LONGHORN ARMY AMMUNITION PLANT KARNACK, TEXAS

ADMINISTRATIVE RECORD

Volume 17

2025

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Prepared for

Department of the Army
Longhorn Army Ammunition Plant

1976–2025

LONGHORN ARMY AMMUNITION PLANT
KARNACK, TEXAS
ADMINISTRATIVE RECORD – CHRONOLOGICAL INDEX

VOLUME 17

2025

A.	Title:	(Cont'd) Report – Level IV DoD File No. 1 to Final Fourth Annual Remedial Action Operation Report, LHAAP-16 Landfill, Longhorn Army Ammunition Plant (LHAAP), Karnack, Texas, March 2025
	Author(s):	Department of the Army
	Recipient:	Environmental Protection Agency and Texas Commission on Environmental Quality
	Date:	March 19, 2025
	Bate Stamp:	01319358–01321355

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HS23070546 LHAAP 16 January 2023 Cover Page

ALS WO# HS23070546

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Form 1 - Sample Results

Form 3A - MS/MSD

Form 4 - MB Assoc

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Run Log

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Case Narrative

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Anions By Method 300.0□Raw Data

HS23070546 E2300640-IV

CoverLetter

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right solutions.
right partner.

WorkOrder: HS23070546

LHAAP 16 January 2023

Aptim Environmental & Infrastucture, Inc.

Vicki Graves
10333 Richmond Ave Ste 1030
Houston TX 77042

27-Jul-2023

HS23070546 LHAAP 16 January 2023 Final

ALS WO# HS23070546

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July 28, 2023

Vicki Graves
Aptim Environmental & Infrastucture, Inc.
10333 Richmond Ave
Ste 1030
Houston, TX 77042

Work Order: **HS23070546**

Laboratory Results for: **LHAAP 16 January 2023**

Dear Vicki Graves ,

ALS Environmental received 9 sample(s) on Jul 12, 2023 for the analysis presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

Generated By: JUMOKE.LAWAL
James Guin

ALS Houston, US Date: 28-Jul-23

Client: Aptim Environmental & Infrastucture, Inc.
Project: LHAAP 16 January 2023
Work Order: HS23070546

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS23070546-01	16WW58-230711	Groundwater		11-Jul-2023 07:05	12-Jul-2023 10:05	☐
HS23070546-02	16WW57-230711	Groundwater		11-Jul-2023 07:50	12-Jul-2023 10:05	☐
HS23070546-03	16WW16-230711	Groundwater		11-Jul-2023 08:45	12-Jul-2023 10:05	☐
HS23070546-04	16WW34-230711	Groundwater		11-Jul-2023 09:45	12-Jul-2023 10:05	☐
HS23070546-05	16WW33-230711	Groundwater		11-Jul-2023 10:40	12-Jul-2023 10:05	☐
HS23070546-06	16WW32-230711	Groundwater		11-Jul-2023 11:25	12-Jul-2023 10:05	☐
HS23070546-07	16WW31-230711	Groundwater		11-Jul-2023 12:05	12-Jul-2023 10:05	☐
HS23070546-08	16WW56-230711	Groundwater		11-Jul-2023 12:45	12-Jul-2023 10:05	☐
HS23070546-09	Trip Blank - 230711	Water	CG-061323-200	11-Jul-2023 00:00	12-Jul-2023 10:05	☐

ALS Houston, US Date: 28-Jul-23

Client: Aptim Environmental & Infrastucture, Inc. **CASE NARRATIVE**
Project: LHAAP 16 January 2023
Work Order: HS23070546

Work Order Comments

- The analyses for Nitrate and Sulfate were subcontracted to ALS Environmental in Middletown, PA. Final Report attached
- The analysis for CO2 by RSK175 was subcontracted to Eurofins in Lancaster, PA. The final report is appended.
- The analysis for Perchlorate was performed by ALS Houston Specialty Lab. The final report is appended.

GC Semivolatiles by Method RSK-175

Batch ID: R441466

Sample ID: 16WW16-230711 (HS23070546-03MS)

- The recovery of the Matrix Spike (MS) associated to this analyte was outside of the established control limits. However, the LCS was within control limits. The recovery of the MS may be due to sample matrix interference.

Sample ID: 16WW16-230711 (HS23070546-03MSD)

- The recovery of the Matrix Spike Duplicate (MSD) associated to this analyte was outside of the established control limits. However, the LCS was within control limits. The failed recovery of the MSD may be due to sample matrix interference.

GCMS Volatiles by Method SW8260

Batch ID: R441458

Sample ID: 16WW57-230711 (HS23070546-02)

- Lowest practical dilution due to matrix.

Sample ID: 16WW58-230711 (HS23070546-01)

- Lowest practical dilution due to matrix.

Batch ID: R441608

Sample ID: 16WW16-230711 (HS23070546-03MS

- MS and or MSD failed QC limit for some compounds

WetChemistry by Method E415.1

Batch ID: R442439

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

ALS Houston, US Date: 28-Jul-23

Client: Aptim Environmental & Infrastucture, Inc.
Project: LHAAP 16 January 2023
Sample ID: 16WW58-230711
Collection Date: 11-Jul-2023 07:05

ANALYTICAL REPORT
WorkOrder:HS23070546
Lab ID:HS23070546-01
Matrix:Groundwater

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C		**Method:SW8260**						Analyst: PC
1,1,2-Trichloroethane	50	U	15	50	50	ug/L	50	15-Jul-2023 00:37
1,1-Dichloroethene	50	U	10	50	50	ug/L	50	15-Jul-2023 00:37
1,2-Dichloroethane	50	U	10	50	50	ug/L	50	15-Jul-2023 00:37
cis-1,2-Dichloroethene	**140**		**10**	**50**	**50**	**ug/L**	50	15-Jul-2023 00:37
Methylene chloride	50	U	20	50	100	ug/L	50	15-Jul-2023 00:37
Trichloroethene	**3,600**		**10**	**50**	**50**	**ug/L**	50	15-Jul-2023 00:37
Vinyl chloride	50	U	10	50	50	ug/L	50	15-Jul-2023 00:37
Surr: 1,2-Dichloroethane-d4	*101*			**0**	*81-118*	*%REC*	*50*	*15-Jul-2023 00:37*
Surr: 4-Bromofluorobenzene	*95.1*			**0**	*85-114*	*%REC*	*50*	*15-Jul-2023 00:37*
Surr: Dibromofluoromethane	*104*			**0**	*80-119*	*%REC*	*50*	*15-Jul-2023 00:37*
Surr: Toluene-d8	*102*			**0**	*89-112*	*%REC*	*50*	*15-Jul-2023 00:37*
DISSOLVED GASES BY RSK-175		**Method:RSK-175**						Analyst: SAM
Ethane	0.000500	U	0.000144	0.000500	0.00100	mg/L	1	13-Jul-2023 17:42
Ethene	**0.000558**	J	**0.000234**	**0.000500**	**0.00100**	**mg/L**	1	13-Jul-2023 17:42
Methane	**0.00897**		**0.000107**	**0.000500**	**0.000500**	**mg/L**	1	13-Jul-2023 17:42
TOTAL ORGANIC CARBON BY E415.1		**Method:E415.1**						Analyst: DW
Organic Carbon, Total	**9.83**	Ja	**5.00**	**10.0**	**10.0**	**mg/L**	10	26-Jul-2023 18:04
SUBCONTRACT ANALYSIS - ANIONS		**Method:NA**						Analyst: SUB
Subcontract Analysis	See Attached		0	0		NA	1	24-Jul-2023 10:30
SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)		**Method:NA**						Analyst: SUB
Subcontract Analysis	See Attached		0	0		NA	1	26-Jul-2023 12:05
SUBCONTRACT ANALYSIS - RSK		**Method:NA**						Analyst: SUB
Subcontract Analysis	See Attached		0	0		NA	1	19-Jul-2023 16:11

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US Date: 28-Jul-23

Client: Aptim Environmental & Infrastucture, Inc.
Project: LHAAP 16 January 2023
Sample ID: 16WW57-230711
Collection Date: 11-Jul-2023 07:50

ANALYTICAL REPORT
WorkOrder:HS23070546
Lab ID:HS23070546-02
Matrix:Groundwater

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C		**Method:SW8260**						Analyst: PC
1,1,2-Trichloroethane	5.0	U	1.5	5.0	5.0	ug/L	5	15-Jul-2023 00:17
1,1-Dichloroethene	**2.6**	J	**1.0**	**5.0**	**5.0**	**ug/L**	5	15-Jul-2023 00:17
1,2-Dichloroethane	5.0	U	1.0	5.0	5.0	ug/L	5	15-Jul-2023 00:17
cis-1,2-Dichloroethene	**3.0**	J	**1.0**	**5.0**	**5.0**	**ug/L**	5	15-Jul-2023 00:17
Methylene chloride	5.0	U	2.0	5.0	10	ug/L	5	15-Jul-2023 00:17
Trichloroethene	**150**		**1.0**	**5.0**	**5.0**	**ug/L**	5	15-Jul-2023 00:17
Vinyl chloride	5.0	U	1.0	5.0	5.0	ug/L	5	15-Jul-2023 00:17
Surr: 1,2-Dichloroethane-d4	*105*			**0**	*81-118*	*%REC*	*5*	*15-Jul-2023 00:17*
Surr: 4-Bromofluorobenzene	*90.3*			**0**	*85-114*	*%REC*	*5*	*15-Jul-2023 00:17*
Surr: Dibromofluoromethane	*106*			**0**	*80-119*	*%REC*	*5*	*15-Jul-2023 00:17*
Surr: Toluene-d8	*100*			**0**	*89-112*	*%REC*	*5*	*15-Jul-2023 00:17*
DISSOLVED GASES BY RSK-175		**Method:RSK-175**						Analyst: SAM
Ethane	0.000500	U	0.000144	0.000500	0.00100	mg/L	1	13-Jul-2023 17:50
Ethene	0.000500	U	0.000234	0.000500	0.00100	mg/L	1	13-Jul-2023 17:50
Methane	**0.00131**		**0.000107**	**0.000500**	**0.000500**	**mg/L**	1	13-Jul-2023 17:50
TOTAL ORGANIC CARBON BY E415.1		**Method:E415.1**						Analyst: DW
Organic Carbon, Total	**29.4**	a	**5.00**	**10.0**	**10.0**	**mg/L**	10	26-Jul-2023 18:19
SUBCONTRACT ANALYSIS - ANIONS		**Method:NA**						Analyst: SUB
Subcontract Analysis	See Attached		0	0		NA	1	24-Jul-2023 10:30
SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)		**Method:NA**						Analyst: SUB
Subcontract Analysis	See Attached		0	0		NA	1	26-Jul-2023 12:05
SUBCONTRACT ANALYSIS - RSK		**Method:NA**						Analyst: SUB
Subcontract Analysis	See Attached		0	0		NA	1	19-Jul-2023 16:11

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US Date: 28-Jul-23

Client: Aptim Environmental & Infrastucture, Inc.
Project: LHAAP 16 January 2023
Sample ID: 16WW16-230711
Collection Date: 11-Jul-2023 08:45

ANALYTICAL REPORT
WorkOrder:HS23070546
Lab ID:HS23070546-03
Matrix:Groundwater

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C		**Method:SW8260**						Analyst: PC
1,1,2-Trichloroethane	100	U	30	100	100	ug/L	100	18-Jul-2023 00:32
1,1-Dichloroethene	**110**		**20**	**100**	**100**	**ug/L**	100	18-Jul-2023 00:32
1,2-Dichloroethane	**53**	J	**20**	**100**	**100**	**ug/L**	100	18-Jul-2023 00:32
cis-1,2-Dichloroethene	**33,000**		**200**	**1000**	**1000**	**ug/L**	1000	18-Jul-2023 00:53
Methylene chloride	100	U	40	100	200	ug/L	100	18-Jul-2023 00:32
Trichloroethene	**58,000**		**200**	**1000**	**1000**	**ug/L**	1000	18-Jul-2023 00:53
Vinyl chloride	**580**		**20**	**100**	**100**	**ug/L**	100	18-Jul-2023 00:32
Surr: 1,2-Dichloroethane-d4	*106*			**0**	*81-118*	*%REC*	*100*	*18-Jul-2023 00:32*
Surr: 1,2-Dichloroethane-d4	*106*			**0**	*81-118*	*%REC*	*1000*	*18-Jul-2023 00:53*
Surr: 4-Bromofluorobenzene	*94.8*			**0**	*85-114*	*%REC*	*100*	*18-Jul-2023 00:32*
Surr: 4-Bromofluorobenzene	*93.7*			**0**	*85-114*	*%REC*	*1000*	*18-Jul-2023 00:53*
Surr: Dibromofluoromethane	*106*			**0**	*80-119*	*%REC*	*100*	*18-Jul-2023 00:32*
Surr: Dibromofluoromethane	*107*			**0**	*80-119*	*%REC*	*1000*	*18-Jul-2023 00:53*
Surr: Toluene-d8	*103*			**0**	*89-112*	*%REC*	*100*	*18-Jul-2023 00:32*
Surr: Toluene-d8	*104*			**0**	*89-112*	*%REC*	*1000*	*18-Jul-2023 00:53*
DISSOLVED GASES BY RSK-175		**Method:RSK-175**						Analyst: SAM
Ethane	**0.0151**		**0.000144**	**0.000500**	**0.00100**	**mg/L**	1	13-Jul-2023 18:00
Ethene	**0.0159**		**0.000234**	**0.000500**	**0.00100**	**mg/L**	1	13-Jul-2023 18:00
Methane	**1.66**		**0.00535**	**0.0250**	**0.0250**	**mg/L**	50	13-Jul-2023 18:12
TOTAL ORGANIC CARBON BY E415.1		**Method:E415.1**						Analyst: DW
Organic Carbon, Total	**7.59**	Ja	**5.00**	**10.0**	**10.0**	**mg/L**	10	26-Jul-2023 18:34
SUBCONTRACT ANALYSIS - ANIONS		**Method:NA**						Analyst: SUB
Subcontract Analysis	See Attached		0	0		NA	1	24-Jul-2023 10:30
SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)		**Method:NA**						Analyst: SUB
Subcontract Analysis	See Attached		0	0		NA	1	26-Jul-2023 12:05
SUBCONTRACT ANALYSIS - RSK		**Method:NA**						Analyst: SUB
Subcontract Analysis	See Attached		0	0		NA	1	19-Jul-2023 16:11

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US Date: 28-Jul-23

Client: Aptim Environmental & Infrastucture, Inc.
Project: LHAAP 16 January 2023
Sample ID: 16WW34-230711
Collection Date: 11-Jul-2023 09:45

ANALYTICAL REPORT
WorkOrder:HS23070546
Lab ID:HS23070546-04
Matrix:Groundwater

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C		**Method:SW8260**						Analyst: PC
1,1,2-Trichloroethane	1.0	U	0.30	1.0	1.0	ug/L	1	18-Jul-2023 02:56
1,1-Dichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	18-Jul-2023 02:56
1,2-Dichloroethane	1.0	U	0.20	1.0	1.0	ug/L	1	18-Jul-2023 02:56
cis-1,2-Dichloroethene	**4.7**		**0.20**	**1.0**	**1.0**	**ug/L**	1	18-Jul-2023 02:56
Methylene chloride	1.0	U	0.40	1.0	2.0	ug/L	1	18-Jul-2023 02:56
Trichloroethene	**22**		**0.20**	**1.0**	**1.0**	**ug/L**	1	18-Jul-2023 02:56
Vinyl chloride	1.0	U	0.20	1.0	1.0	ug/L	1	18-Jul-2023 02:56
Surr: 1,2-Dichloroethane-d4	*106*			**0**	*81-118*	*%REC*	*1*	*18-Jul-2023 02:56*
Surr: 4-Bromofluorobenzene	*94.2*			**0**	*85-114*	*%REC*	*1*	*18-Jul-2023 02:56*
Surr: Dibromofluoromethane	*108*			**0**	*80-119*	*%REC*	*1*	*18-Jul-2023 02:56*
Surr: Toluene-d8	*104*			**0**	*89-112*	*%REC*	*1*	*18-Jul-2023 02:56*
SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)		**Method:NA**						Analyst: SUB
Subcontract Analysis	See Attached		0	0		NA	1	26-Jul-2023 12:05

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US Date: 28-Jul-23

Client: Aptim Environmental & Infrastucture, Inc.
Project: LHAAP 16 January 2023
Sample ID: 16WW33-230711
Collection Date: 11-Jul-2023 10:40

ANALYTICAL REPORT
WorkOrder:HS23070546
Lab ID:HS23070546-05
Matrix:Groundwater

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C		**Method:SW8260**						Analyst: PC
1,1,2-Trichloroethane	1.0	U	0.30	1.0	1.0	ug/L	1	18-Jul-2023 03:16
1,1-Dichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	18-Jul-2023 03:16
1,2-Dichloroethane	1.0	U	0.20	1.0	1.0	ug/L	1	18-Jul-2023 03:16
cis-1,2-Dichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	18-Jul-2023 03:16
Methylene chloride	1.0	U	0.40	1.0	2.0	ug/L	1	18-Jul-2023 03:16
Trichloroethene	**2.0**		**0.20**	**1.0**	**1.0**	**ug/L**	1	18-Jul-2023 03:16
Vinyl chloride	1.0	U	0.20	1.0	1.0	ug/L	1	18-Jul-2023 03:16
Surr: 1,2-Dichloroethane-d4	*103*			**0**	*81-118*	*%REC*	*1*	*18-Jul-2023 03:16*
Surr: 4-Bromofluorobenzene	*94.3*			**0**	*85-114*	*%REC*	*1*	*18-Jul-2023 03:16*
Surr: Dibromofluoromethane	*105*			**0**	*80-119*	*%REC*	*1*	*18-Jul-2023 03:16*
Surr: Toluene-d8	*106*			**0**	*89-112*	*%REC*	*1*	*18-Jul-2023 03:16*
SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)		**Method:NA**						Analyst: SUB
Subcontract Analysis	See Attached		0	0		NA	1	26-Jul-2023 12:05

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US Date: 28-Jul-23

Client: Aptim Environmental & Infrastucture, Inc.
Project: LHAAP 16 January 2023
Sample ID: 16WW32-230711
Collection Date: 11-Jul-2023 11:25

ANALYTICAL REPORT
WorkOrder:HS23070546
Lab ID:HS23070546-06
Matrix:Groundwater

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C		**Method:SW8260**						Analyst: PC
1,1,2-Trichloroethane	1.0	U	0.30	1.0	1.0	ug/L	1	18-Jul-2023 03:37
1,1-Dichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	18-Jul-2023 03:37
1,2-Dichloroethane	1.0	U	0.20	1.0	1.0	ug/L	1	18-Jul-2023 03:37
cis-1,2-Dichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	18-Jul-2023 03:37
Methylene chloride	1.0	U	0.40	1.0	2.0	ug/L	1	18-Jul-2023 03:37
Trichloroethene	**1.3**		**0.20**	**1.0**	**1.0**	**ug/L**	1	18-Jul-2023 03:37
Vinyl chloride	1.0	U	0.20	1.0	1.0	ug/L	1	18-Jul-2023 03:37
Surr: 1,2-Dichloroethane-d4	*102*			**0**	*81-118*	*%REC*	*1*	*18-Jul-2023 03:37*
Surr: 4-Bromofluorobenzene	*95.8*			**0**	*85-114*	*%REC*	*1*	*18-Jul-2023 03:37*
Surr: Dibromofluoromethane	*102*			**0**	*80-119*	*%REC*	*1*	*18-Jul-2023 03:37*
Surr: Toluene-d8	*103*			**0**	*89-112*	*%REC*	*1*	*18-Jul-2023 03:37*
SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)		**Method:NA**						Analyst: SUB
Subcontract Analysis	See Attached		0	0		NA	1	26-Jul-2023 12:05

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US Date: 28-Jul-23

Client: Aptim Environmental & Infrastucture, Inc.
Project: LHAAP 16 January 2023
Sample ID: 16WW31-230711
Collection Date: 11-Jul-2023 12:05

ANALYTICAL REPORT
WorkOrder:HS23070546
Lab ID:HS23070546-07
Matrix:Groundwater

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C		**Method:SW8260**						Analyst: PC
1,1,2-Trichloroethane	1.0	U	0.30	1.0	1.0	ug/L	1	18-Jul-2023 03:57
1,1-Dichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	18-Jul-2023 03:57
1,2-Dichloroethane	1.0	U	0.20	1.0	1.0	ug/L	1	18-Jul-2023 03:57
cis-1,2-Dichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	18-Jul-2023 03:57
Methylene chloride	1.0	U	0.40	1.0	2.0	ug/L	1	18-Jul-2023 03:57
Trichloroethene	**0.88**	J	**0.20**	**1.0**	**1.0**	**ug/L**	1	18-Jul-2023 03:57
Vinyl chloride	1.0	U	0.20	1.0	1.0	ug/L	1	18-Jul-2023 03:57
Surr: 1,2-Dichloroethane-d4	*110*			**0**	*81-118*	*%REC*	*1*	*18-Jul-2023 03:57*
Surr: 4-Bromofluorobenzene	*96.1*			**0**	*85-114*	*%REC*	*1*	*18-Jul-2023 03:57*
Surr: Dibromofluoromethane	*108*			**0**	*80-119*	*%REC*	*1*	*18-Jul-2023 03:57*
Surr: Toluene-d8	*102*			**0**	*89-112*	*%REC*	*1*	*18-Jul-2023 03:57*
SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)		**Method:NA**						Analyst: SUB
Subcontract Analysis	See Attached		0	0		NA	1	26-Jul-2023 12:05

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US Date: 28-Jul-23

Client: Aptim Environmental & Infrastucture, Inc.
Project: LHAAP 16 January 2023
Sample ID: 16WW56-230711
Collection Date: 11-Jul-2023 12:45

ANALYTICAL REPORT
WorkOrder:HS23070546
Lab ID:HS23070546-08
Matrix:Groundwater

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C		**Method:SW8260**						Analyst: PC
1,1,2-Trichloroethane	1.0	U	0.30	1.0	1.0	ug/L	1	18-Jul-2023 04:18
1,1-Dichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	18-Jul-2023 04:18
1,2-Dichloroethane	1.0	U	0.20	1.0	1.0	ug/L	1	18-Jul-2023 04:18
cis-1,2-Dichloroethene	**2.4**		**0.20**	**1.0**	**1.0**	**ug/L**	1	18-Jul-2023 04:18
Methylene chloride	1.0	U	0.40	1.0	2.0	ug/L	1	18-Jul-2023 04:18
Trichloroethene	**19**		**0.20**	**1.0**	**1.0**	**ug/L**	1	18-Jul-2023 04:18
Vinyl chloride	1.0	U	0.20	1.0	1.0	ug/L	1	18-Jul-2023 04:18
Surr: 1,2-Dichloroethane-d4	*103*			**0**	*81-118*	*%REC*	*1*	*18-Jul-2023 04:18*
Surr: 4-Bromofluorobenzene	*88.9*			**0**	*85-114*	*%REC*	*1*	*18-Jul-2023 04:18*
Surr: Dibromofluoromethane	*105*			**0**	*80-119*	*%REC*	*1*	*18-Jul-2023 04:18*
Surr: Toluene-d8	*102*			**0**	*89-112*	*%REC*	*1*	*18-Jul-2023 04:18*
SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)		**Method:NA**						Analyst: SUB
Subcontract Analysis	See Attached		0	0		NA	1	26-Jul-2023 12:05

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US Date: 28-Jul-23

Client: Aptim Environmental & Infrastucture, Inc.
Project: LHAAP 16 January 2023
Sample ID: Trip Blank - 230711
Collection Date: 11-Jul-2023 00:00

ANALYTICAL REPORT
WorkOrder:HS23070546
Lab ID:HS23070546-09
Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C		**Method:SW8260**						Analyst: PC
1,1,2-Trichloroethane	1.0	U	0.30	1.0	1.0	ug/L	1	18-Jul-2023 00:12
1,1-Dichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	18-Jul-2023 00:12
1,2-Dichloroethane	1.0	U	0.20	1.0	1.0	ug/L	1	18-Jul-2023 00:12
cis-1,2-Dichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	18-Jul-2023 00:12
Methylene chloride	1.0	U	0.40	1.0	2.0	ug/L	1	18-Jul-2023 00:12
Trichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	18-Jul-2023 00:12
Vinyl chloride	1.0	U	0.20	1.0	1.0	ug/L	1	18-Jul-2023 00:12
Surr: 1,2-Dichloroethane-d4	*103*			**0**	*81-118*	*%REC*	*1*	*18-Jul-2023 00:12*
Surr: 4-Bromofluorobenzene	*91.8*			**0**	*85-114*	*%REC*	*1*	*18-Jul-2023 00:12*
Surr: Dibromofluoromethane	*109*			**0**	*80-119*	*%REC*	*1*	*18-Jul-2023 00:12*
Surr: Toluene-d8	*101*			**0**	*89-112*	*%REC*	*1*	*18-Jul-2023 00:12*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US Date: 28-Jul-23

Client: Aptim Environmental & Infrastucture, Inc.
Project: LHAAP 16 January 2023
WorkOrder: HS23070546

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: R441458 (0)	**Test Name :** VOLATILES ORGANICS BY METHOD 8260C				**Matrix:** Groundwater	
HS23070546-01	16WW58-230711	11 Jul 2023 07:05			15 Jul 2023 00:37	50
HS23070546-02	16WW57-230711	11 Jul 2023 07:50			15 Jul 2023 00:17	5
Batch ID: R441466 (1)	**Test Name :** DISSOLVED GASES BY RSK-175				**Matrix:** Groundwater	
HS23070546-01	16WW58-230711	11 Jul 2023 07:05			13 Jul 2023 17:42	1
HS23070546-02	16WW57-230711	11 Jul 2023 07:50			13 Jul 2023 17:50	1
HS23070546-03	16WW16-230711	11 Jul 2023 08:45			13 Jul 2023 18:12	50
HS23070546-03	16WW16-230711	11 Jul 2023 08:45			13 Jul 2023 18:00	1
Batch ID: R441608 (0)	**Test Name :** VOLATILES ORGANICS BY METHOD 8260C				**Matrix:** Water	
HS23070546-09	Trip Blank - 230711	11 Jul 2023 00:00			18 Jul 2023 00:12	1
Batch ID: R441608 (0)	**Test Name :** VOLATILES ORGANICS BY METHOD 8260C				**Matrix:** Groundwater	
HS23070546-03	16WW16-230711	11 Jul 2023 08:45			18 Jul 2023 00:53	1000
HS23070546-03	16WW16-230711	11 Jul 2023 08:45			18 Jul 2023 00:32	100
HS23070546-04	16WW34-230711	11 Jul 2023 09:45			18 Jul 2023 02:56	1
HS23070546-05	16WW33-230711	11 Jul 2023 10:40			18 Jul 2023 03:16	1
HS23070546-06	16WW32-230711	11 Jul 2023 11:25			18 Jul 2023 03:37	1
HS23070546-07	16WW31-230711	11 Jul 2023 12:05			18 Jul 2023 03:57	1
HS23070546-08	16WW56-230711	11 Jul 2023 12:45			18 Jul 2023 04:18	1
Batch ID: R441763 (0)	**Test Name :** SUBCONTRACT ANALYSIS - RSK				**Matrix:** Groundwater	
HS23070546-01	16WW58-230711	11 Jul 2023 07:05			19 Jul 2023 16:11	1
HS23070546-02	16WW57-230711	11 Jul 2023 07:50			19 Jul 2023 16:11	1
HS23070546-03	16WW16-230711	11 Jul 2023 08:45			19 Jul 2023 16:11	1
Batch ID: R442061 (0)	**Test Name :** SUBCONTRACT ANALYSIS - ANIONS				**Matrix:** Groundwater	
HS23070546-01	16WW58-230711	11 Jul 2023 07:05			24 Jul 2023 10:30	1
HS23070546-02	16WW57-230711	11 Jul 2023 07:50			24 Jul 2023 10:30	1
HS23070546-03	16WW16-230711	11 Jul 2023 08:45			24 Jul 2023 10:30	1
Batch ID: R442357 (0)	**Test Name :** SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)				**Matrix:** Groundwater	
HS23070546-01	16WW58-230711	11 Jul 2023 07:05			26 Jul 2023 12:05	1
HS23070546-02	16WW57-230711	11 Jul 2023 07:50			26 Jul 2023 12:05	1
HS23070546-03	16WW16-230711	11 Jul 2023 08:45			26 Jul 2023 12:05	1
HS23070546-04	16WW34-230711	11 Jul 2023 09:45			26 Jul 2023 12:05	1
HS23070546-05	16WW33-230711	11 Jul 2023 10:40			26 Jul 2023 12:05	1
HS23070546-06	16WW32-230711	11 Jul 2023 11:25			26 Jul 2023 12:05	1
HS23070546-07	16WW31-230711	11 Jul 2023 12:05			26 Jul 2023 12:05	1
HS23070546-08	16WW56-230711	11 Jul 2023 12:45			26 Jul 2023 12:05	1

ALS Houston, US Date: 28-Jul-23

Client: Aptim Environmental & Infrastucture, Inc.
Project: LHAAP 16 January 2023
WorkOrder: HS23070546

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: R442439 (0)	**Test Name :** TOTAL ORGANIC CARBON BY E415.1				**Matrix:** Groundwater	
HS23070546-01	16WW58-230711	11 Jul 2023 07:05			26 Jul 2023 18:04	10
HS23070546-02	16WW57-230711	11 Jul 2023 07:50			26 Jul 2023 18:19	10
HS23070546-03	16WW16-230711	11 Jul 2023 08:45			26 Jul 2023 18:34	10

ALS Houston, US Date: 28-Jul-23

Client: Aptim Environmental & Infrastucture, Inc.
Project: LHAAP 16 January 2023
WorkOrder: HS23070546

QC BATCH REPORT

Batch ID: R441466 (1) **Instrument:** FID-4 **Method:** DISSOLVED GASES BY RSK-175

MBLK Sample ID: **MBLK-230713** Units: **mg/L** Analysis Date: **13-Jul-2023 16:16**
Client ID: Run ID: **FID-4_441466** SeqNo: **7430975** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Ethane	0.000500	0.00100								U
Ethene	0.000500	0.00100								U
Methane	0.000500	0.000500								U

LCS Sample ID: **LCS-230713** Units: **mg/L** Analysis Date: **13-Jul-2023 16:33**
Client ID: Run ID: **FID-4_441466** SeqNo: **7430976** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Ethane	0.0188	0.00100	0.01804	0	104	75 - 125				
Ethene	0.0154	0.00100	0.0168	0	91.9	75 - 125				
Methane	0.00874	0.000500	0.009647	0	90.6	75 - 125				

LCSD Sample ID: **LCSD-230713** Units: **mg/L** Analysis Date: **13-Jul-2023 16:41**
Client ID: Run ID: **FID-4_441466** SeqNo: **7430977** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Ethane	0.0181	0.00100	0.01804	0	100	75 - 125	0.01875	3.52	30	
Ethene	0.0152	0.00100	0.0168	0	90.2	75 - 125	0.01544	1.82	30	
Methane	0.00877	0.000500	0.009647	0	90.9	75 - 125	0.008744	0.269	30	

MS Sample ID: **HS23070546-03MS** Units: **mg/L** Analysis Date: **13-Jul-2023 16:59**
Client ID: **16WW16-230711** Run ID: **FID-4_441466** SeqNo: **7430979** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Ethane	0.0284	0.00100	0.01804	0.01513	73.5	75 - 125				S
Ethene	0.0303	0.00100	0.0168	0.01585	85.7	75 - 125				
Methane	1.73	0.000500	0.009647	1.657	783	75 - 125				SEO

ALS Houston, US Date: 28-Jul-23

Client: Aptim Environmental & Infrastucture, Inc.
Project: LHAAP 16 January 2023
WorkOrder: HS23070546

QC BATCH REPORT

Batch ID: R441466 (1) **Instrument:** FID-4 **Method:** DISSOLVED GASES BY RSK-175

MSD Sample ID: **HS23070546-03MSD** Units: **mg/L** Analysis Date: **13-Jul-2023 17:25**
Client ID: **16WW16-230711** Run ID: **FID-4_441466** SeqNo: **7430981** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Ethane	0.0258	0.00100	0.01804	0.01513	59.4	75 - 125	0.02840	9.39	30	S
Ethene	0.0308	0.00100	0.0168	0.01585	89.2	75 - 125	0.03026	1.89	30	
Methane	1.73	0.000500	0.009647	1.657	736	75 - 125	1.732	0.262	30	SEO

The following samples were analyzed in this batch: HS23070546-01 HS23070546-02 HS23070546-03

ALS Houston, US Date: 28-Jul-23

Client: Aptim Environmental & Infrastucture, Inc.
Project: LHAAP 16 January 2023
WorkOrder: HS23070546

QC BATCH REPORT

Batch ID: R441458 (0) **Instrument: VOA6** **Method: VOLATILES ORGANICS BY METHOD 8260C**

MBLK Sample ID: **VBLKW-230714** Units: **ug/L** Analysis Date: **14-Jul-2023 19:10**
Client ID: Run ID: **VOA6_441458** SeqNo: **7430561** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,2-Trichloroethane	1.0	1.0								U
1,1-Dichloroethene	1.0	1.0								U
1,2-Dichloroethane	1.0	1.0								U
cis-1,2-Dichloroethene	1.0	1.0								U
Methylene chloride	1.0	2.0								U
Trichloroethene	1.0	1.0								U
Vinyl chloride	1.0	1.0								U
Surr: 1,2-Dichloroethane-d4	*51.92*	*1.0*	*50*	*0*	*104*	*81 - 118*				
Surr: 4-Bromofluorobenzene	*45.83*	*1.0*	*50*	*0*	*91.7*	*85 - 114*				
Surr: Dibromofluoromethane	*51.38*	*1.0*	*50*	*0*	*103*	*80 - 119*				
Surr: Toluene-d8	*50.91*	*1.0*	*50*	*0*	*102*	*89 - 112*				

LCS Sample ID: **VLCSW-230714** Units: **ug/L** Analysis Date: **14-Jul-2023 18:29**
Client ID: Run ID: **VOA6_441458** SeqNo: **7430560** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,2-Trichloroethane	20.26	1.0	20	0	101	80 - 119				
1,1-Dichloroethene	19.86	1.0	20	0	99.3	71 - 131				
1,2-Dichloroethane	20.68	1.0	20	0	103	73 - 128				
cis-1,2-Dichloroethene	20.26	1.0	20	0	101	78 - 123				
Methylene chloride	21.1	2.0	20	0	105	74 - 124				
Trichloroethene	20.01	1.0	20	0	100	79 - 123				
Vinyl chloride	19.72	1.0	20	0	98.6	58 - 137				
Surr: 1,2-Dichloroethane-d4	*52.91*	*1.0*	*50*	*0*	*106*	*81 - 118*				
Surr: 4-Bromofluorobenzene	*50.67*	*1.0*	*50*	*0*	*101*	*85 - 114*				
Surr: Dibromofluoromethane	*53.75*	*1.0*	*50*	*0*	*107*	*80 - 119*				
Surr: Toluene-d8	*46.79*	*1.0*	*50*	*0*	*93.6*	*89 - 112*				

ALS Houston, US Date: 28-Jul-23

Client: Aptim Environmental & Infrastucture, Inc.
Project: LHAAP 16 January 2023
WorkOrder: HS23070546

QC BATCH REPORT

Batch ID: R441458 (0) **Instrument:** VOA6 **Method:** VOLATILES ORGANICS BY METHOD 8260C

MS Sample ID: **HS23070451-04MS** Units: **ug/L** Analysis Date: **14-Jul-2023 22:14**
Client ID: Run ID: **VOA6_441458** SeqNo: **7430566** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,2-Trichloroethane	22.17	1.0	20	0	111	80 - 119				
1,1-Dichloroethene	21.32	1.0	20	0	107	71 - 131				
1,2-Dichloroethane	22.21	1.0	20	0	111	73 - 128				
cis-1,2-Dichloroethene	21.66	1.0	20	1.043	103	78 - 123				
Methylene chloride	21.38	2.0	20	0	107	74 - 124				
Trichloroethene	23.96	1.0	20	1.757	111	79 - 123				
Vinyl chloride	20.25	1.0	20	0	101	58 - 137				
Surr: 1,2-Dichloroethane-d4	*53.09*	*1.0*	*50*	*0*	*106*	*81 - 118*				
Surr: 4-Bromofluorobenzene	*48.44*	*1.0*	*50*	*0*	*96.9*	*85 - 114*				
Surr: Dibromofluoromethane	*52.53*	*1.0*	*50*	*0*	*105*	*80 - 119*				
Surr: Toluene-d8	*51.26*	*1.0*	*50*	*0*	*103*	*89 - 112*				

MSD Sample ID: **HS23070451-04MSD** Units: **ug/L** Analysis Date: **14-Jul-2023 22:34**
Client ID: Run ID: **VOA6_441458** SeqNo: **7430567** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,2-Trichloroethane	23.33	1.0	20	0	117	80 - 119	22.17	5.1	20	
1,1-Dichloroethene	21.69	1.0	20	0	108	71 - 131	21.32	1.73	20	
1,2-Dichloroethane	22.06	1.0	20	0	110	73 - 128	22.21	0.687	20	
cis-1,2-Dichloroethene	22.03	1.0	20	1.043	105	78 - 123	21.66	1.7	20	
Methylene chloride	21.28	2.0	20	0	106	74 - 124	21.38	0.448	20	
Trichloroethene	23.91	1.0	20	1.757	111	79 - 123	23.96	0.227	20	
Vinyl chloride	20.81	1.0	20	0	104	58 - 137	20.25	2.74	20	
Surr: 1,2-Dichloroethane-d4	*53.61*	*1.0*	*50*	*0*	*107*	*81 - 118*	*53.09*	*0.976*	*20*	
Surr: 4-Bromofluorobenzene	*48.71*	*1.0*	*50*	*0*	*97.4*	*85 - 114*	*48.44*	*0.539*	*20*	
Surr: Dibromofluoromethane	*53.95*	*1.0*	*50*	*0*	*108*	*80 - 119*	*52.53*	*2.66*	*20*	
Surr: Toluene-d8	*51.24*	*1.0*	*50*	*0*	*102*	*89 - 112*	*51.26*	*0.0393*	*20*	

The following samples were analyzed in this batch: HS23070546-01 HS23070546-02

ALS Houston, US Date: 28-Jul-23

Client: Aptim Environmental & Infrastucture, Inc.
Project: LHAAP 16 January 2023
WorkOrder: HS23070546

QC BATCH REPORT

Batch ID: R441608 (0) **Instrument: VOA6** **Method: VOLATILES ORGANICS BY METHOD 8260C**

MBLK Sample ID: **VBLKW-230717** Units: **ug/L** Analysis Date: **17-Jul-2023 23:51**
Client ID: Run ID: **VOA6_441608** SeqNo: **7434446** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,2-Trichloroethane	1.0	1.0								U
1,1-Dichloroethene	1.0	1.0								U
1,2-Dichloroethane	1.0	1.0								U
cis-1,2-Dichloroethene	1.0	1.0								U
Methylene chloride	1.0	2.0								U
Trichloroethene	1.0	1.0								U
Vinyl chloride	1.0	1.0								U
Surr: 1,2-Dichloroethane-d4	*50.08*	*1.0*	*50*	*0*	*100*	*81 - 118*				
Surr: 4-Bromofluorobenzene	*47.28*	*1.0*	*50*	*0*	*94.6*	*85 - 114*				
Surr: Dibromofluoromethane	*52.92*	*1.0*	*50*	*0*	*106*	*80 - 119*				
Surr: Toluene-d8	*51.22*	*1.0*	*50*	*0*	*102*	*89 - 112*				

LCS Sample ID: **VLCSW-230717** Units: **ug/L** Analysis Date: **17-Jul-2023 23:10**
Client ID: Run ID: **VOA6_441608** SeqNo: **7434445** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,2-Trichloroethane	19.69	1.0	20	0	98.4	80 - 119				
1,1-Dichloroethene	22.44	1.0	20	0	112	71 - 131				
1,2-Dichloroethane	19.27	1.0	20	0	96.4	73 - 128				
cis-1,2-Dichloroethene	20.58	1.0	20	0	103	78 - 123				
Methylene chloride	23.46	2.0	20	0	117	74 - 124				
Trichloroethene	19.17	1.0	20	0	95.8	79 - 123				
Vinyl chloride	23.33	1.0	20	0	117	58 - 137				
Surr: 1,2-Dichloroethane-d4	*52.94*	*1.0*	*50*	*0*	*106*	*81 - 118*				
Surr: 4-Bromofluorobenzene	*51.07*	*1.0*	*50*	*0*	*102*	*85 - 114*				
Surr: Dibromofluoromethane	*54.12*	*1.0*	*50*	*0*	*108*	*80 - 119*				
Surr: Toluene-d8	*46.75*	*1.0*	*50*	*0*	*93.5*	*89 - 112*				

ALS Houston, US Date: 28-Jul-23

Client: Aptim Environmental & Infrastucture, Inc.
Project: LHAAP 16 January 2023
WorkOrder: HS23070546

QC BATCH REPORT

Batch ID: R441608 (0) **Instrument:** VOA6 **Method:** VOLATILES ORGANICS BY METHOD 8260C

MS Sample ID: **HS23070546-03MS** Units: **ug/L** Analysis Date: **18-Jul-2023 01:34**
Client ID: **16WW16-230711** Run ID: **VOA6_441608** SeqNo: **7434451** PrepDate: DF: **1000**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,2-Trichloroethane	23120	1000	20000	0	116	80 - 119				
1,1-Dichloroethene	25230	1000	20000	0	126	71 - 131				
1,2-Dichloroethane	21590	1000	20000	0	108	73 - 128				
cis-1,2-Dichloroethene	65000	1000	20000	33480	158	78 - 123				S
Methylene chloride	24290	2000	20000	0	121	74 - 124				
Trichloroethene	89320	1000	20000	58100	156	79 - 123				S
Vinyl chloride	26810	1000	20000	920.1	129	58 - 137				
Surr: 1,2-Dichloroethane-d4	*53320*	*1000*	*50000*	*0*	*107*	*81 - 118*				
Surr: 4-Bromofluorobenzene	*47810*	*1000*	*50000*	*0*	*95.6*	*85 - 114*				
Surr: Dibromofluoromethane	*54610*	*1000*	*50000*	*0*	*109*	*80 - 119*				
Surr: Toluene-d8	*50950*	*1000*	*50000*	*0*	*102*	*89 - 112*				

MSD Sample ID: **HS23070546-03MSD** Units: **ug/L** Analysis Date: **18-Jul-2023 01:54**
Client ID: **16WW16-230711** Run ID: **VOA6_441608** SeqNo: **7434452** PrepDate: DF: **1000**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,2-Trichloroethane	23870	1000	20000	0	119	80 - 119	23120	3.19	20	S
1,1-Dichloroethene	25520	1000	20000	0	128	71 - 131	25230	1.11	20	
1,2-Dichloroethane	21210	1000	20000	0	106	73 - 128	21590	1.78	20	
cis-1,2-Dichloroethene	59960	1000	20000	33480	132	78 - 123	65000	8.06	20	S
Methylene chloride	24320	2000	20000	0	122	74 - 124	24290	0.104	20	
Trichloroethene	84160	1000	20000	58100	130	79 - 123	89320	5.95	20	S
Vinyl chloride	24930	1000	20000	920.1	120	58 - 137	26810	7.25	20	
Surr: 1,2-Dichloroethane-d4	*52660*	*1000*	*50000*	*0*	*105*	*81 - 118*	*53320*	*1.24*	*20*	
Surr: 4-Bromofluorobenzene	*48880*	*1000*	*50000*	*0*	*97.8*	*85 - 114*	*47810*	*2.21*	*20*	
Surr: Dibromofluoromethane	*54150*	*1000*	*50000*	*0*	*108*	*80 - 119*	*54610*	*0.846*	*20*	
Surr: Toluene-d8	*52270*	*1000*	*50000*	*0*	*105*	*89 - 112*	*50950*	*2.56*	*20*	

The following samples were analyzed in this batch:

HS23070546-03	HS23070546-04	HS23070546-05	HS23070546-06
HS23070546-07	HS23070546-08	HS23070546-09	

ALS Houston, US Date: 28-Jul-23

Client: Aptim Environmental & Infrastucture, Inc.
Project: LHAAP 16 January 2023
WorkOrder: HS23070546

QC BATCH REPORT

Batch ID: R442439 (0) **Instrument: TOC_05** **Method: TOTAL ORGANIC CARBON BY E415.1**

MBLK Sample ID: **MBLK-07262023** Units: **mg/L** Analysis Date: **26-Jul-2023 17:17**
Client ID: Run ID: **TOC_05_442439** SeqNo: **7454148** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Organic Carbon, Total	1.00	1.00								U

LCS Sample ID: **LCS-07262023** Units: **mg/L** Analysis Date: **26-Jul-2023 17:33**
Client ID: Run ID: **TOC_05_442439** SeqNo: **7454149** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Organic Carbon, Total	9.626	1.00	10	0	96.3	85 - 115				

LCSD Sample ID: **LCSD-07262023** Units: **mg/L** Analysis Date: **26-Jul-2023 17:49**
Client ID: Run ID: **TOC_05_442439** SeqNo: **7454150** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Organic Carbon, Total	9.663	1.00	10	0	96.6	85 - 115	9.626	0.384	20	

MS Sample ID: **HS23070546-03MS** Units: **mg/L** Analysis Date: **26-Jul-2023 18:50**
Client ID: **16WW16-230711** Run ID: **TOC_05_442439** SeqNo: **7454154** PrepDate: DF: **10**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Organic Carbon, Total	104.3	10.0	100	7.587	96.7	80 - 120				

The following samples were analyzed in this batch: HS23070546-01 HS23070546-02 HS23070546-03

ALS Houston, US Date: 28-Jul-23

Client: Aptim Environmental & Infrastucture, Inc.
Project: LHAAP 16 January 2023
WorkOrder: **HS23070546**

QUALIFIERS, ACRONYMS, UNITS

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
M	Manually integrated, see raw data for justification
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL/SDL

Acronym	Description
DCS	Detectability Check Study
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitaion Limit
SD	Serial Dilution
SDL	Sample Detection Limit
TRRP	Texas Risk Reduction Program

Unit Reported	Description
mg/L	Milligrams per Liter

CERTIFICATIONS,ACCREDITATIONS & LICENSES

Agency	Number	Expire Date
Arkansas	88-00356	27-Mar-2024
California	2919; 2024	30-Apr-2024
Dept of Defense	L23-358	31-May-2025
Florida	E87611-38	30-Jun-2024
Illinois	2000322023-11	30-Jun-2024
Kansas	E-10352; 2022-2023	31-Jul-2023
Louisiana	03087-2023	30-Jun-2024
Maryland	343; 2023-2024	30-Jun-2024
North Carolina	624-2023	31-Dec-2023
North Dakota	R-193 2023-2024	30-Apr-2024
Oklahoma	2022-141	31-Aug-2023
Texas	T104704231-23-31	30-Apr-2024
Utah	TX026932023-14	31-Jul-2024

ALS Houston, US Date: 28-Jul-23

Sample Receipt Checklist

Work Order ID: HS23070546 **Date/Time Received:** 12-Jul-2023 10:05

Client Name: CBI-Houston **Received by:** Paresh M. Giga

Completed By:	/S/ Paresh M. Giga	14-Jul-2023 11:31	**Reviewed by:**	/S/ Nieka.Carson	14-Jul-2023 11:51
	eSignature	Date/Time		eSignature	Date/Time

Matrices: **GW/Water** Carrier name: **FedEx Priority Overnight**

Shipping container/cooler in good condition?	Yes	☑	No	☐	Not Present	☐
Custody seals intact on shipping container/cooler?	Yes	☑	No	☐	Not Present	☐
Custody seals intact on sample bottles?	Yes	☐	No	☐	Not Present	☑
VOA/TX1005/TX1006 Solids in hermetically sealed vials?	Yes	☐	No	☐	Not Present	☑
Chain of custody present?	Yes	☑	No	☐	1 Page(s)	
Chain of custody signed when relinquished and received?	Yes	☑	No	☐	COC IDs:none	
Samplers name present on COC?	Yes	☑	No	☐		
Chain of custody agrees with sample labels?	Yes	☑	No	☐		
Samples in proper container/bottle?	Yes	☑	No	☐		
Sample containers intact?	Yes	☑	No	☐		
Sufficient sample volume for indicated test?	Yes	☑	No	☐		
All samples received within holding time?	Yes	☑	No	☐		
Container/Temp Blank temperature in compliance?	Yes	☑	No	☐		

Temperature(s)/Thermometer(s):	1.9C/1.8C U/c				IR31	
Cooler(s)/Kit(s):	51004					
Date/Time sample(s) sent to storage:	7/12/23 14:30					
Water - VOA vials have zero headspace?	Yes	☑	No	☐	No VOA vials submitted	☐
Water - pH acceptable upon receipt?	Yes	☐	No	☐	N/A	☑
pH adjusted?	Yes	☐	No	☐	N/A	☑
pH adjusted by:						

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

Corrective Action:

bhate

Page: ____ of ____

Project/Phase

No: JVPCIBH.0001

COC Number(1):

LIMS Number:

1608 13th Avenue South, Suite 300
Birmingham Alabama 35205

Chain of Custody and Analytical Request

Facility/Base I.D.: LHAAP

Project/Site Name: LHAAP / Site 16

Client Name:

Collected by: Scott Beesinger

Field Sample ID (30 Characters Max)	Date Collected (dd-mmm-yyyy)	Time Collected (Military) (hhmm)	Sample Depth (beginning - ending)	SA Code (2)	Sample Number (3)	Sample Matrix (4)	Number of containers	VOC	Dissolved Gases	TOC	Carbon Dioxide	Anions	Perchlorate	Ambient Blank Lot Control Number	Equipment Blank Lot Control Number	Trip Blank Lot Control Number	Cooler ID
16WW58-230711	11 Jul 2023	0705	-	N		WG	13	X	X	X	X	X	X				
16WW57-230711	11 Jul 2023	0750	-	N		WG	13	X	X	X	X	X	X				
16WW16-230711	11 Jul 2023	0845	-	N		WG	13	X	X	X	X	X	X				
16WW16-230711-MS	11 Jul 2023	0845		MS		WG	13	X	X	X	X	X	X				
16WW16-230711-MSD	11 Jul 2023	0845		SD		WG	13	X	X	X	X	X	X				
16WW34-230711	11 Jul 2023	0945	-	N		WG	4	X					X				
16WW33-230711	11 Jul 2023	1040	-	N		WG	4	X					X				
16WW32-230711	11 Jul 2023	1125	-	N		WG	4	X					X				
16WW31-230711	11 Jul 2023	1205	-	N		WG	4	X					X				
16WW56-230711	11 Jul 2023	1245	-	N		WG	4	X					X				
TRIP BLANK-230711	11 Jul 2023		-	TB		W	2	X									

Sample Analysis Requested (5) | Quality Assurance Samples (6)

HS23070546

Aptim Environmental & Infrastucture, Inc.
LHAAP / SITE 16

COMMENTS: STANDARD TAT

Custody Transfers Prior to Receipt by Laboratory

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1. Scott Beesinger	7/11/23	1330	1.	7/12/23	1000
2.			2.		
3.			3.		

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab: ____ Shipped No.:

Method of Shipment: ____

Fed Ex ____ Airbill Number:

Analytical Lab: ALS 10450 Stancliff Rd. Suite 210 Houston, TX 77099 (281) 530-5656

ATTN: Dane Wacasey Lab Recipient: Delivery Date/Time:

1.) Chain of Custody Number = date collected + custody number (e.g. 09-02-1999-01)

2.) Sample Type (SA) Codes: N = Normal Sample, TB = Trip Blank (-c) Sample, FD = Field Duplicate (-a) Samples, FR = Field Replicate (-b) Samples, EB = Equipment Blank (-d) Samples, MS = Matrix Spike, SD = Matrix Spike Duplicate, AB = Ambient Blank (-e)

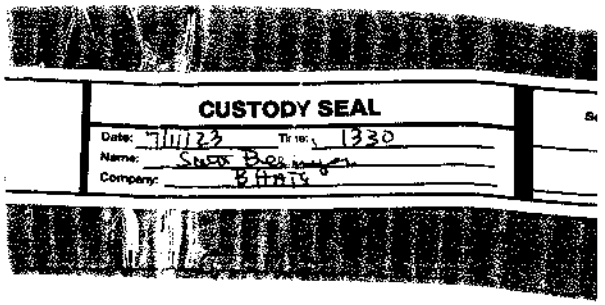
3.) Sample Number: Unique sample number collected from a particular location per day. (e.g. Groundwater sample collected from MW-1 on 10/10/99 = 01, if sampled again on 10/10/99 = 02, etc.)

4.) Matrix Codes: GS = Soil Gas, WG = Groundwater, WS = Surface Water, SO = Soil, SE = Sediment, SL = Sludge, SS = Surface Soil Samples, WQ = Aqueous Blank Samples (trip, equipment, ambient, etc), SQ = Soil Blanks

5.) Sample Analysis Requested: Analytical method requested and number of containers provided for each.

6.) Quality assurance samples are assigned by date (ddmmyy) and the sample number associated with the sample (01, 02, etc) (e.g. Equipment blank collected in association with MW-1 on 10/10/99 will be designated 10109901 in the Equipment Blank Lot Control

Slock +Shipping



FedEx.
TRK# 8221 6230 3002 0480

XA SGRA

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PRIORITY OVERNIGHT

77099
TX-US
IAH

301 Fulling Mill Road | Middletown, PA 17057 | Phone: 717-944-5541 | Fax: 717-944-1430 | www.alsglobal.com

NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: PJLA 74618
State Certifications: FL E871113 , WA C999 , MD 128 , VA 460157 , WV DW 9961-C , WV 343

Analytical Results Report For **ALS Environmental-Houston**

Project AHH105|HS23070546
Workorder 3312815
Report ID 258957 on 7/24/2023

Certificate of Analysis

Enclosed are the analytical results for samples received by the laboratory on Jul 13, 2023.

The ALS Environmental laboratory in Middletown, Pennsylvania is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAP.

If you have any questions regarding this certificate of analysis, please contact Sarah Leung (Project Coordinator) at (717) 944-5541.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state requirements. The test results meet requirements of the current NELAP standards or state requirements, where applicable. For a specific list of accredited analytes, refer to the certifications section of the ALS website at www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads.

This laboratory report may not be reproduced, except in full, without the written approval of ALS Global.
ALS Middletown: 301 Fulling Mill Road, Middletown, PA 17057 : 717-944-5541.

Recipient(s):
Dayna Fisher - ALS Environmental-Houston
Jumoke Lawal - ALS Environmental-Houston
James Guin - ALS Environmental-Houston

This page is included as part of the Analytical Report and must be retained as a permanent record thereof.

Sarah Leung

Sarah Leung *(ALS Digital Signature)*
Project Coordinator

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Project AHH105|HS23070546
Workorder 3312815

Sample Summary

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collector	Collection Company
3312815001	16WW58-230711	Water	07/11/2023 07:05	07/13/2023 09:08	CBC	Collected By Client
3312815002	16WW57-230711	Water	07/11/2023 07:50	07/13/2023 09:08	CBC	Collected By Client
3312815003	16WW16-230711	Water	07/11/2023 08:45	07/13/2023 09:08	CBC	Collected By Client

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Reference

Notes

- Samples collected by ALS personnel are done so in accordance with the procedures set forth in the ALS Field Sampling Plan (20 - Field Services Sampling Plan).
- Except as qualified, Clean Water Act sample analyses are consistent with methodology requirements in 40 CFR Part 136, including but not limited to the following EPA Method reference revisions:
  EPA 300.1 Rev. 1.0-1997
  EPA 300.0 Rev. 2.1-1993
  EPA 353.2 Rev. 2.0-1993
  EPA 410.4 Rev. 1.0-1993
  EPA 420.4 Rev. 1.0-1993
  EPA 365.1 Rev. 2.0-1993
  EPA 200.7 Rev. 4.4-1994
  EPA 200.8 Rev. 5.4-1994
  EPA 245.1 Rev. 3.0-1994
- Except as qualified, Safe Drinking Water Act sample analyses are consistent with methodology requirements in 40 CFR Part 141.
- The Chain of Custody document is included as part of this report.
- All Library Search analytes should be regarded as tentative identifications based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.
- Parameters identified as "analyze immediately" require analysis within 15 minutes of collection. Any "analyze immediately" parameters not listed under the header "Field Parameters" are preformed in the laboratory and are therefore analyzed out of hold time.
- Method references listed on this report beginning with the prefix “S” followed by a method number (such as S2310B-97) refer to methods from “Standard Methods for the Examination of Water and Wastewater”.
- For microbiological analyses, the "Prepared" value is the date/time into the incubator and the "Analyzed" value is the date/time out the incubator.
- An Analysis-Prep Method Cross Reference Table is included after Analytical Results & Qualifiers section in this report.
- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.

Standard Acronyms/Flags

J	Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND) above the MDL
N	Indicates presumptive evidence of the presence of a compound
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Practical Quantitation Limit for this Project
ND	Not Detected - indicates that the analyte was Not Detected
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference
LOD	DoD Limit of Detection
LOQ	DoD Limit of Quantitation
DL	DoD Detection Limit
I	Indicates reported value is greater than or equal to the Method Detection Limit (MDL) but less than the Report Detection Limit (RDL)
(S)	Surrogate Compound
NC	Not Calculated
*	Result outside of QC limits
#	Please reference the result in the Results Section for analyte-level flags.

Project AHH105|HS23070546
Workorder 3312815

Project Notations

Sample Notations

Lab ID	Sample ID

Result Notations

Notation Ref.	
1	Analyte was analyzed past the 48 hour holding time.
2	The QC sample type MS for method EPA 300.0 was outside the control limits for the analyte Sulfate. The % Recovery was reported as 41.8 and the control limits were 80 to 120.
3	The QC sample type MSD for method EPA 300.0 was outside the control limits for the analyte Sulfate. The % Recovery was reported as 31.1 and the control limits were 80 to 120.
4	The QC sample type MS for method EPA 300.0 was outside the control limits for the analyte Nitrate-N. The % Recovery was reported as 112 and the control limits were 88 to 111.
5	The QC sample type MSD for method EPA 300.0 was outside the control limits for the analyte Nitrate-N. The % Recovery was reported as 113 and the control limits were 88 to 111.

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Project AHH105|HS23070546
Workorder 3312815

Detected Results Summary

Client Sample ID	16WW58-230711	Collected	07/11/2023 07:05
Lab Sample ID	3312815001	Lab Receipt	07/13/2023 09:08

Compound	Result	Units	LOQ	LOD	DL	Method	Flag
WET CHEMISTRY							
Sulfate	477	mg/L	25.0	10.0	3.9	EPA 300.0	#

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Project AHH105|HS23070546
Workorder 3312815

Detected Results Summary

Client Sample ID	16WW57-230711	Collected	07/11/2023 07:50
Lab Sample ID	3312815002	Lab Receipt	07/13/2023 09:08

Compound	Result	Units	LOQ	LOD	DL	Method	Flag
WET CHEMISTRY							
Sulfate	2740	mg/L	250	100	38.5	EPA 300.0	#

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Project AHH105|HS23070546
Workorder 3312815

Detected Results Summary

Client Sample ID	16WW16-230711	Collected	07/11/2023 08:45
Lab Sample ID	3312815003	Lab Receipt	07/13/2023 09:08

Compound	Result	Units	LOQ	LOD	DL	Method	Flag
WET CHEMISTRY							
Nitrate-N	0.58J	mg/L	2.5	2.0	0.55	EPA 300.0	#
Sulfate	363	mg/L	25.0	10.0	3.9	EPA 300.0	#

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Project AHH105|HS23070546
Workorder 3312815

Results

Client Sample ID	16WW58-230711	Collected	07/11/2023 07:05
Lab Sample ID	3312815001	Lab Receipt	07/13/2023 09:08

WET CHEMISTRY

Compound	Result	Flag	Units	LOQ	LOD	DL	Method	Dilution	Analysis Date/Time	By	Cntr
Nitrate-N	2.0U	U,1	mg/L	2.5	2.0	0.55	EPA 300.0	5	07/14/2023 23:47	J1W	A
Sulfate	477		mg/L	25.0	10.0	3.9	EPA 300.0	5	07/14/2023 23:47	J1W	A

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Project AHH105|HS23070546
Workorder 3312815

Results

Client Sample ID	16WW57-230711	Collected	07/11/2023 07:50
Lab Sample ID	3312815002	Lab Receipt	07/13/2023 09:08

WET CHEMISTRY

Compound	Result	Flag	Units	LOQ	LOD	DL	Method	Dilution	Analysis Date/Time	By	Cntr
Nitrate-N	4.0U	U,1	mg/L	5.0	4.0	1.1	EPA 300.0	10	07/14/2023 23:57	J1W	A
Sulfate	2740	2,3	mg/L	250	100	38.5	EPA 300.0	50	07/20/2023 19:01	J1W	A

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Project AHH105|HS23070546
Workorder 3312815

Results

Client Sample ID	16WW16-230711	Collected	07/11/2023 08:45
Lab Sample ID	3312815003	Lab Receipt	07/13/2023 09:08

WET CHEMISTRY

Compound	Result	Flag	Units	LOQ	LOD	DL	Method	Dilution	Analysis Date/Time	By	Cntr
Nitrate-N	0.58J	J,1,4,5	mg/L	2.5	2.0	0.55	EPA 300.0	5	07/15/2023 00:08	J1W	A
Sulfate	363		mg/L	25.0	10.0	3.9	EPA 300.0	5	07/15/2023 00:08	J1W	A

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Project AHH105|HS23070546
Workorder 3312815

Sample - Method Cross Reference Table

Lab ID	Sample ID	Analysis Method	Preparation Method	Leachate Method
3312815001	16WW58-230711	EPA 300.0	N/A	
3312815002	16WW57-230711	EPA 300.0	N/A	
		EPA 300.0	N/A	
3312815003	16WW16-230711	EPA 300.0	N/A	

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QUALITY CONTROL SAMPLES

WET CHEMISTRY

QC Batch

QC Batch	1025468	Prep Method	N/A
Date	N/A	Analysis Method	EPA 300.0
Tech.			

Associated Samples

3312815001 3312815002 3312815003

Method Blank 3694830 (MB) Created on 07/14/2023 06:49 For QC Batch 1025468

RESULTS

Compound	CAS No		Result	Units	LOQ	Qualifiers
Nitrate-N	NO3	BLK	0.40U	mg/L	0.50	U
Sulfate	SO4	BLK	2.0U	mg/L	5.0	U

Lab Control Standard 3694831 (LCS) Created on 07/14/2023 06:49 For QC Batch 1025468

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Nitrate-N	NO3	LCS	5		5	99.6	88 - 111		
Sulfate	SO4	LCS	50.40		50	101	87 - 112		

Matrix Spike 3694832 (MS) 3312815003 For QC Batch 1025468

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3694833 (MSD) 3312815003 For QC Batch 1025468

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Nitrate-N	NO3	MS	3.40	0.58	2.50	112*	88 - 111		
Nitrate-N	NO3	MSD	3.40	0.58	2.50	113*	88 - 111	RPD 0.21 (Max-15)	
Sulfate	SO4	MS	385	363	25	NC	87 - 112		
Sulfate	SO4	MSD	387	363	25	NC	87 - 112	RPD 0.53 (Max-15)	

Method Blank 3694835 (MB) Created on 07/14/2023 06:49 For QC Batch 1025468

RESULTS

Compound	CAS No		Result	Units	LOQ	Qualifiers
Nitrate-N	NO3	BLK	0.40U	mg/L	0.50	U
Sulfate	SO4	BLK	2.0U	mg/L	5.0	U

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QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

QC Batch

QC Batch	1027641	Prep Method	N/A
Date	N/A	Analysis Method	EPA 300.0
Tech.			

Associated Samples

3312815002

Method Blank 3697126 (MB) Created on 07/20/2023 06:52 For QC Batch 1027641

RESULTS

Compound	CAS No		Result	Units	LOQ	Qualifiers
Sulfate	SO4	BLK	2.0U	mg/L	5.0	U

Lab Control Standard 3697127 (LCS) Created on 07/20/2023 06:52 For QC Batch 1027641

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Sulfate	SO4	LCS	50.30		50	101	87 - 112		

Matrix Spike 3697128 (MS) 3312815002 For QC Batch 1027641

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3697129 (MSD) 3312815002 For QC Batch 1027641

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Sulfate	SO4	MS	2840	2740	250	NC	87 - 112		
Sulfate	SO4	MSD	2810	2740	250	NC	87 - 112	RPD 0.95 (Max-15)	

Method Blank 3697131 (MB) Created on 07/20/2023 06:52 For QC Batch 1027641

RESULTS

Compound	CAS No		Result	Units	LOQ	Qualifiers
Sulfate	SO4	BLK	2.0U	mg/L	5.0	U

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Project AHH105|HS23070546
Workorder 3312815

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Lab ID	Sample ID	Preparation Method	Prep Batch	Prep Date/Time	By	Analysis Method	Anly Batch
3312815001	16WW58-230711	N/A	N/A	N/A		EPA 300.0	1025468
3312815002	16WW57-230711	N/A	N/A	N/A		EPA 300.0	1027641
		N/A	N/A	N/A		EPA 300.0	1025468
3312815003	16WW16-230711	N/A	N/A	N/A		EPA 300.0	1025468

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3312815
Logged By: KSB
PM: SSL

Pg. 1 of 2

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Subcontract Chain of Custody

SAMPLING STATE: Dept of Defense **COC ID:** 22343

SUBCONTRACT TO:

ALS
301 Fulling Mill Road
Middletown, PA 17057

Phone: +1 717 702 2244

SHORT HOLDING TIME

CUSTOMER INFORMATION:

Company:	ALS Houston
Contact:	James Guin
Address:	10450 Stancliff Rd, Ste 210
Phone:	+1 281 530 5656
Email:	James.Guin@alsglobal.com
Alternate Contact:	Jumoke M. Lawal
Email:	jumoke.lawal@alsglobal.com

INVOICE INFORMATION:

Company:	ALS Houston
Contact:	Accounts Payable
Address:	10450 Stancliff Rd, Ste 210
Phone:	+1 281 530 5656
Reference:	HS23070546
TSR:	Ron Martino

	LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	COLLECT DATE
	ANALYSIS REQUESTED			DUE DATE
Qty - 1	1. **HS23070546-01**	**16WW58-230711**	**Groundwater**	**11 Jul 2023 07:05**
	Sub Nitrate and Sulfate to ALS Middletown			26 Jul 2023
Qty - 1	2. **HS23070546-02**	**16WW57-230711**	**Groundwater**	**11 Jul 2023 07:50**
	Sub Nitrate and Sulfate to ALS Middletown			26 Jul 2023
Qty - 3	3. **HS23070546-03**	**16WW16-230711**	**Groundwater**	**11 Jul 2023 08:45**
	Sub Nitrate and Sulfate to ALS Middletown			26 Jul 2023

Comments: Please analyze for the analysis listed above.
Send report to the emails shown above.
HS23070546-03 = ms/msd

QC Level: DOD IV (DoD Data Package)

Relinquished By: _____ Date/Time: 7/12/23 1800

Received By: FEDEX → DD/ALS Date/Time: 7/13/23 0908

Cooler ID(s): _____ Temperature(s): _____

Pg. 2 of 2

3312815

Temp By:	WO Temp (°C)	Therm ID
DD	2°	573

DD

Receipt Info Completed By:		
Cooler Custody Seal Intact	Y N NA	
Sample Custody Seal Intact	Y N NA	
Received on Ice	Y N NA	
Cooler & Samples Intact	Y N	
Correct Containers Provided	Y N	
Sample Label/COC Agree	Y N	
Adequate Sample Volumes	Y N	
CR6 Samples Filtered	Y N NA	
OP Samples Filtered	Y N NA	
VOA Trip Blank	Y N NA	
NI≤ 4 Days?	Y N	
Rad Screen (uCi)	—	
Courier/Tracking #:	6230 3002 5770	
SDWA Compliance	Y N	
PWSID		
WV Containers 0-6°C	Y N NA	

July 24, 2023 Service Request No:E2300640

Bernadette Fini
ALS Laboratory Group
10450 Stancliff Road
Suite 210
Houston, TX 77099-4338

Laboratory Results for: HS23070546

Dear Bernadette,

Enclosed are the results of the sample(s) submitted to our laboratory July 19, 2023
For your reference, these analyses have been assigned our service request number **E2300640.**

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. The test results meet requirements of the current TNI standards, where applicable, and except as noted in the laboratory case narrative provided. All results are intended to be considered in their entirety and ALS Environmental is not responsible for use of less than the complete final report. Results apply only to the items submitted to the laboratory, as received for analysis. In accordance with the current TNI Standard, a statement on the estimated uncertainty of measurement of any quantitative analysis will be supplied upon request.

Please contact me if you have any questions. My extension is 2188. You may also contact me via email at James.Guin@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

James Guin

ADDRESS 10450 Stancliff Rd., Suite 210, Houston, TX 77099
PHONE +1 281 530 5656 | FAX +1 281 530 5887
ALS Group USA, Corp.
dba ALS Environmental

Certificate of Analysis

ALS Environmental - Houston Specialties Laboratory
10450 Stancliff Rd., Suite 210, Houston TX 77099
Phone (281)530-5656 Fax (281)530-5887
www.alsglobal.com

ALS Environmental

Client:	ALS Environmental – US	**Service Request No.:**	E2300640
Project:	HS23070546	**Date Received:**	07/19/2023
Sample Matrix:	Ground Water		

CASE NARRATIVE

All analyses were performed in adherence to the quality assurance program of ALS Environmental. This report contains analytical results for samples designated for Tier II. When appropriate to the method, method blank results have been reported with each analytical test.

Sample Receipt

Eight samples were received for analysis at ALS Environmental in Houston on 07/19/2023.

The sample were received in good condition and is consistent with the accompanying chain of custody form. The samples were stored in a refrigerator at 4°C upon receipt at the laboratory.

Data Validation Notes and Discussion

Precision and Accuracy:

EQ2300351: Laboratory Control Spike/Duplicate Laboratory Control Spike (LCS/DLCS) samples were analyzed and reported in addition of MS/MSD for this extraction batch.

The batch precision (MS/DMS) measurements were determined on an unrelated sample in the extraction batch. The MS/DMS results are not included in this report.

The results of analyses are given in the attached laboratory report. All results are intended to be considered in their entirety, and ALS Environmental (ALS) is not responsible for utilization of less than the complete report.

Use of ALS group USA Corp dba ALS Environmental (ALS)'s Name. Client shall not use ALS's name or trademark in any marketing or reporting materials, press releases or in any other manner ("Materials") whatsoever and shall not attribute to ALS any test result, tolerance or specification derived from ALS's data ("Attribution") without ALS's prior written consent, which may be withheld by ALS for any reason in its sole discretion. To request ALS's consent, Client shall provide copies of the proposed Materials or Attribution and describe in writing Client's proposed use of such Materials or Attribution. If ALS has not provided written approval of the Materials or Attribution within ten (10) days of receipt from Client, Client's request to use ALS's name or trademark in any Materials or Attribution shall be deemed denied. ALS may, in its discretion, reasonably charge Client for its time in reviewing Materials or Attribution requests. Client acknowledges and agrees that the unauthorized use of ALS's name or trademark may cause ALS to incur irreparable harm for which the recovery of money damages will be inadequate. Accordingly, Client acknowledges and agrees that a violation shall justify preliminary injunctive relief. For questions contact the laboratory.

Client: ALS Environmental - US **Service Request:**E2300640
Project: HS23070546

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
E2300640-001	16WW58-230711	7/11/2023	0705
E2300640-002	16WW57-230711	7/11/2023	0750
E2300640-003	16WW16-230711	7/11/2023	0845
E2300640-004	16WW34-230711	7/11/2023	0945
E2300640-005	16WW33-230711	7/11/2023	1040
E2300640-006	16WW32-230711	7/11/2023	1125
E2300640-007	16WW31-230711	7/11/2023	1205
E2300640-008	16WW56-230711	7/11/2023	1245

Service Request Summary

Folder #: **E2300640**
Client Name: ALS Environmental - US
Project Name: HS23070546
Project Number:

Report To: Bernadette Fini
ALS Laboratory Group
10450 Stancliff Road
Houston, TX 77099-4338
USA
Phone Number: 281-530-5656
Cell Number:
Fax Number: 281-530-5887
E-mail: bernadette.fini@alsglobal.com

Project Chemist: James Guin
Originating Lab: HOUSTON
Logged By: XMI
Date Received: 07/19/23
Internal Due Date: 7/26/2023
QAP: LAB QAP
Qualifier Set: Lab Standard
Formset: Lab Standard
Merged?: Y
Report to MDL?: Y
P.O. Number: HS23070546
EDD: No EDD Specified

8 120 mL-Plastic Bottle Natural WM Unpreserved
Location: SUBBED
Pressure Gas:

Lab Samp No.	Client Samp No	Matrix	Collected	HOUSTON ClO4 DOD/6850
E2300640-001	16WW58-230711	Ground Water	07/11/23 0705	**IV**
E2300640-002	16WW57-230711	Ground Water	07/11/23 0750	**IV**
E2300640-003	16WW16-230711	Ground Water	07/11/23 0845	**IV**
E2300640-004	16WW34-230711	Ground Water	07/11/23 0945	**IV**
E2300640-005	16WW33-230711	Ground Water	07/11/23 1040	**IV**
E2300640-006	16WW32-230711	Ground Water	07/11/23 1125	**IV**
E2300640-007	16WW31-230711	Ground Water	07/11/23 1205	**IV**
E2300640-008	16WW56-230711	Ground Water	07/11/23 1245	**IV**

Service Request Summary

Folder #: **E2300640**
Client Name: ALS Environmental - US
Project Name: HS23070546
Project Number:

Report To: Bernadette Fini
ALS Laboratory Group
10450 Stancliff Road
Houston, TX 77099-4338
USA
Phone Number: 281-530-5656
Cell Number:
Fax Number: 281-530-5887
E-mail: bernadette.fini@alsglobal.com

Project Chemist: James Guin
Originating Lab: HOUSTON
Logged By: XMI
Date Received: 07/19/23
Internal Due Date: 7/26/2023
QAP: LAB QAP
Qualifier Set: Lab Standard
Formset: Lab Standard
Merged?: Y
Report to MDL?: Y
P.O. Number: HS23070546
EDD: No EDD Specified

8 120 mL-Plastic Bottle Natural WM Unpreserved
Location: SUBBED
Pressure Gas:

Test Comments:

Group	Test/Method	Samples	Comments
Semivoa GCMS	ClO4 DOD/6850	1	MS/MSD

Data Qualifiers

Lab Standard

+	Possible Tedlar bag artifact.
A	TIC is a suspected aldol-condensation product
B	Analyte found in the associated method blank as well as in the sample.
BC	Reported results are not blank corrected.
BH	The back section of the tube yielded higher results than the front.
BT	Results indicated possible breakthrough; back section >=10% front section.
C	Result identification confirmed.
D	Compound identified in an analysis at a secondary dilution factor
D	Spike was diluted out
DE	Reported results are corrected for desorption efficiency.
E	Estimated value. Concentration above calibration range
E	The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
F	The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
H	The chromatographic fingerprint of the sample resembles a petroleum product but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
H1	Sample analysis performed past holding time. See case narrative.
H2	Initial analysis within holding time. Reanalysis for the required dilution was past holding time.
H3	Sample was received and analyzed past holding time.
H4	Sample was extracted past required extraction holding time, but analyzed within analysis holding time. See case narrative.
I	(Auto) The reference ion ratio was outside acceptance criteria, which may indicate a potential bias to this result.
I	Internal standard not within the specified limits. See case narrative.
I	The reference ion ratio was outside acceptance criteria, which may indicate a potential bias to this result.
J	Estimated Value. Concentration found below MRL.
K	A deflection in the QC ion may indicate interference with the quantitation of this ion. The concentration of this analyte should be considered as an estimate.
K	Analyte was detected above the method reporting limit prior to normalization.
K	The reference ion ratio was outside acceptance criteria, which may indicate a potential bias to this result.
L	The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
L1	Laboratory control sample recovery outside the specified limits; results may be biased high.
L2	Laboratory control sample recovery outside the specified limits; results may be biased low.
L3	Laboratory control sample recovery outside the specified limits.
M	Matrix interference; results may be biased high.
M	The duplicate injection precision not met.

Data Qualifiers

Lab Standard

M1	Matrix interference due to coelution with a non-target compound; results may be biased high.
N	Presumptive evidence of a compound for TICs that have been identified based on a mass spectral library search.
N	The Matrix Spike sample recovery is not within control limits. See case narrative.
O	The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
P	Indicates chlorodiphenyl ether interference present at the retention time of the target compound.
P	Pesticide/Aroclor target analyte > 40% difference for detected concentrations between GC columns
Q	Indicates as estimated value because the P and P + 2 theoretical abundance ratio does not meet method criteria.
R	Duplicate Precision not met.
R1	Duplicate precision not within the specified limits; however, the results are below the MRL and considered estimated.
S	Surrogate recovery not within specified limits.
S	The reported value was determined by the Method of Standard Additions (MSA).
T	Analyte is a tentatively identified compound, result is estimated.
U	Compound was analyzed for, but was not detected (ND).
V1	The continuing calibration verification standard was outside (biased high) the specified limits for this compound.
V2	The continuing calibration verification standard was outside (biased low) the specified limits for this compound.
W	Result quantified, but the corresponding peak was detected outside the generated retention time window.
W	The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
X	See case narrative.
Y	Recovery outside limits
Y	The chromatogram resembles a petroleum product but does not match the calibration standard.
Z	The chromatogram does not resemble a petroleum product.
i	The MRL/MDL has been elevated due to a matrix interference.

ALS Laboratory Group

Acronyms

Cal	Calibration
Conc	CONCentration
Dioxin(s)	Polychlorinated dibenzo-p-dioxin(s)
EDL	Estimated Detection Limit
EMPC	Estimated Maximum Possible Concentration
Flags	Data qualifiers
Furan(s)	Polychlorinated dibenzofuran(s)
g	Grams
ICAL	Initial CALibration
ID	IDentifier
Ions	Masses monitored for the analyte during data acquisition
L	Liter (s)
LCS	Laboratory Control Sample
DLCS	Duplicate Laboratory Control Sample
MB	Method Blank
MCL	Method Calibration Limit
MDL	Method Detection Limit
mL	Milliliters
MS	Matrix Spiked sample
DMS	Duplicate Matrix Spiked sample
NO	Number of peaks meeting all identification criteria
PCDD(s)	Polychlorinated dibenzo-p-dioxin(s)
PCDF(s)	Polychlorinated dibenzofuran(s)
ppb	Parts per billion
ppm	Parts per million
ppq	Parts per quadrillion
ppt	Parts per trillion
QA	Quality Assurance
QC	Quality Control
Ratio	Ratio of areas from monitored ions for an analyte
% Rec.	Percent recovery
RPD	Relative Percent Difference
RRF	Relative Response Factor
RT	Retention Time
SDG	Sample Delivery Group
S/N	Signal-to-noise ratio
TEF	Toxicity Equivalence Factor
TEQ	Toxicity Equivalence Quotient

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ALS Environmental

State Certifications, Accreditations, and Licenses

Agency	Number	Expire Date
Arizona Department of Health Services	AZ0793_2024	5/27/2024
Arkansas Department of Environmental Quality	88-00356	3/27/2024
California State Environmental Laboratory Accreditation Program	2919	4/30/2024
Department of Defense	L22-90	3/31/2024
Department of Defense	L23-358	5/31/2025
Florida Department of Health	E87611-38	6/30/2024
Illinois Environmental Protection Agency	2000322023-11	6/30/2024
Kansas Department of Health and Environment	E-10352 2022-2023	7/31/2023
Louisiana Department of Environmental Quality	03087-2023	6/30/2024
Louisiana Department of Health and Hospitals	LA028-2023	12/31/2023
Maine Department of Health and Human Services	2022017	6/5/2024
Maryland Department of the Environment	343	7/31/2023
Michigan Depratment of Environmental Quality	9971-2023	4/30/2024
Minnesota Department of Health	2368363	12/31/2023
Nebraska Department of Health and Human Services	NE-OS-25-13	4/30/2024
Nevada Department of Conservation and Natural Resources	TX026932023-1	7/31/2023
New Hampshire Environmental Laboratory Accreditation Program	209423	4/24/2024
New Jersey Department of Environmental Protection	TX008-2024	6/30/2024
New York Department of Health	11707	3/31/2024
Oklahoma Department of Environmental Quality	2022-141	8/31/2023
Pennsylvania Department of Environmental Protection	68-03441-017	6/30/2024
Perry Johnson Laboratory Accreditation	L22-91	3/31/2024
Tennessee Department of Environment and Concervation	TN04016-2023	4/30/2024
Texas Commision on Environmental Quality	T104704231-23-30	4/30/2024
Utah Department of Health Environmental Laboratory Certification	TX026932022-13	7/31/2023
Washington Department of Ecology	C819-22	11/14/2023

ALS

Chain of Custody

ALS Environmental - Houston Specialties Laboratory
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Subcontract Chain of Custody

E2300640

SAMPLING STATE: **Dept of Defense**

COC ID: **22345**

E2300640 **5**
ALS Laboratory Group
HS23070546

SUBCONTRACT TO:

ALS Environmental
10450 Stancliff RoadSuite 210
Houston, TX 77084

Phone: +1 281 530 5656

CUSTOMER INFORMATION:

Company:	ALS Houston
Contact:	James Guin
Address:	10450 Stancliff Rd, Ste 210
Phone:	+1 281 530 5656
Email:	James.Guin@alsglobal.com
Alternate Contact:	Jumoke M. Lawal
Email:	jumoke.lawal@alsglobal.com

INVOICE INFORMATION:

Company:	ALS Houston
Contact:	Accounts Payable
Address:	10450 Stancliff Rd, Ste 210
Phone:	+1 281 530 5656
Reference:	HS23070546
TSR:	Ron Martino

	LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	COLLECT DATE
	ANALYSIS REQUESTED			DUE DATE
1.	**HS23070546-01**	**16WW58-230711**	**Groundwater**	**11 Jul 2023 07:05**
	6850 Perchlorate; separte Level II & Level IV PDF; EQUIS EDD LHAAP			26 Jul 2023
2.	**HS23070546-02**	**16WW57-230711**	**Groundwater**	**11 Jul 2023 07:50**
	6850 Perchlorate; separte Level II & Level IV PDF; EQUIS EDD LHAAP			26 Jul 2023
3.	**HS23070546-03**	**16WW16-230711**	**Groundwater**	**11 Jul 2023 08:45**
	6850 Perchlorate; separte Level II & Level IV PDF; EQUIS EDD LHAAP			26 Jul 2023
4.	**HS23070546-04**	**16WW34-230711**	**Groundwater**	**11 Jul 2023 09:45**
	6850 Perchlorate; separte Level II & Level IV PDF; EQUIS EDD LHAAP			26 Jul 2023
5.	**HS23070546-05**	**16WW33-230711**	**Groundwater**	**11 Jul 2023 10:40**
	6850 Perchlorate; separte Level II & Level IV PDF; EQUIS EDD LHAAP			26 Jul 2023
6.	**HS23070546-06**	**16WW32-230711**	**Groundwater**	**11 Jul 2023 11:25**
	6850 Perchlorate; separte Level II & Level IV PDF; EQUIS EDD LHAAP			26 Jul 2023
7.	**HS23070546-07**	**16WW31-230711**	**Groundwater**	**11 Jul 2023 12:05**
	6850 Perchlorate; separte Level II & Level IV PDF; EQUIS EDD LHAAP			26 Jul 2023
8.	**HS23070546-08**	**16WW56-230711**	**Groundwater**	**11 Jul 2023 12:45**

Subcontract Chain of Custody

SAMPLING STATE: **Dept of Defense** **COC ID: 22345**

LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	COLLECT DATE
ANALYSIS REQUESTED			DUE DATE
6850 Perchlorate; separte Level II & Level IV PDF; EQUIS EDD LHAAP			26 Jul 2023

Comments: Please analyze for the analysis listed above.
Send report to the emails shown above.
HS23070546-03 = ms/msd

QC Level: DOD IV (DoD Data Package)

Relinquished By: _____ Date/Time: _____

Received By: _____ Date/Time: 7.19.23 1400

Cooler ID(s): _____ Temperature(s): _____

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Houston, TX 77099
T: +1 281 530 5656
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www.alsglobal.com

Client: ALS Date: 7-14-25 WO#:

Time Received: 1405 Received by: CG BO#:

Matrices: Solid/Sludge Water Oil Wipes Hydrocarbon Liquid Other

Kit ID/Cooler ID	Trip Blank ID	Cooler Temp (C) Observed/Corrected	IR #	Temp BLK Present?
—		4.1 / 4.0	31	Y N
		/		Y N
		/		Y N
		/		Y N
		/		Y N

Delivery Method: FedEx UPS Greyhound ALS Client Other

Date/Time of Unpacking: 7-14-25 Unpacked by: CG

Shipping container/cooler in good condition?	~~Yes~~	No	Not Present
Custody seals intact on shipping container/cooler?	Yes	No	~~Not Present~~
Custody seals intact on sample bottles?	Yes	No	~~Not Present~~
Chain of Custody present?	~~Yes~~	No	
Chain of Custody signed when relinquished and received?	~~Yes~~	No	
Chain of Custody – Sampler's name present?	Yes	~~No~~	
Chain of Custody agrees with sample labels?	~~Yes~~	No	
Samples in proper container/bottle?	~~Yes~~	No	
VOA/TX1005/1006 Solids in hermetically Sealed Vials:	Yes	No	No VOA/TX1005/1006 Solid
Sample containers intact?	~~Yes~~	No	
Sufficient sample volume for indicated test?	~~Yes~~	No	
All samples received within holding time?	~~Yes~~	No	
Container/Temp Blank temperature in compliance?	~~Yes~~	No	
Water - VOA vials have zero headspace?	Yes	No	N/A ~~No VOA submitted~~
Non-VOA waters preserved with HCl, H2SO4, HNO3 are pH <2?			Yes No N/A
Waters preserved with NaOH/Ascorbic acid are pH>12?	Yes	No	~~N/A~~
pH adjusted?	Yes*	No	~~N/A~~ *See Preservation Logbook

pH adjusted by: _____ **pH Paper Lot:** _____

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SAMPLE ACCEPTANCE POLICY

This policy outlines the criteria samples must meet to be accepted by ALS Environmental – Houston HRMS.

Cooler Custody Seals (desirable, mandatory if specified in SAP):

- ✓ Intact on outside of cooler, signed and dated

Chain-of-Custody (COC) documentation (mandatory):

The following is required on each COC:

- ✓ Sample ID, the location, date and time of collection, collector's name, preservation type, sample type, and any other special remarks concerning the sampleThe COC must be completed in ink.
- ✓ Signature and date of relinquishing party.

In the absence of a COC at sample receipt, the COC will be requested from the client.

Sample Integrity (mandatory):

Samples are inspected upon arrival to ensure that sample integrity was not compromised during transfer to the laboratory.

- ✓ Sample containers must arrive in good condition (not broken or leaking).
- ✓ Samples must be labeled appropriately, including Sample IDs, and requested test using durable labels and indelible ink.
- ✓ The correct type of sample bottle must be used for the method requested.
- ✓ An appropriate sample volume, or weight, must be received.
- ✓ Sample IDs and number of containers must reconcile with the COC.
- ✓ Samples must be received within the method defined holding time.

Temperature Requirement (varies by sample matrix):

- ✓ Aqueous and Non-aqueous samples must be shipped and stored cold, at 0 to 6ºC.
- ✓ Tissue samples must be shipped and stored frozen, at -20 to -10ºC.
- ✓ Air samples are shipped and stored cold, at 0 to 6ºC
- ✓ The sample temperature must be recorded on the COC

All cooler inspections are documented on the Cooler Receipt Form (CRF). A separate CRF is completed for each service request. Any samples not meeting the above criteria are noted on the CRF and the Project Manager notified. The Project Manager must resolve any sample integrity issues with the client prior to proceeding with the analysis. Such resolutions are documented in writing and filed with the project folder. Data associated with samples received outside of this acceptance policy will be qualified on the case narrative of the final report

Preparation Information Benchsheets

ALS Environmental - Houston Specialties Laboratory
10450 Stancliff Rd., Suite 210, Houston TX 77099
Phone (281)530-5656 Fax (281)530-5887
www.alsglobal.com

Preparation Information Benchsheet

Prep Run#: 423453 **Prep WorkFlow:** GenExt28Day **Status:** Prepped
Team: Semivoa GCMS/XMI **Prep Method:** Method **Prep Date/Time:** 7/20/23 10:26

#	Lab Code	Client ID	B#	Method /Test	pH	Cl	Matrix	Amt. Ext.	Sample Description
1	E2300640-001	16WW58-230711	.01	6850/ClO4 DOD			Ground Water	10mL	
2	E2300640-002	16WW57-230711	.01	6850/ClO4 DOD			Ground Water	10mL	
3	E2300640-003	16WW16-230711	.01	6850/ClO4 DOD			Ground Water	10mL	
4	E2300640-004	16WW34-230711	.01	6850/ClO4 DOD			Ground Water	10mL	
5	E2300640-005	16WW33-230711	.01	6850/ClO4 DOD			Ground Water	10mL	
6	E2300640-006	16WW32-230711	.01	6850/ClO4 DOD			Ground Water	10mL	
7	E2300640-007	16WW31-230711	.01	6850/ClO4 DOD			Ground Water	10mL	
8	E2300640-008	16WW56-230711	.01	6850/ClO4 DOD			Ground Water	10mL	
9	E2300641-001	16WW55-230712	.01	6850/ClO4 DOD			Ground Water	10mL	
10	E2300641-002	16WW41-230712	.01	6850/ClO4 DOD			Ground Water	10mL	
11	E2300641-003	16WW48-230712	.01	6850/ClO4 DOD			Ground Water	10mL	
12	E2300641-004	16WW48-230712-FD	.01	6850/ClO4 DOD			Ground Water	10mL	
13	E2300641-005	16EW03-230712	.01	6850/ClO4 DOD			Ground Water	10mL	
14	E2300641-006	16WW35-230712	.01	6850/ClO4 DOD			Ground Water	10mL	
15	E2300641-007	16WW36-230712	.01	6850/ClO4 DOD			Ground Water	10mL	
16	E2300641-008	16WW25-230712	.01	6850/ClO4 DOD			Ground Water	10mL	
17	E2300641-009	16WW26-230712	.01	6850/ClO4 DOD			Ground Water	10mL	
18	E2300641-010	16WW66-230712-FD	.01	6850/ClO4 DOD			Ground Water	10mL	
19	EQ2300351-01	MB		6850/ClO4 DOD			Liquid	10mL	
20	EQ2300351-02	LCS		6850/ClO4 DOD			Liquid	10mL	
21	EQ2300351-03	DLCS		6850/ClO4 DOD			Liquid	10mL	
22	EQ2300351-04	16WW16-230711 MS	.01	6850/ClO4 DOD			Liquid	10mL	
23	EQ2300351-05	16WW16-230711 DMS	.01	6850/ClO4 DOD			Liquid	10mL	

Spiking Solutions

Name: Perchlorate Intermediate Stock1 Inventory ID 227236 Logbook Ref: Perchlorate (1st Source) Expires On: 07/31/2023

EQ2300351-02	1.00µL	EQ2300351-03	1.00µL	EQ2300351-04	1.00µL	EQ2300351-05	1.00µL

Name: Perchlorate Internal Standard 1ug/mL Inventory ID 227244 Logbook Ref: Perchlorate Internal Standard Expires On: 07/31/2023

E2300640-001	100.00µL	E2300640-002	100.00µL	E2300640-003	100.00µL	E2300640-004	100.00µL	E2300640-005	100.00µL	E2300640-006	100.00µL
E2300640-007	100.00µL	E2300640-008	100.00µL	E2300641-001	100.00µL	E2300641-002	100.00µL	E2300641-003	100.00µL	E2300641-004	100.00µL
E2300641-005	100.00µL	E2300641-006	100.00µL	E2300641-007	100.00µL	E2300641-008	100.00µL	E2300641-009	100.00µL	E2300641-010	100.00µL
EQ2300351-01	100.00µL	EQ2300351-02	100.00µL	EQ2300351-03	100.00µL	EQ2300351-04	100.00µL	EQ2300351-05	100.00µL		

Preparation Information Benchsheet

Prep Run#: 423453 **Prep WorkFlow:** GenExt28Day **Status:** Prepped
Team: Semivoa GCMS/XMI **Prep Method:** Method **Prep Date/Time:** 7/20/23 10:26

Preparation Materials

Water HPLC Grade	HPLC water 5/18/23CG (229315)	6850 Amber Glass screw vial	2mL Screw Top Vial (221894)	6850 0.45um syringe filters	6850 0.45 SYRING FILTER (229979)
6850 Luer-Lok Syringes	luer-lock syringes (228116)				

Preparation Steps

Step: Preparation
Started: 7/20/23 10:26
Finished: 7/20/23 11:30
By: XMI
Comments

Comments: _____

Reviewed By: _____ Date: _____

Chain of Custody

Relinquished By: _____ Date: _____ Extracts Examined

Received By: _____ Date: _____ Yes No

Analytical Results

ALS Environmental - Houston Specialties Laboratory
10450 Stancliff Rd., Suite 210, Houston TX 77099
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ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300640
Project:	HS23070546	**Date Collected:**	7/11/23 0705
Sample Matrix:	Ground Water	**Date Received:**	7/19/23
Sample Name:	16WW58-230711	**Units:**	µg/L
Lab Code:	E2300640-001	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	ND	U	0.100	0.0500	0.0250	1	7/20/23	7/21/23 13:31	423453	811523	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300640
Project:	HS23070546	**Date Collected:**	7/11/23 0750
Sample Matrix:	Ground Water	**Date Received:**	7/19/23
Sample Name:	16WW57-230711	**Units:**	µg/L
Lab Code:	E2300640-002	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	ND	U	0.100	0.0500	0.0250	1	7/20/23	7/21/23 13:36	423453	811523	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300640
Project:	HS23070546	**Date Collected:**	7/11/23 0845
Sample Matrix:	Ground Water	**Date Received:**	7/19/23
Sample Name:	16WW16-230711	**Units:**	µg/L
Lab Code:	E2300640-003	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	**716**		2.00	1.00	0.500	20	7/20/23	7/21/23 13:42	423453	811523	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300640
Project:	HS23070546	**Date Collected:**	7/11/23 0945
Sample Matrix:	Ground Water	**Date Received:**	7/19/23
Sample Name:	16WW34-230711	**Units:**	µg/L
Lab Code:	E2300640-004	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	ND	U	0.100	0.0500	0.0250	1	7/20/23	7/21/23 14:09	423453	811523	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300640
Project:	HS23070546	**Date Collected:**	7/11/23 1040
Sample Matrix:	Ground Water	**Date Received:**	7/19/23
Sample Name:	16WW33-230711	**Units:**	µg/L
Lab Code:	E2300640-005	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	ND	U	0.100	0.0500	0.0250	1	7/20/23	7/21/23 14:15	423453	811523	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300640
Project:	HS23070546	**Date Collected:**	7/11/23 1125
Sample Matrix:	Ground Water	**Date Received:**	7/19/23
Sample Name:	16WW32-230711	**Units:**	µg/L
Lab Code:	E2300640-006	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	ND	U	0.100	0.0500	0.0250	1	7/20/23	7/21/23 14:20	423453	811523	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300640
Project:	HS23070546	**Date Collected:**	7/11/23 1205
Sample Matrix:	Ground Water	**Date Received:**	7/19/23
Sample Name:	16WW31-230711	**Units:**	µg/L
Lab Code:	E2300640-007	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	ND	U	0.100	0.0500	0.0250	1	7/20/23	7/21/23 14:26	423453	811523	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300640
Project:	HS23070546	**Date Collected:**	7/11/23 1245
Sample Matrix:	Ground Water	**Date Received:**	7/19/23
Sample Name:	16WW56-230711	**Units:**	µg/L
Lab Code:	E2300640-008	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	ND	U	0.100	0.0500	0.0250	1	7/20/23	7/21/23 14:31	423453	811523	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300640
Project:	HS23070546	**Date Collected:**	NA
Sample Matrix:	Ground Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	µg/L
Lab Code:	EQ2300351-01	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	ND	U	0.100	0.0500	0.0250	1	7/20/23	7/21/23 13:14	423453	811523	

Accuracy & Precision

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ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS23070546
Sample Matrix: Ground Water

Service Request: E2300640
Date Analyzed: 7/21/23

Lab Control Sample Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Units: µg/L
Basis: NA

Extraction Lot: 423453

	Lab Control Sample EQ2300351-02			Duplicate Lab Control Sample EQ2300351-03					
Analyte Name	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Perchlorate	0.0922	0.100	92	0.0959	0.100	96	84 - 119	4	15

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300640
Project:	HS23070546	**Date Collected:**	NA
Sample Matrix:	Ground Water	**Date Received:**	NA
Sample Name:	Lab Control Sample	**Units:**	µg/L
Lab Code:	EQ2300351-02	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	**0.0922**	J	0.100	0.0500	0.0250	1	7/20/23	7/21/23 13:20	423453	811523	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300640
Project:	HS23070546	**Date Collected:**	NA
Sample Matrix:	Ground Water	**Date Received:**	NA
Sample Name:	Duplicate Lab Control Sample	**Units:**	µg/L
Lab Code:	EQ2300351-03	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	**0.0959**	J	0.100	0.0500	0.0250	1	7/20/23	7/21/23 13:25	423453	811523	

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client:	ALS Environmental - US	**Service Request:**	E2300640
Project:	HS23070546	**Date Collected:**	7/11/23
Sample Matrix:	Ground Water	**Date Received:**	7/19/23
		Date Analyzed:	7/21/23

Matrix Spike Summary

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Sample Name:	16WW16-230711	**Units:**	µg/L
Lab Code:	E2300640-003	**Basis:**	NA

Analytical Method: 6850
Prep Method: Method

		16WW16-230711MS				16WW16-230711DMS					
		Matrix Spike				**Duplicate Matrix Spike**					
		EQ2300351-04				EQ2300351-05					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Perchlorate	716	794	0.100	78079 #	782	0.100	66627 #	84 - 119	1	15

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300640
Project:	HS23070546	**Date Collected:**	7/11/23 0845
Sample Matrix:	Ground Water	**Date Received:**	7/19/23
Sample Name:	16WW16-230711	**Units:**	µg/L
Lab Code:	EQ2300351-04	**Basis:**	NA
Run Type:	Matrix Spike		

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	**794**	E	0.100	0.0500	0.0250	1	7/20/23	7/21/23 13:47	423453	811523	*

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300640
Project:	HS23070546	**Date Collected:**	7/11/23 0845
Sample Matrix:	Ground Water	**Date Received:**	7/19/23
Sample Name:	16WW16-230711	**Units:**	µg/L
Lab Code:	EQ2300351-05	**Basis:**	NA
Run Type:	Duplicate Matrix Spike		

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	**782**	E	0.100	0.0500	0.0250	1	7/20/23	7/21/23 13:53	423453	811523	*

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ANALYTICAL REPORT

PREPARED FOR

Attn: Jumoke Lawal
ALS Group USA, Corp
10450 Stancliff Rd.
Suite 210
Houston, Texas 77099

Generated 7/19/2023 8:33:50 AM

JOB DESCRIPTION

HS23070546

JOB NUMBER

410-134453-1

Eurofins Lancaster Laboratories Environment Testing, LLC
2425 New Holland Pike
Lancaster PA 17601

See page two for job notes and contact information.

my EOL

Eurofins Lancaster Laboratories Environment Testing, LLC

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization

Generated
7/19/2023 8:33:50 AM

Authorized for release by
Kelly Bauer, Project Manager
Kelly.Bauer@et.eurofinsus.com
(717)556-7262

Eurofins Lancaster Laboratories Environment Testing, LLC

Compliance Statement

Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments.
· QC results that exceed the upper limits and are associated with non-detect samples are qualified but further narration is not required since the bias is high and does not change a non-detect result. Further narration is also not required with QC blank detection when the associated sample concentration is non-detect or more than ten times the level in the blank.
· Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD is performed, unless otherwise specified in the method.
· Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.
Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Measurement uncertainty values, as applicable, are available upon request.

Test results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" and tested in the laboratory are not performed within 15 minutes of collection.

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Definitions/Glossary

Client: ALS Group USA, Corp
Job ID: 410-134453-1
Project/Site: HS23070546

Qualifiers

GC VOA

Qualifier	Qualifier Description
J1	Estimated: The quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.
M	Manual integrated compound.
U	Undetected at the Limit of Detection.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: ALS Group USA, Corp
Project/Site: HS23070546

Job ID: 410-134453-1

Job ID: 410-134453-1

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

Narrative

Job Narrative
410-134453-1

Receipt

The samples were received on 7/13/2023 9:48 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.0°C

GC VOA

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Detection Summary

Client: ALS Group USA, Corp
Project/Site: HS23070546

Job ID: 410-134453-1

Client Sample ID: 16WW58-230711 — Lab Sample ID: 410-134453-1

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
Carbon dioxide	130000		12000	2600	ug/L	1		RSK-175	Total/NA

Client Sample ID: 16WW57-230711 — Lab Sample ID: 410-134453-2

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
Carbon dioxide	210000	M	12000	2600	ug/L	1		RSK-175	Total/NA

Client Sample ID: 16WW16-230711 — Lab Sample ID: 410-134453-3

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
Carbon dioxide	120000	J1	12000	2600	ug/L	1		RSK-175	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: ALS Group USA, Corp
Project/Site: HS23070546

Job ID: 410-134453-1

Client Sample ID: 16WW58-230711

Lab Sample ID: 410-134453-1

Date Collected: 07/11/23 07:05
Matrix: Water
Date Received: 07/13/23 09:48

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	130000		12000	2600	ug/L		07/18/23 10:42	07/18/23 15:55	1

Client Sample ID: 16WW57-230711

Lab Sample ID: 410-134453-2

Date Collected: 07/11/23 07:50
Matrix: Water
Date Received: 07/13/23 09:48

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	210000	M	12000	2600	ug/L		07/18/23 10:42	07/18/23 16:11	1

Client Sample ID: 16WW16-230711

Lab Sample ID: 410-134453-3

Date Collected: 07/11/23 08:45
Matrix: Water
Date Received: 07/13/23 09:48

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	120000	J1	12000	2600	ug/L		07/18/23 10:42	07/18/23 16:19	1

QC Sample Results

Client: ALS Group USA, Corp
Project/Site: HS23070546

Job ID: 410-134453-1

Method: RSK-175 - Dissolved Gases (GC)

Lab Sample ID: MB 410-397965/1-A
Matrix: Water
Analysis Batch: 397918

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 397965

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	2600	U M	12000	2600	ug/L		07/18/23 10:42	07/18/23 10:47	1

Lab Sample ID: LCS 410-397965/2-A
Matrix: Water
Analysis Batch: 397918

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 397965

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Carbon dioxide	35800	36600		ug/L		102	80 - 122

Lab Sample ID: 410-134453-3 MS
Matrix: Water
Analysis Batch: 397918

Client Sample ID: 16WW16-230711
Prep Type: Total/NA
Prep Batch: 397965

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Carbon dioxide	120000	J1	35800	135000	J1	ug/L		42	80 - 122

Lab Sample ID: 410-134453-3 MSD
Matrix: Water
Analysis Batch: 397918

Client Sample ID: 16WW16-230711
Prep Type: Total/NA
Prep Batch: 397965

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Carbon dioxide	120000	J1	35800	138000	J1	ug/L		52	80 - 122	3	30

QC Association Summary

Client: ALS Group USA, Corp
Project/Site: HS23070546

Job ID: 410-134453-1

GC VOA

Analysis Batch: 397918

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-134453-1	16WW58-230711	Total/NA	Water	RSK-175	397965
410-134453-2	16WW57-230711	Total/NA	Water	RSK-175	397965
410-134453-3	16WW16-230711	Total/NA	Water	RSK-175	397965
MB 410-397965/1-A	Method Blank	Total/NA	Water	RSK-175	397965
LCS 410-397965/2-A	Lab Control Sample	Total/NA	Water	RSK-175	397965
410-134453-3 MS	16WW16-230711	Total/NA	Water	RSK-175	397965
410-134453-3 MSD	16WW16-230711	Total/NA	Water	RSK-175	397965

Prep Batch: 397965

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-134453-1	16WW58-230711	Total/NA	Water	RSK-175	
410-134453-2	16WW57-230711	Total/NA	Water	RSK-175	
410-134453-3	16WW16-230711	Total/NA	Water	RSK-175	
MB 410-397965/1-A	Method Blank	Total/NA	Water	RSK-175	
LCS 410-397965/2-A	Lab Control Sample	Total/NA	Water	RSK-175	
410-134453-3 MS	16WW16-230711	Total/NA	Water	RSK-175	
410-134453-3 MSD	16WW16-230711	Total/NA	Water	RSK-175	

Lab Chronicle

Client: ALS Group USA, Corp
Project/Site: HS23070546

Job ID: 410-134453-1

Client Sample ID: 16WW58-230711

Lab Sample ID: 410-134453-1

Date Collected: 07/11/23 07:05
Matrix: Water
Date Received: 07/13/23 09:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	RSK-175			397965	HQR6	ELLE	07/18/23 10:42
Total/NA	Analysis	RSK-175		1	397918	LXF2	ELLE	07/18/23 15:55

Client Sample ID: 16WW57-230711

Lab Sample ID: 410-134453-2

Date Collected: 07/11/23 07:50
Matrix: Water
Date Received: 07/13/23 09:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	RSK-175			397965	HQR6	ELLE	07/18/23 10:42
Total/NA	Analysis	RSK-175		1	397918	LXF2	ELLE	07/18/23 16:11

Client Sample ID: 16WW16-230711

Lab Sample ID: 410-134453-3

Date Collected: 07/11/23 08:45
Matrix: Water
Date Received: 07/13/23 09:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	RSK-175			397965	HQR6	ELLE	07/18/23 10:42
Total/NA	Analysis	RSK-175		1	397918	LXF2	ELLE	07/18/23 16:19

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Accreditation/Certification Summary

Client: ALS Group USA, Corp
Job ID: 410-134453-1
Project/Site: HS23070546

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	0001.01	11-30-24

Method Summary

Client: ALS Group USA, Corp
Project/Site: HS23070546

Job ID: 410-134453-1

Method	Method Description	Protocol	Laboratory
RSK-175	Dissolved Gases (GC)	RSK	ELLE
RSK-175	Dissolved Gases Prep	RSK	ELLE

Protocol References:

RSK = Sample Prep And Calculations For Dissolved Gas Analysis In Water Samples Using A GC Headspace Equilibration Technique , RSKSOP-175, Rev. 0, 8/11/94, USEPA Research Lab

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Sample Summary

Client: ALS Group USA, Corp
Project/Site: HS23070546

Job ID: 410-134453-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
410-134453-1	16WW58-230711	Water	07/11/23 07:05	07/13/23 09:48
410-134453-2	16WW57-230711	Water	07/11/23 07:50	07/13/23 09:48
410-134453-3	16WW16-230711	Water	07/11/23 08:45	07/13/23 09:48

10450 Stancliff Rd, Ste 210
Houston, TX 77099
T: +1 281 530 5656
F: +1 281 530 5887
www.alsglobal.com

410-134453 Chain of Custody

Subcontract Chain of Custody

SAMPLING STATE: Dept of Defense **COC ID:** 22344

SUBCONTRACT TO:

Eurofins Lancaster Laboratories Envt Testing
2425 New Holland Pike
Lancaster, PA 17601

Phone: +1 717 656 2300

SHORT HOLDING TIME

CUSTOMER INFORMATION:

Company:	ALS Houston
Contact:	James Guin
Address:	10450 Stancliff Rd, Ste 210
Phone:	+1 281 530 5656
Email:	James.Guin@alsglobal.com
Alternate Contact:	Jumoke M. Lawal
Email:	jumoke.lawal@alsglobal.com

INVOICE INFORMATION:

Company:	ALS Houston
Contact:	Accounts Payable
Address:	10450 Stancliff Rd, Ste 210
Phone:	+1 281 530 5656
Reference:	HS23070546
TSR:	Ron Martino

	LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	COLLECT DATE
	ANALYSIS REQUESTED			DUE DATE
1.	**HS23070546-01**	**16WW58-230711**	**Groundwater**	**11 Jul 2023 07:05**
	RSK-CO2; DoD Level II & IV, Equ_APTIM_GISKey			26 Jul 2023
2.	**HS23070546-02**	**16WW57-230711**	**Groundwater**	**11 Jul 2023 07:50**
	RSK-CO2; DoD Level II & IV, Equ_APTIM_GISKey			26 Jul 2023
3.	**HS23070546-03**	**16WW16-230711**	**Groundwater**	**11 Jul 2023 08:45**
	RSK-CO2; DoD Level II & IV, Equ_APTIM_GISKey			26 Jul 2023

Comments: Please analyze for the analysis listed above.
Send report to the emails shown above.
HS23070546-03 = ms/msd

QC Level: DOD IV (DoD Data Package)

Relinquished By: _____ Date/Time: 7/12/23 1800

Received By: Debra A Byam Date/Time: 7-13-23 09:48

Cooler ID(s): _____ Temperature(s): _____

RIGHT SOLUTIONS | RIGHT PARTNER

Raw 1.0 - COR 1.0

10450 Stancliff Rd, Ste 210
Houston, TX 77099
T: +1 281 530 5656
F: +1 281 530 5887
www.alsglobal.com

Purchase Order

PO: HS23070546

VENDOR:

Eurofins Lancaster Laboratories Envt Testing
2425 New Holland Pike
Lancaster, PA 17601

Phone: +1 717 656 2300

CUSTOMER INFORMATION:

Company:	ALS Houston
Contact:	James Guin
Address:	10450 Stancliff Rd, Ste 210
Phone:	+1 281 530 5656
Email:	James.Guin@alsglobal.com
Alternate Contact:	Jumoke M. Lawal
Email:	jumoke.lawal@alsglobal.com

INVOICE INFORMATION:

Company:	ALS Houston
Contact:	Accounts Payable
Address:	10450 Stancliff Rd, Ste 210
Phone:	+1 281 530 5656
Reference:	22344
TSR:	Ron Martino

Item	Catalog No	Unit Price	Quantity	Ext Price
1. RSK-CO2; DoD Level II & IV, Equ_APTIM_GISKey	NA		3	

Order Total:

Login Sample Receipt Checklist

Client: ALS Group USA, Corp

Job Number: 410-134453-1

Login Number: 134453
List Number: 1
Creator: Ballard, Megan

List Source: Eurofins Lancaster Laboratories Environment Testing, LLC

Question	Answer	Comment
The cooler's custody seal is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable (</=6C, not frozen).	True	
Cooler Temperature is recorded.	True	
WV: Container Temperature is acceptable (</=6C, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	False	Received project as a subcontract.
Sample custody seals are intact.	N/A	
VOA sample vials do not have headspace >6mm in diameter (none, if from WV)?	N/A	

HS23070546-MSVOA-SW8260

ALS WO# HS23070546

01319459

right solutions.
right partner.

Form 1

Organic Analysis Data Sheet

Volatiles by EPA 8260

Workorder

HS23070546

Client

Bhate Environmental Associates, Inc.

Project

LHAAP Site 16

07/25/2023

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP Site 16

Workorder **HS23070546**

Volatiles by EPA 8260

HS23070546-01

16WW58-230711

Collected	Received	Matrix	Basis
07/11/23 07:05	07/12/23 10:05	Groundwater	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
1,1,2-Trichloroethane	ug/L	50	U	15	50	50	50	07/15/23 00:37	VOA6_441458	Y071423.D
1,1-Dichloroethene	ug/L	50	U	10	50	50	50	07/15/23 00:37	VOA6_441458	Y071423.D
1,2-Dichloroethane	ug/L	50	U	10	50	50	50	07/15/23 00:37	VOA6_441458	Y071423.D
cis-1,2-Dichloroethene	ug/L	140		10	50	50	50	07/15/23 00:37	VOA6_441458	Y071423.D
Methylene chloride	ug/L	100	U	20	100	100	50	07/15/23 00:37	VOA6_441458	Y071423.D
Trichloroethene	ug/L	3,600		10	50	50	50	07/15/23 00:37	VOA6_441458	Y071423.D
Vinyl chloride	ug/L	50	U	10	50	50	50	07/15/23 00:37	VOA6_441458	Y071423.D

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP Site 16

Workorder **HS23070546**

Volatiles by EPA 8260

HS23070546-02

16WW57-230711

Collected	Received	Matrix	Basis
07/11/23 07:50	07/12/23 10:05	Groundwater	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
1,1,2-Trichloroethane	ug/L	5.0	U	1.5	5.0	5.0	5	07/15/23 00:17	VOA6_441458	Y071422.D
1,1-Dichloroethene	ug/L	2.6	J	1.0	5.0	5.0	5	07/15/23 00:17	VOA6_441458	Y071422.D
1,2-Dichloroethane	ug/L	5.0	U	1.0	5.0	5.0	5	07/15/23 00:17	VOA6_441458	Y071422.D
cis-1,2-Dichloroethene	ug/L	3.0	J	1.0	5.0	5.0	5	07/15/23 00:17	VOA6_441458	Y071422.D
Methylene chloride	ug/L	10	U	2.0	10	10	5	07/15/23 00:17	VOA6_441458	Y071422.D
Trichloroethene	ug/L	150		1.0	5.0	5.0	5	07/15/23 00:17	VOA6_441458	Y071422.D
Vinyl chloride	ug/L	5.0	U	1.0	5.0	5.0	5	07/15/23 00:17	VOA6_441458	Y071422.D

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP Site 16

Workorder
HS23070546

Volatiles by EPA 8260

HS23070546-03

16WW16-230711

Collected	Received	Matrix	Basis
07/11/23 08:45	07/12/23 10:05	Groundwater	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
1,1,2-Trichloroethane	ug/L	100	U	30	100	100	100	07/18/23 00:32	VOA6_441608	Y071709.D
1,1-Dichloroethene	ug/L	110		20	100	100	100	07/18/23 00:32	VOA6_441608	Y071709.D
1,2-Dichloroethane	ug/L	53	J	20	100	100	100	07/18/23 00:32	VOA6_441608	Y071709.D
cis-1,2-Dichloroethene	ug/L	33,000		200	1000	1000	1000	07/18/23 00:53	VOA6_441608	Y071710.D
Methylene chloride	ug/L	200	U	40	200	200	100	07/18/23 00:32	VOA6_441608	Y071709.D
Trichloroethene	ug/L	58,000		200	1000	1000	1000	07/18/23 00:53	VOA6_441608	Y071710.D
Vinyl chloride	ug/L	580		20	100	100	100	07/18/23 00:32	VOA6_441608	Y071709.D

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP Site 16

Workorder **HS23070546**

Volatiles by EPA 8260

HS23070546-04

16WW34-230711

Collected	Received	Matrix	Basis
07/11/23 09:45	07/12/23 10:05	Groundwater	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
1,1,2-Trichloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	07/18/23 02:56	VOA6_441608	Y071716.D
1,1-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	07/18/23 02:56	VOA6_441608	Y071716.D
1,2-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	07/18/23 02:56	VOA6_441608	Y071716.D
cis-1,2-Dichloroethene	ug/L	4.7		0.20	1.0	1.0	1	07/18/23 02:56	VOA6_441608	Y071716.D
Methylene chloride	ug/L	2.0	U	0.40	2.0	2.0	1	07/18/23 02:56	VOA6_441608	Y071716.D
Trichloroethene	ug/L	22		0.20	1.0	1.0	1	07/18/23 02:56	VOA6_441608	Y071716.D
Vinyl chloride	ug/L	1.0	U	0.20	1.0	1.0	1	07/18/23 02:56	VOA6_441608	Y071716.D

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP Site 16

Workorder **HS23070546**

Volatiles by EPA 8260

HS23070546-05

16WW33-230711

Collected	Received	Matrix	Basis
07/11/23 10:40	07/12/23 10:05	Groundwater	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
1,1,2-Trichloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	07/18/23 03:16	VOA6_441608	Y071717.D
1,1-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	07/18/23 03:16	VOA6_441608	Y071717.D
1,2-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	07/18/23 03:16	VOA6_441608	Y071717.D
cis-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	07/18/23 03:16	VOA6_441608	Y071717.D
Methylene chloride	ug/L	2.0	U	0.40	2.0	2.0	1	07/18/23 03:16	VOA6_441608	Y071717.D
Trichloroethene	ug/L	2.0		0.20	1.0	1.0	1	07/18/23 03:16	VOA6_441608	Y071717.D
Vinyl chloride	ug/L	1.0	U	0.20	1.0	1.0	1	07/18/23 03:16	VOA6_441608	Y071717.D

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP Site 16

Workorder **HS23070546**

Volatiles by EPA 8260

HS23070546-06

16WW32-230711

Collected	Received	Matrix	Basis
07/11/23 11:25	07/12/23 10:05	Groundwater	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
1,1,2-Trichloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	07/18/23 03:37	VOA6_441608	Y071718.D
1,1-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	07/18/23 03:37	VOA6_441608	Y071718.D
1,2-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	07/18/23 03:37	VOA6_441608	Y071718.D
cis-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	07/18/23 03:37	VOA6_441608	Y071718.D
Methylene chloride	ug/L	2.0	U	0.40	2.0	2.0	1	07/18/23 03:37	VOA6_441608	Y071718.D
Trichloroethene	ug/L	1.3		0.20	1.0	1.0	1	07/18/23 03:37	VOA6_441608	Y071718.D
Vinyl chloride	ug/L	1.0	U	0.20	1.0	1.0	1	07/18/23 03:37	VOA6_441608	Y071718.D

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP Site 16

Workorder **HS23070546**

Volatiles by EPA 8260

HS23070546-07

16WW31-230711

Collected	Received	Matrix	Basis
07/11/23 12:05	07/12/23 10:05	Groundwater	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
1,1,2-Trichloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	07/18/23 03:57	VOA6_441608	Y071719.D
1,1-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	07/18/23 03:57	VOA6_441608	Y071719.D
1,2-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	07/18/23 03:57	VOA6_441608	Y071719.D
cis-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	07/18/23 03:57	VOA6_441608	Y071719.D
Methylene chloride	ug/L	2.0	U	0.40	2.0	2.0	1	07/18/23 03:57	VOA6_441608	Y071719.D
Trichloroethene	ug/L	0.88	J	0.20	1.0	1.0	1	07/18/23 03:57	VOA6_441608	Y071719.D
Vinyl chloride	ug/L	1.0	U	0.20	1.0	1.0	1	07/18/23 03:57	VOA6_441608	Y071719.D

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP Site 16

Workorder **HS23070546**

Volatiles by EPA 8260

HS23070546-08

16WW56-230711

Collected	Received	Matrix	Basis
07/11/23 12:45	07/12/23 10:05	Groundwater	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
1,1,2-Trichloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	07/18/23 04:18	VOA6_441608	Y071720.D
1,1-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	07/18/23 04:18	VOA6_441608	Y071720.D
1,2-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	07/18/23 04:18	VOA6_441608	Y071720.D
cis-1,2-Dichloroethene	ug/L	2.4		0.20	1.0	1.0	1	07/18/23 04:18	VOA6_441608	Y071720.D
Methylene chloride	ug/L	2.0	U	0.40	2.0	2.0	1	07/18/23 04:18	VOA6_441608	Y071720.D
Trichloroethene	ug/L	19		0.20	1.0	1.0	1	07/18/23 04:18	VOA6_441608	Y071720.D
Vinyl chloride	ug/L	1.0	U	0.20	1.0	1.0	1	07/18/23 04:18	VOA6_441608	Y071720.D

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP Site 16

Workorder **HS23070546**

Volatiles by EPA 8260

HS23070546-09

Trip Blank - 230711

Collected	Received	Matrix	Basis
07/11/23 00:00	07/12/23 10:05	Water	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
1,1,2-Trichloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	07/18/23 00:12	VOA6_441608	Y071708.D
1,1-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	07/18/23 00:12	VOA6_441608	Y071708.D
1,2-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	07/18/23 00:12	VOA6_441608	Y071708.D
cis-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	07/18/23 00:12	VOA6_441608	Y071708.D
Methylene chloride	ug/L	2.0	U	0.40	2.0	2.0	1	07/18/23 00:12	VOA6_441608	Y071708.D
Trichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	07/18/23 00:12	VOA6_441608	Y071708.D
Vinyl chloride	ug/L	1.0	U	0.20	1.0	1.0	1	07/18/23 00:12	VOA6_441608	Y071708.D

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP Site 16

Workorder **HS23070546**

Volatiles by EPA 8260

VBLKW-230714	Collected	Received	Matrix	Basis
VBLKW-230714	NA	NA	Aqueous	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
1,1,2-Trichloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	07/14/23 19:10	VOA6_441458	Y071407.D
1,1-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	07/14/23 19:10	VOA6_441458	Y071407.D
1,2-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	07/14/23 19:10	VOA6_441458	Y071407.D
cis-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	07/14/23 19:10	VOA6_441458	Y071407.D
Methylene chloride	ug/L	2.0	U	0.40	2.0	2.0	1	07/14/23 19:10	VOA6_441458	Y071407.D
Trichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	07/14/23 19:10	VOA6_441458	Y071407.D
Vinyl chloride	ug/L	1.0	U	0.20	1.0	1.0	1	07/14/23 19:10	VOA6_441458	Y071407.D

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP Site 16

Workorder **HS23070546**

Volatiles by EPA 8260

VBLKW-230717	Collected	Received	Matrix	Basis
VBLKW-230717	NA	NA	Aqueous	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
1,1,2-Trichloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	07/17/23 23:51	VOA6_441608	Y071707.D
1,1-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	07/17/23 23:51	VOA6_441608	Y071707.D
1,2-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	07/17/23 23:51	VOA6_441608	Y071707.D
cis-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	07/17/23 23:51	VOA6_441608	Y071707.D
Methylene chloride	ug/L	2.0	U	0.40	2.0	2.0	1	07/17/23 23:51	VOA6_441608	Y071707.D
Trichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	07/17/23 23:51	VOA6_441608	Y071707.D
Vinyl chloride	ug/L	1.0	U	0.20	1.0	1.0	1	07/17/23 23:51	VOA6_441608	Y071707.D

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Form 2

System Monitoring Compound Recovery

Volatiles by EPA 8260

Workorder

HS23070546

Client

Bhate Environmental Associates, Inc.

Project

LHAAP Site 16

07/25/2023

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Form 2 - System Monitoring Compound Recovery

Client: Bhate Environmental Associates, Inc.

Project: LHAAP Site 16

Workorder: HS23070546

RunID: VOA6-441458

Volatiles by EPA 8260

CCB-CCB	Analyzed	Conc Units	Dilution
CCB	07/14/23	%REC	1

Surrogate	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	52.54	50	105		80-120
4-Bromofluorobenzene	47.78	50	95.6		80-120
Dibromofluoromethane	52.42	50	105		80-120
Toluene-d8	52.46	50	105		80-120

CCV-CCV	Analyzed	Conc Units	Dilution
CCV	07/14/23	%REC	1

Surrogate	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	50.88	50	102		80-120
4-Bromofluorobenzene	52.14	50	104		80-120
Dibromofluoromethane	51.82	50	104		80-120
Toluene-d8	48.02	50	96.0		80-120

HS23070451-04MS	Analyzed	Conc Units	Dilution
BatchQC	07/14/23	%REC	1

Surrogate	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	53.09	50	106		81-118
4-Bromofluorobenzene	48.44	50	96.9		85-114
Dibromofluoromethane	52.53	50	105		80-119
Toluene-d8	51.26	50	103		89-112

Form 2 - System Monitoring Compound Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP Site 16

Workorder HS23070546

RunID VOA6-441458

Volatiles by EPA 8260

HS23070451-04MSD	Analyzed	Conc Units	Dilution
BatchQC	07/14/23	%REC	1

Surrogate	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	53.61	50	107		81-118
4-Bromofluorobenzene	48.71	50	97.4		85-114
Dibromofluoromethane	53.95	50	108		80-119
Toluene-d8	51.24	50	102		89-112

HS23070546-01	Analyzed	Conc Units	Dilution
16WW58-230711	07/15/23	%REC	50

Surrogate	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	2500	2500	101		81-118
4-Bromofluorobenzene	2400	2500	95.1		85-114
Dibromofluoromethane	2600	2500	104		80-119
Toluene-d8	2600	2500	102		89-112

HS23070546-02	Analyzed	Conc Units	Dilution
16WW57-230711	07/15/23	%REC	5

Surrogate	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	260	250	105		81-118
4-Bromofluorobenzene	230	250	90.3		85-114
Dibromofluoromethane	260	250	106		80-119
Toluene-d8	250	250	100		89-112

Form 2 - System Monitoring Compound Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP Site 16

Workorder HS23070546

RunID VOA6-441458

Volatiles by EPA 8260

VBLKW-230714	Analyzed	Conc Units	Dilution
VBLKW-230714	07/14/23	%REC	1

Surrogate	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	51.92	50	104		81-118
4-Bromofluorobenzene	45.83	50	91.7		85-114
Dibromofluoromethane	51.38	50	103		80-119
Toluene-d8	50.91	50	102		89-112

VLCSW-230714	Analyzed	Conc Units	Dilution
VLCSW-230714	07/14/23	%REC	1

Surrogate	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	52.91	50	106		81-118
4-Bromofluorobenzene	50.67	50	101		85-114
Dibromofluoromethane	53.75	50	107		80-119
Toluene-d8	46.79	50	93.6		89-112

Form 2 - System Monitoring Compound Recovery

Client: Bhate Environmental Associates, Inc.

Project: LHAAP Site 16

Workorder: HS23070546

RunID: VOA6-441608

Volatiles by EPA 8260

CCB-CCB	Analyzed	Conc Units	Dilution
CCB	07/17/23	%REC	1

Surrogate	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	51.35	50	103		80-120
4-Bromofluorobenzene	47.41	50	94.8		80-120
Dibromofluoromethane	52.2	50	104		80-120
Toluene-d8	52.45	50	105		80-120

CCV-CCV	Analyzed	Conc Units	Dilution
CCV	07/17/23	%REC	1

Surrogate	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	51.06	50	102		80-120
4-Bromofluorobenzene	50.3	50	101		80-120
Dibromofluoromethane	52.7	50	105		80-120
Toluene-d8	45.84	50	91.7		80-120

HS23070546-03	Analyzed	Conc Units	Dilution
16WW16-230711	07/18/23	%REC	100

Surrogate	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	5300	5000	106		81-118
4-Bromofluorobenzene	4700	5000	94.8		85-114
Dibromofluoromethane	5300	5000	106		80-119
Toluene-d8	5100	5000	103		89-112
1,2-Dichloroethane-d4	53000	50000	106		81-118
4-Bromofluorobenzene	47000	50000	93.7		85-114
Dibromofluoromethane	53000	50000	107		80-119
Toluene-d8	52000	50000	104		89-112

Form 2 - System Monitoring Compound Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP Site 16

Workorder HS23070546

RunID VOA6-441608

Volatiles by EPA 8260

HS23070546-03MS	Analyzed	Conc Units	Dilution
16WW16-230711	07/18/23	%REC	1000

Surrogate	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	53320	50000	107		81-118
4-Bromofluorobenzene	47810	50000	95.6		85-114
Dibromofluoromethane	54610	50000	109		80-119
Toluene-d8	50950	50000	102		89-112

HS23070546-03MSD	Analyzed	Conc Units	Dilution
16WW16-230711	07/18/23	%REC	1000

Surrogate	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	52660	50000	105		81-118
4-Bromofluorobenzene	48880	50000	97.8		85-114
Dibromofluoromethane	54150	50000	108		80-119
Toluene-d8	52270	50000	105		89-112

HS23070546-04	Analyzed	Conc Units	Dilution
16WW34-230711	07/18/23	%REC	1

Surrogate	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	53	50	106		81-118
4-Bromofluorobenzene	47	50	94.2		85-114
Dibromofluoromethane	54	50	108		80-119
Toluene-d8	52	50	104		89-112

Form 2 - System Monitoring Compound Recovery

Client: Bhate Environmental Associates, Inc.

Project: LHAAP Site 16

Workorder: HS23070546

RunID: VOA6-441608

Volatiles by EPA 8260

HS23070546-05	Analyzed	Conc Units	Dilution
16WW33-230711	07/18/23	%REC	1

Surrogate	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	52	50	103		81-118
4-Bromofluorobenzene	47	50	94.3		85-114
Dibromofluoromethane	52	50	105		80-119
Toluene-d8	53	50	106		89-112

HS23070546-06	Analyzed	Conc Units	Dilution
16WW32-230711	07/18/23	%REC	1

Surrogate	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	51	50	102		81-118
4-Bromofluorobenzene	48	50	95.8		85-114
Dibromofluoromethane	51	50	102		80-119
Toluene-d8	52	50	103		89-112

HS23070546-07	Analyzed	Conc Units	Dilution
16WW31-230711	07/18/23	%REC	1

Surrogate	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	55	50	110		81-118
4-Bromofluorobenzene	48	50	96.1		85-114
Dibromofluoromethane	54	50	108		80-119
Toluene-d8	51	50	102		89-112

Form 2 - System Monitoring Compound Recovery

Client: Bhate Environmental Associates, Inc.

Project: LHAAP Site 16

Workorder: HS23070546

RunID: VOA6-441608

Volatiles by EPA 8260

HS23070546-08	Analyzed	Conc Units	Dilution
16WW56-230711	07/18/23	%REC	1

Surrogate	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	51	50	103		81-118
4-Bromofluorobenzene	44	50	88.9		85-114
Dibromofluoromethane	52	50	105		80-119
Toluene-d8	51	50	102		89-112

HS23070546-09	Analyzed	Conc Units	Dilution
Trip Blank - 230711	07/18/23	%REC	1

Surrogate	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	52	50	103		81-118
4-Bromofluorobenzene	46	50	91.8		85-114
Dibromofluoromethane	54	50	109		80-119
Toluene-d8	51	50	101		89-112

VBLKW-230717	Analyzed	Conc Units	Dilution
VBLKW-230717	07/17/23	%REC	1

Surrogate	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	50.08	50	100		81-118
4-Bromofluorobenzene	47.28	50	94.6		85-114
Dibromofluoromethane	52.92	50	106		80-119
Toluene-d8	51.22	50	102		89-112

Form 2 - System Monitoring Compound Recovery

Client	Bhate Environmental Associates, Inc.	Workorder	
Project	LHAAP Site 16	**HS23070546**	

RunID

Volatiles by EPA 8260

VOA6-441608

VLCSW-230717	Analyzed	Conc Units	Dilution
VLCSW-230717	07/17/23	%REC	1

Surrogate	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	52.94	50	106		81-118
4-Bromofluorobenzene	51.07	50	102		85-114
Dibromofluoromethane	54.12	50	108		80-119
Toluene-d8	46.75	50	93.5		89-112

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Form 3A

Matrix Spike/Spike Duplicate Recovery

Volatiles by EPA 8260

Workorder

HS23070546

Client

Bhate Environmental Associates, Inc.

Project

LHAAP Site 16

07/25/2023

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Form 3A - Matrix Spike/Spike Duplicate Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP Site 16

Workorder **HS23070546**

RunID VOA6-441458

Volatiles by EPA 8260

BatchQC (HS23070451-04)				HS23070451-04MS				HS23070451-04MSD						
Sample Matrix: Aqueous			Run Date	07/14/23				07/14/23						
Result Units: ug/L			Run Time	22:14				22:34						
			Data File	Y071416.D				Y071417.D						
Analyte	%R Limits	DF	Sample Result	MS Result	Spike Added	%R	Q	MSD Result	Spike Added	%R	Q	RPD Limit	RPD	Q
1,1,2-Trichloroethane	80-119	1	0	22.17	20	111		23.33	20	117		20	5.1	
1,1-Dichloroethene	71-131	1	0	21.32	20	107		21.69	20	108		20	1.73	
1,2-Dichloroethane	73-128	1	0	22.21	20	111		22.06	20	110		20	0.687	
cis-1,2-Dichloroethene	78-123	1	1.043	21.66	20	103		22.03	20	105		20	1.7	
Methylene chloride	74-124	1	0	21.38	20	107		21.28	20	106		20	0.448	
Trichloroethene	79-123	1	1.757	23.96	20	111		23.91	20	111		20	0.227	
Vinyl chloride	58-137	1	0	20.25	20	101		20.81	20	104		20	2.74	

Q - %Recovery / RPD Flag * - %Recovery / RPD Outside Limits OL - Outside Limits %R - %Recovery DF - Dilution Factor Amt - Amount (weight or volume)

Form 3A - Matrix Spike/Spike Duplicate Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP Site 16

Workorder
HS23070546

RunID
VOA6-441608

Volatiles by EPA 8260

16WW16-230711 (HS23070546-03)				HS23070546-03MS				HS23070546-03MSD						
Sample Matrix Aqueous			**Run Date**	07/18/23				07/18/23						
Result Units ug/L			**Run Time**	01:34				01:54						
			Data File	Y071712.D				Y071713.D						
Analyte	%R Limits	DF	Sample Result	MS Result	Spike Added	%R	Q	MSD Result	Spike Added	%R	Q	RPD Limit	RPD	Q
1,1,2-Trichloroethane	80-119	1000	0	23120	20000	116		23870	20000	119		20	3.19	
1,1-Dichloroethene	71-131	1000	0	25230	20000	126		25520	20000	128		20	1.11	
1,2-Dichloroethane	73-128	1000	0	21590	20000	108		21210	20000	106		20	1.78	
cis-1,2-Dichloroethene	78-123	1000	33480	65000	20000	158		59960	20000	132		20	8.06	
Methylene chloride	74-124	1000	0	24290	20000	121		24320	20000	122		20	0.104	
Trichloroethene	79-123	1000	58100	89320	20000	156		84160	20000	130		20	5.95	
Vinyl chloride	58-137	1000	920.1	26810	20000	129		24930	20000	120		20	7.25	

Q - %Recovery / RPD Flag * - %Recovery / RPD Outside Limits OL - Outside Limits %R - %Recovery DF - Dilution Factor Amt - Amount (weight or volume)

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Form 3B

Laboratory Control Sample Recovery

Volatiles by EPA 8260

Workorder

HS23070546

Client

Bhate Environmental Associates, Inc.

Project

LHAAP Site 16

07/25/2023

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Form 3B - Laboratory Control Sample Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP Site 16

Workorder
HS23070546

SAMPLENUM
VLCSW-230714

Volatiles by EPA 8260

VOA6_441458			VLCSW-230714		
Spike Matrix Aqueous		**Run Date**	07/14/23		
Result Units ug/L		**Run Time**	18:29		
		Data File	Y071405.D		
Analyte	**%Recovery Limits**	**Spike Added**	**LCS Result**	**%R**	**Q**
1,1,2-Trichloroethane	80-119	20	20.26	101	
1,1-Dichloroethene	71-131	20	19.86	99	
1,2-Dichloroethane	73-128	20	20.68	103	
cis-1,2-Dichloroethene	78-123	20	20.26	101	
Methylene chloride	74-124	20	21.1	105	
Trichloroethene	79-123	20	20.01	100	
Vinyl chloride	58-137	20	19.72	99	

Q - %Recovery / RPD Flag * - %Recovery / RPD Outside Limits %R - %Recovery DF - Dilution Factor Amt - Amount (weight or volume)

Form 3B - Laboratory Control Sample Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP Site 16

Workorder
HS23070546

SAMPLENUM
VLCSW-230717

Volatiles by EPA 8260

VOA6_441608			VLCSW-230717			
Spike Matrix	Aqueous		**Run Date**	07/17/23		
Result Units	ug/L		**Run Time**	23:10		
			Data File	Y071705.D		
Analyte	%Recovery Limits	Spike Added	LCS Result	%R	Q	
1,1,2-Trichloroethane	80-119	20	19.69	98		
1,1-Dichloroethene	71-131	20	22.44	112		
1,2-Dichloroethane	73-128	20	19.27	96		
cis-1,2-Dichloroethene	78-123	20	20.58	103		
Methylene chloride	74-124	20	23.46	117		
Trichloroethene	79-123	20	19.17	96		
Vinyl chloride	58-137	20	23.33	117		

Q - %Recovery / RPD Flag * - %Recovery / RPD Outside Limits %R - %Recovery DF - Dilution Factor Amt - Amount (weight or volume)

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Form 4

Method Blank Summary

Volatiles by EPA 8260

Workorder

HS23070546

Client

Bhate Environmental Associates, Inc.

Project

LHAAP Site 16

07/25/2023

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Form 4 - Method Blank Summary

Client Bhate Environmental Associates, Inc.

Project LHAAP Site 16

Workorder
HS23070546

Volatiles by EPA 8260

Client Sample ID	Type	Lab Sample ID	File ID	Date Analyzed	Run ID
METHOD BLANK	MBLK	VBLKW-230714	Y071407.D	07/14/23 19:10	VOA6_441458
VLCSW-230714	LCS	VLCSW-230714	Y071405.D	07/14/23 18:29	VOA6_441458
BatchQC	MS	HS23070451-04MS	Y071416.D	07/14/23 22:14	VOA6_441458
BatchQC	MSD	HS23070451-04MSD	Y071417.D	07/14/23 22:34	VOA6_441458
16WW57-230711	SAMP	HS23070546-02	Y071422.D	07/15/23 00:17	VOA6_441458
16WW58-230711	SAMP	HS23070546-01	Y071423.D	07/15/23 00:37	VOA6_441458

Form 4 - Method Blank Summary

Client Bhate Environmental Associates, Inc.

Project LHAAP Site 16

Workorder
HS23070546

Volatiles by EPA 8260

Client Sample ID	Type	Lab Sample ID	File ID	Date Analyzed	Run ID
METHOD BLANK	MBLK	VBLKW-230717	Y071707.D	07/17/23 23:51	VOA6_441608
VLCSW-230717	LCS	VLCSW-230717	Y071705.D	07/17/23 23:10	VOA6_441608
Trip Blank - 230711	SAMP	HS23070546-09	Y071708.D	07/18/23 00:12	VOA6_441608
16WW16-230711	SAMP	HS23070546-03	Y071709.D	07/18/23 00:32	VOA6_441608
16WW16-230711	SAMP	HS23070546-03	Y071710.D	07/18/23 00:53	VOA6_441608
16WW16-230711	MS	HS23070546-03MS	Y071712.D	07/18/23 01:34	VOA6_441608
16WW16-230711	MSD	HS23070546-03MSD	Y071713.D	07/18/23 01:54	VOA6_441608
16WW34-230711	SAMP	HS23070546-04	Y071716.D	07/18/23 02:56	VOA6_441608
16WW33-230711	SAMP	HS23070546-05	Y071717.D	07/18/23 03:16	VOA6_441608
16WW32-230711	SAMP	HS23070546-06	Y071718.D	07/18/23 03:37	VOA6_441608
16WW31-230711	SAMP	HS23070546-07	Y071719.D	07/18/23 03:57	VOA6_441608
16WW56-230711	SAMP	HS23070546-08	Y071720.D	07/18/23 04:18	VOA6_441608

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Form 5

Instrument Performance Check

Volatiles by EPA 8260

Workorder

HS23070546

Client

Bhate Environmental Associates, Inc.

Project

LHAAP Site 16

07/25/2023

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Form 5 - Instrument Performance Check

Client Bhate Environmental Associates, Inc.

Project LHAAP Site 16

Workorder
HS23070546

RunID
VOA6-441456

Volatiles by EPA 8260

Tune File X071401.D 07/14/23 7/14/2023

m / e	Ion Abundance Criterion	%RA
50	15.0 - 40.0% of mass 95	25.9 (25.9)
75	30.0 - 60.0% of mass 95	52 (52)
95	Base peak, 100% RA	100 (100)
96	5.0 - 9.0% of mass 95	5.6 (5.63)
173	Less than 2.0% of mass 174	0.8 (0.926) 1
174	50.0 - 120.0% of mass 95	82.2 (82.2)
175	4.0 - 9.0% of mass 174	5.4 (6.56) 1
176	93.0 - 101.0% of mass 174	79.3 (96.5) 1
177	5.0 - 9.0% of mass 176	4.5 (5.64) 2

%RA - Percent Relative Abundance

This check applies to the following analyses

	Lab Samp ID	Type	Date Analyzed	Lab File ID	Sample ID
1	VSTD000.25	ICAL1	7/14/2023	X071402	VSTD000.25
2	VSTD000.5	ICAL2	7/14/2023	X071403	VSTD000.5
3	VSTD001	ICAL3	7/14/2023	X071404	VSTD001
4	VSTD002	ICAL4	7/14/2023	X071405	VSTD002
5	VSTD005	ICAL5	7/14/2023	X071406	VSTD005
6	VSTD020	ICAL6	7/14/2023	X071407	VSTD020
7	VSTD050	ICAL7	7/14/2023	X071408	VSTD050
8	VSTD100	ICAL8	7/14/2023	X071409	VSTD100
9	VSTD150	ICAL9	7/14/2023	X071410	VSTD150
10	VSTD200	ICAL	7/14/2023	X071411	VSTD200
11	CCV	ICV	7/14/2023	X071413	CCV

Form 5 - Instrument Performance Check

Client Bhate Environmental Associates, Inc.

Project LHAAP Site 16

Workorder
HS23070546

RunID
VOA6-441458

Volatiles by EPA 8260

Tune File Y071401.D 07/14/23 7/14/2023

m / e	Ion Abundance Criterion	%RA
50	15.0 - 40.0% of mass 95	21.6 (21.6)
75	30.0 - 60.0% of mass 95	43.9 (43.9)
95	Base peak, 100% RA	100 (100)
96	5.0 - 9.0% of mass 95	6.3 (6.29)
173	Less than 2.0% of mass 174	1.3 (1.58) 1
174	50.0 - 120.0% of mass 95	81.8 (81.8)
175	4.0 - 9.0% of mass 174	6.4 (7.86) 1
176	93.0 - 101.0% of mass 174	78.5 (96) 1
177	5.0 - 9.0% of mass 176	5.9 (7.48) 2

%RA - Percent Relative Abundance

This check applies to the following analyses

	Lab Samp ID	Type	Date Analyzed	Lab File ID	Sample ID
1	CCV	CCV	7/14/2023	Y071403	CCV
2	CCB	CCB	7/14/2023	Y071404	CCB
3	VLCSW-	LCS	7/14/2023	Y071405	VLCSW-230714
4	VBLKW-	MBLK	7/14/2023	Y071407	VBLKW-230714
5	HS23070451-	MS	7/14/2023	Y071416	ZZZZZZMS
6	HS23070451-	MSD	7/14/2023	Y071417	ZZZZZZMSD
7	HS23070546-	SAMP	7/15/2023	Y071422	16WW57-230711
8	HS23070546-	SAMP	7/15/2023	Y071423	16WW58-230711
9	CCV-END	CCV_EN	7/15/2023	Y071431	CCV-END

Form 5 - Instrument Performance Check

Client Bhate Environmental Associates, Inc.

Project LHAAP Site 16

Workorder
HS23070546

RunID
VOA6-441608

Volatiles by EPA 8260

Tune File Y071701.D 07/17/23 7/17/2023

m / e	Ion Abundance Criterion	%RA
50	15.0 - 40.0% of mass 95	24.1 (24.1)
75	30.0 - 60.0% of mass 95	49.4 (49.4)
95	Base peak, 100% RA	100 (100)
96	5.0 - 9.0% of mass 95	7.5 (7.5)
173	Less than 2.0% of mass 174	0 (0) 1
174	50.0 - 120.0% of mass 95	79.2 (79.2)
175	4.0 - 9.0% of mass 174	6.9 (8.75) 1
176	93.0 - 101.0% of mass 174	78.4 (99) 1
177	5.0 - 9.0% of mass 176	5.2 (6.67) 2

%RA - Percent Relative Abundance

This check applies to the following analyses

	Lab Samp ID	Type	Date Analyzed	Lab File ID	Sample ID
1	CCV	CCV	7/17/2023	Y071703	CCV
2	CCB	CCB	7/17/2023	Y071704	CCB
3	VLCSW-	LCS	7/17/2023	Y071705	VLCSW-230717
4	VBLKW-	MBLK	7/17/2023	Y071707	VBLKW-230717
5	HS23070546-	SAMP	7/18/2023	Y071708	Trip Blank - 230711
6	HS23070546-	SAMP	7/18/2023	Y071709	16WW16-230711
7	HS23070546-	SAMP	7/18/2023	Y071710	16WW16-230711
8	HS23070546-	MS	7/18/2023	Y071712	HS23070546-03MS
9	HS23070546-	MSD	7/18/2023	Y071713	HS23070546-03MSD
10	HS23070546-	SAMP	7/18/2023	Y071716	16WW34-230711
11	HS23070546-	SAMP	7/18/2023	Y071717	16WW33-230711
12	HS23070546-	SAMP	7/18/2023	Y071718	16WW32-230711
13	HS23070546-	SAMP	7/18/2023	Y071719	16WW31-230711
14	HS23070546-	SAMP	7/18/2023	Y071720	16WW56-230711
15	CCV-END	CCV_EN	7/18/2023	Y071731	CCV-END

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Form 6

Initial Calibration Data

Volatiles by EPA 8260

Workorder

HS23070546

Client

Bhate Environmental Associates, Inc.

Project

LHAAP Site 16

07/25/2023

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Initial Calibration Data

Client Bhate Environmental Associates, Inc.

Project LHAAP Site 16

Workorder HS23070546

RunID VOA6_441456

Volatiles by EPA 8260

Compound	50.00 Level 7 0.250 Level 1	100.00 Level 8 0.500 Level 2	150.00 Level 9 1.00 Level 3	200.00 Level 10 2.00 Level 4	5.00 Level 5	20.00 Level 6	Curve	b	m1	m2	%RSD or R2	Q
Dichlorodifluoromethane	NE 235300	1663 576963	3668 822037	9210 1105119	21541	94710	LINR	0.02191	0.52294		0.99807	
Chloromethane	NE 0.67753	0.84001 0.79824	0.66306 0.81227	0.83928 0.82447	0.68468	0.65730	AVRG		0.75520		10.80318	
Propionitrile	NE 0.09423	0.10390 0.10017	0.09941 0.10114	0.09874 0.09819	0.09448	0.10115	AVRG		0.09905		3.16658	
Vinyl Chloride	NE 0.60823	0.69203 0.70202	0.53140 0.67183	0.72188 0.65918	0.61204	0.62458	AVRG		0.64702		9.14675	
Bromomethane	NE 0.25218	0.27789 0.28534	0.24476 0.29658	0.27563 0.28725	0.25296	0.23720	AVRG		0.26775		7.93201	
Chloroethane	NE 0.34475	0.43063 0.37168	0.35796 0.36290	0.40526 0.34794	0.34800	0.35515	AVRG		0.36936		7.97570	
Trichlorofluoromethane	NE 0.60292	0.58636 0.75016	0.55773 0.71606	0.73670 0.70274	0.59809	0.65059	AVRG		0.65570		11.03396	
Acrolein	NE 19251	268 38657	510 60619	917 82636	2341	6957	LINR	0.02257	0.01915		0.99956	
Acetone	NE 210033	7150 413238	8098 616513	15631 806431	26152	92232	LINR	-0.09778	0.18861		0.99933	
1,1-Dichloroethene	NE 0.35132	0.34284 0.39971	0.33390 0.37449	0.40741 0.37144	0.35652	0.35911	AVRG		0.36630		6.73637	

NE - Not Evaluated, AVRG - Averaged, LINR - Linear Regression, WLIN - Weighted Linear, QUAD - Quadratic, * - Curve Fit Outside Limits

Initial Calibration Data

Client Bhate Environmental Associates, Inc.
Project LHAAP Site 16

Workorder HS23070546

RunID VOA6_441456

Volatiles by EPA 8260

ICAL Summary Page 2 / 12

Compound	50.00 Level 7 0.250 Level 1	100.00 Level 8 0.500 Level 2	150.00 Level 9 1.00 Level 3	200.00 Level 10 2.00 Level 4	5.00 Level 5	20.00 Level 6	Curve	b	m1	m2	%RSD or R2	Q
Isobutyl Alcohol	NE 0.09486	0.09915 0.10064	0.08022 0.09926	0.09038 0.09480	0.09479	0.09891	AVRG		0.09478		6.69321	
Acetonitrile	NE 0.06830	0.07163 0.06960	0.07422 0.07051	0.07419 0.06805	0.06612	0.06841	AVRG		0.07011		3.98876	
Allyl Chloride	NE 1.52604	1.95513 1.56199	1.82721 1.56589	1.62093 1.51692	1.61860	1.58159	AVRG		1.64159		9.09372	
Iodomethane	NE 473625	2897 1101288	4792 1666204	11682 2365259	29645	147770	QUAD	0.07604	2.04557	-0.05646	0.99916	
Acrylonitrile	NE 0.22535	0.30341 0.23200	0.22558 0.23458	0.25182 0.22663	0.25615	0.23734	AVRG		0.24365		10.26343	
Methylene Chloride	NE 228969	3115 461890	7389 679924	11880 893552	25734	93705	LINR	-0.02821	0.42039		0.99928	
Methyl tert-butyl ether	NE 1.28013	1.42757 1.32509	1.50562 1.32040	1.44539 1.27025	1.34304	1.34355	AVRG		1.36234		5.84889	
Carbon Disulfide	NE 1.09141	1.19715 1.22733	1.02400 1.19261	1.26579 1.18678	1.08532	1.09253	AVRG		1.15144		6.97191	
trans-1,2-Dichloroethene	NE 0.40397	0.50790 0.43050	0.34716 0.41204	0.45461 0.41226	0.43607	0.40889	AVRG		0.42371		10.21222	
Vinyl Acetate	NE 1.67574	1.80993 1.76700	1.71245 1.76631	1.79630 1.74491	1.73508	1.76334	AVRG		1.75234		2.35224	
1,1-Dichloroethane	NE 0.89937	1.04282 0.93166	0.87723 0.90417	1.03426 0.88702	0.90313	0.88859	AVRG		0.92980		6.83106	
Chloroprene	NE 0.19474	0.25663 0.23640	0.22753 0.23331	0.21787 0.23204	0.21758	0.20725	AVRG		0.22482		8.00705	

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Initial Calibration Data

Client Bhate Environmental Associates, Inc.

Project LHAAP Site 16

Workorder HS23070546

RunID VOA6_441456

Volatiles by EPA 8260

ICAL Summary Page 3 / 12

Compound	50.00 Level 7 0.250 Level 1	100.00 Level 8 0.500 Level 2	150.00 Level 9 1.00 Level 3	200.00 Level 10 2.00 Level 4	5.00 Level 5	20.00 Level 6	Curve	b	m1	m2	%RSD or R2	Q
2-Butanone	NE 0.25660	0.28077 0.28522	0.26281 0.27741	0.24974 0.28148	0.24863	0.25377	AVRG		0.26627		5.58805	
Methacrylonitrile	NE 0.62768	0.71944 0.66925	0.58681 0.67273	0.61854 0.65439	0.59811	0.66152	AVRG		0.64539		6.44560	
2,2-Dichloropropane	NE 357279	3703 797830	7001 1150093	15882 1535535	34523	136770	LINR	0.00416	0.72480		0.99899	
cis-1,2-Dichloroethene	NE 0.52561	0.58080 0.55258	0.55205 0.52870	0.55103 0.51702	0.52518	0.52498	AVRG		0.53977		3.81784	
Chloroform	NE 0.90021	1.12088 0.94131	0.94789 0.91371	1.04563 0.88871	0.89046	0.91369	AVRG		0.95139		8.37790	
Bromochloromethane	NE 0.28615	0.34105 0.29492	0.28436 0.28865	0.36073 0.28298	0.29741	0.28625	AVRG		0.30250		9.34540	
1,1,1-Trichloroethane	NE 0.70136	0.76811 0.80905	0.60604 0.78046	0.76445 0.77179	0.67544	0.71465	AVRG		0.73237		8.70697	
1,1-Dichloropropene	NE 0.37472	0.46667 0.45240	0.37410 0.42446	0.41961 0.42714	0.34598	0.38546	AVRG		0.40784		9.80634	
1,2-Dichloroethane	NE 0.52114	0.65388 0.55719	0.55646 0.54137	0.52020 0.54393	0.51464	0.54481	AVRG		0.55040		7.59848	
Carbon Tetrachloride	NE 0.35583	0.45034 0.44940	0.42963 0.42389	0.40208 0.42272	0.37338	0.39061	AVRG		0.41088		7.99245	
Benzene	NE 1.14556	1.30726 1.25702	1.13102 1.18986	1.22322 1.19963	1.12620	1.18395	AVRG		1.19597		5.00630	
Trichloroethene	NE 0.32325	0.36259 0.36148	0.29151 0.34333	0.38072 0.34832	0.30457	0.32879	AVRG		0.33829		8.55214	

NE - Not Evaluated, AVRG - Averaged, LINR - Linear Regression, WLIN - Weighted Linear, QUAD - Quadratic, * - Curve Fit Outside Limits

Initial Calibration Data

Client Bhate Environmental Associates, Inc.

Project LHAAP Site 16

Workorder HS23070546

RunID VOA6_441456

Volatiles by EPA 8260

ICAL Summary Page 4 / 12

Compound	50.00 Level 7 0.250 Level 1	100.00 Level 8 0.500 Level 2	150.00 Level 9 1.00 Level 3	200.00 Level 10 2.00 Level 4	5.00 Level 5	20.00 Level 6	Curve	b	m1	m2	%RSD or R2	Q
Bromodichloromethane	NE 0.43234	0.56576 0.45884	0.42748 0.45203	0.45204 0.46018	0.42979	0.44442	AVRG		0.45810		9.21563	
Methyl Methacrylate	NE 0.55557	0.64774 0.60054	0.67348 0.60150	0.61013 0.58254	0.58540	0.57437	AVRG		0.60347		6.09532	
2-Chloroethylvinyl ether	NE 0.13958	0.13748 0.15371	0.12812 0.14777	0.12943 0.15040	0.13129	0.14103	AVRG		0.13987		6.65248	
1,2-Dichloropropane	NE 0.37714	0.43289 0.40397	0.31618 0.38726	0.39071 0.39014	0.37483	0.38801	AVRG		0.38457		8.02856	
2-Nitropropane	NE 0.18456	0.23319 0.19499	0.19456 0.20657	0.22145 0.20342	0.16115	0.18784	AVRG		0.19864		10.60581	
Dibromomethane	NE 0.20339	0.24779 0.21844	0.21543 0.20650	0.23770 0.20862	0.20762	0.21371	AVRG		0.21769		6.96902	
4-Methyl-2-Pentanone	NE 0.46063	0.58655 0.48903	0.46075 0.48195	0.49135 0.48645	0.48596	0.48555	AVRG		0.49202		7.57687	
cis-1,3-Dichloropropene	NE 0.51175	0.61537 0.55605	0.45166 0.53397	0.53404 0.54067	0.47196	0.51998	AVRG		0.52616		8.99460	
Ethyl Methacrylate	NE 0.26930	0.34651 0.30905	0.35275 0.33292	0.35012 0.34232	0.32495	0.31920	AVRG		0.32746		8.05273	
Toluene	NE 1.35355	1.36539 1.44404	1.14100 1.39074	1.37686 1.39027	1.31689	1.33460	AVRG		1.34593		6.32428	
trans-1,3-Dichloropropene	NE 0.42358	0.49608 0.46734	0.38674 0.45302	0.44837 0.46834	0.41009	0.43827	AVRG		0.44354		7.48885	
2-Hexanone	NE 0.30067	0.30395 0.32110	0.33705 0.32372	0.32917 0.32526	0.33286	0.33513	AVRG		0.32321		4.01955	

NE - Not Evaluated, AVRG - Averaged, LINR - Linear Regression, WLIN - Weighted Linear, QUAD - Quadratic, * - Curve Fit Outside Limits

Initial Calibration Data

Client Bhate Environmental Associates, Inc.

Project LHAAP Site 16

Workorder HS23070546

RunID VOA6_441456

Volatiles by EPA 8260

ICAL Summary Page 5 / 12

Compound	50.00 Level 7 0.250 Level 1	100.00 Level 8 0.500 Level 2	150.00 Level 9 1.00 Level 3	200.00 Level 10 2.00 Level 4	5.00 Level 5	20.00 Level 6	Curve	b	m1	m2	%RSD or R2	Q
1,1,2-Trichloroethane	NE 0.27496	0.30232 0.28103	0.28933 0.27111	0.30515 0.27281	0.28408	0.28886	AVRG		0.28552		4.28271	
1,3-Dichloropropane	NE 0.56268	0.68555 0.57784	0.56076 0.55478	0.58546 0.55874	0.58510	0.57884	AVRG		0.58331		6.87413	
Dibromochloromethane	NE 0.40608	0.42594 0.43396	0.39216 0.42165	0.41047 0.42582	0.38971	0.40387	AVRG		0.41218		3.79175	
Tetrachloroethene	NE 0.26863	0.24343 0.31076	0.22414 0.29395	0.32780 0.29098	0.27159	0.27129	AVRG		0.27806		11.54647	
1,2-Dibromoethane	NE 0.30967	0.35535 0.31558	0.31873 0.30475	0.33131 0.31110	0.34997	0.33995	AVRG		0.32627		5.69357	
1-Chlorohexane	NE 0.33296	0.43114 0.42814	0.40883 0.40776	0.43814 0.41598	0.36414	0.38805	AVRG		0.40168		8.58201	
Chlorobenzene	NE 0.90189	1.07531 0.96048	0.86917 0.93481	0.96582 0.94343	0.89774	0.91892	AVRG		0.94084		6.30233	
1,1,1,2-Tetrachloroethane	NE 0.36189	0.40907 0.38531	0.32801 0.37705	0.36574 0.37837	0.34420	0.36531	AVRG		0.36833		6.36041	
Ethylbenzene	NE 0.45381	0.53160 0.50085	0.40783 0.48317	0.49648 0.48539	0.44109	0.44588	AVRG		0.47179		7.99221	
m,p-Xylenes	NE 0.58355	0.58138 0.63520	0.51291 0.61039	0.66213 0.61758	0.54279	0.58097	AVRG		0.59188		7.73323	
o-Xylene	NE 0.54985	0.60028 0.59157	0.50413 0.57426	0.58077 0.58210	0.50944	0.55204	AVRG		0.56049		6.17548	
Styrene	NE 0.97719	1.10605 1.02091	0.86982 0.99759	0.96217 1.01131	0.89239	0.96159	AVRG		0.97767		7.16726	

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Initial Calibration Data

Client Bhate Environmental Associates, Inc.

Project LHAAP Site 16

Workorder HS23070546

RunID VOA6_441456

Volatiles by EPA 8260

ICAL Summary Page 6 / 12

Compound	50.00 Level 7 0.250 Level 1	100.00 Level 8 0.500 Level 2	150.00 Level 9 1.00 Level 3	200.00 Level 10 2.00 Level 4	5.00 Level 5	20.00 Level 6	Curve	b	m1	m2	%RSD or R2	Q
Bromoform	NE 0.26395	0.26832 0.27994	0.21153 0.27771	0.29273 0.28394	0.24404	0.25796	AVRG		0.26446		9.32941	
Isopropylbenzene	NE 1.36958	1.45474 1.59321	1.15694 1.51601	1.62659 1.55523	1.31430	1.37984	AVRG		1.44071		10.47090	
1,1,2,2-Tetrachloroethane	NE 0.78472	0.94445 0.81779	0.83194 0.80619	0.90896 0.80829	0.84185	0.81425	AVRG		0.83983		6.25761	
1,2,3-Trichloropropane	NE 0.62245	0.70743 0.65589	0.66768 0.64581	0.66994 0.64574	0.70648	0.67647	AVRG		0.66643		4.21060	
trans-1,4-Dichloro-2-butene	NE 0.15148	0.15286 0.16770	0.12745 0.16789	0.14444 0.16922	0.13548	0.15209	AVRG		0.15207		9.66771	
n-Propylbenzene	NE 2.91361	2.94838 3.40683	2.53997 3.24372	3.16964 3.29645	2.67171	3.00288	AVRG		3.02147		9.55626	
Bromobenzene	NE 0.73926	0.82736 0.79512	0.75995 0.76647	0.82086 0.78754	0.76608	0.77520	AVRG		0.78198		3.67998	
1,3,5-Trimethylbenzene	NE 2.12204	2.47615 2.50410	1.87986 2.44372	2.39387 2.46514	1.97150	2.11509	AVRG		2.26350		10.68239	
2-Chlorotoluene	NE 1.91345	2.19364 2.08147	2.04515 2.01122	2.15846 2.03095	1.86416	2.04541	AVRG		2.03821		5.12320	
4-Chlorotoluene	NE 2.19714	2.25128 2.40271	1.82096 2.33521	2.37563 2.37480	2.11635	2.28352	AVRG		2.23973		8.15437	
tert-Butylbenzene	NE 1.75584	2.09594 2.12022	1.61179 2.04664	2.20774 2.05649	1.74066	1.83461	AVRG		1.94110		10.71222	
1,2,4-Trimethylbenzene	NE 2.11967	2.62916 2.46832	1.84573 2.41069	2.42858 2.45093	1.92871	2.14683	AVRG		2.26985		11.86510	

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Initial Calibration Data

Client Bhate Environmental Associates, Inc.
Project LHAAP Site 16

Workorder HS23070546

RunID VOA6_441456

Volatiles by EPA 8260

ICAL Summary Page 7 / 12

Compound	50.00 Level 7 0.250 Level 1	100.00 Level 8 0.500 Level 2	150.00 Level 9 1.00 Level 3	200.00 Level 10 2.00 Level 4	5.00 Level 5	20.00 Level 6	Curve	b	m1	m2	%RSD or R2	Q
sec-Butylbenzene	NE 2.38650	2.39008 2.98896	2.08647 2.87301	2.89395 2.88374	2.26832	2.51515	AVRG		2.58735		12.68595	
p-Isopropyltoluene	NE 2.17688	2.52552 2.69684	1.93671 2.58444	2.48463 2.61384	2.04517	2.20747	AVRG		2.36350		11.64663	
1,3-Dichlorobenzene	NE 1.28863	1.54565 1.44980	1.17676 1.41160	1.40461 1.40967	1.24164	1.33205	AVRG		1.36227		8.33210	
1,4-Dichlorobenzene	NE 1.38557	1.65292 1.53566	1.32318 1.45287	1.69562 1.48161	1.44532	1.46978	AVRG		1.49361		7.97047	
Benzyl Chloride	NE 558112	6245 1321247	10259 2041719	17851 2751633	45616	196200	LINR	0.04694	0.89268		0.99874	
n-Butylbenzene	NE 1.83535	1.84574 2.37633	1.70944 2.27255	1.96808 2.30080	1.70778	1.79924	AVRG		1.97948		13.42128	
1,2-Dichlorobenzene	NE 1.27471	1.35749 1.42525	1.25645 1.37391	1.38320 1.38665	1.26217	1.33374	AVRG		1.33929		4.58000	
1,2-Dibromo-3-Chloropropane	NE 51434	675 119154	831 181917	1953 242707	5268	19568	LINR	0.02176	0.14112		0.99931	
1,2,4-Trichlorobenzene	NE 0.80524	1.05947 0.97476	0.91279 0.95753	0.94981 0.97711	0.85502	0.78698	AVRG		0.91986		9.65852	
Hexachlorobutadiene	NE 139894	1357 382401	2109 564457	6844 760294	13714	52647	LINR	0.04709	0.44481		0.99698	
Naphthalene	NE 2.02307	2.67698 2.35582	2.32669 2.27389	2.26771 2.32875	2.16067	2.07687	AVRG		2.27672		8.35550	
1,2,3-Trichlorobenzene	NE 0.74794	0.99382 0.88744	0.89482 0.86237	0.93334 0.87314	0.76923	0.78029	AVRG		0.86027		9.42402	

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Initial Calibration Data

Client Bhate Environmental Associates, Inc.
Project LHAAP Site 16

Workorder HS23070546

RunID VOA6_441456

Volatiles by EPA 8260

Compound	50.00 Level 7 0.250 Level 1	100.00 Level 8 0.500 Level 2	150.00 Level 9 1.00 Level 3	200.00 Level 10 2.00 Level 4	5.00 Level 5	20.00 Level 6	Curve	b	m1	m2	%RSD or R2	Q
Ethyl Acetate	NE 0.70402	0.85233 0.73854	0.68267 0.71854	0.73966 0.71045	0.76533	0.77227	AVRG		0.74265		6.75864	
Methyl Acrylate	NE 0.62114	0.66840 0.77600	0.54731 0.78843	0.64052 0.76129	0.64695	0.66691	AVRG		0.67966		11.81743	
n-Butanol	NE 0.01560	0.01615 0.01818	0.01470 0.01945	0.01778 0.01980	0.01318	0.01496	AVRG		0.01664		13.67270	
Ethyl Acrylate	NE 1.56849	1.63514 1.70663	1.72358 1.77502	1.50263 1.75049	1.60242	1.64950	AVRG		1.65710		5.42882	
Cyclohexanone	NE 0.03949	0.05394 0.03979	0.05115 0.03982	0.04786 0.03661	0.04626	0.04568	AVRG		0.04451		13.30149	
1,4-Dioxane	0.00529 0.00540	0.00687 0.00595	0.00611 0.00600	0.00555 0.00602	0.00636	0.00586	AVRG		0.00594		7.82889	
n-Hexane	NE 244351	2320 700280	5000 NE	11984 NE	26276	106667	QUAD	-0.01727	2.41947	-0.68015	0.99837	
Freon TF	NE 154547	1274 422615	2818 NE	7195 NE	16656	67796	QUAD	-0.01499	3.77998	-1.58677	0.99832	
Methyl Acetate	NE 0.42203	0.46559 0.43221	0.47286 0.43028	0.45346 0.42016	0.45829	0.45001	AVRG		0.44499		4.35037	
Methylcyclohexane	NE 0.98734	1.14273 1.10411	0.96842 1.12748	0.95973 1.14019	1.03867	1.02958	AVRG		1.05536		7.08148	
Isopropyl alcohol	NE 0.03536	0.04517 0.03638	0.04439 0.03714	0.04149 0.03689	0.03687	0.03873	AVRG		0.03916		9.28018	
Amyl alcohol	NE 0.01277	0.01442 0.01513	0.01288 0.01573	0.01448 0.01580	0.01462	0.01358	AVRG		0.01438		7.75370	

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Compound	50.00 Level 7 0.250 Level 1	100.00 Level 8 0.500 Level 2	150.00 Level 9 1.00 Level 3	200.00 Level 10 2.00 Level 4	5.00 Level 5	20.00 Level 6	Curve	b	m1	m2	%RSD or R2	Q
Allyl alcohol	NE 244351	2068 700280	5000 NE	14314 NE	26276	106667	QUAD	-0.39232	48.54112	-13.69022	0.99834	
4-Methyl-2-pentanol	NE 0.08687	0.12600 0.10145	0.10791 0.10473	0.11127 0.10925	0.11234	0.10455	AVRG		0.10715		9.67860	
Tert-butyl alcohol	NE 0.05636	0.07802 0.05963	0.06140 0.05977	0.06995 0.05928	0.06161	0.06194	AVRG		0.06311		10.61812	
Diethyl ether	NE 0.43908	0.51744 0.44851	0.49360 0.44689	0.51199 0.43020	0.45058	0.45793	AVRG		0.46625		6.99240	
1,3-Butadiene	NE 0.58528	0.63622 0.71010	0.57213 0.67222	0.73345 0.66543	0.59805	0.60945	AVRG		0.64248		8.80211	
Cyclohexane	NE 0.73558	0.85829 1.03245	0.72681 0.97434	0.92986 0.96744	0.75844	0.81693	AVRG		0.86668		13.16994	
Tetrahydrofuran	NE 0.12218	0.14083 0.12495	0.13332 0.12609	0.13514 0.12108	0.12274	0.13136	AVRG		0.12863		5.31484	
alpha-Methylstyrene	NE 1.02454	1.23006 1.16376	0.99517 1.14646	1.09377 1.14475	0.99115	1.02796	AVRG		1.09085		7.81543	
Diisopropyl ether	NE 1.95747	2.14800 2.03902	2.34506 2.05555	2.06794 1.95720	1.91324	2.06344	AVRG		2.06077		6.23686	
Dichlorofluoromethane	NE 0.76153	0.85332 0.78724	0.92289 0.78703	0.84028 0.76192	0.75366	0.78256	AVRG		0.80560		6.93852	
Propylene oxide	NE 0.05692	0.06108 0.05582	0.06673 0.05455	0.06684 0.04985	0.07410	0.06618	AVRG		0.06134		12.54653	
3-Methyl-1-butanol	NE 0.01195	0.01323 0.01394	0.01183 0.01419	0.00888 0.01408	0.01158	0.01110	AVRG		0.01231		14.14320	

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Project LHAAP Site 16

Workorder HS23070546

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Volatiles by EPA 8260

Compound	50.00 Level 7 / 0.250 Level 1	100.00 Level 8 / 0.500 Level 2	150.00 Level 9 / 1.00 Level 3	200.00 Level 10 / 2.00 Level 4	5.00 Level 5	20.00 Level 6	Curve	b	m1	m2	%RSD or R2	Q
Butyl acrylate	NE 0.95529	0.92245 1.02517	0.88753 1.04707	0.86138 1.05297	0.86060	0.94857	AVRG		0.95123		7.98920	
Butyl methacrylate	NE 1.15197	1.22102 1.29239	1.20704 1.21819	1.20789 1.18934	1.13145	1.15942	AVRG		1.19763		3.97564	
Dicyclopentadiene	NE 2.75252	2.80389 2.95979	3.12078 3.02021	2.84202 2.97202	2.58546	2.86391	AVRG		2.88007		5.53053	
1,2,3-Trimethylbenzene	NE 2.26318	2.33141 2.44349	2.44039 2.48171	2.00963 2.47220	2.11668	2.24288	AVRG		2.31129		7.26158	
Ethanol	NE 72445	1082 150451	1613 220615	3219 291912	7997	30252	LINR	-0.37330	0.00686		0.99938	
tert-Butyl formate	NE 0.46269	0.60414 0.51460	0.54120 0.53820	0.56992 0.54329	0.53335	0.49959	AVRG		0.53411		7.55066	
3,3-Dimethyl-1-butanol	NE 0.04382	0.07070 0.04890	0.05527 0.05244	0.05594 0.05101	0.05364	0.05224	AVRG		0.05377		13.60012	
tert-Amyl methyl ether	NE 1.60911	1.86257 1.58140	1.86766 1.64949	1.49761 1.54826	1.62072	1.56664	AVRG		1.64483		8.04479	
tert-Butyl ethyl ether	NE 1.97744	2.48449 2.04789	2.24930 2.06704	2.05003 2.01150	2.12663	2.03642	AVRG		2.11675		7.49756	
tert-Amyl alcohol	NE 0.04627	0.06041 0.05146	0.05141 0.05382	0.06972 0.05433	0.05333	0.05084	AVRG		0.05462		12.42201	
Epichlorohydrin	NE 0.03559	0.03842 0.03914	0.03655 0.03819	0.03704 0.03863	0.03577	0.03679	AVRG		0.03735		3.45493	
Isoprene	NE 0.14969	0.16745 0.17829	0.14351 0.17017	0.16283 0.16423	0.17487	0.17231	AVRG		0.16482		6.98920	

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Project LHAAP Site 16

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Volatiles by EPA 8260

Compound	50.00 Level 7 0.250 Level 1	100.00 Level 8 0.500 Level 2	150.00 Level 9 1.00 Level 3	200.00 Level 10 2.00 Level 4	5.00 Level 5	20.00 Level 6	Curve	b	m1	m2	%RSD or R2	Q
n-Amyl acetate	NE 0.81039	1.01275 0.90629	1.04196 0.91309	0.90756 0.92294	0.85545	0.87675	AVRG		0.91635		7.88906	
Isopropyl acetate	NE 1.19423	1.44350 1.30224	1.45714 1.26100	1.48440 1.24685	1.21182	1.26381	AVRG		1.31833		8.51827	
n-Butyl acetate	NE 0.73443	0.87010 0.79624	0.63987 0.80262	0.70296 0.81276	0.74526	0.79294	AVRG		0.76635		8.91130	
Acetaldehyde	NE 101552	NE 189053	5117 265471	8114 347350	20987	39093	LINR	-0.45320	0.04030		0.99713	
Methyl Amyl Ketone	NE 0.96318	1.20532 1.04745	0.94521 1.08877	0.97102 1.09326	1.04102	1.05023	AVRG		1.04505		7.72385	
Dimethyl Disulfide	NE 0.69887	0.66624 0.73618	0.61152 0.73656	0.60301 0.73622	0.60088	0.68043	AVRG		0.67444		8.55931	
Isobutylene	NE 0.07008	0.09932 0.08656	0.08288 0.08198	0.07903 0.07923	0.07898	0.08593	AVRG		0.08267		9.56800	
2-Ethylhexyl Acrylate	NE 1.36334	1.09488 1.47049	1.12671 1.45960	1.14640 1.46017	1.06053	1.31158	AVRG		1.27708		13.35344	
94 1,2-Dichloroethylene (total)	NE 0.46479	0.54435 0.49154	0.44960 0.47037	0.50282 0.46464	0.48062	0.46694	AVRG		0.48174		5.88171	
95 Xylenes (total)	NE 0.51459	0.53863 0.58017	0.47900 0.55693	0.57974 0.56971	0.47946	0.52696	AVRG		0.53613		7.35273	
30 Dibromofluoromethane	NE 227290	3536 502644	5859 719790	10131 959895	26145	100577	LINR	-0.01526	0.45137		0.99889	
35 1,2-Dichloroethane-d4	NE 282994	5342 615043	7805 911155	14667 1203985	31653	125030	LINR	-0.01246	0.56601		0.99932	

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Client Bhate Environmental Associates, Inc.

Project LHAAP Site 16

Workorder HS23070546

RunID VOA6_441456

Volatiles by EPA 8260

ICAL Summary Page 12 / 12

Compound	50.00 Level 7 0.250 Level 1	100.00 Level 8 0.500 Level 2	150.00 Level 9 1.00 Level 3	200.00 Level 10 2.00 Level 4	5.00 Level 5	20.00 Level 6	Curve	b	m1	m2	%RSD or R2	Q
48 Toluene-d8	NE 1.07891	1.41149 1.19952	1.42719 NE	1.38594 NE	1.29623	1.21214	AVRG		1.28735		10.10735	
69 4-Bromofluorobenzene	NE 355682	7819 767493	11517 1135204	17835 1538168	40007	153161	LINR	-0.00857	0.49361		0.99967	

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Form 6I

Initial Calibration Verification (ICV)

Volatiles by EPA 8260

Workorder

HS23070546

Client

Bhate Environmental Associates, Inc.

Project

LHAAP Site 16

07/25/2023

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Initial Calibration Verification (ICV)

Client Bhate Environmental Associates, Inc.
Project LHAAP Site 16

Workorder HS23070546

RunID VOA6_441456

Volatiles by EPA 8260

Sample Matrix LIQUID
Lab Smp Id ICV
Level LOW
Fraction VOA
Client Smp ID ICV
Operator PC

Compound	Conc Added	Conc Recovered	% Recovered	Limits	Q
1,1,1,2-Tetrachloroethane	50.00	49.01	98.02	80-120	
1,1,1-Trichloroethane	50.00	46.46	92.93	80-120	
1,1,2,2-Tetrachloroethane	50.00	48.23	96.47	80-120	
Freon TF	50.00	50.73	101.47	80-120	
Methyl acetate	50.00	48.60	97.20	80-120	
Cyclohexane	50.00	43.28	86.57	80-120	
Methylcyclohexane	50.00	47.44	94.90	80-120	
Carbon Disulfide	100.00	92.54	92.54	80-120	
2-Hexanone	100.00	100.41	100.42	80-120	
1,1,2-Trichloroethane	50.00	48.51	97.03	80-120	
1,1-Dichloroethane	50.00	46.83	93.66	80-120	
1,1-Dichloroethene	50.00	45.26	90.53	80-120	
1,1-Dichloropropene	50.00	45.59	91.20	80-120	
1,2,3-Trichlorobenzene	50.00	43.05	86.12	80-120	
1,2,3-Trichloropropane	50.00	48.09	96.20	80-120	
1,2,4-Trichlorobenzene	50.00	43.35	86.72	80-120	
1,2,4-Trimethylbenzene	50.00	44.77	89.55	80-120	
1,2-Dibromo-3-Chloropropane	50.00	48.27	96.54	80-120	
1,2-Dibromoethane	50.00	47.85	95.71	80-120	
Acrolein	100.00	95.33	95.34	80-120	
Acrylonitrile	100.00	96.95	96.95	80-120	
1,2-Dichlorobenzene	50.00	47.75	95.52	80-120	
1,2-Dichloroethane	50.00	47.45	94.92	80-120	
1,2-Dichloropropane	50.00	49.01	98.02	80-120	
1,3,5-Trimethylbenzene	50.00	44.65	89.31	80-120	
1,3-Dichlorobenzene	50.00	46.44	92.88	80-120	
1,3-Dichloropropane	50.00	48.46	96.93	80-120	
1,4-Dichlorobenzene	50.00	45.87	91.75	80-120	
1-Chlorohexane	50.00	40.17	80.36	80-120	
2,2-Dichloropropane	50.00	47.06	94.14	80-120	
2-Butanone	100.00	105.06	105.06	80-120	
2-Chloroethylvinyl ether	100.00	103.48	103.49	80-120	
2-Chlorotoluene	50.00	45.07	90.16	80-120	
4-Chlorotoluene	50.00	47.10	94.21	80-120	

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RunID VOA6_441456

Volatiles by EPA 8260

Sample Matrix LIQUID
Lab Smp Id ICV
Level LOW
Fraction VOA
Client Smp ID ICV
Operator PC

Compound	Conc Added	Conc Recovered	% Recovered	Limits	Q
p-Isopropyltoluene	50.00	42.46	84.92	80-120	
4-Methyl-2-Pentanone	100.00	96.77	96.78	80-120	
Acetone	100.00	109.68	109.69	80-120	
Acetonitrile	500.00	477.86	95.57	80-120	
Allyl Chloride	50.00	46.25	92.52	80-120	
Benzene	50.00	47.17	94.35	80-120	
Bromobenzene	50.00	47.14	94.28	80-120	
Bromochloromethane	50.00	47.57	95.15	80-120	
Bromodichloromethane	50.00	47.04	94.09	80-120	
Bromoform	50.00	50.48	100.97	80-120	
Bromomethane	50.00	52.69	105.40	80-120	
Carbon Tetrachloride	50.00	43.89	87.80	80-120	
Chlorobenzene	50.00	47.93	95.88	80-120	
Chloroethane	50.00	45.13	90.26	80-120	
Chloroform	50.00	45.97	91.96	80-120	
Chloromethane	50.00	46.75	93.50	80-120	
Chloroprene	50.00	45.07	90.15	80-120	
cis-1,2-Dichloroethene	50.00	47.65	95.31	80-120	
cis-1,3-Dichloropropene	50.00	49.60	99.21	80-120	
Dibromochloromethane	50.00	50.99	101.99	80-120	
Dibromomethane	50.00	47.45	94.92	80-120	
Dichlorodifluoromethane	50.00	44.13	88.28	80-120	
Ethylbenzene	50.00	46.22	92.44	80-120	
Ethyl Methacrylate	50.00	42.56	85.14	80-120	
Iodomethane	100.00	85.27	85.27	80-120	
Isobutyl Alcohol	1000.00	1037.79	103.78	70-130	
Propionitrile	500.00	495.72	99.15	70-130	
Hexachlorobutadiene	50.00	40.81	81.63	80-120	
Isopropylbenzene	50.00	44.80	89.60	80-120	
m,p-Xylenes	100.00	94.37	94.38	80-120	
Methyl tert-butyl ether	50.00	48.10	96.20	80-120	
Methylene Chloride	50.00	48.91	97.83	80-120	
Methacrylonitrile	50.00	51.28	102.56	80-120	
Methyl Methacrylate	50.00	48.63	97.28	80-120	

Initial Calibration Verification (ICV)

Client Bhate Environmental Associates, Inc.
Project LHAAP Site 16

Workorder HS23070546

RunID VOA6_441456

Volatiles by EPA 8260

Sample Matrix LIQUID
Lab Smp Id ICV
Level LOW
Fraction VOA
Client Smp ID ICV
Operator PC

Compound	Conc Added	Conc Recovered	% Recovered	Limits	Q
n-Butylbenzene	50.00	43.07	86.14	80-120	
n-Propylbenzene	50.00	44.93	89.87	80-120	
Naphthalene	50.00	45.05	90.10	80-120	
o-Xylene	50.00	47.84	95.69	80-120	
sec-Butylbenzene	50.00	42.83	85.66	80-120	
Styrene	50.00	49.01	98.02	80-120	
tert-Butylbenzene	50.00	42.55	85.10	80-120	
Tetrachloroethene	50.00	47.18	94.38	80-120	
Toluene	50.00	48.91	97.82	80-120	
trans-1,2-Dichloroethene	50.00	45.43	90.87	80-120	
trans-1,3-Dichloropropene	50.00	49.09	98.19	80-120	
trans-1,4-Dichloro-2-butene	50.00	53.16	106.34	80-120	
Trichloroethene	50.00	46.63	93.27	80-120	
Trichlorofluoromethane	50.00	46.87	93.76	80-120	
Vinyl Acetate	100.00	100.31	100.31	80-120	
Vinyl Chloride	50.00	46.46	92.92	80-120	
1,2-Dichloroethylene (total)	100.00	93.08	93.09	80-120	
Xylenes (total)	150.00	142.22	94.81	80-120	
1,4-Dioxane	1000.00	988.21	98.82	80-120	
Dibromofluoromethane	50.00	52.53	105.08	71-125	
1,2-Dichloroethane-d4	50.00	52.09	104.19	70-125	
Toluene-d8	50.00	48.16	96.34	75-125	

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Form 7

Continuing Calibration Verification (CCV)

Volatiles by EPA 8260

Workorder

HS23070546

Client

Bhate Environmental Associates, Inc.

Project

LHAAP Site 16

07/25/2023

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP Site 16

Workorder HS23070546

RunID VOA6_441458

Volatiles by EPA 8260

Instrument ID VOA6.I
Lab File ID Y071403.D
Analysis Type WATER
Lab Sample ID CCV

Injection Date :48
ICAL Date(s) 14-JUL-2023 14-JUL-2023
ICAL Times :41 15:25
Quant Type ISTD

Compound	$\overline{RRF}$ / Conc	RF50 / Conc	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
Dichlorodifluoromethane	50.0	50.40348	0.51570	0.100	-0.80697	20.0	Linear	
Chloromethane	0.75520	0.79242	0.79242	0.100	-4.92783	20.0	Averaged	
Propionitrile	0.09905	0.09841	0.09841	0.010	0.64496	20.0	Averaged	
Vinyl Chloride	0.64702	0.64752	0.64752	0.100	-0.07693	20.0	Averaged	
Bromomethane	0.26775	0.28290	0.28290	0.100	-5.65535	20.0	Averaged	
Chloroethane	0.36936	0.35440	0.35440	0.100	4.05120	20.0	Averaged	
Trichlorofluoromethane	0.65570	0.66309	0.66309	0.100	-1.12581	20.0	Averaged	
Acrolein	100	96.53456	0.01827	0.010	3.46544	20.0	Linear	
Acetone	100	107	0.21150	0.100	-7.25089	20.0	Linear	
1,1-Dichloroethene	0.36630	0.37721	0.37721	0.100	-2.97831	20.0	Averaged	
Isobutyl Alcohol	0.09478	0.09714	0.09714	0.005	-2.49521	20.0	Averaged	
Acetonitrile	0.07011	0.06702	0.06702	0.005	4.41187	20.0	Averaged	
Allyl Chloride	1.64159	1.51592	1.51592	0.100	7.65532	20.0	Averaged	
Iodomethane	100	98.01565	0.47292	0.100	1.98435	20.0	Quadratic	
Acrylonitrile	0.24365	0.23637	0.23637	0.050	2.98883	20.0	Averaged	
Methylene Chloride	50.0	51.90906	0.44830	0.100	-3.81813	20.0	Linear	
Methyl tert-butyl ether	1.36234	1.31817	1.31817	0.100	3.24192	20.0	Averaged	
Carbon Disulfide	1.15144	1.16492	1.16492	0.100	-1.17082	20.0	Averaged	
trans-1,2-Dichloroethene	0.42371	0.42083	0.42083	0.100	0.67976	20.0	Averaged	
Vinyl Acetate	1.75234	1.74984	1.74984	0.010	0.14284	20.0	Averaged	
1,1-Dichloroethane	0.92980	0.92712	0.92712	0.200	0.28897	20.0	Averaged	
Chloroprene	0.22482	0.21833	0.21833	0.100	2.88377	20.0	Averaged	
2-Butanone	0.26627	0.27722	0.27722	0.100	-4.11357	20.0	Averaged	
Methacrylonitrile	0.64539	0.65997	0.65997	0.100	-2.26039	20.0	Averaged	
2,2-Dichloropropane	50.0	50.62323	0.73082	0.100	-1.24645	20.0	Linear	
cis-1,2-Dichloroethene	0.53977	0.53962	0.53962	0.100	0.02766	20.0	Averaged	
Chloroform	0.95139	0.91701	0.91701	0.200	3.61353	20.0	Averaged	
Bromochloromethane	0.30250	0.29861	0.29861	0.100	1.28562	20.0	Averaged	
30 Dibromofluoromethane	50.0	51.81780	0.47466	0.100	-3.63561	20.0	Linear	
1,1,1-Trichloroethane	0.73237	0.75637	0.75637	0.100	-3.27612	20.0	Averaged	
1,1-Dichloropropene	0.40784	0.41099	0.41099	0.100	-0.77308	20.0	Averaged	
1,2-Dichloroethane	0.55040	0.54898	0.54898	0.100	0.25890	20.0	Averaged	
Carbon Tetrachloride	0.41088	0.39916	0.39916	0.100	2.85205	20.0	Averaged	
35 1,2-Dichloroethane-d4	50.0	50.87655	0.58298	0.100	-1.75309	20.0	Linear	

Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP Site 16

Workorder HS23070546

RunID VOA6_441458

Volatiles by EPA 8260

Instrument ID VOA6.I
Lab File ID Y071403.D
Analysis Type WATER
Lab Sample ID CCV

Injection Date :48
ICAL Date(s) 14-JUL-2023 14-JUL-2023
ICAL Times :41 15:25
Quant Type ISTD

Compound	$\overline{RRF}$ / Conc	RF50 / Conc	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
Benzene	1.19597	1.21641	1.21641	0.500	-1.70894	20.0	Averaged	
Trichloroethene	0.33829	0.34398	0.34398	0.200	-1.68298	20.0	Averaged	
Bromodichloromethane	0.45810	0.45021	0.45021	0.200	1.72211	20.0	Averaged	
Methyl Methacrylate	0.60347	0.59615	0.59615	0.100	1.21418	20.0	Averaged	
2-Chloroethylvinyl ether	0.13987	0.14846	0.14846	0.001	-6.14159	20.0	Averaged	
1,2-Dichloropropane	0.38457	0.39249	0.39249	0.100	-2.05942	20.0	Averaged	
2-Nitropropane	0.19864	0.18991	0.18991	0.000	4.39289	20.0	Averaged	
Dibromomethane	0.21769	0.21358	0.21358	0.100	1.88716	20.0	Averaged	
4-Methyl-2-Pentanone	0.49202	0.47307	0.47307	0.100	3.85187	20.0	Averaged	
cis-1,3-Dichloropropene	0.52616	0.52816	0.52816	0.200	-0.38028	20.0	Averaged	
48 Toluene-d8	1.28735	1.23641	1.23641	0.100	3.95675	20.0	Averaged	
Ethyl Methacrylate	0.32746	0.28874	0.28874	0.100	11.82416	20.0	Averaged	
Toluene	1.34593	1.39898	1.39898	0.400	-3.94134	20.0	Averaged	
trans-1,3-Dichloropropene	0.44354	0.44834	0.44834	0.100	-1.08371	20.0	Averaged	
2-Hexanone	0.32321	0.31794	0.31794	0.100	1.63018	20.0	Averaged	
1,1,2-Trichloroethane	0.28552	0.28826	0.28826	0.100	-0.96112	20.0	Averaged	
1,3-Dichloropropane	0.58331	0.57232	0.57232	0.100	1.88345	20.0	Averaged	
Dibromochloromethane	0.41218	0.41914	0.41914	0.100	-1.68753	20.0	Averaged	
Tetrachloroethene	0.27806	0.28445	0.28445	0.200	-2.29662	20.0	Averaged	
1,2-Dibromoethane	0.32627	0.31369	0.31369	0.100	3.85559	20.0	Averaged	
1-Chlorohexane	0.40168	0.37326	0.37326	0.100	7.07527	20.0	Averaged	
Chlorobenzene	0.94084	0.94979	0.94979	0.500	-0.95169	20.0	Averaged	
1,1,1,2-Tetrachloroethane	0.36833	0.37991	0.37991	0.100	-3.14306	20.0	Averaged	
Ethylbenzene	0.47179	0.47531	0.47531	0.100	-0.74578	20.0	Averaged	
m,p-Xylenes	0.59188	0.61929	0.61929	0.100	-4.63193	20.0	Averaged	
o-Xylene	0.56049	0.57728	0.57728	0.300	-2.99499	20.0	Averaged	
Styrene	0.97767	1.02389	1.02389	0.300	-4.72783	20.0	Averaged	
Bromoform	0.26446	0.27674	0.27674	0.100	-4.64414	20.0	Averaged	
Isopropylbenzene	1.44071	1.46152	1.46152	0.100	-1.44435	20.0	Averaged	
1,1,2,2-Tetrachloroethane	0.83983	0.82578	0.82578	0.300	1.67220	20.0	Averaged	
1,2,3-Trichloropropane	0.66643	0.65821	0.65821	0.100	1.23398	20.0	Averaged	
trans-1,4-Dichloro-2-butene	0.15207	0.15907	0.15907	0.050	-4.60694	20.0	Averaged	
n-Propylbenzene	3.02147	3.09335	3.09335	0.100	-2.37916	20.0	Averaged	
Bromobenzene	0.78198	0.80468	0.80468	0.100	-2.90301	20.0	Averaged	

Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP Site 16

Workorder HS23070546

RunID VOA6_441458

Volatiles by EPA 8260

Instrument ID VOA6.I
Lab File ID Y071403.D
Analysis Type WATER
Lab Sample ID CCV

Injection Date :48
ICAL Date(s) 14-JUL-2023 14-JUL-2023
ICAL Times :41 15:25
Quant Type ISTD

Compound	$\overline{RRF}$ / Conc	RF50 / Conc	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
1,3,5-Trimethylbenzene	2.26350	2.25059	2.25059	0.100	0.57022	20.0	Averaged	
2-Chlorotoluene	2.03821	2.02013	2.02013	0.100	0.88721	20.0	Averaged	
4-Chlorotoluene	2.23973	2.31455	2.31455	0.100	-3.34056	20.0	Averaged	
tert-Butylbenzene	1.94110	1.92629	1.92629	0.100	0.76299	20.0	Averaged	
1,2,4-Trimethylbenzene	2.26985	2.25148	2.25148	0.100	0.80916	20.0	Averaged	
sec-Butylbenzene	2.58735	2.61411	2.61411	0.100	-1.03423	20.0	Averaged	
p-Isopropyltoluene	2.36350	2.36672	2.36672	0.100	-0.13623	20.0	Averaged	
1,3-Dichlorobenzene	1.36227	1.40773	1.40773	0.600	-3.33728	20.0	Averaged	
1,4-Dichlorobenzene	1.49361	1.49444	1.49444	0.400	-0.05538	20.0	Averaged	
Benzyl Chloride	50.0	47.44184	0.80511	0.010	5.11632	20.0	Linear	
n-Butylbenzene	1.97948	1.97185	1.97185	0.500	0.38552	20.0	Averaged	
1,2-Dichlorobenzene	1.33929	1.35721	1.35721	0.400	-1.33872	20.0	Averaged	
1,2-Dibromo-3-Chloropropane	50.0	46.40671	0.12791	0.040	7.18658	20.0	Linear	
1,2,4-Trichlorobenzene	0.91986	0.84795	0.84795	0.100	7.81693	20.0	Averaged	
Hexachlorobutadiene	50.0	46.26217	0.39061	0.100	7.47567	20.0	Linear	
Naphthalene	2.27672	2.13260	2.13260	0.200	6.33019	20.0	Averaged	
1,2,3-Trichlorobenzene	0.86027	0.81602	0.81602	0.010	5.14354	20.0	Averaged	
Methyl Acetate	0.44499	0.43354	0.43354	0.100	2.57232	20.0	Averaged	
Freon TF	50.0	56.58384	0.35679	0.100	-13.16768	20.0	Quadratic	
Cyclohexane	0.86668	0.88710	0.88710	0.100	-2.35599	20.0	Averaged	
Tetrahydrofuran	0.12863	0.12260	0.12260	0.001	4.69334	20.0	Averaged	
Methylcyclohexane	1.05536	1.00438	1.00438	0.100	4.83121	20.0	Averaged	
1,4-Dioxane	0.00594	0.00552	0.00552	0.001	7.17064	20.0	Averaged	
n-Butanol	0.01664	0.01569	0.01569	0.005	5.74077	20.0	Averaged	
Methyl Acrylate	0.67966	0.67855	0.67855	0.100	0.16373	20.0	Averaged	
Ethyl Acrylate	1.65710	1.55720	1.55720	0.100	6.02853	20.0	Averaged	
n-Hexane	50.0	56.60070	0.56464	0.100	-13.20140	20.0	Quadratic	
Diethyl ether	0.46625	0.44050	0.44050	0.100	5.52164	20.0	Averaged	
Tert-butyl alcohol	0.06311	0.05820	0.05820	0.005	7.77666	20.0	Averaged	
Isopropyl alcohol	0.03916	0.03629	0.03629	0.005	7.32853	20.0	Averaged	
Diisopropyl ether	2.06077	1.94486	1.94486	0.100	5.62449	20.0	Averaged	
2-Methylnaphthalene	++++	1.08129	1.08129	0.100	++++	20.0	Averaged	*
1,2,3-Trimethylbenzene	2.31129	2.32912	2.32912	0.100	-0.77176	20.0	Averaged	
Ethanol	1000	989	0.00691	0.001	1.13402	20.0	Linear	

Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP Site 16

Workorder HS23070546

RunID VOA6_441458

Volatiles by EPA 8260

Instrument ID VOA6.I
Lab File ID Y071403.D
Analysis Type WATER
Lab Sample ID CCV

Injection Date :48
ICAL Date(s) 14-JUL-2023 14-JUL-2023
ICAL Times :41 15:25
Quant Type ISTD

Compound	$\overline{RRF}$ / Conc	RF50 / Conc	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
tert-Butyl formate	0.53411	0.47541	0.47541	0.100	10.98963	20.0	Averaged	
3,3-Dimethyl-1-butanol	0.05377	0.04770	0.04770	0.005	11.28849	20.0	Averaged	
tert-Amyl methyl ether	1.64483	1.66180	1.66180	0.005	-1.03169	20.0	Averaged	
tert-Butyl ethyl ether	2.11675	2.02650	2.02650	0.100	4.26373	20.0	Averaged	
tert-Amyl alcohol	0.05462	0.04754	0.04754	0.005	12.96273	20.0	Averaged	
4-Methyl-2-pentanol	0.10715	0.09319	0.09319	0.005	13.03323	20.0	Averaged	
1-Methylnaphthalene	++++	1.08129	1.08129	0.100	++++	20.0	Averaged	*
1,3-Butadiene	0.64248	0.64627	0.64627	0.100	-0.58926	20.0	Averaged	
Amyl alcohol	0.01438	0.01302	0.01302	0.005	9.42031	20.0	Averaged	
Dichlorofluoromethane	0.80560	0.74803	0.74803	0.100	7.14643	20.0	Averaged	
Propylene oxide	0.06134	0.06042	0.06042	0.005	1.50100	20.0	Averaged	
3-Methyl-1-butanol	0.01231	0.01162	0.01162	0.005	5.57689	20.0	Averaged	
Butyl acrylate	0.95123	1.01592	1.01592	0.100	-6.80091	20.0	Averaged	
Butyl methacrylate	1.19763	1.21826	1.21826	0.100	-1.72235	20.0	Averaged	
Dicyclopentadiene	2.88007	2.74199	2.74199	0.100	4.79435	20.0	Averaged	
Epichlorohydrin	0.03735	0.03740	0.03740	0.001	-0.13815	20.0	Averaged	
94 1,2-Dichloroethylene (total	0.48174	0.48023	0.48023	0.200	0.31443	20.0	Averaged	
95 Xylenes (total)	0.53613	0.55100	0.55100	0.100	-2.77332	20.0	Averaged	
alpha-Methylstyrene	1.09085	1.11056	1.11056	0.100	-1.80750	20.0	Averaged	
Ethyl Acetate	0.74265	0.71659	0.71659	0.100	3.50788	20.0	Averaged	
Cyclohexanone	0.04451	0.04306	0.04306	0.005	3.25936	20.0	Averaged	
Isoprene	0.16482	0.16928	0.16928	0.100	-2.70614	20.0	Averaged	
Isopropyl acetate	1.31833	1.25290	1.25290	0.100	4.96290	20.0	Averaged	
n-Amyl acetate	0.91635	0.86256	0.86256	0.100	5.87029	20.0	Averaged	
n-Butyl acetate	0.76635	0.76863	0.76863	0.100	-0.29688	20.0	Averaged	
Allyl alcohol	1000	1133	0.02823	0.004	-13.25591	20.0	Quadratic	
Acetaldehyde	200	231	0.05114	0.001	-15.57727	20.0	Linear	
Methyl Amyl Ketone	1.04505	1.04036	1.04036	0.100	0.44914	20.0	Averaged	
Dimethyl Disulfide	0.67444	0.71441	0.71441	0.100	-5.92683	20.0	Averaged	
Isobutylene	0.08267	0.06678	0.06678	0.010	19.22295	20.0	Averaged	
2-Ethylhexyl Acrylate	1.27708	1.44438	1.44438	0.100	-13.10067	20.0	Averaged	

Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP Site 16

Workorder HS23070546

RunID VOA6_441458

Volatiles by EPA 8260

Instrument ID VOA6.I
Lab File ID Y071431.D
Analysis Type WATER
Lab Sample ID CCV-END

Injection Date :21
ICAL Date(s) 14-JUL-2023 14-JUL-2023
ICAL Times :41 15:25
Quant Type ISTD

Compound	$\overline{RRF}$ / Conc	RF50 / Conc	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
1,4-Dioxane	0.00594	0.00624	0.00624	0.001	-5.00094	50.0	Averaged	
1,3-Butadiene	0.64248	0.70730	0.70730	0.100	-10.08907	50.0	Averaged	
Methacrylonitrile	0.64539	0.71364	0.71364	0.100	-10.57626	50.0	Averaged	
Isobutyl Alcohol	0.09478	0.10492	0.10492	0.005	-10.70202	50.0	Averaged	
Acetonitrile	0.07011	0.07869	0.07869	0.005	-12.22667	50.0	Averaged	
Allyl Chloride	1.64159	1.86669	1.86669	0.100	-13.71237	50.0	Averaged	
Propionitrile	0.09905	0.10586	0.10586	0.010	-6.88372	50.0	Averaged	
trans-1,4-Dichloro-2-butene	0.15207	0.15863	0.15863	0.050	-4.31324	50.0	Averaged	
Acetaldehyde	200	309	0.06688	0.001	-54.62433	50.0	Linear	
Chloroprene	0.22482	0.28019	0.28019	0.100	-24.63127	50.0	Averaged	
Ethyl Acetate	0.74265	0.80038	0.80038	0.100	-7.77439	50.0	Averaged	
Methyl Methacrylate	0.60347	0.62382	0.62382	0.100	-3.37141	50.0	Averaged	
Ethyl Methacrylate	0.32746	0.31754	0.31754	0.100	3.02737	50.0	Averaged	
Methyl Acrylate	0.67966	0.68620	0.68620	0.100	-0.96163	50.0	Averaged	
n-Butanol	0.01664	0.01752	0.01752	0.005	-5.28245	50.0	Averaged	
n-Hexane	50.0	58.04655	0.58228	0.100	-16.09311	50.0	Quadratic	
Diethyl ether	0.46625	0.53202	0.53202	0.100	-14.10604	50.0	Averaged	
Tetrahydrofuran	0.12863	0.13941	0.13941	0.001	-8.37912	50.0	Averaged	
alpha-Methylstyrene	1.09085	1.12298	1.12298	0.100	-2.94539	50.0	Averaged	
Diisopropyl ether	2.06077	2.23911	2.23911	0.100	-8.65398	50.0	Averaged	
Butyl acrylate	0.95123	1.00234	1.00234	0.100	-5.37402	50.0	Averaged	
Ethanol	1000	1246	0.00868	0.001	-24.57410	50.0	Linear	
Dimethyl Disulfide	0.67444	0.70043	0.70043	0.100	-3.85355	50.0	Averaged	
Epichlorohydrin	0.03735	0.03810	0.03810	0.001	-2.02091	50.0	Averaged	
Dicyclopentadiene	2.88007	2.70461	2.70461	0.100	6.09222	50.0	Averaged	
1,2,3-Trimethylbenzene	2.31129	2.25650	2.25650	0.100	2.37029	50.0	Averaged	
2-Ethylhexyl Acrylate	1.27708	1.39260	1.39260	0.100	-9.04575	50.0	Averaged	
Benzyl Chloride	50.0	37.06706	0.61988	0.010	25.86588	50.0	Linear	
Cyclohexanone	0.04451	0.04421	0.04421	0.005	0.67440	50.0	Averaged	
Isobutylene	0.08267	++++	3.517e+66	0.010	++++	50.0	Averaged	*
Ethyl Acrylate	1.65710	1.67869	1.67869	0.100	-1.30313	50.0	Averaged	
Butyl methacrylate	1.19763	1.21523	1.21523	0.100	-1.46898	50.0	Averaged	
Isopropyl acetate	1.31833	1.28994	1.28994	0.100	2.15352	50.0	Averaged	
n-Butyl acetate	0.76635	0.77639	0.77639	0.100	-1.30929	50.0	Averaged	

Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP Site 16

Workorder HS23070546

RunID VOA6_441458

Volatiles by EPA 8260

Instrument ID VOA6.I
Lab File ID Y071431.D
Analysis Type WATER
Lab Sample ID CCV-END

Injection Date :21
ICAL Date(s) 14-JUL-2023 14-JUL-2023
ICAL Times :41 15:25
Quant Type ISTD

Compound	$\overline{RRF}$ / Conc	RF50 / Conc	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
Dichlorodifluoromethane	50.0	53.06304	0.54352	0.100	-6.12608	50.0	Linear	
Chloromethane	0.75520	0.63252	0.63252	0.100	16.24481	50.0	Averaged	
Vinyl Chloride	0.64702	0.70412	0.70412	0.100	-8.82528	50.0	Averaged	
Bromomethane	0.26775	0.26746	0.26746	0.100	0.10829	50.0	Averaged	
Chloroethane	0.36936	0.39407	0.39407	0.100	-6.68925	50.0	Averaged	
Trichlorofluoromethane	0.65570	0.78565	0.78565	0.100	-19.81708	50.0	Averaged	
Acrolein	100	145	0.02760	0.010	-45.26158	50.0	Linear	
Acetone	100	120	0.23593	0.100	-20.20101	50.0	Linear	
1,1-Dichloroethene	0.36630	0.40360	0.40360	0.100	-10.18080	50.0	Averaged	
Iodomethane	100	91.58622	0.43982	0.100	8.41378	50.0	Quadratic	
Acrylonitrile	0.24365	0.25387	0.25387	0.050	-4.19592	50.0	Averaged	
Methylene Chloride	50.0	58.13824	0.50067	0.100	-16.27647	50.0	Linear	
Methyl tert-butyl ether	1.36234	1.37388	1.37388	0.100	-0.84719	50.0	Averaged	
Carbon Disulfide	1.15144	1.23232	1.23232	0.100	-7.02476	50.0	Averaged	
trans-1,2-Dichloroethene	0.42371	0.44744	0.44744	0.100	-5.60045	50.0	Averaged	
Vinyl Acetate	1.75234	1.75981	1.75981	0.010	-0.42592	50.0	Averaged	
1,1-Dichloroethane	0.92980	1.04125	1.04125	0.200	-11.98609	50.0	Averaged	
2-Butanone	0.26627	0.29992	0.29992	0.100	-12.63731	50.0	Averaged	
2,2-Dichloropropane	50.0	46.60158	0.67252	0.100	6.79684	50.0	Linear	
cis-1,2-Dichloroethene	0.53977	0.56759	0.56759	0.100	-5.15330	50.0	Averaged	
Chloroform	0.95139	0.97864	0.97864	0.200	-2.86433	50.0	Averaged	
Bromochloromethane	0.30250	0.31187	0.31187	0.100	-3.09928	50.0	Averaged	
30 Dibromofluoromethane	50.0	53.94255	0.49385	0.100	-7.88510	50.0	Linear	
1,1,1-Trichloroethane	0.73237	0.81378	0.81378	0.100	-11.11577	50.0	Averaged	
1,1-Dichloropropene	0.40784	0.42608	0.42608	0.100	-4.47369	50.0	Averaged	
1,2-Dichloroethane	0.55040	0.55198	0.55198	0.100	-0.28654	50.0	Averaged	
Carbon Tetrachloride	0.41088	0.41886	0.41886	0.100	-1.94239	50.0	Averaged	
35 1,2-Dichloroethane-d4	50.0	52.07105	0.59651	0.100	-4.14211	50.0	Linear	
Benzene	1.19597	1.23305	1.23305	0.500	-3.10079	50.0	Averaged	
Trichloroethene	0.33829	0.35518	0.35518	0.200	-4.99286	50.0	Averaged	
Bromodichloromethane	0.45810	0.45708	0.45708	0.200	0.22337	50.0	Averaged	
2-Chloroethylvinyl ether	0.13987	0.15169	0.15169	0.001	-8.45558	50.0	Averaged	
1,2-Dichloropropane	0.38457	0.40797	0.40797	0.100	-6.08556	50.0	Averaged	
Dibromomethane	0.21769	0.21649	0.21649	0.100	0.55115	50.0	Averaged	

Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP Site 16

Workorder HS23070546

RunID VOA6_441458

Volatiles by EPA 8260

Instrument ID VOA6.I
Lab File ID Y071431.D
Analysis Type WATER
Lab Sample ID CCV-END

Injection Date :21
ICAL Date(s) 14-JUL-2023 14-JUL-2023
ICAL Times :41 15:25
Quant Type ISTD

Compound	$\overline{RRF}$ / Conc	RF50 / Conc	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
4-Methyl-2-Pentanone	0.49202	0.48533	0.48533	0.100	1.36084	50.0	Averaged	
cis-1,3-Dichloropropene	0.52616	0.52963	0.52963	0.200	-0.65889	50.0	Averaged	
48 Toluene-d8	1.28735	1.19833	1.19833	0.100	6.91470	50.0	Averaged	
Toluene	1.34593	1.41006	1.41006	0.400	-4.76466	50.0	Averaged	
trans-1,3-Dichloropropene	0.44354	0.44080	0.44080	0.100	0.61626	50.0	Averaged	
2-Hexanone	0.32321	0.33063	0.33063	0.100	-2.29652	50.0	Averaged	
1,1,2-Trichloroethane	0.28552	0.28445	0.28445	0.100	0.37255	50.0	Averaged	
1,3-Dichloropropane	0.58331	0.57816	0.57816	0.100	0.88223	50.0	Averaged	
Dibromochloromethane	0.41218	0.42370	0.42370	0.100	-2.79457	50.0	Averaged	
Tetrachloroethene	0.27806	0.29436	0.29436	0.200	-5.86256	50.0	Averaged	
1,2-Dibromoethane	0.32627	0.32083	0.32083	0.100	1.66754	50.0	Averaged	
1-Chlorohexane	0.40168	0.39257	0.39257	0.100	2.26989	50.0	Averaged	
Chlorobenzene	0.94084	0.95028	0.95028	0.500	-1.00331	50.0	Averaged	
1,1,1,2-Tetrachloroethane	0.36833	0.37394	0.37394	0.100	-1.52219	50.0	Averaged	
Ethylbenzene	0.47179	0.47888	0.47888	0.100	-1.50265	50.0	Averaged	
m,p-Xylenes	0.59188	0.61009	0.61009	0.100	-3.07780	50.0	Averaged	
o-Xylene	0.56049	0.57626	0.57626	0.300	-2.81243	50.0	Averaged	
Styrene	0.97767	1.00408	1.00408	0.300	-2.70120	50.0	Averaged	
Bromoform	0.26446	0.26760	0.26760	0.100	-1.18857	50.0	Averaged	
Isopropylbenzene	1.44071	1.52421	1.52421	0.100	-5.79537	50.0	Averaged	
1,1,2,2-Tetrachloroethane	0.83983	0.78766	0.78766	0.300	6.21184	50.0	Averaged	
1,2,3-Trichloropropane	0.66643	0.64771	0.64771	0.100	2.81021	50.0	Averaged	
n-Propylbenzene	3.02147	3.18989	3.18989	0.100	-5.57420	50.0	Averaged	
Bromobenzene	0.78198	0.79722	0.79722	0.100	-1.94812	50.0	Averaged	
1,3,5-Trimethylbenzene	2.26350	2.31978	2.31978	0.100	-2.48678	50.0	Averaged	
2-Chlorotoluene	2.03821	2.04763	2.04763	0.100	-0.46186	50.0	Averaged	
4-Chlorotoluene	2.23973	2.30804	2.30804	0.100	-3.04985	50.0	Averaged	
tert-Butylbenzene	1.94110	2.01462	2.01462	0.100	-3.78733	50.0	Averaged	
1,2,4-Trimethylbenzene	2.26985	2.31770	2.31770	0.100	-2.10812	50.0	Averaged	
sec-Butylbenzene	2.58735	2.76392	2.76392	0.100	-6.82436	50.0	Averaged	
p-Isopropyltoluene	2.36350	2.40276	2.40276	0.100	-1.66113	50.0	Averaged	
1,3-Dichlorobenzene	1.36227	1.38440	1.38440	0.600	-1.62433	50.0	Averaged	
1,4-Dichlorobenzene	1.49361	1.44454	1.44454	0.400	3.28546	50.0	Averaged	
n-Butylbenzene	1.97948	2.04008	2.04008	0.500	-3.06130	50.0	Averaged	

Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP Site 16

Workorder HS23070546

RunID VOA6_441458

Volatiles by EPA 8260

Instrument ID VOA6.I
Lab File ID Y071431.D
Analysis Type WATER
Lab Sample ID CCV-END

Injection Date :21
ICAL Date(s) 14-JUL-2023 14-JUL-2023
ICAL Times :41 15:25
Quant Type ISTD

Compound	$\overline{RRF}$ / Conc	RF50 / Conc	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
1,2-Dichlorobenzene	1.33929	1.36895	1.36895	0.400	-2.21459	50.0	Averaged	
1,2-Dibromo-3-Chloropropane	50.0	48.54243	0.13393	0.040	2.91514	50.0	Linear	
1,2,4-Trichlorobenzene	0.91986	0.86424	0.86424	0.100	6.04638	50.0	Averaged	
Hexachlorobutadiene	50.0	46.37116	0.39158	0.100	7.25769	50.0	Linear	
Naphthalene	2.27672	2.18488	2.18488	0.200	4.03372	50.0	Averaged	
1,2,3-Trichlorobenzene	0.86027	0.80671	0.80671	0.010	6.22585	50.0	Averaged	
94 1,2-Dichloroethylene (total	0.48174	0.50751	0.50751	0.200	-5.34994	50.0	Averaged	
95 Xylenes (total)	0.53613	0.55602	0.55602	0.100	-3.71029	50.0	Averaged	
Cyclohexane	0.86668	1.00611	1.00611	0.100	-16.08752	50.0	Averaged	
Freon TF	50.0	60.44307	0.38647	0.100	-20.88614	50.0	Quadratic	
Methylcyclohexane	1.05536	1.03063	1.03063	0.100	2.34397	50.0	Averaged	
Methyl Acetate	0.44499	0.56139	0.56139	0.100	-26.15742	50.0	Averaged	
Tert-butyl alcohol	0.06311	0.06564	0.06564	0.005	-4.01285	50.0	Averaged	
Isopropyl alcohol	0.03916	0.04060	0.04060	0.005	-3.69165	50.0	Averaged	

Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP Site 16

Workorder HS23070546

RunID VOA6_441608

Volatiles by EPA 8260

Instrument ID VOA6.I
Lab File ID Y071703.D
Analysis Type WATER
Lab Sample ID CCV

Injection Date :30
ICAL Date(s) 14-JUL-2023 14-JUL-2023
ICAL Times :41 15:25
Quant Type ISTD

Compound	$\overline{RRF}$ / Conc	RF50 / Conc	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
30 Dibromofluoromethane	50.0	52.70386	0.48266	0.100	-5.40772	20.0	Linear	
35 1,2-Dichloroethane-d4	50.0	51.05569	0.58501	0.100	-2.11138	20.0	Linear	
48 Toluene-d8	1.28735	1.18014	1.18014	0.100	8.32769	20.0	Averaged	
Vinyl Chloride	0.64702	0.70564	0.70564	0.100	-9.05885	20.0	Averaged	
1,1-Dichloroethene	0.36630	0.38444	0.38444	0.100	-4.95045	20.0	Averaged	
Methylene Chloride	50.0	56.45824	0.48655	0.100	-12.91649	20.0	Linear	
cis-1,2-Dichloroethene	0.53977	0.54677	0.54677	0.100	-1.29631	20.0	Averaged	
1,2-Dichloroethane	0.55040	0.52903	0.52903	0.100	3.88350	20.0	Averaged	
Trichloroethene	0.33829	0.33483	0.33483	0.200	1.02208	20.0	Averaged	
1,1,2-Trichloroethane	0.28552	0.28298	0.28298	0.100	0.88682	20.0	Averaged	
trans-1,2-Dichloroethene	0.42371	0.44207	0.44207	0.100	-4.33272	20.0	Averaged	

Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP Site 16

Workorder HS23070546

RunID VOA6_441608

Volatiles by EPA 8260

Instrument ID VOA6.I
Lab File ID Y071731.D
Analysis Type WATER
Lab Sample ID CCV-END

Injection Date :04
ICAL Date(s) 14-JUL-2023 14-JUL-2023
ICAL Times :41 15:25
Quant Type ISTD

Compound	$\overline{RRF}$ / Conc	RF50 / Conc	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
30 Dibromofluoromethane	50.0	56.96734	0.52115	0.100	-13.93467	50.0	Linear	
35 1,2-Dichloroethane-d4	50.0	55.43012	0.63453	0.100	-10.86024	50.0	Linear	
48 Toluene-d8	1.28735	1.22910	1.22910	0.100	4.52459	50.0	Averaged	
Vinyl Chloride	0.64702	0.79339	0.79339	0.100	-22.62171	50.0	Averaged	
1,1-Dichloroethene	0.36630	0.44476	0.44476	0.100	-21.41922	50.0	Averaged	
Methylene Chloride	50.0	60.86354	0.52359	0.100	-21.72708	50.0	Linear	
cis-1,2-Dichloroethene	0.53977	0.58918	0.58918	0.100	-9.15374	50.0	Averaged	
1,2-Dichloroethane	0.55040	0.54470	0.54470	0.100	1.03579	50.0	Averaged	
Trichloroethene	0.33829	0.34068	0.34068	0.200	-0.70833	50.0	Averaged	
1,1,2-Trichloroethane	0.28552	0.28524	0.28524	0.100	0.09526	50.0	Averaged	
trans-1,2-Dichloroethene	0.42371	0.48160	0.48160	0.100	-13.66213	50.0	Averaged	

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Form 8

Internal Standard Area and RT Summary

Volatiles by EPA 8260

Workorder

HS23070546

Client

Bhate Environmental Associates, Inc.

Project

LHAAP Site 16

07/25/2023

ALS Environmental–Houston Laboratory

10450 Stancliff Road, Suite 210, Houston, TX 77099

Phone (281) 530-5656 Fax (281) 530-5887

www.alsglobal.com

Form 8 - Internal Standard Area and RT Summary

Client Bhate Environmental Associates, Inc.

Project LHAAP Site 16

Workorder
HS23070546

Volatiles by EPA 8260

VOA6_441458		Pentafluorobenzene				1,4-Difluorobenzene				Chlorobenzene				1,4-Dichlorobenze			
Sample ID	File ID	Area	#	RT	#	Area	#	RT	#	Area	#	RT	#	Area	#	RT	#
12-HOUR STD (CCV)	Y071403.D	512075	#	4.18	#	793930	#	4.97	#	722724	#	7.67	#	397495	#	9.66	#
HS23070546-01	Y071423.D	550991		4.18		802158		4.97		725579		7.67		381681		9.66	
HS23070546-02	Y071422.D	541290		4.18		807911		4.97		729173		7.67		357583		9.66	
VBLKW-230714	Y071407.D	526276		4.18		772082		4.97		677726		7.67		329433		9.66	
VLCSW-230714	Y071405.D	496979		4.18		785043		4.97		726669		7.67		386725		9.66	
MS-ZZZZZZMS	Y071416.D	537364		4.18		801325		4.97		722907		7.67		388627		9.66	
ZZZZZZMSD	Y071417.D	529973		4.18		794491		4.97		703408		7.67		358964		9.66	

AREA UPPER LIMIT = +100% of 12H STD IS Area
AREA LOWER LIMIT = - 50% of 12H STD IS Area
RT - Retention IS - Internal StandardTime

RT UPPER LIMIT = + 0.50 of 12H STD IS RT
RT LOWER LIMIT = - 0.50 of 12H STD IS RT
CCV - Continuing Calibration Verification

- Area or RT Limit Flag
* - Value Outside Area or RT limits
H - Hour STD - Standard

Form 8 - Internal Standard Area and RT Summary

Client Bhate Environmental Associates, Inc.

Project LHAAP Site 16

Workorder
HS23070546

Volatiles by EPA 8260

VOA6_441608		Pentafluorobenzene				1,4-Difluorobenzene				Chlorobenzene				1,4-Dichlorobenze			
Sample ID	File ID	Area	#	RT	#	Area	#	RT	#	Area	#	RT	#	Area	#	RT	#
12-HOUR STD (CCV)	Y071703.D	600874	#	4.18	#	980784	#	4.97	#	907491	#	7.67	#	480551	#	9.66	#
HS23070546-03	Y071710.D	519033		4.18		787919		4.97		820394		7.67		399472		9.66	
HS23070546-03	Y071709.D	627760		4.18		976648		4.97		849728		7.67		423902		9.66	
HS23070546-03MS	Y071712.D	623956		4.18		974494		4.97		857955		7.67		430640		9.66	
HS23070546-03MSD	Y071713.D	629996		4.18		985284		4.97		849001		7.67		442985		9.66	
HS23070546-04	Y071716.D	630037		4.18		967410		4.97		855216		7.67		430322		9.66	
HS23070546-05	Y071717.D	635348		4.18		957298		4.97		836165		7.67		420072		9.66	
HS23070546-06	Y071718.D	646720		4.18		976383		4.97		866202		7.67		445066		9.66	
HS23070546-07	Y071719.D	650814		4.18		961924		4.97		868104		7.67		461392		9.66	
HS23070546-08	Y071720.D	641390		4.18		956226		4.97		855822		7.67		419986		9.66	
HS23070546-09	Y071708.D	625940		4.18		959617		4.97		866048		7.67		431560		9.66	
VBLKW-230717	Y071707.D	645460		4.18		990257		4.97		874420		7.67		442776		9.66	
VLCSW-230717	Y071705.D	610210		4.18		1016770		4.97		935510		7.67		490550		9.66	

AREA UPPER LIMIT = +100% of 12H STD IS Area
AREA LOWER LIMIT = - 50% of 12H STD IS Area
RT - Retention IS - Internal StandardTime

RT UPPER LIMIT = + 0.50 of 12H STD IS RT
RT LOWER LIMIT = - 0.50 of 12H STD IS RT
CCV - Continuing Calibration Verification

- Area or RT Limit Flag
* - Value Outside Area or RT limits
H - Hour STD - Standard

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Analysis Run Log

Volatiles by EPA 8260

Workorder

HS23070546

Client

Bhate Environmental Associates, Inc.

Project

LHAAP Site 16

07/25/2023

ALS Environmental–Houston Laboratory

10450 Stancliff Road, Suite 210, Houston, TX 77099

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Form 13 - Analysis Run Log

Client Bhate Environmental Associates, Inc.

Project LHAAP Site 16

Workorder
HS23070546

RunID
VOA6-441456

Volatiles by EPA 8260

Run ID VOA6_441456 **Start Date** 07/14/23 **EndDate** 07/14/23

Inj. Time	Client Sample ID	Type	Lab Sample ID	File ID	Analysis Date	DF
11:20	BFB	TUNE	BFB	X071401.D	07/14/23	1
12:01	VSTD000.25	ICAL1	VSTD000.25	X071402.D	07/14/23	1
12:22	VSTD000.5	ICAL2	VSTD000.5	X071403.D	07/14/23	1
13:02	VSTD001	ICAL3	VSTD001	X071404.D	07/14/23	1
13:23	VSTD002	ICAL4	VSTD002	X071405.D	07/14/23	1
13:43	VSTD005	ICAL5	VSTD005	X071406.D	07/14/23	1
14:04	VSTD020	ICAL6	VSTD020	X071407.D	07/14/23	1
14:24	VSTD050	ICAL7	VSTD050	X071408.D	07/14/23	1
14:44	VSTD100	ICAL8	VSTD100	X071409.D	07/14/23	1
15:05	VSTD150	ICAL9	VSTD150	X071410.D	07/14/23	1
15:25	VSTD200	ICAL	VSTD200	X071411.D	07/14/23	1
16:06	CCV	ICV	CCV	X071413.D	07/14/23	1

Form 13 - Analysis Run Log

Client Bhate Environmental Associates, Inc.

Project LHAAP Site 16

Workorder
HS23070546

RunID
VOA6-441458

Volatiles by EPA 8260

Run ID VOA6_441458 **Start Date** 07/14/23 **EndDate** 07/15/23

Inj. Time	Client Sample ID	Type	Lab Sample ID	File ID	Analysis Date	DF
17:07	BFB	TUNE	BFB	Y071401.D	07/14/23	1
17:48	CCV	CCV	CCV	Y071403.D	07/14/23	1
18:08	CCB	CCB	CCB	Y071404.D	07/14/23	1
18:29	VLCSW-230714	LCS	VLCSW-230714	Y071405.D	07/14/23	1
19:10	VBLKW-230714	MBLK	VBLKW-230714	Y071407.D	07/14/23	1
20:52	HS23070445-03	SAMP	ZZZZZZZZZZ	Y071412.D	07/14/23	1
21:12	HS23070451-10	SAMP	ZZZZZZZZZZ	Y071413.D	07/14/23	1
21:33	HS23070445-01	SAMP	ZZZZZZZZZZ	Y071414.D	07/14/23	1
21:53	HS23070451-04	SAMP	ZZZZZZZZZZ	Y071415.D	07/14/23	1
22:14	HS23070451-04MS	MS	ZZZZZZMS	Y071416.D	07/14/23	1
22:34	HS23070451-04MSD	MSD	ZZZZZZMSD	Y071417.D	07/14/23	1
23:15	HS23070451-01	SAMP	ZZZZZZZZZZ	Y071419.D	07/14/23	1
23:36	HS23070451-02	SAMP	ZZZZZZZZZZ	Y071420.D	07/14/23	1
23:56	HS23070451-05	SAMP	ZZZZZZZZZZ	Y071421.D	07/14/23	1
00:17	HS23070546-02	SAMP	16WW57-230711	Y071422.D	07/15/23	5
00:37	HS23070546-01	SAMP	16WW58-230711	Y071423.D	07/15/23	50
00:58	HS23070451-09	SAMP	ZZZZZZZZZZ	Y071424.D	07/15/23	50
01:18	HS23070451-06	SAMP	ZZZZZZZZZZ	Y071425.D	07/15/23	50
01:39	HS23070451-06	SAMP	ZZZZZZZZZZ	Y071426.D	07/15/23	250
01:59	HS23070451-07	SAMP	ZZZZZZZZZZ	Y071427.D	07/15/23	50
02:20	HS23070451-07	SAMP	ZZZZZZZZZZ	Y071428.D	07/15/23	250
02:40	HS23070451-08	SAMP	ZZZZZZZZZZ	Y071429.D	07/15/23	200
03:21	CCV-END	CCV_END	CCV-END	Y071431.D	07/15/23	1

Form 13 - Analysis Run Log

Client Bhate Environmental Associates, Inc.

Project LHAAP Site 16

Workorder
HS23070546

RunID
VOA6-441608

Volatiles by EPA 8260

Run ID VOA6_441608 **Start Date** 07/17/23 **EndDate** 07/18/23

Inj. Time	Client Sample ID	Type	Lab Sample ID	File ID	Analysis Date	DF
21:49	BFB	TUNE	BFB	Y071701.D	07/17/23	1
22:30	CCV	CCV	CCV	Y071703.D	07/17/23	1
22:50	CCB	CCB	CCB	Y071704.D	07/17/23	1
23:10	VLCSW-230717	LCS	VLCSW-230717	Y071705.D	07/17/23	1
23:51	VBLKW-230717	MBLK	VBLKW-230717	Y071707.D	07/17/23	1
00:12	HS23070546-09	SAMP	Trip Blank - 230711	Y071708.D	07/18/23	1
00:32	HS23070546-03	SAMP	16WW16-230711	Y071709.D	07/18/23	100
00:53	HS23070546-03	SAMP	16WW16-230711	Y071710.D	07/18/23	1000
01:13	HS23070451-03	SAMP	ZZZZZZZZZZ	Y071711.D	07/18/23	50
01:34	HS23070546-03MS	MS	HS23070546-03MS	Y071712.D	07/18/23	1000
01:54	HS23070546-03MSD	MSD	HS23070546-03MSD	Y071713.D	07/18/23	1000
02:35	HS23070451-03	SAMP	ZZZZZZZZZZ	Y071715.D	07/18/23	1000
02:56	HS23070546-04	SAMP	16WW34-230711	Y071716.D	07/18/23	1
03:16	HS23070546-05	SAMP	16WW33-230711	Y071717.D	07/18/23	1
03:37	HS23070546-06	SAMP	16WW32-230711	Y071718.D	07/18/23	1
03:57	HS23070546-07	SAMP	16WW31-230711	Y071719.D	07/18/23	1
04:18	HS23070546-08	SAMP	16WW56-230711	Y071720.D	07/18/23	1
04:39	HS23070658-01	SAMP	ZZZZZZZZZZ	Y071721.D	07/18/23	5
04:59	HS23070658-01	SAMP	ZZZZZZZZZZ	Y071722.D	07/18/23	50
05:20	HS23070658-02	SAMP	ZZZZZZZZZZ	Y071723.D	07/18/23	10
05:40	HS23070658-02	SAMP	ZZZZZZZZZZ	Y071724.D	07/18/23	100
06:01	HS23070658-07	SAMP	ZZZZZZZZZZ	Y071725.D	07/18/23	50
06:21	HS23070658-07	SAMP	ZZZZZZZZZZ	Y071726.D	07/18/23	500
06:42	HS23070658-03	SAMP	ZZZZZZZZZZ	Y071727.D	07/18/23	100
07:02	HS23070658-03	SAMP	ZZZZZZZZZZ	Y071728.D	07/18/23	500
07:23	HS23070658-04	SAMP	ZZZZZZZZZZ	Y071729.D	07/18/23	100
07:43	HS23070658-04	SAMP	ZZZZZZZZZZ	Y071730.D	07/18/23	500
08:04	CCV-END	CCV_END	CCV-END	Y071731.D	07/18/23	1

01319528

right solutions.
right partner.

Raw Data VOA6 441456

Volatiles by EPA 8260

Workorder

HS23070546

Client

Bhate Environmental Associates, Inc.

Project

LHAAP Site 16

07/25/2023

ALS Environmental–Houston Laboratory

10450 Stancliff Road, Suite 210, Houston, TX 77099

Phone (281) 530-5656 Fax (281) 530-5887

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Data File: \\NAHSTWS005\Target\chem\voa6.i\X230714.b\X071401.D Page 1
Report Date: 14-Jul-2023 12:16

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Data file : \\NAHSTWS005\Target\chem\voa6.i\X230714.b\X071401.D
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 14-JUL-2023 11:20
Operator : PC Inst ID: voa6.i
Smp Info : BFB;BFB;3;;BFB
Misc Info : V6;WATER;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\voa6.i\X230714.b\bfb.m
Meth Date : 14-Mar-2023 15:45 Linh.Pham Quant Type: ISTD
Cal Date : Cal File:
Als bottle: 1 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: NAHSTW7051

Concentration Formula: Amt * DF * Uf * Vf * Vi * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vf	1.000	Volumetric correction factor
Vi	2.000	Injection Volume
Cpnd Variable		Local Compound Variable

					CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/l)	TARGET RANGE	RATIO
RT	EXP RT	REL RT	MASS	RESPONSE				
1 bfb							CAS #: 460-00-4	
8.687	8.889	(0.000)	95	75584			0.00- 100.00	100.00
8.687	8.889	(0.000)	50	19544			15.00- 40.00	25.86
8.687	8.889	(0.000)	75	39336			30.00- 60.00	52.04
8.687	8.889	(0.000)	96	4254			5.00- 9.00	5.63
8.687	8.889	(0.000)	173	575			0.00- 2.00	0.93
8.687	8.889	(0.000)	174	62120			50.00- 0.00	82.19
8.687	8.889	(0.000)	175	4074			5.00- 9.00	6.56
8.687	8.889	(0.000)	176	59920			95.00- 101.00	96.46
8.687	8.889	(0.000)	177	3382			5.00- 9.00	5.64

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	25.86
75	30.00 - 60.00% of mass 95	52.04
96	5.00 - 9.00% of mass 95	5.63
173	Less than 2.00% of mass 174	0.76 (0.93)
174	Greater than 50.00% of mass 95	82.19
175	5.00 - 9.00% of mass 174	5.39 (6.56)
176	95.00 - 101.00% of mass 174	79.28 (96.46)
177	5.00 - 9.00% of mass 176	4.47 (5.64)

Data File: X071401.D
Spectrum: Scan 2159 (8.68)
Location of Maximum: 95.10
Number of points: 86

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1001	59.90	684	88.00	3732	134.80	342
37.00	4000	61.00	4199	91.20	205	137.00	155
38.10	3490	62.10	4176	92.00	2613	140.00	79
39.20	1334	63.00	2135	93.00	3158	140.80	1031
39.90	3559	64.10	319	94.00	8834	142.20	140
40.70	64	67.00	413	95.10	75584	142.90	753
42.00	125	68.10	6971	96.00	4254	145.70	149
43.00	148	69.10	7538	97.30	71	147.80	317
44.10	2032	70.10	1203	104.00	361	148.70	68
45.10	1709	72.20	463	105.00	140	155.00	115
46.10	218	73.20	3048	105.90	261	156.90	305
47.00	2031	74.00	11989	107.00	78	158.60	77
47.80	299	75.00	39336	114.80	122	167.70	60
48.30	315	76.10	3185	115.70	131	169.70	59
49.00	4410	76.90	966	116.70	450	172.20	197
50.00	19544	78.10	384	118.00	134	173.00	575
51.00	6014	78.90	2349	118.90	176	174.00	62120
52.20	624	79.90	148	127.80	434	175.00	4074
55.10	243	80.80	1499	128.50	116	176.00	59920
55.90	1173	82.00	347	129.50	194	177.00	3382
57.00	2234	85.90	194	129.90	123		
57.80	62	87.00	3285	131.00	91		

Data File: \\nahstws005\target\chem\voa6.i\x230714.b\x071401.d Page 1

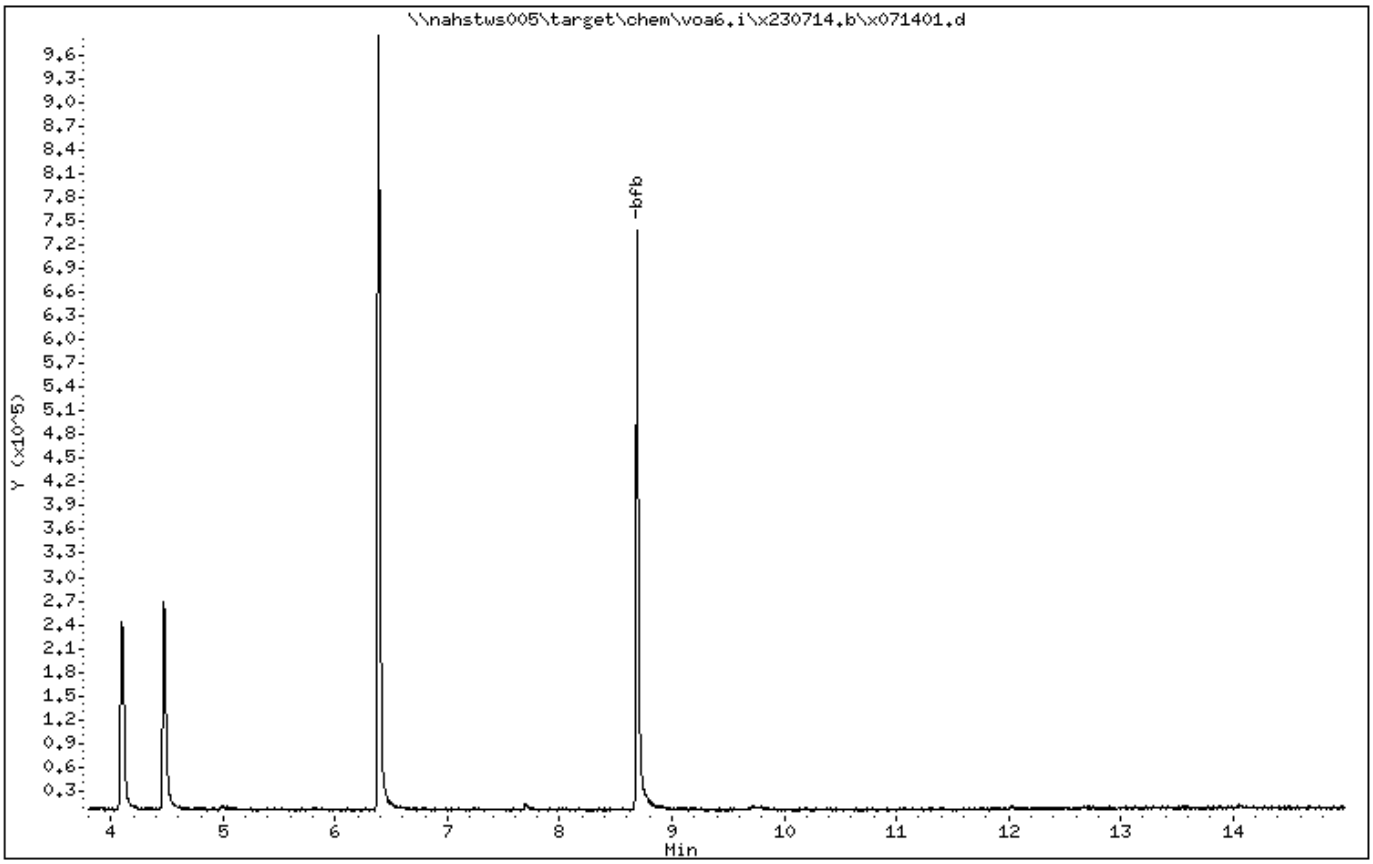
Date : 14-JUL-2023 11:20

Client ID: BFB Instrument: voa6.i

Sample Info: BFB;BFB;3;;BFB

Volume Injected (uL): 2.0 Operator: PC

Column phase: DB624 Column diameter: 0.25



Data File : \\nahstws005\target\chem\voa6.i\x230714.b\x071401.d
Inj Date : 14-JUL-2023 11:20
InstruID : voa6.i
LabSampID : BFB

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230714.b\X071402.D Page 1
Report Date: 20-Jul-2023 15:04

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230714.b\X071402.D
Lab Smp Id: VSTD000.25 Client Smp ID: VSTD000.25
Inj Date : 14-JUL-2023 12:01
Operator : PC Inst ID: voa6.i
Smp Info : VSTD000.25;VSTD000.25;1;1;
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230714.b\8260W.m
Meth Date : 20-Jul-2023 15:04 voa6.i Quant Type: ISTD
Cal Date : 14-JUL-2023 14:24 Cal File: X071408.D
Als bottle: 3 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

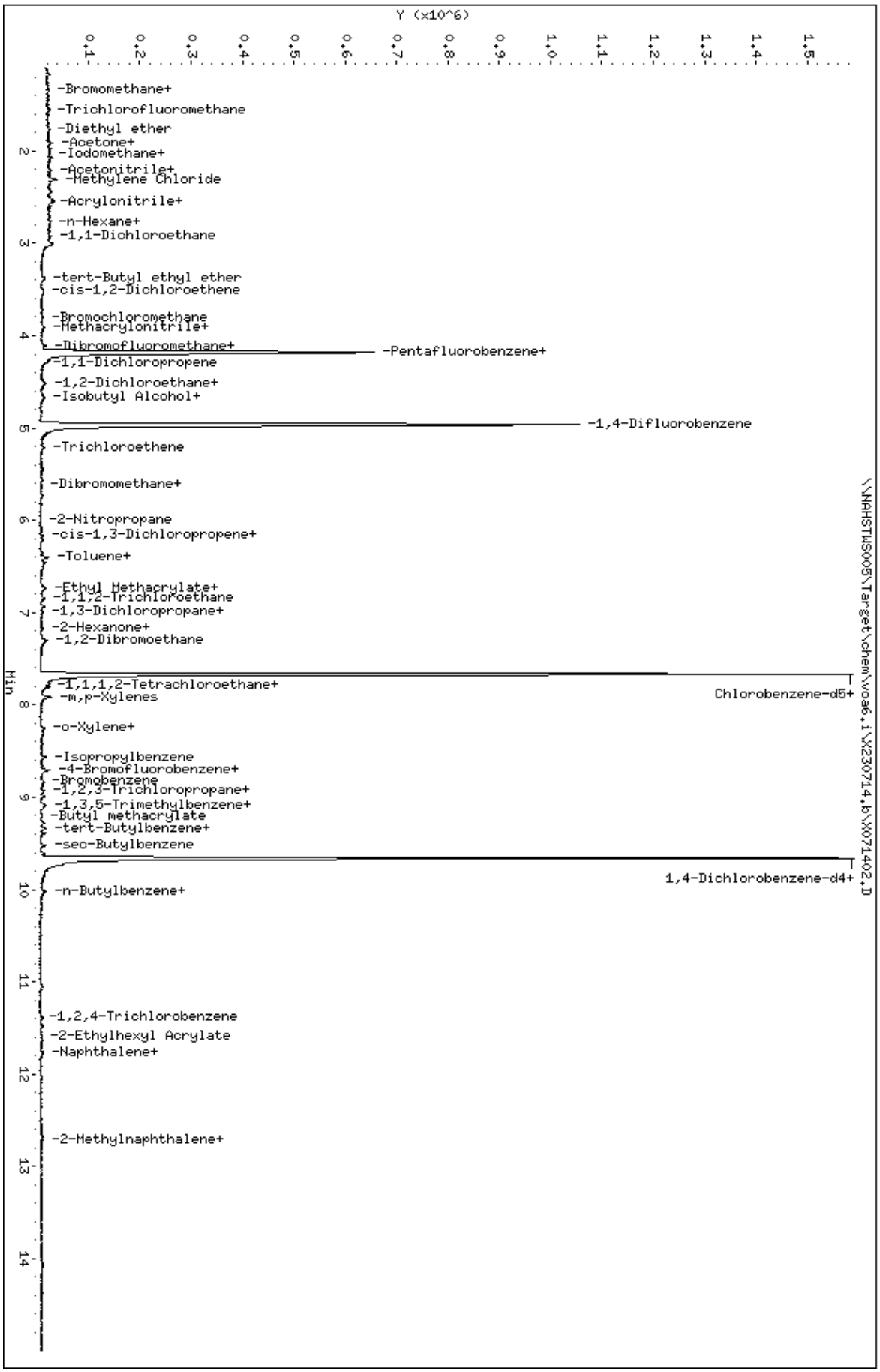
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
*	1 Pentafluorobenzene	168	4.177	4.177	(1.000)	513772	50.0000	
	2 Dichlorodifluoromethane	85	0.972	0.972	(0.233)	1327	0.25000	1.34
	6 Bromomethane	94	1.344	1.344	(0.322)	1426	0.25000	0.51
	7 Chloroethane	64	1.404	1.404	(0.336)	2235	0.25000	0.58
	13 Acetonitrile	39	2.206	2.206	(0.528)	1743	2.50000	2.41(a)
	15 Iodomethane	142	2.026	2.026	(0.485)	1361	0.50000	4.07(T)
	34 Carbon Tetrachloride	117	4.177	4.177	(0.841)	45277	0.25000	6.79
*	36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	810653	50.0000	
	43 2-Nitropropane	43	5.992	5.992	(1.434)	882	0.25000	0.43(a)
	44 Dibromomethane	93	5.557	5.557	(1.119)	982	0.25000	0.27(a)
	46 cis-1,3-Dichloropropene	75	6.164	6.164	(1.242)	2135	0.25000	0.25(a)
*	47 Chlorobenzene-d5	117	7.667	7.667	(1.000)	750028	50.0000	
$	48 Toluene-d8	98	6.400	6.400	(0.835)	9790	0.25000	0.50(aM)
	49 Ethyl Methacrylate	69	6.738	6.738	(1.357)	1122	0.25000	0.21(a)
	50 Toluene	91	6.457	6.457	(0.842)	5493	0.25000	0.27(a)
	53 1,1,2-Trichloroethane	83	6.847	6.847	(0.893)	800	0.25000	0.18(a)
	54 1,3-Dichloropropane	76	6.993	6.993	(0.912)	2465	0.25000	0.28(a)
	55 Dibromochloromethane	129	7.180	7.180	(0.936)	1520	0.25000	0.24(a)
	56 Tetrachloroethene	164	6.940	6.940	(0.905)	1306	0.25000	0.31(a)
	57 1,2-Dibromoethane	107	7.285	7.285	(0.950)	1533	0.25000	0.31(a)

58 1-Chlorohexane	55	7.667	7.667 (1.544)	8221	0.25000	1.26(a)
59 Chlorobenzene	112	7.694	7.694 (1.003)	4381	0.25000	0.31(a)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	60 1,1,1,2-Tetrachloroethane	131	7.780	7.780	(1.015)	1432	0.25000	0.25(a)
	61 Ethylbenzene	106	7.810	7.810	(1.019)	1916	0.25000	0.27(a)
	62 m,p-Xylenes	106	7.915	7.915	(1.032)	4768	0.50000	0.53(a)
	63 o-Xylene	106	8.252	8.252	(1.076)	2524	0.25000	0.30(a)
	64 Styrene	104	8.316	8.316	(1.085)	2747	0.25000	0.18(a)
	67 Isopropylbenzene	105	8.567	8.567	(1.117)	5899	0.25000	0.27(a)
$	69 4-Bromofluorobenzene	95	8.710	8.710	(1.136)	5758	0.25000	0.34(a)
*	70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	386421	50.0000	
	71 1,2,3-Trichloropropane	75	8.871	8.871	(0.918)	2014	0.25000	0.39(a)
	73 n-Propylbenzene	91	8.927	8.927	(0.924)	5784	0.25000	0.24(a)
	74 Bromobenzene	156	8.818	8.818	(0.913)	1741	0.25000	0.28(a)
	75 1,3,5-Trimethylbenzene	105	9.081	9.081	(0.940)	5918	0.25000	0.33(a)
	76 2-Chlorotoluene	91	8.991	8.991	(0.931)	3339	0.25000	0.21(a)
	77 4-Chlorotoluene	91	9.114	9.114	(0.943)	4046	0.25000	0.23(a)
	78 tert-Butylbenzene	119	9.339	9.339	(0.967)	4275	0.25000	0.28(a)
	79 1,2,4-Trimethylbenzene	105	9.392	9.392	(0.972)	5781	0.25000	0.32(a)
	81 sec-Butylbenzene	105	9.519	9.519	(0.985)	5830	0.25000	0.29(a)
	82 p-Isopropyltoluene	119	9.654	9.654	(0.999)	5470	0.25000	0.29(a)
	83 1,3-Dichlorobenzene	146	9.624	9.624	(0.996)	3790	0.25000	0.35(a)
	84 1,4-Dichlorobenzene	146	9.684	9.684	(1.002)	4376	0.25000	0.37(a)
	88 1,2-Dichlorobenzene	146	10.018	10.018	(1.037)	2842	0.25000	0.27(a)
	93 1,2,3-Trichlorobenzene	180	11.780	11.780	(1.219)	1828	0.25000	0.27(a)
	141 Cyclohexane	56	4.174	4.174	(0.999)	9736	0.25000	1.09(a)
	135 1,4-Dioxane	88	5.621	5.621	(1.345)	272	5.00000	4.45(aM)
	136 n-Hexane	57	2.772	2.772	(0.664)	1827	0.25000	(a)
	139 Diethyl ether	59	1.760	1.760	(0.421)	1325	0.25000	0.27(a)
	149 Isopropyl alcohol	45	2.097	2.097	(0.502)	2990	5.00000	7.43(T)
	166 1,2,3-Trimethylbenzene	105	9.737	9.737	(1.008)	3283	0.25000	0.18(a)
	174 tert-Amyl methyl ether	73	4.665	4.665	(1.117)	5098	0.25000	0.30(Ta)
	175 tert-Butyl ethyl ether	59	3.379	3.379	(0.809)	5067	0.25000	0.23(a)
	176 tert-Amyl alcohol	59	4.646	4.646	(1.112)	1684	5.00000	3.00(a)
	151 4-Methyl-2-pentanol	45	6.734	6.734	(1.356)	10871	5.00000	6.25
	180 1-Methylnaphthalene	142	12.672	12.672	(1.312)	2289	0.25000	(a)
	140 1,3-Butadiene	54	1.171	1.171	(0.280)	1955	0.25000	0.29(a)
M	94 1,2-Dichloroethylene (total)	96				3006	0.50000	(a)
	134 Cyclohexanone	55	8.653	8.653	(0.896)	2370	5.00000	6.88(a)
	150 Allyl alcohol	57	2.772	2.772	(0.664)	1827	5.00000	(a)
	200 Dimethyl Disulfide	94	6.202	6.202	(0.809)	2328	0.25000	0.23(a)

QC Flag Legend

T - Target compound detected outside RT window.
a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230714.b\X071402.D
Date : 14-JUL-2023 12:01
Client ID: VSTD000.25
Sample Info: VSTD000.25;VSTD000.25;1;1;
Purge Volume: 5.0
Column phase: DB624

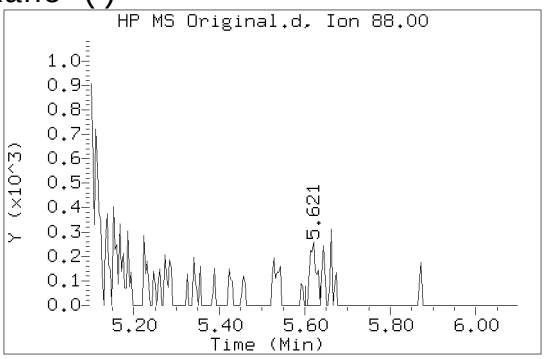
Instrument: voa6.i
Operator: PC
Column diameter: 0.18

Data File : \\NAHSTWS005\Target\chem\voa6.i\X230714.b\X071402.D
Inj Date : 14-JUL-2023 12:01
InstruID : voa6.i
LabSampID : VSTD000.25

1,4-Dioxane ()

Reason Code:

BEFORE
MASS
88
AREA
272
HEIGHT
259
20-Jul-2023
15:04
linh
pham



AFTER
MASS
88
AREA
272
HEIGHT
259
20-Jul-2023
15:04
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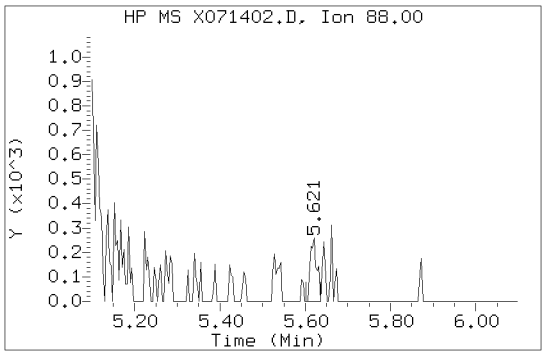

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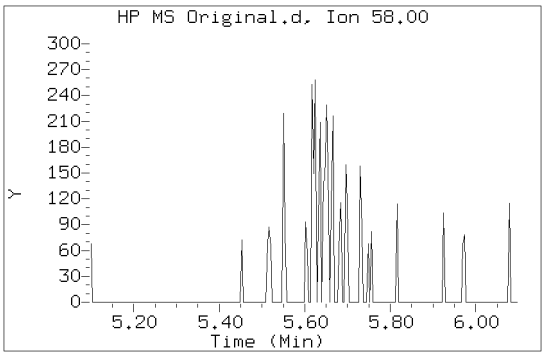

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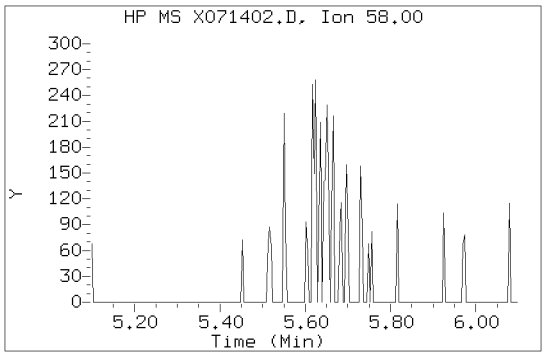

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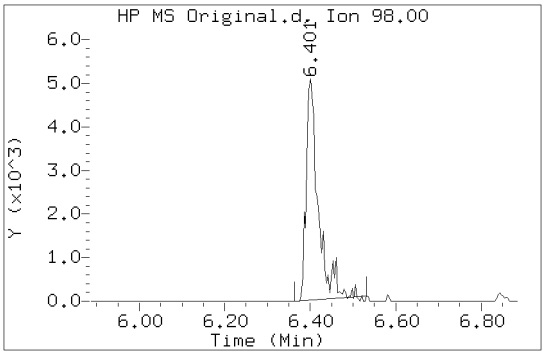

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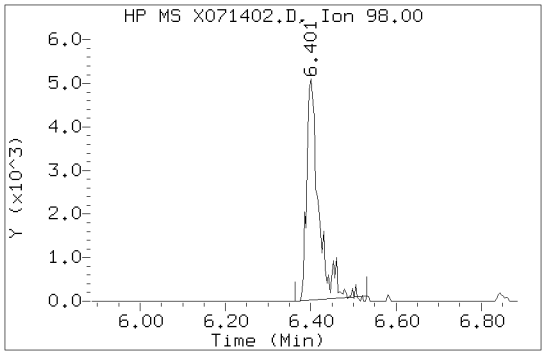

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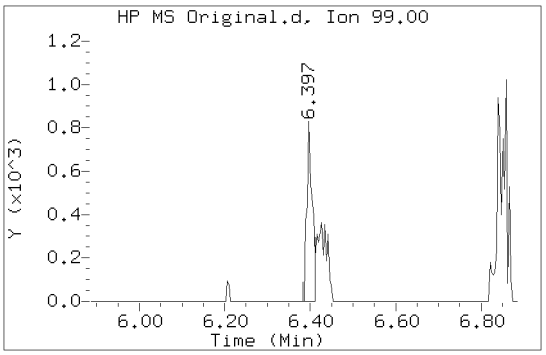

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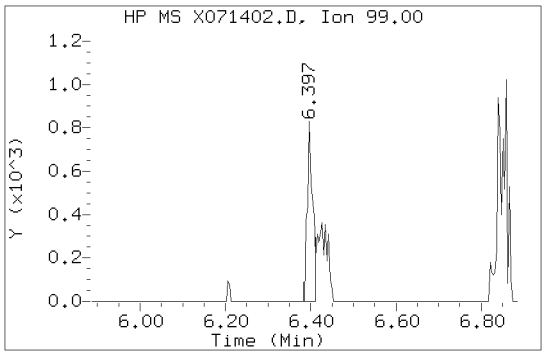

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LabSampID : VSTD000.25

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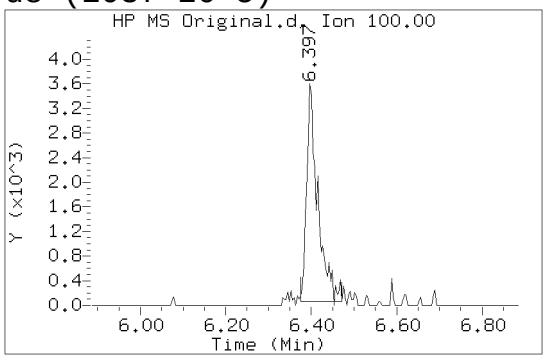

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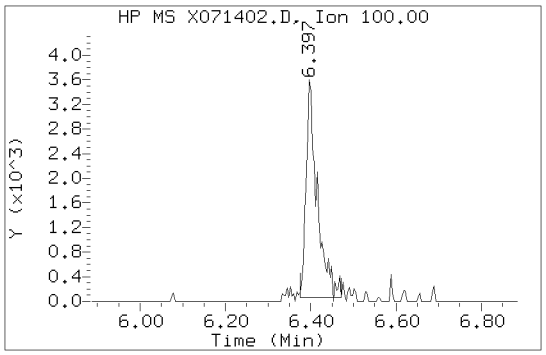

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230714.b\X071403.D Page 1
Report Date: 20-Jul-2023 15:04

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230714.b\X071403.D
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Inj Date : 14-JUL-2023 12:22
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Misc Info : V6;WATER;0;1;
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Cal Date : 14-JUL-2023 12:01 Cal File: X071402.D
Als bottle: 3 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
*	1 Pentafluorobenzene	168	4.181	4.181	(1.000)	503444	50.0000	
	2 Dichlorodifluoromethane	85	0.976	0.976	(0.234)	1663	0.50000	1.41
	3 Chloromethane	50	1.081	1.081	(0.259)	4229	0.50000	0.55
	4 Propionitrile	54	3.701	3.701	(0.885)	5231	5.00000	5.24(aM)
	5 Vinyl Chloride	62	1.145	1.145	(0.274)	3484	0.50000	0.53
	6 Bromomethane	94	1.340	1.340	(0.321)	1399	0.50000	0.51(M)
	7 Chloroethane	64	1.407	1.407	(0.337)	2168	0.50000	0.58(M)
	9 Acrolein	56	1.868	1.868	(0.447)	268	1.00000	2.51(aM)
	12 Isobutyl Alcohol	43	4.695	4.695	(1.123)	9983	10.0000	10.46(a)
	13 Acetonitrile	39	2.213	2.213	(0.529)	3606	5.00000	5.10(aM)
	14 Allyl Chloride	41	2.202	2.202	(0.527)	9843	0.50000	0.59(a)
	15 Iodomethane	142	2.026	2.026	(0.485)	2897	1.00000	4.39(TM)
	16 Acrylonitrile	53	2.539	2.539	(0.607)	3055	1.00000	1.24(M)
	18 Methyl tert-butyl ether	73	2.539	2.539	(0.607)	7187	0.50000	0.52(M)
	19 Carbon Disulfide	76	2.078	2.078	(0.497)	12054	1.00000	1.03
	20 trans-1,2-Dichloroethene	96	2.543	2.543	(0.608)	2557	0.50000	0.59
	21 Vinyl Acetate	43	3.019	3.019	(0.722)	18224	1.00000	1.03(M)
	22 1,1-Dichloroethane	63	2.929	2.929	(0.701)	5250	0.50000	0.56(TM)
	23 Chloroprene	53	1.786	1.786	(0.427)	1292	0.50000	0.57(aM)
	24 2-Butanone	43	3.675	3.675	(0.879)	2827	1.00000	1.05(M)

25 Methacrylonitrile	41	3.893	3.893 (0.931)	3622	0.50000	0.55(aM)
26 2,2-Dichloropropane	77	3.506	3.506 (0.839)	3703	0.50000	0.71(M)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	27 cis-1,2-Dichloroethene	96	3.540	3.540	(0.847)	2924	0.50000	0.53(M)
	28 Chloroform	83	3.911	3.911	(0.935)	5643	0.50000	0.58(M)
	29 Bromochloromethane	128	3.810	3.810	(0.911)	1717	0.50000	0.56(M)
	31 1,1,1-Trichloroethane	97	4.080	4.080	(0.976)	3867	0.50000	0.52
	32 1,1-Dichloropropene	75	4.286	4.286	(0.863)	3744	0.50000	0.57(M)
	33 1,2-Dichloroethane	62	4.564	4.564	(0.919)	5246	0.50000	0.59(M)
	34 Carbon Tetrachloride	117	4.256	4.256	(0.857)	3613	0.50000	0.54(M)
*	36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	802287	50.0000	
	37 Benzene	78	4.526	4.526	(0.912)	10488	0.50000	0.54
	38 Trichloroethene	130	5.216	5.216	(1.051)	2909	0.50000	0.53(a)
	39 Bromodichloromethane	83	5.737	5.737	(1.156)	4539	0.50000	0.61(aM)
	40 Methyl Methacrylate	41	5.636	5.636	(1.348)	3261	0.50000	0.53(aM)
	41 2-Chloroethylvinyl ether	63	6.082	6.082	(1.225)	2206	1.00000	0.98(aM)
	42 1,2-Dichloropropane	63	5.448	5.448	(1.097)	3473	0.50000	0.56(aM)
	43 2-Nitropropane	43	5.984	5.984	(1.431)	1174	0.50000	0.58(aM)
	44 Dibromomethane	93	5.568	5.568	(1.122)	1988	0.50000	0.56(a)
	45 4-Methyl-2-Pentanone	43	6.348	6.348	(0.828)	8626	1.00000	1.19(a)
	46 cis-1,3-Dichloropropene	75	6.168	6.168	(1.242)	4937	0.50000	0.58(a)
*	47 Chlorobenzene-d5	117	7.667	7.667	(1.000)	735322	50.0000	
$	48 Toluene-d8	98	6.400	6.400	(0.835)	10379	0.50000	0.54(aM)
	49 Ethyl Methacrylate	69	6.727	6.727	(1.355)	2780	0.50000	0.52(aM)
	50 Toluene	91	6.453	6.453	(0.842)	10040	0.50000	0.50(a)
	51 trans-1,3-Dichloropropene	75	6.700	6.700	(1.350)	3980	0.50000	0.55(a)
	52 2-Hexanone	43	7.113	7.113	(0.928)	4470	1.00000	0.94(aM)
	53 1,1,2-Trichloroethane	83	6.843	6.843	(0.892)	2223	0.50000	0.52(aM)
	54 1,3-Dichloropropane	76	6.993	6.993	(0.912)	5041	0.50000	0.58(a)
	55 Dibromochloromethane	129	7.184	7.184	(0.937)	3132	0.50000	0.51(aM)
	56 Tetrachloroethene	164	6.933	6.933	(0.904)	1790	0.50000	0.43(a)
	57 1,2-Dibromoethane	107	7.270	7.270	(0.948)	2613	0.50000	0.54(a)
	58 1-Chlorohexane	55	7.701	7.701	(1.551)	3459	0.50000	0.53(aM)
	59 Chlorobenzene	112	7.694	7.694	(1.003)	7907	0.50000	0.57(aM)
	60 1,1,1,2-Tetrachloroethane	131	7.776	7.776	(1.014)	3008	0.50000	0.55(aM)
	61 Ethylbenzene	106	7.802	7.802	(1.018)	3909	0.50000	0.56(aM)
	62 m,p-Xylenes	106	7.907	7.907	(1.031)	8550	1.00000	0.98(a)
	63 o-Xylene	106	8.256	8.256	(1.077)	4414	0.50000	0.53(aM)
	64 Styrene	104	8.290	8.290	(1.081)	8133	0.50000	0.56(aM)
	66 Bromoform	173	8.417	8.417	(1.098)	1973	0.50000	0.50(Ta)
	67 Isopropylbenzene	105	8.563	8.563	(1.117)	10697	0.50000	0.50(a)
	68 1,1,2,2-Tetrachloroethane	83	8.848	8.848	(0.916)	3654	0.50000	0.56(aM)
$	69 4-Bromofluorobenzene	95	8.702	8.702	(1.135)	7819	0.50000	0.64(aM)
*	70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	386891	50.0000	
	71 1,2,3-Trichloropropane	75	8.871	8.871	(0.918)	2737	0.50000	0.53(aM)
	72 trans-1,4-Dichloro-2-butene	53	8.927	8.927	(1.164)	1124	0.50000	0.50(aM)
	73 n-Propylbenzene	91	8.927	8.927	(0.924)	11407	0.50000	0.48(a)
	74 Bromobenzene	156	8.818	8.818	(0.913)	3201	0.50000	0.52(aM)
	75 1,3,5-Trimethylbenzene	105	9.077	9.077	(0.939)	9580	0.50000	0.54(a)
	76 2-Chlorotoluene	91	8.983	8.983	(0.930)	8487	0.50000	0.53(aM)
	77 4-Chlorotoluene	91	9.088	9.088	(0.941)	8710	0.50000	0.50(a)
	78 tert-Butylbenzene	119	9.339	9.339	(0.967)	8109	0.50000	0.53(a)
	79 1,2,4-Trimethylbenzene	105	9.392	9.392	(0.972)	10172	0.50000	0.57(aM)
	81 sec-Butylbenzene	105	9.523	9.523	(0.986)	9247	0.50000	0.46(aM)
	82 p-Isopropyltoluene	119	9.651	9.651	(0.999)	9771	0.50000	0.53(aM)

83 1,3-Dichlorobenzene	146	9.609	9.609 (0.995)	5980	0.50000	0.56(a)
84 1,4-Dichlorobenzene	146	9.681	9.681 (1.002)	6395	0.50000	0.55(a)

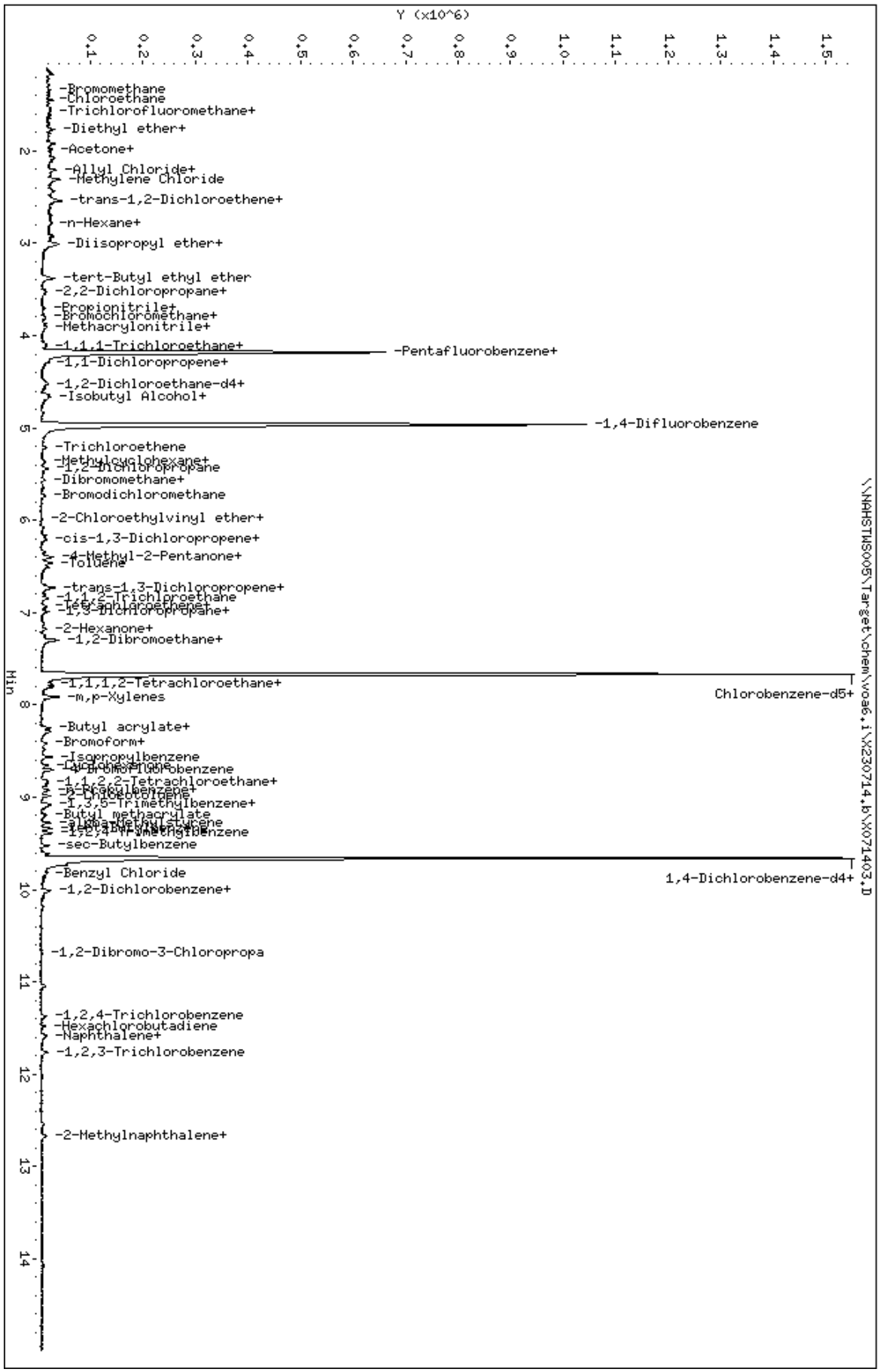
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
86	Benzyl Chloride	91	9.827	9.827	(1.282)	6245	0.50000	2.82(aM)
87	n-Butylbenzene	91	10.014	10.014	(1.036)	7141	0.50000	0.46(aM)
88	1,2-Dichlorobenzene	146	10.010	10.010	(1.036)	5252	0.50000	0.50(a)
89	1,2-Dibromo-3-Chloropropane	155	10.681	10.681	(1.106)	675	0.50000	1.70(aM)
90	1,2,4-Trichlorobenzene	180	11.371	11.371	(1.177)	4099	0.50000	0.57(aM)
91	Hexachlorobutadiene	225	11.484	11.484	(1.189)	1357	0.50000	2.74(aM)
92	Naphthalene	128	11.574	11.574	(1.198)	10357	0.50000	0.58(aM)
93	1,2,3-Trichlorobenzene	180	11.761	11.761	(1.217)	3845	0.50000	0.57(aM)
146	Methyl acetate	43	2.232	2.232	(0.534)	2344	0.50000	0.52(aM)
141	Cyclohexane	56	4.163	4.163	(0.996)	4321	0.50000	0.49(aM)
142	Tetrahydrofuran	42	3.870	3.870	(0.926)	1418	1.00000	1.09(aM)
147	Methylcyclohexane	55	5.366	5.366	(1.081)	9168	0.50000	0.54(aM)
135	1,4-Dioxane	88	5.624	5.624	(1.345)	692	10.0000	11.56(aM)
132	n-Butanol	56	5.355	5.355	(1.281)	1626	10.0000	9.70(aM)
131	Methyl Acrylate	55	3.750	3.750	(0.897)	3365	0.50000	0.49(aM)
133	Ethyl Acrylate	55	5.366	5.366	(1.283)	8232	0.50000	0.49(aM)
136	n-Hexane	57	2.787	2.787	(0.667)	2320	0.50000	(aM)
139	Diethyl ether	59	1.767	1.767	(0.423)	2605	0.50000	0.55(a)
148	Tert-butyl alcohol	59	2.442	2.442	(0.584)	7856	10.0000	12.36(M)
149	Isopropyl alcohol	45	2.105	2.105	(0.503)	4548	10.0000	11.53(T)
156	Diisopropyl ether	45	3.008	3.008	(0.719)	10814	0.50000	0.52(Ta)
166	1,2,3-Trimethylbenzene	105	9.737	9.737	(1.008)	9020	0.50000	0.50(a)
167	Ethanol	45	1.696	1.696	(0.406)	1082	10.0000	(aM)
172	tert-Butyl formate	59	4.646	4.646	(1.111)	6083	1.00000	1.13(aM)
173	3,3-Dimethyl-1-butanol	57	7.296	7.296	(0.952)	10397	10.0000	13.14(M)
174	tert-Amyl methyl ether	73	4.669	4.669	(1.117)	9377	0.50000	0.56(TaM)
175	tert-Butyl ethyl ether	59	3.390	3.390	(0.811)	12508	0.50000	0.58(a)
176	tert-Amyl alcohol	59	4.646	4.646	(1.111)	6083	10.0000	11.06(M)
151	4-Methyl-2-pentanol	45	6.723	6.723	(1.354)	20217	10.0000	11.75(M)
180	1-Methylnaphthalene	142	12.672	12.672	(1.312)	3667	0.50000	(a)
140	1,3-Butadiene	54	1.167	1.167	(0.279)	3203	0.50000	0.49(a)
152	Amyl alcohol	42	6.970	6.970	(0.909)	2120	10.0000	10.02(M)
158	Dichlorofluoromethane	67	1.538	1.538	(0.368)	4296	0.50000	0.52(M)
159	Propylene oxide	43	1.801	1.801	(0.431)	615	1.00000	0.99(aM)
161	3-Methyl-1-butanol	55	6.948	6.948	(0.906)	1945	10.0000	10.74(M)
162	Butyl acrylate	55	8.286	8.286	(1.081)	6783	0.50000	0.48(a)
163	Butyl methacrylate	41	9.182	9.182	(0.950)	4724	0.50000	0.50(aM)
182	Epichlorohydrin	57	6.127	6.127	(1.234)	1233	2.00000	2.05(aM)
M 94	1,2-Dichloroethylene (total)	96				5481	1.00000	(a)
130	Ethyl Acetate	43	3.690	3.690	(0.883)	4291	0.50000	0.57(aM)
134	Cyclohexanone	55	8.653	8.653	(0.896)	4174	10.0000	12.11(aM)
185	Isoprene	39	1.756	1.756	(0.420)	843	0.50000	0.50(aM)
188	Isopropyl acetate	43	4.695	4.695	(0.946)	11581	0.50000	0.54(a)
187	n-Amyl acetate	43	8.477	8.477	(1.106)	7447	0.50000	0.55(aM)
189	n-Butyl acetate	43	7.248	7.248	(0.945)	6398	0.50000	0.56(aM)
150	Allyl alcohol	57	2.787	2.787	(0.667)	2068	10.0000	(aM)
194	Acetaldehyde	44	1.212	1.212	(0.290)	32460	2.00000	57.33
195	Methyl Amyl Ketone	43	8.413	8.413	(1.097)	8863	0.50000	0.57(a)
200	Dimethyl Disulfide	94	6.213	6.213	(0.810)	4899	0.50000	0.49(a)

QC Flag Legend

T - Target compound detected outside RT window.
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

QC Flag Legend

M - Compound response manually integrated.



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Client ID: VSTD000,5
Sample Info: VSTD000,5;VSTD000,5;1;2;
Purge Volume: 5,0
Column phase: DB624

\\NAHSTWS005\Target\chem\voa6,i\X230714,b\X071403,D

Instrument: voa6,i
Operator: PC
Column diameter: 0,18

Data File : \\NAHSTWS005\Target\chem\voa6.i\X230714.b\X071403.D
Inj Date : 14-JUL-2023 12:22
InstruID : voa6.i
LabSampID : VSTD000.5

Bromomethane (74-83-9)

Reason Code:

BEFORE
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20-Jul-2023
15:04
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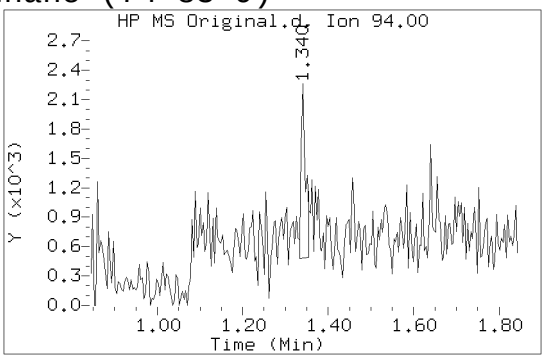

AFTER
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20-Jul-2023
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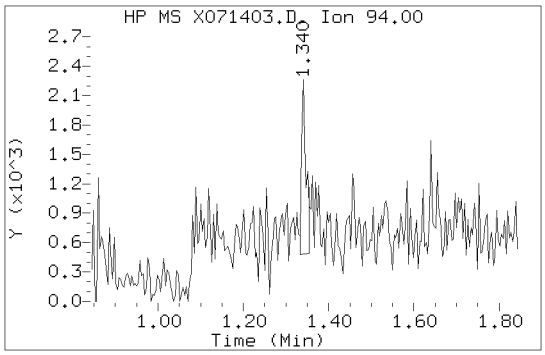
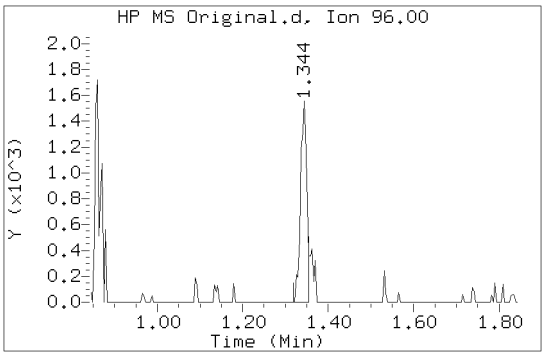
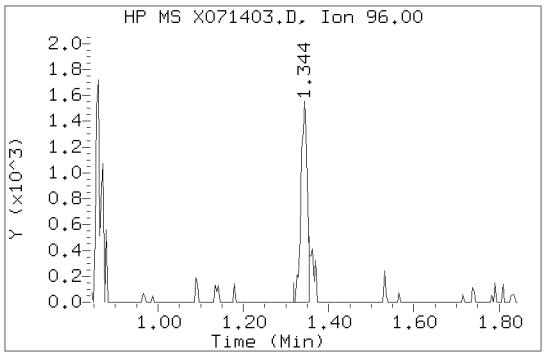
linh
pham



BEFORE
MASS
96
AREA
1662
HEIGHT
1558
20-Jul-2023
15:04
linh
pham



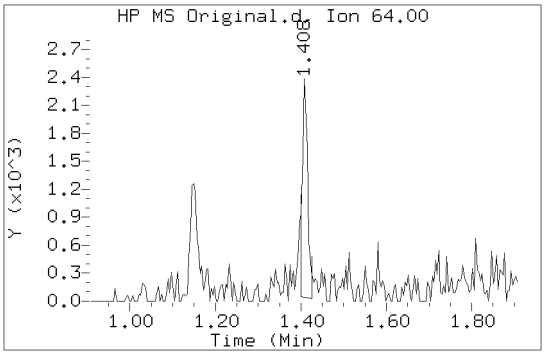
AFTER
MASS
96
AREA
1662
HEIGHT
1558
20-Jul-2023
15:04
linh
pham



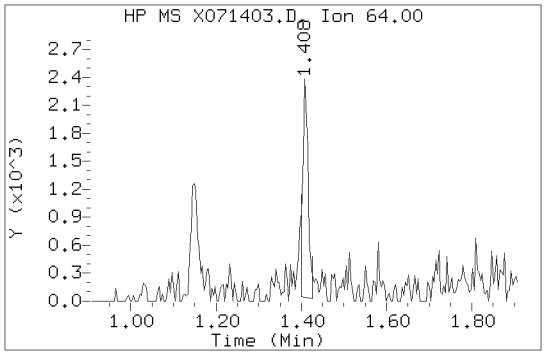
Chloroethane (75-00-3)

Reason Code:

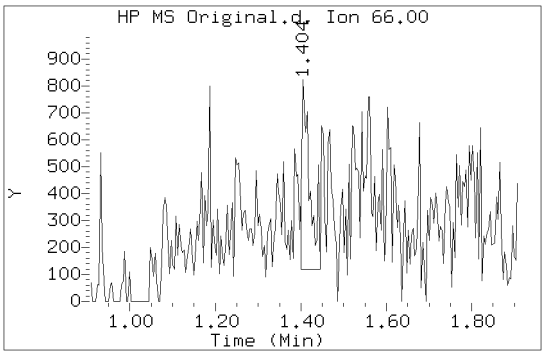
BEFORE
MASS
64
AREA
2168
HEIGHT
2339
20-Jul-2023
15:04
linh
pham



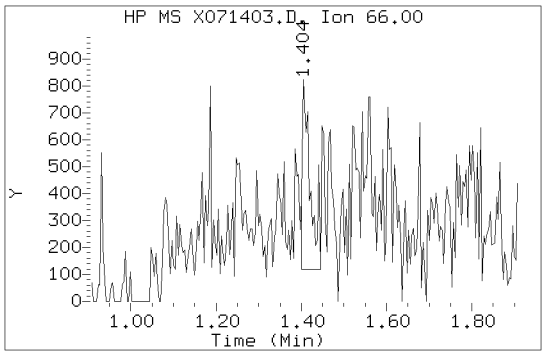
AFTER
MASS
64
AREA
2168
HEIGHT
2339
20-Jul-2023
15:04
linh
pham



BEFORE
MASS
66
AREA
934
HEIGHT
704
20-Jul-2023
15:04
linh
pham



AFTER
MASS
66
AREA
934
HEIGHT
704
20-Jul-2023
15:04
linh
pham



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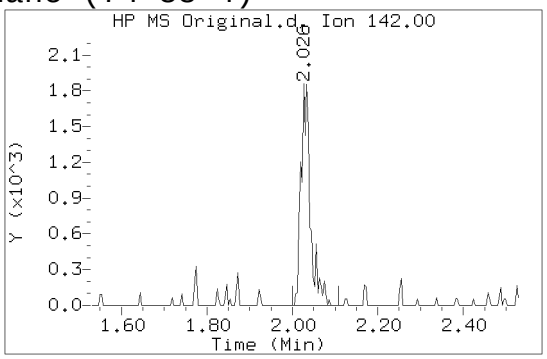
Inj Date : 14-JUL-2023 12:22
InstruID : voa6.i
LabSampID : VSTD000.5

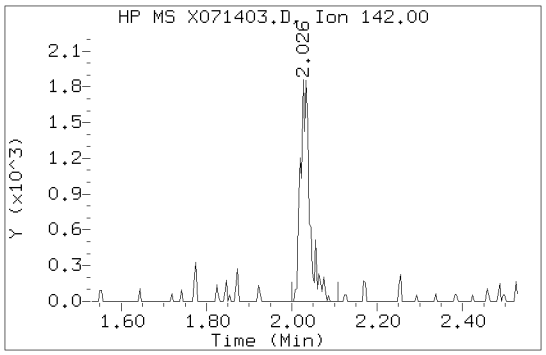
Iodomethane (74-88-4)

Reason Code:

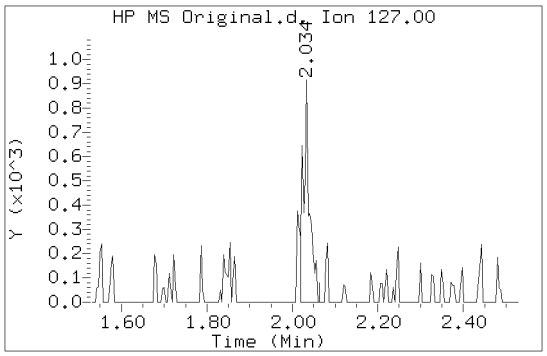
BEFORE
MASS
142
AREA
2897
HEIGHT
1860
20-Jul-2023
15:04
linh
pham



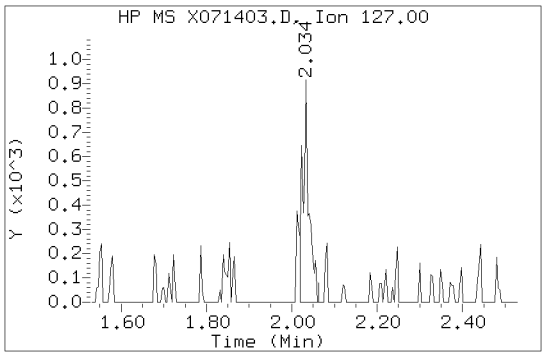
AFTER
MASS
142
AREA
2897
HEIGHT
1860
20-Jul-2023
15:04
linh
pham



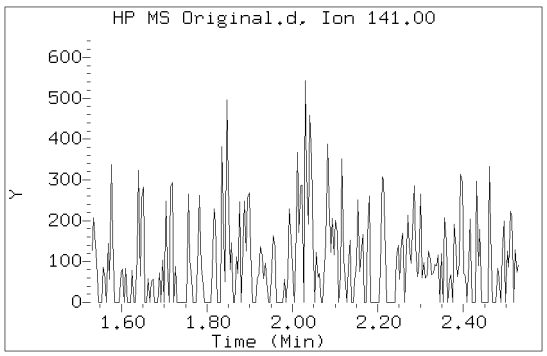
BEFORE
MASS
127
AREA
955
HEIGHT
916
20-Jul-2023
15:04
linh
pham



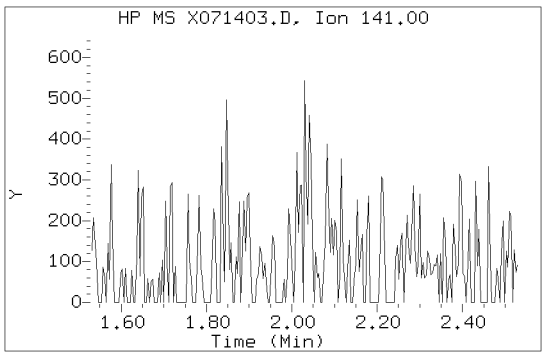
AFTER
MASS
127
AREA
955
HEIGHT
916
20-Jul-2023
15:04
linh
pham



BEFORE
MASS
141
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham



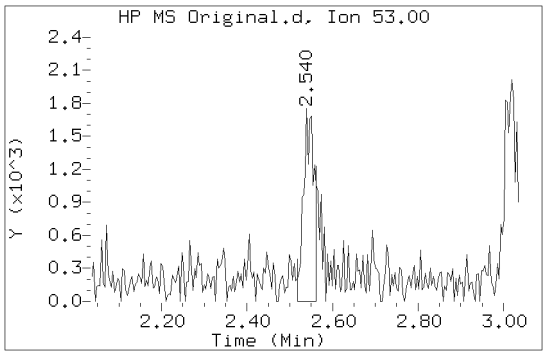
AFTER
MASS
141
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham



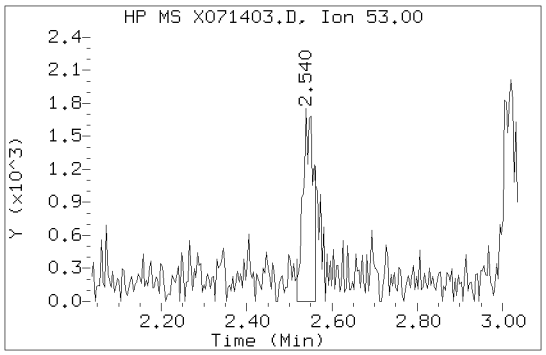
Acrylonitrile (107-13-1)

Reason Code:

BEFORE
MASS
53
AREA
3055
HEIGHT
1753
20-Jul-2023
15:04
linh
pham



AFTER
MASS
53
AREA
3055
HEIGHT
1753
20-Jul-2023
15:04
linh
pham



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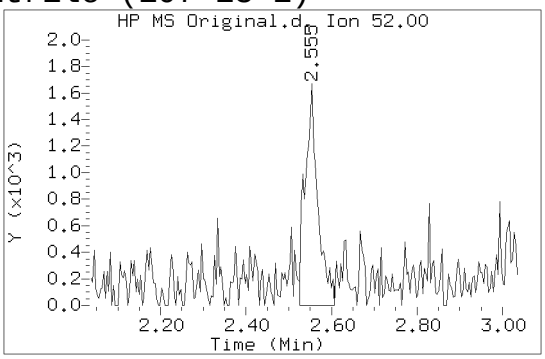
Inj Date : 14-JUL-2023 12:22
InstruID : voa6.i
LabSampID : VSTD000.5

Acrylonitrile (107-13-1)

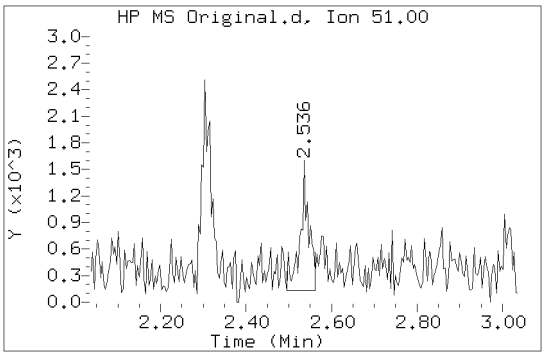
BEFORE

MASS
52
AREA
3501
HEIGHT
1670
20-Jul-2023
15:04
linh
pham



BEFORE

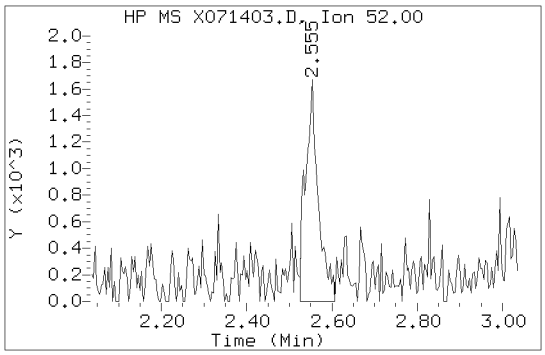
MASS
51
AREA
2140
HEIGHT
1479
20-Jul-2023
15:04
linh
pham



Reason Code:

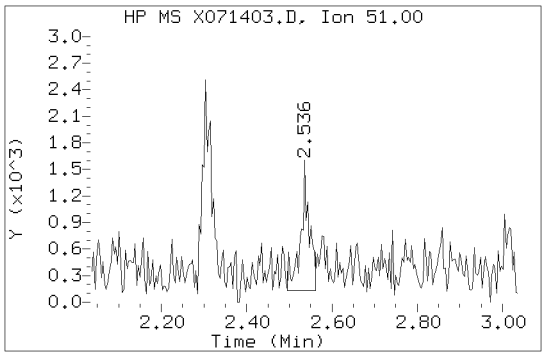
AFTER

MASS
52
AREA
3501
HEIGHT
1670
20-Jul-2023
15:04
linh
pham



AFTER

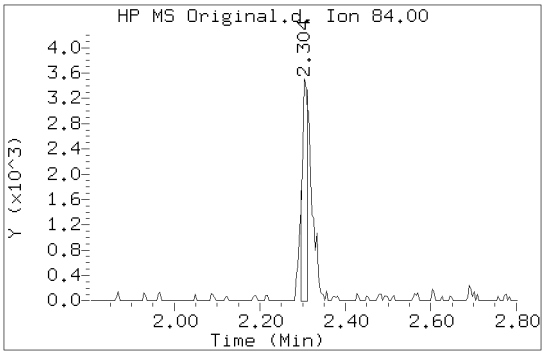
MASS
51
AREA
2140
HEIGHT
1479
20-Jul-2023
15:04
linh
pham



Methylene Chloride (75-09-2)

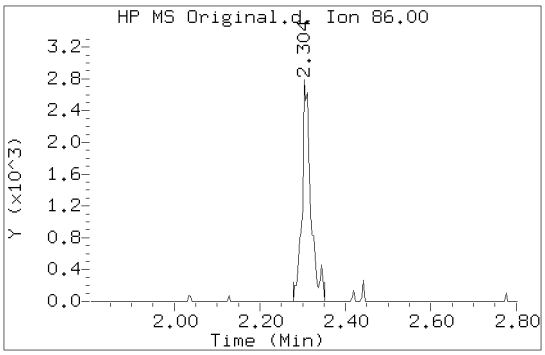
BEFORE

MASS
84
AREA
3115
HEIGHT
3513
20-Jul-2023
15:04
linh
pham



BEFORE

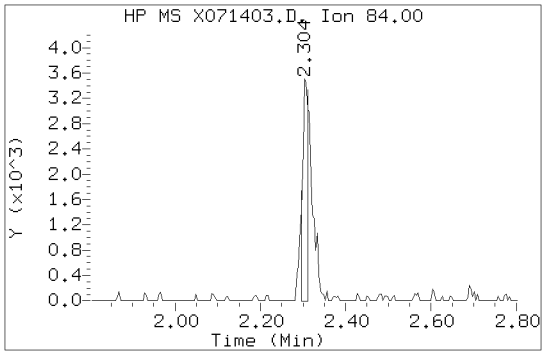
MASS
86
AREA
4061
HEIGHT
2789
20-Jul-2023
15:04
linh
pham



Reason Code:

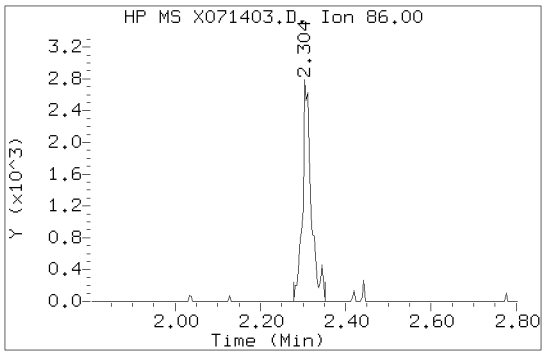
AFTER

MASS
84
AREA
3115
HEIGHT
3513
20-Jul-2023
15:04
linh
pham



AFTER

MASS
86
AREA
4061
HEIGHT
2789
20-Jul-2023
15:04
linh
pham



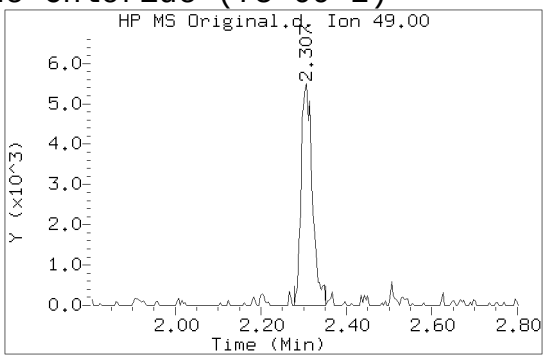
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230714.b\X071403.D
Inj Date : 14-JUL-2023 12:22
InstruID : voa6.i
LabSampID : VSTD000.5

Methylene Chloride (75-09-2)

Reason Code:

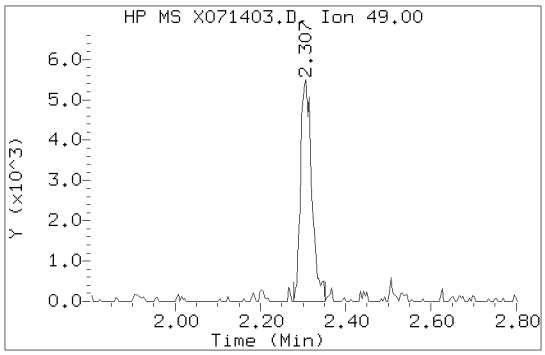
BEFORE

MASS
49
AREA
10268
HEIGHT
5500
20-Jul-2023
15:04
linh
pham



AFTER

MASS
49
AREA
10268
HEIGHT
5500
20-Jul-2023
15:04
linh
pham

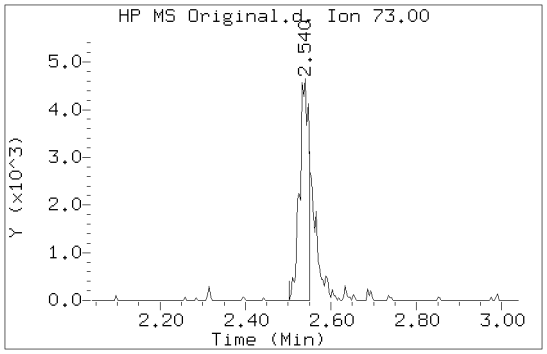


Methyl tert-butyl ether (1634-04-4)

Reason Code:

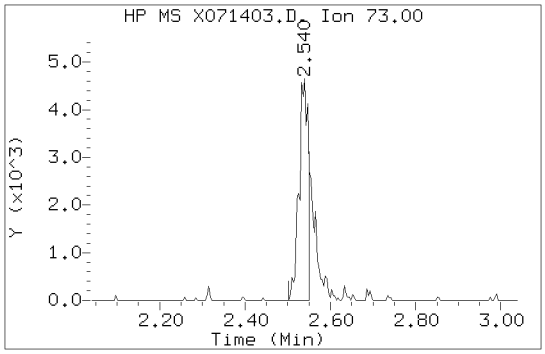
BEFORE

MASS
73
AREA
7187
HEIGHT
4650
20-Jul-2023
15:04
linh
pham



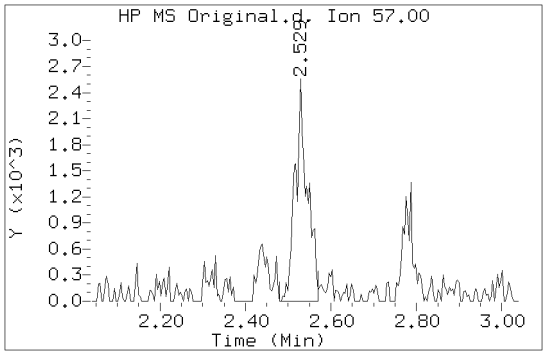
AFTER

MASS
73
AREA
7187
HEIGHT
4650
20-Jul-2023
15:04
linh
pham



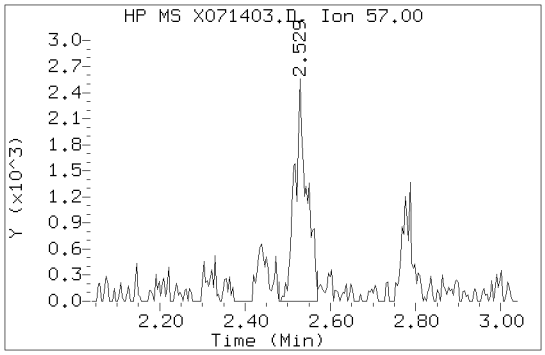
BEFORE

MASS
57
AREA
5084
HEIGHT
2558
20-Jul-2023
15:04
linh
pham



AFTER

MASS
57
AREA
5084
HEIGHT
2558
20-Jul-2023
15:04
linh
pham

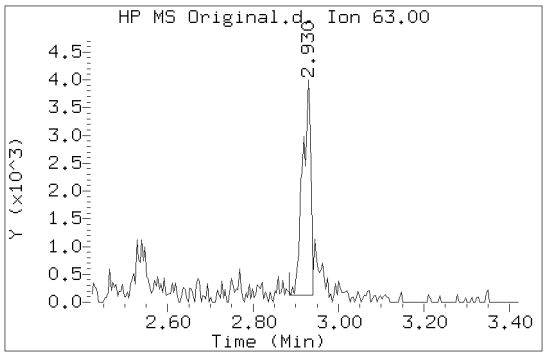


1,1-Dichloroethane (75-34-3)

Reason Code:

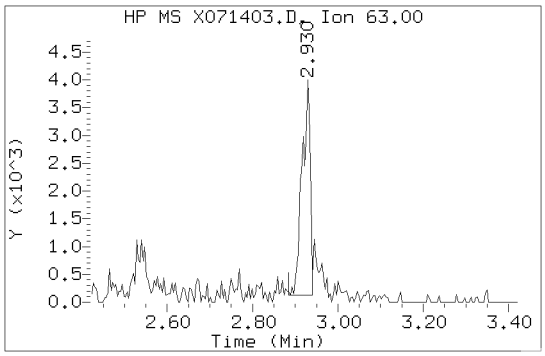
BEFORE

MASS
63
AREA
5250
HEIGHT
3871
20-Jul-2023
15:04
linh
pham



AFTER

MASS
63
AREA
5250
HEIGHT
3871
20-Jul-2023
15:04
linh
pham



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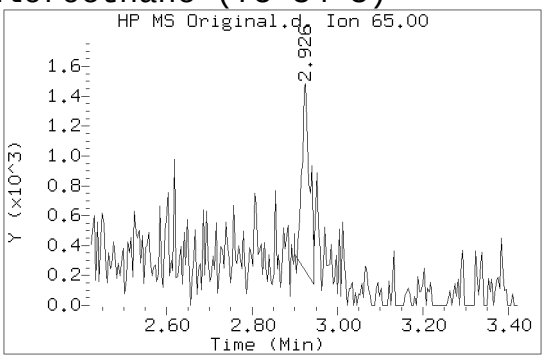
Inj Date : 14-JUL-2023 12:22
InstruID : voa6.i
LabSampID : VSTD000.5

1,1-Dichloroethane (75-34-3)

Reason Code:

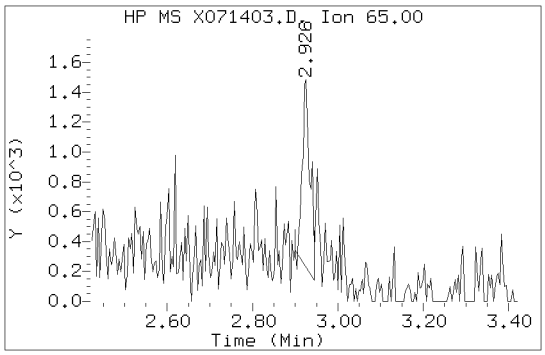
BEFORE

MASS
65
AREA
1602
HEIGHT
1258
20-Jul-2023
15:04
linh
pham



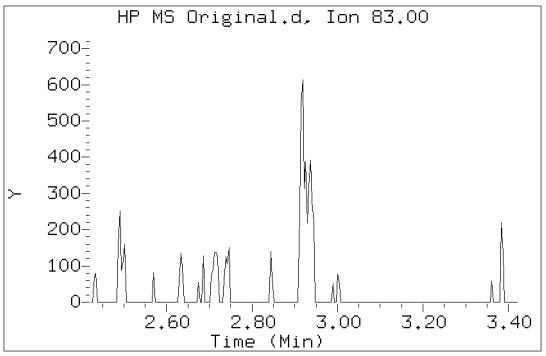
AFTER

MASS
65
AREA
1602
HEIGHT
1258
20-Jul-2023
15:04
linh
pham



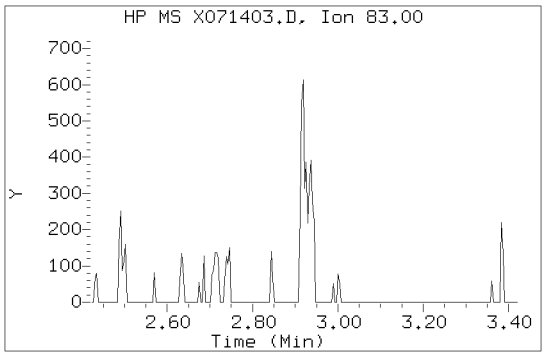
BEFORE

MASS
83
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham



AFTER

MASS
83
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham

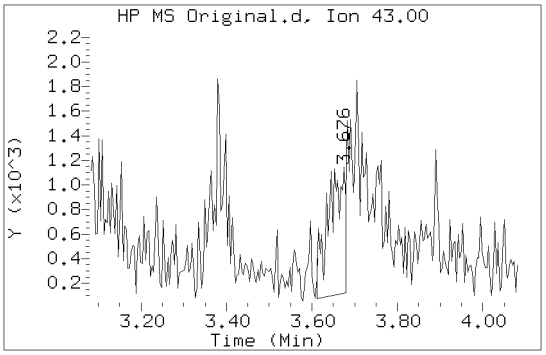


2-Butanone (78-93-3)

Reason Code:

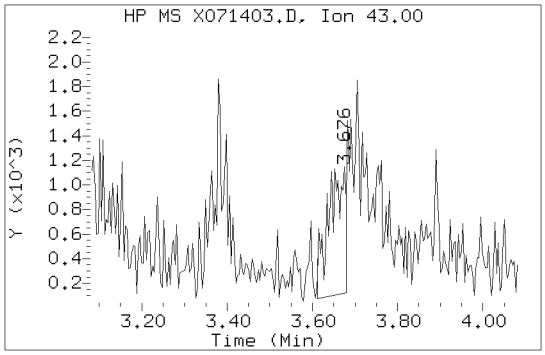
BEFORE

MASS
43
AREA
2827
HEIGHT
1024
20-Jul-2023
15:04
linh
pham



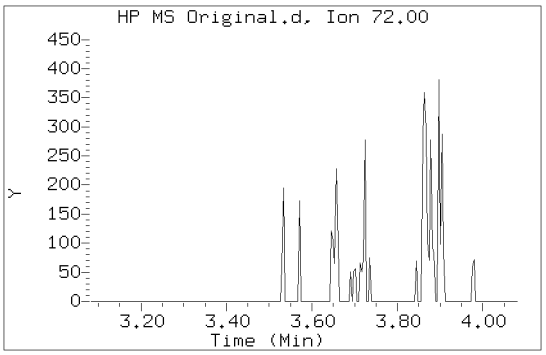
AFTER

MASS
43
AREA
2827
HEIGHT
1024
20-Jul-2023
15:04
linh
pham



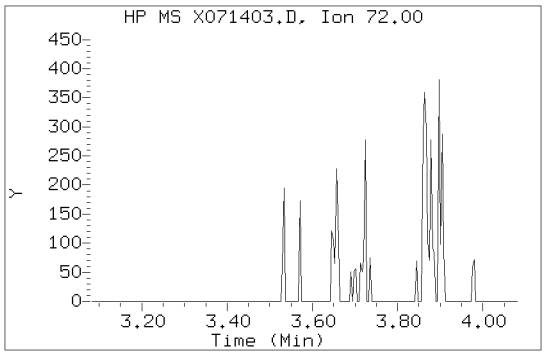
BEFORE

MASS
72
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham



AFTER

MASS
72
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham

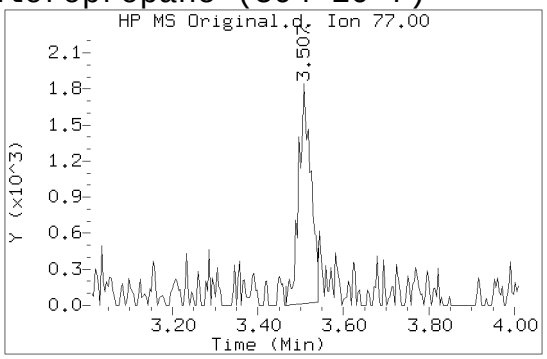


Data File : \\NAHSTWS005\Target\chem\voa6.i\X230714.b\X071403.D
Inj Date : 14-JUL-2023 12:22
InstruID : voa6.i
LabSampID : VSTD000.5

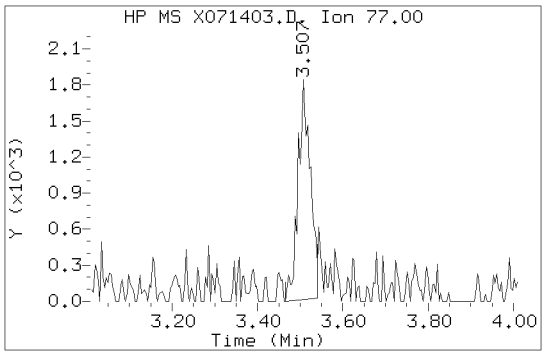
2,2-Dichloropropane (594-20-7)

Reason Code:

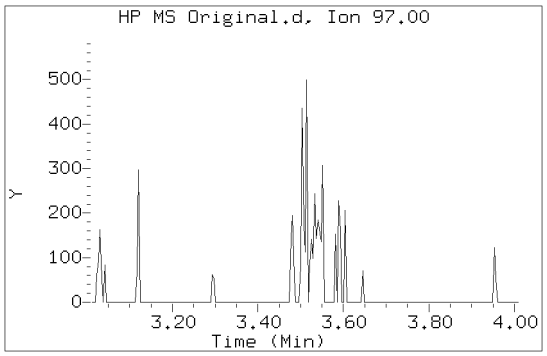
BEFORE
MASS
77
AREA
3703
HEIGHT
1829
20-Jul-2023
15:04
linh
pham



AFTER
MASS
77
AREA
3703
HEIGHT
1829
20-Jul-2023
15:04
linh
pham



BEFORE
MASS
97
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham



AFTER
MASS
97
AREA
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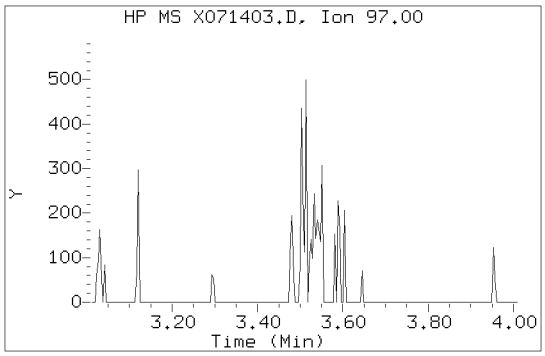
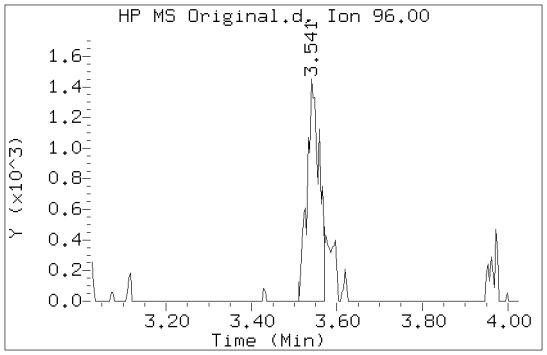
HEIGHT
0
20-Jul-2023
15:04
linh
pham



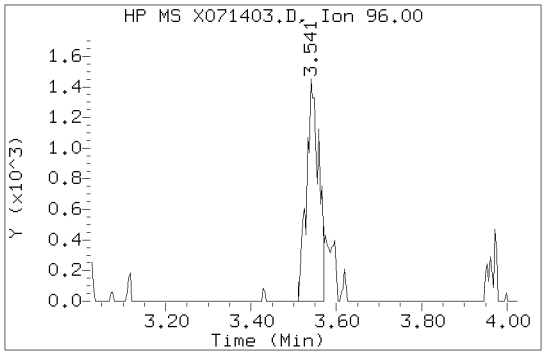
cis-1,2-Dichloroethene (156-59-2)

Reason Code:

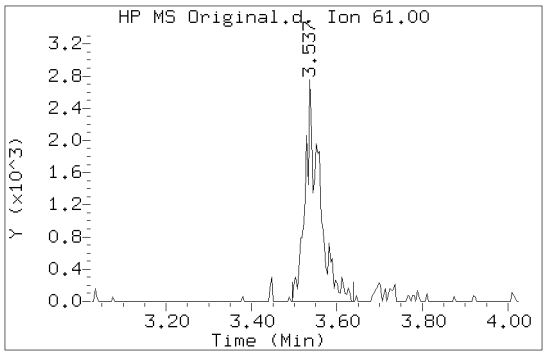
BEFORE
MASS
96
AREA
2924
HEIGHT
1452
20-Jul-2023
15:04
linh
pham



AFTER
MASS
96
AREA
2924
HEIGHT
1452
20-Jul-2023
15:04
linh
pham



BEFORE
MASS
61
AREA
6464
HEIGHT
2755
20-Jul-2023
15:04
linh
pham



AFTER
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61
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6464
HEIGHT
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20-Jul-2023
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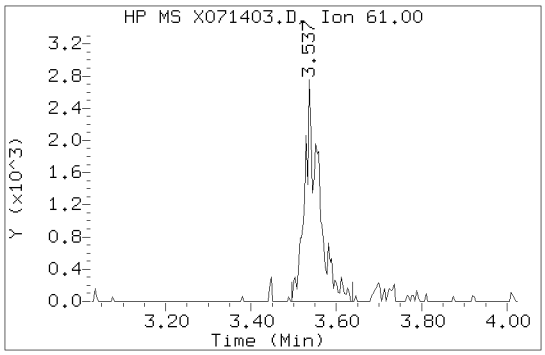
pham



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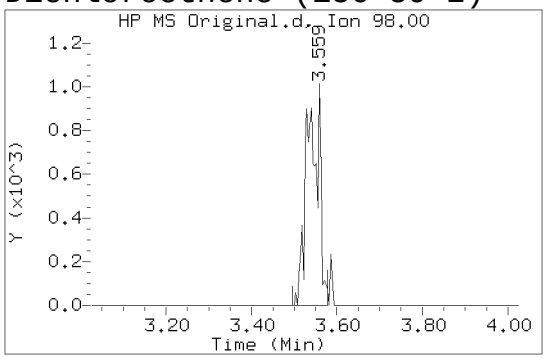
Inj Date : 14-JUL-2023 12:22
InstruID : voa6.i
LabSampID : VSTD000.5

cis-1,2-Dichloroethene (156-59-2)

Reason Code:

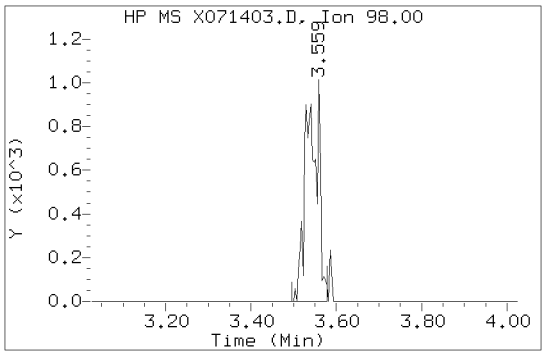
BEFORE

MASS
98
AREA
2118
HEIGHT
1014
20-Jul-2023
15:04
linh
pham



AFTER

MASS
98
AREA
2118
HEIGHT
1014
20-Jul-2023
15:04
linh
pham

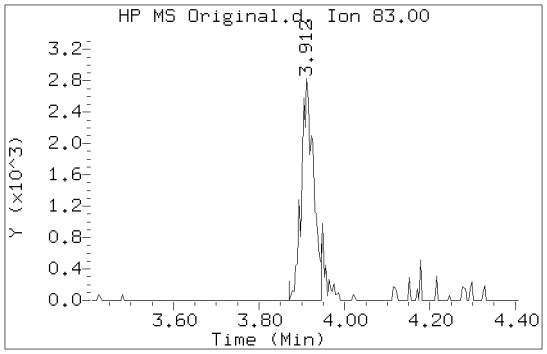


Chloroform (67-66-3)

Reason Code:

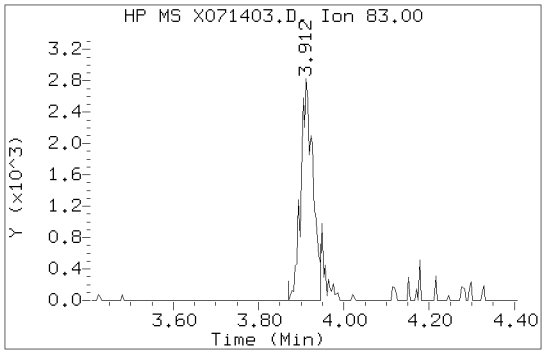
BEFORE

MASS
83
AREA
5643
HEIGHT
2826
20-Jul-2023
15:04
linh
pham



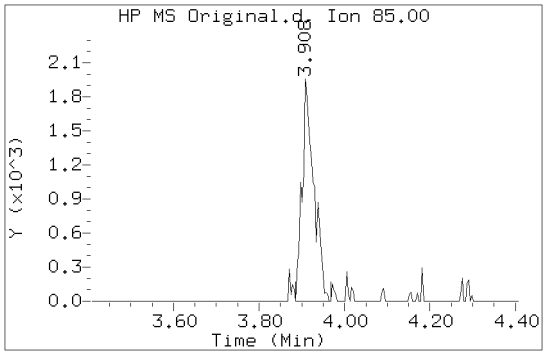
AFTER

MASS
83
AREA
5643
HEIGHT
2826
20-Jul-2023
15:04
linh
pham



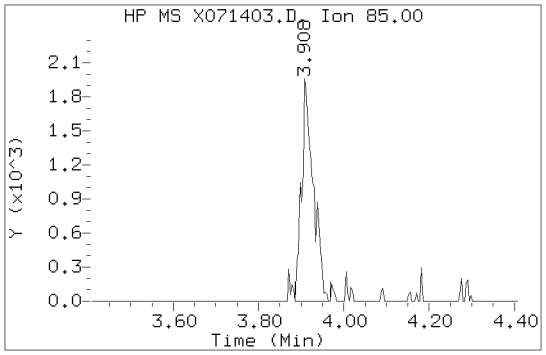
BEFORE

MASS
85
AREA
3815
HEIGHT
1958
20-Jul-2023
15:04
linh
pham



AFTER

MASS
85
AREA
3815
HEIGHT
1958
20-Jul-2023
15:04
linh
pham

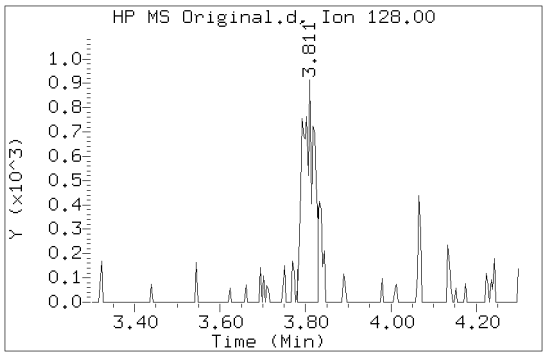


Bromochloromethane (74-97-5)

Reason Code:

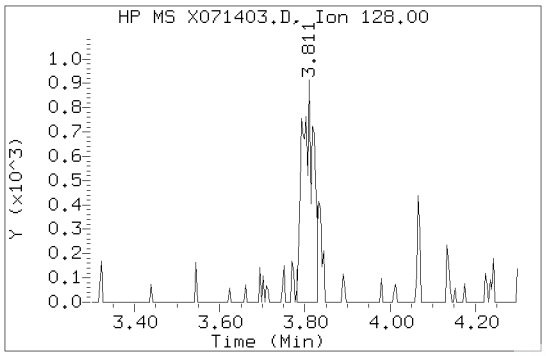
BEFORE

MASS
128
AREA
1717
HEIGHT
914
20-Jul-2023
15:04
linh
pham



AFTER

MASS
128
AREA
1717
HEIGHT
914
20-Jul-2023
15:04
linh
pham



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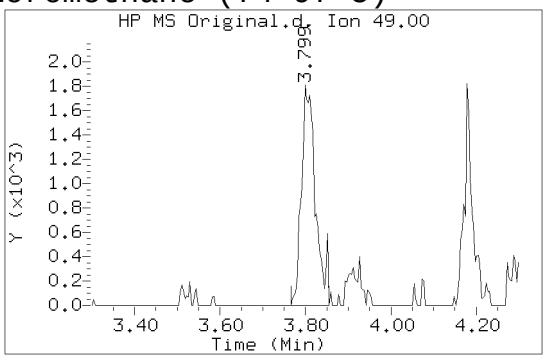
Inj Date : 14-JUL-2023 12:22
InstruID : voa6.i
LabSampID : VSTD000.5

Bromochloromethane (74-97-5)

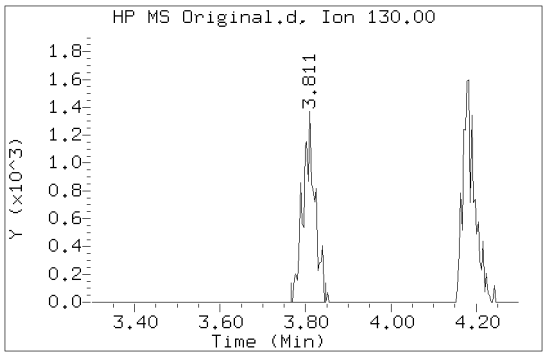
BEFORE

MASS
49
AREA
4173
HEIGHT
1811
20-Jul-2023
15:04
linh
pham



BEFORE

MASS
130
AREA
2643
HEIGHT
1372
20-Jul-2023
15:04
linh
pham



Reason Code:

AFTER

MASS
49
AREA
4173
HEIGHT
1811
20-Jul-2023
15:04
linh
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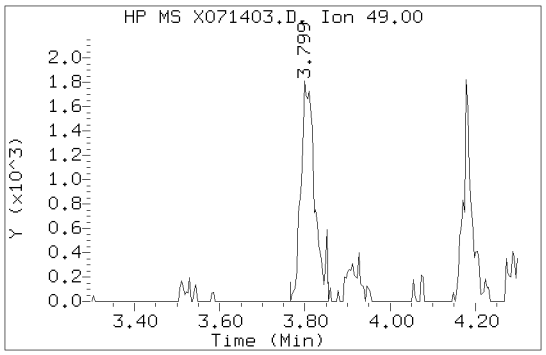
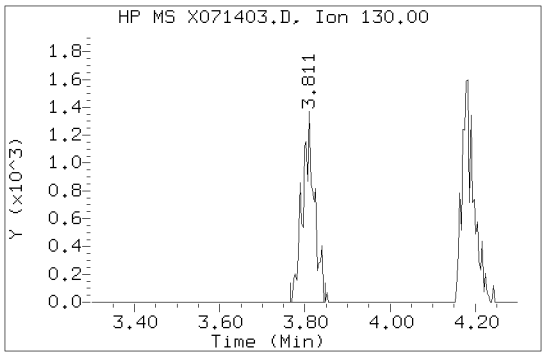


AFTER

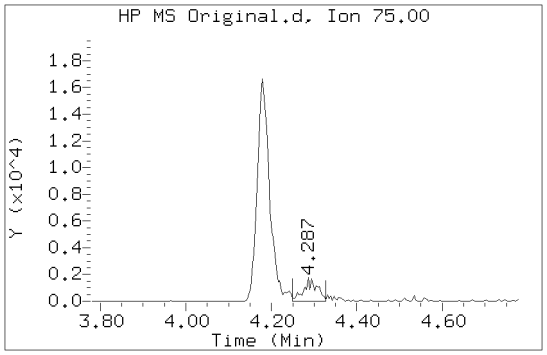
MASS
130
AREA
2643
HEIGHT
1372
20-Jul-2023
15:04
linh
pham



1,1-Dichloropropene (563-58-6)

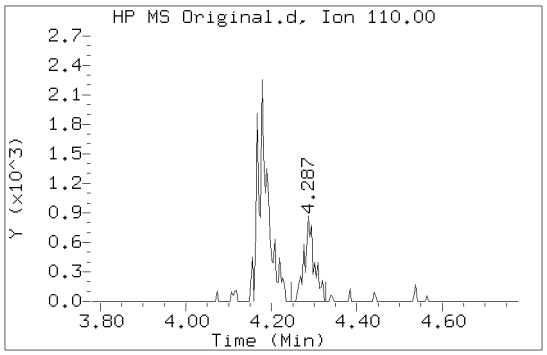
BEFORE

MASS
75
AREA
3744
HEIGHT
1770
20-Jul-2023
15:04
linh
pham



BEFORE

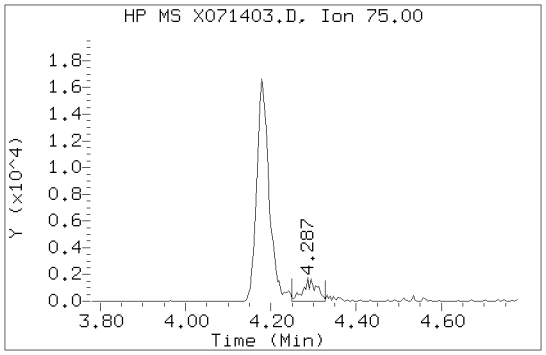
MASS
110
AREA
1389
HEIGHT
866
20-Jul-2023
15:04
linh
pham



Reason Code:

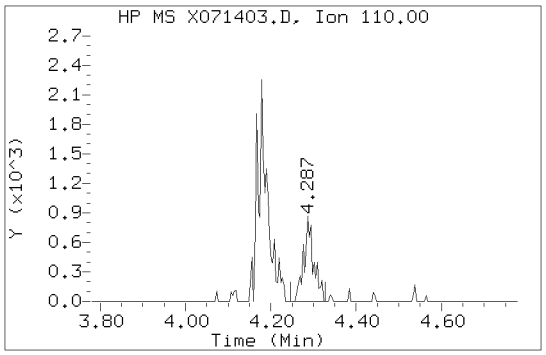
AFTER

MASS
75
AREA
3744
HEIGHT
1770
20-Jul-2023
15:04
linh
pham



AFTER

MASS
110
AREA
1389
HEIGHT
866
20-Jul-2023
15:04
linh
pham



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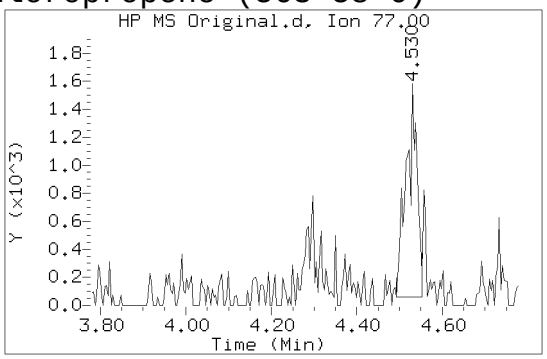
Inj Date : 14-JUL-2023 12:22
InstruID : voa6.i
LabSampID : VSTD000.5

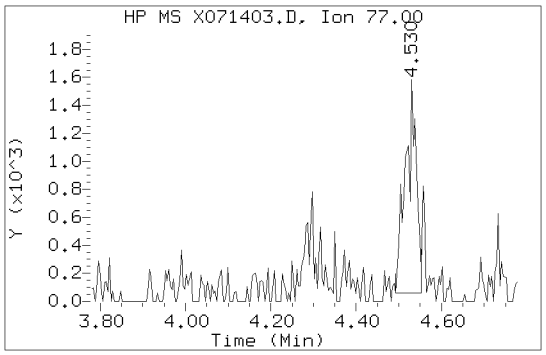
1,1-Dichloropropene (563-58-6)

Reason Code:

BEFORE
MASS
77
AREA
2714
HEIGHT
1524
20-Jul-2023
15:04
linh
pham



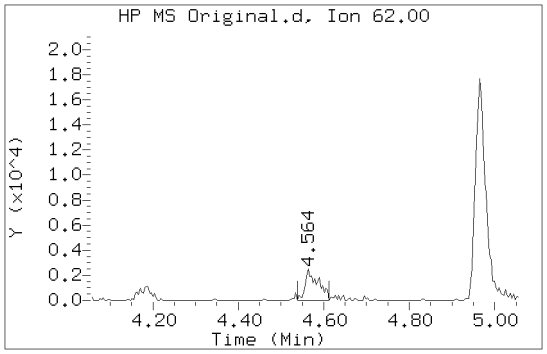
AFTER
MASS
77
AREA
2714
HEIGHT
1524
20-Jul-2023
15:04
linh
pham



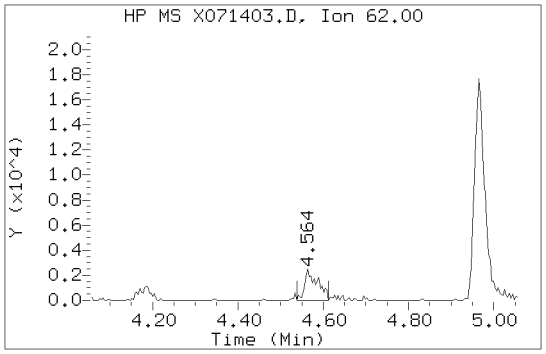
1,2-Dichloroethane (107-06-2)

Reason Code:

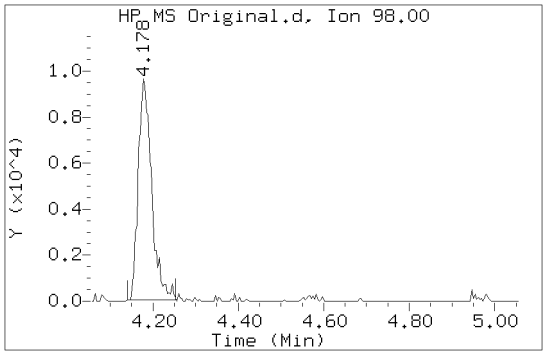
BEFORE
MASS
62
AREA
5246
HEIGHT
2498
20-Jul-2023
15:04
linh
pham



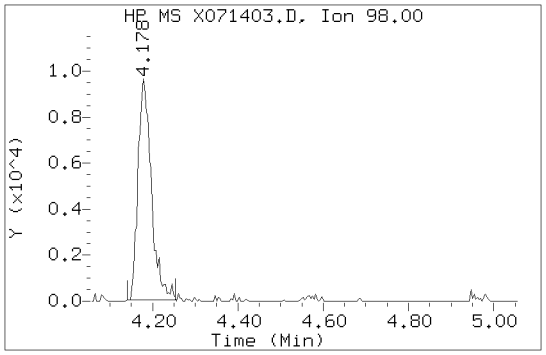
AFTER
MASS
62
AREA
5246
HEIGHT
2498
20-Jul-2023
15:04
linh
pham



BEFORE
MASS
98
AREA
20890
HEIGHT
9608
20-Jul-2023
15:04
linh
pham



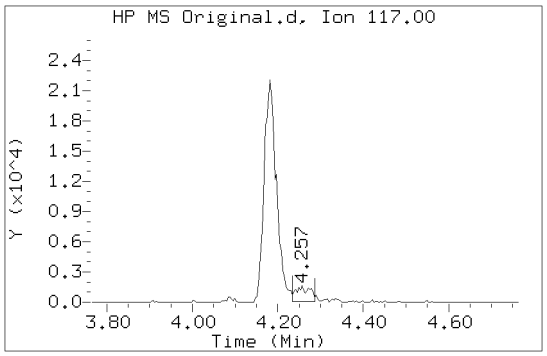
AFTER
MASS
98
AREA
20890
HEIGHT
9608
20-Jul-2023
15:04
linh
pham



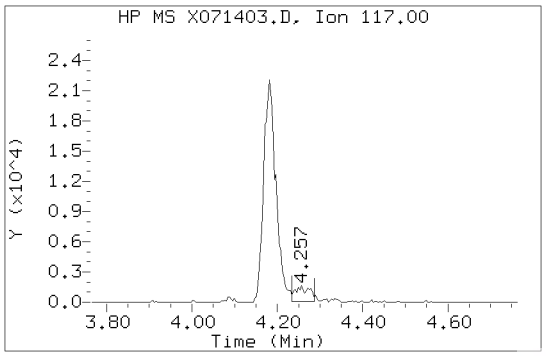
Carbon Tetrachloride (56-23-5)

Reason Code:

BEFORE
MASS
117
AREA
3613
HEIGHT
1577
20-Jul-2023
15:04
linh
pham



AFTER
MASS
117
AREA
3613
HEIGHT
1577
20-Jul-2023
15:04
linh
pham



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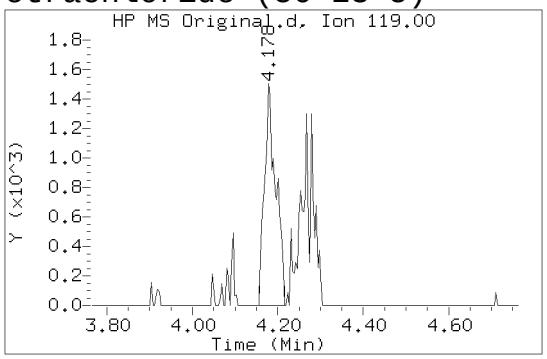
Inj Date : 14-JUL-2023 12:22
InstruID : voa6.i
LabSampID : VSTD000.5

Carbon Tetrachloride (56-23-5)

Reason Code:

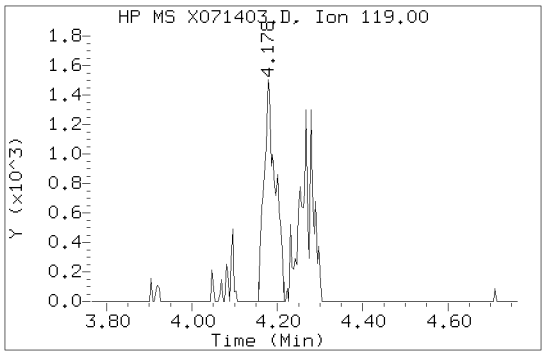
BEFORE

MASS
119
AREA
2769
HEIGHT
1504
20-Jul-2023
15:04
linh
pham



AFTER

MASS
119
AREA
2769
HEIGHT
1504
20-Jul-2023
15:04
linh
pham

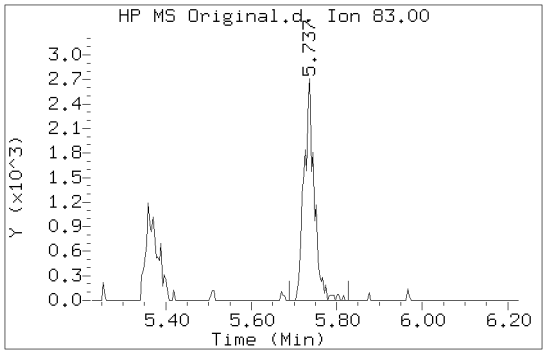


Bromodichloromethane (75-27-4)

Reason Code:

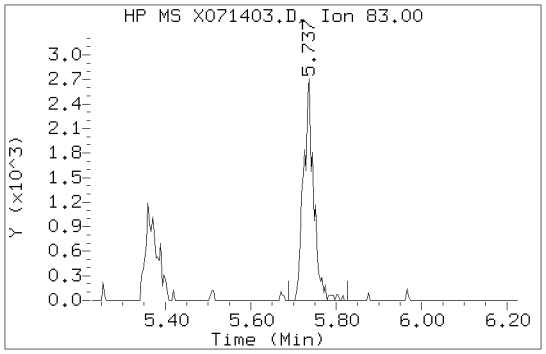
BEFORE

MASS
83
AREA
4539
HEIGHT
2709
20-Jul-2023
15:04
linh
pham



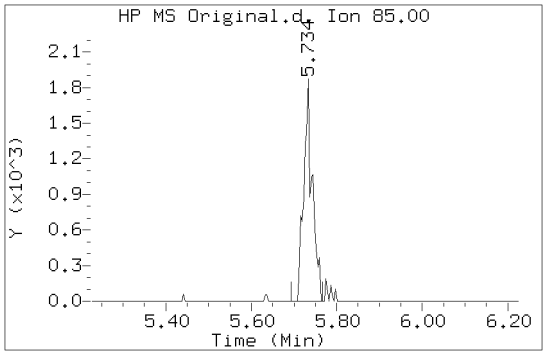
AFTER

MASS
83
AREA
4539
HEIGHT
2709
20-Jul-2023
15:04
linh
pham



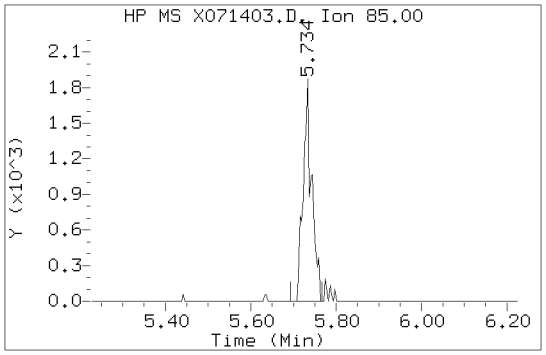
BEFORE

MASS
85
AREA
2648
HEIGHT
1873
20-Jul-2023
15:04
linh
pham



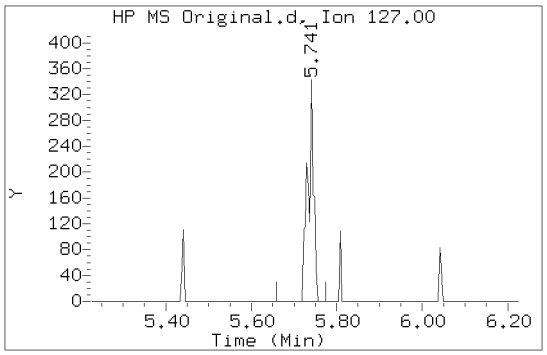
AFTER

MASS
85
AREA
2648
HEIGHT
1873
20-Jul-2023
15:04
linh
pham



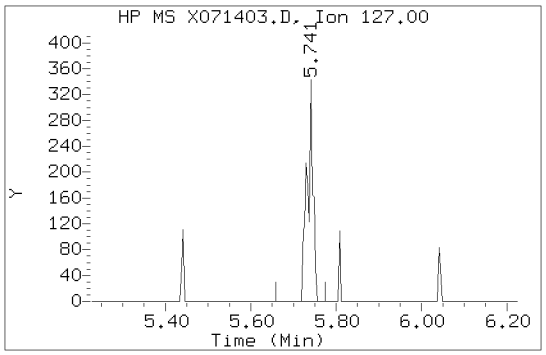
BEFORE

MASS
127
AREA
328
HEIGHT
343
20-Jul-2023
15:04
linh
pham



AFTER

MASS
127
AREA
328
HEIGHT
343
20-Jul-2023
15:04
linh
pham



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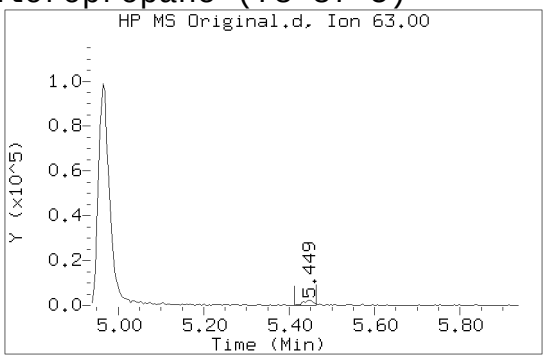
Inj Date : 14-JUL-2023 12:22
InstruID : voa6.i
LabSampID : VSTD000.5

1,2-Dichloropropane (78-87-5)

Reason Code:

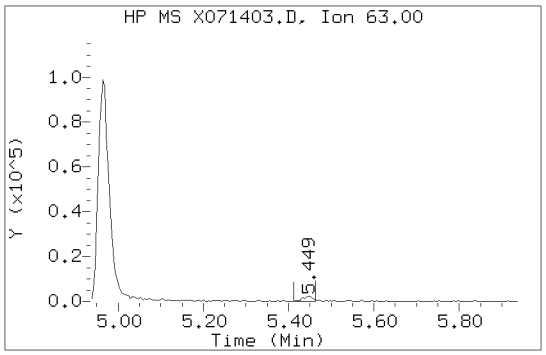
BEFORE

MASS
63
AREA
3473
HEIGHT
2209
20-Jul-2023
15:04
linh
pham



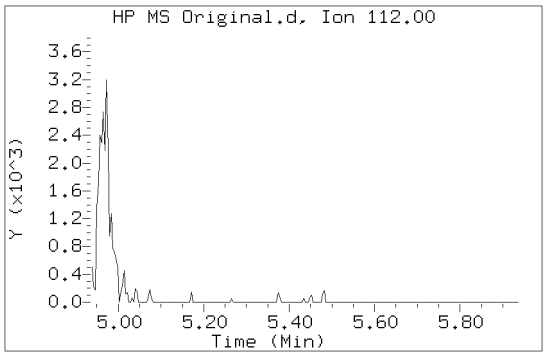
AFTER

MASS
63
AREA
3473
HEIGHT
2209
20-Jul-2023
15:04
linh
pham



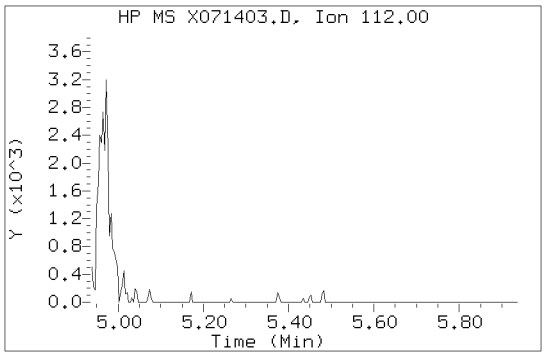
BEFORE

MASS
112
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham



AFTER

MASS
112
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham

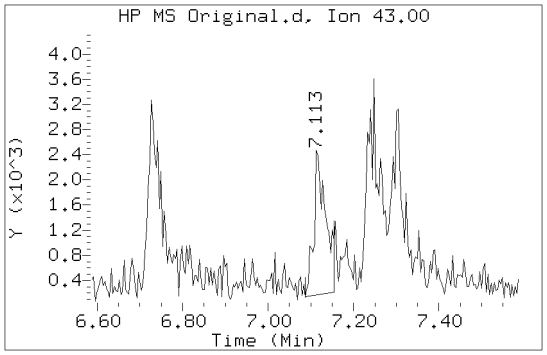


2-Hexanone (591-78-6)

Reason Code:

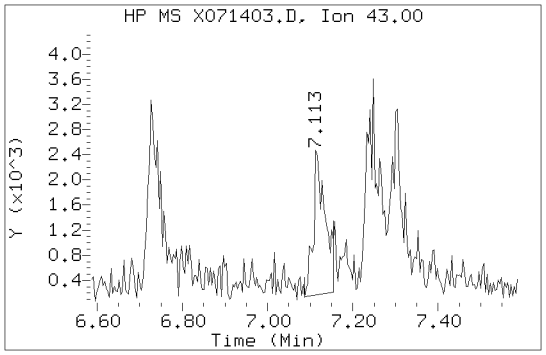
BEFORE

MASS
43
AREA
4470
HEIGHT
2301
20-Jul-2023
15:04
linh
pham



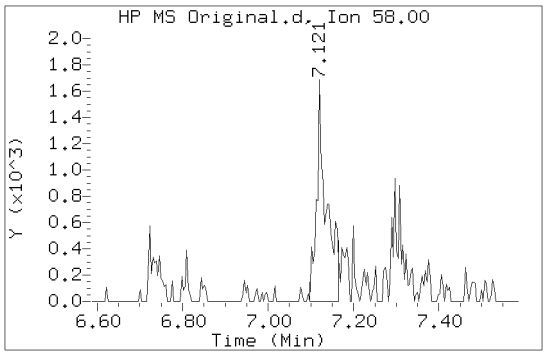
AFTER

MASS
43
AREA
4470
HEIGHT
2301
20-Jul-2023
15:04
linh
pham



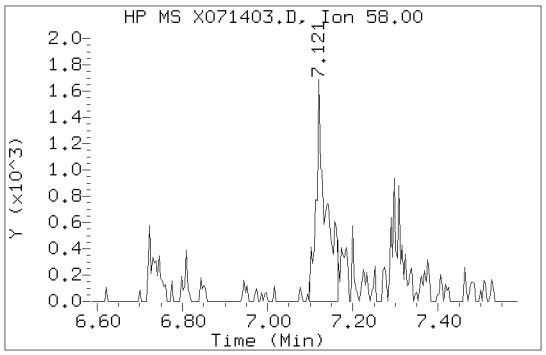
BEFORE

MASS
58
AREA
2664
HEIGHT
1687
20-Jul-2023
15:04
linh
pham



AFTER

MASS
58
AREA
2664
HEIGHT
1687
20-Jul-2023
15:04
linh
pham



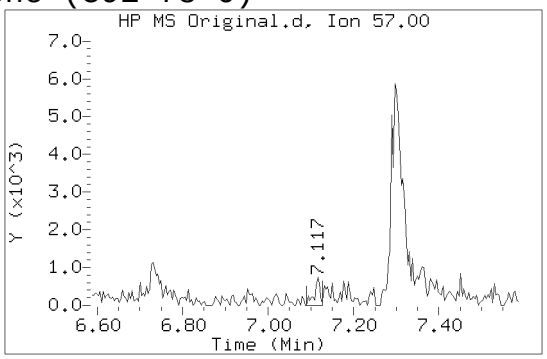
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230714.b\X071403.D
Inj Date : 14-JUL-2023 12:22
InstruID : voa6.i
LabSampID : VSTD000.5

2-Hexanone (591-78-6)

Reason Code:

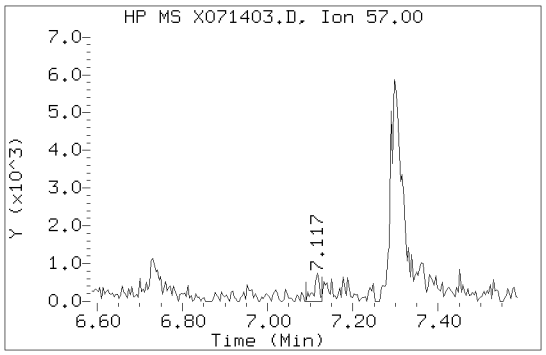
BEFORE

MASS
57
AREA
683
HEIGHT
740
20-Jul-2023
15:04
linh
pham



AFTER

MASS
57
AREA
683
HEIGHT
740
20-Jul-2023
15:04
linh
pham

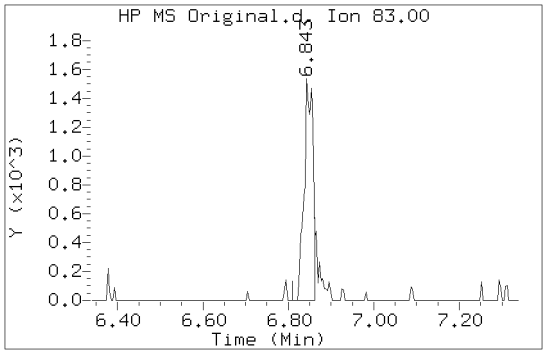


1,1,2-Trichloroethane (79-00-5)

Reason Code:

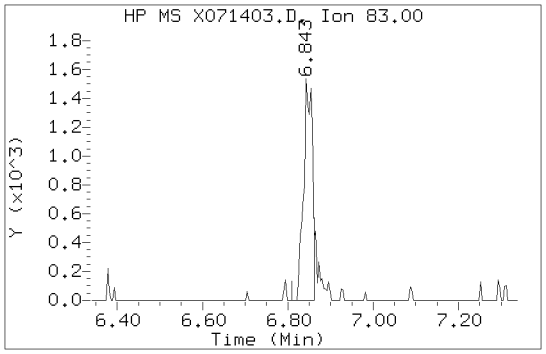
BEFORE

MASS
83
AREA
2223
HEIGHT
1536
20-Jul-2023
15:04
linh
pham



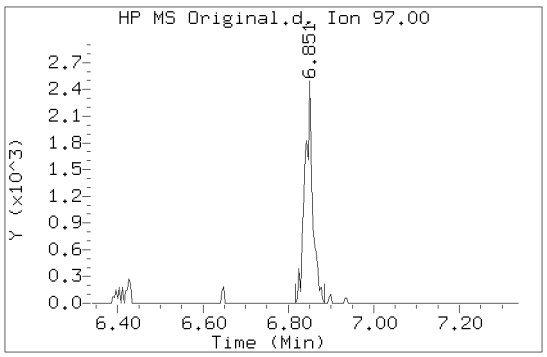
AFTER

MASS
83
AREA
2223
HEIGHT
1536
20-Jul-2023
15:04
linh
pham



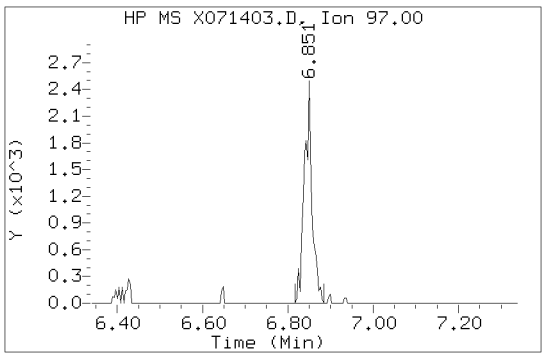
BEFORE

MASS
97
AREA
3209
HEIGHT
2495
20-Jul-2023
15:04
linh
pham



AFTER

MASS
97
AREA
3209
HEIGHT
2495
20-Jul-2023
15:04
linh
pham

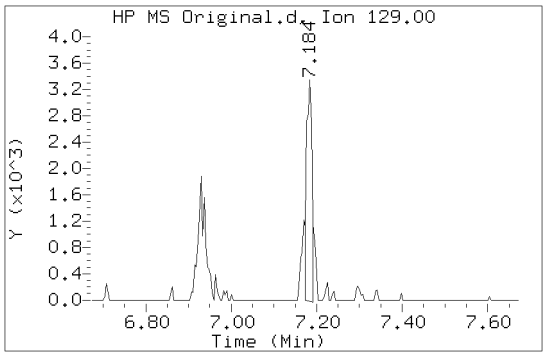


Dibromochloromethane (124-48-1)

Reason Code:

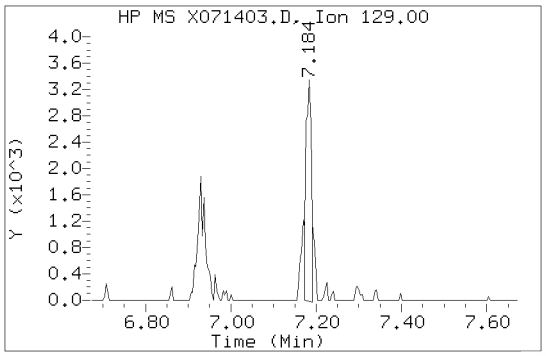
BEFORE

MASS
129
AREA
3132
HEIGHT
3366
20-Jul-2023
15:04
linh
pham



AFTER

MASS
129
AREA
3132
HEIGHT
3366
20-Jul-2023
15:04
linh
pham

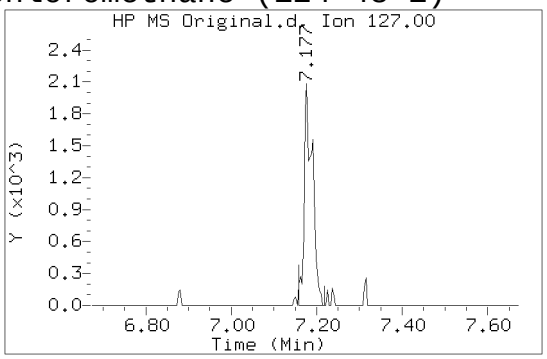


Data File : \\NAHSTWS005\Target\chem\voa6.i\X230714.b\X071403.D
Inj Date : 14-JUL-2023 12:22
InstruID : voa6.i
LabSampID : VSTD000.5

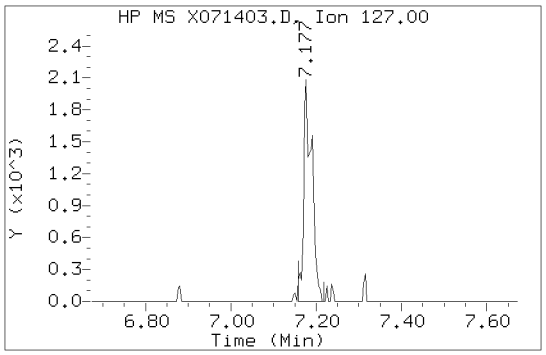
Dibromochloromethane (124-48-1)

Reason Code:

BEFORE
MASS
127
AREA
2854
HEIGHT
2083
20-Jul-2023
15:04
linh
pham



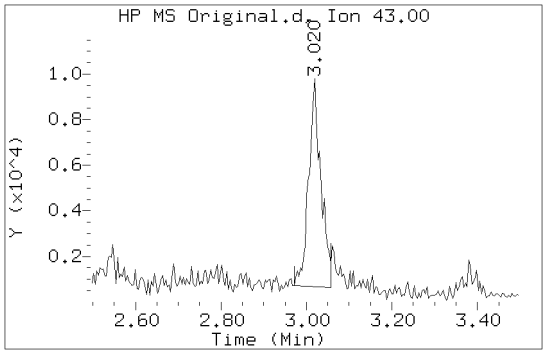
AFTER
MASS
127
AREA
2854
HEIGHT
2083
20-Jul-2023
15:04
linh
pham



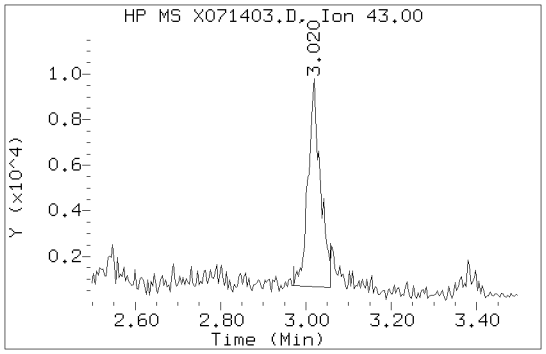
Vinyl Acetate (108-05-4)

Reason Code:

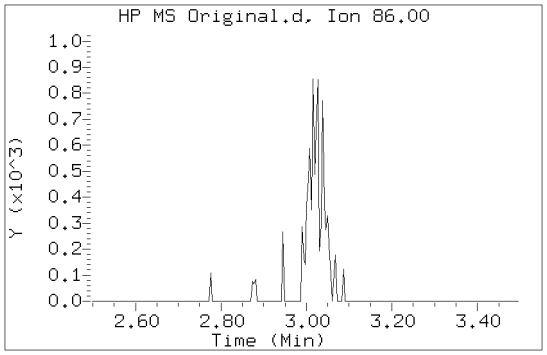
BEFORE
MASS
43
AREA
18224
HEIGHT
9126
20-Jul-2023
15:04
linh
pham



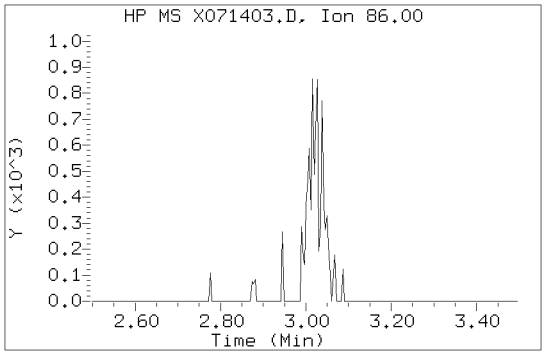
AFTER
MASS
43
AREA
18224
HEIGHT
9126
20-Jul-2023
15:04
linh
pham



BEFORE
MASS
86
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham



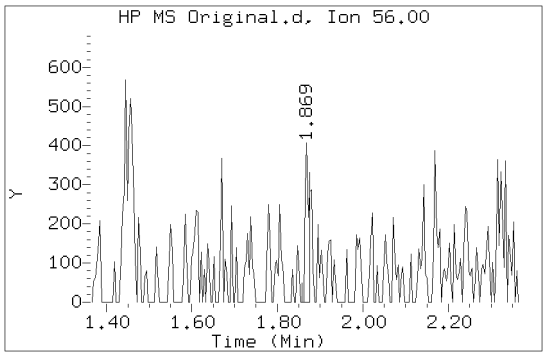
AFTER
MASS
86
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham



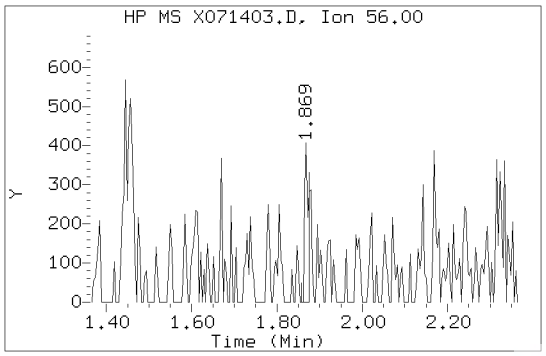
Acrolein (107-02-8)

Reason Code:

BEFORE
MASS
56
AREA
268
HEIGHT
407
20-Jul-2023
15:04
linh
pham



AFTER
MASS
56
AREA
268
HEIGHT
407
20-Jul-2023
15:04
linh
pham



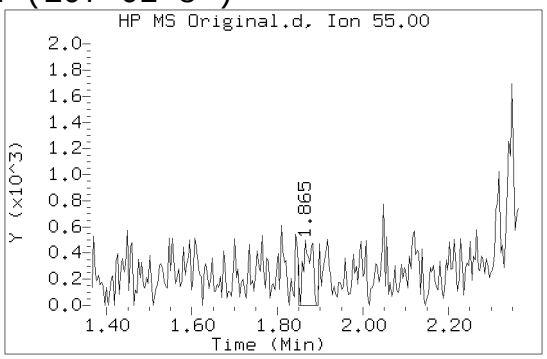
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230714.b\X071403.D
Inj Date : 14-JUL-2023 12:22
InstruID : voa6.i
LabSampID : VSTD000.5

Acrolein (107-02-8)

Reason Code:

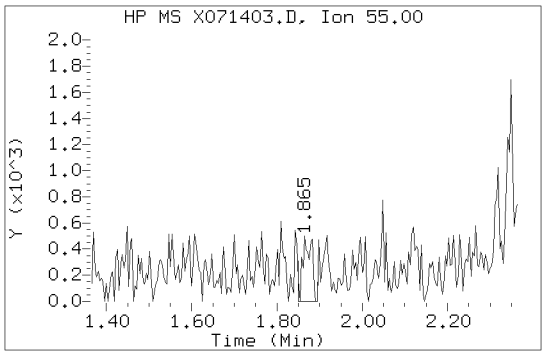
BEFORE

MASS
55
AREA
759
HEIGHT
500
20-Jul-2023
15:04
linh
pham



AFTER

MASS
55
AREA
759
HEIGHT
500
20-Jul-2023
15:04
linh
pham

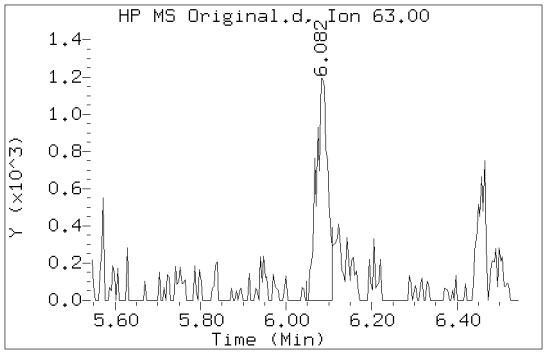


2-Chloroethylvinyl ether (110-75-8)

Reason Code:

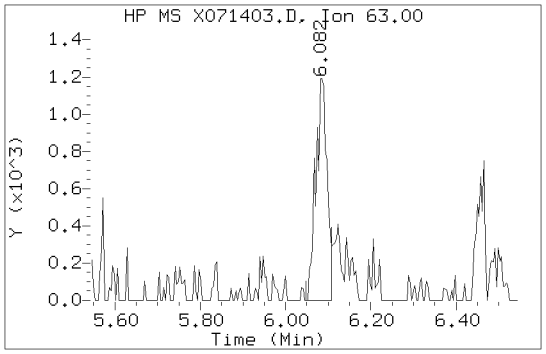
BEFORE

MASS
63
AREA
2206
HEIGHT
1191
20-Jul-2023
15:04
linh
pham



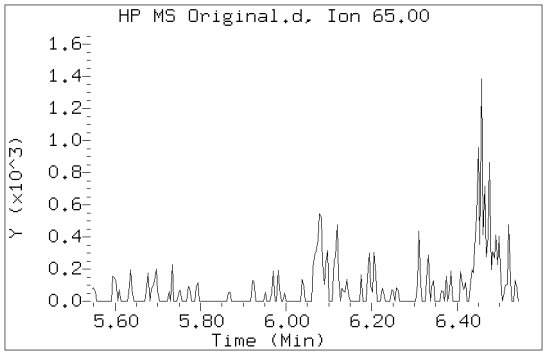
AFTER

MASS
63
AREA
2206
HEIGHT
1191
20-Jul-2023
15:04
linh
pham



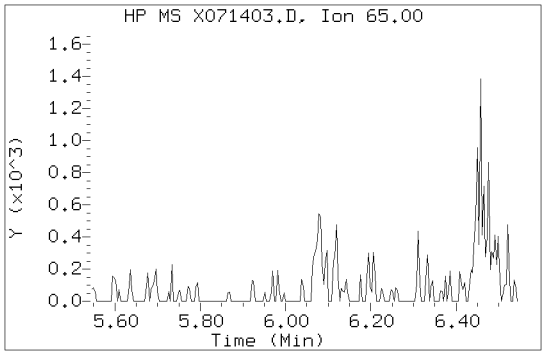
BEFORE

MASS
65
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham



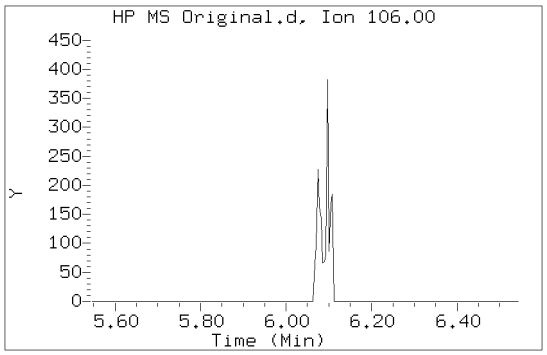
AFTER

MASS
65
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham



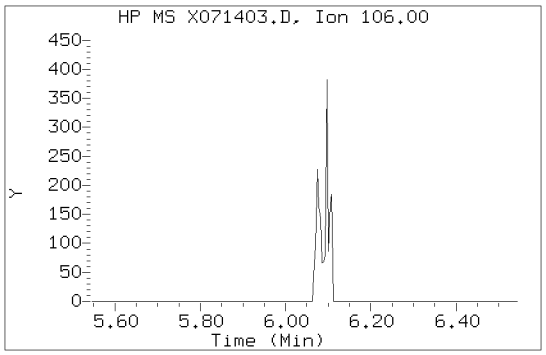
BEFORE

MASS
106
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham



AFTER

MASS
106
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham



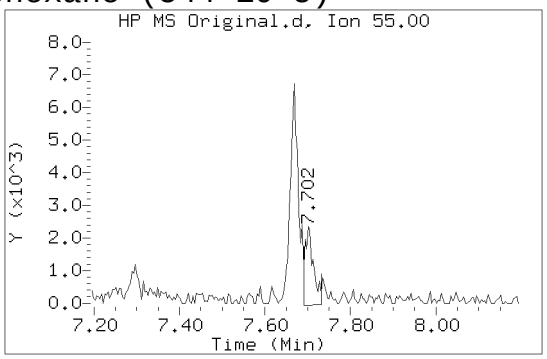
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230714.b\X071403.D
Inj Date : 14-JUL-2023 12:22
InstruID : voa6.i
LabSampID : VSTD000.5

1-Chlorohexane (544-10-5)

Reason Code:

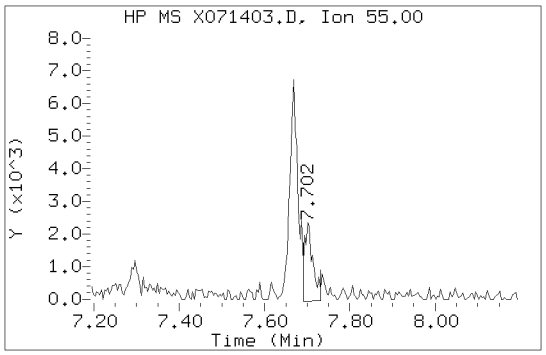
BEFORE

MASS
55
AREA
3459
HEIGHT
2414
20-Jul-2023
15:04
linh
pham



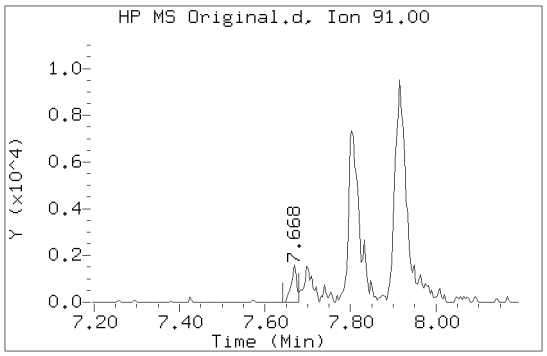
AFTER

MASS
55
AREA
3459
HEIGHT
2414
20-Jul-2023
15:04
linh
pham



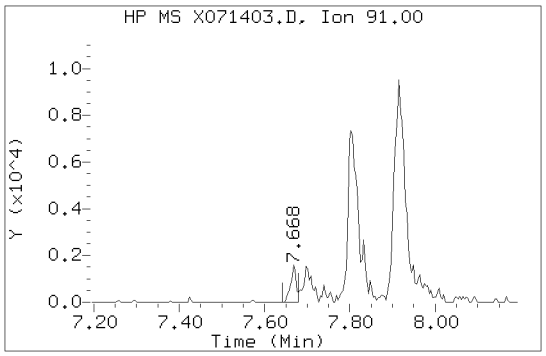
BEFORE

MASS
91
AREA
1435
HEIGHT
1592
20-Jul-2023
15:04
linh
pham



AFTER

MASS
91
AREA
1435
HEIGHT
1592
20-Jul-2023
15:04
linh
pham

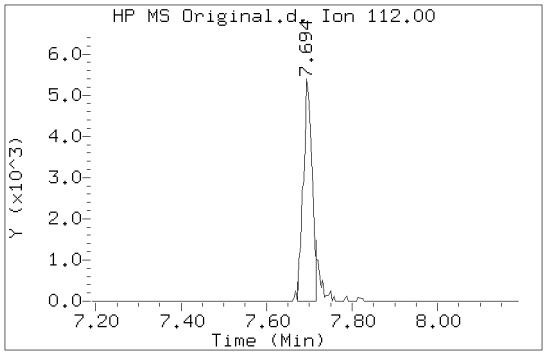


Chlorobenzene (108-90-7)

Reason Code:

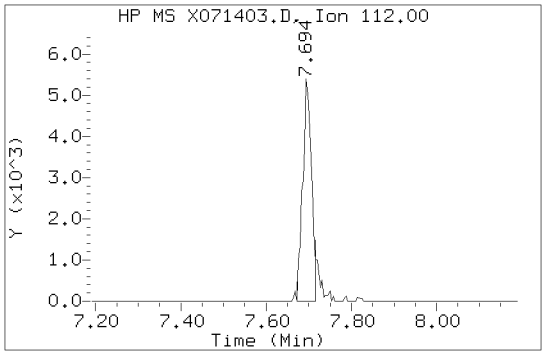
BEFORE

MASS
112
AREA
7907
HEIGHT
5398
20-Jul-2023
15:04
linh
pham



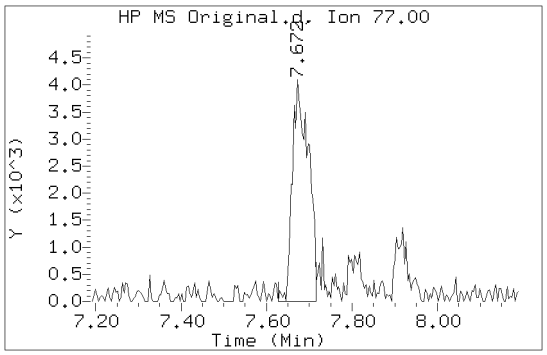
AFTER

MASS
112
AREA
7907
HEIGHT
5398
20-Jul-2023
15:04
linh
pham



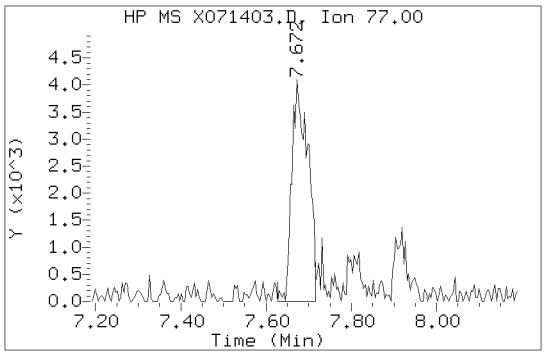
BEFORE

MASS
77
AREA
10872
HEIGHT
4098
20-Jul-2023
15:04
linh
pham



AFTER

MASS
77
AREA
10872
HEIGHT
4098
20-Jul-2023
15:04
linh
pham



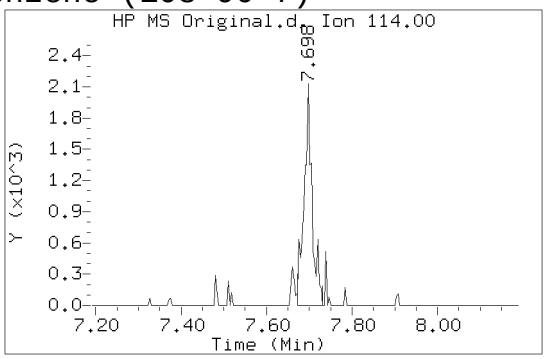
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230714.b\X071403.D
Inj Date : 14-JUL-2023 12:22
InstruID : voa6.i
LabSampID : VSTD000.5

Chlorobenzene (108-90-7)

Reason Code:

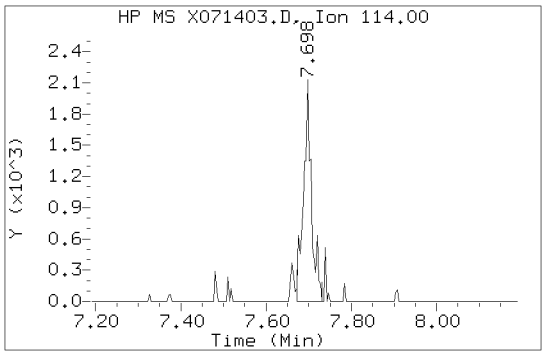
BEFORE

MASS
114
AREA
2819
HEIGHT
2130
20-Jul-2023
15:04
linh
pham



AFTER

MASS
114
AREA
2819
HEIGHT
2130
20-Jul-2023
15:04
linh
pham

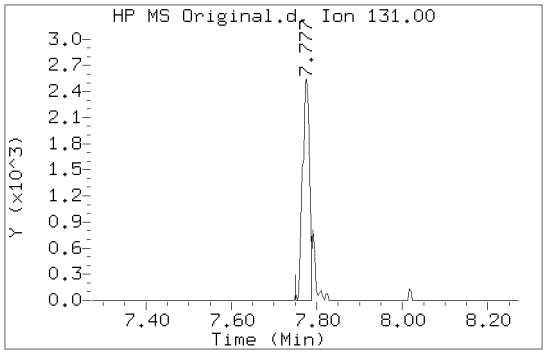


1,1,1,2-Tetrachloroethane (630-20-6)

Reason Code:

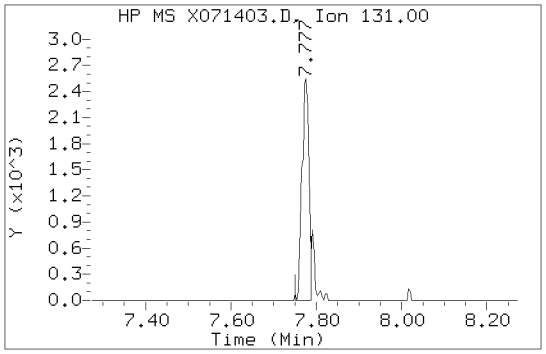
BEFORE

MASS
131
AREA
3008
HEIGHT
2547
20-Jul-2023
15:04
linh
pham



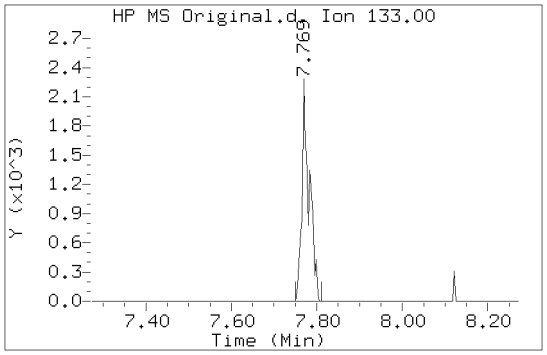
AFTER

MASS
131
AREA
3008
HEIGHT
2547
20-Jul-2023
15:04
linh
pham



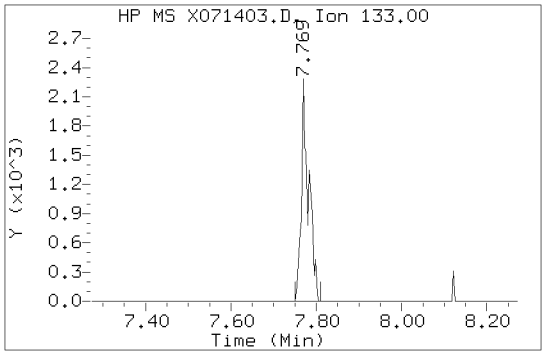
BEFORE

MASS
133
AREA
2774
HEIGHT
2284
20-Jul-2023
15:04
linh
pham



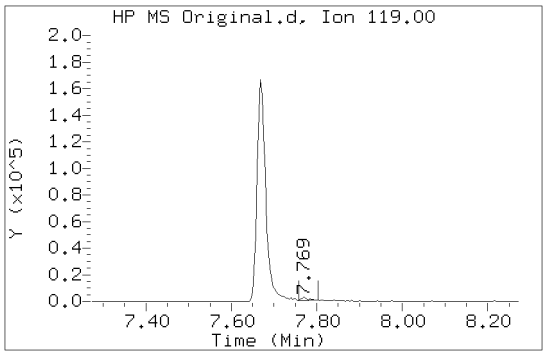
AFTER

MASS
133
AREA
2774
HEIGHT
2284
20-Jul-2023
15:04
linh
pham



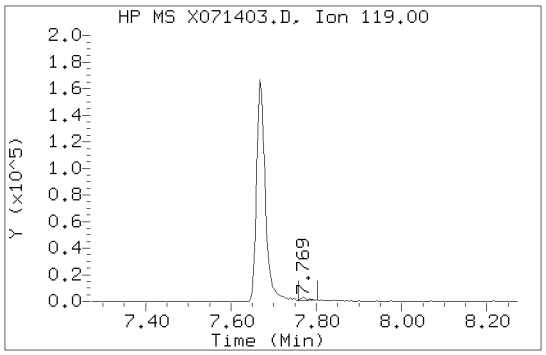
BEFORE

MASS
119
AREA
2799
HEIGHT
2519
20-Jul-2023
15:04
linh
pham



AFTER

MASS
119
AREA
2799
HEIGHT
2519
20-Jul-2023
15:04
linh
pham



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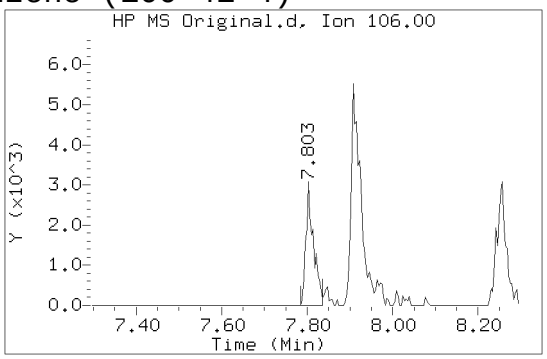
Inj Date : 14-JUL-2023 12:22
InstruID : voa6.i
LabSampID : VSTD000.5

Ethylbenzene (100-41-4)

Reason Code:

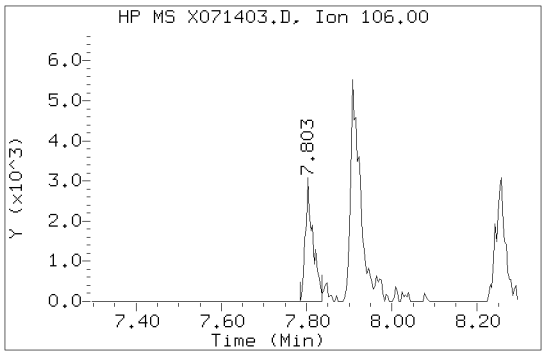
BEFORE

MASS
106
AREA
3909
HEIGHT
3078
20-Jul-2023
15:04
linh
pham



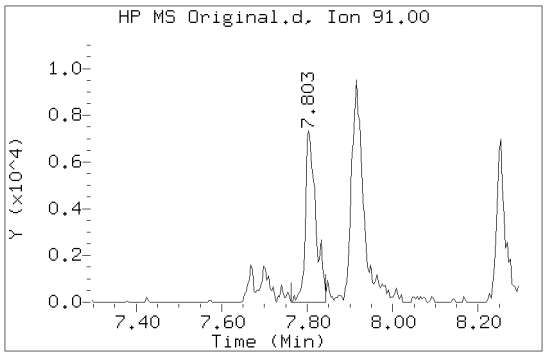
AFTER

MASS
106
AREA
3909
HEIGHT
3078
20-Jul-2023
15:04
linh
pham



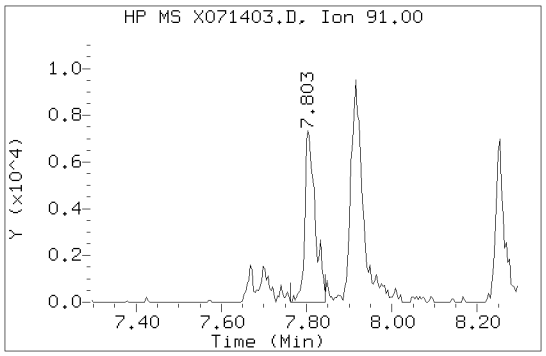
BEFORE

MASS
91
AREA
12659
HEIGHT
7347
20-Jul-2023
15:04
linh
pham



AFTER

MASS
91
AREA
12659
HEIGHT
7347
20-Jul-2023
15:04
linh
pham

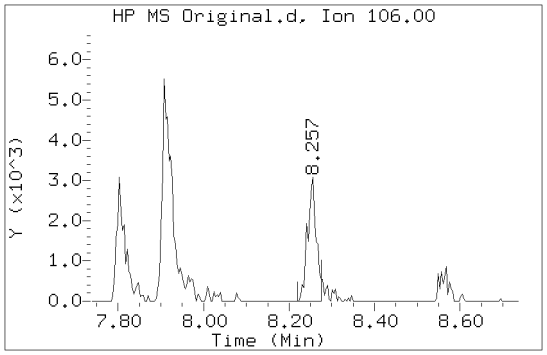


o-Xylene (95-47-6)

Reason Code:

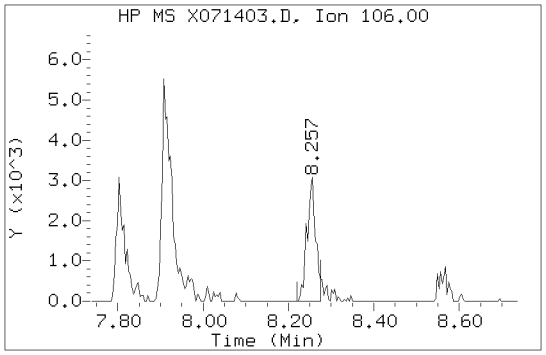
BEFORE

MASS
106
AREA
4414
HEIGHT
3089
20-Jul-2023
15:04
linh
pham



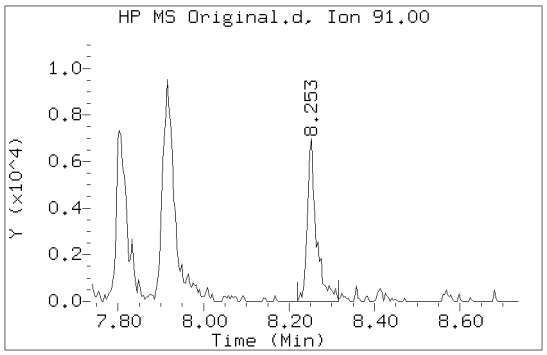
AFTER

MASS
106
AREA
4414
HEIGHT
3089
20-Jul-2023
15:04
linh
pham



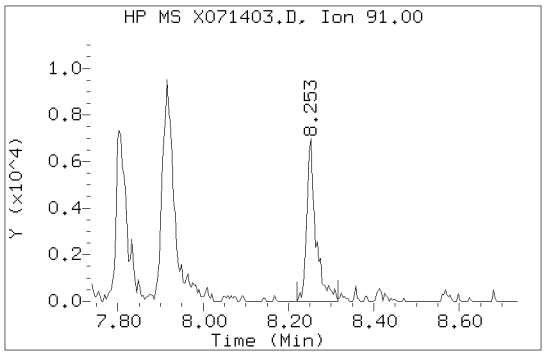
BEFORE

MASS
91
AREA
10415
HEIGHT
7000
20-Jul-2023
15:04
linh
pham



AFTER

MASS
91
AREA
10415
HEIGHT
7000
20-Jul-2023
15:04
linh
pham



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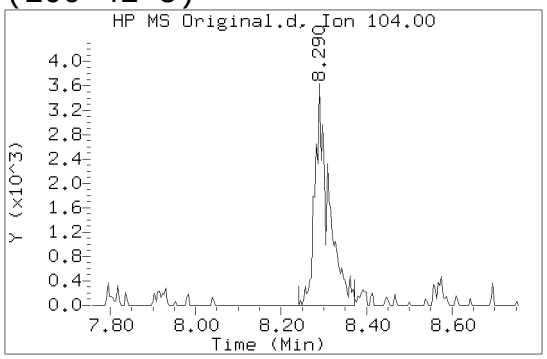
Inj Date : 14-JUL-2023 12:22
InstruID : voa6.i
LabSampID : VSTD000.5

Styrene (100-42-5)

Reason Code:

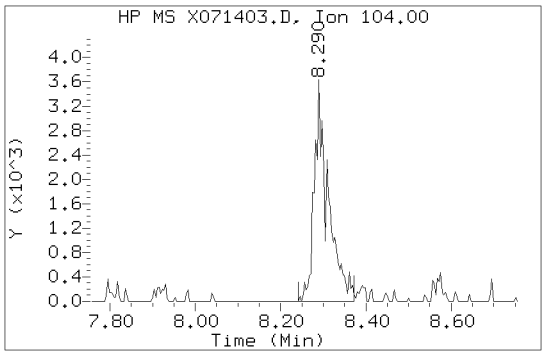
BEFORE

MASS
104
AREA
8133
HEIGHT
3635
20-Jul-2023
15:04
linh
pham



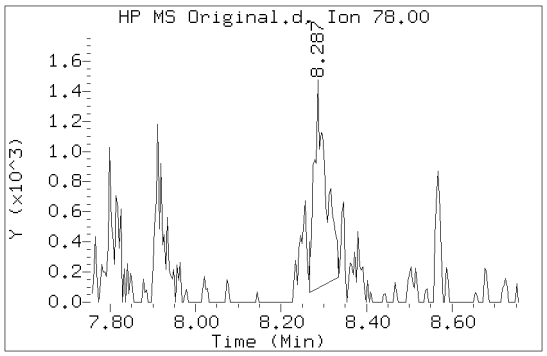
AFTER

MASS
104
AREA
8133
HEIGHT
3635
20-Jul-2023
15:04
linh
pham



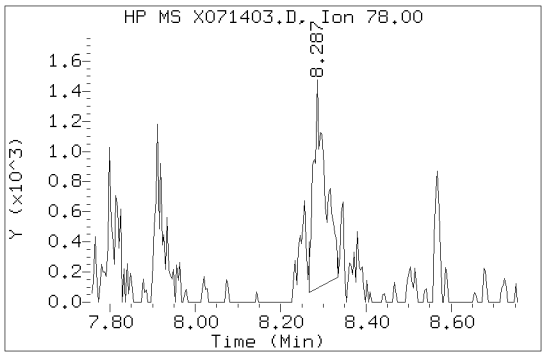
BEFORE

MASS
78
AREA
2633
HEIGHT
1381
20-Jul-2023
15:04
linh
pham



AFTER

MASS
78
AREA
2633
HEIGHT
1381
20-Jul-2023
15:04
linh
pham

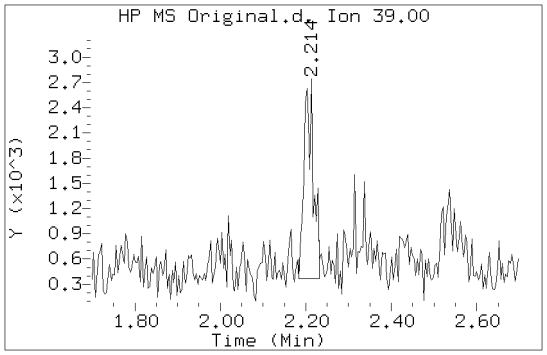


Acetonitrile (75-05-8)

Reason Code:

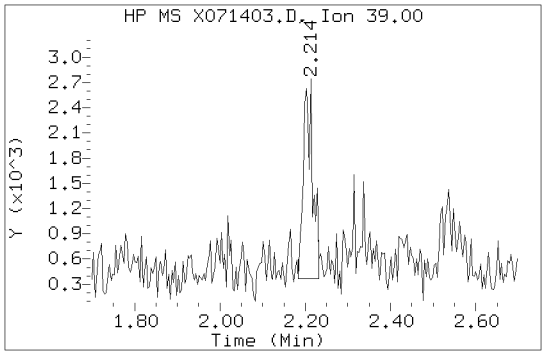
BEFORE

MASS
39
AREA
3606
HEIGHT
2378
20-Jul-2023
15:04
linh
pham



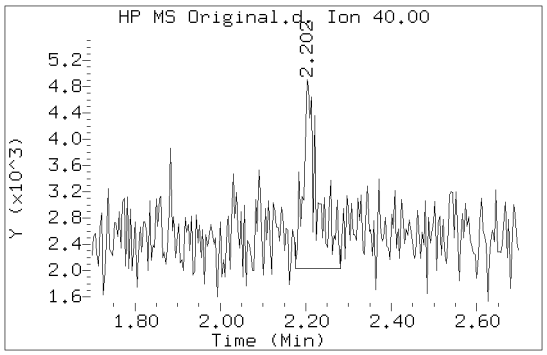
AFTER

MASS
39
AREA
3606
HEIGHT
2378
20-Jul-2023
15:04
linh
pham



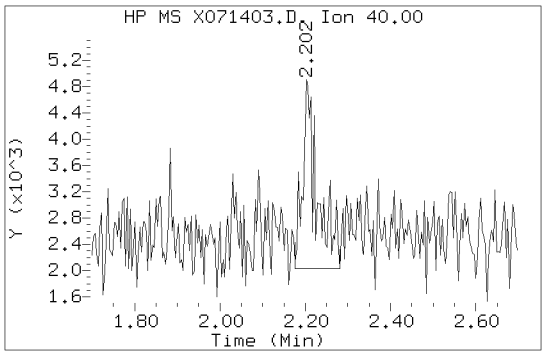
BEFORE

MASS
40
AREA
6842
HEIGHT
2874
20-Jul-2023
15:04
linh
pham



AFTER

MASS
40
AREA
6842
HEIGHT
2874
20-Jul-2023
15:04
linh
pham



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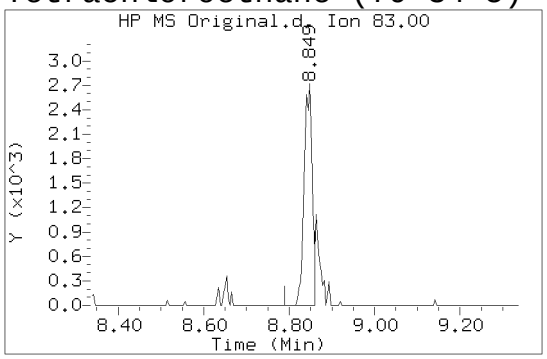
Inj Date : 14-JUL-2023 12:22
InstruID : voa6.i
LabSampID : VSTD000.5

1,1,2,2-Tetrachloroethane (79-34-5)

Reason Code:

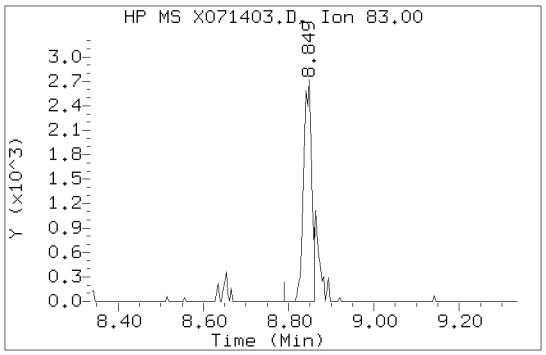
BEFORE

MASS
83
AREA
3654
HEIGHT
2720
20-Jul-2023
15:04
linh
pham



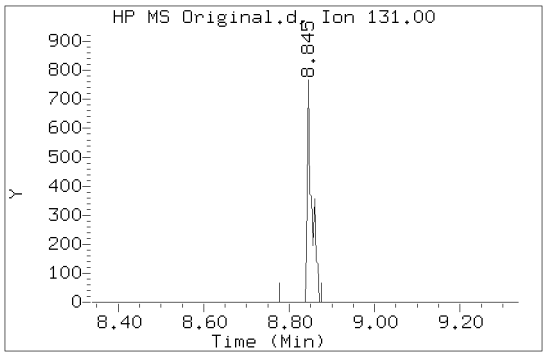
AFTER

MASS
83
AREA
3654
HEIGHT
2720
20-Jul-2023
15:04
linh
pham



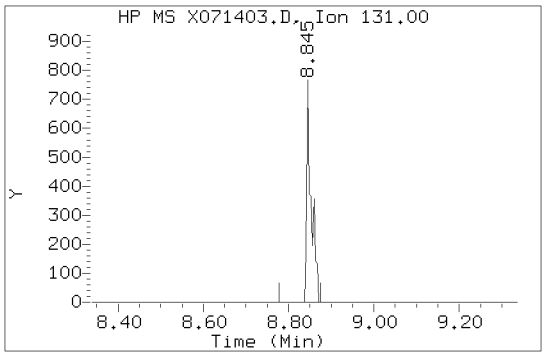
BEFORE

MASS
131
AREA
565
HEIGHT
767
20-Jul-2023
15:04
linh
pham



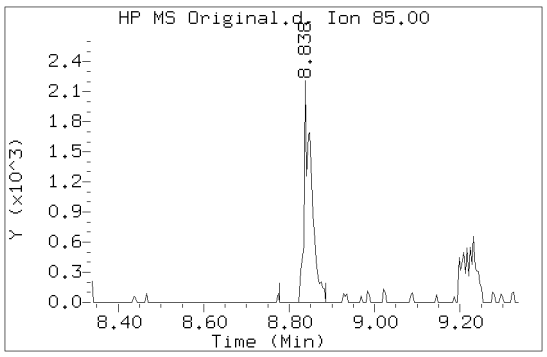
AFTER

MASS
131
AREA
565
HEIGHT
767
20-Jul-2023
15:04
linh
pham



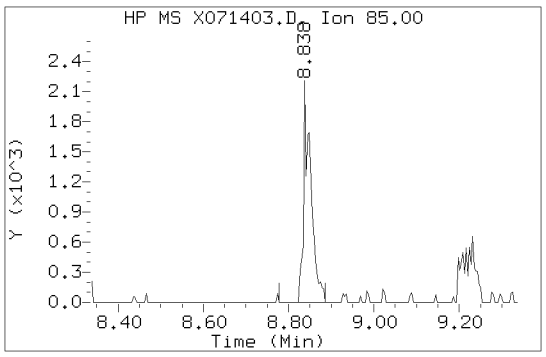
BEFORE

MASS
85
AREA
2735
HEIGHT
2209
20-Jul-2023
15:04
linh
pham



AFTER

MASS
85
AREA
2735
HEIGHT
2209
20-Jul-2023
15:04
linh
pham

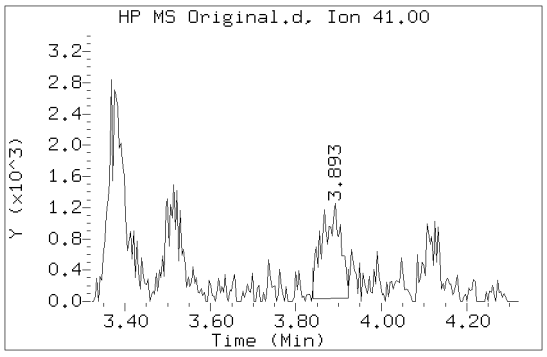


Methacrylonitrile (126-98-7)

Reason Code:

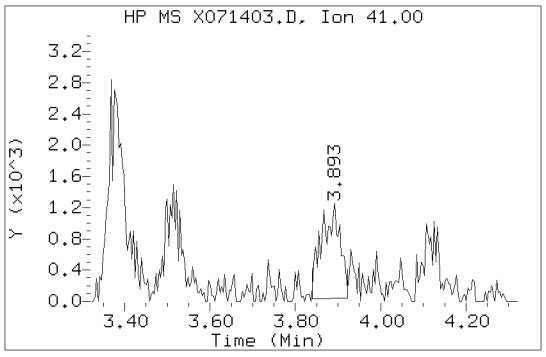
BEFORE

MASS
41
AREA
3622
HEIGHT
1212
20-Jul-2023
15:04
linh
pham



AFTER

MASS
41
AREA
3622
HEIGHT
1212
20-Jul-2023
15:04
linh
pham



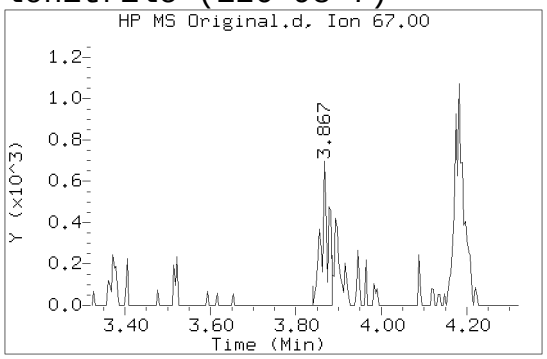
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230714.b\X071403.D
Inj Date : 14-JUL-2023 12:22
InstruID : voa6.i
LabSampID : VSTD000.5

Methacrylonitrile (126-98-7)

Reason Code:

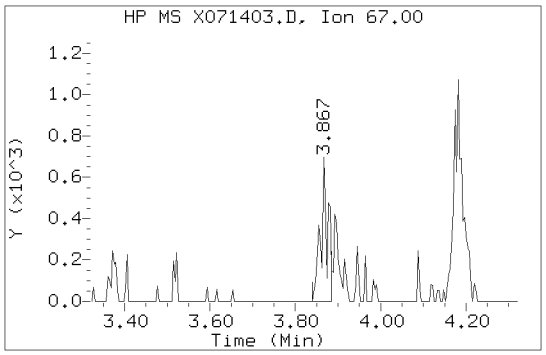
BEFORE

MASS
67
AREA
806
HEIGHT
697
20-Jul-2023
15:04
linh
pham



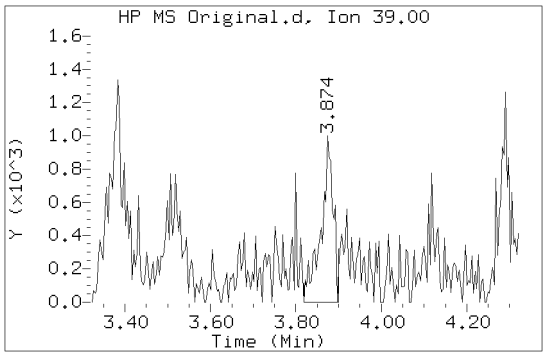
AFTER

MASS
67
AREA
806
HEIGHT
697
20-Jul-2023
15:04
linh
pham



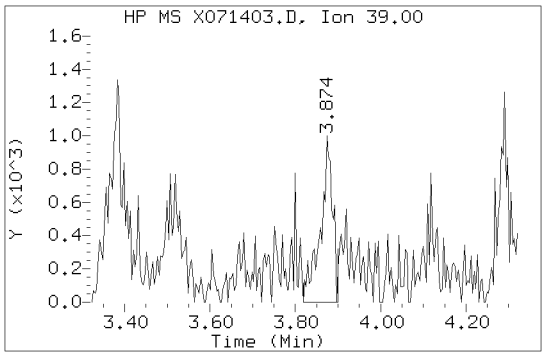
BEFORE

MASS
39
AREA
1986
HEIGHT
1000
20-Jul-2023
15:04
linh
pham



AFTER

MASS
39
AREA
1986
HEIGHT
1000
20-Jul-2023
15:04
linh
pham

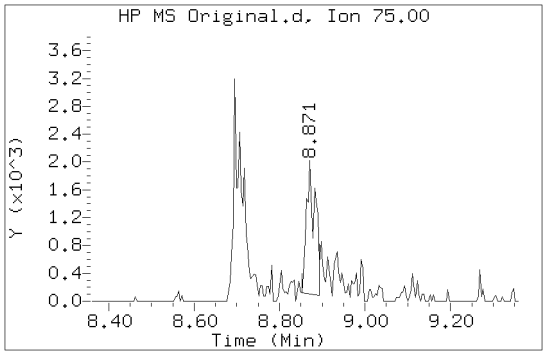


1,2,3-Trichloropropane (96-18-4)

Reason Code:

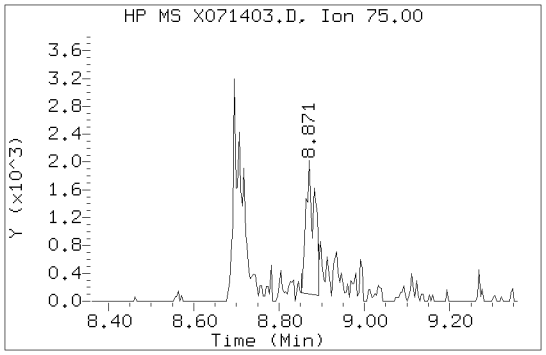
BEFORE

MASS
75
AREA
2737
HEIGHT
1922
20-Jul-2023
15:04
linh
pham



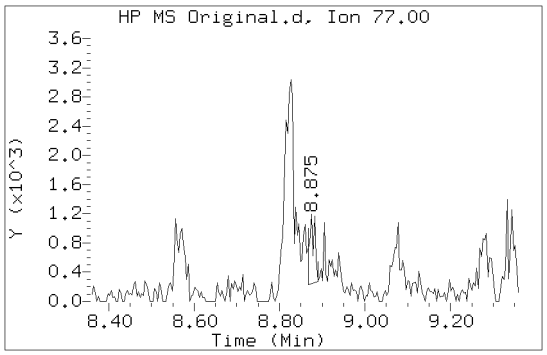
AFTER

MASS
75
AREA
2737
HEIGHT
1922
20-Jul-2023
15:04
linh
pham



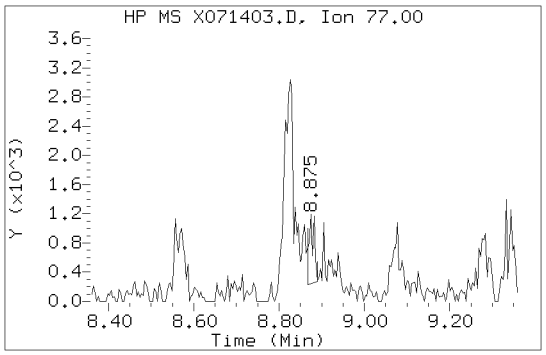
BEFORE

MASS
77
AREA
813
HEIGHT
948
20-Jul-2023
15:04
linh
pham



AFTER

MASS
77
AREA
813
HEIGHT
948
20-Jul-2023
15:04
linh
pham

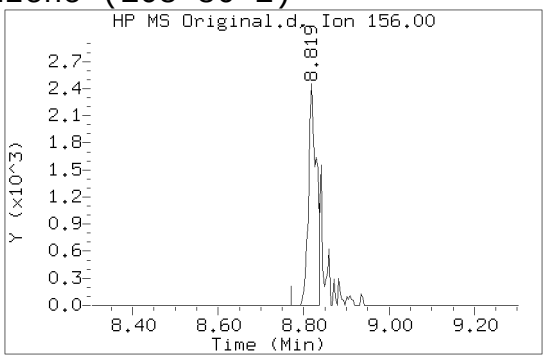


Data File : \\NAHSTWS005\Target\chem\voa6.i\X230714.b\X071403.D
Inj Date : 14-JUL-2023 12:22
InstruID : voa6.i
LabSampID : VSTD000.5

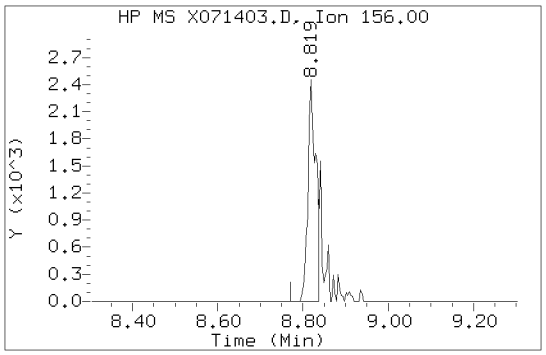
Bromobenzene (108-86-1)

Reason Code:

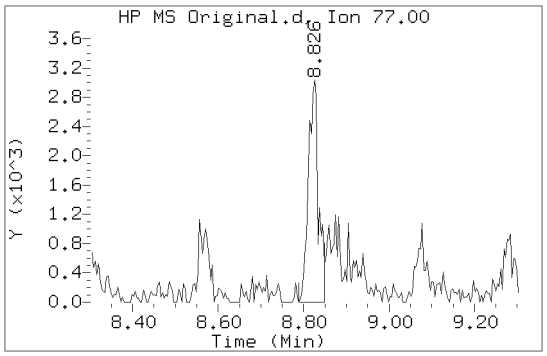
BEFORE
MASS
156
AREA
3201
HEIGHT
2455
20-Jul-2023
15:04
linh
pham



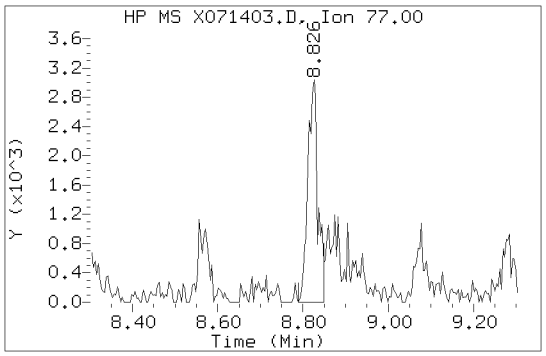
AFTER
MASS
156
AREA
3201
HEIGHT
2455
20-Jul-2023
15:04
linh
pham



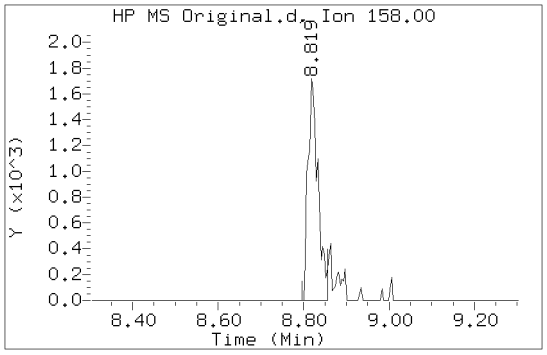
BEFORE
MASS
77
AREA
5003
HEIGHT
3037
20-Jul-2023
15:04
linh
pham



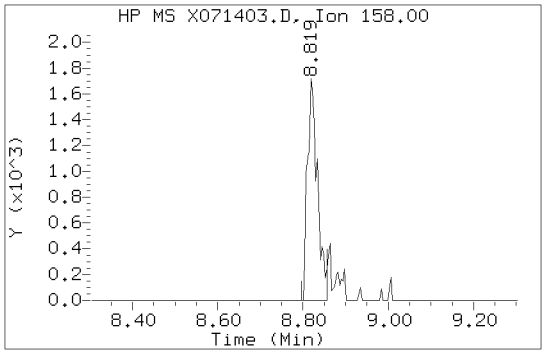
AFTER
MASS
77
AREA
5003
HEIGHT
3037
20-Jul-2023
15:04
linh
pham



BEFORE
MASS
158
AREA
2823
HEIGHT
1718
20-Jul-2023
15:04
linh
pham



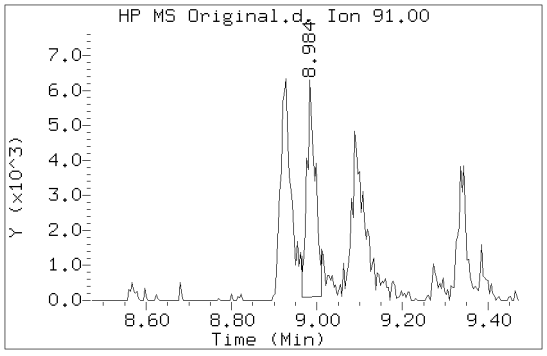
AFTER
MASS
158
AREA
2823
HEIGHT
1718
20-Jul-2023
15:04
linh
pham



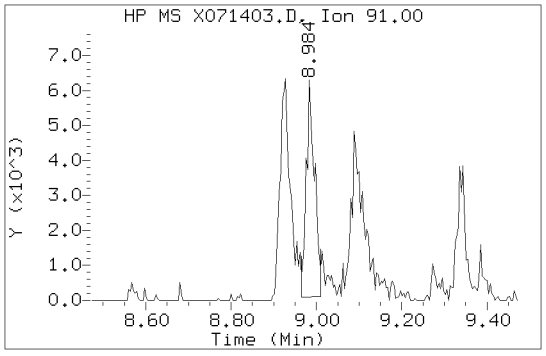
2-Chlorotoluene (95-49-8)

Reason Code:

BEFORE
MASS
91
AREA
8487
HEIGHT
6195
20-Jul-2023
15:04
linh
pham



AFTER
MASS
91
AREA
8487
HEIGHT
6195
20-Jul-2023
15:04
linh
pham



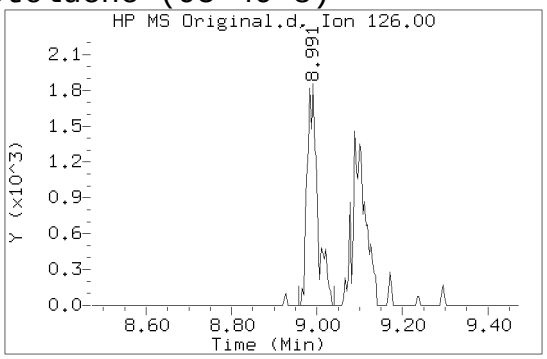
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230714.b\X071403.D
Inj Date : 14-JUL-2023 12:22
InstruID : voa6.i
LabSampID : VSTD000.5

2-Chlorotoluene (95-49-8)

Reason Code:

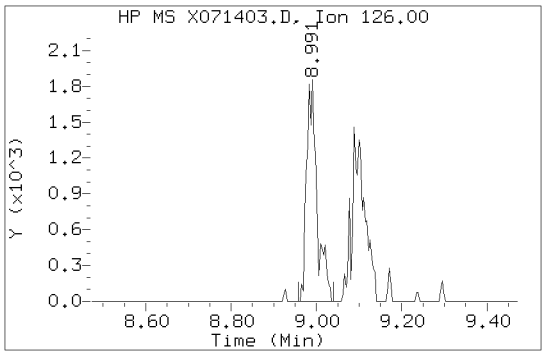
BEFORE

MASS
126
AREA
3192
HEIGHT
1856
20-Jul-2023
15:04
linh
pham



AFTER

MASS
126
AREA
3192
HEIGHT
1856
20-Jul-2023
15:04
linh
pham

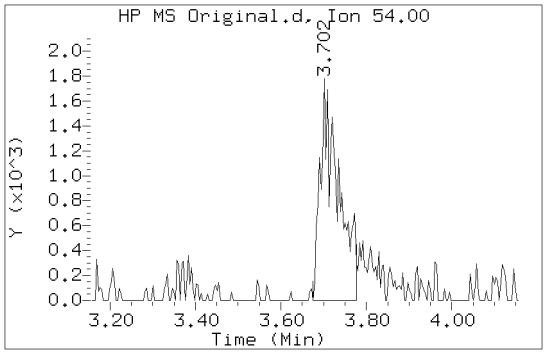


Propionitrile (107-12-0)

Reason Code:

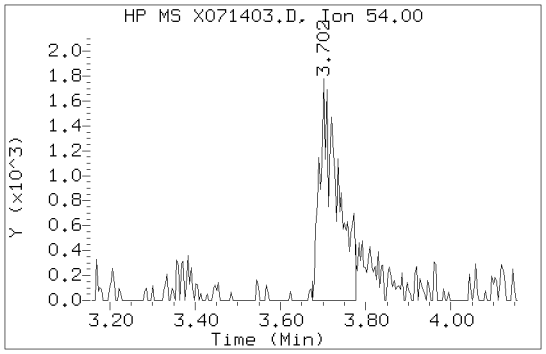
BEFORE

MASS
54
AREA
5231
HEIGHT
1779
20-Jul-2023
15:04
linh
pham



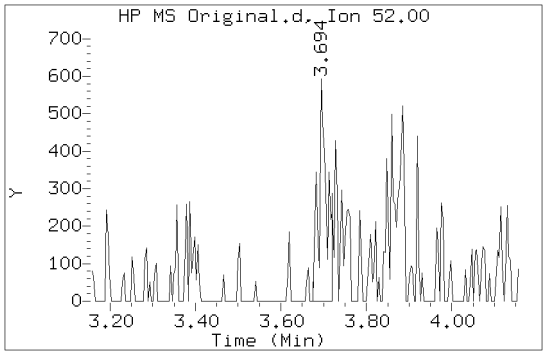
AFTER

MASS
54
AREA
5231
HEIGHT
1779
20-Jul-2023
15:04
linh
pham



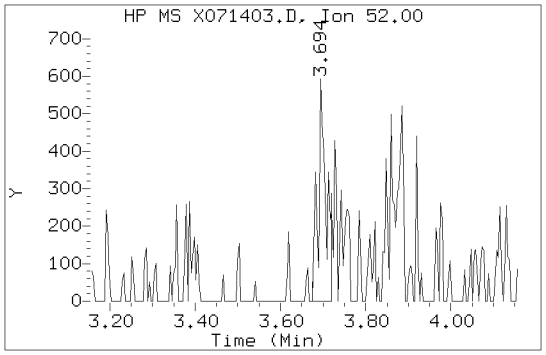
BEFORE

MASS
52
AREA
779
HEIGHT
593
20-Jul-2023
15:04
linh
pham



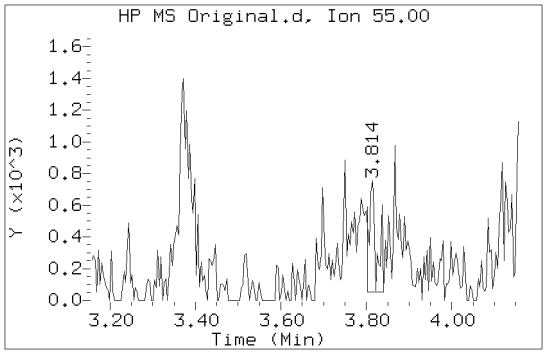
AFTER

MASS
52
AREA
779
HEIGHT
593
20-Jul-2023
15:04
linh
pham



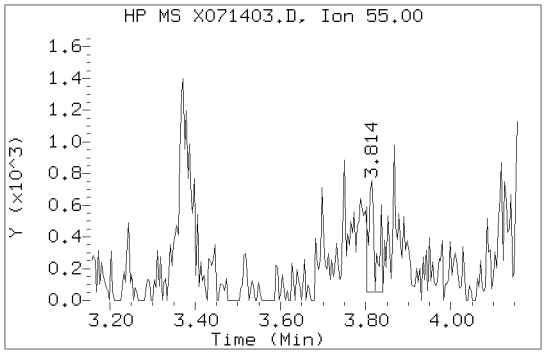
BEFORE

MASS
55
AREA
826
HEIGHT
704
20-Jul-2023
15:04
linh
pham



AFTER

MASS
55
AREA
826
HEIGHT
704
20-Jul-2023
15:04
linh
pham



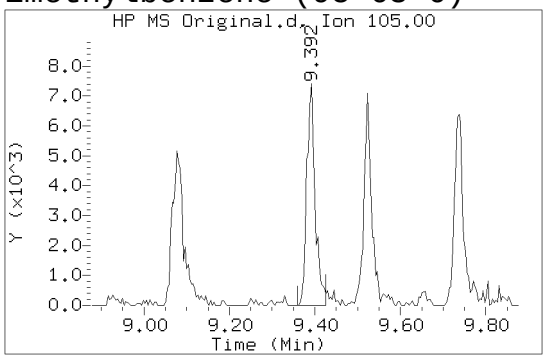
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230714.b\X071403.D
Inj Date : 14-JUL-2023 12:22
InstruID : voa6.i
LabSampID : VSTD000.5

1,2,4-Trimethylbenzene (95-63-6)

Reason Code:

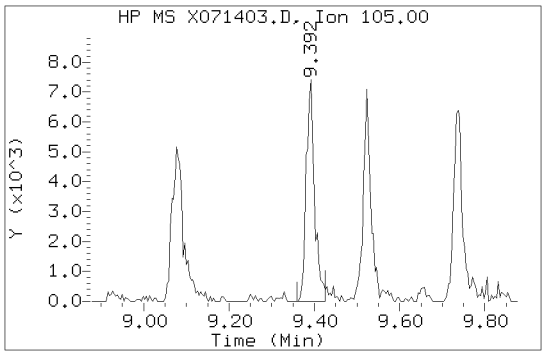
BEFORE

MASS
105
AREA
10172
HEIGHT
7414
20-Jul-2023
15:04
linh
pham



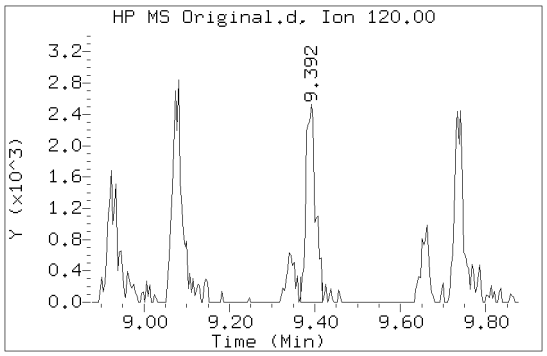
AFTER

MASS
105
AREA
10172
HEIGHT
7414
20-Jul-2023
15:04
linh
pham



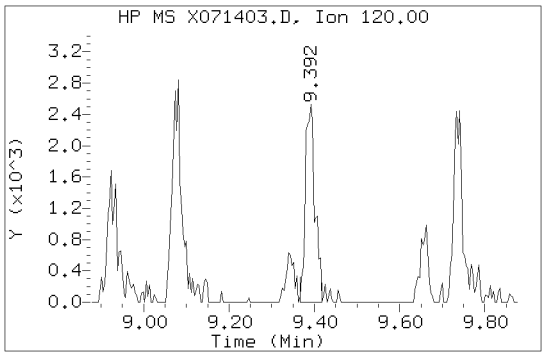
BEFORE

MASS
120
AREA
3980
HEIGHT
2527
20-Jul-2023
15:04
linh
pham



AFTER

MASS
120
AREA
3980
HEIGHT
2527
20-Jul-2023
15:04
linh
pham

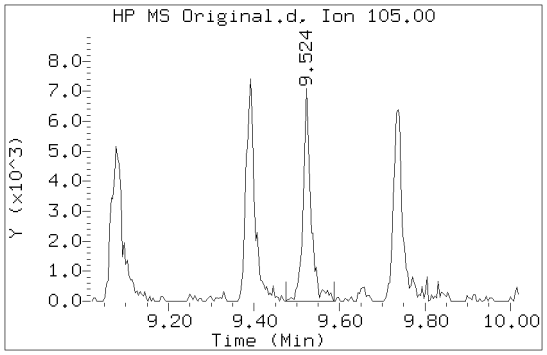


sec-Butylbenzene (135-98-8)

Reason Code:

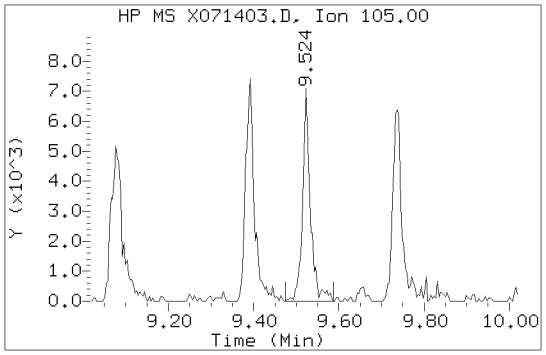
BEFORE

MASS
105
AREA
9247
HEIGHT
7103
20-Jul-2023
15:04
linh
pham



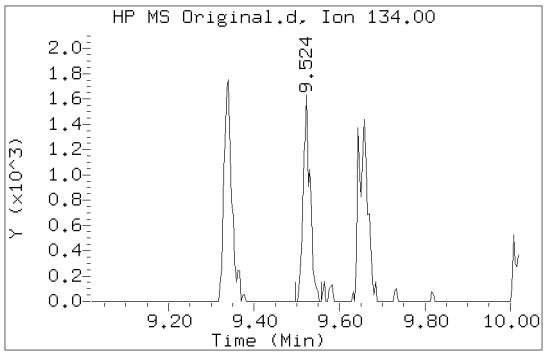
AFTER

MASS
105
AREA
9247
HEIGHT
7103
20-Jul-2023
15:04
linh
pham



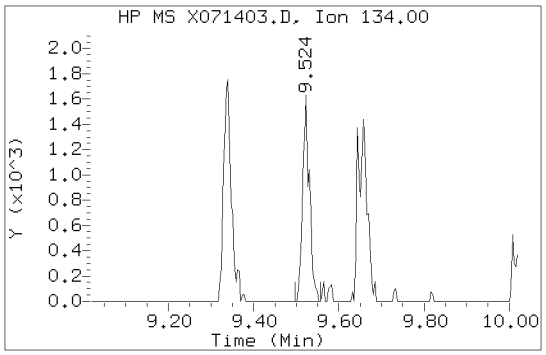
BEFORE

MASS
134
AREA
1861
HEIGHT
1631
20-Jul-2023
15:04
linh
pham



AFTER

MASS
134
AREA
1861
HEIGHT
1631
20-Jul-2023
15:04
linh
pham

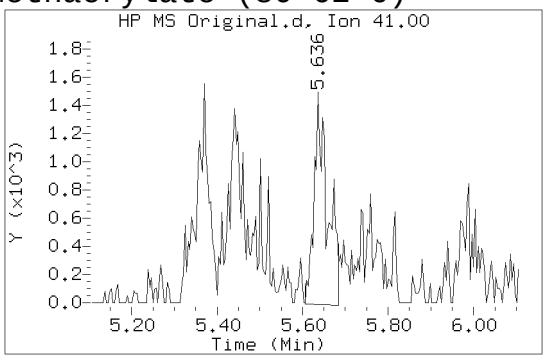


Data File : \\NAHSTWS005\Target\chem\voa6.i\X230714.b\X071403.D
Inj Date : 14-JUL-2023 12:22
InstruID : voa6.i
LabSampID : VSTD000.5

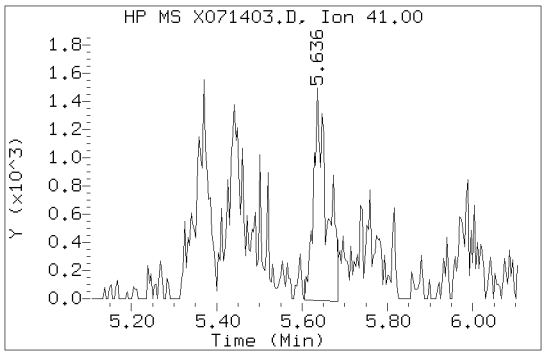
Methyl Methacrylate (80-62-6)

Reason Code:

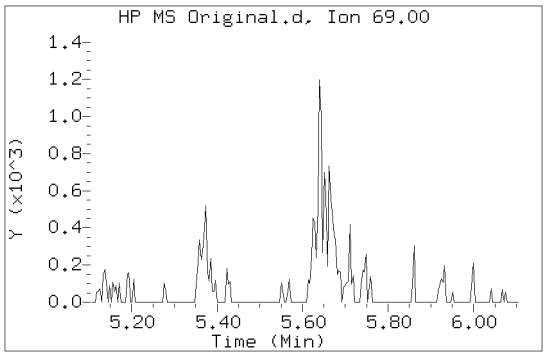
BEFORE
MASS
41
AREA
3261
HEIGHT
1505
20-Jul-2023
15:04
linh
pham



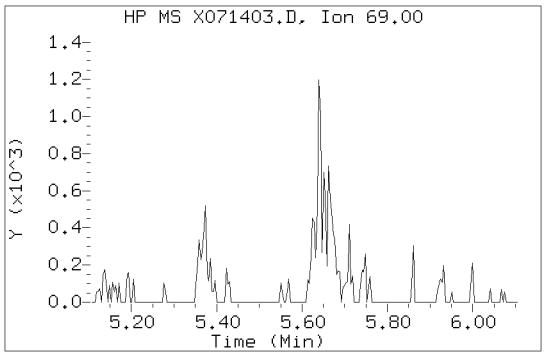
AFTER
MASS
41
AREA
3261
HEIGHT
1505
20-Jul-2023
15:04
linh
pham



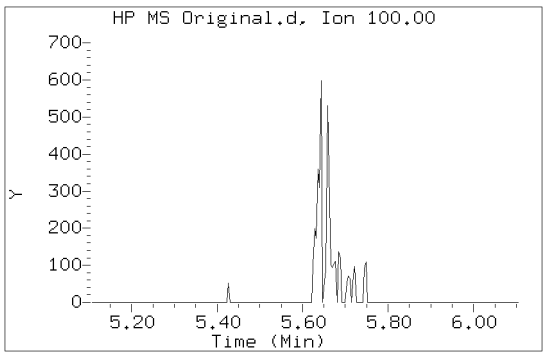
BEFORE
MASS
69
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham



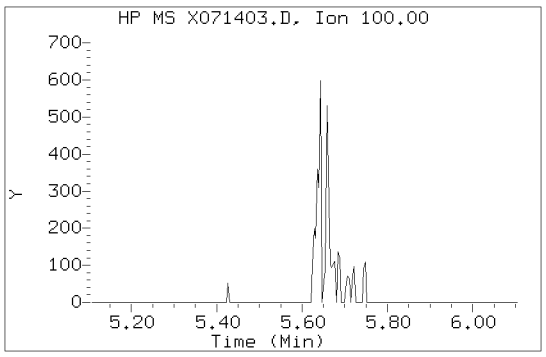
AFTER
MASS
69
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham



BEFORE
MASS
100
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham



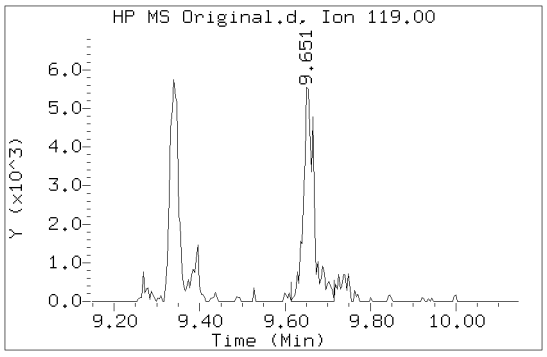
AFTER
MASS
100
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham



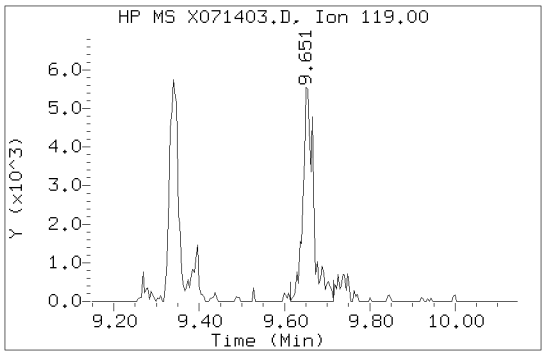
p-Isopropyltoluene (99-87-6)

Reason Code:

BEFORE
MASS
119
AREA
9771
HEIGHT
5556
20-Jul-2023
15:04
linh
pham



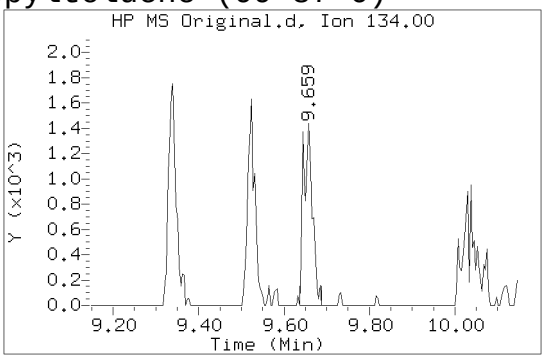
AFTER
MASS
119
AREA
9771
HEIGHT
5556
20-Jul-2023
15:04
linh
pham



Data File : \\NAHSTWS005\Target\chem\voa6.i\X230714.b\X071403.D
Inj Date : 14-JUL-2023 12:22
InstruID : voa6.i
LabSampID : VSTD000.5

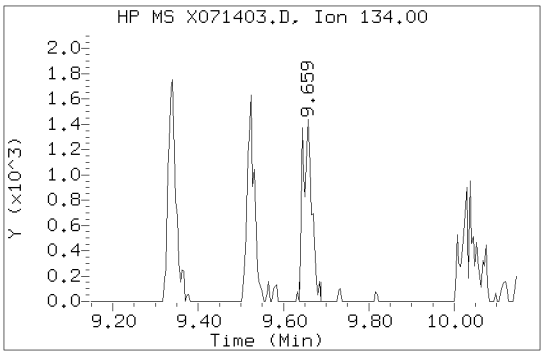
p-Isopropyltoluene (99-87-6)

BEFORE
MASS
134
AREA
2131
HEIGHT
1438
20-Jul-2023
15:04
linh
pham

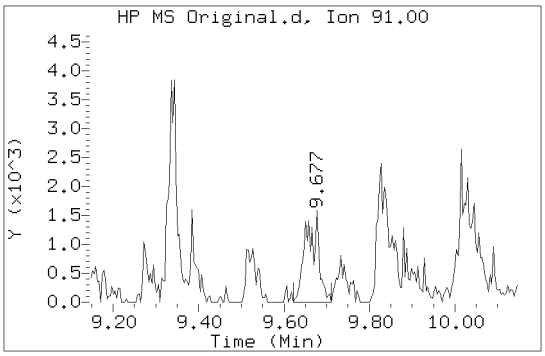


Reason Code:

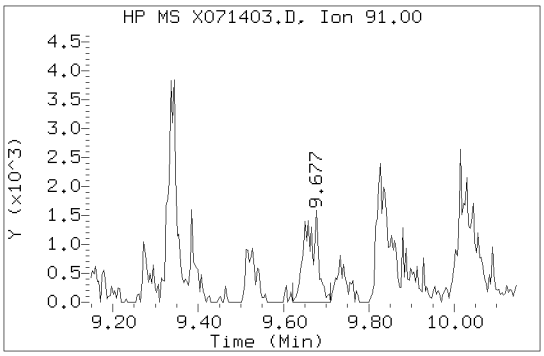
AFTER
MASS
134
AREA
2131
HEIGHT
1438
20-Jul-2023
15:04
linh
pham



BEFORE
MASS
91
AREA
3352
HEIGHT
1591
20-Jul-2023
15:04
linh
pham

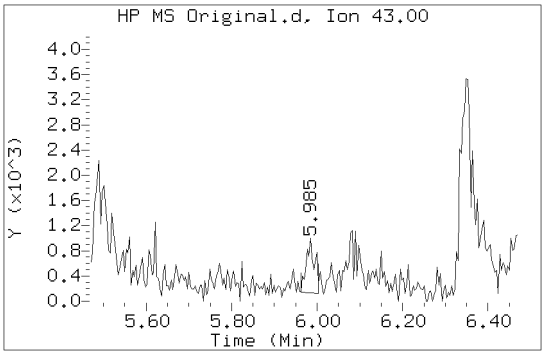


AFTER
MASS
91
AREA
3352
HEIGHT
1591
20-Jul-2023
15:04
linh
pham



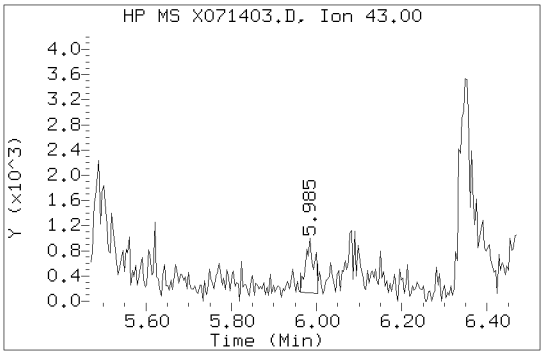
2-Nitropropane (79-46-9)

BEFORE
MASS
43
AREA
1174
HEIGHT
872
20-Jul-2023
15:04
linh
pham

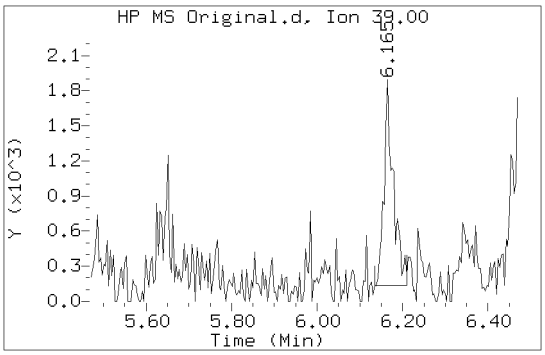


Reason Code:

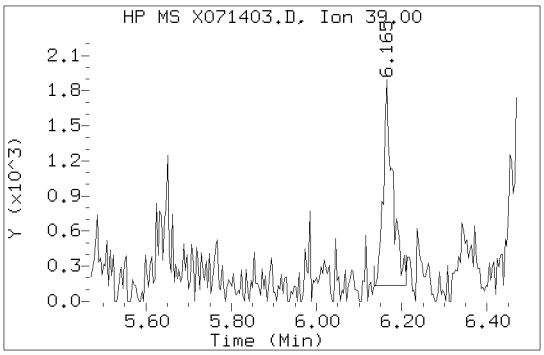
AFTER
MASS
43
AREA
1174
HEIGHT
872
20-Jul-2023
15:04
linh
pham



BEFORE
MASS
39
AREA
2649
HEIGHT
1759
20-Jul-2023
15:04
linh
pham



AFTER
MASS
39
AREA
2649
HEIGHT
1759
20-Jul-2023
15:04
linh
pham



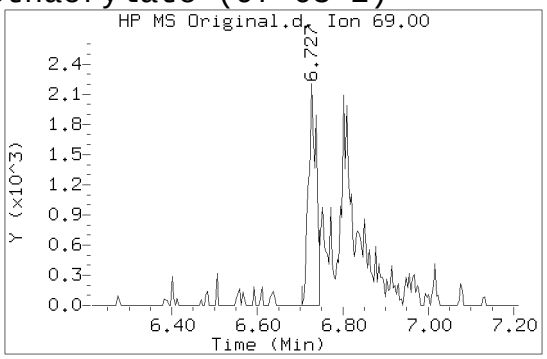
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230714.b\X071403.D
Inj Date : 14-JUL-2023 12:22
InstruID : voa6.i
LabSampID : VSTD000.5

Ethyl Methacrylate (97-63-2)

Reason Code:

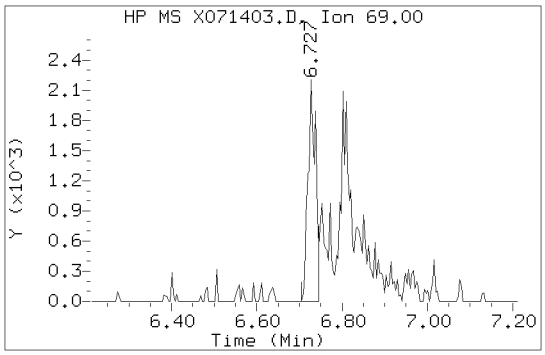
BEFORE

MASS
69
AREA
2780
HEIGHT
2206
20-Jul-2023
15:04
linh
pham



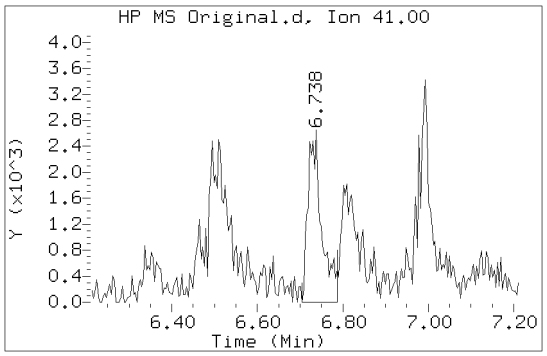
AFTER

MASS
69
AREA
2780
HEIGHT
2206
20-Jul-2023
15:04
linh
pham



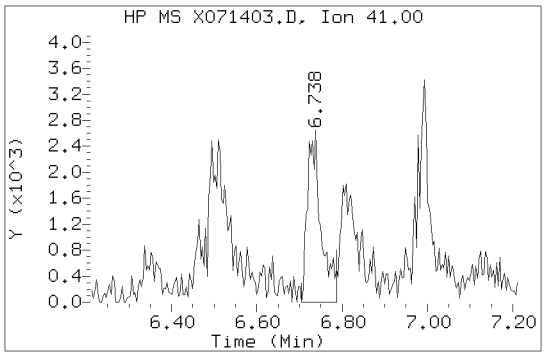
BEFORE

MASS
41
AREA
5900
HEIGHT
2651
20-Jul-2023
15:04
linh
pham



AFTER

MASS
41
AREA
5900
HEIGHT
2651
20-Jul-2023
15:04
linh
pham

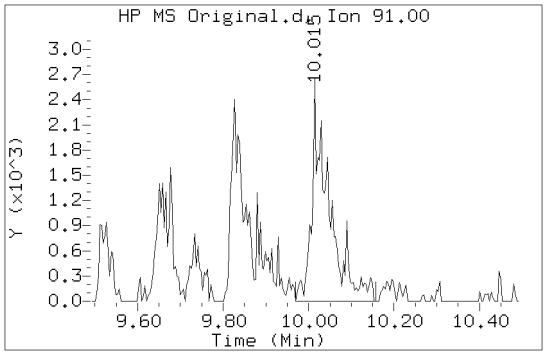


n-Butylbenzene (104-51-8)

Reason Code:

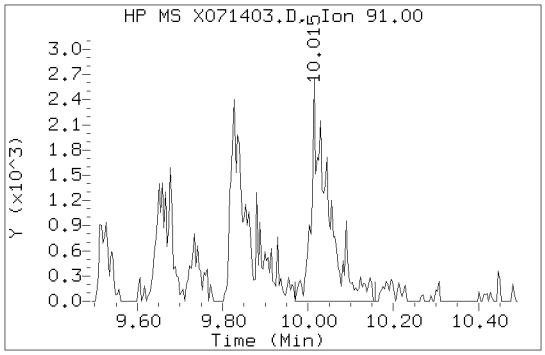
BEFORE

MASS
91
AREA
7141
HEIGHT
2647
20-Jul-2023
15:04
linh
pham



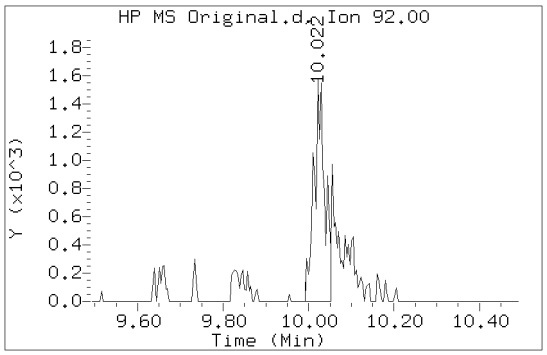
AFTER

MASS
91
AREA
7141
HEIGHT
2647
20-Jul-2023
15:04
linh
pham



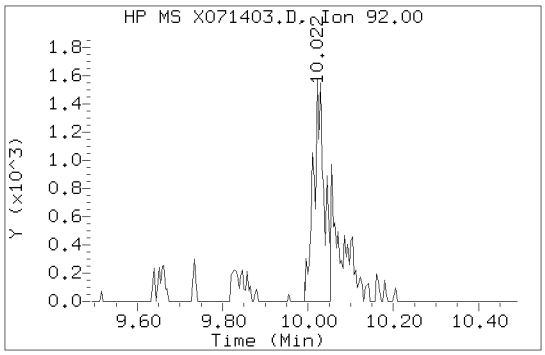
BEFORE

MASS
92
AREA
2733
HEIGHT
1571
20-Jul-2023
15:04
linh
pham



AFTER

MASS
92
AREA
2733
HEIGHT
1571
20-Jul-2023
15:04
linh
pham



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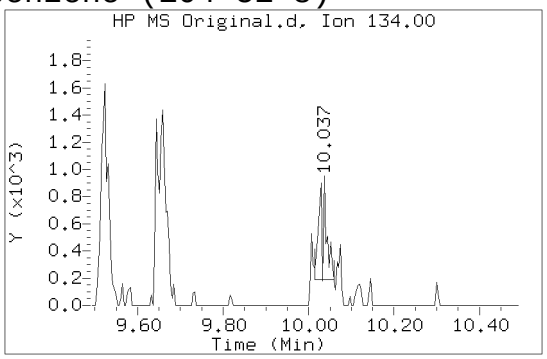
Inj Date : 14-JUL-2023 12:22
InstruID : voa6.i
LabSampID : VSTD000.5

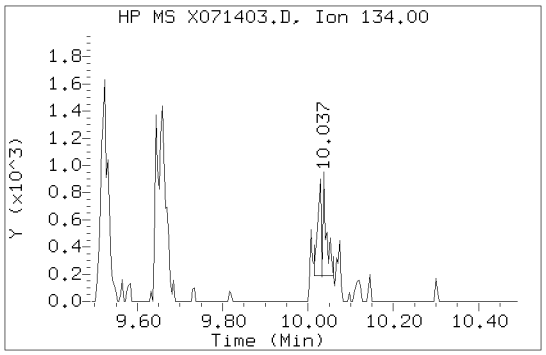
n-Butylbenzene (104-51-8)

Reason Code:

BEFORE
MASS
134
AREA
825
HEIGHT
766
20-Jul-2023
15:04
linh
pham



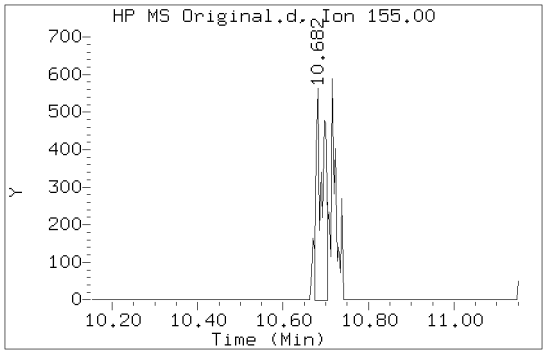
AFTER
MASS
134
AREA
825
HEIGHT
766
20-Jul-2023
15:04
linh
pham



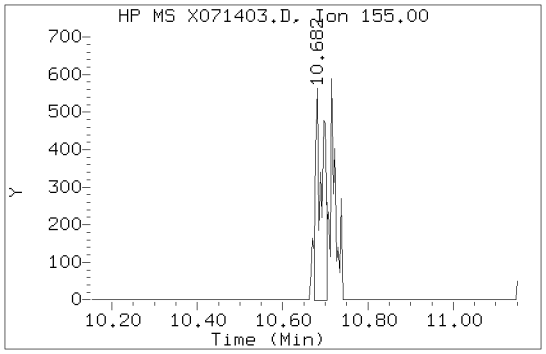
1,2-Dibromo-3-Chloropropane (96-12-8)

Reason Code:

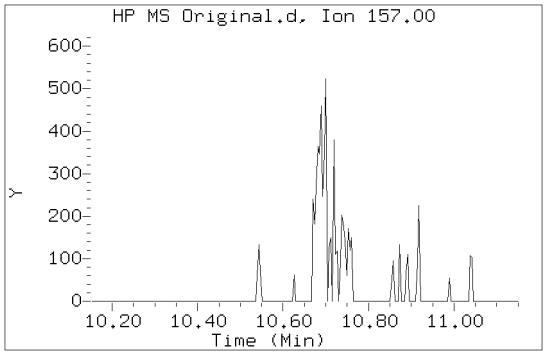
BEFORE
MASS
155
AREA
675
HEIGHT
564
20-Jul-2023
15:04
linh
pham



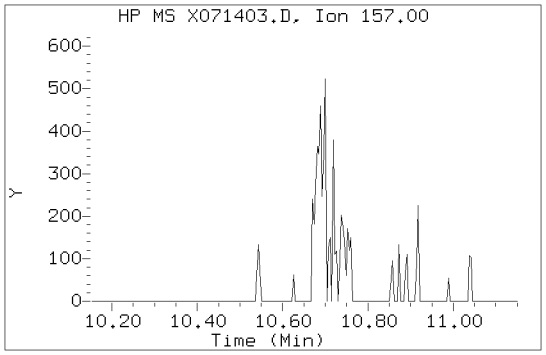
AFTER
MASS
155
AREA
675
HEIGHT
564
20-Jul-2023
15:04
linh
pham



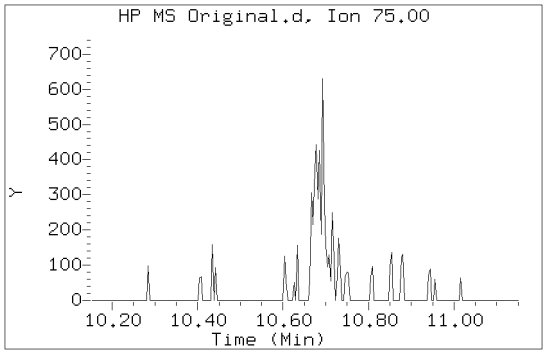
BEFORE
MASS
157
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham



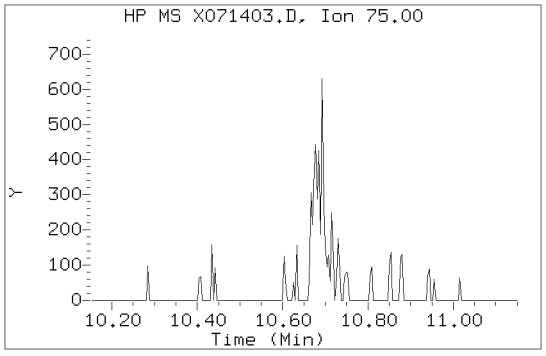
AFTER
MASS
157
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham



BEFORE
MASS
75
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham



AFTER
MASS
75
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham



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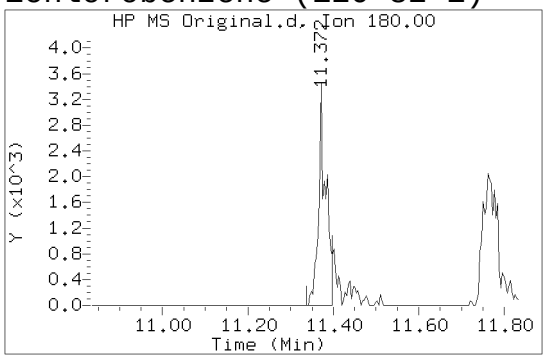
Inj Date : 14-JUL-2023 12:22
InstruID : voa6.i
LabSampID : VSTD000.5

1,2,4-Trichlorobenzene (120-82-1)

Reason Code:

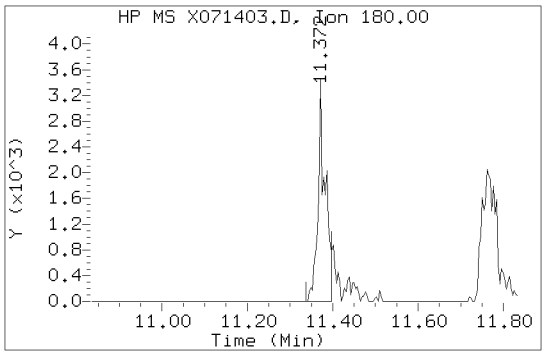
BEFORE

MASS
180
AREA
4099
HEIGHT
3445
20-Jul-2023
15:04
linh
pham



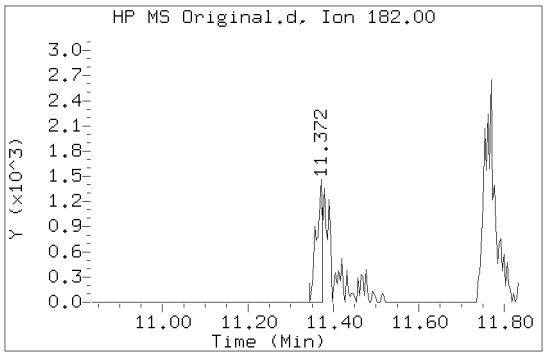
AFTER

MASS
180
AREA
4099
HEIGHT
3445
20-Jul-2023
15:04
linh
pham



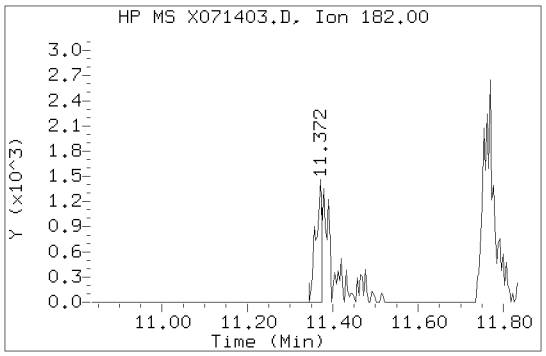
BEFORE

MASS
182
AREA
1413
HEIGHT
1466
20-Jul-2023
15:04
linh
pham



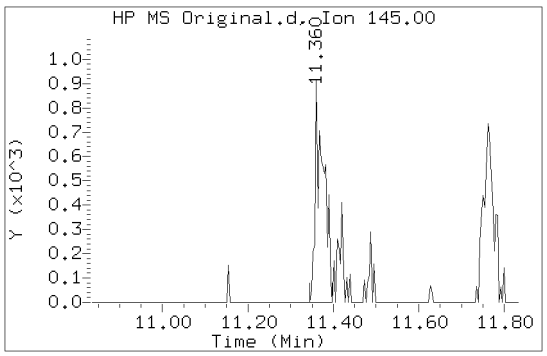
AFTER

MASS
182
AREA
1413
HEIGHT
1466
20-Jul-2023
15:04
linh
pham



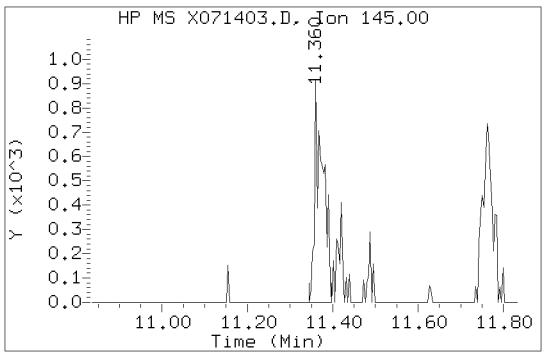
BEFORE

MASS
145
AREA
1239
HEIGHT
912
20-Jul-2023
15:04
linh
pham



AFTER

MASS
145
AREA
1239
HEIGHT
912
20-Jul-2023
15:04
linh
pham

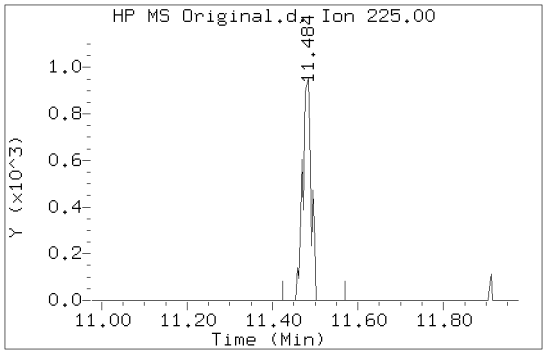


Hexachlorobutadiene (87-68-3)

Reason Code:

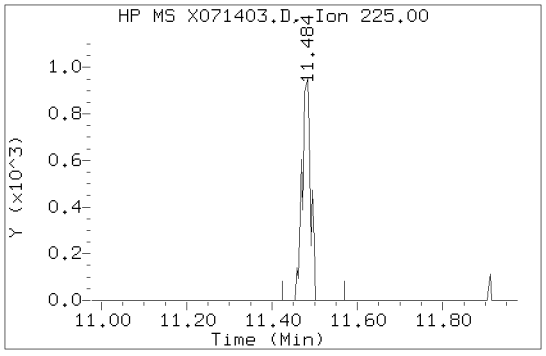
BEFORE

MASS
225
AREA
1357
HEIGHT
951
20-Jul-2023
15:04
linh
pham



AFTER

MASS
225
AREA
1357
HEIGHT
951
20-Jul-2023
15:04
linh
pham

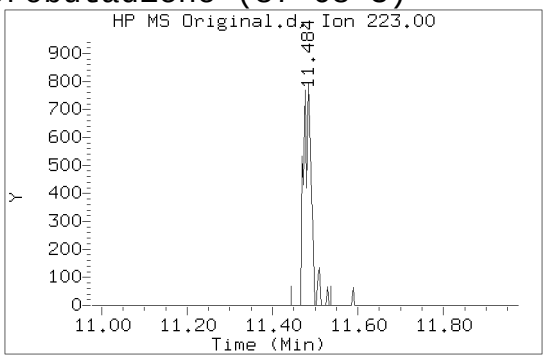


Data File : \\NAHSTWS005\Target\chem\voa6.i\X230714.b\X071403.D
Inj Date : 14-JUL-2023 12:22
InstruID : voa6.i
LabSampID : VSTD000.5

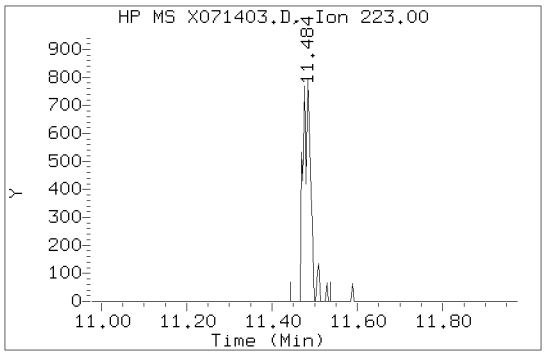
Hexachlorobutadiene (87-68-3)

Reason Code:

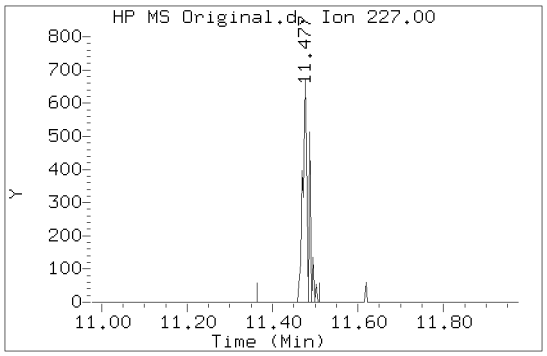
BEFORE
MASS
223
AREA
1025
HEIGHT
792
20-Jul-2023
15:04
linh
pham



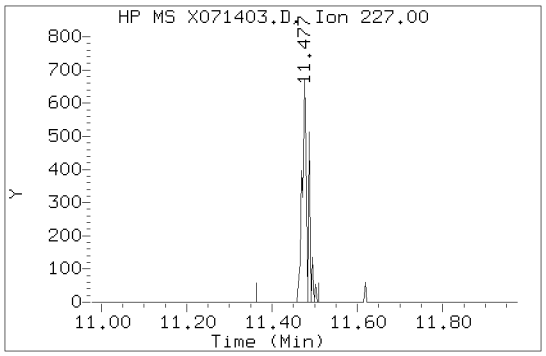
AFTER
MASS
223
AREA
1025
HEIGHT
792
20-Jul-2023
15:04
linh
pham



BEFORE
MASS
227
AREA
611
HEIGHT
670
20-Jul-2023
15:04
linh
pham



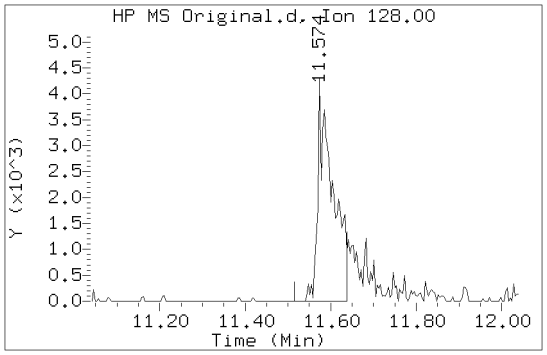
AFTER
MASS
227
AREA
611
HEIGHT
670
20-Jul-2023
15:04
linh
pham



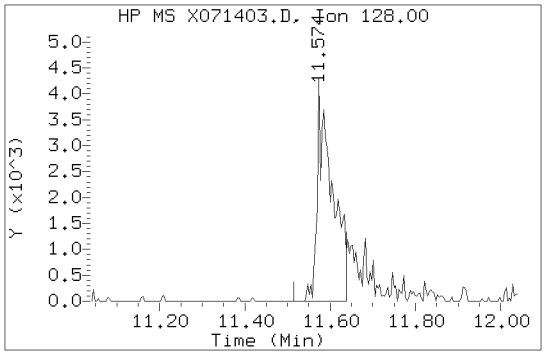
Naphthalene (91-20-3)

Reason Code:

BEFORE
MASS
128
AREA
10357
HEIGHT
4289
20-Jul-2023
15:04
linh
pham



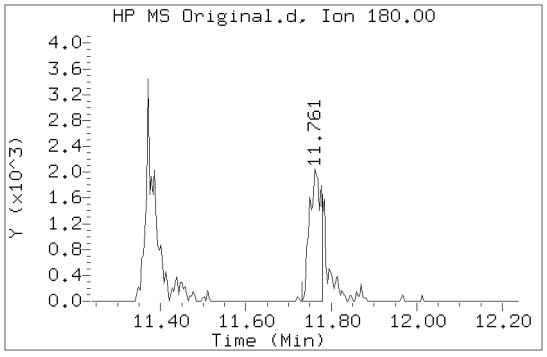
AFTER
MASS
128
AREA
10357
HEIGHT
4289
20-Jul-2023
15:04
linh
pham



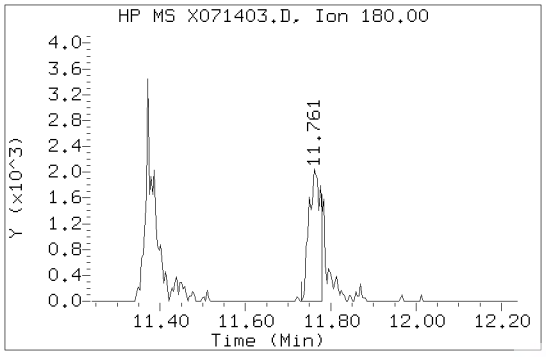
1,2,3-Trichlorobenzene (87-61-6)

Reason Code:

BEFORE
MASS
180
AREA
3845
HEIGHT
2053
20-Jul-2023
15:04
linh
pham



AFTER
MASS
180
AREA
3845
HEIGHT
2053
20-Jul-2023
15:04
linh
pham

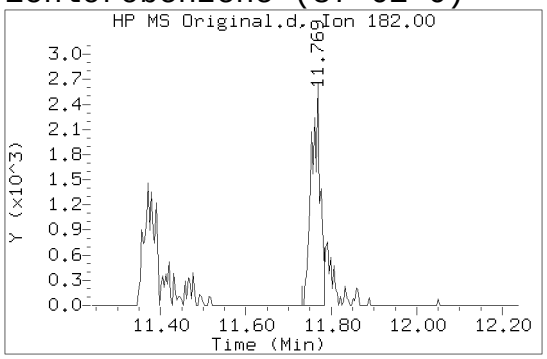


Data File : \\NAHSTWS005\Target\chem\voa6.i\X230714.b\X071403.D
Inj Date : 14-JUL-2023 12:22
InstruID : voa6.i
LabSampID : VSTD000.5

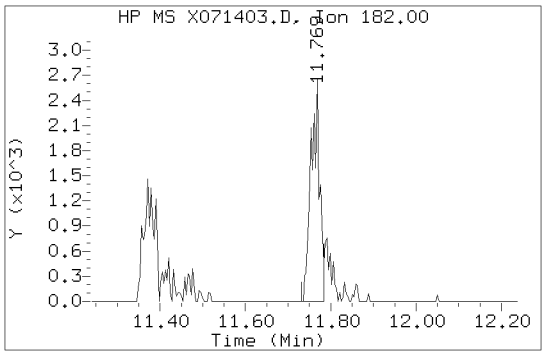
1,2,3-Trichlorobenzene (87-61-6)

Reason Code:

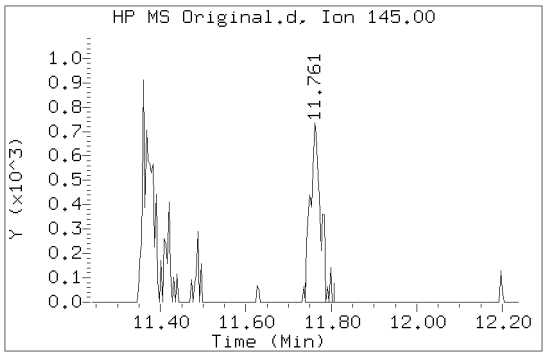
BEFORE
MASS
182
AREA
3757
HEIGHT
2648
20-Jul-2023
15:04
linh
pham



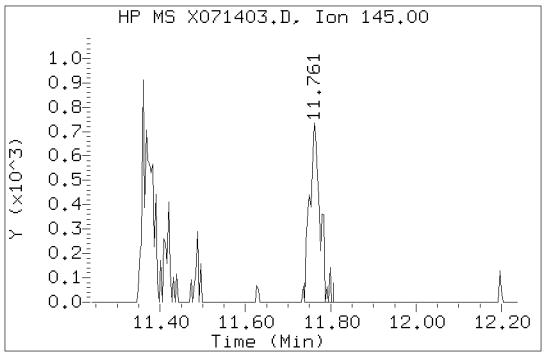
AFTER
MASS
182
AREA
3757
HEIGHT
2648
20-Jul-2023
15:04
linh
pham



BEFORE
MASS
145
AREA
1239
HEIGHT
737
20-Jul-2023
15:04
linh
pham



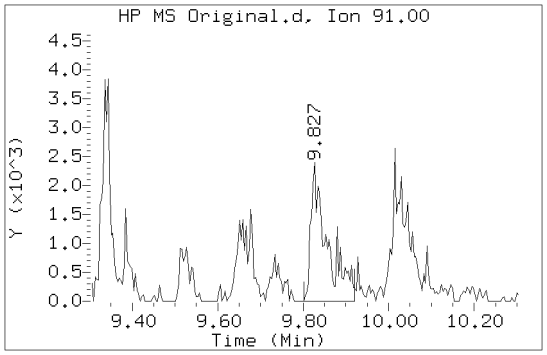
AFTER
MASS
145
AREA
1239
HEIGHT
737
20-Jul-2023
15:04
linh
pham



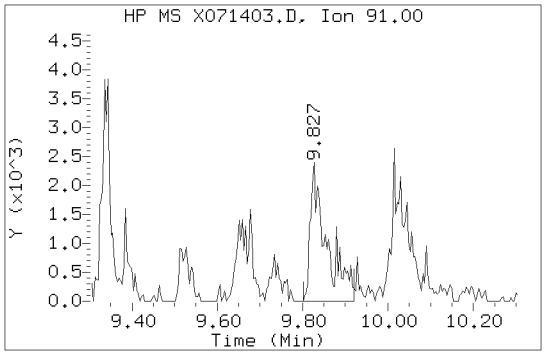
Benzyl Chloride (100-44-7)

Reason Code:

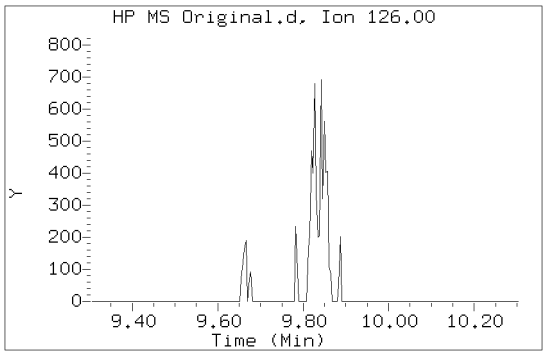
BEFORE
MASS
91
AREA
6245
HEIGHT
2401
20-Jul-2023
15:04
linh
pham



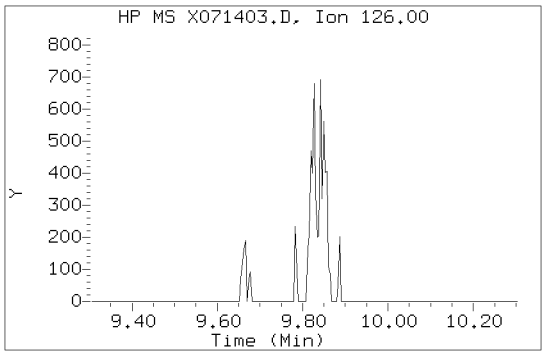
AFTER
MASS
91
AREA
6245
HEIGHT
2401
20-Jul-2023
15:04
linh
pham



BEFORE
MASS
126
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham



AFTER
MASS
126
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham



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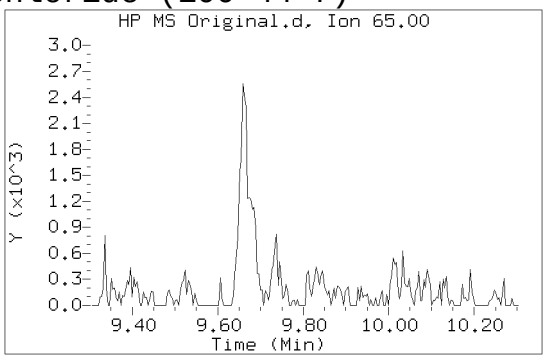
Inj Date : 14-JUL-2023 12:22
InstruID : voa6.i
LabSampID : VSTD000.5

Benzyl Chloride (100-44-7)

Reason Code:

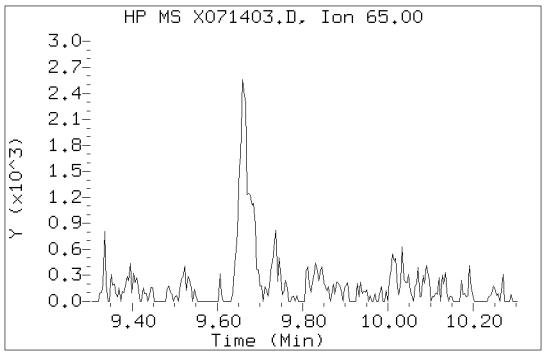
BEFORE

MASS
65
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham



AFTER

MASS
65
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham

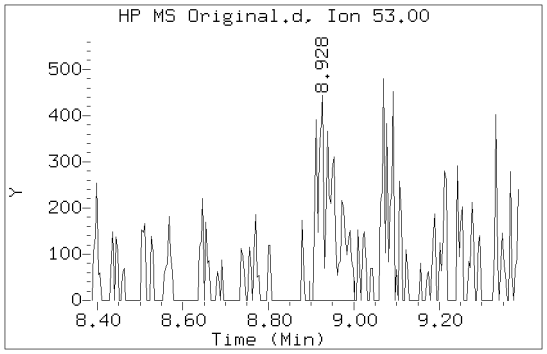


trans-1,4-Dichloro-2-butene (110-57-6)

Reason Code:

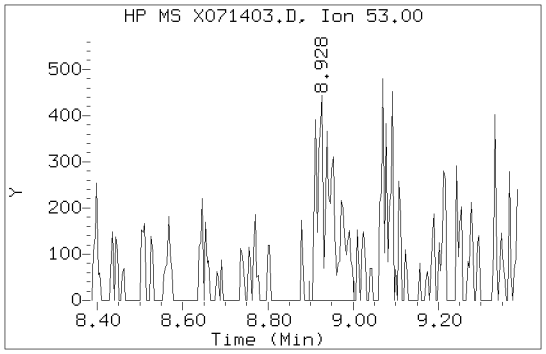
BEFORE

MASS
53
AREA
1124
HEIGHT
444
20-Jul-2023
15:04
linh
pham



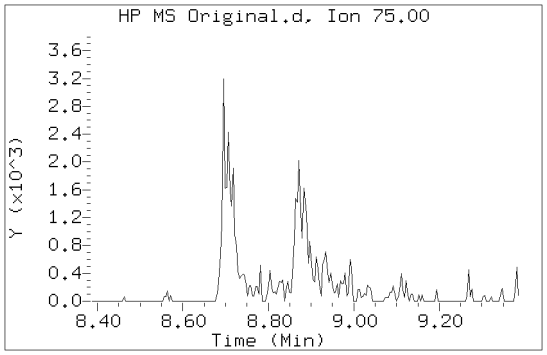
AFTER

MASS
53
AREA
1124
HEIGHT
444
20-Jul-2023
15:04
linh
pham



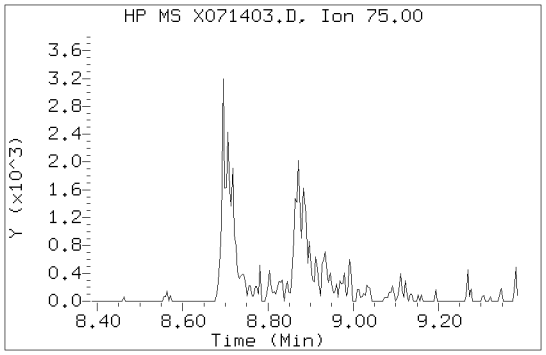
BEFORE

MASS
75
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham



AFTER

MASS
75
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham

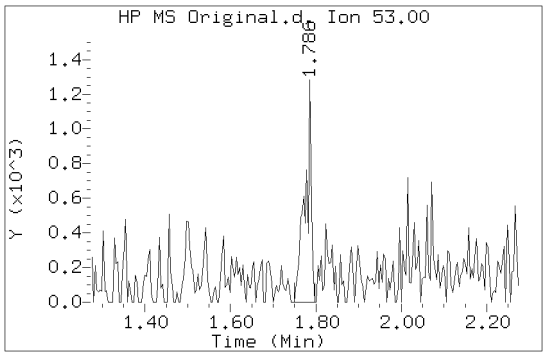


Chloroprene (126-99-8)

Reason Code:

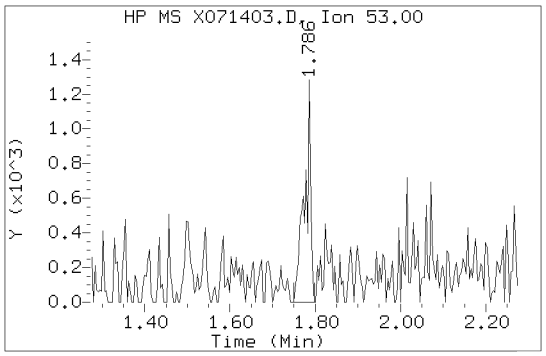
BEFORE

MASS
53
AREA
1292
HEIGHT
1283
20-Jul-2023
15:04
linh
pham



AFTER

MASS
53
AREA
1292
HEIGHT
1283
20-Jul-2023
15:04
linh
pham



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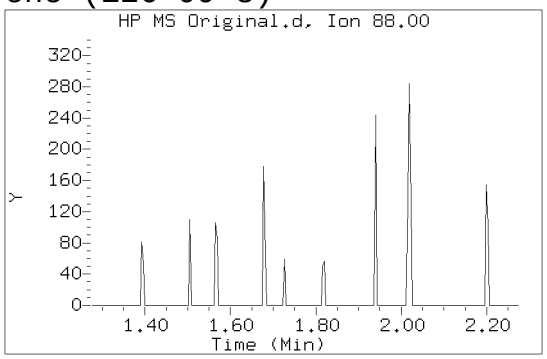
Inj Date : 14-JUL-2023 12:22
InstruID : voa6.i
LabSampID : VSTD000.5

Chloroprene (126-99-8)

Reason Code:

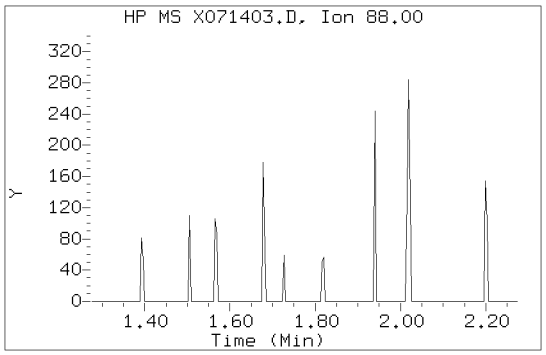
BEFORE

MASS
88
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham



AFTER

MASS
88
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham

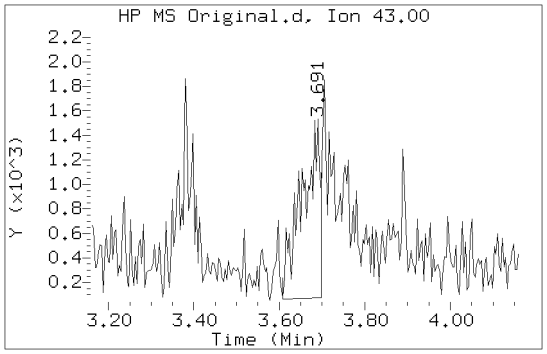


Ethyl Acetate (141-78-6)

Reason Code:

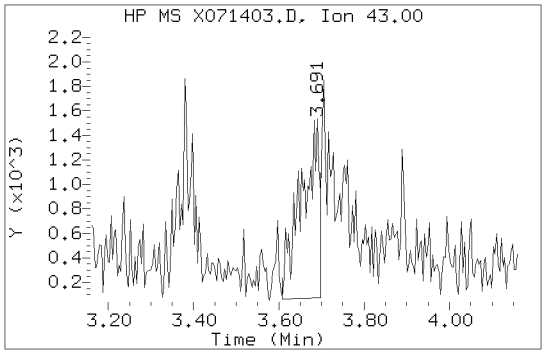
BEFORE

MASS
43
AREA
4291
HEIGHT
1463
20-Jul-2023
15:04
linh
pham



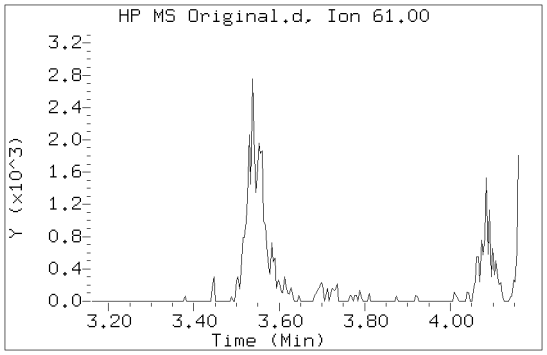
AFTER

MASS
43
AREA
4291
HEIGHT
1463
20-Jul-2023
15:04
linh
pham



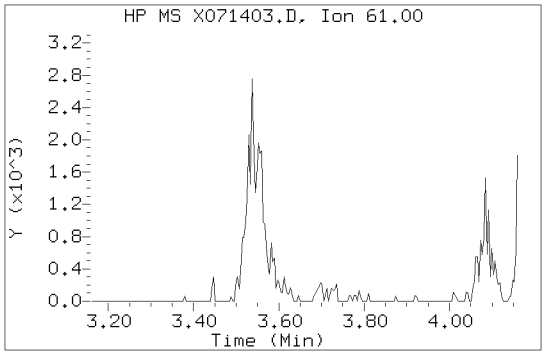
BEFORE

MASS
61
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham



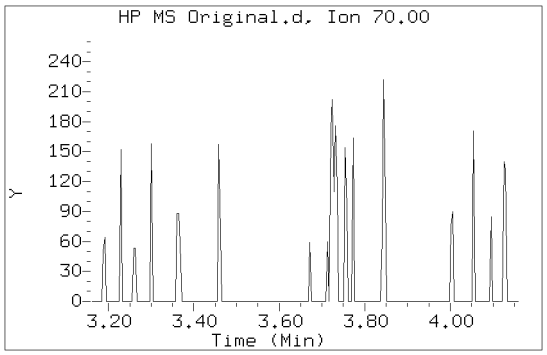
AFTER

MASS
61
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham



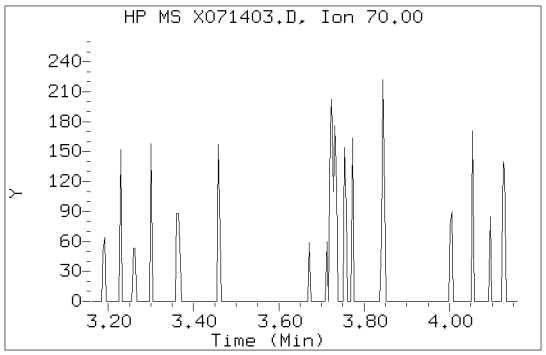
BEFORE

MASS
70
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham



AFTER

MASS
70
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham



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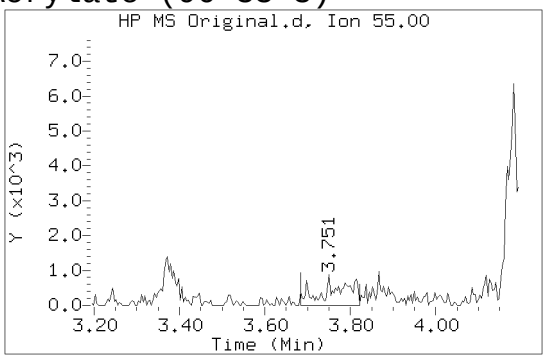
Inj Date : 14-JUL-2023 12:22
InstruID : voa6.i
LabSampID : VSTD000.5

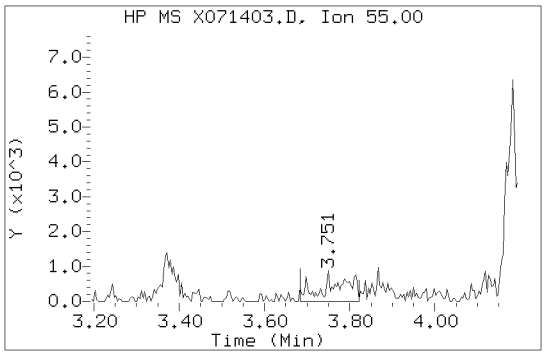
Methyl Acrylate (96-33-3)

BEFORE
MASS
55
AREA
3365
HEIGHT
887
20-Jul-2023
15:04
linh
pham

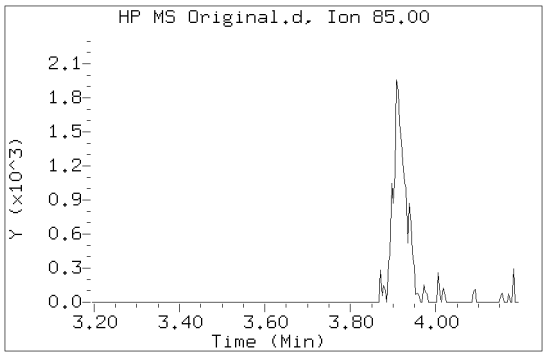


AFTER
MASS
55
AREA
3365
HEIGHT
887
20-Jul-2023
15:04
linh
pham

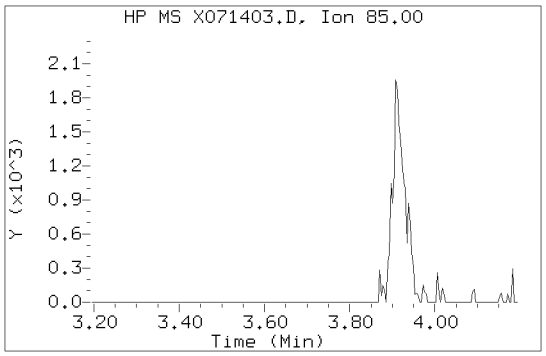
Reason Code:



BEFORE
MASS
85
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham

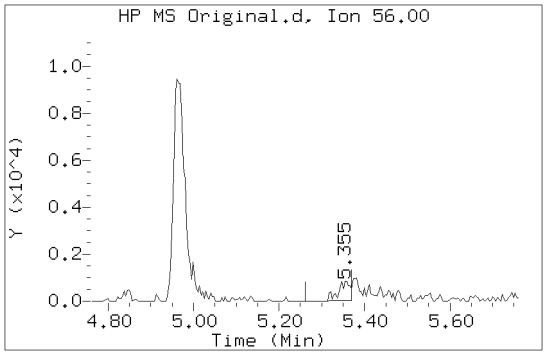


AFTER
MASS
85
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham



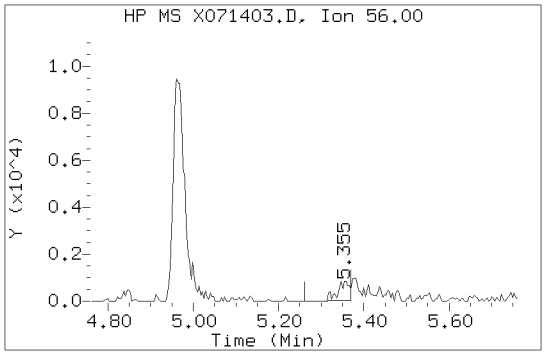
n-Butanol (71-36-3)

BEFORE
MASS
56
AREA
1626
HEIGHT
848
20-Jul-2023
15:04
linh
pham

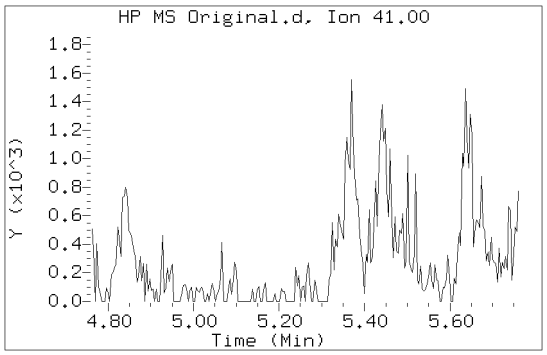


AFTER
MASS
56
AREA
1626
HEIGHT
848
20-Jul-2023
15:04
linh
pham

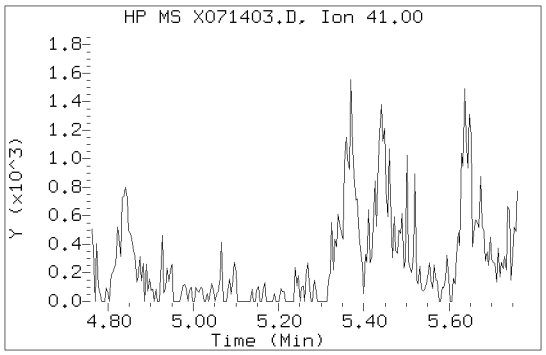
Reason Code:



BEFORE
MASS
41
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham



AFTER
MASS
41
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham



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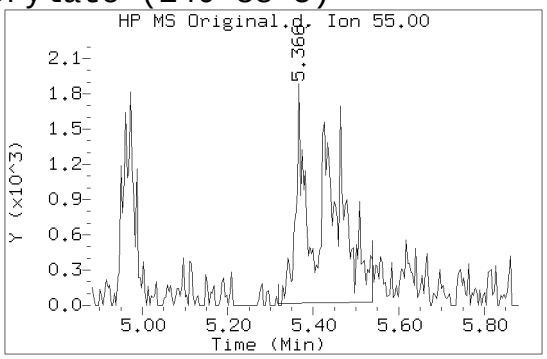
Inj Date : 14-JUL-2023 12:22
InstruID : voa6.i
LabSampID : VSTD000.5

Ethyl Acrylate (140-88-5)

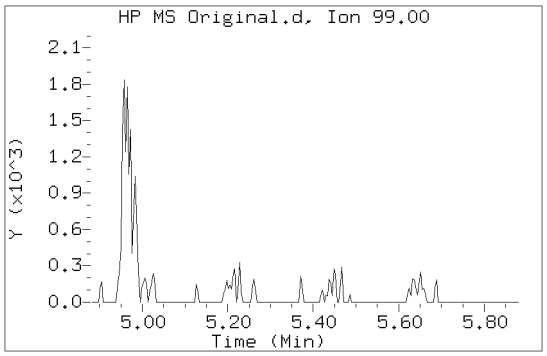
BEFORE

MASS
55
AREA
8232
HEIGHT
1867
20-Jul-2023
15:04
linh
pham



BEFORE

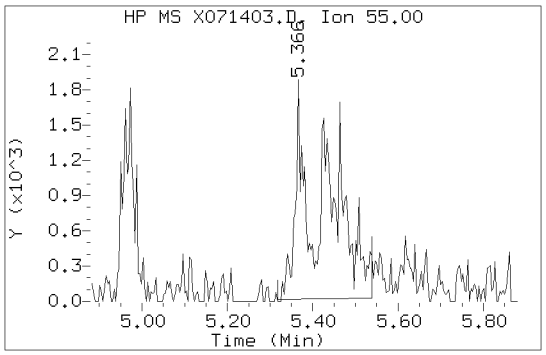
MASS
99
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham



Reason Code:

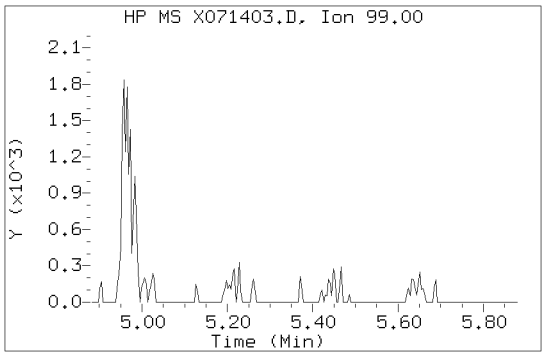
AFTER

MASS
55
AREA
8232
HEIGHT
1867
20-Jul-2023
15:04
linh
pham



AFTER

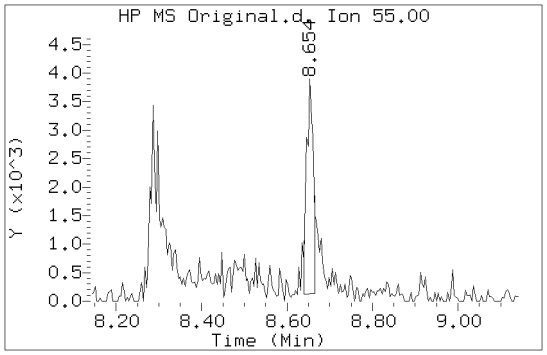
MASS
99
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham



Cyclohexanone (108-94-1)

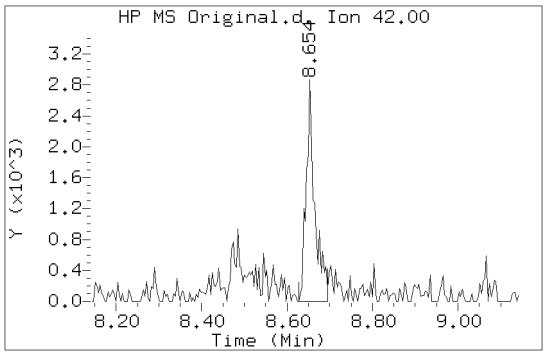
BEFORE

MASS
55
AREA
4174
HEIGHT
3766
20-Jul-2023
15:04
linh
pham



BEFORE

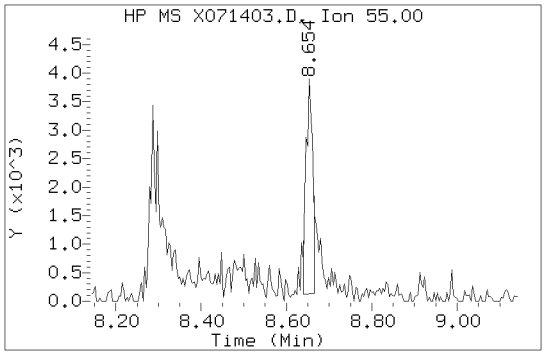
MASS
42
AREA
4022
HEIGHT
2868
20-Jul-2023
15:04
linh
pham



Reason Code:

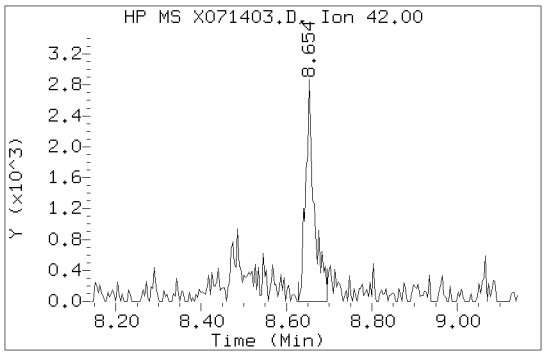
AFTER

MASS
55
AREA
4174
HEIGHT
3766
20-Jul-2023
15:04
linh
pham



AFTER

MASS
42
AREA
4022
HEIGHT
2868
20-Jul-2023
15:04
linh
pham



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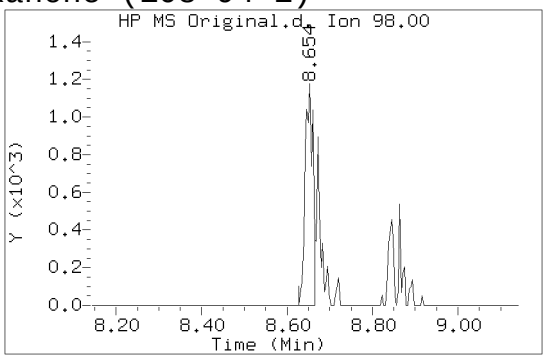
Inj Date : 14-JUL-2023 12:22
InstruID : voa6.i
LabSampID : VSTD000.5

Cyclohexanone (108-94-1)

Reason Code:

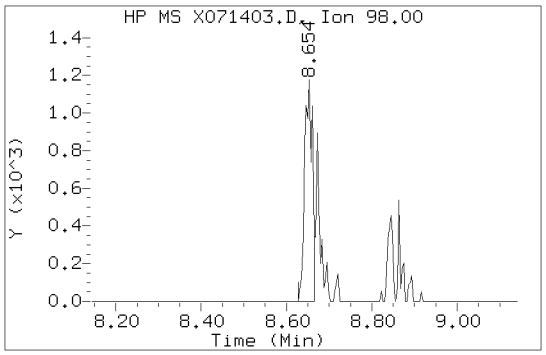
BEFORE

MASS
98
AREA
1506
HEIGHT
1177
20-Jul-2023
15:04
linh
pham



AFTER

MASS
98
AREA
1506
HEIGHT
1177
20-Jul-2023
15:04
linh
pham

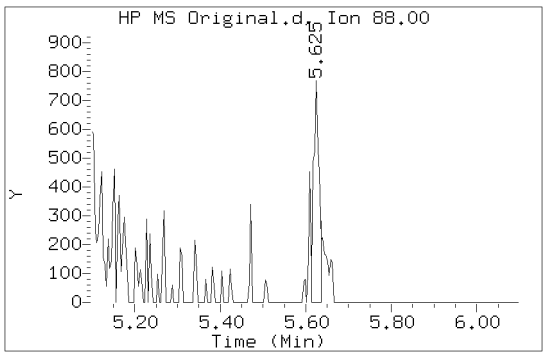


1,4-Dioxane ()

Reason Code:

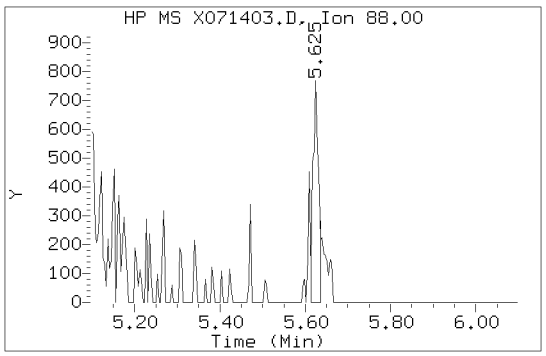
BEFORE

MASS
88
AREA
692
HEIGHT
769
20-Jul-2023
15:04
linh
pham



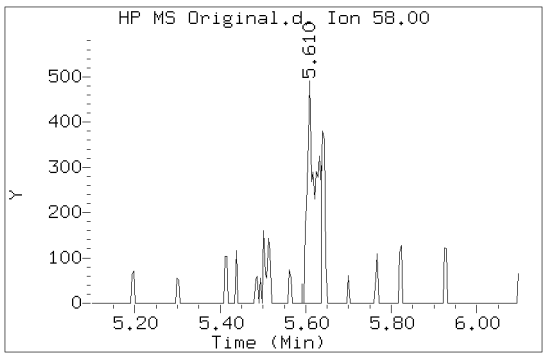
AFTER

MASS
88
AREA
692
HEIGHT
769
20-Jul-2023
15:04
linh
pham



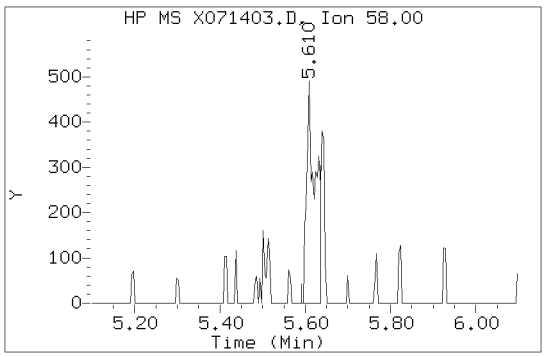
BEFORE

MASS
58
AREA
715
HEIGHT
491
20-Jul-2023
15:04
linh
pham



AFTER

MASS
58
AREA
715
HEIGHT
491
20-Jul-2023
15:04
linh
pham

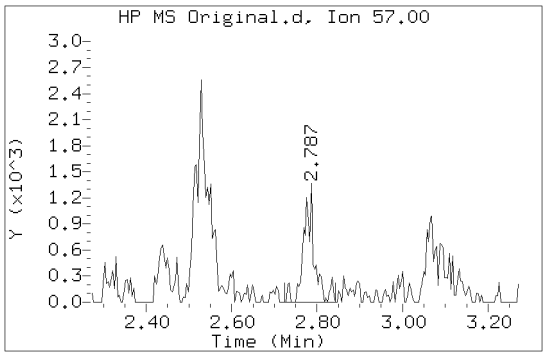


n-Hexane (110-54-3)

Reason Code:

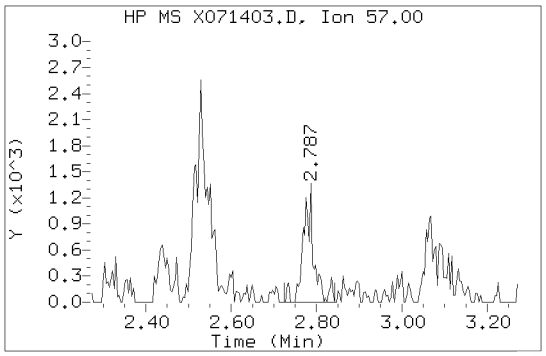
BEFORE

MASS
57
AREA
2320
HEIGHT
1372
20-Jul-2023
15:04
linh
pham



AFTER

MASS
57
AREA
2320
HEIGHT
1372
20-Jul-2023
15:04
linh
pham

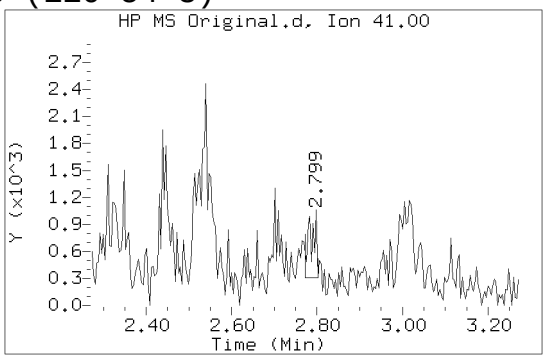


Data File : \\NAHSTWS005\Target\chem\voa6.i\X230714.b\X071403.D
Inj Date : 14-JUL-2023 12:22
InstruID : voa6.i
LabSampID : VSTD000.5

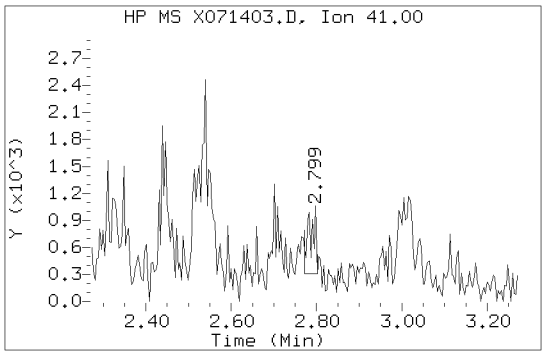
n-Hexane (110-54-3)

Reason Code:

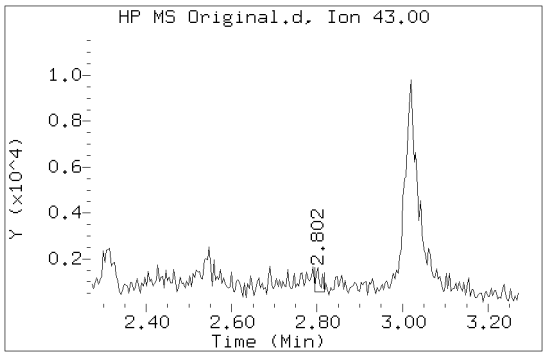
BEFORE
MASS
41
AREA
798
HEIGHT
755
20-Jul-2023
15:04
linh
pham



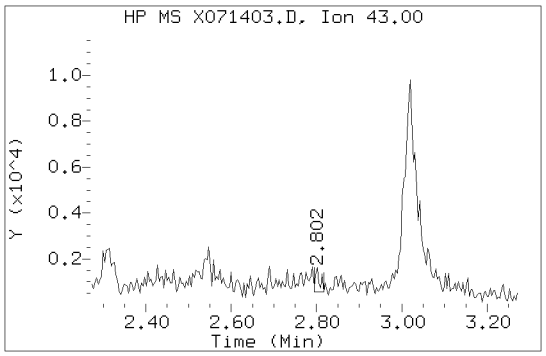
AFTER
MASS
41
AREA
798
HEIGHT
755
20-Jul-2023
15:04
linh
pham



BEFORE
MASS
43
AREA
753
HEIGHT
1069
20-Jul-2023
15:04
linh
pham



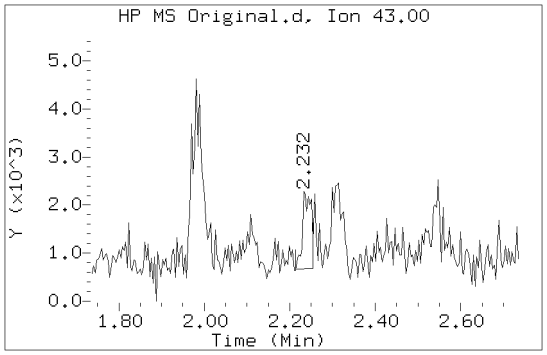
AFTER
MASS
43
AREA
753
HEIGHT
1069
20-Jul-2023
15:04
linh
pham



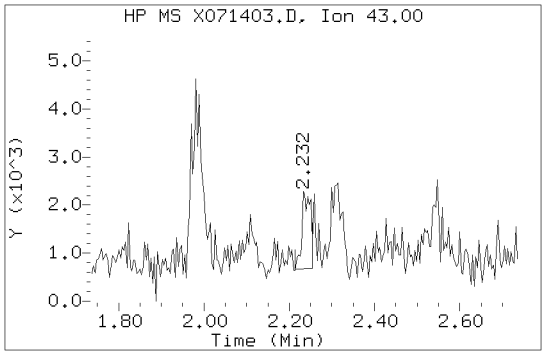
Methyl acetate (79-20-9)

Reason Code:

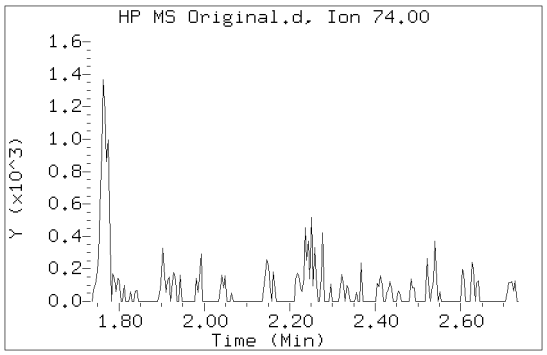
BEFORE
MASS
43
AREA
2344
HEIGHT
1617
20-Jul-2023
15:04
linh
pham



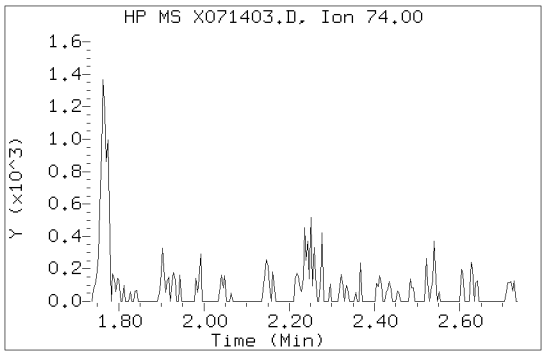
AFTER
MASS
43
AREA
2344
HEIGHT
1617
20-Jul-2023
15:04
linh
pham



BEFORE
MASS
74
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham



AFTER
MASS
74
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham



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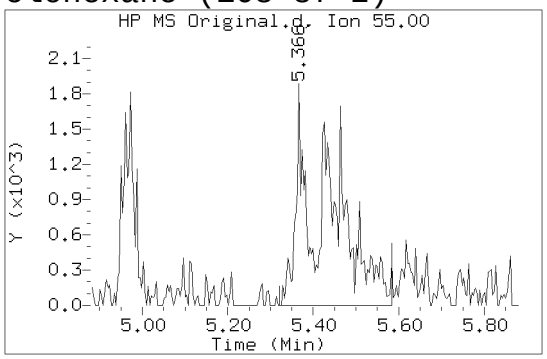
Inj Date : 14-JUL-2023 12:22
InstruID : voa6.i
LabSampID : VSTD000.5

Methylcyclohexane (108-87-2)

Reason Code:

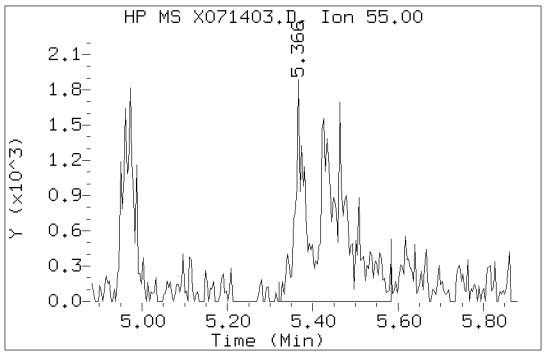
BEFORE

MASS
55
AREA
9168
HEIGHT
1886
20-Jul-2023
15:04
linh
pham



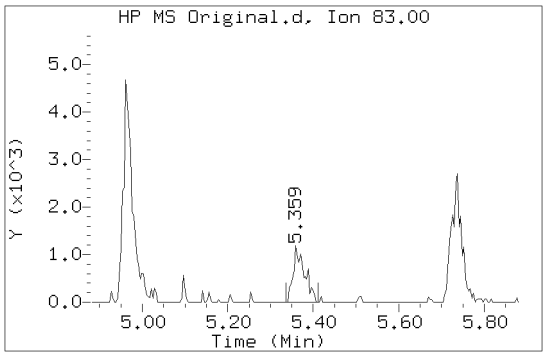
AFTER

MASS
55
AREA
9168
HEIGHT
1886
20-Jul-2023
15:04
linh
pham



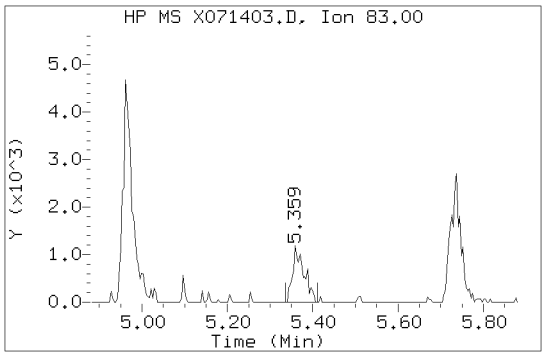
BEFORE

MASS
83
AREA
2193
HEIGHT
1189
20-Jul-2023
15:04
linh
pham



AFTER

MASS
83
AREA
2193
HEIGHT
1189
20-Jul-2023
15:04
linh
pham

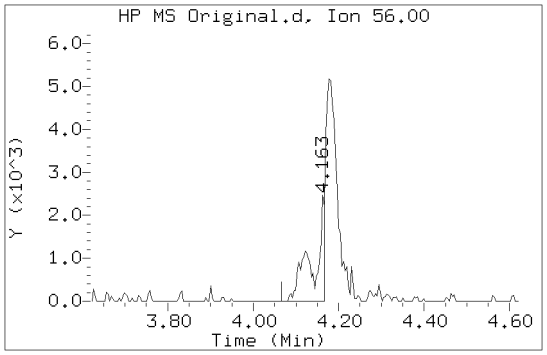


Cyclohexane (110-82-7)

Reason Code:

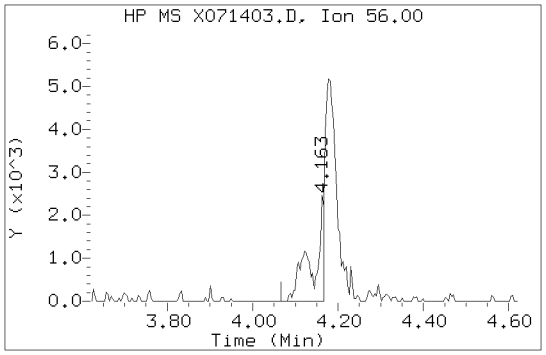
BEFORE

MASS
56
AREA
4321
HEIGHT
2474
20-Jul-2023
15:04
linh
pham



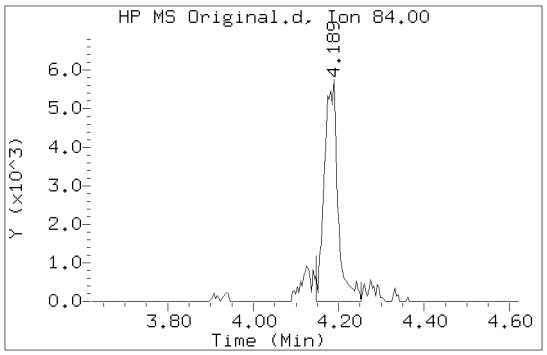
AFTER

MASS
56
AREA
4321
HEIGHT
2474
20-Jul-2023
15:04
linh
pham



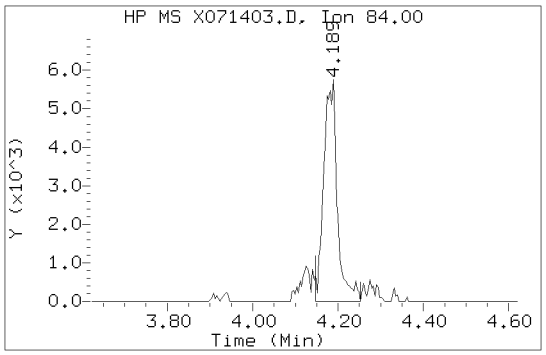
BEFORE

MASS
84
AREA
12654
HEIGHT
5754
20-Jul-2023
15:04
linh
pham



AFTER

MASS
84
AREA
12654
HEIGHT
5754
20-Jul-2023
15:04
linh
pham



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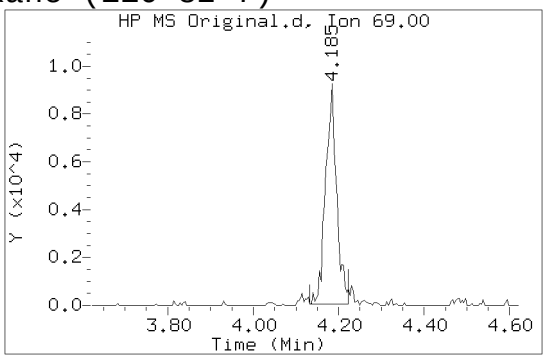
Inj Date : 14-JUL-2023 12:22
InstruID : voa6.i
LabSampID : VSTD000.5

Cyclohexane (110-82-7)

Reason Code:

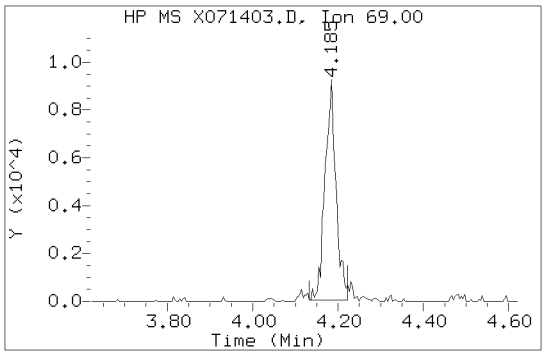
BEFORE

MASS
69
AREA
16448
HEIGHT
9203
20-Jul-2023
15:04
linh
pham



AFTER

MASS
69
AREA
16448
HEIGHT
9203
20-Jul-2023
15:04
linh
pham

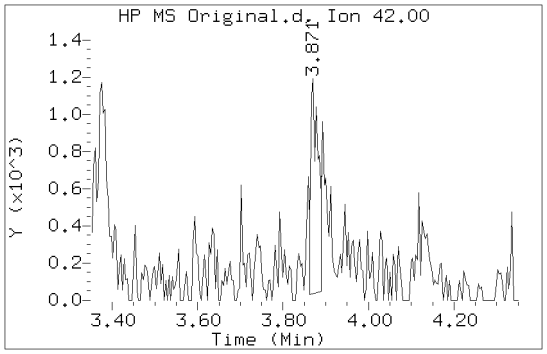


Tetrahydrofuran (109-99-9)

Reason Code:

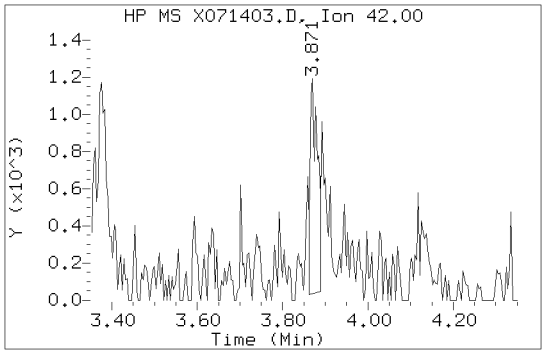
BEFORE

MASS
42
AREA
1418
HEIGHT
1157
20-Jul-2023
15:04
linh
pham



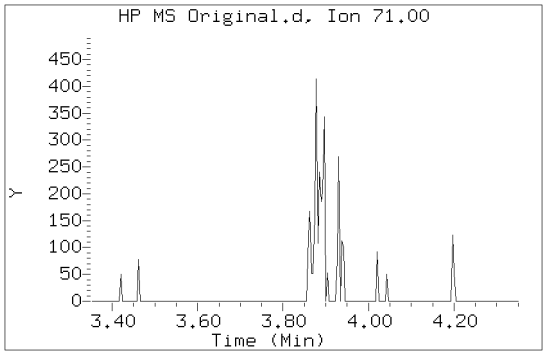
AFTER

MASS
42
AREA
1418
HEIGHT
1157
20-Jul-2023
15:04
linh
pham



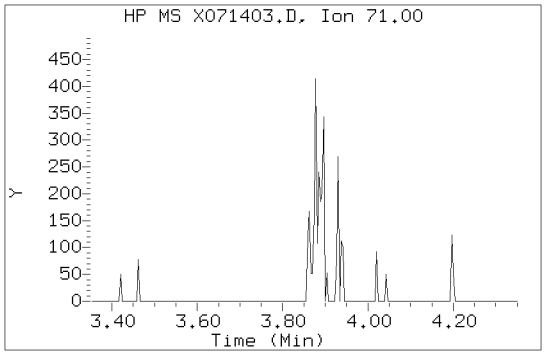
BEFORE

MASS
71
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham



AFTER

MASS
71
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham

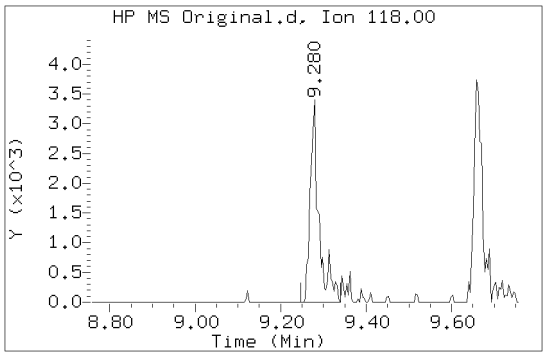


alpha-Methylstyrene (98-83-9)

Reason Code:

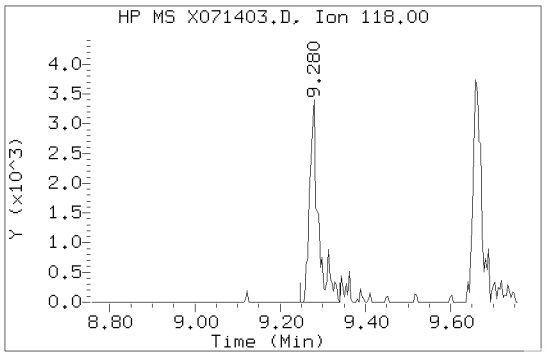
BEFORE

MASS
118
AREA
4759
HEIGHT
3401
20-Jul-2023
15:04
linh
pham



AFTER

MASS
118
AREA
4759
HEIGHT
3401
20-Jul-2023
15:04
linh
pham



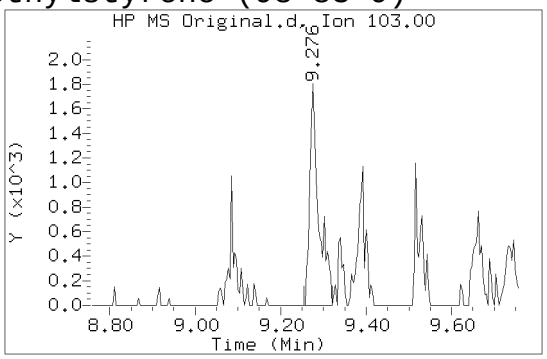
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230714.b\X071403.D
Inj Date : 14-JUL-2023 12:22
InstruID : voa6.i
LabSampID : VSTD000.5

alpha-Methylstyrene (98-83-9)

Reason Code:

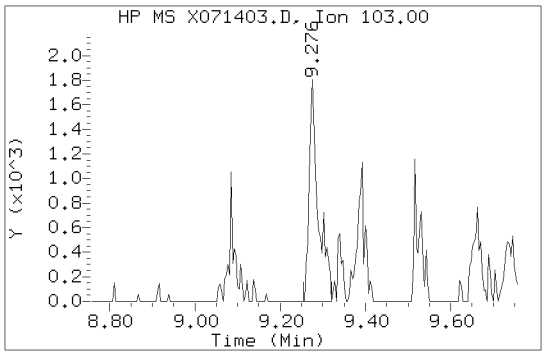
BEFORE

MASS
103
AREA
2652
HEIGHT
1804
20-Jul-2023
15:04
linh
pham



AFTER

MASS
103
AREA
2652
HEIGHT
1804
20-Jul-2023
15:04
linh
pham

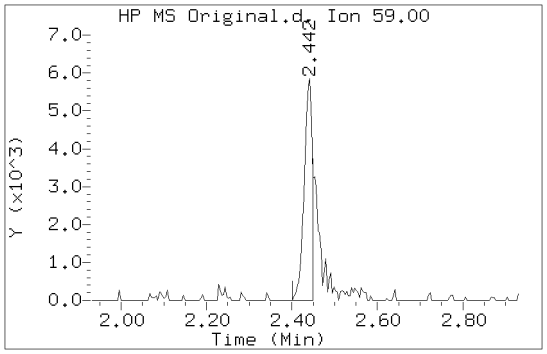


Tert-butyl alcohol (75-65-0)

Reason Code:

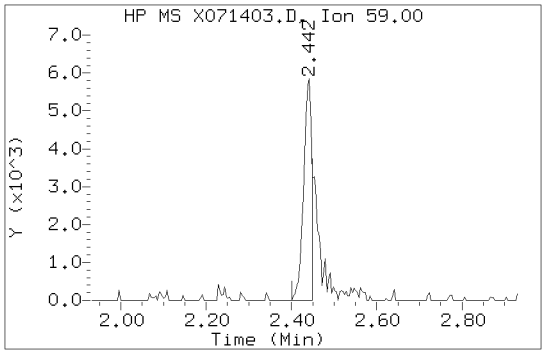
BEFORE

MASS
59
AREA
7856
HEIGHT
5851
20-Jul-2023
15:04
linh
pham



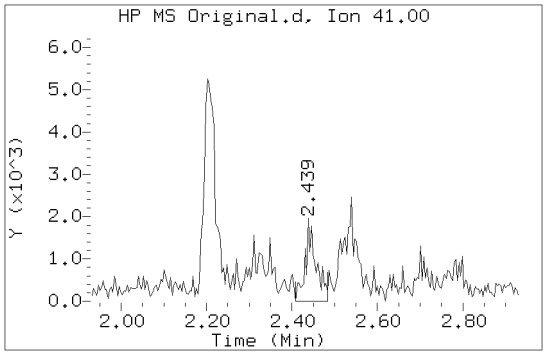
AFTER

MASS
59
AREA
7856
HEIGHT
5851
20-Jul-2023
15:04
linh
pham



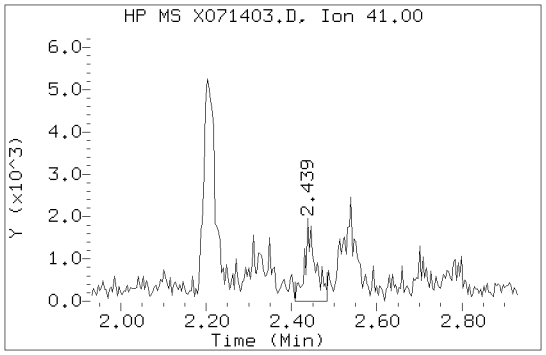
BEFORE

MASS
41
AREA
3380
HEIGHT
1954
20-Jul-2023
15:04
linh
pham



AFTER

MASS
41
AREA
3380
HEIGHT
1954
20-Jul-2023
15:04
linh
pham

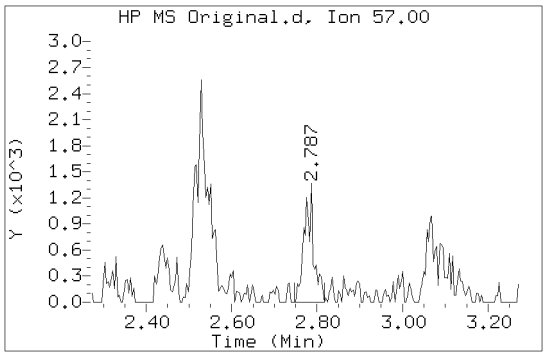


Allyl alcohol (107-18-6)

Reason Code:

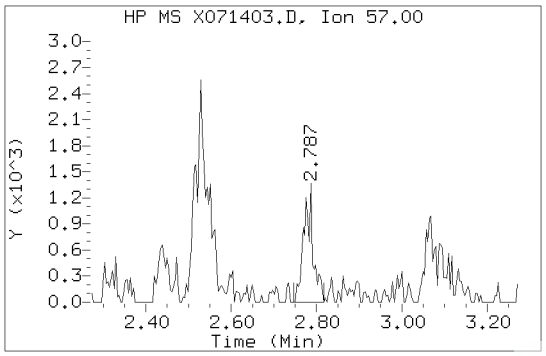
BEFORE

MASS
57
AREA
2068
HEIGHT
1372
20-Jul-2023
15:04
linh
pham



AFTER

MASS
57
AREA
2068
HEIGHT
1372
20-Jul-2023
15:04
linh
pham

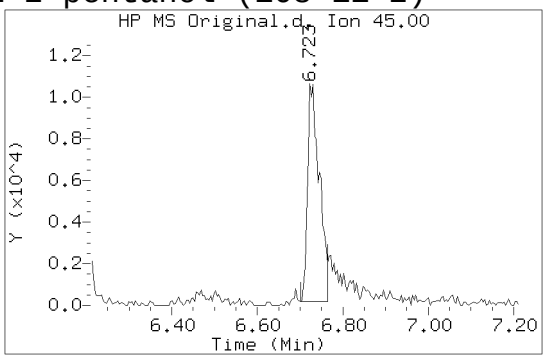


Data File : \\NAHSTWS005\Target\chem\voa6.i\X230714.b\X071403.D
Inj Date : 14-JUL-2023 12:22
InstruID : voa6.i
LabSampID : VSTD000.5

4-Methyl-2-pentanol (108-11-2)

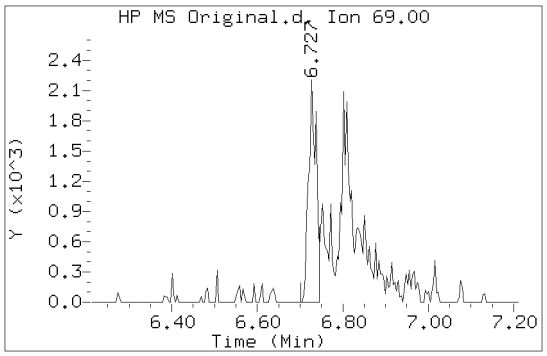
BEFORE

MASS
45
AREA
20217
HEIGHT
10478
20-Jul-2023
15:04
linh
pham



BEFORE

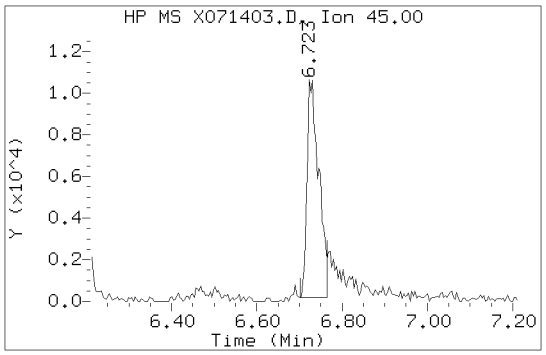
MASS
69
AREA
2780
HEIGHT
2206
20-Jul-2023
15:04
linh
pham



Reason Code:

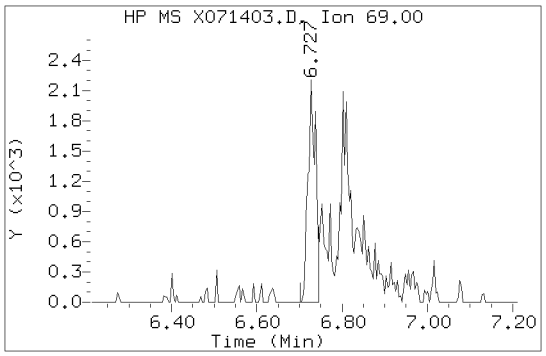
AFTER

MASS
45
AREA
20217
HEIGHT
10478
20-Jul-2023
15:04
linh
pham



AFTER

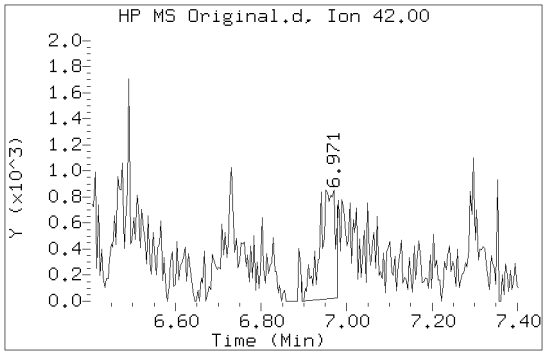
MASS
69
AREA
2780
HEIGHT
2206
20-Jul-2023
15:04
linh
pham



Amyl alcohol (71-41-0)

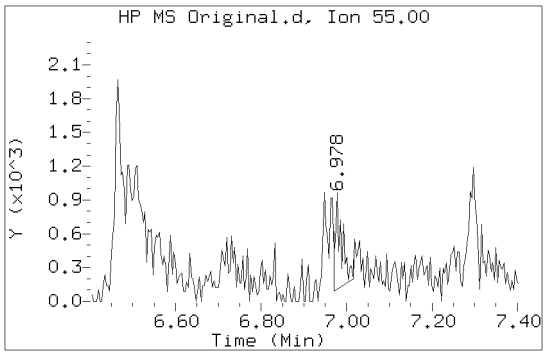
BEFORE

MASS
42
AREA
2120
HEIGHT
829
20-Jul-2023
15:04
linh
pham



BEFORE

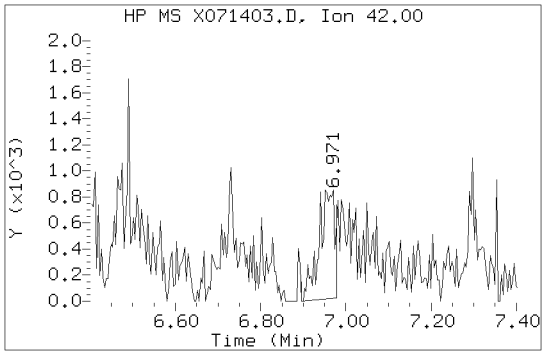
MASS
55
AREA
884
HEIGHT
854
20-Jul-2023
15:04
linh
pham



Reason Code:

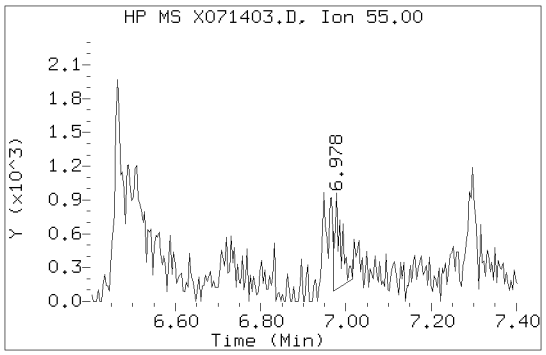
AFTER

MASS
42
AREA
2120
HEIGHT
829
20-Jul-2023
15:04
linh
pham



AFTER

MASS
55
AREA
884
HEIGHT
854
20-Jul-2023
15:04
linh
pham



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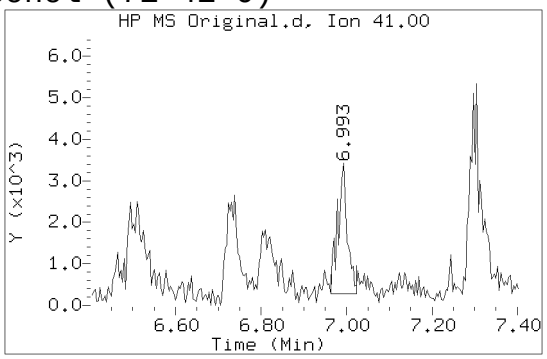
Inj Date : 14-JUL-2023 12:22
InstruID : voa6.i
LabSampID : VSTD000.5

Amyl alcohol (71-41-0)

Reason Code:

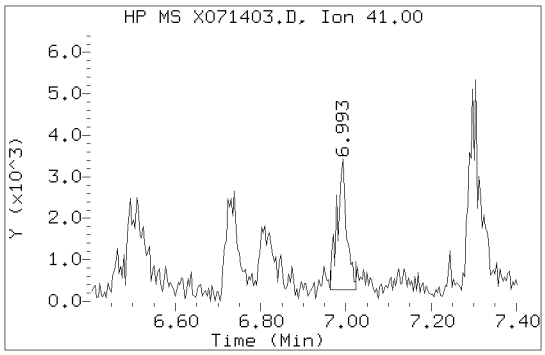
BEFORE

MASS
41
AREA
4891
HEIGHT
3144
20-Jul-2023
15:04
linh
pham



AFTER

MASS
41
AREA
4891
HEIGHT
3144
20-Jul-2023
15:04
linh
pham

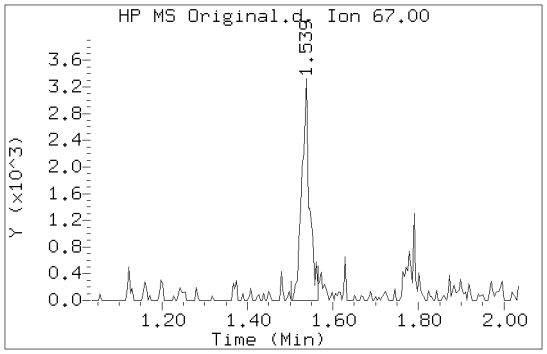


Dichlorofluoromethane (75-43-4)

Reason Code:

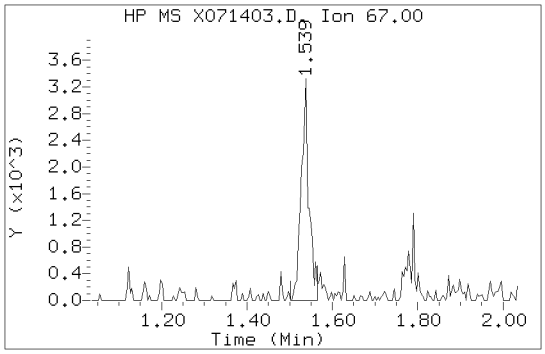
BEFORE

MASS
67
AREA
4296
HEIGHT
3324
20-Jul-2023
15:04
linh
pham



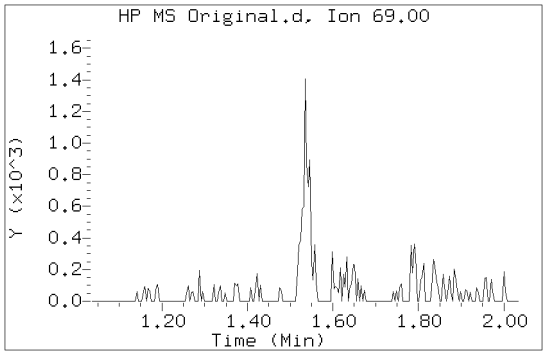
AFTER

MASS
67
AREA
4296
HEIGHT
3324
20-Jul-2023
15:04
linh
pham



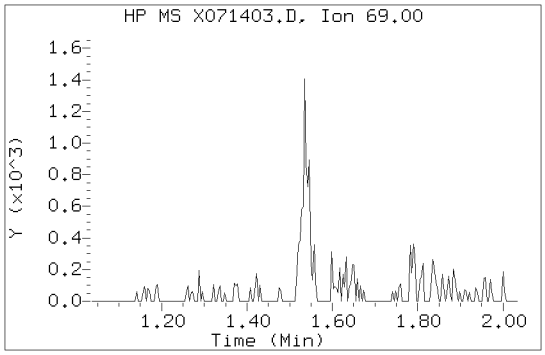
BEFORE

MASS
69
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham



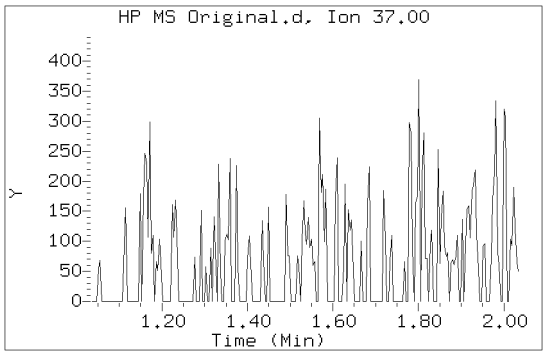
AFTER

MASS
69
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham



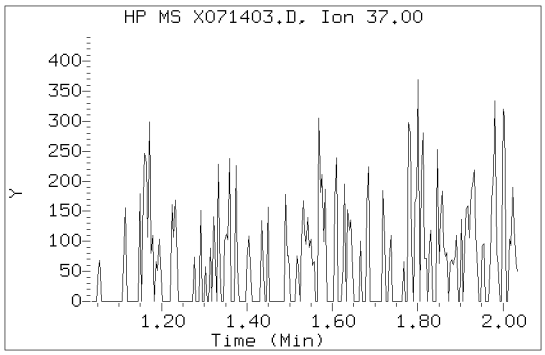
BEFORE

MASS
37
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham



AFTER

MASS
37
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham



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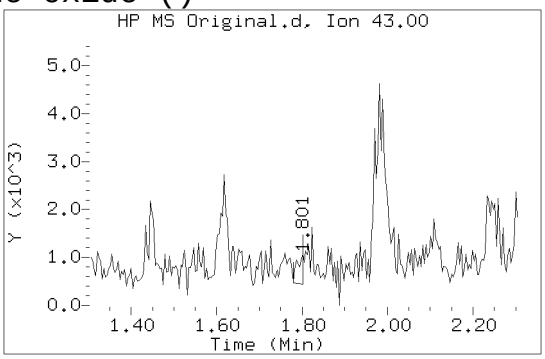
Inj Date : 14-JUL-2023 12:22
InstruID : voa6.i
LabSampID : VSTD000.5

Propylene oxide ()

Reason Code:

BEFORE
MASS
43
AREA
615
HEIGHT
640
20-Jul-2023
15:04
linh
pham



AFTER
MASS
43
AREA
615
HEIGHT
640
20-Jul-2023
15:04
linh
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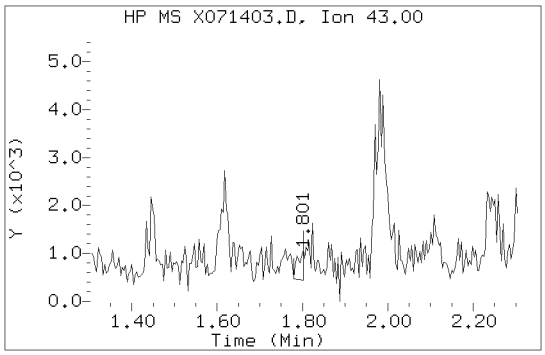

BEFORE
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58
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HEIGHT
1380
20-Jul-2023
15:04
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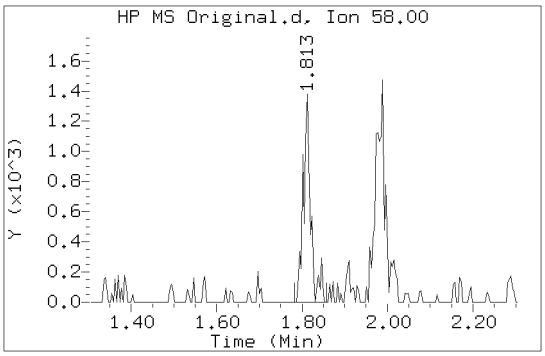
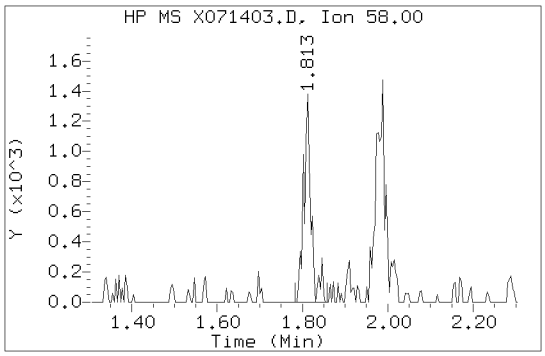


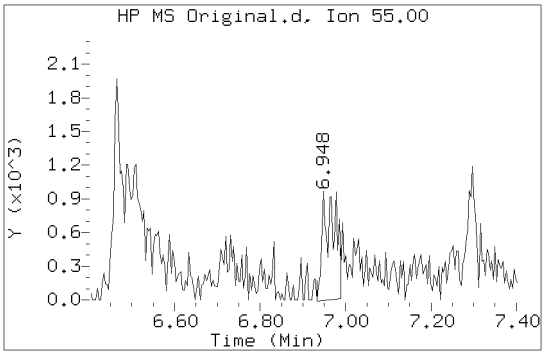
AFTER
MASS
58
AREA
1675
HEIGHT
1380
20-Jul-2023
15:04
linh
pham



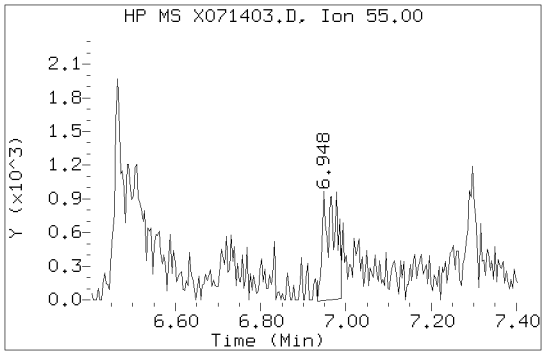
3-Methyl-1-butanol (123-51-3)

Reason Code:

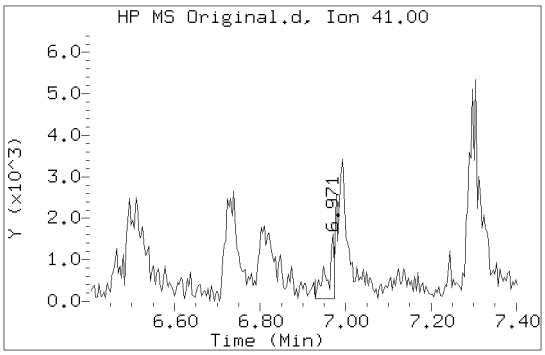
BEFORE
MASS
55
AREA
1945
HEIGHT
970
20-Jul-2023
15:04
linh
pham



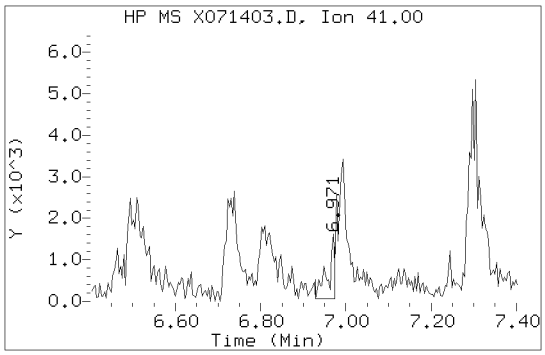
AFTER
MASS
55
AREA
1945
HEIGHT
970
20-Jul-2023
15:04
linh
pham



BEFORE
MASS
41
AREA
1621
HEIGHT
1554
20-Jul-2023
15:04
linh
pham



AFTER
MASS
41
AREA
1621
HEIGHT
1554
20-Jul-2023
15:04
linh
pham



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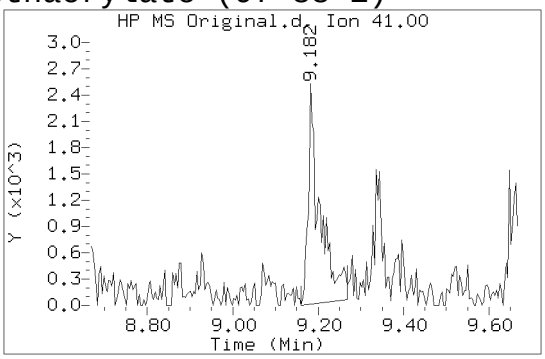
Inj Date : 14-JUL-2023 12:22
InstruID : voa6.i
LabSampID : VSTD000.5

Butyl methacrylate (97-88-1)

Reason Code:

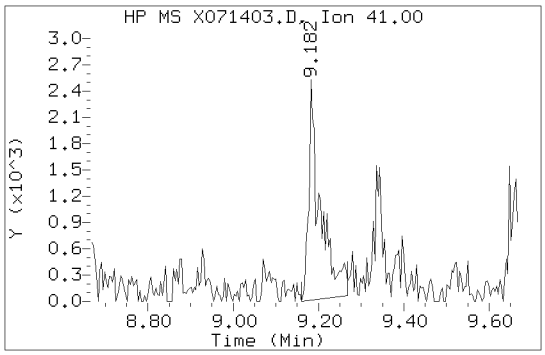
BEFORE

MASS
41
AREA
4724
HEIGHT
2516
20-Jul-2023
15:04
linh
pham



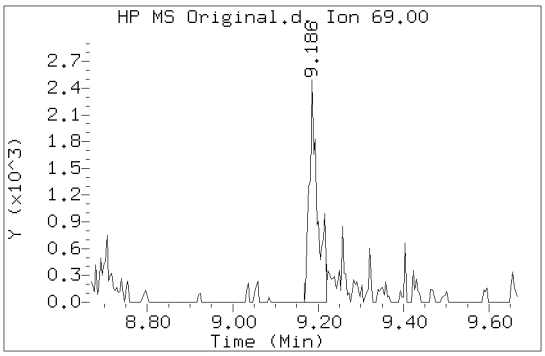
AFTER

MASS
41
AREA
4724
HEIGHT
2516
20-Jul-2023
15:04
linh
pham



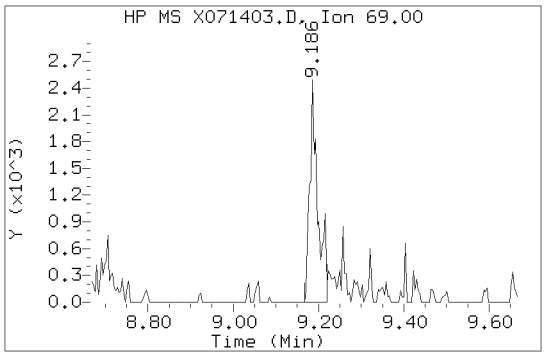
BEFORE

MASS
69
AREA
3258
HEIGHT
2492
20-Jul-2023
15:04
linh
pham



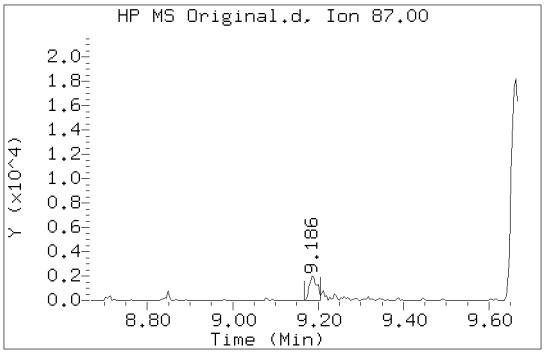
AFTER

MASS
69
AREA
3258
HEIGHT
2492
20-Jul-2023
15:04
linh
pham



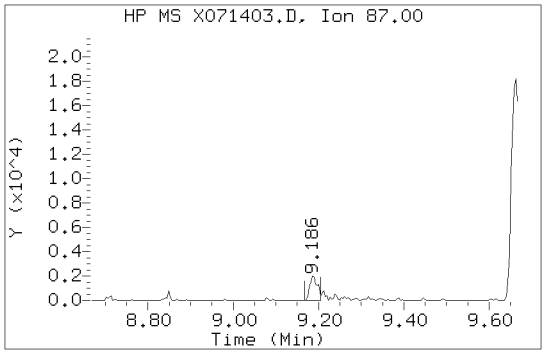
BEFORE

MASS
87
AREA
2479
HEIGHT
2026
20-Jul-2023
15:04
linh
pham



AFTER

MASS
87
AREA
2479
HEIGHT
2026
20-Jul-2023
15:04
linh
pham

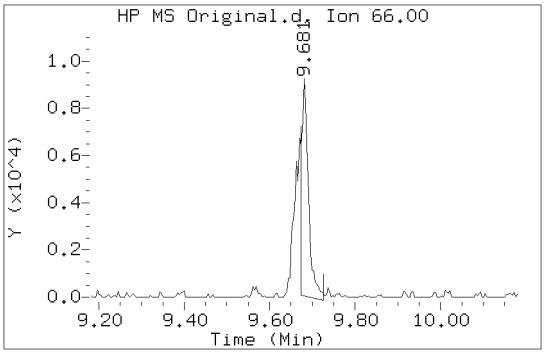


Dicyclopentadiene (77-73-6)

Reason Code:

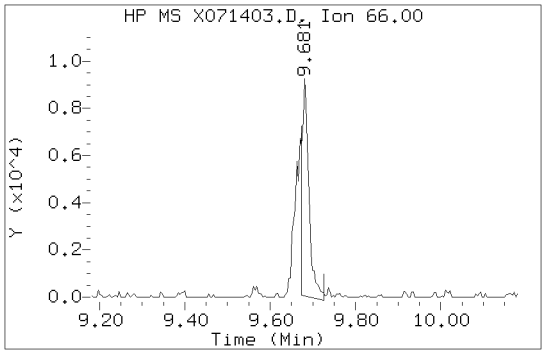
BEFORE

MASS
66
AREA
10848
HEIGHT
9195
20-Jul-2023
15:04
linh
pham



AFTER

MASS
66
AREA
10848
HEIGHT
9195
20-Jul-2023
15:04
linh
pham



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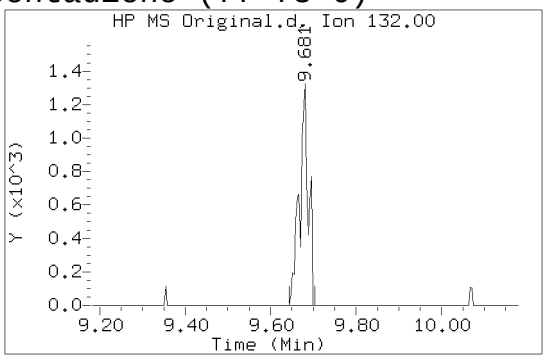
Inj Date : 14-JUL-2023 12:22
InstruID : voa6.i
LabSampID : VSTD000.5

Dicyclopentadiene (77-73-6)

Reason Code:

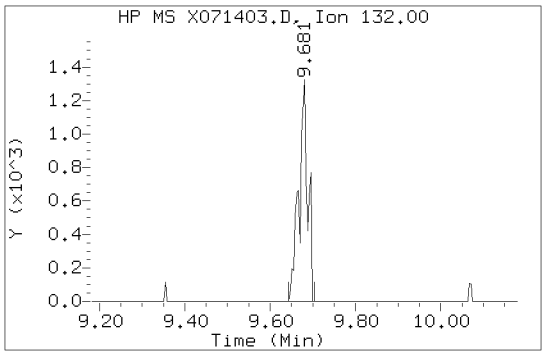
BEFORE

MASS
132
AREA
1955
HEIGHT
1325
20-Jul-2023
15:04
linh
pham



AFTER

MASS
132
AREA
1955
HEIGHT
1325
20-Jul-2023
15:04
linh
pham

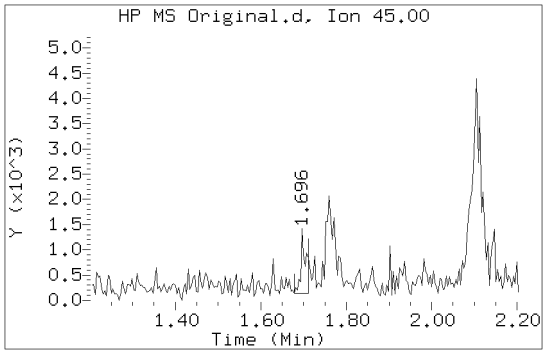


Ethanol (64-17-5)

Reason Code:

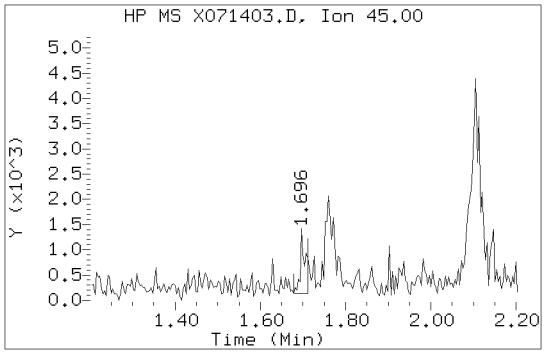
BEFORE

MASS
45
AREA
1082
HEIGHT
1281
20-Jul-2023
15:04
linh
pham



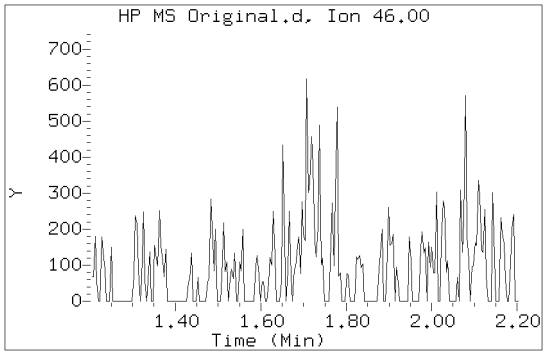
AFTER

MASS
45
AREA
1082
HEIGHT
1281
20-Jul-2023
15:04
linh
pham



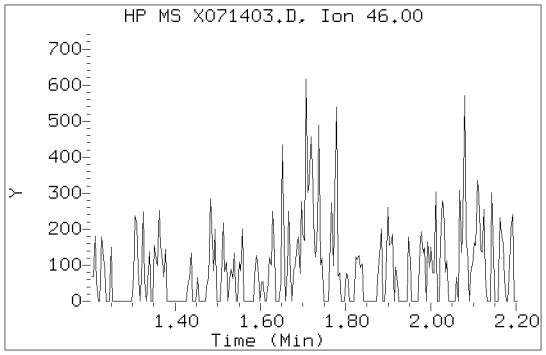
BEFORE

MASS
46
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham



AFTER

MASS
46
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham



BEFORE

MASS
43
AREA
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HEIGHT
0
20-Jul-2023
15:04
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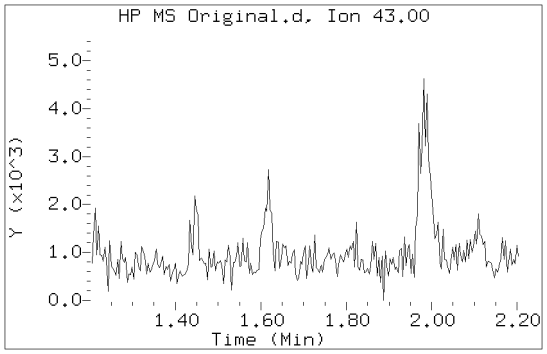
pham



AFTER

MASS
43
AREA
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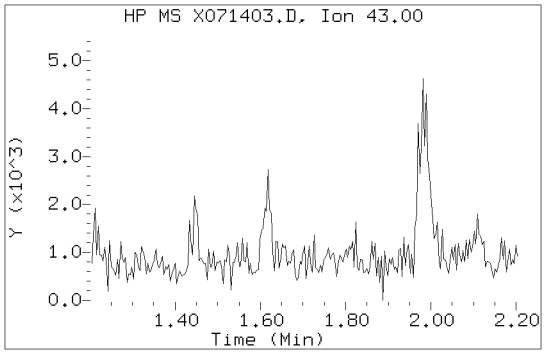
HEIGHT
0
20-Jul-2023
15:04
linh
pham



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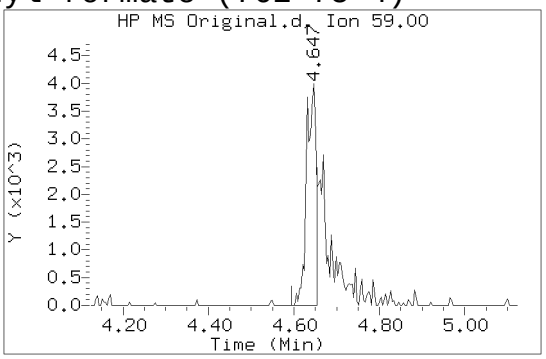
Inj Date : 14-JUL-2023 12:22
InstruID : voa6.i
LabSampID : VSTD000.5

tert-Butyl formate (762-75-4)

Reason Code:

BEFORE
MASS
59
AREA
6083
HEIGHT
3995
20-Jul-2023
15:04
linh
pham



AFTER
MASS
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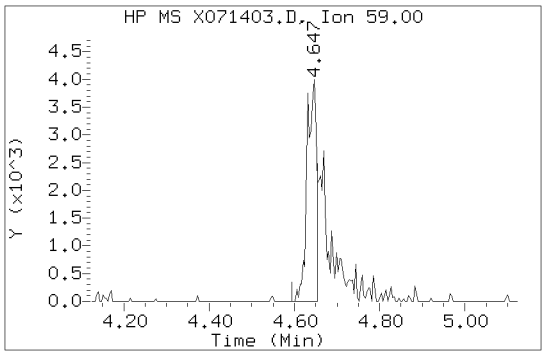
AREA
6083
HEIGHT
3995
20-Jul-2023
15:04
linh
pham



BEFORE
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AREA
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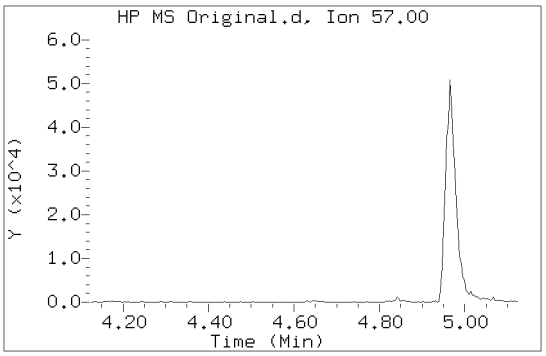
HEIGHT
0
20-Jul-2023
15:04
linh
pham



AFTER
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AREA
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HEIGHT
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20-Jul-2023
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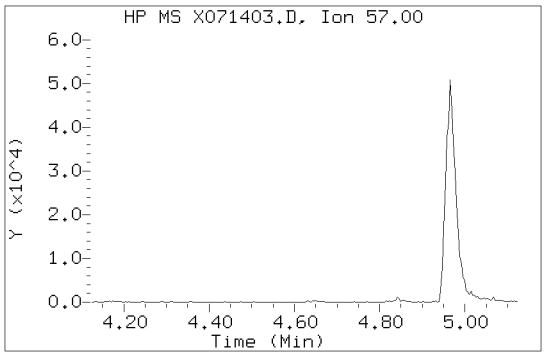

BEFORE
MASS
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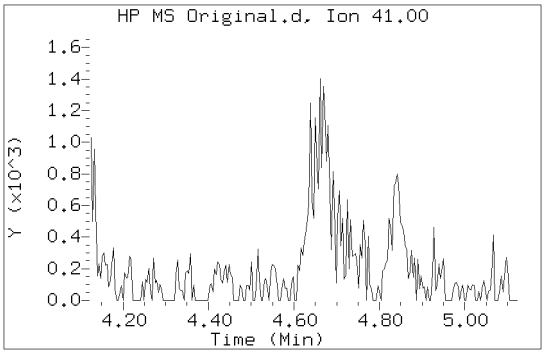
20-Jul-2023
15:04
linh
pham



AFTER
MASS
41
AREA
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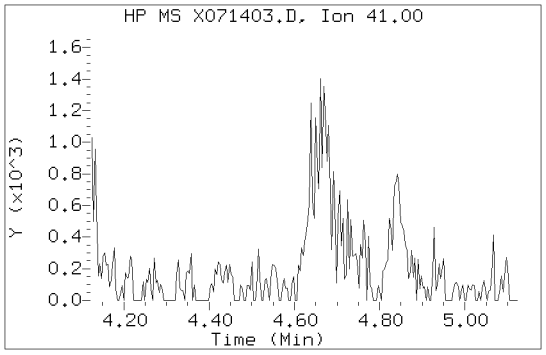
HEIGHT
0
20-Jul-2023
15:04
linh
pham



3,3-Dimethyl-1-butanol (624-95-3)

Reason Code:

BEFORE
MASS
57
AREA
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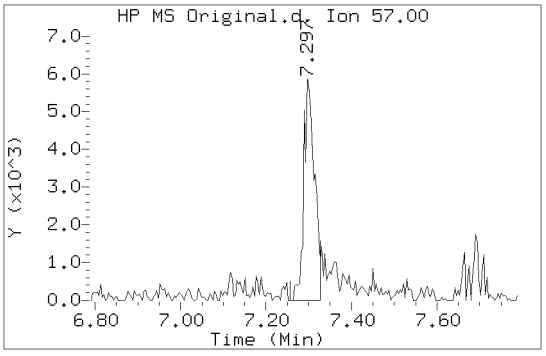
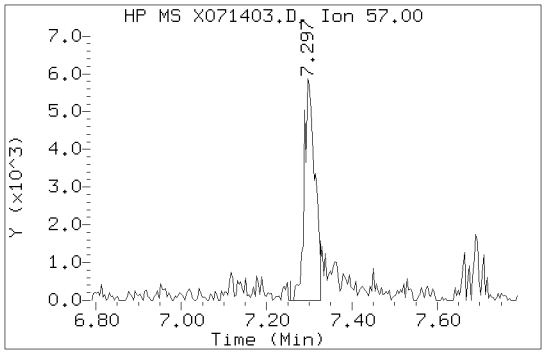
HEIGHT
5870
20-Jul-2023
15:04
linh
pham



AFTER
MASS
57
AREA
10397
HEIGHT
5870
20-Jul-2023
15:04
linh
pham



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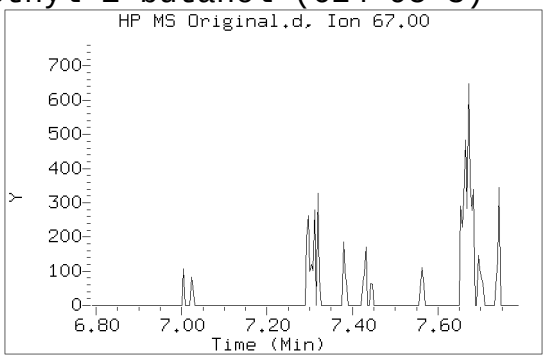
Inj Date : 14-JUL-2023 12:22
InstruID : voa6.i
LabSampID : VSTD000.5

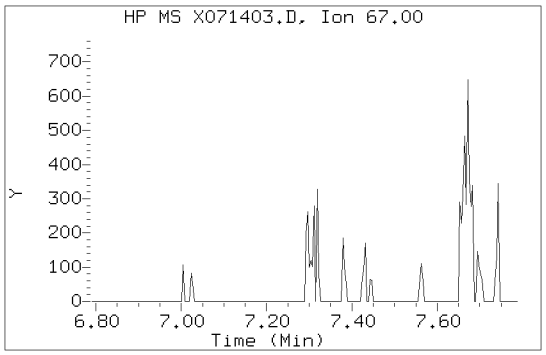
3,3-Dimethyl-1-butanol (624-95-3)

Reason Code:

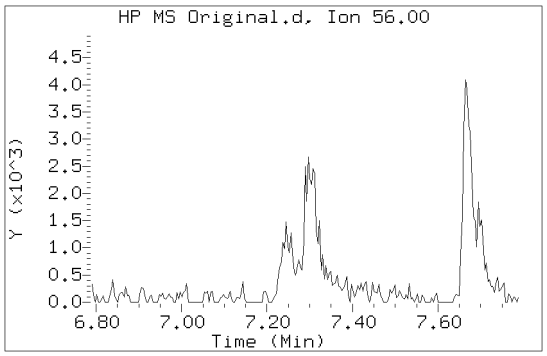
BEFORE
MASS
67
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham



AFTER
MASS
67
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham



BEFORE
MASS
56
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham



AFTER
MASS
56
AREA
0
HEIGHT
0
20-Jul-2023
15:04
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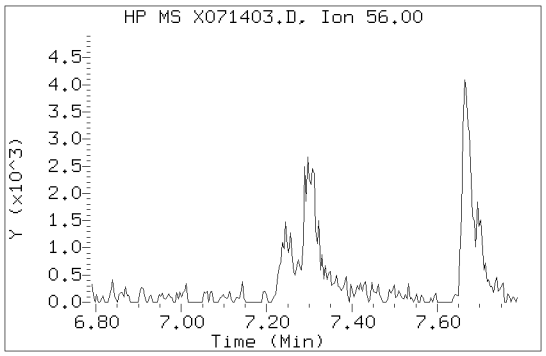
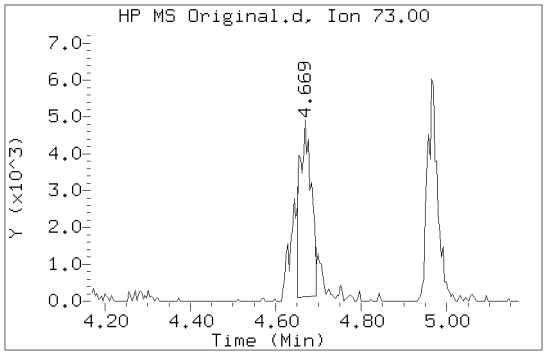
pham



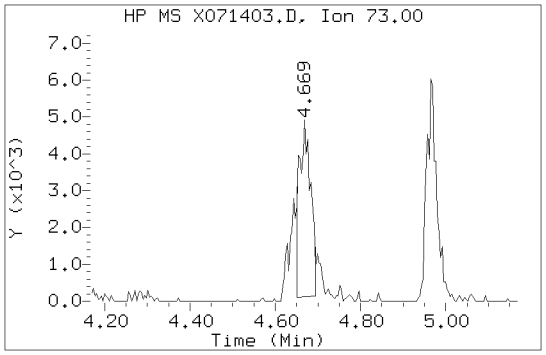
tert-Amyl methyl ether (974-05-08)

Reason Code:

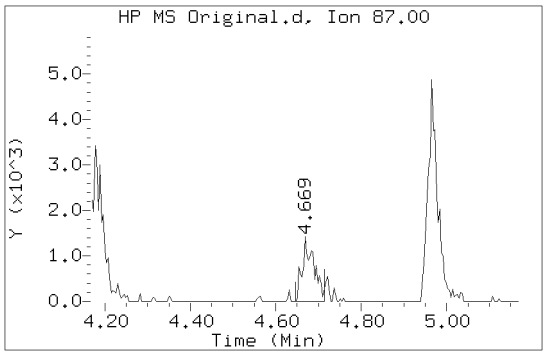
BEFORE
MASS
73
AREA
9377
HEIGHT
4800
20-Jul-2023
15:04
linh
pham



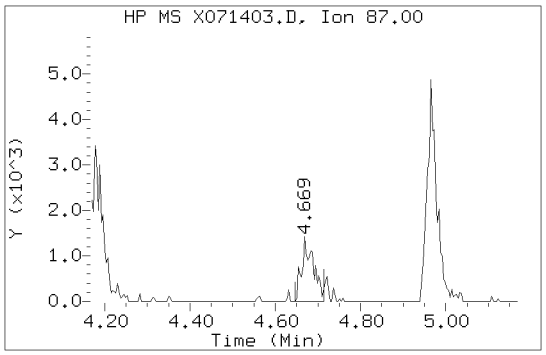
AFTER
MASS
73
AREA
9377
HEIGHT
4800
20-Jul-2023
15:04
linh
pham



BEFORE
MASS
87
AREA
2769
HEIGHT
1423
20-Jul-2023
15:04
linh
pham



AFTER
MASS
87
AREA
2769
HEIGHT
1423
20-Jul-2023
15:04
linh
pham



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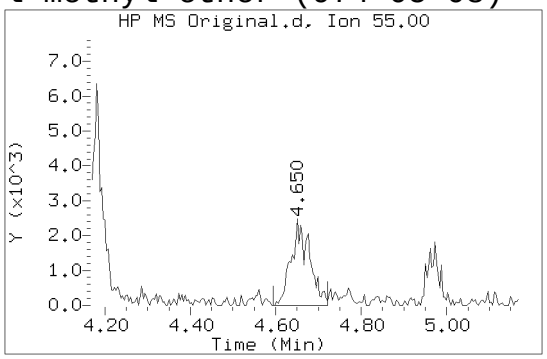
Inj Date : 14-JUL-2023 12:22
InstruID : voa6.i
LabSampID : VSTD000.5

tert-Amyl methyl ether (974-05-08)

Reason Code:

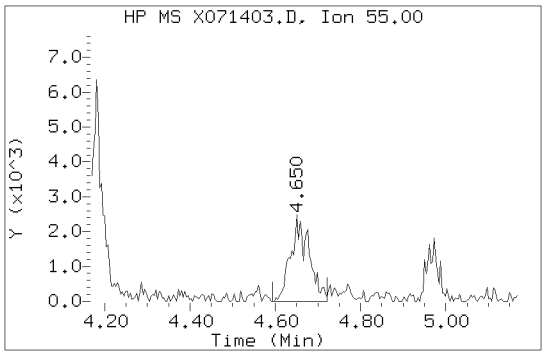
BEFORE

MASS
55
AREA
7426
HEIGHT
2483
20-Jul-2023
15:04
linh
pham



AFTER

MASS
55
AREA
7426
HEIGHT
2483
20-Jul-2023
15:04
linh
pham

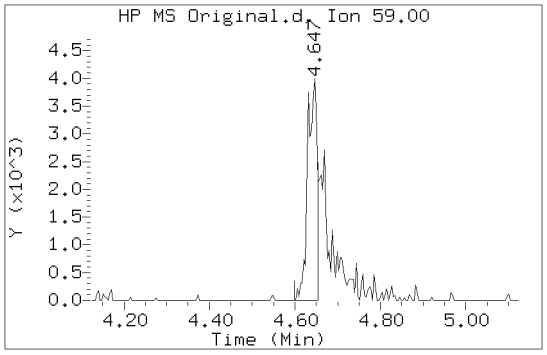


tert-Amyl alcohol (75-85-4)

Reason Code:

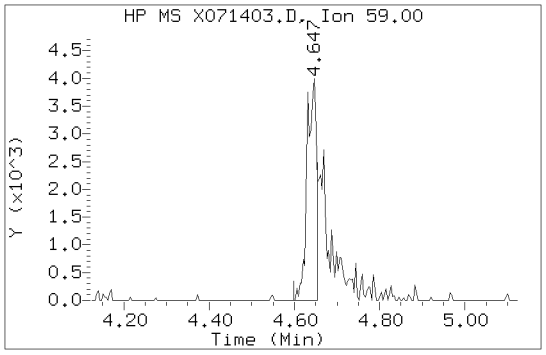
BEFORE

MASS
59
AREA
6083
HEIGHT
3995
20-Jul-2023
15:04
linh
pham



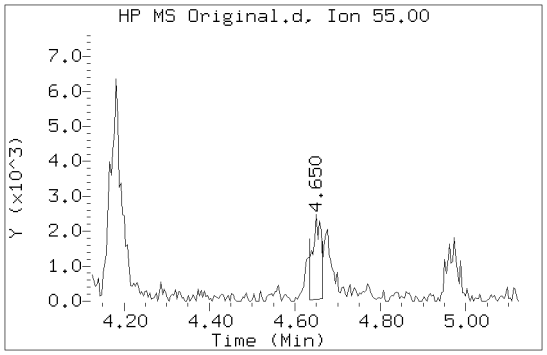
AFTER

MASS
59
AREA
6083
HEIGHT
3995
20-Jul-2023
15:04
linh
pham



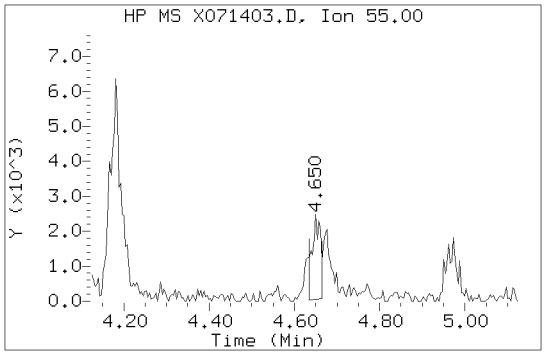
BEFORE

MASS
55
AREA
3364
HEIGHT
2424
20-Jul-2023
15:04
linh
pham



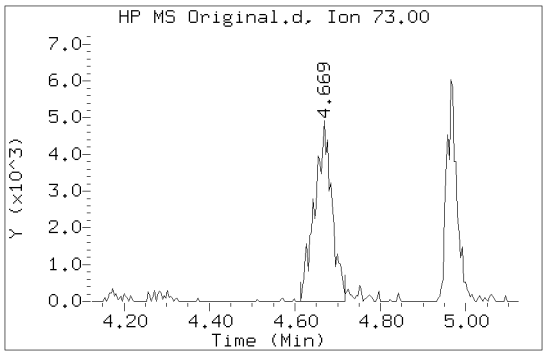
AFTER

MASS
55
AREA
3364
HEIGHT
2424
20-Jul-2023
15:04
linh
pham



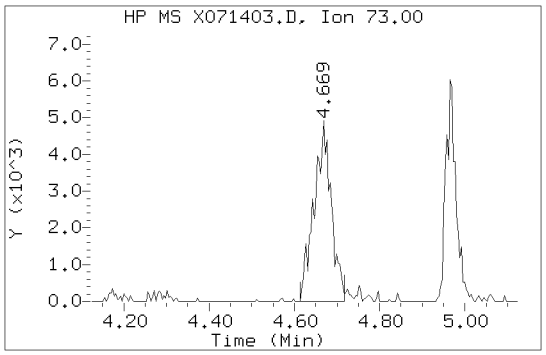
BEFORE

MASS
73
AREA
13761
HEIGHT
4914
20-Jul-2023
15:04
linh
pham



AFTER

MASS
73
AREA
13761
HEIGHT
4914
20-Jul-2023
15:04
linh
pham



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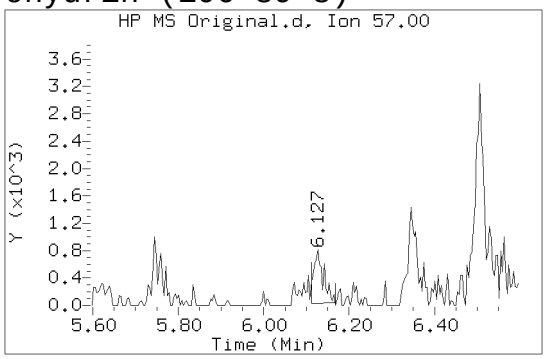
Inj Date : 14-JUL-2023 12:22
InstruID : voa6.i
LabSampID : VSTD000.5

Epichlorohydrin (106-89-8)

Reason Code:

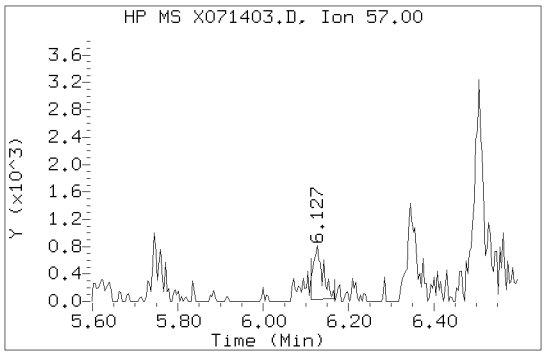
BEFORE

MASS
57
AREA
1233
HEIGHT
788
20-Jul-2023
15:04
linh
pham



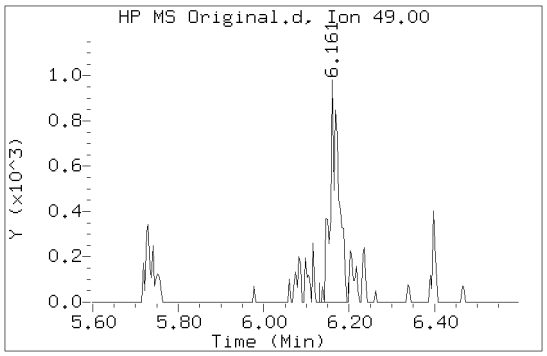
AFTER

MASS
57
AREA
1233
HEIGHT
788
20-Jul-2023
15:04
linh
pham



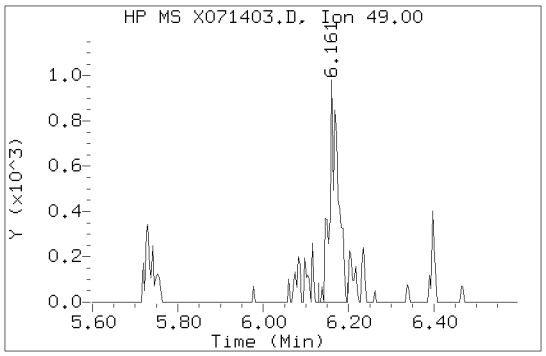
BEFORE

MASS
49
AREA
1383
HEIGHT
981
20-Jul-2023
15:04
linh
pham



AFTER

MASS
49
AREA
1383
HEIGHT
981
20-Jul-2023
15:04
linh
pham

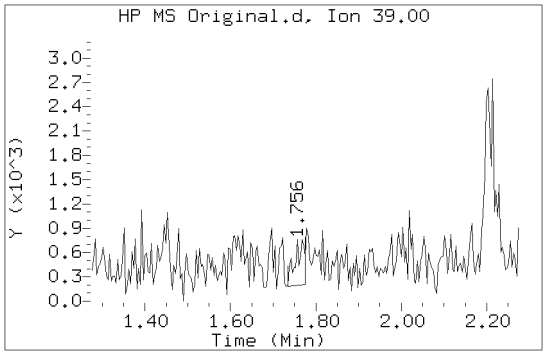


Isoprene (78-79-5)

Reason Code:

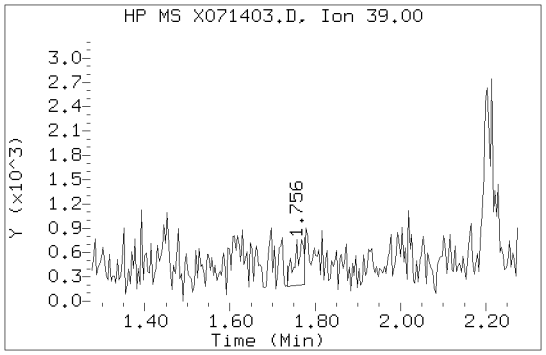
BEFORE

MASS
39
AREA
843
HEIGHT
570
20-Jul-2023
15:04
linh
pham



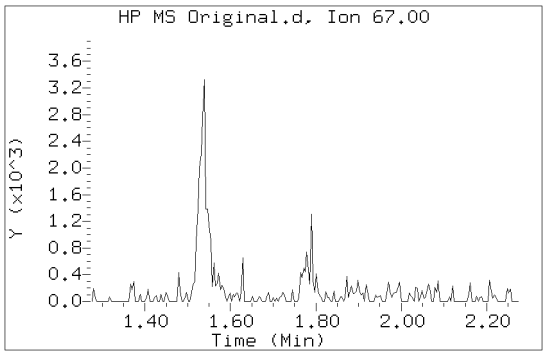
AFTER

MASS
39
AREA
843
HEIGHT
570
20-Jul-2023
15:04
linh
pham



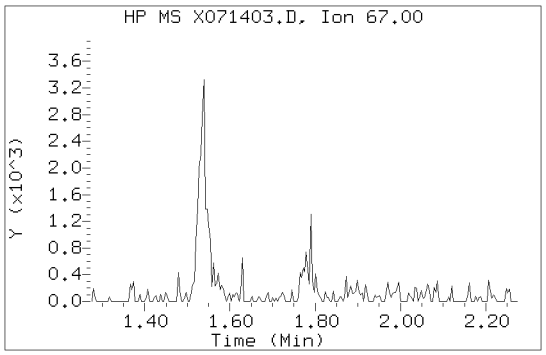
BEFORE

MASS
67
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham



AFTER

MASS
67
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham



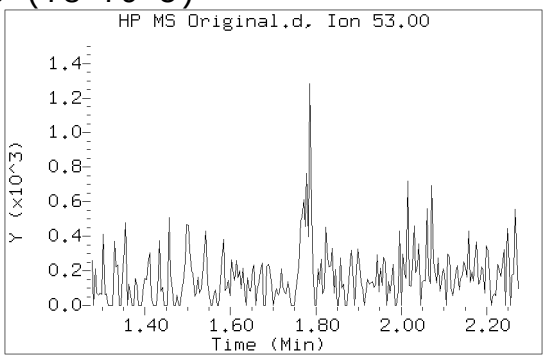
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230714.b\X071403.D
Inj Date : 14-JUL-2023 12:22
InstruID : voa6.i
LabSampID : VSTD000.5

Isoprene (78-79-5)

Reason Code:

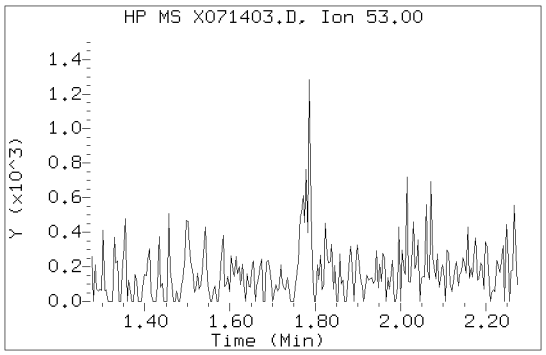
BEFORE

MASS
53
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham



AFTER

MASS
53
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham

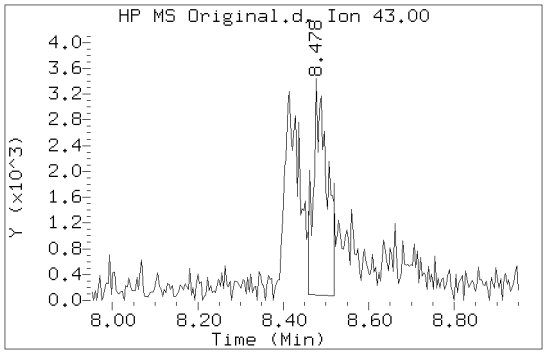


n-Amyl acetate (628-63-7)

Reason Code:

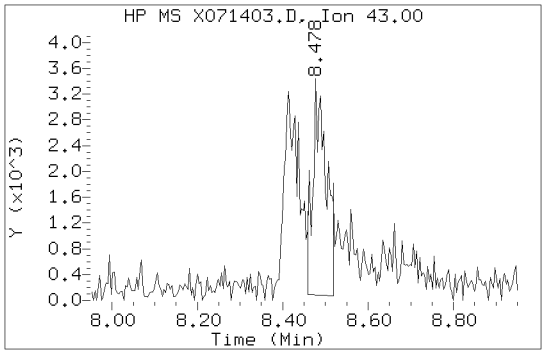
BEFORE

MASS
43
AREA
7447
HEIGHT
3352
20-Jul-2023
15:04
linh
pham



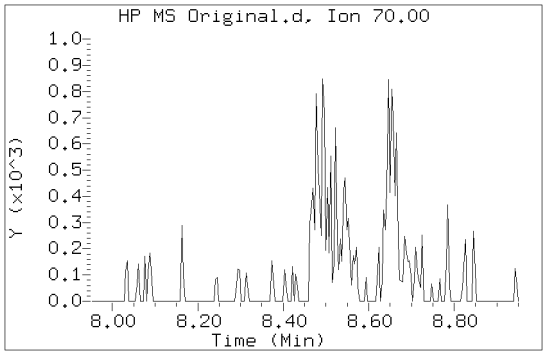
AFTER

MASS
43
AREA
7447
HEIGHT
3352
20-Jul-2023
15:04
linh
pham



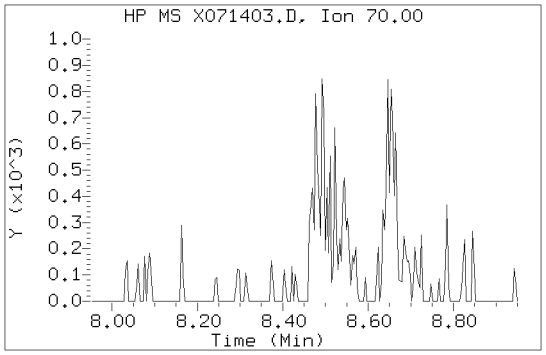
BEFORE

MASS
70
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham



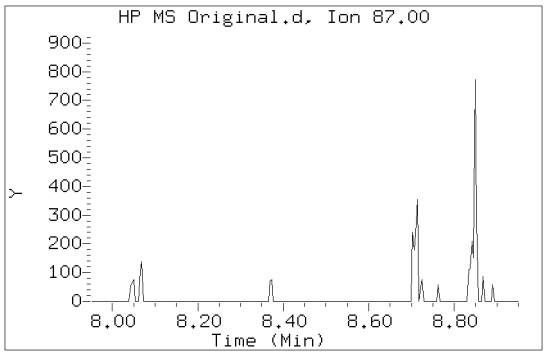
AFTER

MASS
70
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham



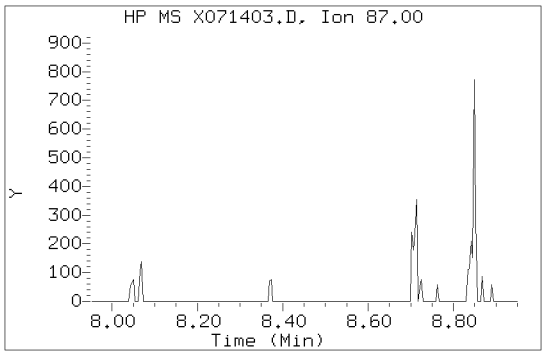
BEFORE

MASS
87
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham



AFTER

MASS
87
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham



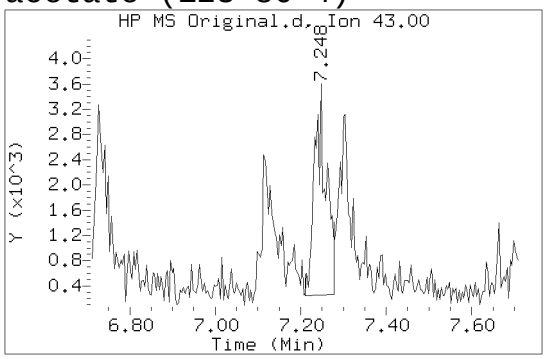
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230714.b\X071403.D
Inj Date : 14-JUL-2023 12:22
InstruID : voa6.i
LabSampID : VSTD000.5

n-Butyl acetate (123-86-4)

Reason Code:

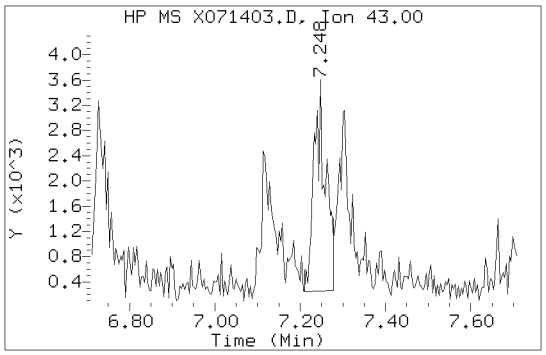
BEFORE

MASS
43
AREA
6398
HEIGHT
3352
20-Jul-2023
15:04
linh
pham



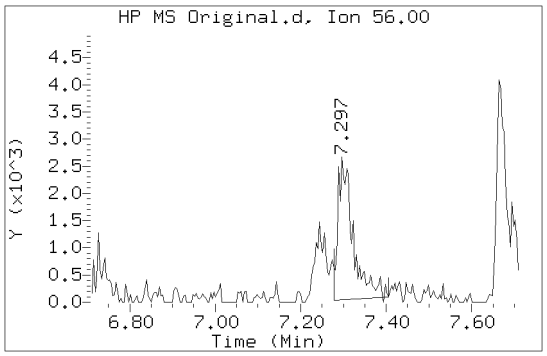
AFTER

MASS
43
AREA
6398
HEIGHT
3352
20-Jul-2023
15:04
linh
pham



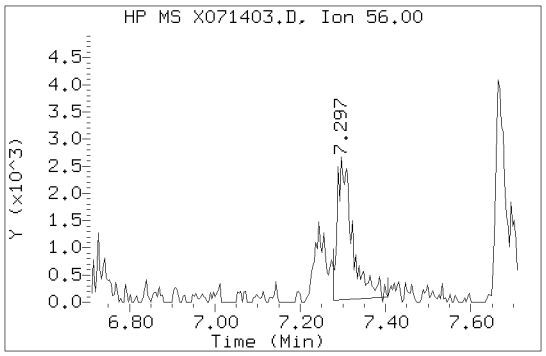
BEFORE

MASS
56
AREA
6426
HEIGHT
2636
20-Jul-2023
15:04
linh
pham



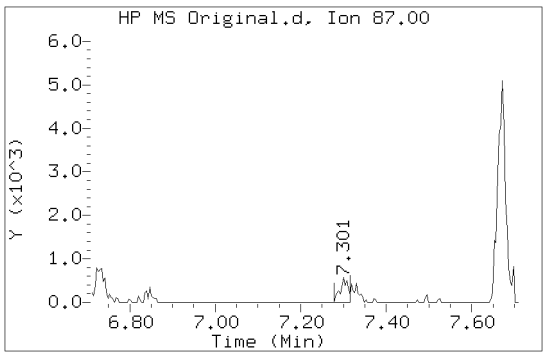
AFTER

MASS
56
AREA
6426
HEIGHT
2636
20-Jul-2023
15:04
linh
pham



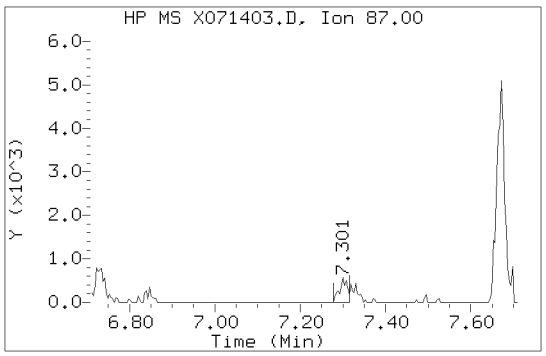
BEFORE

MASS
87
AREA
709
HEIGHT
572
20-Jul-2023
15:04
linh
pham



AFTER

MASS
87
AREA
709
HEIGHT
572
20-Jul-2023
15:04
linh
pham

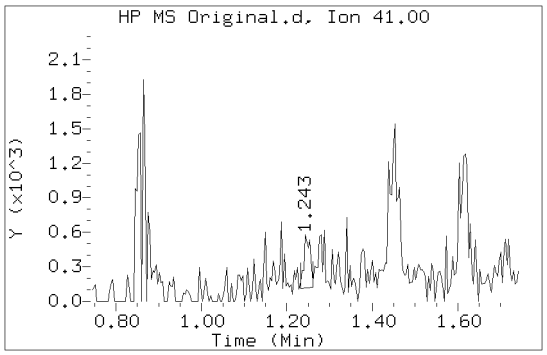


Isobutylene (115-11-7)

Reason Code:

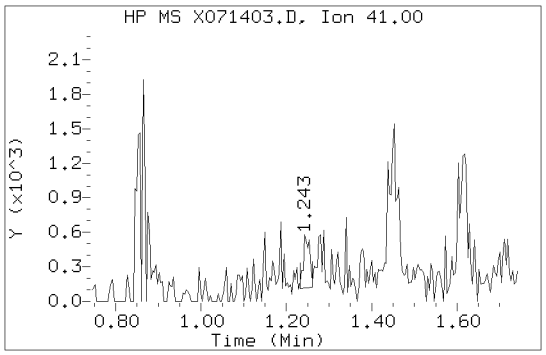
BEFORE

MASS
41
AREA
500
HEIGHT
462
20-Jul-2023
15:04
linh
pham



AFTER

MASS
41
AREA
500
HEIGHT
462
20-Jul-2023
15:04
linh
pham

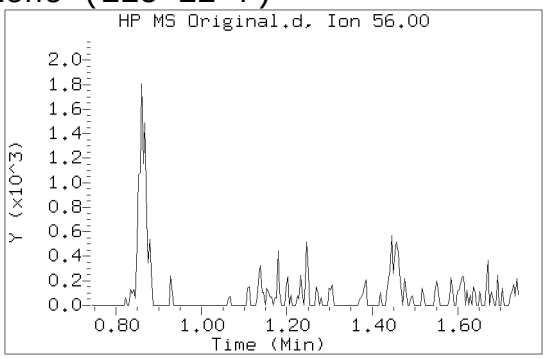


Data File : \\NAHSTWS005\Target\chem\voa6.i\X230714.b\X071403.D
Inj Date : 14-JUL-2023 12:22
InstruID : voa6.i
LabSampID : VSTD000.5

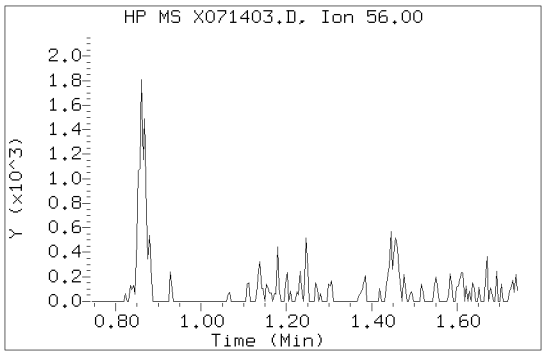
Isobutylene (115-11-7)

Reason Code:

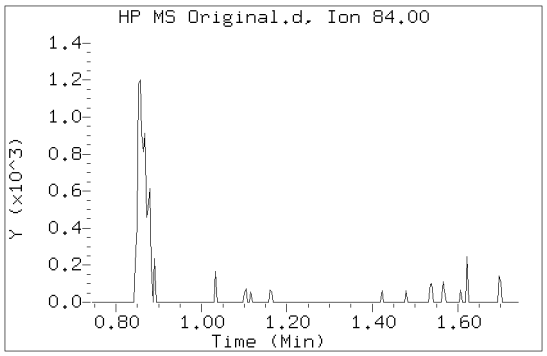
BEFORE
MASS
56
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham



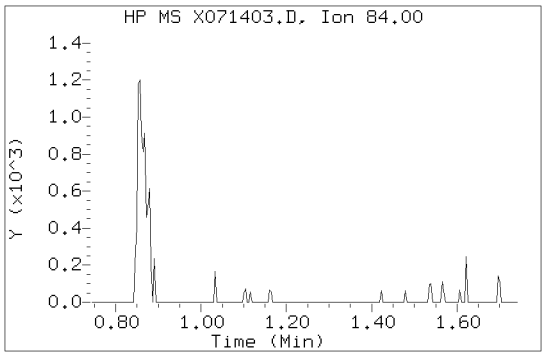
AFTER
MASS
56
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham



BEFORE
MASS
84
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham



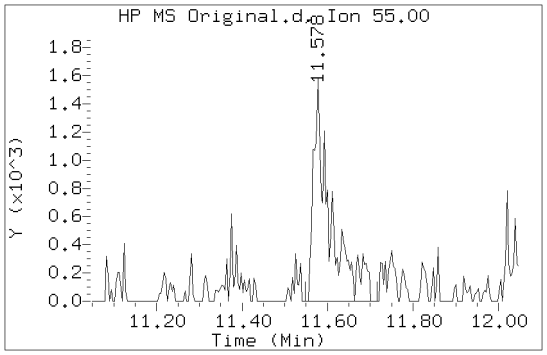
AFTER
MASS
84
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham



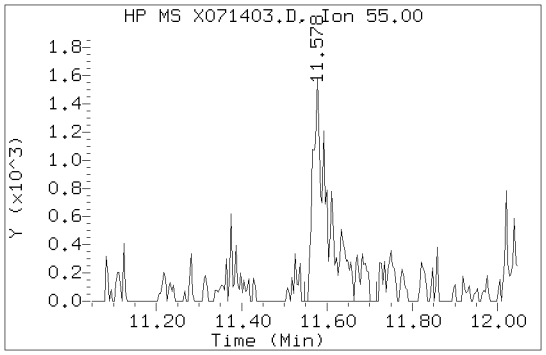
2-Ethylhexyl Acrylate (103-11-7)

Reason Code:

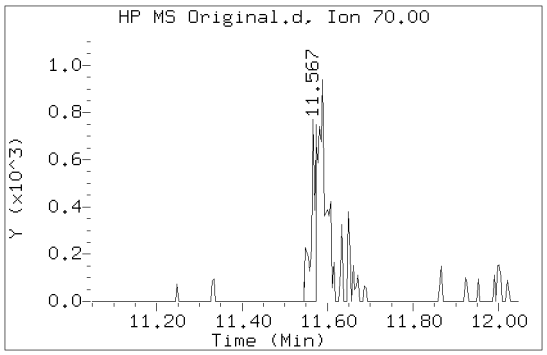
BEFORE
MASS
55
AREA
4236
HEIGHT
1577
20-Jul-2023
15:04
linh
pham



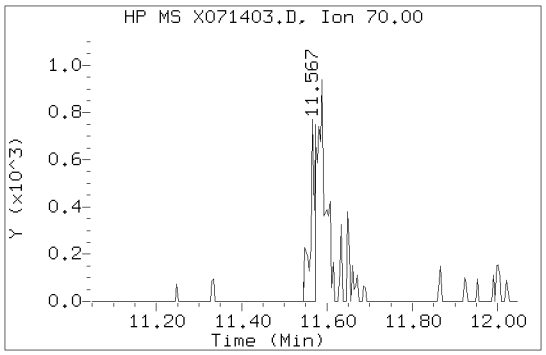
AFTER
MASS
55
AREA
4236
HEIGHT
1577
20-Jul-2023
15:04
linh
pham



BEFORE
MASS
70
AREA
631
HEIGHT
771
20-Jul-2023
15:04
linh
pham



AFTER
MASS
70
AREA
631
HEIGHT
771
20-Jul-2023
15:04
linh
pham



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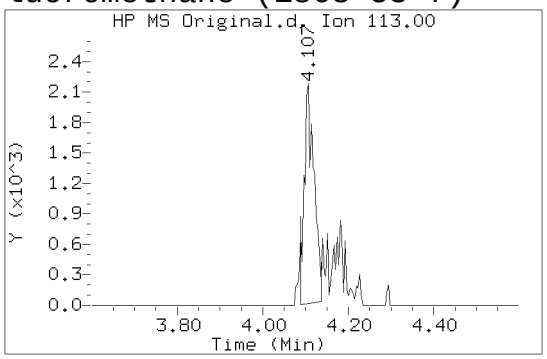
Inj Date : 14-JUL-2023 12:22
InstruID : voa6.i
LabSampID : VSTD000.5

Dibromofluoromethane (1868-53-7)

Reason Code:

BEFORE
MASS
113
AREA
3536
HEIGHT
2165
20-Jul-2023
15:04
linh
pham



AFTER
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113
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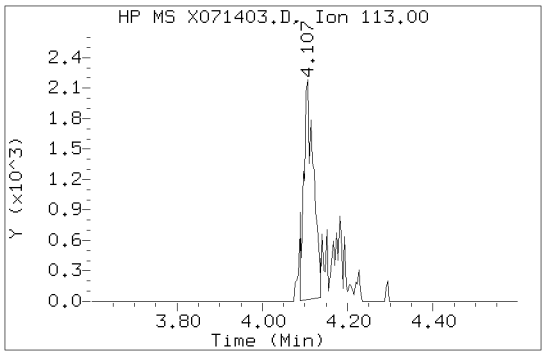

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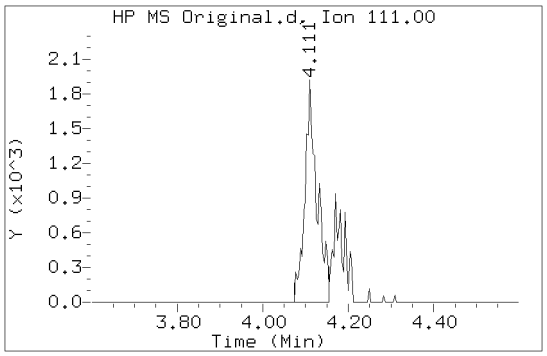

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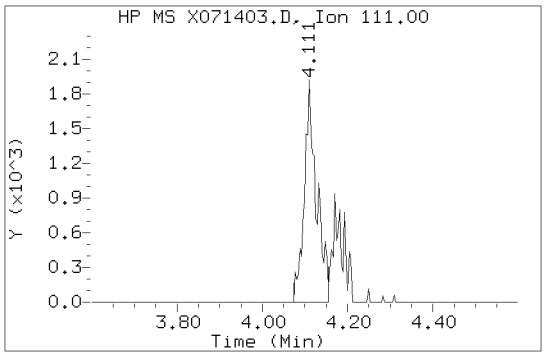

Toluene-d8 (2037-26-5)

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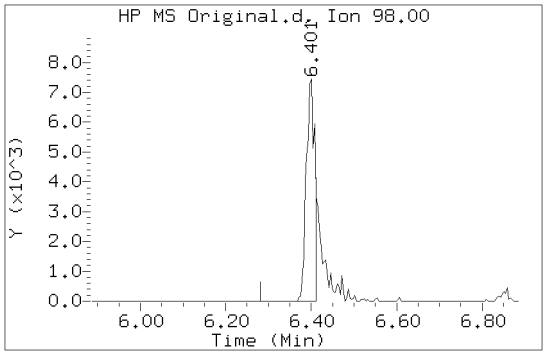

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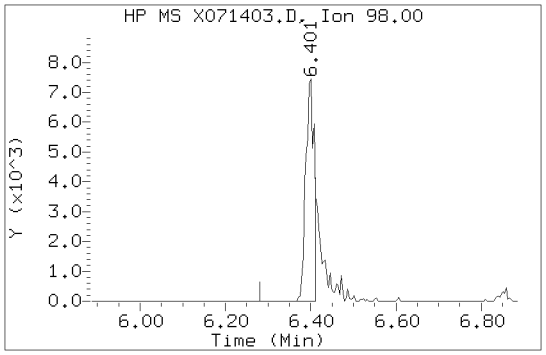

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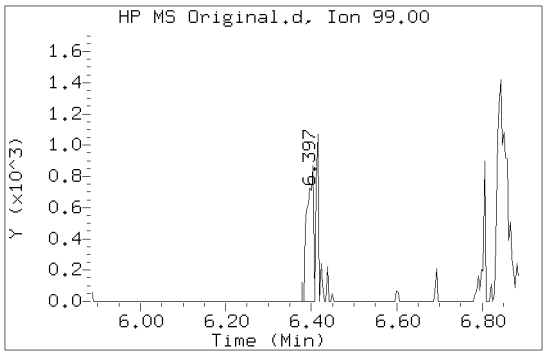

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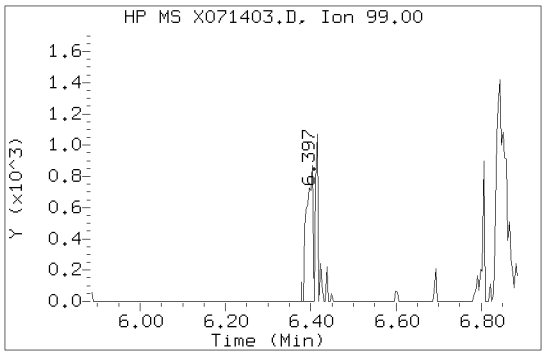

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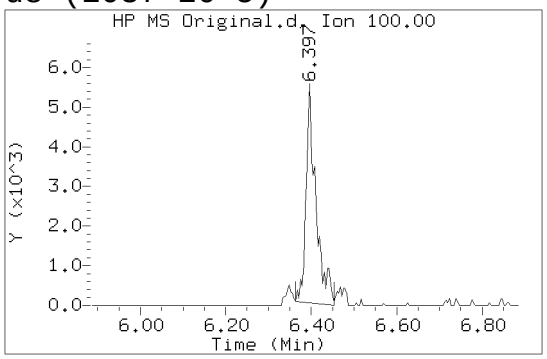

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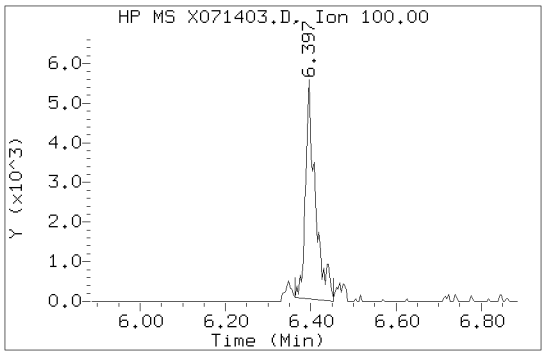

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Reason Code:

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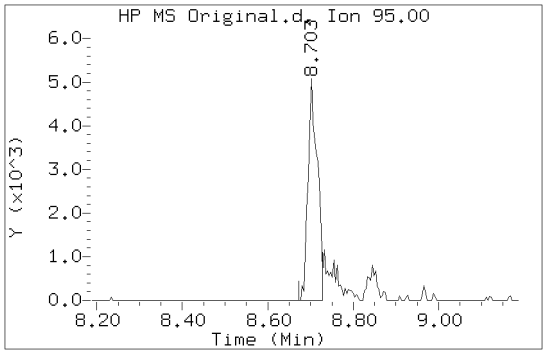

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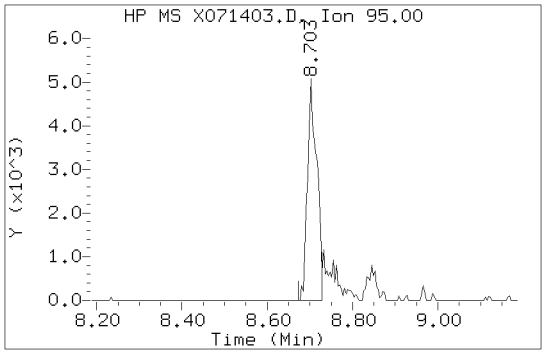

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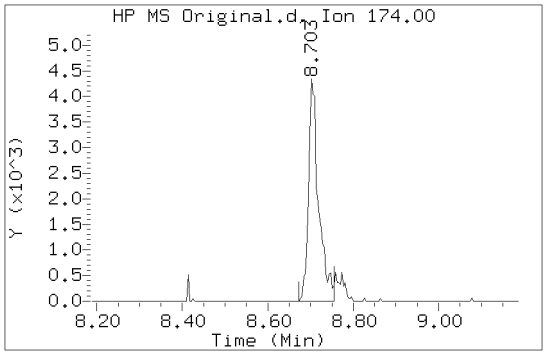

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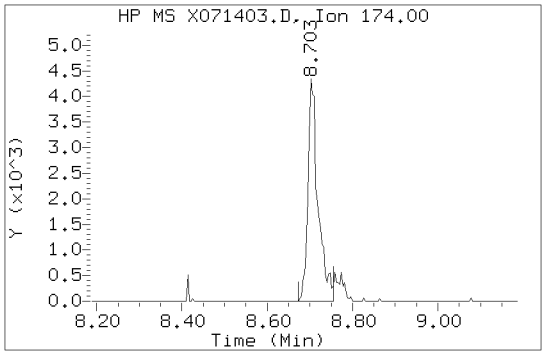

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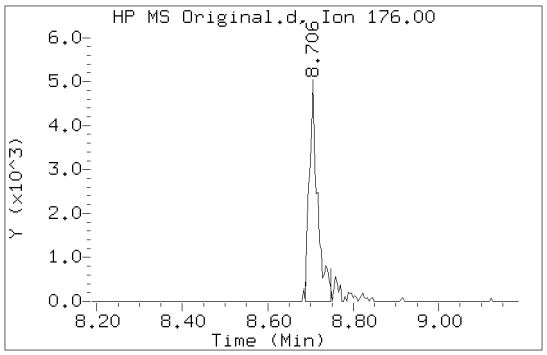

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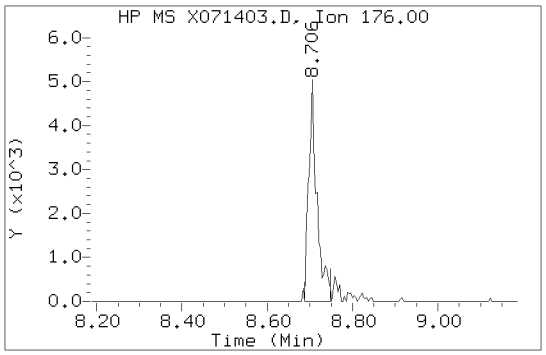

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Report Date: 20-Jul-2023 15:05

ALS Laboratory Group

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Inj Date : 14-JUL-2023 13:02
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Smp Info : VSTD001;VSTD001;1;3;
Misc Info : V6;WATER;0;1;
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Cal Date : 14-JUL-2023 12:22 Cal File: X071403.D
Als bottle: 5 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1	Pentafluorobenzene	168	4.178	4.178	(1.000)	527854	50.0000	
2	Dichlorodifluoromethane	85	0.976	0.976	(0.234)	3668	1.00000	1.76
3	Chloromethane	50	1.081	1.081	(0.259)	7000	1.00000	0.87
4	Propionitrile	54	3.690	3.690	(0.883)	10495	10.0000	10.03(aM)
5	Vinyl Chloride	62	1.149	1.149	(0.275)	5610	1.00000	0.82
6	Bromomethane	94	1.344	1.344	(0.322)	2584	1.00000	0.91
7	Chloroethane	64	1.407	1.407	(0.337)	3779	1.00000	0.96
8	Trichlorofluoromethane	101	1.561	1.561	(0.374)	5888	1.00000	0.85(M)
9	Acrolein	56	1.861	1.861	(0.446)	510	2.00000	3.65(aM)
11	1,1-Dichloroethene	96	1.913	1.913	(0.458)	3525	1.00000	0.91(M)
12	Isobutyl Alcohol	43	4.687	4.687	(1.122)	16938	20.0000	16.92(aM)
13	Acetonitrile	39	2.198	2.198	(0.526)	7835	10.0000	10.58(a)
14	Allyl Chloride	41	2.202	2.202	(0.527)	19290	1.00000	1.11(a)
15	Iodomethane	142	2.030	2.030	(0.486)	4792	2.00000	4.73(M)
16	Acrylonitrile	53	2.551	2.551	(0.611)	4763	2.00000	1.85(M)
18	Methyl tert-butyl ether	73	2.543	2.543	(0.609)	15895	1.00000	1.10
19	Carbon Disulfide	76	2.071	2.071	(0.496)	21621	2.00000	1.77
20	trans-1,2-Dichloroethene	96	2.536	2.536	(0.607)	3665	1.00000	0.81
21	Vinyl Acetate	43	3.015	3.015	(0.722)	36157	2.00000	1.95
22	1,1-Dichloroethane	63	2.929	2.929	(0.701)	9261	1.00000	0.94

23 Chloroprene	53	1.786	1.786 (0.428)	2402	1.00000	1.01(aM)
24 2-Butanone	43	3.686	3.686 (0.882)	5549	2.00000	1.97(M)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	25 Methacrylonitrile	41	3.874	3.874	(0.927)	6195	1.00000	0.90(aM)
	26 2,2-Dichloropropane	77	3.518	3.518	(0.842)	7001	1.00000	1.12(M)
	27 cis-1,2-Dichloroethene	96	3.540	3.540	(0.847)	5828	1.00000	1.02(M)
	28 Chloroform	83	3.915	3.915	(0.937)	10007	1.00000	0.99
	29 Bromochloromethane	128	3.799	3.799	(0.909)	3002	1.00000	0.94(M)
	31 1,1,1-Trichloroethane	97	4.084	4.084	(0.978)	6398	1.00000	0.82(M)
	32 1,1-Dichloropropene	75	4.286	4.286	(0.863)	6097	1.00000	0.91(M)
	33 1,2-Dichloroethane	62	4.564	4.564	(0.919)	9069	1.00000	1.01
	34 Carbon Tetrachloride	117	4.264	4.264	(0.859)	7002	1.00000	1.04(M)
$	35 1,2-Dichloroethane-d4	65	4.485	4.485	(1.074)	7805	1.00000	0.68
*	36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	814886	50.0000	
	37 Benzene	78	4.515	4.515	(0.909)	18433	1.00000	0.94
	38 Trichloroethene	130	5.212	5.212	(1.050)	4751	1.00000	0.86(a)
	39 Bromodichloromethane	83	5.730	5.730	(1.154)	6967	1.00000	0.93(aM)
	40 Methyl Methacrylate	41	5.628	5.628	(1.347)	7110	1.00000	1.11(a)
	41 2-Chloroethylvinyl ether	63	6.071	6.071	(1.223)	4176	2.00000	1.83(aM)
	42 1,2-Dichloropropane	63	5.441	5.441	(1.096)	5153	1.00000	0.82(aM)
	43 2-Nitropropane	43	5.992	5.992	(1.434)	2054	1.00000	0.97(aM)
	44 Dibromomethane	93	5.557	5.557	(1.119)	3511	1.00000	0.98(a)
	45 4-Methyl-2-Pentanone	43	6.337	6.337	(0.826)	14106	2.00000	1.87(aM)
	46 cis-1,3-Dichloropropene	75	6.168	6.168	(1.242)	7361	1.00000	0.85(a)
*	47 Chlorobenzene-d5	117	7.668	7.668	(1.000)	765384	50.0000	
$	48 Toluene-d8	98	6.397	6.397	(0.834)	21847	1.00000	1.10(aM)
	49 Ethyl Methacrylate	69	6.730	6.730	(1.356)	5749	1.00000	1.07(aM)
	50 Toluene	91	6.453	6.453	(0.842)	17466	1.00000	0.84(a)
	51 trans-1,3-Dichloropropene	75	6.693	6.693	(1.348)	6303	1.00000	0.87(a)
	52 2-Hexanone	43	7.113	7.113	(0.928)	10319	2.00000	2.08(aM)
	53 1,1,2-Trichloroethane	83	6.843	6.843	(0.892)	4429	1.00000	1.01(a)
	54 1,3-Dichloropropane	76	6.985	6.985	(0.911)	8584	1.00000	0.96(a)
	55 Dibromochloromethane	129	7.180	7.180	(0.936)	6003	1.00000	0.95(a)
	56 Tetrachloroethene	164	6.929	6.929	(0.904)	3431	1.00000	0.80(aM)
	57 1,2-Dibromoethane	107	7.270	7.270	(0.948)	4879	1.00000	0.97(a)
	58 1-Chlorohexane	55	7.705	7.705	(1.552)	6663	1.00000	1.01(aM)
	59 Chlorobenzene	112	7.698	7.698	(1.004)	13305	1.00000	0.92(a)
	60 1,1,1,2-Tetrachloroethane	131	7.776	7.776	(1.014)	5021	1.00000	0.89(a)
	61 Ethylbenzene	106	7.806	7.806	(1.018)	6243	1.00000	0.86(a)
	62 m,p-Xylenes	106	7.915	7.915	(1.032)	15703	2.00000	1.73(aM)
	63 o-Xylene	106	8.249	8.249	(1.076)	7717	1.00000	0.89(a)
	64 Styrene	104	8.271	8.271	(1.079)	13315	1.00000	0.88(aM)
	66 Bromoform	173	8.421	8.421	(1.098)	3238	1.00000	0.79(TaM)
	67 Isopropylbenzene	105	8.567	8.567	(1.117)	17710	1.00000	0.80(a)
	68 1,1,2,2-Tetrachloroethane	83	8.841	8.841	(0.915)	6483	1.00000	0.99(a)
$	69 4-Bromofluorobenzene	95	8.702	8.702	(1.135)	11517	1.00000	1.09(aM)
*	70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	389630	50.0000	
	71 1,2,3-Trichloropropane	75	8.871	8.871	(0.918)	5203	1.00000	1.00(aM)
	72 trans-1,4-Dichloro-2-butene	53	8.912	8.912	(1.162)	1951	1.00000	0.83(aM)
	73 n-Propylbenzene	91	8.920	8.920	(0.923)	19793	1.00000	0.84(a)
	74 Bromobenzene	156	8.815	8.815	(0.912)	5922	1.00000	0.97(a)
	75 1,3,5-Trimethylbenzene	105	9.077	9.077	(0.939)	14649	1.00000	0.83(aM)
	76 2-Chlorotoluene	91	8.980	8.980	(0.929)	15937	1.00000	1.00(aM)
	77 4-Chlorotoluene	91	9.085	9.085	(0.940)	14190	1.00000	0.81(a)
	78 tert-Butylbenzene	119	9.339	9.339	(0.967)	12560	1.00000	0.83(a)

79 1,2,4-Trimethylbenzene	105	9.388	9.388 (0.972)	14383	1.00000	0.81(a)
81 sec-Butylbenzene	105	9.519	9.519 (0.985)	16259	1.00000	0.80(a)

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230714.b\X071404.D Page 3
Report Date: 20-Jul-2023 15:05

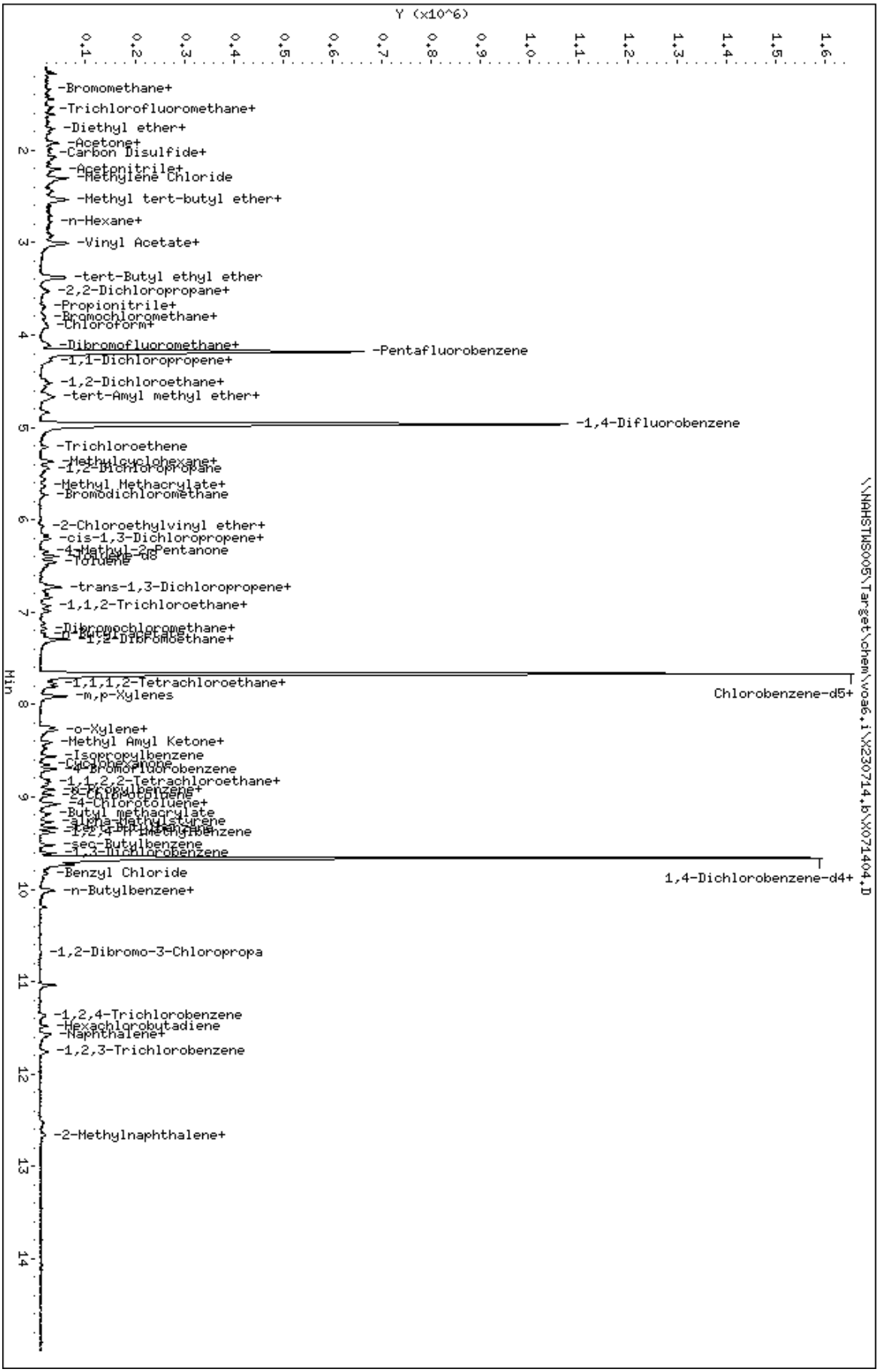
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
82	p-Isopropyltoluene	119	9.651	9.651	(0.999)	15092	1.00000	0.81(aM)
83	1,3-Dichlorobenzene	146	9.609	9.609	(0.995)	9170	1.00000	0.86(a)
84	1,4-Dichlorobenzene	146	9.684	9.684	(1.002)	10311	1.00000	0.88(a)
86	Benzyl Chloride	91	9.827	9.827	(1.282)	10259	1.00000	3.09(aM)
87	n-Butylbenzene	91	10.014	10.014	(1.036)	13321	1.00000	0.86(aM)
88	1,2-Dichlorobenzene	146	10.003	10.003	(1.035)	9791	1.00000	0.93(aM)
89	1,2-Dibromo-3-Chloropropane	155	10.700	10.700	(1.107)	831	1.00000	1.84(aM)
90	1,2,4-Trichlorobenzene	180	11.364	11.364	(1.176)	7113	1.00000	0.99(aM)
91	Hexachlorobutadiene	225	11.480	11.480	(1.188)	2109	1.00000	2.96(a)
92	Naphthalene	128	11.574	11.574	(1.198)	18131	1.00000	1.02(aM)
93	1,2,3-Trichlorobenzene	180	11.765	11.765	(1.218)	6973	1.00000	1.04(a)
146	Methyl acetate	43	2.243	2.243	(0.537)	4992	1.00000	1.06(aM)
138	Freon TF	101	1.917	1.917	(0.459)	2818	1.00000	0.25(aM)
141	Cyclohexane	56	4.121	4.121	(0.987)	7673	1.00000	0.83(aM)
142	Tetrahydrofuran	42	3.874	3.874	(0.927)	2815	2.00000	2.07(aM)
147	Methylcyclohexane	55	5.370	5.370	(1.082)	15783	1.00000	0.91(aM)
135	1,4-Dioxane	88	5.613	5.613	(1.344)	1290	20.0000	20.56(M)
132	n-Butanol	56	5.370	5.370	(1.285)	3103	20.0000	17.65(aM)
131	Methyl Acrylate	55	3.750	3.750	(0.898)	5778	1.00000	0.80(aM)
133	Ethyl Acrylate	55	5.370	5.370	(1.285)	18196	1.00000	1.04(M)
136	n-Hexane	57	2.776	2.776	(0.664)	5000	1.00000	0.27(aM)
139	Diethyl ether	59	1.767	1.767	(0.423)	5211	1.00000	1.05(a)
148	Tert-butyl alcohol	59	2.442	2.442	(0.585)	12965	20.0000	19.46(M)
149	Isopropyl alcohol	45	2.097	2.097	(0.502)	9372	20.0000	22.67(TM)
156	Diisopropyl ether	45	3.012	3.012	(0.721)	24757	1.00000	1.13(Ta)
166	1,2,3-Trimethylbenzene	105	9.733	9.733	(1.007)	19017	1.00000	1.05(a)
167	Ethanol	45	1.703	1.703	(0.408)	1613	20.0000	3.59(aM)
172	tert-Butyl formate	59	4.639	4.639	(1.110)	11427	2.00000	2.02(aM)
173	3,3-Dimethyl-1-butanol	57	7.293	7.293	(0.951)	16922	20.0000	20.55(M)
174	tert-Amyl methyl ether	73	4.669	4.669	(1.118)	19717	1.00000	1.13(a)
175	tert-Butyl ethyl ether	59	3.387	3.387	(0.811)	23746	1.00000	1.06(a)
176	tert-Amyl alcohol	59	4.639	4.639	(1.110)	10855	20.0000	18.82
151	4-Methyl-2-pentanol	45	6.727	6.727	(1.355)	35175	20.0000	20.14(M)
180	1-Methylnaphthalene	142	12.657	12.657	(1.310)	6480	1.00000	(a)
140	1,3-Butadiene	54	1.167	1.167	(0.280)	6040	1.00000	0.89(aM)
152	Amyl alcohol	42	6.989	6.989	(0.912)	3944	20.0000	17.91(M)
158	Dichlorofluoromethane	67	1.531	1.531	(0.367)	9743	1.00000	1.14(M)
159	Propylene oxide	43	1.805	1.805	(0.432)	1409	2.00000	2.17(aM)
161	3-Methyl-1-butanol	55	6.944	6.944	(0.906)	3623	20.0000	19.22(M)
162	Butyl acrylate	55	8.279	8.279	(1.080)	13586	1.00000	0.93(a)
163	Butyl methacrylate	41	9.178	9.178	(0.950)	9406	1.00000	1.00(a)
164	Dicyclopentadiene	66	9.677	9.677	(1.002)	24319	1.00000	1.08(aM)
182	Epichlorohydrin	57	6.119	6.119	(1.233)	2383	4.00000	3.91(aM)
M 94	1,2-Dichloroethylene (total)	96				9493	2.00000	(a)
130	Ethyl Acetate	43	3.713	3.713	(0.889)	7207	1.00000	0.91(TaM)
134	Cyclohexanone	55	8.646	8.646	(0.895)	7972	20.0000	22.98(aM)
185	Isoprene	39	1.778	1.778	(0.426)	1515	1.00000	0.87(a)
188	Isopropyl acetate	43	4.687	4.687	(0.944)	23748	1.00000	1.10(a)
187	n-Amyl acetate	43	8.474	8.474	(1.105)	15950	1.00000	1.13(aM)
189	n-Butyl acetate	43	7.233	7.233	(0.943)	9795	1.00000	0.83(aM)
150	Allyl alcohol	57	2.776	2.776	(0.664)	5000	20.0000	3.31(aM)
194	Acetaldehyde	44	1.216	1.216	(0.291)	5117	4.00000	(aM)

195 Methyl Amyl Ketone	43	8.406	8.406 (1.096)	14469	1.00000	0.90(a)
200 Dimethyl Disulfide	94	6.202	6.202 (0.809)	9361	1.00000	0.90(a)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
202 Isobutylene	41	1.246	1.246	(0.298)	875	1.00000	1.00(aM)
205 2-Ethylhexyl Acrylate	55	11.562	11.562	(1.197)	8780	1.00000	0.88(aM)

QC Flag Legend

T - Target compound detected outside RT window.
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.



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Client ID: VSTD001
Sample Info: VSTD001;VSTD001;1;3;
Purge Volume: 5.0
Column phase: DB624

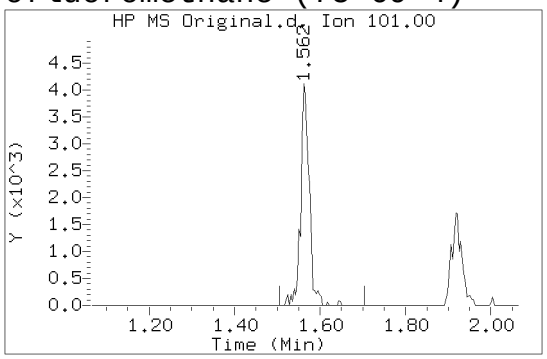
Instrument: voa6.i
Operator: PC
Column diameter: 0.18

Data File : \\NAHSTWS005\Target\chem\voa6.i\X230714.b\X071404.D
Inj Date : 14-JUL-2023 13:02
InstruID : voa6.i
LabSampID : VSTD001

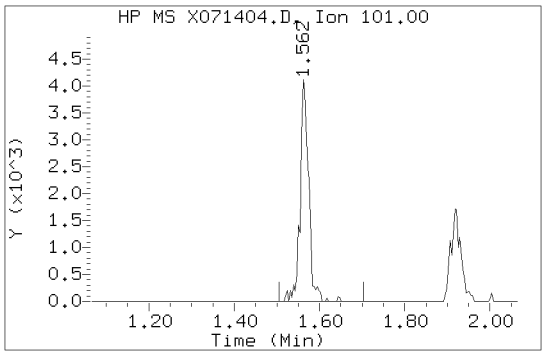
Trichlorofluoromethane (75-69-4)

Reason Code:

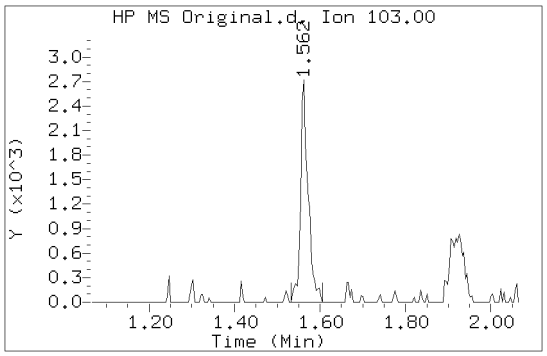
BEFORE
MASS
101
AREA
5888
HEIGHT
4116
20-Jul-2023
15:04
linh
pham



AFTER
MASS
101
AREA
5888
HEIGHT
4116
20-Jul-2023
15:04
linh
pham



BEFORE
MASS
103
AREA
3435
HEIGHT
2720
20-Jul-2023
15:04
linh
pham



AFTER
MASS
103
AREA
3435
HEIGHT
2720
20-Jul-2023
15:04
linh
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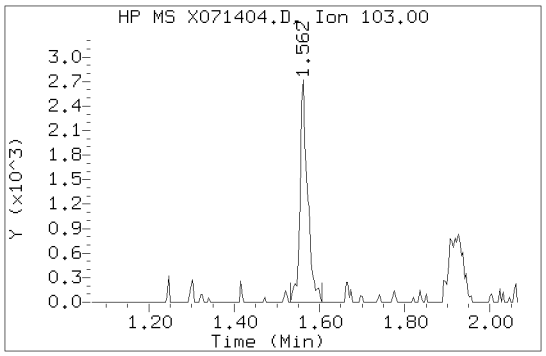
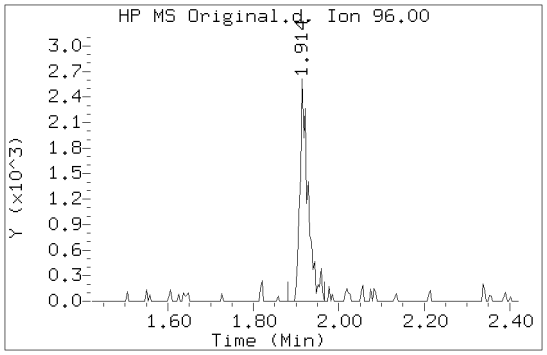


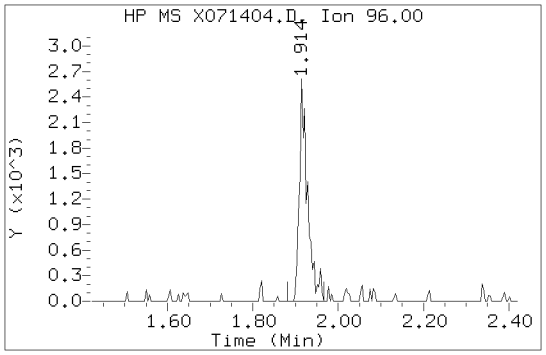
1,1-Dichloroethene (75-35-4)

Reason Code:

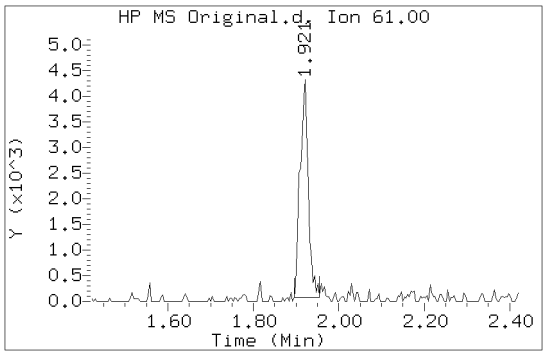
BEFORE
MASS
96
AREA
3525
HEIGHT
2613
20-Jul-2023
15:04
linh
pham



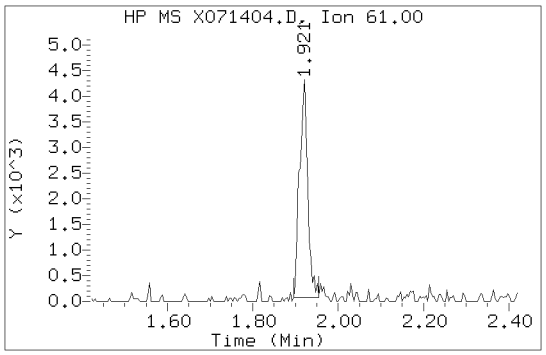
AFTER
MASS
96
AREA
3525
HEIGHT
2613
20-Jul-2023
15:04
linh
pham



BEFORE
MASS
61
AREA
5846
HEIGHT
4244
20-Jul-2023
15:04
linh
pham



AFTER
MASS
61
AREA
5846
HEIGHT
4244
20-Jul-2023
15:04
linh
pham



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Inj Date : 14-JUL-2023 13:02
InstruID : voa6.i
LabSampID : VSTD001

1,1-Dichloroethene (75-35-4)

Reason Code:

BEFORE

MASS
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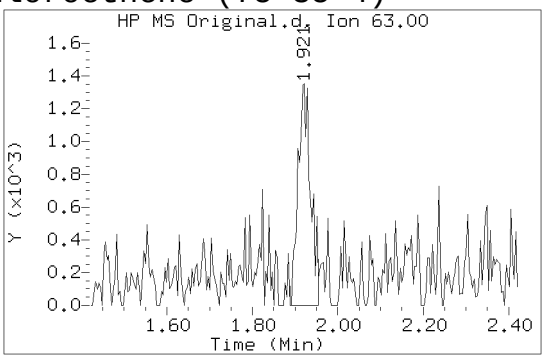
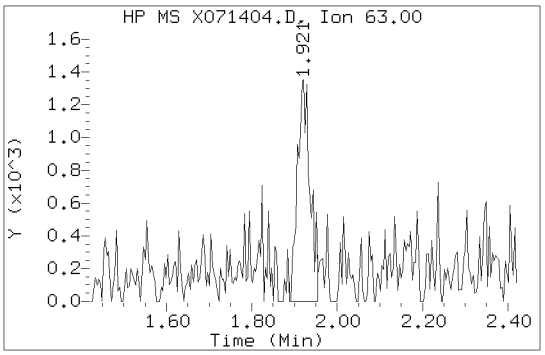
AREA
2823
HEIGHT
1353
20-Jul-2023
15:04
linh
pham



AFTER

MASS
63
AREA
2823
HEIGHT
1353
20-Jul-2023
15:04
linh
pham

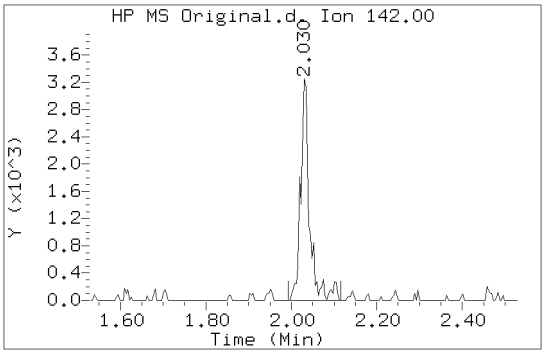


Iodomethane (74-88-4)

Reason Code:

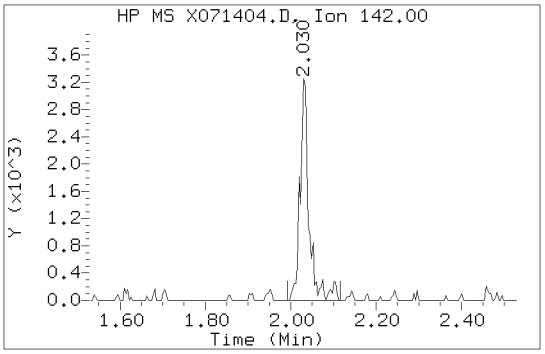
BEFORE

MASS
142
AREA
4792
HEIGHT
3253
20-Jul-2023
15:04
linh
pham



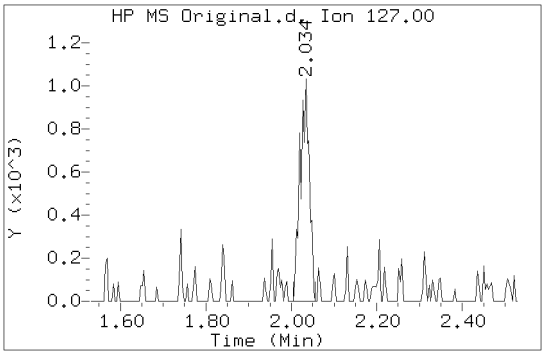
AFTER

MASS
142
AREA
4792
HEIGHT
3253
20-Jul-2023
15:04
linh
pham



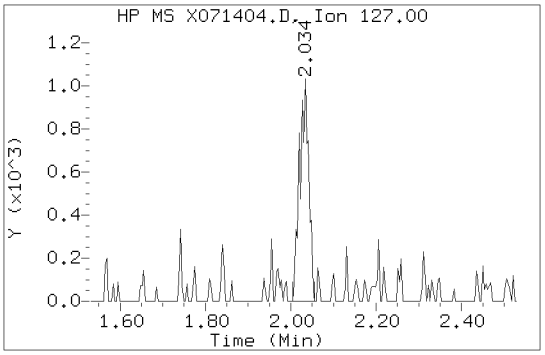
BEFORE

MASS
127
AREA
1562
HEIGHT
1033
20-Jul-2023
15:04
linh
pham



AFTER

MASS
127
AREA
1562
HEIGHT
1033
20-Jul-2023
15:04
linh
pham



BEFORE

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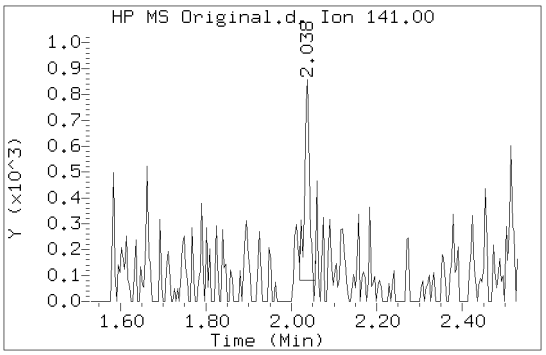
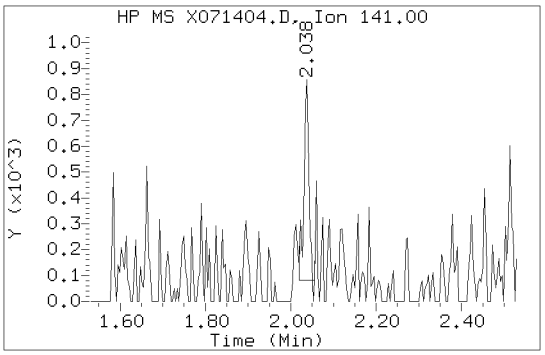
141
AREA
645
HEIGHT
775
20-Jul-2023
15:04
linh
pham



AFTER

MASS
141
AREA
645
HEIGHT
775
20-Jul-2023
15:04
linh
pham



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Inj Date : 14-JUL-2023 13:02
InstruID : voa6.i
LabSampID : VSTD001

Acrylonitrile (107-13-1)

Reason Code:

BEFORE

MASS
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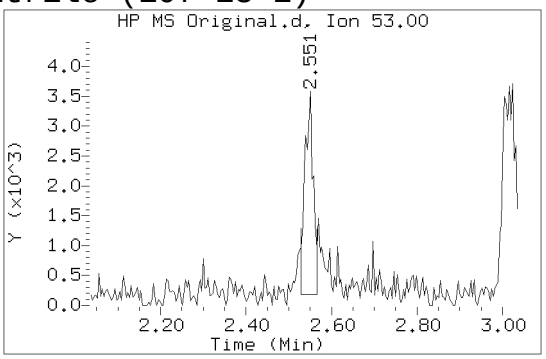
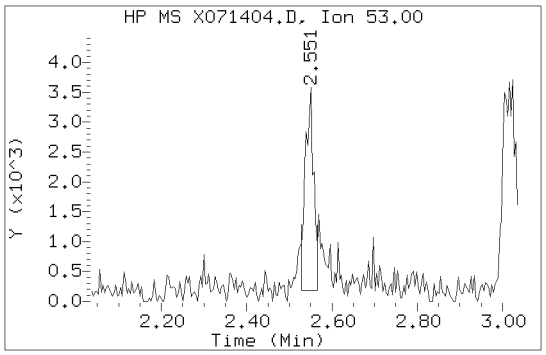
AREA
4763
HEIGHT
3403
20-Jul-2023
15:04
linh
pham



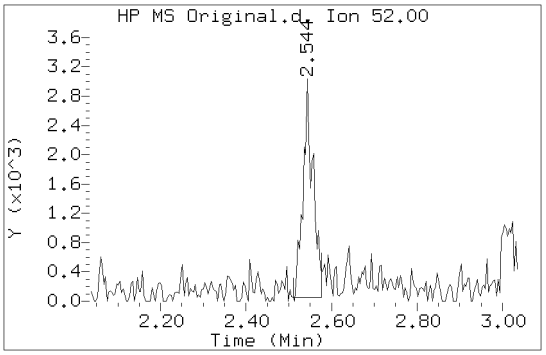
AFTER

MASS
53
AREA
4763
HEIGHT
3403
20-Jul-2023
15:04
linh
pham



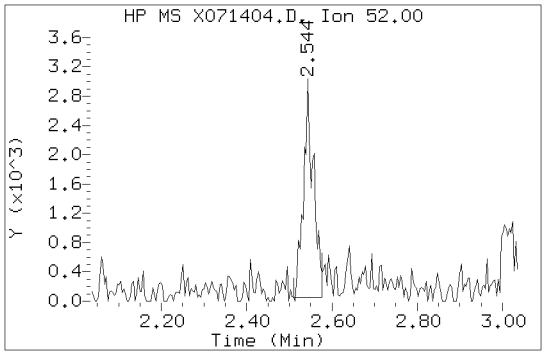
BEFORE

MASS
52
AREA
4911
HEIGHT
2983
20-Jul-2023
15:04
linh
pham



AFTER

MASS
52
AREA
4911
HEIGHT
2983
20-Jul-2023
15:04
linh
pham



BEFORE

MASS
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AREA
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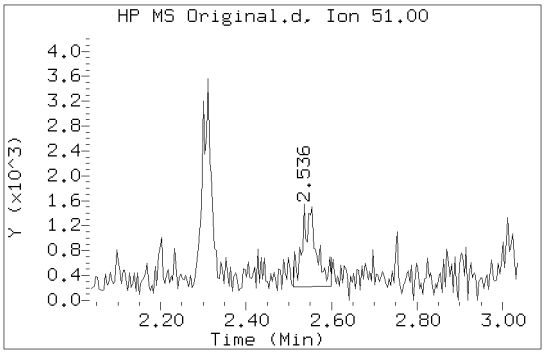
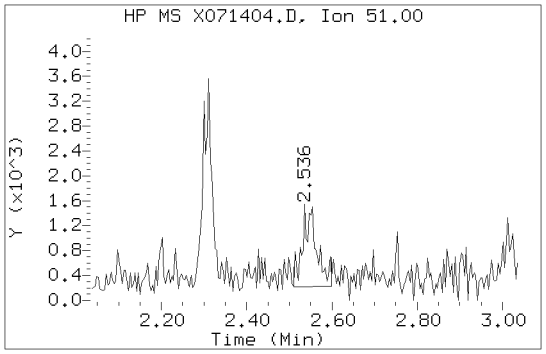
HEIGHT
1324
20-Jul-2023
15:04
linh
pham



AFTER

MASS
51
AREA
3020
HEIGHT
1324
20-Jul-2023
15:04
linh
pham

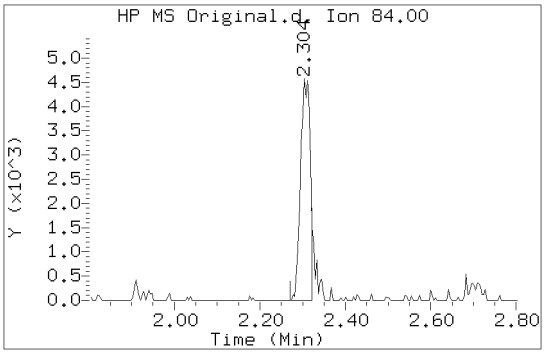


Methylene Chloride (75-09-2)

Reason Code:

BEFORE

MASS
84
AREA
7389
HEIGHT
4576
20-Jul-2023
15:04
linh
pham



AFTER

MASS
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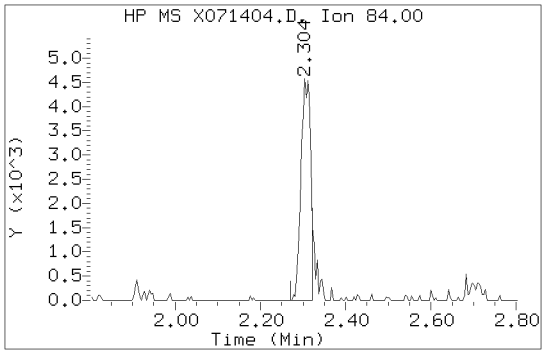
AREA
7389
HEIGHT
4576
20-Jul-2023
15:04
linh
pham

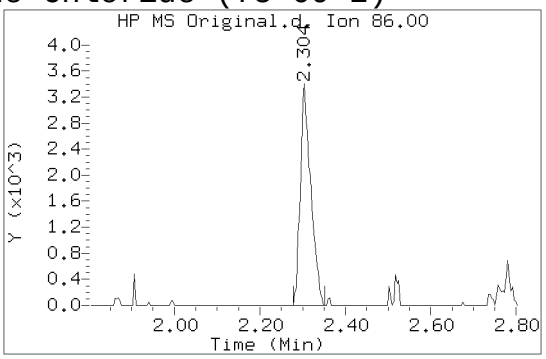


Data File : \\NAHSTWS005\Target\chem\voa6.i\X230714.b\X071404.D
Inj Date : 14-JUL-2023 13:02
InstruID : voa6.i
LabSampID : VSTD001

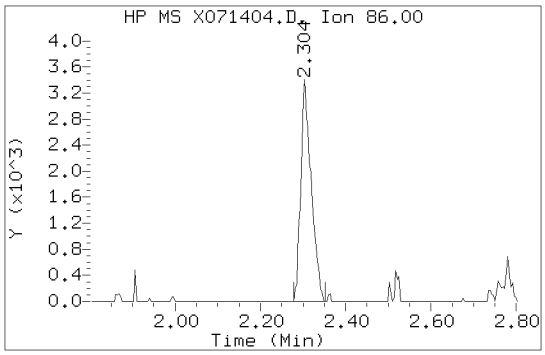
Methylene Chloride (75-09-2)

Reason Code:

BEFORE
MASS
86
AREA
5890
HEIGHT
3405
20-Jul-2023
15:04
linh
pham



AFTER
MASS
86
AREA
5890
HEIGHT
3405
20-Jul-2023
15:04
linh
pham



BEFORE
MASS
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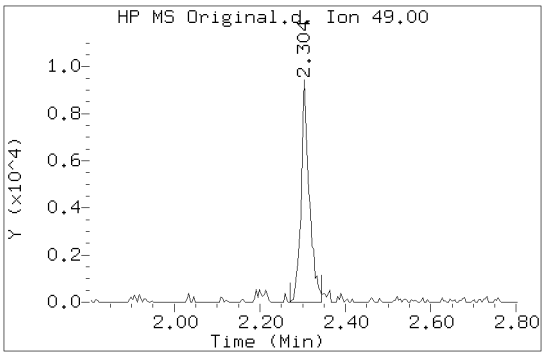
AREA
12826
HEIGHT
9432
20-Jul-2023
15:04
linh
pham



AFTER
MASS
49
AREA
12826
HEIGHT
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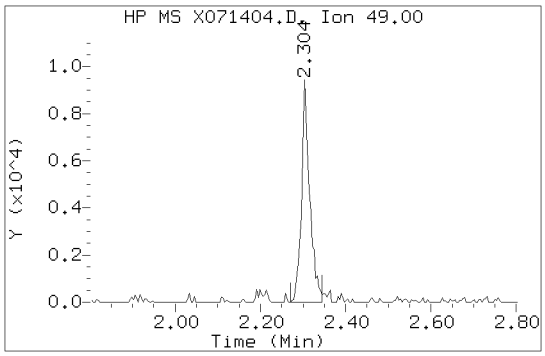
20-Jul-2023
15:04
linh
pham



2-Butanone (78-93-3)

Reason Code:

BEFORE
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AREA
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HEIGHT
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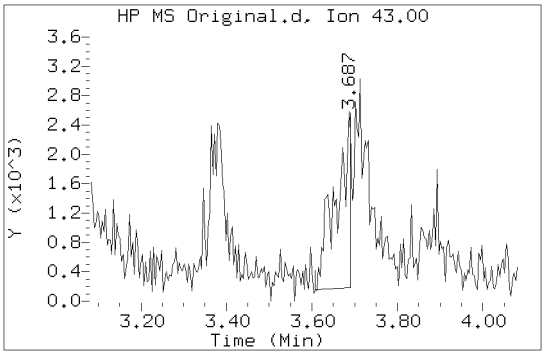
20-Jul-2023
15:04
linh
pham



AFTER
MASS
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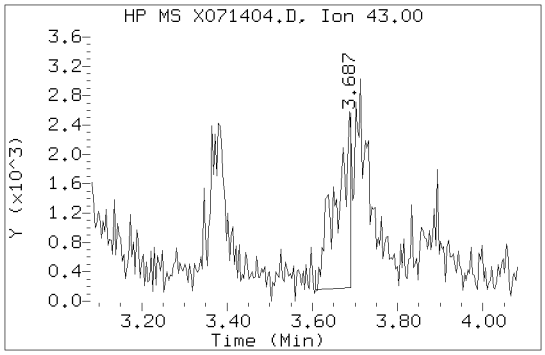
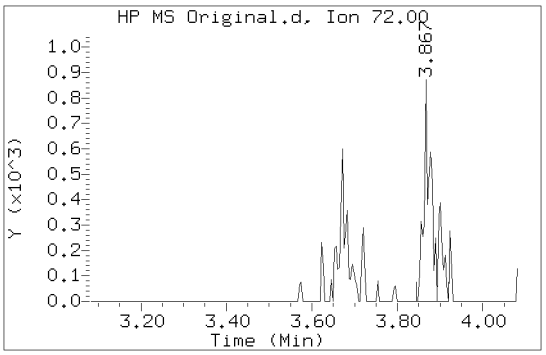
AREA
5549
HEIGHT
2403
20-Jul-2023
15:04
linh
pham



BEFORE
MASS
72
AREA
1227
HEIGHT
872
20-Jul-2023
15:04
linh
pham



AFTER
MASS
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AREA
1227
HEIGHT
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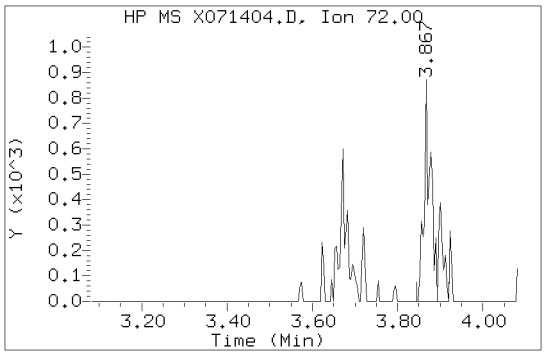
20-Jul-2023
15:04
linh
pham



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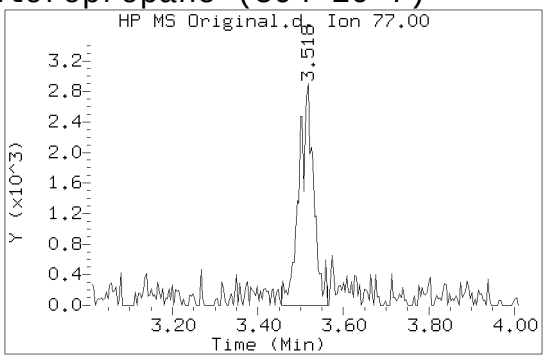
Inj Date : 14-JUL-2023 13:02
InstruID : voa6.i
LabSampID : VSTD001

2,2-Dichloropropane (594-20-7)

Reason Code:

BEFORE
MASS
77
AREA
7001
HEIGHT
2901
20-Jul-2023
15:04
linh
pham



AFTER
MASS
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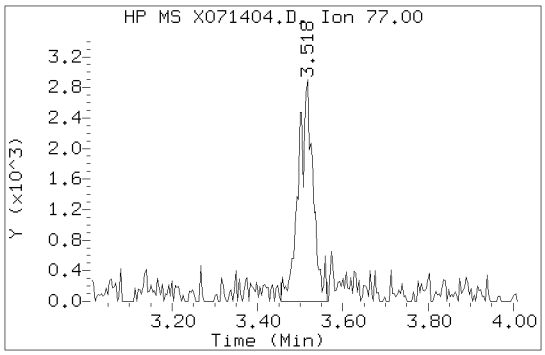
AREA
7001
HEIGHT
2901
20-Jul-2023
15:04
linh
pham



BEFORE
MASS
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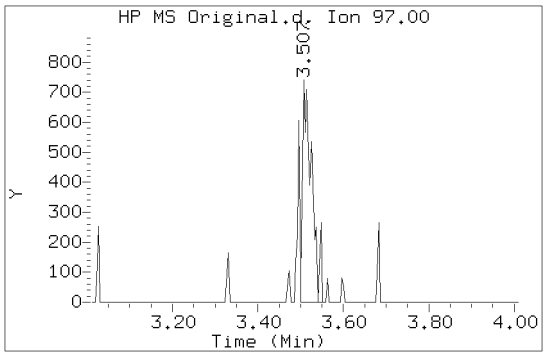
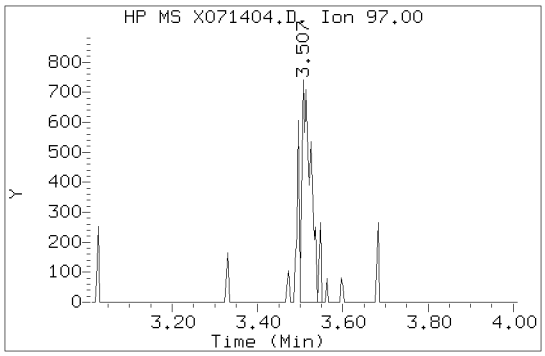
AREA
1144
HEIGHT
741
20-Jul-2023
15:04
linh
pham



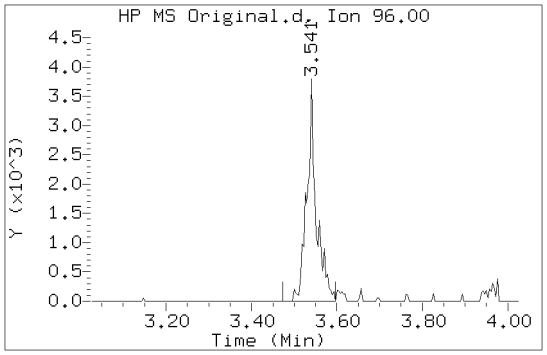
AFTER
MASS
97
AREA
1144
HEIGHT
741
20-Jul-2023
15:04
linh
pham



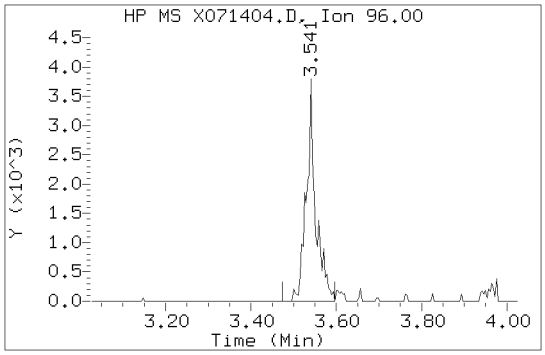
cis-1,2-Dichloroethene (156-59-2)

Reason Code:

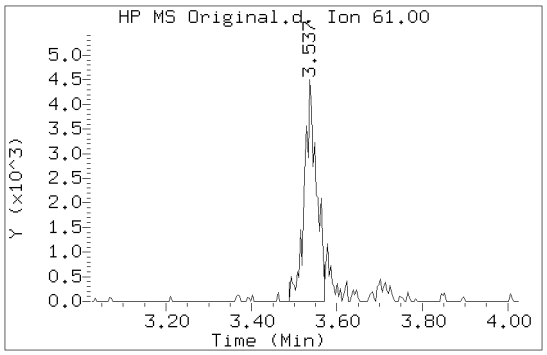
BEFORE
MASS
96
AREA
5828
HEIGHT
3797
20-Jul-2023
15:04
linh
pham



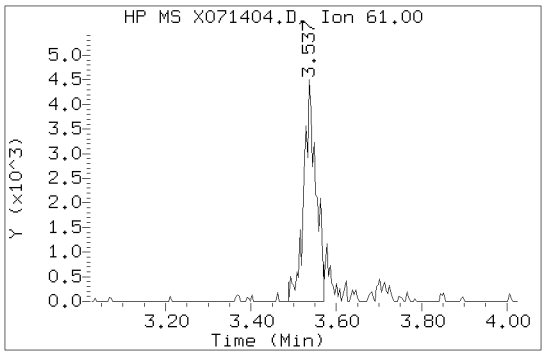
AFTER
MASS
96
AREA
5828
HEIGHT
3797
20-Jul-2023
15:04
linh
pham



BEFORE
MASS
61
AREA
9003
HEIGHT
4504
20-Jul-2023
15:04
linh
pham



AFTER
MASS
61
AREA
9003
HEIGHT
4504
20-Jul-2023
15:04
linh
pham



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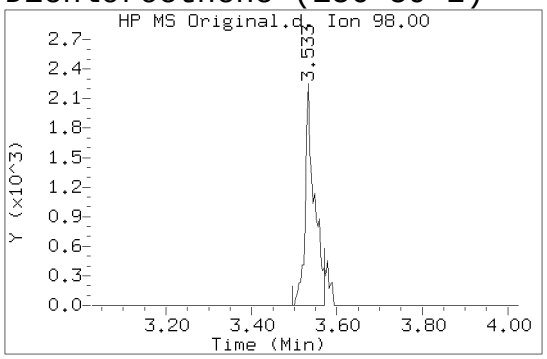
Inj Date : 14-JUL-2023 13:02
InstruID : voa6.i
LabSampID : VSTD001

cis-1,2-Dichloroethene (156-59-2)

Reason Code:

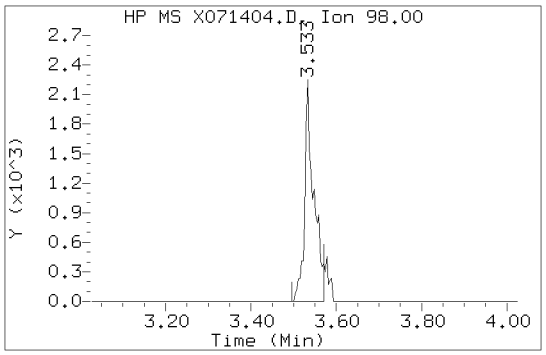
BEFORE

MASS
98
AREA
3384
HEIGHT
2251
20-Jul-2023
15:04
linh
pham



AFTER

MASS
98
AREA
3384
HEIGHT
2251
20-Jul-2023
15:04
linh
pham

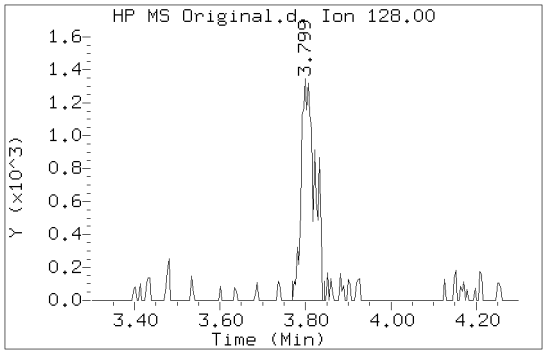


Bromochloromethane (74-97-5)

Reason Code:

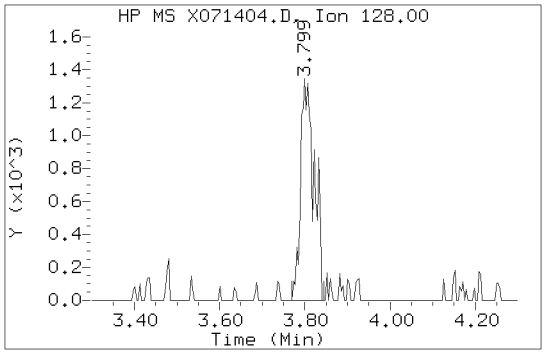
BEFORE

MASS
128
AREA
3002
HEIGHT
1346
20-Jul-2023
15:04
linh
pham



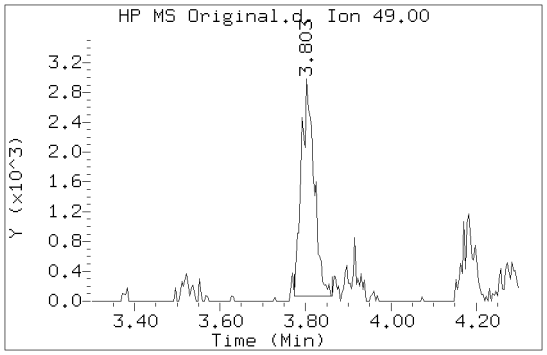
AFTER

MASS
128
AREA
3002
HEIGHT
1346
20-Jul-2023
15:04
linh
pham



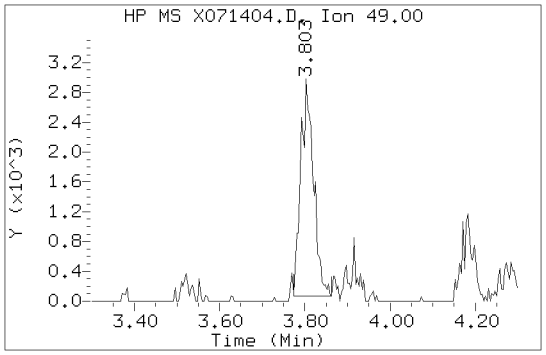
BEFORE

MASS
49
AREA
6119
HEIGHT
2913
20-Jul-2023
15:04
linh
pham



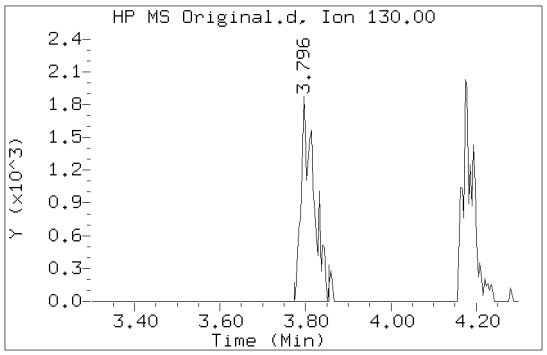
AFTER

MASS
49
AREA
6119
HEIGHT
2913
20-Jul-2023
15:04
linh
pham



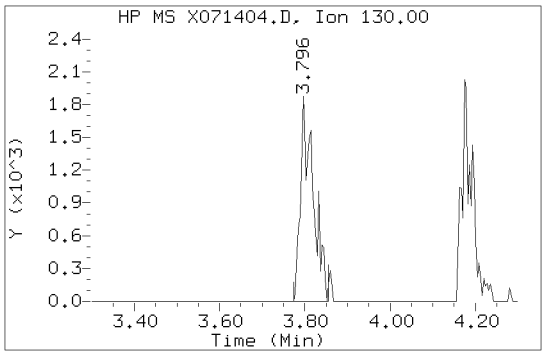
BEFORE

MASS
130
AREA
3970
HEIGHT
1875
20-Jul-2023
15:04
linh
pham



AFTER

MASS
130
AREA
3970
HEIGHT
1875
20-Jul-2023
15:04
linh
pham



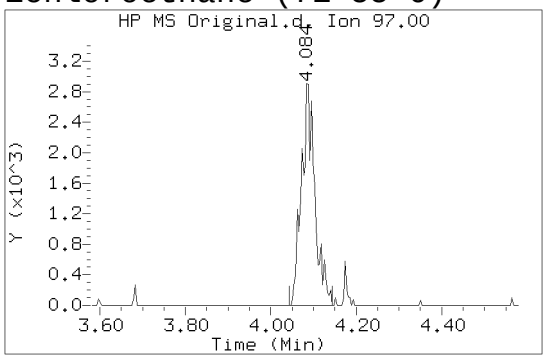
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230714.b\X071404.D
Inj Date : 14-JUL-2023 13:02
InstruID : voa6.i
LabSampID : VSTD001

1,1,1-Trichloroethane (71-55-6)

Reason Code:

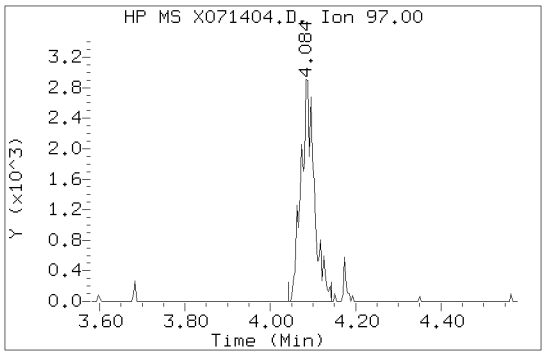
BEFORE

MASS
97
AREA
6398
HEIGHT
2905
20-Jul-2023
15:04
linh
pham



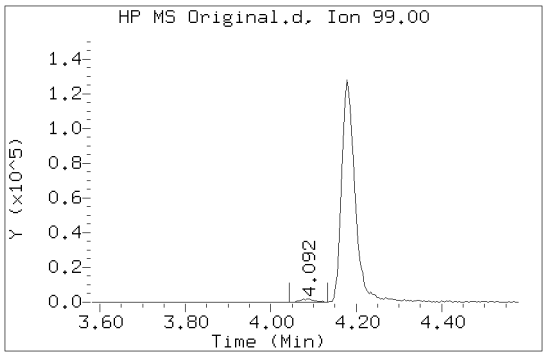
AFTER

MASS
97
AREA
6398
HEIGHT
2905
20-Jul-2023
15:04
linh
pham



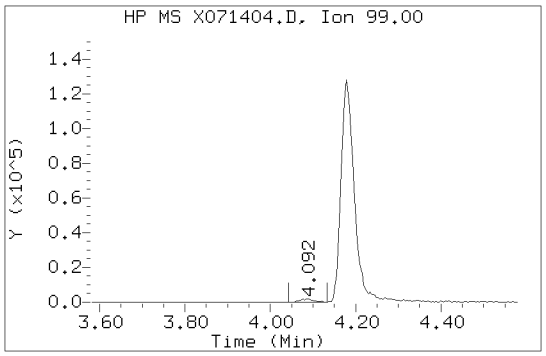
BEFORE

MASS
99
AREA
4128
HEIGHT
1962
20-Jul-2023
15:04
linh
pham



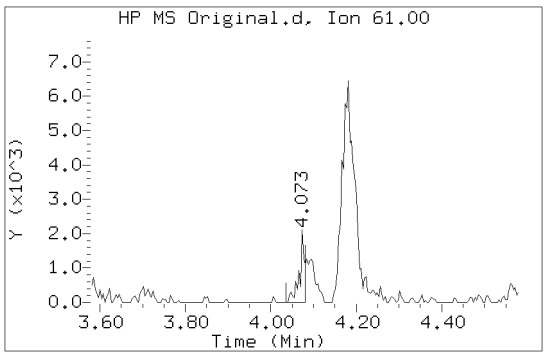
AFTER

MASS
99
AREA
4128
HEIGHT
1962
20-Jul-2023
15:04
linh
pham



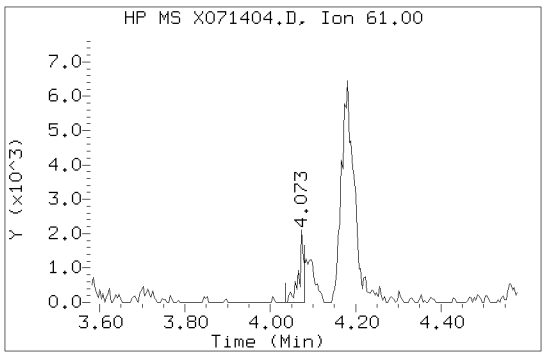
BEFORE

MASS
61
AREA
1719
HEIGHT
2107
20-Jul-2023
15:04
linh
pham



AFTER

MASS
61
AREA
1719
HEIGHT
2107
20-Jul-2023
15:04
linh
pham

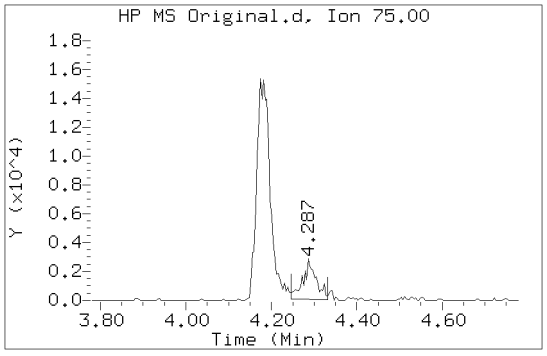


1,1-Dichloropropene (563-58-6)

Reason Code:

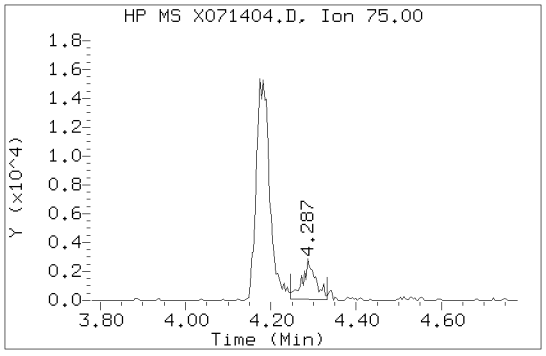
BEFORE

MASS
75
AREA
6097
HEIGHT
2831
20-Jul-2023
15:04
linh
pham



AFTER

MASS
75
AREA
6097
HEIGHT
2831
20-Jul-2023
15:04
linh
pham

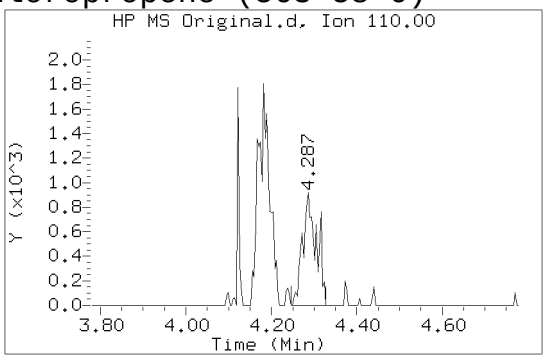


Data File : \\NAHSTWS005\Target\chem\voa6.i\X230714.b\X071404.D
Inj Date : 14-JUL-2023 13:02
InstruID : voa6.i
LabSampID : VSTD001

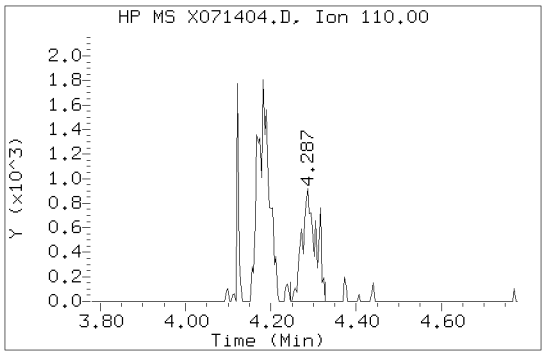
1,1-Dichloropropene (563-58-6)

Reason Code:

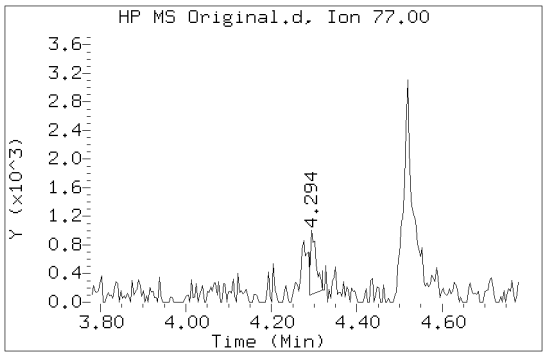
BEFORE
MASS
110
AREA
2079
HEIGHT
917
20-Jul-2023
15:04
linh
pham



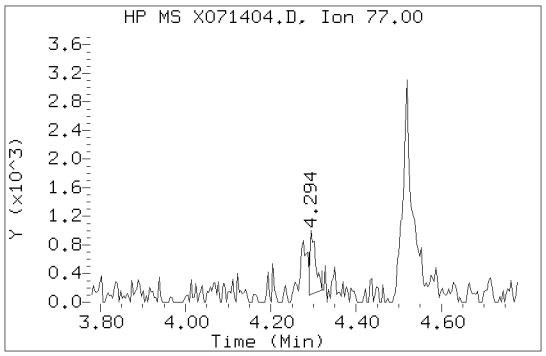
AFTER
MASS
110
AREA
2079
HEIGHT
917
20-Jul-2023
15:04
linh
pham



BEFORE
MASS
77
AREA
821
HEIGHT
892
20-Jul-2023
15:04
linh
pham



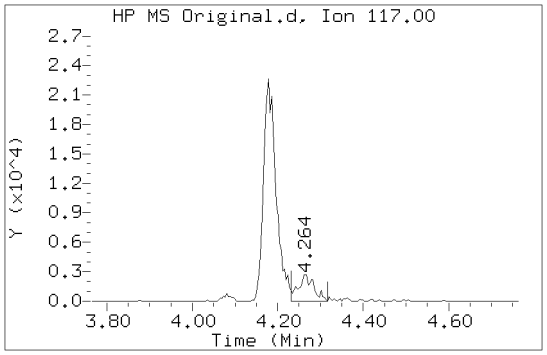
AFTER
MASS
77
AREA
821
HEIGHT
892
20-Jul-2023
15:04
linh
pham



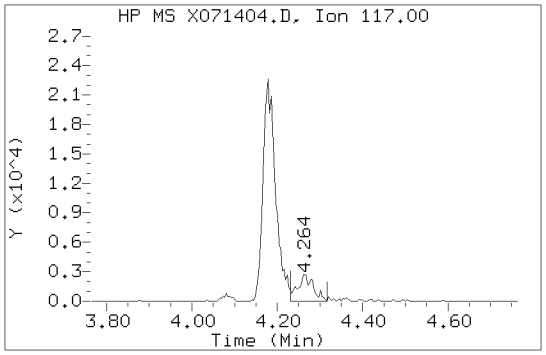
Carbon Tetrachloride (56-23-5)

Reason Code:

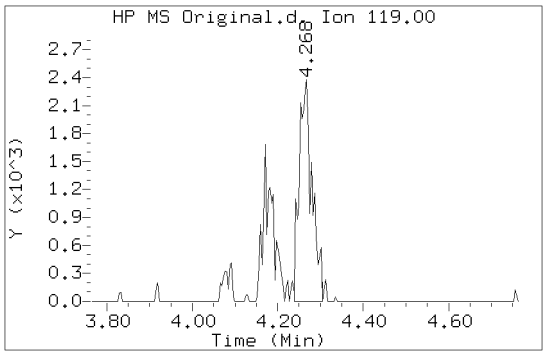
BEFORE
MASS
117
AREA
7002
HEIGHT
2701
20-Jul-2023
15:04
linh
pham



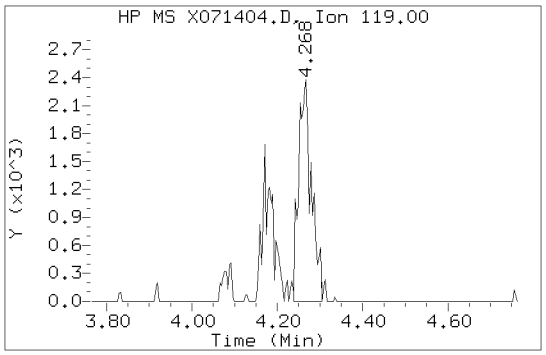
AFTER
MASS
117
AREA
7002
HEIGHT
2701
20-Jul-2023
15:04
linh
pham



BEFORE
MASS
119
AREA
5029
HEIGHT
2378
20-Jul-2023
15:04
linh
pham



AFTER
MASS
119
AREA
5029
HEIGHT
2378
20-Jul-2023
15:04
linh
pham



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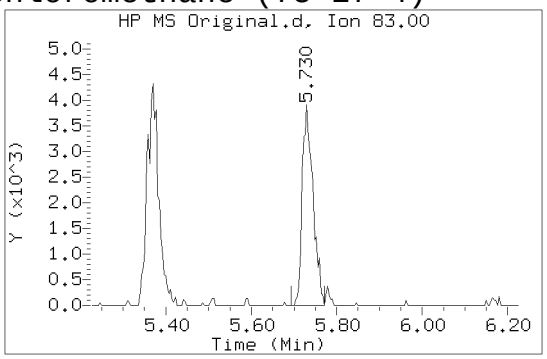
Inj Date : 14-JUL-2023 13:02
InstruID : voa6.i
LabSampID : VSTD001

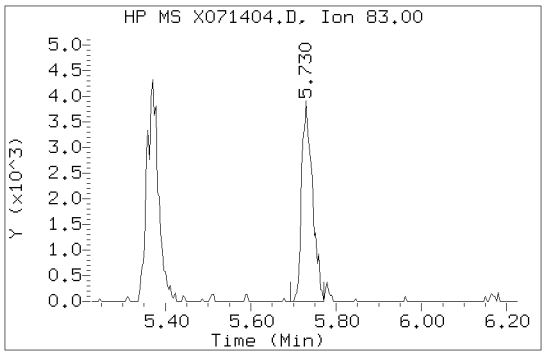
Bromodichloromethane (75-27-4)

Reason Code:

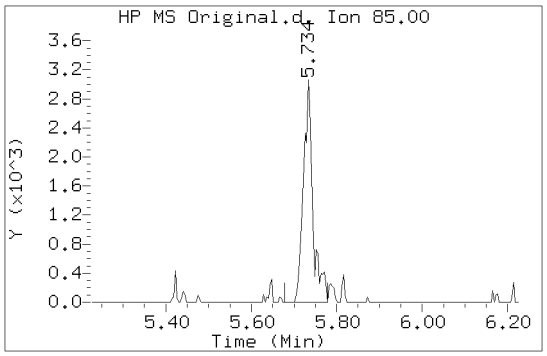
BEFORE
MASS
83
AREA
6967
HEIGHT
3917
20-Jul-2023
15:04
linh
pham



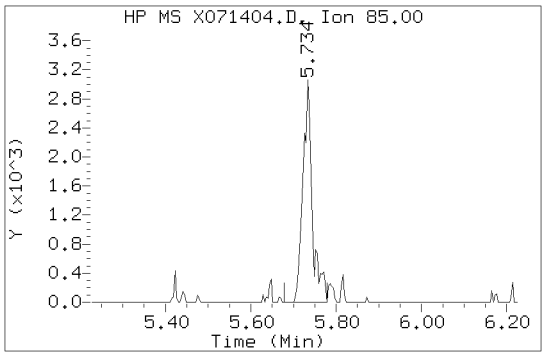
AFTER
MASS
83
AREA
6967
HEIGHT
3917
20-Jul-2023
15:04
linh
pham



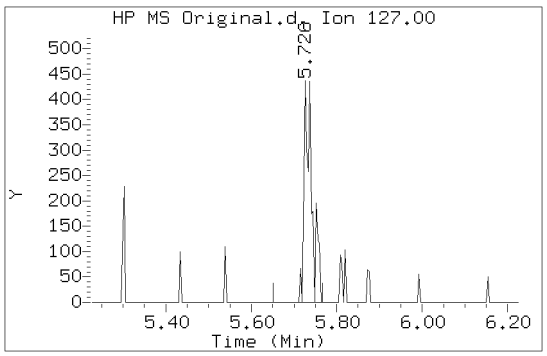
BEFORE
MASS
85
AREA
4797
HEIGHT
3061
20-Jul-2023
15:04
linh
pham



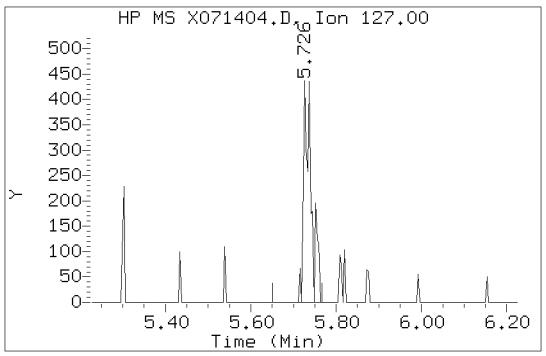
AFTER
MASS
85
AREA
4797
HEIGHT
3061
20-Jul-2023
15:04
linh
pham



BEFORE
MASS
127
AREA
568
HEIGHT
437
20-Jul-2023
15:04
linh
pham



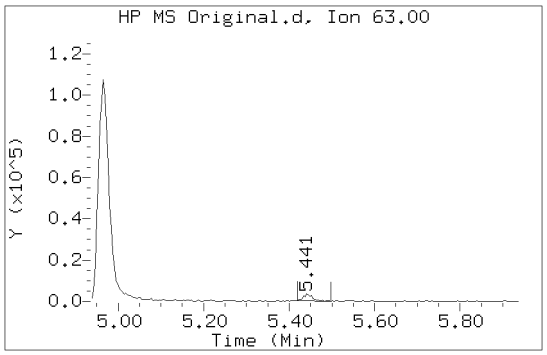
AFTER
MASS
127
AREA
568
HEIGHT
437
20-Jul-2023
15:04
linh
pham



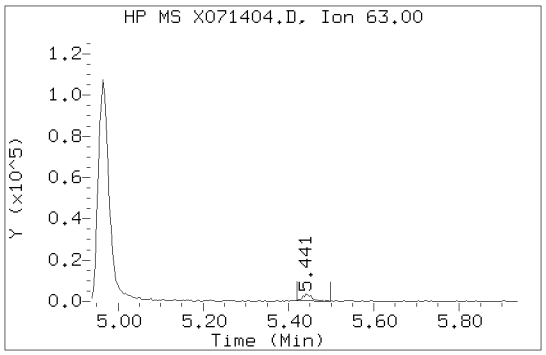
1,2-Dichloropropane (78-87-5)

Reason Code:

BEFORE
MASS
63
AREA
5153
HEIGHT
3474
20-Jul-2023
15:04
linh
pham



AFTER
MASS
63
AREA
5153
HEIGHT
3474
20-Jul-2023
15:04
linh
pham



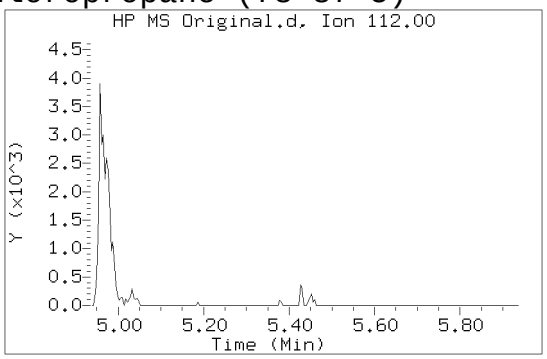
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230714.b\X071404.D
Inj Date : 14-JUL-2023 13:02
InstruID : voa6.i
LabSampID : VSTD001

1,2-Dichloropropane (78-87-5)

Reason Code:

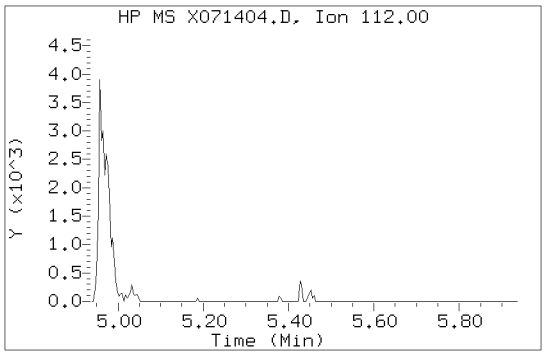
BEFORE

MASS
112
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham



AFTER

MASS
112
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham

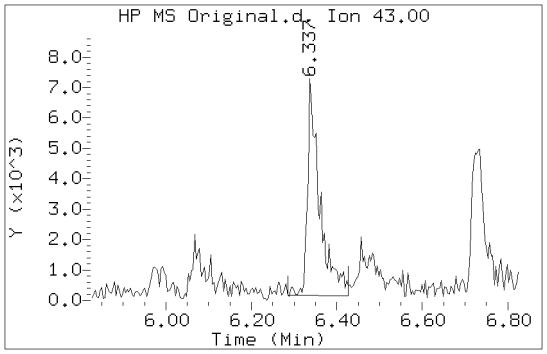


4-Methyl-2-Pentanone (108-10-1)

Reason Code:

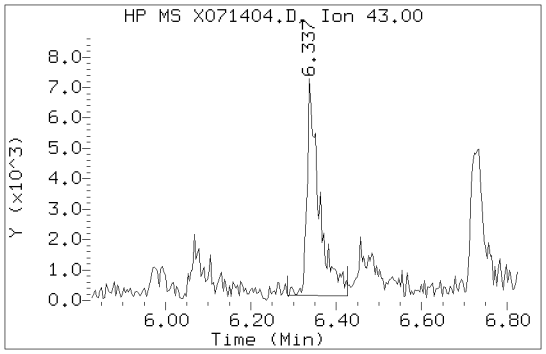
BEFORE

MASS
43
AREA
14106
HEIGHT
7121
20-Jul-2023
15:04
linh
pham



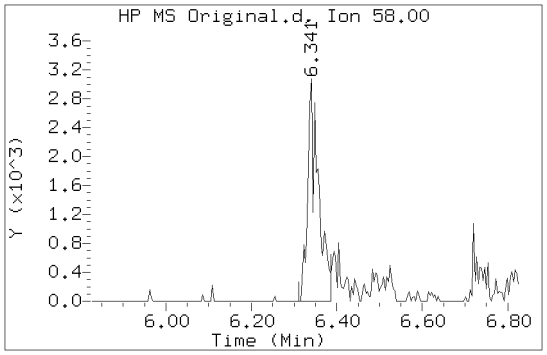
AFTER

MASS
43
AREA
14106
HEIGHT
7121
20-Jul-2023
15:04
linh
pham



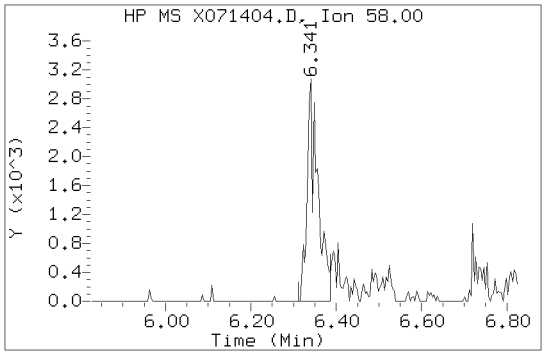
BEFORE

MASS
58
AREA
5370
HEIGHT
3077
20-Jul-2023
15:04
linh
pham



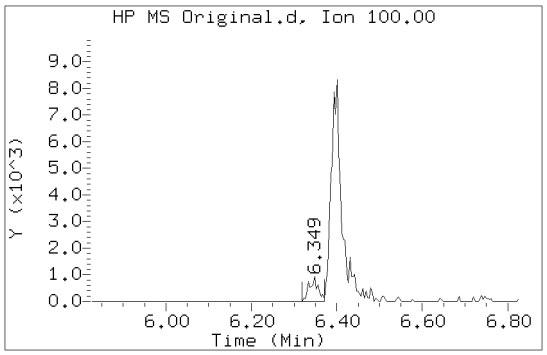
AFTER

MASS
58
AREA
5370
HEIGHT
3077
20-Jul-2023
15:04
linh
pham



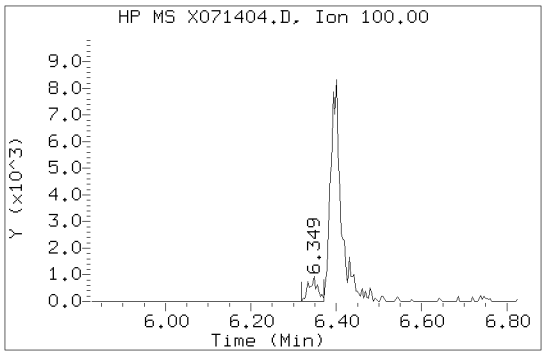
BEFORE

MASS
100
AREA
1328
HEIGHT
944
20-Jul-2023
15:04
linh
pham



AFTER

MASS
100
AREA
1328
HEIGHT
944
20-Jul-2023
15:04
linh
pham



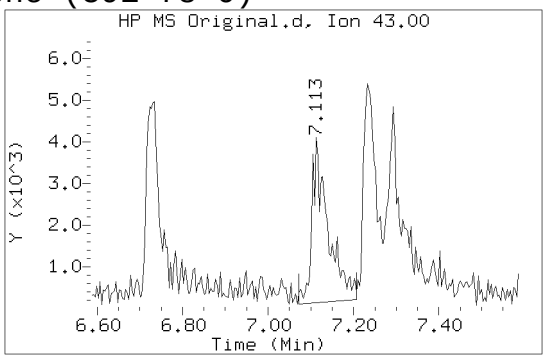
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230714.b\X071404.D
Inj Date : 14-JUL-2023 13:02
InstruID : voa6.i
LabSampID : VSTD001

2-Hexanone (591-78-6)

Reason Code:

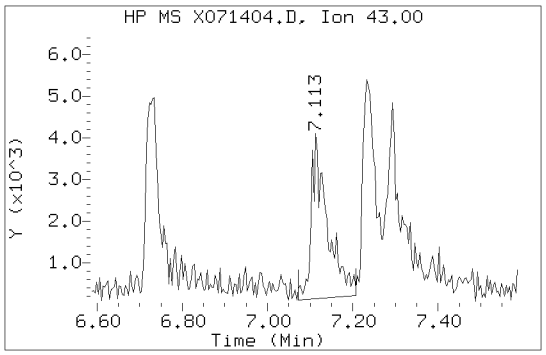
BEFORE

MASS
43
AREA
10319
HEIGHT
3957
20-Jul-2023
15:04
linh
pham



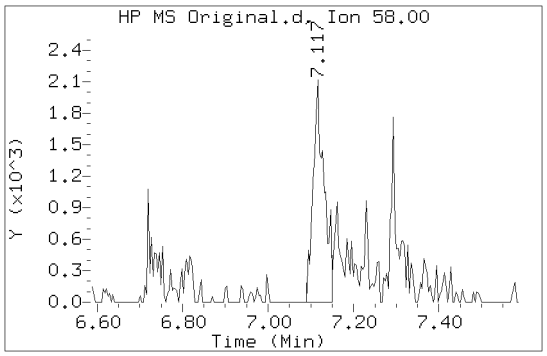
AFTER

MASS
43
AREA
10319
HEIGHT
3957
20-Jul-2023
15:04
linh
pham



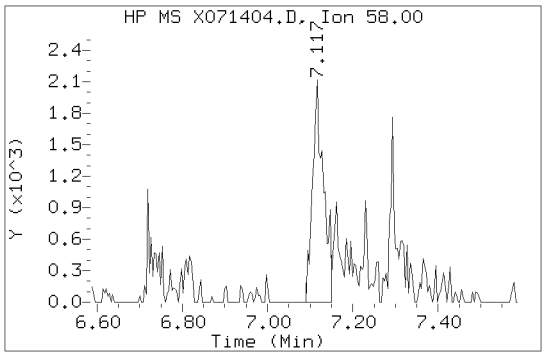
BEFORE

MASS
58
AREA
3772
HEIGHT
2118
20-Jul-2023
15:04
linh
pham



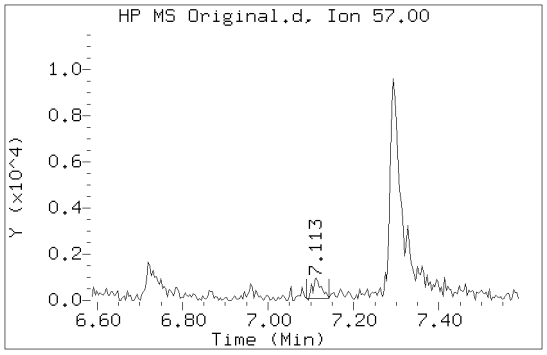
AFTER

MASS
58
AREA
3772
HEIGHT
2118
20-Jul-2023
15:04
linh
pham



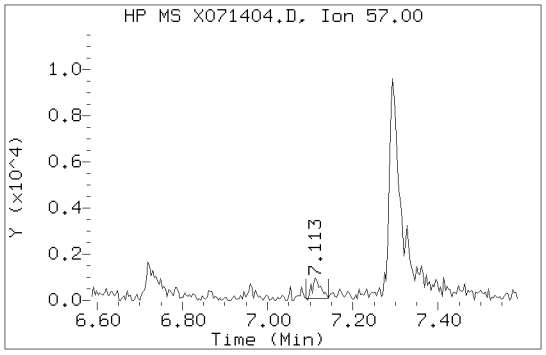
BEFORE

MASS
57
AREA
1177
HEIGHT
882
20-Jul-2023
15:04
linh
pham



AFTER

MASS
57
AREA
1177
HEIGHT
882
20-Jul-2023
15:04
linh
pham

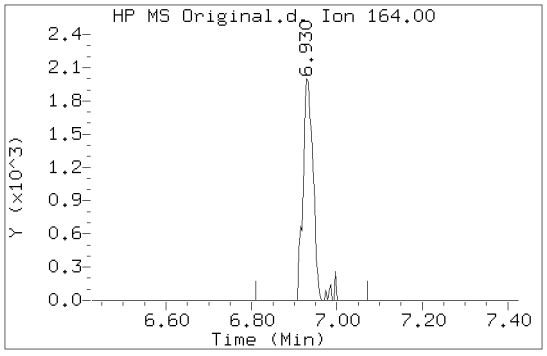


Tetrachloroethene (127-18-4)

Reason Code:

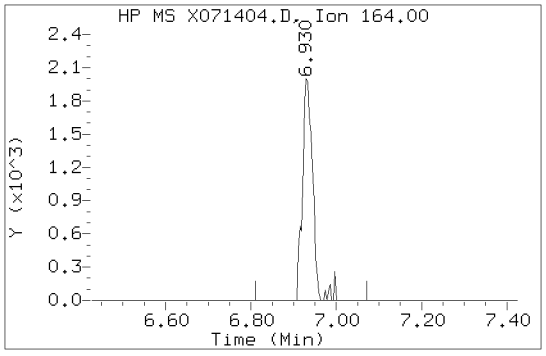
BEFORE

MASS
164
AREA
3431
HEIGHT
2001
20-Jul-2023
15:04
linh
pham



AFTER

MASS
164
AREA
3431
HEIGHT
2001
20-Jul-2023
15:04
linh
pham

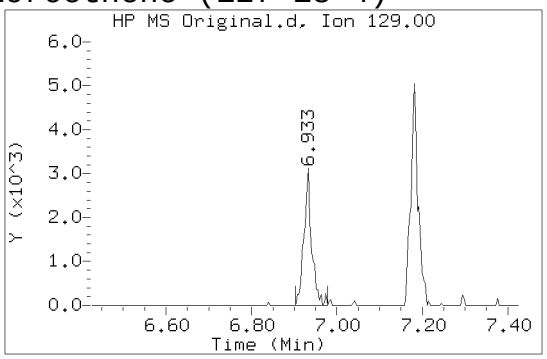


Data File : \\NAHSTWS005\Target\chem\voa6.i\X230714.b\X071404.D
Inj Date : 14-JUL-2023 13:02
InstruID : voa6.i
LabSampID : VSTD001

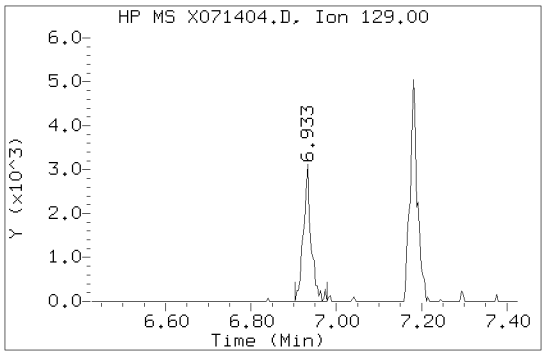
Tetrachloroethene (127-18-4)

Reason Code:

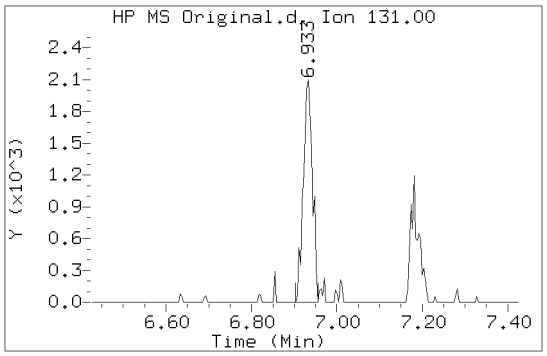
BEFORE
MASS
129
AREA
3977
HEIGHT
3127
20-Jul-2023
15:04
linh
pham



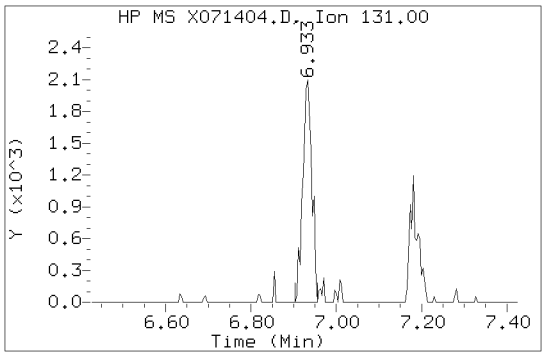
AFTER
MASS
129
AREA
3977
HEIGHT
3127
20-Jul-2023
15:04
linh
pham



BEFORE
MASS
131
AREA
3184
HEIGHT
2098
20-Jul-2023
15:04
linh
pham



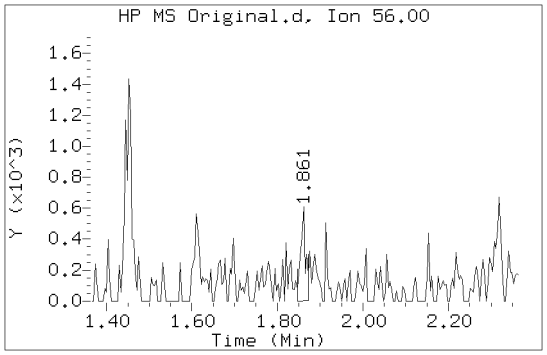
AFTER
MASS
131
AREA
3184
HEIGHT
2098
20-Jul-2023
15:04
linh
pham



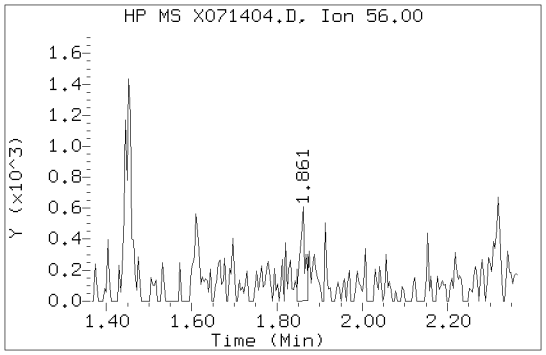
Acrolein (107-02-8)

Reason Code:

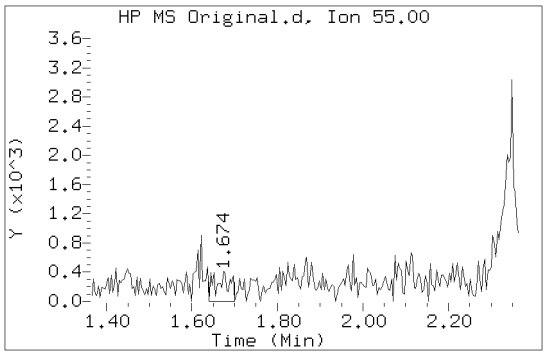
BEFORE
MASS
56
AREA
510
HEIGHT
608
20-Jul-2023
15:04
linh
pham



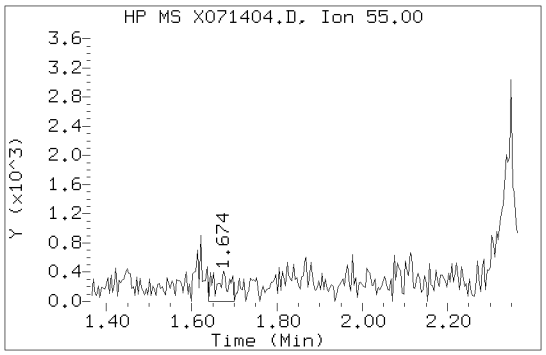
AFTER
MASS
56
AREA
510
HEIGHT
608
20-Jul-2023
15:04
linh
pham



BEFORE
MASS
55
AREA
888
HEIGHT
412
20-Jul-2023
15:04
linh
pham



AFTER
MASS
55
AREA
888
HEIGHT
412
20-Jul-2023
15:04
linh
pham



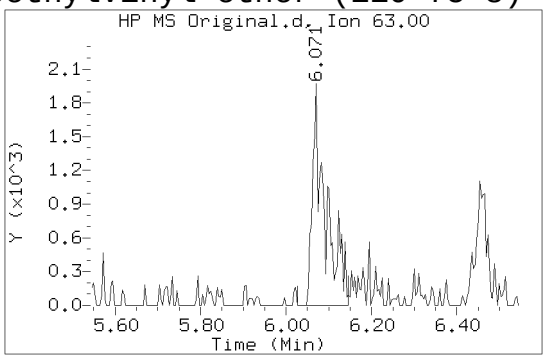
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230714.b\X071404.D
Inj Date : 14-JUL-2023 13:02
InstruID : voa6.i
LabSampID : VSTD001

2-Chloroethylvinyl ether (110-75-8)

Reason Code:

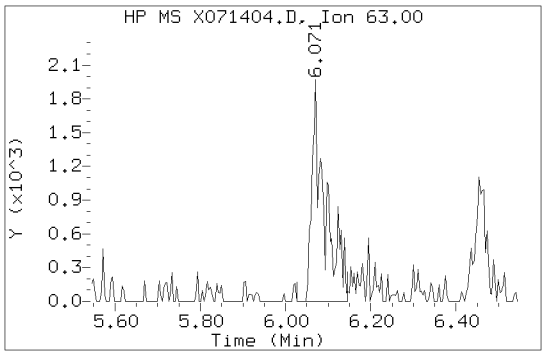
BEFORE

MASS
63
AREA
4176
HEIGHT
1971
20-Jul-2023
15:04
linh
pham



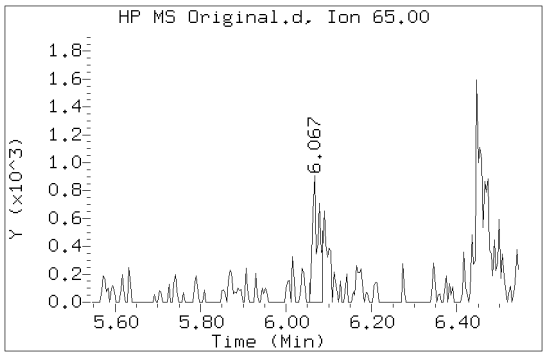
AFTER

MASS
63
AREA
4176
HEIGHT
1971
20-Jul-2023
15:04
linh
pham



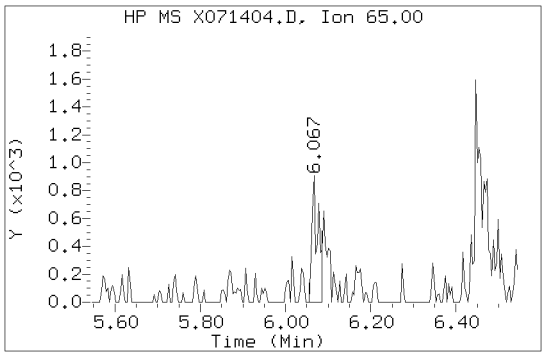
BEFORE

MASS
65
AREA
920
HEIGHT
907
20-Jul-2023
15:04
linh
pham



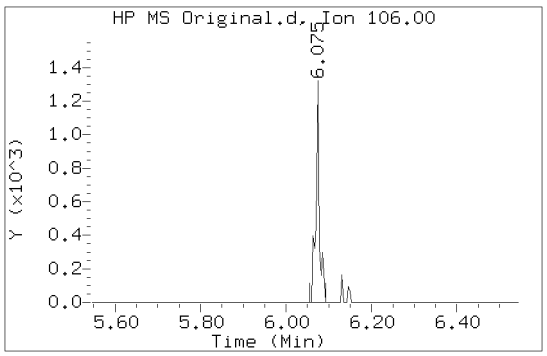
AFTER

MASS
65
AREA
920
HEIGHT
907
20-Jul-2023
15:04
linh
pham



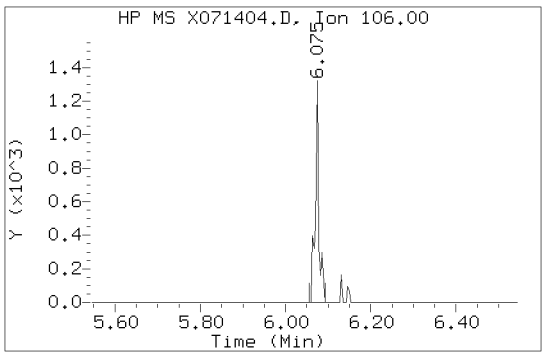
BEFORE

MASS
106
AREA
764
HEIGHT
1322
20-Jul-2023
15:04
linh
pham



AFTER

MASS
106
AREA
764
HEIGHT
1322
20-Jul-2023
15:04
linh
pham

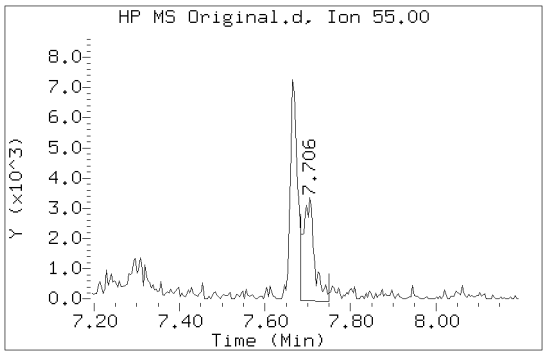


1-Chlorohexane (544-10-5)

Reason Code:

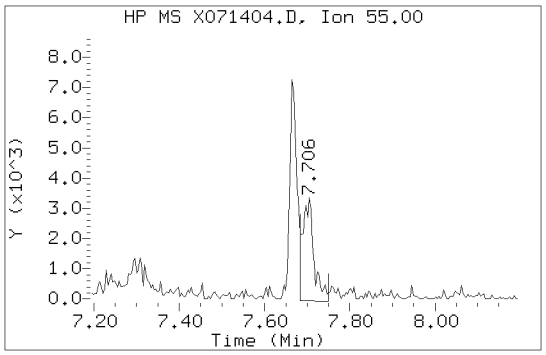
BEFORE

MASS
55
AREA
6663
HEIGHT
3425
20-Jul-2023
15:04
linh
pham



AFTER

MASS
55
AREA
6663
HEIGHT
3425
20-Jul-2023
15:04
linh
pham



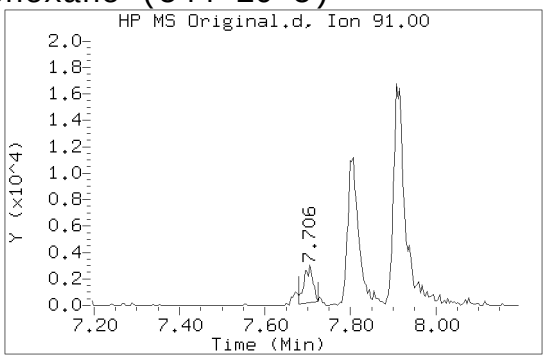
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230714.b\X071404.D
Inj Date : 14-JUL-2023 13:02
InstruID : voa6.i
LabSampID : VSTD001

1-Chlorohexane (544-10-5)

Reason Code:

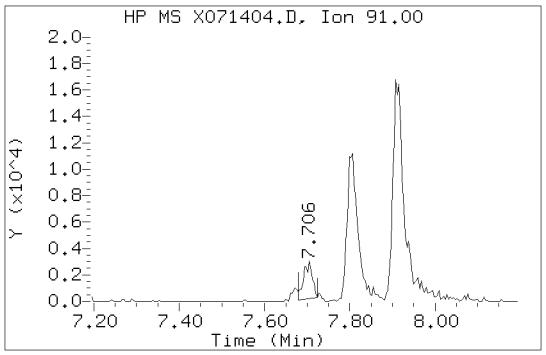
BEFORE

MASS
91
AREA
4133
HEIGHT
2845
20-Jul-2023
15:04
linh
pham



AFTER

MASS
91
AREA
4133
HEIGHT
2845
20-Jul-2023
15:04
linh
pham

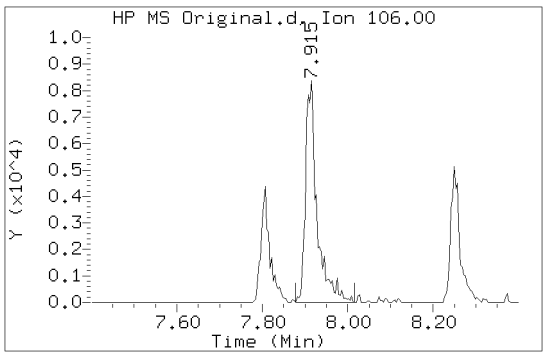


m,p-Xylenes ()

Reason Code:

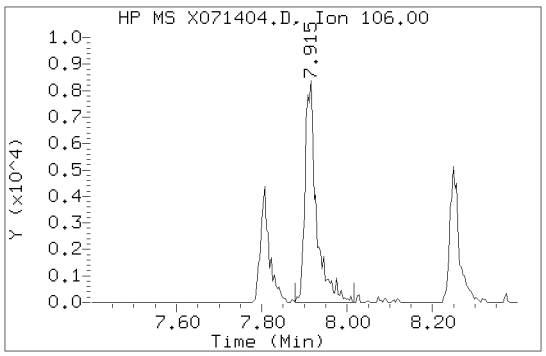
BEFORE

MASS
106
AREA
15703
HEIGHT
8376
20-Jul-2023
15:04
linh
pham



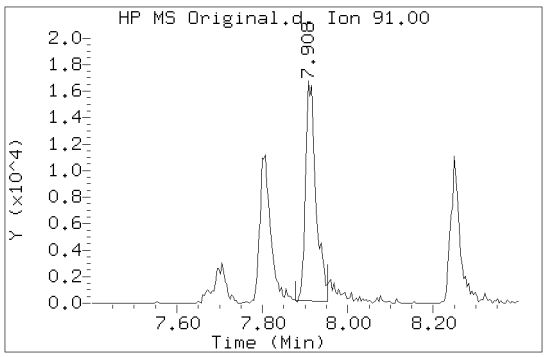
AFTER

MASS
106
AREA
15703
HEIGHT
8376
20-Jul-2023
15:04
linh
pham



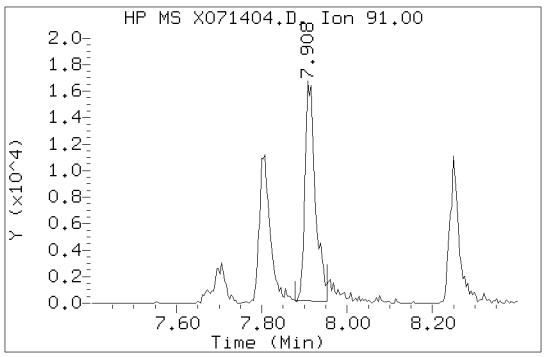
BEFORE

MASS
91
AREA
28386
HEIGHT
16587
20-Jul-2023
15:04
linh
pham



AFTER

MASS
91
AREA
28386
HEIGHT
16587
20-Jul-2023
15:04
linh
pham

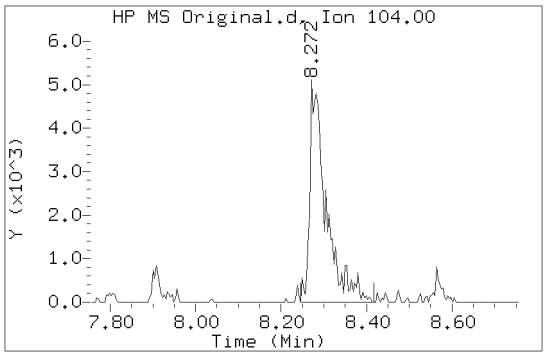


Styrene (100-42-5)

Reason Code:

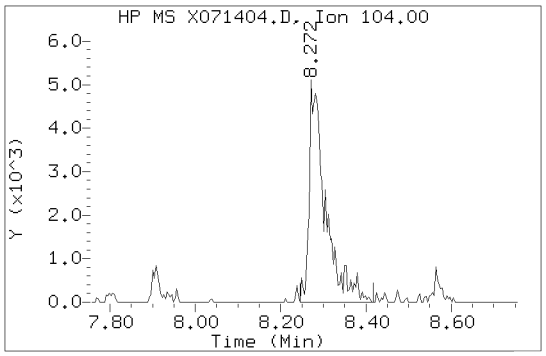
BEFORE

MASS
104
AREA
13315
HEIGHT
5109
20-Jul-2023
15:04
linh
pham



AFTER

MASS
104
AREA
13315
HEIGHT
5109
20-Jul-2023
15:04
linh
pham



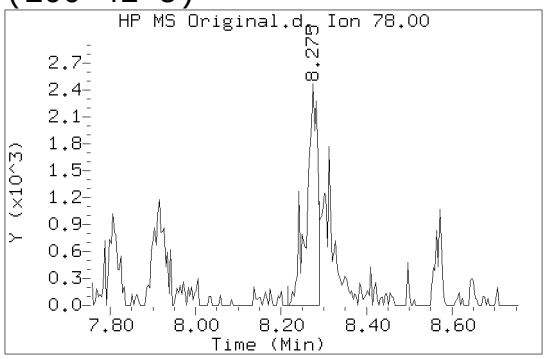
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230714.b\X071404.D
Inj Date : 14-JUL-2023 13:02
InstruID : voa6.i
LabSampID : VSTD001

Styrene (100-42-5)

Reason Code:

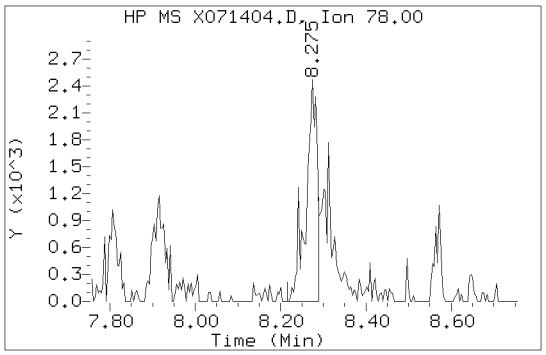
BEFORE

MASS
78
AREA
4442
HEIGHT
2469
20-Jul-2023
15:04
linh
pham



AFTER

MASS
78
AREA
4442
HEIGHT
2469
20-Jul-2023
15:04
linh
pham

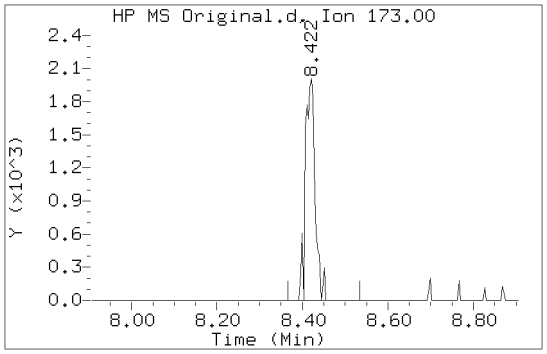


Bromoform (75-25-2)

Reason Code:

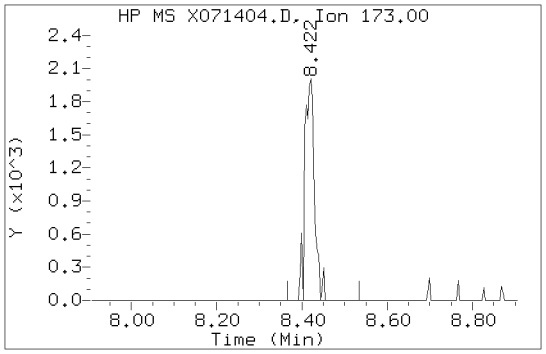
BEFORE

MASS
173
AREA
3238
HEIGHT
2008
20-Jul-2023
15:04
linh
pham



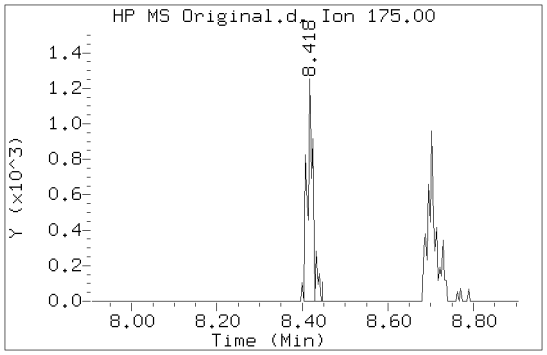
AFTER

MASS
173
AREA
3238
HEIGHT
2008
20-Jul-2023
15:04
linh
pham



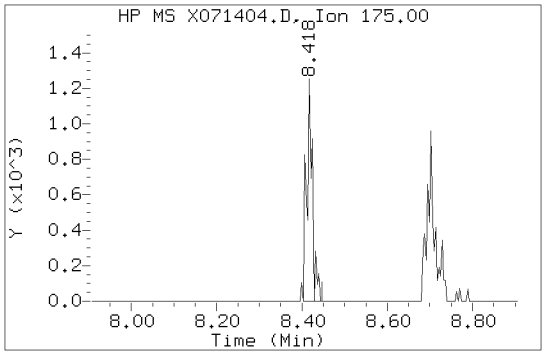
BEFORE

MASS
175
AREA
1174
HEIGHT
1253
20-Jul-2023
15:04
linh
pham



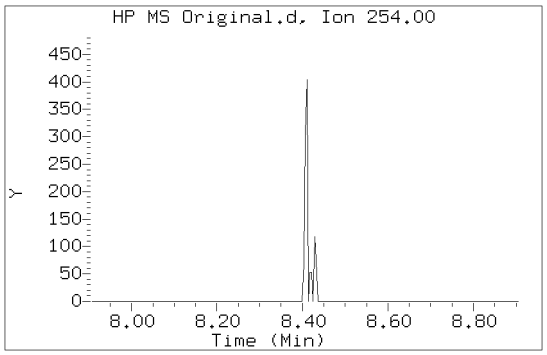
AFTER

MASS
175
AREA
1174
HEIGHT
1253
20-Jul-2023
15:04
linh
pham



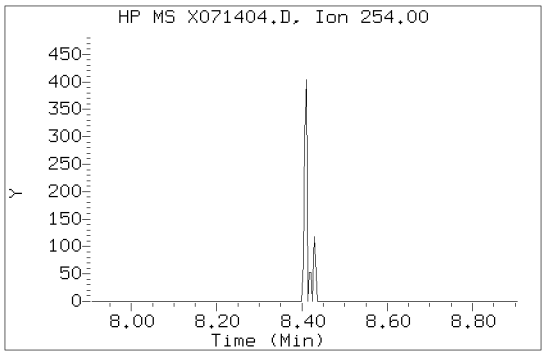
BEFORE

MASS
254
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham



AFTER

MASS
254
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham

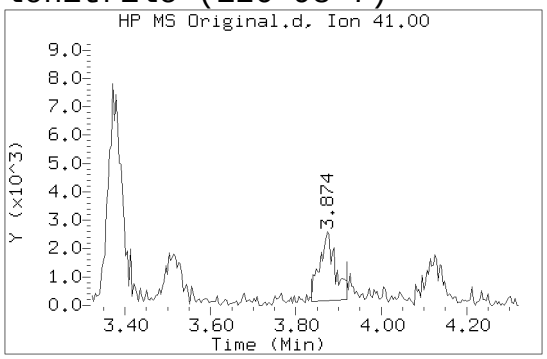


Data File : \\NAHSTWS005\Target\chem\voa6.i\X230714.b\X071404.D
Inj Date : 14-JUL-2023 13:02
InstruID : voa6.i
LabSampID : VSTD001

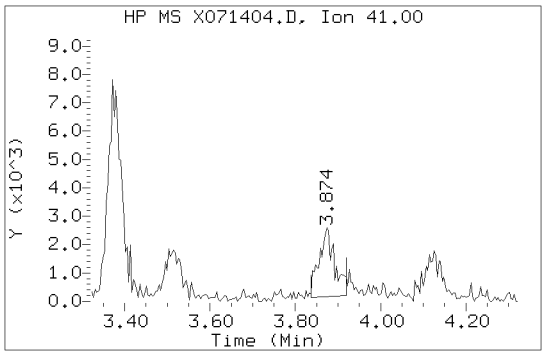
Methacrylonitrile (126-98-7)

Reason Code:

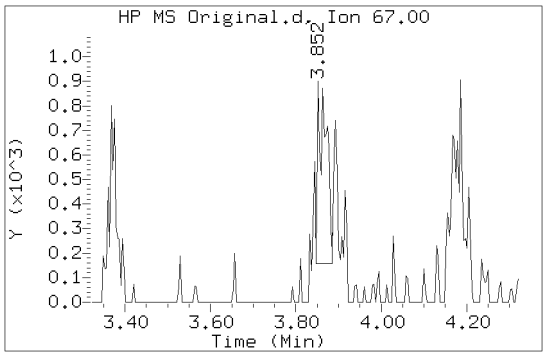
BEFORE
MASS
41
AREA
6195
HEIGHT
2436
20-Jul-2023
15:04
linh
pham



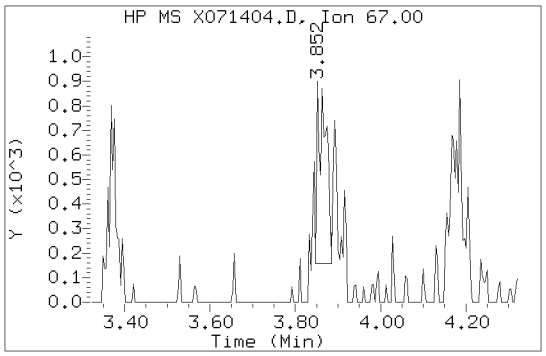
AFTER
MASS
41
AREA
6195
HEIGHT
2436
20-Jul-2023
15:04
linh
pham



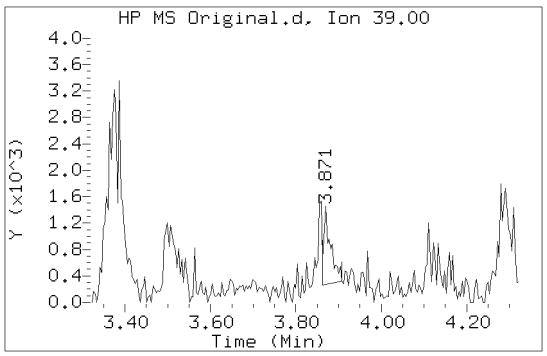
BEFORE
MASS
67
AREA
1024
HEIGHT
744
20-Jul-2023
15:04
linh
pham



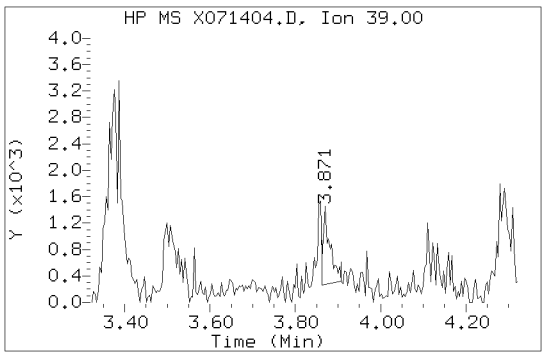
AFTER
MASS
67
AREA
1024
HEIGHT
744
20-Jul-2023
15:04
linh
pham



BEFORE
MASS
39
AREA
1324
HEIGHT
1187
20-Jul-2023
15:04
linh
pham



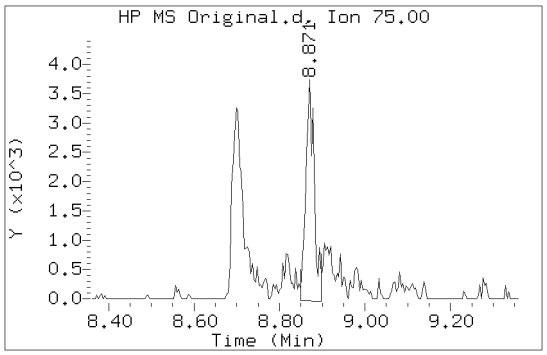
AFTER
MASS
39
AREA
1324
HEIGHT
1187
20-Jul-2023
15:04
linh
pham



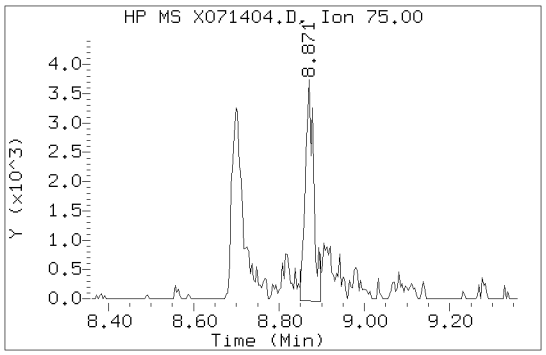
1,2,3-Trichloropropane (96-18-4)

Reason Code:

BEFORE
MASS
75
AREA
5203
HEIGHT
3776
20-Jul-2023
15:04
linh
pham



AFTER
MASS
75
AREA
5203
HEIGHT
3776
20-Jul-2023
15:04
linh
pham



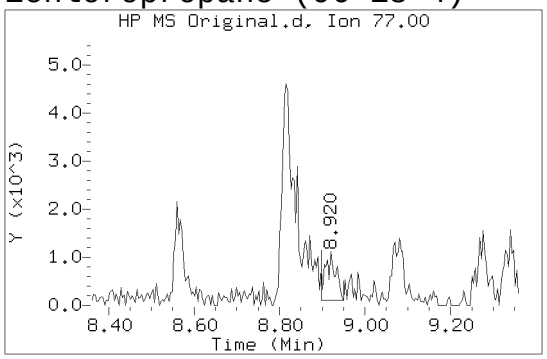
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230714.b\X071404.D
Inj Date : 14-JUL-2023 13:02
InstruID : voa6.i
LabSampID : VSTD001

1,2,3-Trichloropropane (96-18-4)

Reason Code:

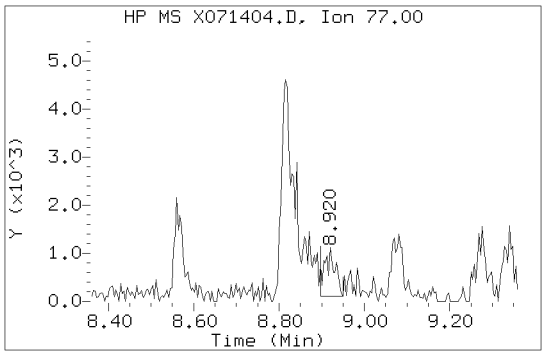
BEFORE

MASS
77
AREA
1749
HEIGHT
1014
20-Jul-2023
15:04
linh
pham



AFTER

MASS
77
AREA
1749
HEIGHT
1014
20-Jul-2023
15:04
linh
pham

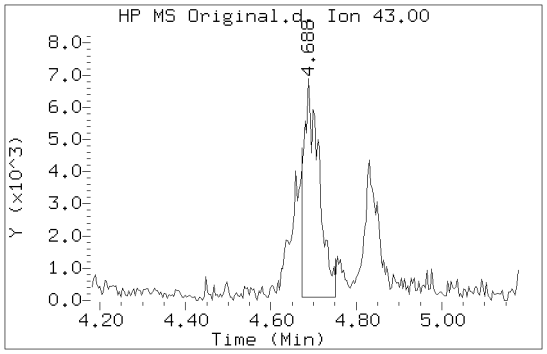


Isobutyl Alcohol (78-83-1)

Reason Code:

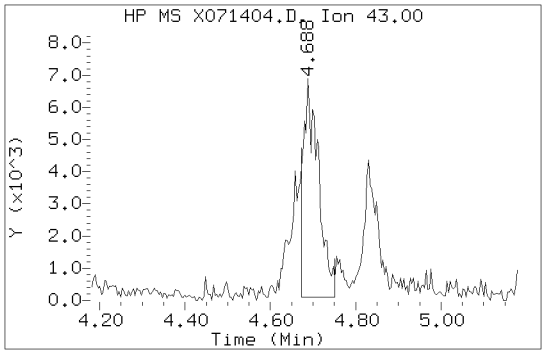
BEFORE

MASS
43
AREA
16938
HEIGHT
6786
20-Jul-2023
15:04
linh
pham



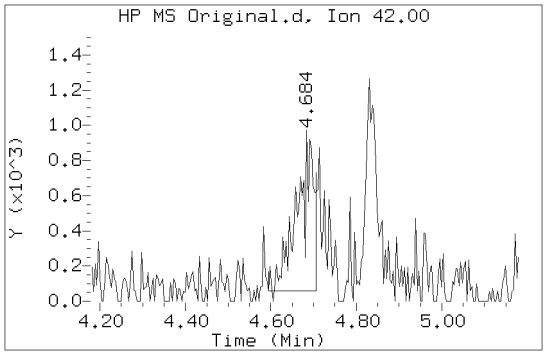
AFTER

MASS
43
AREA
16938
HEIGHT
6786
20-Jul-2023
15:04
linh
pham



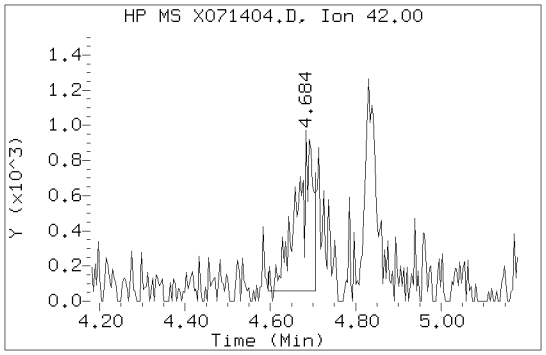
BEFORE

MASS
42
AREA
2469
HEIGHT
914
20-Jul-2023
15:04
linh
pham



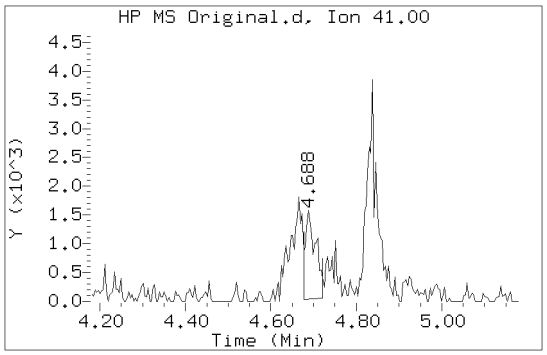
AFTER

MASS
42
AREA
2469
HEIGHT
914
20-Jul-2023
15:04
linh
pham



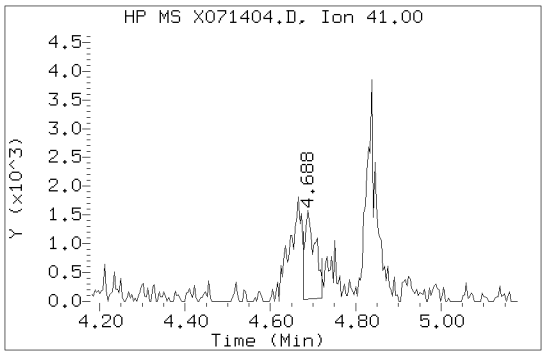
BEFORE

MASS
41
AREA
2733
HEIGHT
1544
20-Jul-2023
15:04
linh
pham



AFTER

MASS
41
AREA
2733
HEIGHT
1544
20-Jul-2023
15:04
linh
pham



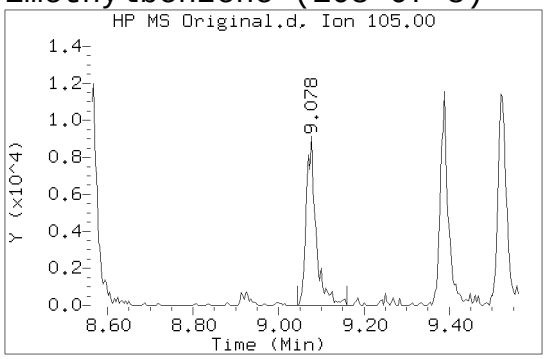
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230714.b\X071404.D
Inj Date : 14-JUL-2023 13:02
InstruID : voa6.i
LabSampID : VSTD001

1,3,5-Trimethylbenzene (108-67-8)

Reason Code:

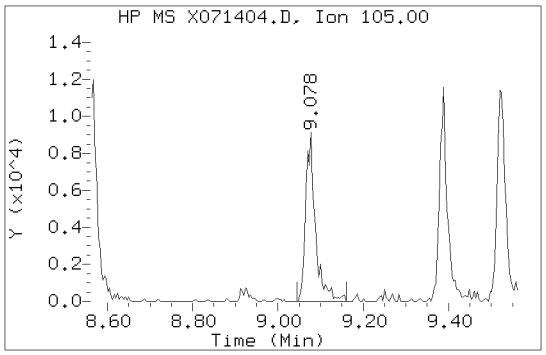
BEFORE

MASS
105
AREA
14649
HEIGHT
9159
20-Jul-2023
15:04
linh
pham



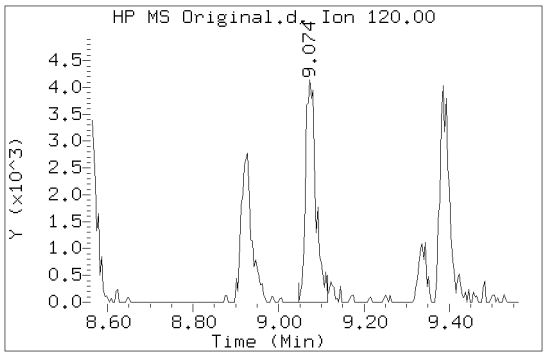
AFTER

MASS
105
AREA
14649
HEIGHT
9159
20-Jul-2023
15:04
linh
pham



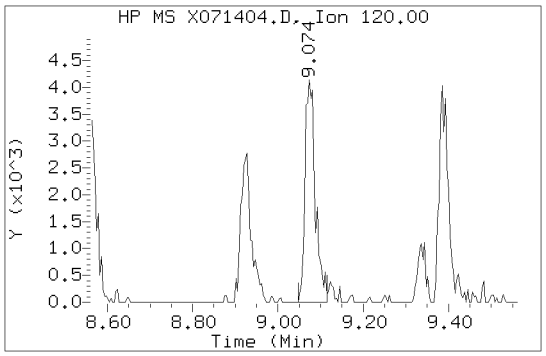
BEFORE

MASS
120
AREA
6985
HEIGHT
4141
20-Jul-2023
15:04
linh
pham



AFTER

MASS
120
AREA
6985
HEIGHT
4141
20-Jul-2023
15:04
linh
pham

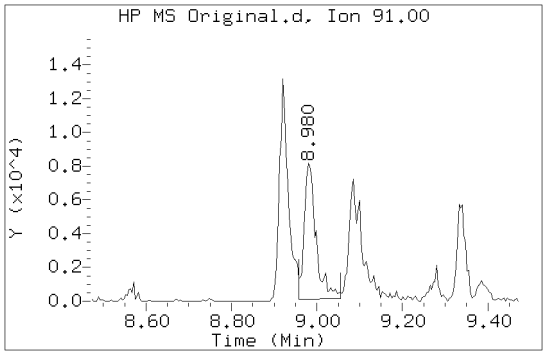


2-Chlorotoluene (95-49-8)

Reason Code:

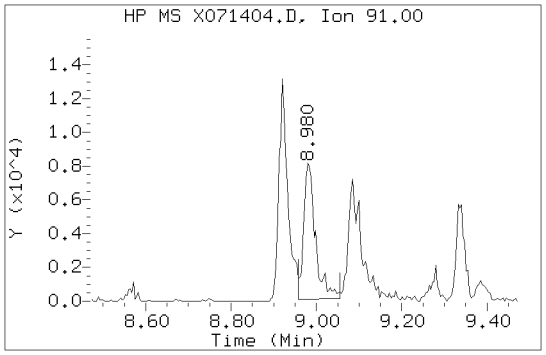
BEFORE

MASS
91
AREA
15937
HEIGHT
8082
20-Jul-2023
15:04
linh
pham



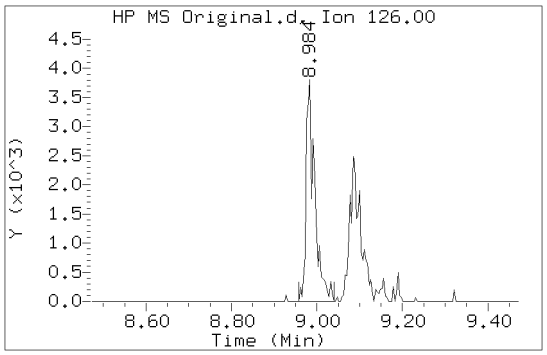
AFTER

MASS
91
AREA
15937
HEIGHT
8082
20-Jul-2023
15:04
linh
pham



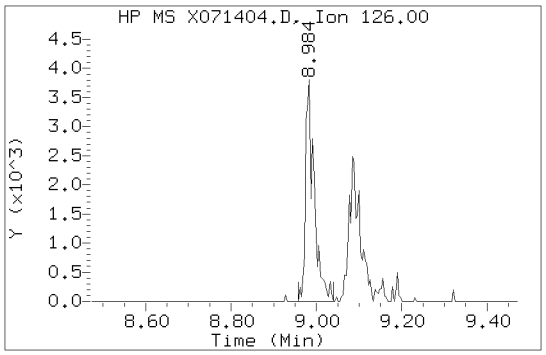
BEFORE

MASS
126
AREA
5351
HEIGHT
3805
20-Jul-2023
15:04
linh
pham



AFTER

MASS
126
AREA
5351
HEIGHT
3805
20-Jul-2023
15:04
linh
pham

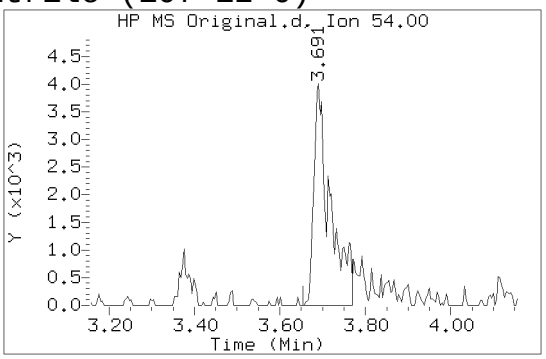


Data File : \\NAHSTWS005\Target\chem\voa6.i\X230714.b\X071404.D
Inj Date : 14-JUL-2023 13:02
InstruID : voa6.i
LabSampID : VSTD001

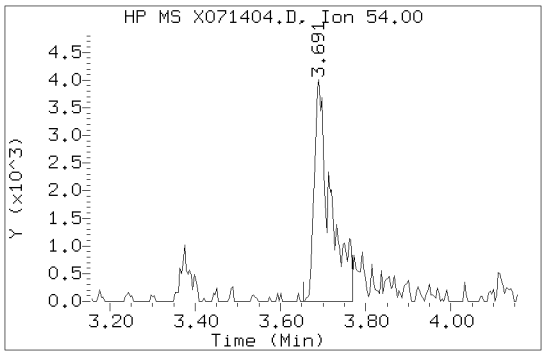
Propionitrile (107-12-0)

Reason Code:

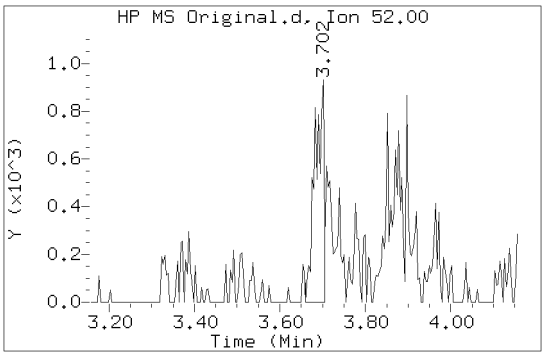
BEFORE
MASS
54
AREA
10495
HEIGHT
4008
20-Jul-2023
15:04
linh
pham



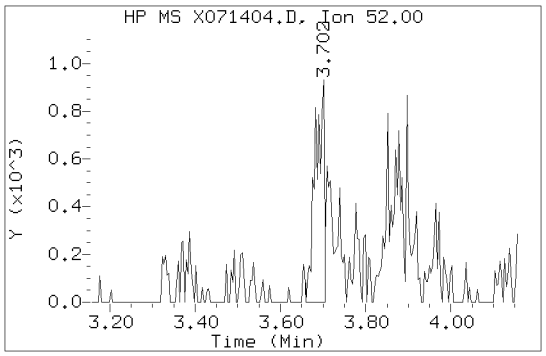
AFTER
MASS
54
AREA
10495
HEIGHT
4008
20-Jul-2023
15:04
linh
pham



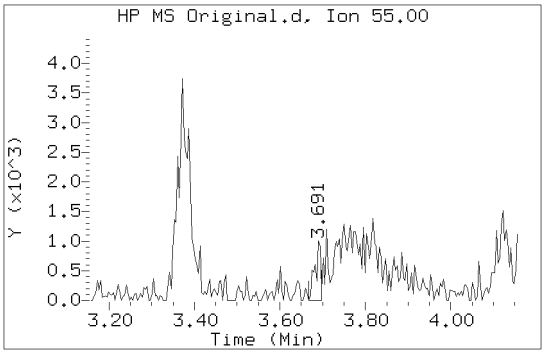
BEFORE
MASS
52
AREA
1356
HEIGHT
931
20-Jul-2023
15:04
linh
pham



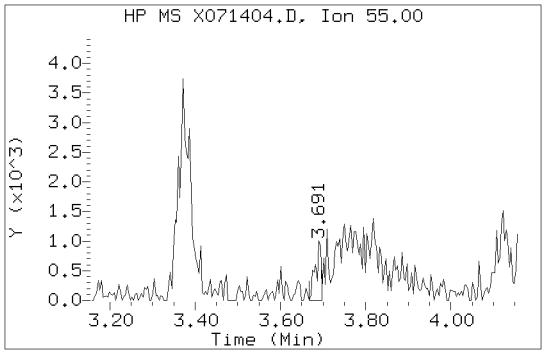
AFTER
MASS
52
AREA
1356
HEIGHT
931
20-Jul-2023
15:04
linh
pham



BEFORE
MASS
55
AREA
924
HEIGHT
1009
20-Jul-2023
15:04
linh
pham



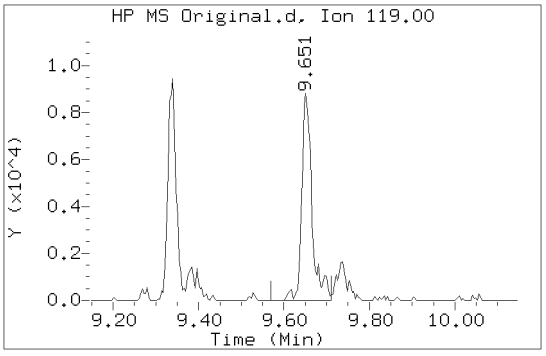
AFTER
MASS
55
AREA
924
HEIGHT
1009
20-Jul-2023
15:04
linh
pham



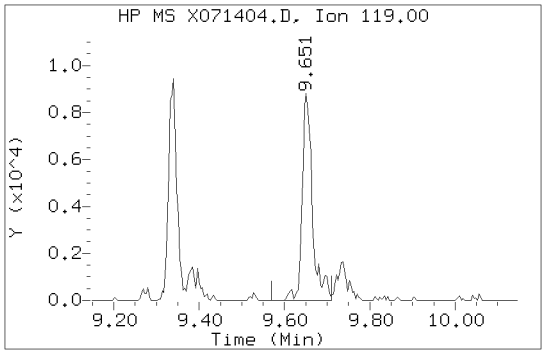
p-Isopropyltoluene (99-87-6)

Reason Code:

BEFORE
MASS
119
AREA
15092
HEIGHT
8813
20-Jul-2023
15:04
linh
pham



AFTER
MASS
119
AREA
15092
HEIGHT
8813
20-Jul-2023
15:04
linh
pham



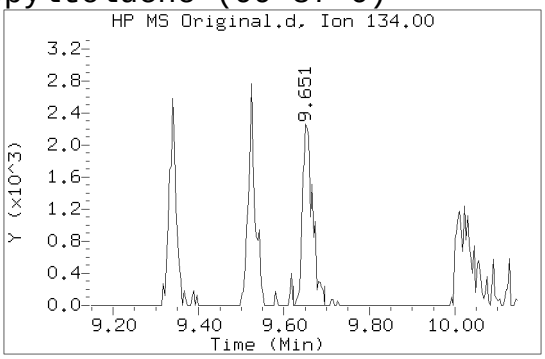
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230714.b\X071404.D
Inj Date : 14-JUL-2023 13:02
InstruID : voa6.i
LabSampID : VSTD001

p-Isopropyltoluene (99-87-6)

Reason Code:

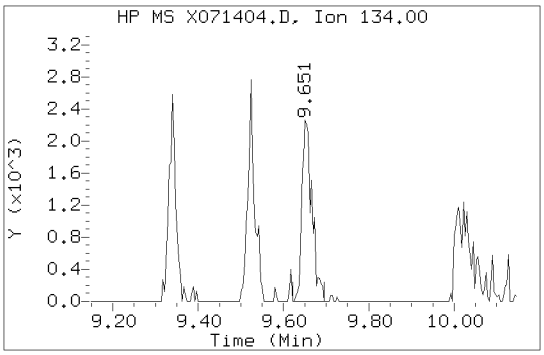
BEFORE

MASS
134
AREA
3764
HEIGHT
2261
20-Jul-2023
15:04
linh
pham



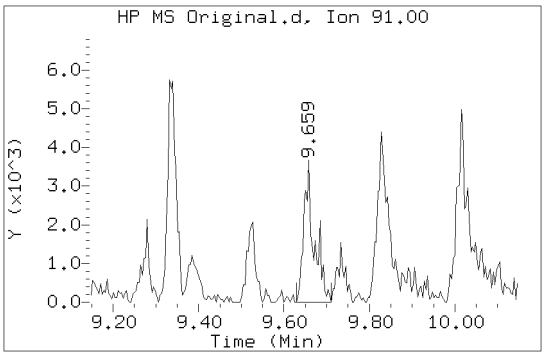
AFTER

MASS
134
AREA
3764
HEIGHT
2261
20-Jul-2023
15:04
linh
pham



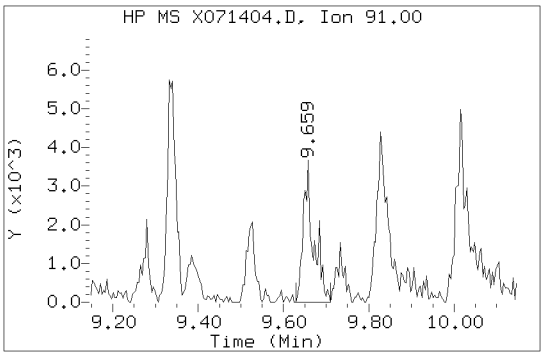
BEFORE

MASS
91
AREA
6124
HEIGHT
3669
20-Jul-2023
15:04
linh
pham



AFTER

MASS
91
AREA
6124
HEIGHT
3669
20-Jul-2023
15:04
linh
pham

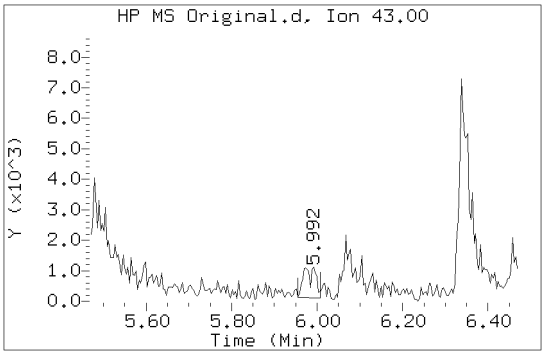


2-Nitropropane (79-46-9)

Reason Code:

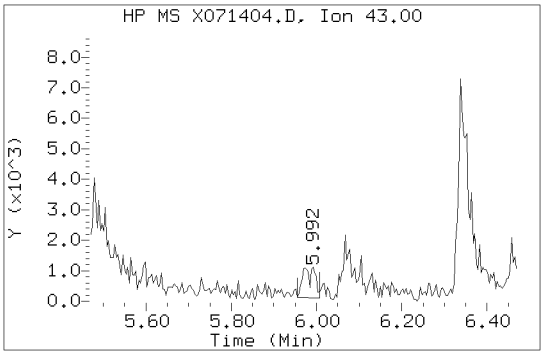
BEFORE

MASS
43
AREA
2054
HEIGHT
1008
20-Jul-2023
15:04
linh
pham



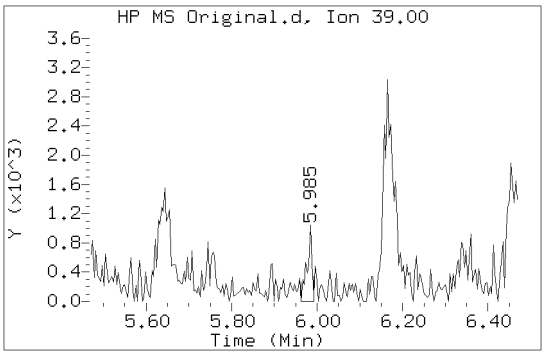
AFTER

MASS
43
AREA
2054
HEIGHT
1008
20-Jul-2023
15:04
linh
pham



BEFORE

MASS
39
AREA
807
HEIGHT
1040
20-Jul-2023
15:04
linh
pham



AFTER

MASS
39
AREA
807
HEIGHT
1040
20-Jul-2023
15:04
linh
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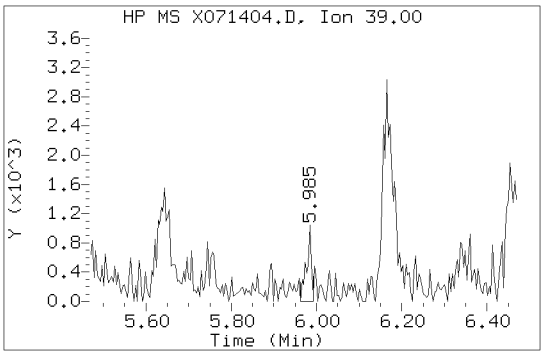

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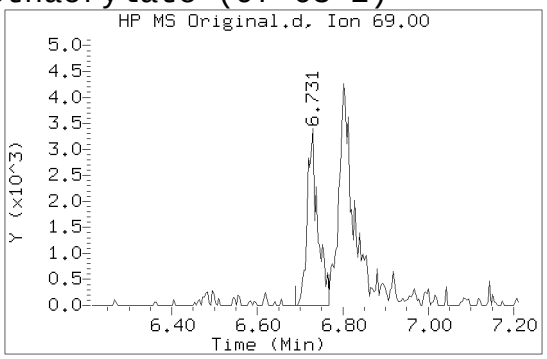
Inj Date : 14-JUL-2023 13:02
InstruID : voa6.i
LabSampID : VSTD001

Ethyl Methacrylate (97-63-2)

Reason Code:

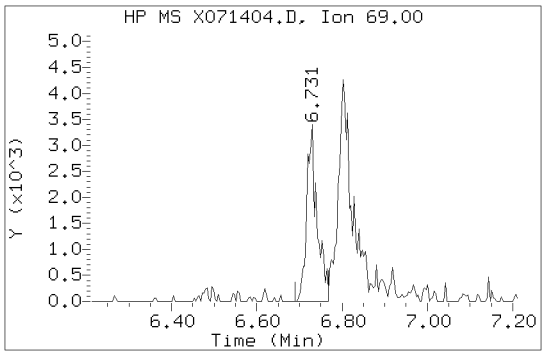
BEFORE

MASS
69
AREA
5749
HEIGHT
3399
20-Jul-2023
15:04
linh
pham



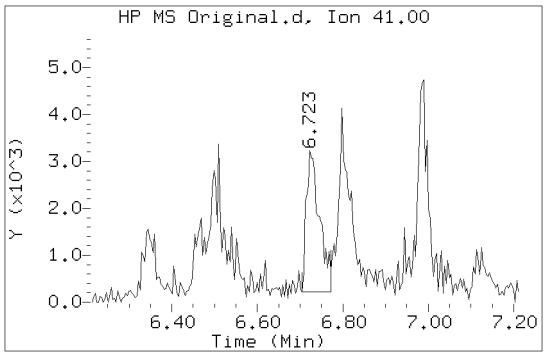
AFTER

MASS
69
AREA
5749
HEIGHT
3399
20-Jul-2023
15:04
linh
pham



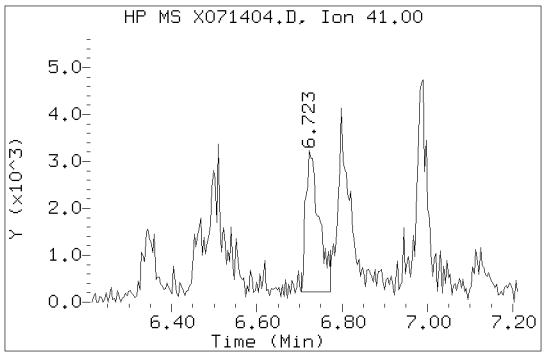
BEFORE

MASS
41
AREA
6505
HEIGHT
3006
20-Jul-2023
15:04
linh
pham



AFTER

MASS
41
AREA
6505
HEIGHT
3006
20-Jul-2023
15:04
linh
pham

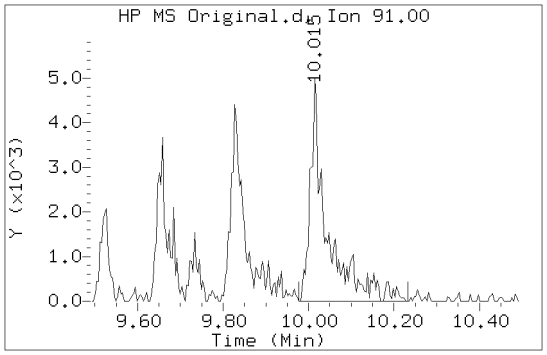


n-Butylbenzene (104-51-8)

Reason Code:

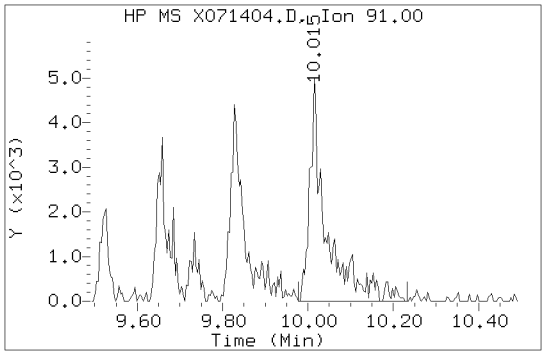
BEFORE

MASS
91
AREA
13321
HEIGHT
4981
20-Jul-2023
15:04
linh
pham



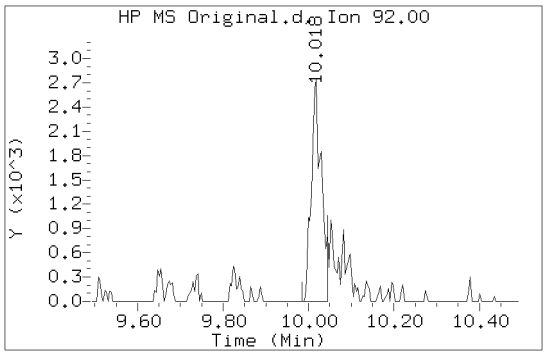
AFTER

MASS
91
AREA
13321
HEIGHT
4981
20-Jul-2023
15:04
linh
pham



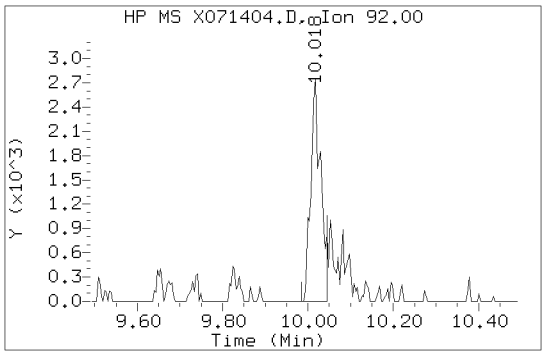
BEFORE

MASS
92
AREA
4505
HEIGHT
2738
20-Jul-2023
15:04
linh
pham



AFTER

MASS
92
AREA
4505
HEIGHT
2738
20-Jul-2023
15:04
linh
pham



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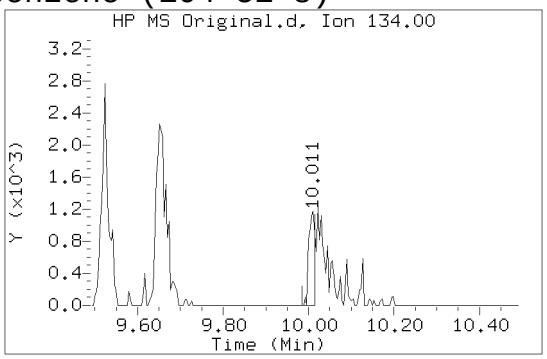
Inj Date : 14-JUL-2023 13:02
InstruID : voa6.i
LabSampID : VSTD001

n-Butylbenzene (104-51-8)

BEFORE

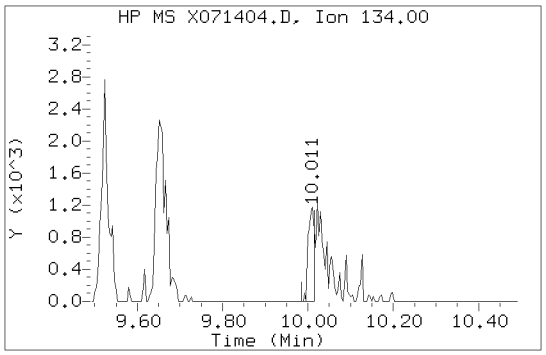
MASS
134
AREA
1125
HEIGHT
1172
20-Jul-2023
15:04
linh
pham



Reason Code:

AFTER

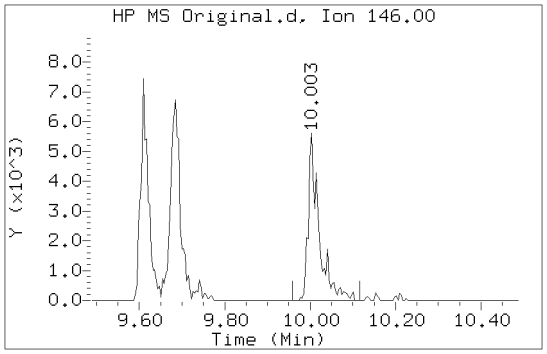
MASS
134
AREA
1125
HEIGHT
1172
20-Jul-2023
15:04
linh
pham



1,2-Dichlorobenzene (95-50-1)

BEFORE

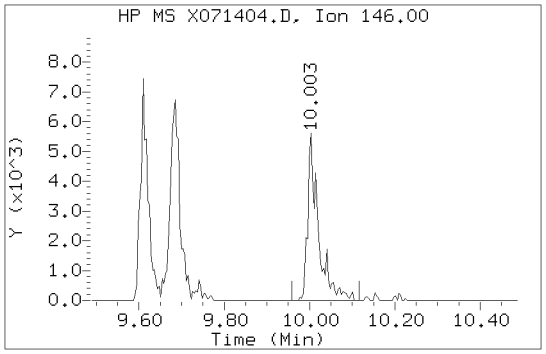
MASS
146
AREA
9791
HEIGHT
5614
20-Jul-2023
15:04
linh
pham



Reason Code:

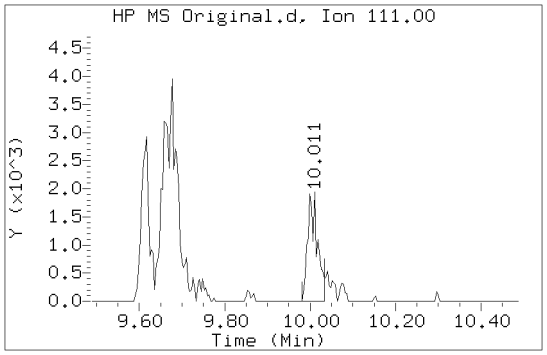
AFTER

MASS
146
AREA
9791
HEIGHT
5614
20-Jul-2023
15:04
linh
pham



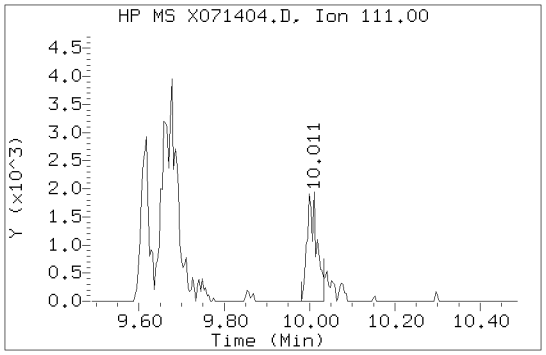
BEFORE

MASS
111
AREA
3070
HEIGHT
1939
20-Jul-2023
15:04
linh
pham



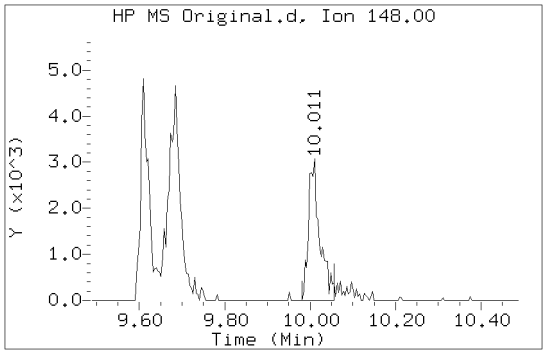
AFTER

MASS
111
AREA
3070
HEIGHT
1939
20-Jul-2023
15:04
linh
pham



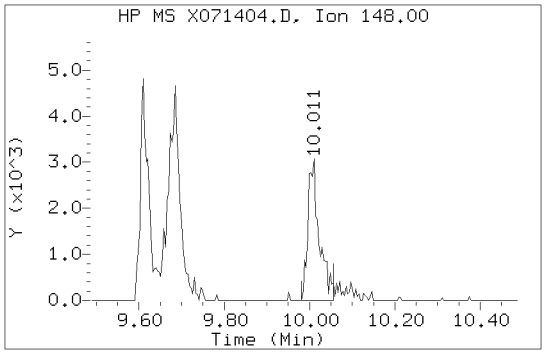
BEFORE

MASS
148
AREA
5707
HEIGHT
3072
20-Jul-2023
15:04
linh
pham



AFTER

MASS
148
AREA
5707
HEIGHT
3072
20-Jul-2023
15:04
linh
pham



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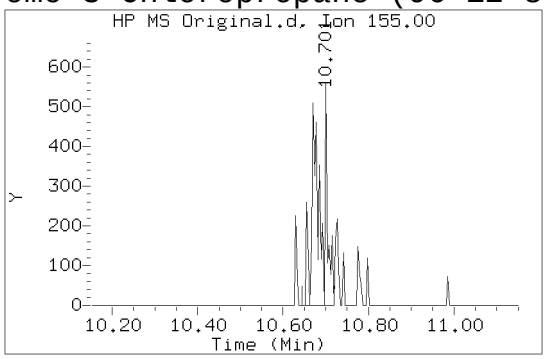
Inj Date : 14-JUL-2023 13:02
InstruID : voa6.i
LabSampID : VSTD001

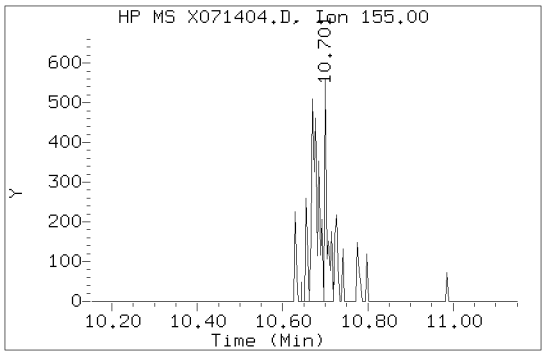
1,2-Dibromo-3-Chloropropane (96-12-8)

Reason Code:

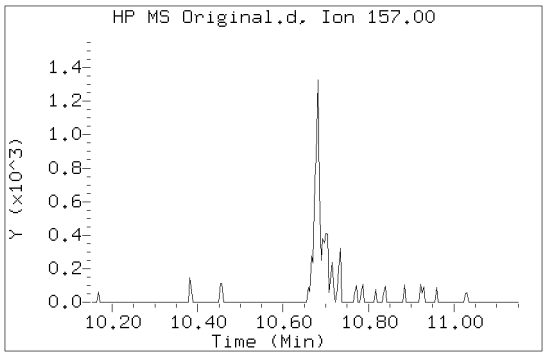
BEFORE
MASS
155
AREA
831
HEIGHT
558
20-Jul-2023
15:04
linh
pham



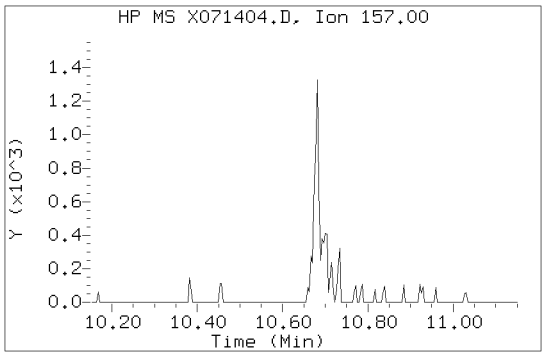
AFTER
MASS
155
AREA
831
HEIGHT
558
20-Jul-2023
15:04
linh
pham



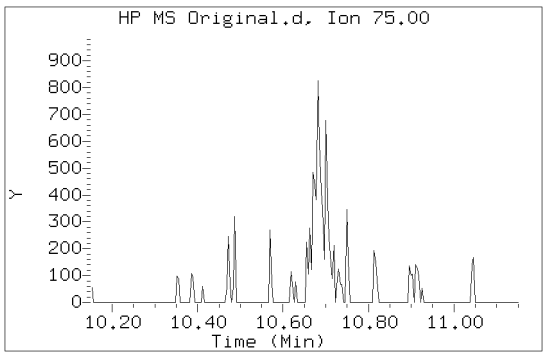
BEFORE
MASS
157
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham



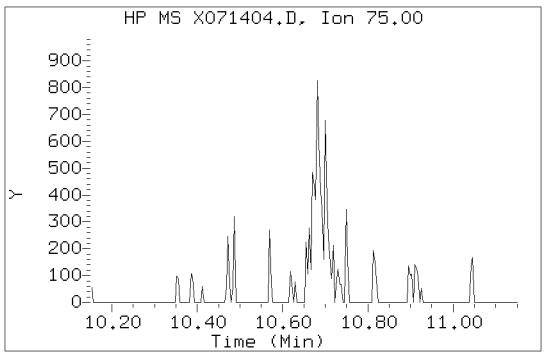
AFTER
MASS
157
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham



BEFORE
MASS
75
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham



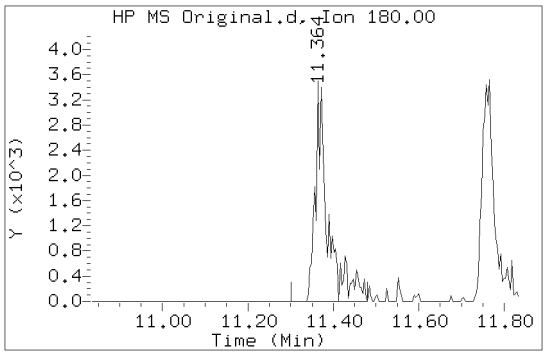
AFTER
MASS
75
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham



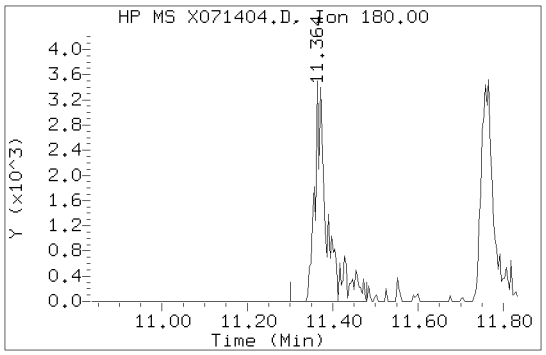
1,2,4-Trichlorobenzene (120-82-1)

Reason Code:

BEFORE
MASS
180
AREA
7113
HEIGHT
3499
20-Jul-2023
15:04
linh
pham



AFTER
MASS
180
AREA
7113
HEIGHT
3499
20-Jul-2023
15:04
linh
pham



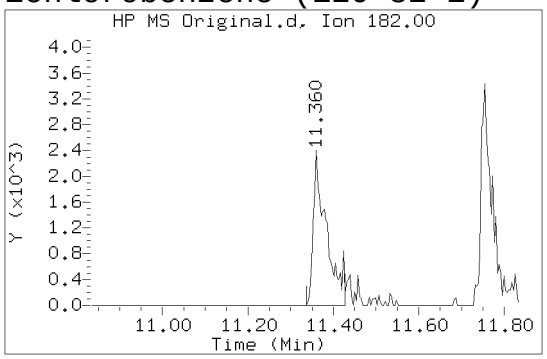
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230714.b\X071404.D
Inj Date : 14-JUL-2023 13:02
InstruID : voa6.i
LabSampID : VSTD001

1,2,4-Trichlorobenzene (120-82-1)

Reason Code:

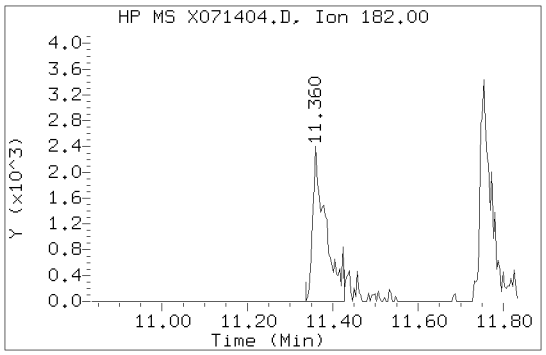
BEFORE

MASS
182
AREA
5066
HEIGHT
2401
20-Jul-2023
15:04
linh
pham



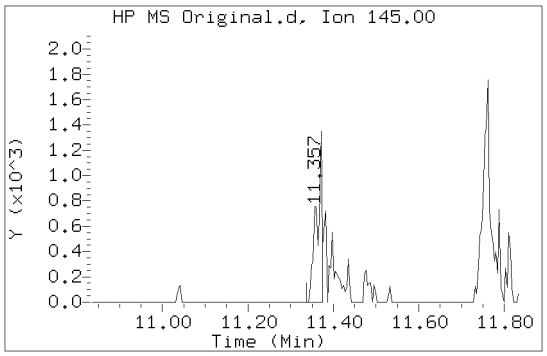
AFTER

MASS
182
AREA
5066
HEIGHT
2401
20-Jul-2023
15:04
linh
pham



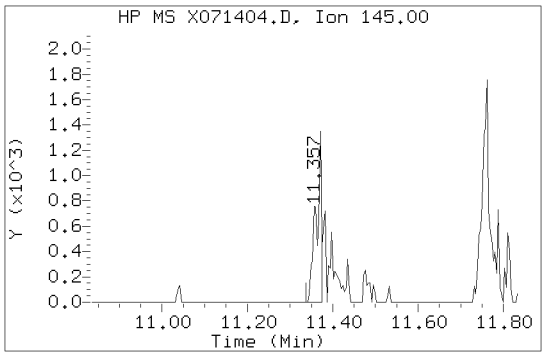
BEFORE

MASS
145
AREA
1146
HEIGHT
757
20-Jul-2023
15:04
linh
pham



AFTER

MASS
145
AREA
1146
HEIGHT
757
20-Jul-2023
15:04
linh
pham

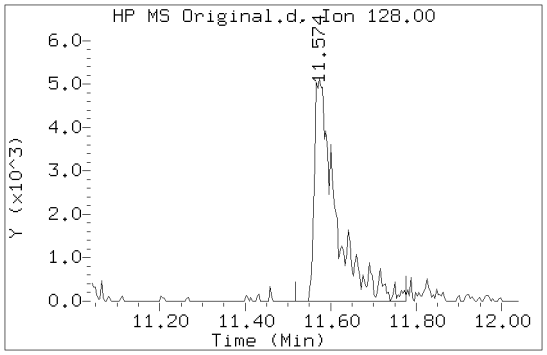


Naphthalene (91-20-3)

Reason Code:

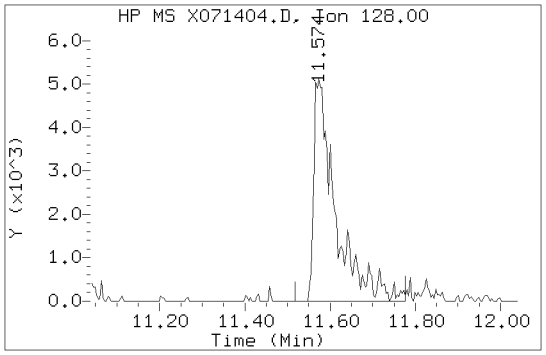
BEFORE

MASS
128
AREA
18131
HEIGHT
5123
20-Jul-2023
15:04
linh
pham



AFTER

MASS
128
AREA
18131
HEIGHT
5123
20-Jul-2023
15:04
linh
pham

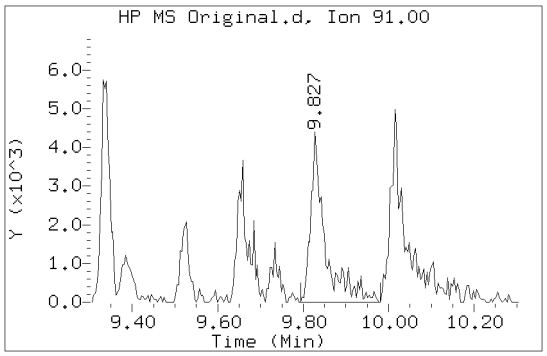


Benzyl Chloride (100-44-7)

Reason Code:

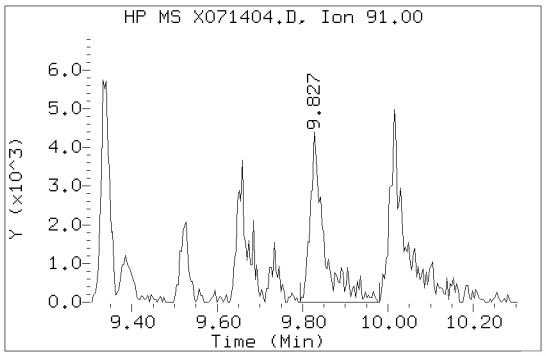
BEFORE

MASS
91
AREA
10259
HEIGHT
4403
20-Jul-2023
15:04
linh
pham



AFTER

MASS
91
AREA
10259
HEIGHT
4403
20-Jul-2023
15:04
linh
pham



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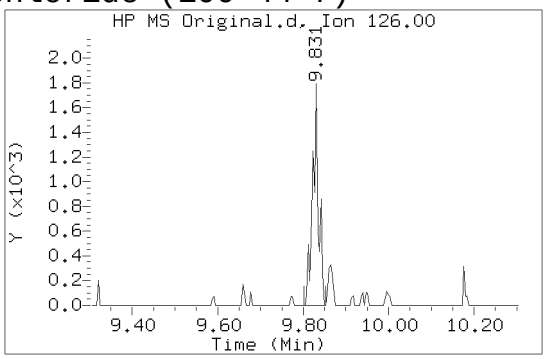
Inj Date : 14-JUL-2023 13:02
InstruID : voa6.i
LabSampID : VSTD001

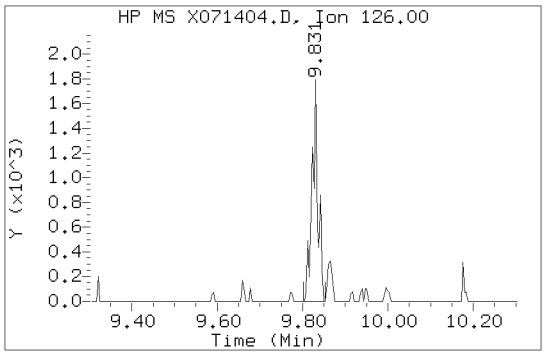
Benzyl Chloride (100-44-7)

Reason Code:

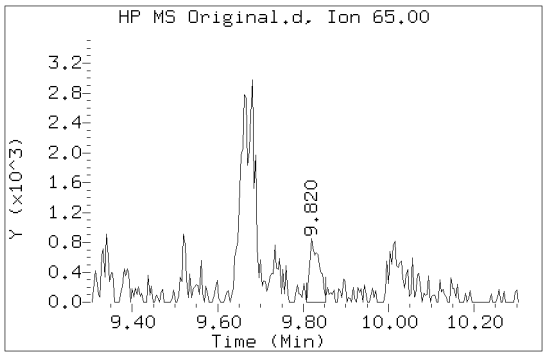
BEFORE
MASS
126
AREA
1709
HEIGHT
1793
20-Jul-2023
15:04
linh
pham



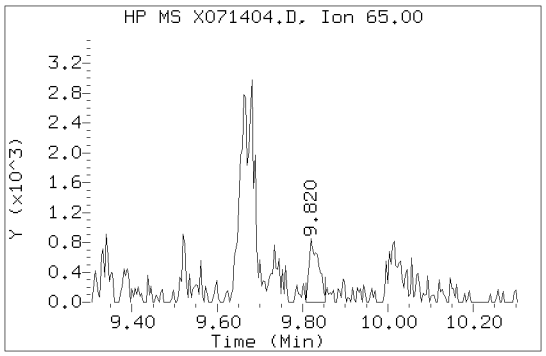
AFTER
MASS
126
AREA
1709
HEIGHT
1793
20-Jul-2023
15:04
linh
pham



BEFORE
MASS
65
AREA
1300
HEIGHT
848
20-Jul-2023
15:04
linh
pham



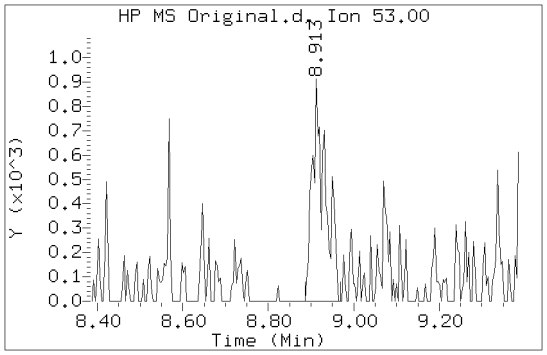
AFTER
MASS
65
AREA
1300
HEIGHT
848
20-Jul-2023
15:04
linh
pham



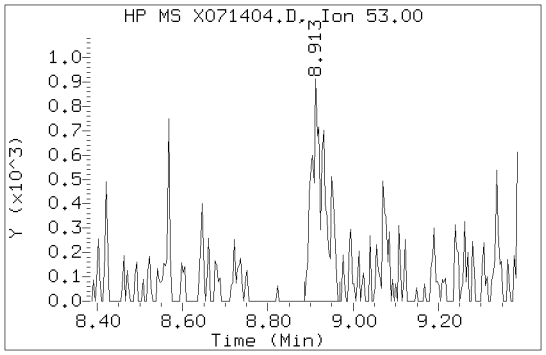
trans-1,4-Dichloro-2-butene (110-57-6)

Reason Code:

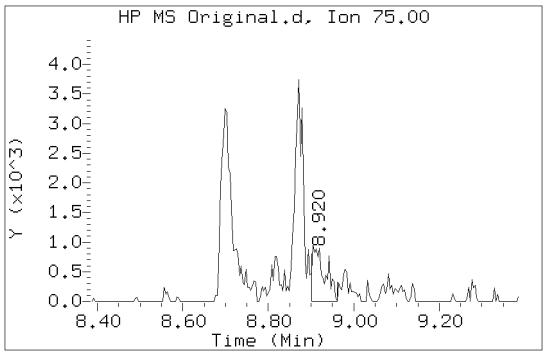
BEFORE
MASS
53
AREA
1951
HEIGHT
913
20-Jul-2023
15:04
linh
pham



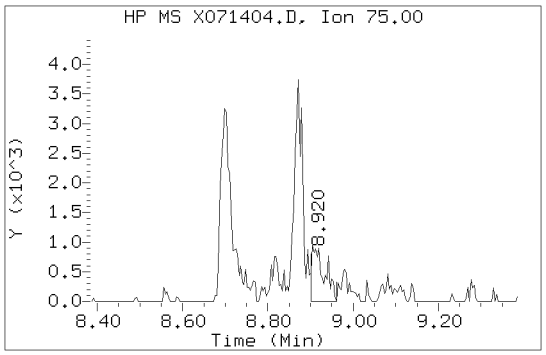
AFTER
MASS
53
AREA
1951
HEIGHT
913
20-Jul-2023
15:04
linh
pham



BEFORE
MASS
75
AREA
1917
HEIGHT
902
20-Jul-2023
15:04
linh
pham



AFTER
MASS
75
AREA
1917
HEIGHT
902
20-Jul-2023
15:04
linh
pham



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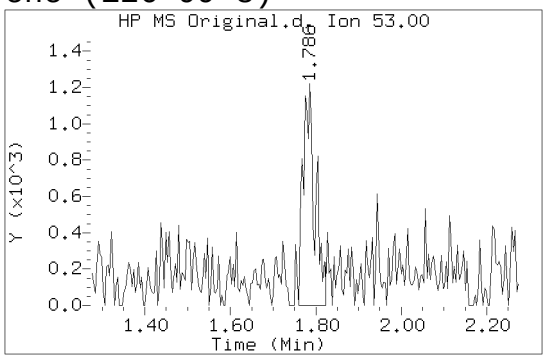
Inj Date : 14-JUL-2023 13:02
InstruID : voa6.i
LabSampID : VSTD001

Chloroprene (126-99-8)

Reason Code:

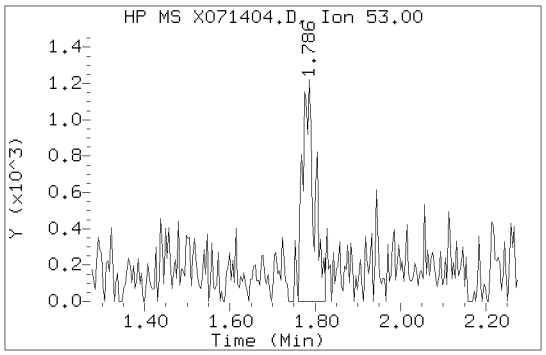
BEFORE

MASS
53
AREA
2402
HEIGHT
1221
20-Jul-2023
15:04
linh
pham



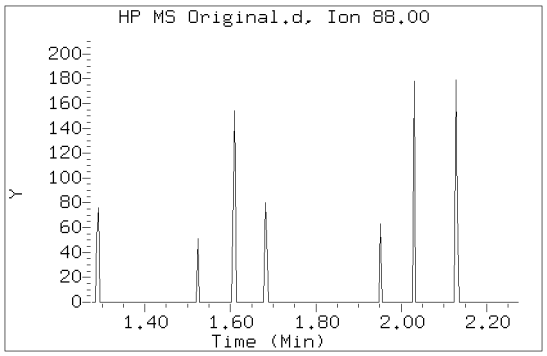
AFTER

MASS
53
AREA
2402
HEIGHT
1221
20-Jul-2023
15:04
linh
pham



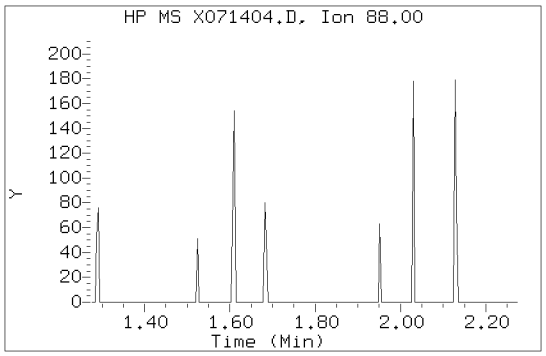
BEFORE

MASS
88
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham



AFTER

MASS
88
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham

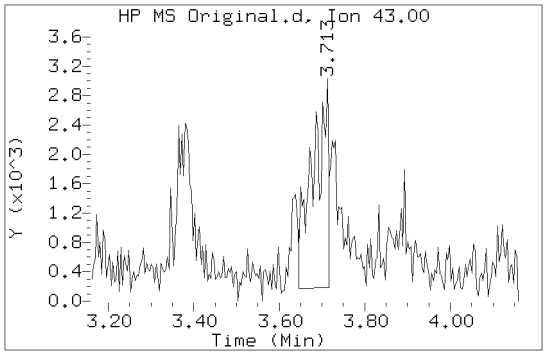


Ethyl Acetate (141-78-6)

Reason Code:

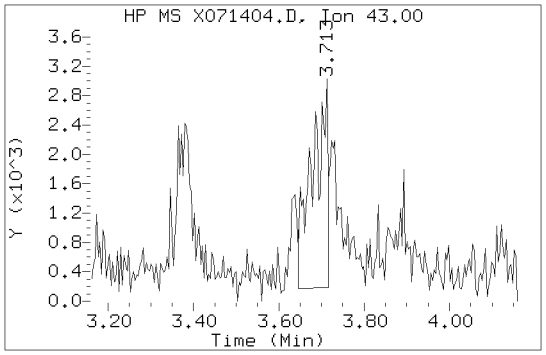
BEFORE

MASS
43
AREA
7207
HEIGHT
2844
20-Jul-2023
15:04
linh
pham



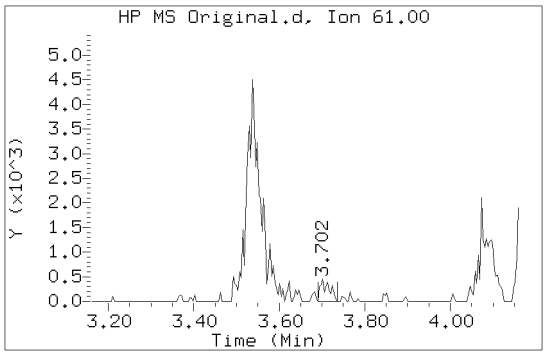
AFTER

MASS
43
AREA
7207
HEIGHT
2844
20-Jul-2023
15:04
linh
pham



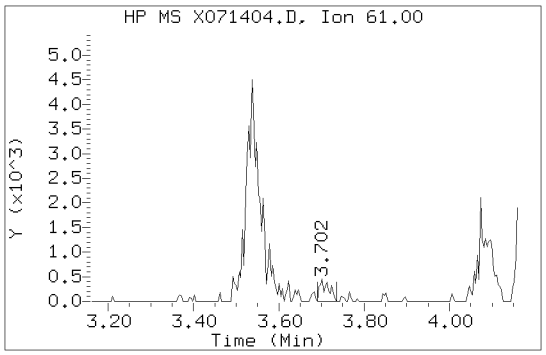
BEFORE

MASS
61
AREA
652
HEIGHT
462
20-Jul-2023
15:04
linh
pham



AFTER

MASS
61
AREA
652
HEIGHT
462
20-Jul-2023
15:04
linh
pham



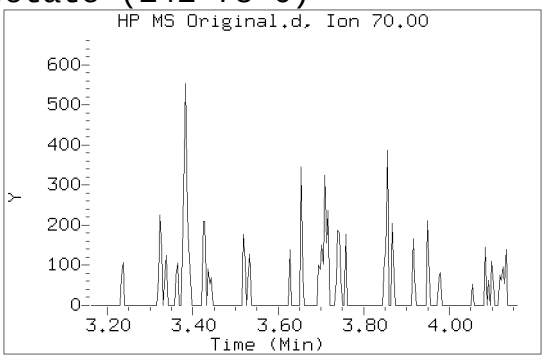
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230714.b\X071404.D
Inj Date : 14-JUL-2023 13:02
InstruID : voa6.i
LabSampID : VSTD001

Ethyl Acetate (141-78-6)

Reason Code:

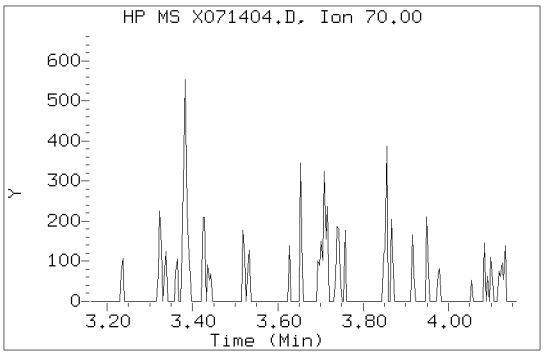
BEFORE

MASS
70
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham



AFTER

MASS
70
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham

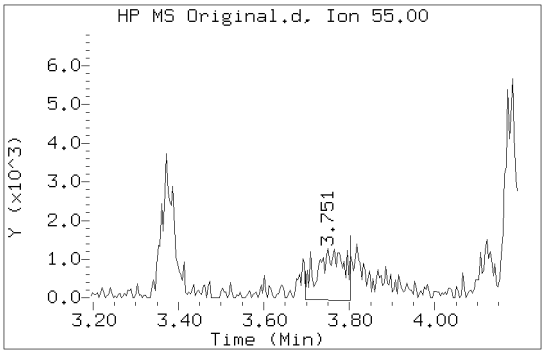


Methyl Acrylate (96-33-3)

Reason Code:

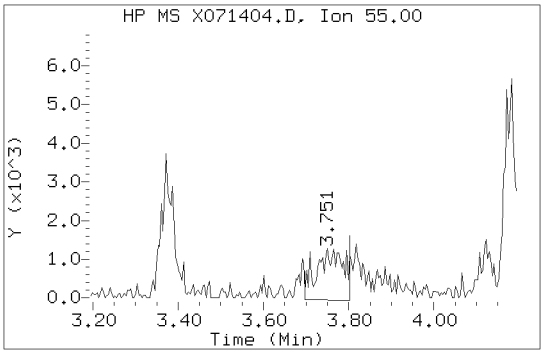
BEFORE

MASS
55
AREA
5778
HEIGHT
1338
20-Jul-2023
15:04
linh
pham



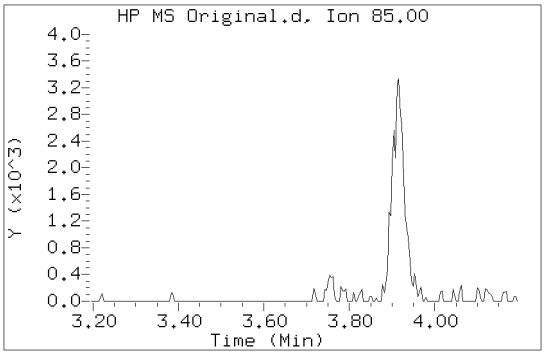
AFTER

MASS
55
AREA
5778
HEIGHT
1338
20-Jul-2023
15:04
linh
pham



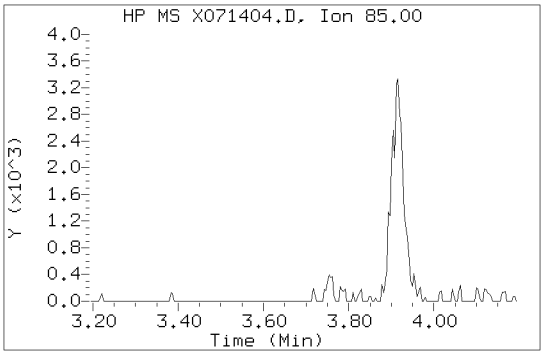
BEFORE

MASS
85
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham



AFTER

MASS
85
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham

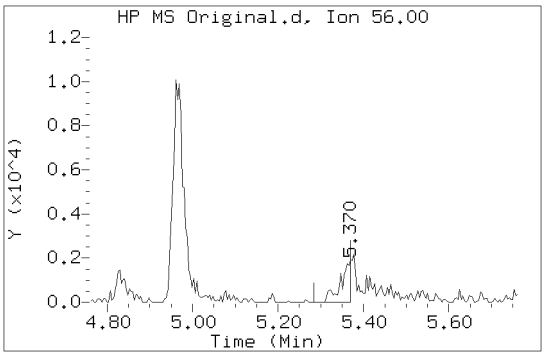


n-Butanol (71-36-3)

Reason Code:

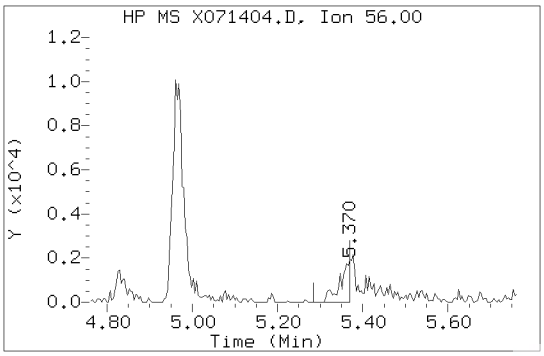
BEFORE

MASS
56
AREA
3103
HEIGHT
1929
20-Jul-2023
15:04
linh
pham



AFTER

MASS
56
AREA
3103
HEIGHT
1929
20-Jul-2023
15:04
linh
pham



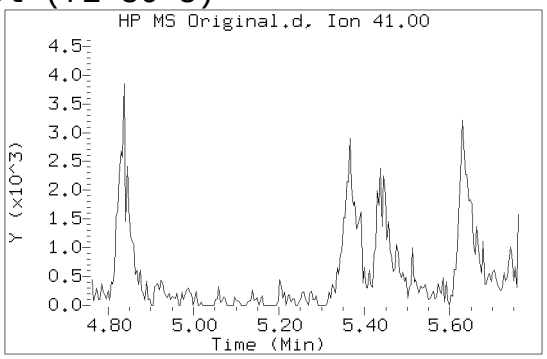
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230714.b\X071404.D
Inj Date : 14-JUL-2023 13:02
InstruID : voa6.i
LabSampID : VSTD001

n-Butanol (71-36-3)

Reason Code:

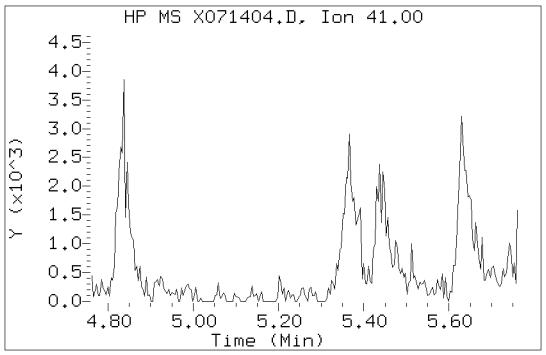
BEFORE

MASS
41
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham



AFTER

MASS
41
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham

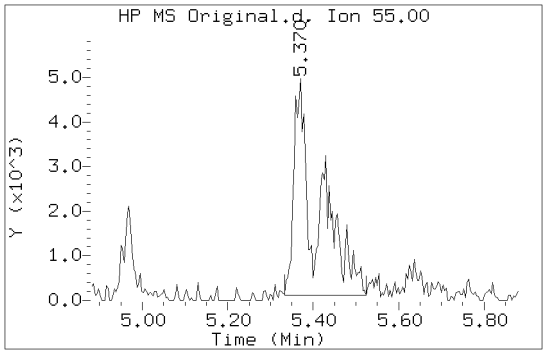


Ethyl Acrylate (140-88-5)

Reason Code:

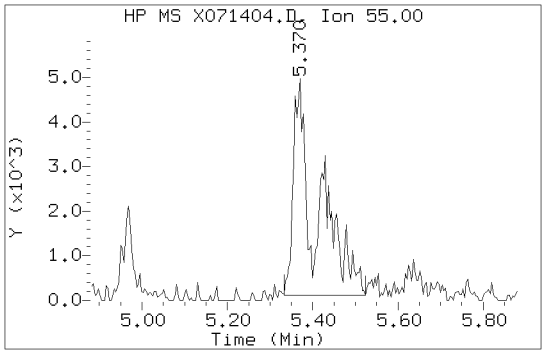
BEFORE

MASS
55
AREA
18196
HEIGHT
4857
20-Jul-2023
15:04
linh
pham



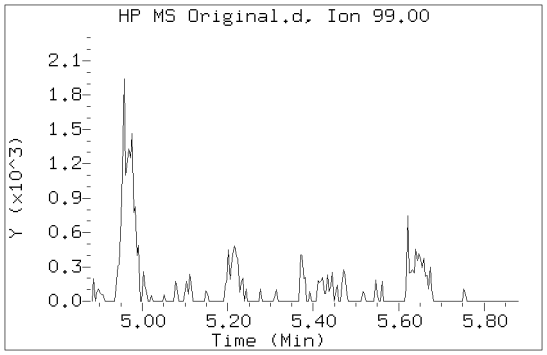
AFTER

MASS
55
AREA
18196
HEIGHT
4857
20-Jul-2023
15:04
linh
pham



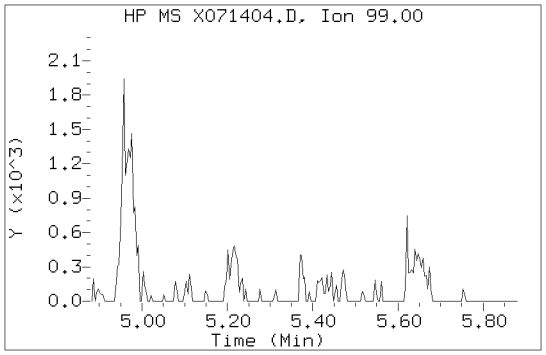
BEFORE

MASS
99
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham



AFTER

MASS
99
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham

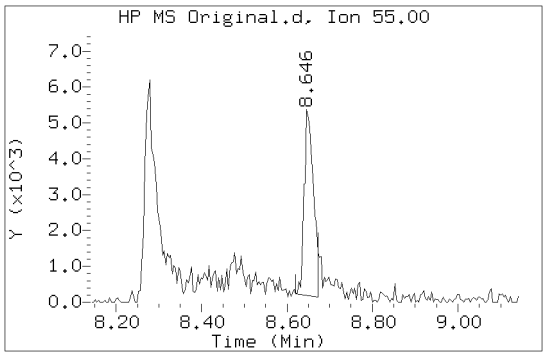


Cyclohexanone (108-94-1)

Reason Code:

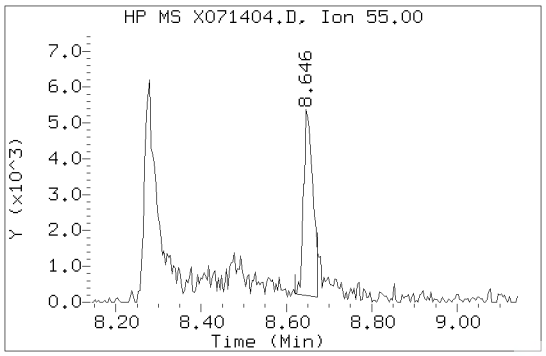
BEFORE

MASS
55
AREA
7972
HEIGHT
5194
20-Jul-2023
15:04
linh
pham



AFTER

MASS
55
AREA
7972
HEIGHT
5194
20-Jul-2023
15:04
linh
pham



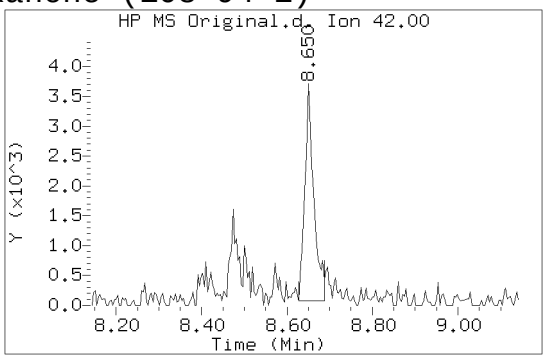
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230714.b\X071404.D
Inj Date : 14-JUL-2023 13:02
InstruID : voa6.i
LabSampID : VSTD001

Cyclohexanone (108-94-1)

Reason Code:

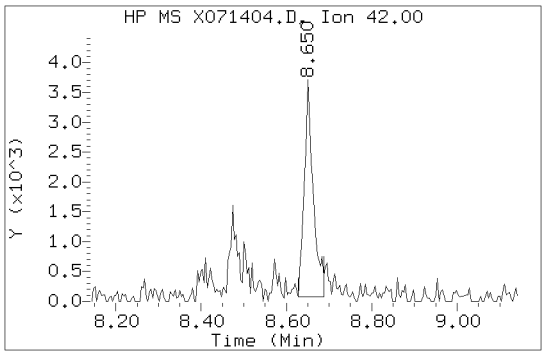
BEFORE

MASS
42
AREA
5392
HEIGHT
3640
20-Jul-2023
15:04
linh
pham



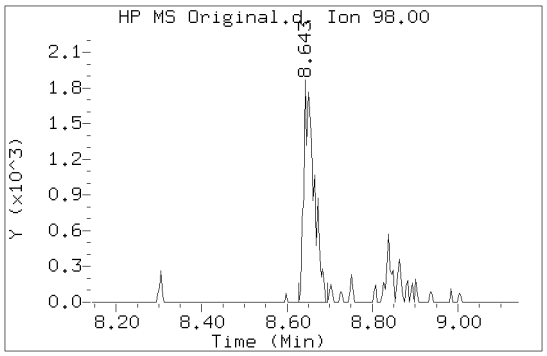
AFTER

MASS
42
AREA
5392
HEIGHT
3640
20-Jul-2023
15:04
linh
pham



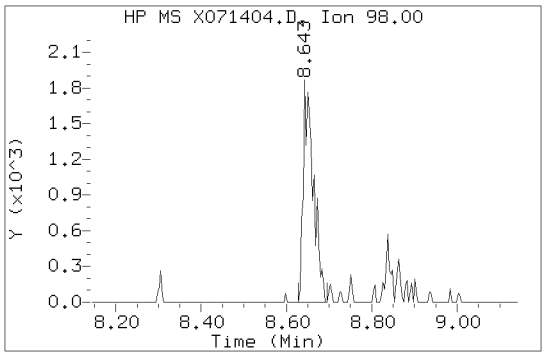
BEFORE

MASS
98
AREA
3142
HEIGHT
1869
20-Jul-2023
15:04
linh
pham



AFTER

MASS
98
AREA
3142
HEIGHT
1869
20-Jul-2023
15:04
linh
pham

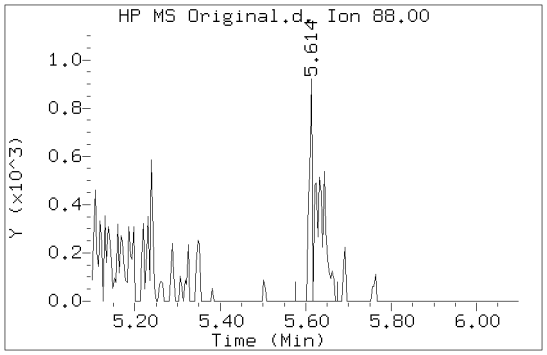


1,4-Dioxane ()

Reason Code:

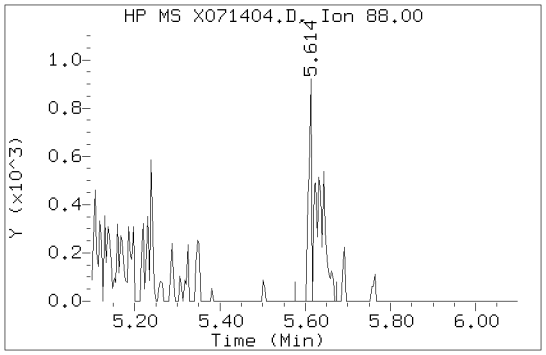
BEFORE

MASS
88
AREA
1290
HEIGHT
921
20-Jul-2023
15:04
linh
pham



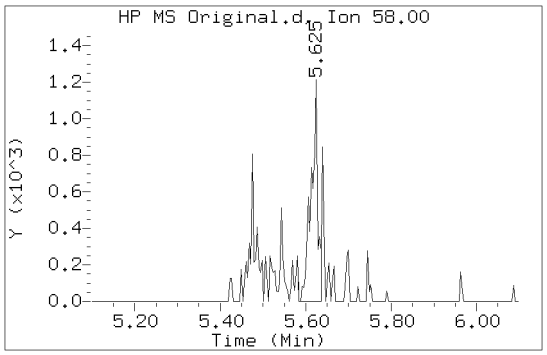
AFTER

MASS
88
AREA
1290
HEIGHT
921
20-Jul-2023
15:04
linh
pham



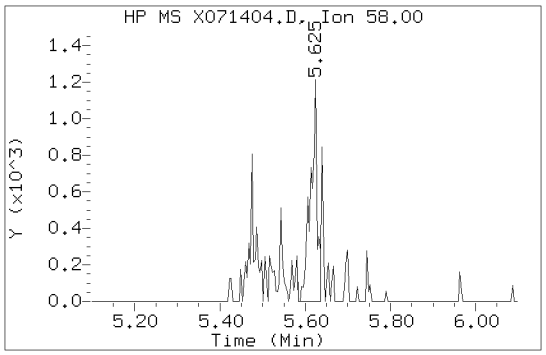
BEFORE

MASS
58
AREA
1310
HEIGHT
1214
20-Jul-2023
15:04
linh
pham



AFTER

MASS
58
AREA
1310
HEIGHT
1214
20-Jul-2023
15:04
linh
pham

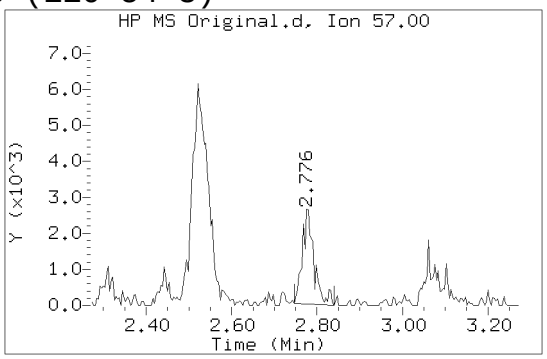


Data File : \\NAHSTWS005\Target\chem\voa6.i\X230714.b\X071404.D
Inj Date : 14-JUL-2023 13:02
InstruID : voa6.i
LabSampID : VSTD001

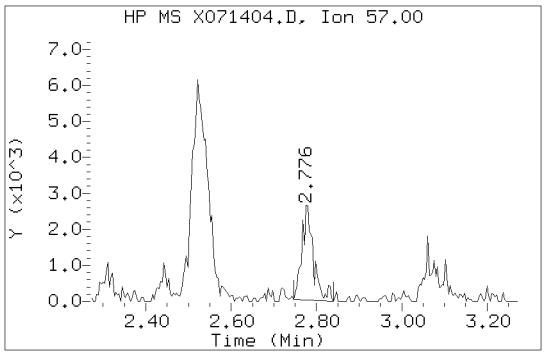
n-Hexane (110-54-3)

Reason Code:

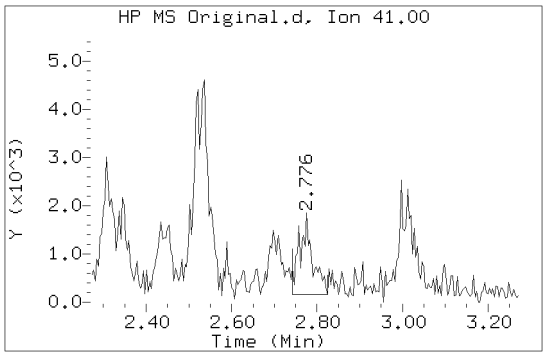
BEFORE
MASS
57
AREA
5000
HEIGHT
2629
20-Jul-2023
15:04
linh
pham



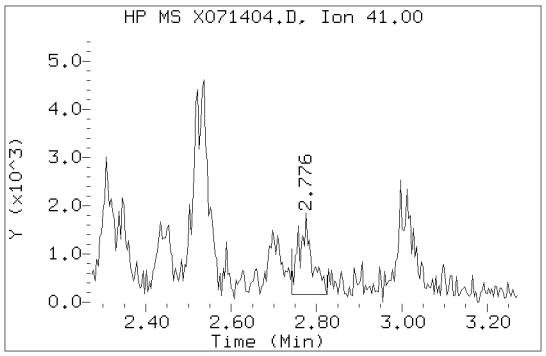
AFTER
MASS
57
AREA
5000
HEIGHT
2629
20-Jul-2023
15:04
linh
pham



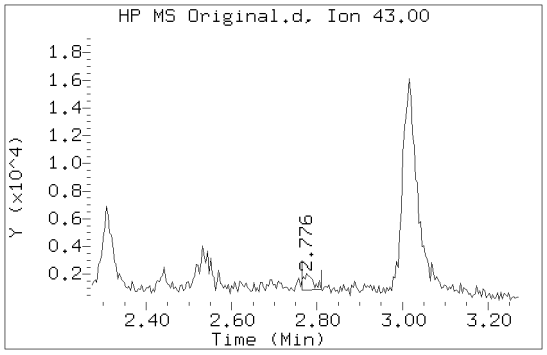
BEFORE
MASS
41
AREA
3569
HEIGHT
1692
20-Jul-2023
15:04
linh
pham



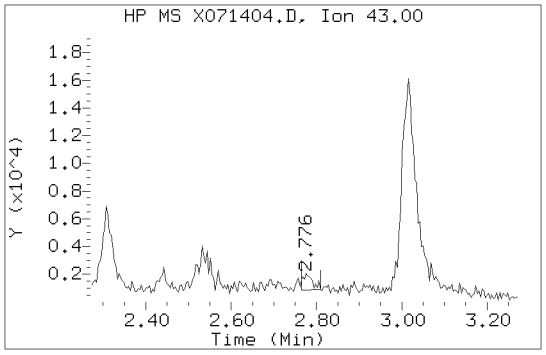
AFTER
MASS
41
AREA
3569
HEIGHT
1692
20-Jul-2023
15:04
linh
pham



BEFORE
MASS
43
AREA
1865
HEIGHT
1174
20-Jul-2023
15:04
linh
pham



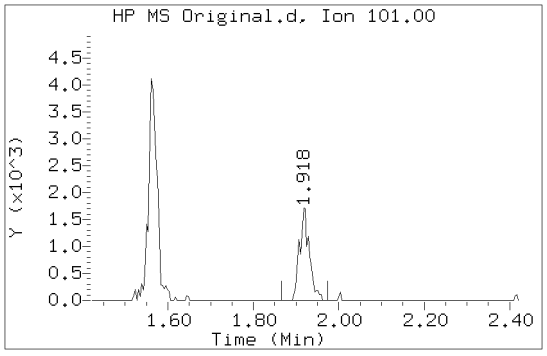
AFTER
MASS
43
AREA
1865
HEIGHT
1174
20-Jul-2023
15:04
linh
pham



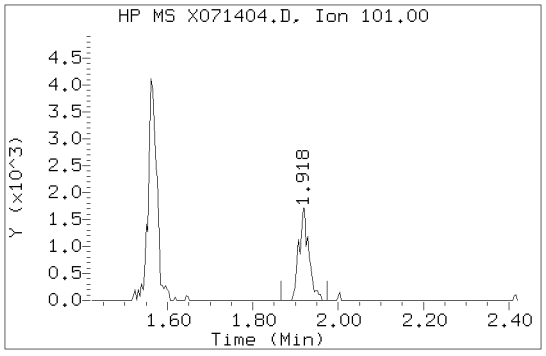
Freon TF (76-13-1)

Reason Code:

BEFORE
MASS
101
AREA
2818
HEIGHT
1714
20-Jul-2023
15:04
linh
pham



AFTER
MASS
101
AREA
2818
HEIGHT
1714
20-Jul-2023
15:04
linh
pham

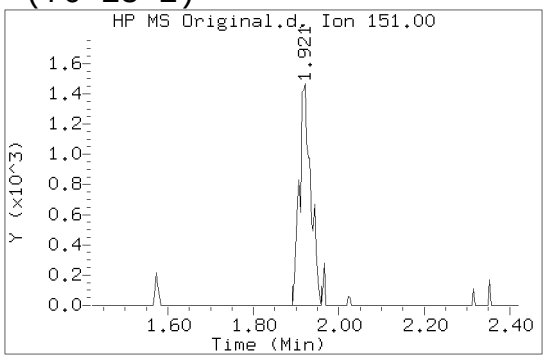


Data File : \\NAHSTWS005\Target\chem\voa6.i\X230714.b\X071404.D
Inj Date : 14-JUL-2023 13:02
InstruID : voa6.i
LabSampID : VSTD001

Freon TF (76-13-1)

BEFORE

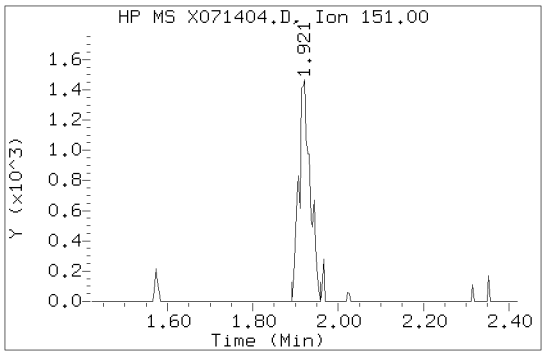
MASS
151
AREA
2770
HEIGHT
1467
20-Jul-2023
15:04
linh
pham



Reason Code:

AFTER

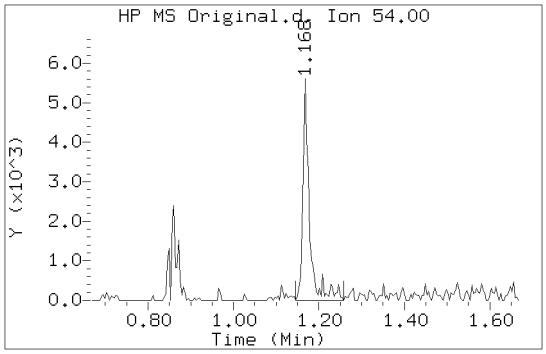
MASS
151
AREA
2770
HEIGHT
1467
20-Jul-2023
15:04
linh
pham



1,3-Butadiene (106-99-0)

BEFORE

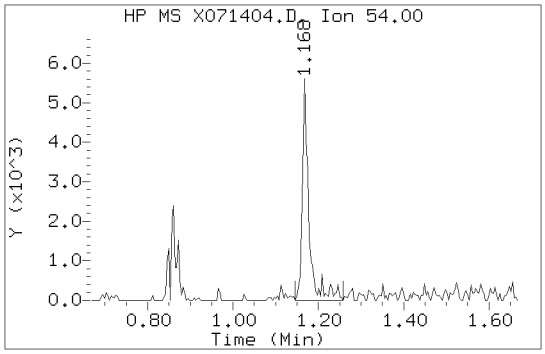
MASS
54
AREA
6040
HEIGHT
5609
20-Jul-2023
15:04
linh
pham



Reason Code:

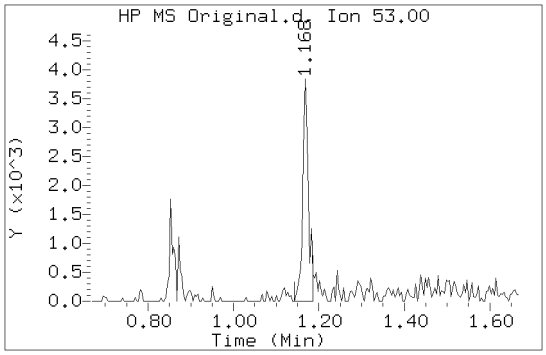
AFTER

MASS
54
AREA
6040
HEIGHT
5609
20-Jul-2023
15:04
linh
pham



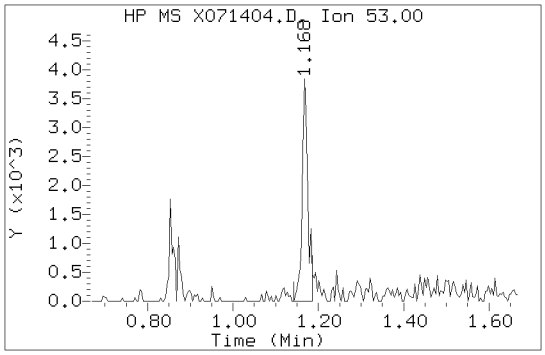
BEFORE

MASS
53
AREA
3632
HEIGHT
3843
20-Jul-2023
15:04
linh
pham



AFTER

MASS
53
AREA
3632
HEIGHT
3843
20-Jul-2023
15:04
linh
pham

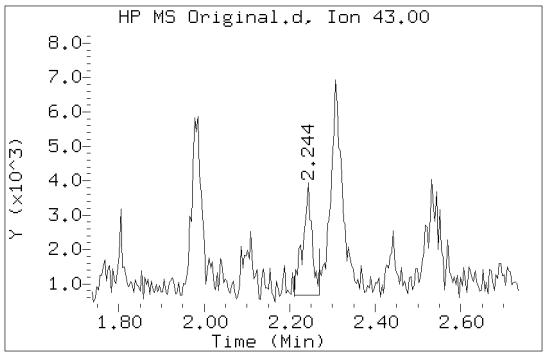


Methyl acetate (79-20-9)

Reason Code:

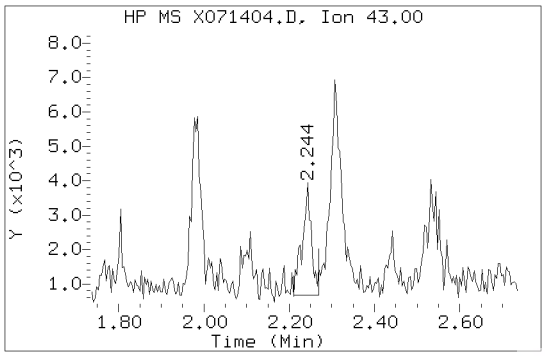
BEFORE

MASS
43
AREA
4992
HEIGHT
3260
20-Jul-2023
15:04
linh
pham



AFTER

MASS
43
AREA
4992
HEIGHT
3260
20-Jul-2023
15:04
linh
pham

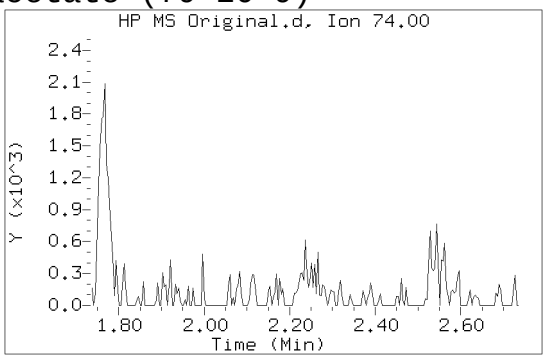


Data File : \\NAHSTWS005\Target\chem\voa6.i\X230714.b\X071404.D
Inj Date : 14-JUL-2023 13:02
InstruID : voa6.i
LabSampID : VSTD001

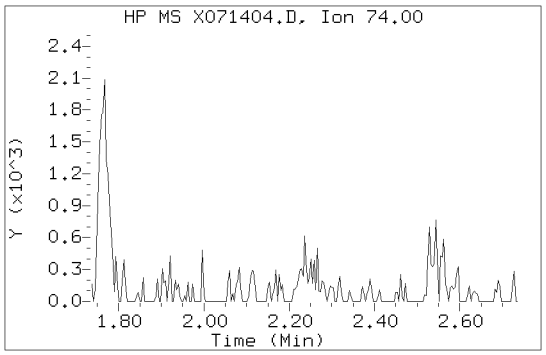
Methyl acetate (79-20-9)

Reason Code:

BEFORE
MASS
74
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham



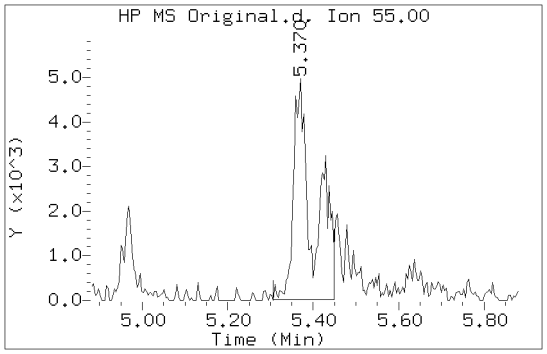
AFTER
MASS
74
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham



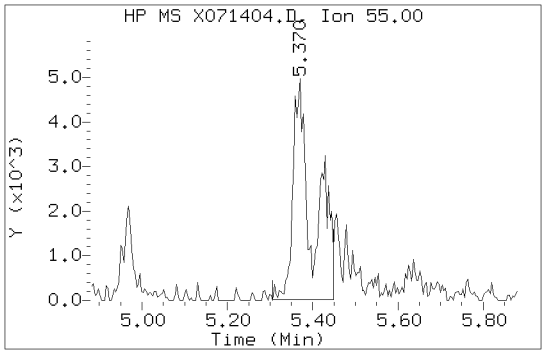
Methylcyclohexane (108-87-2)

Reason Code:

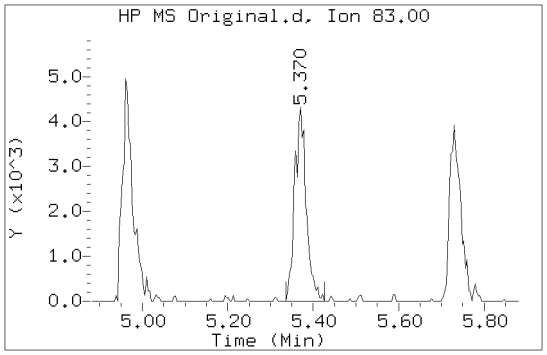
BEFORE
MASS
55
AREA
15783
HEIGHT
4958
20-Jul-2023
15:04
linh
pham



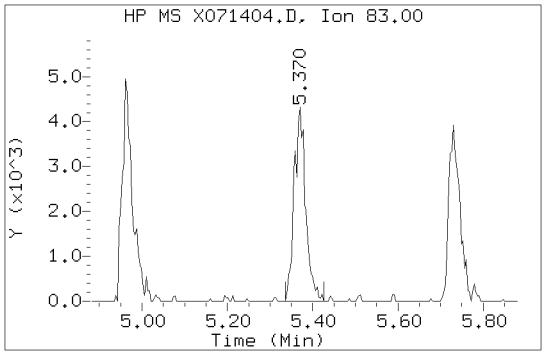
AFTER
MASS
55
AREA
15783
HEIGHT
4958
20-Jul-2023
15:04
linh
pham



BEFORE
MASS
83
AREA
8157
HEIGHT
4322
20-Jul-2023
15:04
linh
pham



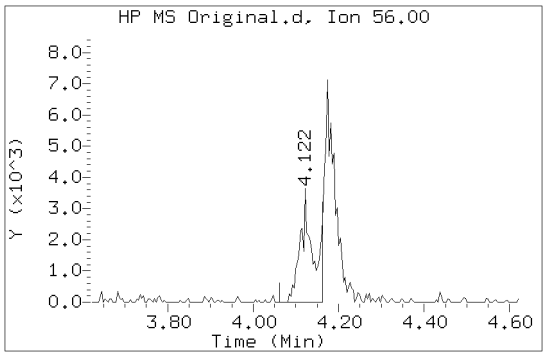
AFTER
MASS
83
AREA
8157
HEIGHT
4322
20-Jul-2023
15:04
linh
pham



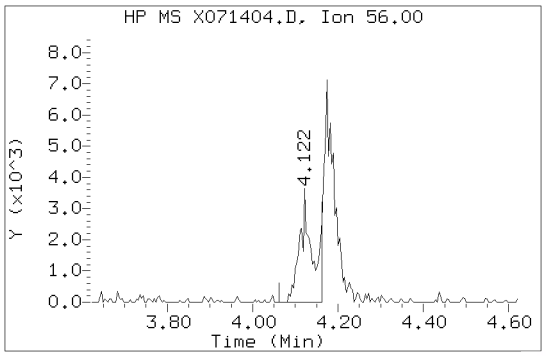
Cyclohexane (110-82-7)

Reason Code:

BEFORE
MASS
56
AREA
7673
HEIGHT
3640
20-Jul-2023
15:04
linh
pham



AFTER
MASS
56
AREA
7673
HEIGHT
3640
20-Jul-2023
15:04
linh
pham

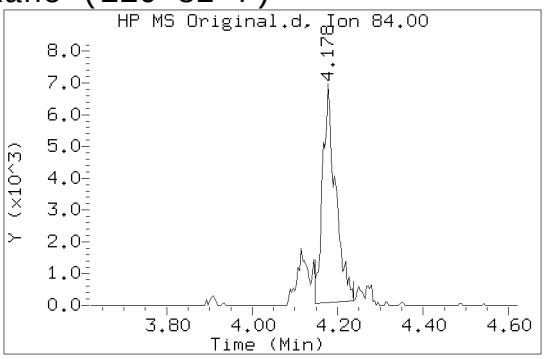


Data File : \\NAHSTWS005\Target\chem\voa6.i\X230714.b\X071404.D
Inj Date : 14-JUL-2023 13:02
InstruID : voa6.i
LabSampID : VSTD001

Cyclohexane (110-82-7)

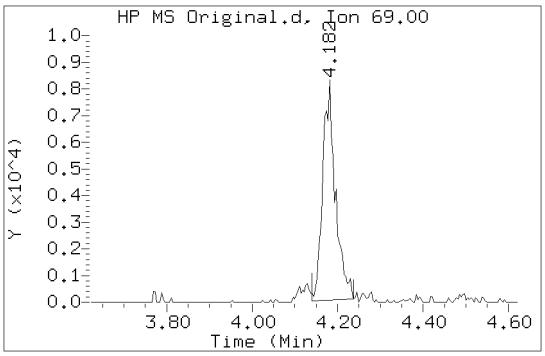
BEFORE

MASS
84
AREA
14444
HEIGHT
6891
20-Jul-2023
15:04
linh
pham



BEFORE

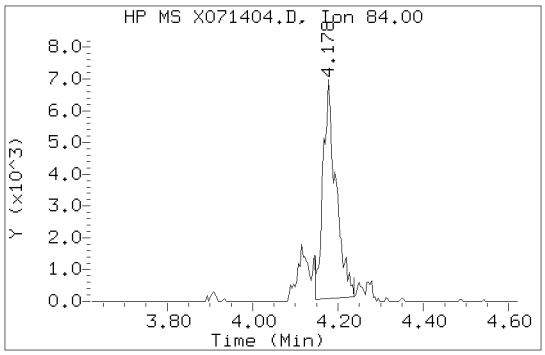
MASS
69
AREA
16995
HEIGHT
8270
20-Jul-2023
15:04
linh
pham



Reason Code:

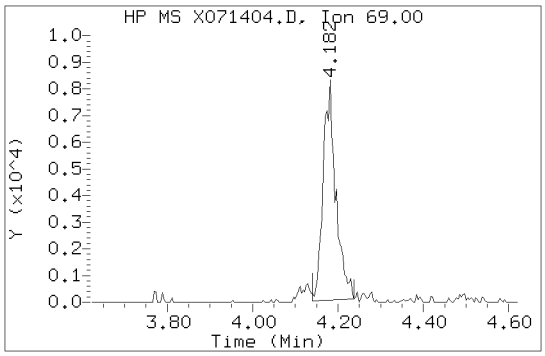
AFTER

MASS
84
AREA
14444
HEIGHT
6891
20-Jul-2023
15:04
linh
pham



AFTER

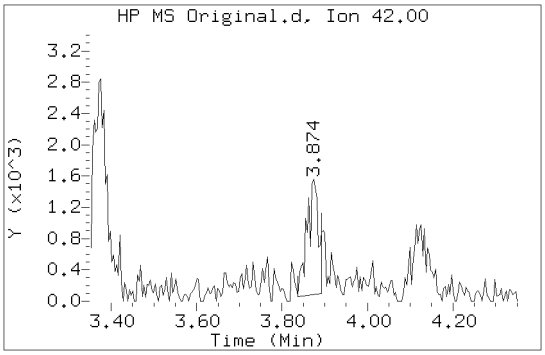
MASS
69
AREA
16995
HEIGHT
8270
20-Jul-2023
15:04
linh
pham



Tetrahydrofuran (109-99-9)

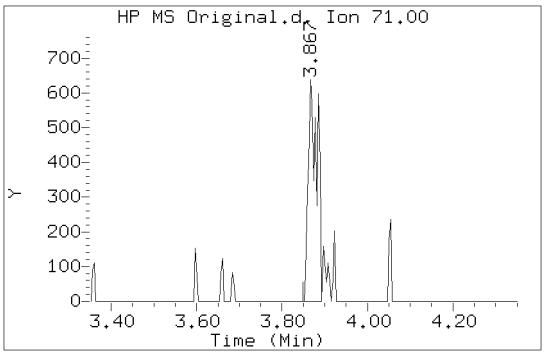
BEFORE

MASS
42
AREA
2815
HEIGHT
1476
20-Jul-2023
15:04
linh
pham



BEFORE

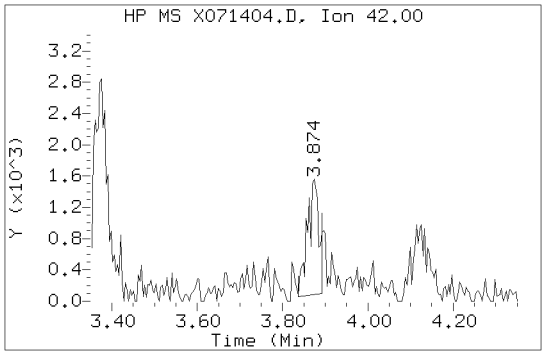
MASS
71
AREA
933
HEIGHT
638
20-Jul-2023
15:04
linh
pham



Reason Code:

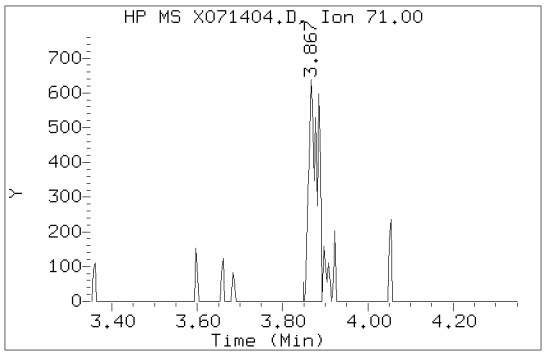
AFTER

MASS
42
AREA
2815
HEIGHT
1476
20-Jul-2023
15:04
linh
pham



AFTER

MASS
71
AREA
933
HEIGHT
638
20-Jul-2023
15:04
linh
pham



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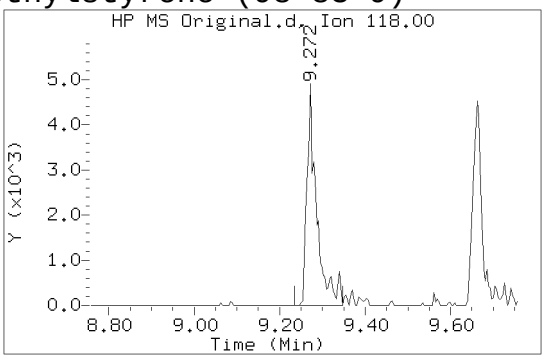
Inj Date : 14-JUL-2023 13:02
InstruID : voa6.i
LabSampID : VSTD001

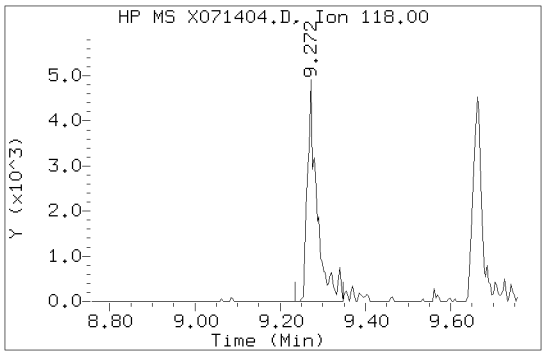
alpha-Methylstyrene (98-83-9)

Reason Code:

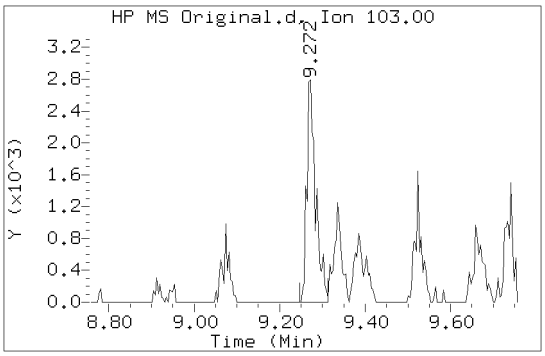
BEFORE
MASS
118
AREA
7755
HEIGHT
4913
20-Jul-2023
15:04
linh
pham



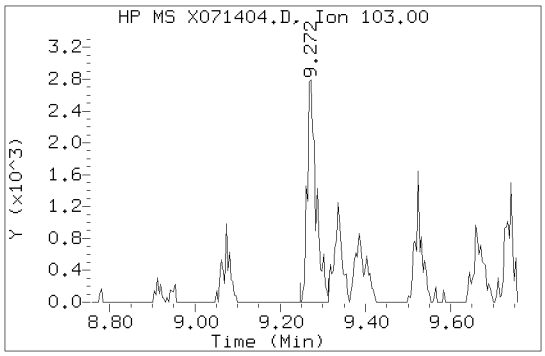
AFTER
MASS
118
AREA
7755
HEIGHT
4913
20-Jul-2023
15:04
linh
pham



BEFORE
MASS
103
AREA
4028
HEIGHT
2790
20-Jul-2023
15:04
linh
pham



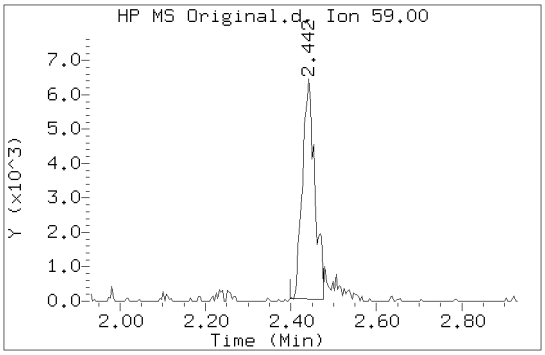
AFTER
MASS
103
AREA
4028
HEIGHT
2790
20-Jul-2023
15:04
linh
pham



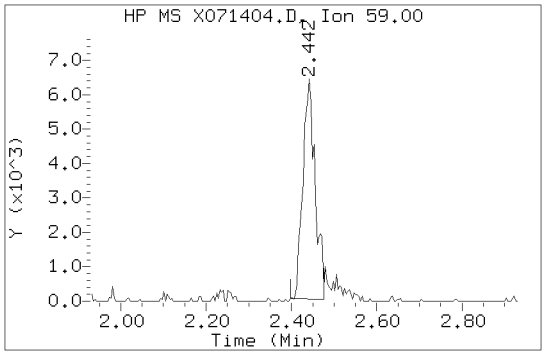
Tert-butyl alcohol (75-65-0)

Reason Code:

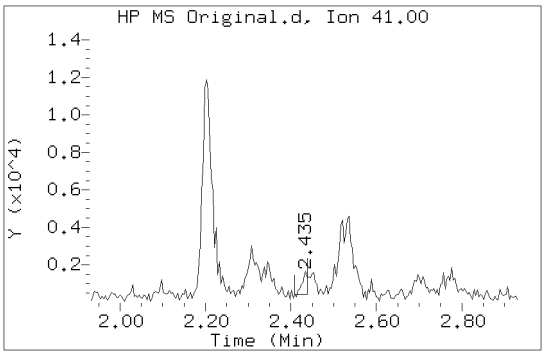
BEFORE
MASS
59
AREA
12965
HEIGHT
6400
20-Jul-2023
15:04
linh
pham



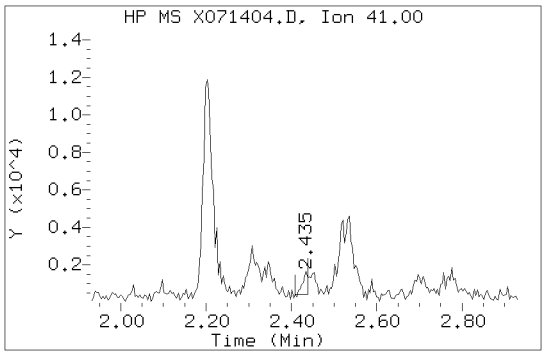
AFTER
MASS
59
AREA
12965
HEIGHT
6400
20-Jul-2023
15:04
linh
pham



BEFORE
MASS
41
AREA
1041
HEIGHT
1246
20-Jul-2023
15:04
linh
pham



AFTER
MASS
41
AREA
1041
HEIGHT
1246
20-Jul-2023
15:04
linh
pham



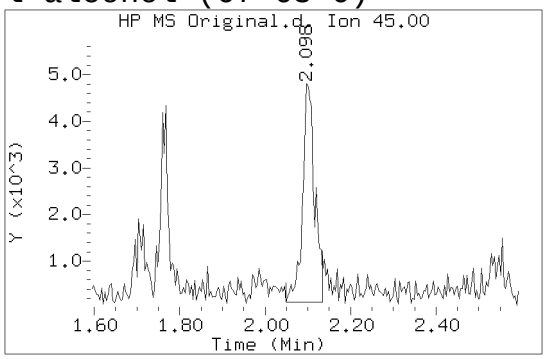
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230714.b\X071404.D
Inj Date : 14-JUL-2023 13:02
InstruID : voa6.i
LabSampID : VSTD001

Isopropyl alcohol (67-63-0)

Reason Code:

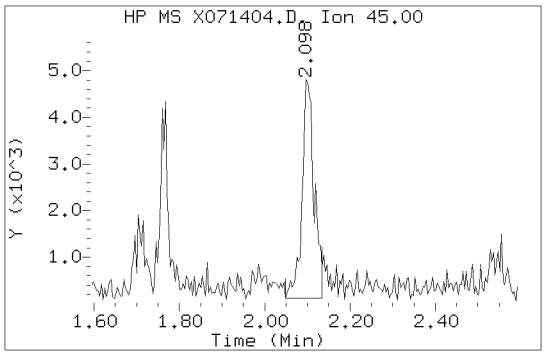
BEFORE

MASS
45
AREA
9372
HEIGHT
4685
20-Jul-2023
15:04
linh
pham



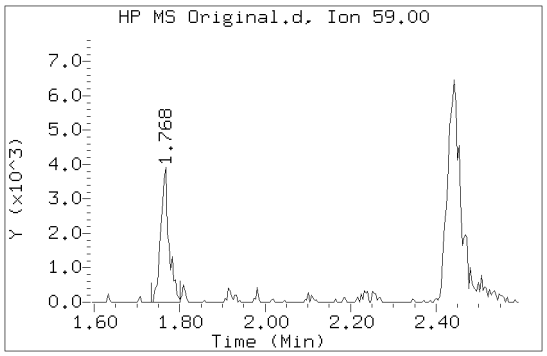
AFTER

MASS
45
AREA
9372
HEIGHT
4685
20-Jul-2023
15:04
linh
pham



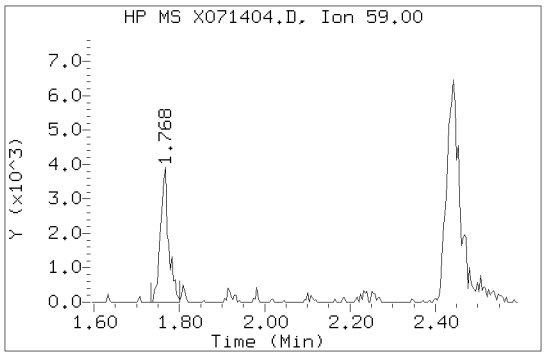
BEFORE

MASS
59
AREA
5211
HEIGHT
3930
20-Jul-2023
15:04
linh
pham



AFTER

MASS
59
AREA
5211
HEIGHT
3930
20-Jul-2023
15:04
linh
pham

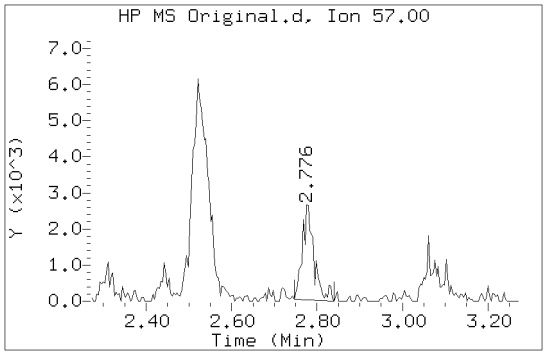


Allyl alcohol (107-18-6)

Reason Code:

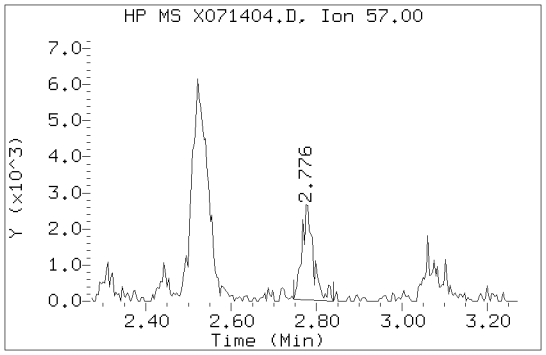
BEFORE

MASS
57
AREA
5000
HEIGHT
2629
20-Jul-2023
15:04
linh
pham



AFTER

MASS
57
AREA
5000
HEIGHT
2629
20-Jul-2023
15:04
linh
pham

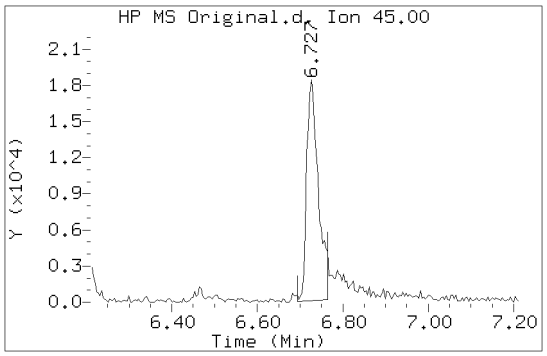


4-Methyl-2-pentanol (108-11-2)

Reason Code:

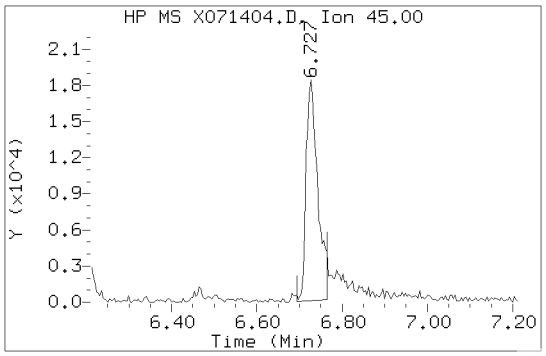
BEFORE

MASS
45
AREA
35175
HEIGHT
18341
20-Jul-2023
15:04
linh
pham



AFTER

MASS
45
AREA
35175
HEIGHT
18341
20-Jul-2023
15:04
linh
pham



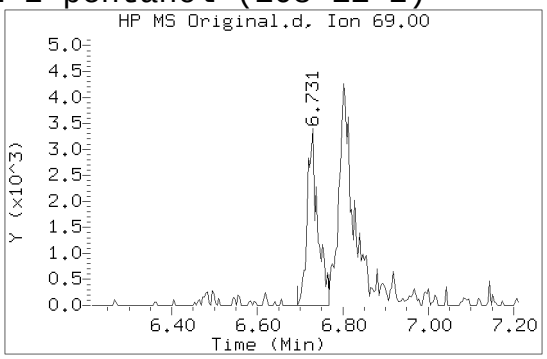
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230714.b\X071404.D
Inj Date : 14-JUL-2023 13:02
InstruID : voa6.i
LabSampID : VSTD001

4-Methyl-2-pentanol (108-11-2)

Reason Code:

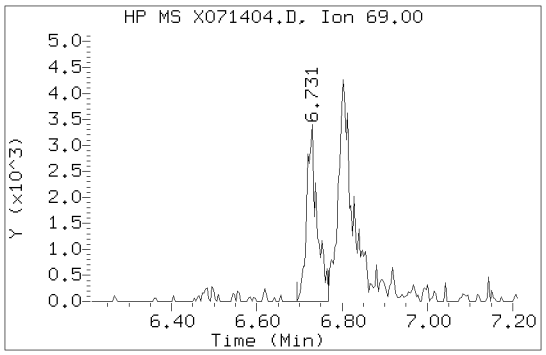
BEFORE

MASS
69
AREA
5748
HEIGHT
3399
20-Jul-2023
15:04
linh
pham



AFTER

MASS
69
AREA
5748
HEIGHT
3399
20-Jul-2023
15:04
linh
pham

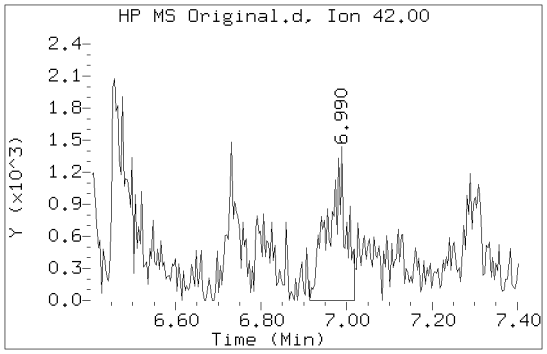


Amyl alcohol (71-41-0)

Reason Code:

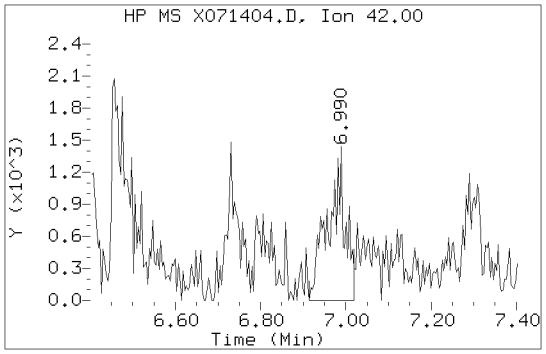
BEFORE

MASS
42
AREA
3944
HEIGHT
1442
20-Jul-2023
15:04
linh
pham



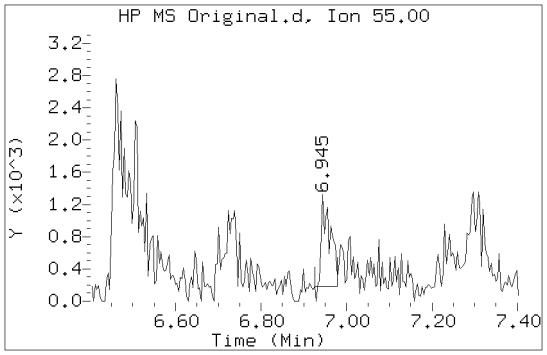
AFTER

MASS
42
AREA
3944
HEIGHT
1442
20-Jul-2023
15:04
linh
pham



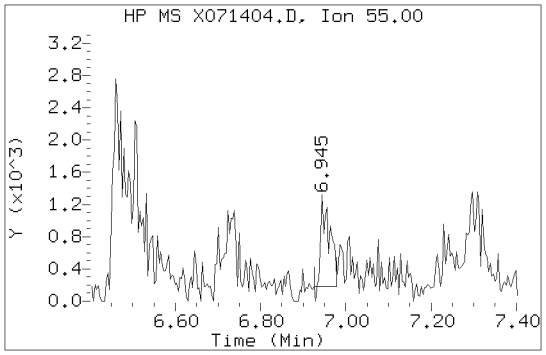
BEFORE

MASS
55
AREA
1617
HEIGHT
1137
20-Jul-2023
15:04
linh
pham



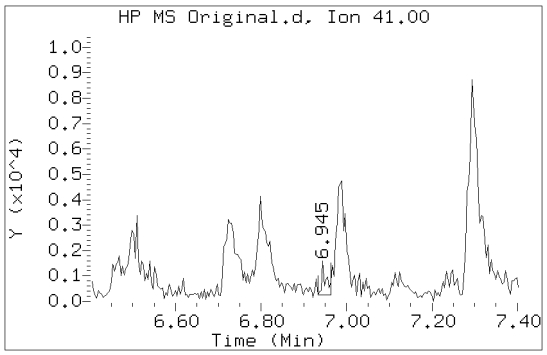
AFTER

MASS
55
AREA
1617
HEIGHT
1137
20-Jul-2023
15:04
linh
pham



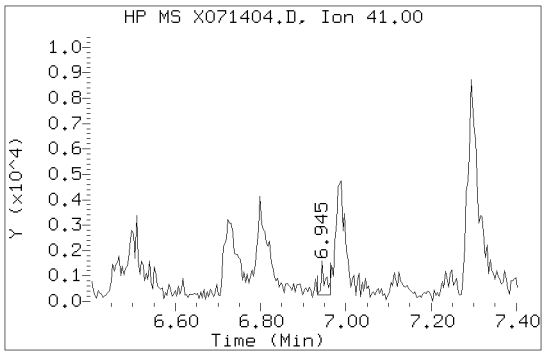
BEFORE

MASS
41
AREA
915
HEIGHT
1326
20-Jul-2023
15:04
linh
pham



AFTER

MASS
41
AREA
915
HEIGHT
1326
20-Jul-2023
15:04
linh
pham



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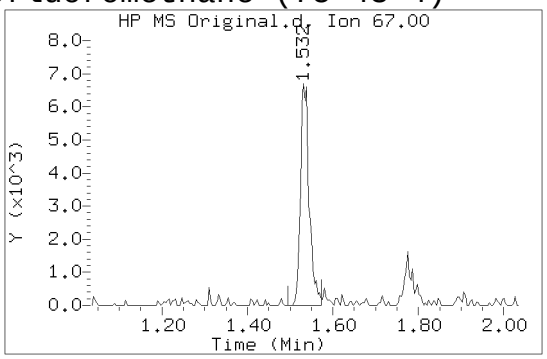
Inj Date : 14-JUL-2023 13:02
InstruID : voa6.i
LabSampID : VSTD001

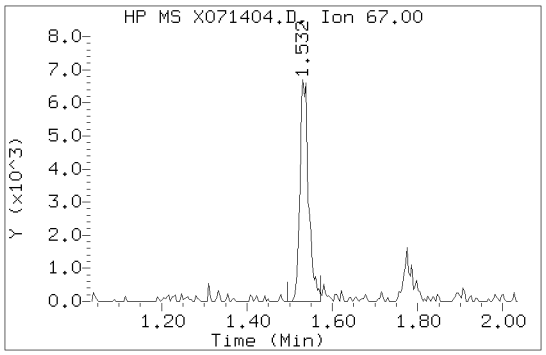
Dichlorofluoromethane (75-43-4)

Reason Code:

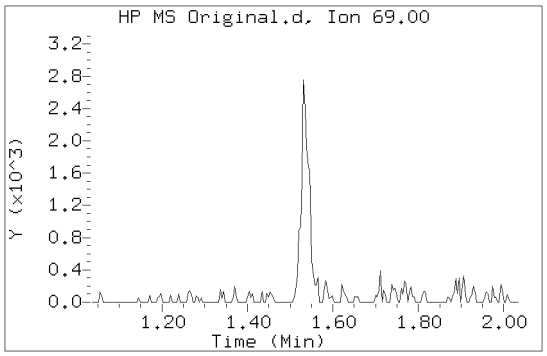
BEFORE
MASS
67
AREA
9743
HEIGHT
6701
20-Jul-2023
15:04
linh
pham



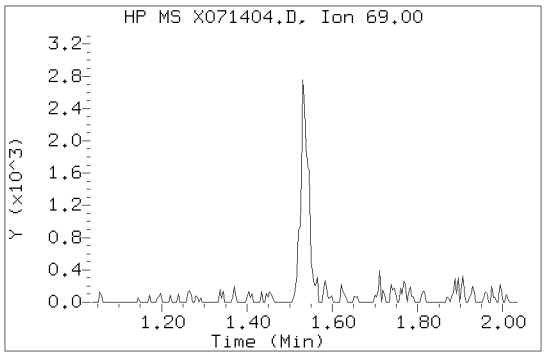
AFTER
MASS
67
AREA
9743
HEIGHT
6701
20-Jul-2023
15:04
linh
pham



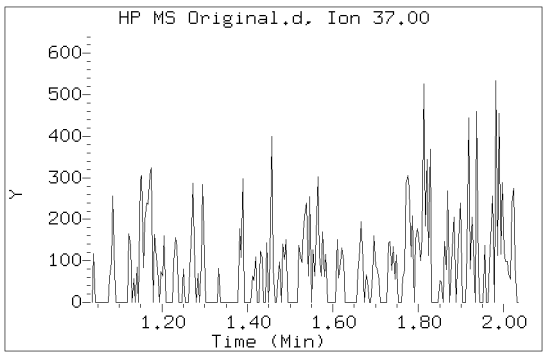
BEFORE
MASS
69
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham



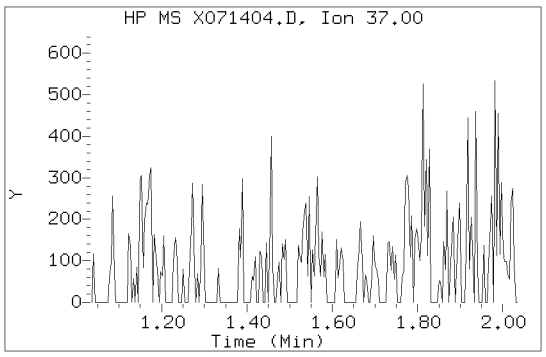
AFTER
MASS
69
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham



BEFORE
MASS
37
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham



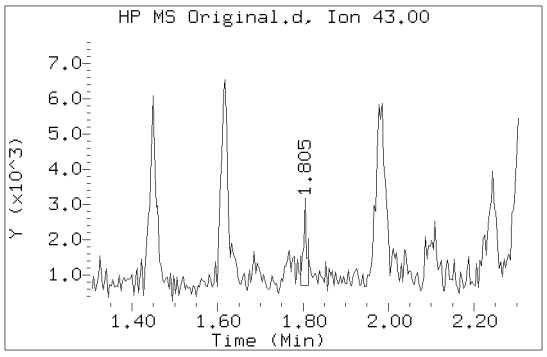
AFTER
MASS
37
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham



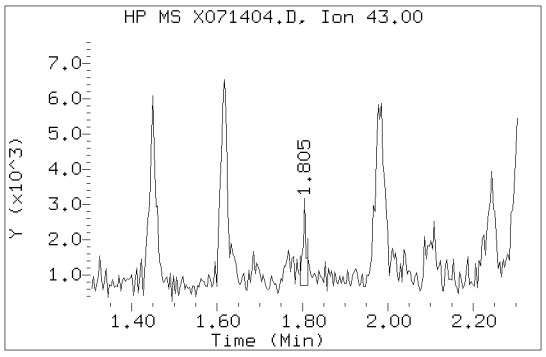
Propylene oxide ()

Reason Code:

BEFORE
MASS
43
AREA
1409
HEIGHT
2479
20-Jul-2023
15:04
linh
pham



AFTER
MASS
43
AREA
1409
HEIGHT
2479
20-Jul-2023
15:04
linh
pham



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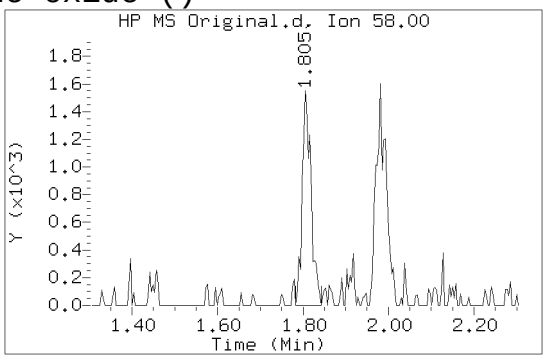
Inj Date : 14-JUL-2023 13:02
InstruID : voa6.i
LabSampID : VSTD001

Propylene oxide ()

Reason Code:

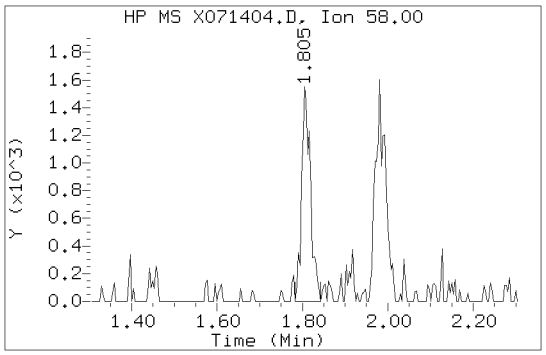
BEFORE

MASS
58
AREA
2276
HEIGHT
1552
20-Jul-2023
15:04
linh
pham



AFTER

MASS
58
AREA
2276
HEIGHT
1552
20-Jul-2023
15:04
linh
pham

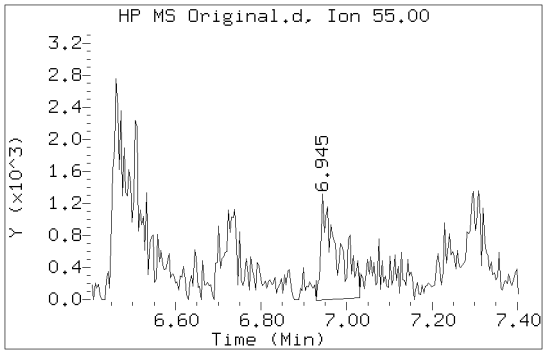


3-Methyl-1-butanol (123-51-3)

Reason Code:

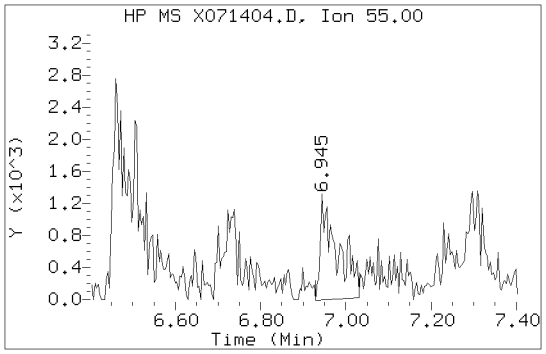
BEFORE

MASS
55
AREA
3623
HEIGHT
1323
20-Jul-2023
15:04
linh
pham



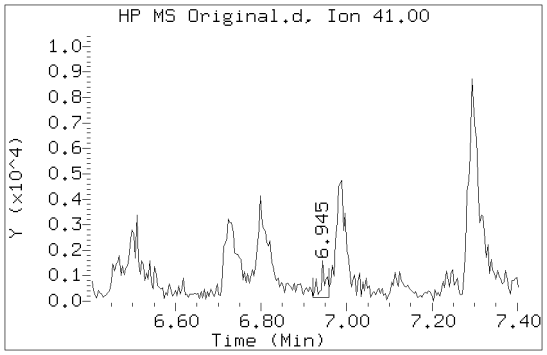
AFTER

MASS
55
AREA
3623
HEIGHT
1323
20-Jul-2023
15:04
linh
pham



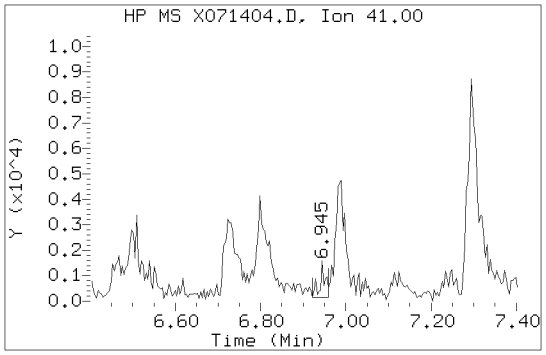
BEFORE

MASS
41
AREA
1239
HEIGHT
1440
20-Jul-2023
15:04
linh
pham



AFTER

MASS
41
AREA
1239
HEIGHT
1440
20-Jul-2023
15:04
linh
pham

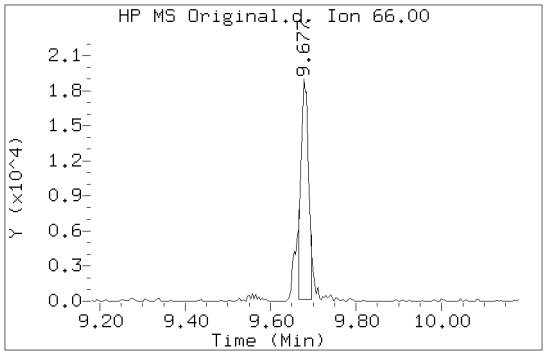


Dicyclopentadiene (77-73-6)

Reason Code:

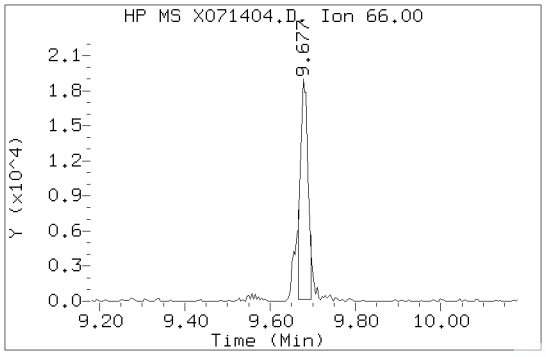
BEFORE

MASS
66
AREA
24319
HEIGHT
18861
20-Jul-2023
15:04
linh
pham



AFTER

MASS
66
AREA
24319
HEIGHT
18861
20-Jul-2023
15:04
linh
pham



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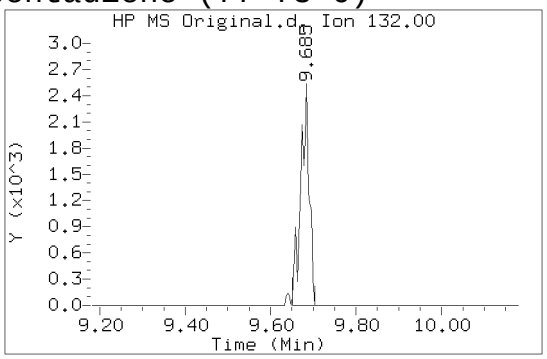
Inj Date : 14-JUL-2023 13:02
InstruID : voa6.i
LabSampID : VSTD001

Dicyclopentadiene (77-73-6)

Reason Code:

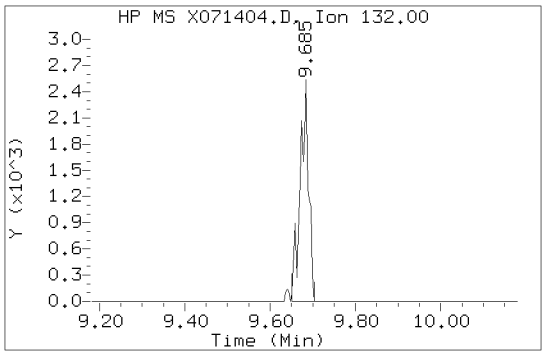
BEFORE

MASS
132
AREA
3579
HEIGHT
2538
20-Jul-2023
15:04
linh
pham



AFTER

MASS
132
AREA
3579
HEIGHT
2538
20-Jul-2023
15:04
linh
pham

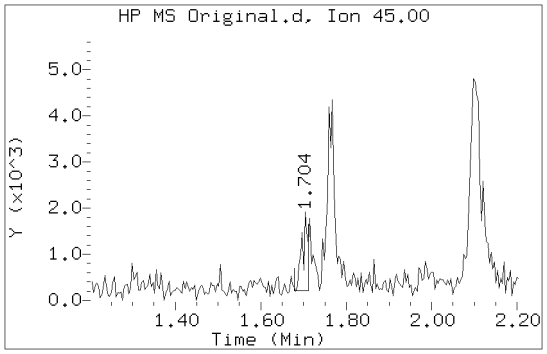


Ethanol (64-17-5)

Reason Code:

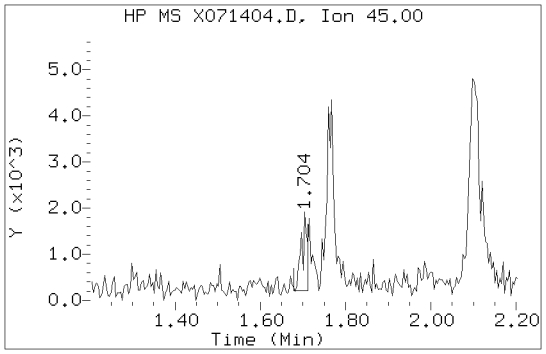
BEFORE

MASS
45
AREA
1613
HEIGHT
1703
20-Jul-2023
15:04
linh
pham



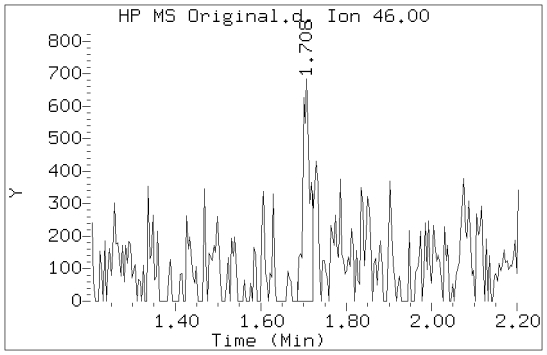
AFTER

MASS
45
AREA
1613
HEIGHT
1703
20-Jul-2023
15:04
linh
pham



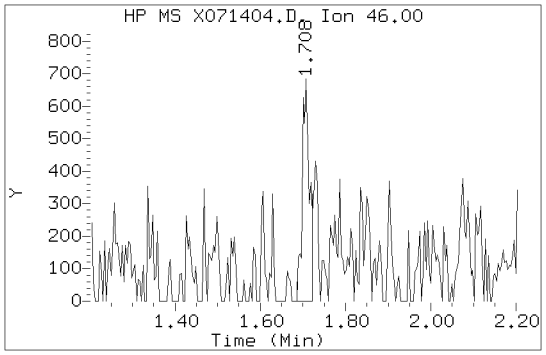
BEFORE

MASS
46
AREA
829
HEIGHT
684
20-Jul-2023
15:04
linh
pham



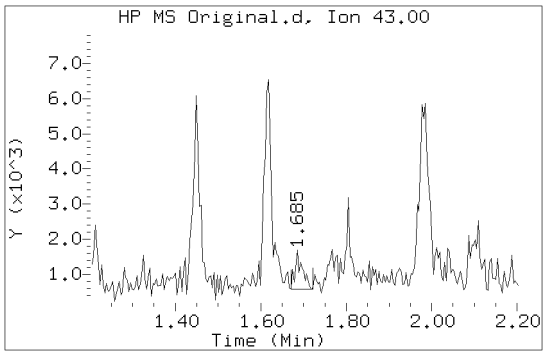
AFTER

MASS
46
AREA
829
HEIGHT
684
20-Jul-2023
15:04
linh
pham



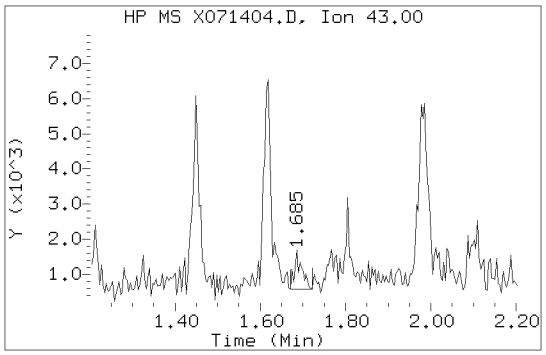
BEFORE

MASS
43
AREA
1337
HEIGHT
1114
20-Jul-2023
15:04
linh
pham



AFTER

MASS
43
AREA
1337
HEIGHT
1114
20-Jul-2023
15:04
linh
pham



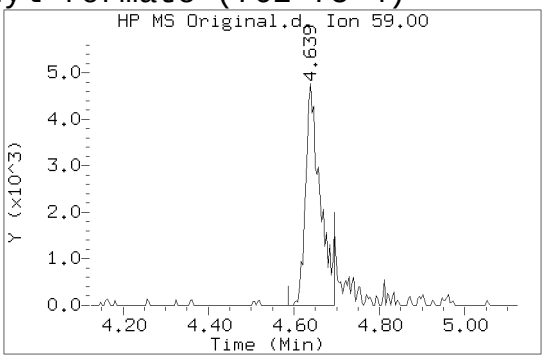
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230714.b\X071404.D
Inj Date : 14-JUL-2023 13:02
InstruID : voa6.i
LabSampID : VSTD001

tert-Butyl formate (762-75-4)

Reason Code:

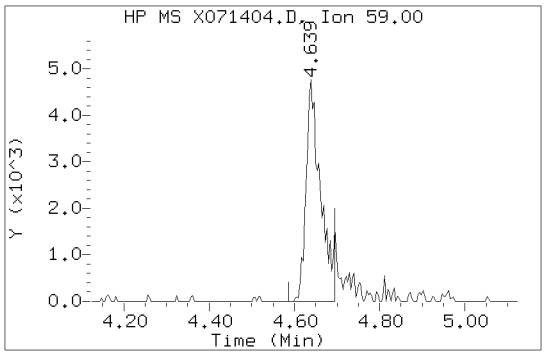
BEFORE

MASS
59
AREA
11427
HEIGHT
4768
20-Jul-2023
15:04
linh
pham



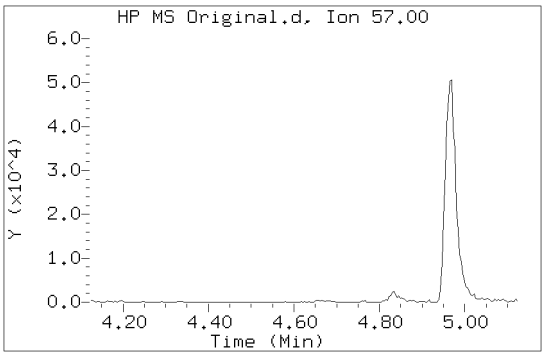
AFTER

MASS
59
AREA
11427
HEIGHT
4768
20-Jul-2023
15:04
linh
pham



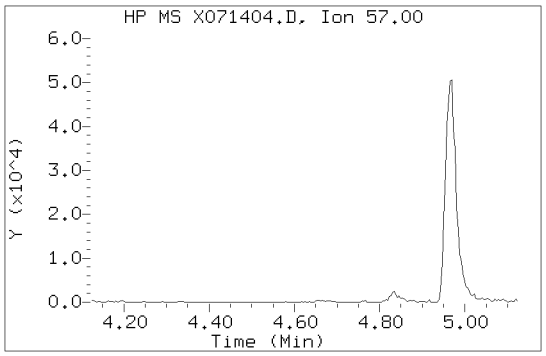
BEFORE

MASS
57
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham



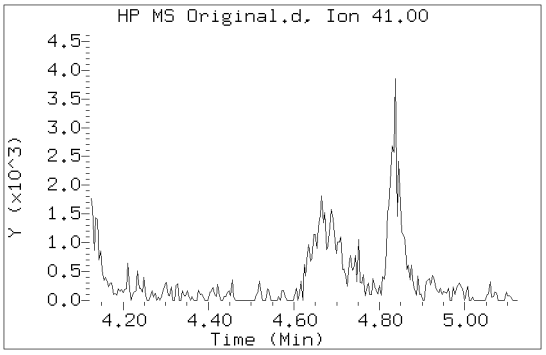
AFTER

MASS
57
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham



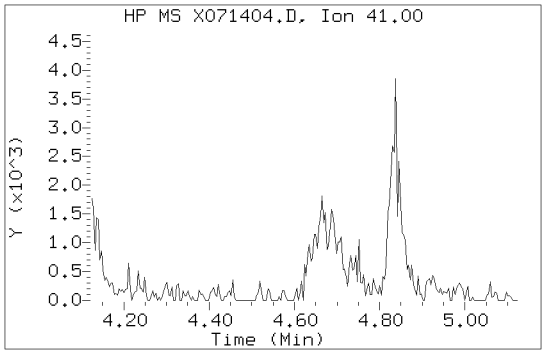
BEFORE

MASS
41
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham



AFTER

MASS
41
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham

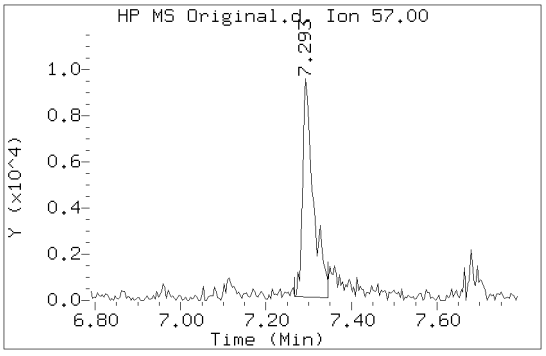


3,3-Dimethyl-1-butanol (624-95-3)

Reason Code:

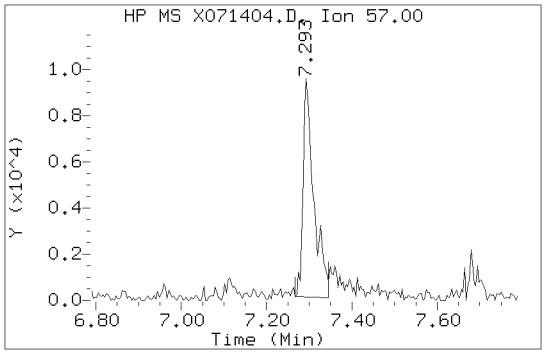
BEFORE

MASS
57
AREA
16922
HEIGHT
9467
20-Jul-2023
15:04
linh
pham



AFTER

MASS
57
AREA
16922
HEIGHT
9467
20-Jul-2023
15:04
linh
pham

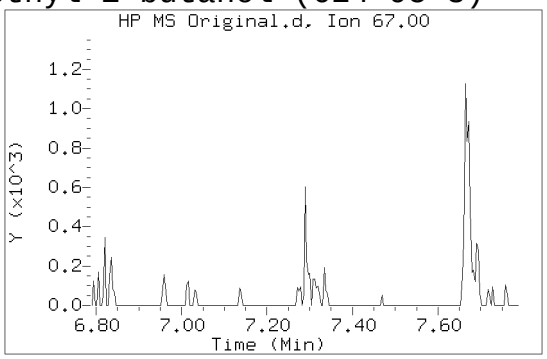


Data File : \\NAHSTWS005\Target\chem\voa6.i\X230714.b\X071404.D
Inj Date : 14-JUL-2023 13:02
InstruID : voa6.i
LabSampID : VSTD001

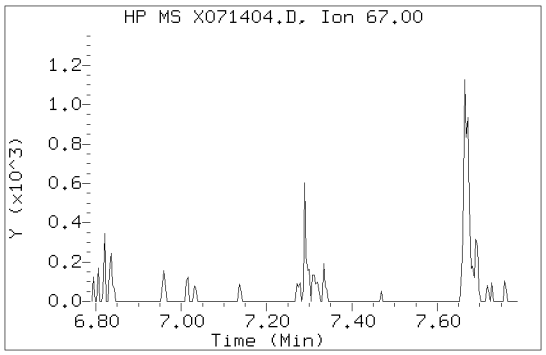
3,3-Dimethyl-1-butanol (624-95-3)

Reason Code:

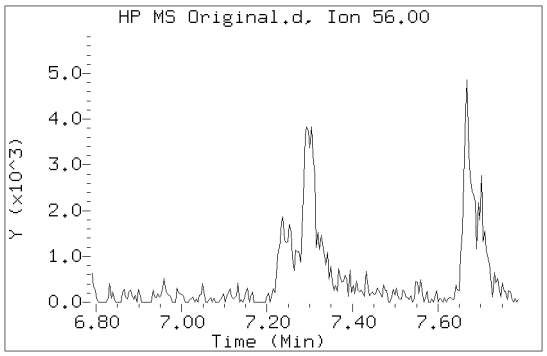
BEFORE
MASS
67
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham



AFTER
MASS
67
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham



BEFORE
MASS
56
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham



AFTER
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56
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HEIGHT
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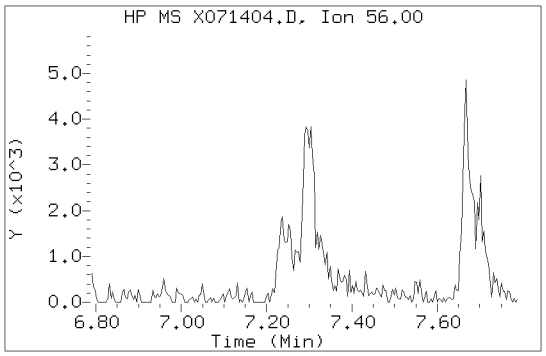
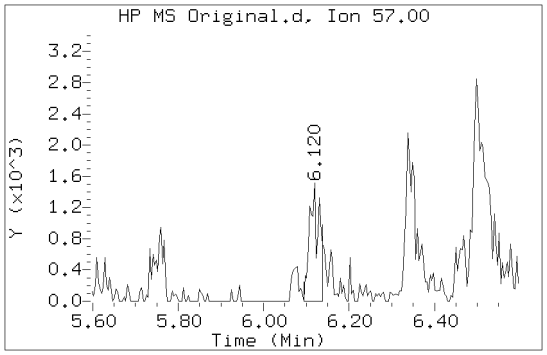
20-Jul-2023
15:04
linh
pham



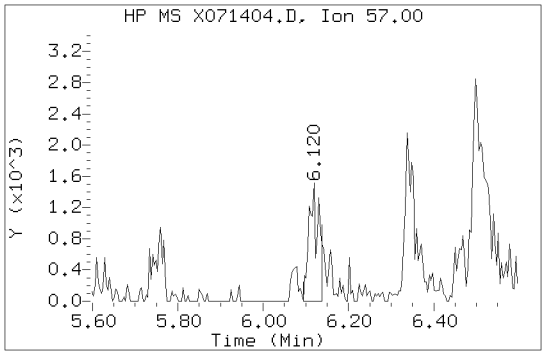
Epichlorohydrin (106-89-8)

Reason Code:

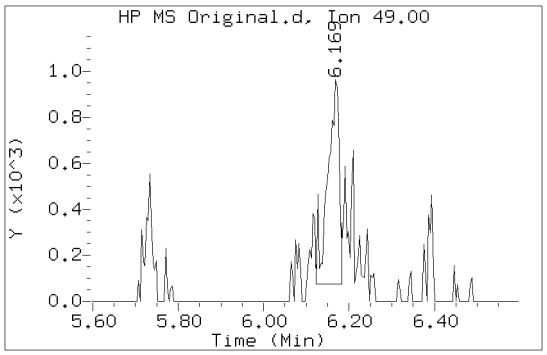
BEFORE
MASS
57
AREA
2383
HEIGHT
1514
20-Jul-2023
15:04
linh
pham



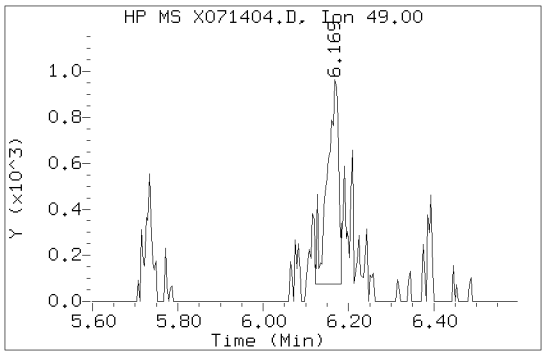
AFTER
MASS
57
AREA
2383
HEIGHT
1514
20-Jul-2023
15:04
linh
pham



BEFORE
MASS
49
AREA
1633
HEIGHT
889
20-Jul-2023
15:04
linh
pham



AFTER
MASS
49
AREA
1633
HEIGHT
889
20-Jul-2023
15:04
linh
pham



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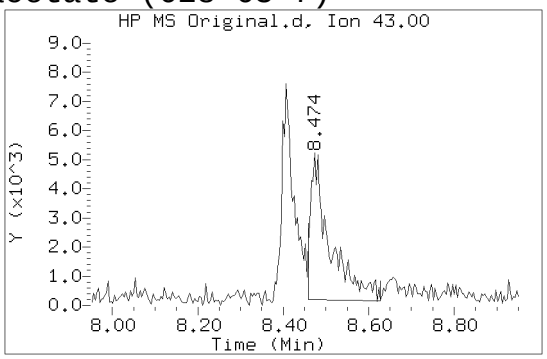
Inj Date : 14-JUL-2023 13:02
InstruID : voa6.i
LabSampID : VSTD001

n-Amyl acetate (628-63-7)

Reason Code:

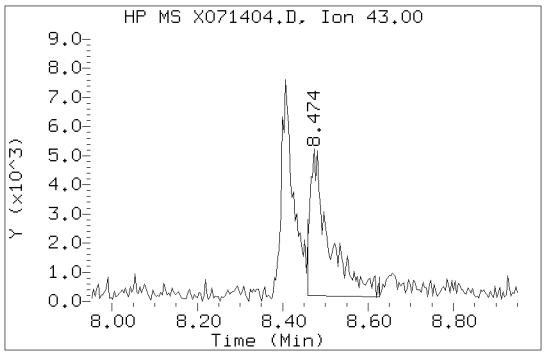
BEFORE

MASS
43
AREA
15950
HEIGHT
5045
20-Jul-2023
15:04
linh
pham



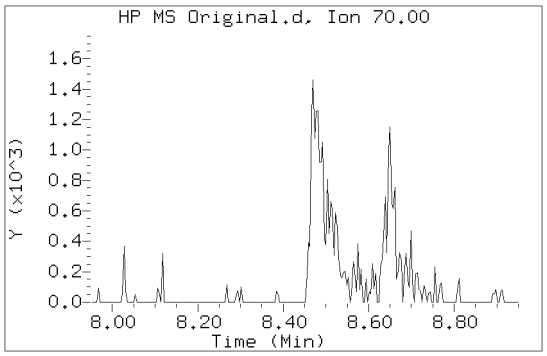
AFTER

MASS
43
AREA
15950
HEIGHT
5045
20-Jul-2023
15:04
linh
pham



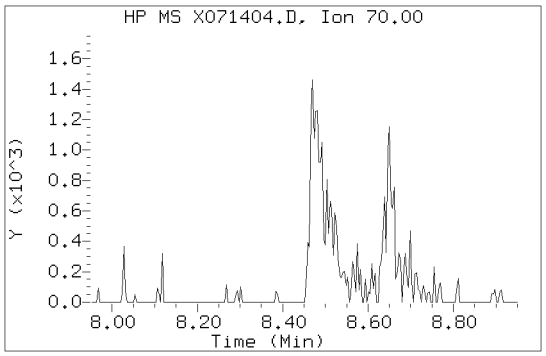
BEFORE

MASS
70
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham



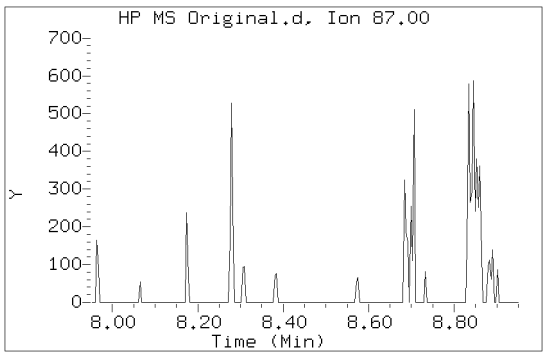
AFTER

MASS
70
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham



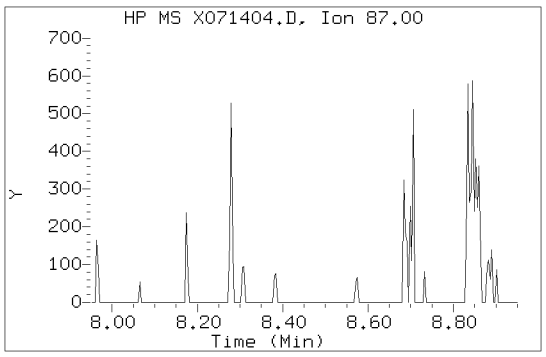
BEFORE

MASS
87
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham



AFTER

MASS
87
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham

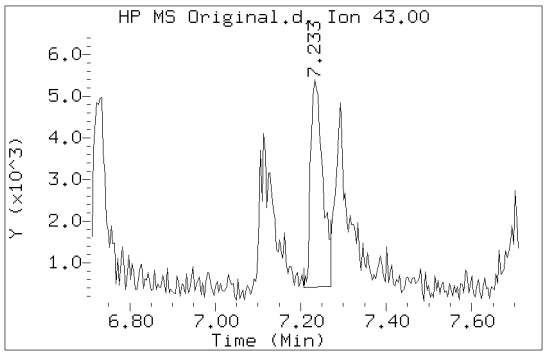


n-Butyl acetate (123-86-4)

Reason Code:

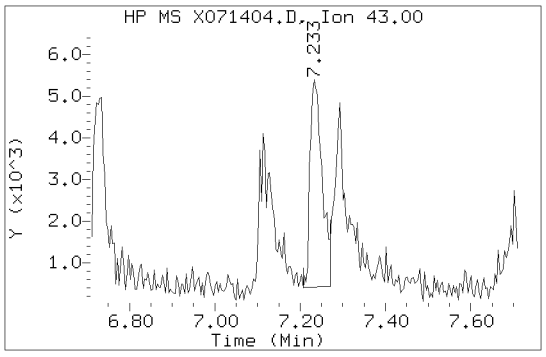
BEFORE

MASS
43
AREA
9795
HEIGHT
4977
20-Jul-2023
15:04
linh
pham



AFTER

MASS
43
AREA
9795
HEIGHT
4977
20-Jul-2023
15:04
linh
pham



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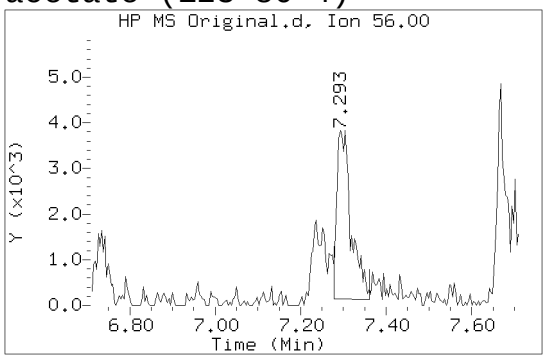
Inj Date : 14-JUL-2023 13:02
InstruID : voa6.i
LabSampID : VSTD001

n-Butyl acetate (123-86-4)

Reason Code:

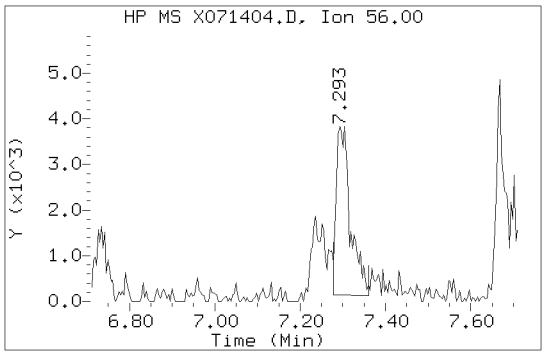
BEFORE

MASS
56
AREA
8623
HEIGHT
3689
20-Jul-2023
15:04
linh
pham



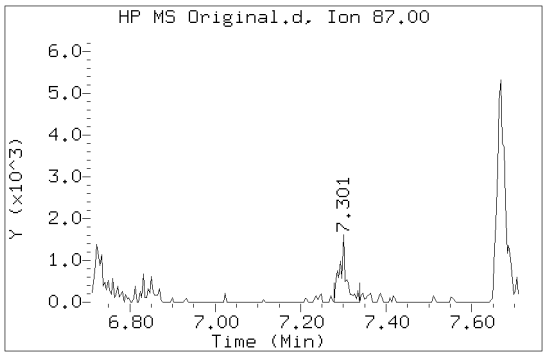
AFTER

MASS
56
AREA
8623
HEIGHT
3689
20-Jul-2023
15:04
linh
pham



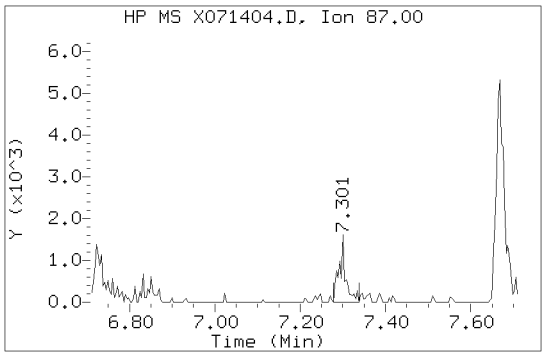
BEFORE

MASS
87
AREA
1682
HEIGHT
1613
20-Jul-2023
15:04
linh
pham



AFTER

MASS
87
AREA
1682
HEIGHT
1613
20-Jul-2023
15:04
linh
pham

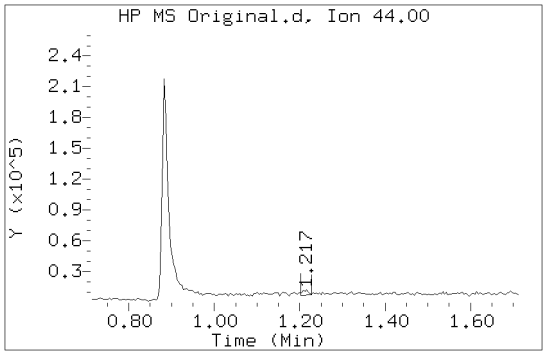


Acetaldehyde (75-07-0)

Reason Code:

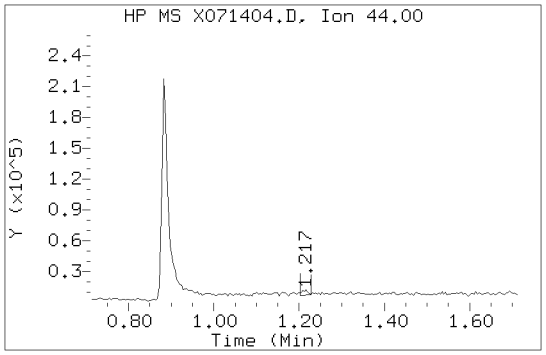
BEFORE

MASS
44
AREA
5117
HEIGHT
4908
20-Jul-2023
15:04
linh
pham



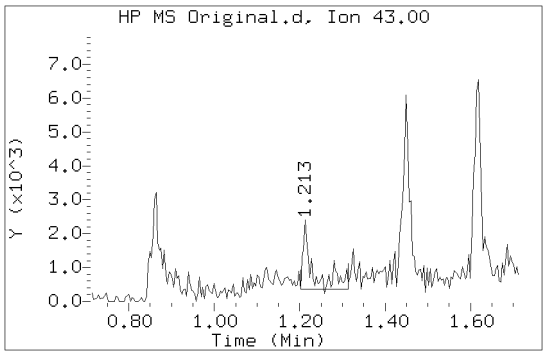
AFTER

MASS
44
AREA
5117
HEIGHT
4908
20-Jul-2023
15:04
linh
pham



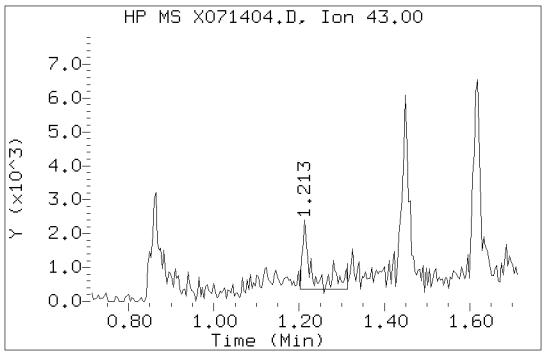
BEFORE

MASS
43
AREA
3201
HEIGHT
2038
20-Jul-2023
15:04
linh
pham



AFTER

MASS
43
AREA
3201
HEIGHT
2038
20-Jul-2023
15:04
linh
pham



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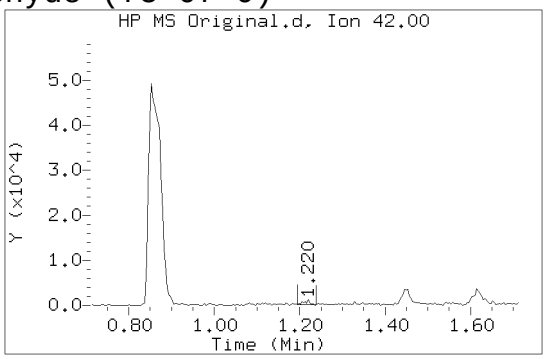
Inj Date : 14-JUL-2023 13:02
InstruID : voa6.i
LabSampID : VSTD001

Acetaldehyde (75-07-0)

Reason Code:

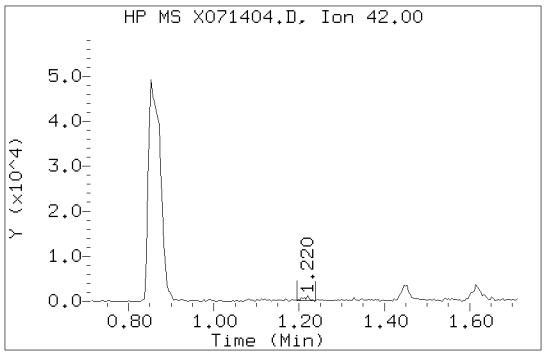
BEFORE

MASS
42
AREA
1038
HEIGHT
1152
20-Jul-2023
15:04
linh
pham



AFTER

MASS
42
AREA
1038
HEIGHT
1152
20-Jul-2023
15:04
linh
pham

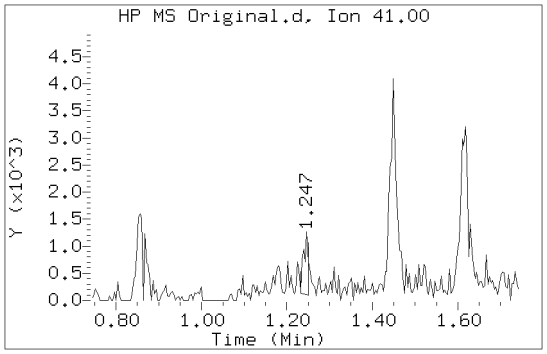


Isobutylene (115-11-7)

Reason Code:

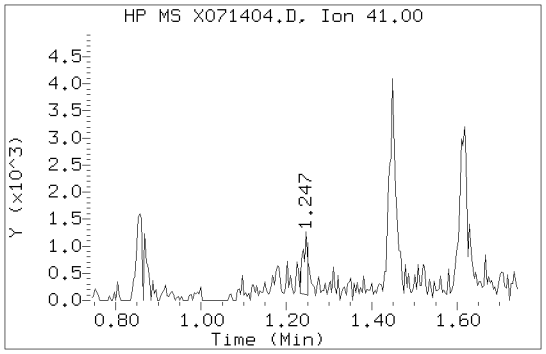
BEFORE

MASS
41
AREA
875
HEIGHT
1172
20-Jul-2023
15:04
linh
pham



AFTER

MASS
41
AREA
875
HEIGHT
1172
20-Jul-2023
15:04
linh
pham



BEFORE

MASS
56
AREA
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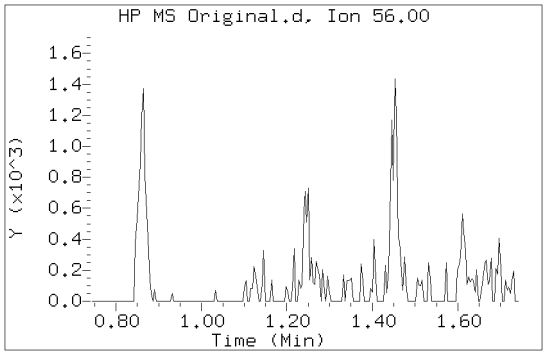
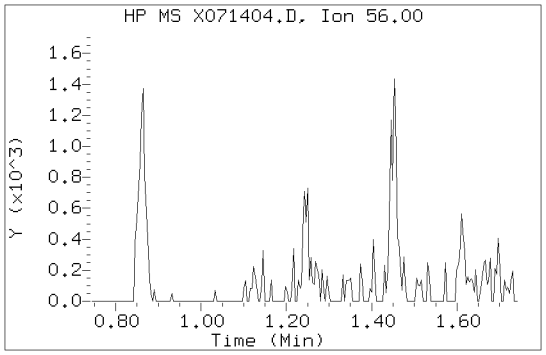
HEIGHT
0
20-Jul-2023
15:04
linh
pham



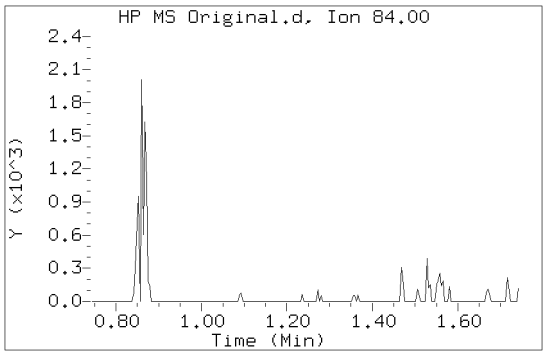
AFTER

MASS
56
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham



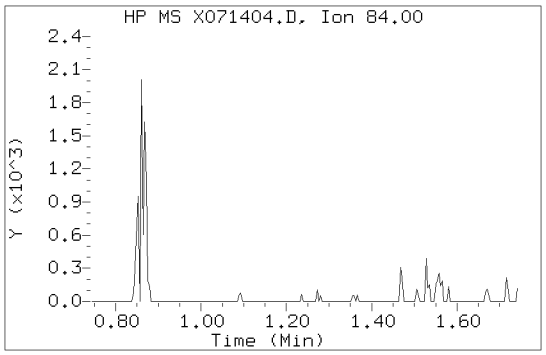
BEFORE

MASS
84
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham



AFTER

MASS
84
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham



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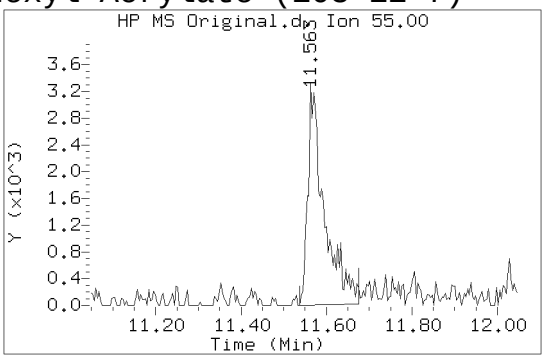
Inj Date : 14-JUL-2023 13:02
InstruID : voa6.i
LabSampID : VSTD001

2-Ethylhexyl Acrylate (103-11-7)

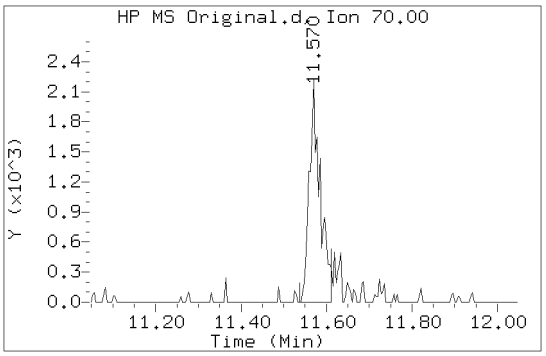
BEFORE

MASS
55
AREA
8780
HEIGHT
3308
20-Jul-2023
15:04
linh
pham



BEFORE

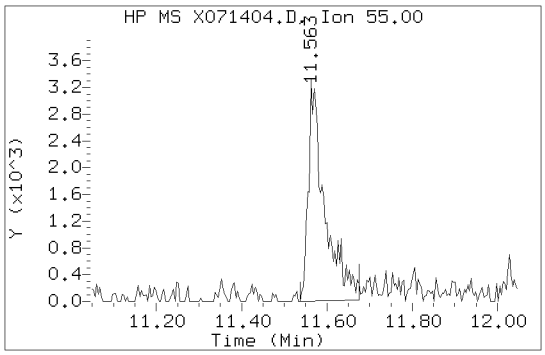
MASS
70
AREA
3926
HEIGHT
2219
20-Jul-2023
15:04
linh
pham



Reason Code:

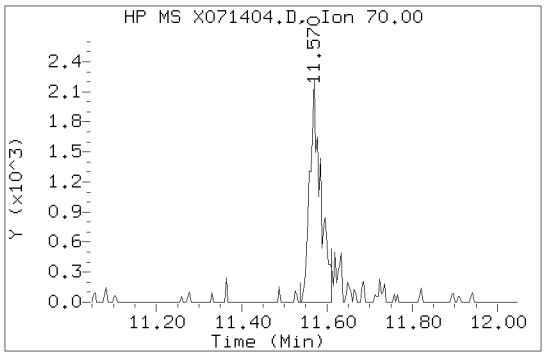
AFTER

MASS
55
AREA
8780
HEIGHT
3308
20-Jul-2023
15:04
linh
pham



AFTER

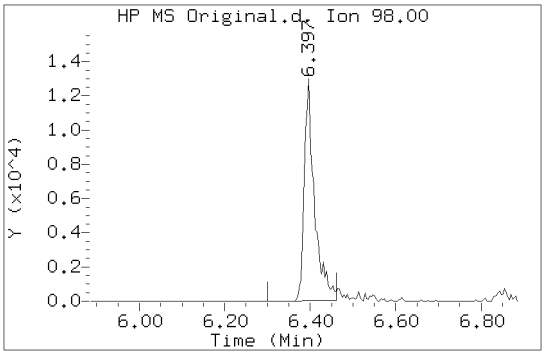
MASS
70
AREA
3926
HEIGHT
2219
20-Jul-2023
15:04
linh
pham



Toluene-d8 (2037-26-5)

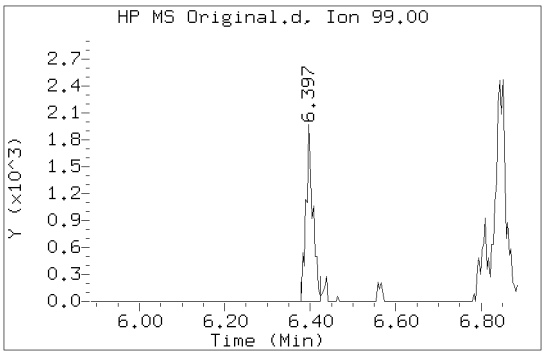
BEFORE

MASS
98
AREA
21847
HEIGHT
12976
20-Jul-2023
15:04
linh
pham



BEFORE

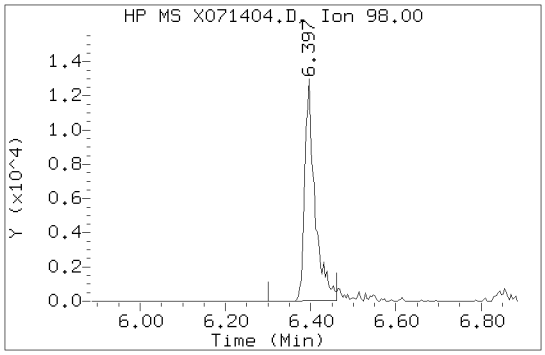
MASS
99
AREA
2184
HEIGHT
1968
20-Jul-2023
15:04
linh
pham



Reason Code:

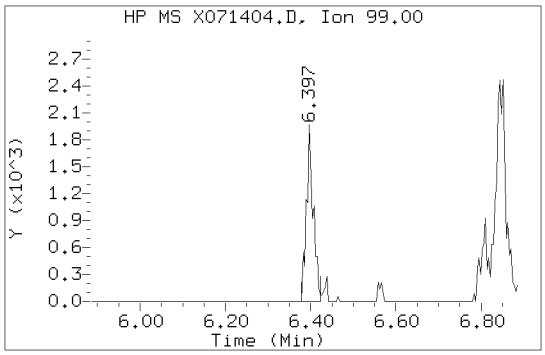
AFTER

MASS
98
AREA
21847
HEIGHT
12976
20-Jul-2023
15:04
linh
pham



AFTER

MASS
99
AREA
2184
HEIGHT
1968
20-Jul-2023
15:04
linh
pham



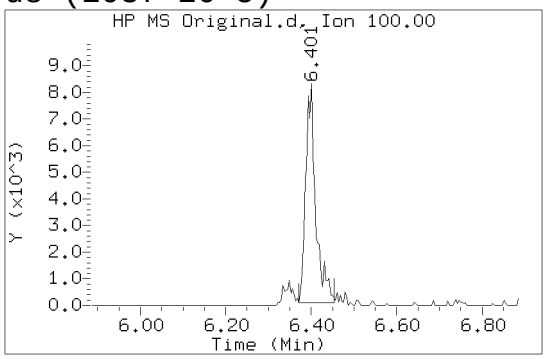
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230714.b\X071404.D
Inj Date : 14-JUL-2023 13:02
InstruID : voa6.i
LabSampID : VSTD001

Toluene-d8 (2037-26-5)

Reason Code:

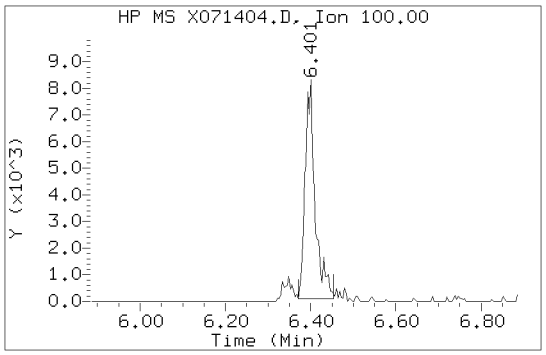
BEFORE

MASS
100
AREA
13429
HEIGHT
8225
20-Jul-2023
15:04
linh
pham



AFTER

MASS
100
AREA
13429
HEIGHT
8225
20-Jul-2023
15:04
linh
pham

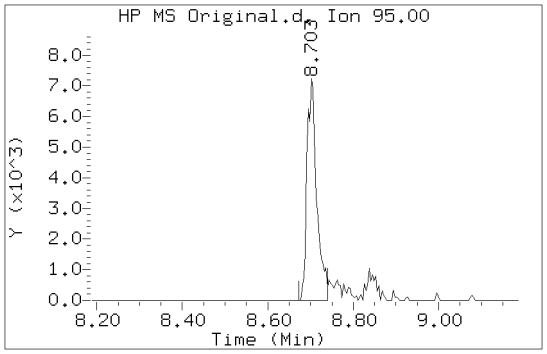


4-Bromofluorobenzene (460-00-4)

Reason Code:

BEFORE

MASS
95
AREA
11517
HEIGHT
7234
20-Jul-2023
15:04
linh
pham



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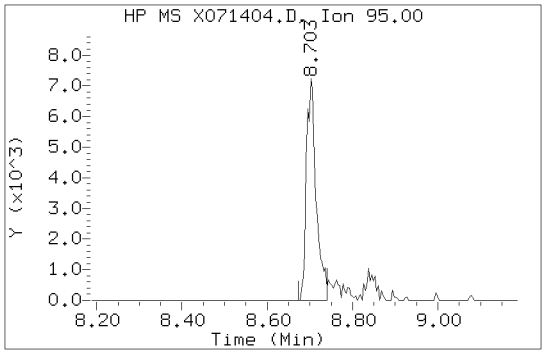

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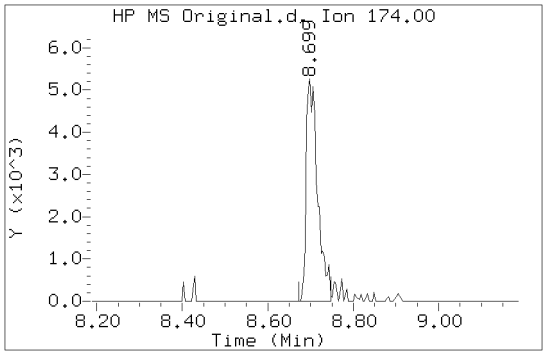

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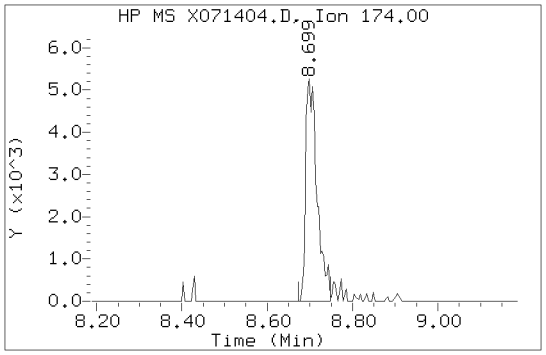

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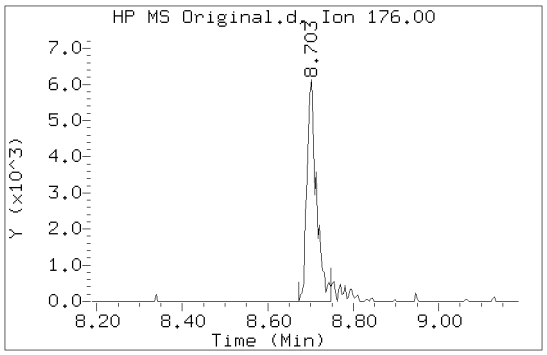

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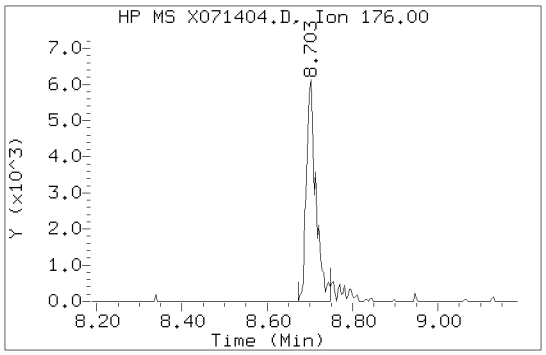

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230714.b\X071405.D
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Operator : PC Inst ID: voa6.i
Smp Info : VSTD002;VSTD002;1;4;
Misc Info : V6;WATER;0;1;
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Meth Date : 20-Jul-2023 15:05 voa6.i Quant Type: ISTD
Cal Date : 14-JUL-2023 13:02 Cal File: X071404.D
Als bottle: 6 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1	Pentafluorobenzene	168	4.181	4.181	(1.000)	523249	50.0000	
2	Dichlorodifluoromethane	85	0.976	0.976	(0.234)	9210	2.00000	2.77(M)
3	Chloromethane	50	1.085	1.085	(0.260)	17566	2.00000	2.22
4	Propionitrile	54	3.683	3.683	(0.881)	20667	20.0000	19.93(aM)
5	Vinyl Chloride	62	1.145	1.145	(0.274)	15109	2.00000	2.23
6	Bromomethane	94	1.347	1.347	(0.322)	5769	2.00000	2.05(M)
7	Chloroethane	64	1.404	1.404	(0.336)	8482	2.00000	2.19(M)
8	Trichlorofluoromethane	101	1.561	1.561	(0.373)	15419	2.00000	2.24
9	Acrolein	56	1.861	1.861	(0.445)	917	4.00000	5.70(aMH)
10	Acetone	43	1.977	1.977	(0.473)	15631	4.00000	3.03
11	1,1-Dichloroethene	96	1.921	1.921	(0.459)	8527	2.00000	2.22
12	Isobutyl Alcohol	43	4.684	4.684	(1.120)	37832	40.0000	38.14(aM)
13	Acetonitrile	39	2.202	2.202	(0.527)	15528	20.0000	21.16(a)
14	Allyl Chloride	41	2.202	2.202	(0.527)	33926	2.00000	1.97(a)
15	Iodomethane	142	2.030	2.030	(0.485)	11682	4.00000	6.08(M)
16	Acrylonitrile	53	2.547	2.547	(0.609)	10541	4.00000	4.13
17	Methylene Chloride	84	2.303	2.303	(0.551)	11880	2.00000	1.28(M)
18	Methyl tert-butyl ether	73	2.543	2.543	(0.608)	30252	2.00000	2.12
19	Carbon Disulfide	76	2.075	2.075	(0.496)	52986	4.00000	4.39
20	trans-1,2-Dichloroethene	96	2.532	2.532	(0.606)	9515	2.00000	2.14

21 Vinyl Acetate	43	3.004	3.004 (0.719)	75193	4.00000	4.10
22 1,1-Dichloroethane	63	2.922	2.922 (0.699)	21647	2.00000	2.22

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	23 Chloroprene	53	1.771	1.771	(0.424)	4560	2.00000	1.93(aM)
	24 2-Butanone	43	3.672	3.672	(0.878)	10454	4.00000	3.75(M)
	25 Methacrylonitrile	41	3.870	3.870	(0.926)	12946	2.00000	1.91(a)
	26 2,2-Dichloropropane	77	3.514	3.514	(0.840)	15882	2.00000	2.30
	27 cis-1,2-Dichloroethene	96	3.537	3.537	(0.846)	11533	2.00000	2.04(M)
	28 Chloroform	83	3.915	3.915	(0.936)	21885	2.00000	2.19
	29 Bromochloromethane	128	3.799	3.799	(0.909)	7550	2.00000	2.38
$	30 Dibromofluoromethane	113	4.106	4.106	(0.982)	10131	2.00000	1.38
	31 1,1,1-Trichloroethane	97	4.088	4.088	(0.978)	16000	2.00000	2.08
	32 1,1-Dichloropropene	75	4.283	4.283	(0.863)	13616	2.00000	2.05
	33 1,2-Dichloroethane	62	4.564	4.564	(0.919)	16880	2.00000	1.89(M)
	34 Carbon Tetrachloride	117	4.264	4.264	(0.859)	13047	2.00000	1.95(M)
$	35 1,2-Dichloroethane-d4	65	4.477	4.477	(1.071)	14667	2.00000	1.85
*	36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	811220	50.0000	
	37 Benzene	78	4.519	4.519	(0.910)	39692	2.00000	2.04
	38 Trichloroethene	130	5.208	5.208	(1.049)	12354	2.00000	2.25(a)
	39 Bromodichloromethane	83	5.733	5.733	(1.155)	14668	2.00000	1.97(a)
	40 Methyl Methacrylate	41	5.625	5.625	(1.345)	12770	2.00000	2.02(aM)
	41 2-Chloroethylvinyl ether	63	6.059	6.059	(1.220)	8400	4.00000	3.70(a)
	42 1,2-Dichloropropane	63	5.441	5.441	(1.096)	12678	2.00000	2.03(aM)
	43 2-Nitropropane	43	5.973	5.973	(1.428)	4635	2.00000	2.22(a)
	44 Dibromomethane	93	5.557	5.557	(1.119)	7713	2.00000	2.18(a)
	45 4-Methyl-2-Pentanone	43	6.333	6.333	(0.826)	29112	4.00000	3.99(a)
	46 cis-1,3-Dichloropropene	75	6.164	6.164	(1.242)	17329	2.00000	2.02(a)
*	47 Chlorobenzene-d5	117	7.668	7.668	(1.000)	740616	50.0000	
$	48 Toluene-d8	98	6.389	6.389	(0.833)	41058	2.00000	2.15(aM)
	49 Ethyl Methacrylate	69	6.723	6.723	(1.354)	11361	2.00000	2.13(a)
	50 Toluene	91	6.449	6.449	(0.841)	40789	2.00000	2.04(a)
	51 trans-1,3-Dichloropropene	75	6.689	6.689	(1.347)	14549	2.00000	2.02(a)
	52 2-Hexanone	43	7.105	7.105	(0.927)	19503	4.00000	4.07(a)
	53 1,1,2-Trichloroethane	83	6.843	6.843	(0.892)	9040	2.00000	2.13(a)
	54 1,3-Dichloropropane	76	6.985	6.985	(0.911)	17344	2.00000	2.00(a)
	55 Dibromochloromethane	129	7.180	7.180	(0.936)	12160	2.00000	1.99(a)
	56 Tetrachloroethene	164	6.929	6.929	(0.904)	9711	2.00000	2.35(aM)
	57 1,2-Dibromoethane	107	7.263	7.263	(0.947)	9815	2.00000	2.03(a)
	58 1-Chlorohexane	55	7.694	7.694	(1.550)	14217	2.00000	2.18(a)
	59 Chlorobenzene	112	7.694	7.694	(1.003)	28612	2.00000	2.05(a)
	60 1,1,1,2-Tetrachloroethane	131	7.773	7.773	(1.014)	10835	2.00000	1.98(a)
	61 Ethylbenzene	106	7.799	7.799	(1.017)	14708	2.00000	2.10(a)
	62 m,p-Xylenes	106	7.904	7.904	(1.031)	39231	4.00000	4.47(a)
	63 o-Xylene	106	8.245	8.245	(1.075)	17205	2.00000	2.07(a)
	64 Styrene	104	8.275	8.275	(1.079)	28504	2.00000	1.96(a)
	66 Bromoform	173	8.414	8.414	(1.097)	8672	2.00000	2.21(Ta)
	67 Isopropylbenzene	105	8.560	8.560	(1.116)	48187	2.00000	2.25(a)
	68 1,1,2,2-Tetrachloroethane	83	8.841	8.841	(0.915)	14352	2.00000	2.16(aM)
$	69 4-Bromofluorobenzene	95	8.695	8.695	(1.134)	17835	2.00000	2.01(a)
*	70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	394737	50.0000	
	71 1,2,3-Trichloropropane	75	8.863	8.863	(0.917)	10578	2.00000	2.01(aM)
	72 trans-1,4-Dichloro-2-butene	53	8.901	8.901	(1.161)	4279	2.00000	1.89(aM)
	73 n-Propylbenzene	91	8.916	8.916	(0.923)	50047	2.00000	2.09(a)
	74 Bromobenzene	156	8.815	8.815	(0.912)	12961	2.00000	2.09(a)
	75 1,3,5-Trimethylbenzene	105	9.070	9.070	(0.939)	37798	2.00000	2.11(a)

76	2-Chlorotoluene	91	8.980	8.980 (0.929)	34081	2.00000	2.11(a)
77	4-Chlorotoluene	91	9.077	9.077 (0.939)	37510	2.00000	2.12(a)

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230714.b\X071405.D Page 3
Report Date: 20-Jul-2023 15:05

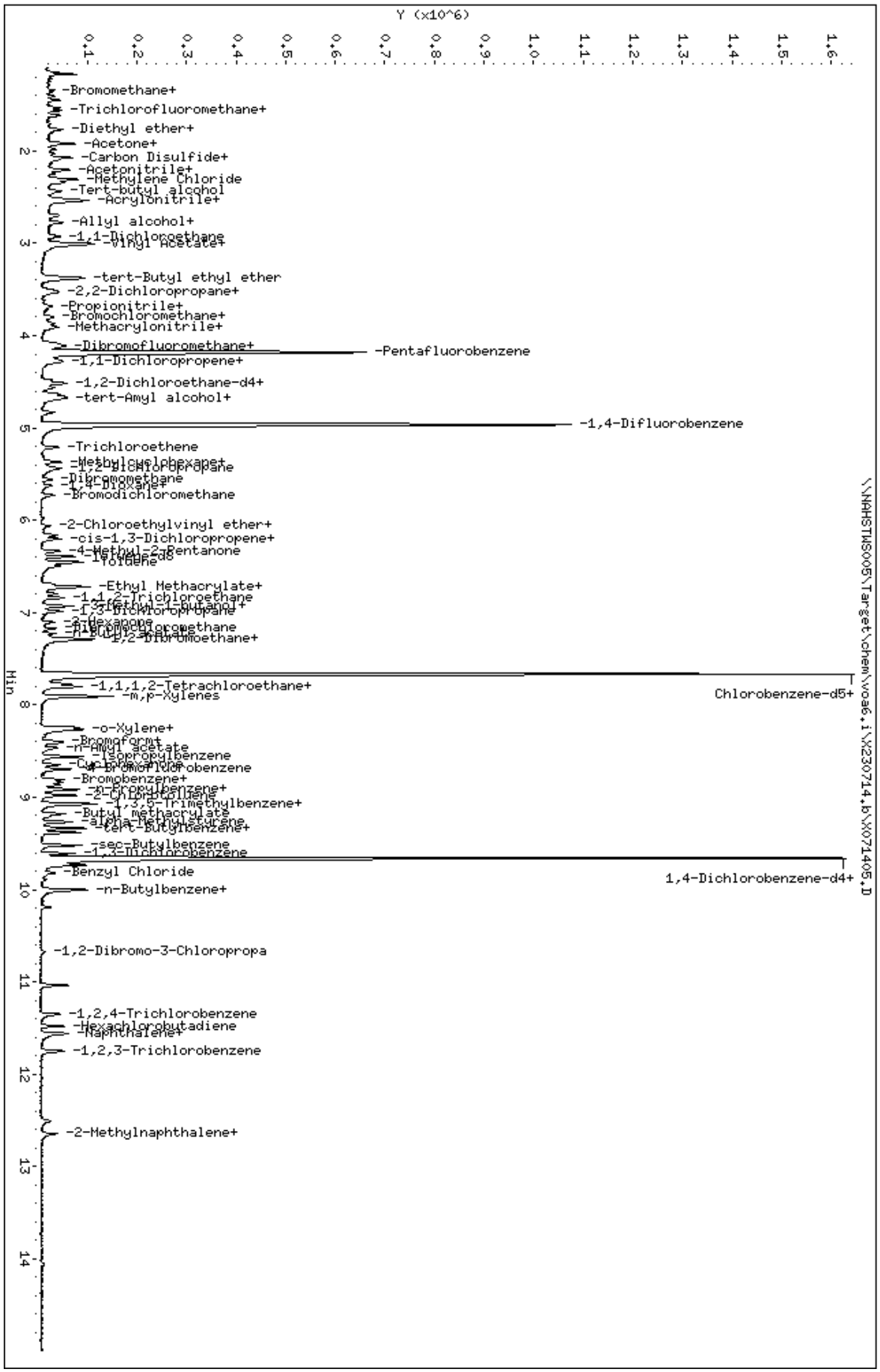
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
78	tert-Butylbenzene	119	9.336	9.336	(0.966)	34859	2.00000	2.27(a)
79	1,2,4-Trimethylbenzene	105	9.381	9.381	(0.971)	38346	2.00000	2.13(a)
81	sec-Butylbenzene	105	9.519	9.519	(0.985)	45694	2.00000	2.23(a)
82	p-Isopropyltoluene	119	9.647	9.647	(0.998)	39231	2.00000	2.10(a)
83	1,3-Dichlorobenzene	146	9.609	9.609	(0.995)	22178	2.00000	2.06(a)
84	1,4-Dichlorobenzene	146	9.681	9.681	(1.002)	26773	2.00000	2.27(a)
86	Benzyl Chloride	91	9.823	9.823	(1.281)	17851	2.00000	3.69(aM)
87	n-Butylbenzene	91	10.003	10.003	(1.035)	31075	2.00000	1.98(a)
88	1,2-Dichlorobenzene	146	9.999	9.999	(1.035)	21840	2.00000	2.06(a)
89	1,2-Dibromo-3-Chloropropane	155	10.678	10.678	(1.105)	1953	2.00000	2.84(a)
90	1,2,4-Trichlorobenzene	180	11.360	11.360	(1.176)	14997	2.00000	2.06(a)
91	Hexachlorobutadiene	225	11.476	11.476	(1.188)	6844	2.00000	4.30(aM)
92	Naphthalene	128	11.559	11.559	(1.196)	35806	2.00000	1.99(aM)
93	1,2,3-Trichlorobenzene	180	11.742	11.742	(1.215)	14737	2.00000	2.16(a)
146	Methyl acetate	43	2.247	2.247	(0.537)	9491	2.00000	2.03(aM)
138	Freon TF	101	1.917	1.917	(0.459)	7195	2.00000	1.83(aM)
141	Cyclohexane	56	4.121	4.121	(0.986)	19462	2.00000	2.14(aH)
142	Tetrahydrofuran	42	3.866	3.866	(0.925)	5657	4.00000	4.20(a)
147	Methylcyclohexane	55	5.370	5.370	(1.082)	31142	2.00000	1.81(aM)
135	1,4-Dioxane	88	5.617	5.617	(1.343)	2323	40.0000	37.36(M)
132	n-Butanol	56	5.362	5.362	(1.282)	7443	40.0000	42.73(aM)
131	Methyl Acrylate	55	3.743	3.743	(0.895)	13406	2.00000	1.88(aM)
133	Ethyl Acrylate	55	5.370	5.370	(1.284)	31450	2.00000	1.81(M)
136	n-Hexane	57	2.768	2.768	(0.662)	11984	2.00000	1.88(aM)
139	Diethyl ether	59	1.760	1.760	(0.421)	10716	2.00000	2.19(a)
148	Tert-butyl alcohol	59	2.442	2.442	(0.584)	29280	40.0000	44.33(M)
149	Isopropyl alcohol	45	2.097	2.097	(0.502)	17366	40.0000	42.37(T)
156	Diisopropyl ether	45	3.008	3.008	(0.719)	43282	2.00000	2.00(Ta)
166	1,2,3-Trimethylbenzene	105	9.733	9.733	(1.007)	31731	2.00000	1.73(a)
167	Ethanol	45	1.711	1.711	(0.409)	3219	40.0000	26.14(M)
172	tert-Butyl formate	59	4.635	4.635	(1.108)	23857	4.00000	4.26(aM)
173	3,3-Dimethyl-1-butanol	57	7.293	7.293	(0.951)	33143	40.0000	41.61
174	tert-Amyl methyl ether	73	4.672	4.672	(1.117)	31345	2.00000	1.82(aM)
175	tert-Butyl ethyl ether	59	3.383	3.383	(0.809)	42907	2.00000	1.93(a)
176	tert-Amyl alcohol	59	4.635	4.635	(1.108)	29185	40.0000	51.05
151	4-Methyl-2-pentanol	45	6.723	6.723	(1.354)	72210	40.0000	41.53(M)
180	1-Methylnaphthalene	142	12.649	12.649	(1.309)	14828	2.00000	(a)
140	1,3-Butadiene	54	1.167	1.167	(0.279)	15351	2.00000	2.28(aM)
152	Amyl alcohol	42	6.933	6.933	(0.904)	8579	40.0000	40.28(M)
158	Dichlorofluoromethane	67	1.535	1.535	(0.367)	17587	2.00000	2.08
159	Propylene oxide	43	1.805	1.805	(0.432)	2798	4.00000	4.35(a)
161	3-Methyl-1-butanol	55	6.929	6.929	(0.904)	5263	40.0000	28.86
162	Butyl acrylate	55	8.267	8.267	(1.078)	25518	2.00000	1.81(a)
163	Butyl methacrylate	41	9.178	9.178	(0.950)	19072	2.00000	2.01(a)
164	Dicyclopentadiene	66	9.681	9.681	(1.002)	44874	2.00000	1.97(a)
182	Epichlorohydrin	57	6.112	6.112	(1.231)	4808	8.00000	7.93
M 94	1,2-Dichloroethylene (total)	96				21048	4.00000	(a)
130	Ethyl Acetate	43	3.683	3.683	(0.881)	15481	2.00000	1.99(TaM)
134	Cyclohexanone	55	8.646	8.646	(0.895)	15113	40.0000	43.00(a)
185	Isoprene	39	1.771	1.771	(0.424)	3408	2.00000	1.97(aM)
188	Isopropyl acetate	43	4.684	4.684	(0.943)	48167	2.00000	2.25(a)
187	n-Amyl acetate	43	8.462	8.462	(1.104)	26886	2.00000	1.98(aM)

189 n-Butyl acetate	43	7.225	7.225 (0.942)	20825	2.00000	1.83(aM)
150 Allyl alcohol	57	2.768	2.768 (0.662)	14314	40.0000	46.26

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)
194 Acetaldehyde	44	1.212	1.212	(0.290)	8114	8.00000	(aM)
195 Methyl Amyl Ketone	43	8.391	8.391	(1.094)	28766	2.00000	1.85(a)
200 Dimethyl Disulfide	94	6.202	6.202	(0.809)	17864	2.00000	1.78(a)
202 Isobutylene	41	1.246	1.246	(0.298)	1654	2.00000	1.91(aM)
205 2-Ethylhexyl Acrylate	55	11.559	11.559	(1.196)	18101	2.00000	1.79(aM)

QC Flag Legend

T - Target compound detected outside RT window.
a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.



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Sample Info: VSTD002;VSTD002;1;4;
Purge Volume: 5.0
Column phase: DB624

Instrument: voa6.i
Operator: PC
Column diameter: 0.18

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Inj Date : 14-JUL-2023 13:23
InstruID : voa6.i
LabSampID : VSTD002

Dichlorodifluoromethane (75-71-8)

Reason Code:

BEFORE
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20-Jul-2023
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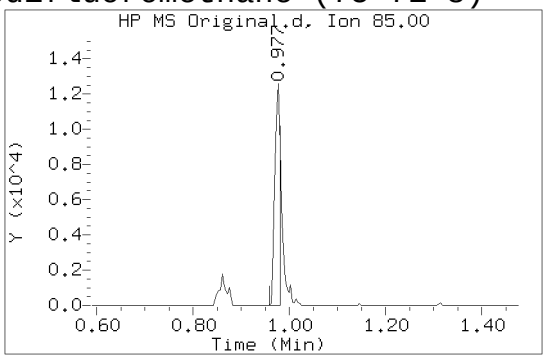

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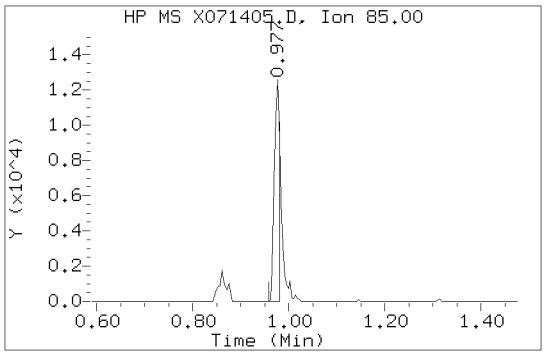

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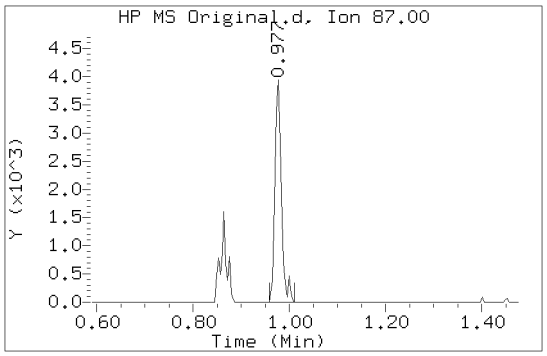

AFTER
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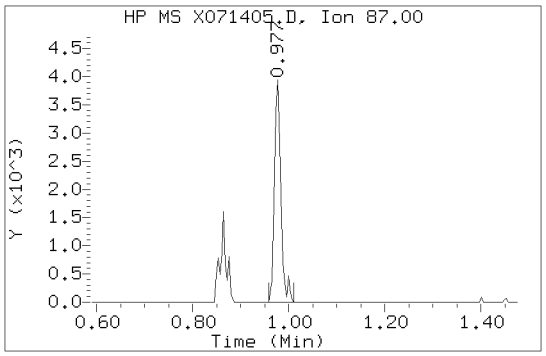
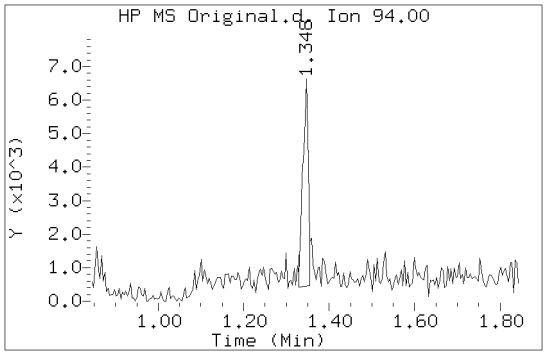
linh
pham



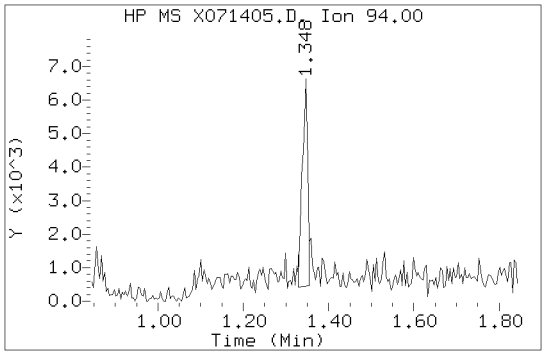
Bromomethane (74-83-9)

Reason Code:

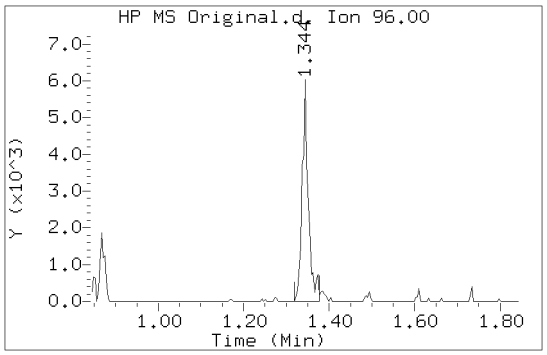
BEFORE
MASS
94
AREA
5769
HEIGHT
6185
20-Jul-2023
15:04
linh
pham



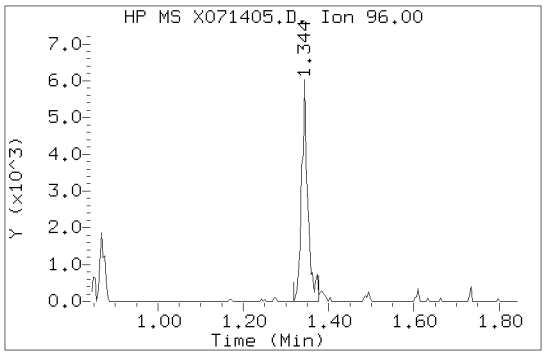
AFTER
MASS
94
AREA
5769
HEIGHT
6185
20-Jul-2023
15:04
linh
pham



BEFORE
MASS
96
AREA
6298
HEIGHT
6030
20-Jul-2023
15:04
linh
pham



AFTER
MASS
96
AREA
6298
HEIGHT
6030
20-Jul-2023
15:04
linh
pham



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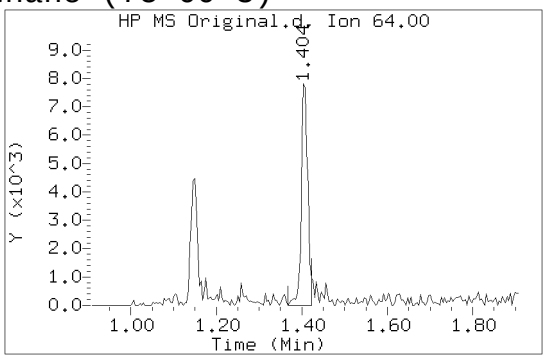
Inj Date : 14-JUL-2023 13:23
InstruID : voa6.i
LabSampID : VSTD002

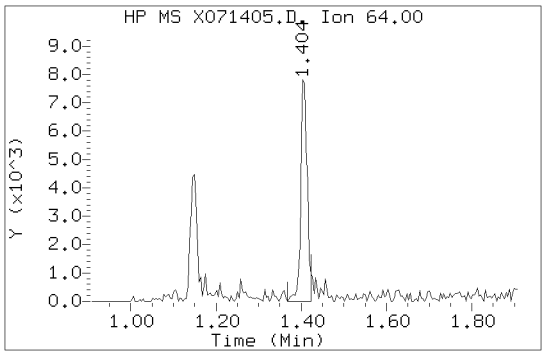
Chloroethane (75-00-3)

Reason Code:

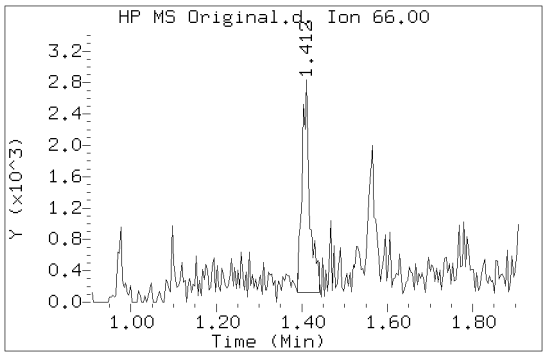
BEFORE
MASS
64
AREA
8482
HEIGHT
7815
20-Jul-2023
15:04
linh
pham



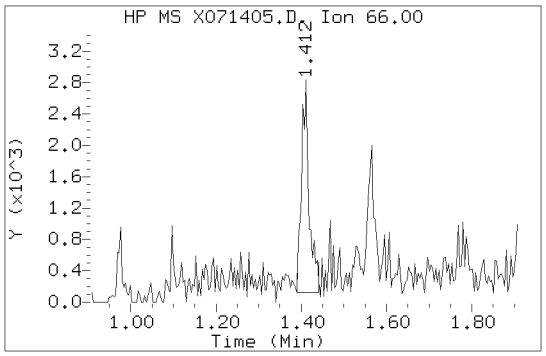
AFTER
MASS
64
AREA
8482
HEIGHT
7815
20-Jul-2023
15:04
linh
pham



BEFORE
MASS
66
AREA
3417
HEIGHT
2715
20-Jul-2023
15:04
linh
pham



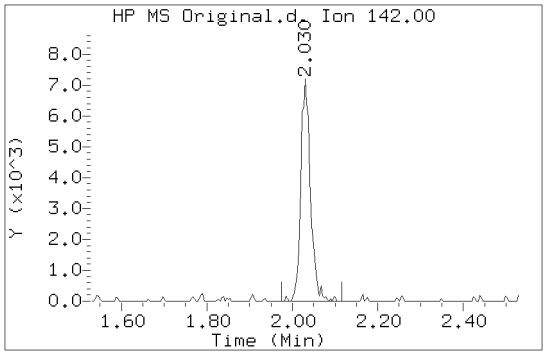
AFTER
MASS
66
AREA
3417
HEIGHT
2715
20-Jul-2023
15:04
linh
pham



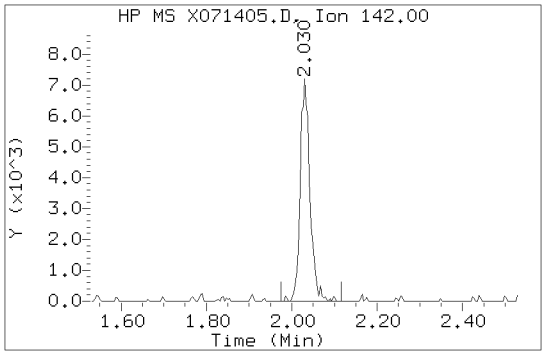
Iodomethane (74-88-4)

Reason Code:

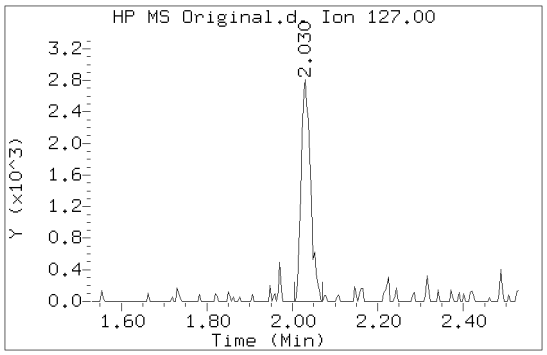
BEFORE
MASS
142
AREA
11682
HEIGHT
7198
20-Jul-2023
15:04
linh
pham



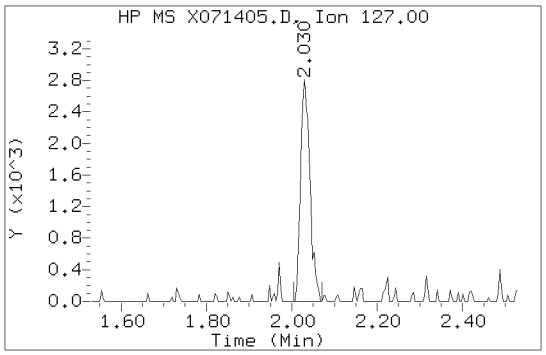
AFTER
MASS
142
AREA
11682
HEIGHT
7198
20-Jul-2023
15:04
linh
pham



BEFORE
MASS
127
AREA
4403
HEIGHT
2808
20-Jul-2023
15:04
linh
pham



AFTER
MASS
127
AREA
4403
HEIGHT
2808
20-Jul-2023
15:04
linh
pham



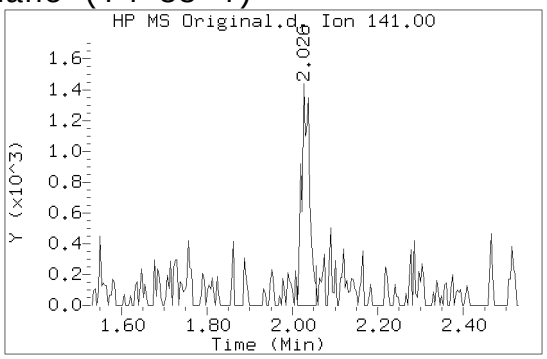
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230714.b\X071405.D
Inj Date : 14-JUL-2023 13:23
InstruID : voa6.i
LabSampID : VSTD002

Iodomethane (74-88-4)

Reason Code:

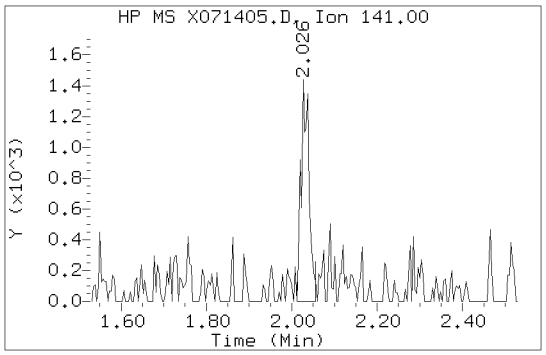
BEFORE

MASS
141
AREA
1902
HEIGHT
1439
20-Jul-2023
15:04
linh
pham



AFTER

MASS
141
AREA
1902
HEIGHT
1439
20-Jul-2023
15:04
linh
pham

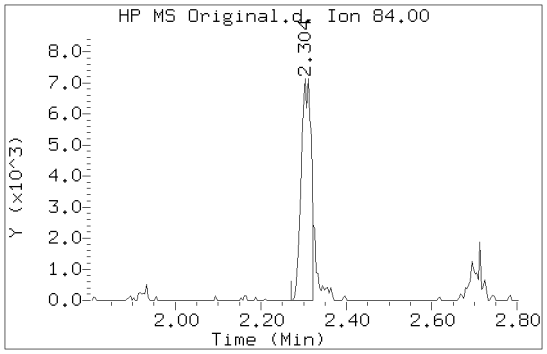


Methylene Chloride (75-09-2)

Reason Code:

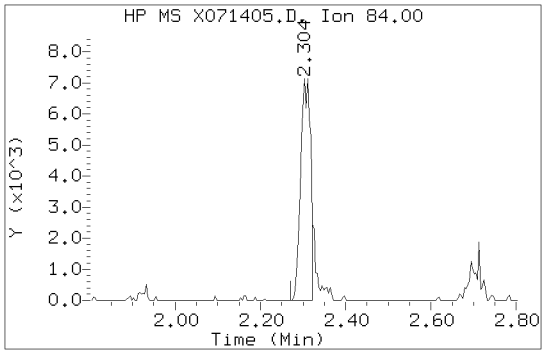
BEFORE

MASS
84
AREA
11880
HEIGHT
7134
20-Jul-2023
15:04
linh
pham



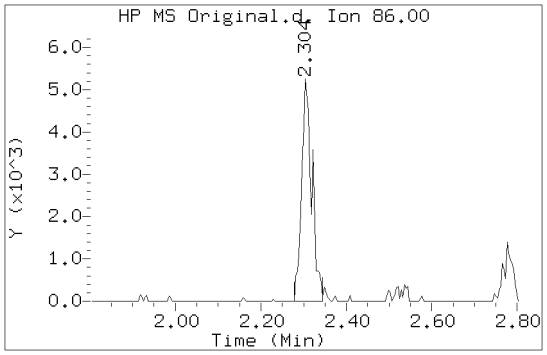
AFTER

MASS
84
AREA
11880
HEIGHT
7134
20-Jul-2023
15:04
linh
pham



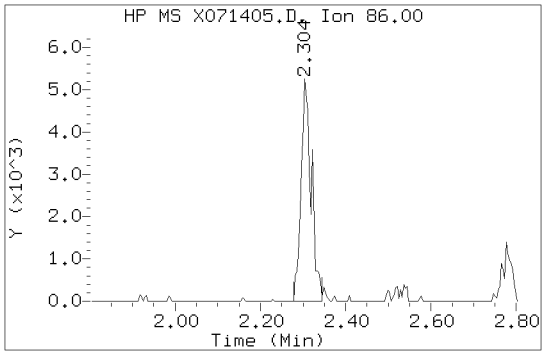
BEFORE

MASS
86
AREA
8944
HEIGHT
5254
20-Jul-2023
15:04
linh
pham



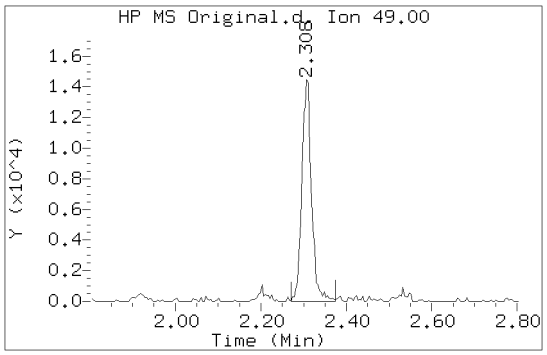
AFTER

MASS
86
AREA
8944
HEIGHT
5254
20-Jul-2023
15:04
linh
pham



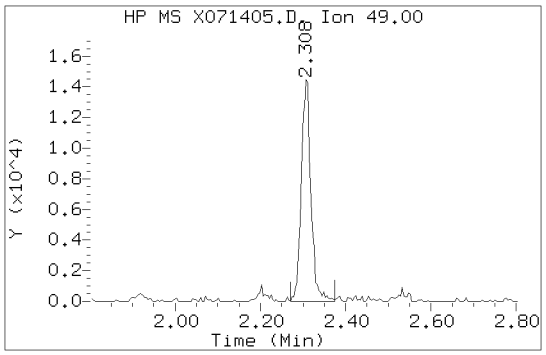
BEFORE

MASS
49
AREA
23277
HEIGHT
14471
20-Jul-2023
15:04
linh
pham



AFTER

MASS
49
AREA
23277
HEIGHT
14471
20-Jul-2023
15:04
linh
pham

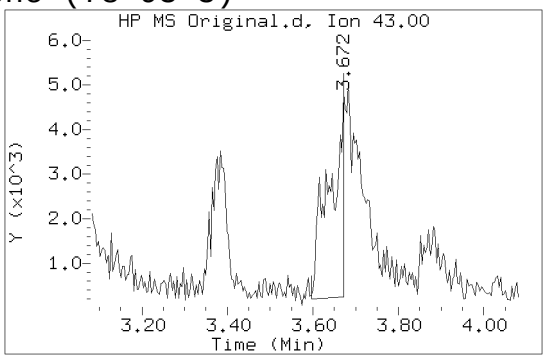


Data File : \\NAHSTWS005\Target\chem\voa6.i\X230714.b\X071405.D
Inj Date : 14-JUL-2023 13:23
InstruID : voa6.i
LabSampID : VSTD002

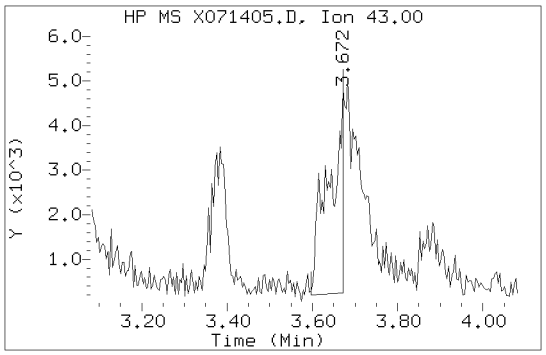
2-Butanone (78-93-3)

Reason Code:

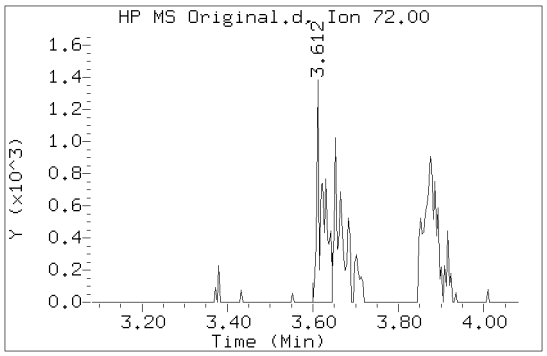
BEFORE
MASS
43
AREA
10454
HEIGHT
4589
20-Jul-2023
15:04
linh
pham



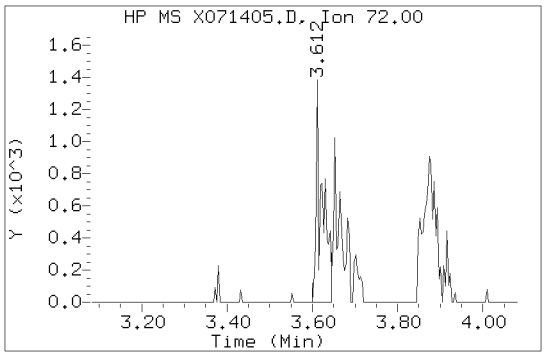
AFTER
MASS
43
AREA
10454
HEIGHT
4589
20-Jul-2023
15:04
linh
pham



BEFORE
MASS
72
AREA
1388
HEIGHT
1384
20-Jul-2023
15:04
linh
pham



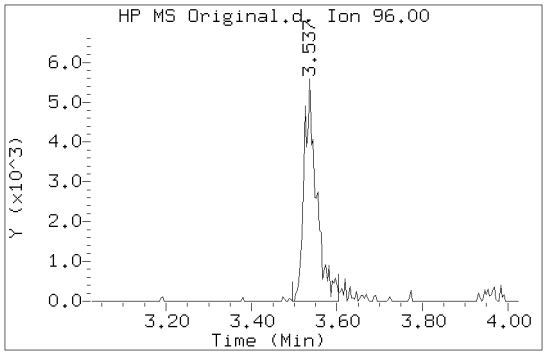
AFTER
MASS
72
AREA
1388
HEIGHT
1384
20-Jul-2023
15:04
linh
pham



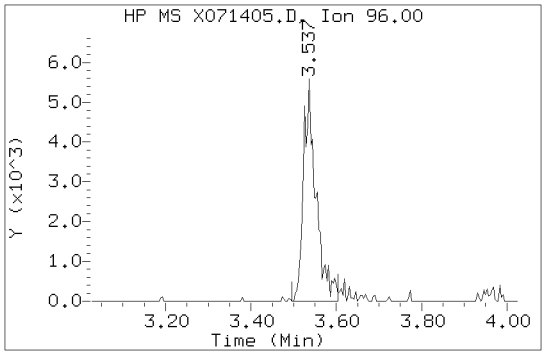
cis-1,2-Dichloroethene (156-59-2)

Reason Code:

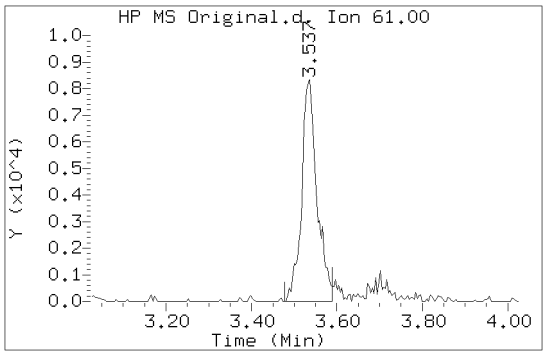
BEFORE
MASS
96
AREA
11533
HEIGHT
5587
20-Jul-2023
15:04
linh
pham



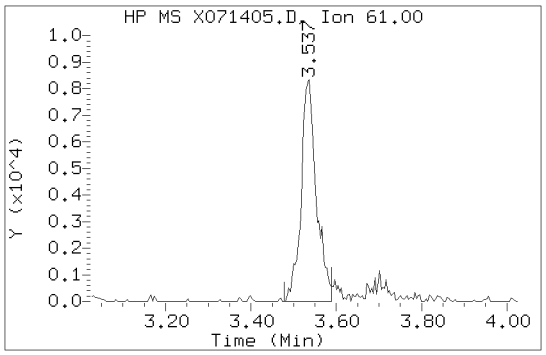
AFTER
MASS
96
AREA
11533
HEIGHT
5587
20-Jul-2023
15:04
linh
pham



BEFORE
MASS
61
AREA
21081
HEIGHT
8339
20-Jul-2023
15:04
linh
pham



AFTER
MASS
61
AREA
21081
HEIGHT
8339
20-Jul-2023
15:04
linh
pham



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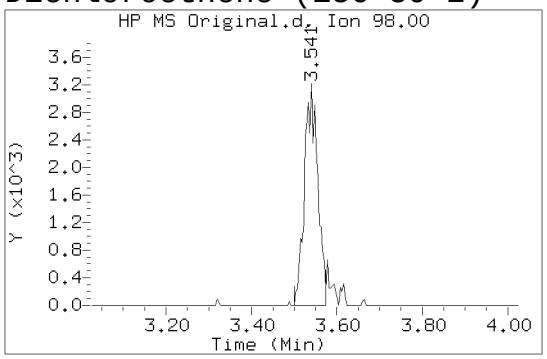
Inj Date : 14-JUL-2023 13:23
InstruID : voa6.i
LabSampID : VSTD002

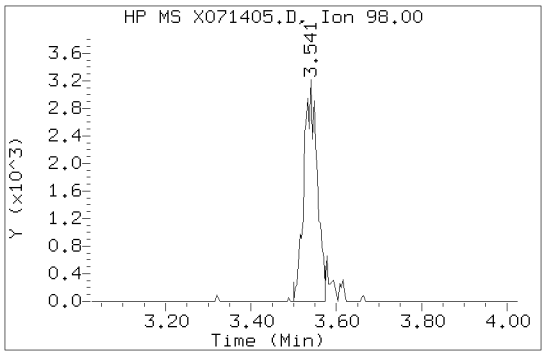
cis-1,2-Dichloroethene (156-59-2)

Reason Code:

BEFORE
MASS
98
AREA
6988
HEIGHT
3216
20-Jul-2023
15:04
linh
pham



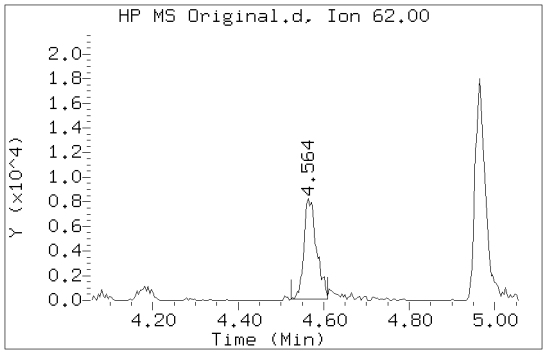
AFTER
MASS
98
AREA
6988
HEIGHT
3216
20-Jul-2023
15:04
linh
pham



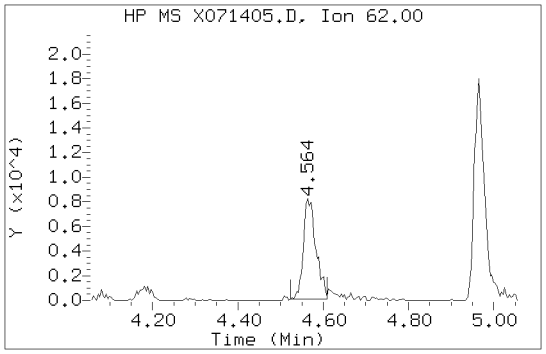
1,2-Dichloroethane (107-06-2)

Reason Code:

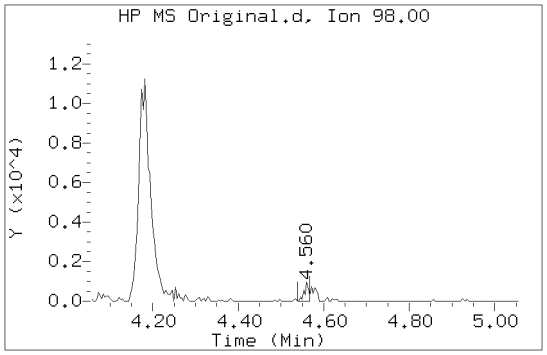
BEFORE
MASS
62
AREA
16880
HEIGHT
8150
20-Jul-2023
15:04
linh
pham



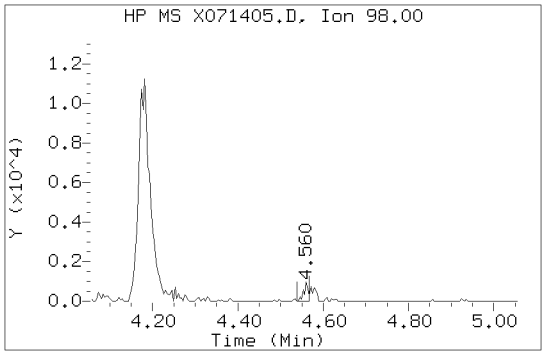
AFTER
MASS
62
AREA
16880
HEIGHT
8150
20-Jul-2023
15:04
linh
pham



BEFORE
MASS
98
AREA
708
HEIGHT
981
20-Jul-2023
15:04
linh
pham



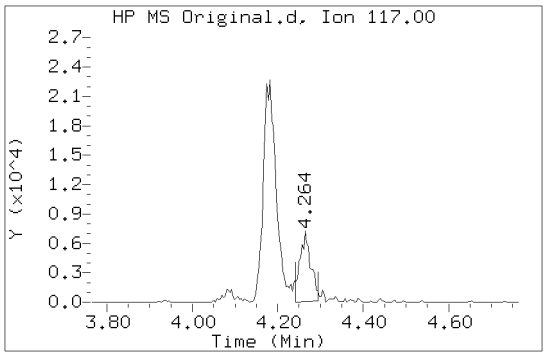
AFTER
MASS
98
AREA
708
HEIGHT
981
20-Jul-2023
15:04
linh
pham



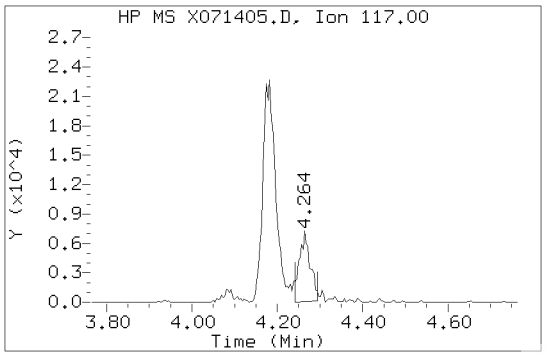
Carbon Tetrachloride (56-23-5)

Reason Code:

BEFORE
MASS
117
AREA
13047
HEIGHT
7258
20-Jul-2023
15:04
linh
pham



AFTER
MASS
117
AREA
13047
HEIGHT
7258
20-Jul-2023
15:04
linh
pham



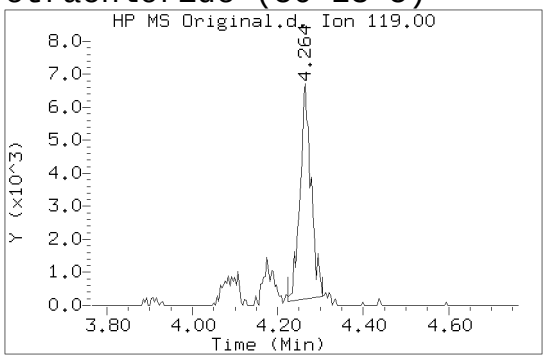
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230714.b\X071405.D
Inj Date : 14-JUL-2023 13:23
InstruID : voa6.i
LabSampID : VSTD002

Carbon Tetrachloride (56-23-5)

Reason Code:

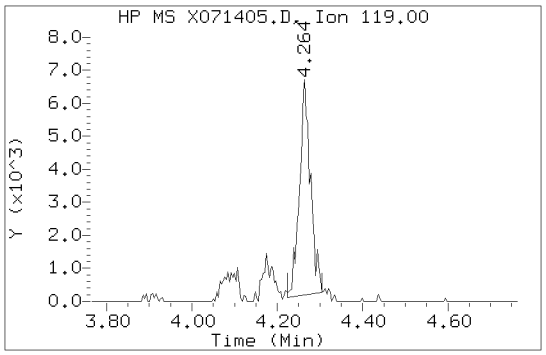
BEFORE

MASS
119
AREA
11949
HEIGHT
6520
20-Jul-2023
15:04
linh
pham



AFTER

MASS
119
AREA
11949
HEIGHT
6520
20-Jul-2023
15:04
linh
pham

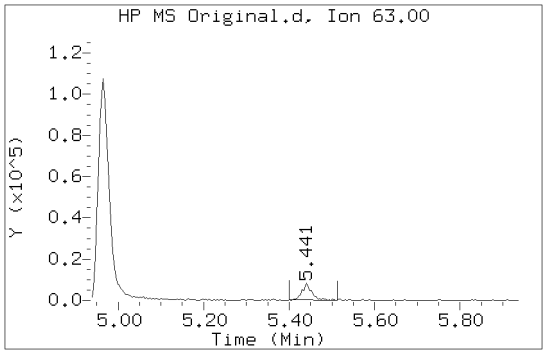


1,2-Dichloropropane (78-87-5)

Reason Code:

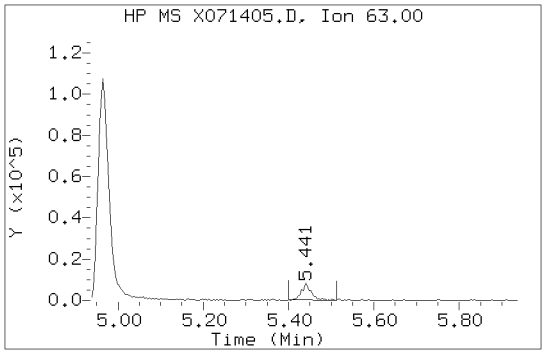
BEFORE

MASS
63
AREA
12678
HEIGHT
8183
20-Jul-2023
15:04
linh
pham



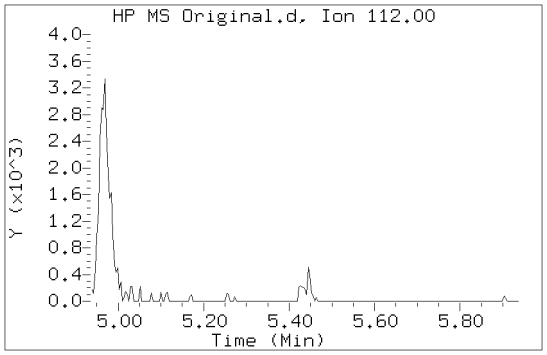
AFTER

MASS
63
AREA
12678
HEIGHT
8183
20-Jul-2023
15:04
linh
pham



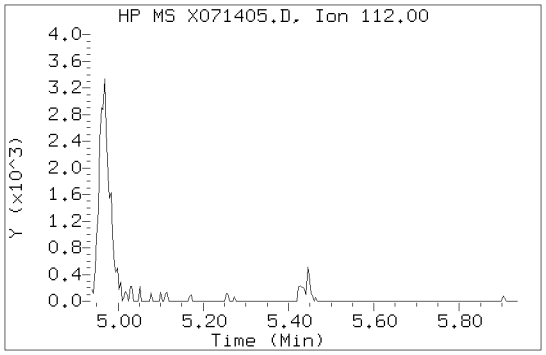
BEFORE

MASS
112
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham



AFTER

MASS
112
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham

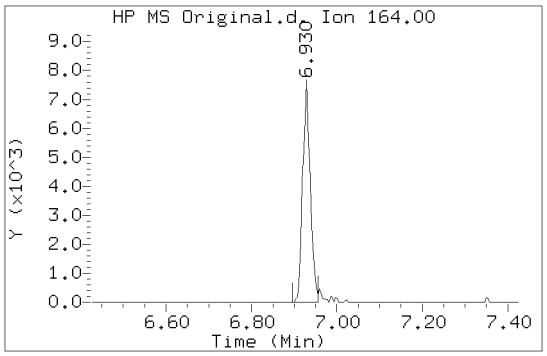


Tetrachloroethene (127-18-4)

Reason Code:

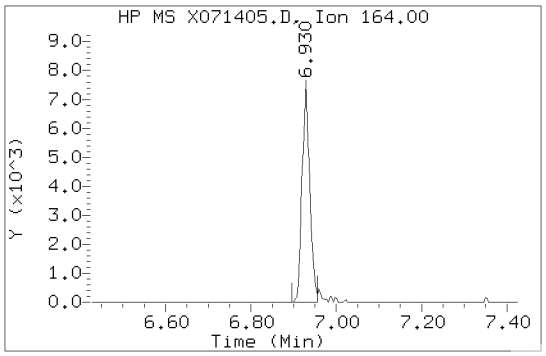
BEFORE

MASS
164
AREA
9711
HEIGHT
7674
20-Jul-2023
15:04
linh
pham



AFTER

MASS
164
AREA
9711
HEIGHT
7674
20-Jul-2023
15:04
linh
pham



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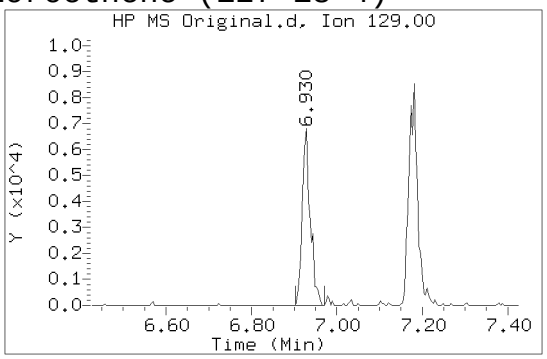
Inj Date : 14-JUL-2023 13:23
InstruID : voa6.i
LabSampID : VSTD002

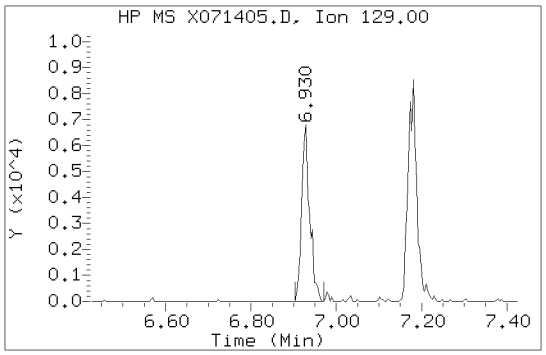
Tetrachloroethene (127-18-4)

Reason Code:

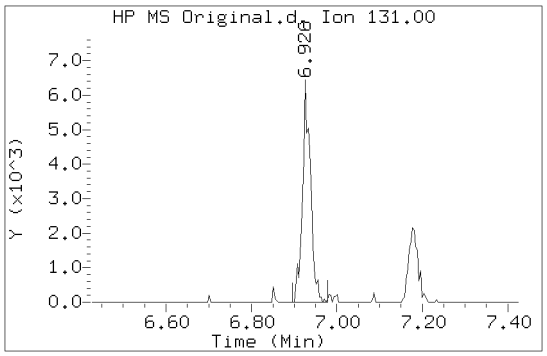
BEFORE
MASS
129
AREA
9180
HEIGHT
6806
20-Jul-2023
15:04
linh
pham



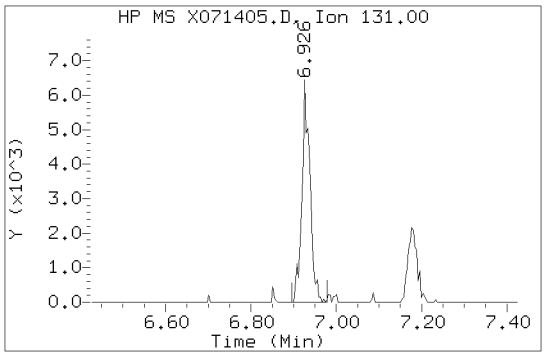
AFTER
MASS
129
AREA
9180
HEIGHT
6806
20-Jul-2023
15:04
linh
pham



BEFORE
MASS
131
AREA
8692
HEIGHT
6442
20-Jul-2023
15:04
linh
pham



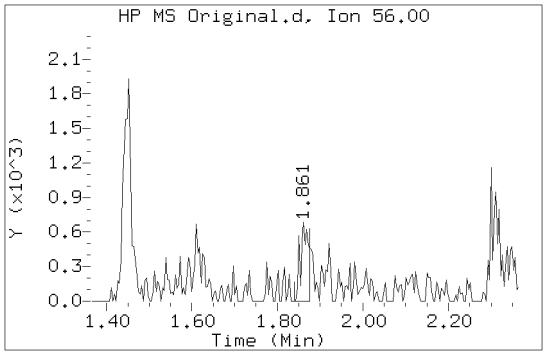
AFTER
MASS
131
AREA
8692
HEIGHT
6442
20-Jul-2023
15:04
linh
pham



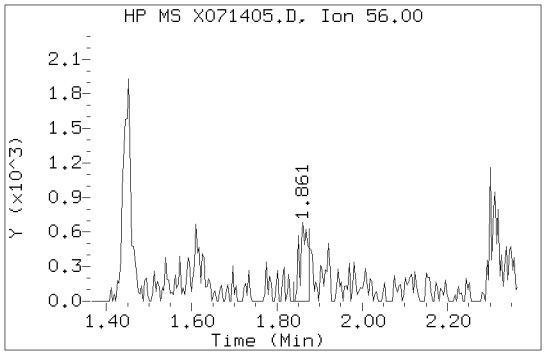
Acrolein (107-02-8)

Reason Code:

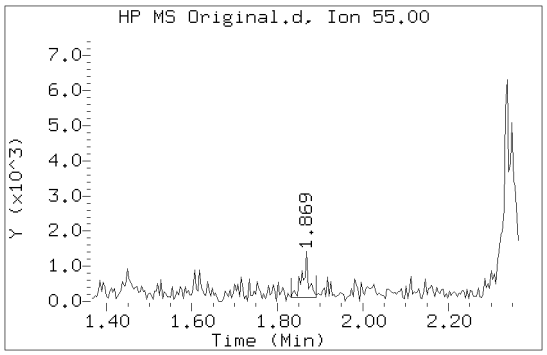
BEFORE
MASS
56
AREA
917
HEIGHT
685
20-Jul-2023
15:04
linh
pham



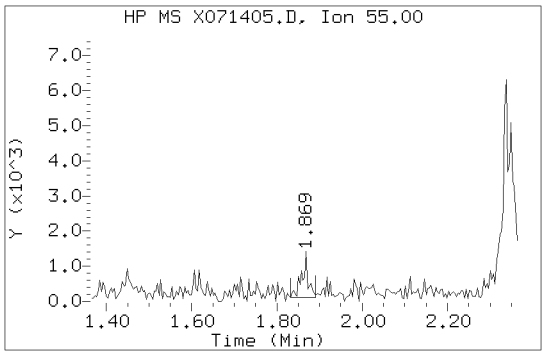
AFTER
MASS
56
AREA
917
HEIGHT
685
20-Jul-2023
15:04
linh
pham



BEFORE
MASS
55
AREA
1362
HEIGHT
1313
20-Jul-2023
15:04
linh
pham



AFTER
MASS
55
AREA
1362
HEIGHT
1313
20-Jul-2023
15:04
linh
pham



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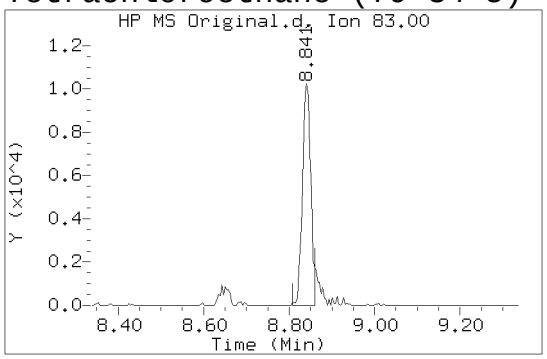
Inj Date : 14-JUL-2023 13:23
InstruID : voa6.i
LabSampID : VSTD002

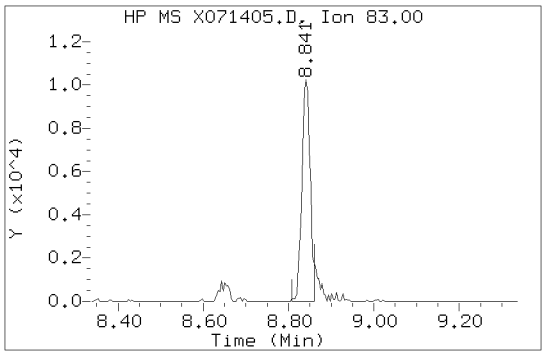
1,1,2,2-Tetrachloroethane (79-34-5)

Reason Code:

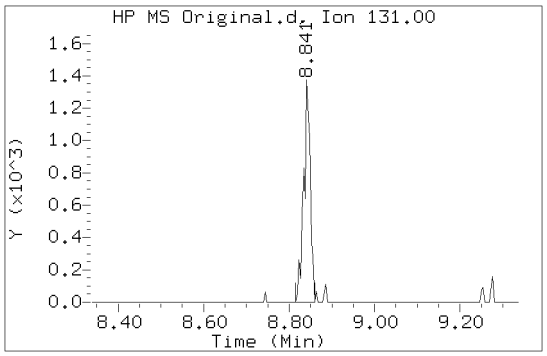
BEFORE
MASS
83
AREA
14352
HEIGHT
10244
20-Jul-2023
15:04
linh
pham



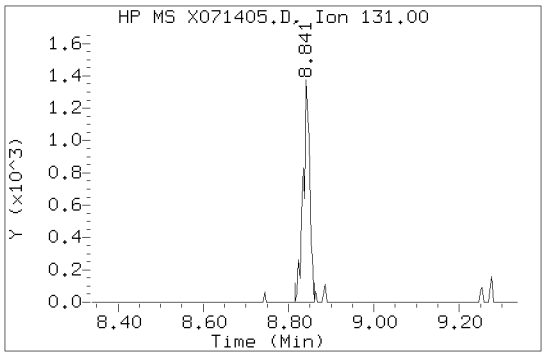
AFTER
MASS
83
AREA
14352
HEIGHT
10244
20-Jul-2023
15:04
linh
pham



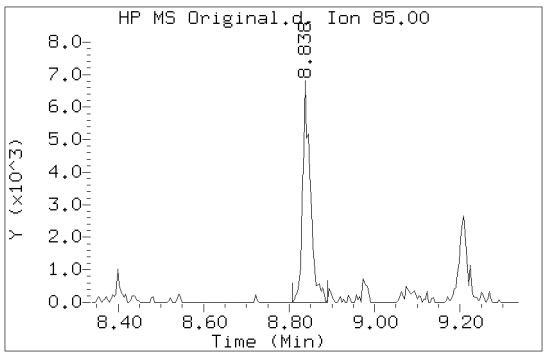
BEFORE
MASS
131
AREA
1498
HEIGHT
1375
20-Jul-2023
15:04
linh
pham



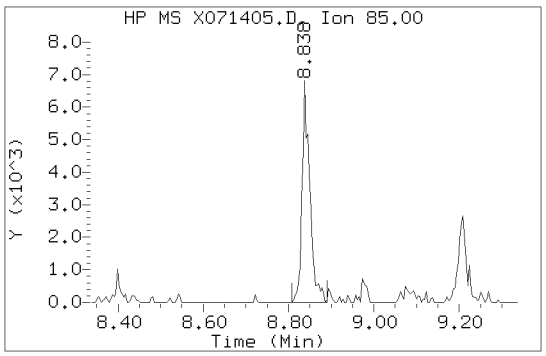
AFTER
MASS
131
AREA
1498
HEIGHT
1375
20-Jul-2023
15:04
linh
pham



BEFORE
MASS
85
AREA
8867
HEIGHT
6812
20-Jul-2023
15:04
linh
pham



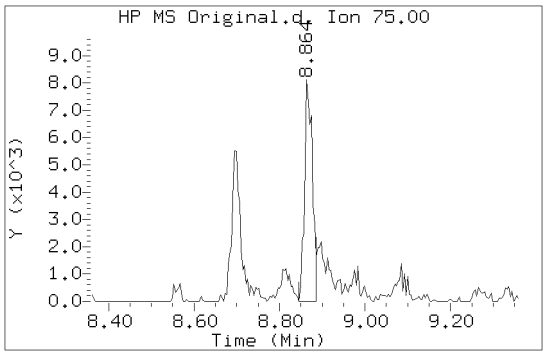
AFTER
MASS
85
AREA
8867
HEIGHT
6812
20-Jul-2023
15:04
linh
pham



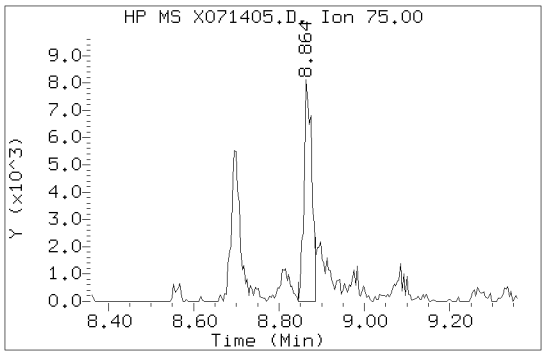
1,2,3-Trichloropropane (96-18-4)

Reason Code:

BEFORE
MASS
75
AREA
10578
HEIGHT
8119
20-Jul-2023
15:04
linh
pham



AFTER
MASS
75
AREA
10578
HEIGHT
8119
20-Jul-2023
15:04
linh
pham



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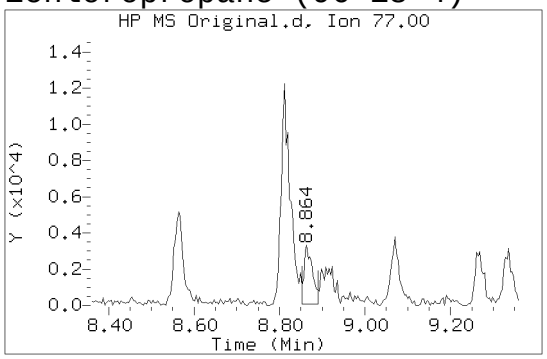
Inj Date : 14-JUL-2023 13:23
InstruID : voa6.i
LabSampID : VSTD002

1,2,3-Trichloropropane (96-18-4)

Reason Code:

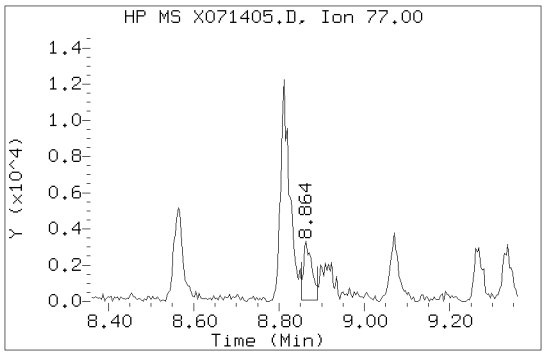
BEFORE

MASS
77
AREA
4616
HEIGHT
3271
20-Jul-2023
15:04
linh
pham



AFTER

MASS
77
AREA
4616
HEIGHT
3271
20-Jul-2023
15:04
linh
pham

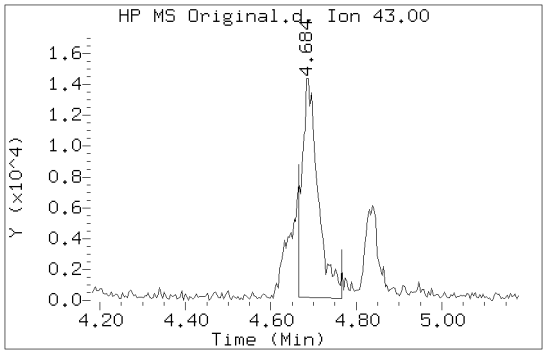


Isobutyl Alcohol (78-83-1)

Reason Code:

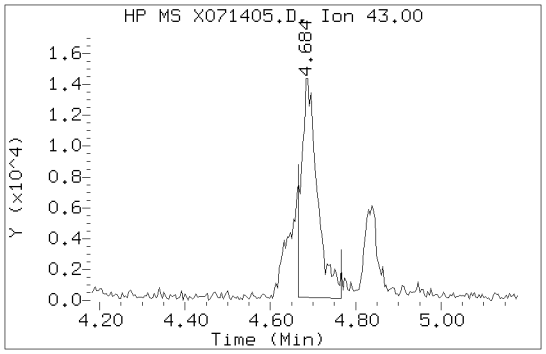
BEFORE

MASS
43
AREA
37832
HEIGHT
14170
20-Jul-2023
15:04
linh
pham



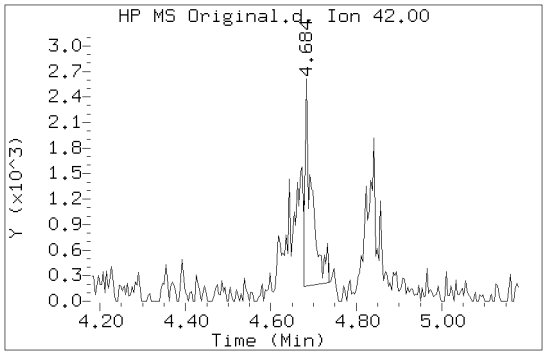
AFTER

MASS
43
AREA
37832
HEIGHT
14170
20-Jul-2023
15:04
linh
pham



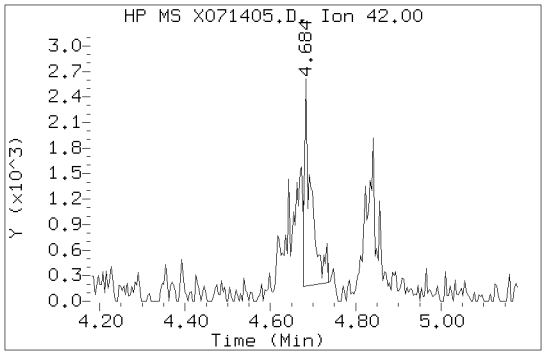
BEFORE

MASS
42
AREA
2790
HEIGHT
2433
20-Jul-2023
15:04
linh
pham



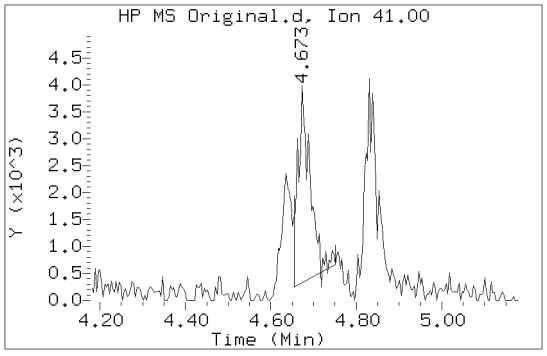
AFTER

MASS
42
AREA
2790
HEIGHT
2433
20-Jul-2023
15:04
linh
pham



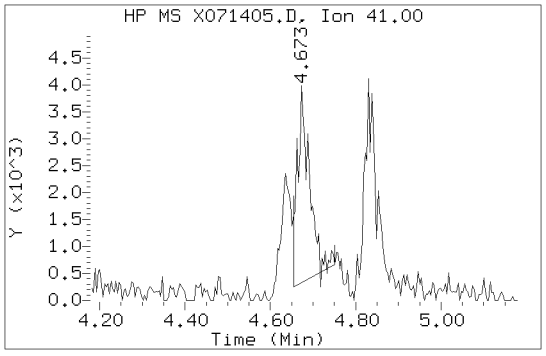
BEFORE

MASS
41
AREA
7292
HEIGHT
3653
20-Jul-2023
15:04
linh
pham



AFTER

MASS
41
AREA
7292
HEIGHT
3653
20-Jul-2023
15:04
linh
pham



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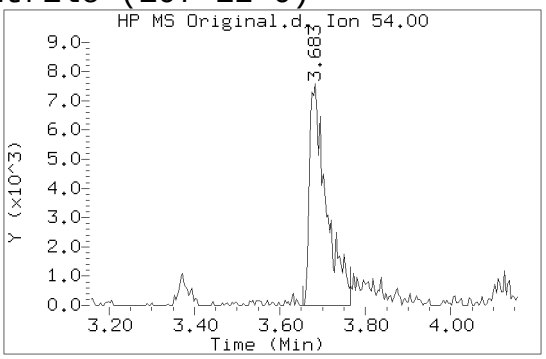
Inj Date : 14-JUL-2023 13:23
InstruID : voa6.i
LabSampID : VSTD002

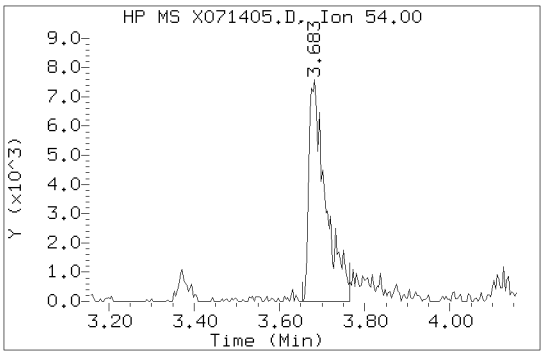
Propionitrile (107-12-0)

Reason Code:

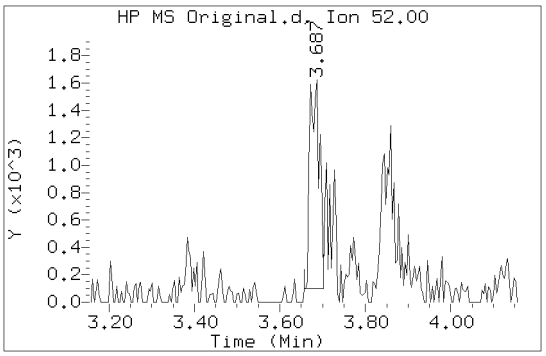
BEFORE
MASS
54
AREA
20667
HEIGHT
7586
20-Jul-2023
15:04
linh
pham



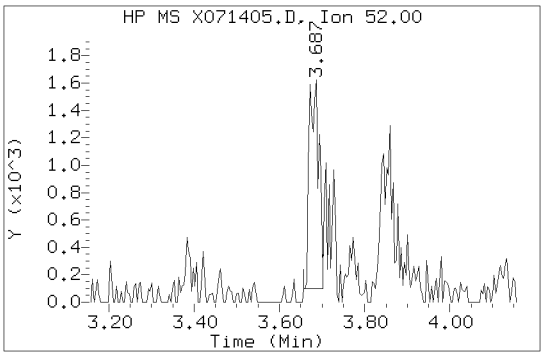
AFTER
MASS
54
AREA
20667
HEIGHT
7586
20-Jul-2023
15:04
linh
pham



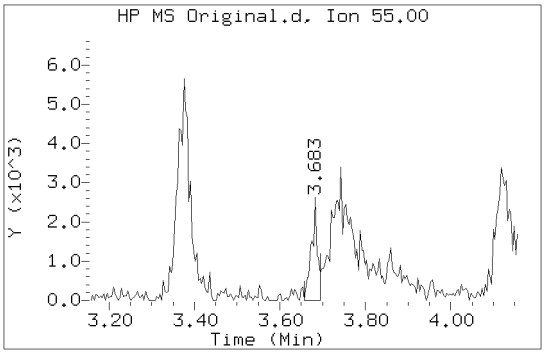
BEFORE
MASS
52
AREA
2370
HEIGHT
1524
20-Jul-2023
15:04
linh
pham



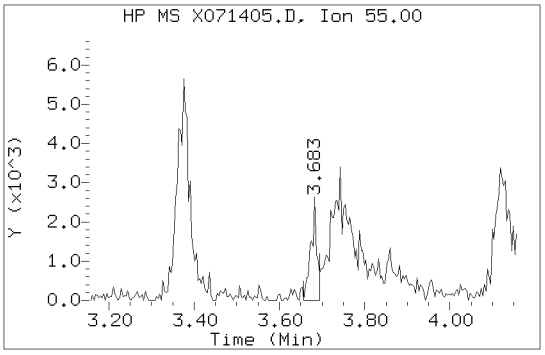
AFTER
MASS
52
AREA
2370
HEIGHT
1524
20-Jul-2023
15:04
linh
pham



BEFORE
MASS
55
AREA
2547
HEIGHT
2627
20-Jul-2023
15:04
linh
pham



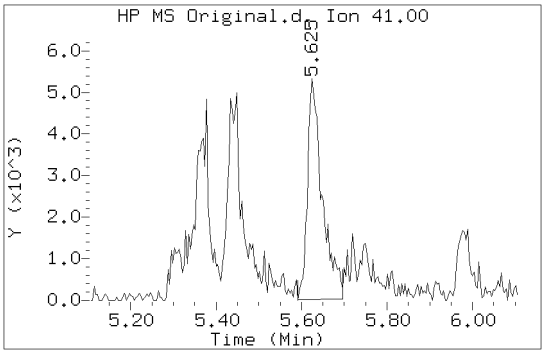
AFTER
MASS
55
AREA
2547
HEIGHT
2627
20-Jul-2023
15:04
linh
pham



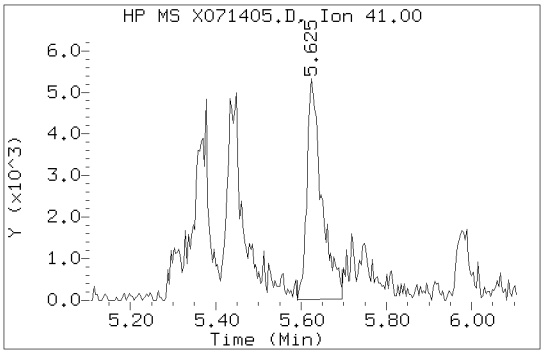
Methyl Methacrylate (80-62-6)

Reason Code:

BEFORE
MASS
41
AREA
12770
HEIGHT
5309
20-Jul-2023
15:04
linh
pham



AFTER
MASS
41
AREA
12770
HEIGHT
5309
20-Jul-2023
15:04
linh
pham



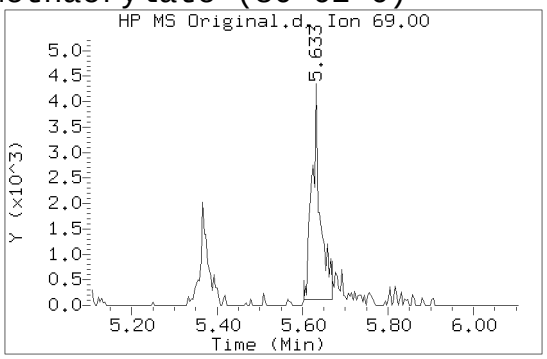
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230714.b\X071405.D
Inj Date : 14-JUL-2023 13:23
InstruID : voa6.i
LabSampID : VSTD002

Methyl Methacrylate (80-62-6)

Reason Code:

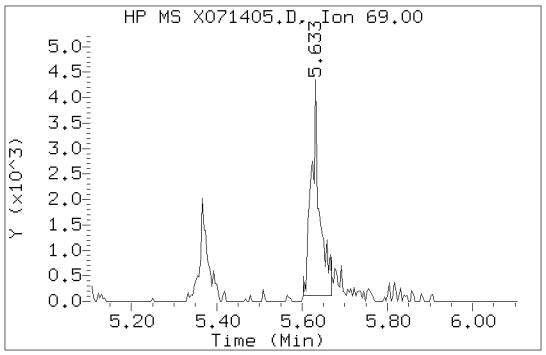
BEFORE

MASS
69
AREA
5709
HEIGHT
4235
20-Jul-2023
15:04
linh
pham



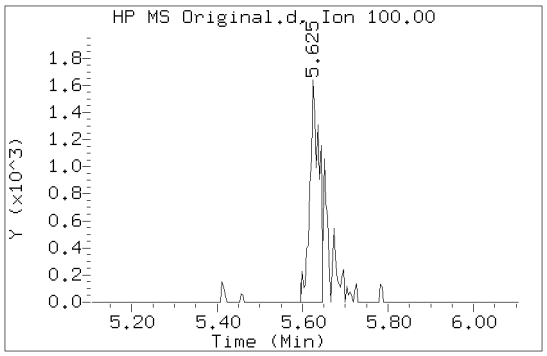
AFTER

MASS
69
AREA
5709
HEIGHT
4235
20-Jul-2023
15:04
linh
pham



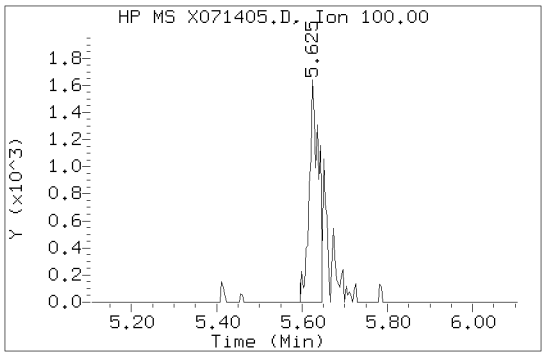
BEFORE

MASS
100
AREA
2452
HEIGHT
1641
20-Jul-2023
15:04
linh
pham



AFTER

MASS
100
AREA
2452
HEIGHT
1641
20-Jul-2023
15:04
linh
pham

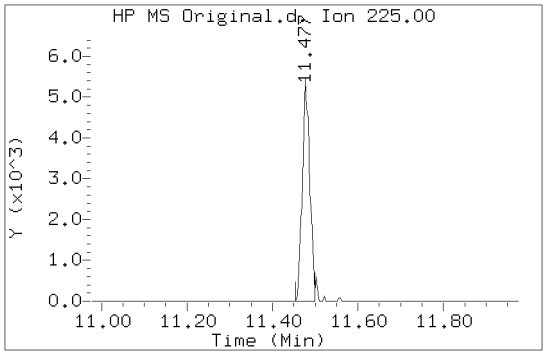


Hexachlorobutadiene (87-68-3)

Reason Code:

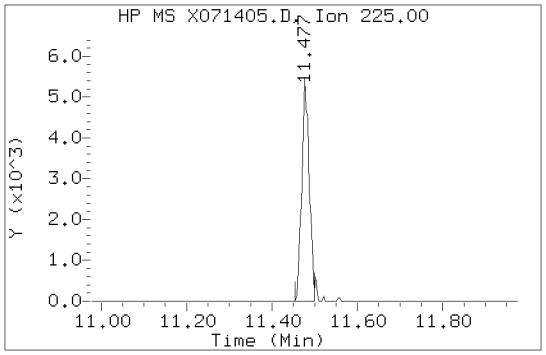
BEFORE

MASS
225
AREA
6844
HEIGHT
5446
20-Jul-2023
15:04
linh
pham



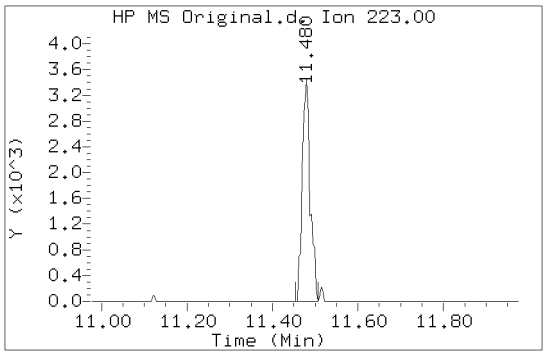
AFTER

MASS
225
AREA
6844
HEIGHT
5446
20-Jul-2023
15:04
linh
pham



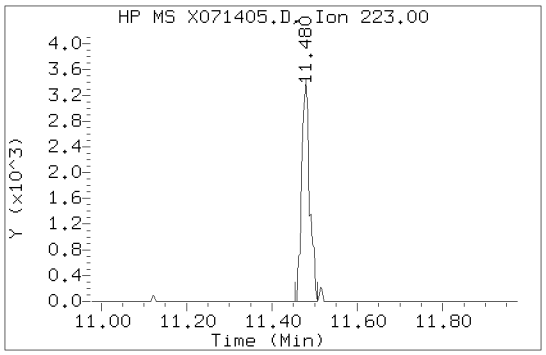
BEFORE

MASS
223
AREA
4606
HEIGHT
3443
20-Jul-2023
15:04
linh
pham



AFTER

MASS
223
AREA
4606
HEIGHT
3443
20-Jul-2023
15:04
linh
pham



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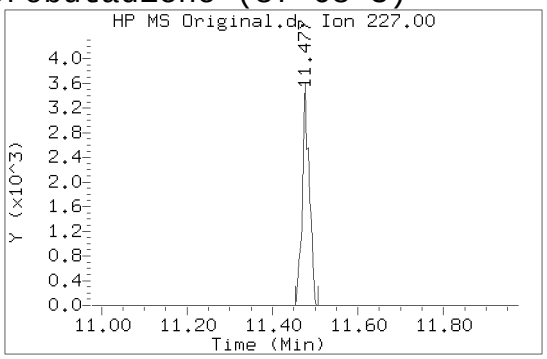
Inj Date : 14-JUL-2023 13:23
InstruID : voa6.i
LabSampID : VSTD002

Hexachlorobutadiene (87-68-3)

Reason Code:

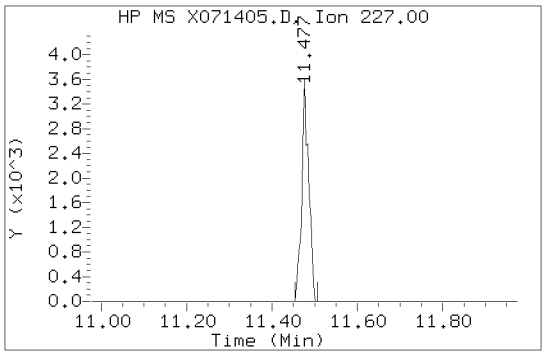
BEFORE

MASS
227
AREA
4231
HEIGHT
3595
20-Jul-2023
15:04
linh
pham



AFTER

MASS
227
AREA
4231
HEIGHT
3595
20-Jul-2023
15:04
linh
pham

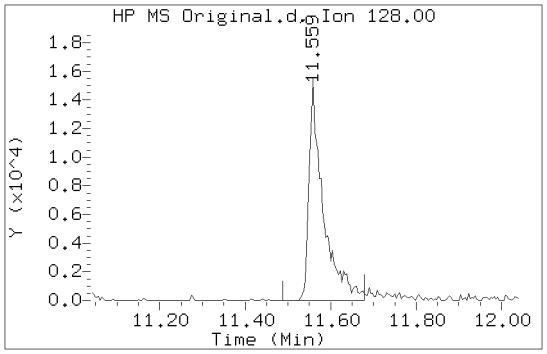


Naphthalene (91-20-3)

Reason Code:

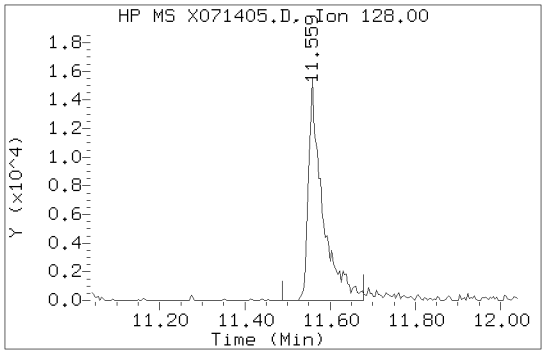
BEFORE

MASS
128
AREA
35806
HEIGHT
15488
20-Jul-2023
15:04
linh
pham



AFTER

MASS
128
AREA
35806
HEIGHT
15488
20-Jul-2023
15:04
linh
pham

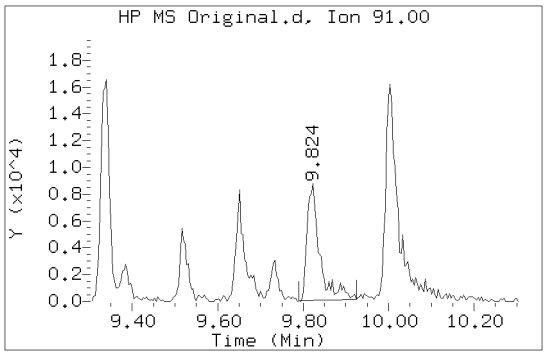


Benzyl Chloride (100-44-7)

Reason Code:

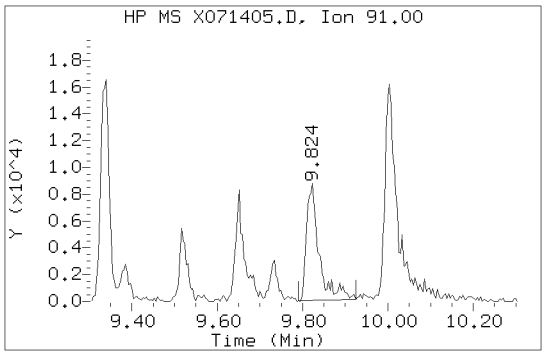
BEFORE

MASS
91
AREA
17851
HEIGHT
8726
20-Jul-2023
15:04
linh
pham



AFTER

MASS
91
AREA
17851
HEIGHT
8726
20-Jul-2023
15:04
linh
pham



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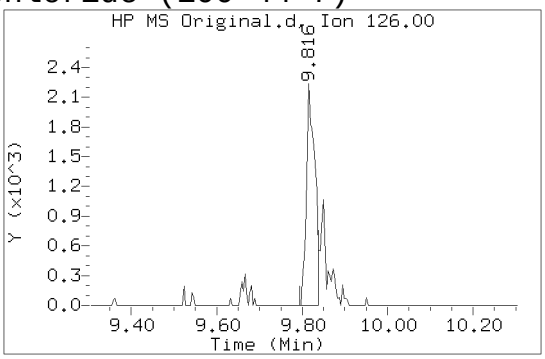
Inj Date : 14-JUL-2023 13:23
InstruID : voa6.i
LabSampID : VSTD002

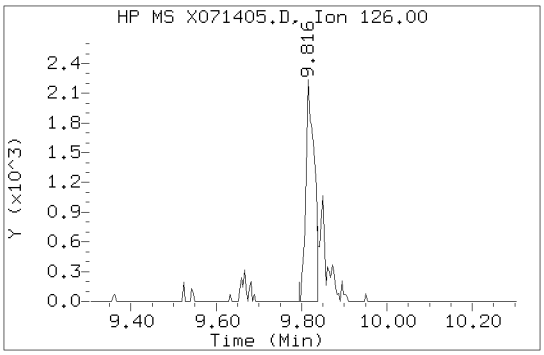
Benzyl Chloride (100-44-7)

Reason Code:

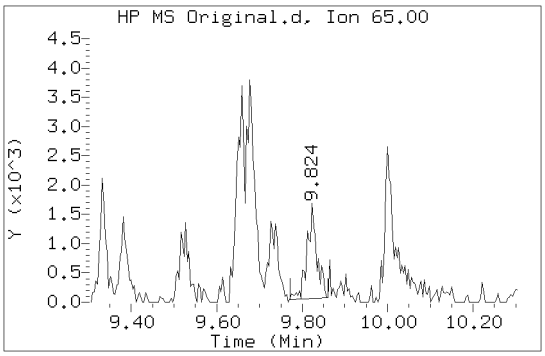
BEFORE
MASS
126
AREA
3073
HEIGHT
2237
20-Jul-2023
15:04
linh
pham



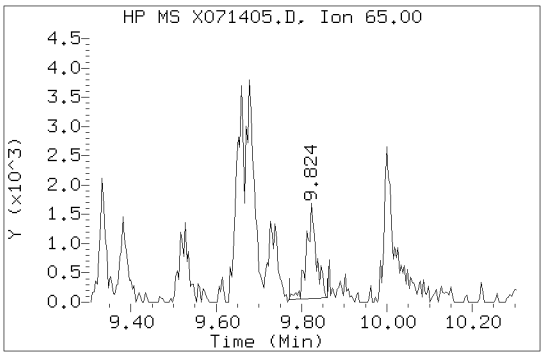
AFTER
MASS
126
AREA
3073
HEIGHT
2237
20-Jul-2023
15:04
linh
pham



BEFORE
MASS
65
AREA
2588
HEIGHT
1635
20-Jul-2023
15:04
linh
pham



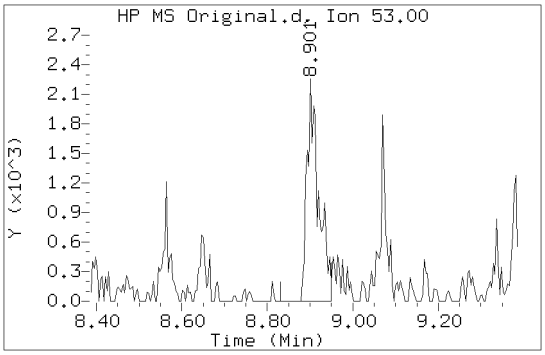
AFTER
MASS
65
AREA
2588
HEIGHT
1635
20-Jul-2023
15:04
linh
pham



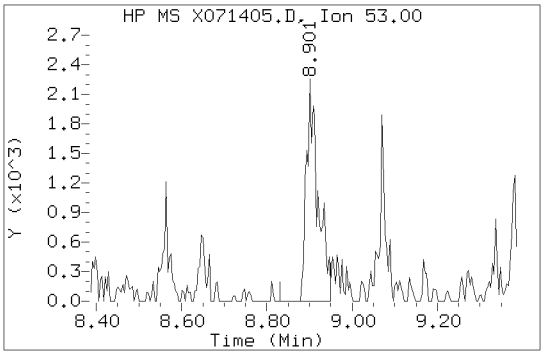
trans-1,4-Dichloro-2-butene (110-57-6)

Reason Code:

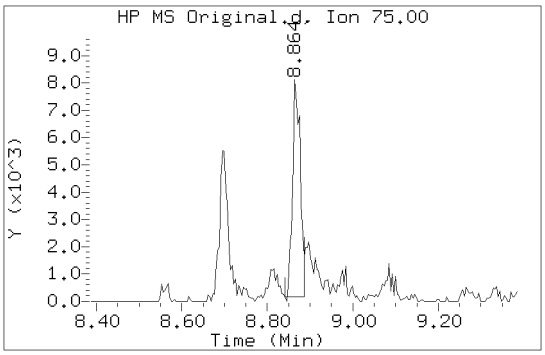
BEFORE
MASS
53
AREA
4279
HEIGHT
2257
20-Jul-2023
15:04
linh
pham



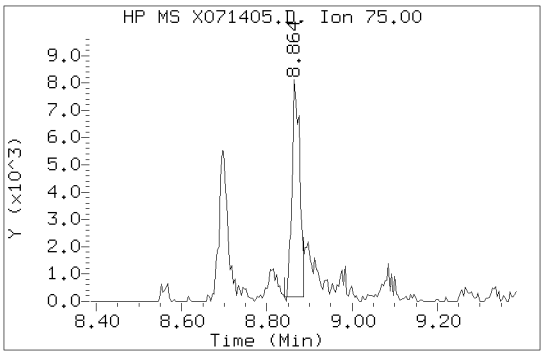
AFTER
MASS
53
AREA
4279
HEIGHT
2257
20-Jul-2023
15:04
linh
pham



BEFORE
MASS
75
AREA
10144
HEIGHT
7958
20-Jul-2023
15:04
linh
pham



AFTER
MASS
75
AREA
10144
HEIGHT
7958
20-Jul-2023
15:04
linh
pham



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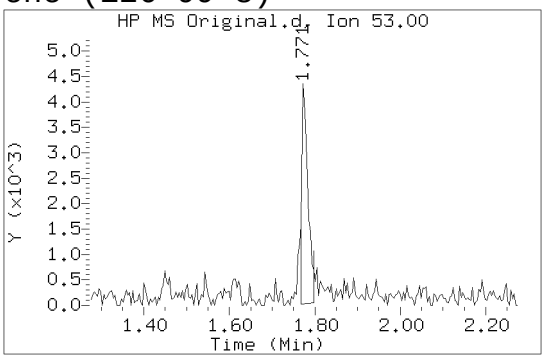
Inj Date : 14-JUL-2023 13:23
InstruID : voa6.i
LabSampID : VSTD002

Chloroprene (126-99-8)

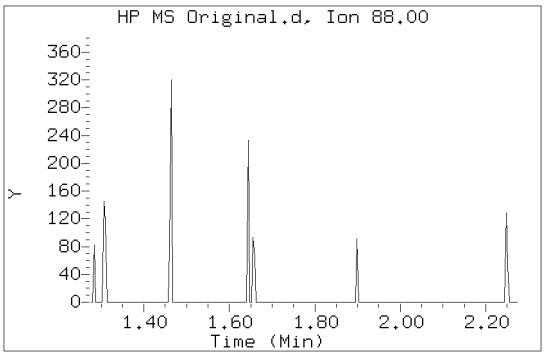
BEFORE

MASS
53
AREA
4560
HEIGHT
4328
20-Jul-2023
15:04
linh
pham



BEFORE

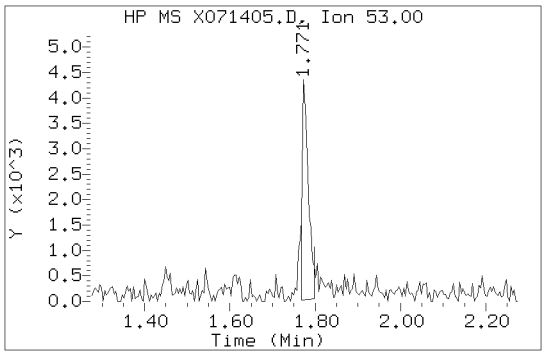
MASS
88
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham



Reason Code:

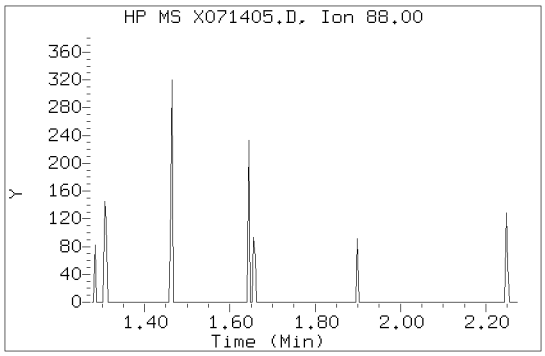
AFTER

MASS
53
AREA
4560
HEIGHT
4328
20-Jul-2023
15:04
linh
pham



AFTER

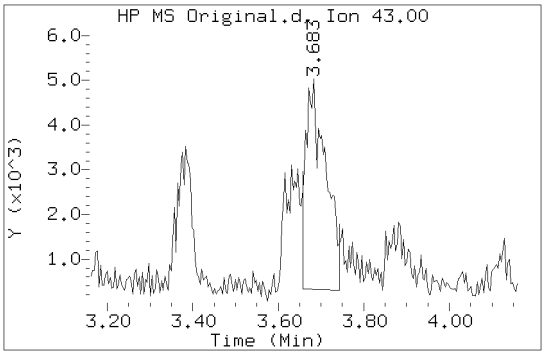
MASS
88
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham



Ethyl Acetate (141-78-6)

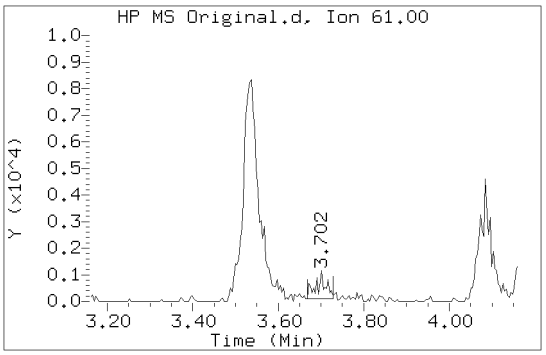
BEFORE

MASS
43
AREA
15481
HEIGHT
4704
20-Jul-2023
15:04
linh
pham



BEFORE

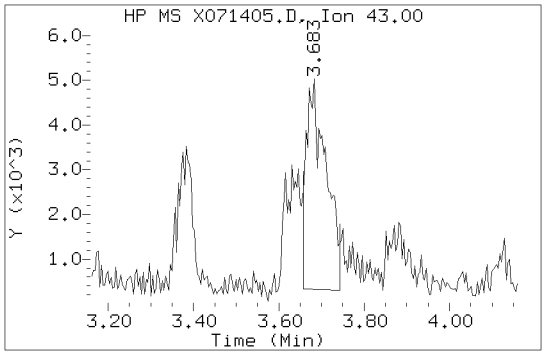
MASS
61
AREA
1598
HEIGHT
1061
20-Jul-2023
15:04
linh
pham



Reason Code:

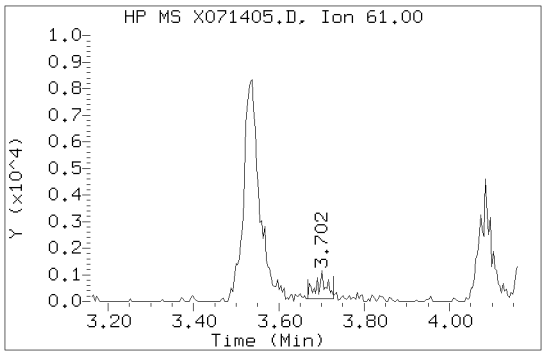
AFTER

MASS
43
AREA
15481
HEIGHT
4704
20-Jul-2023
15:04
linh
pham



AFTER

MASS
61
AREA
1598
HEIGHT
1061
20-Jul-2023
15:04
linh
pham



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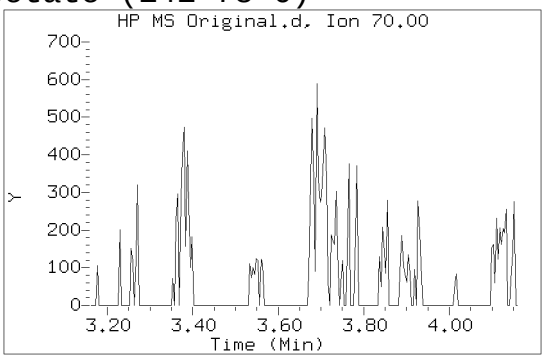
Inj Date : 14-JUL-2023 13:23
InstruID : voa6.i
LabSampID : VSTD002

Ethyl Acetate (141-78-6)

Reason Code:

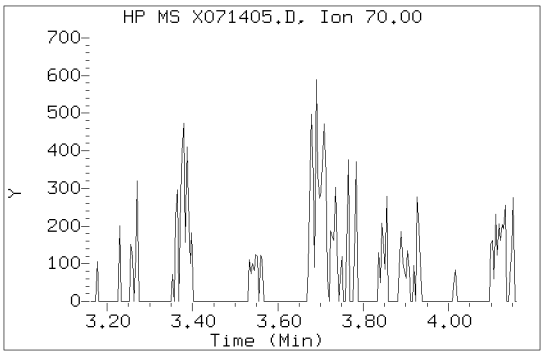
BEFORE

MASS
70
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham



AFTER

MASS
70
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham

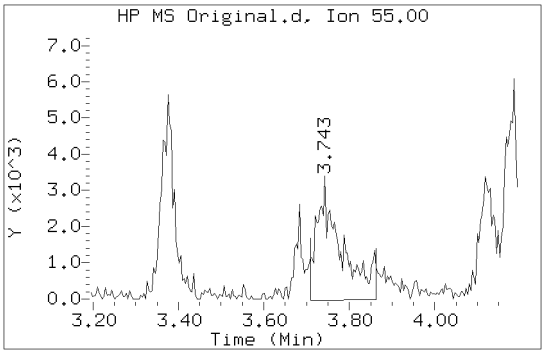


Methyl Acrylate (96-33-3)

Reason Code:

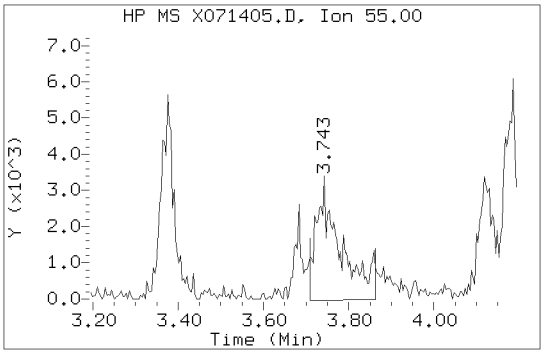
BEFORE

MASS
55
AREA
13406
HEIGHT
3436
20-Jul-2023
15:04
linh
pham



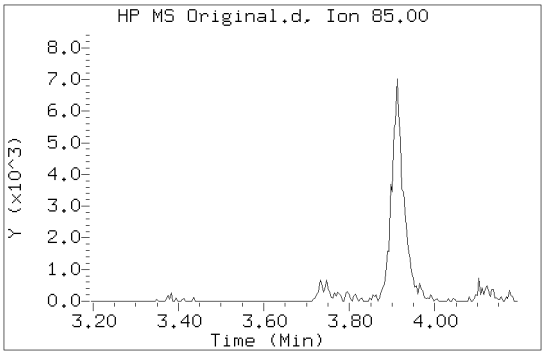
AFTER

MASS
55
AREA
13406
HEIGHT
3436
20-Jul-2023
15:04
linh
pham



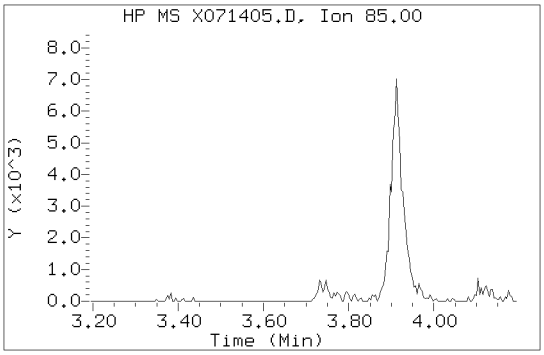
BEFORE

MASS
85
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham



AFTER

MASS
85
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham

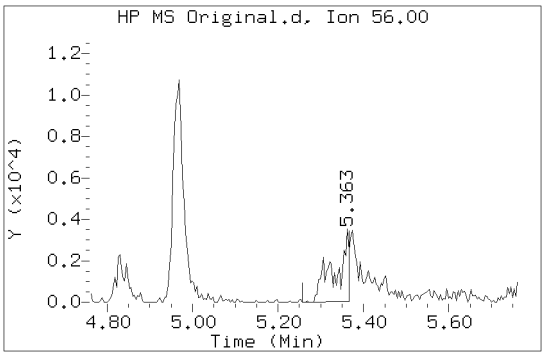


n-Butanol (71-36-3)

Reason Code:

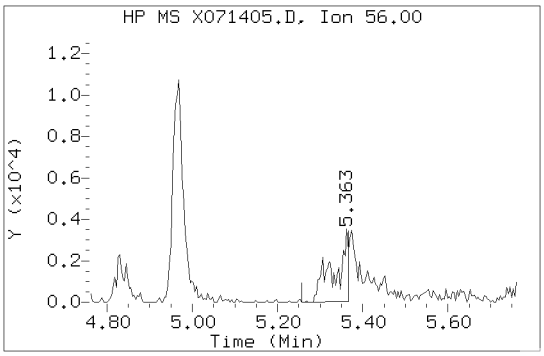
BEFORE

MASS
56
AREA
7443
HEIGHT
3529
20-Jul-2023
15:04
linh
pham



AFTER

MASS
56
AREA
7443
HEIGHT
3529
20-Jul-2023
15:04
linh
pham



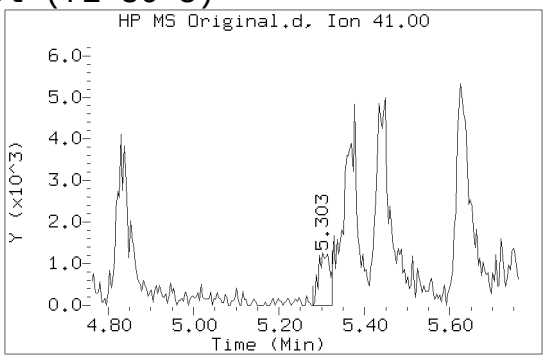
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230714.b\X071405.D
Inj Date : 14-JUL-2023 13:23
InstruID : voa6.i
LabSampID : VSTD002

n-Butanol (71-36-3)

Reason Code:

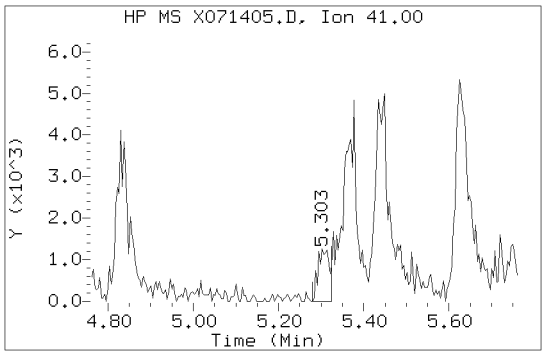
BEFORE

MASS
41
AREA
2384
HEIGHT
1261
20-Jul-2023
15:04
linh
pham



AFTER

MASS
41
AREA
2384
HEIGHT
1261
20-Jul-2023
15:04
linh
pham

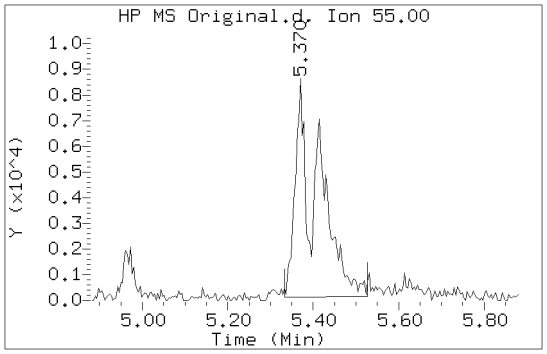


Ethyl Acrylate (140-88-5)

Reason Code:

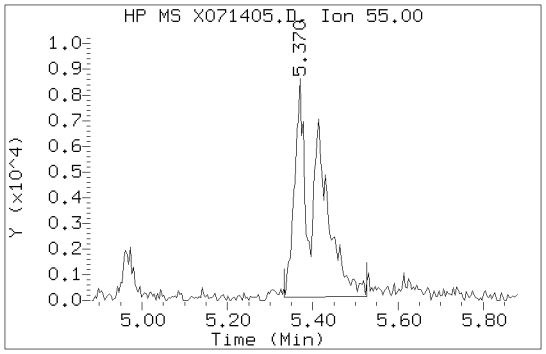
BEFORE

MASS
55
AREA
31450
HEIGHT
8507
20-Jul-2023
15:04
linh
pham



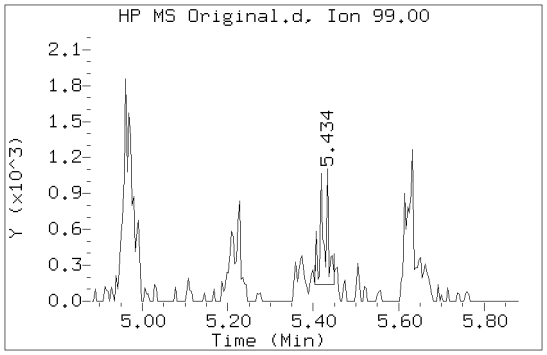
AFTER

MASS
55
AREA
31450
HEIGHT
8507
20-Jul-2023
15:04
linh
pham



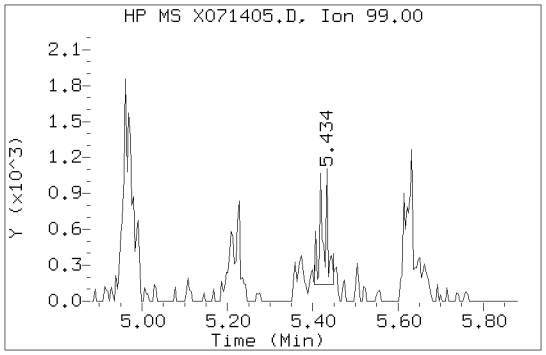
BEFORE

MASS
99
AREA
888
HEIGHT
965
20-Jul-2023
15:04
linh
pham



AFTER

MASS
99
AREA
888
HEIGHT
965
20-Jul-2023
15:04
linh
pham

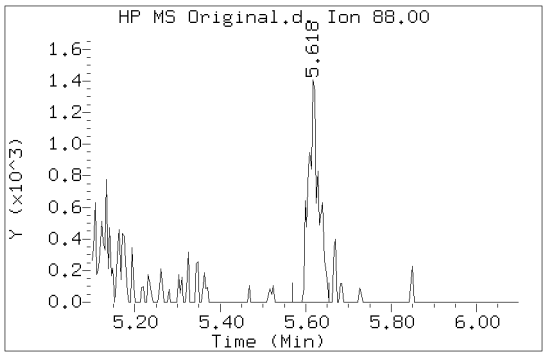


1,4-Dioxane ()

Reason Code:

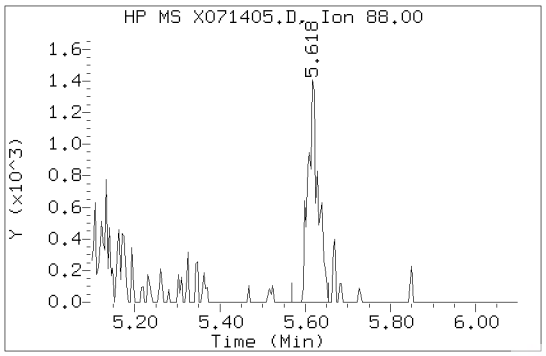
BEFORE

MASS
88
AREA
2323
HEIGHT
1407
20-Jul-2023
15:04
linh
pham



AFTER

MASS
88
AREA
2323
HEIGHT
1407
20-Jul-2023
15:04
linh
pham



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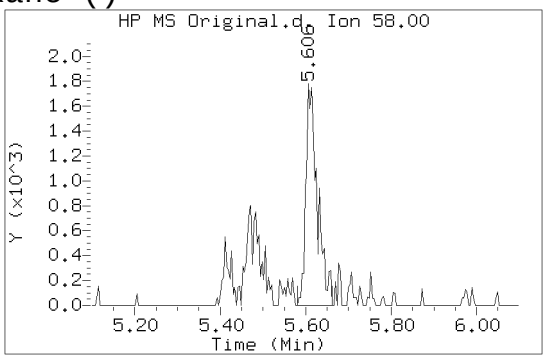
Inj Date : 14-JUL-2023 13:23
InstruID : voa6.i
LabSampID : VSTD002

1,4-Dioxane ()

Reason Code:

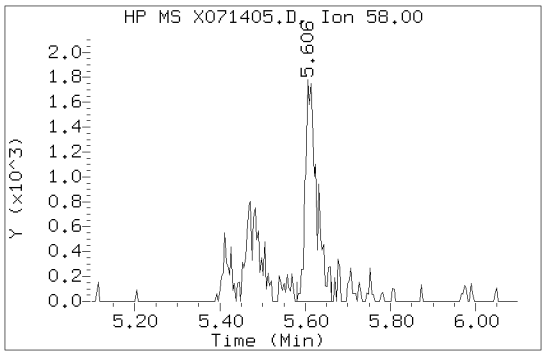
BEFORE

MASS
58
AREA
3341
HEIGHT
1781
20-Jul-2023
15:04
linh
pham



AFTER

MASS
58
AREA
3341
HEIGHT
1781
20-Jul-2023
15:04
linh
pham

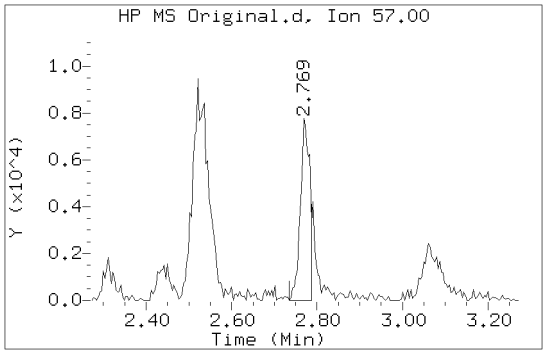


n-Hexane (110-54-3)

Reason Code:

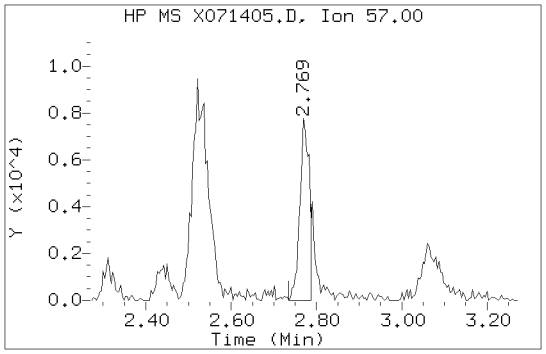
BEFORE

MASS
57
AREA
11984
HEIGHT
7776
20-Jul-2023
15:04
linh
pham



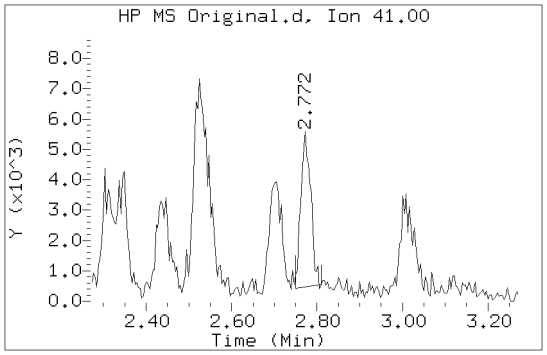
AFTER

MASS
57
AREA
11984
HEIGHT
7776
20-Jul-2023
15:04
linh
pham



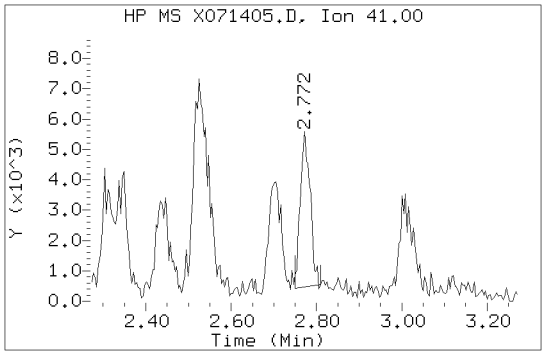
BEFORE

MASS
41
AREA
8381
HEIGHT
5113
20-Jul-2023
15:04
linh
pham



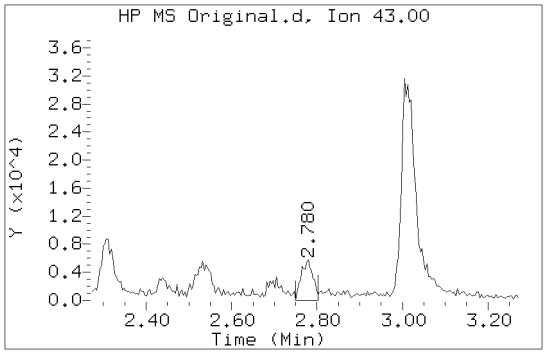
AFTER

MASS
41
AREA
8381
HEIGHT
5113
20-Jul-2023
15:04
linh
pham



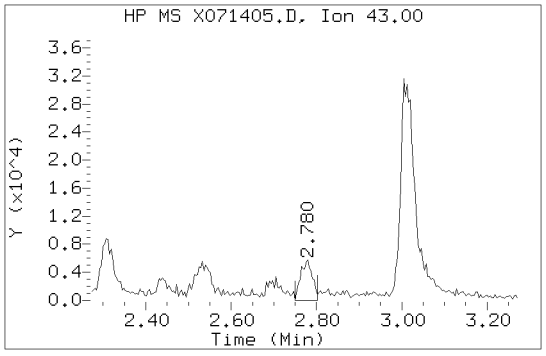
BEFORE

MASS
43
AREA
11133
HEIGHT
5721
20-Jul-2023
15:04
linh
pham



AFTER

MASS
43
AREA
11133
HEIGHT
5721
20-Jul-2023
15:04
linh
pham



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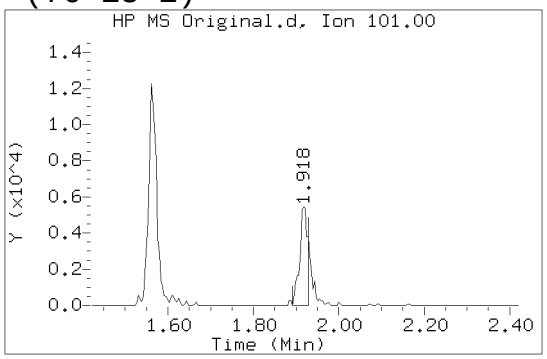
Inj Date : 14-JUL-2023 13:23
InstruID : voa6.i
LabSampID : VSTD002

Freon TF (76-13-1)

Reason Code:

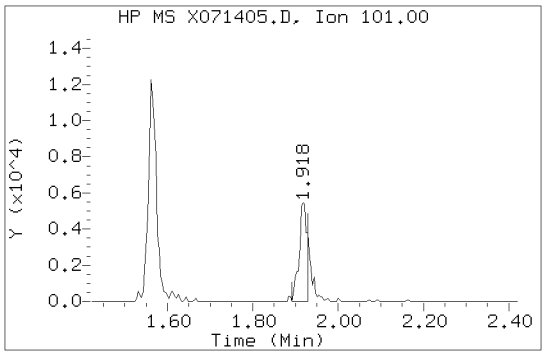
BEFORE

MASS
101
AREA
7195
HEIGHT
5473
20-Jul-2023
15:04
linh
pham



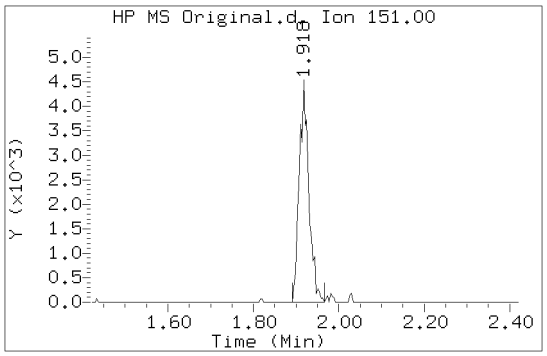
AFTER

MASS
101
AREA
7195
HEIGHT
5473
20-Jul-2023
15:04
linh
pham



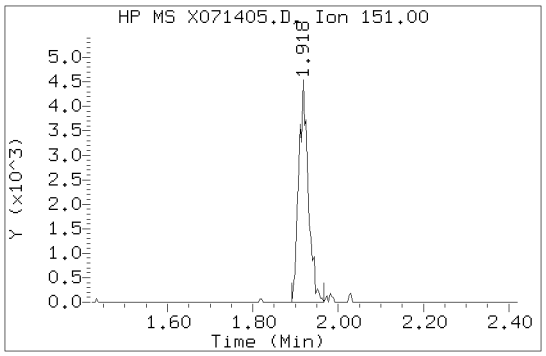
BEFORE

MASS
151
AREA
7204
HEIGHT
4541
20-Jul-2023
15:04
linh
pham



AFTER

MASS
151
AREA
7204
HEIGHT
4541
20-Jul-2023
15:04
linh
pham

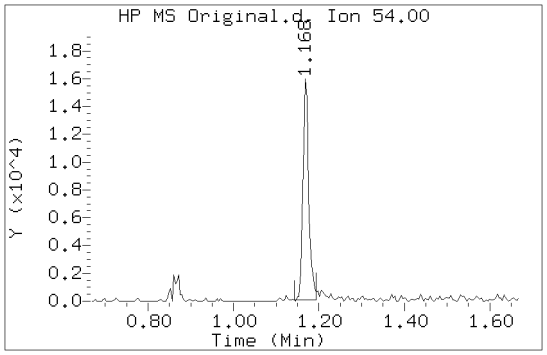


1,3-Butadiene (106-99-0)

Reason Code:

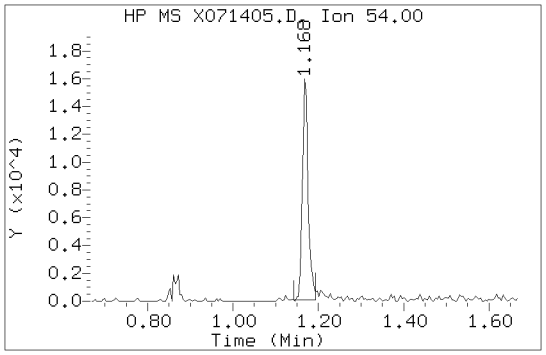
BEFORE

MASS
54
AREA
15351
HEIGHT
15893
20-Jul-2023
15:04
linh
pham



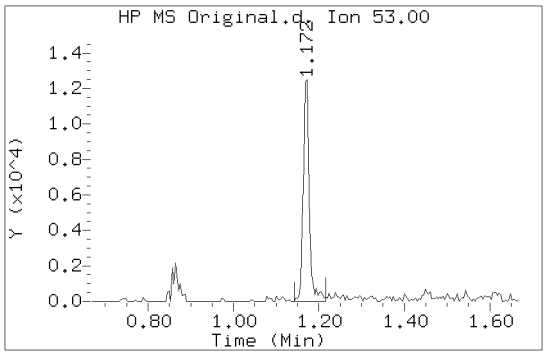
AFTER

MASS
54
AREA
15351
HEIGHT
15893
20-Jul-2023
15:04
linh
pham



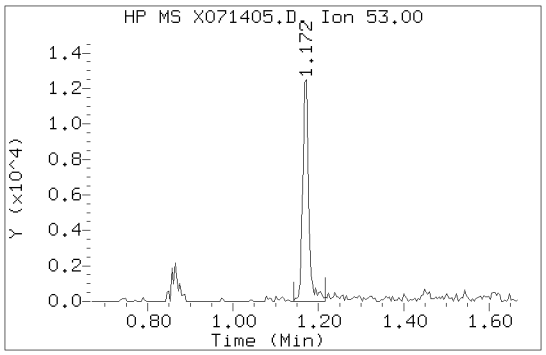
BEFORE

MASS
53
AREA
12769
HEIGHT
12495
20-Jul-2023
15:04
linh
pham



AFTER

MASS
53
AREA
12769
HEIGHT
12495
20-Jul-2023
15:04
linh
pham

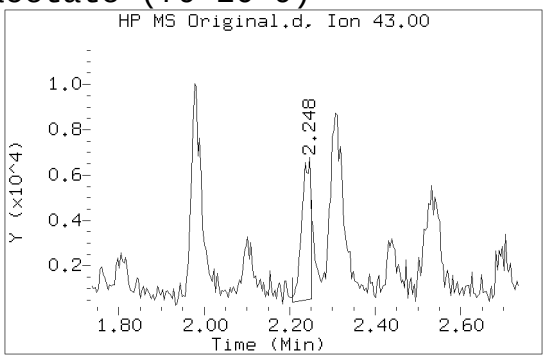


Data File : \\NAHSTWS005\Target\chem\voa6.i\X230714.b\X071405.D
Inj Date : 14-JUL-2023 13:23
InstruID : voa6.i
LabSampID : VSTD002

Methyl acetate (79-20-9)

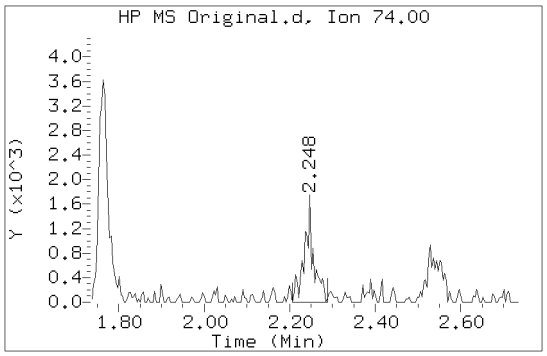
BEFORE

MASS
43
AREA
9491
HEIGHT
6252
20-Jul-2023
15:04
linh
pham



BEFORE

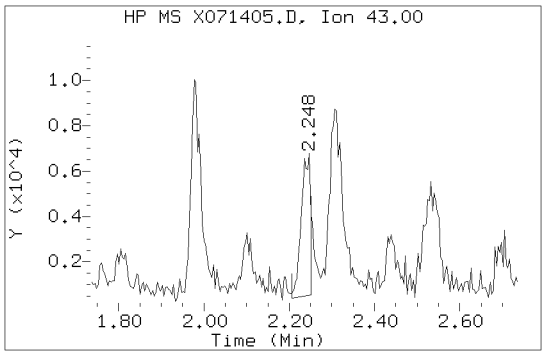
MASS
74
AREA
2612
HEIGHT
1756
20-Jul-2023
15:04
linh
pham



Reason Code:

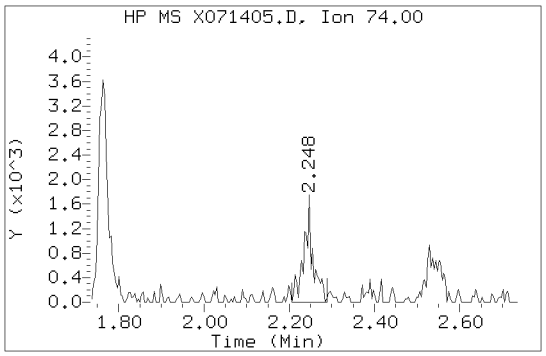
AFTER

MASS
43
AREA
9491
HEIGHT
6252
20-Jul-2023
15:04
linh
pham



AFTER

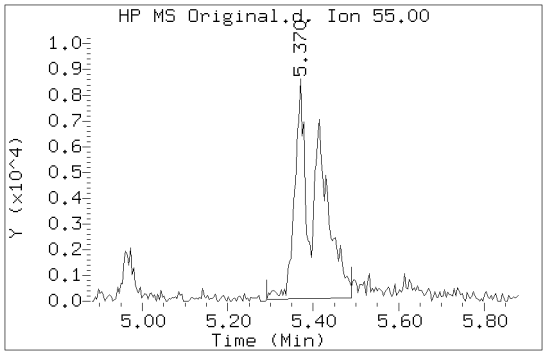
MASS
74
AREA
2612
HEIGHT
1756
20-Jul-2023
15:04
linh
pham



Methylcyclohexane (108-87-2)

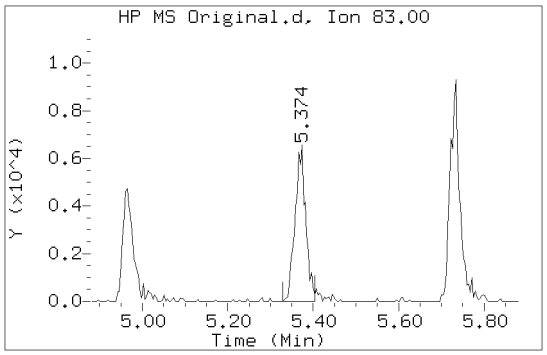
BEFORE

MASS
55
AREA
31142
HEIGHT
8535
20-Jul-2023
15:04
linh
pham



BEFORE

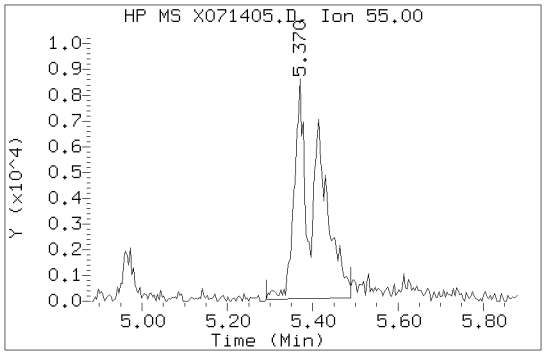
MASS
83
AREA
11484
HEIGHT
6566
20-Jul-2023
15:04
linh
pham



Reason Code:

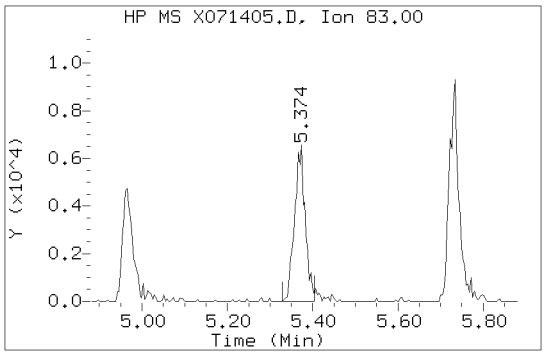
AFTER

MASS
55
AREA
31142
HEIGHT
8535
20-Jul-2023
15:04
linh
pham



AFTER

MASS
83
AREA
11484
HEIGHT
6566
20-Jul-2023
15:04
linh
pham



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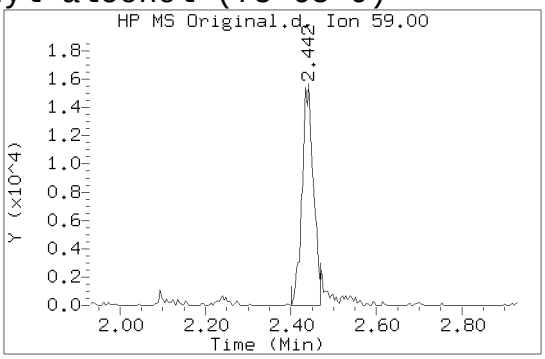
Inj Date : 14-JUL-2023 13:23
InstruID : voa6.i
LabSampID : VSTD002

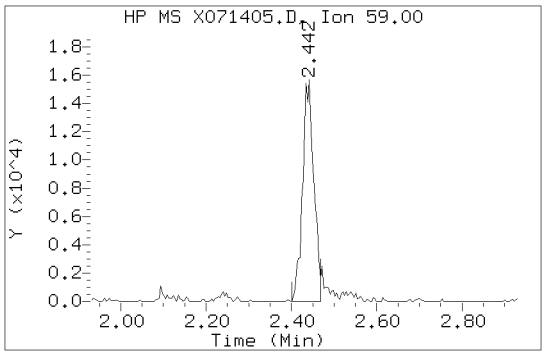
Tert-butyl alcohol (75-65-0)

Reason Code:

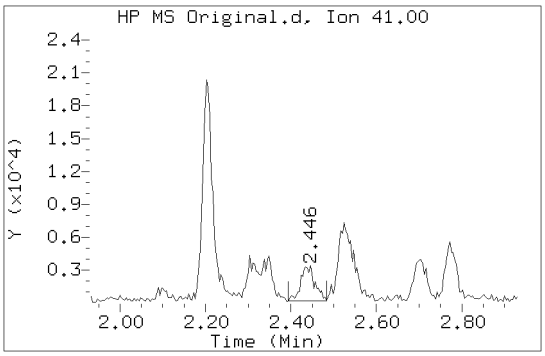
BEFORE
MASS
59
AREA
29280
HEIGHT
15681
20-Jul-2023
15:04
linh
pham



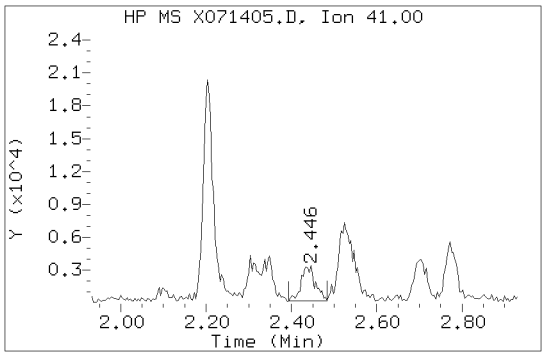
AFTER
MASS
59
AREA
29280
HEIGHT
15681
20-Jul-2023
15:04
linh
pham



BEFORE
MASS
41
AREA
7457
HEIGHT
3224
20-Jul-2023
15:04
linh
pham



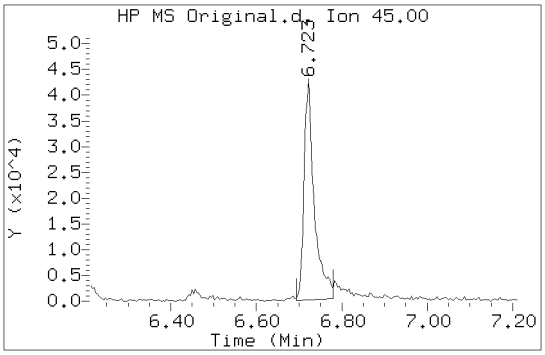
AFTER
MASS
41
AREA
7457
HEIGHT
3224
20-Jul-2023
15:04
linh
pham



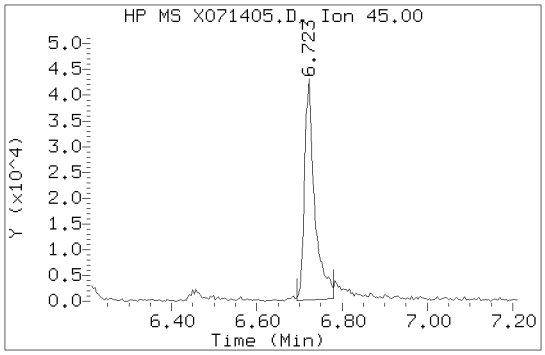
4-Methyl-2-pentanol (108-11-2)

Reason Code:

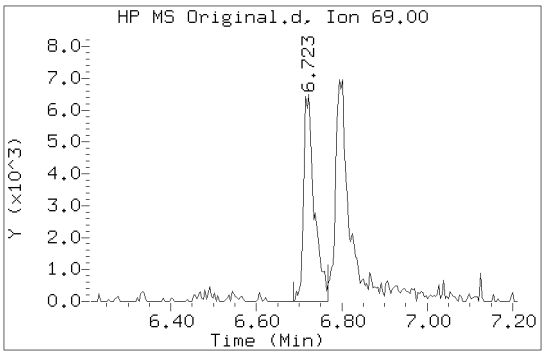
BEFORE
MASS
45
AREA
72210
HEIGHT
42882
20-Jul-2023
15:04
linh
pham



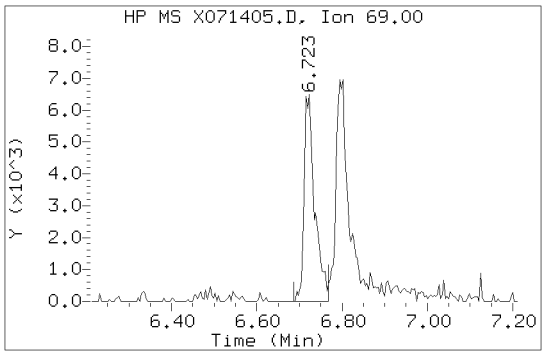
AFTER
MASS
45
AREA
72210
HEIGHT
42882
20-Jul-2023
15:04
linh
pham



BEFORE
MASS
69
AREA
11484
HEIGHT
6492
20-Jul-2023
15:04
linh
pham



AFTER
MASS
69
AREA
11484
HEIGHT
6492
20-Jul-2023
15:04
linh
pham



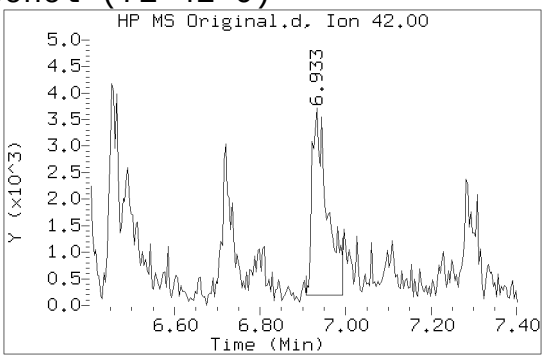
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230714.b\X071405.D
Inj Date : 14-JUL-2023 13:23
InstruID : voa6.i
LabSampID : VSTD002

Amyl alcohol (71-41-0)

Reason Code:

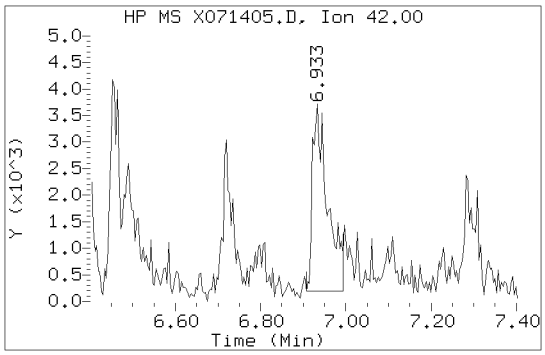
BEFORE

MASS
42
AREA
8579
HEIGHT
3524
20-Jul-2023
15:04
linh
pham



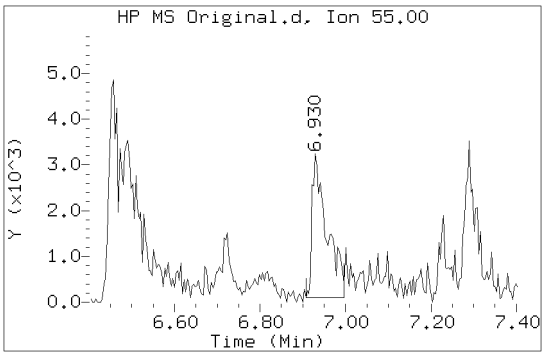
AFTER

MASS
42
AREA
8579
HEIGHT
3524
20-Jul-2023
15:04
linh
pham



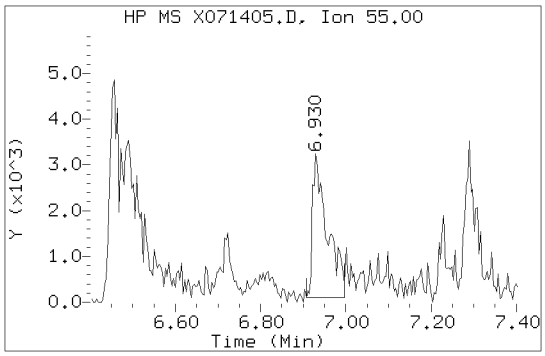
BEFORE

MASS
55
AREA
7591
HEIGHT
3153
20-Jul-2023
15:04
linh
pham



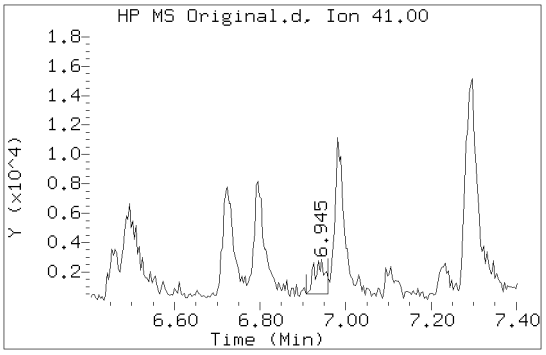
AFTER

MASS
55
AREA
7591
HEIGHT
3153
20-Jul-2023
15:04
linh
pham



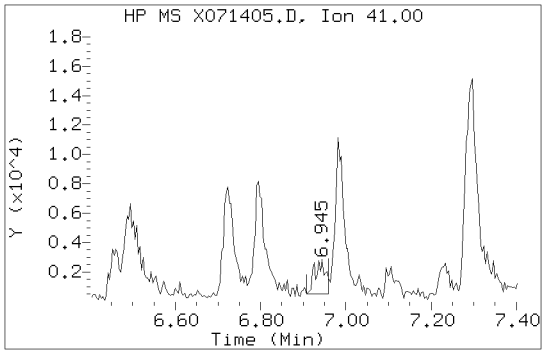
BEFORE

MASS
41
AREA
4124
HEIGHT
2354
20-Jul-2023
15:04
linh
pham



AFTER

MASS
41
AREA
4124
HEIGHT
2354
20-Jul-2023
15:04
linh
pham

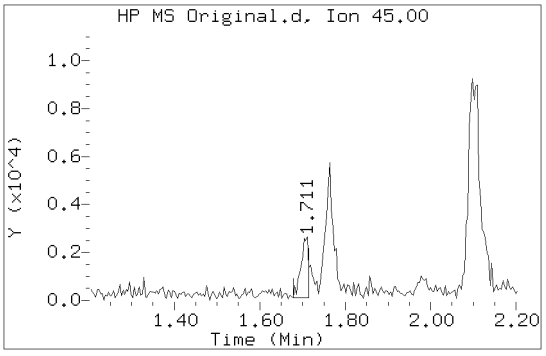


Ethanol (64-17-5)

Reason Code:

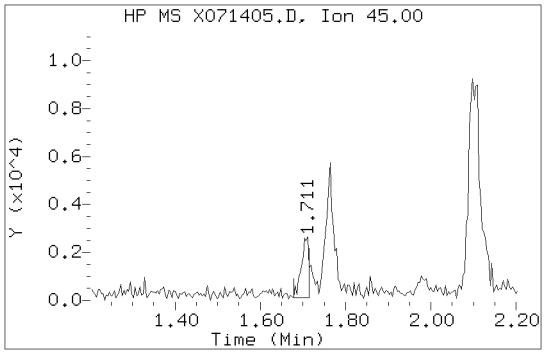
BEFORE

MASS
45
AREA
3219
HEIGHT
2559
20-Jul-2023
15:04
linh
pham



AFTER

MASS
45
AREA
3219
HEIGHT
2559
20-Jul-2023
15:04
linh
pham



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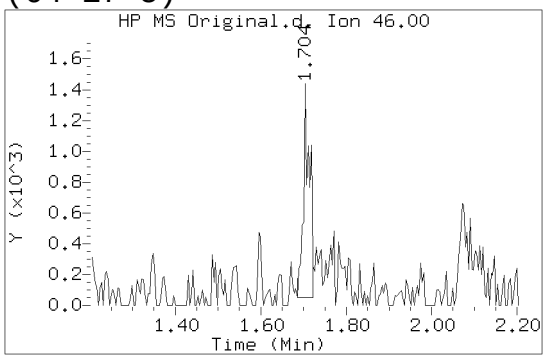
Inj Date : 14-JUL-2023 13:23
InstruID : voa6.i
LabSampID : VSTD002

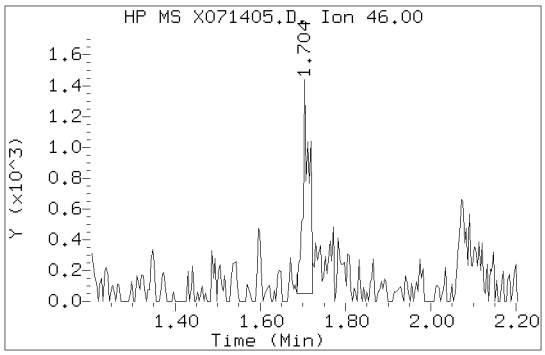
Ethanol (64-17-5)

Reason Code:

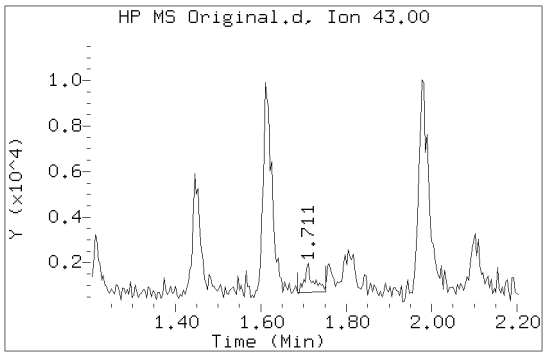
BEFORE
MASS
46
AREA
1433
HEIGHT
1387
20-Jul-2023
15:04
linh
pham



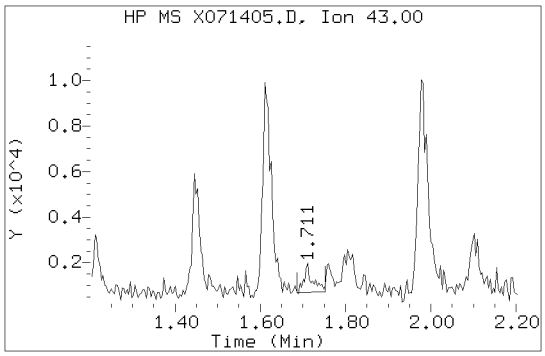
AFTER
MASS
46
AREA
1433
HEIGHT
1387
20-Jul-2023
15:04
linh
pham



BEFORE
MASS
43
AREA
1776
HEIGHT
1290
20-Jul-2023
15:04
linh
pham



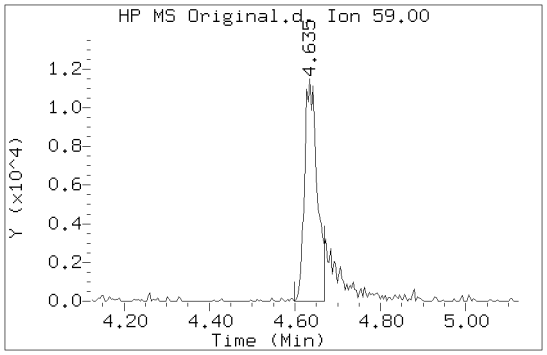
AFTER
MASS
43
AREA
1776
HEIGHT
1290
20-Jul-2023
15:04
linh
pham



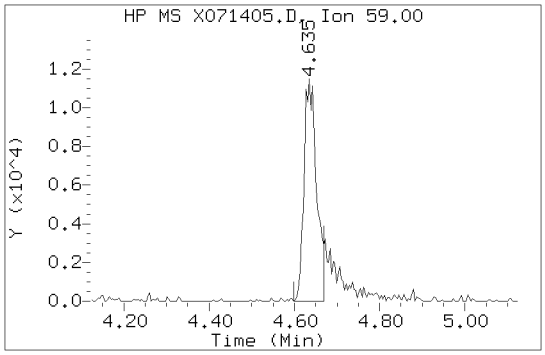
tert-Butyl formate (762-75-4)

Reason Code:

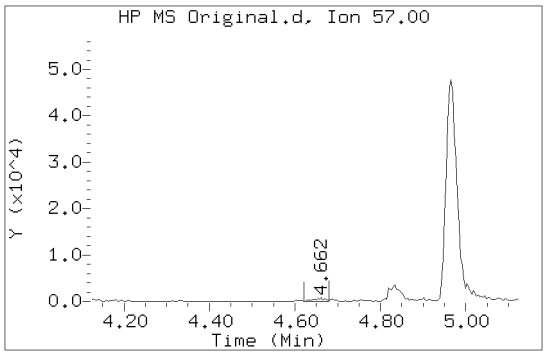
BEFORE
MASS
59
AREA
23857
HEIGHT
11486
20-Jul-2023
15:04
linh
pham



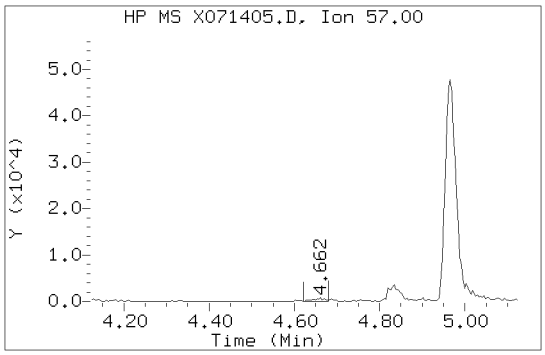
AFTER
MASS
59
AREA
23857
HEIGHT
11486
20-Jul-2023
15:04
linh
pham



BEFORE
MASS
57
AREA
1334
HEIGHT
778
20-Jul-2023
15:04
linh
pham



AFTER
MASS
57
AREA
1334
HEIGHT
778
20-Jul-2023
15:04
linh
pham



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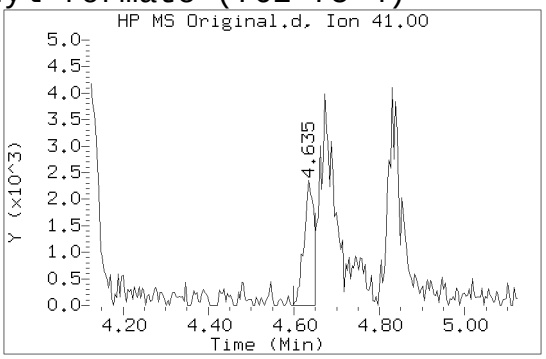
Inj Date : 14-JUL-2023 13:23
InstruID : voa6.i
LabSampID : VSTD002

tert-Butyl formate (762-75-4)

Reason Code:

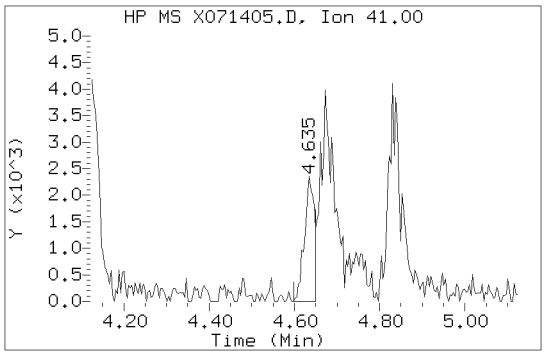
BEFORE

MASS
41
AREA
3833
HEIGHT
2355
20-Jul-2023
15:04
linh
pham



AFTER

MASS
41
AREA
3833
HEIGHT
2355
20-Jul-2023
15:04
linh
pham

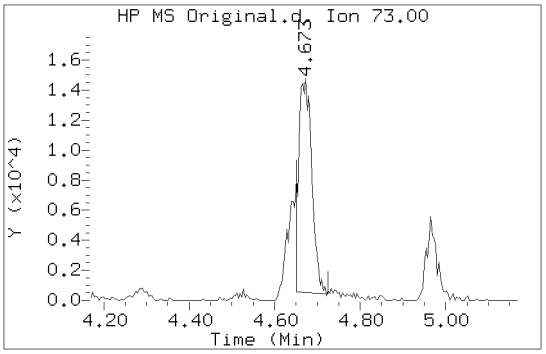


tert-Amyl methyl ether (974-05-08)

Reason Code:

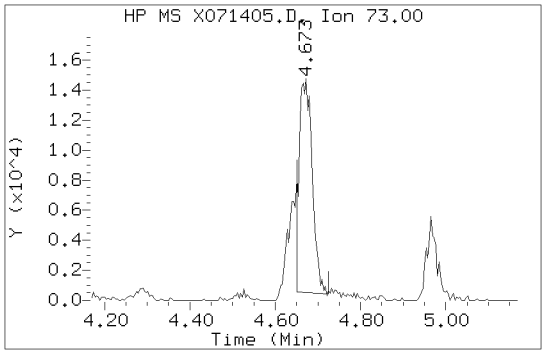
BEFORE

MASS
73
AREA
31345
HEIGHT
14253
20-Jul-2023
15:04
linh
pham



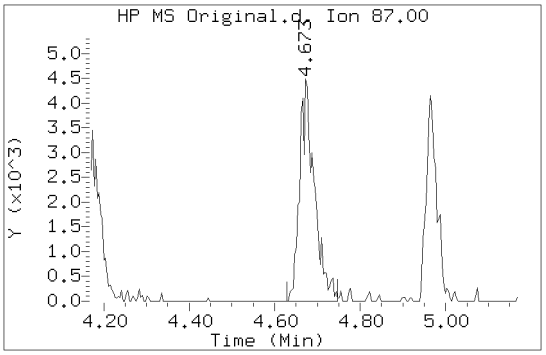
AFTER

MASS
73
AREA
31345
HEIGHT
14253
20-Jul-2023
15:04
linh
pham



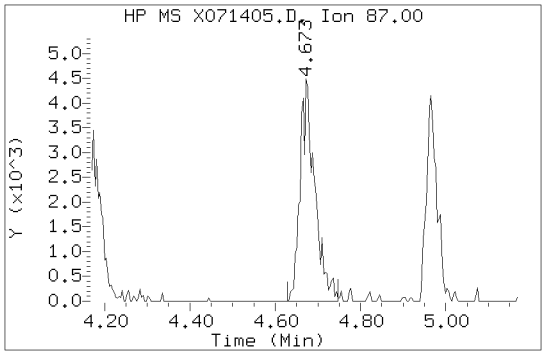
BEFORE

MASS
87
AREA
10923
HEIGHT
4489
20-Jul-2023
15:04
linh
pham



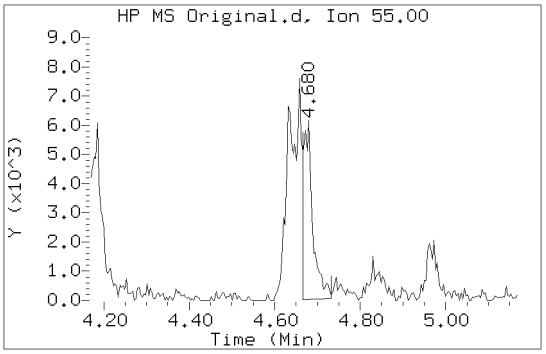
AFTER

MASS
87
AREA
10923
HEIGHT
4489
20-Jul-2023
15:04
linh
pham



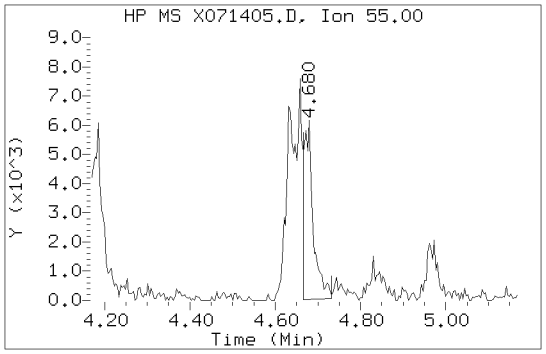
BEFORE

MASS
55
AREA
9755
HEIGHT
6135
20-Jul-2023
15:04
linh
pham



AFTER

MASS
55
AREA
9755
HEIGHT
6135
20-Jul-2023
15:04
linh
pham



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Inj Date : 14-JUL-2023 13:23
InstruID : voa6.i
LabSampID : VSTD002

Isoprene (78-79-5)

Reason Code:

BEFORE
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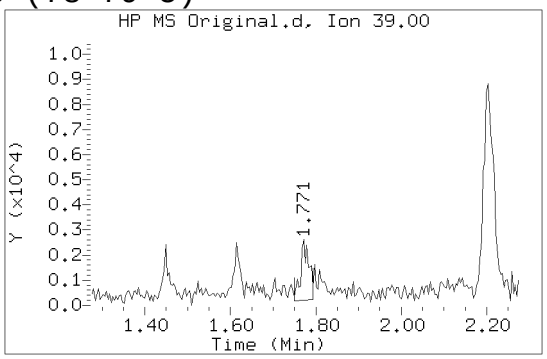
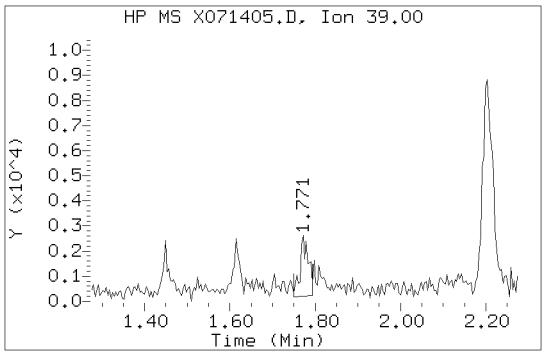
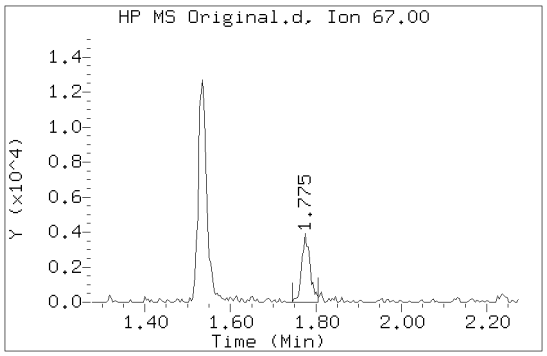
39
AREA
3408
HEIGHT
2427
20-Jul-2023
15:04
linh
pham



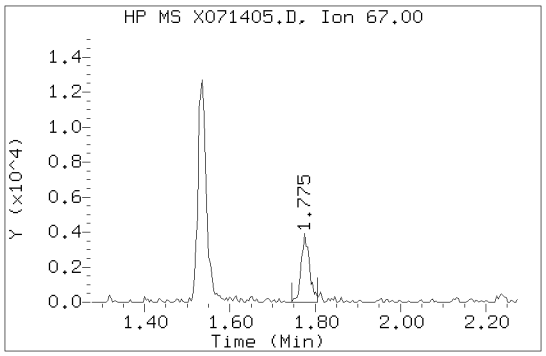
AFTER
MASS
39
AREA
3408
HEIGHT
2427
20-Jul-2023
15:04
linh
pham



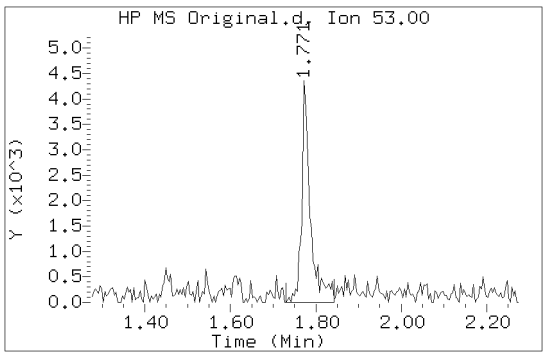
BEFORE
MASS
67
AREA
5482
HEIGHT
3925
20-Jul-2023
15:04
linh
pham



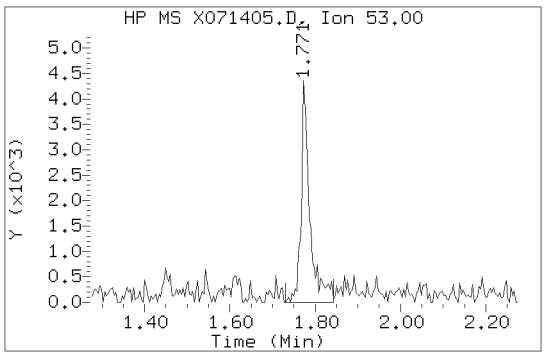
AFTER
MASS
67
AREA
5482
HEIGHT
3925
20-Jul-2023
15:04
linh
pham



BEFORE
MASS
53
AREA
6318
HEIGHT
4358
20-Jul-2023
15:04
linh
pham



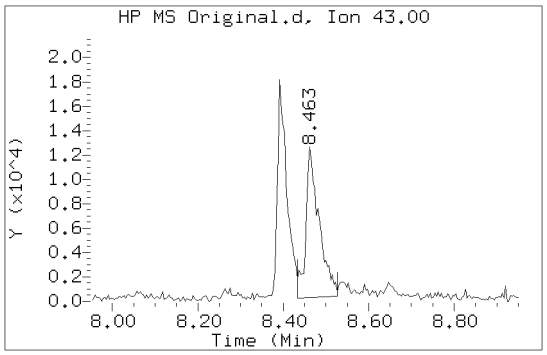
AFTER
MASS
53
AREA
6318
HEIGHT
4358
20-Jul-2023
15:04
linh
pham



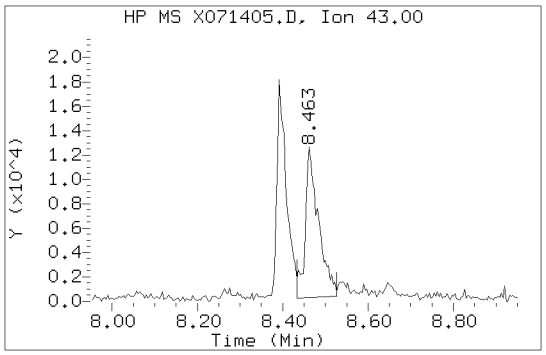
n-Amyl acetate (628-63-7)

Reason Code:

BEFORE
MASS
43
AREA
26886
HEIGHT
12364
20-Jul-2023
15:04
linh
pham



AFTER
MASS
43
AREA
26886
HEIGHT
12364
20-Jul-2023
15:04
linh
pham



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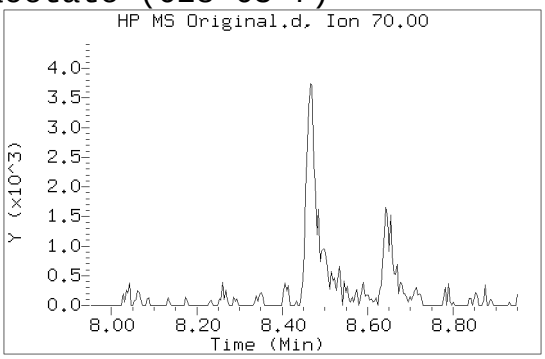
Inj Date : 14-JUL-2023 13:23
InstruID : voa6.i
LabSampID : VSTD002

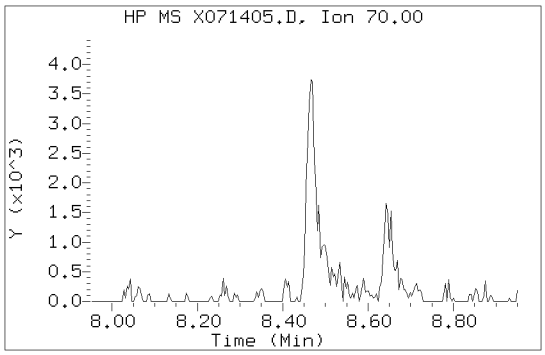
n-Amyl acetate (628-63-7)

BEFORE
MASS
70
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham

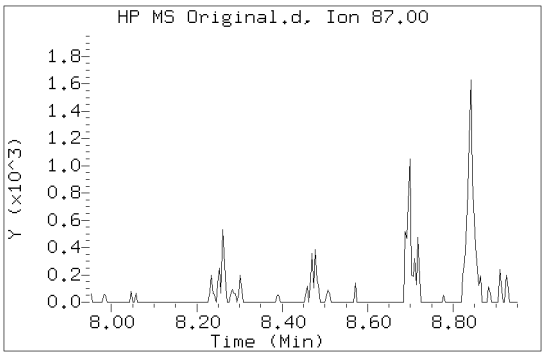


Reason Code:

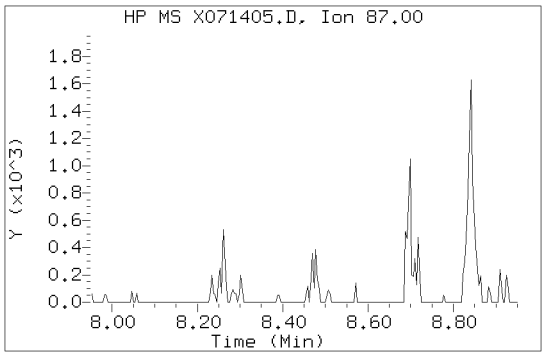
AFTER
MASS
70
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham



BEFORE
MASS
87
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham



AFTER
MASS
87
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham



n-Butyl acetate (123-86-4)

Reason Code:

BEFORE
MASS
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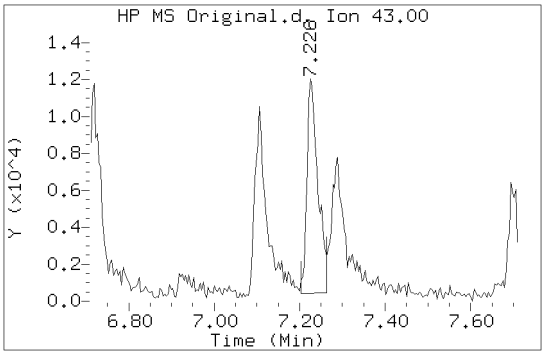
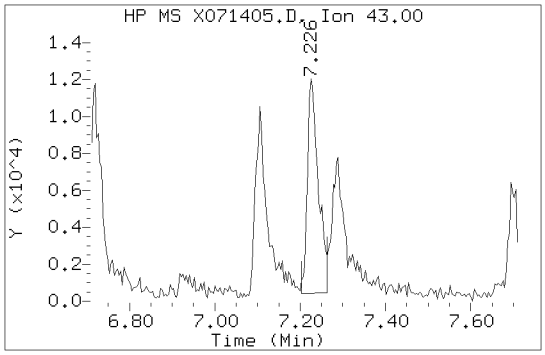
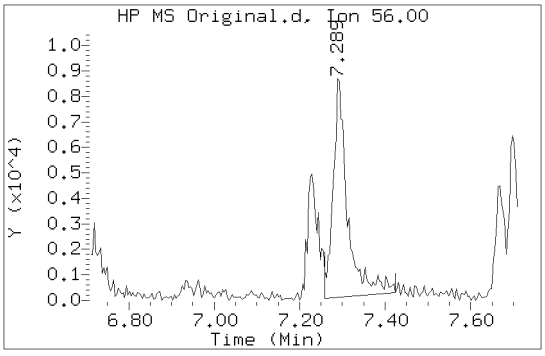
AREA
20825
HEIGHT
11598
20-Jul-2023
15:04
linh
pham



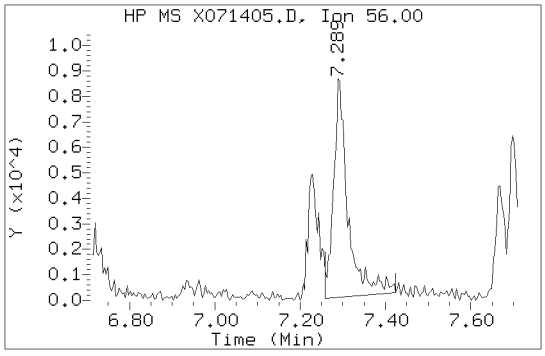
AFTER
MASS
43
AREA
20825
HEIGHT
11598
20-Jul-2023
15:04
linh
pham



BEFORE
MASS
56
AREA
20012
HEIGHT
8570
20-Jul-2023
15:04
linh
pham



AFTER
MASS
56
AREA
20012
HEIGHT
8570
20-Jul-2023
15:04
linh
pham



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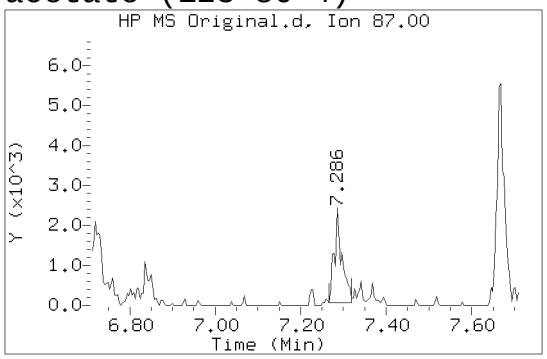
Inj Date : 14-JUL-2023 13:23
InstruID : voa6.i
LabSampID : VSTD002

n-Butyl acetate (123-86-4)

Reason Code:

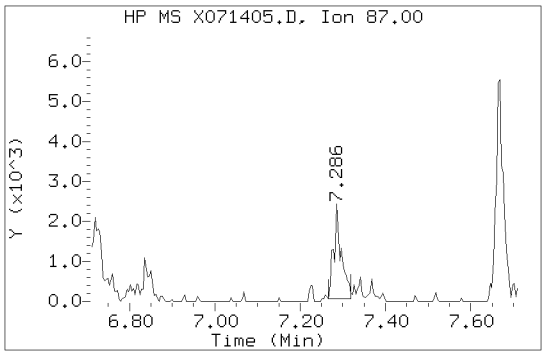
BEFORE

MASS
87
AREA
2958
HEIGHT
2373
20-Jul-2023
15:04
linh
pham



AFTER

MASS
87
AREA
2958
HEIGHT
2373
20-Jul-2023
15:04
linh
pham

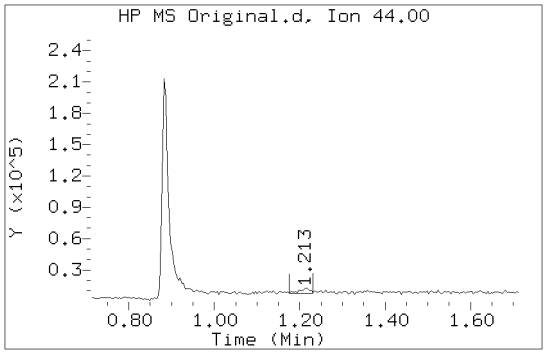


Acetaldehyde (75-07-0)

Reason Code:

BEFORE

MASS
44
AREA
8114
HEIGHT
5042
20-Jul-2023
15:04
linh
pham



AFTER

MASS
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AREA
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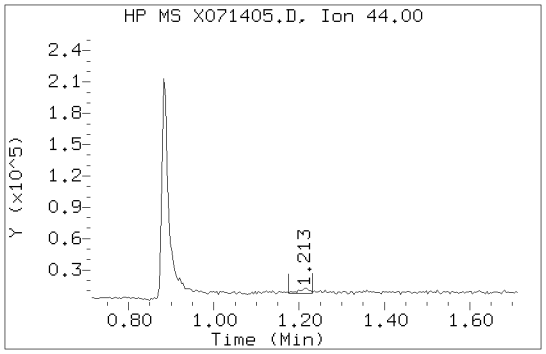
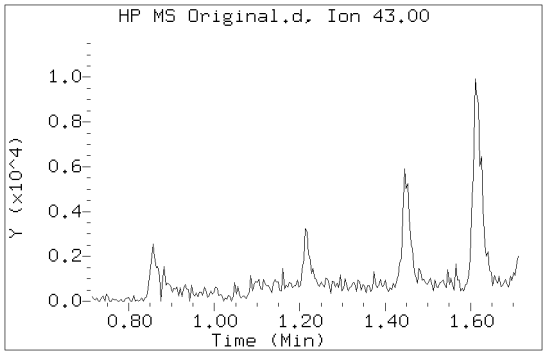
HEIGHT
5042
20-Jul-2023
15:04
linh
pham



BEFORE

MASS
43
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham



AFTER

MASS
43
AREA
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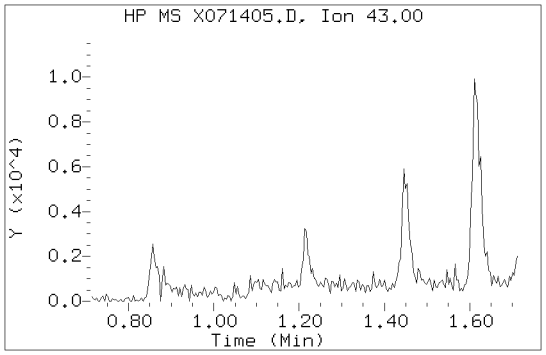
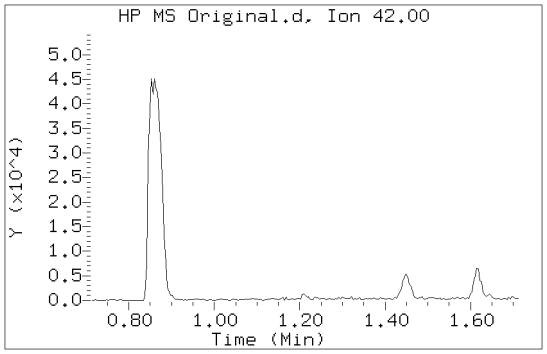
HEIGHT
0
20-Jul-2023
15:04
linh
pham



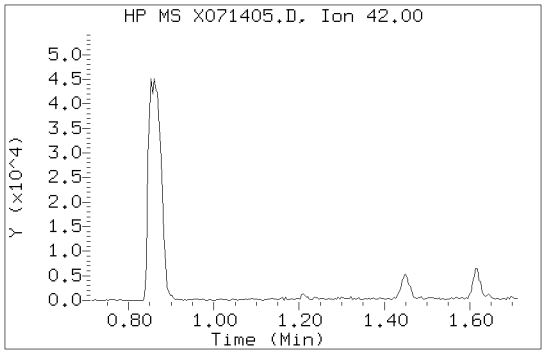
BEFORE

MASS
42
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham



AFTER

MASS
42
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham



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Inj Date : 14-JUL-2023 13:23
InstruID : voa6.i
LabSampID : VSTD002

Isobutylene (115-11-7)

Reason Code:

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1749
20-Jul-2023
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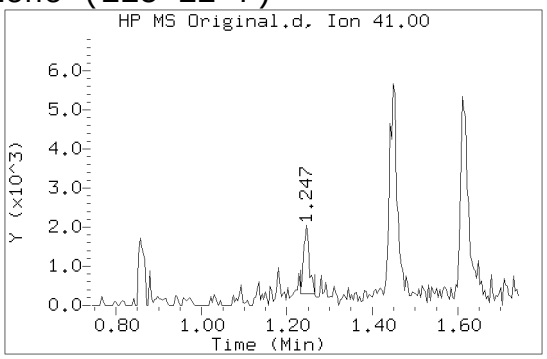

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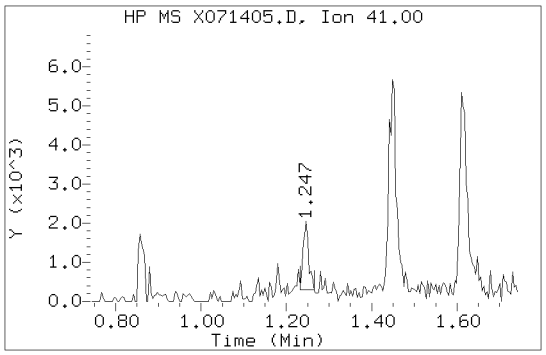

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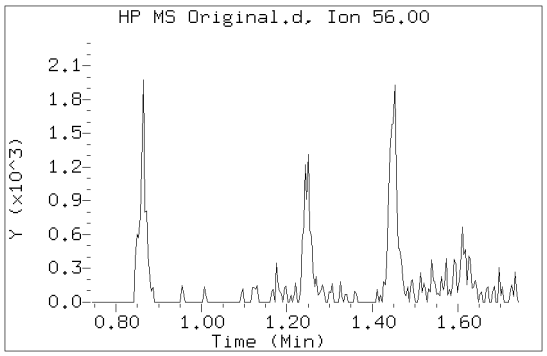

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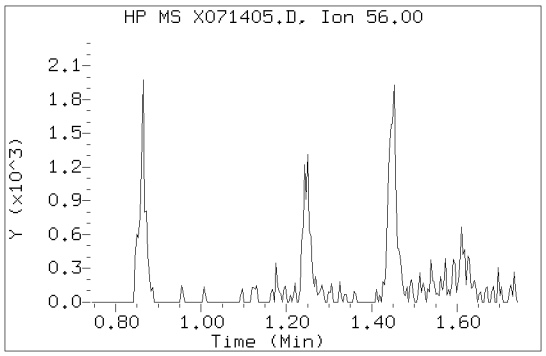

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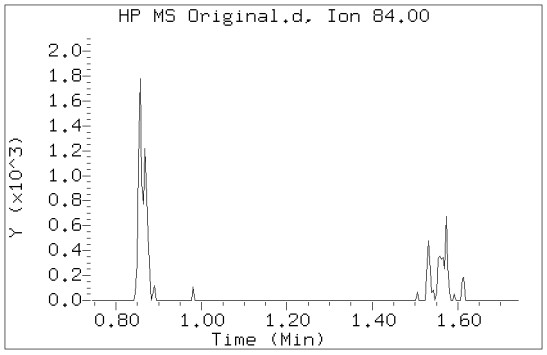

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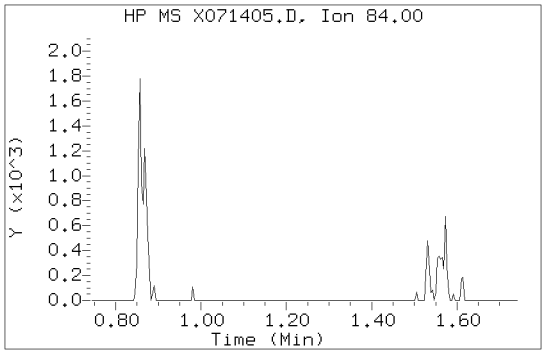

2-Ethylhexyl Acrylate (103-11-7)

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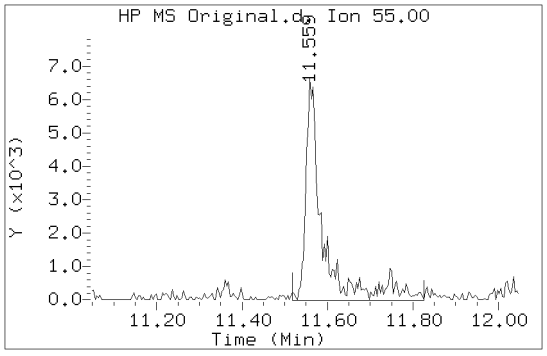

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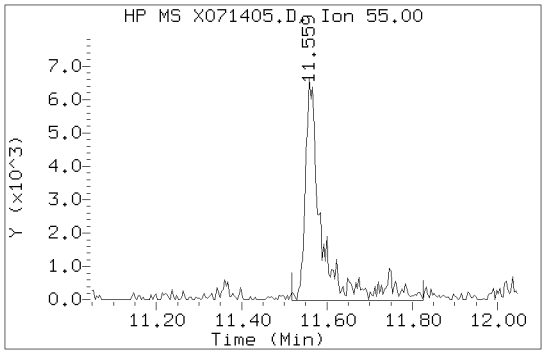

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Inj Date : 14-JUL-2023 13:23
InstruID : voa6.i
LabSampID : VSTD002

2-Ethylhexyl Acrylate (103-11-7)

Reason Code:

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20-Jul-2023
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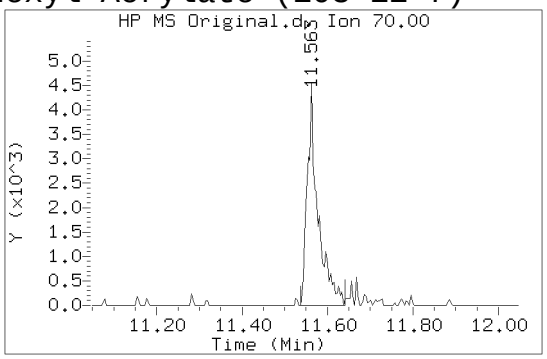

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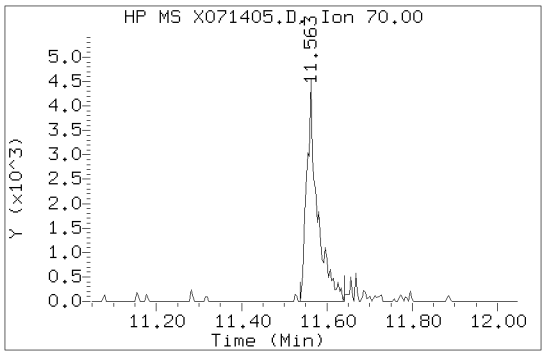

Toluene-d8 (2037-26-5)

Reason Code:

BEFORE

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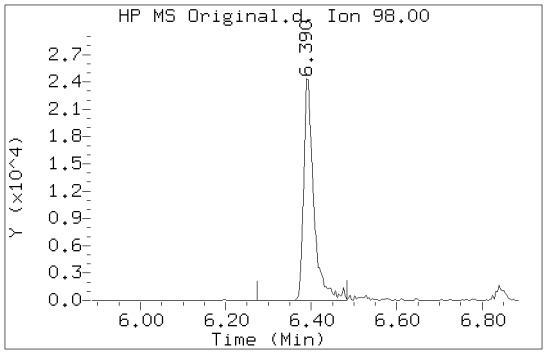

AFTER

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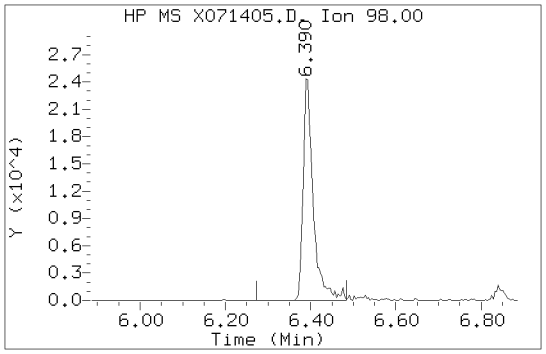

BEFORE

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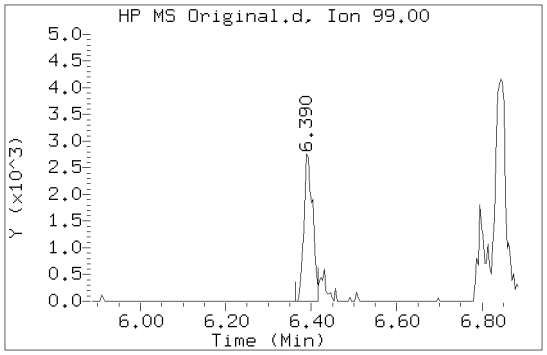

AFTER

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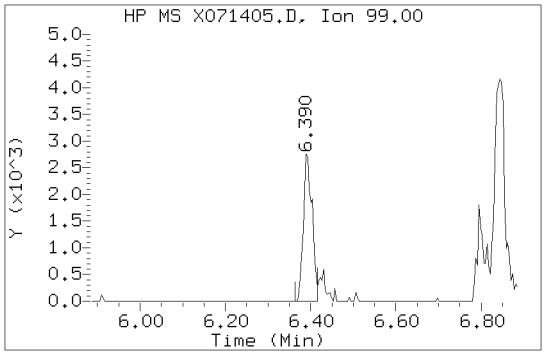

BEFORE

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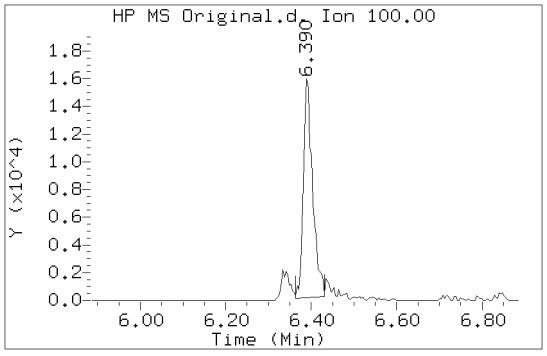

AFTER

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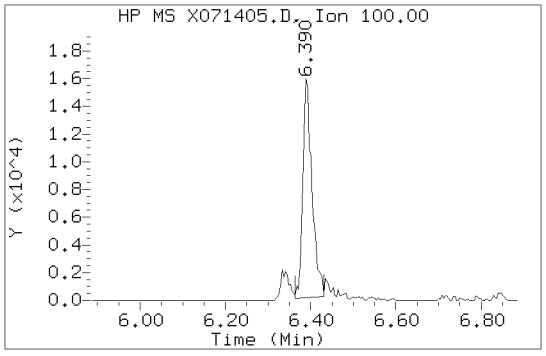

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Report Date: 20-Jul-2023 15:05

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230714.b\X071406.D
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Inj Date : 14-JUL-2023 13:43
Operator : PC Inst ID: voa6.i
Smp Info : VSTD005;VSTD005;1;5;
Misc Info : V6;WATER;0;1;
Comment   :
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Meth Date : 20-Jul-2023 15:05 voa6.i Quant Type: ISTD
Cal Date : 14-JUL-2023 13:23 Cal File: X071405.D
Als bottle: 7 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
*	1 Pentafluorobenzene	168	4.177	4.177	(1.000)	515309	50.0000	
	2 Dichlorodifluoromethane	85	0.976	0.976	(0.234)	21541	5.00000	5.09
	3 Chloromethane	50	1.081	1.081	(0.259)	35282	5.00000	4.53(M)
	4 Propionitrile	54	3.671	3.671	(0.879)	48685	50.0000	47.69(a)
	5 Vinyl Chloride	62	1.149	1.149	(0.275)	31539	5.00000	4.72
	6 Bromomethane	94	1.343	1.343	(0.322)	13035	5.00000	4.72(M)
	7 Chloroethane	64	1.407	1.407	(0.337)	17933	5.00000	4.71
	8 Trichlorofluoromethane	101	1.565	1.565	(0.375)	30820	5.00000	4.56
	9 Acrolein	56	1.868	1.868	(0.447)	2341	10.0000	12.99(aH)
	10 Acetone	43	1.977	1.977	(0.473)	26152	10.0000	8.56
	11 1,1-Dichloroethene	96	1.917	1.917	(0.459)	18372	5.00000	4.86
	12 Isobutyl Alcohol	43	4.684	4.684	(1.121)	97691	100.000	100.01(a)
	13 Acetonitrile	39	2.206	2.206	(0.528)	34072	50.0000	47.15(a)
	14 Allyl Chloride	41	2.206	2.206	(0.528)	83408	5.00000	4.92(a)
	15 Iodomethane	142	2.029	2.029	(0.486)	29645	10.0000	9.67(M)
	16 Acrylonitrile	53	2.539	2.539	(0.608)	26399	10.0000	10.51
	17 Methylene Chloride	84	2.307	2.307	(0.552)	25734	5.00000	4.52
	18 Methyl tert-butyl ether	73	2.543	2.543	(0.609)	69208	5.00000	4.92
	19 Carbon Disulfide	76	2.074	2.074	(0.497)	111855	10.0000	9.42
	20 trans-1,2-Dichloroethene	96	2.532	2.532	(0.606)	22471	5.00000	5.14

21 Vinyl Acetate	43	3.008	3.008 (0.720)	178820	10.0000	9.90
22 1,1-Dichloroethane	63	2.925	2.925 (0.700)	46539	5.00000	4.85

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	23 Chloroprene	53	1.778	1.778	(0.426)	11212	5.00000	4.83(aM)
	24 2-Butanone	43	3.608	3.608	(0.864)	25624	10.0000	9.33(M)
	25 Methacrylonitrile	41	3.848	3.848	(0.921)	30821	5.00000	4.63(a)
	26 2,2-Dichloropropane	77	3.506	3.506	(0.839)	34523	5.00000	4.82
	27 cis-1,2-Dichloroethene	96	3.529	3.529	(0.845)	27063	5.00000	4.86
	28 Chloroform	83	3.908	3.908	(0.935)	45886	5.00000	4.67
	29 Bromochloromethane	128	3.803	3.803	(0.910)	15326	5.00000	4.91
$	30 Dibromofluoromethane	113	4.102	4.102	(0.982)	26145	5.00000	4.85
	31 1,1,1-Trichloroethane	97	4.076	4.076	(0.976)	34806	5.00000	4.61
	32 1,1-Dichloropropene	75	4.282	4.282	(0.863)	28199	5.00000	4.24
	33 1,2-Dichloroethane	62	4.564	4.564	(0.919)	41945	5.00000	4.67
	34 Carbon Tetrachloride	117	4.264	4.264	(0.859)	30432	5.00000	4.54
$	35 1,2-Dichloroethane-d4	65	4.477	4.477	(1.072)	31653	5.00000	4.80
*	36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	815041	50.0000	
	37 Benzene	78	4.515	4.515	(0.909)	91790	5.00000	4.70
	38 Trichloroethene	130	5.212	5.212	(1.050)	24824	5.00000	4.50(a)
	39 Bromodichloromethane	83	5.726	5.726	(1.153)	35030	5.00000	4.69(a)
	40 Methyl Methacrylate	41	5.617	5.617	(1.345)	30166	5.00000	4.85(a)
	41 2-Chloroethylvinyl ether	63	6.056	6.056	(1.220)	21401	10.0000	9.38(a)
	42 1,2-Dichloropropane	63	5.437	5.437	(1.095)	30550	5.00000	4.87(a)
	43 2-Nitropropane	43	5.981	5.981	(1.432)	8304	5.00000	4.05(a)
	44 Dibromomethane	93	5.557	5.557	(1.119)	16922	5.00000	4.76(a)
	45 4-Methyl-2-Pentanone	43	6.329	6.329	(0.825)	71437	10.0000	9.87
	46 cis-1,3-Dichloropropene	75	6.160	6.160	(1.241)	38467	5.00000	4.48(a)
*	47 Chlorobenzene-d5	117	7.667	7.667	(1.000)	735002	50.0000	
$	48 Toluene-d8	98	6.385	6.385	(0.833)	95273	5.00000	5.03(M)
	49 Ethyl Methacrylate	69	6.715	6.715	(1.353)	26485	5.00000	4.96(a)
	50 Toluene	91	6.445	6.445	(0.841)	96792	5.00000	4.89(a)
	51 trans-1,3-Dichloropropene	75	6.685	6.685	(1.347)	33424	5.00000	4.62(a)
	52 2-Hexanone	43	7.098	7.098	(0.926)	48930	10.0000	10.29
	53 1,1,2-Trichloroethane	83	6.843	6.843	(0.892)	20880	5.00000	4.97(a)
	54 1,3-Dichloropropane	76	6.981	6.981	(0.911)	43005	5.00000	5.01
	55 Dibromochloromethane	129	7.173	7.173	(0.935)	28644	5.00000	4.72(a)
	56 Tetrachloroethene	164	6.929	6.929	(0.904)	19962	5.00000	4.88(a)
	57 1,2-Dibromoethane	107	7.263	7.263	(0.947)	25723	5.00000	5.36
	58 1-Chlorohexane	55	7.697	7.697	(1.550)	29679	5.00000	4.53(a)
	59 Chlorobenzene	112	7.694	7.694	(1.003)	65984	5.00000	4.77(a)
	60 1,1,1,2-Tetrachloroethane	131	7.776	7.776	(1.014)	25299	5.00000	4.67(a)
	61 Ethylbenzene	106	7.799	7.799	(1.017)	32420	5.00000	4.67(a)
	62 m,p-Xylenes	106	7.907	7.907	(1.031)	79790	10.0000	9.17(a)
	63 o-Xylene	106	8.241	8.241	(1.075)	37444	5.00000	4.54(a)
	64 Styrene	104	8.267	8.267	(1.078)	65591	5.00000	4.56(a)
	66 Bromoform	173	8.413	8.413	(1.097)	17937	5.00000	4.61(a)
	67 Isopropylbenzene	105	8.560	8.560	(1.116)	96601	5.00000	4.56(a)
	68 1,1,2,2-Tetrachloroethane	83	8.837	8.837	(0.915)	33128	5.00000	5.01
$	69 4-Bromofluorobenzene	95	8.691	8.691	(1.133)	40007	5.00000	5.08
*	70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	393512	50.0000	
	71 1,2,3-Trichloropropane	75	8.863	8.863	(0.917)	27801	5.00000	5.30
	72 trans-1,4-Dichloro-2-butene	53	8.893	8.893	(1.160)	9958	5.00000	4.45(aM)
	73 n-Propylbenzene	91	8.912	8.912	(0.922)	105135	5.00000	4.42(a)
	74 Bromobenzene	156	8.811	8.811	(0.912)	30146	5.00000	4.89(a)
	75 1,3,5-Trimethylbenzene	105	9.066	9.066	(0.938)	77581	5.00000	4.35(a)

76	2-Chlorotoluene	91	8.972	8.972 (0.929)	73357	5.00000	4.57(a)
77	4-Chlorotoluene	91	9.073	9.073 (0.939)	83281	5.00000	4.72(a)

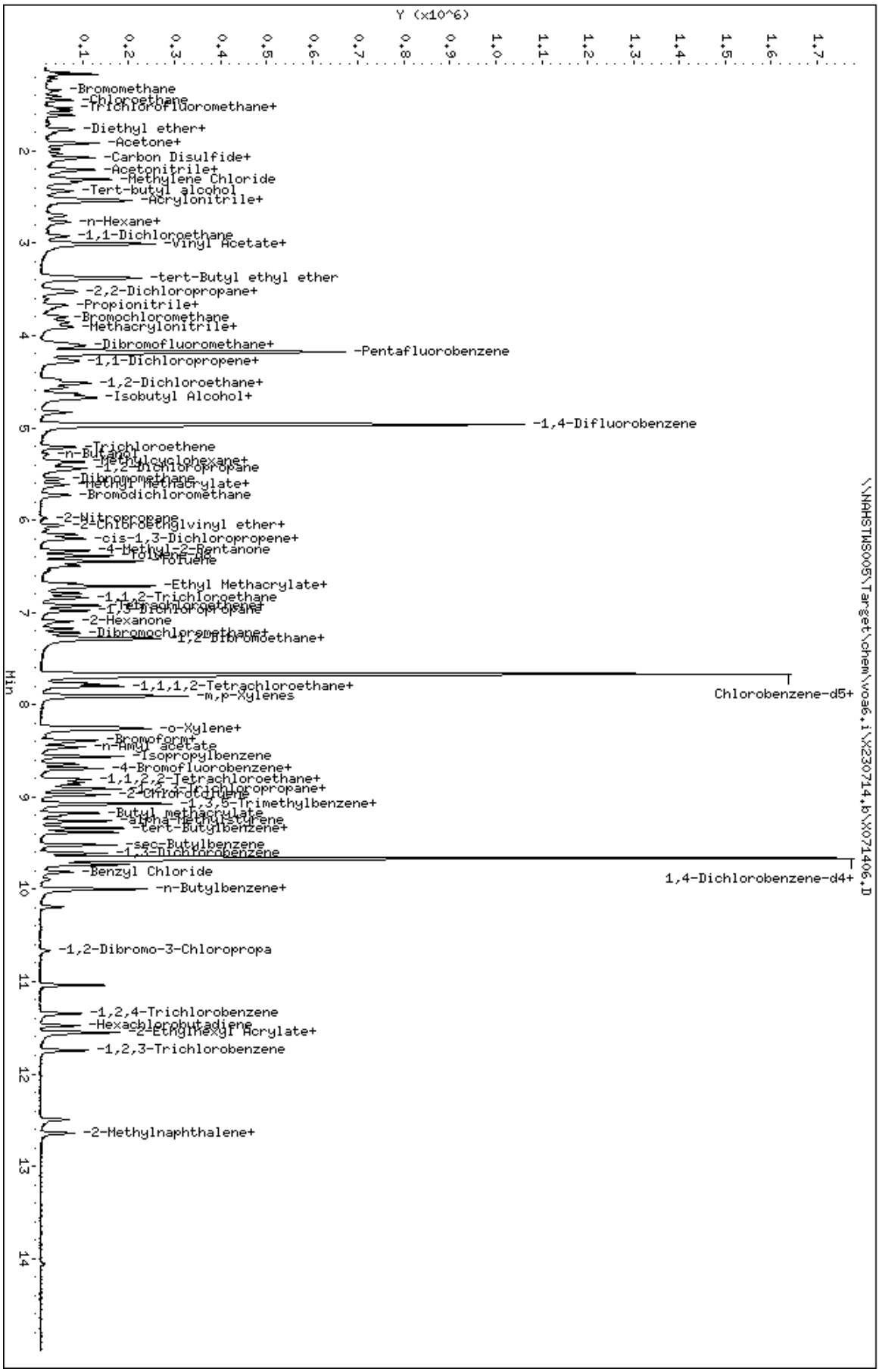
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
78	tert-Butylbenzene	119	9.336	9.336	(0.966)	68497	5.00000	4.48(a)
79	1,2,4-Trimethylbenzene	105	9.381	9.381	(0.971)	75897	5.00000	4.24(a)
81	sec-Butylbenzene	105	9.519	9.519	(0.985)	89261	5.00000	4.38(a)
82	p-Isopropyltoluene	119	9.647	9.647	(0.998)	80480	5.00000	4.32(a)
83	1,3-Dichlorobenzene	146	9.609	9.609	(0.995)	48860	5.00000	4.55(a)
84	1,4-Dichlorobenzene	146	9.680	9.680	(1.002)	56875	5.00000	4.83(a)
86	Benzyl Chloride	91	9.815	9.815	(1.280)	45616	5.00000	5.82(M)
87	n-Butylbenzene	91	9.995	9.995	(1.035)	67203	5.00000	4.31(a)
88	1,2-Dichlorobenzene	146	9.995	9.995	(1.035)	49668	5.00000	4.71(a)
89	1,2-Dibromo-3-Chloropropane	155	10.659	10.659	(1.103)	5268	5.00000	5.83(M)
90	1,2,4-Trichlorobenzene	180	11.349	11.349	(1.175)	33646	5.00000	4.64(aM)
91	Hexachlorobutadiene	225	11.476	11.476	(1.188)	13714	5.00000	6.27
92	Naphthalene	128	11.551	11.551	(1.196)	85025	5.00000	4.74(aM)
93	1,2,3-Trichlorobenzene	180	11.742	11.742	(1.215)	30270	5.00000	4.47(a)
146	Methyl acetate	43	2.236	2.236	(0.535)	23616	5.00000	5.14
138	Freon TF	101	1.921	1.921	(0.460)	16656	5.00000	5.27
141	Cyclohexane	56	4.121	4.121	(0.987)	39083	5.00000	4.37(aH)
142	Tetrahydrofuran	42	3.863	3.863	(0.925)	12650	10.0000	9.54
147	Methylcyclohexane	55	5.399	5.399	(1.088)	84656	5.00000	4.92(aM)
135	1,4-Dioxane	88	5.617	5.617	(1.345)	6551	100.000	106.98(M)
132	n-Butanol	56	5.287	5.287	(1.266)	13588	100.000	79.21(aM)
131	Methyl Acrylate	55	3.716	3.716	(0.890)	33338	5.00000	4.75(aMH)
133	Ethyl Acrylate	55	5.399	5.399	(1.293)	82574	5.00000	4.83(M)
136	n-Hexane	57	2.775	2.775	(0.664)	26276	5.00000	5.21
139	Diethyl ether	59	1.763	1.763	(0.422)	23219	5.00000	4.83(a)
148	Tert-butyl alcohol	59	2.434	2.434	(0.583)	63493	100.000	97.62
149	Isopropyl alcohol	45	2.101	2.101	(0.503)	37998	100.000	94.15
156	Diisopropyl ether	45	3.008	3.008	(0.720)	98591	5.00000	4.64(Ta)
166	1,2,3-Trimethylbenzene	105	9.729	9.729	(1.007)	83294	5.00000	4.57(a)
167	Ethanol	45	1.703	1.703	(0.408)	7997	100.000	94.37
172	tert-Butyl formate	59	4.627	4.627	(1.108)	54968	10.0000	9.98
173	3,3-Dimethyl-1-butanol	57	7.289	7.289	(0.951)	78844	100.000	99.74
174	tert-Amyl methyl ether	73	4.669	4.669	(1.118)	83517	5.00000	4.92(aM)
175	tert-Butyl ethyl ether	59	3.379	3.379	(0.809)	109587	5.00000	5.02
176	tert-Amyl alcohol	59	4.627	4.627	(1.108)	54968	100.000	97.64
151	4-Methyl-2-pentanol	45	6.715	6.715	(1.353)	183123	100.000	104.84(M)
180	1-Methylnaphthalene	142	12.642	12.642	(1.308)	33519	5.00000	(a)
140	1,3-Butadiene	54	1.167	1.167	(0.280)	30818	5.00000	4.65(a)
152	Amyl alcohol	42	6.921	6.921	(0.903)	21498	100.000	101.70(M)
158	Dichlorofluoromethane	67	1.535	1.535	(0.367)	38837	5.00000	4.67
159	Propylene oxide	43	1.808	1.808	(0.433)	7637	10.0000	12.08
161	3-Methyl-1-butanol	55	6.921	6.921	(0.903)	17029	100.000	94.10(M)
162	Butyl acrylate	55	8.256	8.256	(1.077)	63254	5.00000	4.52(a)
163	Butyl methacrylate	41	9.178	9.178	(0.950)	44524	5.00000	4.72(a)
164	Dicyclopentadiene	66	9.680	9.680	(1.002)	101741	5.00000	4.48(a)
182	Epichlorohydrin	57	6.104	6.104	(1.230)	11661	20.0000	19.15
M 94	1,2-Dichloroethylene (total)	96				49534	10.0000	(a)
130	Ethyl Acetate	43	3.679	3.679	(0.881)	39438	5.00000	5.15(M)
134	Cyclohexanone	55	8.646	8.646	(0.895)	36410	100.000	103.93(a)
185	Isoprene	39	1.775	1.775	(0.425)	9011	5.00000	5.30
188	Isopropyl acetate	43	4.684	4.684	(0.943)	98768	5.00000	4.59(a)
187	n-Amyl acetate	43	8.458	8.458	(1.103)	62876	5.00000	4.66(a)

189 n-Butyl acetate	43	7.221	7.221 (0.942)	54777	5.00000	4.86(aH)
150 Allyl alcohol	57	2.775	2.775 (0.664)	26276	100.000	102.36

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
194 Acetaldehyde	44	1.212	1.212	(0.290)	20987	20.0000	27.87(M)
195 Methyl Amyl Ketone	43	8.387	8.387	(1.094)	76515	5.00000	4.98(aH)
200 Dimethyl Disulfide	94	6.202	6.202	(0.809)	44165	5.00000	4.45(a)
202 Isobutylene	41	1.246	1.246	(0.298)	4070	5.00000	4.77(aM)
205 2-Ethylhexyl Acrylate	55	11.551	11.551	(1.196)	41733	5.00000	4.15(a)

QC Flag Legend

T - Target compound detected outside RT window.
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.



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Client ID: VSTD005
Sample Info: VSTD005;VSTD005;1;5;
Purge Volume: 5.0
Column phase: DB624

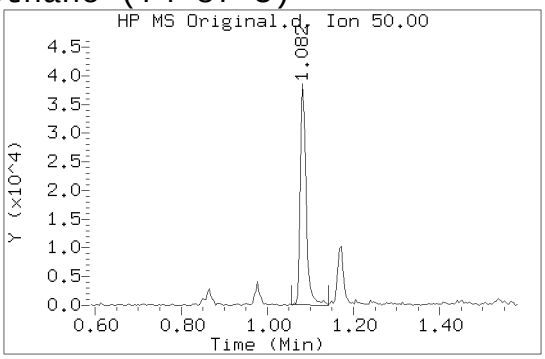
Instrument: voa6.i
Operator: PC
Column diameter: 0.18

Data File : \\NAHSTWS005\Target\chem\voa6.i\X230714.b\X071406.D
Inj Date : 14-JUL-2023 13:43
InstruID : voa6.i
LabSampID : VSTD005

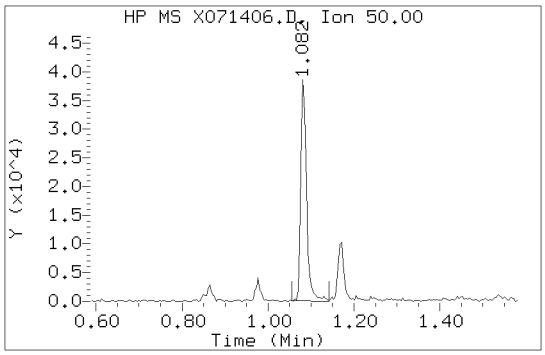
Chloromethane (74-87-3)

Reason Code:

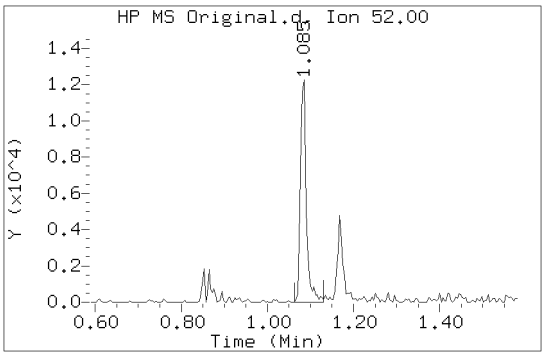
BEFORE
MASS
50
AREA
35282
HEIGHT
38561
20-Jul-2023
15:04
linh
pham



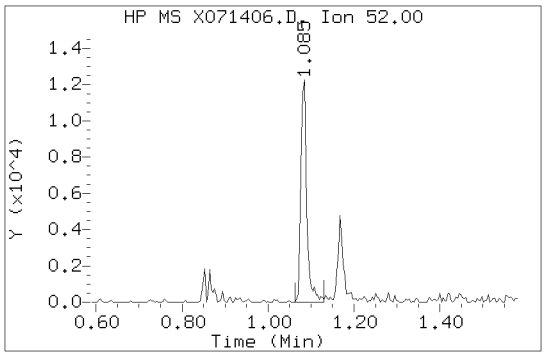
AFTER
MASS
50
AREA
35282
HEIGHT
38561
20-Jul-2023
15:04
linh
pham



BEFORE
MASS
52
AREA
11375
HEIGHT
12257
20-Jul-2023
15:04
linh
pham



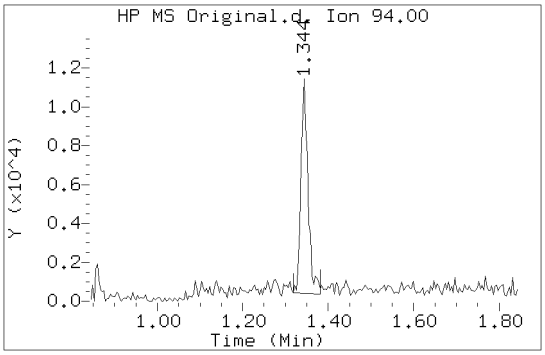
AFTER
MASS
52
AREA
11375
HEIGHT
12257
20-Jul-2023
15:04
linh
pham



Bromomethane (74-83-9)

Reason Code:

BEFORE
MASS
94
AREA
13035
HEIGHT
11040
20-Jul-2023
15:04
linh
pham



AFTER
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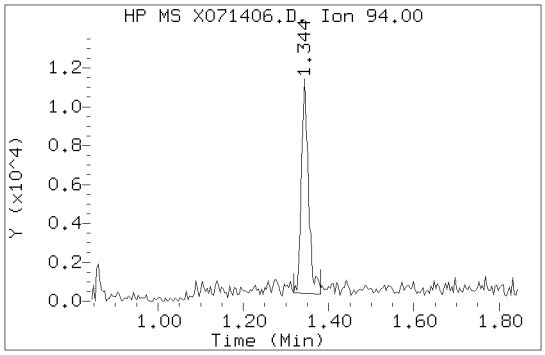
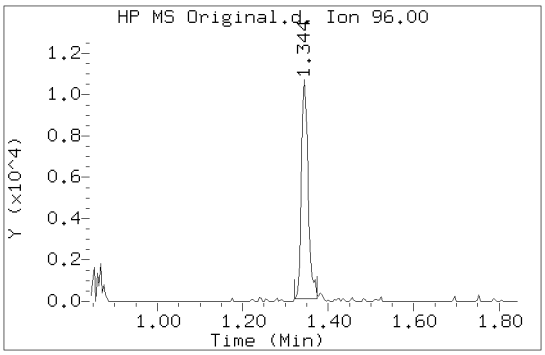
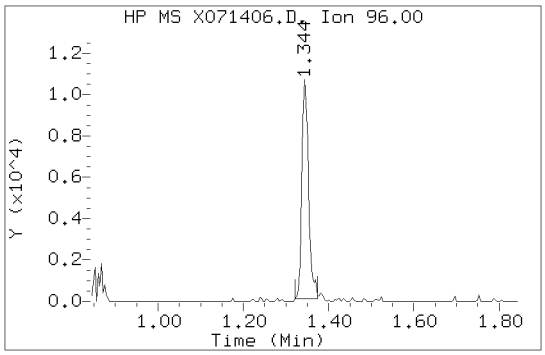
AREA
13035
HEIGHT
11040
20-Jul-2023
15:04
linh
pham



BEFORE
MASS
96
AREA
11843
HEIGHT
10597
20-Jul-2023
15:04
linh
pham



AFTER
MASS
96
AREA
11843
HEIGHT
10597
20-Jul-2023
15:04
linh
pham



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Inj Date : 14-JUL-2023 13:43
InstruID : voa6.i
LabSampID : VSTD005

Iodomethane (74-88-4)

Reason Code:

BEFORE

MASS
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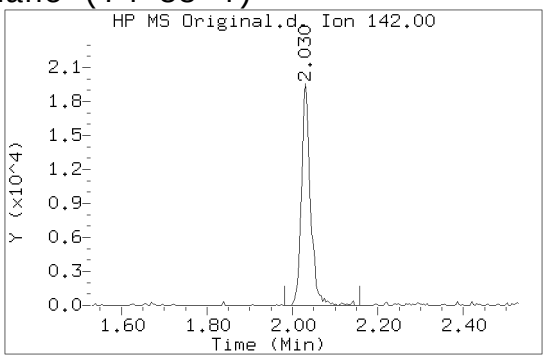
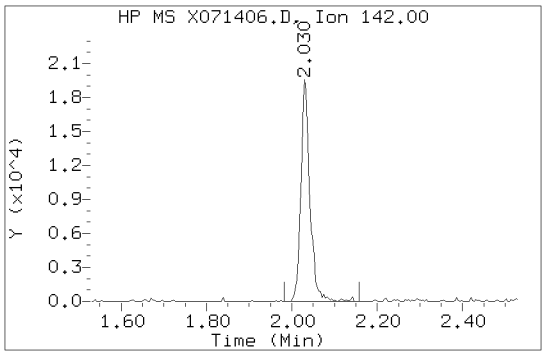
AREA
29645
HEIGHT
19576
20-Jul-2023
15:04
linh
pham



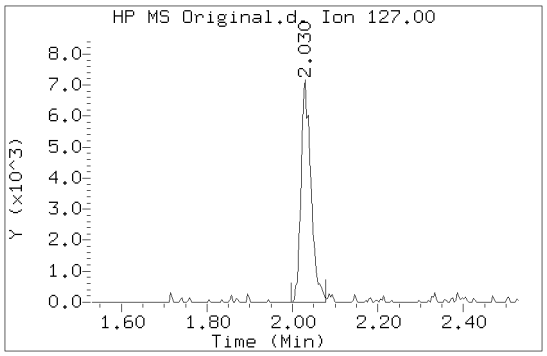
AFTER

MASS
142
AREA
29645
HEIGHT
19576
20-Jul-2023
15:04
linh
pham



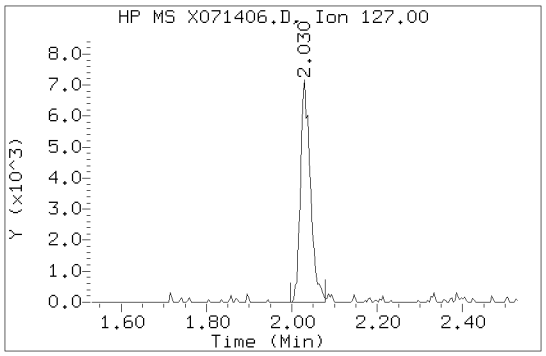
BEFORE

MASS
127
AREA
11941
HEIGHT
7165
20-Jul-2023
15:04
linh
pham



AFTER

MASS
127
AREA
11941
HEIGHT
7165
20-Jul-2023
15:04
linh
pham



BEFORE

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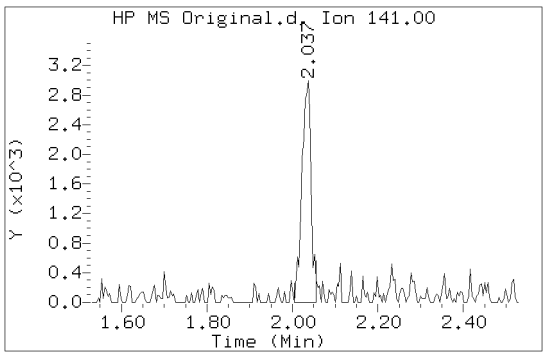
141
AREA
4591
HEIGHT
2994
20-Jul-2023
15:04
linh
pham



AFTER

MASS
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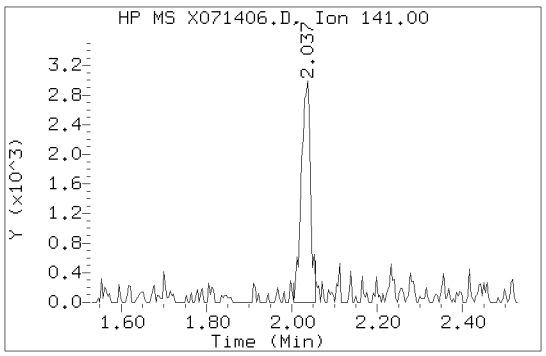
AREA
4591
HEIGHT
2994
20-Jul-2023
15:04
linh
pham

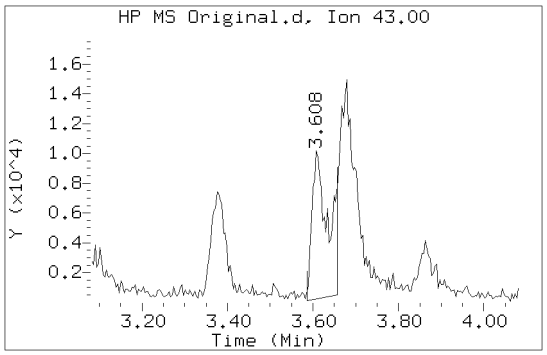


2-Butanone (78-93-3)

Reason Code:

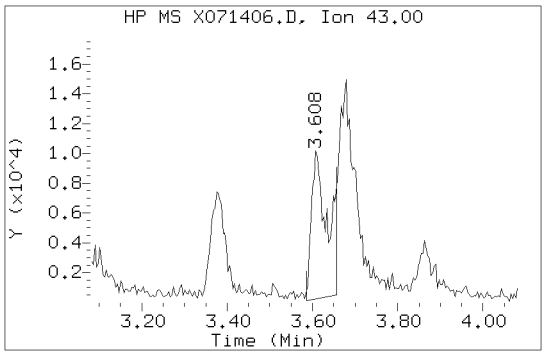
BEFORE

MASS
43
AREA
25624
HEIGHT
9920
20-Jul-2023
15:04
linh
pham



AFTER

MASS
43
AREA
25624
HEIGHT
9920
20-Jul-2023
15:04
linh
pham



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Inj Date : 14-JUL-2023 13:43
InstruID : voa6.i
LabSampID : VSTD005

2-Butanone (78-93-3)

Reason Code:

BEFORE

MASS
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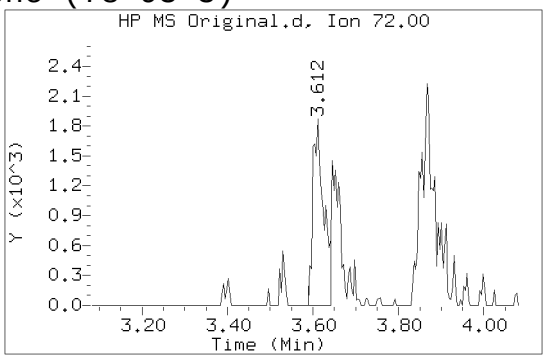
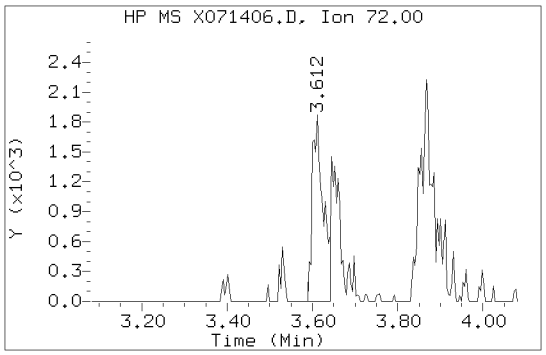
AREA
3309
HEIGHT
1873
20-Jul-2023
15:04
linh
pham



AFTER

MASS
72
AREA
3309
HEIGHT
1873
20-Jul-2023
15:04
linh
pham

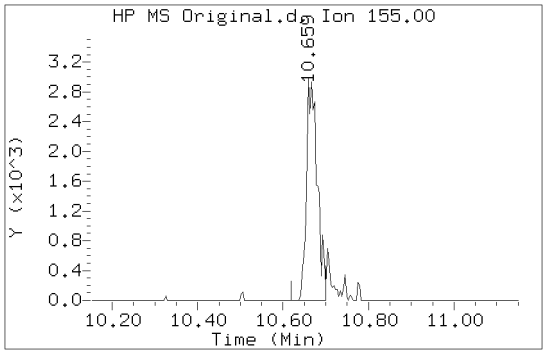


1,2-Dibromo-3-Chloropropane (96-12-8)

Reason Code:

BEFORE

MASS
155
AREA
5268
HEIGHT
2977
20-Jul-2023
15:04
linh
pham



AFTER

MASS
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AREA
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HEIGHT
2977
20-Jul-2023
15:04
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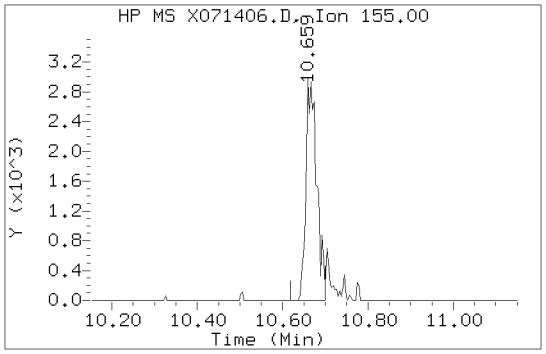
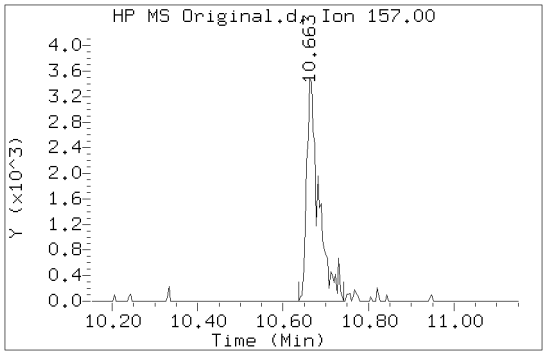
pham



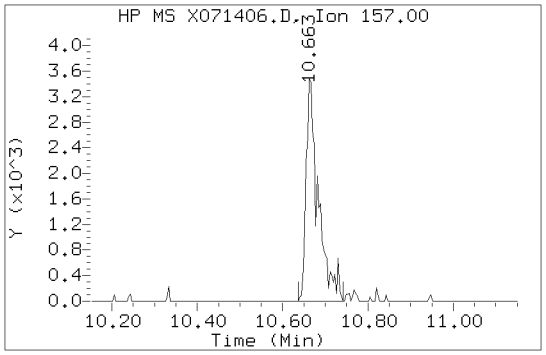
BEFORE

MASS
157
AREA
6914
HEIGHT
3477
20-Jul-2023
15:04
linh
pham



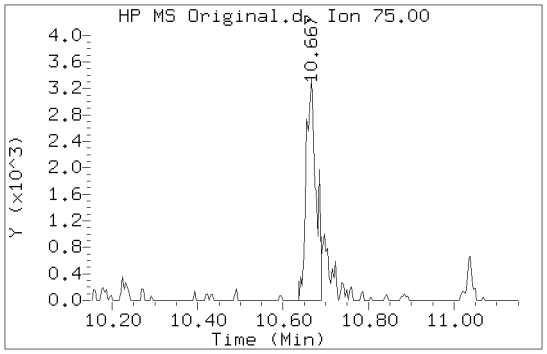
AFTER

MASS
157
AREA
6914
HEIGHT
3477
20-Jul-2023
15:04
linh
pham



BEFORE

MASS
75
AREA
5387
HEIGHT
3348
20-Jul-2023
15:04
linh
pham



AFTER

MASS
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AREA
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HEIGHT
3348
20-Jul-2023
15:04
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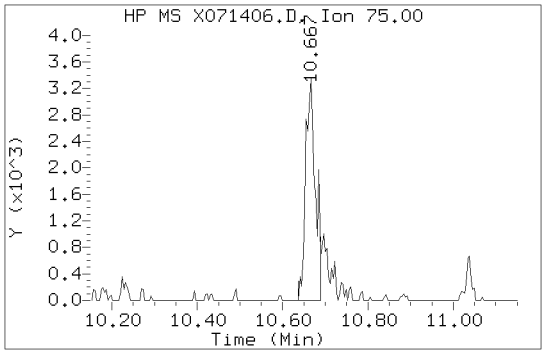
pham



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Inj Date : 14-JUL-2023 13:43
InstruID : voa6.i
LabSampID : VSTD005

1,2,4-Trichlorobenzene (120-82-1)

Reason Code:

BEFORE

MASS
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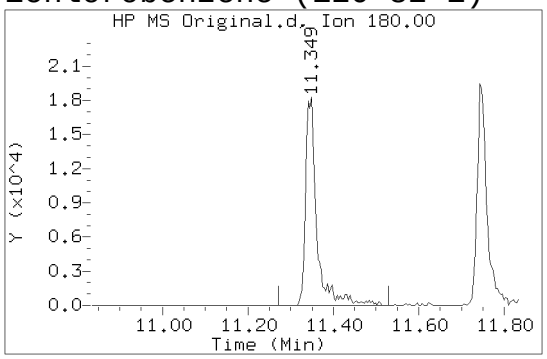
AREA
33646
HEIGHT
18264
20-Jul-2023
15:04
linh
pham



AFTER

MASS
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AREA
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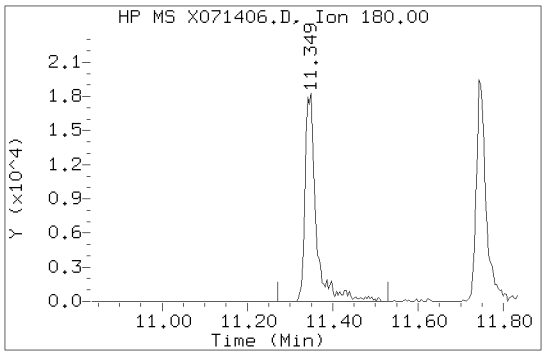
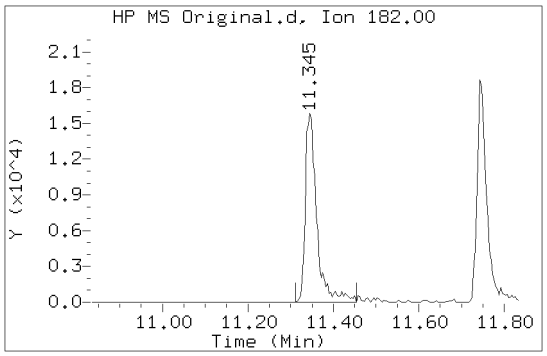
HEIGHT
18264
20-Jul-2023
15:04
linh
pham



BEFORE

MASS
182
AREA
29855
HEIGHT
15861
20-Jul-2023
15:04
linh
pham



AFTER

MASS
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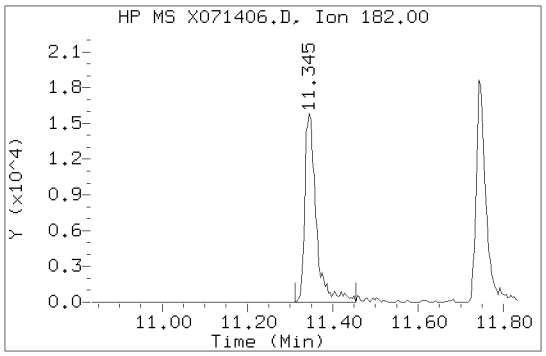
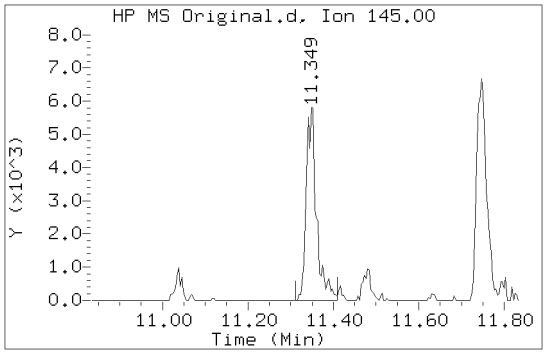
HEIGHT
15861
20-Jul-2023
15:04
linh
pham



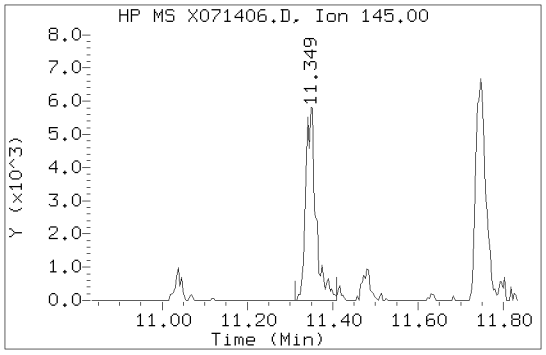
BEFORE

MASS
145
AREA
9753
HEIGHT
5817
20-Jul-2023
15:04
linh
pham



AFTER

MASS
145
AREA
9753
HEIGHT
5817
20-Jul-2023
15:04
linh
pham

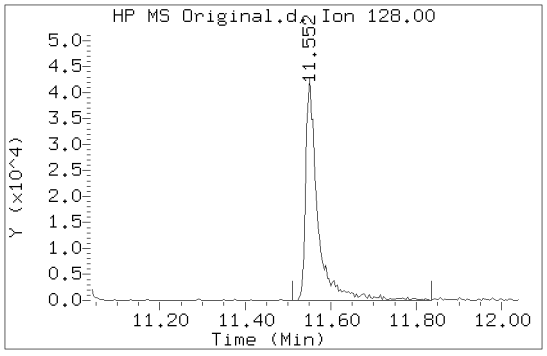


Naphthalene (91-20-3)

Reason Code:

BEFORE

MASS
128
AREA
85025
HEIGHT
42672
20-Jul-2023
15:04
linh
pham



AFTER

MASS
128
AREA
85025
HEIGHT
42672
20-Jul-2023
15:04
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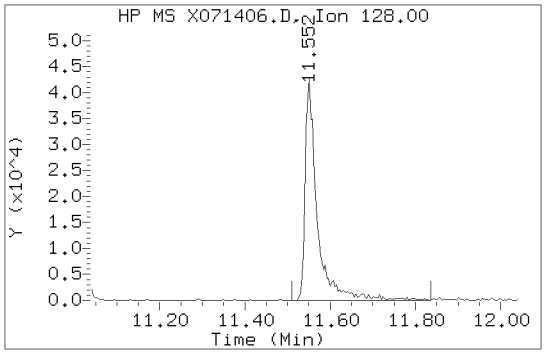
pham



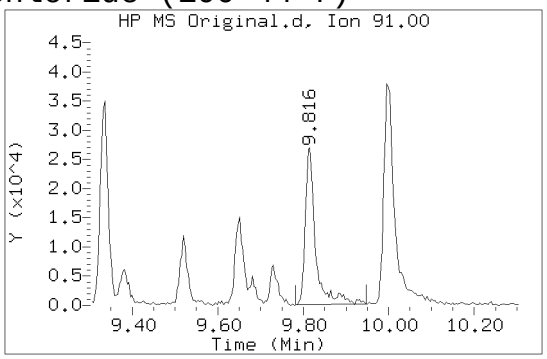
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230714.b\X071406.D
Inj Date : 14-JUL-2023 13:43
InstruID : voa6.i
LabSampID : VSTD005

Benzyl Chloride (100-44-7)

Reason Code:

BEFORE

MASS
91
AREA
45616
HEIGHT
26893
20-Jul-2023
15:04
linh
pham



AFTER

MASS
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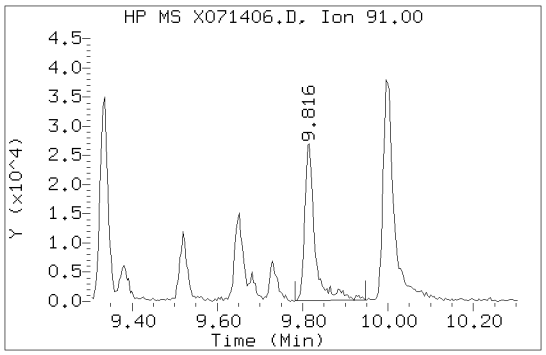
AREA
45616
HEIGHT
26893
20-Jul-2023
15:04
linh
pham



BEFORE

MASS
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AREA
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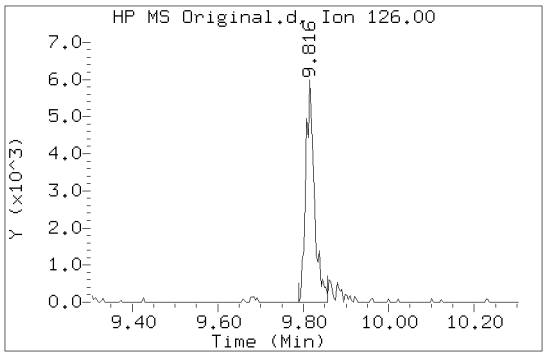
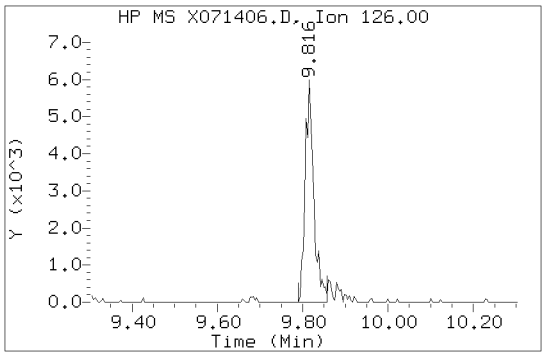
HEIGHT
5989
20-Jul-2023
15:04
linh
pham



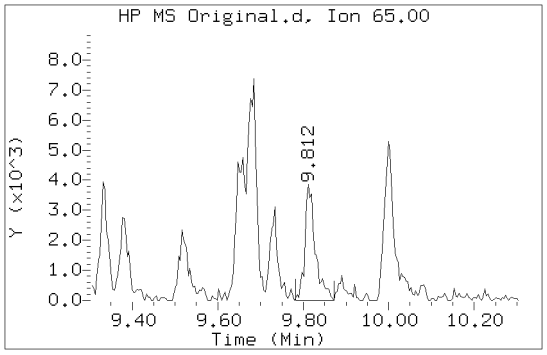
AFTER

MASS
126
AREA
8499
HEIGHT
5989
20-Jul-2023
15:04
linh
pham



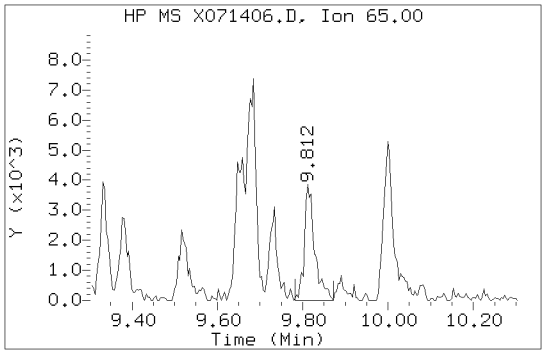
BEFORE

MASS
65
AREA
6591
HEIGHT
3852
20-Jul-2023
15:04
linh
pham



AFTER

MASS
65
AREA
6591
HEIGHT
3852
20-Jul-2023
15:04
linh
pham

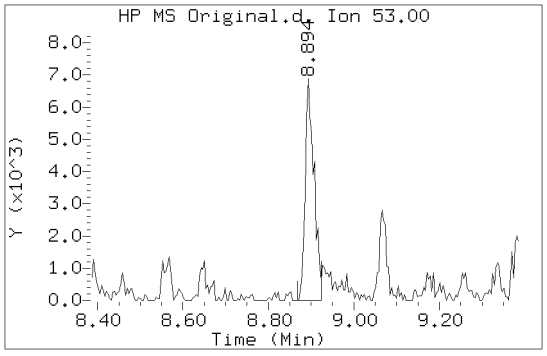


trans-1,4-Dichloro-2-butene (110-57-6)

Reason Code:

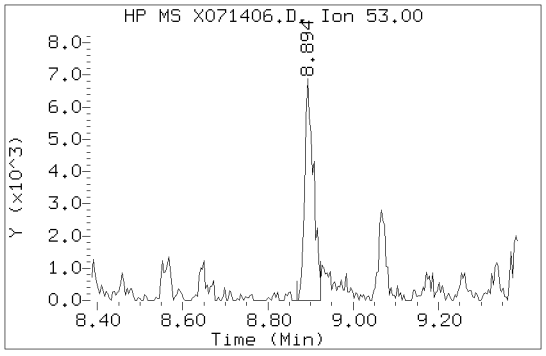
BEFORE

MASS
53
AREA
9958
HEIGHT
6886
20-Jul-2023
15:04
linh
pham



AFTER

MASS
53
AREA
9958
HEIGHT
6886
20-Jul-2023
15:04
linh
pham



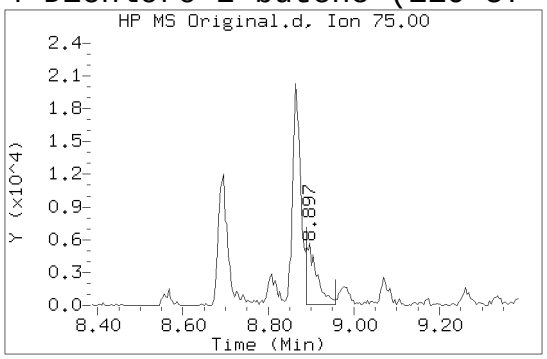
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230714.b\X071406.D
Inj Date : 14-JUL-2023 13:43
InstruID : voa6.i
LabSampID : VSTD005

trans-1,4-Dichloro-2-butene (110-57-6)

Reason Code:

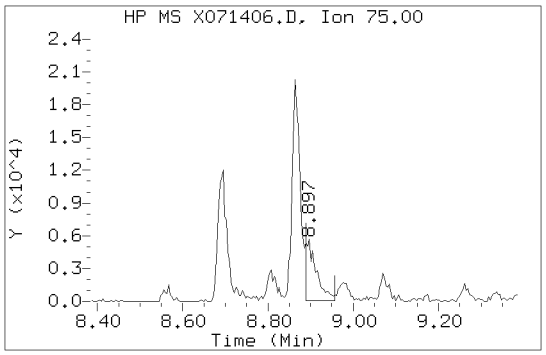
BEFORE

MASS
75
AREA
9615
HEIGHT
5621
20-Jul-2023
15:04
linh
pham



AFTER

MASS
75
AREA
9615
HEIGHT
5621
20-Jul-2023
15:04
linh
pham

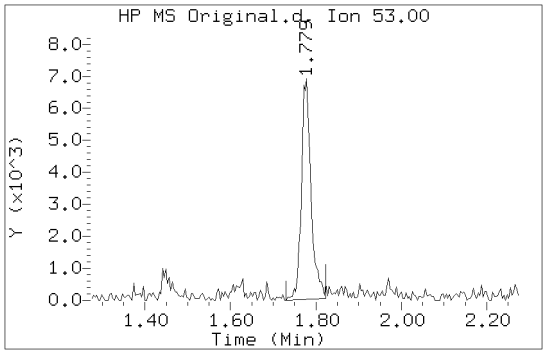


Chloroprene (126-99-8)

Reason Code:

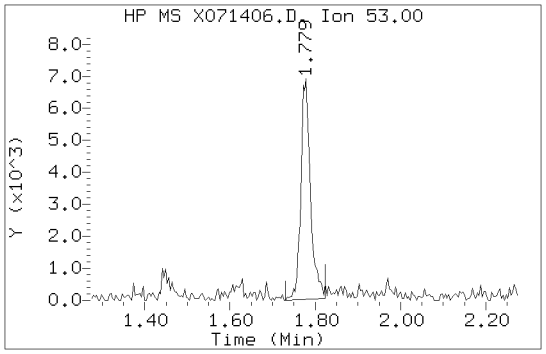
BEFORE

MASS
53
AREA
11212
HEIGHT
6900
20-Jul-2023
15:04
linh
pham



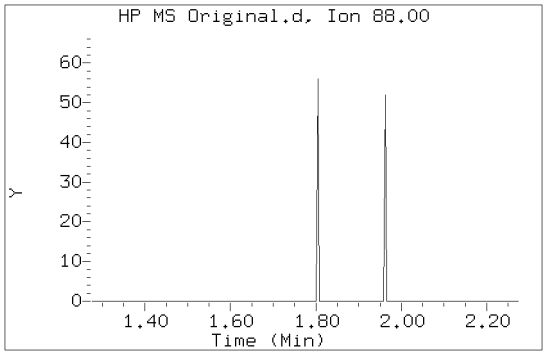
AFTER

MASS
53
AREA
11212
HEIGHT
6900
20-Jul-2023
15:04
linh
pham



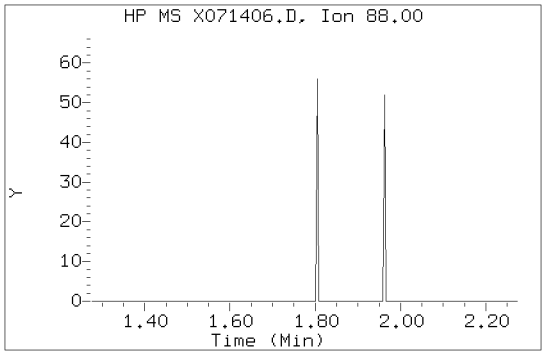
BEFORE

MASS
88
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham



AFTER

MASS
88
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham

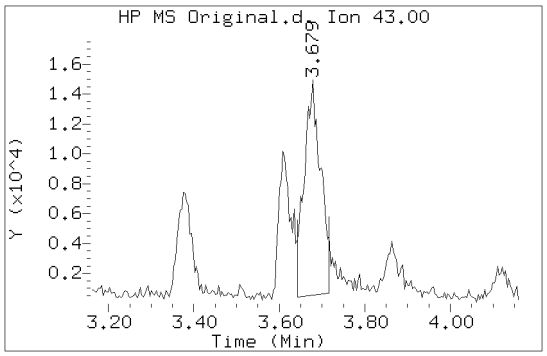


Ethyl Acetate (141-78-6)

Reason Code:

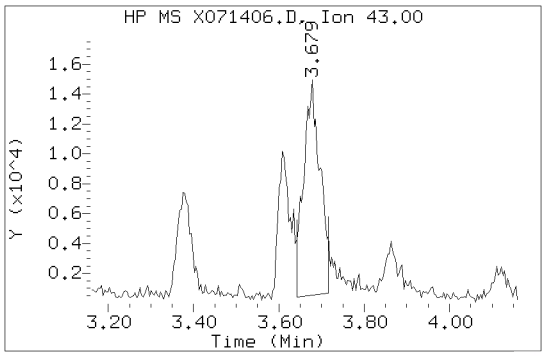
BEFORE

MASS
43
AREA
39438
HEIGHT
14396
20-Jul-2023
15:04
linh
pham



AFTER

MASS
43
AREA
39438
HEIGHT
14396
20-Jul-2023
15:04
linh
pham



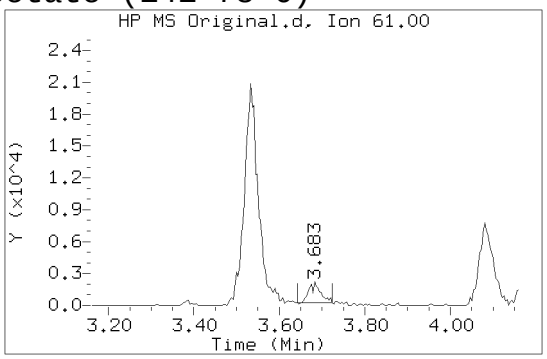
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230714.b\X071406.D
Inj Date : 14-JUL-2023 13:43
InstruID : voa6.i
LabSampID : VSTD005

Ethyl Acetate (141-78-6)

Reason Code:

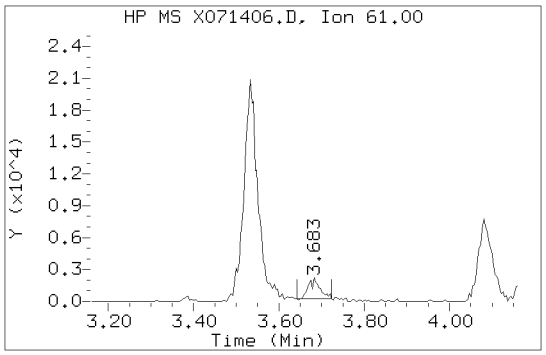
BEFORE

MASS
61
AREA
3702
HEIGHT
2000
20-Jul-2023
15:04
linh
pham



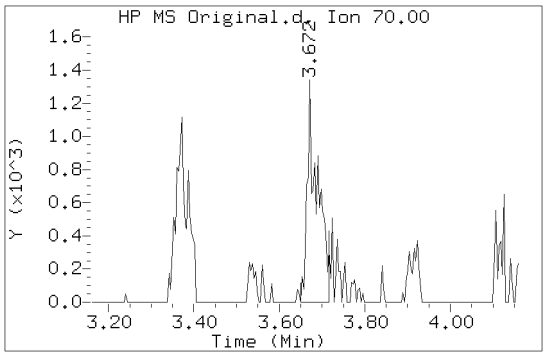
AFTER

MASS
61
AREA
3702
HEIGHT
2000
20-Jul-2023
15:04
linh
pham



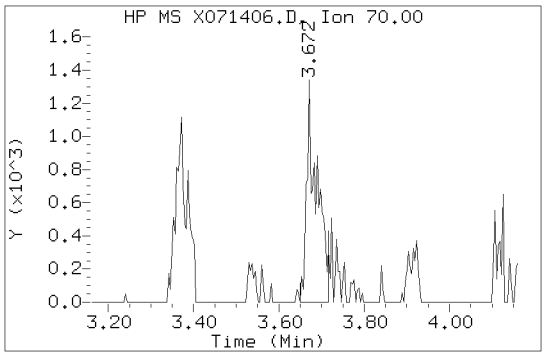
BEFORE

MASS
70
AREA
2283
HEIGHT
1341
20-Jul-2023
15:04
linh
pham



AFTER

MASS
70
AREA
2283
HEIGHT
1341
20-Jul-2023
15:04
linh
pham

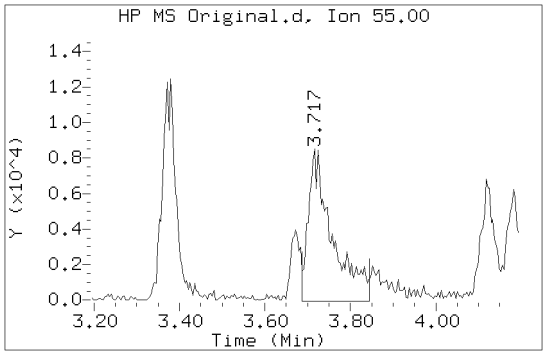


Methyl Acrylate (96-33-3)

Reason Code:

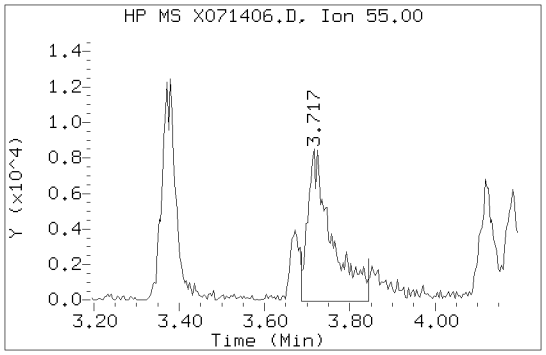
BEFORE

MASS
55
AREA
33338
HEIGHT
8583
20-Jul-2023
15:04
linh
pham



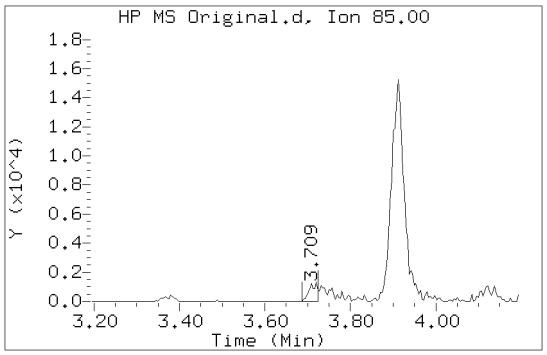
AFTER

MASS
55
AREA
33338
HEIGHT
8583
20-Jul-2023
15:04
linh
pham



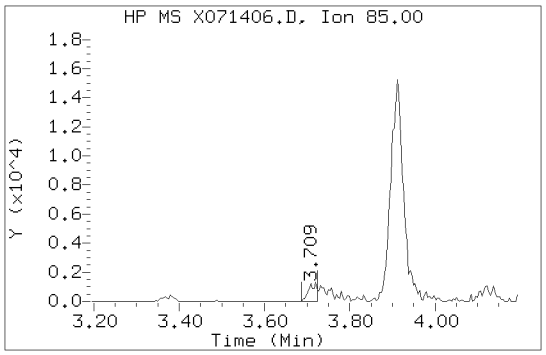
BEFORE

MASS
85
AREA
1657
HEIGHT
1216
20-Jul-2023
15:04
linh
pham



AFTER

MASS
85
AREA
1657
HEIGHT
1216
20-Jul-2023
15:04
linh
pham



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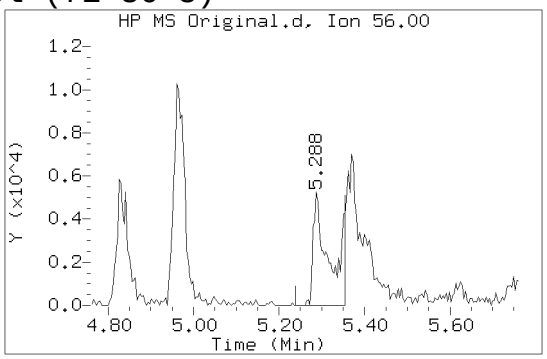
Inj Date : 14-JUL-2023 13:43
InstruID : voa6.i
LabSampID : VSTD005

n-Butanol (71-36-3)

Reason Code:

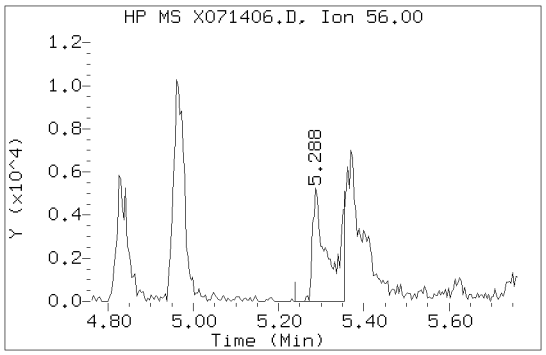
BEFORE

MASS
56
AREA
13588
HEIGHT
5250
20-Jul-2023
15:04
linh
pham



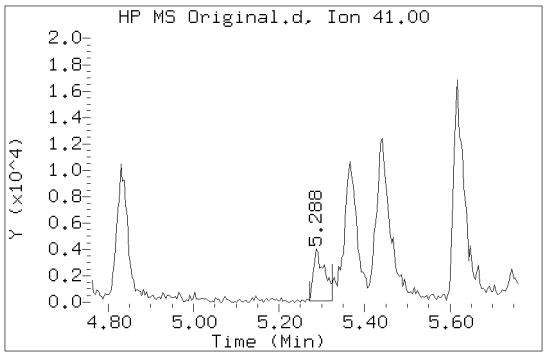
AFTER

MASS
56
AREA
13588
HEIGHT
5250
20-Jul-2023
15:04
linh
pham



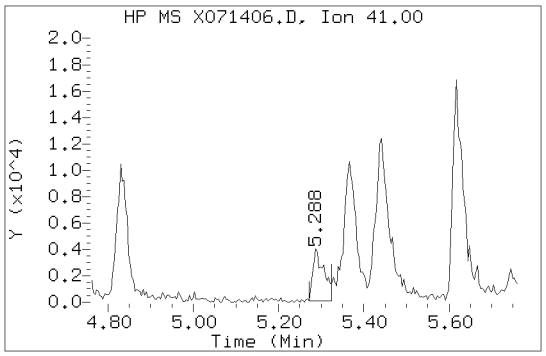
BEFORE

MASS
41
AREA
7179
HEIGHT
3942
20-Jul-2023
15:04
linh
pham



AFTER

MASS
41
AREA
7179
HEIGHT
3942
20-Jul-2023
15:04
linh
pham

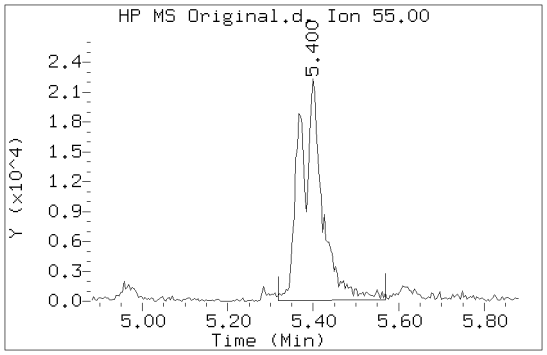


Ethyl Acrylate (140-88-5)

Reason Code:

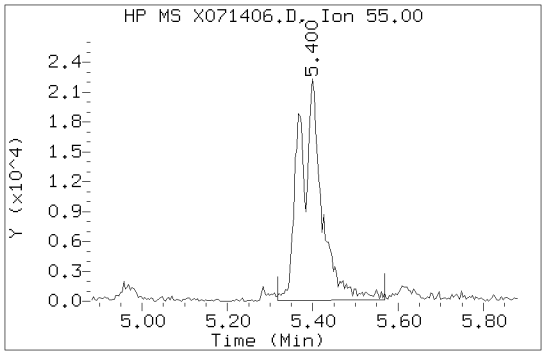
BEFORE

MASS
55
AREA
82574
HEIGHT
22225
20-Jul-2023
15:04
linh
pham



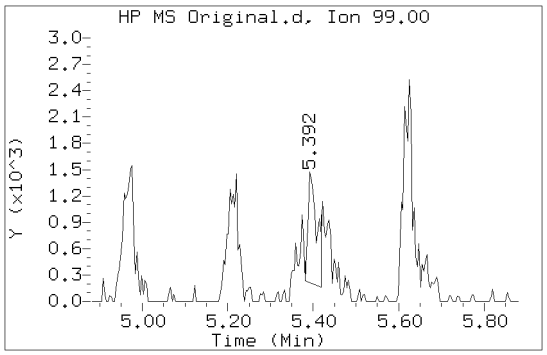
AFTER

MASS
55
AREA
82574
HEIGHT
22225
20-Jul-2023
15:04
linh
pham



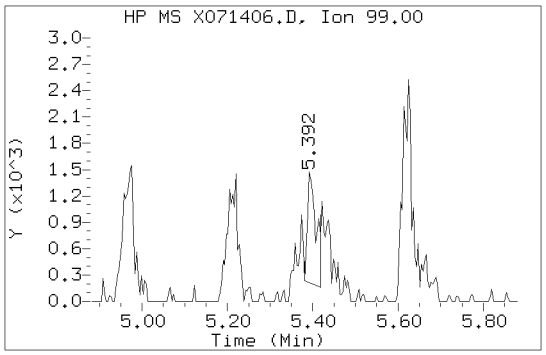
BEFORE

MASS
99
AREA
1773
HEIGHT
1256
20-Jul-2023
15:04
linh
pham



AFTER

MASS
99
AREA
1773
HEIGHT
1256
20-Jul-2023
15:04
linh
pham



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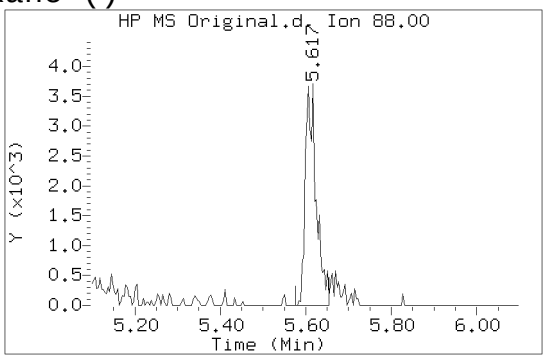
Inj Date : 14-JUL-2023 13:43
InstruID : voa6.i
LabSampID : VSTD005

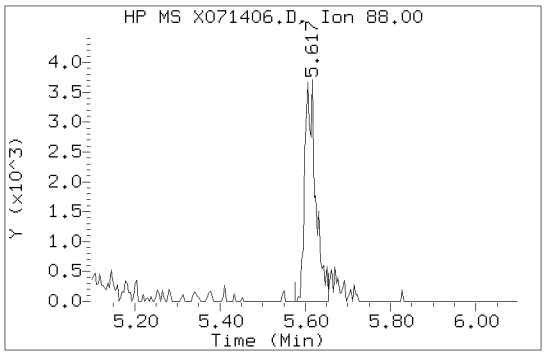
1,4-Dioxane ()

Reason Code:

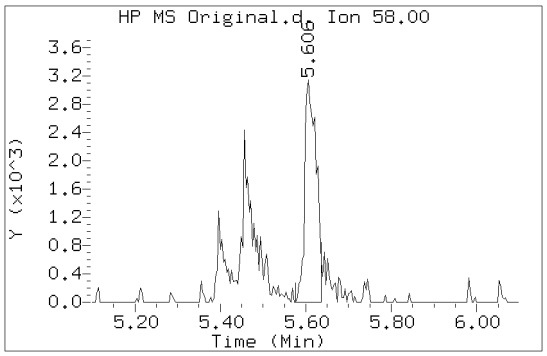
BEFORE
MASS
88
AREA
6551
HEIGHT
3709
20-Jul-2023
15:04
linh
pham



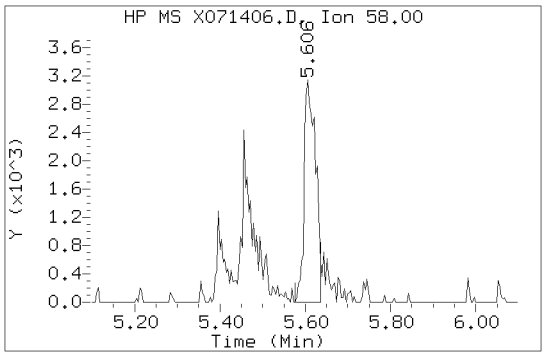
AFTER
MASS
88
AREA
6551
HEIGHT
3709
20-Jul-2023
15:04
linh
pham



BEFORE
MASS
58
AREA
5961
HEIGHT
3144
20-Jul-2023
15:04
linh
pham



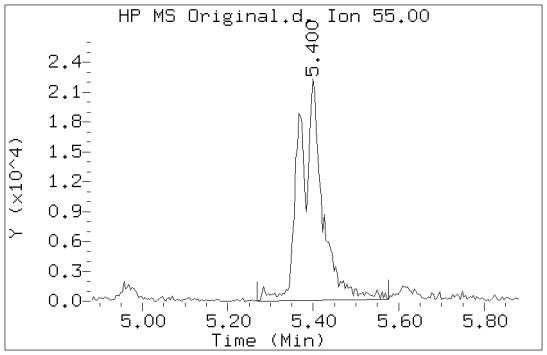
AFTER
MASS
58
AREA
5961
HEIGHT
3144
20-Jul-2023
15:04
linh
pham



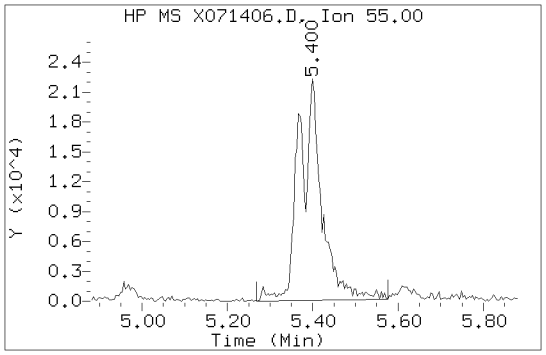
Methylcyclohexane (108-87-2)

Reason Code:

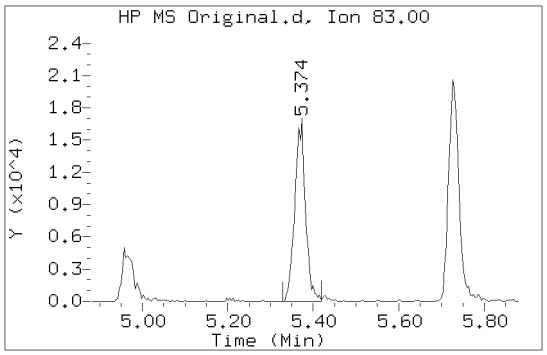
BEFORE
MASS
55
AREA
84656
HEIGHT
22257
20-Jul-2023
15:04
linh
pham



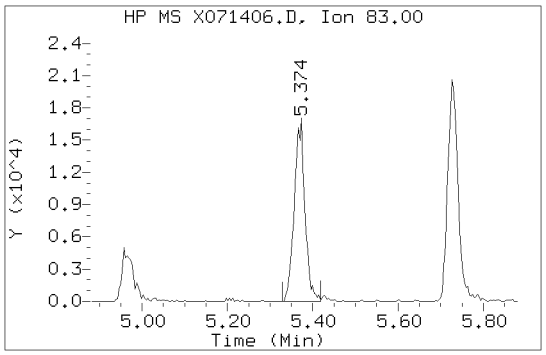
AFTER
MASS
55
AREA
84656
HEIGHT
22257
20-Jul-2023
15:04
linh
pham



BEFORE
MASS
83
AREA
30014
HEIGHT
17040
20-Jul-2023
15:04
linh
pham



AFTER
MASS
83
AREA
30014
HEIGHT
17040
20-Jul-2023
15:04
linh
pham



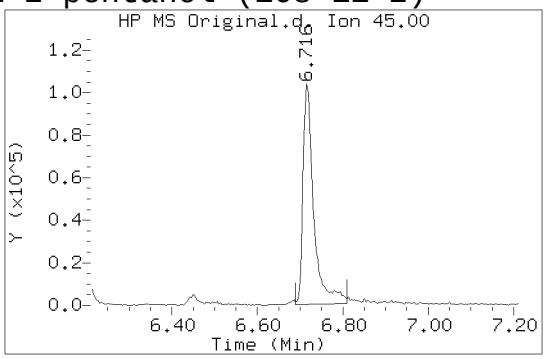
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230714.b\X071406.D
Inj Date : 14-JUL-2023 13:43
InstruID : voa6.i
LabSampID : VSTD005

4-Methyl-2-pentanol (108-11-2)

Reason Code:

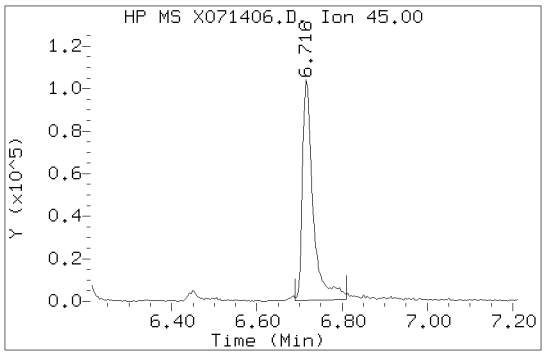
BEFORE

MASS
45
AREA
183123
HEIGHT
103764
20-Jul-2023
15:04
linh
pham



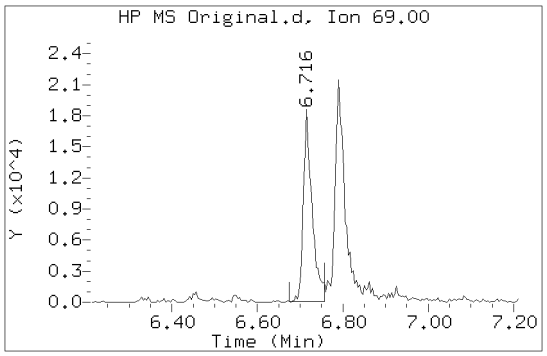
AFTER

MASS
45
AREA
183123
HEIGHT
103764
20-Jul-2023
15:04
linh
pham



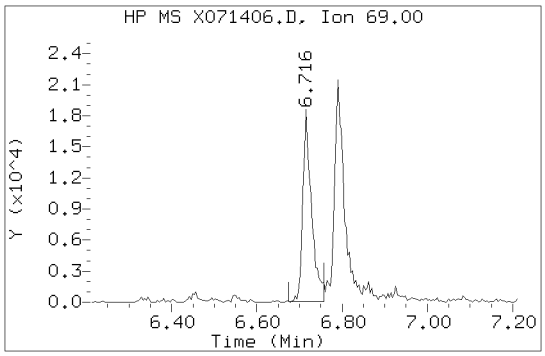
BEFORE

MASS
69
AREA
26485
HEIGHT
18576
20-Jul-2023
15:04
linh
pham



AFTER

MASS
69
AREA
26485
HEIGHT
18576
20-Jul-2023
15:04
linh
pham

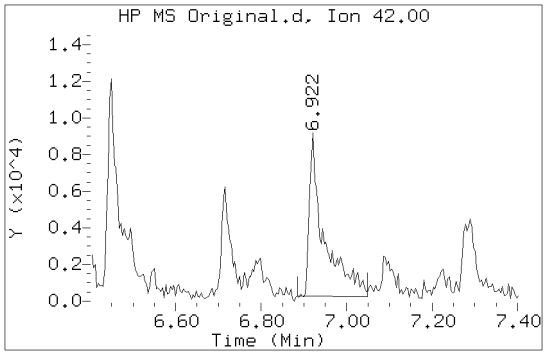


Amyl alcohol (71-41-0)

Reason Code:

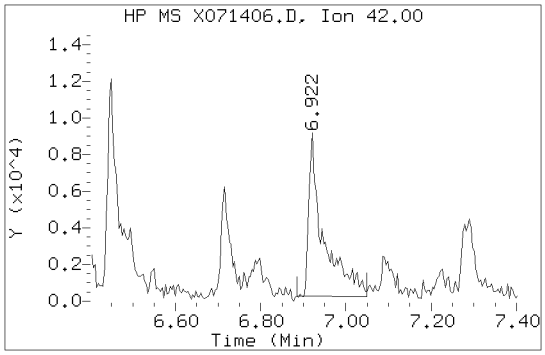
BEFORE

MASS
42
AREA
21498
HEIGHT
8913
20-Jul-2023
15:04
linh
pham



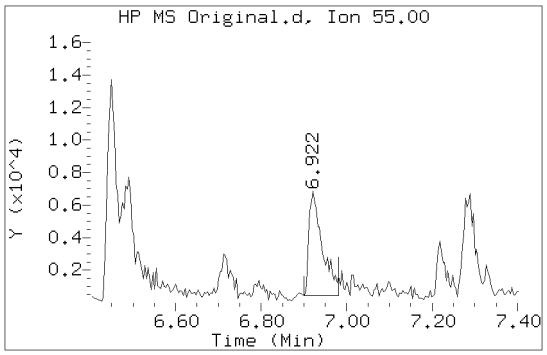
AFTER

MASS
42
AREA
21498
HEIGHT
8913
20-Jul-2023
15:04
linh
pham



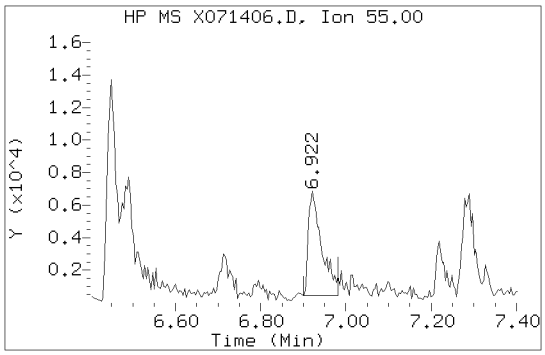
BEFORE

MASS
55
AREA
14214
HEIGHT
6435
20-Jul-2023
15:04
linh
pham



AFTER

MASS
55
AREA
14214
HEIGHT
6435
20-Jul-2023
15:04
linh
pham



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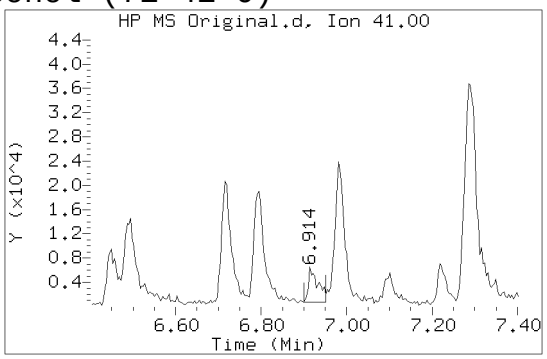
Inj Date : 14-JUL-2023 13:43
InstruID : voa6.i
LabSampID : VSTD005

Amyl alcohol (71-41-0)

Reason Code:

BEFORE

MASS
41
AREA
8850
HEIGHT
5781
20-Jul-2023
15:04
linh
pham



AFTER

MASS
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AREA
8850
HEIGHT
5781
20-Jul-2023
15:04
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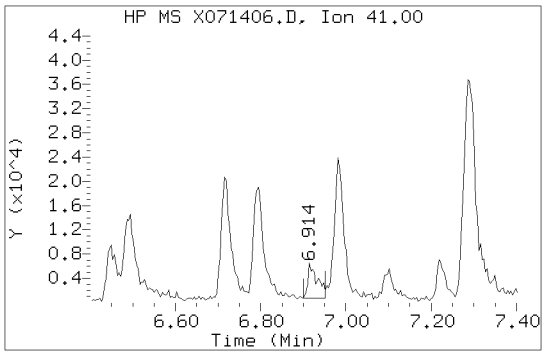
pham



3-Methyl-1-butanol (123-51-3)

Reason Code:

BEFORE

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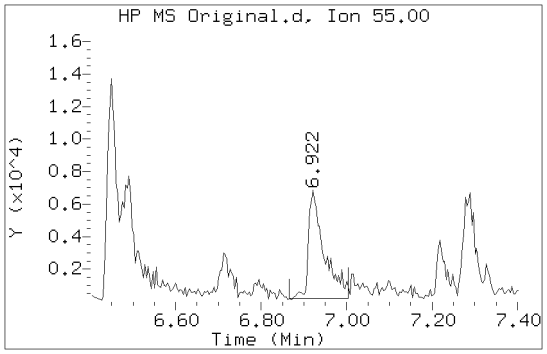
55
AREA
17029
HEIGHT
6664
20-Jul-2023
15:04
linh
pham



AFTER

MASS
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AREA
17029
HEIGHT
6664
20-Jul-2023
15:04
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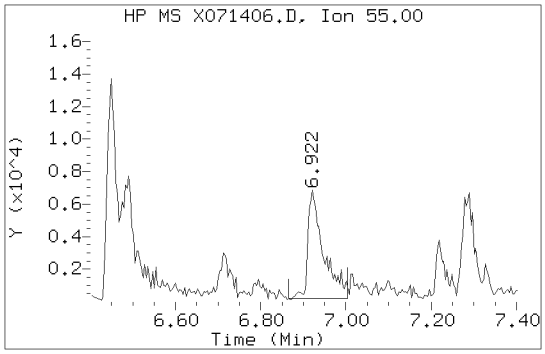
pham



BEFORE

MASS
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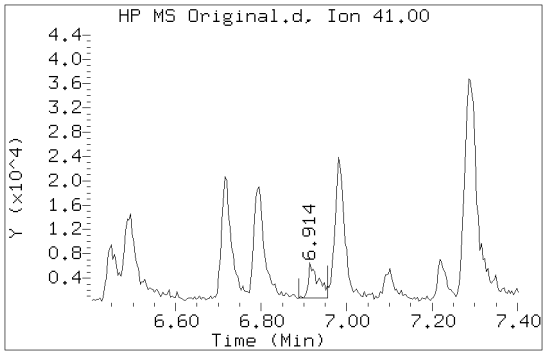
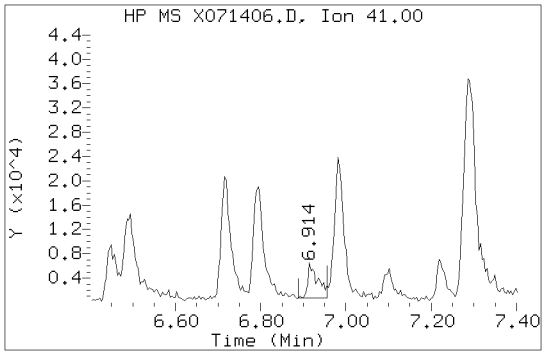
AREA
9490
HEIGHT
5807
20-Jul-2023
15:04
linh
pham



AFTER

MASS
41
AREA
9490
HEIGHT
5807
20-Jul-2023
15:04
linh
pham

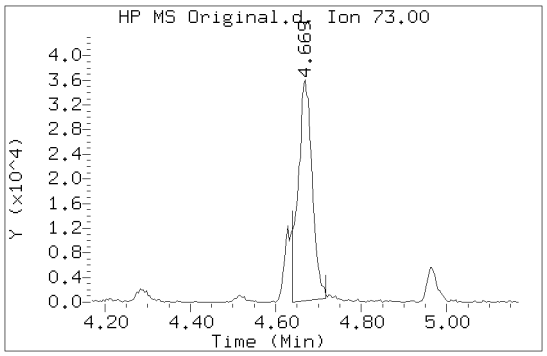


tert-Amyl methyl ether (974-05-08)

Reason Code:

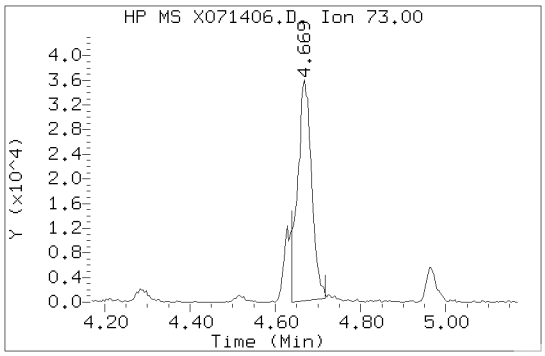
BEFORE

MASS
73
AREA
83517
HEIGHT
35784
20-Jul-2023
15:04
linh
pham



AFTER

MASS
73
AREA
83517
HEIGHT
35784
20-Jul-2023
15:04
linh
pham



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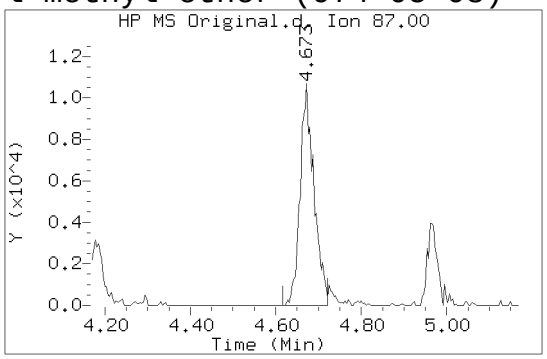
Inj Date : 14-JUL-2023 13:43
InstruID : voa6.i
LabSampID : VSTD005

tert-Amyl methyl ether (974-05-08)

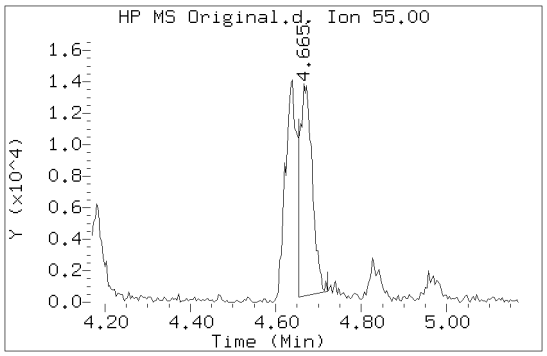
BEFORE

MASS
87
AREA
24319
HEIGHT
10688
20-Jul-2023
15:04
linh
pham



BEFORE

MASS
55
AREA
27476
HEIGHT
13484
20-Jul-2023
15:04
linh
pham



Reason Code:

AFTER

MASS
87
AREA
24319
HEIGHT
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20-Jul-2023
15:04
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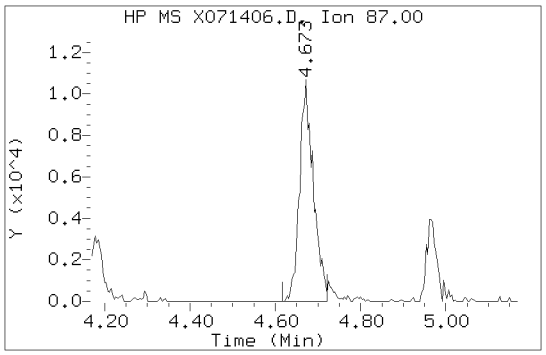
pham



AFTER

MASS
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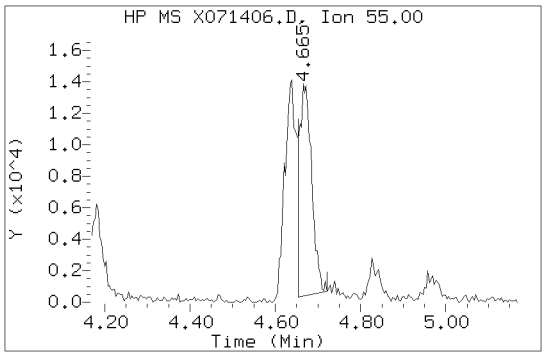
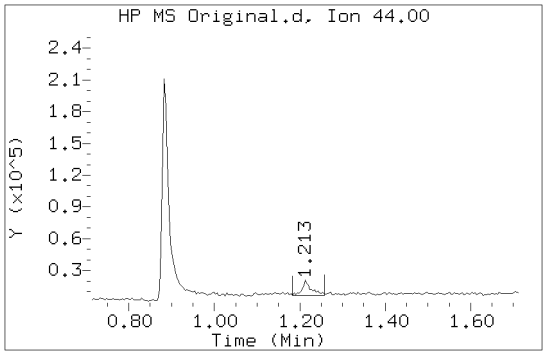
HEIGHT
13484
20-Jul-2023
15:04
linh
pham



Acetaldehyde (75-07-0)

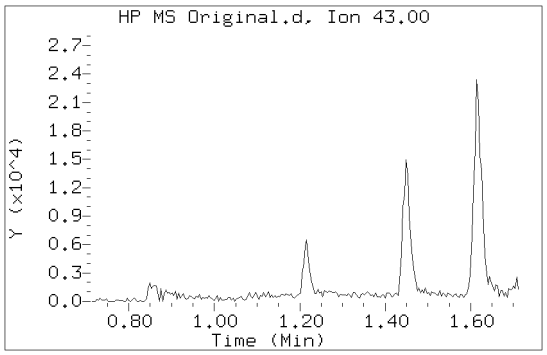
BEFORE

MASS
44
AREA
20987
HEIGHT
14166
20-Jul-2023
15:04
linh
pham



BEFORE

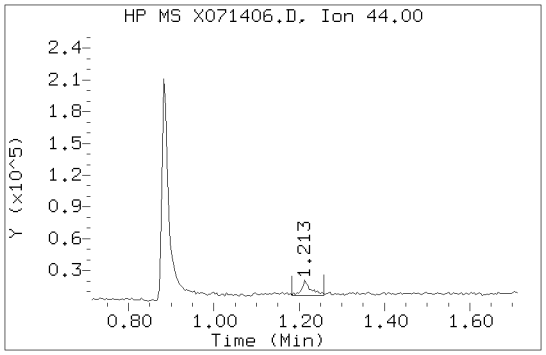
MASS
43
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham



Reason Code:

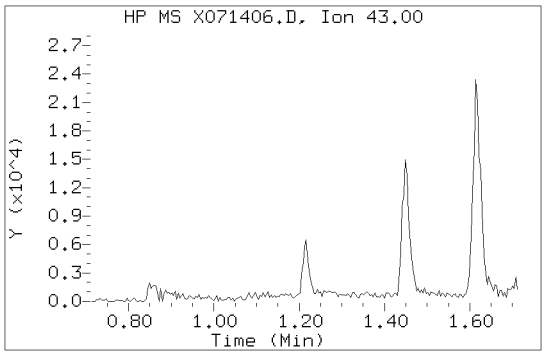
AFTER

MASS
44
AREA
20987
HEIGHT
14166
20-Jul-2023
15:04
linh
pham



AFTER

MASS
43
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham



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Inj Date : 14-JUL-2023 13:43
InstruID : voa6.i
LabSampID : VSTD005

Acetaldehyde (75-07-0)

Reason Code:

BEFORE

MASS
42
AREA
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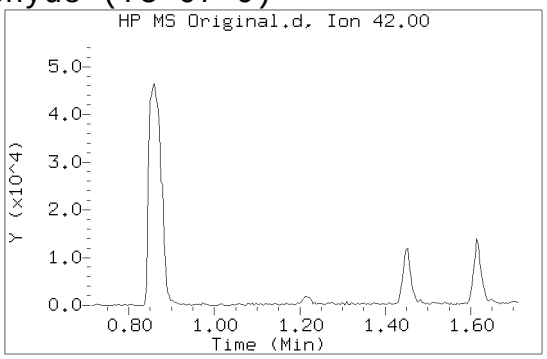
HEIGHT
0
20-Jul-2023
15:04
linh
pham



AFTER

MASS
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AREA
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HEIGHT
0
20-Jul-2023
15:04
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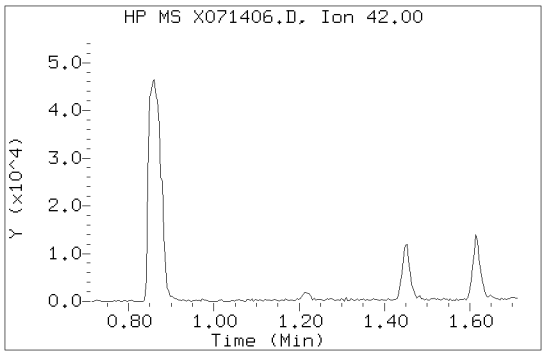
pham

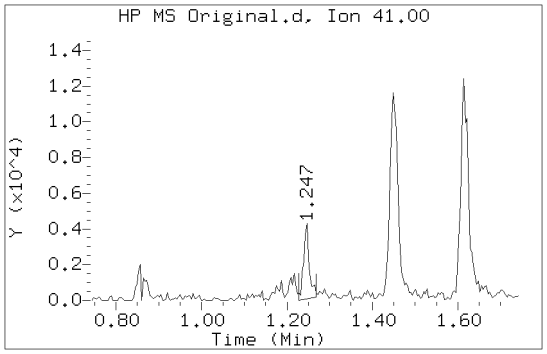


Isobutylene (115-11-7)

Reason Code:

BEFORE

MASS
41
AREA
4070
HEIGHT
4236
20-Jul-2023
15:04
linh
pham



AFTER

MASS
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HEIGHT
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20-Jul-2023
15:04
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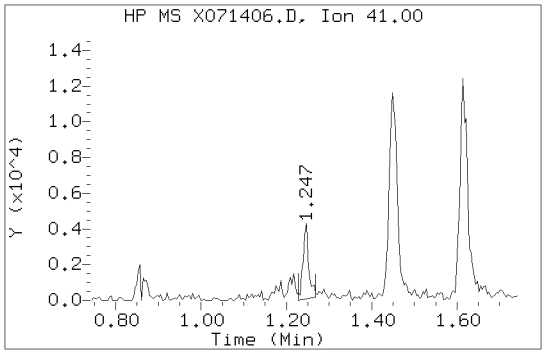
pham



BEFORE

MASS
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AREA
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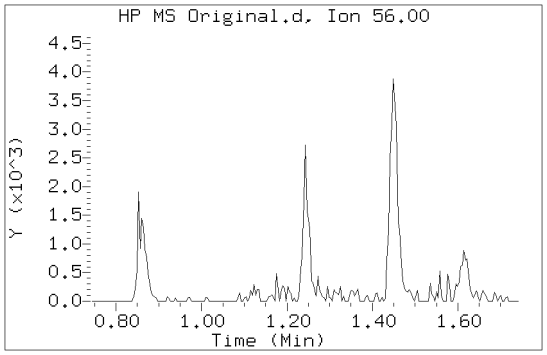
HEIGHT
0
20-Jul-2023
15:04
linh
pham



AFTER

MASS
56
AREA
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HEIGHT
0
20-Jul-2023
15:04
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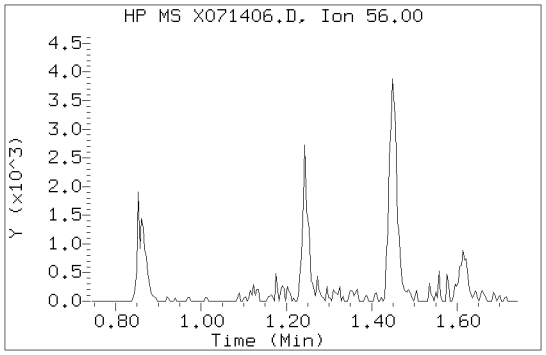
pham



BEFORE

MASS
84
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HEIGHT
0
20-Jul-2023
15:04
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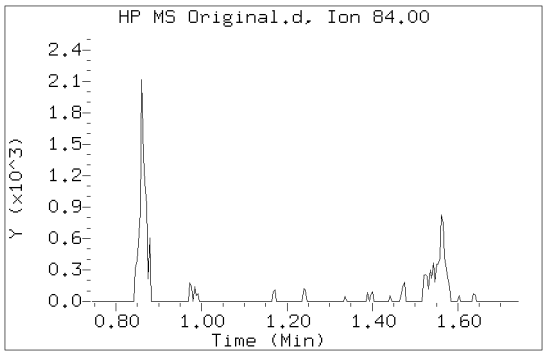
pham



AFTER

MASS
84
AREA
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HEIGHT
0
20-Jul-2023
15:04
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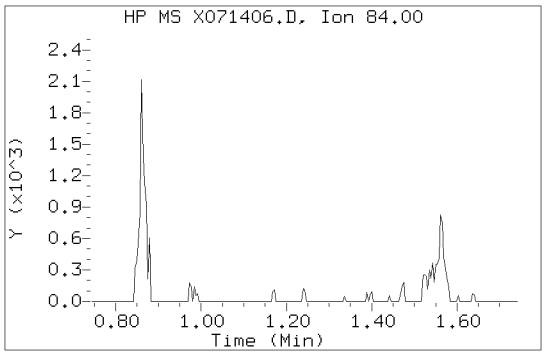
pham



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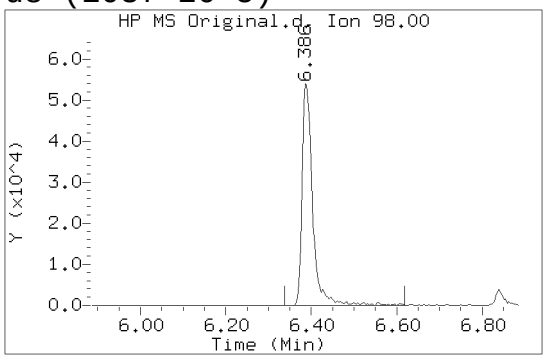
Inj Date : 14-JUL-2023 13:43
InstruID : voa6.i
LabSampID : VSTD005

Toluene-d8 (2037-26-5)

Reason Code:

BEFORE
MASS
98
AREA
95273
HEIGHT
53976
20-Jul-2023
15:04
linh
pham



AFTER
MASS
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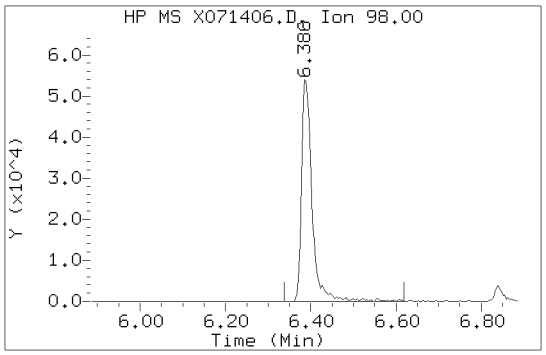
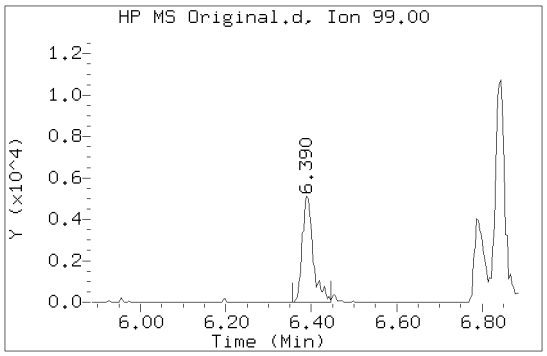
AREA
95273
HEIGHT
53976
20-Jul-2023
15:04
linh
pham



BEFORE
MASS
99
AREA
9222
HEIGHT
5118
20-Jul-2023
15:04
linh
pham



AFTER
MASS
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AREA
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HEIGHT
5118
20-Jul-2023
15:04
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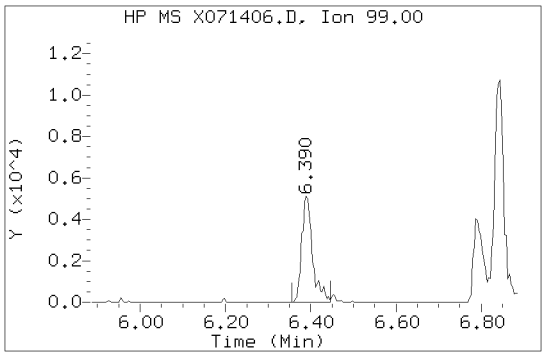
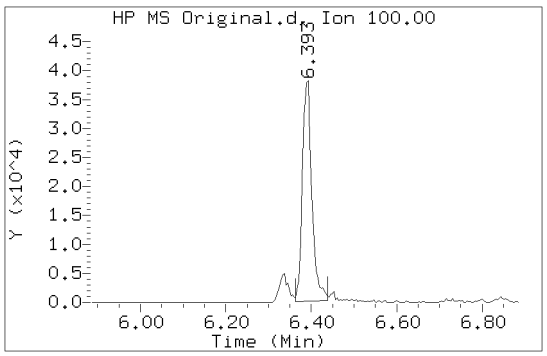


BEFORE
MASS
100
AREA
60371
HEIGHT
38037
20-Jul-2023
15:04
linh
pham



AFTER
MASS
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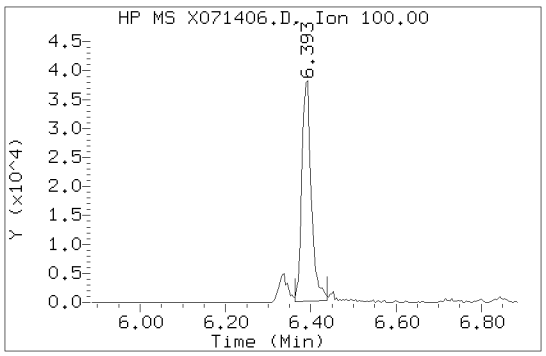
AREA
60371
HEIGHT
38037
20-Jul-2023
15:04
linh
pham



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230714.b\X071407.D Page 1
Report Date: 20-Jul-2023 15:05

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230714.b\X071407.D
Lab Smp Id: VSTD020 Client Smp ID: VSTD020
Inj Date : 14-JUL-2023 14:04
Operator : PC Inst ID: voa6.i
Smp Info : VSTD020;VSTD020;1;6;
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230714.b\8260W.m
Meth Date : 20-Jul-2023 15:05 voa6.i Quant Type: ISTD
Cal Date : 14-JUL-2023 13:43 Cal File: X071406.D
Als bottle: 8 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1 Pentafluorobenzene	168	4.178	4.178	(1.000)	507763	50.0000	
2 Dichlorodifluoromethane	85	0.976	0.976	(0.234)	94710	20.0000	18.92
3 Chloromethane	50	1.081	1.081	(0.259)	133501	20.0000	17.40
4 Propionitrile	54	3.660	3.660	(0.876)	205441	200.000	204.24(a)
5 Vinyl Chloride	62	1.145	1.145	(0.274)	126856	20.0000	19.30
6 Bromomethane	94	1.344	1.344	(0.322)	48177	20.0000	17.71
7 Chloroethane	64	1.407	1.407	(0.337)	72133	20.0000	19.23
8 Trichlorofluoromethane	101	1.561	1.561	(0.374)	132138	20.0000	19.84
9 Acrolein	56	1.865	1.865	(0.446)	6957	40.0000	36.90(H)
10 Acetone	43	1.977	1.977	(0.473)	92232	40.0000	43.26
11 1,1-Dichloroethene	96	1.917	1.917	(0.459)	72938	20.0000	19.60
12 Isobutyl Alcohol	43	4.680	4.680	(1.120)	401784	400.000	417.43(a)
13 Acetonitrile	39	2.198	2.198	(0.526)	138938	200.000	195.13(a)
14 Allyl Chloride	41	2.198	2.198	(0.526)	321229	20.0000	19.26(a)
15 Iodomethane	142	2.030	2.030	(0.486)	147770	40.0000	33.32
16 Acrylonitrile	53	2.539	2.539	(0.608)	96410	40.0000	38.96
17 Methylene Chloride	84	2.303	2.303	(0.551)	93705	20.0000	20.53
18 Methyl tert-butyl ether	73	2.539	2.539	(0.608)	272881	20.0000	19.72
19 Carbon Disulfide	76	2.075	2.075	(0.497)	443798	40.0000	37.95
20 trans-1,2-Dichloroethene	96	2.528	2.528	(0.605)	83048	20.0000	19.30

21 Vinyl Acetate	43	3.004	3.004 (0.719)	716288	40.0000	40.25
22 1,1-Dichloroethane	63	2.922	2.922 (0.699)	180478	20.0000	19.11

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	23 Chloroprene	53	1.775	1.775	(0.425)	42093	20.0000	18.43(M)
	24 2-Butanone	43	3.593	3.593	(0.860)	103083	40.0000	38.12
	25 Methacrylonitrile	41	3.833	3.833	(0.917)	134358	20.0000	20.49(a)
	26 2,2-Dichloropropane	77	3.510	3.510	(0.840)	136770	20.0000	18.78
	27 cis-1,2-Dichloroethene	96	3.525	3.525	(0.844)	106626	20.0000	19.45
	28 Chloroform	83	3.904	3.904	(0.935)	185575	20.0000	19.20
	29 Bromochloromethane	128	3.799	3.799	(0.909)	58138	20.0000	18.92
$	30 Dibromofluoromethane	113	4.103	4.103	(0.982)	100577	20.0000	21.17
	31 1,1,1-Trichloroethane	97	4.084	4.084	(0.978)	145149	20.0000	19.51
	32 1,1-Dichloropropene	75	4.283	4.283	(0.863)	122898	20.0000	18.90
	33 1,2-Dichloroethane	62	4.556	4.556	(0.918)	173705	20.0000	19.79
	34 Carbon Tetrachloride	117	4.264	4.264	(0.859)	124542	20.0000	19.01
$	35 1,2-Dichloroethane-d4	65	4.470	4.470	(1.070)	125030	20.0000	21.12
*	36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	797093	50.0000	
	37 Benzene	78	4.511	4.511	(0.909)	377488	20.0000	19.79
	38 Trichloroethene	130	5.208	5.208	(1.049)	104832	20.0000	19.43
	39 Bromodichloromethane	83	5.726	5.726	(1.153)	141699	20.0000	19.40
	40 Methyl Methacrylate	41	5.610	5.610	(1.343)	116657	20.0000	19.03(a)
	41 2-Chloroethylvinyl ether	63	6.048	6.048	(1.218)	89929	40.0000	40.33
	42 1,2-Dichloropropane	63	5.437	5.437	(1.095)	123713	20.0000	20.17
	43 2-Nitropropane	43	5.969	5.969	(1.429)	38152	20.0000	18.91
	44 Dibromomethane	93	5.553	5.553	(1.119)	68138	20.0000	19.63
	45 4-Methyl-2-Pentanone	43	6.326	6.326	(0.825)	285574	40.0000	39.47
	46 cis-1,3-Dichloropropene	75	6.153	6.153	(1.239)	165788	20.0000	19.76
*	47 Chlorobenzene-d5	117	7.668	7.668	(1.000)	735188	50.0000	
$	48 Toluene-d8	98	6.386	6.386	(0.833)	356461	20.0000	18.83(M)
	49 Ethyl Methacrylate	69	6.712	6.712	(1.352)	101772	20.0000	19.49(a)
	50 Toluene	91	6.446	6.446	(0.841)	392472	20.0000	19.83
	51 trans-1,3-Dichloropropene	75	6.682	6.682	(1.346)	139738	20.0000	19.76
	52 2-Hexanone	43	7.090	7.090	(0.925)	197105	40.0000	41.47
	53 1,1,2-Trichloroethane	83	6.835	6.835	(0.891)	84947	20.0000	20.23
	54 1,3-Dichloropropane	76	6.982	6.982	(0.911)	170222	20.0000	19.84
	55 Dibromochloromethane	129	7.173	7.173	(0.935)	118768	20.0000	19.59
	56 Tetrachloroethene	164	6.922	6.922	(0.903)	79779	20.0000	19.51
	57 1,2-Dibromoethane	107	7.259	7.259	(0.947)	99972	20.0000	20.83
	58 1-Chlorohexane	55	7.694	7.694	(1.550)	123726	20.0000	19.32
	59 Chlorobenzene	112	7.694	7.694	(1.003)	270232	20.0000	19.53
	60 1,1,1,2-Tetrachloroethane	131	7.773	7.773	(1.014)	107430	20.0000	19.83
	61 Ethylbenzene	106	7.795	7.795	(1.017)	131122	20.0000	18.90
	62 m,p-Xylenes	106	7.904	7.904	(1.031)	341700	40.0000	39.26
	63 o-Xylene	106	8.237	8.237	(1.074)	162342	20.0000	19.69
	64 Styrene	104	8.260	8.260	(1.077)	282779	20.0000	19.67
	66 Bromoform	173	8.406	8.406	(1.096)	75861	20.0000	19.50
	67 Isopropylbenzene	105	8.560	8.560	(1.116)	405778	20.0000	19.15
	68 1,1,2,2-Tetrachloroethane	83	8.837	8.837	(0.915)	127719	20.0000	19.39
$	69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	153161	20.0000	20.67
*	70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	392137	50.0000	
	71 1,2,3-Trichloropropane	75	8.860	8.860	(0.917)	106108	20.0000	20.30(M)
	72 trans-1,4-Dichloro-2-butene	53	8.886	8.886	(1.159)	44727	20.0000	20.00(a)
	73 n-Propylbenzene	91	8.908	8.908	(0.922)	471016	20.0000	19.87
	74 Bromobenzene	156	8.803	8.803	(0.911)	121594	20.0000	19.82
	75 1,3,5-Trimethylbenzene	105	9.066	9.066	(0.938)	331762	20.0000	18.68

76	2-Chlorotoluene	91	8.972	8.972 (0.929)	320833	20.0000	20.07
77	4-Chlorotoluene	91	9.070	9.070 (0.939)	358181	20.0000	20.39

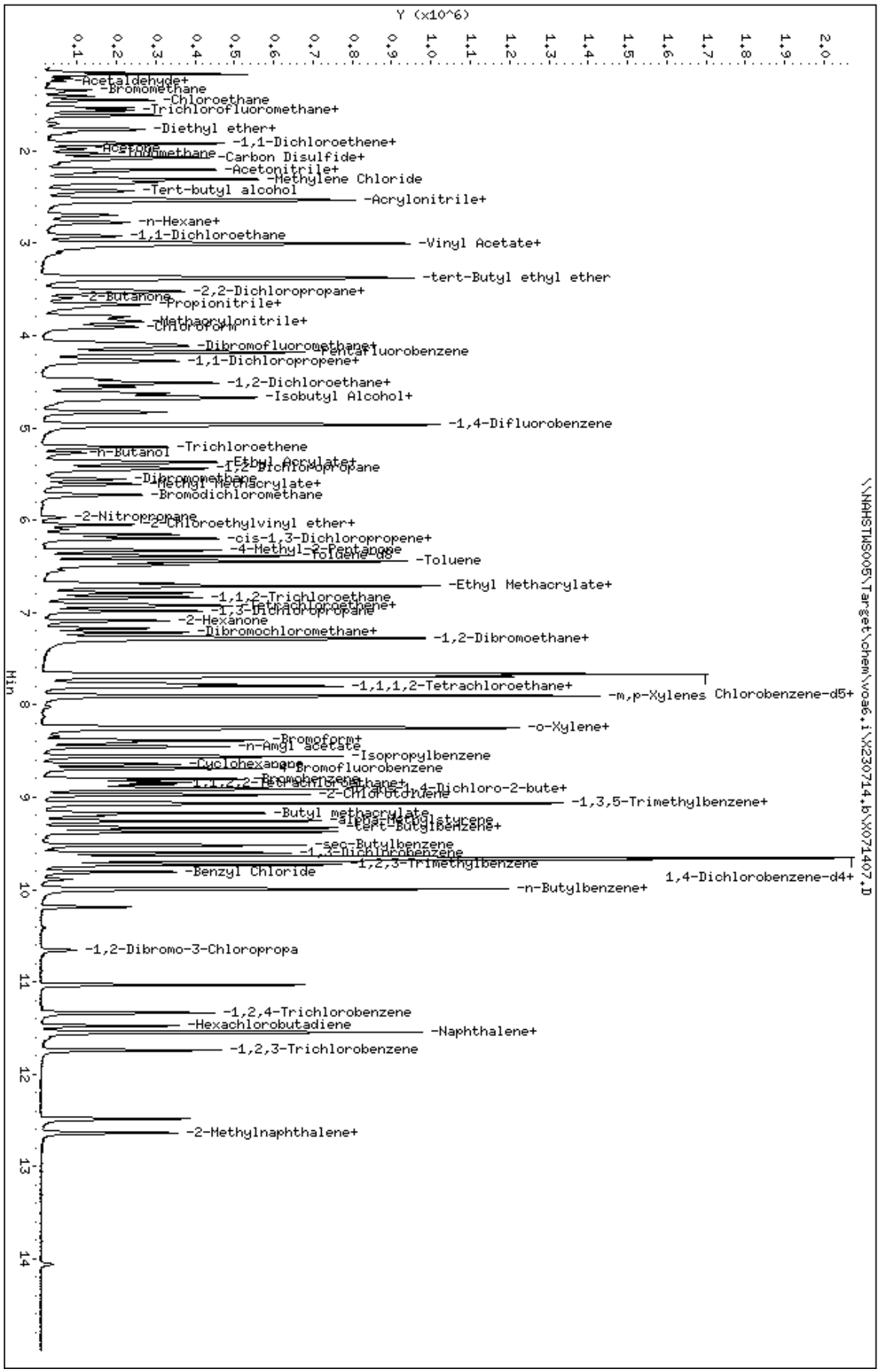
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
78	tert-Butylbenzene	119	9.332	9.332	(0.966)	287767	20.0000	18.90
79	1,2,4-Trimethylbenzene	105	9.377	9.377	(0.971)	336741	20.0000	18.91
81	sec-Butylbenzene	105	9.519	9.519	(0.985)	394513	20.0000	19.44
82	p-Isopropyltoluene	119	9.647	9.647	(0.998)	346253	20.0000	18.67
83	1,3-Dichlorobenzene	146	9.606	9.606	(0.994)	208939	20.0000	19.55
84	1,4-Dichlorobenzene	146	9.677	9.677	(1.002)	230542	20.0000	19.68
86	Benzyl Chloride	91	9.808	9.808	(1.279)	196200	20.0000	17.29
87	n-Butylbenzene	91	9.992	9.992	(1.034)	282220	20.0000	18.17
88	1,2-Dichlorobenzene	146	9.992	9.992	(1.034)	209204	20.0000	19.91
89	1,2-Dibromo-3-Chloropropane	155	10.659	10.659	(1.103)	19568	20.0000	18.76
90	1,2,4-Trichlorobenzene	180	11.337	11.337	(1.173)	123442	20.0000	17.11
91	Hexachlorobutadiene	225	11.476	11.476	(1.188)	52647	20.0000	17.44
92	Naphthalene	128	11.540	11.540	(1.194)	325767	20.0000	18.24
93	1,2,3-Trichlorobenzene	180	11.739	11.739	(1.215)	122392	20.0000	18.14
146	Methyl acetate	43	2.232	2.232	(0.534)	91399	20.0000	20.22
138	Freon TF	101	1.917	1.917	(0.459)	67796	20.0000	23.07(M)
141	Cyclohexane	56	4.121	4.121	(0.987)	165922	20.0000	18.85(H)
142	Tetrahydrofuran	42	3.851	3.851	(0.922)	53361	40.0000	40.84
147	Methylcyclohexane	55	5.388	5.388	(1.085)	328269	20.0000	19.51(M)
135	1,4-Dioxane	88	5.606	5.606	(1.342)	23823	400.000	394.82
132	n-Butanol	56	5.265	5.265	(1.260)	60771	400.000	359.52(a)
131	Methyl Acrylate	55	3.702	3.702	(0.886)	135453	20.0000	19.62(H)
133	Ethyl Acrylate	55	5.388	5.388	(1.290)	335022	20.0000	19.90
136	n-Hexane	57	2.772	2.772	(0.664)	106667	20.0000	23.04
139	Diethyl ether	59	1.763	1.763	(0.422)	93008	20.0000	19.64
148	Tert-butyl alcohol	59	2.434	2.434	(0.583)	251621	400.000	392.62
149	Isopropyl alcohol	45	2.097	2.097	(0.502)	157344	400.000	395.67
156	Diisopropyl ether	45	3.008	3.008	(0.720)	419096	20.0000	20.02
166	1,2,3-Trimethylbenzene	105	9.729	9.729	(1.007)	351806	20.0000	19.40
167	Ethanol	45	1.703	1.703	(0.408)	30252	400.000	415.32
172	tert-Butyl formate	59	4.627	4.627	(1.108)	202938	40.0000	37.41(M)
173	3,3-Dimethyl-1-butanol	57	7.285	7.285	(0.950)	307235	400.000	388.58
174	tert-Amyl methyl ether	73	4.669	4.669	(1.118)	318193	20.0000	19.04
175	tert-Butyl ethyl ether	59	3.379	3.379	(0.809)	413607	20.0000	19.24
176	tert-Amyl alcohol	59	4.627	4.627	(1.108)	206505	400.000	372.28(M)
151	4-Methyl-2-pentanol	45	6.712	6.712	(1.352)	666674	400.000	390.27(M)
180	1-Methylnaphthalene	142	12.635	12.635	(1.308)	150919	20.0000	(a)
140	1,3-Butadiene	54	1.167	1.167	(0.280)	123783	20.0000	18.97
152	Amyl alcohol	42	6.907	6.907	(0.901)	79891	400.000	377.87(M)
158	Dichlorofluoromethane	67	1.535	1.535	(0.367)	158942	20.0000	19.42
159	Propylene oxide	43	1.808	1.808	(0.433)	26882	40.0000	43.15
161	3-Methyl-1-butanol	55	6.907	6.907	(0.901)	65296	400.000	360.74
162	Butyl acrylate	55	8.252	8.252	(1.076)	278950	20.0000	19.94
163	Butyl methacrylate	41	9.167	9.167	(0.949)	181860	20.0000	19.36
164	Dicyclopentadiene	66	9.681	9.681	(1.002)	449218	20.0000	19.88
182	Epichlorohydrin	57	6.101	6.101	(1.229)	46921	80.0000	78.80
M 94	1,2-Dichloroethylene (total)	96				189674	40.0000	(a)
145	alpha-Methylstyrene	118	9.257	9.257	(0.958)	161241	20.0000	18.84
130	Ethyl Acetate	43	3.660	3.660	(0.876)	156852	20.0000	20.79
134	Cyclohexanone	55	8.642	8.642	(0.894)	143296	400.000	410.46(a)
185	Isoprene	39	1.771	1.771	(0.424)	34997	20.0000	20.90
188	Isopropyl acetate	43	4.680	4.680	(0.943)	402950	20.0000	19.17

187 n-Amyl acetate	43	8.451	8.451 (1.102)	257831	20.0000	19.13
189 n-Butyl acetate	43	7.214	7.214 (0.941)	233185	20.0000	20.69(H)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
150 Allyl alcohol	57	2.772	2.772	(0.664)	106667	400.000	460.03
194 Acetaldehyde	44	1.212	1.212	(0.290)	39093	80.0000	72.86(M)
195 Methyl Amyl Ketone	43	8.380	8.380	(1.093)	308846	20.0000	20.09(H)
200 Dimethyl Disulfide	94	6.198	6.198	(0.808)	200098	20.0000	20.17
202 Isobutylene	41	1.242	1.242	(0.297)	17453	20.0000	20.78(M)
205 2-Ethylhexyl Acrylate	55	11.547	11.547	(1.195)	205728	20.0000	20.54

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.



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Client ID: VSTD020
Sample Info: VSTD020;VSTD020;1;6;
Purge Volume: 5.0
Column phase: DB624

Instrument: voa6.i
Operator: PC
Column diameter: 0.18

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Inj Date : 14-JUL-2023 14:04
InstruID : voa6.i
LabSampID : VSTD020

1,2,3-Trichloropropane (96-18-4)

Reason Code:

BEFORE

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20-Jul-2023
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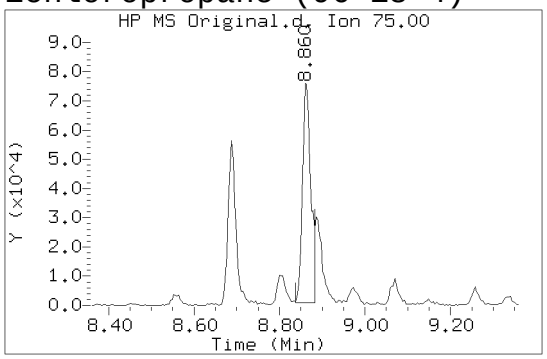

AFTER

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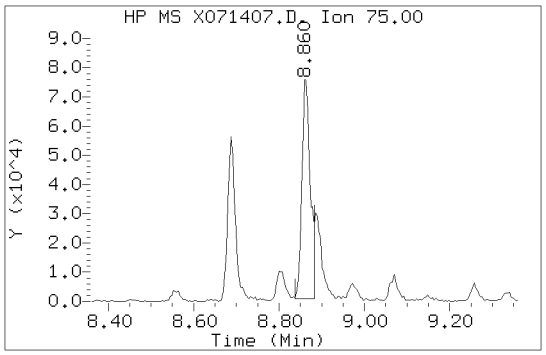

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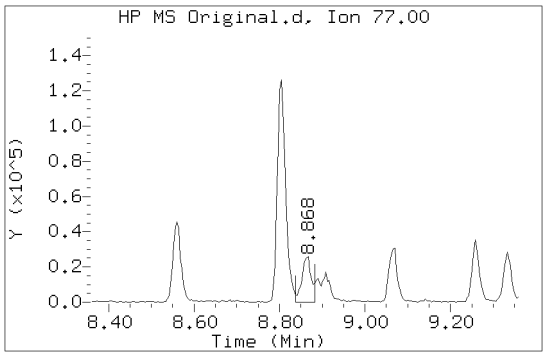

AFTER

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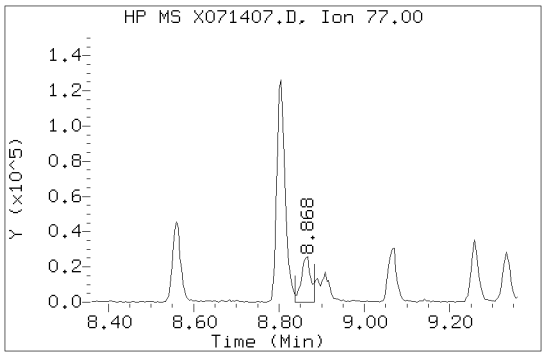

Chloroprene (126-99-8)

Reason Code:

BEFORE

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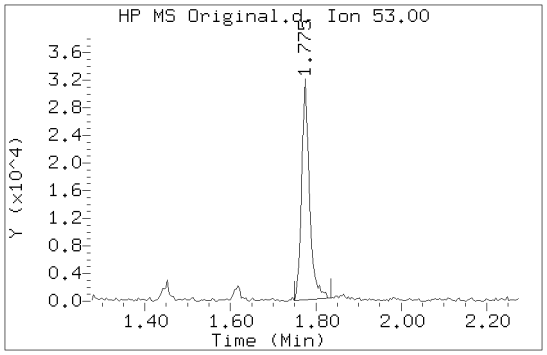

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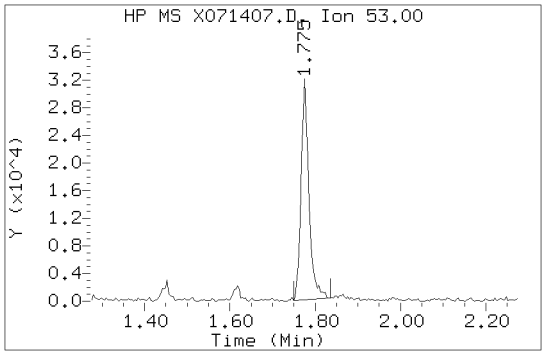

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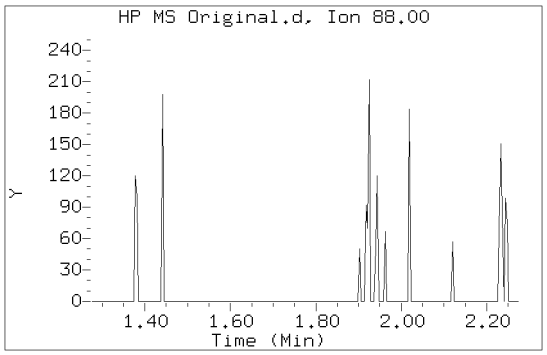

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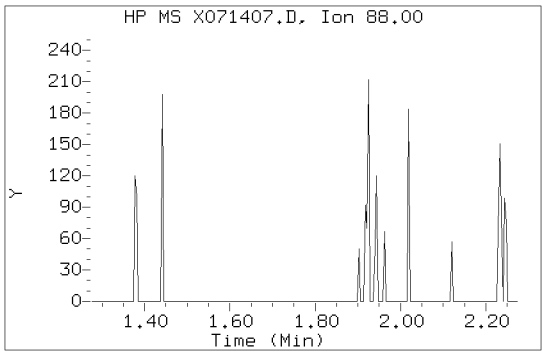

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LabSampID : VSTD020

Freon TF (76-13-1)

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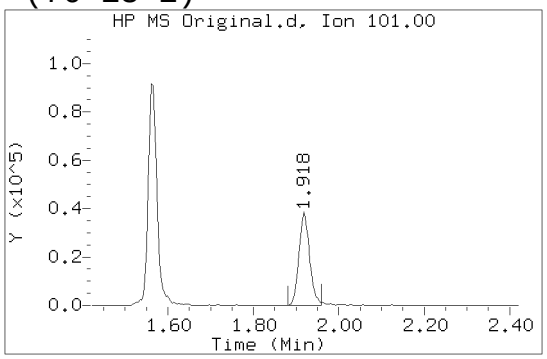

AFTER

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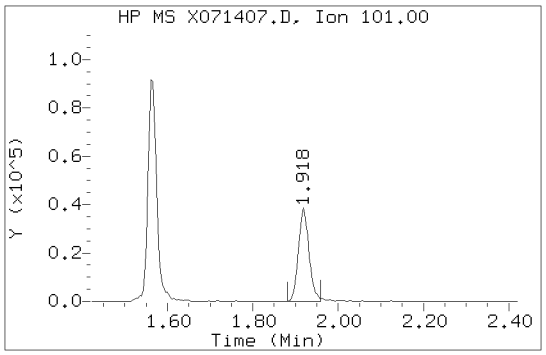

Reason Code:

BEFORE

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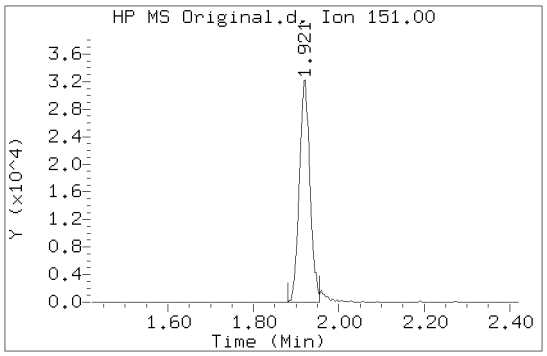

AFTER

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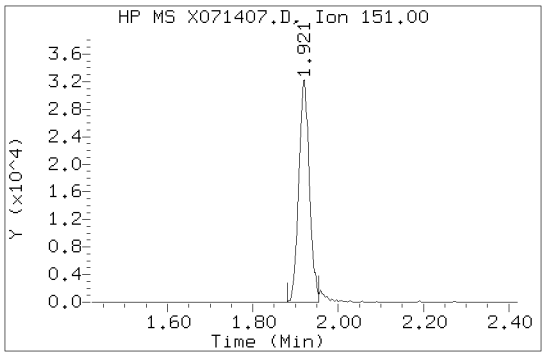

Reason Code:

Methylcyclohexane (108-87-2)

BEFORE

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20-Jul-2023
15:04
linh
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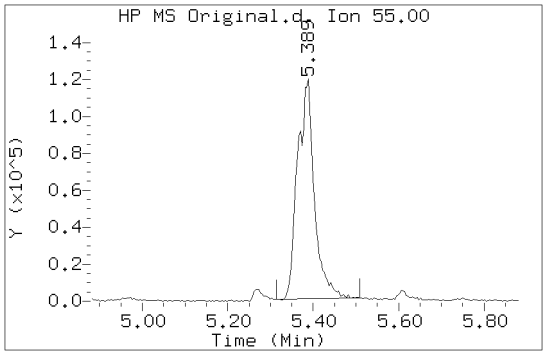

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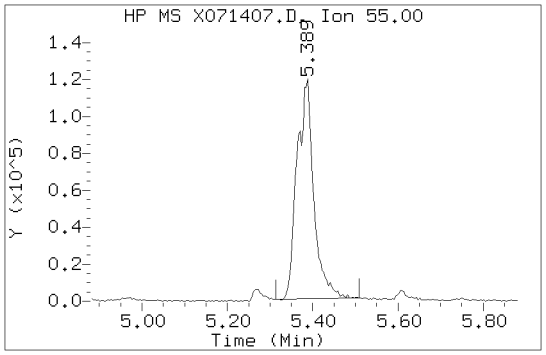

Reason Code:

BEFORE

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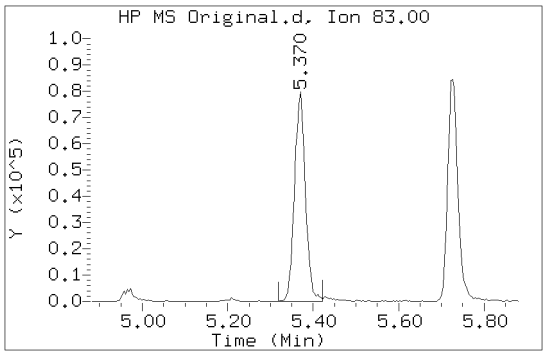

AFTER

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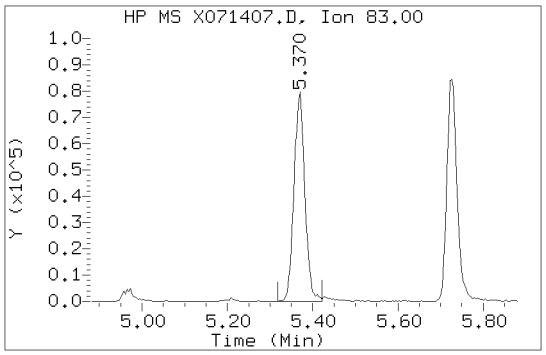

Reason Code:

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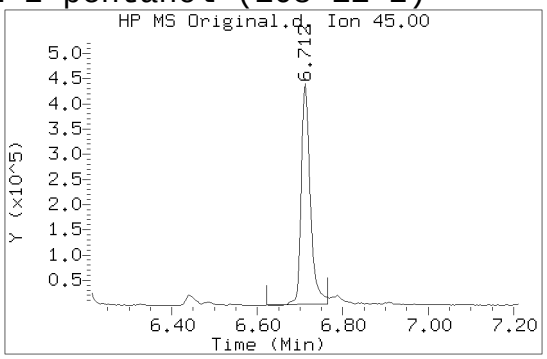
Inj Date : 14-JUL-2023 14:04
InstruID : voa6.i
LabSampID : VSTD020

4-Methyl-2-pentanol (108-11-2)

Reason Code:

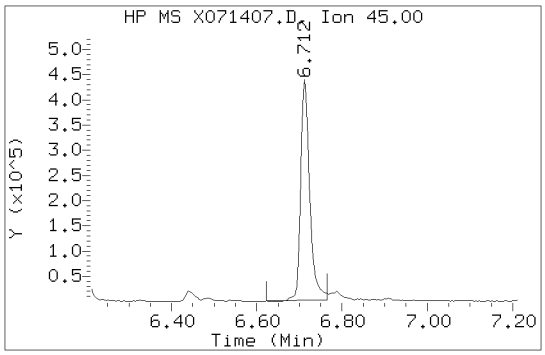
BEFORE

MASS
45
AREA
666674
HEIGHT
437957
20-Jul-2023
15:04
linh
pham



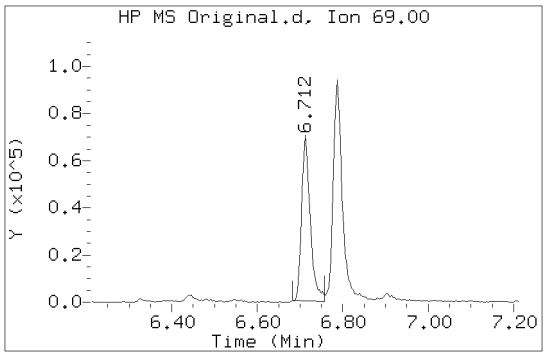
AFTER

MASS
45
AREA
666674
HEIGHT
437957
20-Jul-2023
15:04
linh
pham



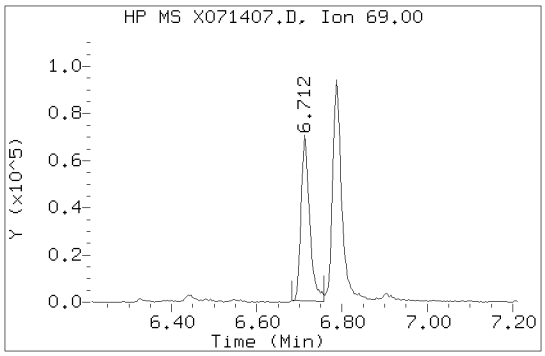
BEFORE

MASS
69
AREA
101772
HEIGHT
70395
20-Jul-2023
15:04
linh
pham



AFTER

MASS
69
AREA
101772
HEIGHT
70395
20-Jul-2023
15:04
linh
pham

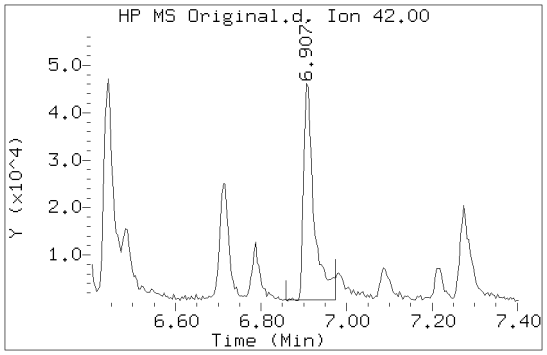


Amyl alcohol (71-41-0)

Reason Code:

BEFORE

MASS
42
AREA
79891
HEIGHT
45629
20-Jul-2023
15:04
linh
pham



AFTER

MASS
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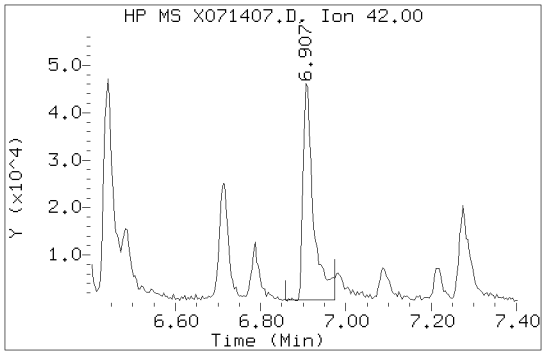
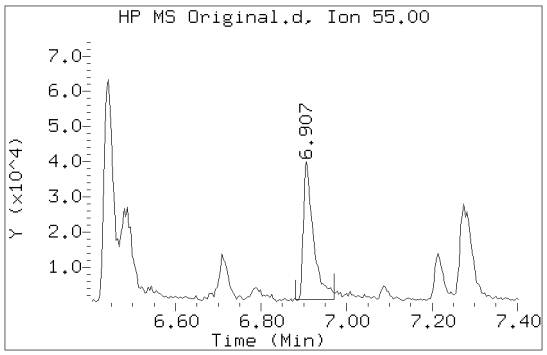
AREA
79891
HEIGHT
45629
20-Jul-2023
15:04
linh
pham



BEFORE

MASS
55
AREA
65296
HEIGHT
39055
20-Jul-2023
15:04
linh
pham



AFTER

MASS
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AREA
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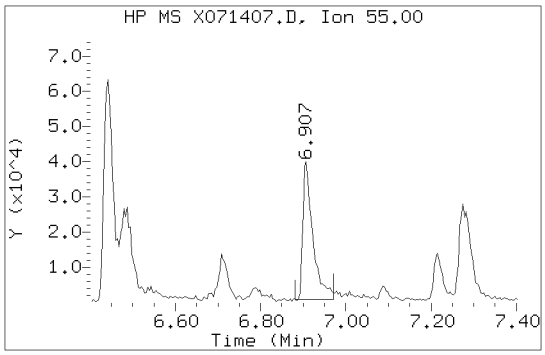
HEIGHT
39055
20-Jul-2023
15:04
linh
pham



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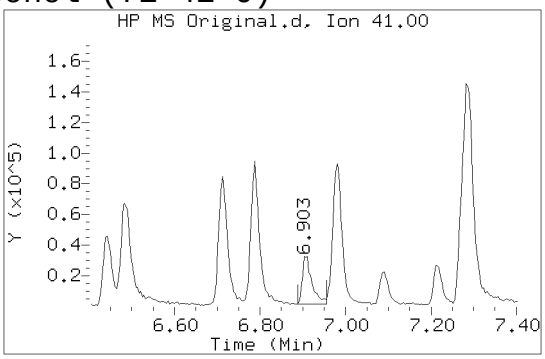
Inj Date : 14-JUL-2023 14:04
InstruID : voa6.i
LabSampID : VSTD020

Amyl alcohol (71-41-0)

Reason Code:

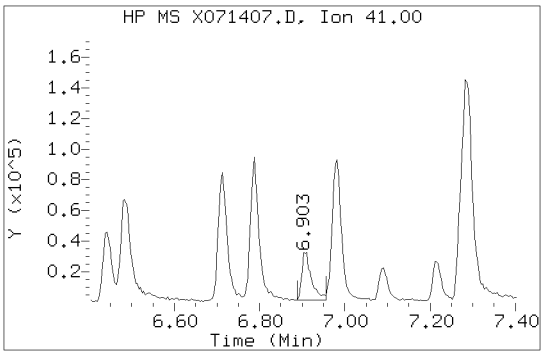
BEFORE

MASS
41
AREA
49579
HEIGHT
30812
20-Jul-2023
15:04
linh
pham



AFTER

MASS
41
AREA
49579
HEIGHT
30812
20-Jul-2023
15:04
linh
pham

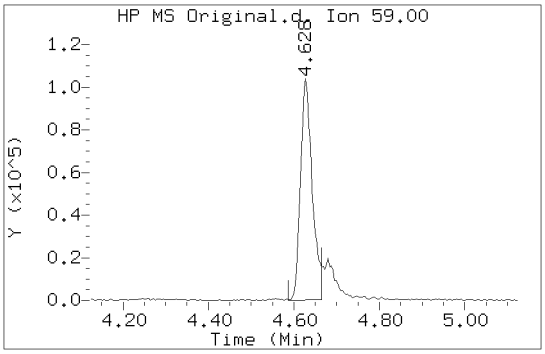


tert-Butyl formate (762-75-4)

Reason Code:

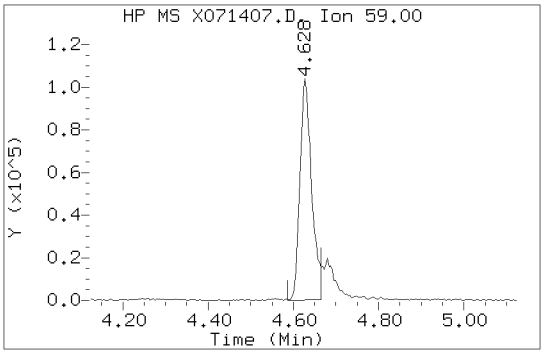
BEFORE

MASS
59
AREA
202938
HEIGHT
103862
20-Jul-2023
15:04
linh
pham



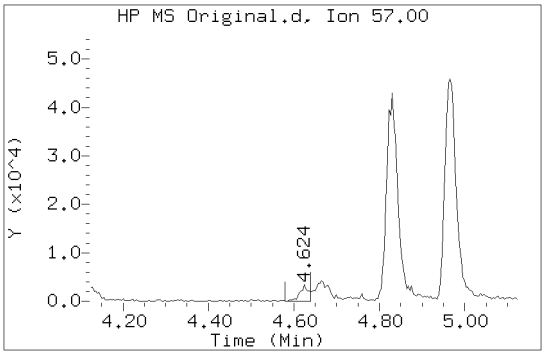
AFTER

MASS
59
AREA
202938
HEIGHT
103862
20-Jul-2023
15:04
linh
pham



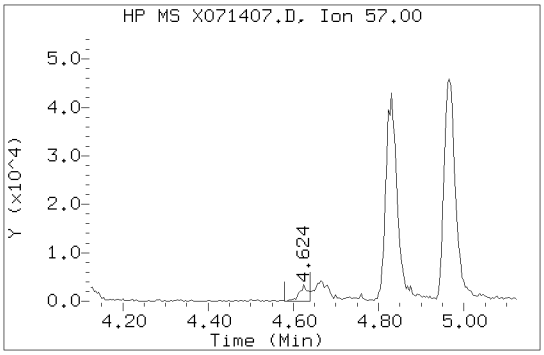
BEFORE

MASS
57
AREA
4882
HEIGHT
3421
20-Jul-2023
15:04
linh
pham



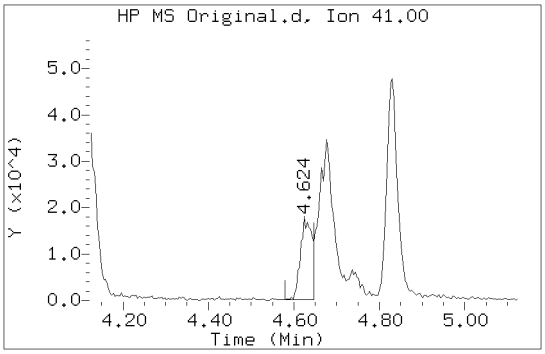
AFTER

MASS
57
AREA
4882
HEIGHT
3421
20-Jul-2023
15:04
linh
pham



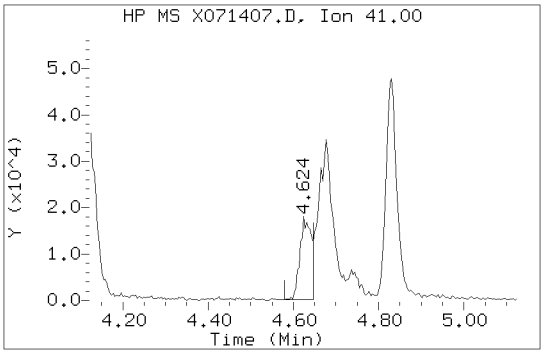
BEFORE

MASS
41
AREA
34265
HEIGHT
18036
20-Jul-2023
15:04
linh
pham



AFTER

MASS
41
AREA
34265
HEIGHT
18036
20-Jul-2023
15:04
linh
pham



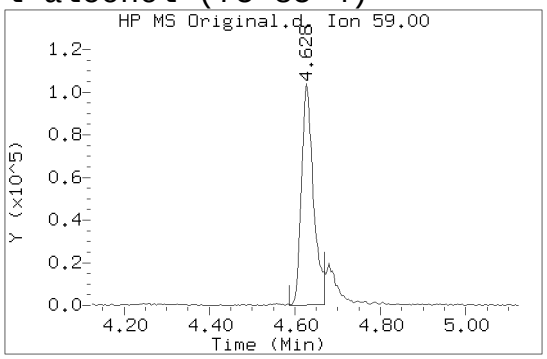
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230714.b\X071407.D
Inj Date : 14-JUL-2023 14:04
InstruID : voa6.i
LabSampID : VSTD020

tert-Amyl alcohol (75-85-4)

Reason Code:

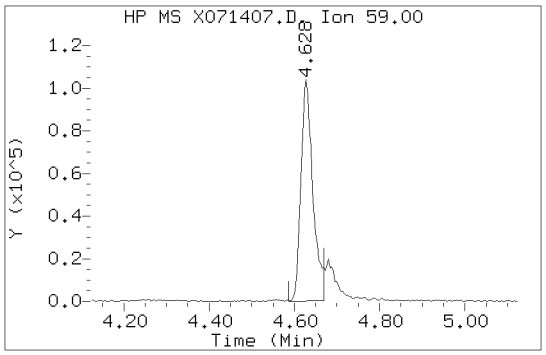
BEFORE

MASS
59
AREA
206505
HEIGHT
103862
20-Jul-2023
15:04
linh
pham



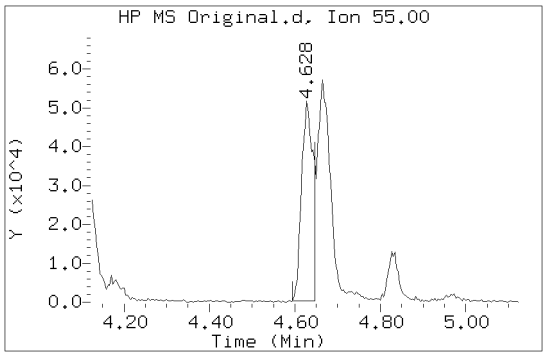
AFTER

MASS
59
AREA
206505
HEIGHT
103862
20-Jul-2023
15:04
linh
pham



BEFORE

MASS
55
AREA
96489
HEIGHT
51399
20-Jul-2023
15:04
linh
pham



AFTER

MASS
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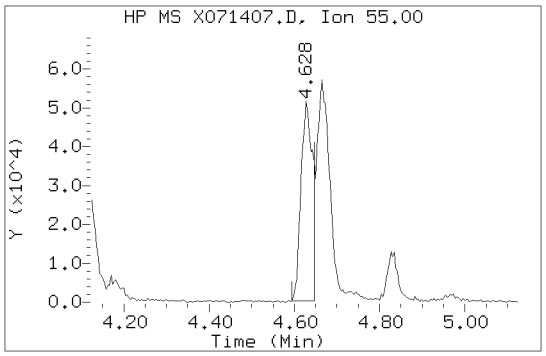
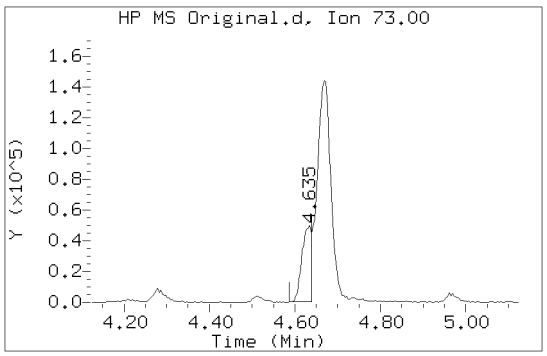
AREA
96489
HEIGHT
51399
20-Jul-2023
15:04
linh
pham



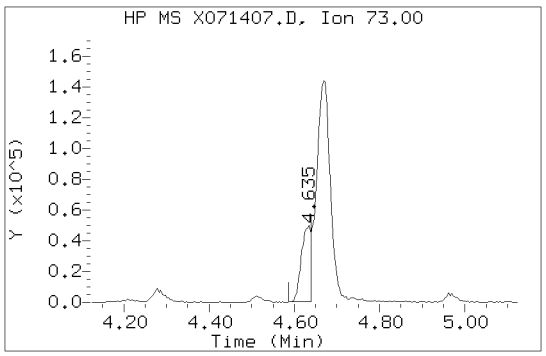
BEFORE

MASS
73
AREA
78871
HEIGHT
49677
20-Jul-2023
15:04
linh
pham



AFTER

MASS
73
AREA
78871
HEIGHT
49677
20-Jul-2023
15:04
linh
pham

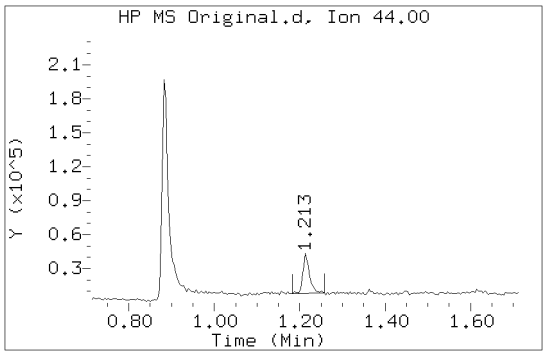


Acetaldehyde (75-07-0)

Reason Code:

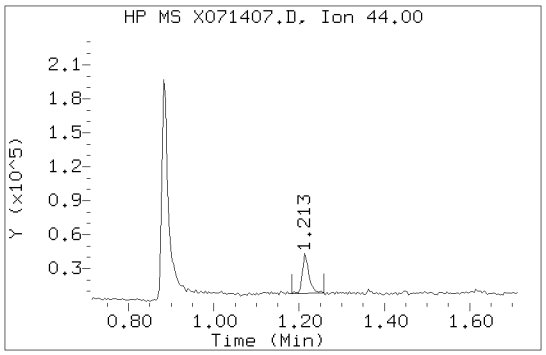
BEFORE

MASS
44
AREA
39093
HEIGHT
35571
20-Jul-2023
15:04
linh
pham



AFTER

MASS
44
AREA
39093
HEIGHT
35571
20-Jul-2023
15:04
linh
pham

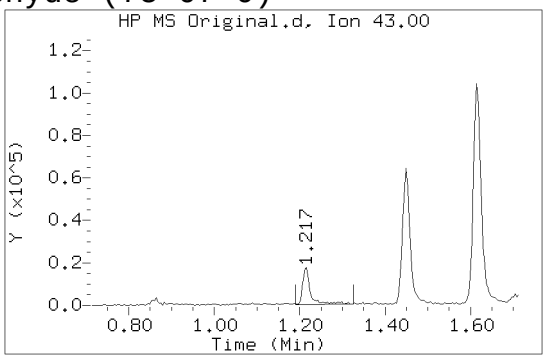


Data File : \\NAHSTWS005\Target\chem\voa6.i\X230714.b\X071407.D
Inj Date : 14-JUL-2023 14:04
InstruID : voa6.i
LabSampID : VSTD020

Acetaldehyde (75-07-0)

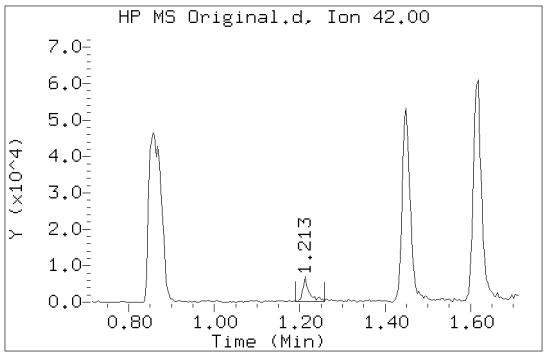
BEFORE

MASS
43
AREA
22978
HEIGHT
17443
20-Jul-2023
15:04
linh
pham



BEFORE

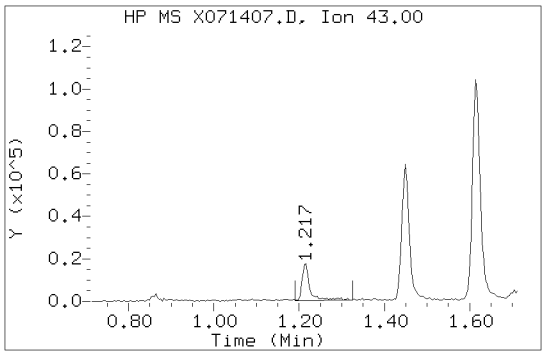
MASS
42
AREA
7214
HEIGHT
6800
20-Jul-2023
15:04
linh
pham



Reason Code:

AFTER

MASS
43
AREA
22978
HEIGHT
17443
20-Jul-2023
15:04
linh
pham



AFTER

MASS
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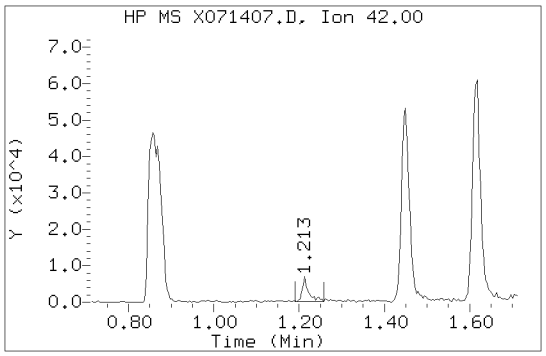
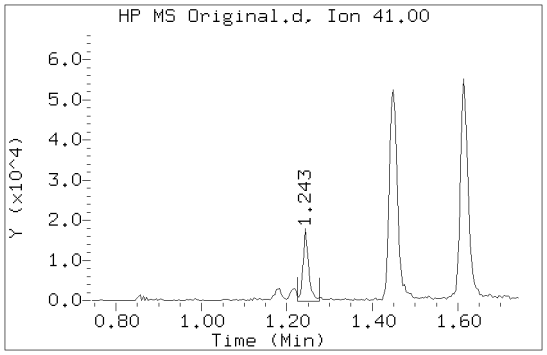
AREA
7214
HEIGHT
6800
20-Jul-2023
15:04
linh
pham



Isobutylene (115-11-7)

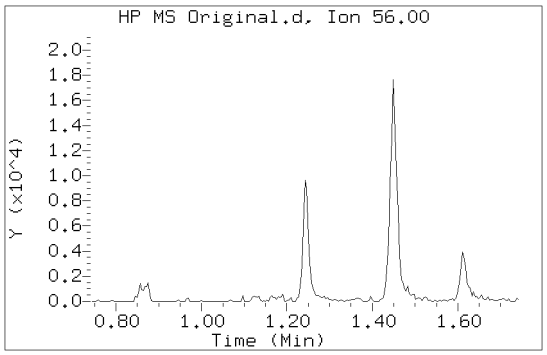
BEFORE

MASS
41
AREA
17453
HEIGHT
18052
20-Jul-2023
15:04
linh
pham



BEFORE

MASS
56
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham



Reason Code:

AFTER

MASS
41
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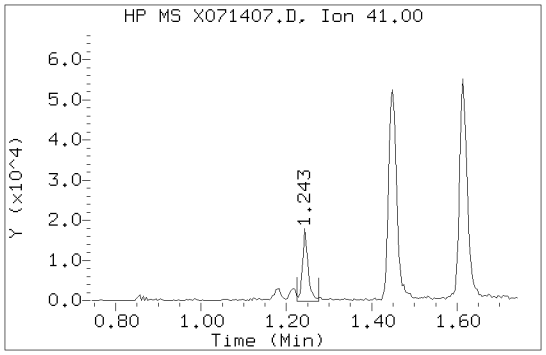
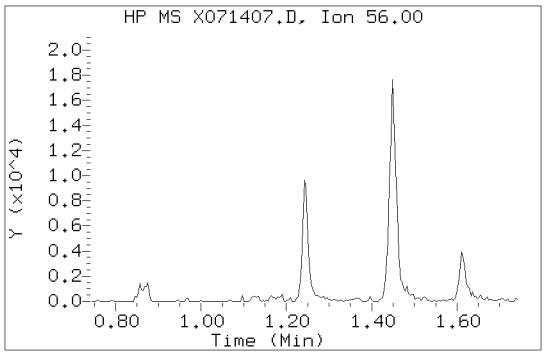
HEIGHT
18052
20-Jul-2023
15:04
linh
pham



AFTER

MASS
56
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham



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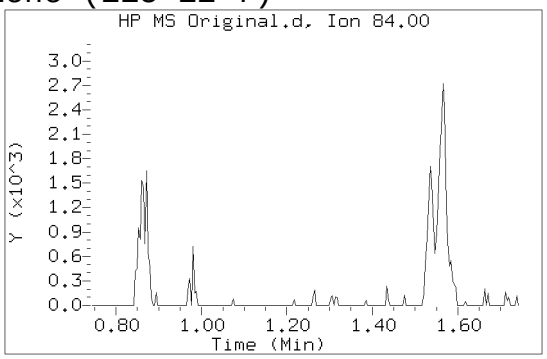
Inj Date : 14-JUL-2023 14:04
InstruID : voa6.i
LabSampID : VSTD020

Isobutylene (115-11-7)

Reason Code:

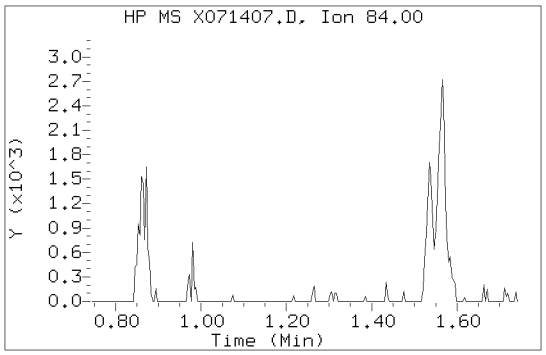
BEFORE

MASS
84
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham



AFTER

MASS
84
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham

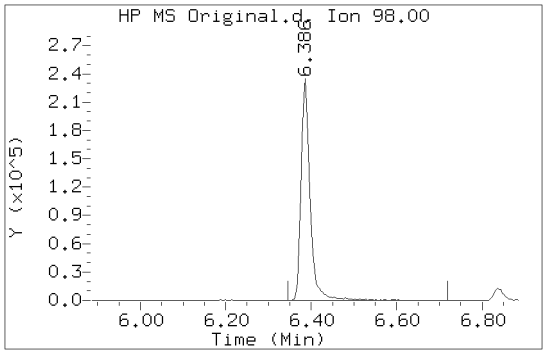


Toluene-d8 (2037-26-5)

Reason Code:

BEFORE

MASS
98
AREA
356461
HEIGHT
234816
20-Jul-2023
15:04
linh
pham



AFTER

MASS
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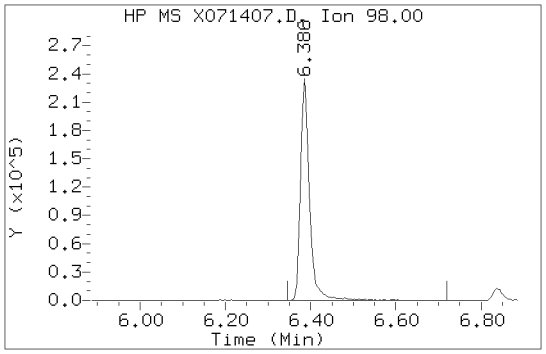
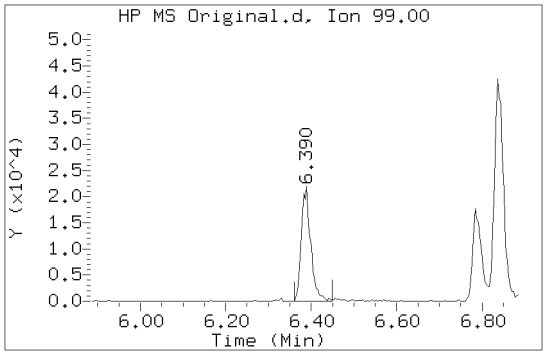
AREA
356461
HEIGHT
234816
20-Jul-2023
15:04
linh
pham



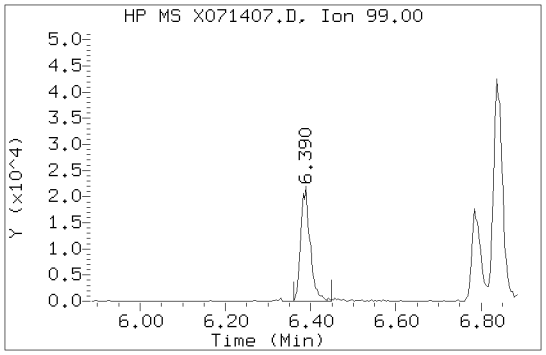
BEFORE

MASS
99
AREA
34374
HEIGHT
22016
20-Jul-2023
15:04
linh
pham



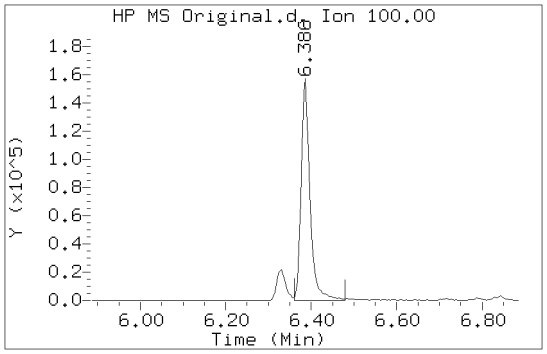
AFTER

MASS
99
AREA
34374
HEIGHT
22016
20-Jul-2023
15:04
linh
pham



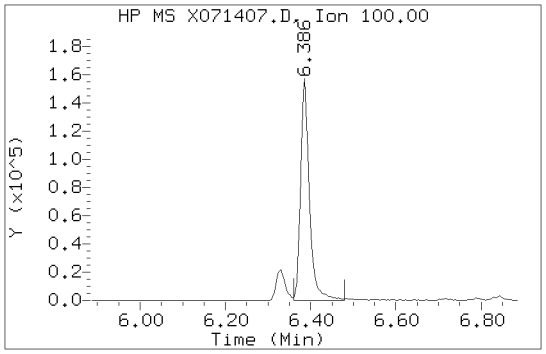
BEFORE

MASS
100
AREA
231914
HEIGHT
157302
20-Jul-2023
15:04
linh
pham



AFTER

MASS
100
AREA
231914
HEIGHT
157302
20-Jul-2023
15:04
linh
pham



ALS Laboratory Group

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Inj Date : 14-JUL-2023 14:24
Operator : PC Inst ID: voa6.i
Smp Info : VSTD050;VSTD050;1;7;
Misc Info : V6;WATER;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\voa6.i\X230714.b\8260W.m
Meth Date : 20-Jul-2023 15:05 voa6.i Quant Type: ISTD
Cal Date : 14-JUL-2023 14:04 Cal File: X071407.D
Als bottle: 9 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1 Pentafluorobenzene	168	4.178	4.178	(1.000)	523013	50.0000	
2 Dichlorodifluoromethane	85	0.976	0.976	(0.234)	235300	50.0000	44.11
3 Chloromethane	50	1.081	1.081	(0.259)	354356	50.0000	44.85
4 Propionitrile	54	3.656	3.656	(0.875)	492839	500.000	475.69
5 Vinyl Chloride	62	1.145	1.145	(0.274)	318113	50.0000	47.00
6 Bromomethane	94	1.344	1.344	(0.322)	131891	50.0000	47.09
7 Chloroethane	64	1.407	1.407	(0.337)	180308	50.0000	46.66
8 Trichlorofluoromethane	101	1.561	1.561	(0.374)	315333	50.0000	45.97
9 Acrolein	56	1.861	1.861	(0.446)	19251	100.000	97.23(H)
10 Acetone	43	1.973	1.973	(0.472)	210033	100.000	101.57
11 1,1-Dichloroethene	96	1.913	1.913	(0.458)	183746	50.0000	47.95
12 Isobutyl Alcohol	43	4.680	4.680	(1.120)	992232	1000.00	1000.83
13 Acetonitrile	39	2.198	2.198	(0.526)	357196	500.000	487.03
14 Allyl Chloride	41	2.198	2.198	(0.526)	798138	50.0000	46.48
15 Iodomethane	142	2.030	2.030	(0.486)	473625	100.000	94.10
16 Acrylonitrile	53	2.532	2.532	(0.606)	235726	100.000	92.49
17 Methylene Chloride	84	2.307	2.307	(0.552)	228969	50.0000	50.65
18 Methyl tert-butyl ether	73	2.539	2.539	(0.608)	669525	50.0000	46.98
19 Carbon Disulfide	76	2.071	2.071	(0.496)	1141643	100.000	94.78
20 trans-1,2-Dichloroethene	96	2.528	2.528	(0.605)	211279	50.0000	47.66

21 Vinyl Acetate	43	2.997	2.997 (0.717)	1752870	100.000	95.62
22 1,1-Dichloroethane	63	2.922	2.922 (0.699)	470383	50.0000	48.36

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	23 Chloroprene	53	1.775	1.775	(0.425)	101850	50.0000	43.31(M)
	24 2-Butanone	43	3.582	3.582	(0.857)	268410	100.000	96.36
	25 Methacrylonitrile	41	3.821	3.821	(0.915)	328284	50.0000	48.62(a)
	26 2,2-Dichloropropane	77	3.507	3.507	(0.839)	357279	50.0000	47.33
	27 cis-1,2-Dichloroethene	96	3.525	3.525	(0.844)	274899	50.0000	48.68
	28 Chloroform	83	3.904	3.904	(0.935)	470821	50.0000	47.31
	29 Bromochloromethane	128	3.791	3.791	(0.908)	149658	50.0000	47.29
$	30 Dibromofluoromethane	113	4.099	4.099	(0.981)	227290	50.0000	47.37
	31 1,1,1-Trichloroethane	97	4.084	4.084	(0.978)	366818	50.0000	47.88
	32 1,1-Dichloropropene	75	4.279	4.279	(0.862)	311339	50.0000	45.93
	33 1,2-Dichloroethane	62	4.556	4.556	(0.918)	432993	50.0000	47.34
	34 Carbon Tetrachloride	117	4.268	4.268	(0.860)	295641	50.0000	43.30
$	35 1,2-Dichloroethane-d4	65	4.470	4.470	(1.070)	282994	50.0000	47.17
*	36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	830857	50.0000	
	37 Benzene	78	4.511	4.511	(0.909)	951794	50.0000	47.89
	38 Trichloroethene	130	5.205	5.205	(1.048)	268578	50.0000	47.77
	39 Bromodichloromethane	83	5.722	5.722	(1.153)	359212	50.0000	47.18
	40 Methyl Methacrylate	41	5.606	5.606	(1.342)	290569	50.0000	46.03
	41 2-Chloroethylvinyl ether	63	6.048	6.048	(1.218)	231938	100.000	99.79
	42 1,2-Dichloropropane	63	5.433	5.433	(1.094)	313347	50.0000	49.03
	43 2-Nitropropane	43	5.969	5.969	(1.429)	96529	50.0000	46.45
	44 Dibromomethane	93	5.550	5.550	(1.118)	168989	50.0000	46.71
	45 4-Methyl-2-Pentanone	43	6.326	6.326	(0.825)	688236	100.000	93.62
	46 cis-1,3-Dichloropropene	75	6.153	6.153	(1.239)	425194	50.0000	48.63
*	47 Chlorobenzene-d5	117	7.668	7.668	(1.000)	747052	50.0000	
$	48 Toluene-d8	98	6.385	6.385	(0.833)	806003	50.0000	41.90(M)
	49 Ethyl Methacrylate	69	6.712	6.712	(1.352)	223750	50.0000	41.11
	50 Toluene	91	6.445	6.445	(0.841)	1011174	50.0000	50.28
	51 trans-1,3-Dichloropropene	75	6.678	6.678	(1.345)	351933	50.0000	47.75
	52 2-Hexanone	43	7.086	7.086	(0.924)	449229	100.000	93.02
	53 1,1,2-Trichloroethane	83	6.835	6.835	(0.891)	205411	50.0000	48.15
	54 1,3-Dichloropropane	76	6.978	6.978	(0.910)	420354	50.0000	48.23
	55 Dibromochloromethane	129	7.173	7.173	(0.935)	303363	50.0000	49.25
	56 Tetrachloroethene	164	6.925	6.925	(0.903)	200679	50.0000	48.30
	57 1,2-Dibromoethane	107	7.259	7.259	(0.947)	231339	50.0000	47.45
	58 1-Chlorohexane	55	7.694	7.694	(1.550)	276645	50.0000	41.44
	59 Chlorobenzene	112	7.690	7.690	(1.003)	673755	50.0000	47.92
	60 1,1,1,2-Tetrachloroethane	131	7.772	7.772	(1.014)	270349	50.0000	49.12
	61 Ethylbenzene	106	7.795	7.795	(1.017)	339019	50.0000	48.09
	62 m,p-Xylenes	106	7.900	7.900	(1.030)	871877	100.000	98.59
	63 o-Xylene	106	8.237	8.237	(1.074)	410767	50.0000	49.05
	64 Styrene	104	8.256	8.256	(1.077)	730009	50.0000	49.97
	66 Bromoform	173	8.406	8.406	(1.096)	197185	50.0000	49.90
	67 Isopropylbenzene	105	8.560	8.560	(1.116)	1023144	50.0000	47.53
	68 1,1,2,2-Tetrachloroethane	83	8.837	8.837	(0.915)	323110	50.0000	46.71
$	69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	355682	50.0000	47.79
*	70 1,4-Dichlorobenzene-d4	152	9.658	9.658	(1.000)	411751	50.0000	
	71 1,2,3-Trichloropropane	75	8.860	8.860	(0.917)	256294	50.0000	46.70(M)
	72 trans-1,4-Dichloro-2-butene	53	8.886	8.886	(1.159)	113164	50.0000	49.80
	73 n-Propylbenzene	91	8.908	8.908	(0.922)	1199683	50.0000	48.21
	74 Bromobenzene	156	8.803	8.803	(0.912)	304391	50.0000	47.26
	75 1,3,5-Trimethylbenzene	105	9.062	9.062	(0.938)	873751	50.0000	46.87

76	2-Chlorotoluene	91	8.972	8.972 (0.929)	787863	50.0000	46.93
77	4-Chlorotoluene	91	9.066	9.066 (0.939)	904673	50.0000	49.04

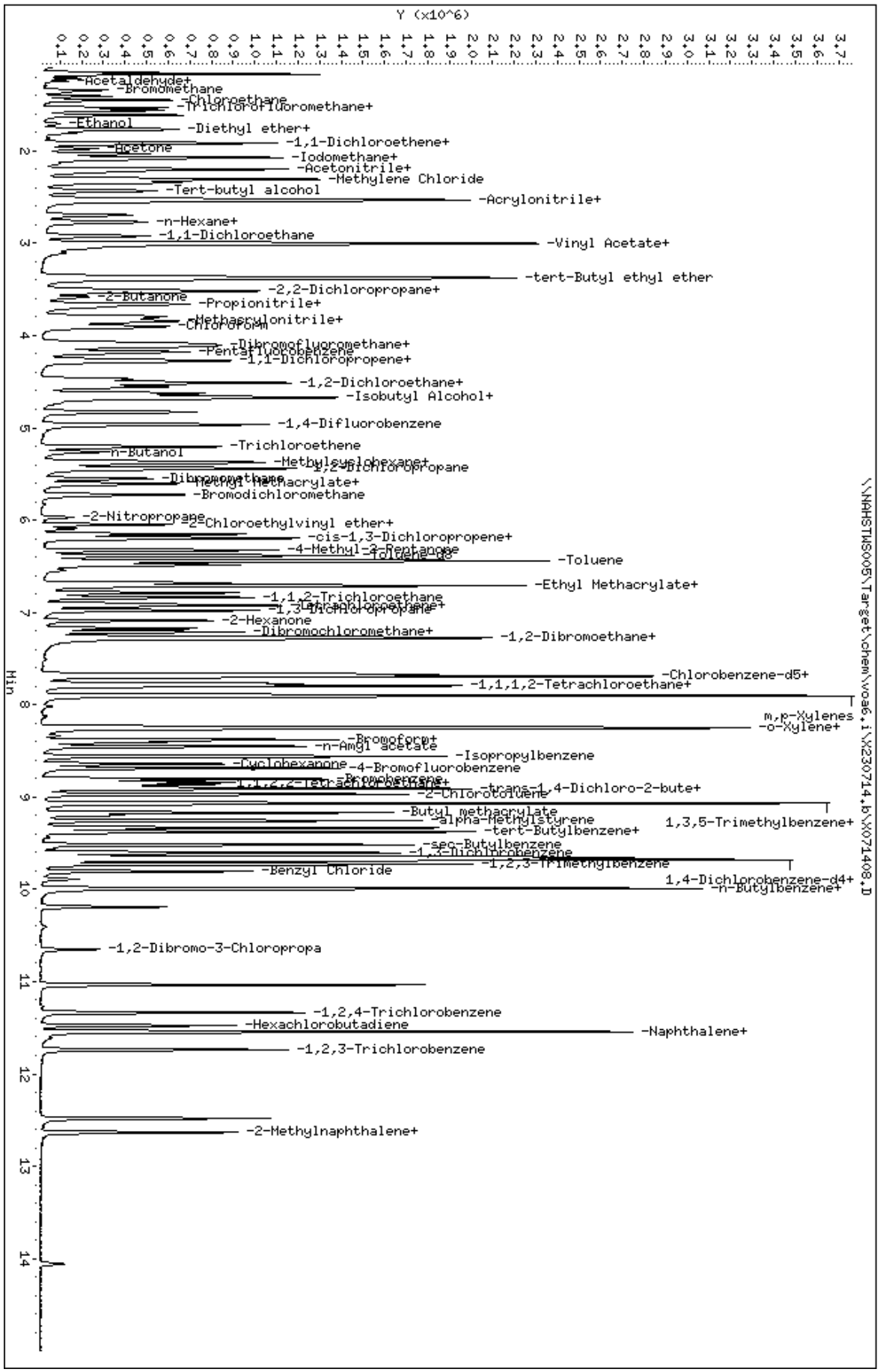
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)	
78	tert-Butylbenzene	119	9.336	9.336	(0.967)	722967	50.0000	45.22	
79	1,2,4-Trimethylbenzene	105	9.377	9.377	(0.971)	872776	50.0000	46.69	
81	sec-Butylbenzene	105	9.519	9.519	(0.986)	982642	50.0000	46.11	
82	p-Isopropyltoluene	119	9.647	9.647	(0.999)	896333	50.0000	46.05	
83	1,3-Dichlorobenzene	146	9.602	9.602	(0.994)	530593	50.0000	47.29	
84	1,4-Dichlorobenzene	146	9.681	9.681	(1.002)	570511	50.0000	46.38	
86	Benzyl Chloride	91	9.804	9.804	(1.279)	558112	50.0000	44.19	
87	n-Butylbenzene	91	9.992	9.992	(1.035)	755707	50.0000	46.35	
88	1,2-Dichlorobenzene	146	9.988	9.988	(1.034)	524864	50.0000	47.58	
89	1,2-Dibromo-3-Chloropropane	155	10.651	10.651	(1.103)	51434	50.0000	45.34	
90	1,2,4-Trichlorobenzene	180	11.334	11.334	(1.173)	331560	50.0000	43.77	
91	Hexachlorobutadiene	225	11.476	11.476	(1.188)	139894	50.0000	40.54	
92	Naphthalene	128	11.540	11.540	(1.195)	833003	50.0000	44.42	
93	1,2,3-Trichlorobenzene	180	11.739	11.739	(1.215)	307966	50.0000	43.47	
146	Methyl acetate	43	2.232	2.232	(0.534)	220729	50.0000	47.42	
138	Freon TF	101	1.917	1.917	(0.459)	154547	50.0000	48.17	
141	Cyclohexane	56	4.125	4.125	(0.987)	384719	50.0000	42.43	
142	Tetrahydrofuran	42	3.851	3.851	(0.922)	127806	100.000	94.98	
147	Methylcyclohexane	55	5.381	5.381	(1.084)	820341	50.0000	46.77	
135	1,4-Dioxane	88	5.602	5.602	(1.341)	56497	1000.00	909.04	
132	n-Butanol	56	5.261	5.261	(1.259)	163155	1000.00	937.09	
131	Methyl Acrylate	55	3.690	3.690	(0.883)	324862	50.0000	45.69	
133	Ethyl Acrylate	55	5.381	5.381	(1.288)	820341	50.0000	47.32	
136	n-Hexane	57	2.772	2.772	(0.664)	244351	50.0000	48.23	
139	Diethyl ether	59	1.760	1.760	(0.421)	229645	50.0000	47.08	
148	Tert-butyl alcohol	59	2.434	2.434	(0.583)	589524	1000.00	893.06	
149	Isopropyl alcohol	45	2.093	2.093	(0.501)	369866	1000.00	902.98	
156	Diisopropyl ether	45	3.004	3.004	(0.719)	1023782	50.0000	47.49	
166	1,2,3-Trimethylbenzene	105	9.729	9.729	(1.007)	931868	50.0000	48.95	
167	Ethanol	45	1.703	1.703	(0.408)	72445	1000.00	990.30	
172	tert-Butyl formate	59	4.627	4.627	(1.108)	483988	100.000	86.62	
173	3,3-Dimethyl-1-butanol	57	7.285	7.285	(0.950)	654787	1000.00	815.00	
174	tert-Amyl methyl ether	73	4.669	4.669	(1.118)	841588	50.0000	48.91	
175	tert-Butyl ethyl ether	59	3.379	3.379	(0.809)	1034229	50.0000	46.70	
176	tert-Amyl alcohol	59	4.627	4.627	(1.108)	483988	1000.00	847.08	
151	4-Methyl-2-pentanol	45	6.712	6.712	(1.352)	1443508	1000.00	810.70	
180	1-Methylnaphthalene	142	12.634	12.634	(1.308)	377609	50.0000	(a)	
140	1,3-Butadiene	54	1.167	1.167	(0.280)	306107	50.0000	45.54	
152	Amyl alcohol	42	6.903	6.903	(0.900)	190741	1000.00	887.85	
158	Dichlorofluoromethane	67	1.535	1.535	(0.367)	398292	50.0000	47.26	
159	Propylene oxide	43	1.805	1.805	(0.432)	59535	100.000	92.78	
161	3-Methyl-1-butanol	55	6.903	6.903	(0.900)	178568	1000.00	970.88	
162	Butyl acrylate	55	8.249	8.249	(1.076)	713652	50.0000	50.21	
163	Butyl methacrylate	41	9.167	9.167	(0.949)	474324	50.0000	48.09	
164	Dicyclopentadiene	66	9.681	9.681	(1.002)	1133352	50.0000	47.78	
182	Epichlorohydrin	57	6.093	6.093	(1.227)	118291	200.000	190.60	
M 94	1,2-Dichloroethylene (total)	96				486178	100.000	(a)	
145	alpha-Methylstyrene	118	9.257	9.257	(0.958)	421857	50.0000	46.96	
130	Ethyl Acetate	43	3.660	3.660	(0.876)	368212	50.0000	47.39	
134	Cyclohexanone	55	8.642	8.642	(0.895)	325236	1000.00	887.25	
185	Isoprene	39	1.775	1.775	(0.425)	78291	50.0000	45.41	
188	Isopropyl acetate	43	4.680	4.680	(0.943)	992232	50.0000	45.29	

187 n-Amyl acetate	43	8.451	8.451 (1.102)	605401	50.0000	44.21
189 n-Butyl acetate	43	7.210	7.210 (0.940)	548658	50.0000	47.91(H)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
150 Allyl alcohol	57	2.772	2.772	(0.664)	244351	1000.00	964.89
194 Acetaldehyde	44	1.212	1.212	(0.290)	101552	200.000	218.25(M)
195 Methyl Amyl Ketone	43	8.380	8.380	(1.093)	719543	50.0000	46.08
200 Dimethyl Disulfide	94	6.194	6.194	(0.808)	522090	50.0000	51.81
202 Isobutylene	41	1.242	1.242	(0.297)	36655	50.0000	42.38(M)
205 2-Ethylhexyl Acrylate	55	11.547	11.547	(1.196)	561357	50.0000	53.37

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.



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Client ID: VSTD050
Sample Info: VSTD050;VSTD050;1;7;
Purge Volume: 5.0
Column phase: DB624

Instrument: voa6.i
Operator: PC
Column diameter: 0.18

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Inj Date : 14-JUL-2023 14:24
InstruID : voa6.i
LabSampID : VSTD050

1,2,3-Trichloropropane (96-18-4)

Reason Code:

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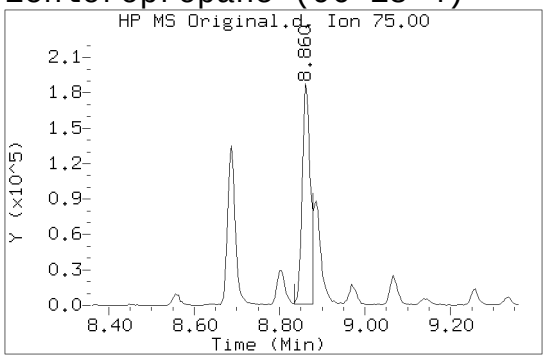
256294
HEIGHT
186871
20-Jul-2023
15:04
linh
pham



AFTER

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20-Jul-2023
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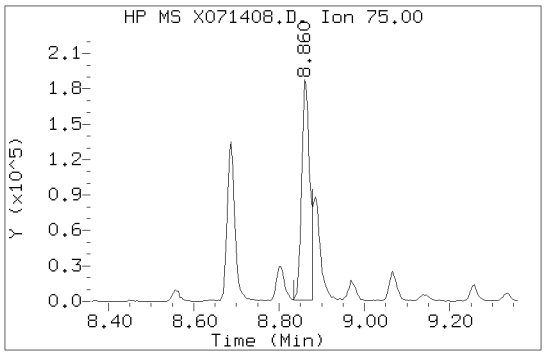

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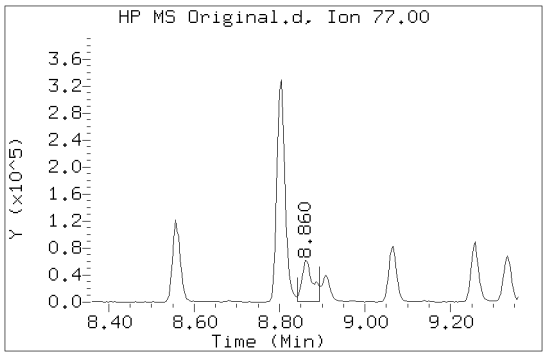

AFTER

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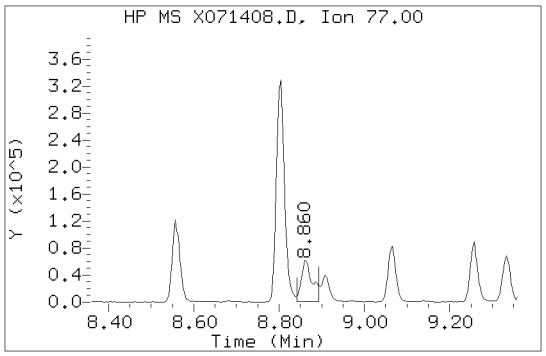

Chloroprene (126-99-8)

Reason Code:

BEFORE

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20-Jul-2023
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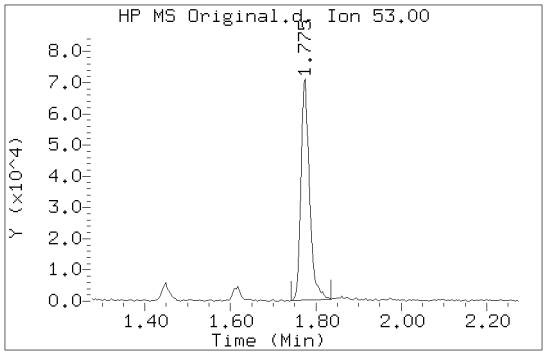
linh
pham



AFTER

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20-Jul-2023
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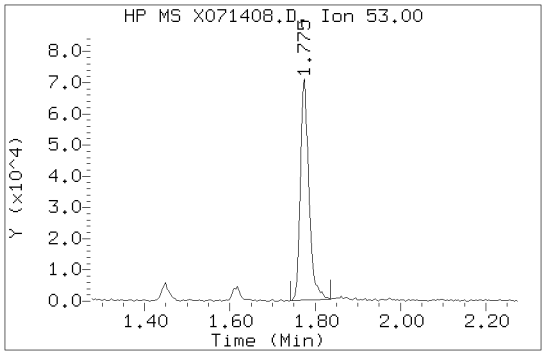

BEFORE

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20-Jul-2023
15:04
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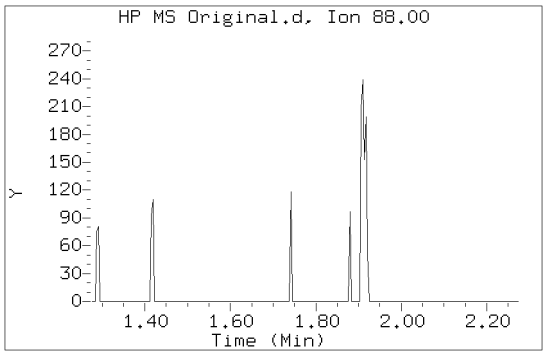
pham



AFTER

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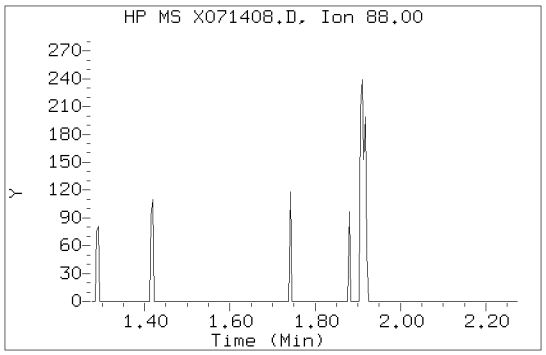

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Inj Date : 14-JUL-2023 14:24
InstruID : voa6.i
LabSampID : VSTD050

Acetaldehyde (75-07-0)

Reason Code:

BEFORE

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AREA
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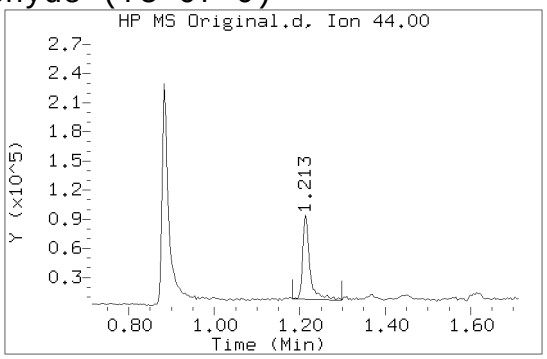
HEIGHT
86521
20-Jul-2023
15:04
linh
pham



AFTER

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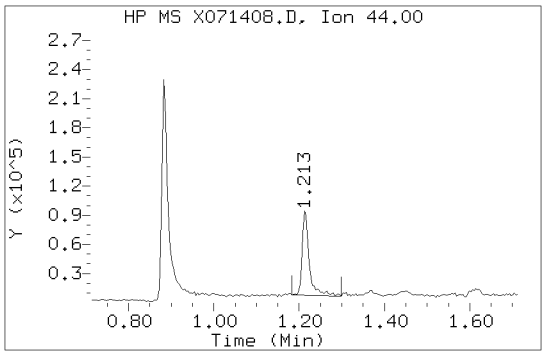

BEFORE

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20-Jul-2023
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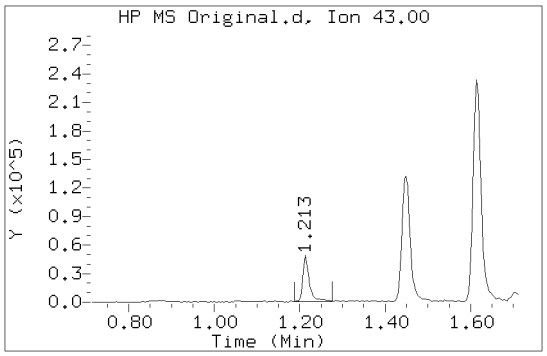
linh
pham



AFTER

MASS
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20-Jul-2023
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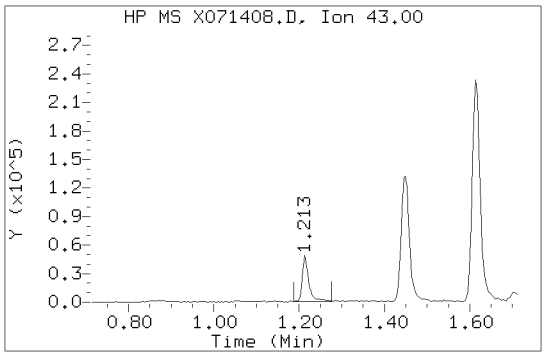

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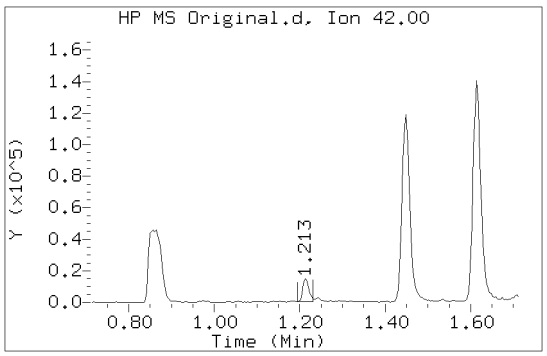

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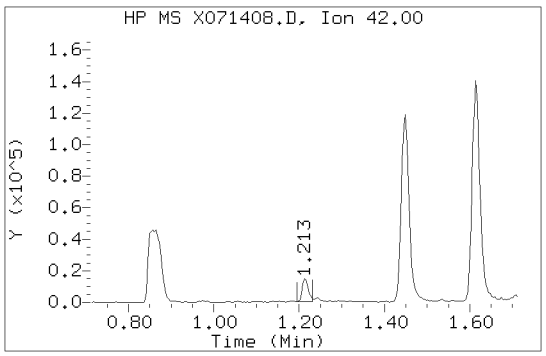

Isobutylene (115-11-7)

Reason Code:

BEFORE

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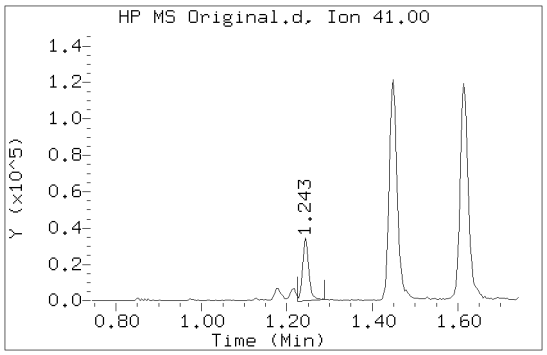

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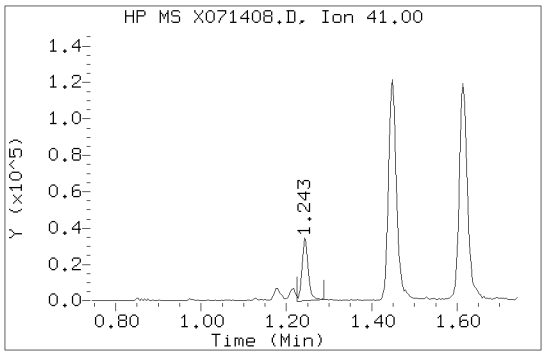

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LabSampID : VSTD050

Isobutylene (115-11-7)

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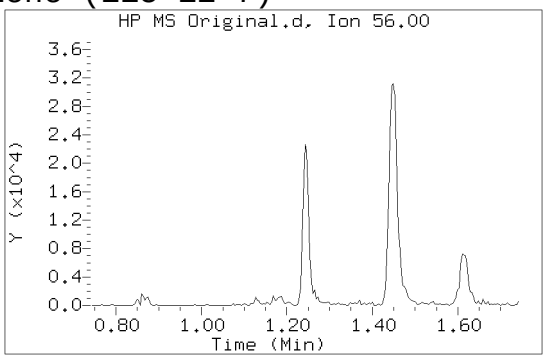

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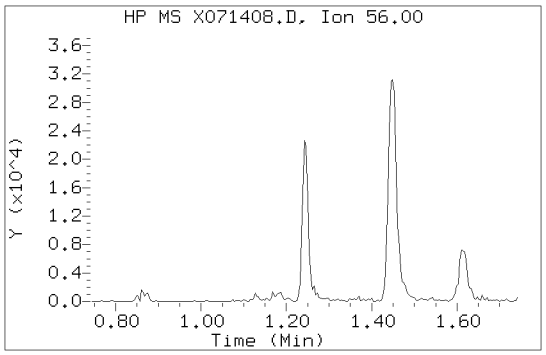

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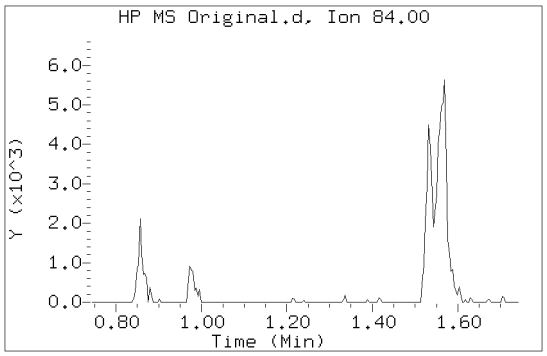

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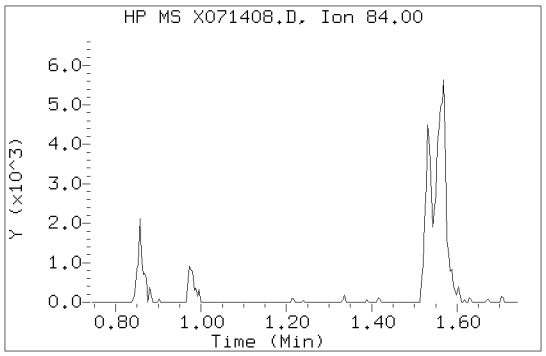

Toluene-d8 (2037-26-5)

Reason Code:

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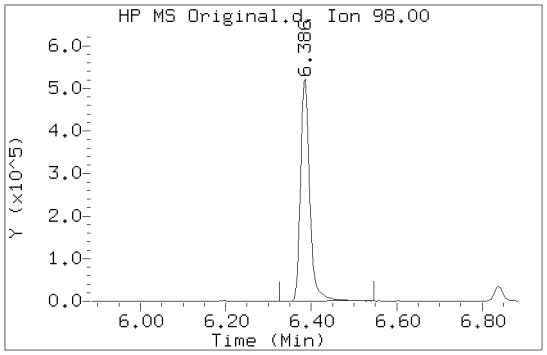

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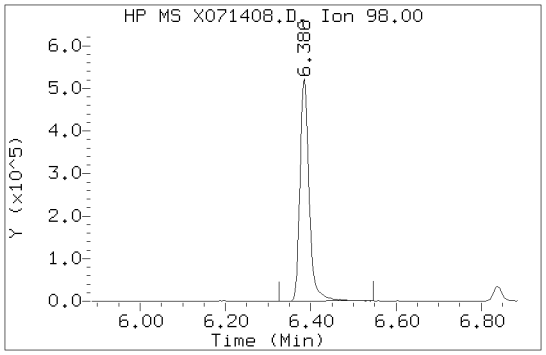

BEFORE

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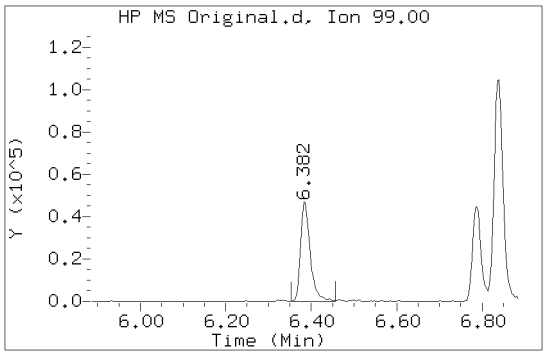

AFTER

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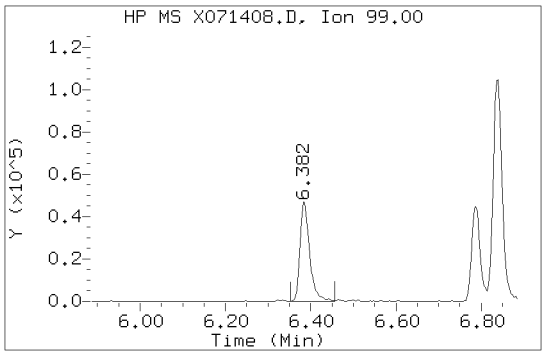

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LabSampID : VSTD050

Toluene-d8 (2037-26-5)

Reason Code:

BEFORE

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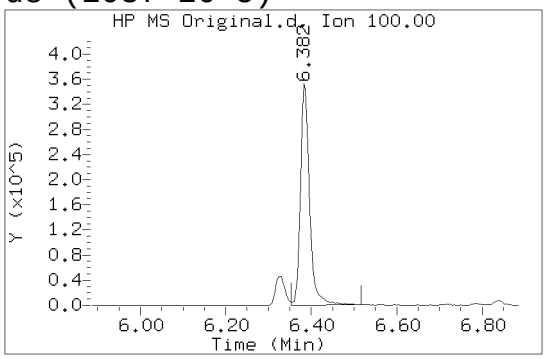

AFTER

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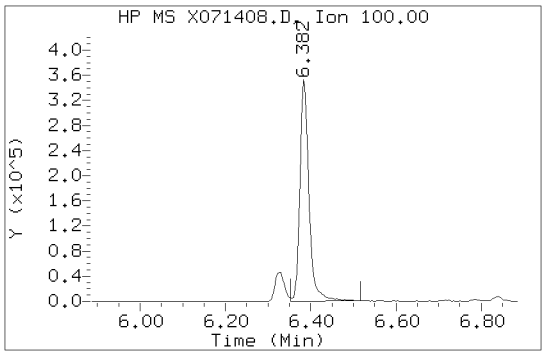

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230714.b\X071409.D Page 1
Report Date: 20-Jul-2023 15:05

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230714.b\X071409.D
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Inj Date : 14-JUL-2023 14:44
Operator : PC Inst ID: voa6.i
Smp Info : VSTD100;VSTD100;1;8;
Misc Info : V6;WATER;0;1;
Comment   :
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Meth Date : 20-Jul-2023 15:05 voa6.i Quant Type: ISTD
Cal Date : 14-JUL-2023 14:24 Cal File: X071408.D
Als bottle: 10 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1 Pentafluorobenzene	168	4.178	4.178	(1.000)	523083	50.0000	
2 Dichlorodifluoromethane	85	0.976	0.976	(0.234)	576963	100.000	106.55
3 Chloromethane	50	1.081	1.081	(0.259)	835087	100.000	105.69
4 Propionitrile	54	3.657	3.657	(0.875)	1047975	1000.00	1011.37
5 Vinyl Chloride	62	1.145	1.145	(0.274)	734431	100.000	108.50
6 Bromomethane	94	1.340	1.340	(0.321)	298512	100.000	106.56
7 Chloroethane	64	1.404	1.404	(0.336)	388839	100.000	100.62
8 Trichlorofluoromethane	101	1.561	1.561	(0.374)	784790	100.000	114.40
9 Acrolein	56	1.861	1.861	(0.446)	38657	200.000	194.08(H)
10 Acetone	43	1.973	1.973	(0.472)	413238	200.000	204.54
11 1,1-Dichloroethene	96	1.917	1.917	(0.459)	418161	100.000	109.11
12 Isobutyl Alcohol	43	4.676	4.676	(1.119)	2105793	2000.00	2123.76
13 Acetonitrile	39	2.198	2.198	(0.526)	728143	1000.00	992.69
14 Allyl Chloride	41	2.198	2.198	(0.526)	1634102	100.000	95.15
15 Iodomethane	142	2.030	2.030	(0.486)	1101288	200.000	206.62
16 Acrylonitrile	53	2.532	2.532	(0.606)	485413	200.000	190.43
17 Methylene Chloride	84	2.303	2.303	(0.551)	461890	100.000	103.61
18 Methyl tert-butyl ether	73	2.539	2.539	(0.608)	1386267	100.000	97.26
19 Carbon Disulfide	76	2.071	2.071	(0.496)	2567979	200.000	213.18
20 trans-1,2-Dichloroethene	96	2.528	2.528	(0.605)	450376	100.000	101.60

21 Vinyl Acetate	43	3.001	3.001 (0.718)	3697154	200.000	201.67
22 1,1-Dichloroethane	63	2.918	2.918 (0.699)	974667	100.000	100.19

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	23 Chloroprene	53	1.775	1.775	(0.425)	247316	100.000	105.15(M)
	24 2-Butanone	43	3.582	3.582	(0.857)	596777	200.000	214.23
	25 Methacrylonitrile	41	3.821	3.821	(0.915)	700145	100.000	103.69(a)
	26 2,2-Dichloropropane	77	3.507	3.507	(0.839)	797830	100.000	105.42
	27 cis-1,2-Dichloroethene	96	3.525	3.525	(0.844)	578093	100.000	102.37
	28 Chloroform	83	3.904	3.904	(0.935)	984765	100.000	98.94
	29 Bromochloromethane	128	3.795	3.795	(0.908)	308539	100.000	97.49
$	30 Dibromofluoromethane	113	4.099	4.099	(0.981)	502644	100.000	105.68
	31 1,1,1-Trichloroethane	97	4.084	4.084	(0.978)	846403	100.000	110.47
	32 1,1-Dichloropropene	75	4.279	4.279	(0.862)	731563	100.000	110.92
	33 1,2-Dichloroethane	62	4.556	4.556	(0.918)	901009	100.000	101.23
	34 Carbon Tetrachloride	117	4.260	4.260	(0.858)	726709	100.000	109.37
$	35 1,2-Dichloroethane-d4	65	4.470	4.470	(1.070)	615043	100.000	103.24
*	36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	808530	50.0000	
	37 Benzene	78	4.511	4.511	(0.909)	2032676	100.000	105.10
	38 Trichloroethene	130	5.201	5.201	(1.048)	584538	100.000	106.85
	39 Bromodichloromethane	83	5.726	5.726	(1.153)	741977	100.000	100.16
	40 Methyl Methacrylate	41	5.606	5.606	(1.342)	628263	100.000	99.51
	41 2-Chloroethylvinyl ether	63	6.044	6.044	(1.217)	497113	200.000	219.79
	42 1,2-Dichloropropane	63	5.433	5.433	(1.094)	653249	100.000	105.04
	43 2-Nitropropane	43	5.969	5.969	(1.429)	203991	100.000	98.16
	44 Dibromomethane	93	5.550	5.550	(1.118)	353228	100.000	100.34
	45 4-Methyl-2-Pentanone	43	6.326	6.326	(0.825)	1478418	200.000	198.78
	46 cis-1,3-Dichloropropene	75	6.153	6.153	(1.239)	899164	100.000	105.68
*	47 Chlorobenzene-d5	117	7.668	7.668	(1.000)	755792	50.0000	
$	48 Toluene-d8	98	6.386	6.386	(0.833)	1813180	100.000	93.17(M)
	49 Ethyl Methacrylate	69	6.712	6.712	(1.352)	499748	100.000	94.37
	50 Toluene	91	6.442	6.442	(0.840)	2182793	100.000	107.28
	51 trans-1,3-Dichloropropene	75	6.678	6.678	(1.345)	755710	100.000	105.36
	52 2-Hexanone	43	7.087	7.087	(0.924)	970744	200.000	198.69
	53 1,1,2-Trichloroethane	83	6.835	6.835	(0.891)	424795	100.000	98.42
	54 1,3-Dichloropropane	76	6.978	6.978	(0.910)	873450	100.000	99.06
	55 Dibromochloromethane	129	7.173	7.173	(0.935)	655964	100.000	105.28
	56 Tetrachloroethene	164	6.925	6.925	(0.903)	469739	100.000	111.75
	57 1,2-Dibromoethane	107	7.259	7.259	(0.947)	477019	100.000	96.72
	58 1-Chlorohexane	55	7.694	7.694	(1.550)	692334	100.000	106.58
	59 Chlorobenzene	112	7.690	7.690	(1.003)	1451842	100.000	102.08
	60 1,1,1,2-Tetrachloroethane	131	7.773	7.773	(1.014)	582430	100.000	104.61
	61 Ethylbenzene	106	7.795	7.795	(1.017)	757084	100.000	106.16
	62 m,p-Xylenes	106	7.900	7.900	(1.030)	1920317	200.000	214.63
	63 o-Xylene	106	8.237	8.237	(1.074)	894211	100.000	105.54
	64 Styrene	104	8.256	8.256	(1.077)	1543196	100.000	104.42
	66 Bromoform	173	8.410	8.410	(1.097)	423146	100.000	105.85
	67 Isopropylbenzene	105	8.560	8.560	(1.116)	2408268	100.000	110.58
	68 1,1,2,2-Tetrachloroethane	83	8.837	8.837	(0.915)	686871	100.000	97.37
$	69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	767493	100.000	102.43
*	70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	419955	50.0000	
	71 1,2,3-Trichloropropane	75	8.860	8.860	(0.917)	550885	100.000	98.41(M)
	72 trans-1,4-Dichloro-2-butene	53	8.886	8.886	(1.159)	253486	100.000	110.27
	73 n-Propylbenzene	91	8.908	8.908	(0.922)	2861434	100.000	112.75
	74 Bromobenzene	156	8.803	8.803	(0.911)	667827	100.000	101.67
	75 1,3,5-Trimethylbenzene	105	9.066	9.066	(0.938)	2103222	100.000	110.62

76	2-Chlorotoluene	91	8.972	8.972 (0.929)	1748246	100.000	102.12
77	4-Chlorotoluene	91	9.066	9.066 (0.938)	2018059	100.000	107.27

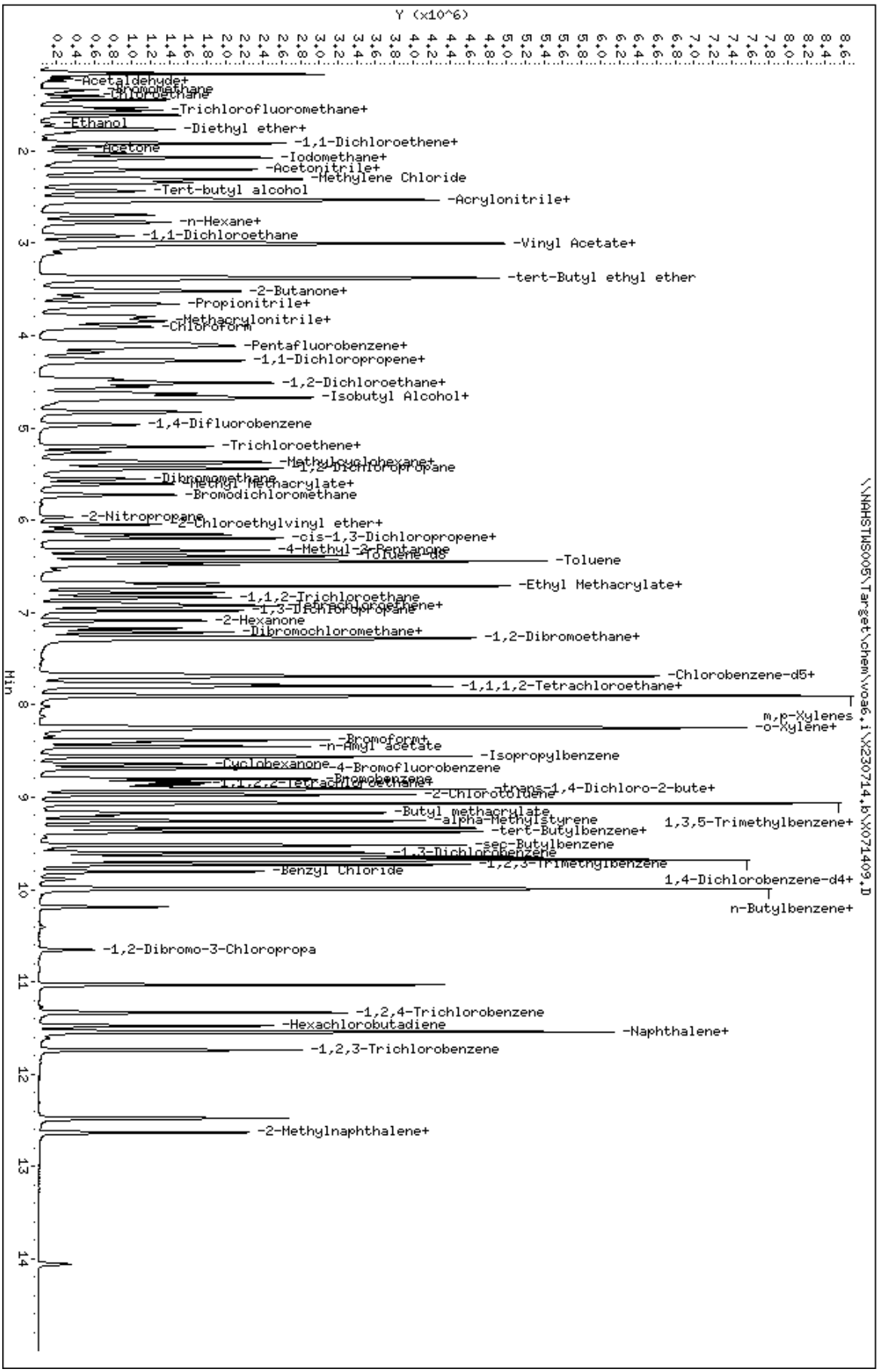
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
78	tert-Butylbenzene	119	9.336	9.336	(0.966)	1780796	100.000	109.22
79	1,2,4-Trimethylbenzene	105	9.377	9.377	(0.971)	2073163	100.000	108.74
81	sec-Butylbenzene	105	9.519	9.519	(0.985)	2510459	100.000	115.52
82	p-Isopropyltoluene	119	9.647	9.647	(0.998)	2265107	100.000	114.10
83	1,3-Dichlorobenzene	146	9.602	9.602	(0.994)	1217703	100.000	106.42
84	1,4-Dichlorobenzene	146	9.681	9.681	(1.002)	1289815	100.000	102.81
86	Benzyl Chloride	91	9.804	9.804	(1.279)	1321247	100.000	100.26
87	n-Butylbenzene	91	9.992	9.992	(1.034)	1995906	100.000	120.04
88	1,2-Dichlorobenzene	146	9.988	9.988	(1.034)	1197079	100.000	106.41
89	1,2-Dibromo-3-Chloropropane	155	10.651	10.651	(1.102)	119154	100.000	101.61
90	1,2,4-Trichlorobenzene	180	11.334	11.334	(1.173)	818711	100.000	105.96
91	Hexachlorobutadiene	225	11.476	11.476	(1.188)	382401	100.000	104.71
92	Naphthalene	128	11.540	11.540	(1.194)	1978675	100.000	103.47
93	1,2,3-Trichlorobenzene	180	11.739	11.739	(1.215)	745369	100.000	103.15
146	Methyl acetate	43	2.228	2.228	(0.533)	452160	100.000	97.12
138	Freon TF	101	1.917	1.917	(0.459)	422615	100.000	100.16
141	Cyclohexane	56	4.118	4.118	(0.986)	1080112	100.000	119.12
142	Tetrahydrofuran	42	3.848	3.848	(0.921)	261433	200.000	194.26
147	Methylcyclohexane	55	5.381	5.381	(1.084)	1785418	100.000	104.61(A)
135	1,4-Dioxane	88	5.598	5.598	(1.340)	124490	2000.00	2002.78
132	n-Butanol	56	5.261	5.261	(1.259)	380486	2000.00	2185.06
131	Methyl Acrylate	55	3.690	3.690	(0.883)	811825	100.000	114.17
133	Ethyl Acrylate	55	5.381	5.381	(1.288)	1785418	100.000	102.98
136	n-Hexane	57	2.772	2.772	(0.664)	700280	100.000	100.13
139	Diethyl ether	59	1.760	1.760	(0.421)	469212	100.000	96.19
148	Tert-butyl alcohol	59	2.434	2.434	(0.583)	1247600	2000.00	1889.72
149	Isopropyl alcohol	45	2.097	2.097	(0.502)	761231	2000.00	1858.21
156	Diisopropyl ether	45	3.004	3.004	(0.719)	2133149	100.000	98.94
166	1,2,3-Trimethylbenzene	105	9.729	9.729	(1.007)	2052311	100.000	105.71
167	Ethanol	45	1.703	1.703	(0.408)	150451	2000.00	2076.45
172	tert-Butyl formate	59	4.627	4.627	(1.108)	1076721	200.000	192.69
173	3,3-Dimethyl-1-butanol	57	7.289	7.289	(0.951)	1478367	2000.00	1818.81
174	tert-Amyl methyl ether	73	4.669	4.669	(1.118)	1654411	100.000	96.14
175	tert-Butyl ethyl ether	59	3.383	3.383	(0.810)	2142435	100.000	96.74
176	tert-Amyl alcohol	59	4.627	4.627	(1.108)	1076721	2000.00	1884.24
151	4-Methyl-2-pentanol	45	6.712	6.712	(1.352)	3281154	2000.00	1893.64
180	1-Methylnaphthalene	142	12.635	12.635	(1.308)	878613	100.000	(a)
140	1,3-Butadiene	54	1.167	1.167	(0.280)	742885	100.000	110.52
152	Amyl alcohol	42	6.903	6.903	(0.900)	457453	2000.00	2104.71
158	Dichlorofluoromethane	67	1.531	1.531	(0.367)	823584	100.000	97.72
159	Propylene oxide	43	1.805	1.805	(0.432)	116784	200.000	181.98
161	3-Methyl-1-butanol	55	6.899	6.899	(0.900)	421402	2000.00	2264.68
162	Butyl acrylate	55	8.249	8.249	(1.076)	1549632	100.000	107.77
163	Butyl methacrylate	41	9.167	9.167	(0.949)	1085490	100.000	107.91
164	Dicyclopentadiene	66	9.681	9.681	(1.002)	2485958	100.000	102.76
182	Epichlorohydrin	57	6.093	6.093	(1.227)	253170	400.000	419.20
M 94	1,2-Dichloroethylene (total)	96				1028469	200.000	(a)
145	alpha-Methylstyrene	118	9.257	9.257	(0.958)	977451	100.000	106.68
130	Ethyl Acetate	43	3.660	3.660	(0.876)	772631	100.000	99.44
134	Cyclohexanone	55	8.642	8.642	(0.894)	668441	2000.00	1787.90
185	Isoprene	39	1.771	1.771	(0.424)	186523	100.000	108.17
188	Isopropyl acetate	43	4.676	4.676	(0.942)	2105793	100.000	98.77

187 n-Amyl acetate	43	8.451	8.451 (1.102)	1369941	100.000	98.90
189 n-Butyl acetate	43	7.210	7.210 (0.940)	1203586	100.000	103.89(H)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
150 Allyl alcohol	57	2.772	2.772	(0.664)	700280	2000.00	2002.79
194 Acetaldehyde	44	1.212	1.212	(0.290)	189053	400.000	425.78(M)
195 Methyl Amyl Ketone	43	8.380	8.380	(1.093)	1583303	100.000	100.22
200 Dimethyl Disulfide	94	6.194	6.194	(0.808)	1112805	100.000	109.15
202 Isobutylene	41	1.242	1.242	(0.297)	90557	100.000	104.71(M)
205 2-Ethylhexyl Acrylate	55	11.544	11.544	(1.195)	1235080	100.000	115.14

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
exceeded maximum amount.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.



Data File: \\NAHSTWS005\Target\chem\voa6,i\X230714,b\X071409,D
Date : 14-JUL-2023 14:44
Client ID: VSTD100
Sample Info: VSTD100;VSTD100;1;8;
Purge Volume: 5.0
Column phase: DB624

Instrument: voa6,i
Operator: PC
Column diameter: 0.18

Data File : \\NAHSTWS005\Target\chem\voa6.i\X230714.b\X071409.D
Inj Date : 14-JUL-2023 14:44
InstruID : voa6.i
LabSampID : VSTD100

1,2,3-Trichloropropane (96-18-4)

Reason Code:

BEFORE

MASS
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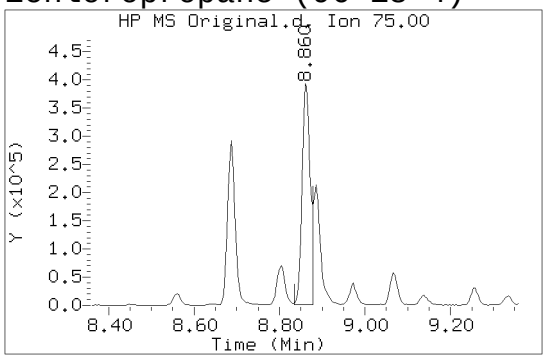
AREA
550885
HEIGHT
392625
20-Jul-2023
15:04
linh
pham



AFTER

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AREA
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HEIGHT
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20-Jul-2023
15:04
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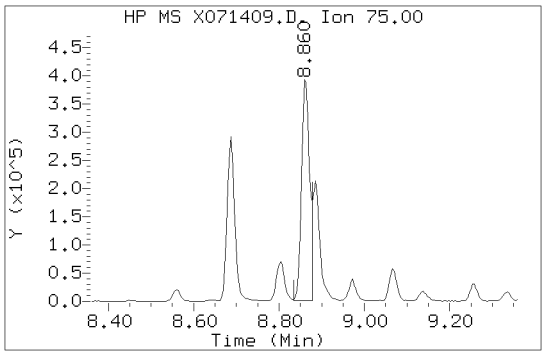

BEFORE

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AREA
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20-Jul-2023
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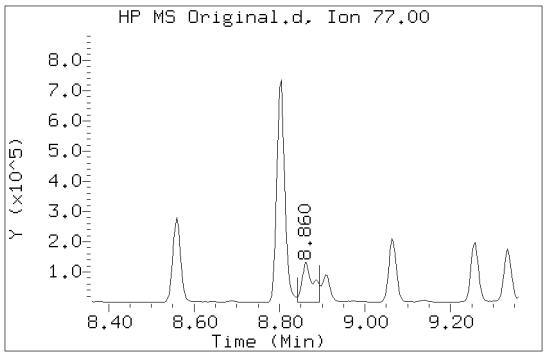

AFTER

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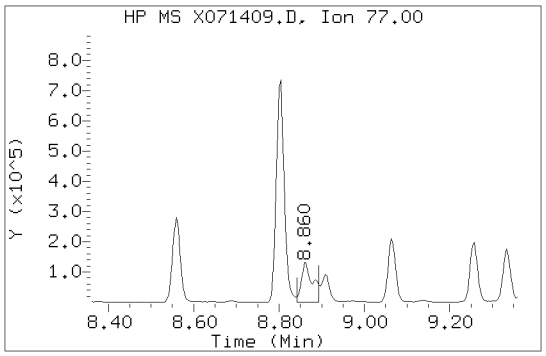

Chloroprene (126-99-8)

Reason Code:

BEFORE

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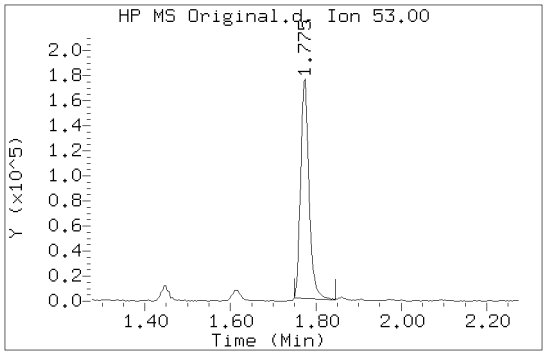

AFTER

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HEIGHT
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20-Jul-2023
15:04
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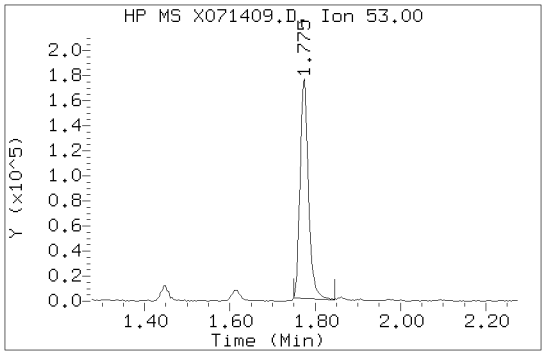

BEFORE

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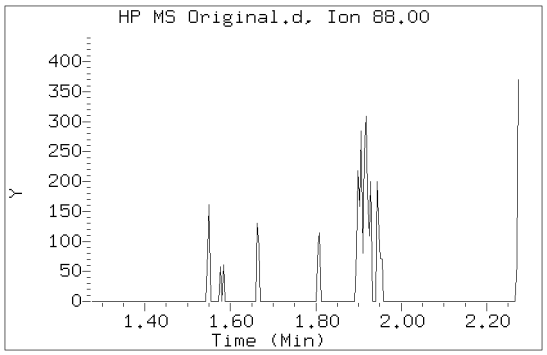

AFTER

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AREA
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HEIGHT
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20-Jul-2023
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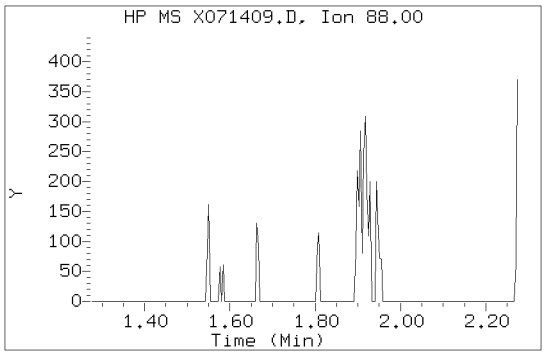

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Inj Date : 14-JUL-2023 14:44
InstruID : voa6.i
LabSampID : VSTD100

Acetaldehyde (75-07-0)

Reason Code:

BEFORE

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HEIGHT
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20-Jul-2023
15:04
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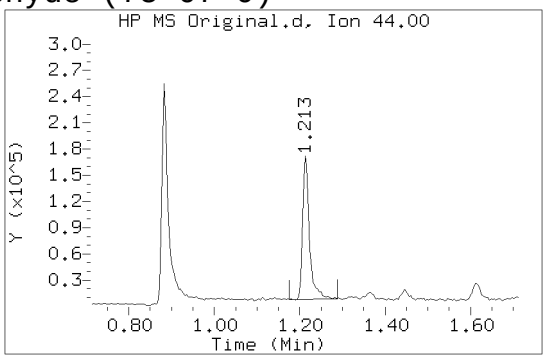

AFTER

MASS
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HEIGHT
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20-Jul-2023
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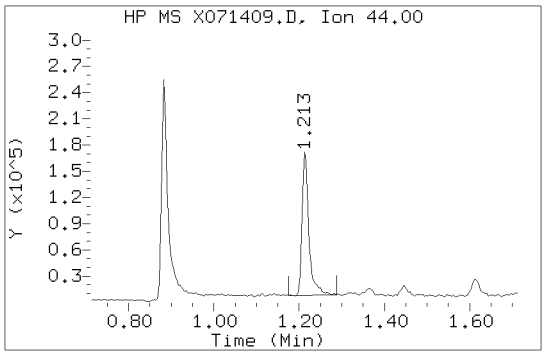

BEFORE

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AREA
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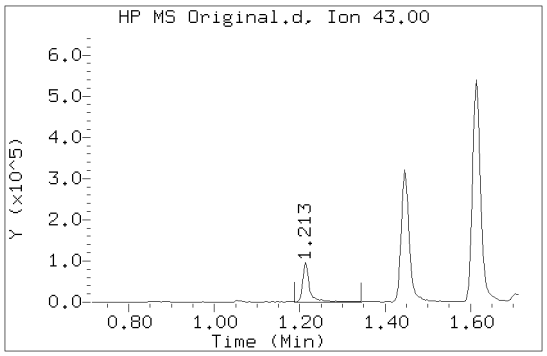
HEIGHT
96750
20-Jul-2023
15:04
linh
pham



AFTER

MASS
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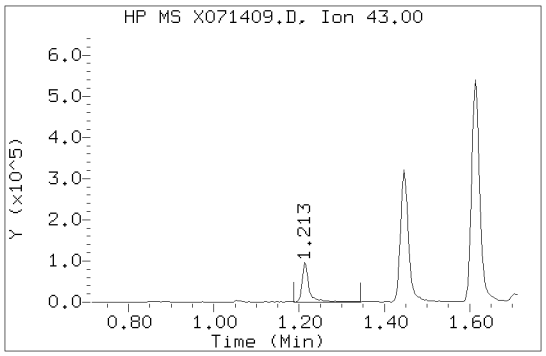

BEFORE

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20-Jul-2023
15:04
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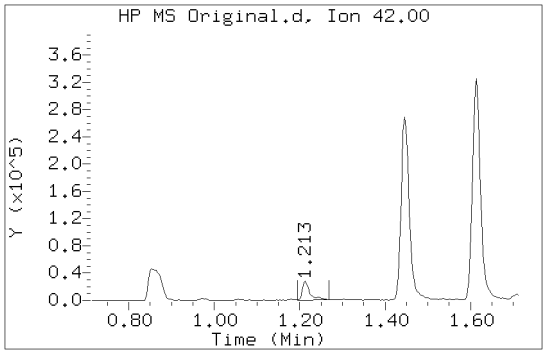
pham



AFTER

MASS
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AREA
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HEIGHT
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20-Jul-2023
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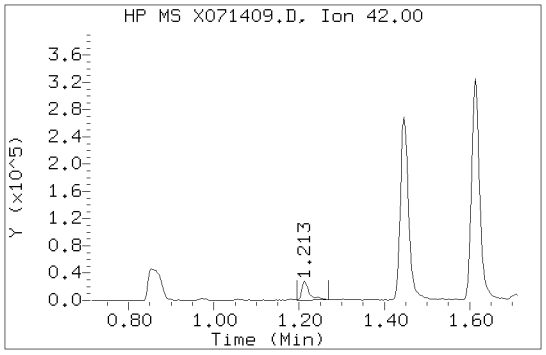

Isobutylene (115-11-7)

Reason Code:

BEFORE

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AREA
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HEIGHT
86300
20-Jul-2023
15:04
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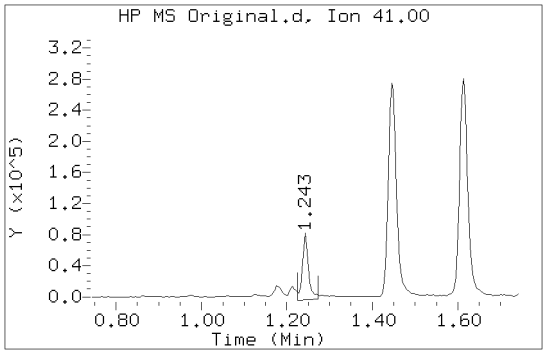
pham



AFTER

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15:04
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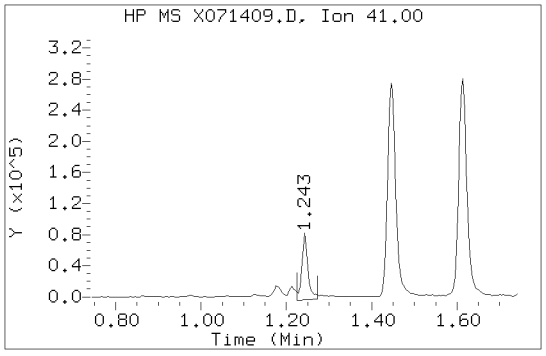
pham



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Inj Date : 14-JUL-2023 14:44
InstruID : voa6.i
LabSampID : VSTD100

Isobutylene (115-11-7)

Reason Code:

BEFORE
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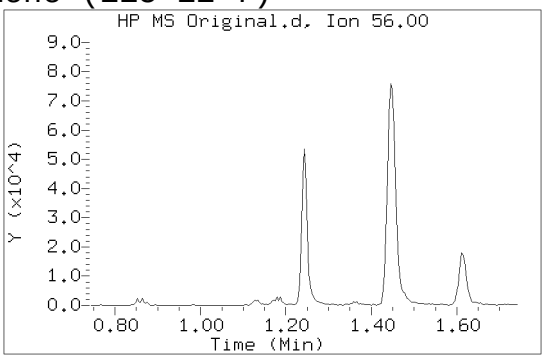

AFTER
MASS
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AREA
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HEIGHT
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20-Jul-2023
15:04
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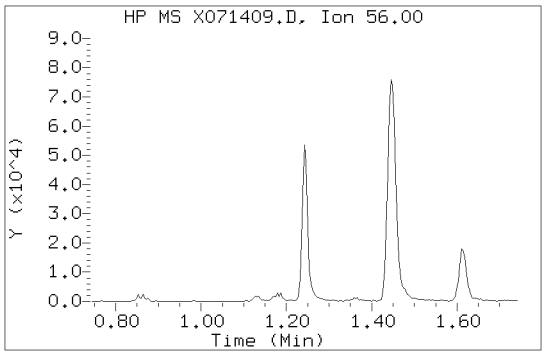

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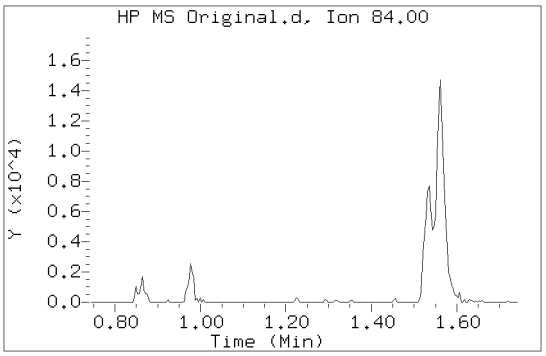

AFTER
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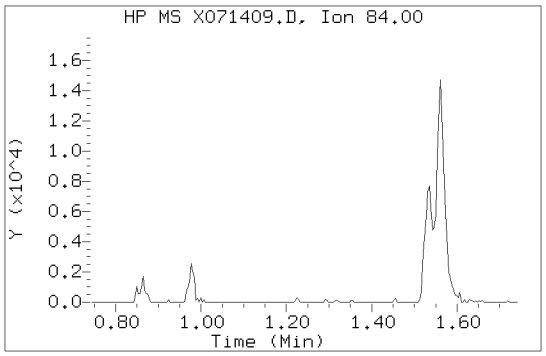

Toluene-d8 (2037-26-5)

Reason Code:

BEFORE
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AREA
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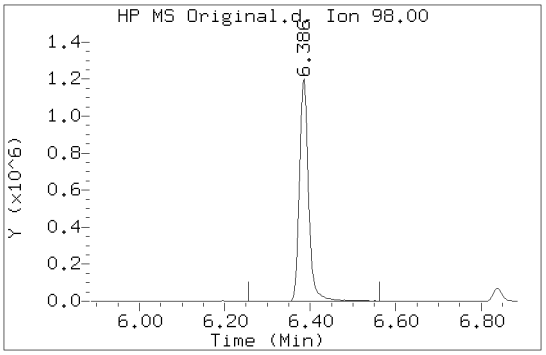
HEIGHT
1200620
20-Jul-2023
15:04
linh
pham



AFTER
MASS
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AREA
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HEIGHT
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20-Jul-2023
15:04
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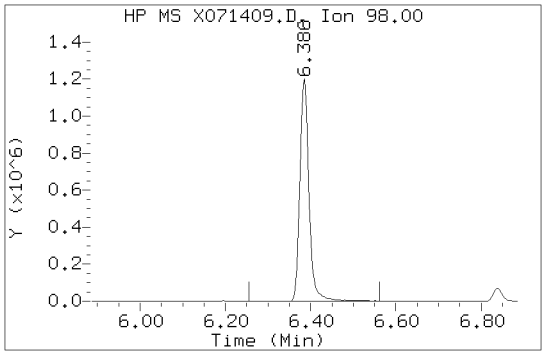

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20-Jul-2023
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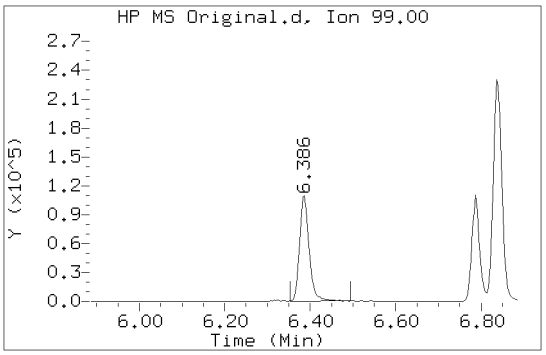

AFTER
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HEIGHT
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20-Jul-2023
15:04
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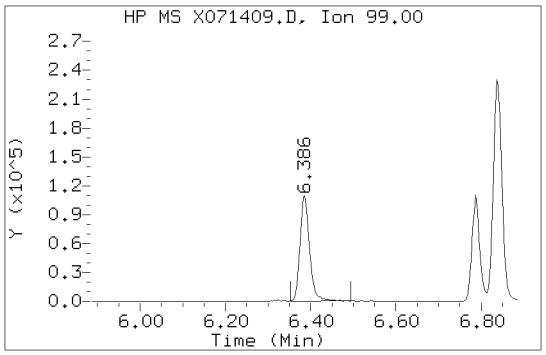

Data File : \\NAHSTWS005\Target\chem\voa6.i\X230714.b\X071409.D
Inj Date : 14-JUL-2023 14:44
InstruID : voa6.i
LabSampID : VSTD100

Toluene-d8 (2037-26-5)

Reason Code:

BEFORE

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AREA
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HEIGHT
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20-Jul-2023
15:04
linh
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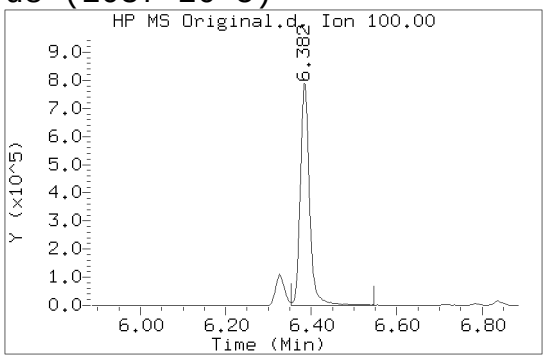

AFTER

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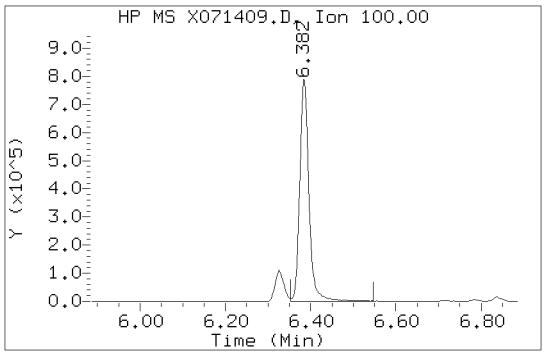

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230714.b\X071410.D Page 1
Report Date: 20-Jul-2023 15:05

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230714.b\X071410.D
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Inj Date : 14-JUL-2023 15:05
Operator : PC Inst ID: voa6.i
Smp Info : VSTD150;VSTD150;1;9;
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230714.b\8260W.m
Meth Date : 20-Jul-2023 15:05 voa6.i Quant Type: ISTD
Cal Date : 14-JUL-2023 14:44 Cal File: X071409.D
Als bottle: 11 Calibration Sample, Level: 9
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1	Pentafluorobenzene	168	4.178	4.178	(1.000)	527810	50.0000	
2	Dichlorodifluoromethane	85	0.976	0.976	(0.234)	822037	150.000	150.00
3	Chloromethane	50	1.081	1.081	(0.259)	1286174	150.000	161.33
4	Propionitrile	54	3.656	3.656	(0.875)	1601430	1500.00	1531.66
5	Vinyl Chloride	62	1.145	1.145	(0.274)	1063794	150.000	155.75
6	Bromomethane	94	1.336	1.336	(0.320)	469612	150.000	166.14
7	Chloroethane	64	1.404	1.404	(0.336)	574620	150.000	147.37
8	Trichlorofluoromethane	101	1.561	1.561	(0.374)	1133831	150.000	163.80
9	Acrolein	56	1.861	1.861	(0.446)	60619	300.000	301.00(M)
10	Acetone	43	1.973	1.973	(0.472)	616513	300.000	304.76
11	1,1-Dichloroethene	96	1.913	1.913	(0.458)	592973	150.000	153.35
12	Isobutyl Alcohol	43	4.676	4.676	(1.119)	3143464	3000.00	3141.89
13	Acetonitrile	39	2.198	2.198	(0.526)	1116521	1500.00	1508.54
14	Allyl Chloride	41	2.198	2.198	(0.526)	2479475	150.000	143.08
15	Iodomethane	142	2.030	2.030	(0.486)	1666204	300.000	298.54
16	Acrylonitrile	53	2.532	2.532	(0.606)	742882	300.000	288.83
17	Methylene Chloride	84	2.303	2.303	(0.551)	679924	150.000	151.80
18	Methyl tert-butyl ether	73	2.539	2.539	(0.608)	2090757	150.000	145.38
19	Carbon Disulfide	76	2.071	2.071	(0.496)	3776842	300.000	310.72
20	trans-1,2-Dichloroethene	96	2.528	2.528	(0.605)	652435	150.000	145.86

21 Vinyl Acetate	43	3.000	3.000 (0.718)	5593666	300.000	302.39
22 1,1-Dichloroethane	63	2.922	2.922 (0.699)	1431683	150.000	145.86

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	23 Chloroprene	53	1.771	1.771	(0.424)	369436	150.000	155.66
	24 2-Butanone	43	3.581	3.581	(0.857)	878521	300.000	312.55
	25 Methacrylonitrile	41	3.821	3.821	(0.915)	1065216	150.000	156.35(aM)
	26 2,2-Dichloropropane	77	3.507	3.507	(0.839)	1150093	150.000	150.52
	27 cis-1,2-Dichloroethene	96	3.522	3.522	(0.843)	837160	150.000	146.92
	28 Chloroform	83	3.904	3.904	(0.935)	1446796	150.000	144.05
	29 Bromochloromethane	128	3.791	3.791	(0.908)	457063	150.000	143.13
$	30 Dibromofluoromethane	113	4.099	4.099	(0.981)	719790	150.000	150.30
	31 1,1,1-Trichloroethane	97	4.080	4.080	(0.977)	1235806	150.000	159.84
	32 1,1-Dichloropropene	75	4.279	4.279	(0.862)	1058110	150.000	156.11
	33 1,2-Dichloroethane	62	4.552	4.552	(0.917)	1349536	150.000	147.53
	34 Carbon Tetrachloride	117	4.264	4.264	(0.859)	1056698	150.000	154.75(H)
$	35 1,2-Dichloroethane-d4	65	4.470	4.470	(1.070)	911155	150.000	151.87
*	36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	830945	50.0000	
	37 Benzene	78	4.511	4.511	(0.909)	2966123	150.000	149.23
	38 Trichloroethene	130	5.205	5.205	(1.048)	855874	150.000	152.23
	39 Bromodichloromethane	83	5.726	5.726	(1.153)	1126828	150.000	148.01
	40 Methyl Methacrylate	41	5.606	5.606	(1.342)	952441	150.000	149.51
	41 2-Chloroethylvinyl ether	63	6.044	6.044	(1.217)	736745	300.000	316.95
	42 1,2-Dichloropropane	63	5.437	5.437	(1.095)	965373	150.000	151.04
	43 2-Nitropropane	43	5.969	5.969	(1.429)	327090	150.000	155.99
	44 Dibromomethane	93	5.550	5.550	(1.118)	514778	150.000	142.29
	45 4-Methyl-2-Pentanone	43	6.325	6.325	(0.825)	2236545	300.000	293.85
	46 cis-1,3-Dichloropropene	75	6.153	6.153	(1.239)	1331094	150.000	152.22
*	47 Chlorobenzene-d5	117	7.668	7.668	(1.000)	773431	50.0000	
$	48 Toluene-d8	98	6.385	6.385	(0.833)	2609088	150.000	131.02(M)
	49 Ethyl Methacrylate	69	6.715	6.715	(1.353)	829910	150.000	152.50
	50 Toluene	91	6.442	6.442	(0.840)	3226930	150.000	154.99
	51 trans-1,3-Dichloropropene	75	6.678	6.678	(1.345)	1129301	150.000	153.20
	52 2-Hexanone	43	7.086	7.086	(0.924)	1502232	300.000	300.46
	53 1,1,2-Trichloroethane	83	6.839	6.839	(0.892)	629049	150.000	142.43
	54 1,3-Dichloropropane	76	6.978	6.978	(0.910)	1287243	150.000	142.66
	55 Dibromochloromethane	129	7.173	7.173	(0.935)	978359	150.000	153.44
	56 Tetrachloroethene	164	6.925	6.925	(0.903)	682053	150.000	158.57
	57 1,2-Dibromoethane	107	7.255	7.255	(0.946)	707106	150.000	140.10
	58 1-Chlorohexane	55	7.694	7.694	(1.550)	1016479	150.000	152.26
	59 Chlorobenzene	112	7.690	7.690	(1.003)	2169037	150.000	149.03
	60 1,1,1,2-Tetrachloroethane	131	7.772	7.772	(1.014)	874873	150.000	153.55
	61 Ethylbenzene	106	7.795	7.795	(1.017)	1121097	150.000	153.61
	62 m,p-Xylenes	106	7.900	7.900	(1.030)	2832546	300.000	309.38
	63 o-Xylene	106	8.237	8.237	(1.074)	1332457	150.000	153.68
	64 Styrene	104	8.256	8.256	(1.077)	2314702	150.000	153.05
	66 Bromoform	173	8.406	8.406	(1.096)	644372	150.000	157.51
	67 Isopropylbenzene	105	8.560	8.560	(1.116)	3517587	150.000	157.83
	68 1,1,2,2-Tetrachloroethane	83	8.837	8.837	(0.915)	1039682	150.000	143.99
$	69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	1135204	150.000	148.24
*	70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	429875	50.0000	
	71 1,2,3-Trichloropropane	75	8.860	8.860	(0.917)	832853	150.000	145.35(M)
	72 trans-1,4-Dichloro-2-butene	53	8.886	8.886	(1.159)	389558	150.000	165.60
	73 n-Propylbenzene	91	8.908	8.908	(0.922)	4183180	150.000	161.03
	74 Bromobenzene	156	8.803	8.803	(0.911)	988462	150.000	147.02
	75 1,3,5-Trimethylbenzene	105	9.066	9.066	(0.938)	3151476	150.000	161.94

76	2-Chlorotoluene	91	8.972	8.972 (0.929)	2593717	150.000	148.01
77	4-Chlorotoluene	91	9.066	9.066 (0.938)	3011546	150.000	156.39

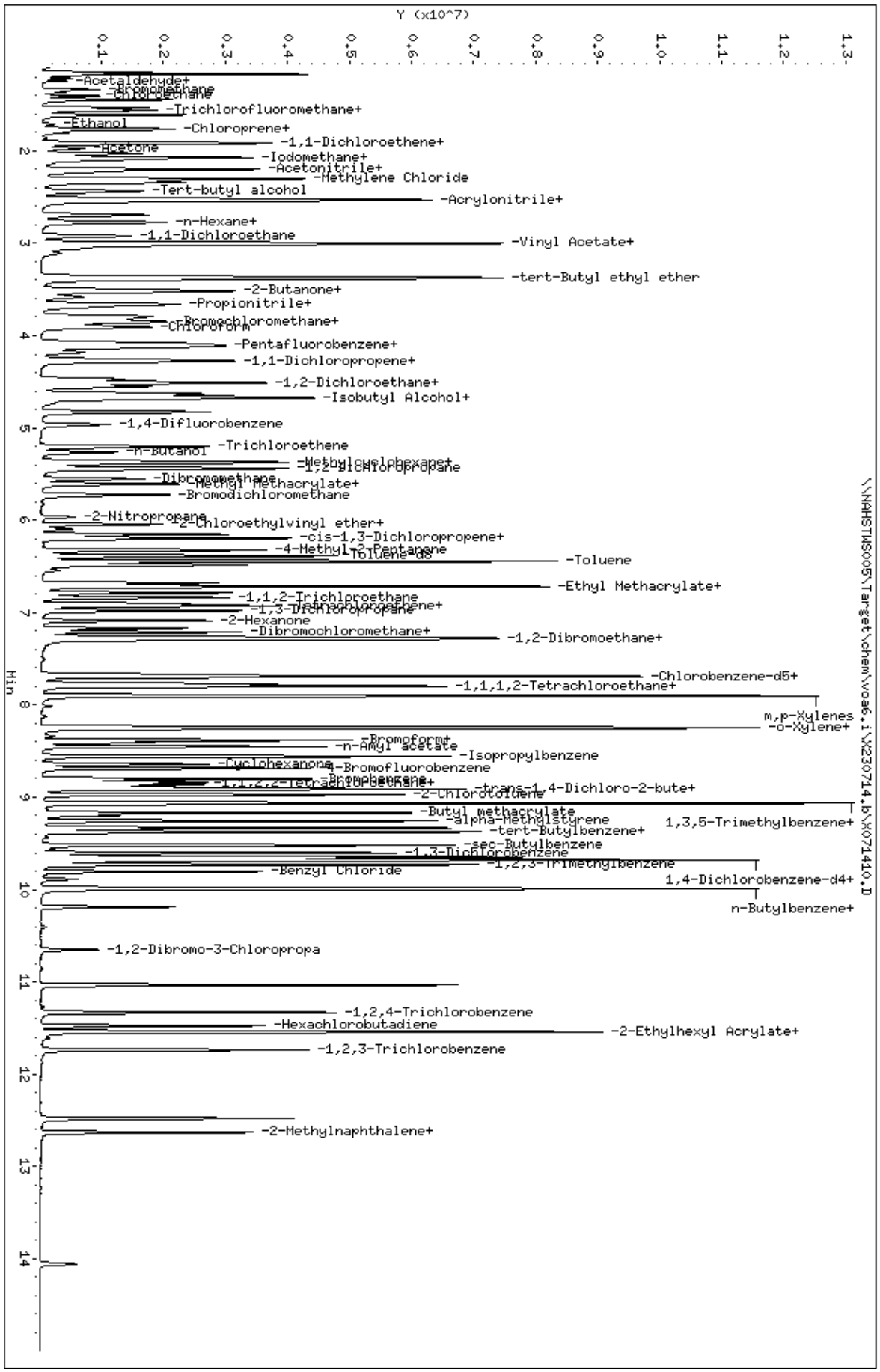
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
78	tert-Butylbenzene	119	9.336	9.336	(0.966)	2639400	150.000	158.15
79	1,2,4-Trimethylbenzene	105	9.377	9.377	(0.971)	3108890	150.000	159.30
81	sec-Butylbenzene	105	9.519	9.519	(0.985)	3705100	150.000	166.56
82	p-Isopropyltoluene	119	9.647	9.647	(0.998)	3332963	150.000	164.02
83	1,3-Dichlorobenzene	146	9.602	9.602	(0.994)	1820441	150.000	155.43
84	1,4-Dichlorobenzene	146	9.681	9.681	(1.002)	1873658	150.000	145.90
86	Benzyl Chloride	91	9.804	9.804	(1.279)	2041719	150.000	150.20
87	n-Butylbenzene	91	9.992	9.992	(1.034)	2930740	150.000	172.20
88	1,2-Dichlorobenzene	146	9.988	9.988	(1.034)	1771825	150.000	153.87
89	1,2-Dibromo-3-Chloropropane	155	10.651	10.651	(1.102)	181917	150.000	151.02
90	1,2,4-Trichlorobenzene	180	11.334	11.334	(1.173)	1234851	150.000	156.14
91	Hexachlorobutadiene	225	11.476	11.476	(1.188)	564457	150.000	149.95
92	Naphthalene	128	11.536	11.536	(1.194)	2932468	150.000	149.81(H)
93	1,2,3-Trichlorobenzene	180	11.739	11.739	(1.215)	1112132	150.000	150.36
146	Methyl acetate	43	2.228	2.228	(0.533)	681317	150.000	145.04
138	Freon TF	101	1.917	1.917	(0.459)	606555	150.000	111.66
141	Cyclohexane	56	4.118	4.118	(0.986)	1542802	150.000	168.63
142	Tetrahydrofuran	42	3.851	3.851	(0.922)	399301	300.000	294.06
147	Methylcyclohexane	55	5.377	5.377	(1.083)	2810624	150.000	160.25(A)
135	1,4-Dioxane	88	5.602	5.602	(1.341)	190045	3000.00	3030.04
132	n-Butanol	56	5.261	5.261	(1.259)	615802	3000.00	3504.76
131	Methyl Acrylate	55	3.690	3.690	(0.883)	1248423	150.000	174.00
133	Ethyl Acrylate	55	5.377	5.377	(1.287)	2810624	150.000	160.67
136	n-Hexane	57	2.772	2.772	(0.664)	1037045	150.000	105.54
139	Diethyl ether	59	1.756	1.756	(0.420)	707615	150.000	143.77
148	Tert-butyl alcohol	59	2.438	2.438	(0.584)	1892876	3000.00	2841.43
149	Isopropyl alcohol	45	2.097	2.097	(0.502)	1176234	3000.00	2845.54
156	Diisopropyl ether	45	3.004	3.004	(0.719)	3254817	150.000	149.61
166	1,2,3-Trimethylbenzene	105	9.729	9.729	(1.007)	3200479	150.000	161.06
167	Ethanol	45	1.711	1.711	(0.410)	220615	3000.00	3026.01
172	tert-Butyl formate	59	4.631	4.631	(1.109)	1704396	300.000	302.29(A)
173	3,3-Dimethyl-1-butanol	57	7.289	7.289	(0.951)	2433401	3000.00	2925.50
174	tert-Amyl methyl ether	73	4.669	4.669	(1.118)	2611847	150.000	150.42(M)
175	tert-Butyl ethyl ether	59	3.383	3.383	(0.810)	3273017	150.000	146.47
176	tert-Amyl alcohol	59	4.631	4.631	(1.109)	1704396	3000.00	2955.95
151	4-Methyl-2-pentanol	45	6.715	6.715	(1.353)	5221709	3000.00	2932.29
180	1-Methylnaphthalene	142	12.631	12.631	(1.307)	1346422	150.000	(a)
140	1,3-Butadiene	54	1.167	1.167	(0.280)	1064415	150.000	156.94
152	Amyl alcohol	42	6.903	6.903	(0.900)	729736	3000.00	3280.90
158	Dichlorofluoromethane	67	1.531	1.531	(0.367)	1246213	150.000	146.54
159	Propylene oxide	43	1.805	1.805	(0.432)	172752	300.000	266.78
161	3-Methyl-1-butanol	55	6.903	6.903	(0.900)	658666	3000.00	3459.04
162	Butyl acrylate	55	8.249	8.249	(1.076)	2429512	150.000	165.11
163	Butyl methacrylate	41	9.167	9.167	(0.949)	1571014	150.000	152.57
164	Dicyclopentadiene	66	9.684	9.684	(1.002)	3894938	150.000	157.29(H)
182	Epichlorohydrin	57	6.093	6.093	(1.227)	380786	600.000	613.50
M 94	1,2-Dichloroethylene (total)	96				1489595	300.000	(a)
145	alpha-Methylstyrene	118	9.257	9.257	(0.958)	1478505	150.000	157.64
130	Ethyl Acetate	43	3.660	3.660	(0.876)	1137763	150.000	145.13
134	Cyclohexanone	55	8.642	8.642	(0.894)	1027116	3000.00	2683.87
185	Isoprene	39	1.771	1.771	(0.424)	269460	150.000	154.87
188	Isopropyl acetate	43	4.676	4.676	(0.942)	3143464	150.000	143.47

187 n-Amyl acetate	43	8.451	8.451 (1.102)	2118647	150.000	149.46
189 n-Butyl acetate	43	7.210	7.210 (0.940)	1862306	150.000	157.09(H)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
150 Allyl alcohol	57	2.772	2.772	(0.664)	1037045	3000.00	2106.54
194 Acetaldehyde	44	1.212	1.212	(0.290)	265471	600.000	601.40(M)
195 Methyl Amyl Ketone	43	8.380	8.380	(1.093)	2526261	150.000	156.27
200 Dimethyl Disulfide	94	6.194	6.194	(0.808)	1709034	150.000	163.81
202 Isobutylene	41	1.242	1.242	(0.297)	129814	150.000	148.75(M)
205 2-Ethylhexyl Acrylate	55	11.544	11.544	(1.195)	1882332	150.000	171.43

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
exceeded maximum amount.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.



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Sample Info: VSTD150;VSTD150;1;9;
Purge Volume: 5.0
Column phase: DB624

Instrument: voa6.i
Operator: PC
Column diameter: 0.18

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Inj Date : 14-JUL-2023 15:05
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LabSampID : VSTD150

Acrolein (107-02-8)

Reason Code:

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20-Jul-2023
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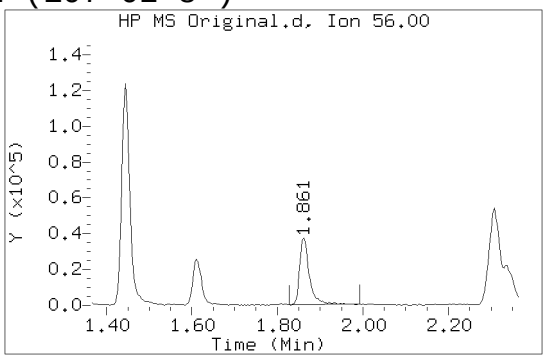

AFTER
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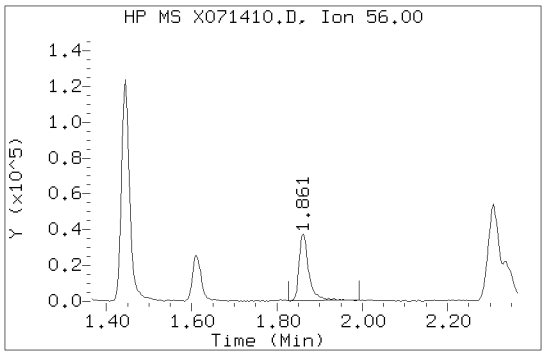

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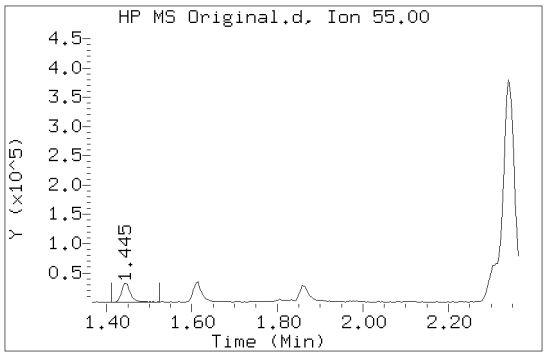

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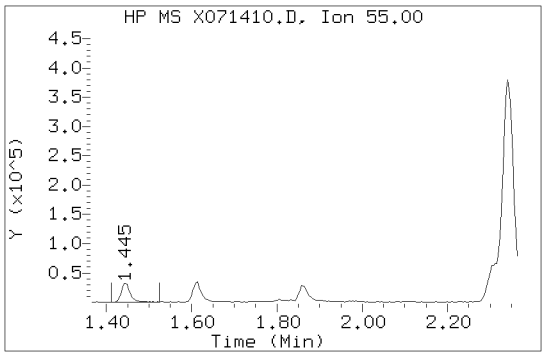

Methacrylonitrile (126-98-7)

Reason Code:

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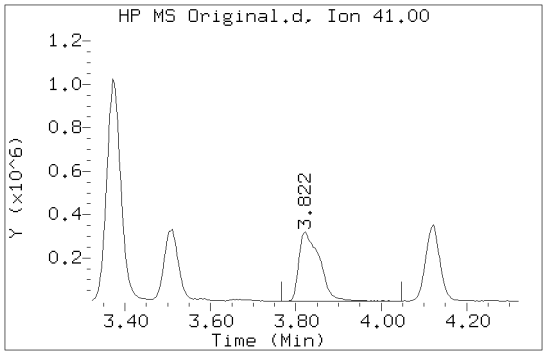

AFTER
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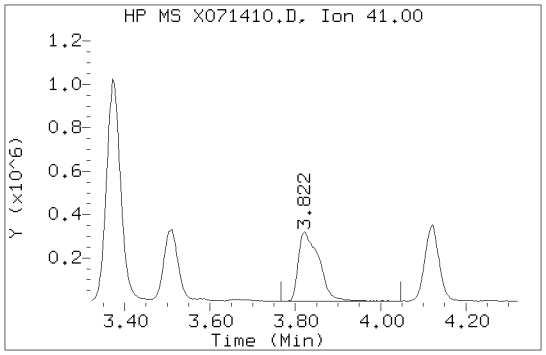

BEFORE
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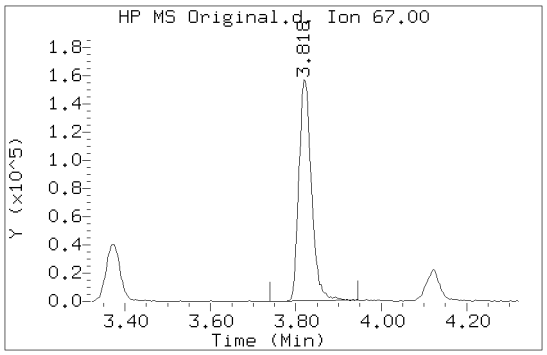

AFTER
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20-Jul-2023
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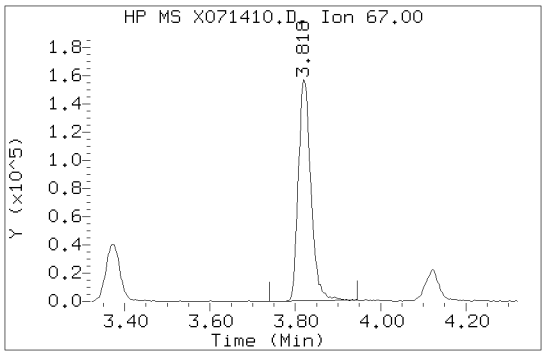

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InstruID : voa6.i
LabSampID : VSTD150

Methacrylonitrile (126-98-7)

Reason Code:

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20-Jul-2023
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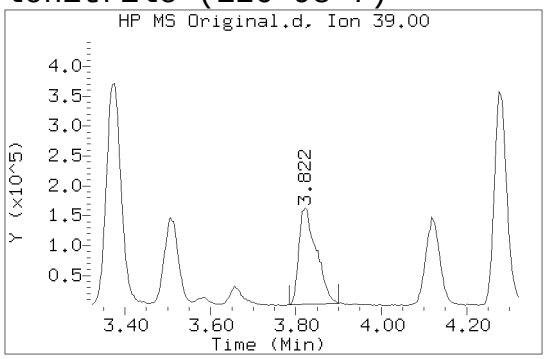

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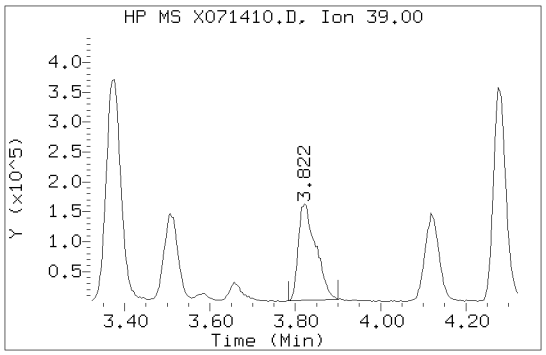

1,2,3-Trichloropropane (96-18-4)

Reason Code:

BEFORE

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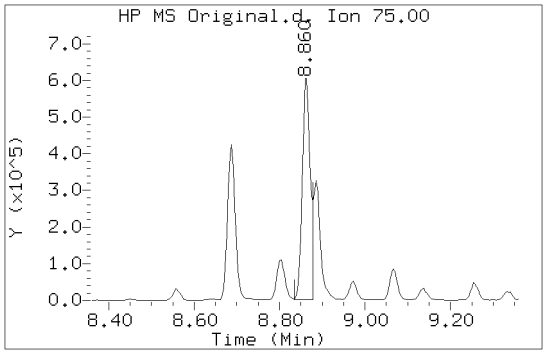

AFTER

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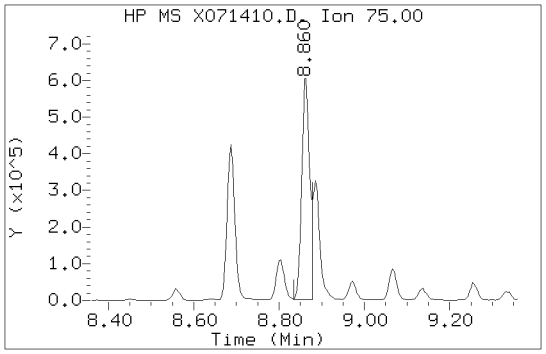

BEFORE

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20-Jul-2023
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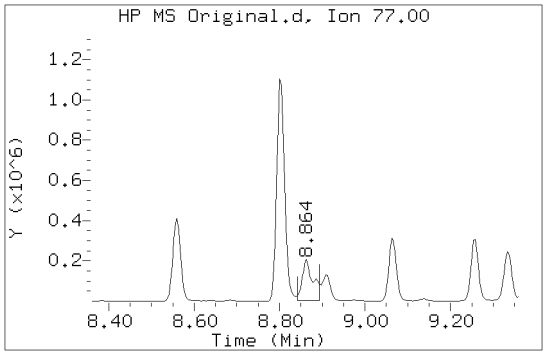

AFTER

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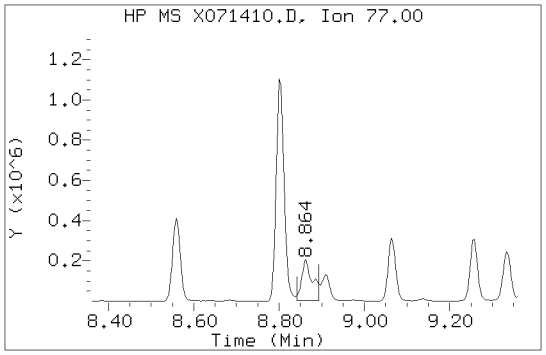

tert-Amyl methyl ether (974-05-08)

Reason Code:

BEFORE

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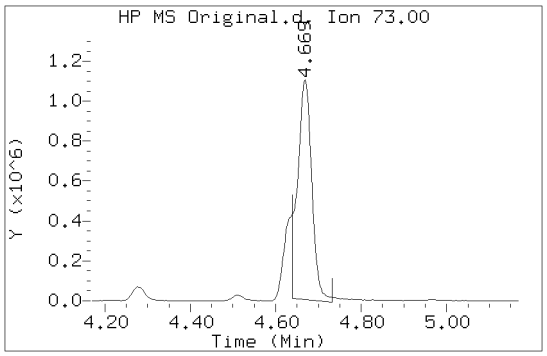
20-Jul-2023
15:04
linh
pham



AFTER

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HEIGHT
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20-Jul-2023
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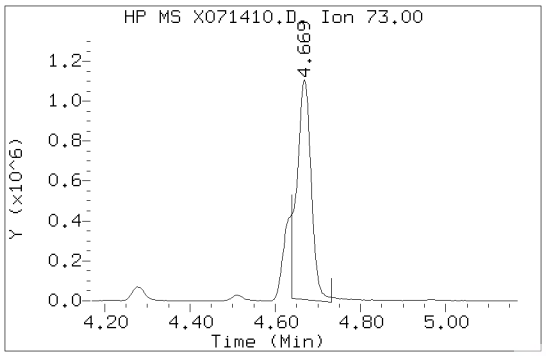

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InstruID : voa6.i
LabSampID : VSTD150

tert-Amyl methyl ether (974-05-08)

Reason Code:

BEFORE
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HEIGHT
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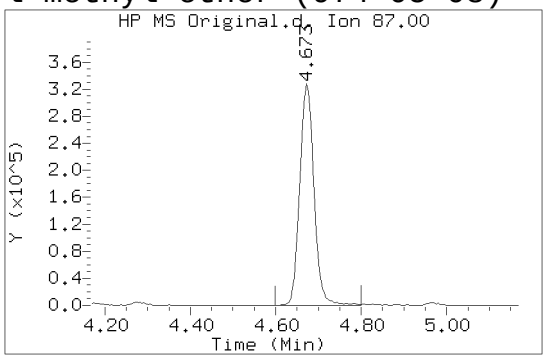
20-Jul-2023
15:04
linh
pham



AFTER
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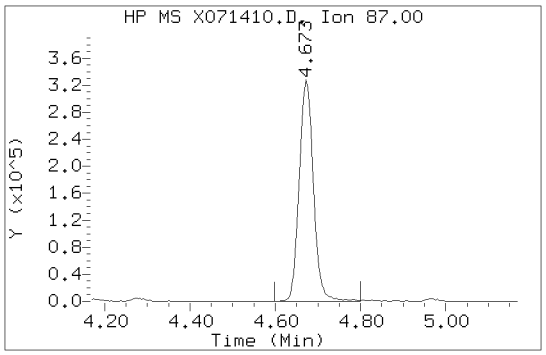

BEFORE
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20-Jul-2023
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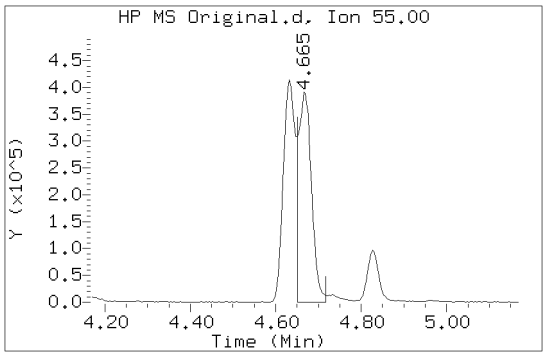

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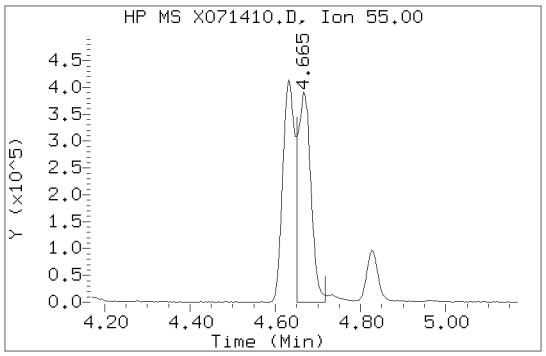

Acetaldehyde (75-07-0)

Reason Code:

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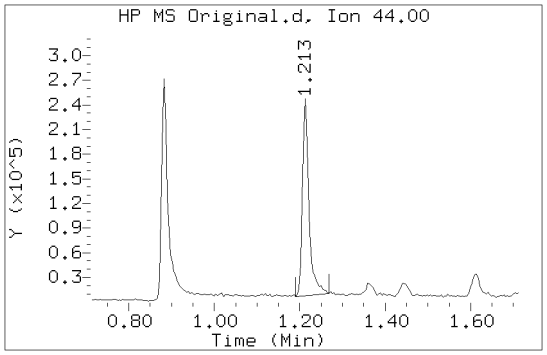

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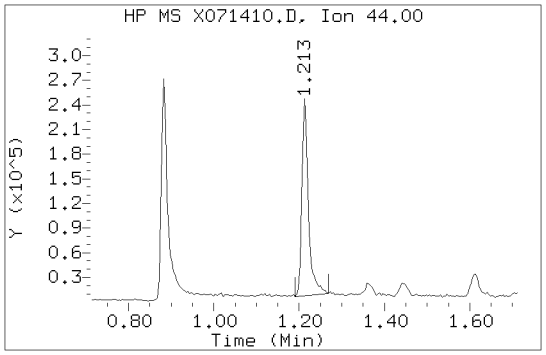

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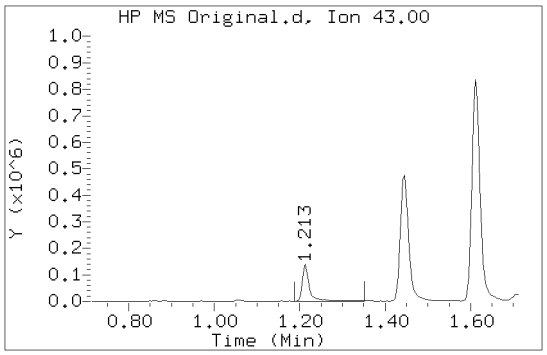

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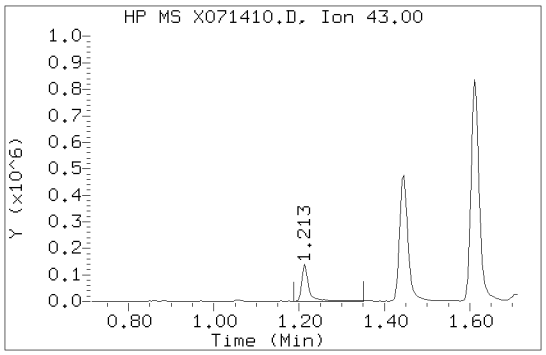

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InstruID : voa6.i
LabSampID : VSTD150

Acetaldehyde (75-07-0)

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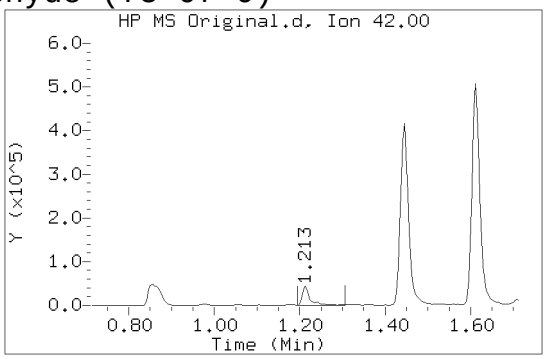

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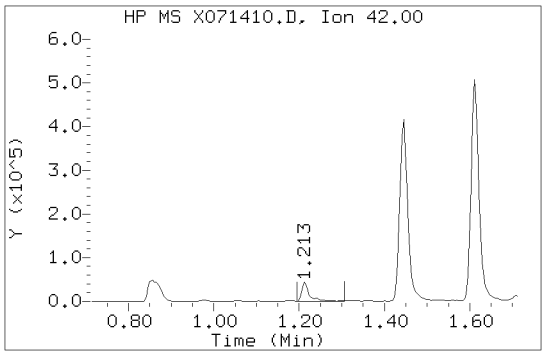

Isobutylene (115-11-7)

Reason Code:

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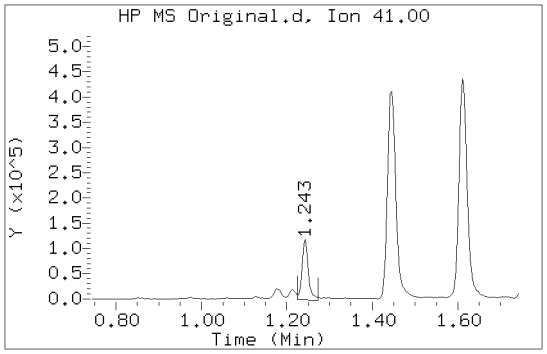

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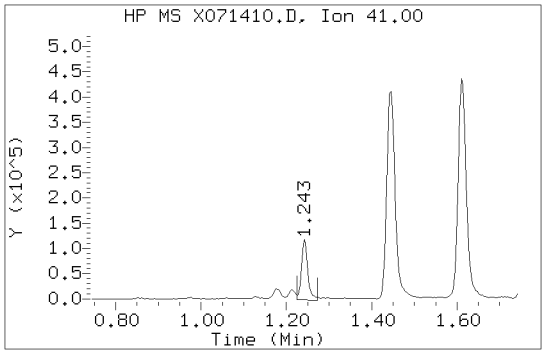

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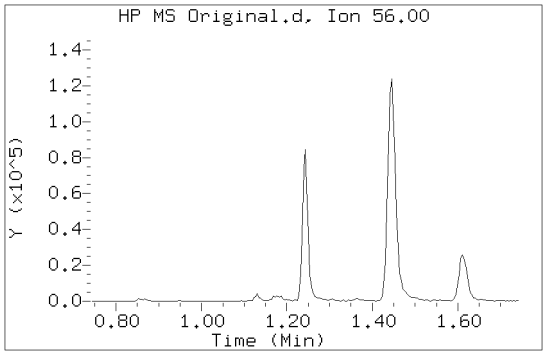

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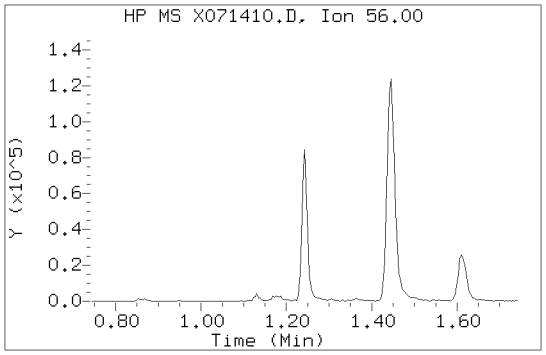

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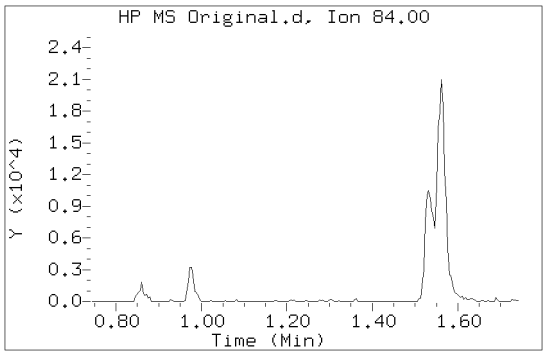

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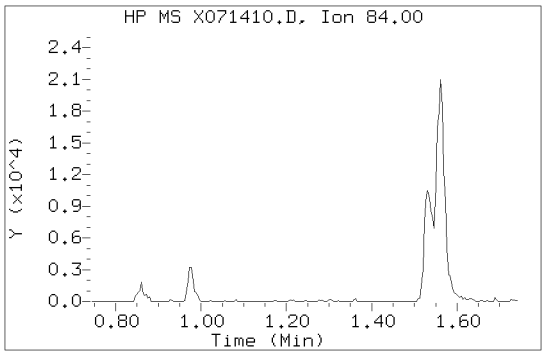

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InstruID : voa6.i
LabSampID : VSTD150

Toluene-d8 (2037-26-5)

Reason Code:

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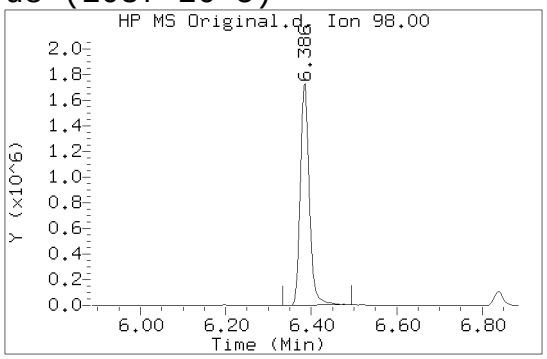

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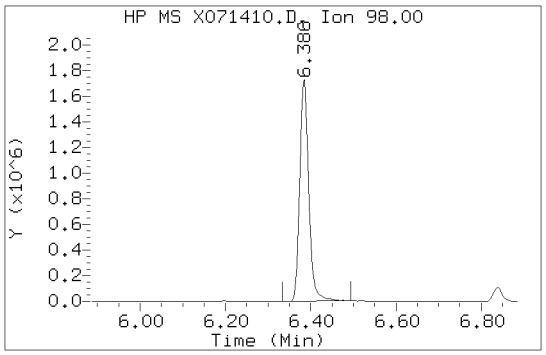

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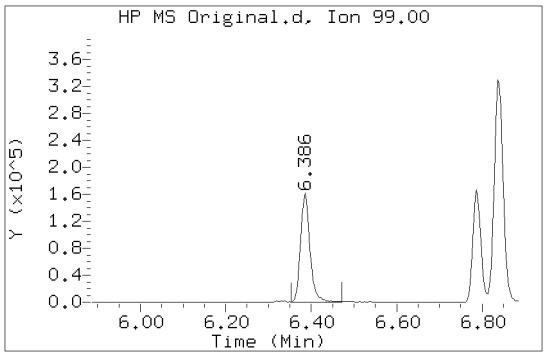

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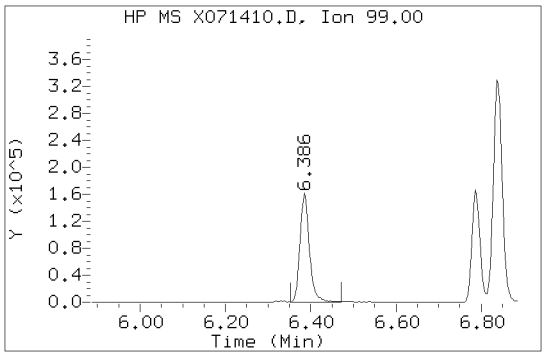

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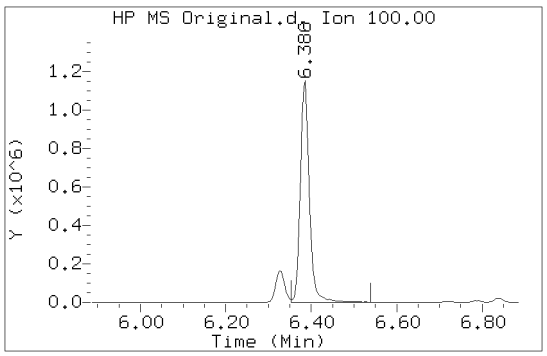

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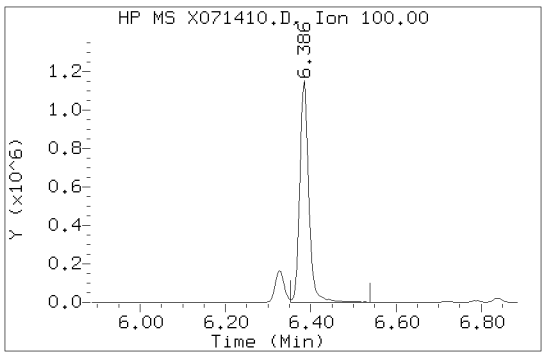

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Report Date: 20-Jul-2023 15:05

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230714.b\X071411.D
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Inj Date : 14-JUL-2023 15:25
Operator : PC Inst ID: voa6.i
Smp Info : VSTD200;VSTD200;1;10;
Misc Info : V6;WATER;0;1;
Comment   :
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Meth Date : 20-Jul-2023 15:05 voa6.i Quant Type: ISTD
Cal Date : 14-JUL-2023 15:05 Cal File: X071410.D
Als bottle: 12 Calibration Sample, Level: 10
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
*	1 Pentafluorobenzene	168	4.181	4.181	(1.000)	537032	50.0000	
	2 Dichlorodifluoromethane	85	0.976	0.976	(0.234)	1105119	200.000	197.85
	3 Chloromethane	50	1.081	1.081	(0.259)	1771073	200.000	218.34(A)
	4 Propionitrile	54	3.660	3.660	(0.875)	2109183	2000.00	1982.65
	5 Vinyl Chloride	62	1.145	1.145	(0.274)	1416013	200.000	203.75(A)
	6 Bromomethane	94	1.332	1.332	(0.319)	617046	200.000	214.56(A)
	7 Chloroethane	64	1.400	1.400	(0.335)	747413	200.000	188.39
	8 Trichlorofluoromethane	101	1.561	1.561	(0.373)	1509581	200.000	214.34(A)
	9 Acrolein	56	1.857	1.857	(0.444)	82636	400.000	402.90(AM)
	10 Acetone	43	1.973	1.973	(0.472)	806431	400.000	393.20
	11 1,1-Dichloroethene	96	1.913	1.913	(0.458)	797906	200.000	202.80(A)
	12 Isobutyl Alcohol	43	4.680	4.680	(1.119)	4072757	4000.00	4000.82(A)
	13 Acetonitrile	39	2.198	2.198	(0.526)	1461877	2000.00	1941.23
	14 Allyl Chloride	41	2.198	2.198	(0.526)	3258545	200.000	184.81
	15 Iodomethane	142	2.029	2.029	(0.485)	2365259	400.000	399.51
	16 Acrylonitrile	53	2.535	2.535	(0.606)	973671	400.000	372.06
	17 Methylene Chloride	84	2.303	2.303	(0.551)	893552	200.000	196.48
	18 Methyl tert-butyl ether	73	2.535	2.535	(0.606)	2728667	200.000	186.48
	19 Carbon Disulfide	76	2.071	2.071	(0.495)	5098731	400.000	412.27(A)
	20 trans-1,2-Dichloroethene	96	2.528	2.528	(0.605)	885590	200.000	194.59

21 Vinyl Acetate	43	3.000	3.000 (0.718)	7496591	400.000	398.30
22 1,1-Dichloroethane	63	2.922	2.922 (0.699)	1905438	200.000	190.79

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
23	Chloroprene	53	1.771	1.771	(0.424)	498457	200.000	206.42(A)
24	2-Butanone	43	3.581	3.581	(0.857)	1209313	400.000	422.85(A)
25	Methacrylonitrile	41	3.818	3.818	(0.913)	1405724	200.000	202.79(aA)
26	2,2-Dichloropropane	77	3.506	3.506	(0.839)	1535535	200.000	197.45
27	cis-1,2-Dichloroethene	96	3.521	3.521	(0.842)	1110625	200.000	191.56
28	Chloroform	83	3.904	3.904	(0.934)	1909053	200.000	186.82
29	Bromochloromethane	128	3.791	3.791	(0.907)	607870	200.000	187.09
$ 30	Dibromofluoromethane	113	4.099	4.099	(0.980)	959895	200.000	197.23
31	1,1,1-Trichloroethane	97	4.080	4.080	(0.976)	1657906	200.000	210.76(A)
32	1,1-Dichloropropene	75	4.279	4.279	(0.862)	1408668	200.000	209.46(A)
33	1,2-Dichloroethane	62	4.552	4.552	(0.917)	1793850	200.000	197.64
34	Carbon Tetrachloride	117	4.260	4.260	(0.858)	1394099	200.000	205.76(AH)
$ 35	1,2-Dichloroethane-d4	65	4.470	4.470	(1.069)	1203985	200.000	197.42
* 36	1,4-Difluorobenzene	114	4.965	4.965	(1.000)	824484	50.0000	
37	Benzene	78	4.511	4.511	(0.909)	3956301	200.000	200.61(A)
38	Trichloroethene	130	5.205	5.205	(1.048)	1148728	200.000	205.93(A)
39	Bromodichloromethane	83	5.722	5.722	(1.153)	1517659	200.000	200.91(A)
40	Methyl Methacrylate	41	5.606	5.606	(1.341)	1251379	200.000	193.06
41	2-Chloroethylvinyl ether	63	6.048	6.048	(1.218)	991998	400.000	430.11(A)
42	1,2-Dichloropropane	63	5.437	5.437	(1.095)	1286655	200.000	202.89(A)
43	2-Nitropropane	43	5.969	5.969	(1.428)	436967	200.000	204.81(A)
44	Dibromomethane	93	5.549	5.549	(1.118)	688009	200.000	191.66
45	4-Methyl-2-Pentanone	43	6.325	6.325	(0.825)	3017637	400.000	395.46
46	cis-1,3-Dichloropropene	75	6.153	6.153	(1.239)	1783083	200.000	205.51(A)
* 47	Chlorobenzene-d5	117	7.667	7.667	(1.000)	775428	50.0000	
$ 48	Toluene-d8	98	6.385	6.385	(0.833)	3447548	200.000	172.68(M)
49	Ethyl Methacrylate	69	6.719	6.719	(1.353)	1128954	200.000	209.07
50	Toluene	91	6.445	6.445	(0.841)	4312229	200.000	206.58(A)
51	trans-1,3-Dichloropropene	75	6.678	6.678	(1.345)	1544556	200.000	211.18(A)
52	2-Hexanone	43	7.086	7.086	(0.924)	2017738	400.000	402.53(A)
53	1,1,2-Trichloroethane	83	6.839	6.839	(0.892)	846183	200.000	191.10
54	1,3-Dichloropropane	76	6.981	6.981	(0.911)	1733058	200.000	191.57
55	Dibromochloromethane	129	7.173	7.173	(0.935)	1320761	200.000	206.61(A)
56	Tetrachloroethene	164	6.925	6.925	(0.903)	902535	200.000	209.29(A)
57	1,2-Dibromoethane	107	7.259	7.259	(0.947)	964928	200.000	190.69
58	1-Chlorohexane	55	7.694	7.694	(1.550)	1371878	200.000	207.11(A)
59	Chlorobenzene	112	7.690	7.690	(1.003)	2926240	200.000	200.54(A)
60	1,1,1,2-Tetrachloroethane	131	7.772	7.772	(1.014)	1173596	200.000	205.45(A)
61	Ethylbenzene	106	7.799	7.799	(1.017)	1505552	200.000	205.76(A)
62	m,p-Xylenes	106	7.900	7.900	(1.030)	3831125	400.000	417.37(A)
63	o-Xylene	106	8.241	8.241	(1.075)	1805494	200.000	207.70(A)
64	Styrene	104	8.256	8.256	(1.077)	3136788	200.000	206.88(A)
66	Bromoform	173	8.406	8.406	(1.096)	880696	200.000	214.73(A)
67	Isopropylbenzene	105	8.560	8.560	(1.116)	4823863	200.000	215.89(A)
68	1,1,2,2-Tetrachloroethane	83	8.837	8.837	(0.915)	1401164	200.000	192.48
$ 69	4-Bromofluorobenzene	95	8.687	8.687	(1.133)	1538168	200.000	200.50(A)
* 70	1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	433375	50.0000	
71	1,2,3-Trichloropropane	75	8.863	8.863	(0.917)	1119387	200.000	193.78(M)
72	trans-1,4-Dichloro-2-butene	53	8.886	8.886	(1.159)	524884	200.000	222.56(A)
73	n-Propylbenzene	91	8.912	8.912	(0.922)	5714404	200.000	218.20(A)
74	Bromobenzene	156	8.803	8.803	(0.911)	1365207	200.000	201.42(A)
75	1,3,5-Trimethylbenzene	105	9.066	9.066	(0.938)	4273312	200.000	217.81(A)

76	2-Chlorotoluene	91	8.972	8.972 (0.929)	3520653	200.000	199.28
77	4-Chlorotoluene	91	9.069	9.069 (0.939)	4116709	200.000	212.06(A)

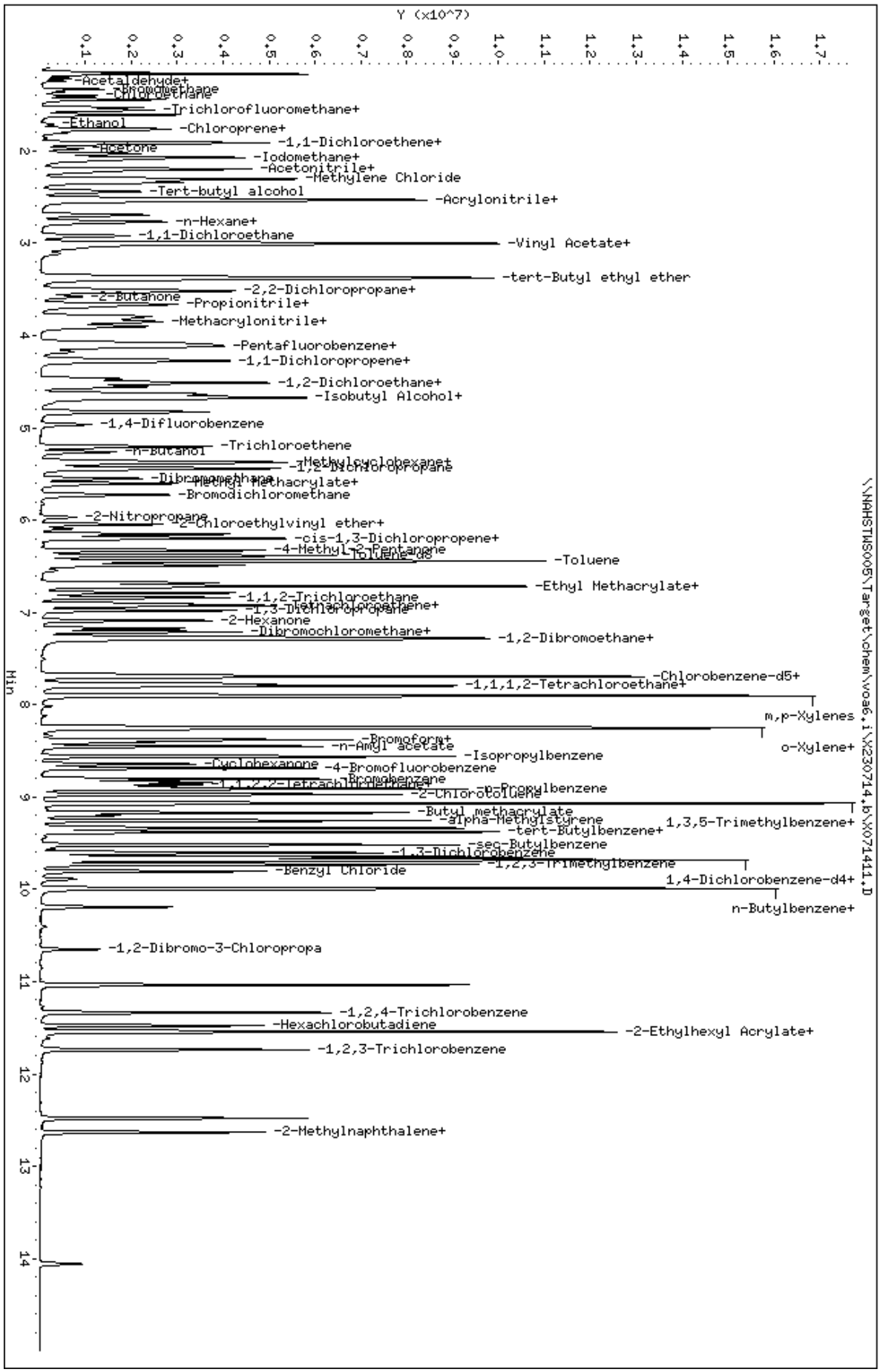
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
78	tert-Butylbenzene	119	9.336	9.336	(0.966)	3564918	200.000	211.88(A)
79	1,2,4-Trimethylbenzene	105	9.377	9.377	(0.971)	4248690	200.000	215.95(A)
81	sec-Butylbenzene	105	9.519	9.519	(0.985)	4998963	200.000	222.91(A)
82	p-Isopropyltoluene	119	9.647	9.647	(0.998)	4531097	200.000	221.18(A)
83	1,3-Dichlorobenzene	146	9.602	9.602	(0.994)	2443663	200.000	206.95(A)
84	1,4-Dichlorobenzene	146	9.680	9.680	(1.002)	2568367	200.000	198.39
86	Benzyl Chloride	91	9.804	9.804	(1.279)	2751633	200.000	201.10(A)
87	n-Butylbenzene	91	9.992	9.992	(1.034)	3988441	200.000	232.46(A)
88	1,2-Dichlorobenzene	146	9.992	9.992	(1.034)	2403758	200.000	207.07(A)
89	1,2-Dibromo-3-Chloropropane	155	10.651	10.651	(1.102)	242707	200.000	199.51
90	1,2,4-Trichlorobenzene	180	11.334	11.334	(1.173)	1693827	200.000	212.44(A)
91	Hexachlorobutadiene	225	11.480	11.480	(1.188)	760294	200.000	199.55
92	Naphthalene	128	11.536	11.536	(1.194)	4036891	200.000	204.57(AH)
93	1,2,3-Trichlorobenzene	180	11.738	11.738	(1.215)	1513592	200.000	202.99(A)
146	Methyl acetate	43	2.228	2.228	(0.533)	902568	200.000	188.84
138	Freon TF	101	1.917	1.917	(0.459)	815067	200.000	103.34
141	Cyclohexane	56	4.117	4.117	(0.985)	2078176	200.000	223.25(A)
142	Tetrahydrofuran	42	3.851	3.851	(0.921)	520211	400.000	376.52
147	Methylcyclohexane	55	5.381	5.381	(1.084)	3760283	200.000	216.07(A)
135	1,4-Dioxane	88	5.602	5.602	(1.340)	258483	4000.00	4050.44(A)
132	n-Butanol	56	5.261	5.261	(1.258)	850812	4000.00	4759.14(A)
131	Methyl Acrylate	55	3.686	3.686	(0.882)	1635344	200.000	224.02(A)
133	Ethyl Acrylate	55	5.381	5.381	(1.287)	3760283	200.000	211.27(A)
136	n-Hexane	57	2.768	2.768	(0.662)	1402092	200.000	83.16
139	Diethyl ether	59	1.760	1.760	(0.421)	924117	200.000	184.53
148	Tert-butyl alcohol	59	2.442	2.442	(0.584)	2546793	4000.00	3757.39
149	Isopropyl alcohol	45	2.101	2.101	(0.502)	1585037	4000.00	3768.67
156	Diisopropyl ether	45	3.008	3.008	(0.719)	4204307	200.000	189.94
166	1,2,3-Trimethylbenzene	105	9.729	9.729	(1.007)	4285563	200.000	213.92(A)
167	Ethanol	45	1.711	1.711	(0.409)	291912	4000.00	3940.79
172	tert-Butyl formate	59	4.635	4.635	(1.108)	2334112	400.000	406.87(AM)
173	3,3-Dimethyl-1-butanol	57	7.293	7.293	(0.951)	3164338	4000.00	3794.46
174	tert-Amyl methyl ether	73	4.668	4.668	(1.117)	3325871	200.000	188.25(M)
175	tert-Butyl ethyl ether	59	3.379	3.379	(0.808)	4320968	200.000	190.05
176	tert-Amyl alcohol	59	4.635	4.635	(1.108)	2334112	4000.00	3978.56(M)
151	4-Methyl-2-pentanol	45	6.715	6.715	(1.353)	7205996	4000.00	4078.30(A)
180	1-Methylnaphthalene	142	12.631	12.631	(1.307)	1852094	200.000	(a)
140	1,3-Butadiene	54	1.167	1.167	(0.279)	1429438	200.000	207.14(A)
152	Amyl alcohol	42	6.903	6.903	(0.900)	980159	4000.00	4395.46(A)
158	Dichlorofluoromethane	67	1.531	1.531	(0.366)	1636710	200.000	189.15
159	Propylene oxide	43	1.805	1.805	(0.432)	214178	400.000	325.08
161	3-Methyl-1-butanol	55	6.903	6.903	(0.900)	873259	4000.00	4574.19(A)
162	Butyl acrylate	55	8.248	8.248	(1.076)	3266024	200.000	221.39(A)
163	Butyl methacrylate	41	9.171	9.171	(0.949)	2061719	200.000	198.61
164	Dicyclopentadiene	66	9.684	9.684	(1.002)	5152004	200.000	206.38(A)
182	Epichlorohydrin	57	6.093	6.093	(1.227)	509575	800.000	827.43(A)
M 94	1,2-Dichloroethylene (total)	96				1996215	400.000	(a)
145	alpha-Methylstyrene	118	9.257	9.257	(0.958)	1984425	200.000	209.88(A)
130	Ethyl Acetate	43	3.660	3.660	(0.875)	1526148	200.000	191.33
134	Cyclohexanone	55	8.642	8.642	(0.894)	1269424	4000.00	3290.23
185	Isoprene	39	1.771	1.771	(0.424)	352780	200.000	199.28
188	Isopropyl acetate	43	4.680	4.680	(0.943)	4112016	200.000	189.15

187 n-Amyl acetate	43	8.451	8.451 (1.102)	2862687	200.000	201.43(A)
189 n-Butyl acetate	43	7.210	7.210 (0.940)	2520952	200.000	212.11(AH)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
150 Allyl alcohol	57	2.768	2.768	(0.662)	1402092	4000.00	1651.10
194 Acetaldehyde	44	1.212	1.212	(0.290)	347350	800.000	779.86(M)
195 Methyl Amyl Ketone	43	8.380	8.380	(1.093)	3390972	200.000	209.22
200 Dimethyl Disulfide	94	6.198	6.198	(0.808)	2283547	200.000	218.32(A)
202 Isobutylene	41	1.242	1.242	(0.297)	170200	200.000	191.69(M)
205 2-Ethylhexyl Acrylate	55	11.547	11.547	(1.195)	2531204	200.000	228.67(A)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
exceeded maximum amount.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.



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Client ID: VSTD200
Sample Info: VSTD200;VSTD200;1;10;
Purge Volume: 5.0
Column phase: DB624

Instrument: voa6.i
Operator: PC
Column diameter: 0.18

Data File : \\NAHSTWS005\Target\chem\voa6.i\X230714.b\X071411.D
Inj Date : 14-JUL-2023 15:25
InstruID : voa6.i
LabSampID : VSTD200

Acrolein (107-02-8)

Reason Code:

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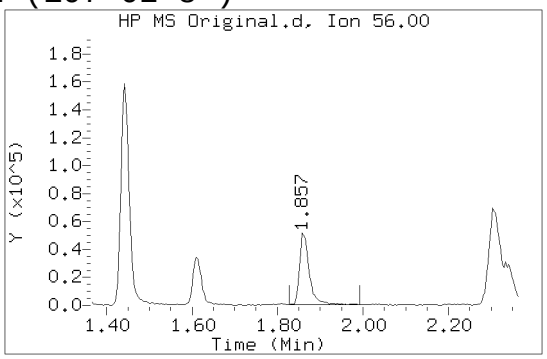
82636
HEIGHT
51148
20-Jul-2023
15:04
linh
pham



AFTER
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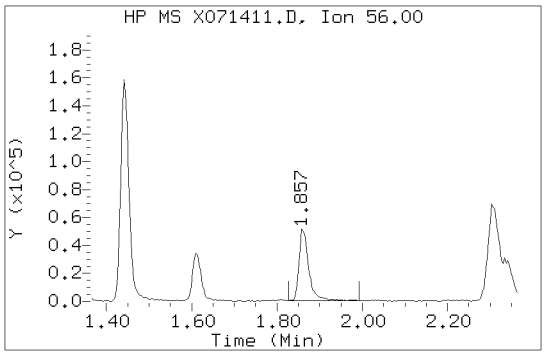

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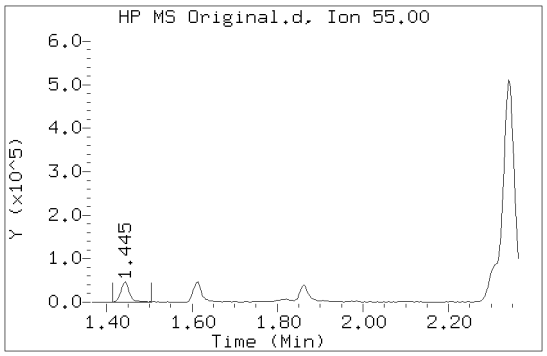

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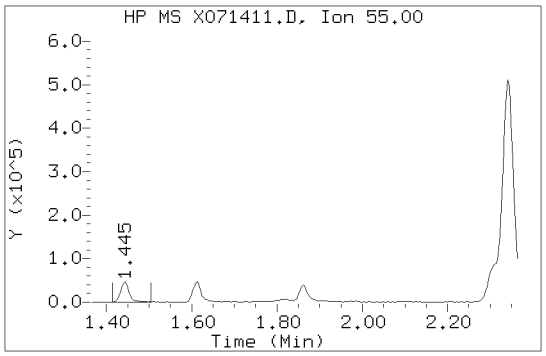

1,2,3-Trichloropropane (96-18-4)

Reason Code:

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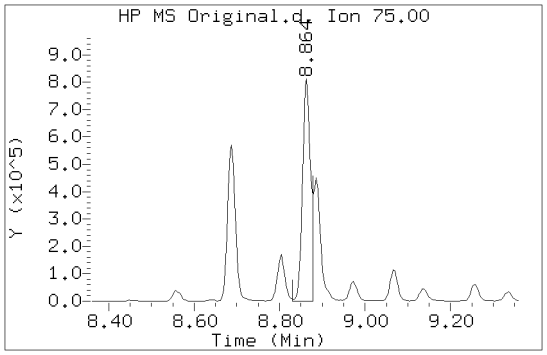

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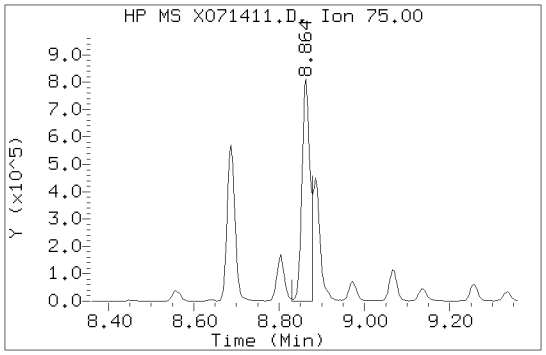

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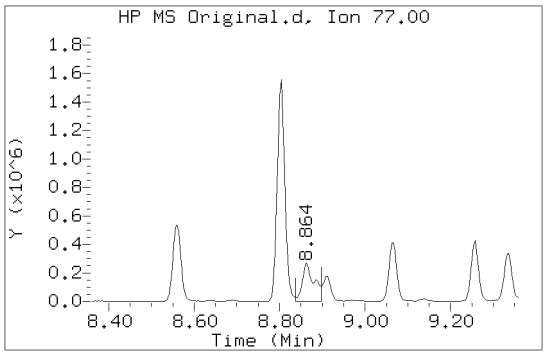

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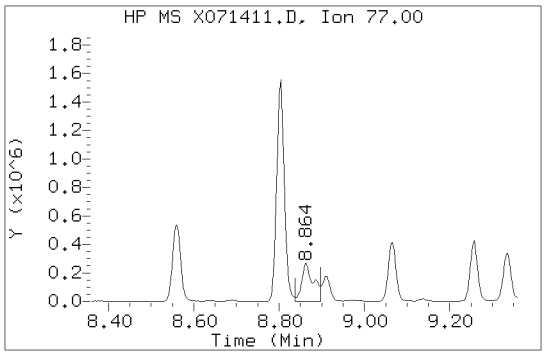

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InstruID : voa6.i
LabSampID : VSTD200

tert-Butyl formate (762-75-4)

Reason Code:

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20-Jul-2023
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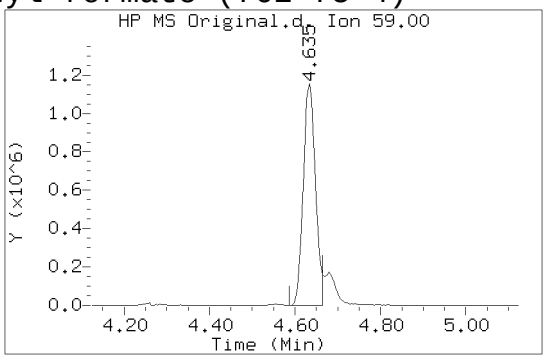

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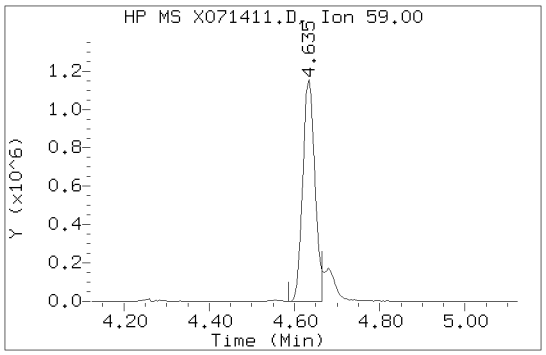

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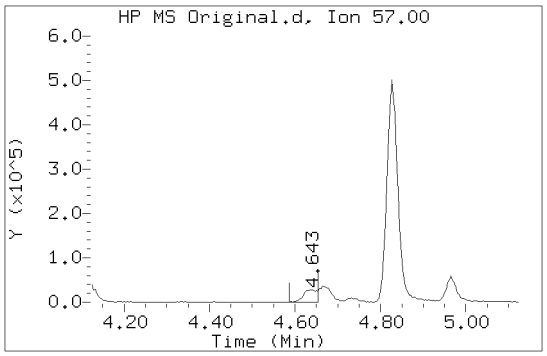

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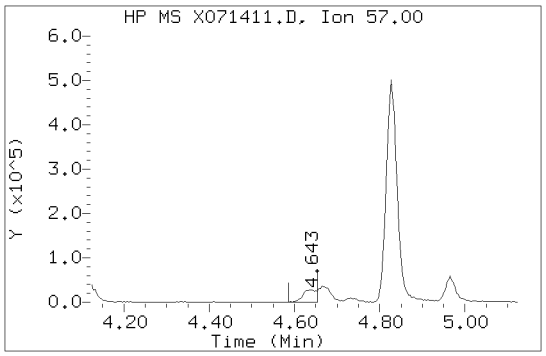

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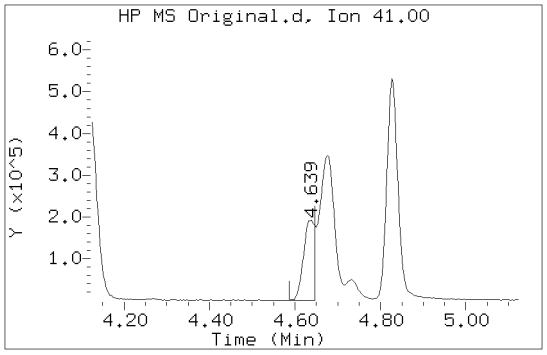

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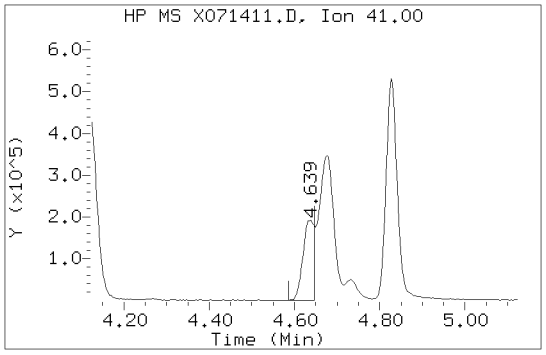

tert-Amyl methyl ether (974-05-08)

Reason Code:

BEFORE

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20-Jul-2023
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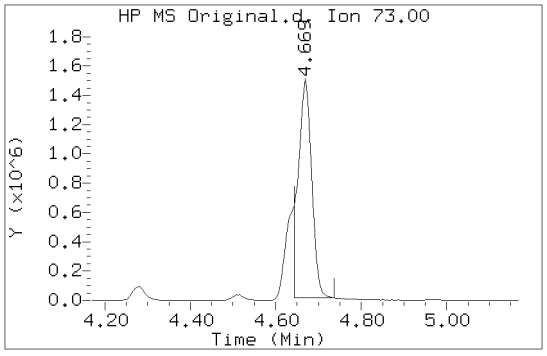

AFTER

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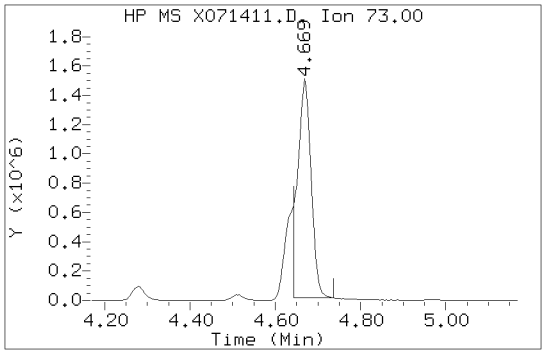

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Inj Date : 14-JUL-2023 15:25
InstruID : voa6.i
LabSampID : VSTD200

tert-Amyl methyl ether (974-05-08)

Reason Code:

BEFORE

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HEIGHT
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20-Jul-2023
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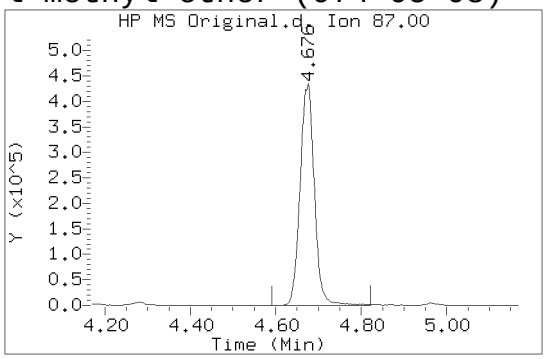

AFTER

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20-Jul-2023
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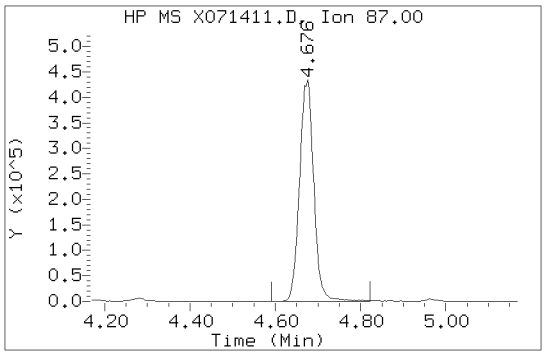

BEFORE

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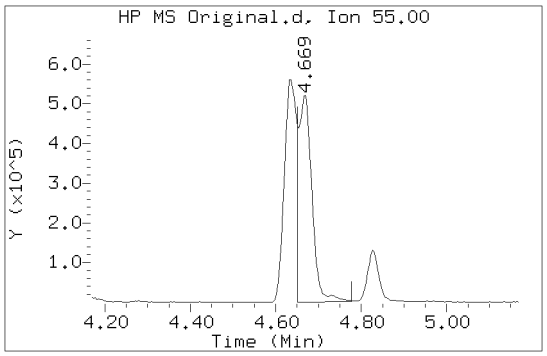

AFTER

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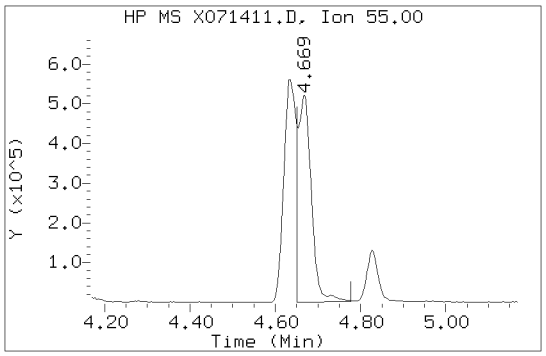

tert-Amyl alcohol (75-85-4)

Reason Code:

BEFORE

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HEIGHT
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20-Jul-2023
15:04
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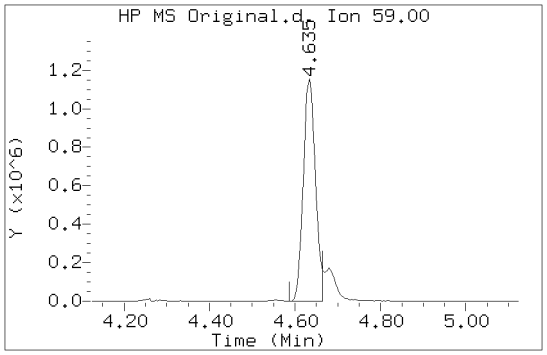

AFTER

MASS
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AREA
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20-Jul-2023
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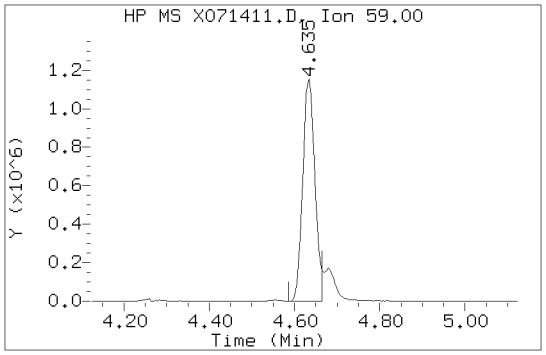

BEFORE

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20-Jul-2023
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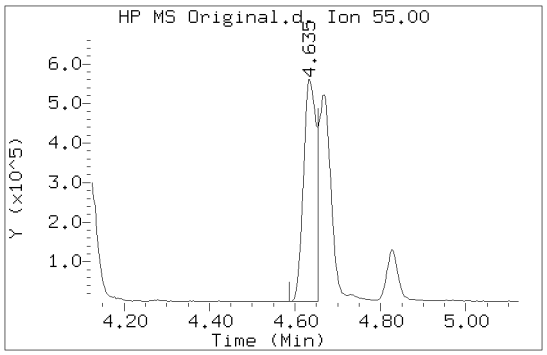

AFTER

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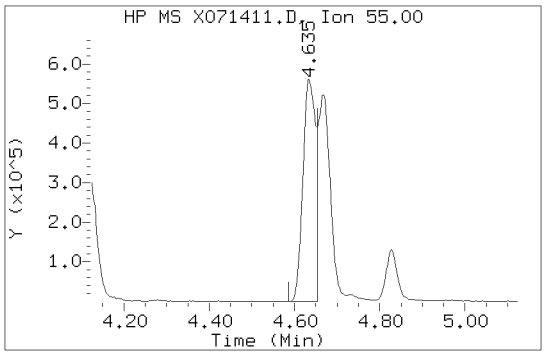

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Inj Date : 14-JUL-2023 15:25
InstruID : voa6.i
LabSampID : VSTD200

tert-Amyl alcohol (75-85-4)

Reason Code:

BEFORE

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20-Jul-2023
15:04
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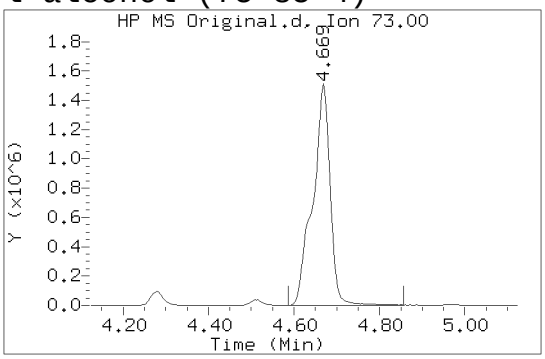

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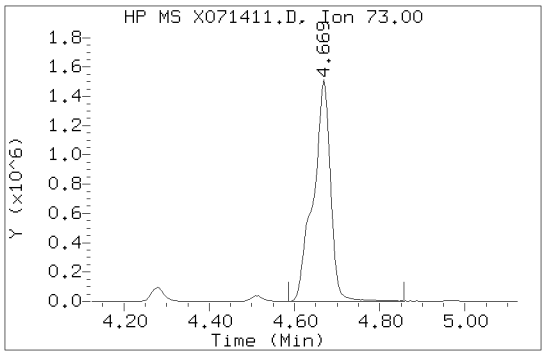

Acetaldehyde (75-07-0)

Reason Code:

BEFORE

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20-Jul-2023
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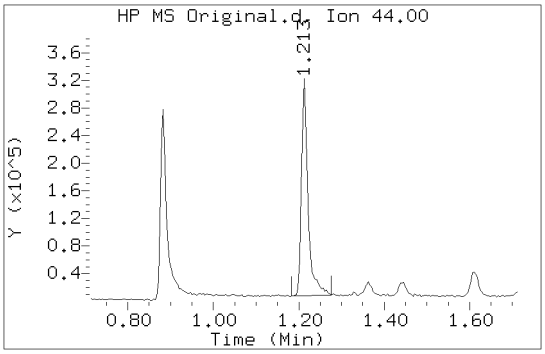

AFTER

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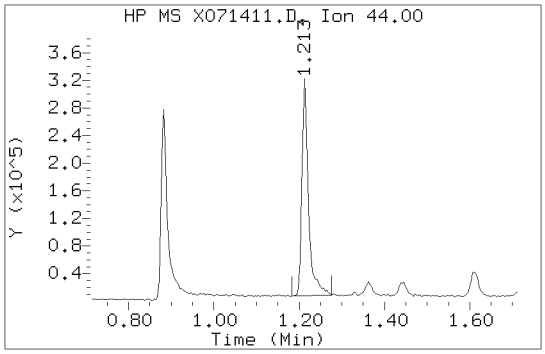

BEFORE

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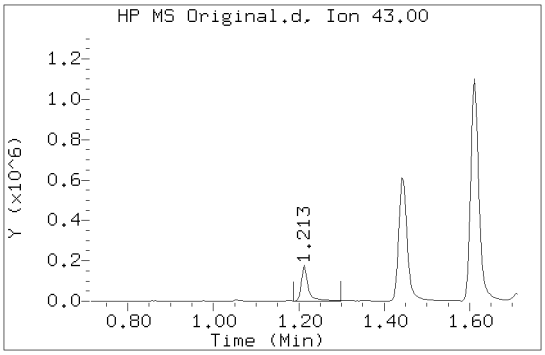

AFTER

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20-Jul-2023
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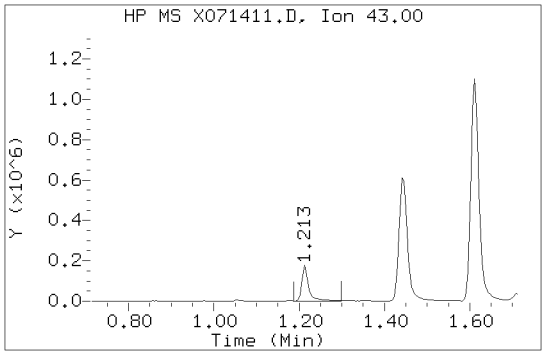

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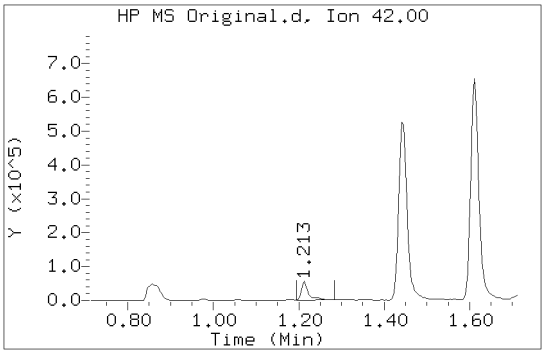

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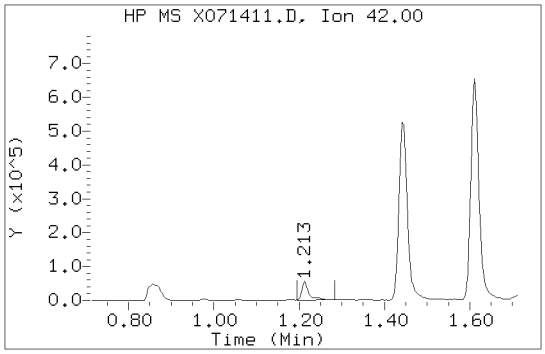

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Inj Date : 14-JUL-2023 15:25
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LabSampID : VSTD200

Isobutylene (115-11-7)

Reason Code:

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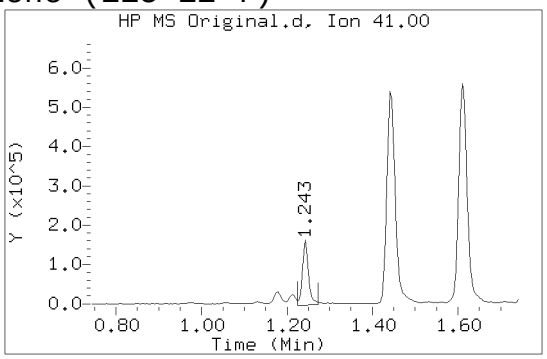

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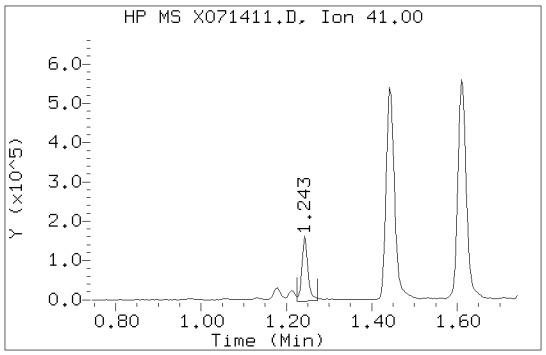

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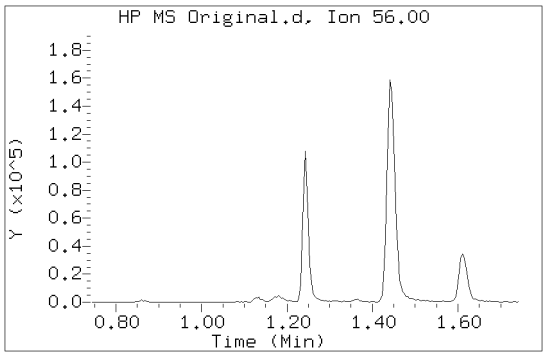

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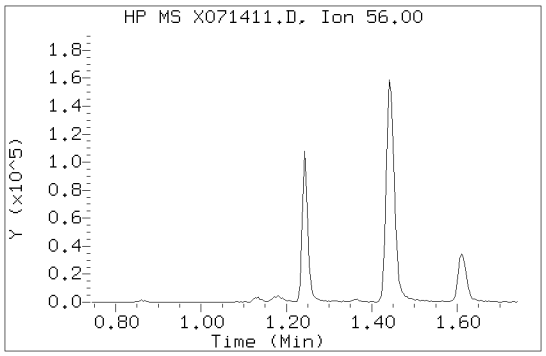

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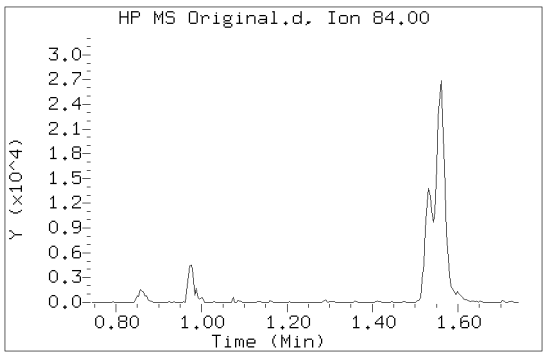

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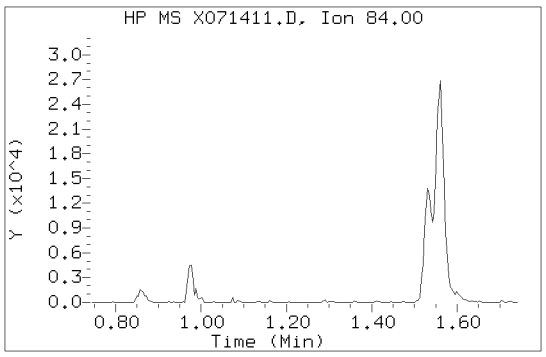

Toluene-d8 (2037-26-5)

Reason Code:

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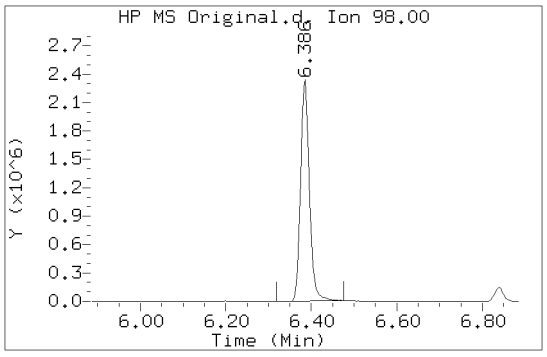

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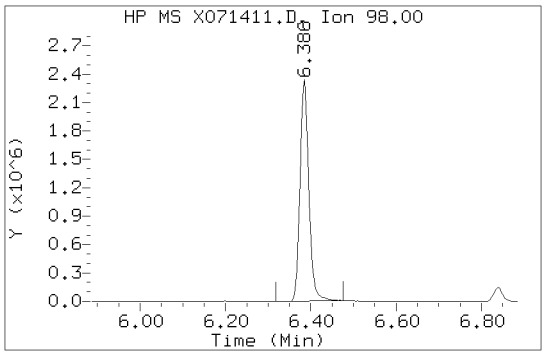

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Toluene-d8 (2037-26-5)

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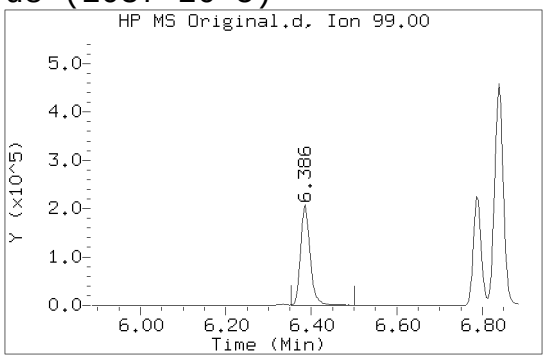

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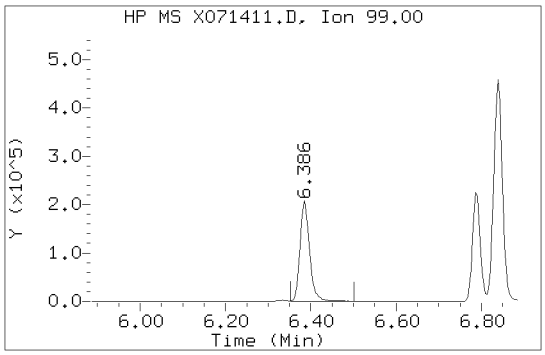

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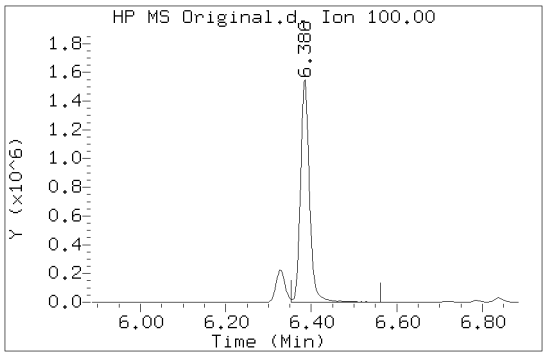

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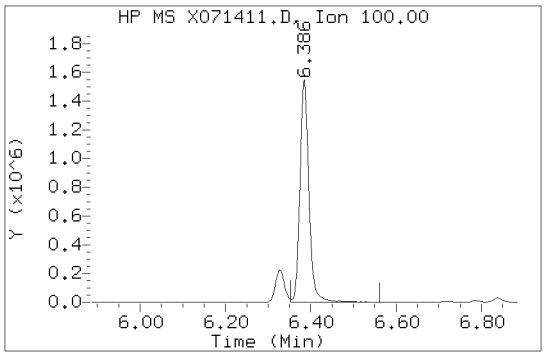

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Report Date: 20-Jul-2023 15:05

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230714.b\X071413.D
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Inj Date : 14-JUL-2023 16:06
Operator : PC Inst ID: voa6.i
Smp Info : CCV;CCV;2;;ICV
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230714.b\8260W.m
Meth Date : 20-Jul-2023 15:05 voa6.i Quant Type: ISTD
Cal Date : 14-JUL-2023 15:25 Cal File: X071411.D
Als bottle: 14 QC Sample: METHSPIKE
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.178	4.181	(1.000)	523560	50.0000	
2 Dichlorodifluoromethane	85	0.976	0.976	(0.234)	235700	44.1394	44.13
3 Chloromethane	50	1.081	1.081	(0.259)	369706	46.7515	46.75
4 Propionitrile	54	3.656	3.660	(0.875)	514137	495.730	495.72
5 Vinyl Chloride	62	1.145	1.145	(0.274)	314786	46.4622	46.46
6 Bromomethane	94	1.344	1.332	(0.322)	147749	52.6978	52.69
7 Chloroethane	64	1.404	1.400	(0.336)	174555	45.1318	45.13
8 Trichlorofluoromethane	101	1.561	1.561	(0.374)	321870	46.8787	46.87
9 Acrolein	56	1.857	1.857	(0.445)	18891	95.3394	95.33
10 Acetone	43	1.973	1.973	(0.472)	226282	109.688	109.68
11 1,1-Dichloroethene	96	1.913	1.913	(0.458)	173630	45.2674	45.26
12 Isobutyl Alcohol	43	4.680	4.680	(1.120)	1029947	1037.79	1037.79
13 Acetonitrile	39	2.202	2.198	(0.527)	350837	477.867	477.86
14 Allyl Chloride	41	2.198	2.198	(0.526)	795160	46.2587	46.25
15 Iodomethane	142	2.030	2.029	(0.486)	426627	85.2702	85.27
16 Acrylonitrile	53	2.536	2.535	(0.607)	247354	96.9514	96.95
17 Methylene Chloride	84	2.303	2.303	(0.551)	221542	48.9173	48.91
18 Methyl tert-butyl ether	73	2.539	2.535	(0.608)	686179	48.1012	48.10
19 Carbon Disulfide	76	2.071	2.071	(0.496)	1115788	92.5432	92.54
20 trans-1,2-Dichloroethene	96	2.528	2.528	(0.605)	201576	45.4331	45.43

21 Vinyl Acetate	43	3.000	3.000 (0.718)	1840684	100.315	100.31
22 1,1-Dichloroethane	63	2.918	2.922 (0.699)	455953	46.8308	46.83

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
	23 Chloroprene	53	1.771	1.771	(0.424)	106109	45.0742	45.07(M)
	24 2-Butanone	43	3.582	3.581	(0.857)	292924	105.060	105.06
	25 Methacrylonitrile	41	3.825	3.818	(0.916)	346558	51.2815	51.28(a)
	26 2,2-Dichloropropane	77	3.510	3.506	(0.840)	355659	47.0700	47.06
	27 cis-1,2-Dichloroethene	96	3.522	3.521	(0.843)	269347	47.6547	47.65
	28 Chloroform	83	3.904	3.904	(0.935)	458057	45.9797	45.97
	29 Bromochloromethane	128	3.795	3.791	(0.908)	150697	47.5755	47.57
$	30 Dibromofluoromethane	113	4.099	4.099	(0.981)	251919	52.5379	52.53
	31 1,1,1-Trichloroethane	97	4.076	4.080	(0.976)	356334	46.4653	46.46
	32 1,1-Dichloropropene	75	4.279	4.279	(0.862)	303929	45.5996	45.59
	33 1,2-Dichloroethane	62	4.552	4.552	(0.917)	426885	47.4578	47.45
	34 Carbon Tetrachloride	117	4.264	4.260	(0.859)	294766	43.8978	43.89
$	35 1,2-Dichloroethane-d4	65	4.474	4.470	(1.071)	312436	52.0928	52.09
*	36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	817135	50.0000	
	37 Benzene	78	4.511	4.511	(0.909)	922063	47.1756	47.17
	38 Trichloroethene	130	5.205	5.205	(1.048)	257816	46.6338	46.63
	39 Bromodichloromethane	83	5.722	5.722	(1.153)	352205	47.0449	47.04
	40 Methyl Methacrylate	41	5.606	5.606	(1.342)	307355	48.6390	48.63
	41 2-Chloroethylvinyl ether	63	6.044	6.048	(1.217)	236549	103.486	103.48
	42 1,2-Dichloropropane	63	5.433	5.437	(1.094)	308027	49.0106	49.01
	43 2-Nitropropane	43	5.966	5.969	(1.428)	100815	48.4694	48.46
	44 Dibromomethane	93	5.550	5.549	(1.118)	168843	47.4595	47.45
	45 4-Methyl-2-Pentanone	43	6.326	6.325	(0.825)	705887	96.7791	96.77
	46 cis-1,3-Dichloropropene	75	6.153	6.153	(1.239)	426551	49.6054	49.60
*	47 Chlorobenzene-d5	117	7.668	7.667	(1.000)	741203	50.0000	
$	48 Toluene-d8	98	6.382	6.385	(0.832)	919255	48.1696	48.16
	49 Ethyl Methacrylate	69	6.712	6.719	(1.352)	227813	42.5696	42.56
	50 Toluene	91	6.442	6.445	(0.840)	975883	48.9113	48.91
	51 trans-1,3-Dichloropropene	75	6.682	6.678	(1.346)	355856	49.0932	49.09
	52 2-Hexanone	43	7.086	7.086	(0.924)	481140	100.419	100.41
	53 1,1,2-Trichloroethane	83	6.835	6.839	(0.891)	205333	48.5132	48.51
	54 1,3-Dichloropropane	76	6.982	6.981	(0.911)	419059	48.4632	48.46
	55 Dibromochloromethane	129	7.173	7.173	(0.935)	311577	50.9926	50.99
	56 Tetrachloroethene	164	6.925	6.925	(0.903)	194514	47.1890	47.18
	57 1,2-Dibromoethane	107	7.259	7.259	(0.947)	231451	47.8539	47.85
	58 1-Chlorohexane	55	7.694	7.694	(1.550)	263762	40.1795	40.17
	59 Chlorobenzene	112	7.690	7.690	(1.003)	668608	47.9390	47.93
	60 1,1,1,2-Tetrachloroethane	131	7.772	7.772	(1.014)	267606	49.0109	49.01
	61 Ethylbenzene	106	7.795	7.799	(1.017)	323263	46.2211	46.22
	62 m,p-Xylenes	106	7.900	7.900	(1.030)	828056	94.3758	94.37
	63 o-Xylene	106	8.237	8.241	(1.074)	397534	47.8450	47.84
	64 Styrene	104	8.256	8.256	(1.077)	710304	49.0101	49.01
	66 Bromoform	173	8.406	8.406	(1.096)	197925	50.4868	50.48
	67 Isopropylbenzene	105	8.560	8.560	(1.116)	956821	44.8008	44.80
	68 1,1,2,2-Tetrachloroethane	83	8.837	8.837	(0.915)	331151	48.2326	48.23
$	69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	388935	52.7245	52.72
*	70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	408757	50.0000	
	71 1,2,3-Trichloropropane	75	8.863	8.863	(0.917)	262052	48.0990	48.09(M)
	72 trans-1,4-Dichloro-2-butene	53	8.886	8.886	(1.159)	119855	53.1678	53.16
	73 n-Propylbenzene	91	8.908	8.912	(0.922)	1109886	44.9330	44.93
	74 Bromobenzene	156	8.803	8.803	(0.911)	301361	47.1405	47.14
	75 1,3,5-Trimethylbenzene	105	9.062	9.066	(0.938)	826279	44.6531	44.65

76	2-Chlorotoluene	91	8.972	8.972 (0.929)	751134	45.0789	45.07
77	4-Chlorotoluene	91	9.070	9.069 (0.939)	862507	47.1055	47.10

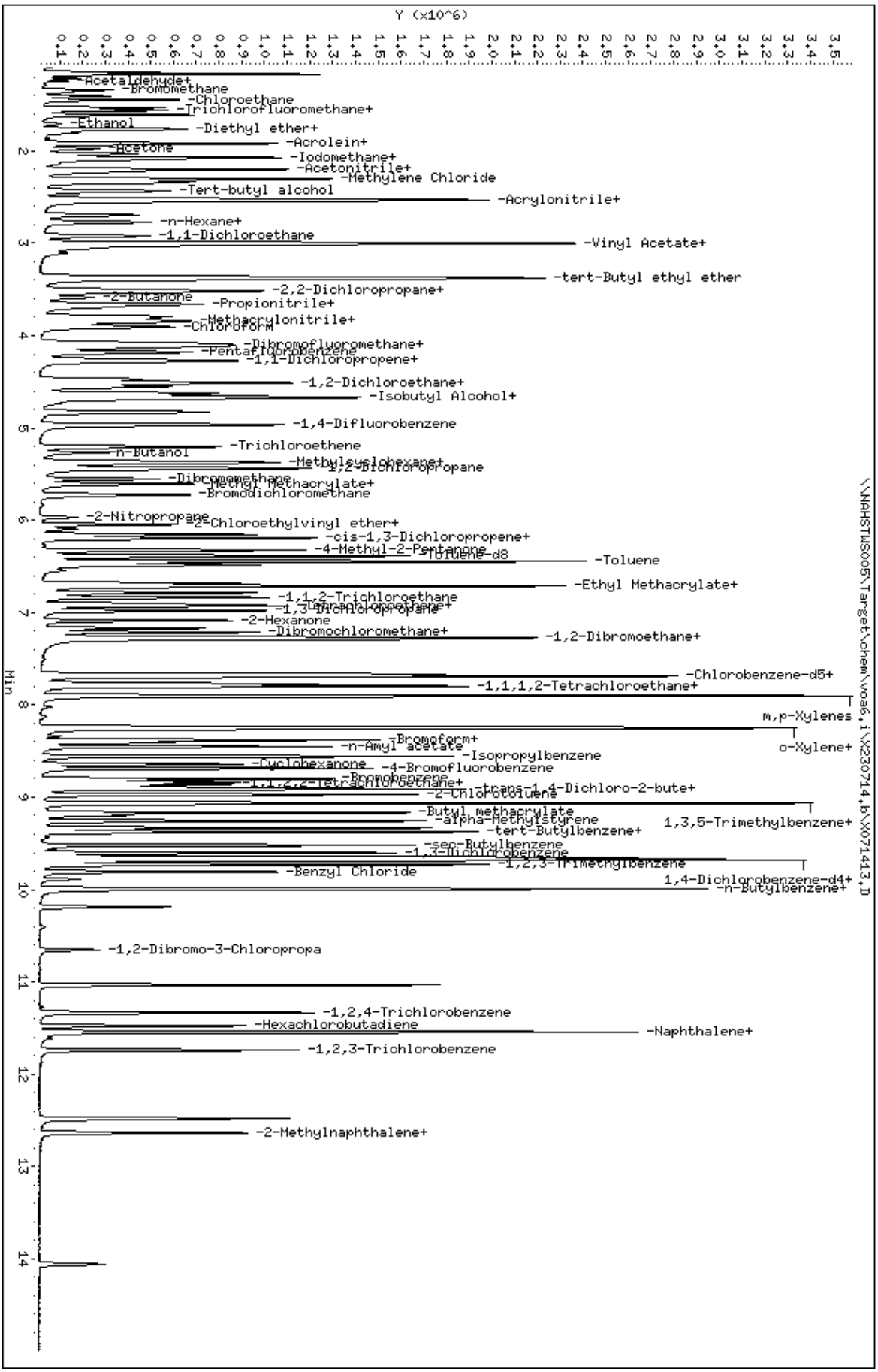
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)	
78	tert-Butylbenzene	119	9.332	9.336	(0.966)	675255	42.5524	42.55	
79	1,2,4-Trimethylbenzene	105	9.377	9.377	(0.971)	830881	44.7762	44.77	
81	sec-Butylbenzene	105	9.519	9.519	(0.985)	905955	42.8308	42.83	
82	p-Isopropyltoluene	119	9.647	9.647	(0.998)	820416	42.4603	42.46	
83	1,3-Dichlorobenzene	146	9.602	9.602	(0.994)	517212	46.4420	46.44	
84	1,4-Dichlorobenzene	146	9.681	9.680	(1.002)	560136	45.8733	45.87	
86	Benzyl Chloride	91	9.808	9.804	(1.279)	615356	48.8480	48.84	
87	n-Butylbenzene	91	9.992	9.992	(1.034)	697021	43.0724	43.07	
88	1,2-Dichlorobenzene	146	9.992	9.992	(1.034)	522905	47.7589	47.75	
89	1,2-Dibromo-3-Chloropropane	155	10.651	10.651	(1.102)	54433	48.2708	48.27	
90	1,2,4-Trichlorobenzene	180	11.334	11.334	(1.173)	326047	43.3575	43.35	
91	Hexachlorobutadiene	225	11.476	11.480	(1.188)	139858	40.8152	40.81	
92	Naphthalene	128	11.540	11.536	(1.194)	838509	45.0509	45.05	
93	1,2,3-Trichlorobenzene	180	11.739	11.738	(1.215)	302822	43.0586	43.05	
146	Methyl acetate	43	2.232	2.228	(0.534)	226459	48.6009	48.60	
138	Freon TF	101	1.917	1.917	(0.459)	164256	50.7362	50.73	
141	Cyclohexane	56	4.121	4.117	(0.987)	392805	43.2834	43.28	
142	Tetrahydrofuran	42	3.848	3.851	(0.921)	129569	96.1946	96.19	
147	Methylcyclohexane	55	5.381	5.381	(1.084)	818352	47.4476	47.44	
135	1,4-Dioxane	88	5.602	5.602	(1.341)	61482	988.216	988.21	
132	n-Butanol	56	5.261	5.261	(1.259)	170908	980.599	980.59	
131	Methyl Acrylate	55	3.690	3.686	(0.883)	366966	51.5629	51.56	
133	Ethyl Acrylate	55	5.381	5.381	(1.288)	818352	47.1623	47.16	
136	n-Hexane	57	2.772	2.768	(0.664)	239027	47.2779	47.27	
139	Diethyl ether	59	1.760	1.760	(0.421)	234998	48.1340	48.13	
148	Tert-butyl alcohol	59	2.434	2.442	(0.583)	626708	948.402	948.40	
149	Isopropyl alcohol	45	2.093	2.101	(0.501)	377497	920.653	920.65	
156	Diisopropyl ether	45	3.004	3.008	(0.719)	1037147	48.0634	48.06	
166	1,2,3-Trimethylbenzene	105	9.729	9.729	(1.007)	913282	48.3344	48.33	
167	Ethanol	45	1.703	1.711	(0.408)	74613	1019.42	1019.41	
172	tert-Butyl formate	59	4.627	4.635	(1.108)	507413	90.7266	90.72	
173	3,3-Dimethyl-1-butanol	57	7.285	7.293	(0.950)	688113	863.240	863.23	
174	tert-Amyl methyl ether	73	4.669	4.668	(1.118)	862678	50.0877	50.08	
175	tert-Butyl ethyl ether	59	3.379	3.379	(0.809)	1050302	47.3858	47.38	
176	tert-Amyl alcohol	59	4.627	4.635	(1.108)	507413	887.155	887.15	
151	4-Methyl-2-pentanol	45	6.712	6.715	(1.352)	1515654	865.514	865.51	
180	1-Methylnaphthalene	142	12.634	12.631	(1.308)	384606			(a)
140	1,3-Butadiene	54	1.167	1.167	(0.280)	301891	44.8739	44.87	
152	Amyl alcohol	42	6.903	6.903	(0.900)	195847	918.818	918.81	
158	Dichlorofluoromethane	67	1.531	1.531	(0.367)	380825	45.1447	45.14	
159	Propylene oxide	43	1.805	1.805	(0.432)	61412	95.6112	95.61	
161	3-Methyl-1-butanol	55	6.903	6.903	(0.900)	186846	1023.91	1023.90	
162	Butyl acrylate	55	8.249	8.248	(1.076)	731306	51.8619	51.86	
163	Butyl methacrylate	41	9.167	9.171	(0.949)	489010	49.9457	49.94	
164	Dicyclopentadiene	66	9.681	9.684	(1.002)	1106669	47.0024	47.00	
182	Epichlorohydrin	57	6.093	6.093	(1.227)	124324	203.690	203.69	
M 94	1,2-Dichloroethylene (total)	96				470923	93.0878	93.08	
M 95	Xylenes (total)	106				1225590	142.221	142.22	
145	alpha-Methylstyrene	118	9.257	9.257	(0.958)	409265	45.8929	45.89	
130	Ethyl Acetate	43	3.660	3.660	(0.876)	382709	49.2142	49.21	
134	Cyclohexanone	55	8.642	8.642	(0.894)	353883	972.476	972.47	
185	Isoprene	39	1.771	1.771	(0.424)	82361	47.7228	47.72	

188 Isopropyl acetate	43	4.680	4.680 (0.943)	1029947	47.8043	47.80
187 n-Amyl acetate	43	8.451	8.451 (1.102)	635386	46.7743	46.77

						CONCENTRATIONS	
	QUANT SIG					ON-COLUMN	FINAL
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/l)	(ug/l)
189 n-Butyl acetate	43	7.214	7.210	(0.941)	567096	49.9183	49.91(H)
150 Allyl alcohol	57	2.772	2.768	(0.664)	239027	945.764	945.76
194 Acetaldehyde	44	1.212	1.212	(0.290)	96727	206.571	206.57
195 Methyl Amyl Ketone	43	8.380	8.380	(1.093)	761129	49.1308	49.13
200 Dimethyl Disulfide	94	6.194	6.198	(0.808)	522553	52.2664	52.26
202 Isobutylene	41	1.242	1.242	(0.297)	41486	47.9266	47.92(M)
205 2-Ethylhexyl Acrylate	55	11.547	11.547	(1.195)	553935	53.0575	53.05

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.



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Date : 14-JUL-2023 16:06
Client ID: ICV
Sample Info: CCV;CCV;2;;ICV
Purge Volume: 5.0
Column phase: DB624

Instrument: voa6.i
Operator: PC
Column diameter: 0.18

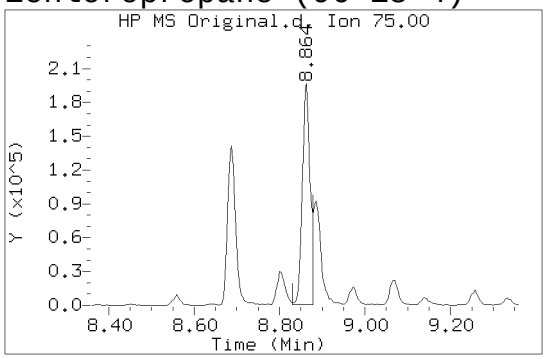
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230714.b\X071413.D
Inj Date : 14-JUL-2023 16:06
InstruID : voa6.i
LabSampID : ICV

1,2,3-Trichloropropane (96-18-4)

Reason Code:

BEFORE

MASS
75
AREA
262052
HEIGHT
195933
20-Jul-2023
15:04
linh
pham



AFTER

MASS
75
AREA
262052
HEIGHT
195933
20-Jul-2023
15:04
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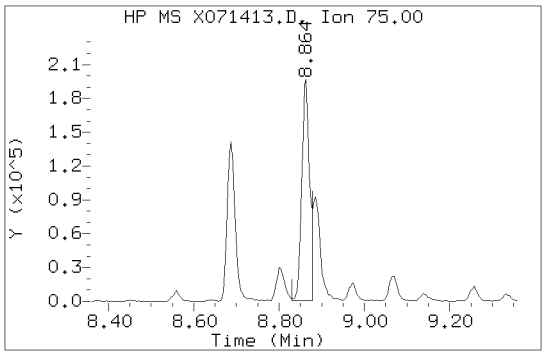
pham



BEFORE

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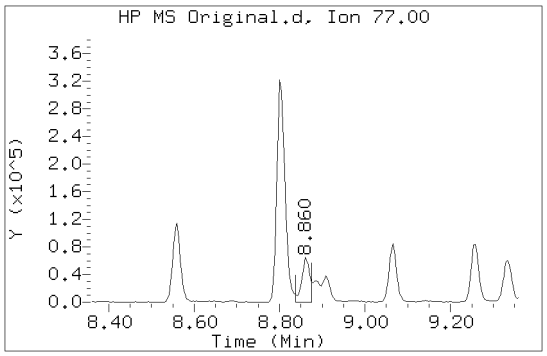
pham



AFTER

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20-Jul-2023
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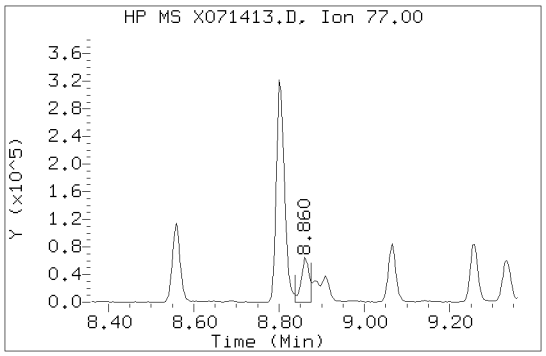

Chloroprene (126-99-8)

Reason Code:

BEFORE

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AREA
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HEIGHT
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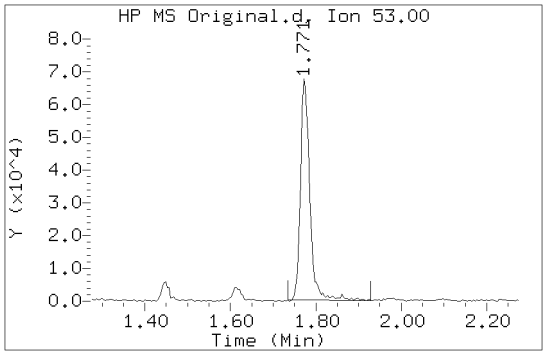
20-Jul-2023
15:04
linh
pham



AFTER

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AREA
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HEIGHT
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20-Jul-2023
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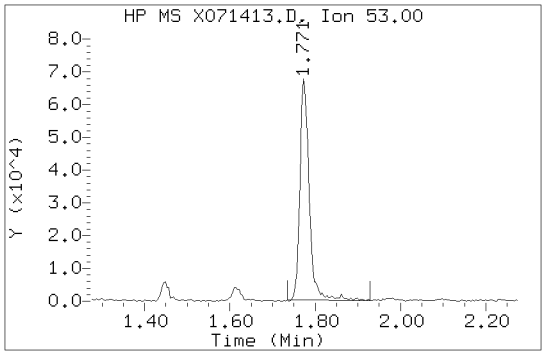

BEFORE

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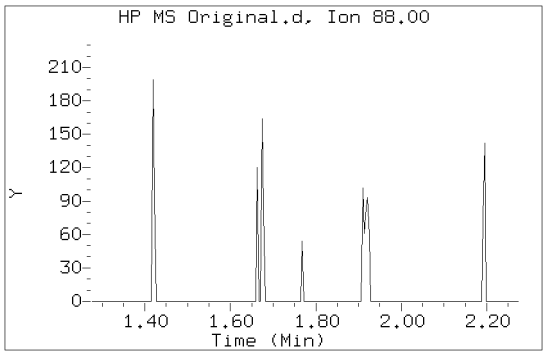

AFTER

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20-Jul-2023
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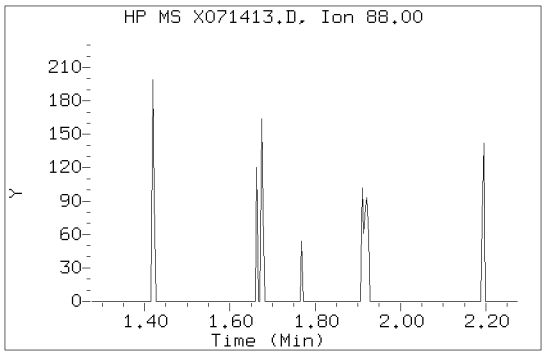

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Inj Date : 14-JUL-2023 16:06
InstruID : voa6.i
LabSampID : ICV

Isobutylene (115-11-7)

Reason Code:

BEFORE

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AREA
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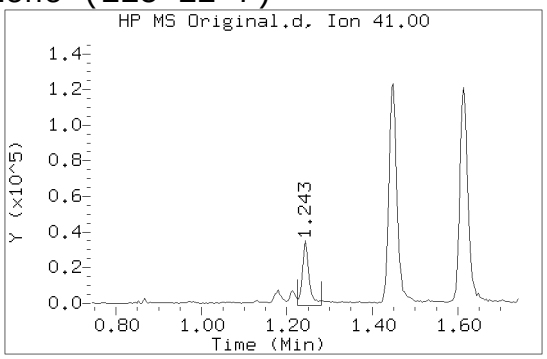
HEIGHT
36200
20-Jul-2023
15:04
linh
pham



AFTER

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AREA
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HEIGHT
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20-Jul-2023
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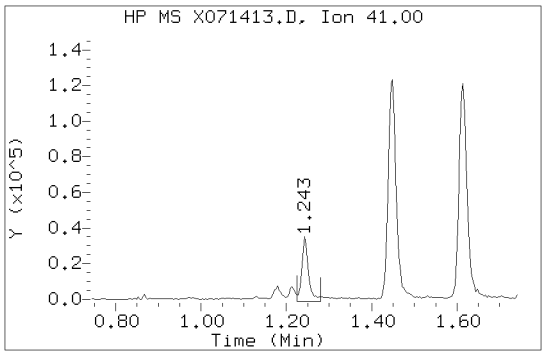

BEFORE

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20-Jul-2023
15:04
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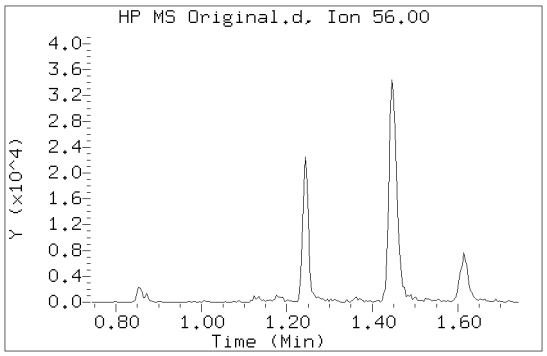
pham



AFTER

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20-Jul-2023
15:04
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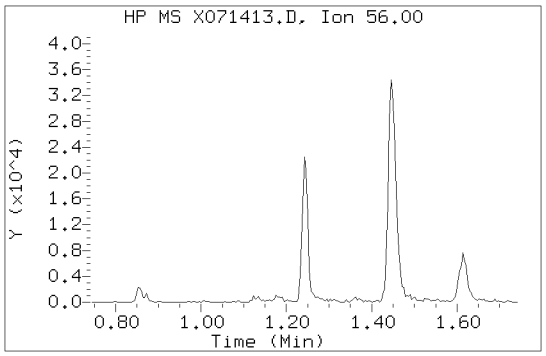

BEFORE

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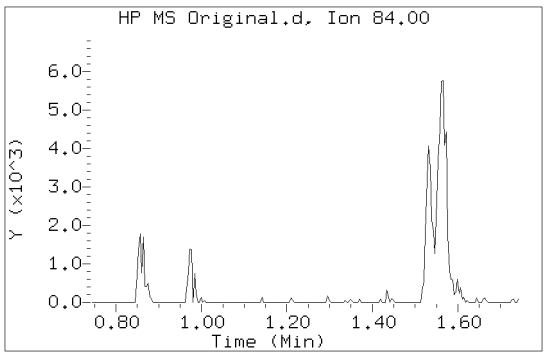
20-Jul-2023
15:04
linh
pham



AFTER

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AREA
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HEIGHT
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20-Jul-2023
15:04
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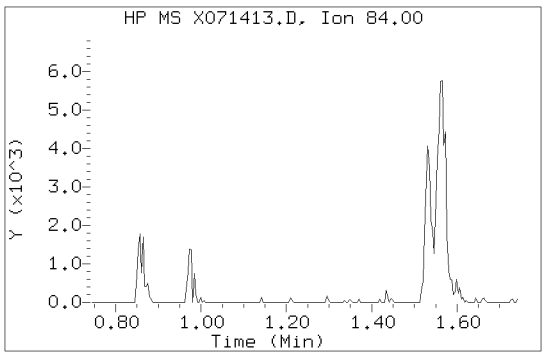

01319789

right solutions.
right partner.

Raw Data VOA6 441458

Volatiles by EPA 8260

Workorder

HS23070546

Client

Bhate Environmental Associates, Inc.

Project

LHAAP Site 16

07/25/2023

ALS Environmental–Houston Laboratory

10450 Stancliff Road, Suite 210, Houston, TX 77099

Phone (281) 530-5656 Fax (281) 530-5887

www.alsglobal.com

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230714.b\Y071401.D Page 1
Report Date: 16-Jul-2023 20:55

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230714.b\Y071401.D
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 14-JUL-2023 17:07
Operator : PC Inst ID: voa6.i
Smp Info : BFB;BFB;3;;BFB
Misc Info : V6;WATER;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\voa6.i\X230714.b\bfb.m
Meth Date : 14-Mar-2023 15:45 Linh.Pham Quant Type: ISTD
Cal Date : Cal File:
Als bottle: 17 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: NAHSTW7051

Concentration Formula: Amt * DF * Uf * Vf * Vi * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vf	1.000	Volumetric correction factor
Vi	2.000	Injection Volume
Cpnd Variable		Local Compound Variable

					CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/l)	TARGET RANGE	RATIO
RT	EXP RT	REL RT	MASS	RESPONSE				
1 bfb							CAS #: 460-00-4	
8.687	8.889	(0.000)	95	262720			0.00- 100.00	100.00
8.687	8.889	(0.000)	50	56640			15.00- 40.00	21.56
8.687	8.889	(0.000)	75	115296			30.00- 60.00	43.89
8.687	8.889	(0.000)	96	16520			5.00- 9.00	6.29
8.687	8.889	(0.000)	173	3384			0.00- 2.00	1.58
8.687	8.889	(0.000)	174	214784			50.00- 0.00	81.75
8.687	8.889	(0.000)	175	16872			5.00- 9.00	7.86
8.687	8.889	(0.000)	176	206208			95.00- 101.00	96.01
8.687	8.889	(0.000)	177	15420			5.00- 9.00	7.48

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	21.56
75	30.00 - 60.00% of mass 95	43.89
96	5.00 - 9.00% of mass 95	6.29
173	Less than 2.00% of mass 174	1.29 (1.58)
174	Greater than 50.00% of mass 95	81.75
175	5.00 - 9.00% of mass 174	6.42 (7.86)
176	95.00 - 101.00% of mass 174	78.49 (96.01)
177	5.00 - 9.00% of mass 176	5.87 (7.48)

Data File: Y071401.D
Spectrum: Scan 2161 (8.69)
Location of Maximum: 95.00
Number of points: 118

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36.00	2396	67.10	454	98.90	111	141.00	2618
37.00	12754	68.10	24040	103.10	371	141.80	226
38.10	11610	69.00	24168	103.90	1226	142.80	1857
39.10	4906	70.20	2879	104.70	629	144.80	159
40.00	3264	71.20	102	106.00	1241	145.90	253
41.00	2041	72.00	1406	106.80	720	146.60	192
42.10	2866	73.10	12365	107.80	98	147.70	620
43.10	1865	74.00	39112	108.70	434	148.00	715
43.90	2417	75.00	115296	110.80	199	149.20	144
45.00	2931	76.00	10168	111.80	59	152.70	171
45.90	143	76.90	1307	112.80	177	154.00	254
47.10	5030	77.80	575	114.80	357	154.80	477
48.00	2260	78.90	5607	115.90	1039	156.00	171
49.00	13203	80.00	1531	117.00	1241	157.00	390
50.00	56640	80.90	5096	117.80	718	158.80	516
51.10	19104	81.90	1381	118.90	922	160.70	489
52.00	681	83.00	482	121.20	68	169.60	72
53.10	304	84.10	82	122.00	76	170.20	126
54.10	651	86.00	400	123.00	180	170.80	72
55.00	3562	86.90	10719	125.00	59	173.10	3384
56.00	5678	88.00	9896	126.20	54	174.00	214784
57.00	7977	88.80	159	126.70	151	175.00	16872
57.90	500	91.00	966	127.90	1548	176.00	206208
59.00	190	92.00	6116	129.10	287	177.00	15420
60.00	3946	93.00	9275	129.70	515	177.90	722
61.00	12414	94.00	24056	130.00	534	205.70	109
62.00	12508	95.00	262720	130.80	304	236.00	277
63.00	9089	96.10	16520	134.90	476	262.20	82
64.00	884	96.90	256	136.90	612		
64.90	382	98.10	1156	138.90	114		

Data File: \\nahstws005\target\chem\voa6.i\x230714.b\y071401.d Page 1

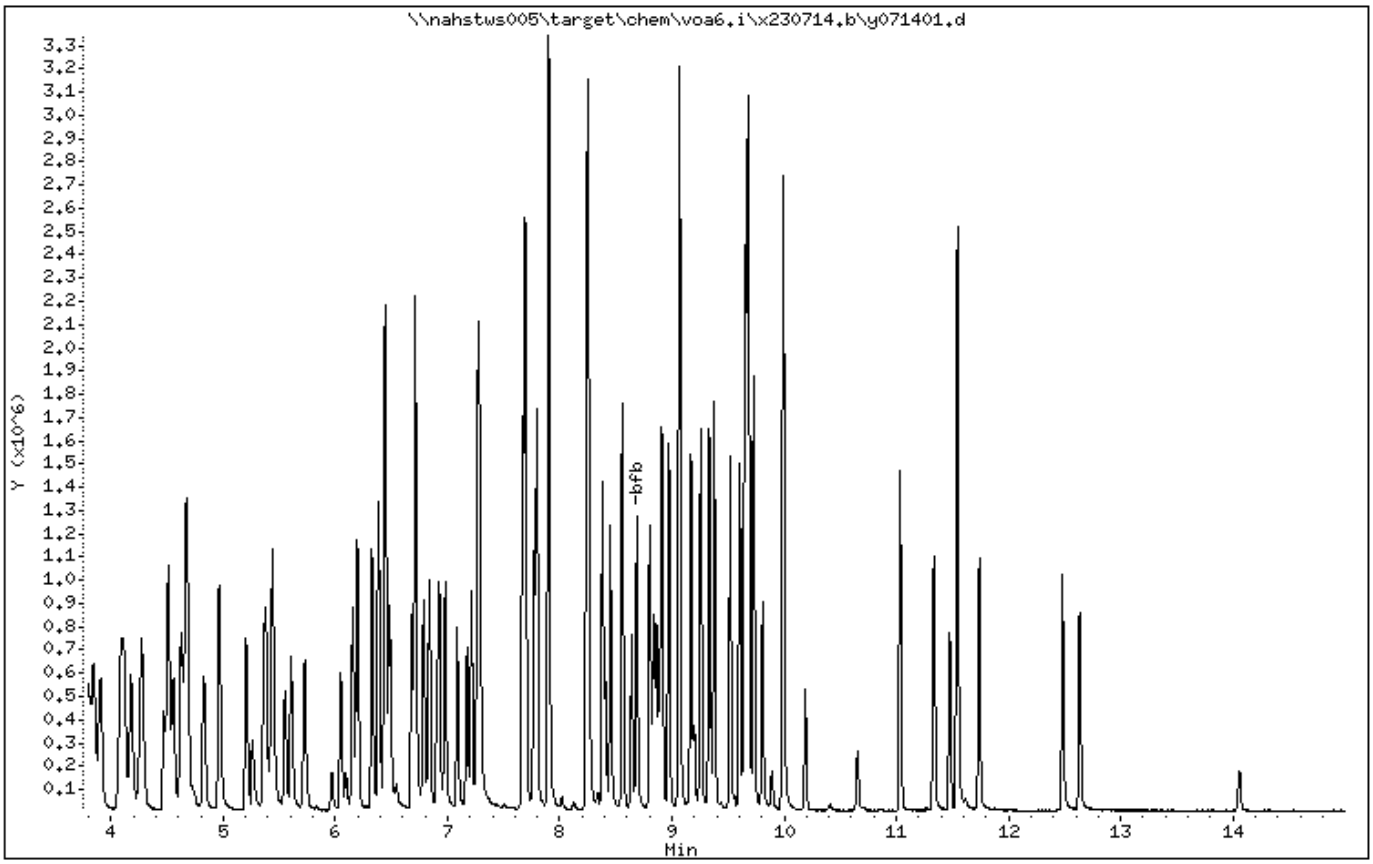
Date : 14-JUL-2023 17:07

Client ID: BFB Instrument: voa6.i

Sample Info: BFB;BFB;3;;BFB

Volume Injected (uL): 2.0 Operator: PC

Column phase: DB624 Column diameter: 0.25



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Inj Date : 14-JUL-2023 17:07
InstruID : voa6.i
LabSampID : BFB

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230714.b\Y071403.D Page 1
Report Date: 20-Jul-2023 15:05

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230714.b\Y071403.D
Lab Smp Id: CCV Client Smp ID: CCV
Inj Date : 14-JUL-2023 17:48
Operator : PC Inst ID: voa6.i
Smp Info : CCV;CCV;2;;
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230714.b\8260W.m
Meth Date : 20-Jul-2023 15:05 voa6.i Quant Type: ISTD
Cal Date : 14-JUL-2023 15:25 Cal File: X071411.D
Als bottle: 19 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1 Pentafluorobenzene	168	4.178	4.178	(1.000)	512075	50.0000	
2 Dichlorodifluoromethane	85	0.976	0.976	(0.234)	264078	50.0000	50.40
3 Chloromethane	50	1.081	1.081	(0.259)	405778	50.0000	52.46
4 Propionitrile	54	3.657	3.657	(0.875)	503919	500.000	496.77
5 Vinyl Chloride	62	1.145	1.145	(0.274)	331579	50.0000	50.03
6 Bromomethane	94	1.344	1.344	(0.322)	144864	50.0000	52.82
7 Chloroethane	64	1.407	1.407	(0.337)	181479	50.0000	47.97
8 Trichlorofluoromethane	101	1.565	1.565	(0.375)	339550	50.0000	50.56
9 Acrolein	56	1.861	1.861	(0.446)	18711	100.000	96.53
10 Acetone	43	1.973	1.973	(0.472)	216610	100.000	107.25
11 1,1-Dichloroethene	96	1.917	1.917	(0.459)	193162	50.0000	51.48
12 Isobutyl Alcohol	43	4.680	4.680	(1.120)	994892	1000.00	1024.95
13 Acetonitrile	39	2.198	2.198	(0.526)	343194	500.000	477.94
14 Allyl Chloride	41	2.198	2.198	(0.526)	776265	50.0000	46.17
15 Iodomethane	142	2.030	2.030	(0.486)	484340	100.000	98.01
16 Acrylonitrile	53	2.532	2.532	(0.606)	242077	100.000	97.01
17 Methylene Chloride	84	2.307	2.307	(0.552)	229563	50.0000	51.90
18 Methyl tert-butyl ether	73	2.536	2.536	(0.607)	675003	50.0000	48.37
19 Carbon Disulfide	76	2.071	2.071	(0.496)	1193052	100.000	101.17
20 trans-1,2-Dichloroethene	96	2.528	2.528	(0.605)	215497	50.0000	49.66

21 Vinyl Acetate	43	3.001	3.001 (0.718)	1792097	100.000	99.85
22 1,1-Dichloroethane	63	2.922	2.922 (0.699)	474754	50.0000	49.85

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	23 Chloroprene	53	1.775	1.775	(0.425)	111803	50.0000	48.55(M)
	24 2-Butanone	43	3.585	3.585	(0.858)	283917	100.000	104.11
	25 Methacrylonitrile	41	3.821	3.821	(0.915)	337956	50.0000	51.13(a)
	26 2,2-Dichloropropane	77	3.507	3.507	(0.839)	374233	50.0000	50.62
	27 cis-1,2-Dichloroethene	96	3.529	3.529	(0.845)	276327	50.0000	49.98
	28 Chloroform	83	3.904	3.904	(0.935)	469577	50.0000	48.19
	29 Bromochloromethane	128	3.795	3.795	(0.908)	152911	50.0000	49.35
$	30 Dibromofluoromethane	113	4.099	4.099	(0.981)	243064	50.0000	51.81
	31 1,1,1-Trichloroethane	97	4.080	4.080	(0.977)	387316	50.0000	51.63
	32 1,1-Dichloropropene	75	4.275	4.275	(0.861)	326298	50.0000	50.38
	33 1,2-Dichloroethane	62	4.556	4.556	(0.918)	435849	50.0000	49.87
	34 Carbon Tetrachloride	117	4.264	4.264	(0.859)	316903	50.0000	48.57
$	35 1,2-Dichloroethane-d4	65	4.470	4.470	(1.070)	298532	50.0000	50.87
*	36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	793930	50.0000	
	37 Benzene	78	4.511	4.511	(0.909)	965742	50.0000	50.85
	38 Trichloroethene	130	5.205	5.205	(1.048)	273096	50.0000	50.84
	39 Bromodichloromethane	83	5.726	5.726	(1.153)	357435	50.0000	49.13
	40 Methyl Methacrylate	41	5.606	5.606	(1.342)	305272	50.0000	49.39
	41 2-Chloroethylvinyl ether	63	6.048	6.048	(1.218)	235729	100.000	106.14
	42 1,2-Dichloropropane	63	5.433	5.433	(1.094)	311609	50.0000	51.02
	43 2-Nitropropane	43	5.969	5.969	(1.429)	97249	50.0000	47.80
	44 Dibromomethane	93	5.550	5.550	(1.118)	169568	50.0000	49.05
	45 4-Methyl-2-Pentanone	43	6.326	6.326	(0.825)	683801	100.000	96.14
	46 cis-1,3-Dichloropropene	75	6.153	6.153	(1.239)	419323	50.0000	50.19
*	47 Chlorobenzene-d5	117	7.668	7.668	(1.000)	722724	50.0000	
$	48 Toluene-d8	98	6.382	6.382	(0.832)	893583	50.0000	48.02
	49 Ethyl Methacrylate	69	6.712	6.712	(1.352)	229238	50.0000	44.08
	50 Toluene	91	6.442	6.442	(0.840)	1011073	50.0000	51.97
	51 trans-1,3-Dichloropropene	75	6.678	6.678	(1.345)	355953	50.0000	50.54
	52 2-Hexanone	43	7.087	7.087	(0.924)	459569	100.000	98.36
	53 1,1,2-Trichloroethane	83	6.839	6.839	(0.892)	208333	50.0000	50.48
	54 1,3-Dichloropropane	76	6.982	6.982	(0.911)	413629	50.0000	49.05
	55 Dibromochloromethane	129	7.173	7.173	(0.935)	302922	50.0000	50.84
	56 Tetrachloroethene	164	6.925	6.925	(0.903)	205578	50.0000	51.14
	57 1,2-Dibromoethane	107	7.259	7.259	(0.947)	226710	50.0000	48.07
	58 1-Chlorohexane	55	7.694	7.694	(1.550)	296345	50.0000	46.46
	59 Chlorobenzene	112	7.690	7.690	(1.003)	686439	50.0000	50.47
	60 1,1,1,2-Tetrachloroethane	131	7.769	7.769	(1.013)	274567	50.0000	51.57
	61 Ethylbenzene	106	7.795	7.795	(1.017)	343517	50.0000	50.37
	62 m,p-Xylenes	106	7.900	7.900	(1.030)	895156	100.000	104.63
	63 o-Xylene	106	8.237	8.237	(1.074)	417214	50.0000	51.49
	64 Styrene	104	8.256	8.256	(1.077)	739991	50.0000	52.36
	66 Bromoform	173	8.406	8.406	(1.096)	200006	50.0000	52.32
	67 Isopropylbenzene	105	8.556	8.556	(1.116)	1056277	50.0000	50.72
	68 1,1,2,2-Tetrachloroethane	83	8.837	8.837	(0.915)	328245	50.0000	49.16
$	69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	375036	50.0000	52.13
*	70 1,4-Dichlorobenzene-d4	152	9.658	9.658	(1.000)	397495	50.0000	
	71 1,2,3-Trichloropropane	75	8.860	8.860	(0.917)	261635	50.0000	49.38(M)
	72 trans-1,4-Dichloro-2-butene	53	8.886	8.886	(1.159)	114967	50.0000	52.30
	73 n-Propylbenzene	91	8.908	8.908	(0.922)	1229592	50.0000	51.18
	74 Bromobenzene	156	8.803	8.803	(0.912)	319858	50.0000	51.45
	75 1,3,5-Trimethylbenzene	105	9.062	9.062	(0.938)	894598	50.0000	49.71

76	2-Chlorotoluene	91	8.972	8.972 (0.929)	802991	50.0000	49.55
77	4-Chlorotoluene	91	9.066	9.066 (0.939)	920023	50.0000	51.67

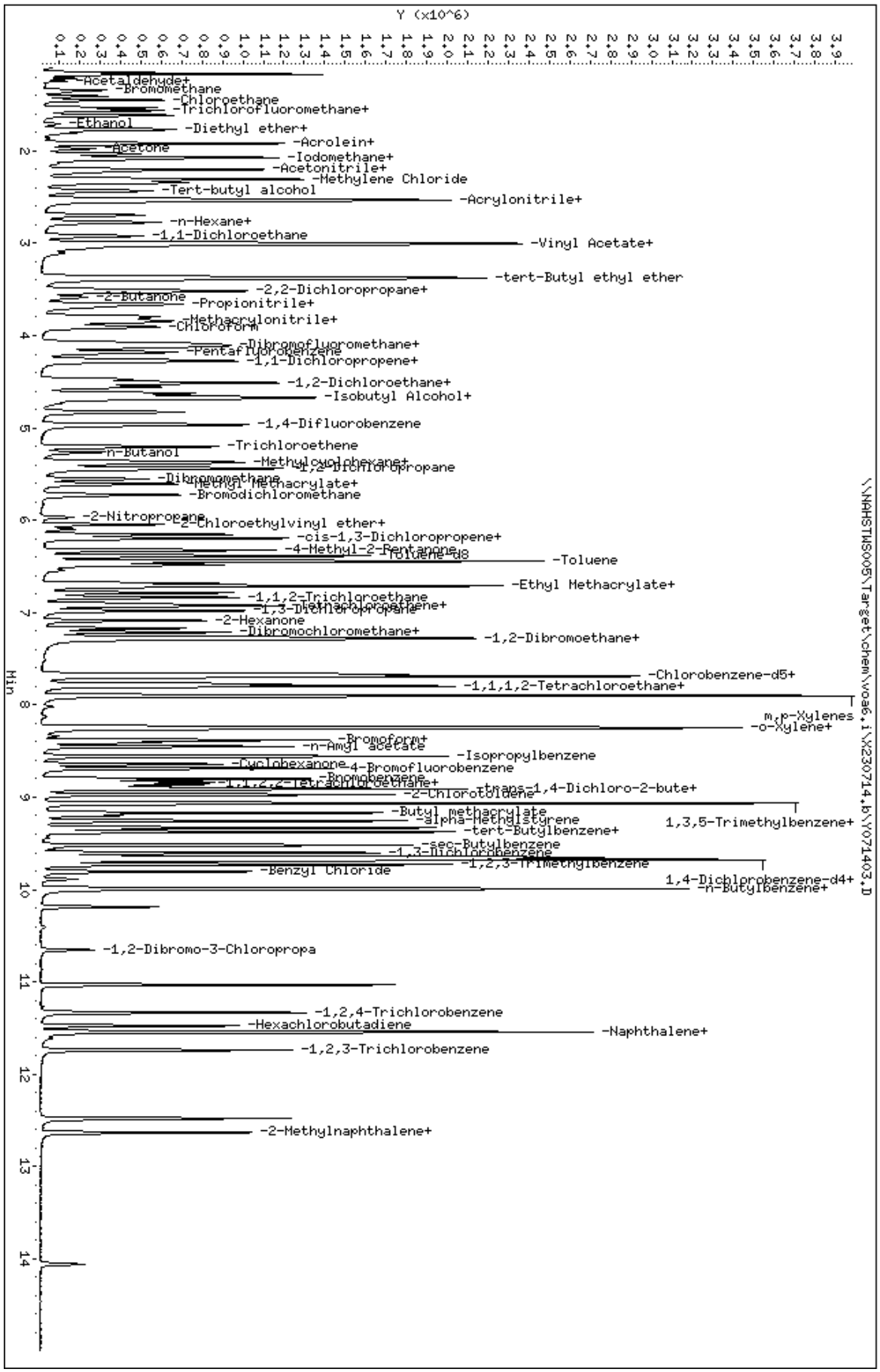
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)	
78	tert-Butylbenzene	119	9.332	9.332	(0.966)	765691	50.0000	49.61	
79	1,2,4-Trimethylbenzene	105	9.377	9.377	(0.971)	894952	50.0000	49.59	
81	sec-Butylbenzene	105	9.519	9.519	(0.986)	1039096	50.0000	50.51	
82	p-Isopropyltoluene	119	9.647	9.647	(0.999)	940760	50.0000	50.06	
83	1,3-Dichlorobenzene	146	9.602	9.602	(0.994)	559566	50.0000	51.66	
84	1,4-Dichlorobenzene	146	9.681	9.681	(1.002)	594033	50.0000	50.02	
86	Benzyl Chloride	91	9.804	9.804	(1.279)	581871	50.0000	47.44	
87	n-Butylbenzene	91	9.992	9.992	(1.035)	783800	50.0000	49.80	
88	1,2-Dichlorobenzene	146	9.988	9.988	(1.034)	539486	50.0000	50.66	
89	1,2-Dibromo-3-Chloropropane	155	10.655	10.655	(1.103)	50842	50.0000	46.40	
90	1,2,4-Trichlorobenzene	180	11.334	11.334	(1.173)	337057	50.0000	46.09	
91	Hexachlorobutadiene	225	11.476	11.476	(1.188)	155266	50.0000	46.26	
92	Naphthalene	128	11.540	11.540	(1.195)	847697	50.0000	46.83	
93	1,2,3-Trichlorobenzene	180	11.739	11.739	(1.215)	324363	50.0000	47.42	
146	Methyl acetate	43	2.232	2.232	(0.534)	222006	50.0000	48.71	
138	Freon TF	101	1.917	1.917	(0.459)	182703	50.0000	56.58	
141	Cyclohexane	56	4.121	4.121	(0.987)	454262	50.0000	51.17	
142	Tetrahydrofuran	42	3.851	3.851	(0.922)	125557	100.000	95.30	
147	Methylcyclohexane	55	5.381	5.381	(1.084)	797404	50.0000	47.58	
135	1,4-Dioxane	88	5.602	5.602	(1.341)	56487	1000.00	928.29	
132	n-Butanol	56	5.261	5.261	(1.259)	160680	1000.00	942.59	
131	Methyl Acrylate	55	3.690	3.690	(0.883)	347467	50.0000	49.91	
133	Ethyl Acrylate	55	5.381	5.381	(1.288)	797404	50.0000	46.98	
136	n-Hexane	57	2.772	2.772	(0.664)	289137	50.0000	56.60	
139	Diethyl ether	59	1.760	1.760	(0.421)	225570	50.0000	47.23	
148	Tert-butyl alcohol	59	2.434	2.434	(0.583)	596047	1000.00	922.23	
149	Isopropyl alcohol	45	2.097	2.097	(0.502)	371647	1000.00	926.71	
156	Diisopropyl ether	45	3.004	3.004	(0.719)	995915	50.0000	47.18	
166	1,2,3-Trimethylbenzene	105	9.729	9.729	(1.007)	925815	50.0000	50.38	
167	Ethanol	45	1.703	1.703	(0.408)	70814	1000.00	988.65	
172	tert-Butyl formate	59	4.624	4.624	(1.107)	486894	100.000	89.01	
173	3,3-Dimethyl-1-butanol	57	7.285	7.285	(0.950)	689515	1000.00	887.11	
174	tert-Amyl methyl ether	73	4.669	4.669	(1.118)	850966	50.0000	50.51	
175	tert-Butyl ethyl ether	59	3.379	3.379	(0.809)	1037718	50.0000	47.86	
176	tert-Amyl alcohol	59	4.624	4.624	(1.107)	486894	1000.00	870.37	
151	4-Methyl-2-pentanol	45	6.712	6.712	(1.352)	1479680	1000.00	869.66	
180	1-Methylnaphthalene	142	12.635	12.635	(1.308)	429808	50.0000		(a)
140	1,3-Butadiene	54	1.167	1.167	(0.280)	330937	50.0000	50.29	
152	Amyl alcohol	42	6.903	6.903	(0.900)	188258	1000.00	905.79	
158	Dichlorofluoromethane	67	1.535	1.535	(0.367)	383049	50.0000	46.42	
159	Propylene oxide	43	1.805	1.805	(0.432)	61879	100.000	98.49	
161	3-Methyl-1-butanol	55	6.903	6.903	(0.900)	168011	1000.00	944.23	
162	Butyl acrylate	55	8.249	8.249	(1.076)	734228	50.0000	53.40	
163	Butyl methacrylate	41	9.167	9.167	(0.949)	484253	50.0000	50.86	
164	Dicyclopentadiene	66	9.681	9.681	(1.002)	1089926	50.0000	47.60	
182	Epichlorohydrin	57	6.093	6.093	(1.227)	118769	200.000	200.27	
M 94	1,2-Dichloroethylene (total)	96				491824	100.000		(a)
145	alpha-Methylstyrene	118	9.253	9.253	(0.958)	441444	50.0000	50.90	
130	Ethyl Acetate	43	3.664	3.664	(0.877)	366950	50.0000	48.24	
134	Cyclohexanone	55	8.638	8.638	(0.894)	342339	1000.00	967.40	
185	Isoprene	39	1.771	1.771	(0.424)	86682	50.0000	51.35	
188	Isopropyl acetate	43	4.680	4.680	(0.943)	994717	50.0000	47.51	

187 n-Amyl acetate	43	8.451	8.451 (1.102)	623394	50.0000	47.06
189 n-Butyl acetate	43	7.210	7.210 (0.940)	555507	50.0000	50.14

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
150 Allyl alcohol	57	2.772	2.772	(0.664)	289137	1000.00	1132.55
194 Acetaldehyde	44	1.212	1.212	(0.290)	104751	200.000	231.15
195 Methyl Amyl Ketone	43	8.380	8.380	(1.093)	751890	50.0000	49.77
200 Dimethyl Disulfide	94	6.194	6.194	(0.808)	516320	50.0000	52.96
202 Isobutylene	41	1.242	1.242	(0.297)	34194	50.0000	40.38(M)
205 2-Ethylhexyl Acrylate	55	11.547	11.547	(1.196)	574135	50.0000	56.55

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.



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Client ID: CCV
Sample Info: CCV,CCV,2,,
Purge Volume: 5.0
Column phase: DB624

Instrument: voa6_i
Operator: PC
Column diameter: 0.18

Data File : \\NAHSTWS005\Target\chem\voa6.i\X230714.b\Y071403.D
Inj Date : 14-JUL-2023 17:48
InstruID : voa6.i
LabSampID : CCV

1,2,3-Trichloropropane (96-18-4)

Reason Code:

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189342
20-Jul-2023
15:04
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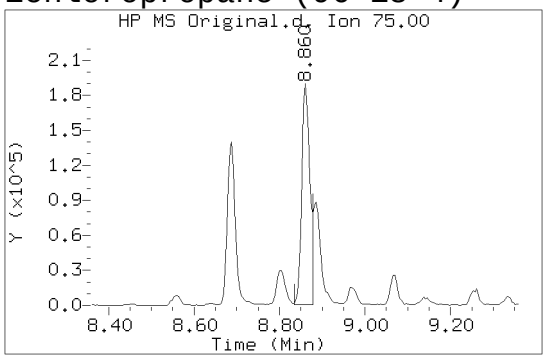

AFTER

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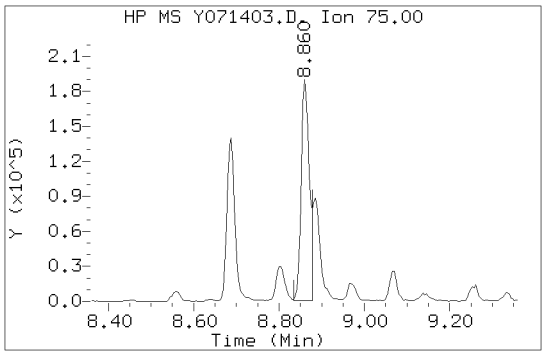

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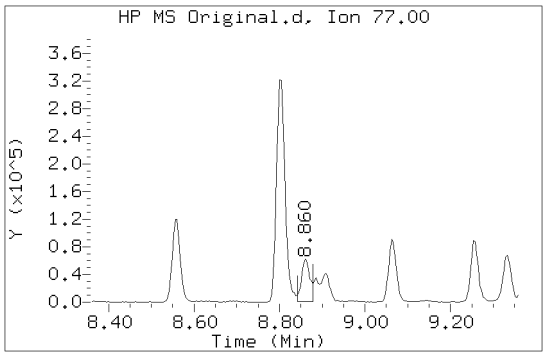

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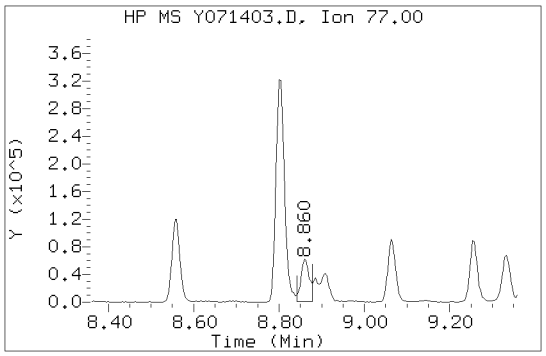

Chloroprene (126-99-8)

Reason Code:

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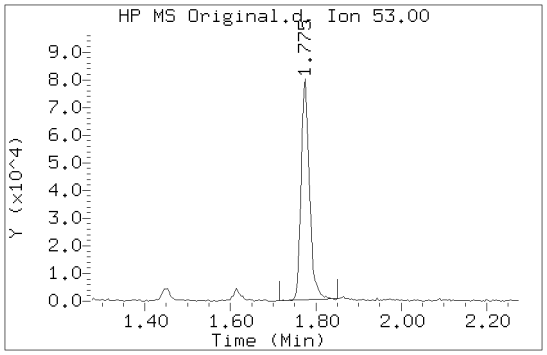

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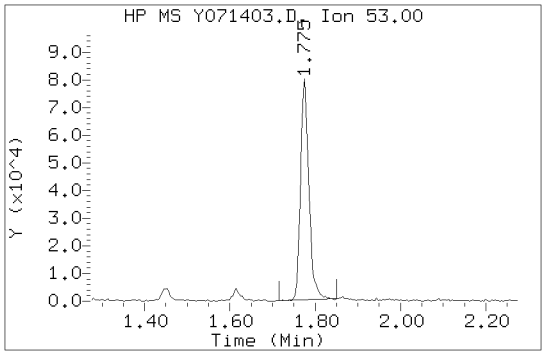

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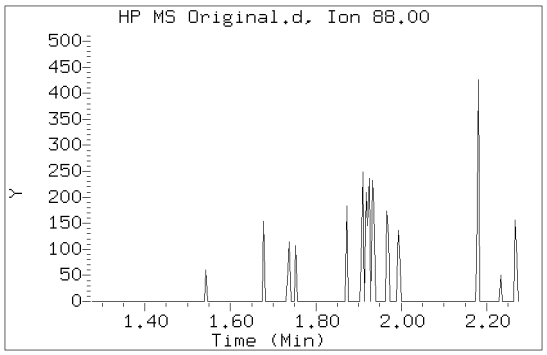

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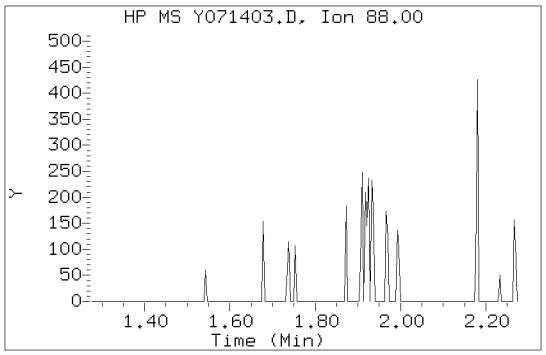

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InstruID : voa6.i
LabSampID : CCV

Isobutylene (115-11-7)

Reason Code:

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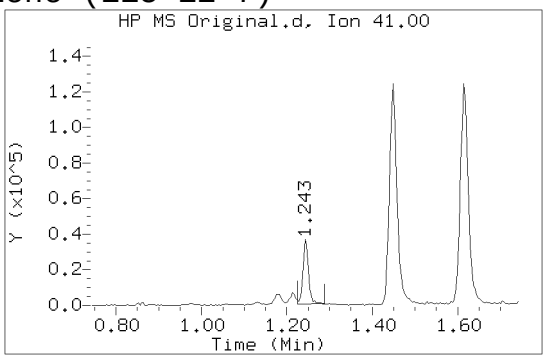

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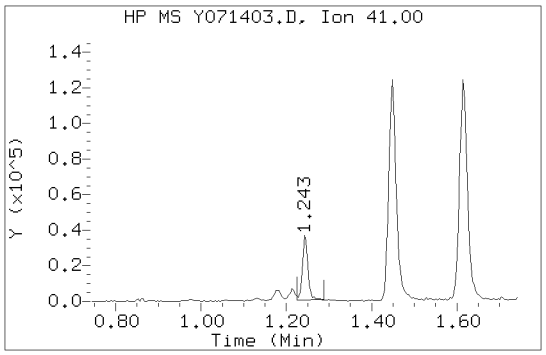

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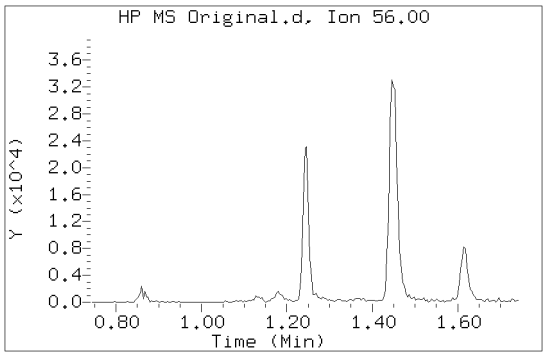

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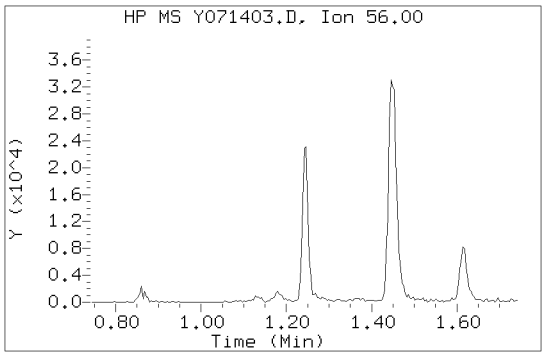

BEFORE

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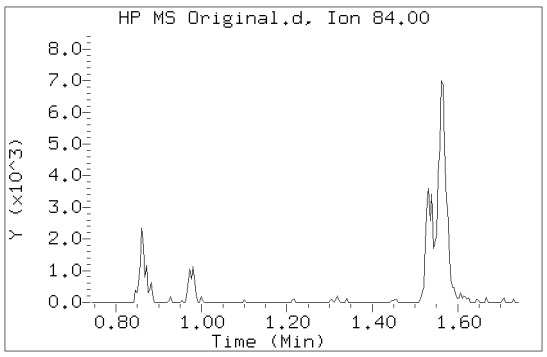

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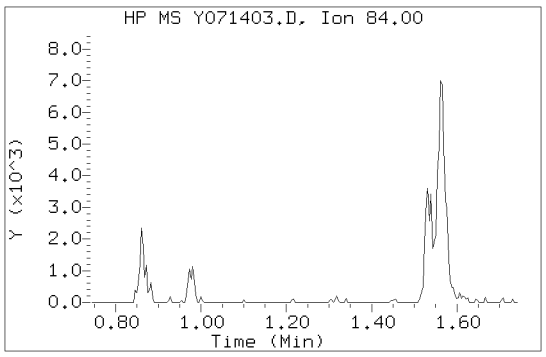

ALS Laboratory Group

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Smp Info : CCB;CCB;;;
Misc Info : V6;WATER;0;1;
Comment :
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Meth Date : 20-Jul-2023 15:05 voa6.i Quant Type: ISTD
Cal Date : 14-JUL-2023 15:25 Cal File: X071411.D
Als bottle: 20
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.178	4.178	(1.000)	510529	50.0000	
$ 30 Dibromofluoromethane	113	4.099	4.099	(0.981)	245093	52.4173	52.41
$ 35 1,2-Dichloroethane-d4	65	4.470	4.470	(1.070)	307261	52.5429	52.54
* 36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	756039	50.0000	
* 47 Chlorobenzene-d5	117	7.667	7.668	(1.000)	664131	50.0000	
$ 48 Toluene-d8	98	6.385	6.382	(0.833)	896991	52.4576	52.45
$ 69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	316042	47.7751	47.77
* 70 1,4-Dichlorobenzene-d4	152	9.662	9.658	(1.000)	345715	50.0000	

01319806

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Instrument: voa6.i

Sample Info: CCB;CCB;;;

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Operator: PC

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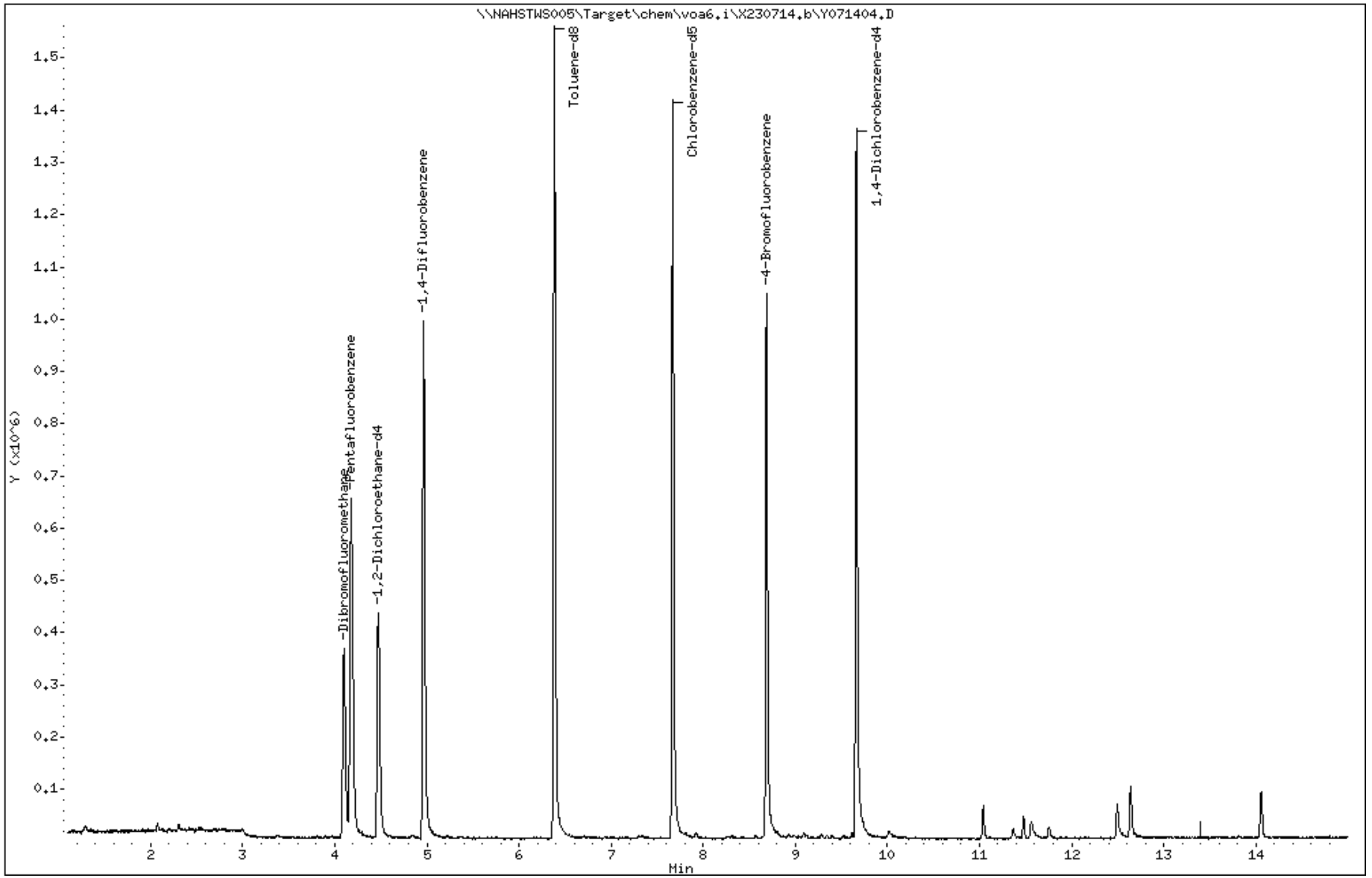
Column diameter: 0.18



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LabSampID : CCB

NO MANUAL INTEGRATIONS

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Report Date: 20-Jul-2023 15:05

ALS Laboratory Group

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Inj Date : 14-JUL-2023 18:29
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Smp Info : VLCSW-230714;VLCSW-230714;3;;LCS
Misc Info : V6;WATER;0;1;
Comment :
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Meth Date : 20-Jul-2023 15:05 voa6.i Quant Type: ISTD
Cal Date : 14-JUL-2023 15:25 Cal File: X071411.D
Als bottle: 21 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.178	4.178	(1.000)	496979	50.0000	
135 1,4-Dioxane	88	5.606	5.602	(1.342)	24770	419.429	419.42(a)
140 1,3-Butadiene	54	1.167	1.167	(0.280)	120991	18.9463	18.94
25 Methacrylonitrile	41	3.836	3.821	(0.918)	136632	21.2993	21.29
12 Isobutyl Alcohol	43	4.684	4.680	(1.121)	403637	428.464	428.46
13 Acetonitrile	39	2.202	2.198	(0.527)	136165	195.387	195.38
14 Allyl Chloride	41	2.202	2.198	(0.527)	311663	19.1008	19.10
4 Propionitrile	54	3.660	3.657	(0.876)	203192	206.396	206.39(a)
72 trans-1,4-Dichloro-2-butene	53	8.886	8.886	(1.159)	45898	20.7676	20.76
194 Acetaldehyde	44	1.212	1.212	(0.290)	54221	112.710	112.70
23 Chloroprene	53	1.775	1.775	(0.425)	41706	18.6639	18.66(M)
130 Ethyl Acetate	43	3.664	3.664	(0.877)	157202	21.2965	21.29
40 Methyl Methacrylate	41	5.610	5.606	(1.343)	114813	19.1410	19.14
49 Ethyl Methacrylate	69	6.712	6.712	(1.352)	105013	20.4251	20.42
131 Methyl Acrylate	55	3.702	3.690	(0.886)	107922	15.9753	15.97
132 n-Butanol	56	5.268	5.261	(1.261)	60049	362.964	362.96(a)
136 n-Hexane	57	2.772	2.772	(0.664)	118986	26.1505	26.15
139 Diethyl ether	59	1.760	1.760	(0.421)	90095	19.4409	19.44
142 Tetrahydrofuran	42	3.855	3.851	(0.923)	49187	38.4705	38.47
145 alpha-Methylstyrene	118	9.257	9.253	(0.958)	170084	20.1589	20.15

156 Diisopropyl ether	45	3.004	3.004 (0.719)	402156	19.6335	19.63
162 Butyl acrylate	55	8.252	8.249 (1.076)	279272	20.2012	20.20

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230714.b\Y071405.D Page 2
Report Date: 20-Jul-2023 15:05

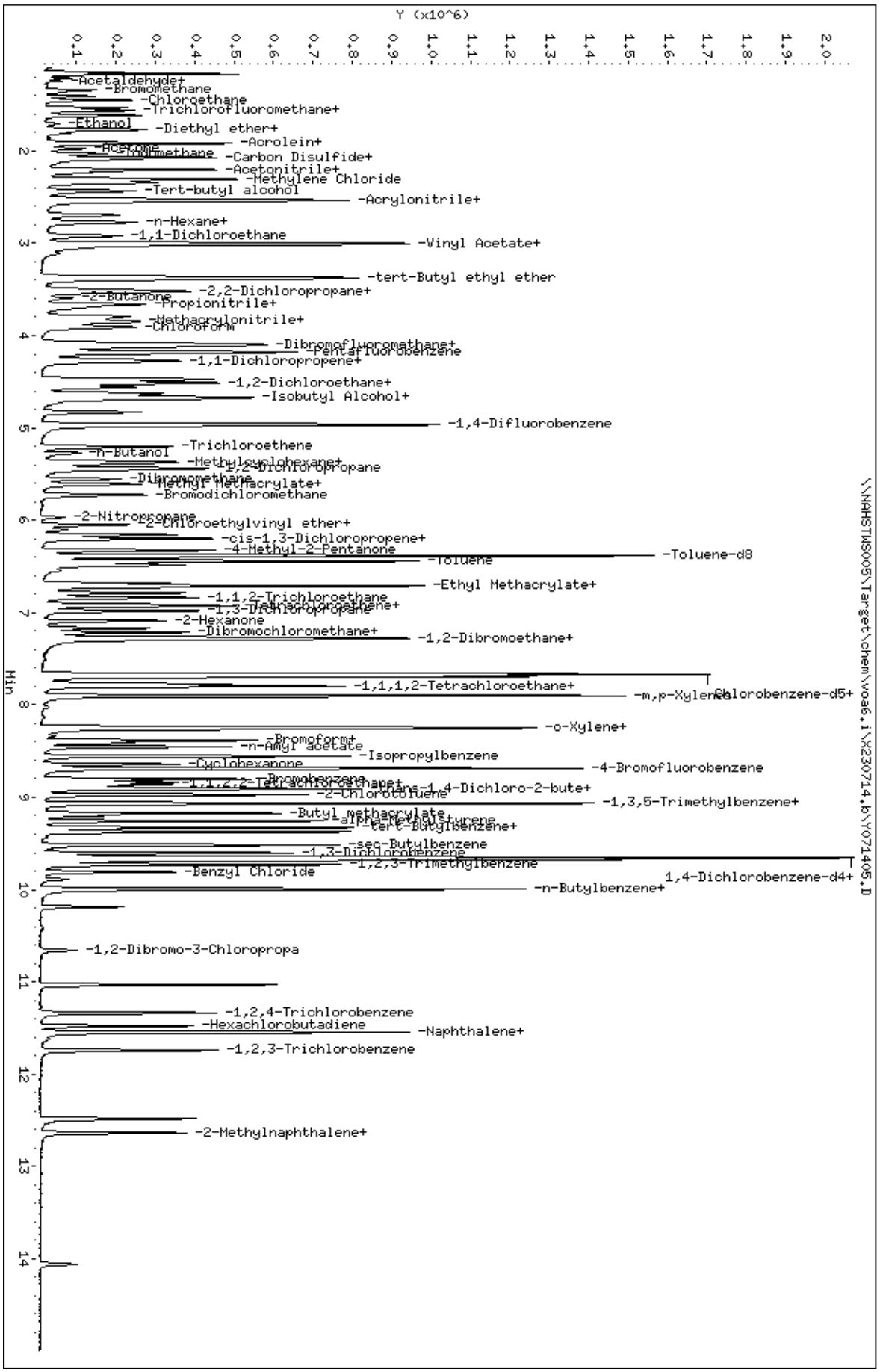
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
167	Ethanol	45	1.703	1.703	(0.408)	29720	416.942	416.94
200	Dimethyl Disulfide	94	6.198	6.194	(0.808)	192841	19.6740	19.67
182	Epichlorohydrin	57	6.097	6.093	(1.228)	48004	81.8639	81.86
164	Dicyclopentadiene	66	9.681	9.681	(1.002)	405544	18.2055	18.20
166	1,2,3-Trimethylbenzene	105	9.729	9.729	(1.007)	337587	18.8843	18.88
205	2-Ethylhexyl Acrylate	55	11.547	11.547	(1.195)	189571	19.1921	19.19
86	Benzyl Chloride	91	9.804	9.804	(1.279)	203311	18.0179	18.01
134	Cyclohexanone	55	8.642	8.638	(0.894)	141672	411.496	411.49(a)
202	Isobutylene	41	1.242	1.242	(0.297)	13218	16.0868	16.08(M)
133	Ethyl Acrylate	55	5.385	5.381	(1.289)	294605	17.8864	17.88
163	Butyl methacrylate	41	9.171	9.167	(0.949)	186511	20.1348	20.13
188	Isopropyl acetate	43	4.684	4.680	(0.943)	406417	19.6347	19.63
189	n-Butyl acetate	43	7.214	7.210	(0.941)	226121	20.3023	20.30
2	Dichlorodifluoromethane	85	0.976	0.976	(0.234)	96480	19.6573	19.65
3	Chloromethane	50	1.081	1.081	(0.259)	154765	20.6177	20.61
5	Vinyl Chloride	62	1.145	1.145	(0.274)	126808	19.7178	19.71
6	Bromomethane	94	1.344	1.344	(0.322)	58149	21.8494	21.84
7	Chloroethane	64	1.407	1.407	(0.337)	70412	19.1790	19.17
8	Trichlorofluoromethane	101	1.561	1.565	(0.374)	135661	20.8151	20.81
9	Acrolein	56	1.865	1.861	(0.446)	7551	40.8001	40.80
10	Acetone	43	1.977	1.973	(0.473)	91150	43.7330	43.73
11	1,1-Dichloroethene	96	1.917	1.917	(0.459)	72311	19.8607	19.86
15	Iodomethane	142	2.030	2.030	(0.486)	147064	33.8208	33.82
16	Acrylonitrile	53	2.539	2.532	(0.608)	97231	40.1484	40.14
17	Methylene Chloride	84	2.303	2.307	(0.551)	94052	21.0980	21.09
18	Methyl tert-butyl ether	73	2.539	2.536	(0.608)	267407	19.7479	19.74
19	Carbon Disulfide	76	2.071	2.071	(0.496)	456225	39.8630	39.86
20	trans-1,2-Dichloroethene	96	2.532	2.528	(0.606)	80808	19.1874	19.18
21	Vinyl Acetate	43	3.004	3.001	(0.719)	713531	40.9662	40.96
22	1,1-Dichloroethane	63	2.922	2.922	(0.699)	186200	20.1474	20.14
24	2-Butanone	43	3.593	3.585	(0.860)	99986	37.7790	37.77
26	2,2-Dichloropropane	77	3.510	3.507	(0.840)	145279	20.3739	20.37
27	cis-1,2-Dichloroethene	96	3.529	3.529	(0.845)	108722	20.2647	20.26
28	Chloroform	83	3.908	3.904	(0.935)	189373	20.0259	20.02
29	Bromochloromethane	128	3.799	3.795	(0.909)	59320	19.7291	19.72
$ 30	Dibromofluoromethane	113	4.103	4.099	(0.982)	244547	53.7455	53.74
31	1,1,1-Trichloroethane	97	4.080	4.080	(0.977)	149389	20.5220	20.52
32	1,1-Dichloropropene	75	4.283	4.275	(0.863)	128177	20.0170	20.01
33	1,2-Dichloroethane	62	4.560	4.556	(0.918)	178729	20.6820	20.68
34	Carbon Tetrachloride	117	4.260	4.264	(0.858)	124280	19.2649	19.26
$ 35	1,2-Dichloroethane-d4	65	4.470	4.470	(1.070)	301196	52.9144	52.91
* 36	1,4-Difluorobenzene	114	4.965	4.965	(1.000)	785043	50.0000	
37	Benzene	78	4.511	4.511	(0.909)	375932	20.0201	20.02
38	Trichloroethene	130	5.205	5.205	(1.048)	106303	20.0142	20.01
39	Bromodichloromethane	83	5.726	5.726	(1.153)	137740	19.1504	19.15
41	2-Chloroethylvinyl ether	63	6.048	6.048	(1.218)	90614	41.2626	41.26
42	1,2-Dichloropropane	63	5.433	5.433	(1.094)	121453	20.1145	20.11
44	Dibromomethane	93	5.557	5.550	(1.119)	68841	20.1413	20.14
45	4-Methyl-2-Pentanone	43	6.326	6.326	(0.825)	287845	40.2537	40.25
46	cis-1,3-Dichloropropene	75	6.157	6.153	(1.240)	165727	20.0610	20.06
* 47	Chlorobenzene-d5	117	7.668	7.668	(1.000)	726669	50.0000	
$ 48	Toluene-d8	98	6.382	6.382	(0.832)	875510	46.7949	46.79

50 Toluene	91	6.446	6.442 (0.841)	399769	20.4372	20.43
51 trans-1,3-Dichloropropene	75	6.682	6.678 (1.346)	136263	19.5670	19.56

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
52	2-Hexanone	43	7.087	7.087	(0.924)	197765	42.1014	42.10
53	1,1,2-Trichloroethane	83	6.839	6.839	(0.892)	84059	20.2575	20.25
54	1,3-Dichloropropane	76	6.982	6.982	(0.911)	168461	19.8718	19.87
55	Dibromochloromethane	129	7.173	7.173	(0.935)	117993	19.6969	19.69
56	Tetrachloroethene	164	6.925	6.925	(0.903)	84638	20.9438	20.94
57	1,2-Dibromoethane	107	7.259	7.259	(0.947)	91204	19.2342	19.23
58	1-Chlorohexane	55	7.690	7.694	(1.549)	127090	20.1513	20.15
59	Chlorobenzene	112	7.690	7.690	(1.003)	277444	20.2905	20.29
60	1,1,1,2-Tetrachloroethane	131	7.773	7.769	(1.014)	110788	20.6962	20.69
61	Ethylbenzene	106	7.799	7.795	(1.017)	137736	20.0878	20.08
62	m,p-Xylenes	106	7.904	7.900	(1.031)	354576	41.2203	41.22
63	o-Xylene	106	8.237	8.237	(1.074)	169425	20.7989	20.79
64	Styrene	104	8.256	8.256	(1.077)	288813	20.3263	20.32
66	Bromoform	173	8.406	8.406	(1.096)	78676	20.4701	20.47
67	Isopropylbenzene	105	8.560	8.556	(1.116)	423815	20.2410	20.24
68	1,1,2,2-Tetrachloroethane	83	8.837	8.837	(0.915)	133283	20.5188	20.51
$ 69	4-Bromofluorobenzene	95	8.687	8.687	(1.133)	366605	50.6749	50.67
* 70	1,4-Dichlorobenzene-d4	152	9.662	9.658	(1.000)	386725	50.0000	
71	1,2,3-Trichloropropane	75	8.860	8.860	(0.917)	98871	19.1814	19.18(M)
73	n-Propylbenzene	91	8.908	8.908	(0.922)	501586	21.4632	21.46
74	Bromobenzene	156	8.803	8.803	(0.911)	125342	20.7237	20.72
75	1,3,5-Trimethylbenzene	105	9.066	9.062	(0.938)	346474	19.7906	19.79
76	2-Chlorotoluene	91	8.972	8.972	(0.929)	325001	20.6159	20.61
77	4-Chlorotoluene	91	9.070	9.066	(0.939)	361849	20.8881	20.88
78	tert-Butylbenzene	119	9.336	9.332	(0.966)	308949	20.5782	20.57
79	1,2,4-Trimethylbenzene	105	9.377	9.377	(0.971)	351418	20.0168	20.01
81	sec-Butylbenzene	105	9.519	9.519	(0.985)	421286	21.0518	21.05
82	p-Isopropyltoluene	119	9.647	9.647	(0.998)	362972	19.8557	19.85
83	1,3-Dichlorobenzene	146	9.606	9.602	(0.994)	216392	20.5374	20.53
84	1,4-Dichlorobenzene	146	9.681	9.681	(1.002)	227538	19.6962	19.69
87	n-Butylbenzene	91	9.992	9.992	(1.034)	316846	20.6950	20.69
88	1,2-Dichlorobenzene	146	9.992	9.988	(1.034)	216921	20.9409	20.94
89	1,2-Dibromo-3-Chloropropane	155	10.663	10.655	(1.104)	20701	20.0540	20.05
90	1,2,4-Trichlorobenzene	180	11.337	11.334	(1.173)	130350	18.3214	18.32
91	Hexachlorobutadiene	225	11.476	11.476	(1.188)	61778	20.3112	20.31
92	Naphthalene	128	11.544	11.540	(1.195)	323332	18.3615	18.36
93	1,2,3-Trichlorobenzene	180	11.742	11.739	(1.215)	123250	18.5235	18.52
M 94	1,2-Dichloroethylene (total)	96				189530	39.4521	39.45
M 95	Xylenes (total)	106				524001	62.0192	62.01
141	Cyclohexane	56	4.121	4.121	(0.987)	190866	22.1565	22.15
138	Freon TF	101	1.917	1.917	(0.459)	70705	24.5336	24.53
147	Methylcyclohexane	55	5.385	5.381	(1.085)	294605	17.7793	17.77
146	Methyl Acetate	43	2.232	2.232	(0.534)	89416	20.2161	20.21
148	Tert-Butyl alcohol	59	2.434	2.434	(0.583)	250649	399.597	399.59
149	Isopropyl Alcohol	45	2.097	2.097	(0.502)	143843	369.573	369.57

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.



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Sample Info: VLCSW-230714;VLCSW-230714;3;;LCS
Purge Volume: 5.0
Column phase: DB624

Instrument: voa6.i
Operator: PC
Column diameter: 0.18

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Inj Date : 14-JUL-2023 18:29
InstruID : voa6.i
LabSampID : VLCSW-230714

1,2,3-Trichloropropane (96-18-4)

Reason Code:

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20-Jul-2023
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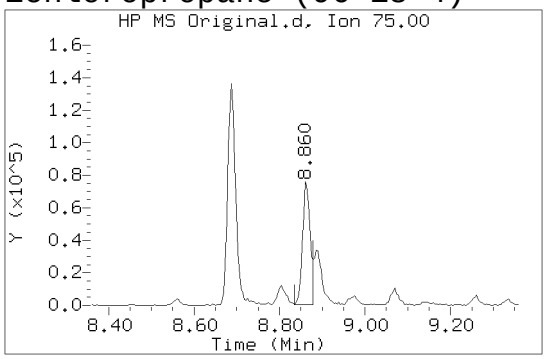

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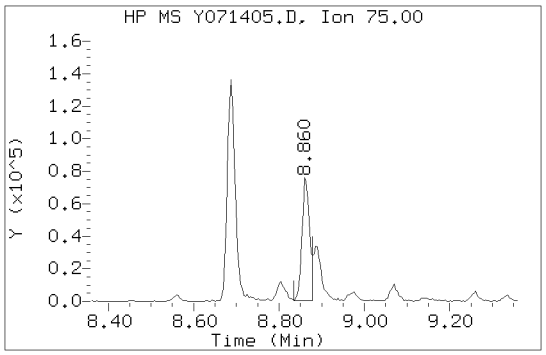

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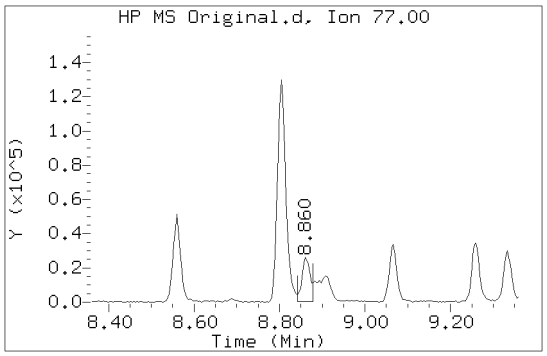

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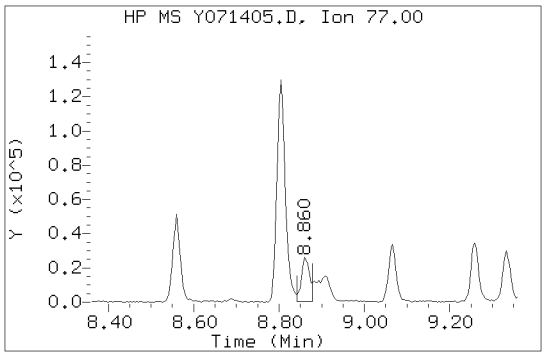

Chloroprene (126-99-8)

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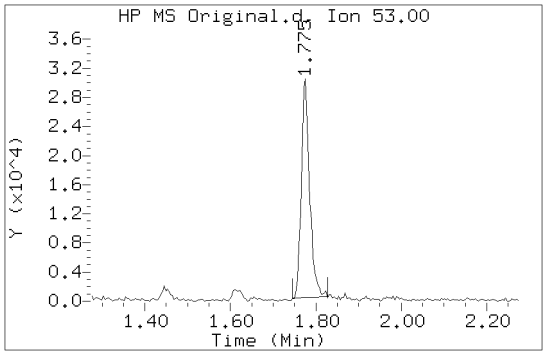

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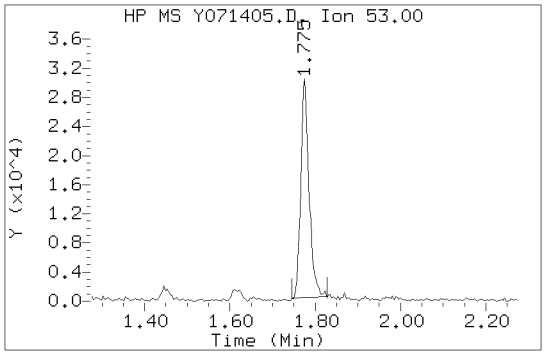

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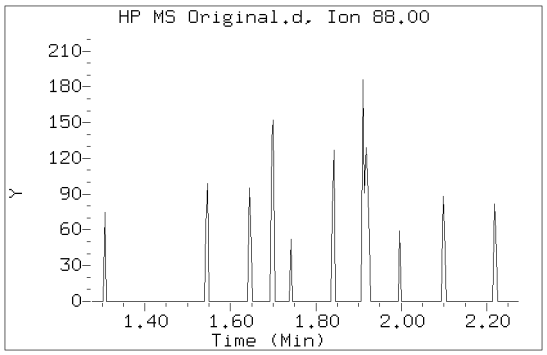

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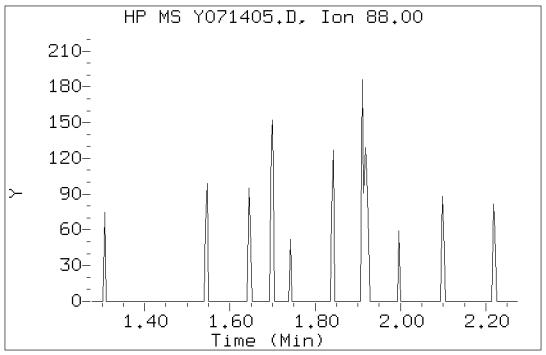

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InstruID : voa6.i
LabSampID : VLCSW-230714

Isobutylene (115-11-7)

Reason Code:

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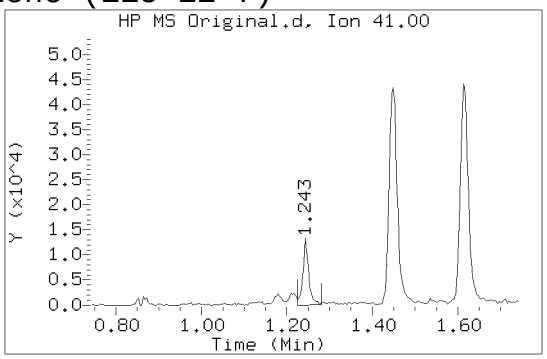

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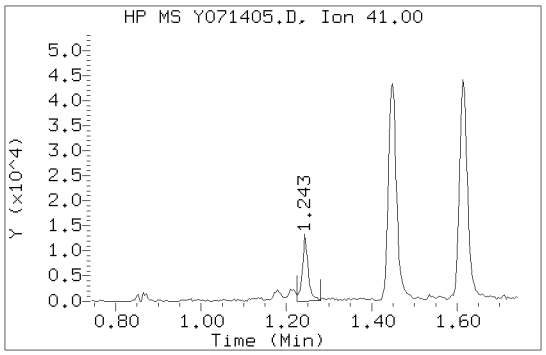

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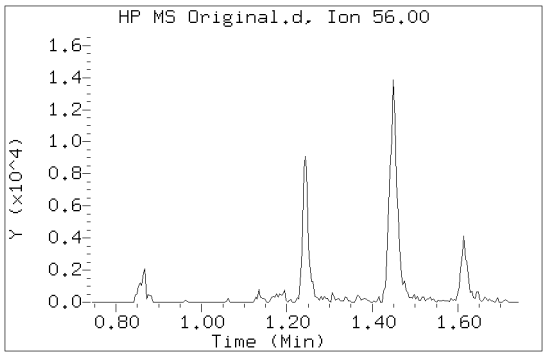

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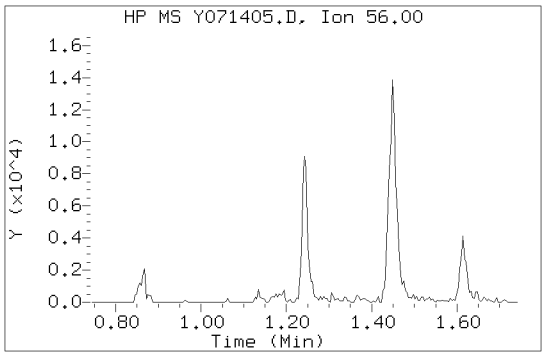

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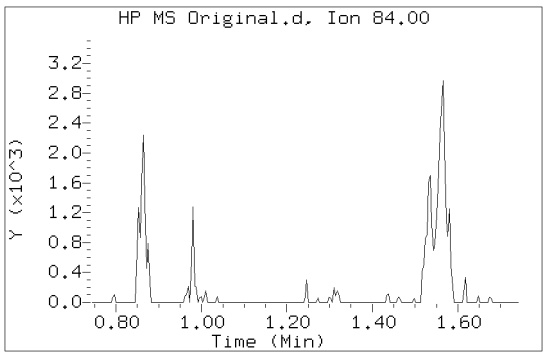

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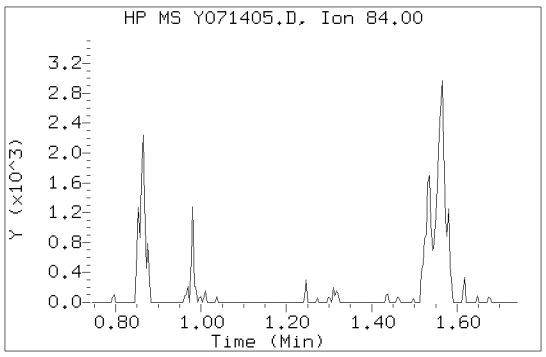


ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230714.b\Y071407.D
Lab Smp Id: VBLKW-230714 Client Smp ID: VBLKW-230714
Inj Date : 14-JUL-2023 19:10
Operator : PC Inst ID: voa6.i
Smp Info : VBLKW-230714;VBLKW-230714;3;;BLANK
Misc Info : V6;WATER;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\voa6.i\X230714.b\8260W.m
Meth Date : 20-Jul-2023 15:05 voa6.i Quant Type: ISTD
Cal Date : 14-JUL-2023 15:25 Cal File: X071411.D
Als bottle: 23 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.178	4.178	(1.000)	526276	50.0000	
$ 30 Dibromofluoromethane	113	4.099	4.099	(0.981)	247732	51.3815	51.38
$ 35 1,2-Dichloroethane-d4	65	4.474	4.470	(1.071)	313050	51.9238	51.92
* 36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	772082	50.0000	
* 47 Chlorobenzene-d5	117	7.668	7.668	(1.000)	677726	50.0000	
$ 48 Toluene-d8	98	6.386	6.382	(0.833)	888273	50.9057	50.90
$ 69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	309489	45.8287	45.82
* 70 1,4-Dichlorobenzene-d4	152	9.662	9.658	(1.000)	329433	50.0000	

01319817

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230714.b\Y071407.D

Date : 14-JUL-2023 19:10

Client ID: VBLKW-230714

Instrument: voa6.i

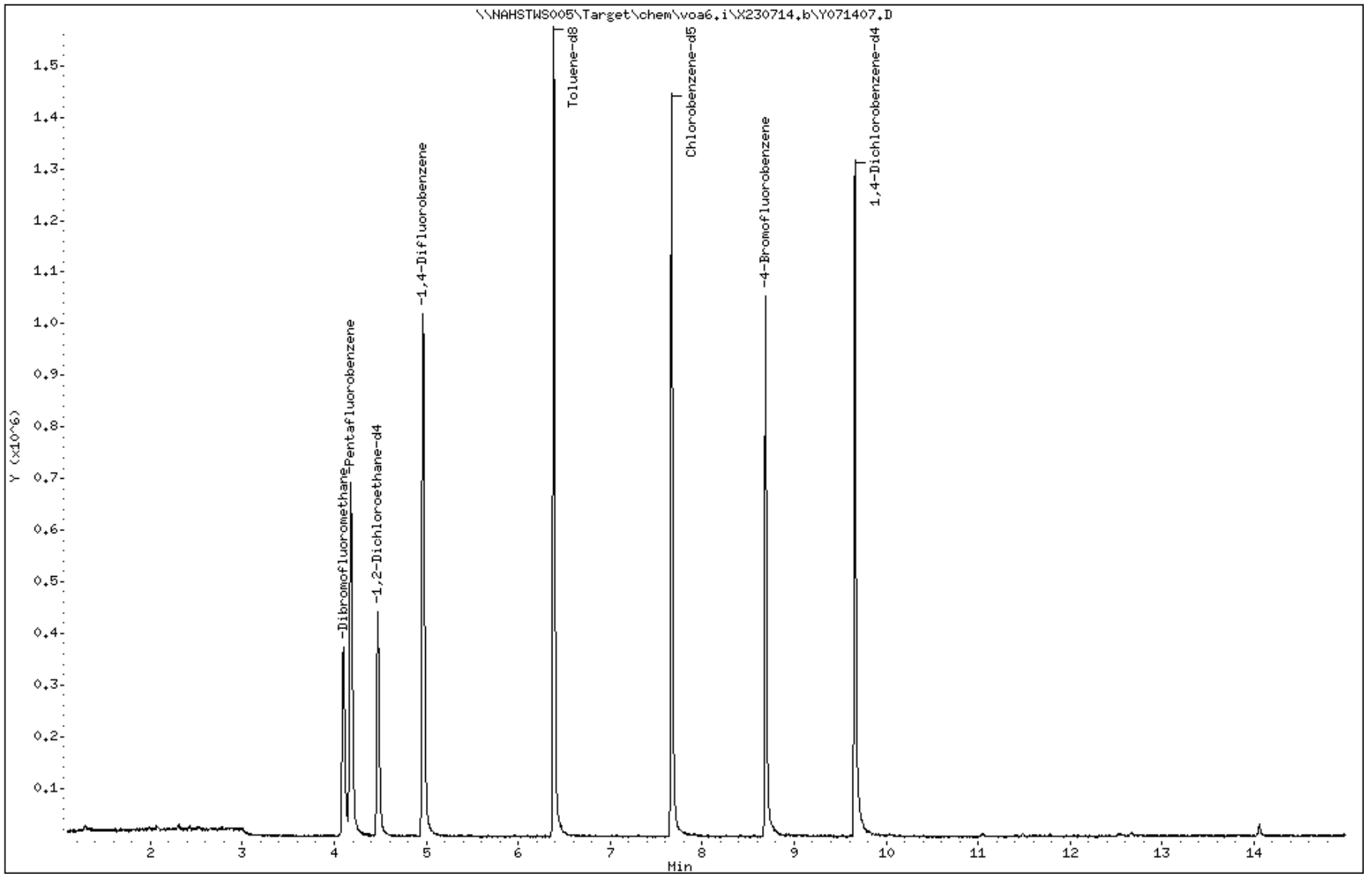
Sample Info: VBLKW-230714;VBLKW-230714;3;;BLANK

Purge Volume: 5.0

Operator: PC

Column phase: DB624

Column diameter: 0.18



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Inj Date : 14-JUL-2023 19:10
InstruID : voa6.i
LabSampID : VBLKW-230714

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230714.b\Y071416.D Page 1
Report Date: 20-Jul-2023 15:05

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230714.b\Y071416.D
Lab Smp Id: HS23070451-04MS Client Smp ID: HS23070451-04MS
Inj Date : 14-JUL-2023 22:14
Operator : PC Inst ID: voa6.i
Smp Info : HS23070451-04MS;HS23070451-04MS;3;;MS
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230714.b\8260W.m
Meth Date : 20-Jul-2023 15:05 voa6.i Quant Type: ISTD
Cal Date : 14-JUL-2023 15:25 Cal File: X071411.D
Als bottle: 32 QC Sample: MS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.181	4.178	(1.000)	537364	50.0000	
135 1,4-Dioxane	88	5.606	5.602	(1.341)	28776	450.643	450.64(a)
140 1,3-Butadiene	54	1.167	1.167	(0.279)	122869	17.7944	17.79
25 Methacrylonitrile	41	3.836	3.821	(0.918)	151328	21.8173	21.81
12 Isobutyl Alcohol	43	4.680	4.680	(1.119)	460227	451.819	451.81
13 Acetonitrile	39	2.198	2.198	(0.526)	149947	198.993	198.99
14 Allyl Chloride	41	2.202	2.198	(0.527)	345102	19.5607	19.56
4 Propionitrile	54	3.660	3.657	(0.875)	215651	202.589	202.58(a)
72 trans-1,4-Dichloro-2-butene	53	8.886	8.886	(1.159)	53003	24.1073	24.10
194 Acetaldehyde	44	1.212	1.212	(0.290)	68493	135.490	135.49
23 Chloroprene	53	1.775	1.775	(0.424)	48534	20.0872	20.08(M)
130 Ethyl Acetate	43	3.660	3.664	(0.875)	179303	22.4651	22.46
40 Methyl Methacrylate	41	5.609	5.606	(1.342)	149798	23.0966	23.09
49 Ethyl Methacrylate	69	6.712	6.712	(1.352)	146282	27.8739	27.87
131 Methyl Acrylate	55	3.698	3.690	(0.884)	157598	21.5755	21.57
132 n-Butanol	56	5.268	5.261	(1.260)	65081	363.816	363.81(a)
136 n-Hexane	57	2.768	2.772	(0.662)	142381	28.8025	28.80
139 Diethyl ether	59	1.760	1.760	(0.421)	100942	20.1446	20.14
142 Tetrahydrofuran	42	3.859	3.851	(0.923)	57241	41.4052	41.40
145 alpha-Methylstyrene	118	9.257	9.253	(0.958)	161131	19.0043	19.00

156	Diisopropyl ether	45	3.004	3.004 (0.719)	433965	19.5942	19.59
162	Butyl acrylate	55	8.248	8.249 (1.076)	379242	27.5753	27.57

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230714.b\Y071416.D Page 2
Report Date: 20-Jul-2023 15:05

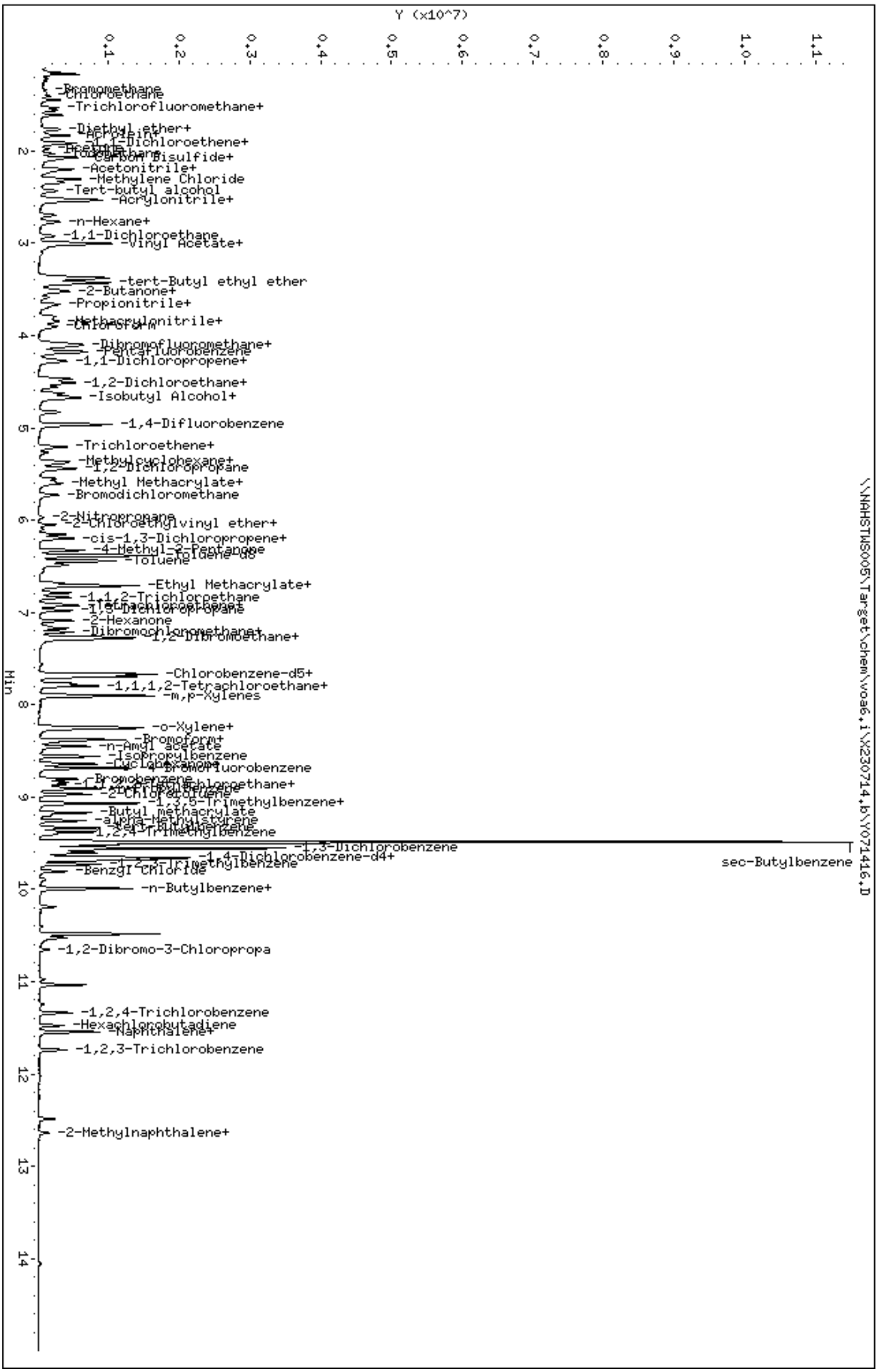
		QUANT SIG					CONCENTRATIONS ON-COLUMN	FINAL
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/l)	(ug/l)
	167 Ethanol	45	1.707	1.703	(0.408)	31872	413.376	413.37
	200 Dimethyl Disulfide	94	6.194	6.194	(0.808)	225281	23.1032	23.10
	182 Epichlorohydrin	57	6.101	6.093	(1.229)	45338	75.7465	75.74
	164 Dicyclopentadiene	66	9.680	9.681	(1.002)	480865	21.4812	21.48
	166 1,2,3-Trimethylbenzene	105	9.729	9.729	(1.007)	384161	21.3844	21.38
	205 2-Ethylhexyl Acrylate	55	11.547	11.547	(1.195)	200650	20.2143	20.21
	86 Benzyl Chloride	91	9.804	9.804	(1.279)	212698	18.8268	18.82
	134 Cyclohexanone	55	8.642	8.638	(0.894)	118642	342.918	342.91(a)
	133 Ethyl Acrylate	55	5.385	5.381	(1.288)	376630	21.1479	21.14
	163 Butyl methacrylate	41	9.171	9.167	(0.949)	225120	24.1839	24.18
	188 Isopropyl acetate	43	4.680	4.680	(0.943)	463279	21.9270	21.92
	189 n-Butyl acetate	43	7.214	7.210	(0.941)	293509	26.4898	26.48
	2 Dichlorodifluoromethane	85	0.976	0.976	(0.234)	83955	16.0337	16.03
	3 Chloromethane	50	1.081	1.081	(0.259)	124365	15.3227	15.32
	5 Vinyl Chloride	62	1.145	1.145	(0.274)	140783	20.2457	20.24
	6 Bromomethane	94	1.340	1.344	(0.320)	27139	9.43105	9.43
	7 Chloroethane	64	1.407	1.407	(0.337)	81457	20.5200	20.51(M)
	8 Trichlorofluoromethane	101	1.561	1.565	(0.373)	143096	20.3058	20.30
	9 Acrolein	56	1.868	1.861	(0.447)	4621	23.5819	23.58
	10 Acetone	43	1.977	1.973	(0.473)	103030	45.9398	45.93
	11 1,1-Dichloroethene	96	1.917	1.917	(0.459)	83939	21.3218	21.32
	15 Iodomethane	142	2.029	2.030	(0.485)	174593	36.7351	36.73
	16 Acrylonitrile	53	2.536	2.532	(0.606)	109144	41.6805	41.68
	17 Methylene Chloride	84	2.303	2.307	(0.551)	102971	21.3804	21.38
	18 Methyl tert-butyl ether	73	2.539	2.536	(0.607)	300076	20.4950	20.49
	19 Carbon Disulfide	76	2.071	2.071	(0.495)	702278	56.7505	56.75
	20 trans-1,2-Dichloroethene	96	2.528	2.528	(0.605)	99533	21.8574	21.85
	21 Vinyl Acetate	43	3.000	3.001	(0.718)	804835	42.7356	42.73
	22 1,1-Dichloroethane	63	2.922	2.922	(0.699)	213313	21.3465	21.34
	24 2-Butanone	43	3.585	3.585	(0.857)	122307	42.7398	42.73
	26 2,2-Dichloropropane	77	3.506	3.507	(0.839)	151456	19.6514	19.65
	27 cis-1,2-Dichloroethene	96	3.525	3.529	(0.843)	125639	21.6579	21.65
	28 Chloroform	83	3.908	3.904	(0.935)	206652	20.2108	20.21
	29 Bromochloromethane	128	3.795	3.795	(0.908)	65940	20.2827	20.28
$	30 Dibromofluoromethane	113	4.099	4.099	(0.980)	258535	52.5325	52.53
	31 1,1,1-Trichloroethane	97	4.080	4.080	(0.976)	168415	21.3969	21.39
	32 1,1-Dichloropropene	75	4.279	4.275	(0.862)	143198	21.9084	21.90
	33 1,2-Dichloroethane	62	4.560	4.556	(0.918)	195912	22.2097	22.20
	34 Carbon Tetrachloride	117	4.260	4.264	(0.858)	130074	19.7534	19.75
$	35 1,2-Dichloroethane-d4	65	4.470	4.470	(1.069)	326756	53.0927	53.09
*	36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	801325	50.0000	
	37 Benzene	78	4.511	4.511	(0.909)	437877	22.8451	22.84
	38 Trichloroethene	130	5.208	5.205	(1.049)	129919	23.9634	23.96
	39 Bromodichloromethane	83	5.726	5.726	(1.153)	153756	20.9428	20.94
	41 2-Chloroethylvinyl ether	63	6.048	6.048	(1.218)	97604	43.5425	43.54
	42 1,2-Dichloropropane	63	5.433	5.433	(1.094)	137371	22.2885	22.28
	44 Dibromomethane	93	5.553	5.550	(1.119)	74175	21.2610	21.26
	45 4-Methyl-2-Pentanone	43	6.325	6.326	(0.825)	410959	57.7696	57.76
	46 cis-1,3-Dichloropropene	75	6.157	6.153	(1.240)	173946	20.6280	20.62
*	47 Chlorobenzene-d5	117	7.667	7.668	(1.000)	722907	50.0000	
$	48 Toluene-d8	98	6.385	6.382	(0.833)	954030	51.2571	51.25
	50 Toluene	91	6.445	6.442	(0.841)	452795	23.2685	23.26

51 trans-1,3-Dichloropropene	75	6.682	6.678 (1.346)	148385	20.8748	20.87
52 2-Hexanone	43	7.086	7.087 (0.924)	277744	59.4355	59.43

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
53	1,1,2-Trichloroethane	83	6.839	6.839	(0.892)	91513	22.1686	22.16
54	1,3-Dichloropropane	76	6.981	6.982	(0.911)	190470	22.5849	22.58
55	Dibromochloromethane	129	7.176	7.173	(0.936)	130486	21.8958	21.89
56	Tetrachloroethene	164	6.925	6.925	(0.903)	99536	24.7585	24.75
57	1,2-Dibromoethane	107	7.259	7.259	(0.947)	113212	23.9997	23.99
58	1-Chlorohexane	55	7.694	7.694	(1.550)	135408	21.0340	21.03
59	Chlorobenzene	112	7.694	7.690	(1.003)	296684	21.8105	21.81
60	1,1,1,2-Tetrachloroethane	131	7.769	7.769	(1.013)	115306	21.6523	21.65
61	Ethylbenzene	106	7.799	7.795	(1.017)	149364	21.8970	21.89
62	m,p-Xylenes	106	7.900	7.900	(1.030)	379098	44.3003	44.30
63	o-Xylene	106	8.241	8.237	(1.075)	184411	22.7564	22.75
64	Styrene	104	8.260	8.256	(1.077)	293318	20.7508	20.75
66	Bromoform	173	8.406	8.406	(1.096)	84818	22.1830	22.18
67	Isopropylbenzene	105	8.560	8.556	(1.116)	463184	22.2364	22.23
68	1,1,2,2-Tetrachloroethane	83	8.837	8.837	(0.915)	152170	23.3118	23.31
$ 69	4-Bromofluorobenzene	95	8.687	8.687	(1.133)	348788	48.4443	48.44
* 70	1,4-Dichlorobenzene-d4	152	9.662	9.658	(1.000)	388627	50.0000	
71	1,2,3-Trichloropropane	75	8.860	8.860	(0.917)	115487	22.2953	22.29
73	n-Propylbenzene	91	8.908	8.908	(0.922)	536251	22.8343	22.83
74	Bromobenzene	156	8.803	8.803	(0.911)	134496	22.1283	22.12
75	1,3,5-Trimethylbenzene	105	9.066	9.062	(0.938)	335330	19.0603	19.06
76	2-Chlorotoluene	91	8.972	8.972	(0.929)	336535	21.2431	21.24
77	4-Chlorotoluene	91	9.069	9.066	(0.939)	391676	22.4992	22.49
78	tert-Butylbenzene	119	9.332	9.332	(0.966)	322272	21.3605	21.36
79	1,2,4-Trimethylbenzene	105	9.377	9.377	(0.971)	358044	20.2944	20.29
81	sec-Butylbenzene	105	9.519	9.519	(0.985)	440215	21.8900	21.89
82	p-Isopropyltoluene	119	9.647	9.647	(0.998)	389762	21.2168	21.21
83	1,3-Dichlorobenzene	146	9.602	9.602	(0.994)	221321	20.9024	20.90
84	1,4-Dichlorobenzene	146	9.680	9.681	(1.002)	243369	20.9635	20.96
87	n-Butylbenzene	91	9.992	9.992	(1.034)	315555	20.5098	20.50
88	1,2-Dichlorobenzene	146	9.992	9.988	(1.034)	222707	21.3943	21.39
89	1,2-Dibromo-3-Chloropropane	155	10.655	10.655	(1.103)	25646	24.4695	24.46
90	1,2,4-Trichlorobenzene	180	11.337	11.334	(1.173)	128830	18.0191	18.01
91	Hexachlorobutadiene	225	11.472	11.476	(1.187)	55156	18.3080	18.30
92	Naphthalene	128	11.544	11.540	(1.195)	235679	13.3183	13.31
93	1,2,3-Trichlorobenzene	180	11.738	11.739	(1.215)	108377	16.2084	16.20
M 94	1,2-Dichloroethylene (total)	96				225172	43.5153	43.51
M 95	Xylenes (total)	106				563509	67.0568	67.05
141	Cyclohexane	56	4.125	4.121	(0.987)	216407	23.2334	23.23
138	Freon TF	101	1.917	1.917	(0.459)	79654	25.5229	25.52
147	Methylcyclohexane	55	5.385	5.381	(1.085)	376630	22.2677	22.26
146	Methyl Acetate	43	2.236	2.232	(0.535)	104778	21.9090	21.90
148	Tert-Butyl alcohol	59	2.434	2.434	(0.582)	284209	419.047	419.04
149	Isopropyl Alcohol	45	2.097	2.097	(0.502)	165687	393.703	393.70

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.



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Sample Info: HS230704S1-04MS;HS230704S1-04MS;3;;MS
Purge Volume: 5.0
Column phase: DB624

Instrument: voa6.i
Operator: PC
Column diameter: 0.18

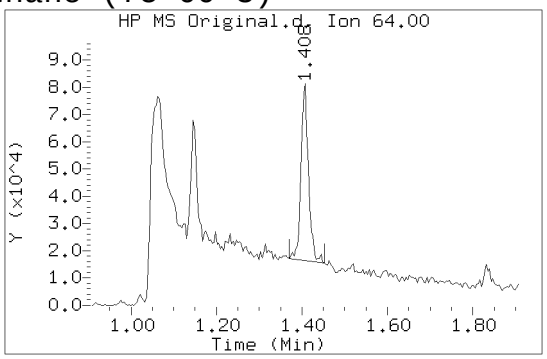
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230714.b\Y071416.D
Inj Date : 14-JUL-2023 22:14
InstruID : voa6.i
LabSampID : HS23070451-04MS

Chloroethane (75-00-3)

Reason Code:

BEFORE

MASS
64
AREA
81457
HEIGHT
64868
20-Jul-2023
15:04
linh
pham



AFTER

MASS
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81457
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20-Jul-2023
15:04
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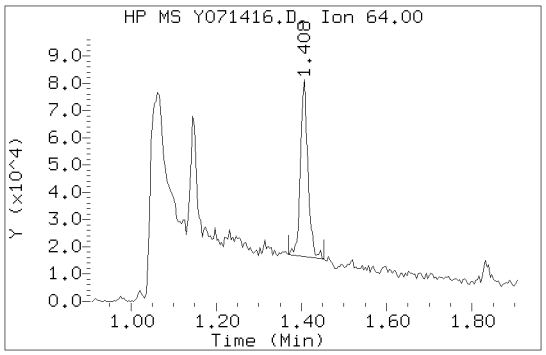

BEFORE

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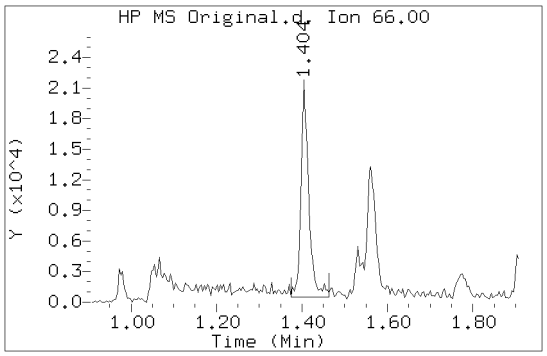
20-Jul-2023
15:04
linh
pham



AFTER

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15:04
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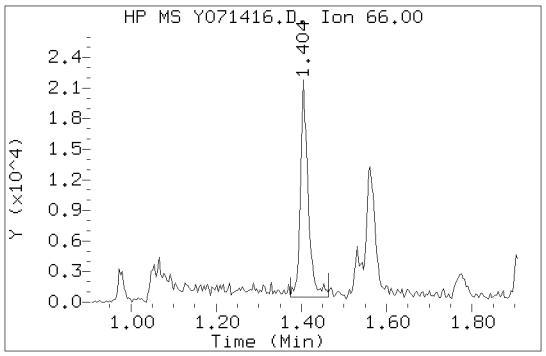

Chloroprene (126-99-8)

Reason Code:

BEFORE

MASS
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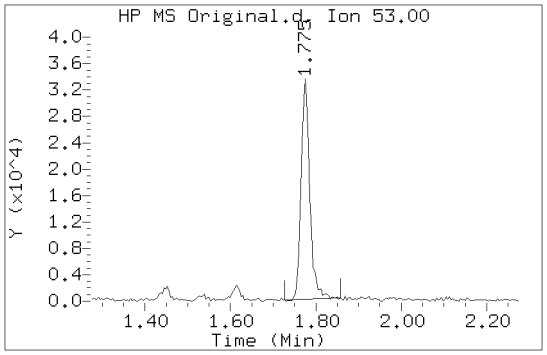
AREA
48534
HEIGHT
33412
20-Jul-2023
15:04
linh
pham



AFTER

MASS
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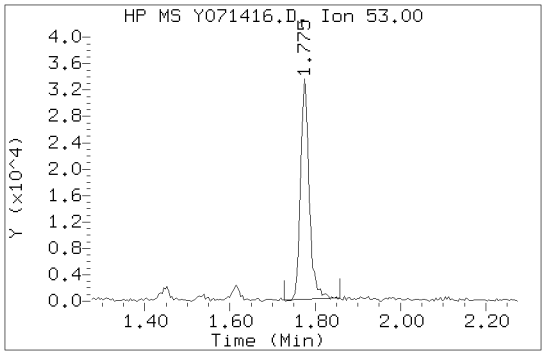
48534
HEIGHT
33412
20-Jul-2023
15:04
linh
pham



BEFORE

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88
AREA
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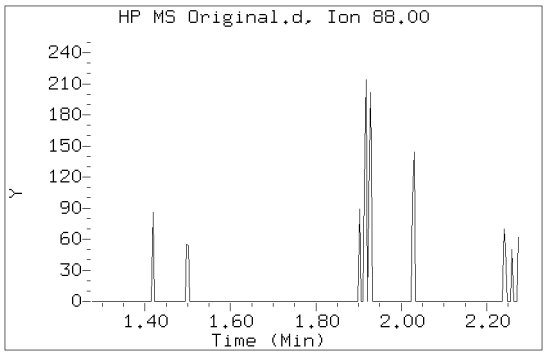
HEIGHT
0
20-Jul-2023
15:04
linh
pham



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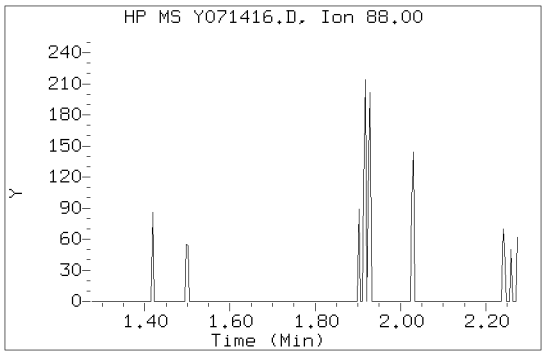

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Report Date: 20-Jul-2023 15:05

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230714.b\Y071417.D
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Inj Date : 14-JUL-2023 22:34
Operator : PC Inst ID: voa6.i
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Misc Info : V6;WATER;0;1;
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Method   : \\NAHSTWS005\Target\chem\voa6.i\X230714.b\8260W.m
Meth Date : 20-Jul-2023 15:05 voa6.i Quant Type: ISTD
Cal Date : 14-JUL-2023 15:25 Cal File: X071411.D
Als bottle: 32 QC Sample: MSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.177	4.178	(1.000)	529973	50.0000	
135 1,4-Dioxane	88	5.606	5.602	(1.342)	25730	408.561	408.56(a)
140 1,3-Butadiene	54	1.167	1.167	(0.280)	124048	18.2157	18.21
25 Methacrylonitrile	41	3.833	3.821	(0.917)	150614	22.0172	22.01
12 Isobutyl Alcohol	43	4.680	4.680	(1.120)	443156	441.127	441.12
13 Acetonitrile	39	2.198	2.198	(0.526)	150861	202.998	202.99
14 Allyl Chloride	41	2.202	2.198	(0.527)	340731	19.5823	19.58
4 Propionitrile	54	3.660	3.657	(0.876)	215209	204.993	204.99(a)
72 trans-1,4-Dichloro-2-butene	53	8.886	8.886	(1.159)	53824	25.1593	25.15
194 Acetaldehyde	44	1.212	1.212	(0.290)	145163	317.195	317.19
23 Chloroprene	53	1.775	1.775	(0.425)	47967	20.1294	20.12(M)
130 Ethyl Acetate	43	3.664	3.664	(0.877)	176964	22.4812	22.48
40 Methyl Methacrylate	41	5.606	5.606	(1.342)	148638	23.2374	23.23
49 Ethyl Methacrylate	69	6.712	6.712	(1.352)	140332	26.9701	26.97
131 Methyl Acrylate	55	3.698	3.690	(0.885)	169780	23.5674	23.56
132 n-Butanol	56	5.268	5.261	(1.261)	65051	368.719	368.71(a)
136 n-Hexane	57	2.772	2.772	(0.664)	143445	29.3885	29.38
139 Diethyl ether	59	1.760	1.760	(0.421)	101509	20.5402	20.54
142 Tetrahydrofuran	42	3.855	3.851	(0.923)	51683	37.9062	37.90
145 alpha-Methylstyrene	118	9.257	9.253	(0.958)	164788	21.0417	21.04

156 Diisopropyl ether	45	3.004	3.004 (0.719)	432677	19.8085	19.80
162 Butyl acrylate	55	8.248	8.249 (1.076)	375828	28.0846	28.08

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230714.b\Y071417.D Page 2
Report Date: 20-Jul-2023 15:05

		QUANT SIG					CONCENTRATIONS ON-COLUMN	FINAL
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/l)	(ug/l)
	167 Ethanol	45	1.707	1.703	(0.409)	29588	388.008	388.00
	200 Dimethyl Disulfide	94	6.198	6.194	(0.808)	225534	23.7703	23.77
	182 Epichlorohydrin	57	6.100	6.093	(1.229)	47547	80.1203	80.12
	164 Dicyclopentadiene	66	9.680	9.681	(1.002)	478767	23.1548	23.15
	166 1,2,3-Trimethylbenzene	105	9.729	9.729	(1.007)	370720	22.3415	22.34
	205 2-Ethylhexyl Acrylate	55	11.547	11.547	(1.196)	204985	22.3575	22.35
	86 Benzyl Chloride	91	9.808	9.804	(1.279)	207462	18.8667	18.86
	134 Cyclohexanone	55	8.642	8.638	(0.895)	113085	353.866	353.86(a)
	133 Ethyl Acrylate	55	5.385	5.381	(1.289)	378175	21.5308	21.53
	163 Butyl methacrylate	41	9.167	9.167	(0.949)	219275	25.5026	25.50
	188 Isopropyl acetate	43	4.680	4.680	(0.943)	443156	21.1550	21.15
	189 n-Butyl acetate	43	7.214	7.210	(0.941)	287943	26.7079	26.70
	2 Dichlorodifluoromethane	85	0.976	0.976	(0.234)	88691	17.0965	17.09
	3 Chloromethane	50	1.081	1.081	(0.259)	124963	15.6111	15.61
	5 Vinyl Chloride	62	1.145	1.145	(0.274)	142707	20.8086	20.80
	6 Bromomethane	94	1.340	1.344	(0.321)	32191	11.3427	11.34
	7 Chloroethane	64	1.403	1.407	(0.336)	81974	20.9382	20.93(M)
	8 Trichlorofluoromethane	101	1.561	1.565	(0.374)	146155	21.0292	21.02
	9 Acrolein	56	1.857	1.861	(0.445)	4771	24.6340	24.63
	10 Acetone	43	1.977	1.973	(0.473)	105636	47.9522	47.95
	11 1,1-Dichloroethene	96	1.917	1.917	(0.459)	84226	21.6930	21.69
	15 Iodomethane	142	2.026	2.030	(0.485)	195850	41.2134	41.21
	16 Acrylonitrile	53	2.536	2.532	(0.607)	102618	39.7348	39.73
	17 Methylene Chloride	84	2.307	2.307	(0.552)	101129	21.2849	21.28
	18 Methyl tert-butyl ether	73	2.536	2.536	(0.607)	297609	20.6100	20.60
	19 Carbon Disulfide	76	2.071	2.071	(0.496)	701722	57.4964	57.49
	20 trans-1,2-Dichloroethene	96	2.528	2.528	(0.605)	100485	22.3742	22.37
	21 Vinyl Acetate	43	3.000	3.001	(0.718)	791470	42.6120	42.61
	22 1,1-Dichloroethane	63	2.922	2.922	(0.699)	206312	20.9338	20.93
	24 2-Butanone	43	3.589	3.585	(0.859)	116821	41.3920	41.39
	26 2,2-Dichloropropane	77	3.506	3.507	(0.839)	148959	19.5975	19.59
	27 cis-1,2-Dichloroethene	96	3.525	3.529	(0.844)	126038	22.0297	22.02
	28 Chloroform	83	3.908	3.904	(0.935)	201596	19.9913	19.99
	29 Bromochloromethane	128	3.795	3.795	(0.908)	67891	21.1740	21.17
$	30 Dibromofluoromethane	113	4.099	4.099	(0.981)	261755	53.9488	53.94
	31 1,1,1-Trichloroethane	97	4.080	4.080	(0.977)	169859	21.8813	21.88
	32 1,1-Dichloropropene	75	4.275	4.275	(0.861)	149132	23.0125	23.01
	33 1,2-Dichloroethane	62	4.556	4.556	(0.918)	192911	22.0576	22.05
	34 Carbon Tetrachloride	117	4.260	4.264	(0.858)	128474	19.6782	19.67
$	35 1,2-Dichloroethane-d4	65	4.470	4.470	(1.070)	325386	53.6134	53.61
*	36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	794491	50.0000	
	37 Benzene	78	4.515	4.511	(0.909)	419618	22.0808	22.08
	38 Trichloroethene	130	5.208	5.205	(1.049)	128519	23.9091	23.90
	39 Bromodichloromethane	83	5.726	5.726	(1.153)	152671	20.9739	20.97
	41 2-Chloroethylvinyl ether	63	6.048	6.048	(1.218)	92400	41.5755	41.57
	42 1,2-Dichloropropane	63	5.433	5.433	(1.094)	136301	22.3052	22.30
	44 Dibromomethane	93	5.553	5.550	(1.119)	74333	21.4895	21.48
	45 4-Methyl-2-Pentanone	43	6.325	6.326	(0.825)	399315	57.6889	57.68
	46 cis-1,3-Dichloropropene	75	6.153	6.153	(1.239)	175175	20.9525	20.95
*	47 Chlorobenzene-d5	117	7.667	7.668	(1.000)	703408	50.0000	
$	48 Toluene-d8	98	6.385	6.382	(0.833)	927932	51.2369	51.23
	50 Toluene	91	6.445	6.442	(0.841)	455332	24.0475	24.04

51 trans-1,3-Dichloropropene	75	6.682	6.678 (1.346)	146825	20.8330	20.83
52 2-Hexanone	43	7.086	7.087 (0.924)	271683	59.7501	59.75

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
53	1,1,2-Trichloroethane	83	6.835	6.839	(0.891)	93703	23.3284	23.32
54	1,3-Dichloropropane	76	6.978	6.982	(0.910)	185740	22.6346	22.63
55	Dibromochloromethane	129	7.173	7.173	(0.935)	126154	21.7557	21.75
56	Tetrachloroethene	164	6.925	6.925	(0.903)	98696	25.2301	25.23
57	1,2-Dibromoethane	107	7.259	7.259	(0.947)	106168	23.1303	23.13
58	1-Chlorohexane	55	7.694	7.694	(1.550)	148733	23.3026	23.30
59	Chlorobenzene	112	7.694	7.690	(1.003)	298563	22.5571	22.55
60	1,1,1,2-Tetrachloroethane	131	7.772	7.769	(1.014)	114899	22.1740	22.17
61	Ethylbenzene	106	7.799	7.795	(1.017)	149358	22.5031	22.50
62	m,p-Xylenes	106	7.900	7.900	(1.030)	384336	46.1574	46.15
63	o-Xylene	106	8.241	8.237	(1.075)	182513	23.1465	23.14
64	Styrene	104	8.260	8.256	(1.077)	295479	21.4831	21.48
66	Bromoform	173	8.406	8.406	(1.096)	82766	22.2464	22.24
67	Isopropylbenzene	105	8.560	8.556	(1.116)	463029	22.8451	22.84
68	1,1,2,2-Tetrachloroethane	83	8.837	8.837	(0.915)	150084	24.8922	24.89
$ 69	4-Bromofluorobenzene	95	8.687	8.687	(1.133)	341199	48.7062	48.70
* 70	1,4-Dichlorobenzene-d4	152	9.658	9.658	(1.000)	358964	50.0000	
71	1,2,3-Trichloropropane	75	8.859	8.860	(0.917)	115812	24.2056	24.20(M)
73	n-Propylbenzene	91	8.912	8.908	(0.923)	522884	24.1050	24.10
74	Bromobenzene	156	8.803	8.803	(0.912)	132598	23.6188	23.61
75	1,3,5-Trimethylbenzene	105	9.066	9.062	(0.939)	335463	20.6435	20.64
76	2-Chlorotoluene	91	8.972	8.972	(0.929)	319878	21.8602	21.86
77	4-Chlorotoluene	91	9.069	9.066	(0.939)	376820	23.4346	23.43
78	tert-Butylbenzene	119	9.332	9.332	(0.966)	322971	23.1758	23.17
79	1,2,4-Trimethylbenzene	105	9.377	9.377	(0.971)	359816	22.0802	22.08
81	sec-Butylbenzene	105	9.519	9.519	(0.986)	432526	23.2850	23.28
82	p-Isopropyltoluene	119	9.647	9.647	(0.999)	385927	22.7441	22.74
83	1,3-Dichlorobenzene	146	9.602	9.602	(0.994)	222129	22.7123	22.71
84	1,4-Dichlorobenzene	146	9.680	9.681	(1.002)	235515	21.9634	21.96
87	n-Butylbenzene	91	9.992	9.992	(1.035)	331452	23.3232	23.32
88	1,2-Dichlorobenzene	146	9.988	9.988	(1.034)	215409	22.4032	22.40
89	1,2-Dibromo-3-Chloropropane	155	10.655	10.655	(1.103)	27067	27.8043	27.80
90	1,2,4-Trichlorobenzene	180	11.337	11.334	(1.174)	123027	18.6294	18.62
91	Hexachlorobutadiene	225	11.476	11.476	(1.188)	57732	20.4329	20.43
92	Naphthalene	128	11.540	11.540	(1.195)	234803	14.3653	14.36
93	1,2,3-Trichlorobenzene	180	11.738	11.739	(1.215)	104454	16.9126	16.91
M 94	1,2-Dichloroethylene (total)	96				226523	44.4039	44.40
M 95	Xylenes (total)	106				566849	69.3040	69.30
141	Cyclohexane	56	4.117	4.121	(0.986)	216701	23.5894	23.58
138	Freon TF	101	1.917	1.917	(0.459)	83200	26.9661	26.96
147	Methylcyclohexane	55	5.385	5.381	(1.085)	378175	22.5513	22.55
146	Methyl Acetate	43	2.236	2.232	(0.535)	100893	21.3909	21.39
148	Tert-Butyl alcohol	59	2.434	2.434	(0.583)	269089	402.287	402.28
149	Isopropyl Alcohol	45	2.097	2.097	(0.502)	157089	378.478	378.47

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

01319831

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Date : 14-JUL-2023 22:34

Client ID: HS23070451-04MSD

Instrument: voa6.i

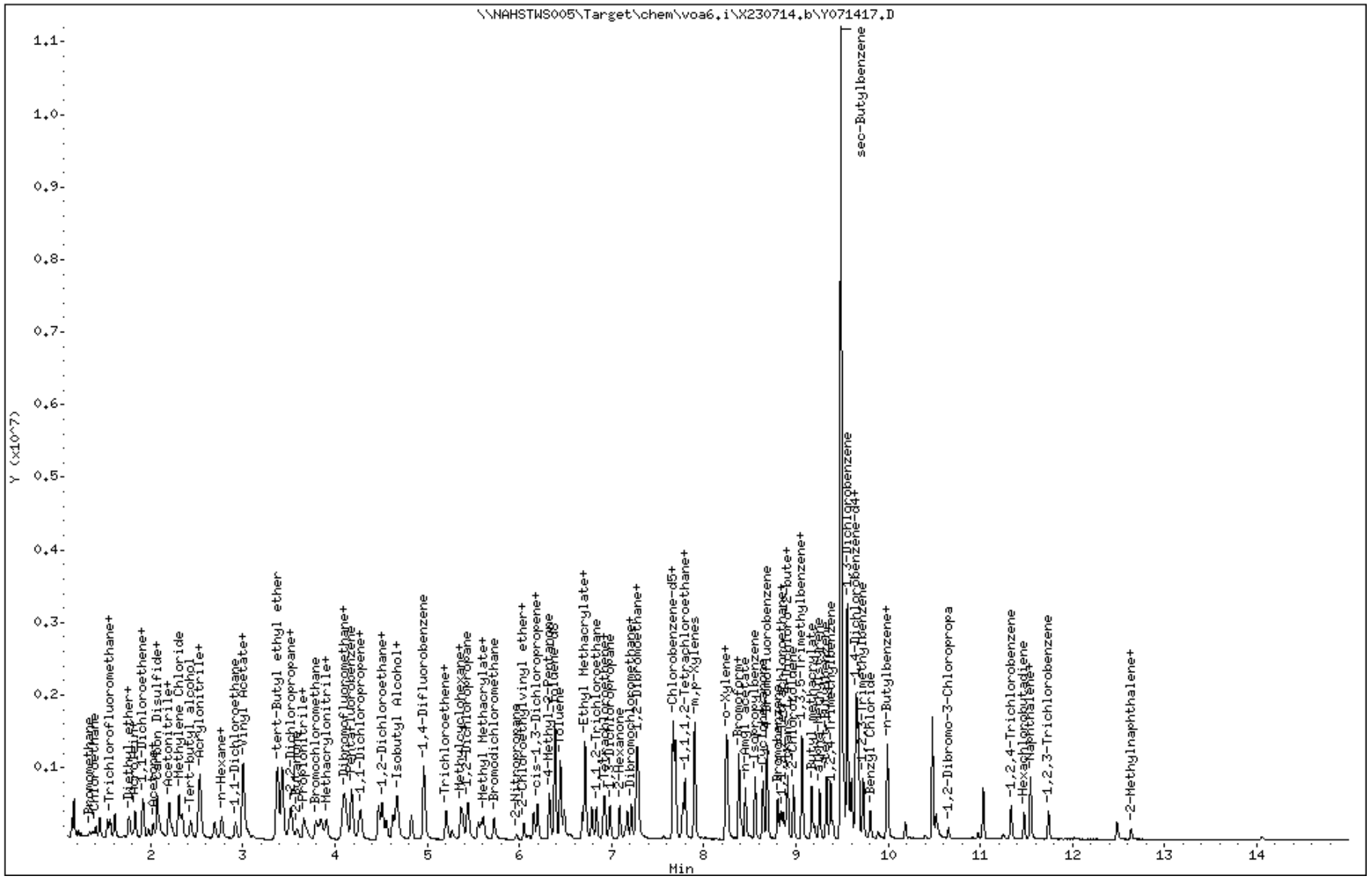
Sample Info: HS23070445104MSD;HS23070451-04MSD;3;;MSD

Purge Volume: 5.0

Operator: PC

Column phase: DB624

Column diameter: 0.18



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Inj Date : 14-JUL-2023 22:34
InstruID : voa6.i
LabSampID : HS23070451-04MSD

Chloroethane (75-00-3)

Reason Code:

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20-Jul-2023
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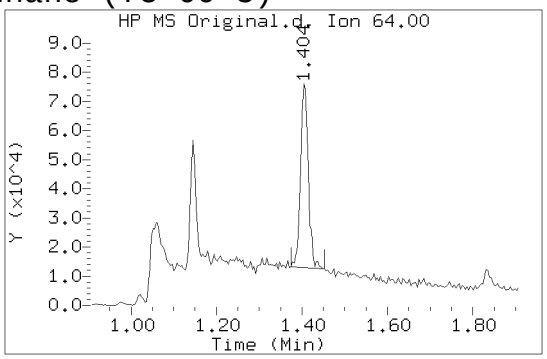

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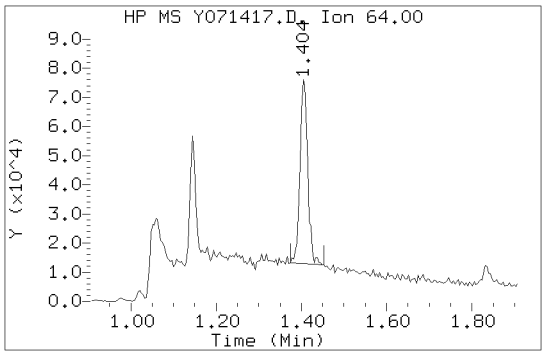

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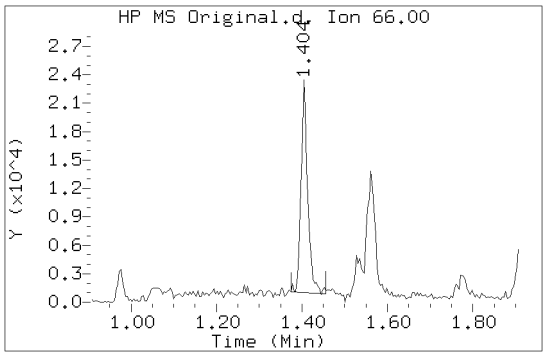

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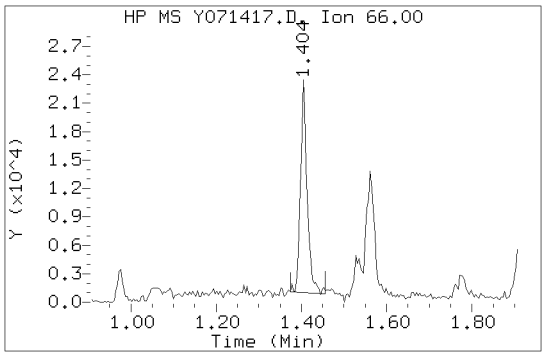

1,2,3-Trichloropropane (96-18-4)

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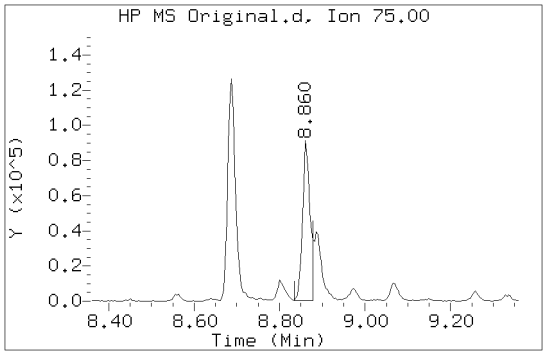

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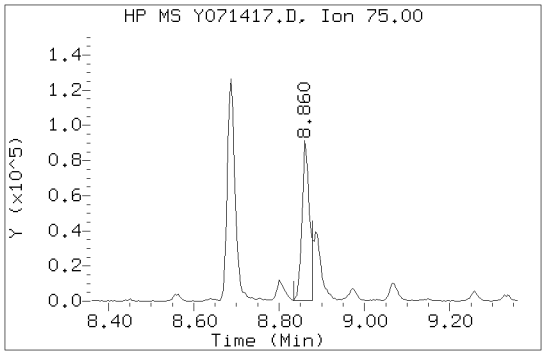

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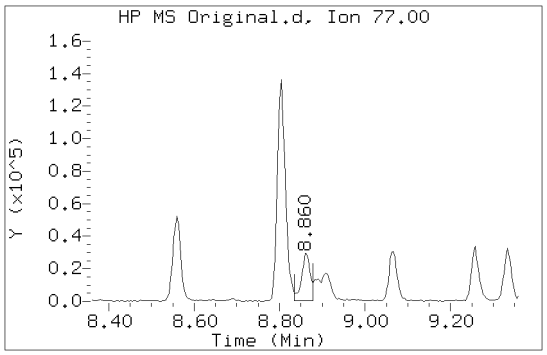

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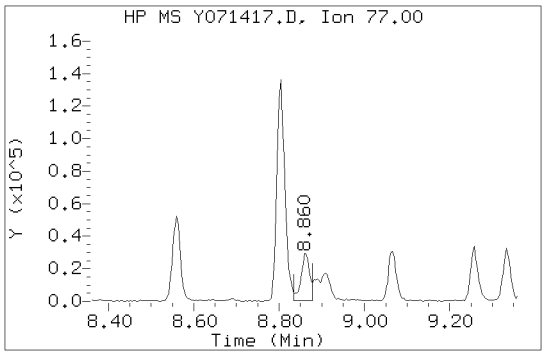

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Inj Date : 14-JUL-2023 22:34
InstruID : voa6.i
LabSampID : HS23070451-04MSD

Chloroprene (126-99-8)

Reason Code:

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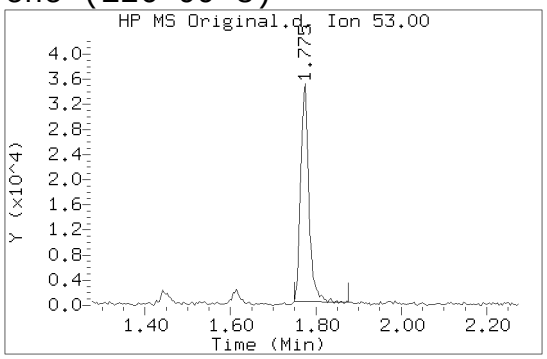

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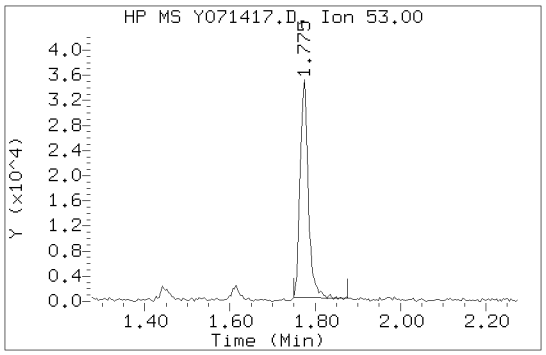

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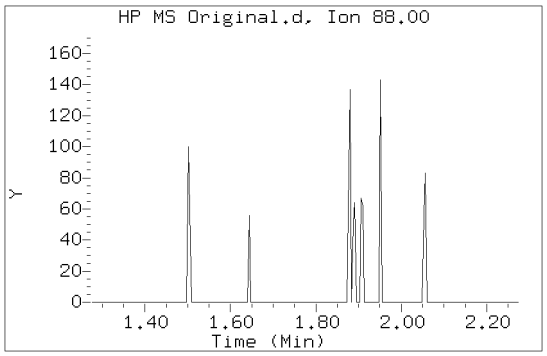

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0
20-Jul-2023
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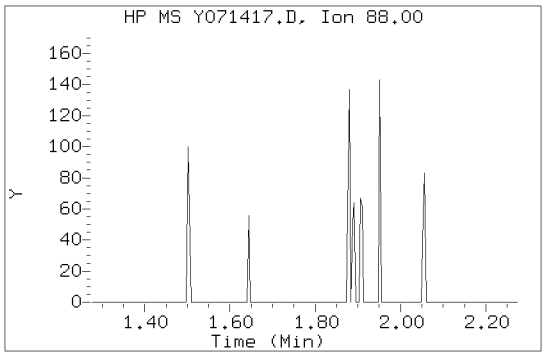


Data File: \\NAHSTWS005\Target\chem\voa6.i\X230714.b\Y071422.D Page 1
Report Date: 20-Jul-2023 15:05

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230714.b\Y071422.D
Lab Smp Id: HS23070546-02 Client Smp ID: HS23070546-02
Inj Date : 15-JUL-2023 00:17
Operator : PC Inst ID: voa6.i
Smp Info : HS23070546-02;HS23070546-02;;;
Misc Info : V6;WATER;0;5;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230714.b\8260W.m
Meth Date : 20-Jul-2023 15:05 voa6.i Quant Type: ISTD
Cal Date : 14-JUL-2023 15:25 Cal File: X071411.D
Als bottle: 37
Dil Factor: 5.00000
Integrator: HP RTE Compound Sublist: 8260_GB.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	5.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
*	1 Pentafluorobenzene	168	4.177	4.178	(1.000)	541290	50.0000	
	11 1,1-Dichloroethene	96	1.913	1.917	(0.458)	2074	0.52301	2.61(a)
	27 cis-1,2-Dichloroethene	96	3.548	3.529	(0.849)	3528	0.60375	3.01(a)
$	30 Dibromofluoromethane	113	4.099	4.099	(0.981)	262651	52.9883	52.98
$	35 1,2-Dichloroethane-d4	65	4.474	4.470	(1.071)	324516	52.3375	52.33
*	36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	807911	50.0000	
	38 Trichloroethene	130	5.205	5.205	(1.048)	163146	29.8468	149.23
*	47 Chlorobenzene-d5	117	7.667	7.668	(1.000)	729173	50.0000	
$	48 Toluene-d8	98	6.385	6.382	(0.833)	943051	50.2318	50.23
$	69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	328249	45.1711	45.17
*	70 1,4-Dichlorobenzene-d4	152	9.662	9.658	(1.000)	357583	50.0000	
M	94 1,2-Dichloroethylene (total)	96				3528	0.60375	3.01(a)

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).

01319835

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230714.b\Y071422.D

Date : 15-JUL-2023 00:17

Client ID: HS23070546-02

Instrument: voa6.i

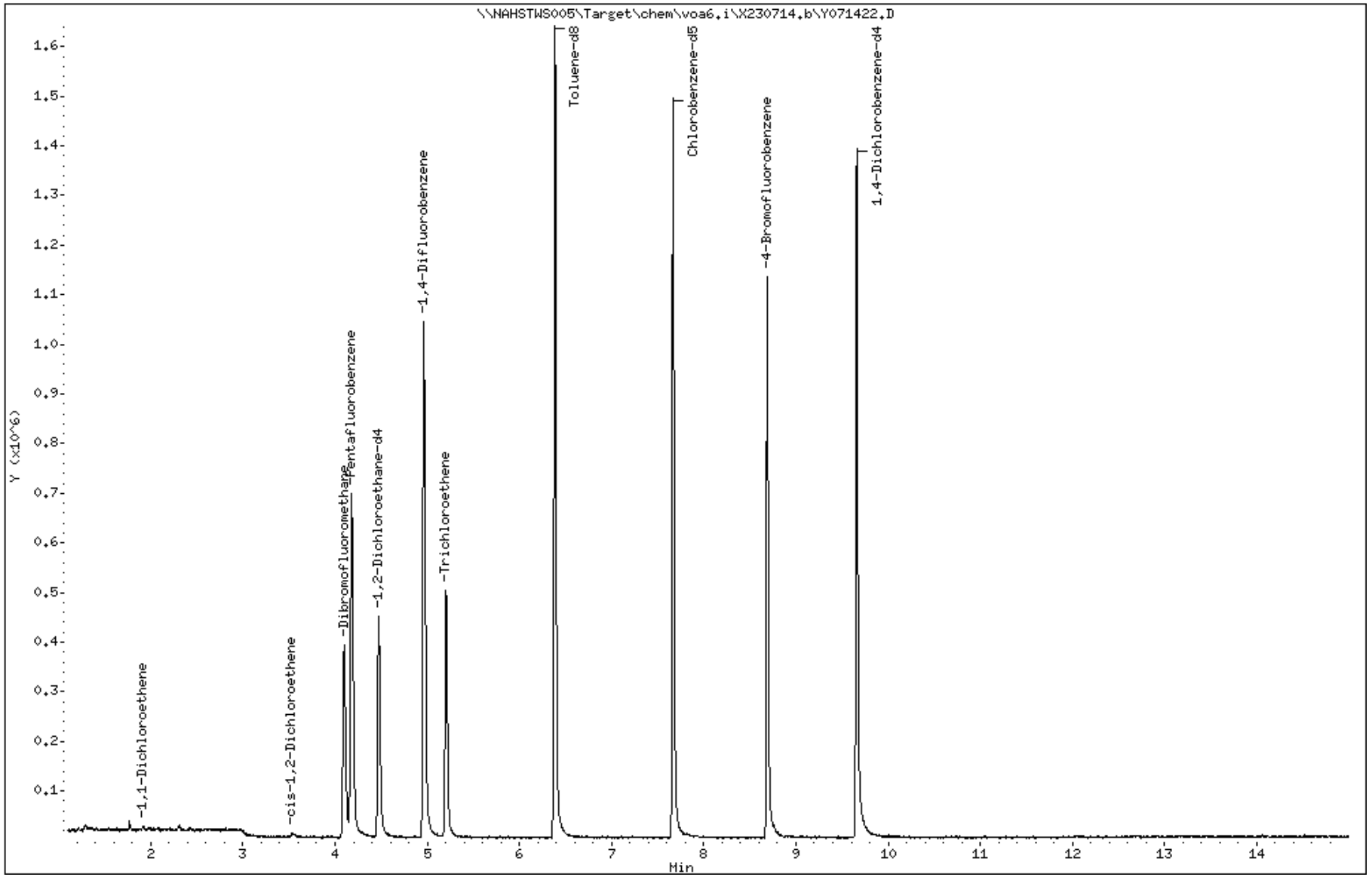
Sample Info: HS23070546-02;HS23070546-02;;;

Purge Volume: 5.0

Operator: PC

Column phase: DB624

Column diameter: 0.18



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Date : 15-JUL-2023 00:17

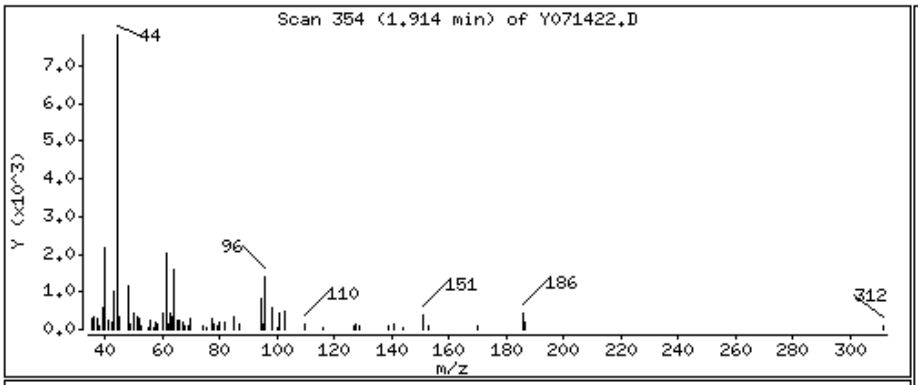
Client ID: HS23070546-02 Instrument: voa6.i

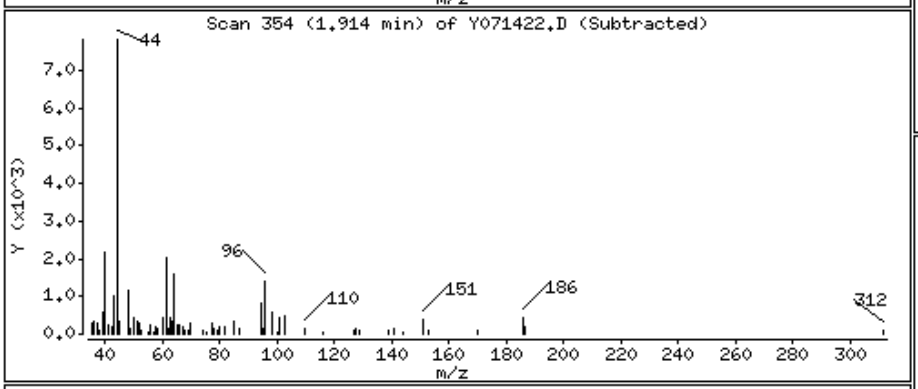
Sample Info: HS23070546-02;HS23070546-02;;;

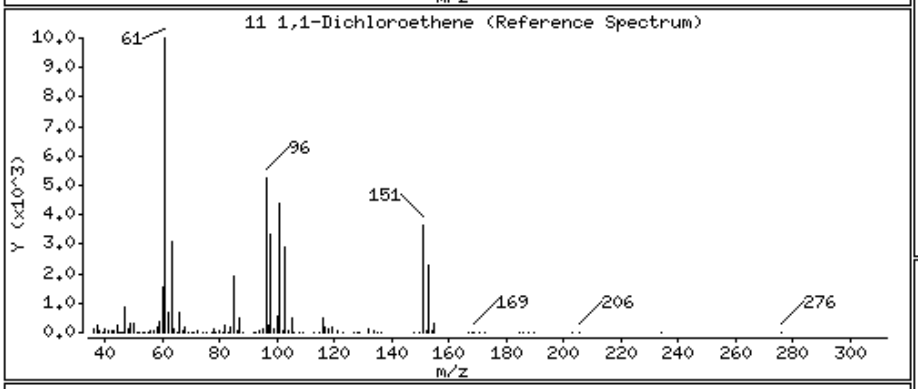
Purge Volume: 5.0 Operator: PC

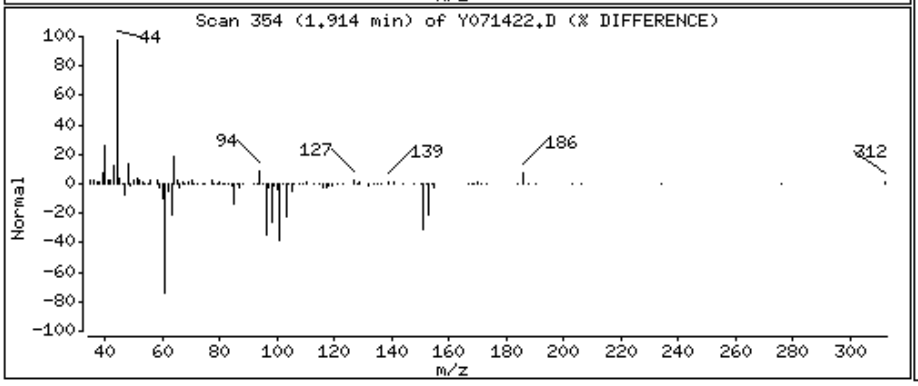
Column phase: DB624 Column diameter: 0.18

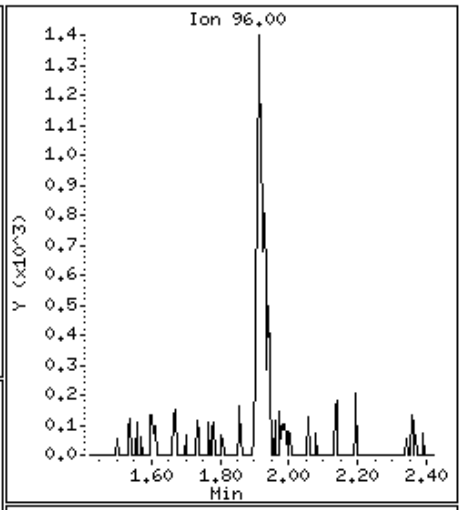
11 1,1-Dichloroethene Concentration: 2.61 ug/l

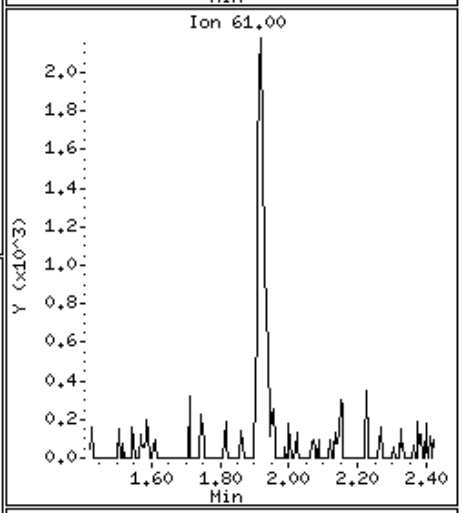


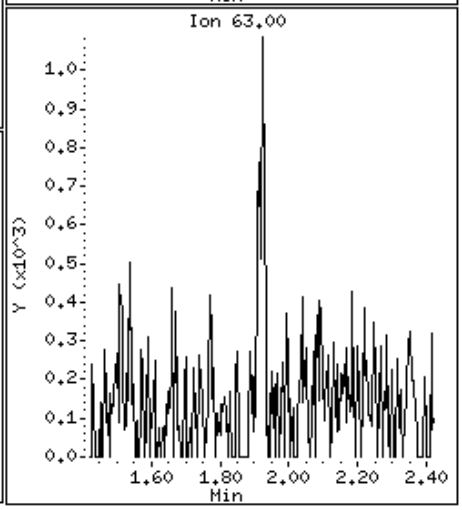












Data File: \\NAHSTWS005\Target\chem\voa6.i\X230714.b\Y071422.D

Date : 15-JUL-2023 00:17

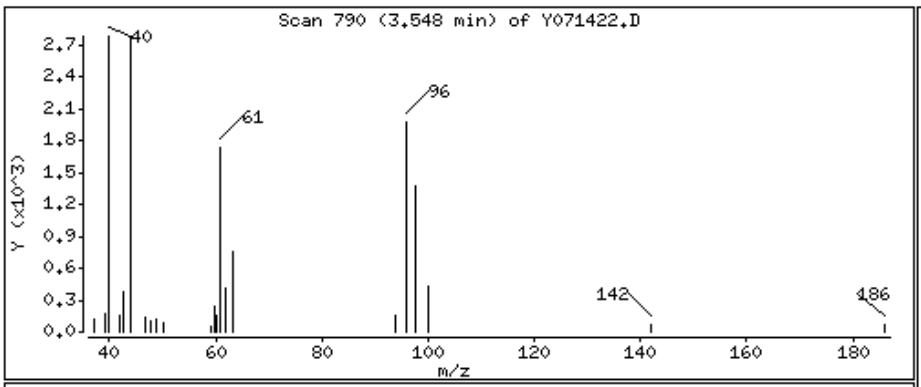
Client ID: HS23070546-02 Instrument: voa6.i

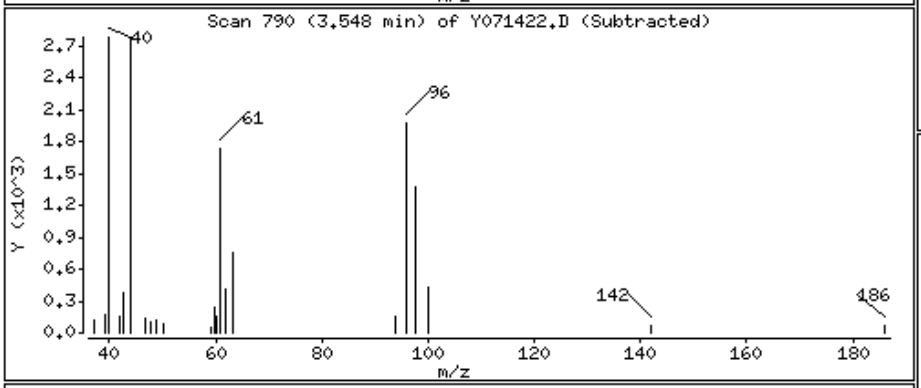
Sample Info: HS23070546-02;HS23070546-02;;;

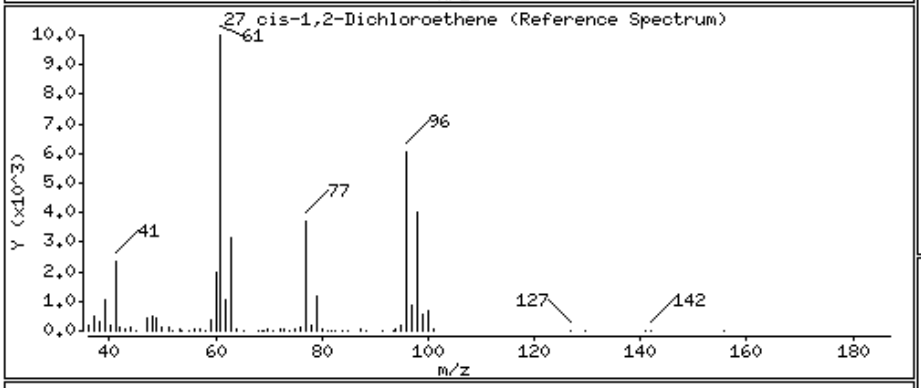
Purge Volume: 5.0 Operator: PC

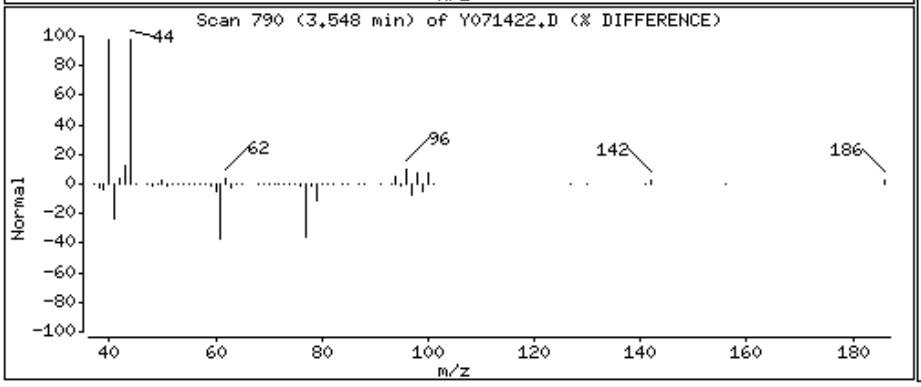
Column phase: DB624 Column diameter: 0.18

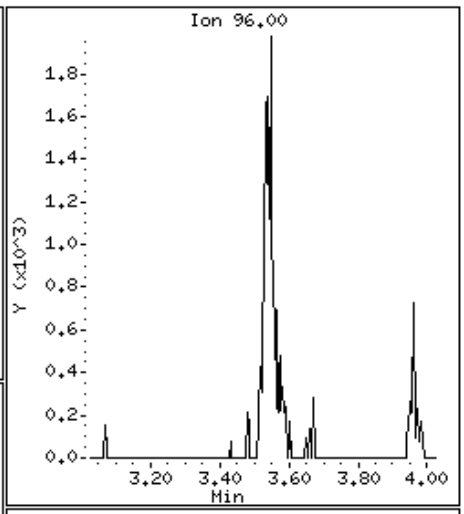
27 cis-1,2-Dichloroethene Concentration: 3.01 ug/l

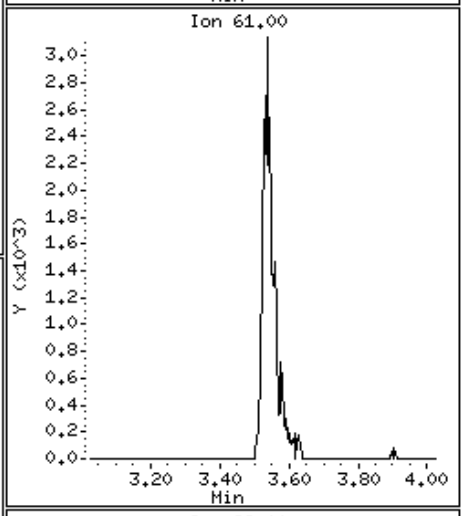


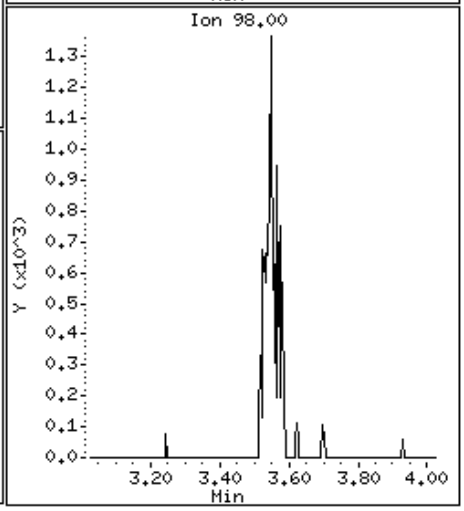












Data File: \\NAHSTWS005\Target\chem\voa6.i\X230714.b\Y071422.D Page 4

Date : 15-JUL-2023 00:17

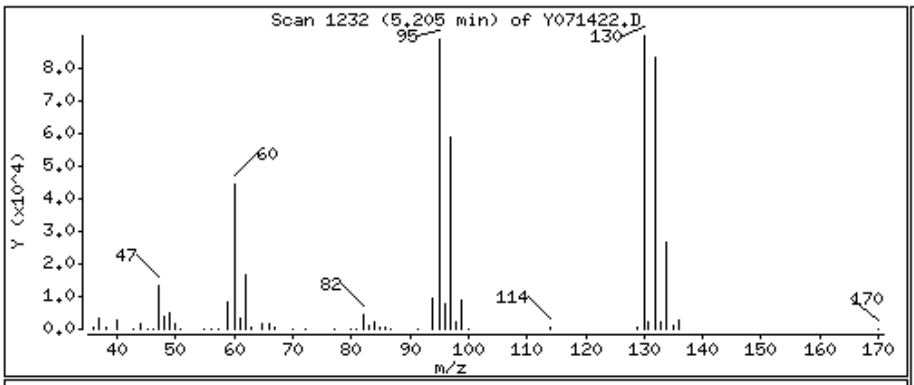
Client ID: HS23070546-02 Instrument: voa6.i

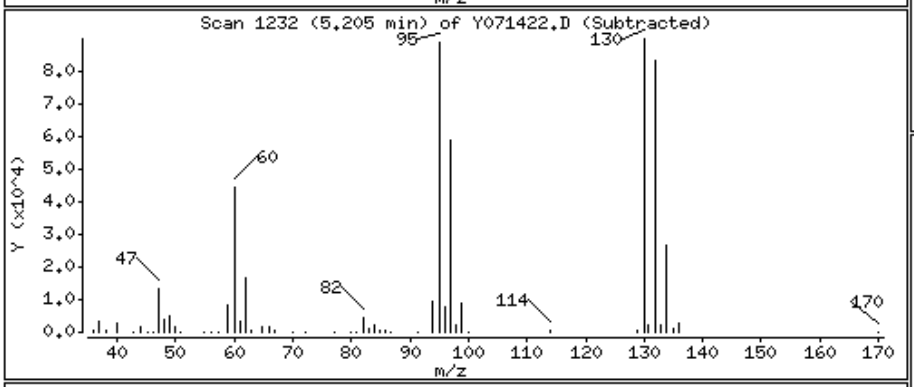
Sample Info: HS23070546-02;HS23070546-02;;;

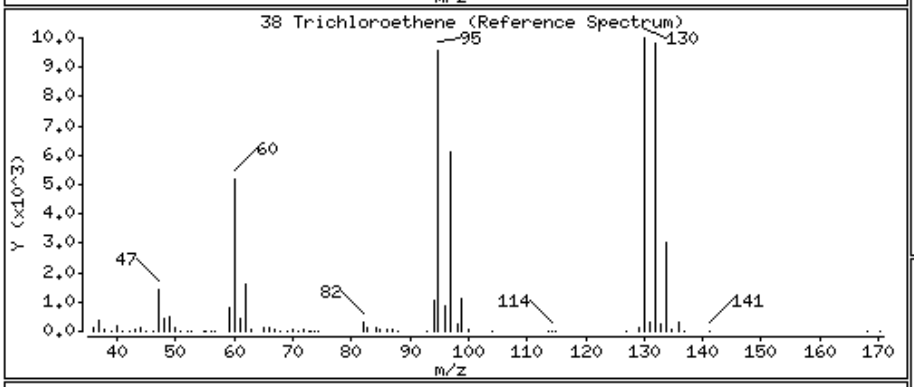
Purge Volume: 5.0 Operator: PC

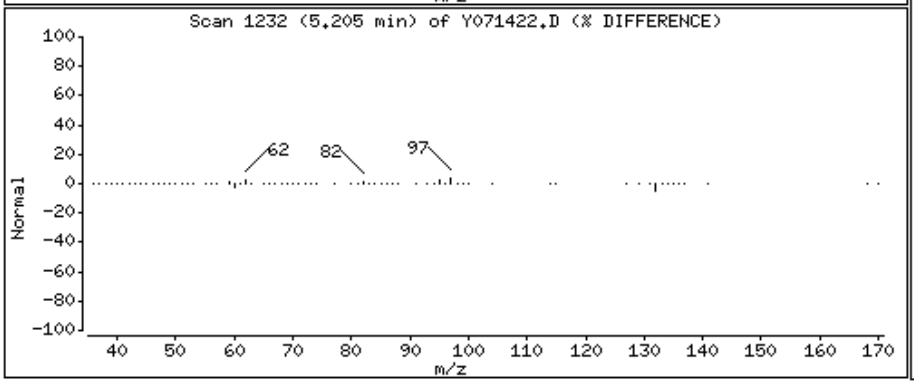
Column phase: DB624 Column diameter: 0.18

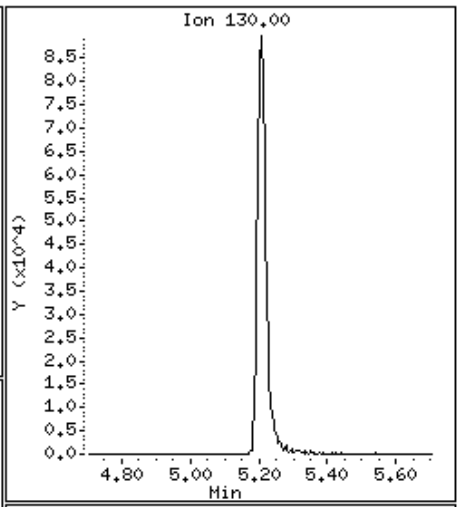
38 Trichloroethene Concentration: 149.23 ug/l

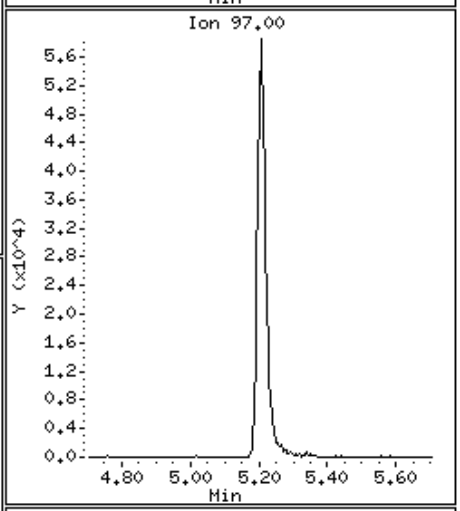


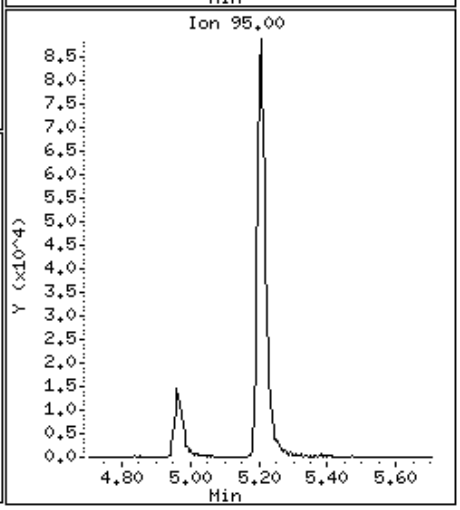












Data File : \\NAHSTWS005\Target\chem\voa6.i\X230714.b\Y071422.D
Inj Date : 15-JUL-2023 00:17
InstruID : voa6.i
LabSampID : HS23070546-02

NO MANUAL INTEGRATIONS

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230714.b\Y071423.D
Lab Smp Id: HS23070546-01 Client Smp ID: HS23070546-01
Inj Date : 15-JUL-2023 00:37
Operator : PC Inst ID: voa6.i
Smp Info : HS23070546-01;HS23070546-01;;;
Misc Info : V6;WATER;0;50;
Comment :
Method : \\NAHSTWS005\Target\chem\voa6.i\X230714.b\8260W.m
Meth Date : 20-Jul-2023 15:05 voa6.i Quant Type: ISTD
Cal Date : 14-JUL-2023 15:25 Cal File: X071411.D
Als bottle: 38
Dil Factor: 50.00000
Integrator: HP RTE Compound Sublist: 8260_GB.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	50.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.181	4.178	(1.000)	550991	50.0000	
27 cis-1,2-Dichloroethene	96	3.537	3.529	(0.846)	16799	2.82422	141.21(a)
$ 30 Dibromofluoromethane	113	4.099	4.099	(0.980)	262139	51.9390	51.93
$ 35 1,2-Dichloroethane-d4	65	4.474	4.470	(1.070)	317627	50.3006	50.30
* 36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	802158	50.0000	
38 Trichloroethene	130	5.201	5.205	(1.048)	389889	71.8400	3591.99
* 47 Chlorobenzene-d5	117	7.668	7.668	(1.000)	725579	50.0000	
$ 48 Toluene-d8	98	6.382	6.382	(0.832)	956433	51.1970	51.19
$ 69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	343695	47.5533	47.55
* 70 1,4-Dichlorobenzene-d4	152	9.662	9.658	(1.000)	381681	50.0000	
M 94 1,2-Dichloroethylene (total)	96				16799	2.82422	141.21(a)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

01319841

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230714.b\Y071423.D

Date : 15-JUL-2023 00:37

Client ID: HS23070546-01

Instrument: voa6.i

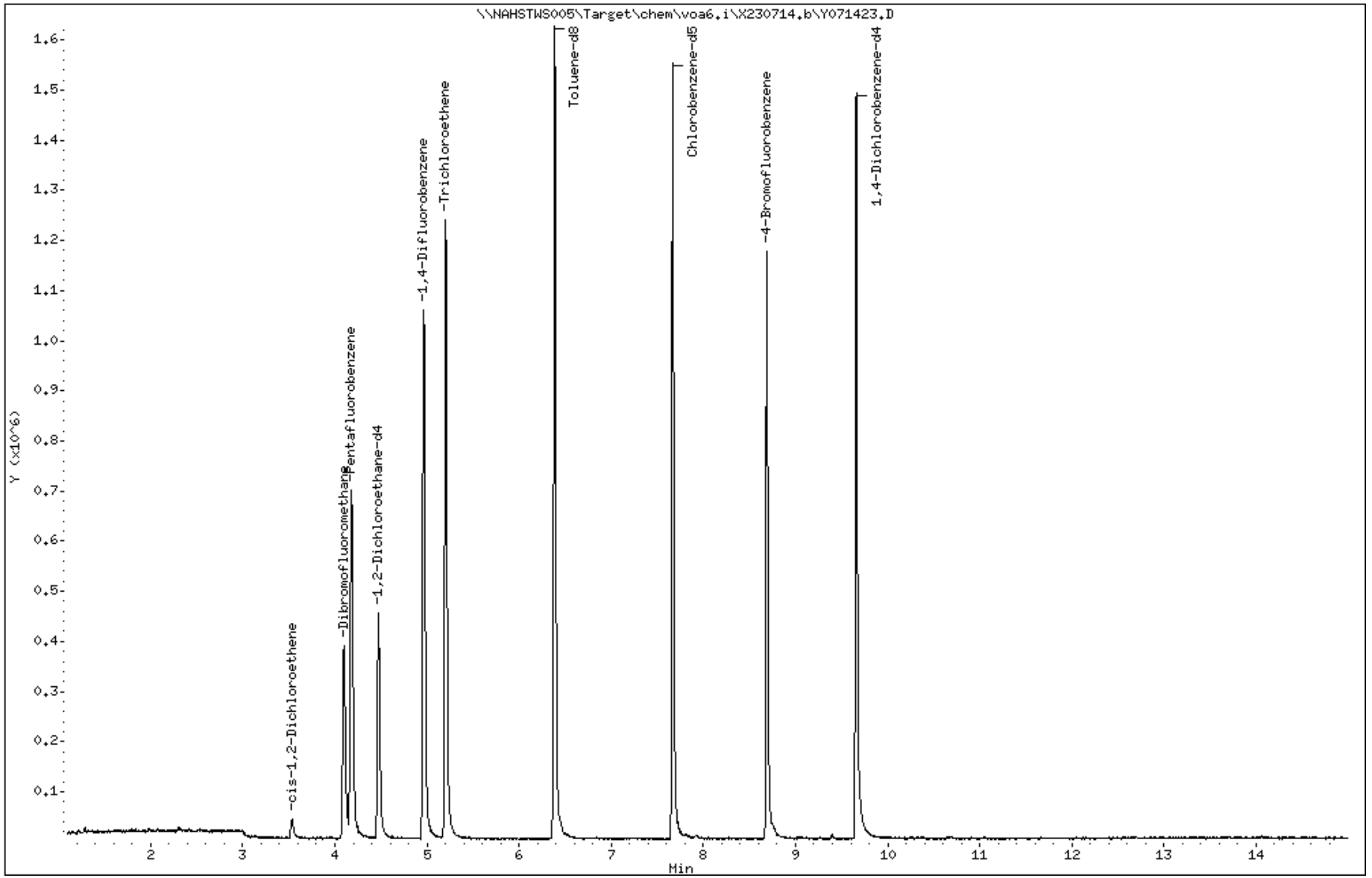
Sample Info: HS23070546-01;HS23070546-01;;;

Purge Volume: 5.0

Operator: PC

Column phase: DB624

Column diameter: 0.18



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Date : 15-JUL-2023 00:37

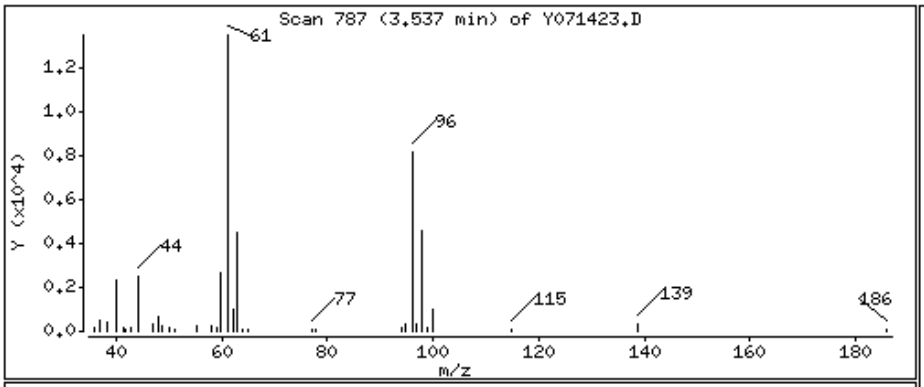
Client ID: HS23070546-01 Instrument: voa6.i

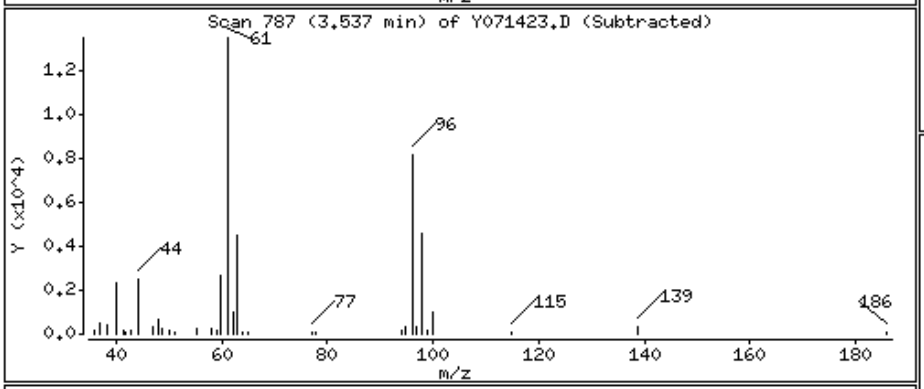
Sample Info: HS23070546-01;HS23070546-01;;;

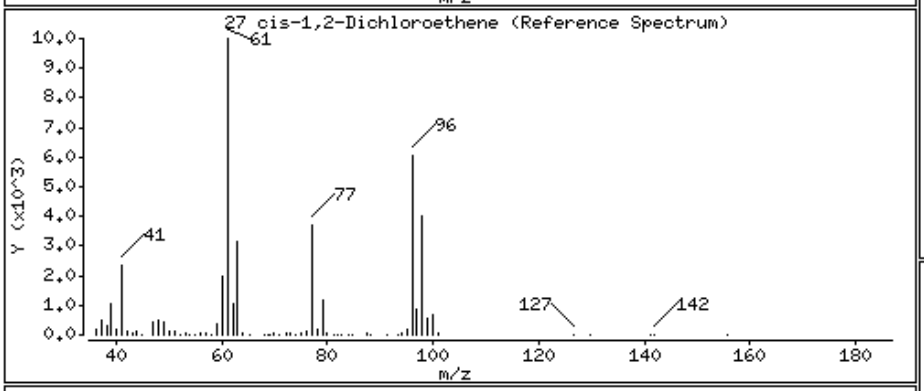
Purge Volume: 5.0 Operator: PC

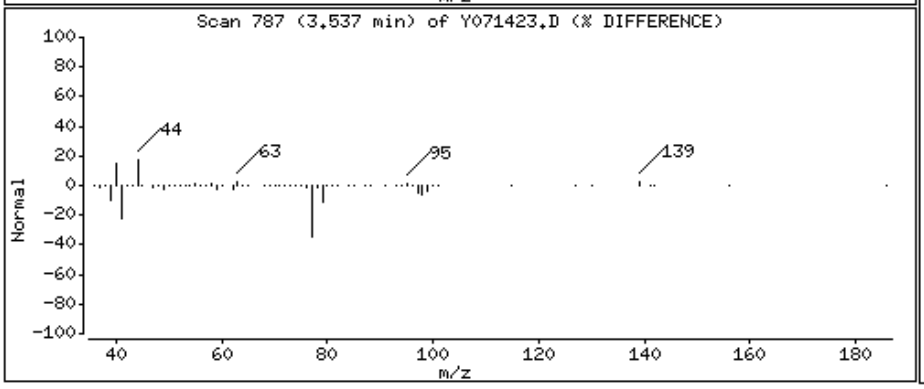
Column phase: DB624 Column diameter: 0.18

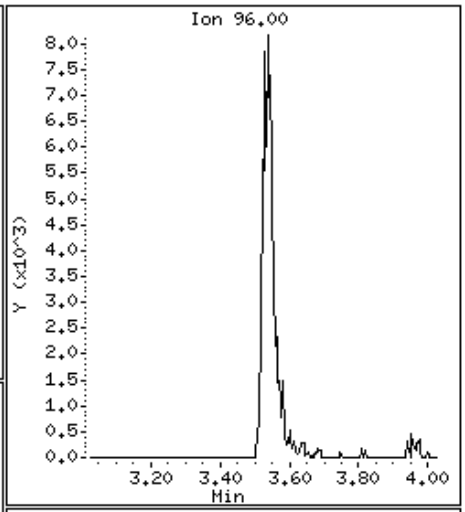
27 cis-1,2-Dichloroethene Concentration: 141.21 ug/l

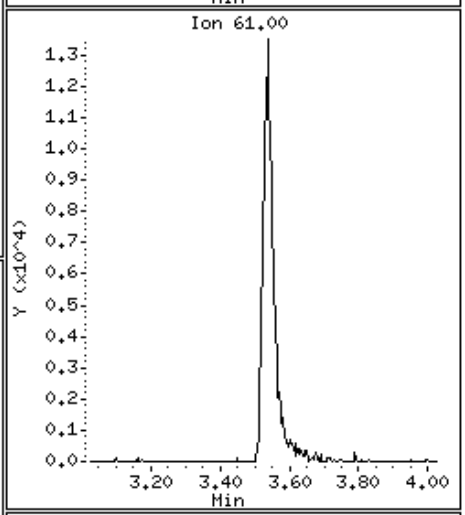


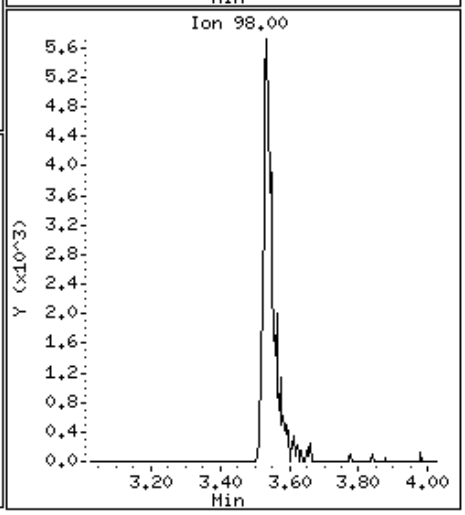












Data File: \\NAHSTWS005\Target\chem\voa6.i\X230714.b\Y071423.D Page 3

Date : 15-JUL-2023 00:37

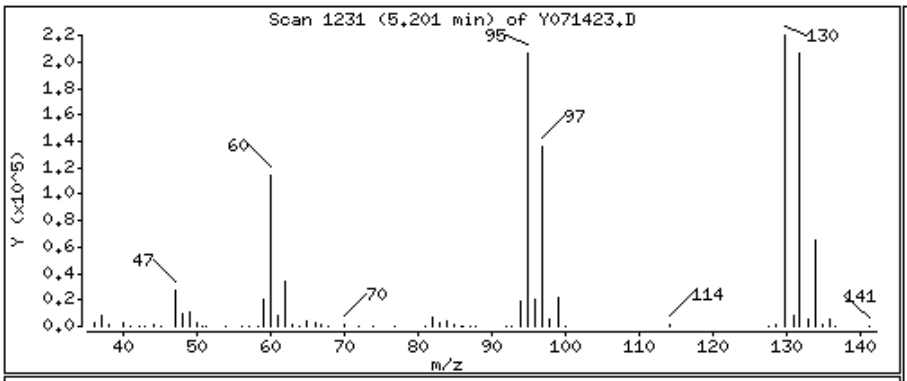
Client ID: HS23070546-01 Instrument: voa6.i

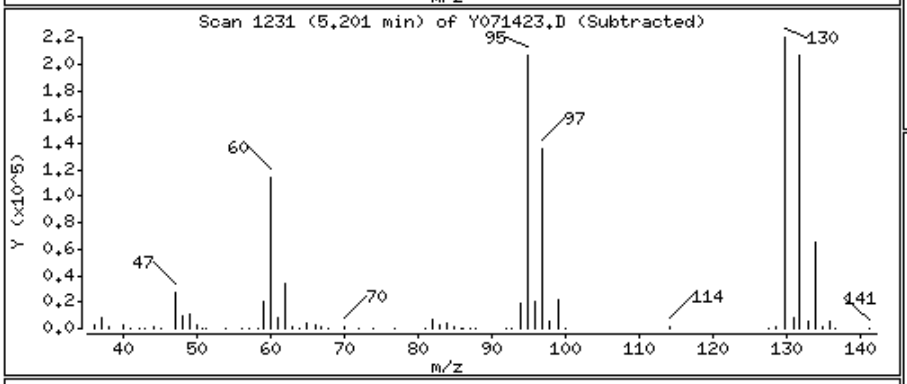
Sample Info: HS23070546-01;HS23070546-01;;;

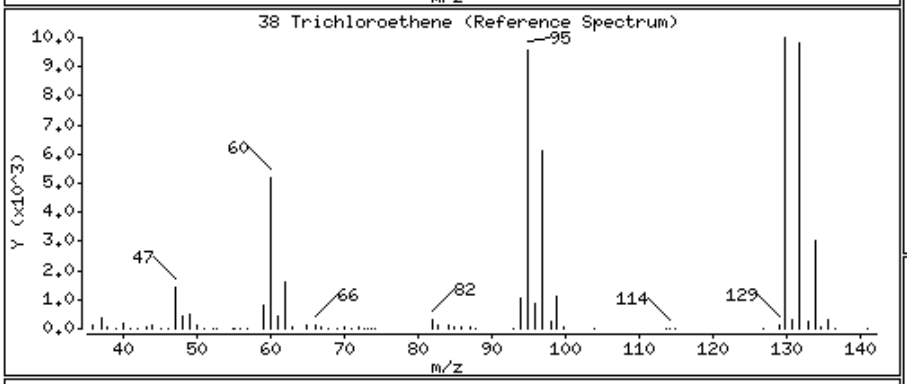
Purge Volume: 5.0 Operator: PC

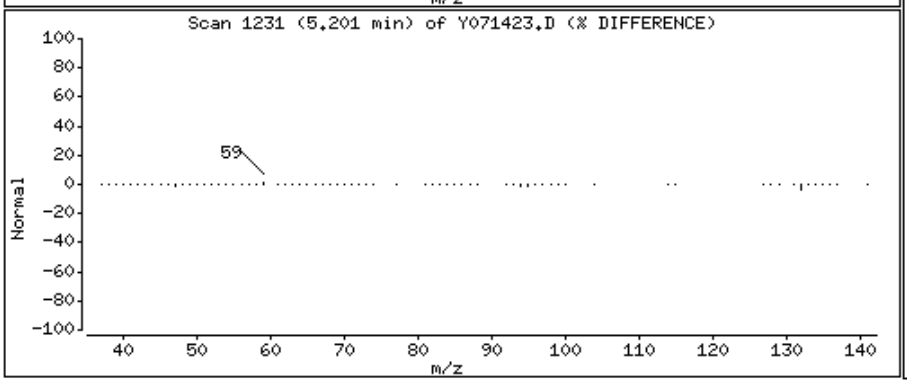
Column phase: DB624 Column diameter: 0.18

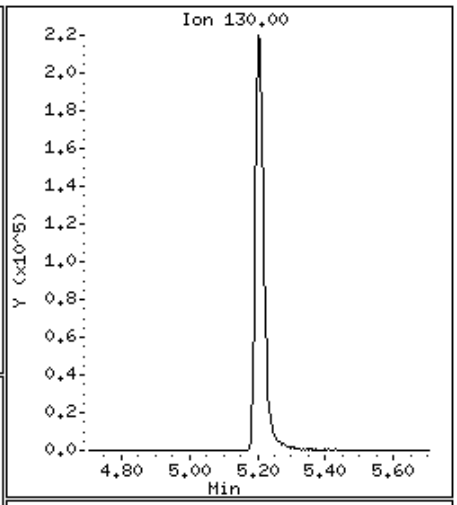
38 Trichloroethene Concentration: 3591.99 ug/l

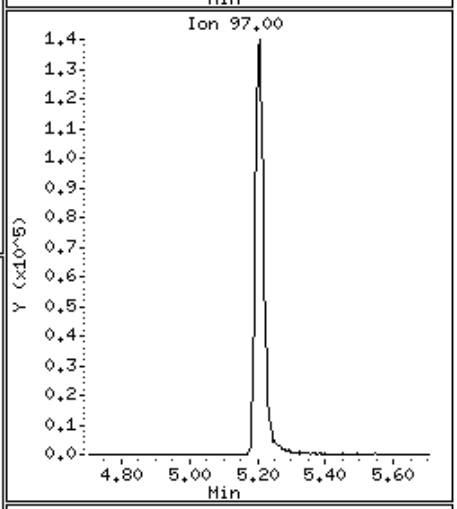


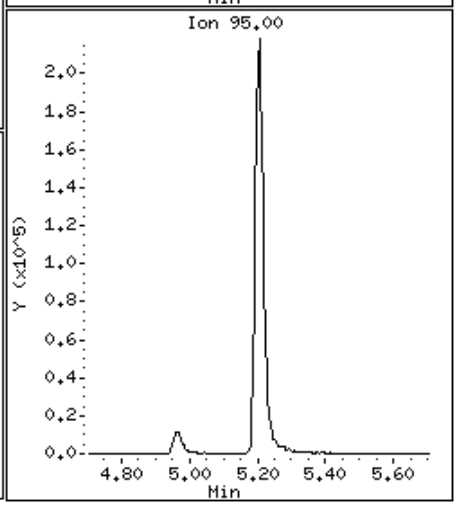












Data File : \\NAHSTWS005\Target\chem\voa6.i\X230714.b\Y071423.D
Inj Date : 15-JUL-2023 00:37
InstruID : voa6.i
LabSampID : HS23070546-01

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230714.b\Y071431.D Page 1
Report Date: 20-Jul-2023 15:06

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230714.b\Y071431.D
Lab Smp Id: CCV-END Client Smp ID: CCV-END
Inj Date : 15-JUL-2023 03:21
Operator : PC Inst ID: voa6.i
Smp Info : CCV-END;CCV-END;2;;
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230714.b\8260W.m
Meth Date : 20-Jul-2023 15:06 voa6.i Quant Type: ISTD
Cal Date : 14-JUL-2023 15:25 Cal File: X071411.D
Als bottle: 46 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1 Pentafluorobenzene	168	4.178	4.178	(1.000)	498591	50.0000	
135 1,4-Dioxane	88	5.598	5.598	(1.340)	62211	1000.00	1050.00
140 1,3-Butadiene	54	1.167	1.167	(0.280)	352654	50.0000	55.04
25 Methacrylonitrile	41	3.822	3.822	(0.915)	355816	50.0000	55.28
12 Isobutyl Alcohol	43	4.680	4.680	(1.120)	1046258	1000.00	1107.02
13 Acetonitrile	39	2.198	2.198	(0.526)	392322	500.000	561.13
14 Allyl Chloride	41	2.198	2.198	(0.526)	930715	50.0000	56.85
4 Propionitrile	54	3.657	3.657	(0.875)	527829	500.000	534.41
72 trans-1,4-Dichloro-2-butene	53	8.886	8.886	(1.159)	119618	50.0000	52.15
194 Acetaldehyde	44	1.212	1.212	(0.290)	133374	200.000	309.24
23 Chloroprene	53	1.775	1.775	(0.425)	139701	50.0000	62.31(M)
130 Ethyl Acetate	43	3.660	3.660	(0.876)	399063	50.0000	53.88
40 Methyl Methacrylate	41	5.606	5.606	(1.342)	311031	50.0000	51.68
49 Ethyl Methacrylate	69	6.712	6.712	(1.352)	257881	50.0000	48.48
131 Methyl Acrylate	55	3.694	3.694	(0.884)	342131	50.0000	50.48
132 n-Butanol	56	5.261	5.261	(1.259)	174745	1000.00	1052.82
136 n-Hexane	57	2.772	2.772	(0.664)	290318	50.0000	58.04
139 Diethyl ether	59	1.760	1.760	(0.421)	265258	50.0000	57.05
142 Tetrahydrofuran	42	3.852	3.852	(0.922)	139019	100.000	108.37
145 alpha-Methylstyrene	118	9.257	9.257	(0.958)	457957	50.0000	51.47

156 Diisopropyl ether	45	3.004	3.004 (0.719)	1116399	50.0000	54.32
162 Butyl acrylate	55	8.249	8.249 (1.076)	755847	50.0000	52.68

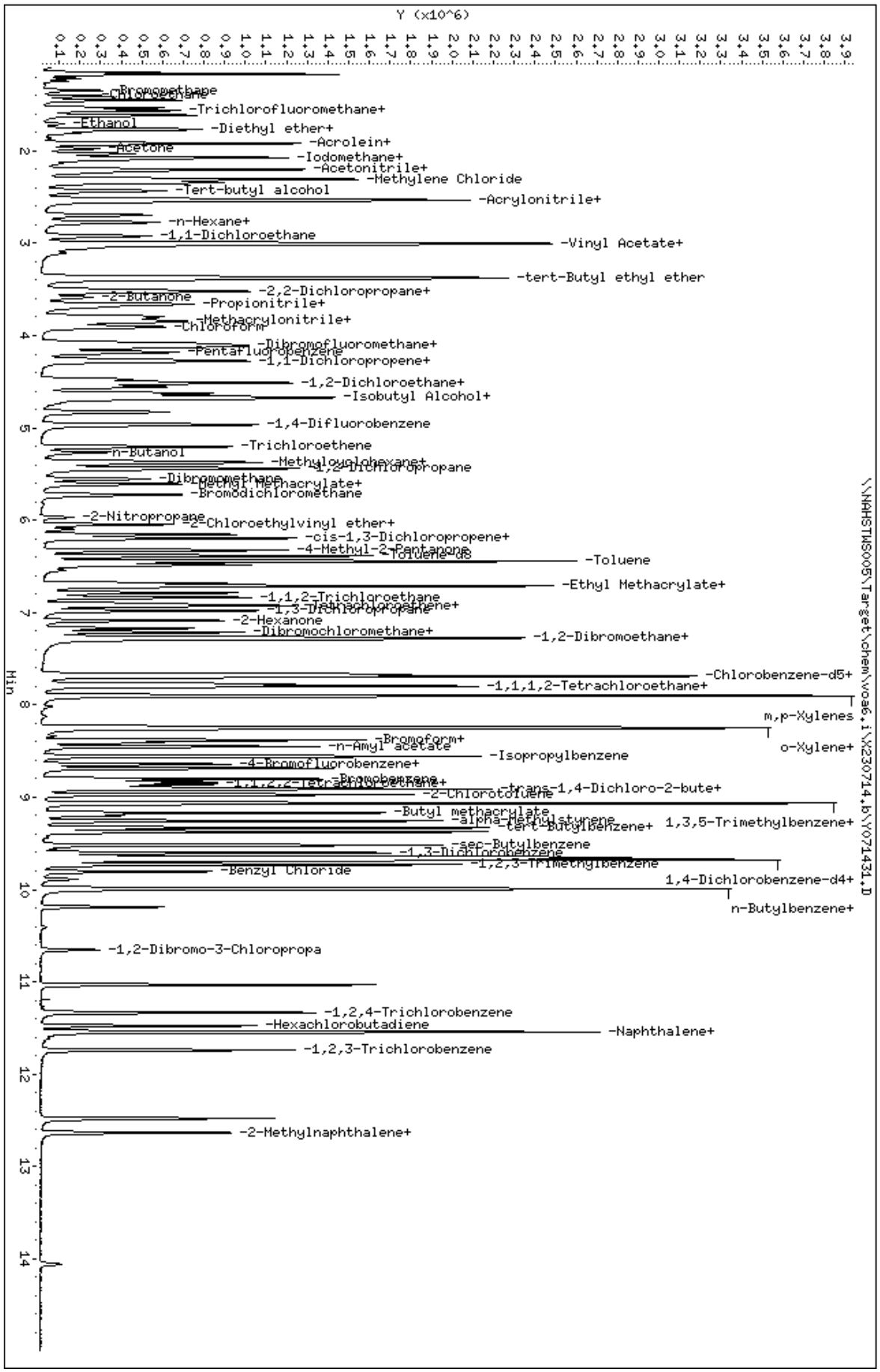
		QUANT SIG					AMOUNTS CAL-AMT	AMOUNTS ON-COL
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/l)	(ug/l)
	167 Ethanol	45	1.704	1.704	(0.408)	86546	1000.00	1245.74
	200 Dimethyl Disulfide	94	6.194	6.194	(0.808)	528176	50.0000	51.92
	182 Epichlorohydrin	57	6.097	6.097	(1.228)	123773	200.000	204.04
	164 Dicyclopentadiene	66	9.681	9.681	(1.002)	1102955	50.0000	46.95
	166 1,2,3-Trimethylbenzene	105	9.726	9.726	(1.007)	920215	50.0000	48.81
	205 2-Ethylhexyl Acrylate	55	11.547	11.547	(1.196)	567910	50.0000	54.52
	86 Benzyl Chloride	91	9.804	9.804	(1.279)	467439	50.0000	37.06
	134 Cyclohexanone	55	8.642	8.642	(0.895)	360604	1000.00	993.25
	133 Ethyl Acrylate	55	5.381	5.381	(1.288)	836982	50.0000	50.65
	163 Butyl methacrylate	41	9.167	9.167	(0.949)	495577	50.0000	50.73
	188 Isopropyl acetate	43	4.680	4.680	(0.943)	1047574	50.0000	48.92
	189 n-Butyl acetate	43	7.210	7.210	(0.940)	585458	50.0000	50.65
	2 Dichlorodifluoromethane	85	0.976	0.976	(0.234)	270993	50.0000	53.06
	3 Chloromethane	50	1.081	1.081	(0.259)	315370	50.0000	41.87
	5 Vinyl Chloride	62	1.145	1.145	(0.274)	351070	50.0000	54.41
	6 Bromomethane	94	1.344	1.344	(0.322)	133355	50.0000	49.94
	7 Chloroethane	64	1.407	1.407	(0.337)	196480	50.0000	53.34
	8 Trichlorofluoromethane	101	1.565	1.565	(0.375)	391716	50.0000	59.90
	9 Acrolein	56	1.865	1.865	(0.446)	27523	100.000	145.26
	10 Acetone	43	1.977	1.977	(0.473)	235262	100.000	120.20
	11 1,1-Dichloroethene	96	1.921	1.921	(0.460)	201230	50.0000	55.09
	15 Iodomethane	142	2.030	2.030	(0.486)	438581	100.000	91.58
	16 Acrylonitrile	53	2.536	2.536	(0.607)	253159	100.000	104.19
	17 Methylene Chloride	84	2.303	2.303	(0.551)	249631	50.0000	58.13
	18 Methyl tert-butyl ether	73	2.539	2.539	(0.608)	685004	50.0000	50.42
	19 Carbon Disulfide	76	2.071	2.071	(0.496)	1228851	100.000	107.02
	20 trans-1,2-Dichloroethene	96	2.532	2.532	(0.606)	223090	50.0000	52.80
	21 Vinyl Acetate	43	2.997	2.997	(0.717)	1754846	100.000	100.42
	22 1,1-Dichloroethane	63	2.922	2.922	(0.699)	519159	50.0000	55.99
	24 2-Butanone	43	3.582	3.582	(0.857)	299073	100.000	112.63
	26 2,2-Dichloropropane	77	3.510	3.510	(0.840)	335312	50.0000	46.60
	27 cis-1,2-Dichloroethene	96	3.525	3.525	(0.844)	282994	50.0000	52.57
	28 Chloroform	83	3.908	3.908	(0.935)	487940	50.0000	51.43
	29 Bromochloromethane	128	3.799	3.799	(0.909)	155498	50.0000	51.54
$	30 Dibromofluoromethane	113	4.099	4.099	(0.981)	246227	50.0000	53.94
	31 1,1,1-Trichloroethane	97	4.080	4.080	(0.977)	405744	50.0000	55.55
	32 1,1-Dichloropropene	75	4.279	4.279	(0.862)	346027	50.0000	52.23
	33 1,2-Dichloroethane	62	4.556	4.556	(0.918)	448268	50.0000	50.14
	34 Carbon Tetrachloride	117	4.264	4.264	(0.859)	340158	50.0000	50.97
$	35 1,2-Dichloroethane-d4	65	4.470	4.470	(1.070)	297413	50.0000	52.07
*	36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	812111	50.0000	
	37 Benzene	78	4.511	4.511	(0.909)	1001376	50.0000	51.55
	38 Trichloroethene	130	5.205	5.205	(1.048)	288443	50.0000	52.49
	39 Bromodichloromethane	83	5.726	5.726	(1.153)	371196	50.0000	49.88
	41 2-Chloroethylvinyl ether	63	6.044	6.044	(1.217)	246384	100.000	108.45
	42 1,2-Dichloropropane	63	5.437	5.437	(1.095)	331319	50.0000	53.04
	44 Dibromomethane	93	5.553	5.553	(1.119)	175813	50.0000	49.72
	45 4-Methyl-2-Pentanone	43	6.326	6.326	(0.825)	731952	100.000	98.63
	46 cis-1,3-Dichloropropene	75	6.153	6.153	(1.239)	430116	50.0000	50.32
*	47 Chlorobenzene-d5	117	7.668	7.668	(1.000)	754079	50.0000	
$	48 Toluene-d8	98	6.386	6.386	(0.833)	903636	50.0000	46.54
	50 Toluene	91	6.442	6.442	(0.840)	1063294	50.0000	52.38

51	trans-1,3-Dichloropropene	75	6.682	6.682 (1.346)	357981	50.0000	49.69
52	2-Hexanone	43	7.087	7.087 (0.924)	498648	100.000	102.29

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
53	1,1,2-Trichloroethane	83	6.839	6.839	(0.892)	214500	50.0000	49.81
54	1,3-Dichloropropane	76	6.978	6.978	(0.910)	435978	50.0000	49.55
55	Dibromochloromethane	129	7.173	7.173	(0.935)	319505	50.0000	51.39
56	Tetrachloroethene	164	6.925	6.925	(0.903)	221974	50.0000	52.93
57	1,2-Dibromoethane	107	7.259	7.259	(0.947)	241929	50.0000	49.16
58	1-Chlorohexane	55	7.694	7.694	(1.550)	318807	50.0000	48.86
59	Chlorobenzene	112	7.690	7.690	(1.003)	716586	50.0000	50.50
60	1,1,1,2-Tetrachloroethane	131	7.773	7.773	(1.014)	281977	50.0000	50.76
61	Ethylbenzene	106	7.795	7.795	(1.017)	361113	50.0000	50.75
62	m,p-Xylenes	106	7.900	7.900	(1.030)	920119	100.000	103.07
63	o-Xylene	106	8.237	8.237	(1.074)	434543	50.0000	51.40
64	Styrene	104	8.256	8.256	(1.077)	757154	50.0000	51.35
66	Bromoform	173	8.406	8.406	(1.096)	201792	50.0000	50.59
67	Isopropylbenzene	105	8.560	8.560	(1.116)	1149373	50.0000	52.89
68	1,1,2,2-Tetrachloroethane	83	8.837	8.837	(0.915)	321212	50.0000	46.89
$ 69	4-Bromofluorobenzene	95	8.687	8.687	(1.133)	374832	50.0000	49.92
* 70	1,4-Dichlorobenzene-d4	152	9.658	9.658	(1.000)	407806	50.0000	
71	1,2,3-Trichloropropane	75	8.860	8.860	(0.917)	264138	50.0000	48.59(M)
73	n-Propylbenzene	91	8.908	8.908	(0.922)	1300856	50.0000	52.78
74	Bromobenzene	156	8.803	8.803	(0.912)	325110	50.0000	50.97
75	1,3,5-Trimethylbenzene	105	9.062	9.062	(0.938)	946022	50.0000	51.24
76	2-Chlorotoluene	91	8.972	8.972	(0.929)	835034	50.0000	50.23
77	4-Chlorotoluene	91	9.066	9.066	(0.939)	941233	50.0000	51.52
78	tert-Butylbenzene	119	9.332	9.332	(0.966)	821573	50.0000	51.89
79	1,2,4-Trimethylbenzene	105	9.377	9.377	(0.971)	945171	50.0000	51.05
81	sec-Butylbenzene	105	9.519	9.519	(0.986)	1127144	50.0000	53.41
82	p-Isopropyltoluene	119	9.647	9.647	(0.999)	979861	50.0000	50.83
83	1,3-Dichlorobenzene	146	9.602	9.602	(0.994)	564565	50.0000	50.81
84	1,4-Dichlorobenzene	146	9.677	9.677	(1.002)	589093	50.0000	48.35
87	n-Butylbenzene	91	9.992	9.992	(1.035)	831956	50.0000	51.53
88	1,2-Dichlorobenzene	146	9.988	9.988	(1.034)	558264	50.0000	51.10
89	1,2-Dibromo-3-Chloropropane	155	10.652	10.652	(1.103)	54619	50.0000	48.54
90	1,2,4-Trichlorobenzene	180	11.334	11.334	(1.173)	352442	50.0000	46.97
91	Hexachlorobutadiene	225	11.476	11.476	(1.188)	159689	50.0000	46.37
92	Naphthalene	128	11.540	11.540	(1.195)	891008	50.0000	47.98
93	1,2,3-Trichlorobenzene	180	11.739	11.739	(1.215)	328980	50.0000	46.88
M 94	1,2-Dichloroethylene (total)	96				506084	100.000	(a)
141	Cyclohexane	56	4.121	4.121	(0.987)	501637	50.0000	58.04
138	Freon TF	101	1.921	1.921	(0.460)	192690	50.0000	60.44
147	Methylcyclohexane	55	5.381	5.381	(1.084)	836982	50.0000	48.82
146	Methyl Acetate	43	2.236	2.236	(0.535)	279902	50.0000	63.07
148	Tert-Butyl alcohol	59	2.431	2.431	(0.582)	654542	1000.00	1040.12
149	Isopropyl Alcohol	45	2.093	2.093	(0.501)	404892	1000.00	1036.91

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.



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Date : 15-JUL-2023 03:21
Client ID: CCV-END
Sample Info: CCV-END;CCV-END;2;;
Purge Volume: 5.0
Column phase: DB624

Instrument: voa6.i
Operator: PC
Column diameter: 0.18

Data File : \\NAHSTWS005\Target\chem\voa6.i\X230714.b\Y071431.D
Inj Date : 15-JUL-2023 03:21
InstruID : voa6.i
LabSampID : CCV-END

1,2,3-Trichloropropane (96-18-4)

Reason Code:

BEFORE

MASS
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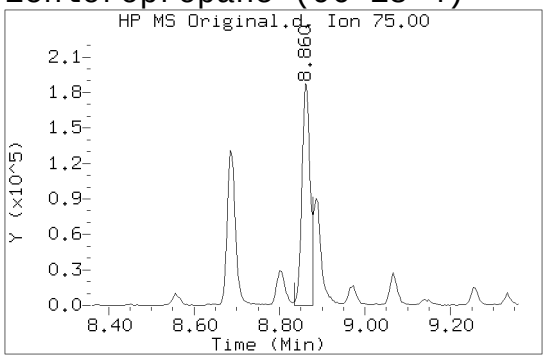
HEIGHT
187349
20-Jul-2023
15:04
linh
pham



AFTER

MASS
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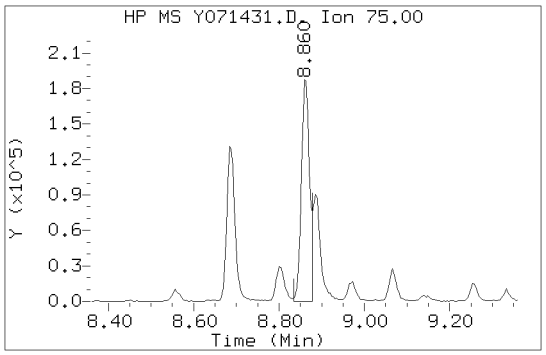

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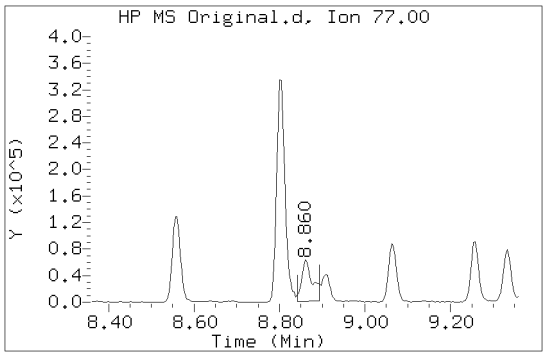

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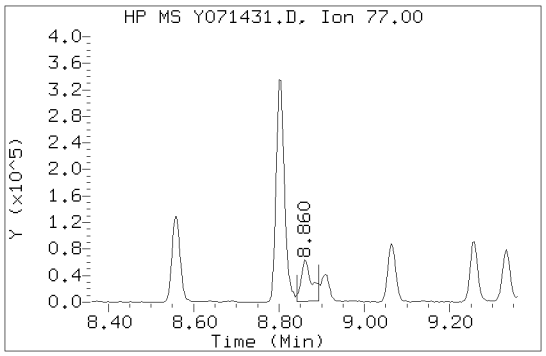

Chloroprene (126-99-8)

Reason Code:

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20-Jul-2023
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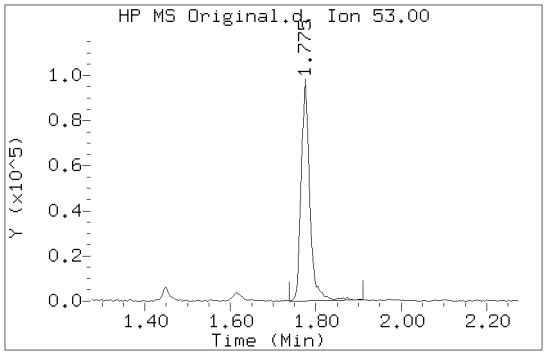

AFTER

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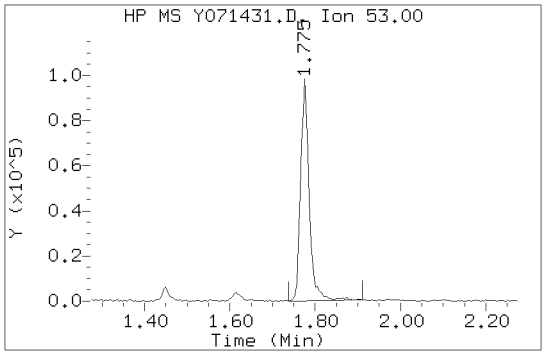

BEFORE

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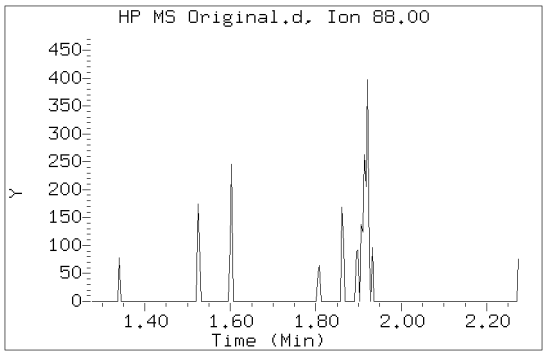

AFTER

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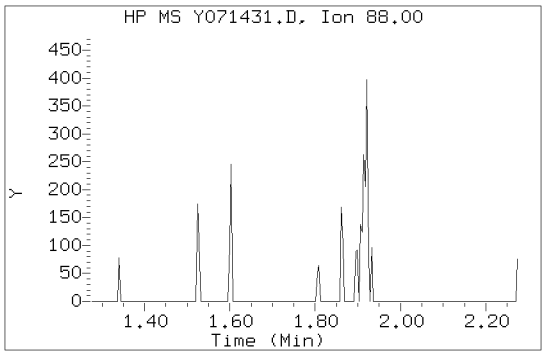


right solutions.
right partner.

Raw Data VOA6 441608

Volatiles by EPA 8260

Workorder

HS23070546

Client

Bhate Environmental Associates, Inc.

Project

LHAAP Site 16

07/25/2023

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230717.b\Y071701.D Page 1
Report Date: 17-Jul-2023 23:04

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230717.b\Y071701.D
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 17-JUL-2023 21:49
Operator : PC Inst ID: voa6.i
Smp Info : BFB;BFB;3;;BFB
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230717.b\bfb.m
Meth Date : 14-Mar-2023 15:45 Linh.Pham Quant Type: ISTD
Cal Date : Cal File:
Als bottle: 32 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: NAHSTW7051

Concentration Formula: Amt * DF * Uf * Vf * Vi * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vf	1.000	Volumetric correction factor
Vi	2.000	Injection Volume
Cpnd Variable		Local Compound Variable

					CONCENTRATIONS ON-COL (ug/L)	CONCENTRATIONS FINAL (ug/l)		
RT	EXP RT	REL RT	MASS	RESPONSE			TARGET RANGE	RATIO
1 bfb							CAS #: 460-00-4	
8.687	8.889	(0.000)	95	242112			0.00- 100.00	100.00
8.687	8.889	(0.000)	50	58328			15.00- 40.00	24.09
8.687	8.889	(0.000)	75	119560			30.00- 60.00	49.38
8.687	8.889	(0.000)	96	18168			5.00- 9.00	7.50
8.687	8.889	(0.000)	173	0	0.0	0.0	0.00- 2.00	0.00
8.687	8.889	(0.000)	174	191680			50.00- 0.00	79.17
8.687	8.889	(0.000)	175	16776			5.00- 9.00	8.75
8.687	8.889	(0.000)	176	189824			95.00- 101.00	99.03
8.687	8.889	(0.000)	177	12662			5.00- 9.00	6.67

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	24.09
75	30.00 - 60.00% of mass 95	49.38
96	5.00 - 9.00% of mass 95	7.50
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	79.17
175	5.00 - 9.00% of mass 174	6.93 (8.75)
176	95.00 - 101.00% of mass 174	78.40 (99.03)
177	5.00 - 9.00% of mass 176	5.23 (6.67)

Data File: Y071701.D
Spectrum: Scan 2159 (8.68)
Location of Maximum: 95.00
Number of points: 118

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	2799	68.00	23392	103.20	165	142.90	1792
37.10	15285	69.10	24232	103.80	986	143.90	263
38.10	11971	70.00	3620	104.90	592	144.90	181
39.10	6965	71.10	611	105.80	1369	145.80	291
40.00	5226	72.10	1006	106.90	1916	146.90	248
41.00	3828	73.00	8651	108.00	107	148.00	686
42.10	4777	74.00	37808	108.80	689	148.70	347
43.10	2800	75.10	119560	109.80	158	149.90	197
44.00	3880	76.10	10448	110.80	151	151.90	179
45.00	3888	77.10	1175	111.70	362	152.70	361
45.90	64	78.00	1157	112.80	394	154.90	1290
47.00	4831	79.00	4552	114.80	211	156.00	55
48.00	2110	79.90	2199	116.00	798	156.90	360
49.00	13079	80.90	6237	116.80	1743	158.80	193
50.00	58328	81.80	1144	117.90	946	160.80	467
51.10	18624	83.10	597	118.90	1286	169.80	66
52.00	938	84.90	119	123.90	179	170.40	285
53.00	379	86.00	904	124.80	51	172.20	706
54.00	669	87.10	8401	125.90	64	174.00	191680
55.00	6654	88.00	11488	126.90	434	175.00	16776
56.10	5094	90.90	1311	127.90	1412	176.00	189824
57.00	9551	92.10	6449	128.90	506	177.00	12662
57.90	607	93.10	8800	130.00	1266	177.80	1090
60.00	2549	94.10	28504	131.10	609	184.80	94
61.00	12419	95.00	242112	135.00	546	185.80	91
62.00	11335	96.00	18168	136.70	422	205.90	171
63.00	8070	97.20	939	139.00	126	234.00	371
64.00	1157	98.00	2438	139.80	193	235.90	89
65.00	95	98.90	186	140.90	2265		
66.90	842	102.80	254	142.10	356		

Data File: \\nahstws005\target\chem\voa6.i\x230717.b\y071701.d Page 1

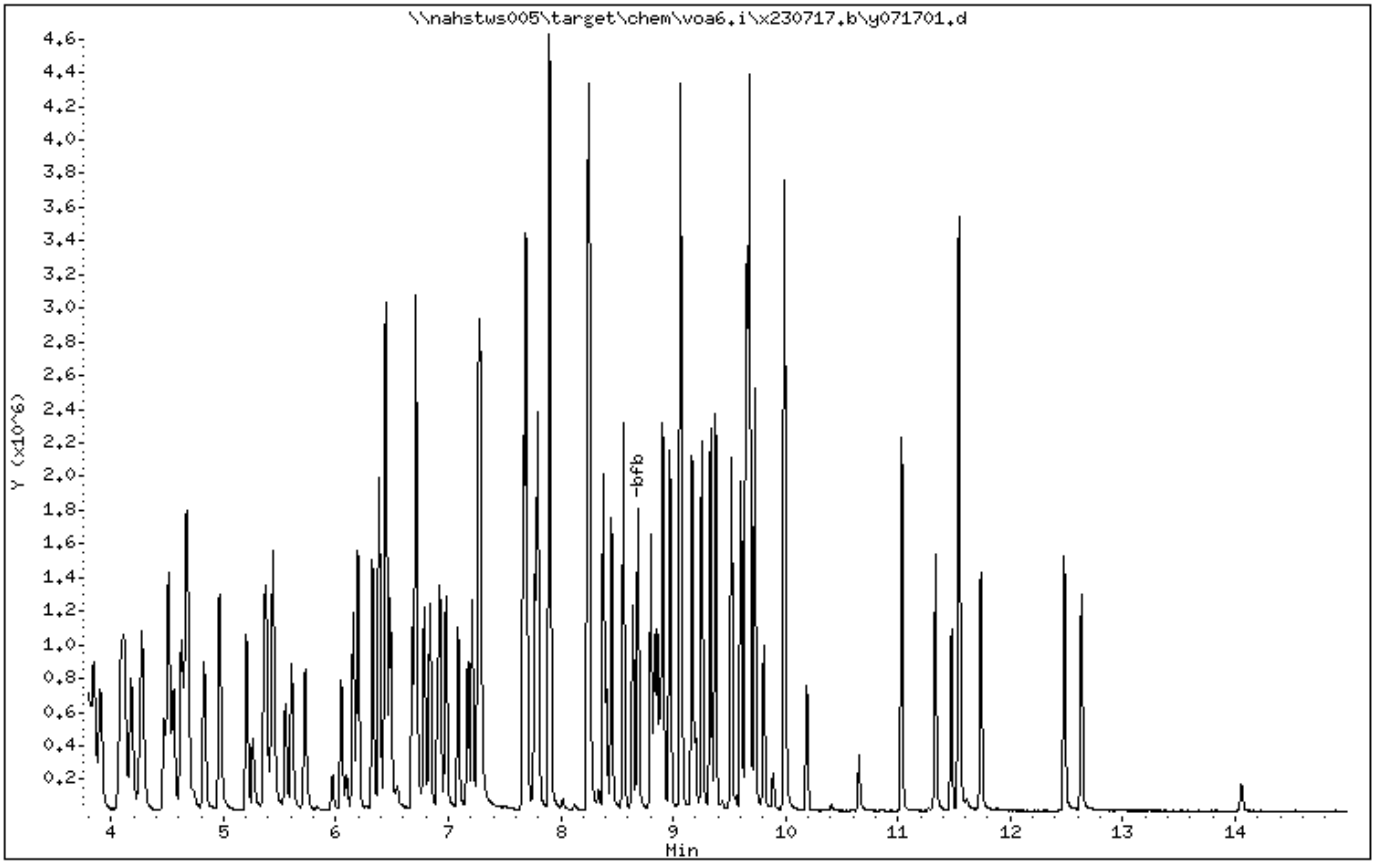
Date : 17-JUL-2023 21:49

Client ID: BFB Instrument: voa6.i

Sample Info: BFB;BFB;3;;BFB

Volume Injected (uL): 2.0 Operator: PC

Column phase: DB624 Column diameter: 0.25



Data File : \\nahstws005\target\chem\voa6.i\x230717.b\y071701.d
Inj Date : 17-JUL-2023 21:49
InstruID : voa6.i
LabSampID : BFB

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230717.b\Y071703.D Page 1
Report Date: 20-Jul-2023 15:02

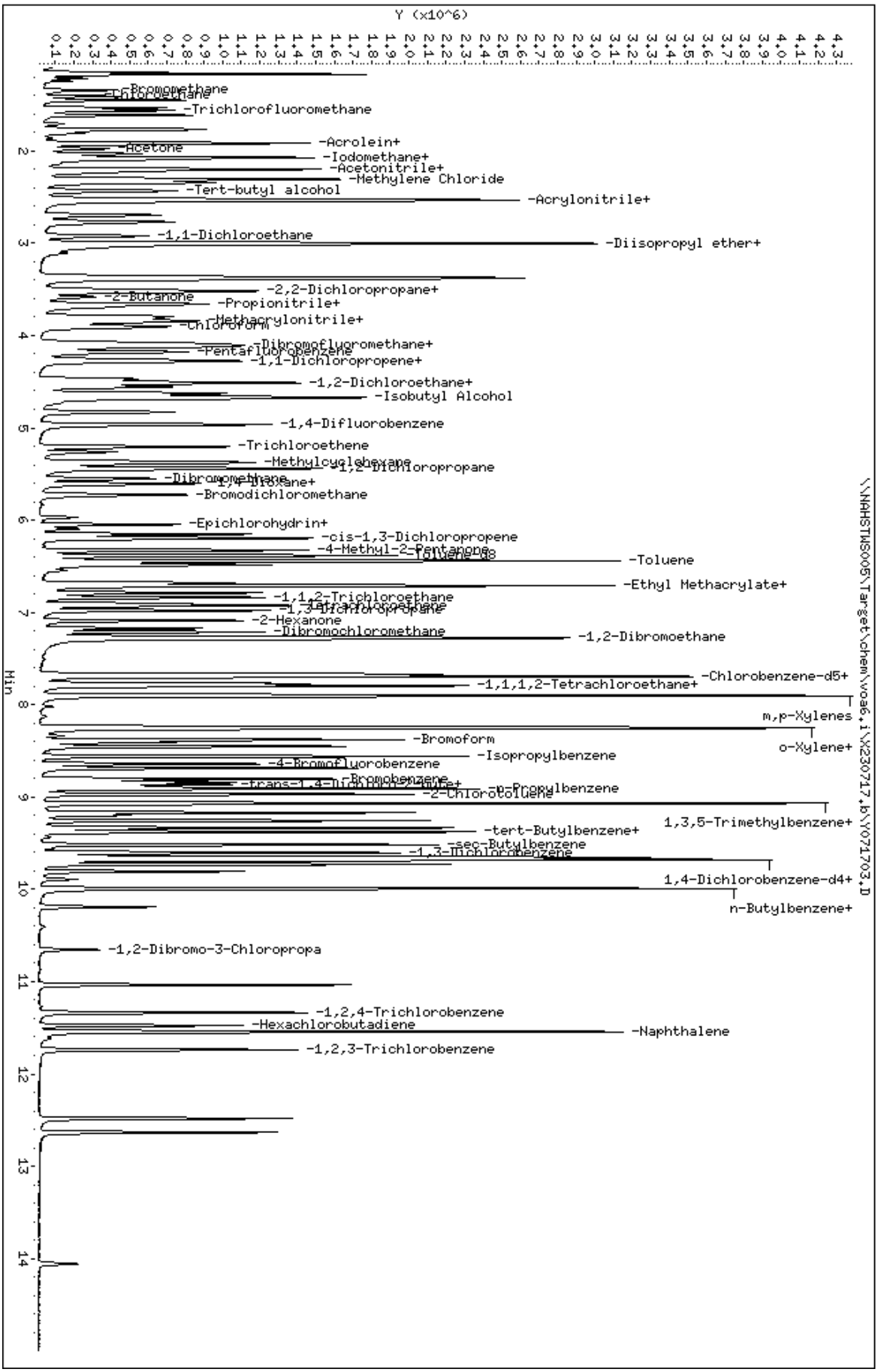
ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230717.b\Y071703.D
Lab Smp Id: CCV Client Smp ID: CCV
Inj Date : 17-JUL-2023 22:30
Operator : PC Inst ID: voa6.i
Smp Info : CCV;CCV;2;;
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230717.b\8260W.m
Meth Date : 20-Jul-2023 15:02 voa6.i Quant Type: ISTD
Cal Date : 14-JUL-2023 14:24 Cal File: X071408.D
Als bottle: 33 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 0474-dod.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)
* 1 Pentafluorobenzene	168	4.177	4.177	(1.000)	600874	50.0000	
$ 30 Dibromofluoromethane	113	4.099	4.099	(0.981)	290020	50.0000	52.70
$ 35 1,2-Dichloroethane-d4	65	4.470	4.470	(1.070)	351519	50.0000	51.05
* 36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	980784	50.0000	
* 47 Chlorobenzene-d5	117	7.667	7.667	(1.000)	907491	50.0000	
$ 48 Toluene-d8	98	6.385	6.385	(0.833)	1070967	50.0000	45.83
$ 69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	454478	50.0000	50.30
* 70 1,4-Dichlorobenzene-d4	152	9.658	9.658	(1.000)	480551	50.0000	
5 Vinyl Chloride	62	1.145	1.145	(0.274)	423998	50.0000	54.52
11 1,1-Dichloroethene	96	1.917	1.917	(0.459)	230999	50.0000	52.47
17 Methylene Chloride	84	2.303	2.303	(0.551)	292354	50.0000	56.45
27 cis-1,2-Dichloroethene	96	3.529	3.529	(0.845)	328539	50.0000	50.64
33 1,2-Dichloroethane	62	4.556	4.556	(0.918)	518861	50.0000	48.05
38 Trichloroethene	130	5.205	5.205	(1.048)	328395	50.0000	49.48
53 1,1,2-Trichloroethane	83	6.839	6.839	(0.892)	256806	50.0000	49.55
20 trans-1,2-Dichloroethene	96	2.528	2.528	(0.605)	265628	50.0000	52.16



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230717.b\Y071703.D
Date : 17-JUL-2023 22:30
Client ID: CCV
Sample Info: CCV,CCV,2,,
Purge Volume: 5.0
Column phase: DB624

Instrument: voa6.i
Operator: PC
Column diameter: 0.18

Data File : \\NAHSTWS005\Target\chem\voa6.i\X230717.b\Y071703.D
Inj Date : 17-JUL-2023 22:30
InstruID : voa6.i
LabSampID : CCV

NO MANUAL INTEGRATIONS

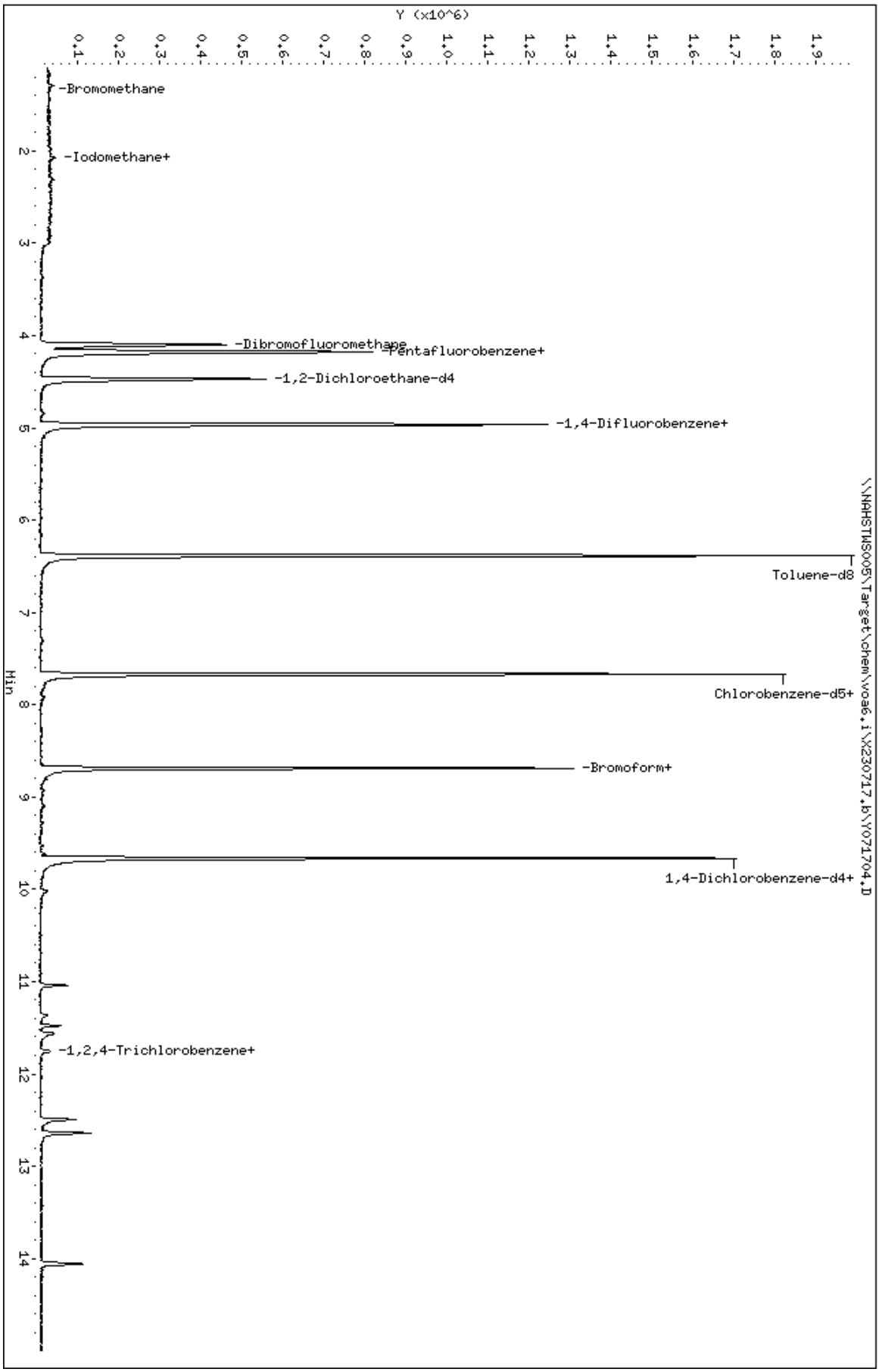
ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230717.b\Y071704.D
Lab Smp Id: CCB Client Smp ID: CCB
Inj Date : 17-JUL-2023 22:50
Operator : PC Inst ID: voa6.i
Smp Info : CCB;CCB;;;
Misc Info : V6;WATER;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\voa6.i\X230717.b\8260W.m
Meth Date : 20-Jul-2023 15:02 voa6.i Quant Type: ISTD
Cal Date : 14-JUL-2023 14:24 Cal File: X071408.D
Als bottle: 34
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 0474-dod.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.181	4.177	(1.000)	640922	50.0000	
$ 30 Dibromofluoromethane	113	4.099	4.099	(0.980)	306446	52.2020	52.20
$ 35 1,2-Dichloroethane-d4	65	4.474	4.470	(1.070)	377048	51.3452	51.34
* 36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	965381	50.0000	
* 47 Chlorobenzene-d5	117	7.667	7.667	(1.000)	842082	50.0000	
$ 48 Toluene-d8	98	6.385	6.385	(0.833)	1137179	52.4504	52.45
$ 69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	397677	47.4085	47.40
* 70 1,4-Dichlorobenzene-d4	152	9.662	9.658	(1.000)	425928	50.0000	



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230717.b\Y071704.D
Date : 17-JUL-2023 22:50
Client ID: CCB
Sample Info: CCB:CCB;;;
Purge Volume: 5.0
Column phase: DB624

Instrument: voa6.i
Operator: PC
Column diameter: 0.18

Data File : \\NAHSTWS005\Target\chem\voa6.i\X230717.b\Y071704.D
Inj Date : 17-JUL-2023 22:50
InstruID : voa6.i
LabSampID : CCB

NO MANUAL INTEGRATIONS

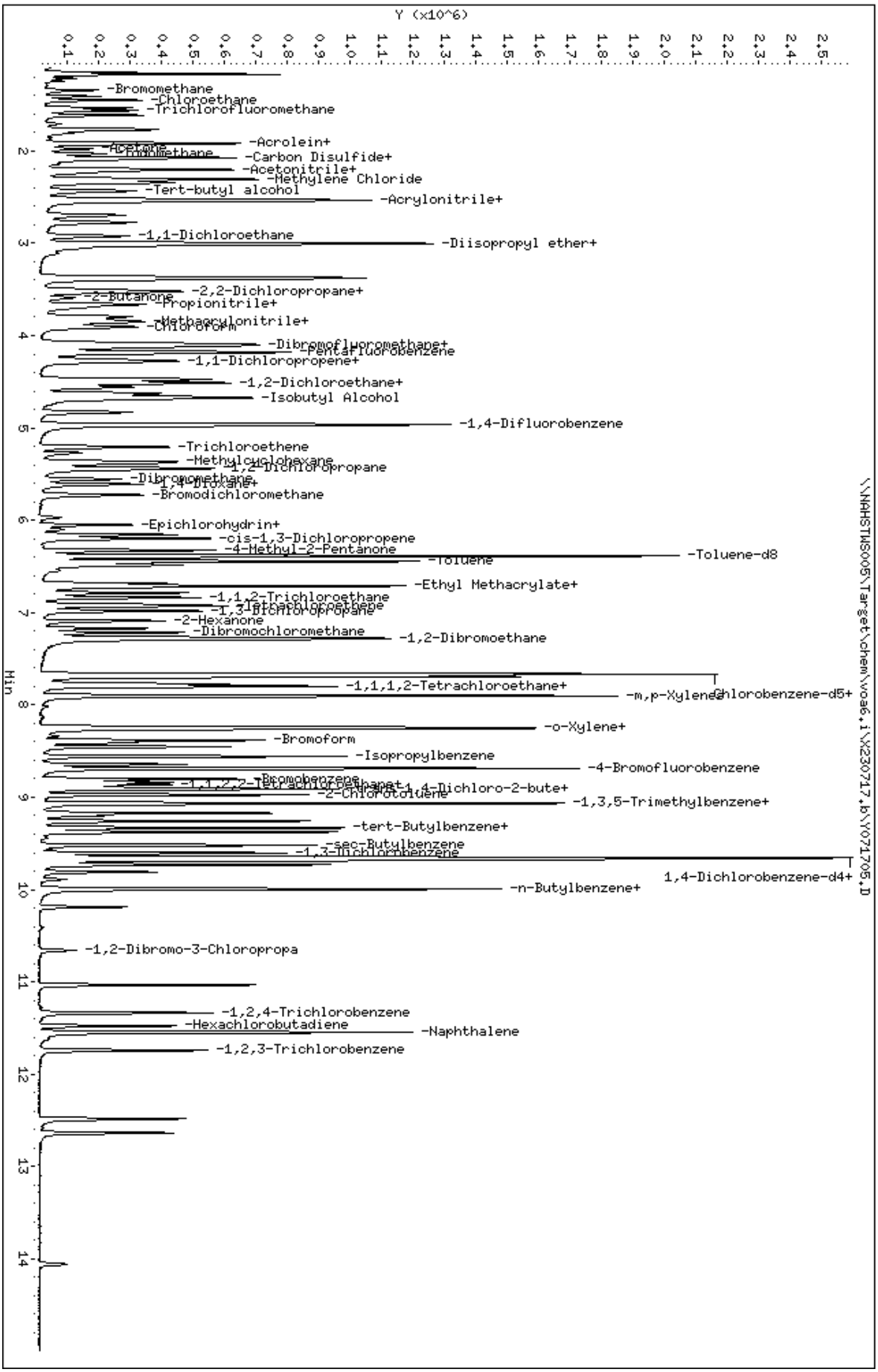
ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230717.b\Y071705.D
Lab Smp Id: VLCSW-230717 Client Smp ID: VLCSW-230717
Inj Date : 17-JUL-2023 23:10
Operator : PC Inst ID: voa6.i
Smp Info : VLCSW-230717;VLCSW-230717;3;;LCS
Misc Info : V6;WATER;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\voa6.i\X230717.b\8260W.m
Meth Date : 20-Jul-2023 15:02 voa6.i Quant Type: ISTD
Cal Date : 14-JUL-2023 14:24 Cal File: X071408.D
Als bottle: 35 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 0474-dod.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.177	4.177	(1.000)	610210	50.0000	
$ 30 Dibromofluoromethane	113	4.099	4.099	(0.981)	302312	54.1173	54.11
$ 35 1,2-Dichloroethane-d4	65	4.470	4.470	(1.070)	370027	52.9444	52.94
* 36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	1016770	50.0000	
* 47 Chlorobenzene-d5	117	7.667	7.667	(1.000)	935510	50.0000	
$ 48 Toluene-d8	98	6.385	6.385	(0.833)	1125980	46.7473	46.74
$ 69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	475574	51.0656	51.06
* 70 1,4-Dichlorobenzene-d4	152	9.658	9.658	(1.000)	490550	50.0000	
5 Vinyl Chloride	62	1.145	1.145	(0.274)	184249	23.3333	23.33
11 1,1-Dichloroethene	96	1.917	1.917	(0.459)	100301	22.4364	22.43
17 Methylene Chloride	84	2.307	2.303	(0.552)	127611	23.4623	23.46
27 cis-1,2-Dichloroethene	96	3.525	3.529	(0.844)	135551	20.5771	20.57
33 1,2-Dichloroethane	62	4.560	4.556	(0.918)	215711	19.2726	19.27
38 Trichloroethene	130	5.205	5.205	(1.048)	131867	19.1690	19.16
53 1,1,2-Trichloroethane	83	6.839	6.839	(0.892)	105162	19.6856	19.68
20 trans-1,2-Dichloroethene	96	2.528	2.528	(0.605)	113681	21.9841	21.98



Data File: \\NAHSTMS005\Target\chem\voa6.i\X230717.b\Y071705.D
Date : 17-JUL-2023 23:10
Client ID: VLCSW-230717
Sample Info: VLCSW-230717;VLCSW-230717;3;;LCS
Purge Volume: 5.0
Column phase: DB624

Instrument: voa6.i
Operator: PC
Column diameter: 0.18

Data File : \\NAHSTWS005\Target\chem\voa6.i\X230717.b\Y071705.D
Inj Date : 17-JUL-2023 23:10
InstruID : voa6.i
LabSampID : VLCSW-230717

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230717.b\Y071707.D Page 1
Report Date: 20-Jul-2023 15:02

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230717.b\Y071707.D
Lab Smp Id: VBLKW-230717 Client Smp ID: VBLKW-230717
Inj Date : 17-JUL-2023 23:51
Operator : PC Inst ID: voa6.i
Smp Info : VBLKW-230717;VBLKW-230717;3;;BLANK
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230717.b\8260W.m
Meth Date : 20-Jul-2023 15:02 voa6.i Quant Type: ISTD
Cal Date : 14-JUL-2023 14:24 Cal File: X071408.D
Als bottle: 37 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 0474-dod.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.181	4.177	(1.000)	645460	50.0000	
$ 30 Dibromofluoromethane	113	4.099	4.099	(0.980)	312819	52.9234	52.92
$ 35 1,2-Dichloroethane-d4	65	4.470	4.470	(1.069)	370486	50.0817	50.08
* 36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	990257	50.0000	
* 47 Chlorobenzene-d5	117	7.667	7.667	(1.000)	874420	50.0000	
$ 48 Toluene-d8	98	6.385	6.385	(0.833)	1153108	51.2182	51.21
$ 69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	411838	47.2799	47.27
* 70 1,4-Dichlorobenzene-d4	152	9.662	9.658	(1.000)	442776	50.0000	

01319868

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230717.b\Y071707.D

Page 1

Date : 17-JUL-2023 23:51

Client ID: VBLKW-230717

Instrument: voa6.i

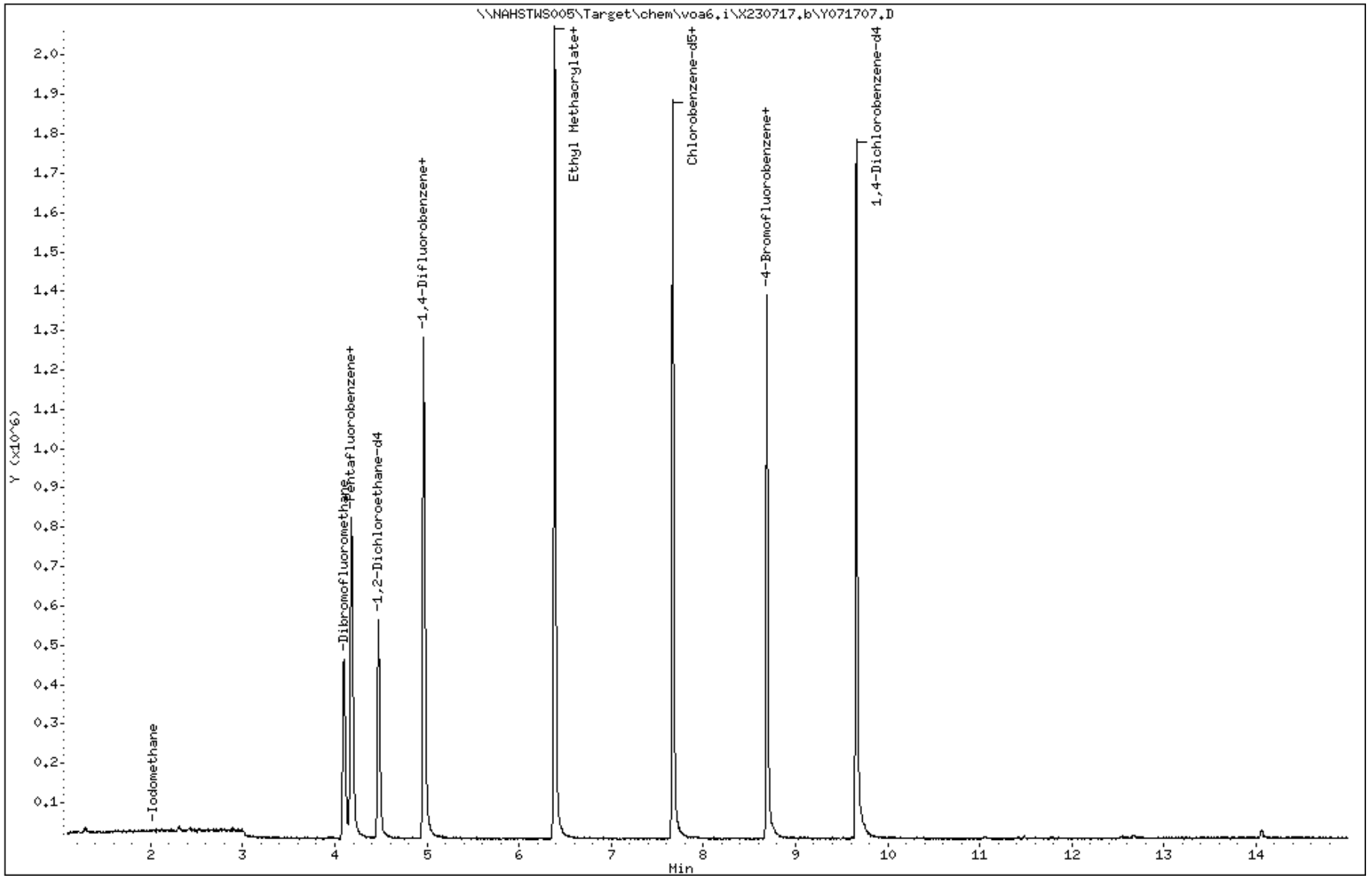
Sample Info: VBLKW-230717;VBLKW-230717;3;;BLANK

Purge Volume: 5.0

Operator: PC

Column phase: DB624

Column diameter: 0.18



Data File : \\NAHSTWS005\Target\chem\voa6.i\X230717.b\Y071707.D
Inj Date : 17-JUL-2023 23:51
InstruID : voa6.i
LabSampID : VBLKW-230717

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230717.b\Y071708.D Page 1
Report Date: 20-Jul-2023 15:02

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230717.b\Y071708.D
Lab Smp Id: HS23070546-09 Client Smp ID: HS23070546-09
Inj Date : 18-JUL-2023 00:12
Operator : PC Inst ID: voa6.i
Smp Info : HS23070546-09;HS23070546-09;;;
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230717.b\8260W.m
Meth Date : 20-Jul-2023 15:02 voa6.i Quant Type: ISTD
Cal Date : 14-JUL-2023 14:24 Cal File: X071408.D
Als bottle: 38
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 0474-dod.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.181	4.177	(1.000)	625940	50.0000	
$ 30 Dibromofluoromethane	113	4.103	4.099	(0.981)	311154	54.3029	54.30
$ 35 1,2-Dichloroethane-d4	65	4.470	4.470	(1.069)	369958	51.5885	51.58
* 36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	959617	50.0000	
* 47 Chlorobenzene-d5	117	7.668	7.667	(1.000)	866048	50.0000	
$ 48 Toluene-d8	98	6.385	6.385	(0.833)	1130297	50.6903	50.69
$ 69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	396134	45.9043	45.90
* 70 1,4-Dichlorobenzene-d4	152	9.662	9.658	(1.000)	431560	50.0000	

01319871

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230717.b\Y071708.D

Date : 18-JUL-2023 00:12

Client ID: HS23070546-09

Instrument: voa6.i

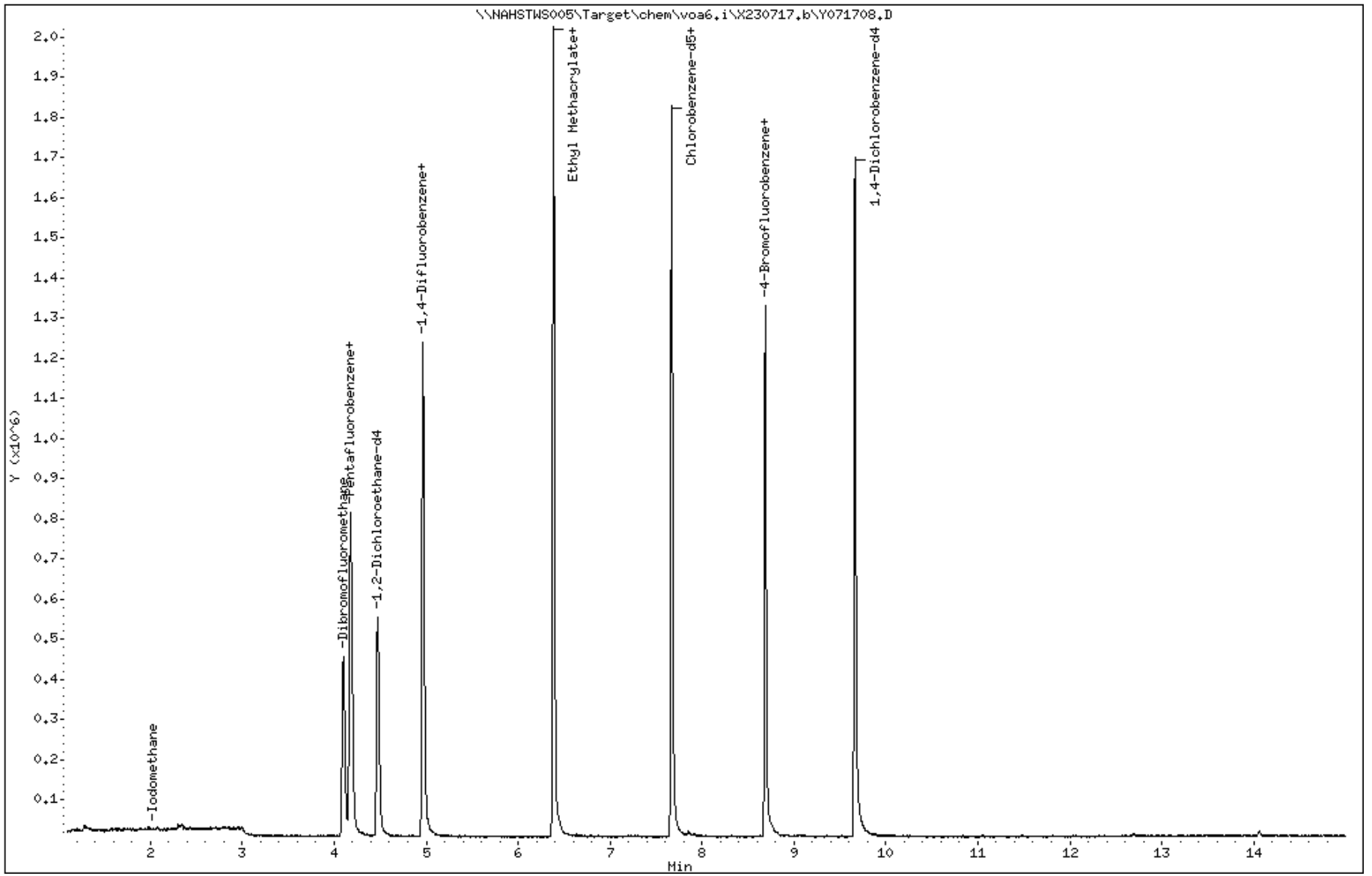
Sample Info: HS23070546-09;HS23070546-09;;;

Purge Volume: 5.0

Operator: PC

Column phase: DB624

Column diameter: 0.18



Data File : \\NAHSTWS005\Target\chem\voa6.i\X230717.b\Y071708.D
Inj Date : 18-JUL-2023 00:12
InstruID : voa6.i
LabSampID : HS23070546-09

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230717.b\Y071709.D Page 1
Report Date: 20-Jul-2023 15:02

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230717.b\Y071709.D
Lab Smp Id: HS23070546-03 Client Smp ID: HS23070546-03
Inj Date : 18-JUL-2023 00:32
Operator : PC Inst ID: voa6.i
Smp Info : HS23070546-03;HS23070546-03;;;
Misc Info : V6;WATER;0;100;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230717.b\8260W.m
Meth Date : 20-Jul-2023 15:02 voa6.i Quant Type: ISTD
Cal Date : 14-JUL-2023 14:24 Cal File: X071408.D
Als bottle: 39
Dil Factor: 100.00000
Integrator: HP RTE Compound Sublist: 0474-dod.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	100.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.177	4.177	(1.000)	627760	50.0000	
$ 30 Dibromofluoromethane	113	4.099	4.099	(0.981)	306065	53.2453	53.24
$ 35 1,2-Dichloroethane-d4	65	4.474	4.470	(1.071)	381185	53.0169	53.01
* 36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	976648	50.0000	
* 47 Chlorobenzene-d5	117	7.667	7.667	(1.000)	849728	50.0000	
$ 48 Toluene-d8	98	6.385	6.385	(0.833)	1122277	51.2973	51.29
$ 69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	401321	47.4125	47.41
* 70 1,4-Dichlorobenzene-d4	152	9.662	9.658	(1.000)	423902	50.0000	
5 Vinyl Chloride	62	1.145	1.145	(0.274)	46867	5.76931	576.93
11 1,1-Dichloroethene	96	1.921	1.917	(0.460)	4942	1.07457	107.45(a)
27 cis-1,2-Dichloroethene	96	3.521	3.529	(0.843)	1959088	289.082	28908.15(A)
33 1,2-Dichloroethane	62	4.575	4.556	(0.921)	5730	0.53298	53.29(a)
38 Trichloroethene	130	5.205	5.205	(1.048)	3071547	464.841	46484.08(A)

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount

exceeded maximum amount.

01319875

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230717.b\Y071709.D

Date : 18-JUL-2023 00:32

Client ID: HS23070546-03

Instrument: voa6.i

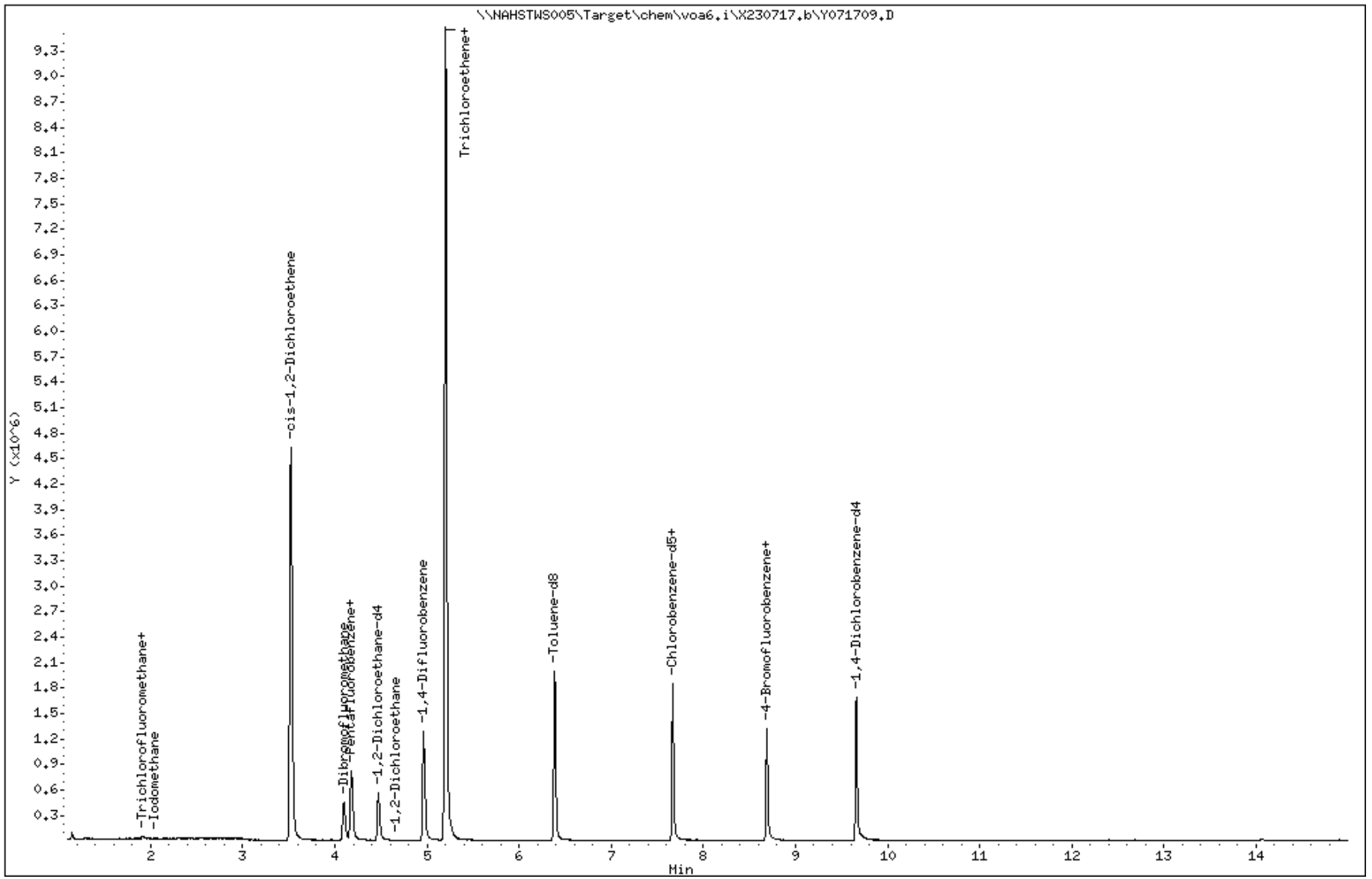
Sample Info: HS23070546-03;HS23070546-03;;;

Purge Volume: 5.0

Operator: PC

Column phase: DB624

Column diameter: 0.18



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230717.b\Y071709.D

Date : 18-JUL-2023 00:32

Client ID: HS23070546-03

Instrument: voa6.i

Sample Info: HS23070546-03;HS23070546-03;;;

Purge Volume: 5.0

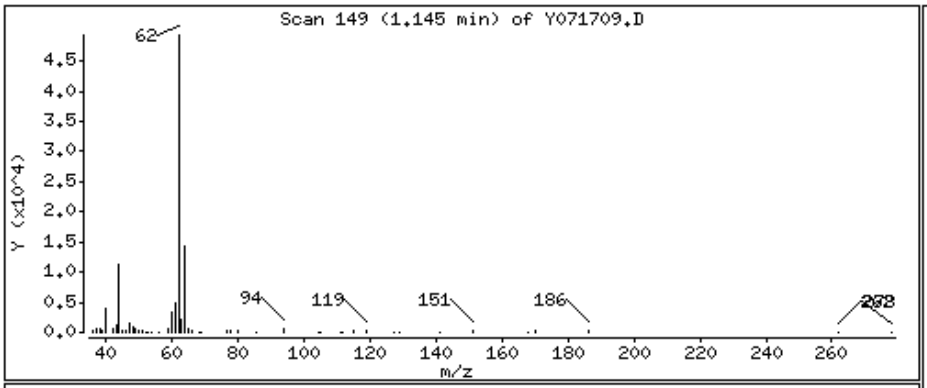
Operator: PC

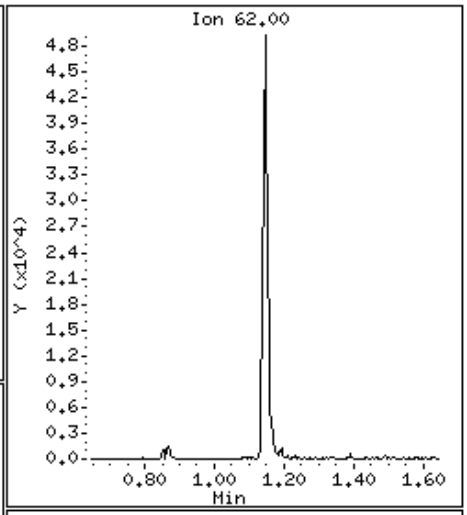
Column phase: DB624

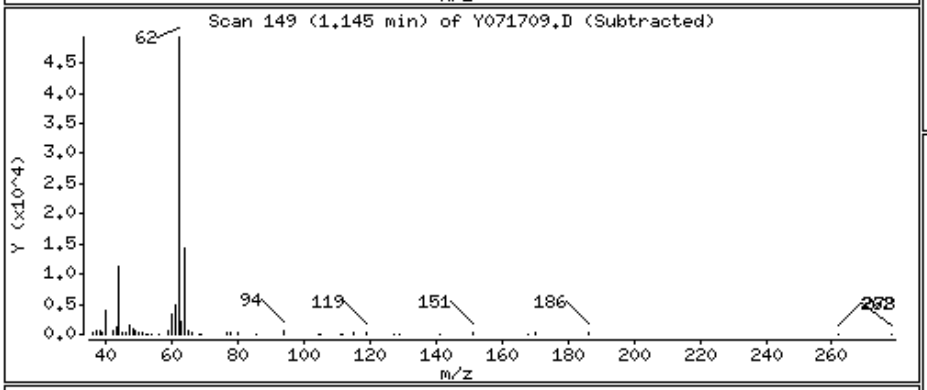
Column diameter: 0.18

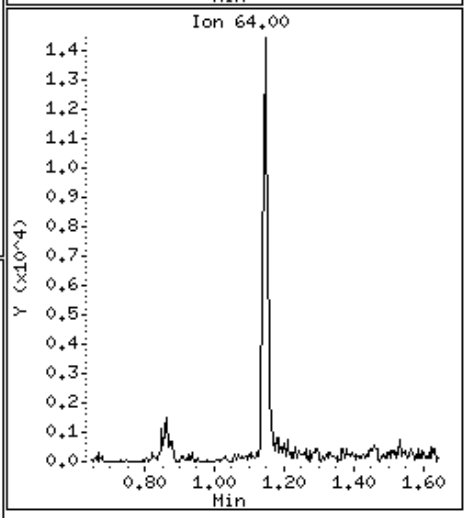
5 Vinyl Chloride

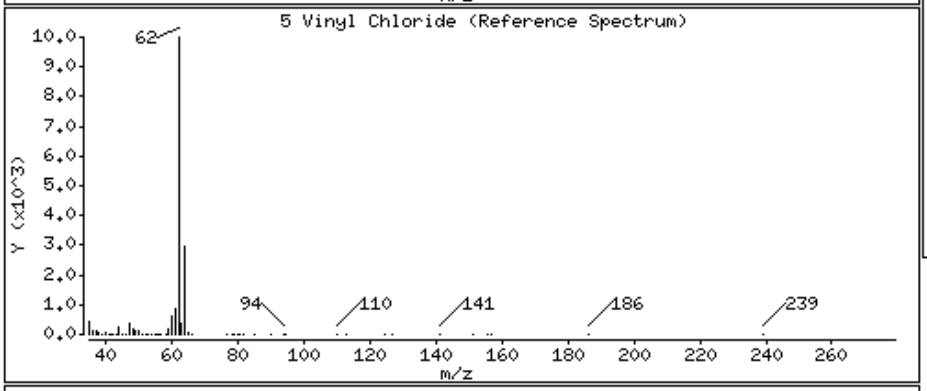
Concentration: 576.93 ug/l

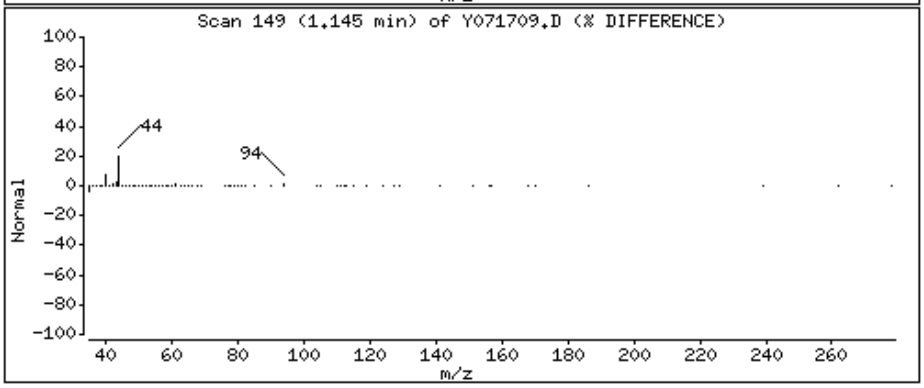












Data File: \\NAHSTWS005\Target\chem\voa6.i\X230717.b\Y071709.D Page 3

Date : 18-JUL-2023 00:32

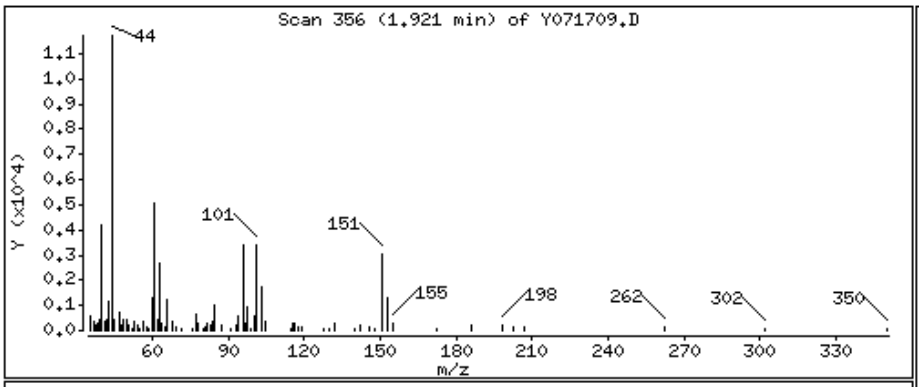
Client ID: HS23070546-03 Instrument: voa6.i

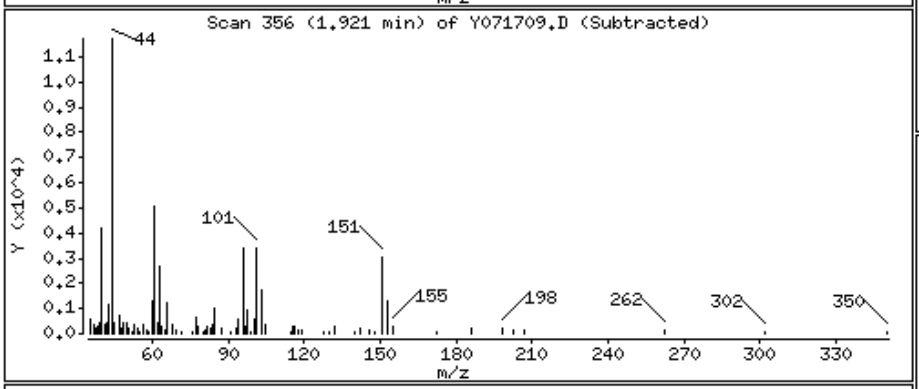
Sample Info: HS23070546-03;HS23070546-03;;;

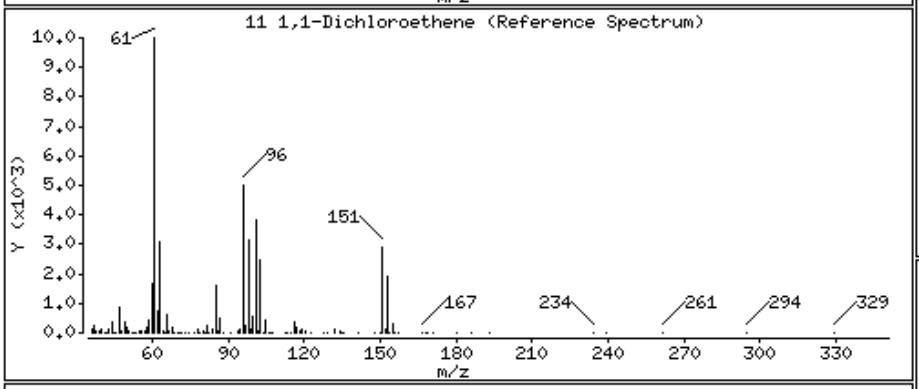
Purge Volume: 5.0 Operator: PC

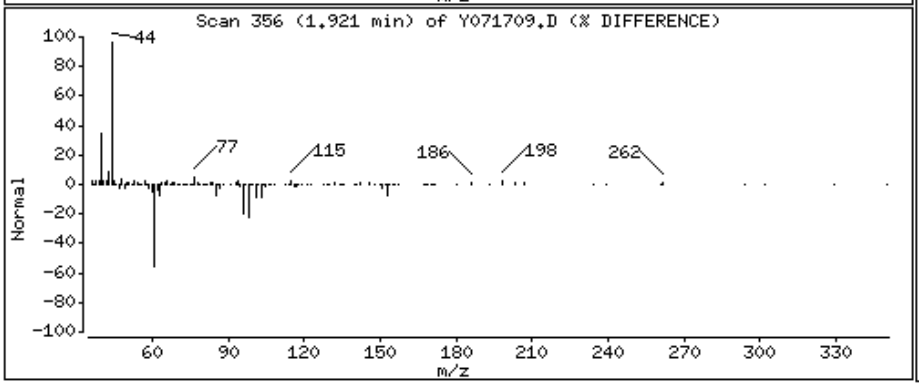
Column phase: DB624 Column diameter: 0.18

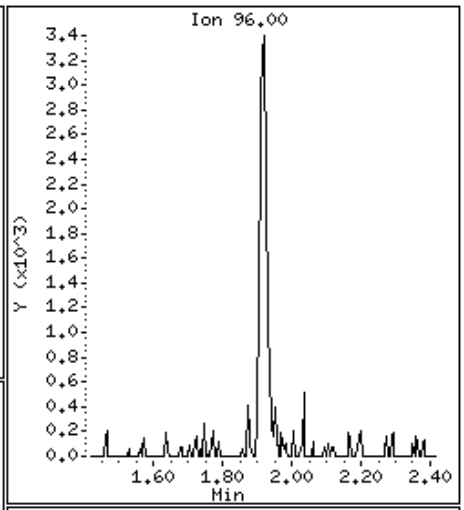
11 1,1-Dichloroethene Concentration: 107.45 ug/l

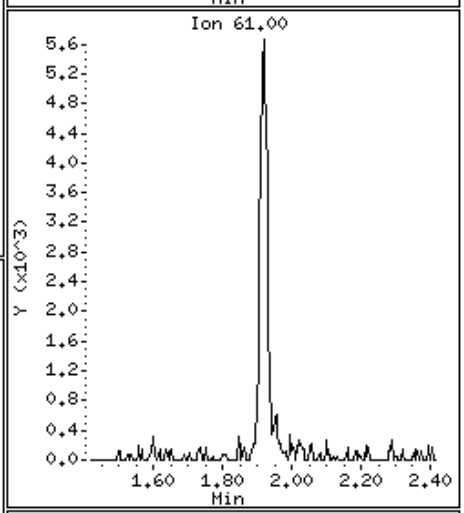


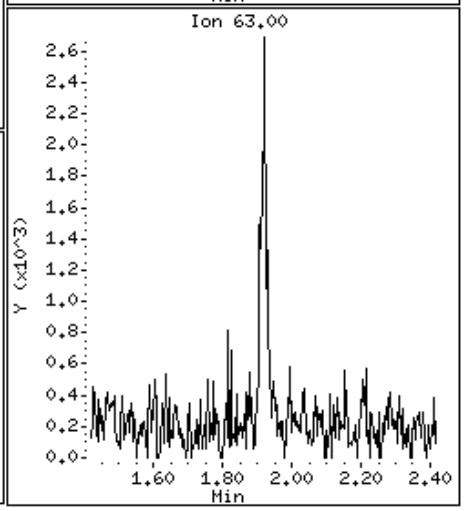












Data File: \\NAHSTWS005\Target\chem\voa6.i\X230717.b\Y071709.D

Date : 18-JUL-2023 00:32

Client ID: HS23070546-03

Instrument: voa6.i

Sample Info: HS23070546-03;HS23070546-03;;;

Purge Volume: 5.0

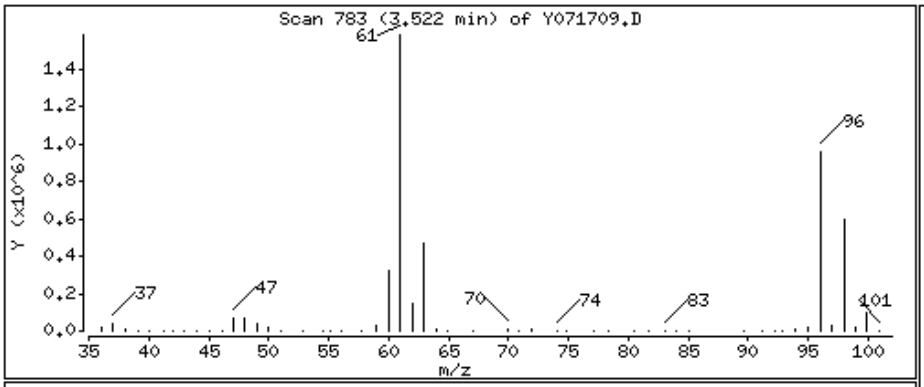
Operator: PC

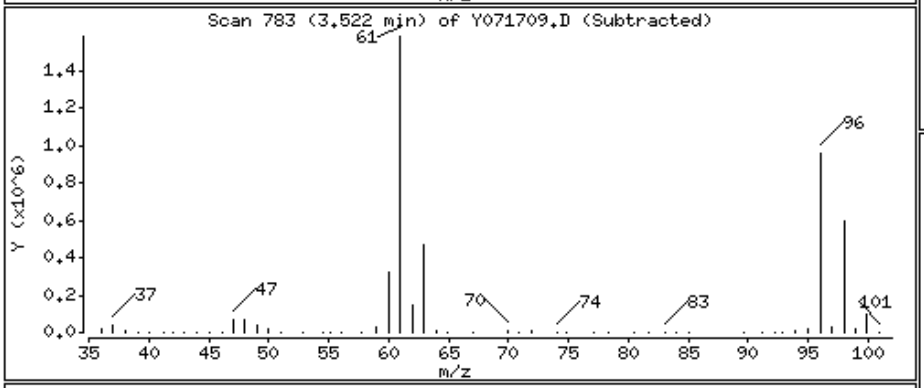
Column phase: DB624

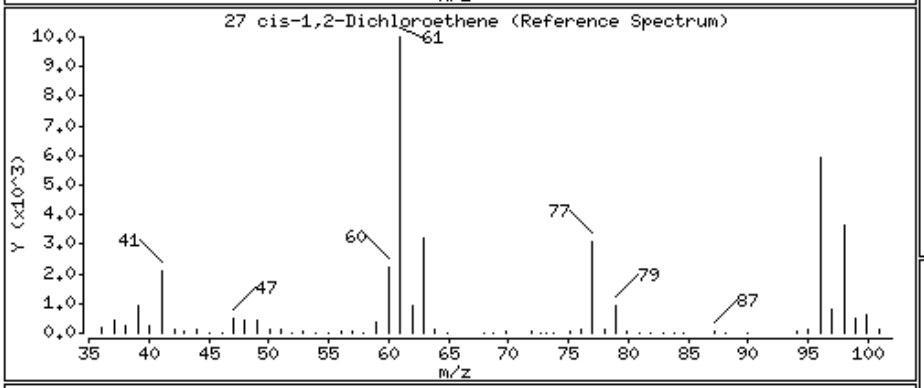
Column diameter: 0.18

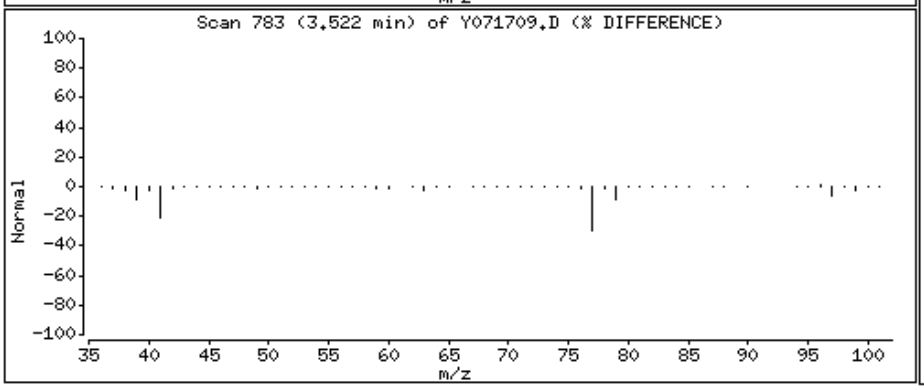
27 cis-1,2-Dichloroethene

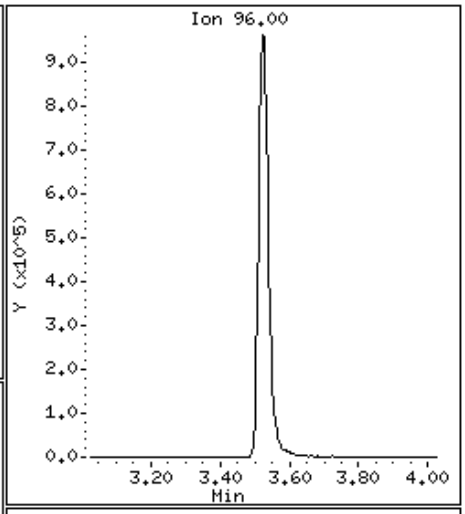
Concentration: 28908.15 ug/l

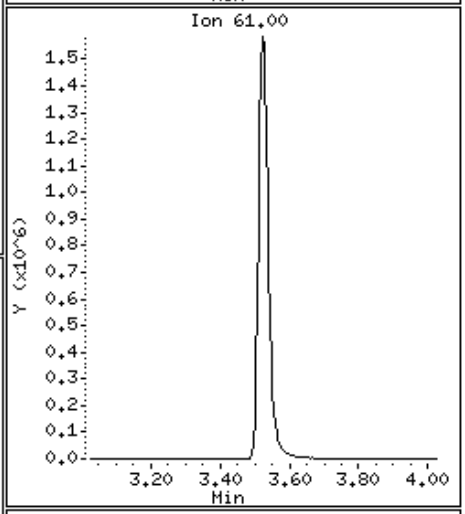


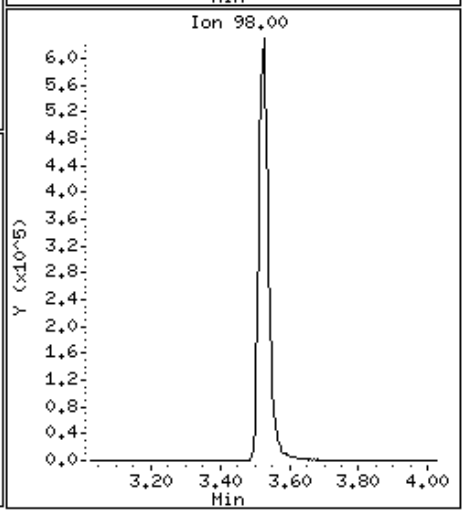












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Date : 18-JUL-2023 00:32

Client ID: HS23070546-03

Instrument: voa6.i

Sample Info: HS23070546-03;HS23070546-03;;;

Purge Volume: 5.0

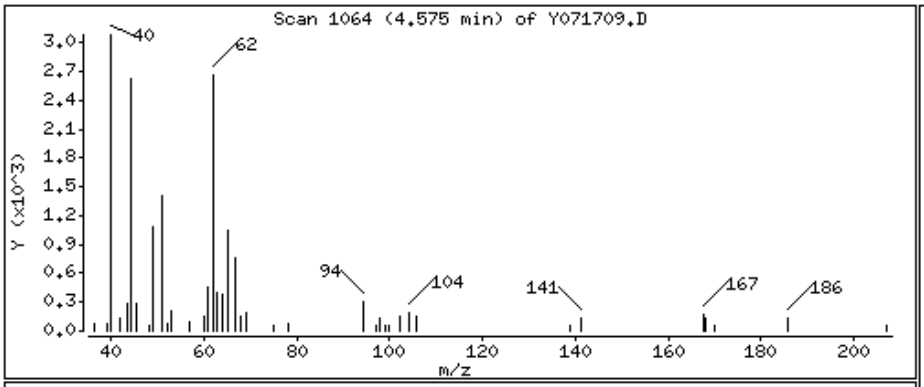
Operator: PC

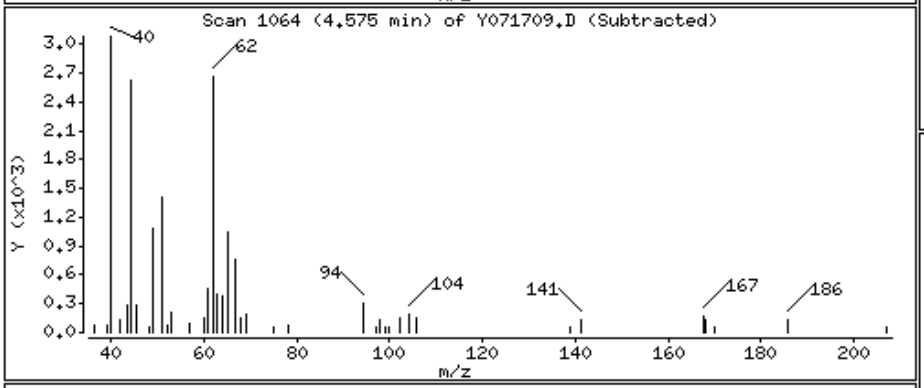
Column phase: DB624

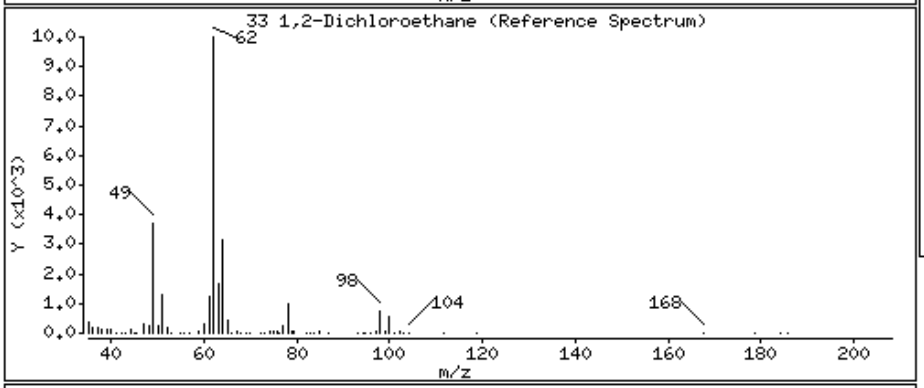
Column diameter: 0.18

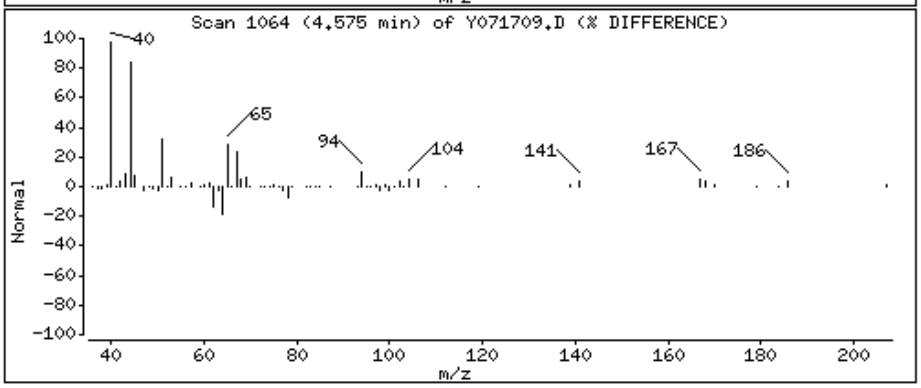
33 1,2-Dichloroethane

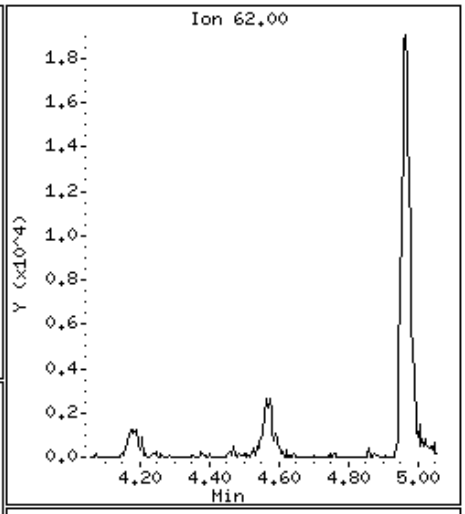
Concentration: 53.29 ug/l

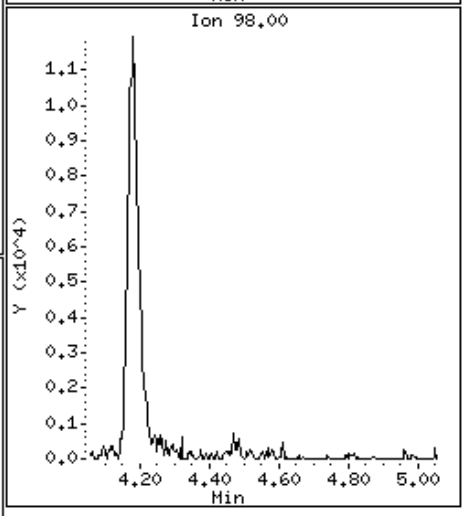












Data File: \\NAHSTWS005\Target\chem\voa6.i\X230717.b\Y071709.D

Date : 18-JUL-2023 00:32

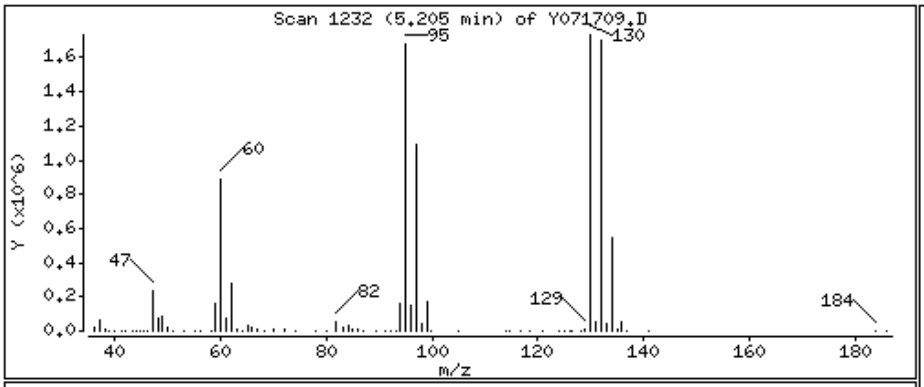
Client ID: HS23070546-03 Instrument: voa6.i

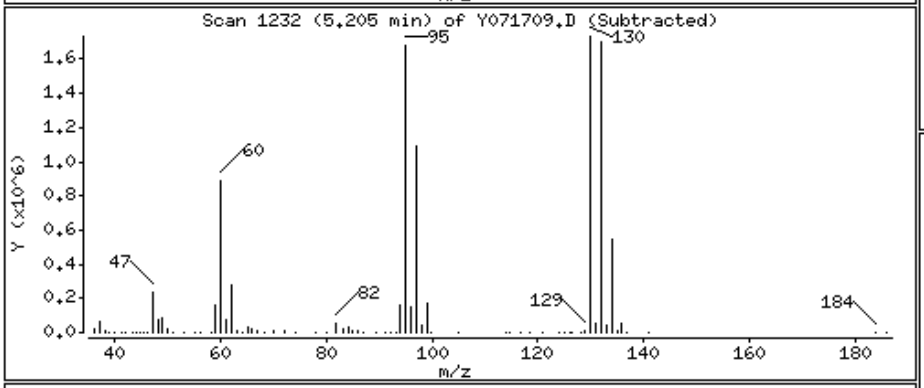
Sample Info: HS23070546-03;HS23070546-03;;;

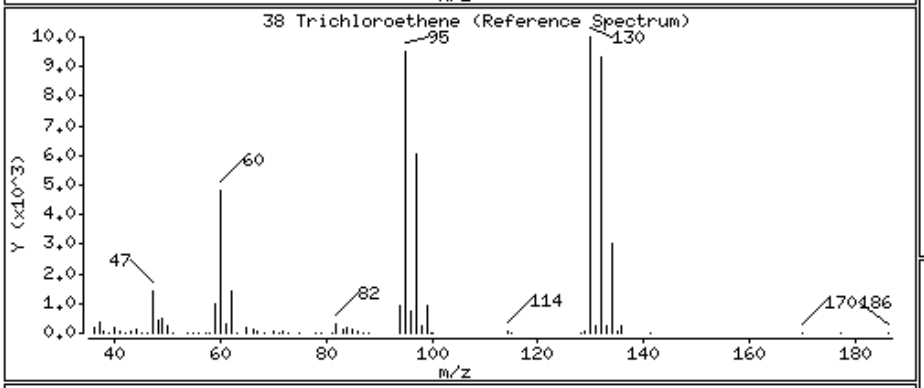
Purge Volume: 5.0 Operator: PC

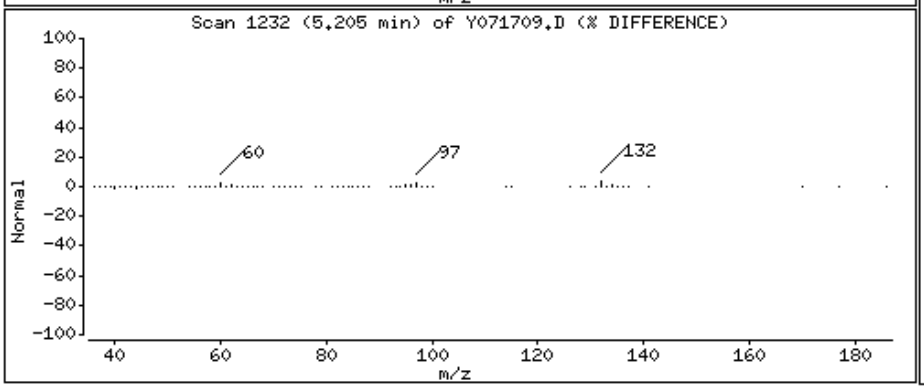
Column phase: DB624 Column diameter: 0.18

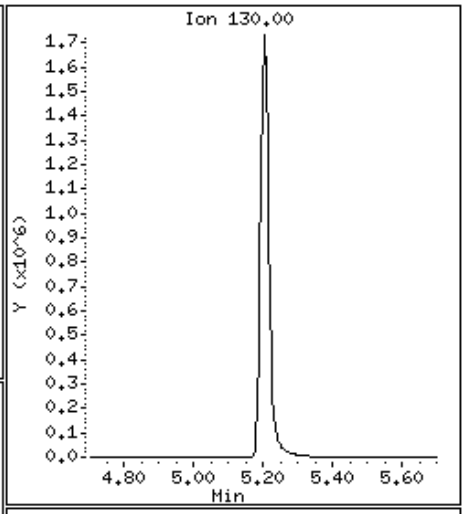
38 Trichloroethene Concentration: 46484.08 ug/l

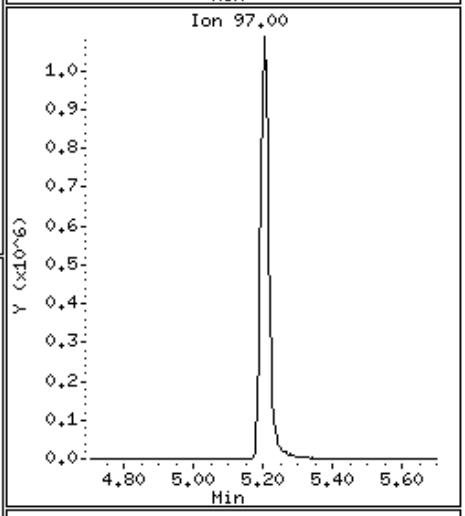


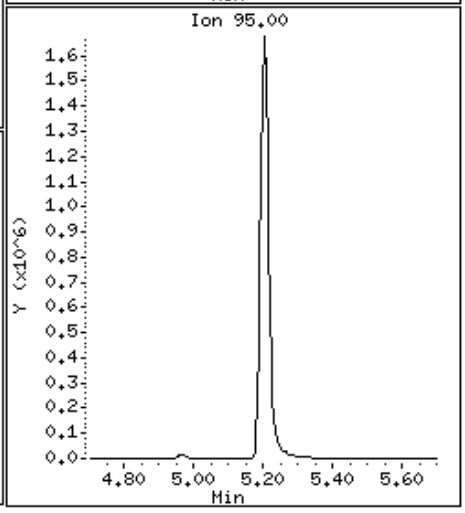












Data File : \\NAHSTWS005\Target\chem\voa6.i\X230717.b\Y071709.D
Inj Date : 18-JUL-2023 00:32
InstruID : voa6.i
LabSampID : HS23070546-03

NO MANUAL INTEGRATIONS

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230717.b\Y071710.D
Lab Smp Id: HS23070546-03 Client Smp ID: HS23070546-03
Inj Date : 18-JUL-2023 00:53
Operator : PC Inst ID: voa6.i
Smp Info : HS23070546-03;HS23070546-03;;;
Misc Info : V6;WATER;0;1000;
Comment :
Method : \\NAHSTWS005\Target\chem\voa6.i\X230717.b\8260W.m
Meth Date : 20-Jul-2023 15:02 voa6.i Quant Type: ISTD
Cal Date : 14-JUL-2023 14:24 Cal File: X071408.D
Als bottle: 40
Dil Factor: 1000.00000
Integrator: HP RTE Compound Sublist: 0474-dod.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1000.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.178	4.177	(1.000)	519033	50.0000	
$ 30 Dibromofluoromethane	113	4.099	4.099	(0.981)	253189	53.2738	53.27
$ 35 1,2-Dichloroethane-d4	65	4.474	4.470	(1.071)	316217	53.1961	53.19
* 36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	787919	50.0000	
* 47 Chlorobenzene-d5	117	7.668	7.667	(1.000)	820394	50.0000	
$ 48 Toluene-d8	98	6.385	6.385	(0.833)	1094068	51.7960	51.79
$ 69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	382725	46.8270	46.82
* 70 1,4-Dichlorobenzene-d4	152	9.662	9.658	(1.000)	399472	50.0000	
5 Vinyl Chloride	62	1.145	1.145	(0.274)	6180	0.92012	920.11(a)
27 cis-1,2-Dichloroethene	96	3.525	3.529	(0.844)	187618	33.4842	33484.17
38 Trichloroethene	130	5.205	5.205	(1.048)	309701	58.0960	58095.99

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

01319883

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230717.b\Y071710.D

Date : 18-JUL-2023 00:53

Client ID: HS23070546-03

Instrument: voa6.i

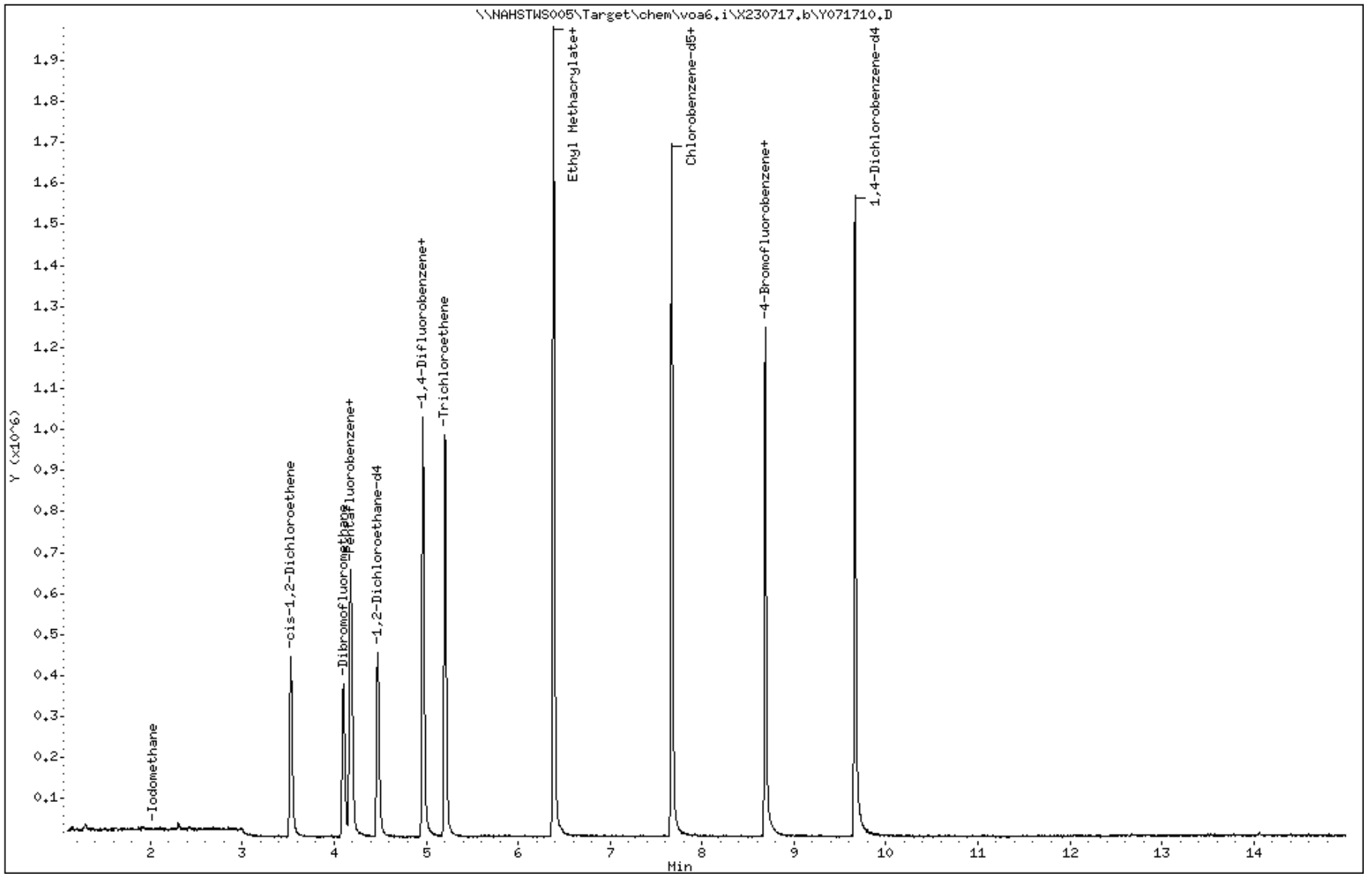
Sample Info: HS23070546-03;HS23070546-03;;;

Purge Volume: 5.0

Operator: PC

Column phase: DB624

Column diameter: 0.18



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230717.b\Y071710.D

Date : 18-JUL-2023 00:53

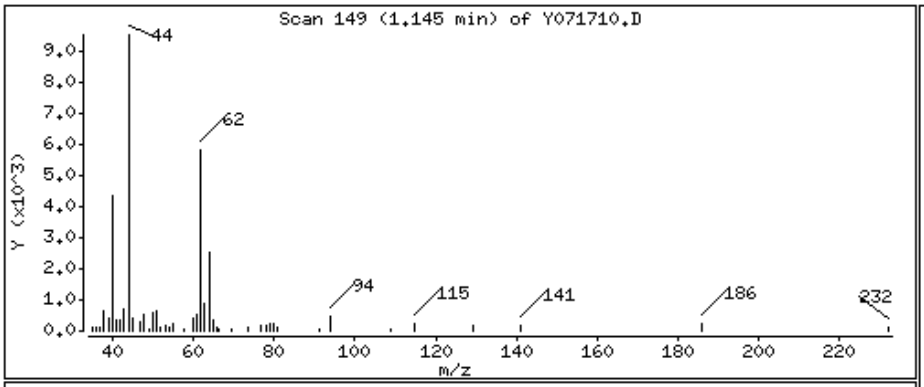
Client ID: HS23070546-03 Instrument: voa6.i

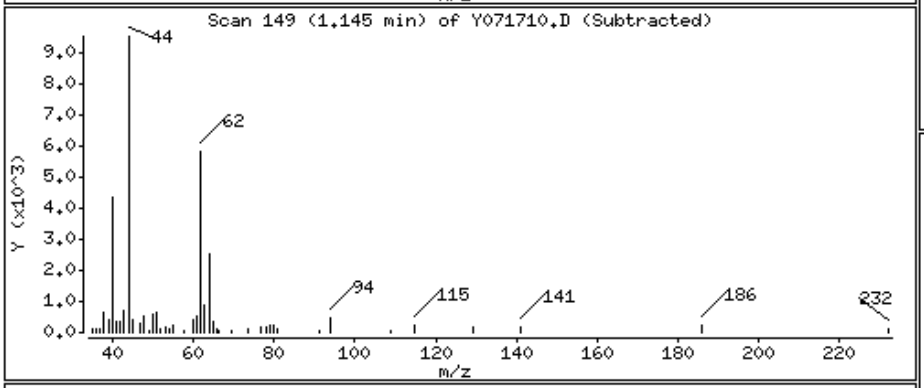
Sample Info: HS23070546-03;HS23070546-03;;;

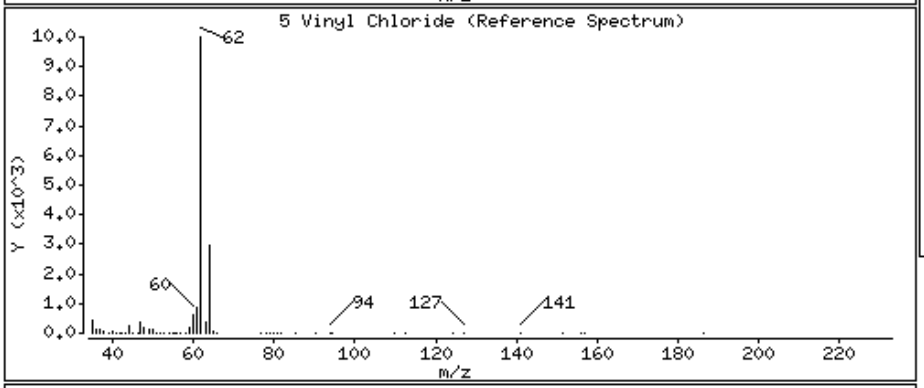
Purge Volume: 5.0 Operator: PC

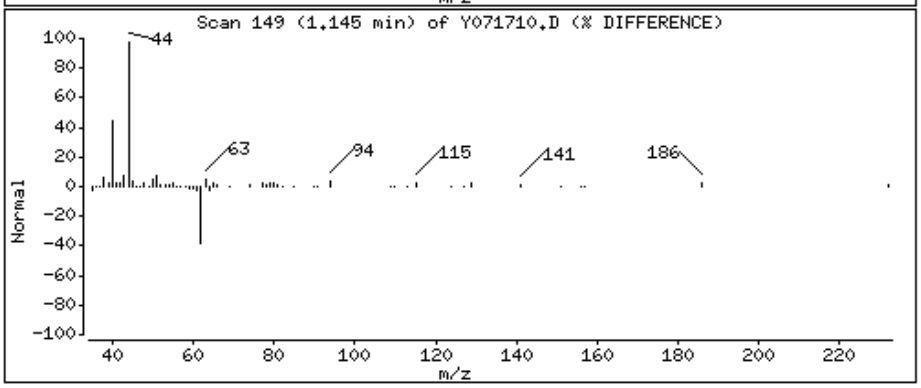
Column phase: DB624 Column diameter: 0.18

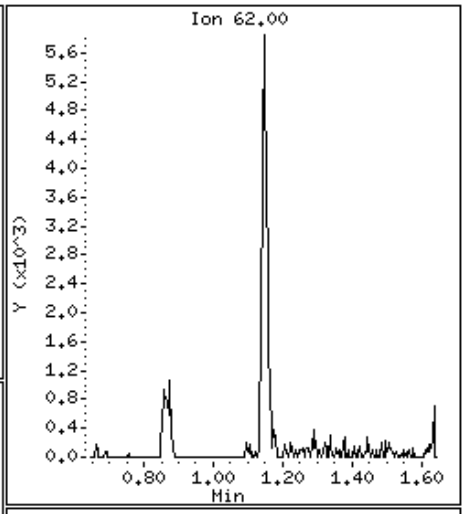
5 Vinyl Chloride Concentration: 920.11 ug/l

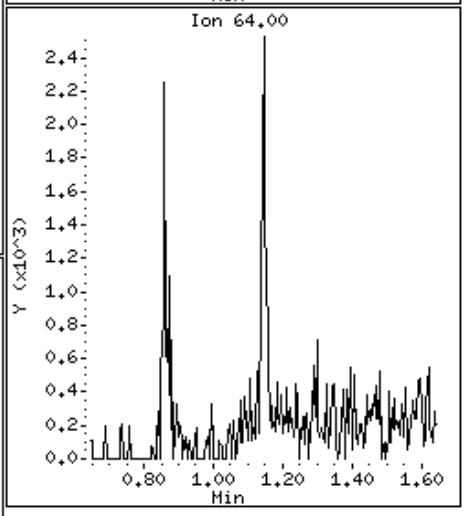












Data File: \\NAHSTWS005\Target\chem\voa6.i\X230717.b\Y071710.D Page 3

Date : 18-JUL-2023 00:53

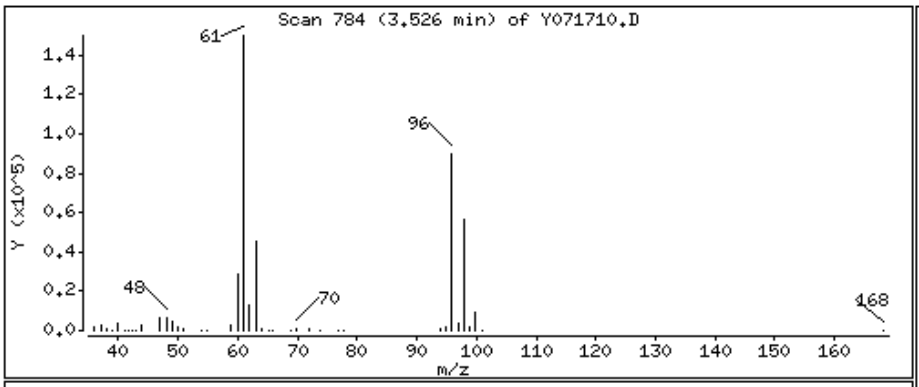
Client ID: HS23070546-03 Instrument: voa6.i

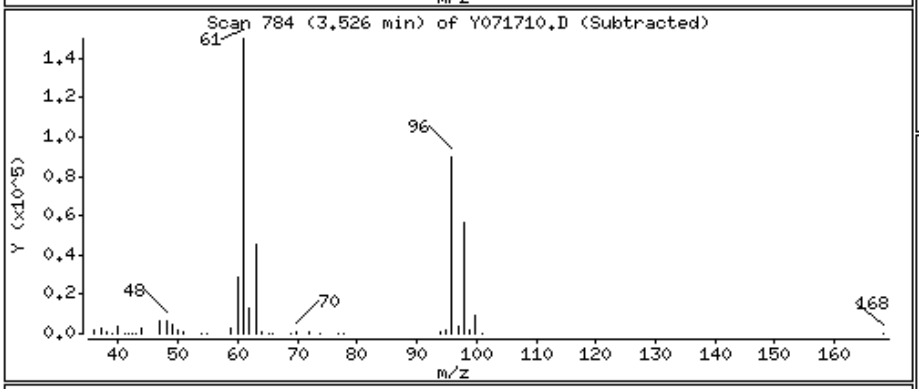
Sample Info: HS23070546-03;HS23070546-03;;;

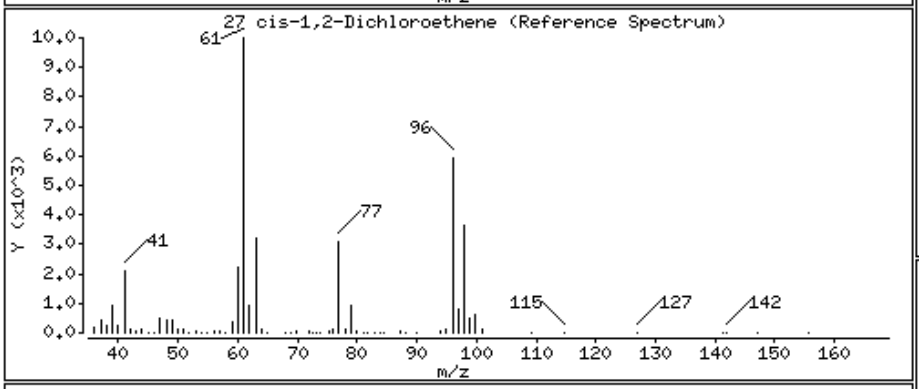
Purge Volume: 5.0 Operator: PC

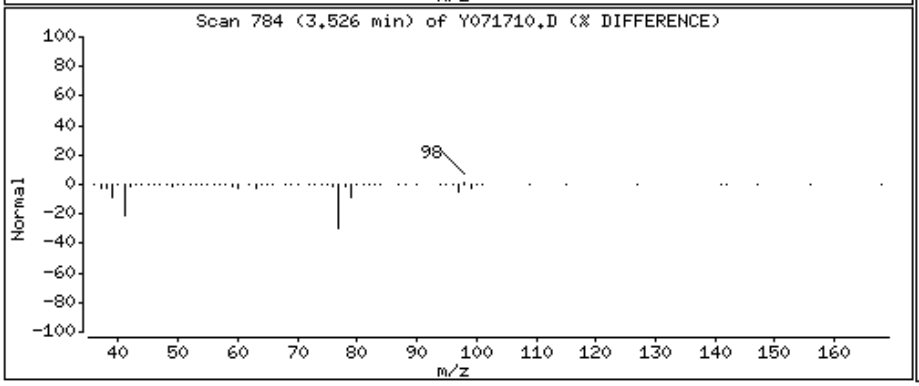
Column phase: DB624 Column diameter: 0.18

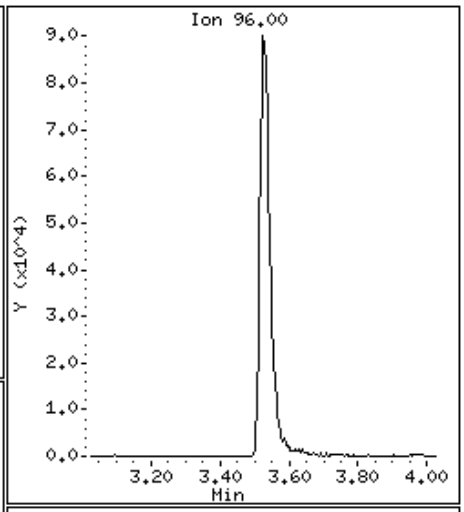
27 cis-1,2-Dichloroethene Concentration: 33484.17 ug/l

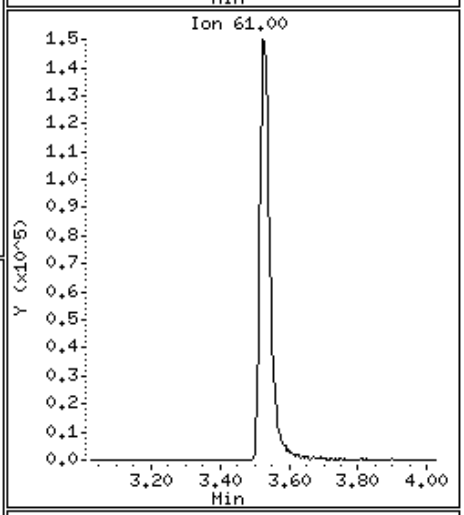


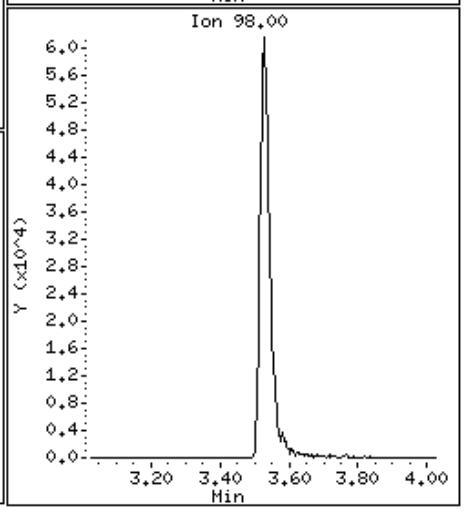












Data File: \\NAHSTWS005\Target\chem\voa6.i\X230717.b\Y071710.D

Date : 18-JUL-2023 00:53

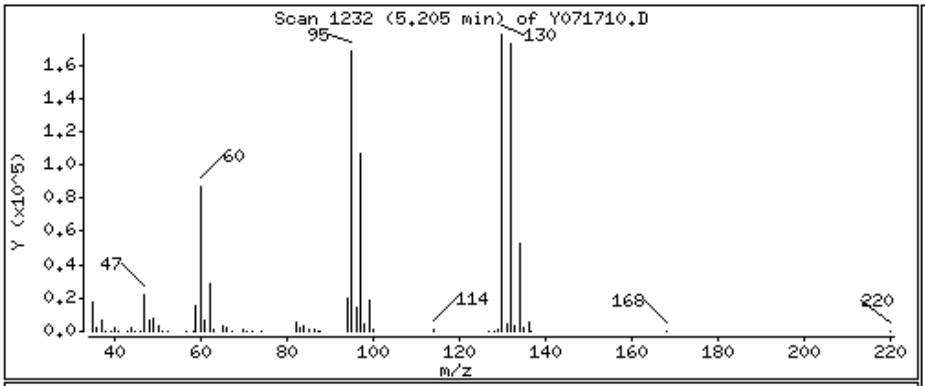
Client ID: HS23070546-03 Instrument: voa6.i

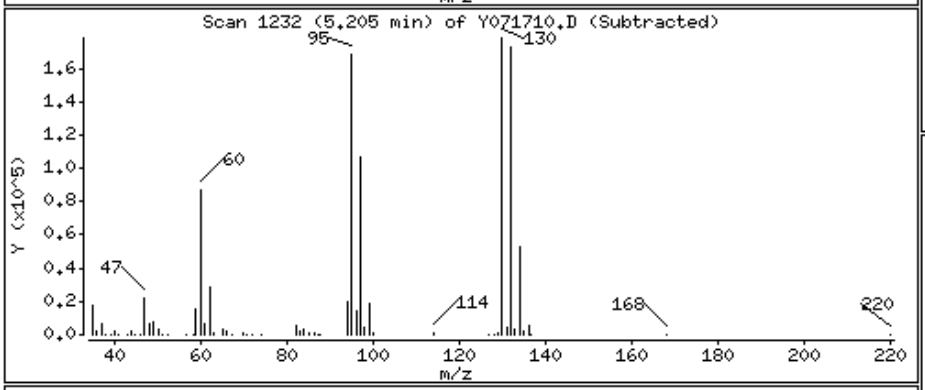
Sample Info: HS23070546-03;HS23070546-03;;;

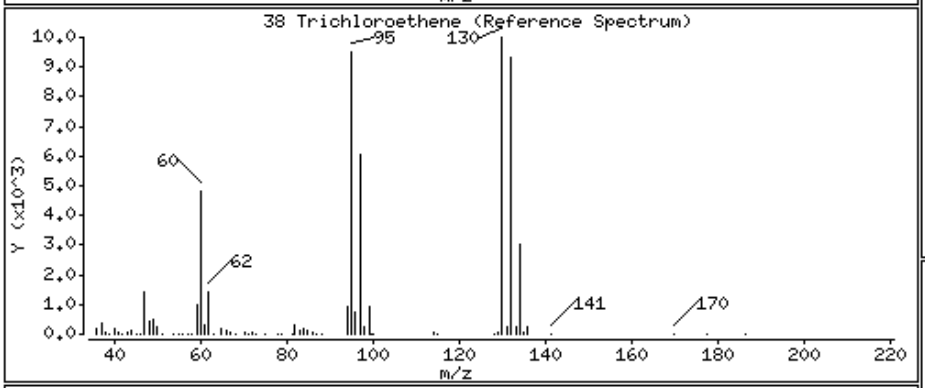
Purge Volume: 5.0 Operator: PC

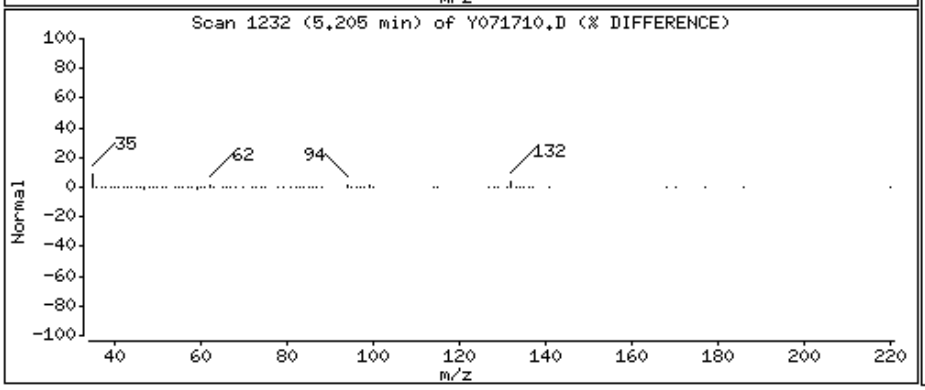
Column phase: DB624 Column diameter: 0.18

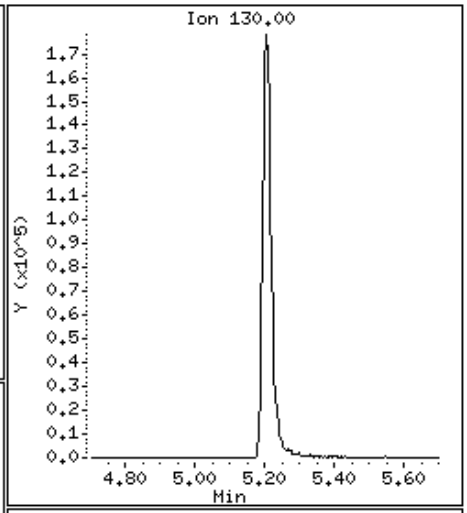
38 Trichloroethene Concentration: 58095.99 ug/l

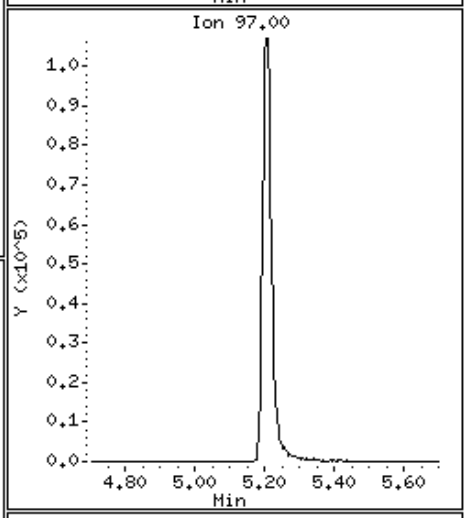


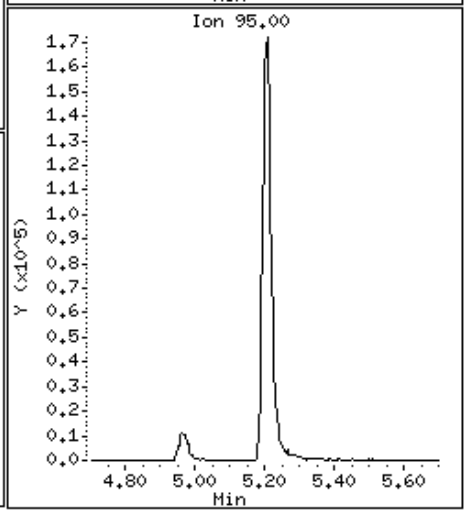












Data File : \\NAHSTWS005\Target\chem\voa6.i\X230717.b\Y071710.D
Inj Date : 18-JUL-2023 00:53
InstruID : voa6.i
LabSampID : HS23070546-03

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230717.b\Y071712.D Page 1
Report Date: 20-Jul-2023 15:03

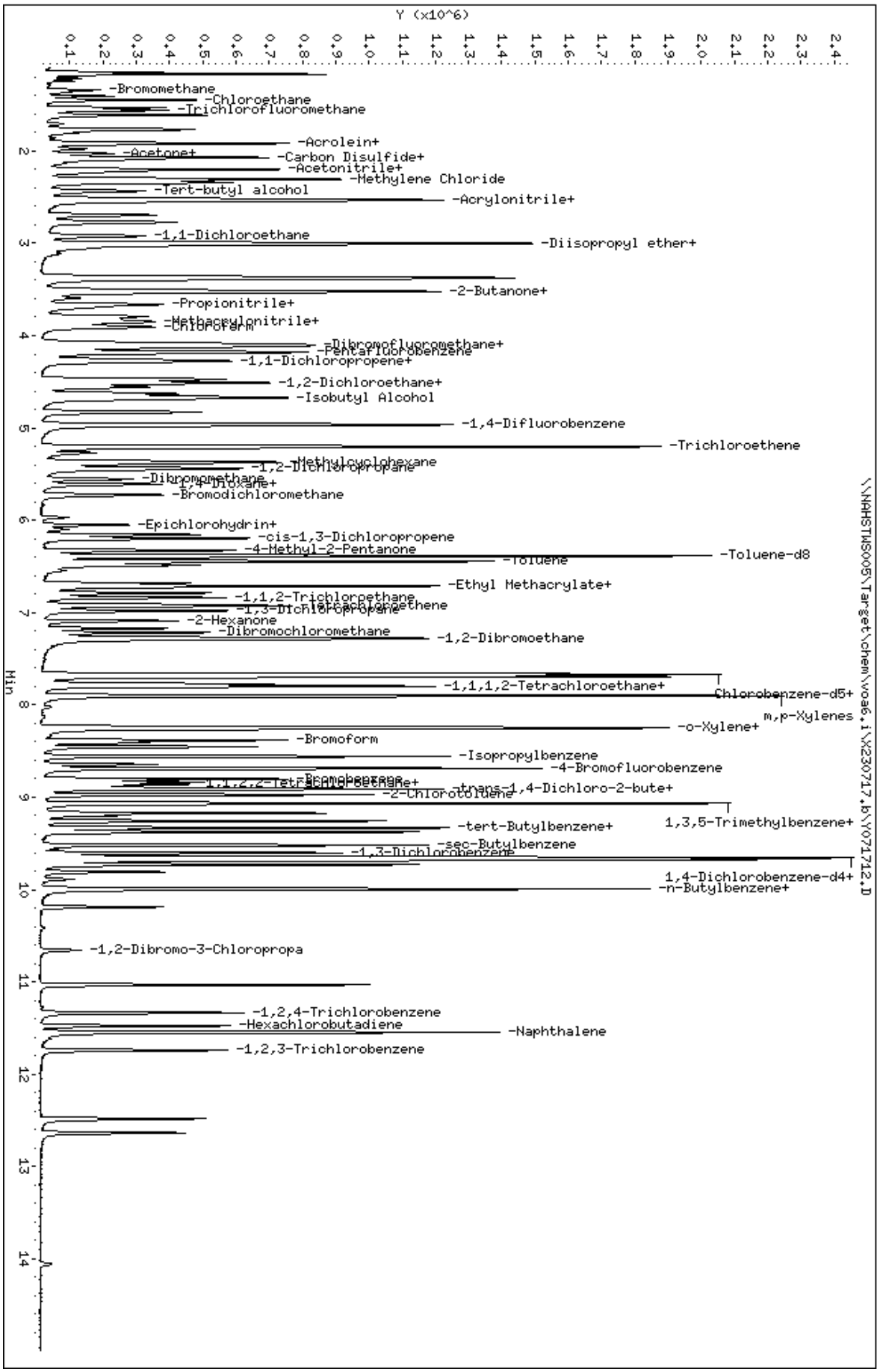
ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230717.b\Y071712.D
Lab Smp Id: HS23070546-03MS Client Smp ID: HS23070546-03MS
Inj Date : 18-JUL-2023 01:34
Operator : PC Inst ID: voa6.i
Smp Info : HS23070546-03MS;HS23070546-03MS;3;;MS
Misc Info : V6;WATER;0;1000;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230717.b\8260W.m
Meth Date : 20-Jul-2023 15:02 voa6.i Quant Type: ISTD
Cal Date : 14-JUL-2023 14:24 Cal File: X071408.D
Als bottle: 42 QC Sample: MS
Dil Factor: 1000.00000
Integrator: HP RTE Compound Sublist: 0474-dod.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1000.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.178	4.177	(1.000)	623956	50.0000	
$ 30 Dibromofluoromethane	113	4.095	4.099	(0.980)	311871	54.6053	54.60
$ 35 1,2-Dichloroethane-d4	65	4.470	4.470	(1.070)	381021	53.3207	53.32
* 36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	974494	50.0000	
* 47 Chlorobenzene-d5	117	7.668	7.667	(1.000)	857955	50.0000	
$ 48 Toluene-d8	98	6.385	6.385	(0.833)	1125485	50.9506	50.95
$ 69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	408607	47.8140	47.81
* 70 1,4-Dichlorobenzene-d4	152	9.662	9.658	(1.000)	430640	50.0000	
5 Vinyl Chloride	62	1.145	1.145	(0.274)	216445	26.8067	26806.74
11 1,1-Dichloroethene	96	1.917	1.917	(0.459)	115346	25.2334	25233.42
17 Methylene Chloride	84	2.307	2.303	(0.552)	134842	24.2927	24292.71
27 cis-1,2-Dichloroethene	96	3.525	3.529	(0.844)	437820	64.9983	64998.26
33 1,2-Dichloroethane	62	4.556	4.556	(0.918)	231615	21.5913	21591.25
38 Trichloroethene	130	5.205	5.205	(1.048)	588870	89.3152	89315.20
53 1,1,2-Trichloroethane	83	6.839	6.839	(0.892)	113274	23.1209	23120.87
20 trans-1,2-Dichloroethene	96	2.532	2.528	(0.606)	124117	23.4735	23473.47



Data File: \\NAHSTMS005\Target\chem\voa6.i\X230717.b\Y071712.D
Date : 18-JUL-2023 01:34
Client ID: HS23070546-03MS
Sample Info: HS23070546-03MS;HS23070546-03MS;3;;MS
Purge Volume: 5.0
Column phase: DB624

Instrument: voa6.i
Operator: PC
Column diameter: 0.18

Data File : \\NAHSTWS005\Target\chem\voa6.i\X230717.b\Y071712.D
Inj Date : 18-JUL-2023 01:34
InstruID : voa6.i
LabSampID : HS23070546-03MS

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230717.b\Y071713.D Page 1
Report Date: 20-Jul-2023 15:03

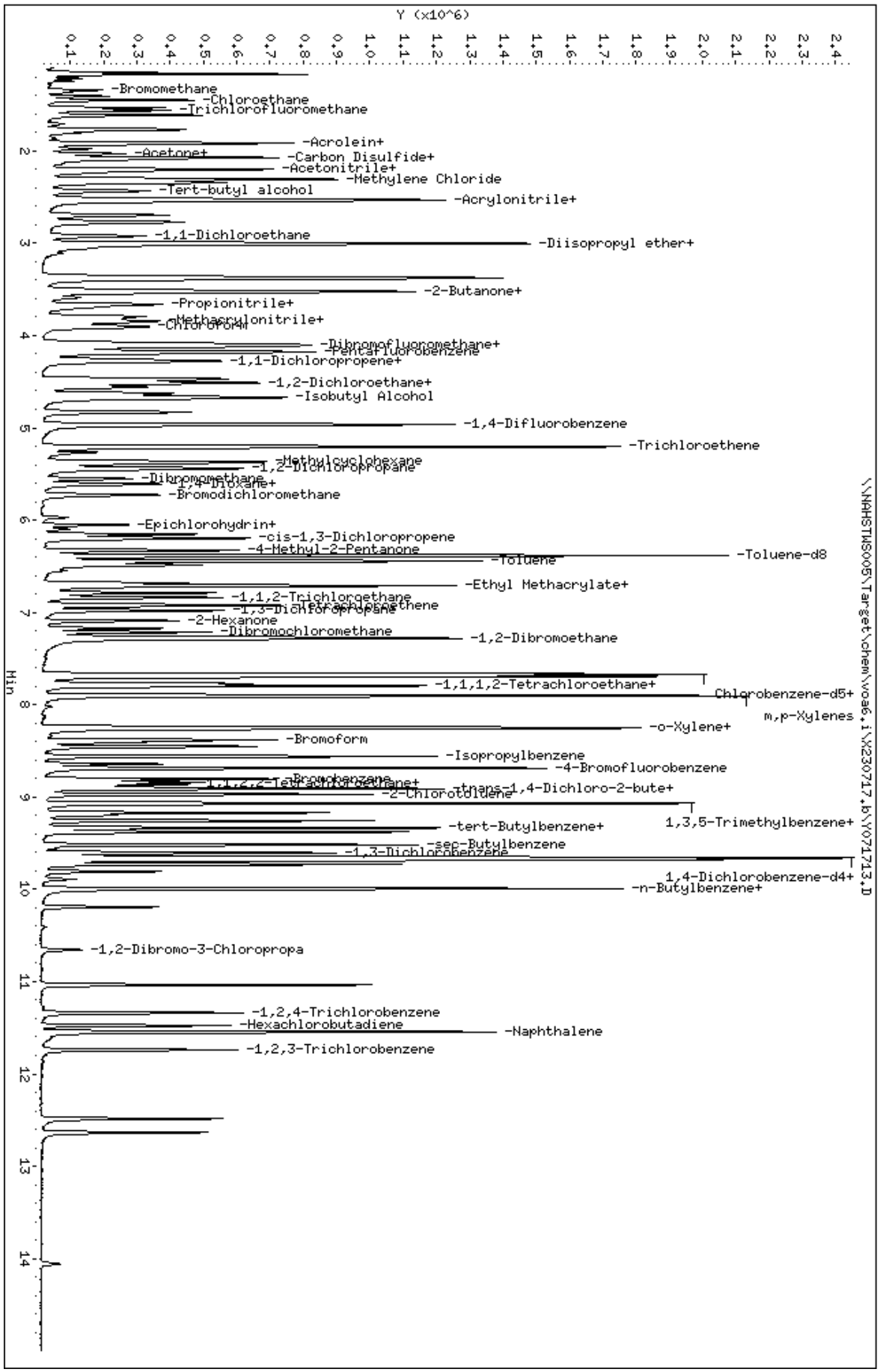
ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230717.b\Y071713.D
Lab Smp Id: HS23070546-03MSD Client Smp ID: HS23070546-03MSD
Inj Date : 18-JUL-2023 01:54
Operator : PC Inst ID: voa6.i
Smp Info : HS23070546-03MSD;HS23070546-03MSD;3;;MSD
Misc Info : V6;WATER;0;1000;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230717.b\8260W.m
Meth Date : 20-Jul-2023 15:02 voa6.i Quant Type: ISTD
Cal Date : 14-JUL-2023 14:24 Cal File: X071408.D
Als bottle: 42 QC Sample: MSD
Dil Factor: 1000.00000
Integrator: HP RTE Compound Sublist: 0474-dod.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1000.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.181	4.177	(1.000)	629996	50.0000	
$ 30 Dibromofluoromethane	113	4.099	4.099	(0.980)	312275	54.1455	54.14
$ 35 1,2-Dichloroethane-d4	65	4.474	4.470	(1.070)	380020	52.6632	52.66
* 36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	985284	50.0000	
* 47 Chlorobenzene-d5	117	7.668	7.667	(1.000)	849001	50.0000	
$ 48 Toluene-d8	98	6.385	6.385	(0.833)	1142656	52.2735	52.27
$ 69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	413302	48.8829	48.88
* 70 1,4-Dichlorobenzene-d4	152	9.662	9.658	(1.000)	442985	50.0000	
5 Vinyl Chloride	62	1.145	1.145	(0.274)	203244	24.9305	24930.46
11 1,1-Dichloroethene	96	1.917	1.917	(0.459)	117765	25.5156	25515.61
17 Methylene Chloride	84	2.303	2.303	(0.551)	136281	24.3180	24317.96
27 cis-1,2-Dichloroethene	96	3.529	3.529	(0.844)	407813	59.9630	59963.00
33 1,2-Dichloroethane	62	4.556	4.556	(0.918)	230054	21.2109	21210.87
38 Trichloroethene	130	5.205	5.205	(1.048)	560997	84.1558	84155.83
53 1,1,2-Trichloroethane	83	6.835	6.839	(0.891)	115724	23.8701	23870.07
20 trans-1,2-Dichloroethene	96	2.532	2.528	(0.606)	126013	23.6036	23603.56



Data File: \\NAHSTMS005\Target\chem\voa6.i\X230717.b\Y071713.D
Date : 18-JUL-2023 01:54
Client ID: HS23070546-03HSD
Sample Info: HS23070546-03HSD;HS23070546-03HSD;3;;HSD
Purge Volume: 5.0
Column phase: DB624

Instrument: voa6.i
Operator: PC
Column diameter: 0.18

Data File : \\NAHSTWS005\Target\chem\voa6.i\X230717.b\Y071713.D
Inj Date : 18-JUL-2023 01:54
InstruID : voa6.i
LabSampID : HS23070546-03MSD

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230717.b\Y071716.D Page 1
Report Date: 20-Jul-2023 15:03

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230717.b\Y071716.D
Lab Smp Id: HS23070546-04 Client Smp ID: HS23070546-04
Inj Date : 18-JUL-2023 02:56
Operator : PC Inst ID: voa6.i
Smp Info : HS23070546-04;HS23070546-04;;;
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230717.b\8260W.m
Meth Date : 20-Jul-2023 15:02 voa6.i Quant Type: ISTD
Cal Date : 14-JUL-2023 14:24 Cal File: X071408.D
Als bottle: 45
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 0474-dod.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.181	4.177	(1.000)	630037	50.0000	
$ 30 Dibromofluoromethane	113	4.103	4.099	(0.981)	310167	53.7713	53.77
$ 35 1,2-Dichloroethane-d4	65	4.474	4.470	(1.070)	382261	52.9739	52.97
* 36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	967410	50.0000	
* 47 Chlorobenzene-d5	117	7.668	7.667	(1.000)	855216	50.0000	
$ 48 Toluene-d8	98	6.385	6.385	(0.833)	1144725	51.9876	51.98
$ 69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	401243	47.0962	47.09
* 70 1,4-Dichlorobenzene-d4	152	9.662	9.658	(1.000)	430322	50.0000	
27 cis-1,2-Dichloroethene	96	3.537	3.529	(0.846)	31684	4.65837	4.65(a)
38 Trichloroethene	130	5.208	5.205	(1.049)	143141	21.8695	21.86

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).

01319895

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230717.b\Y071716.D

Date : 18-JUL-2023 02:56

Client ID: HS23070546-04

Instrument: voa6.i

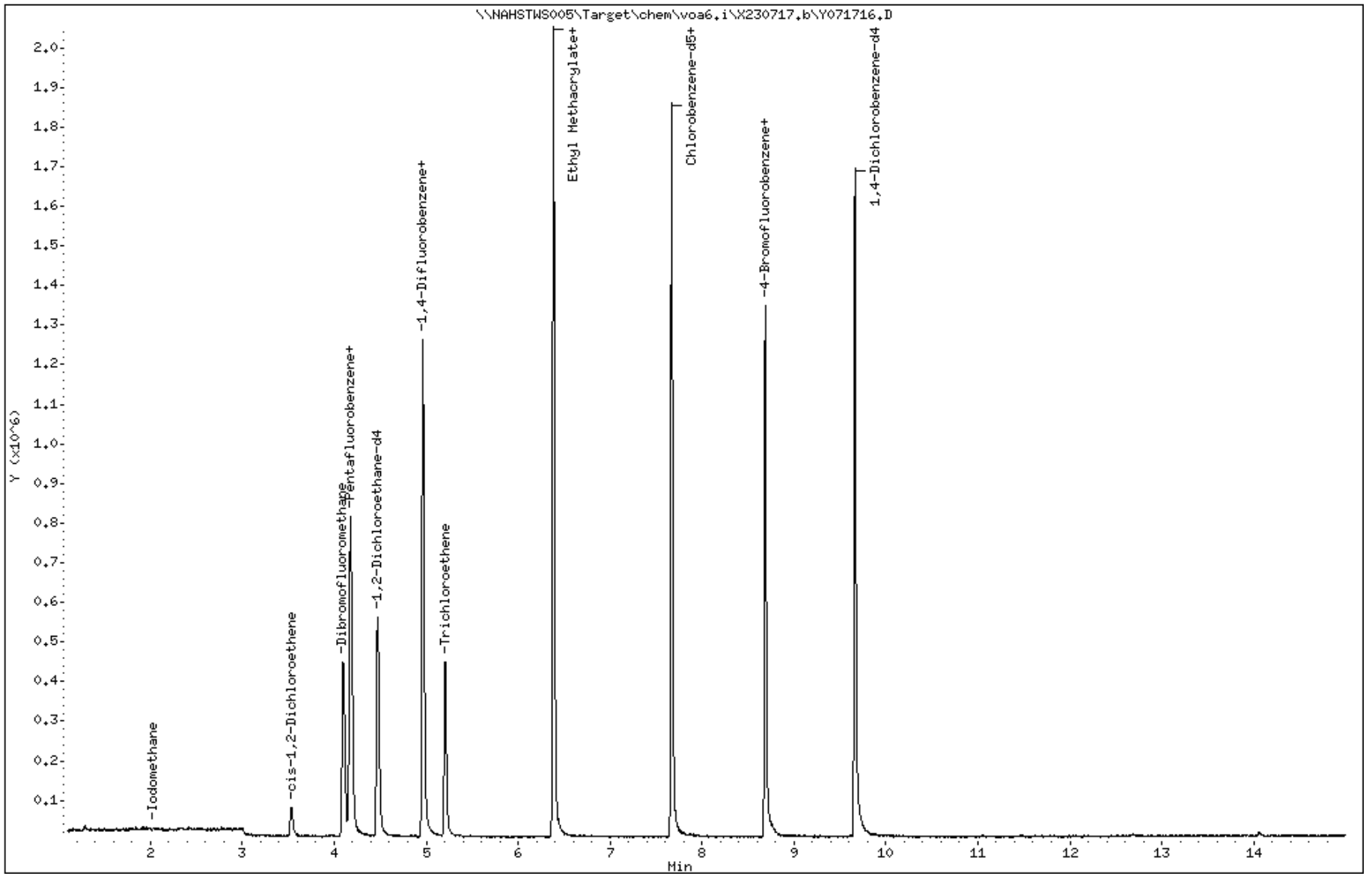
Sample Info: HS23070546-04;HS23070546-04;;;

Purge Volume: 5.0

Operator: PC

Column phase: DB624

Column diameter: 0.18



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230717.b\Y071716.D

Date : 18-JUL-2023 02:56

Client ID: HS23070546-04

Instrument: voa6.i

Sample Info: HS23070546-04;HS23070546-04;;;

Purge Volume: 5.0

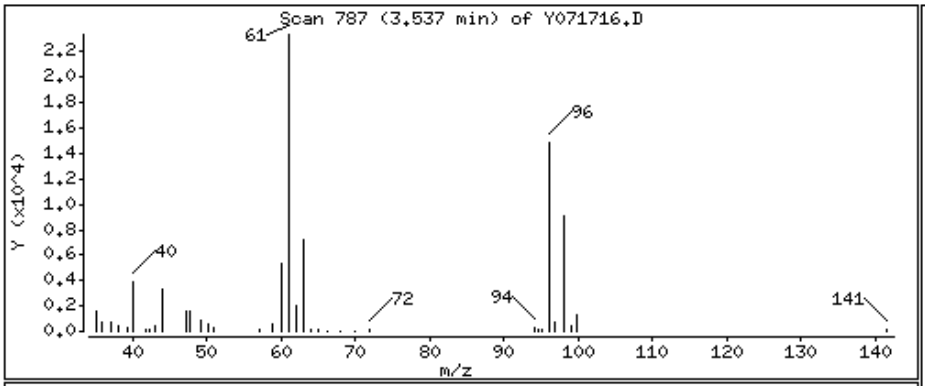
Operator: PC

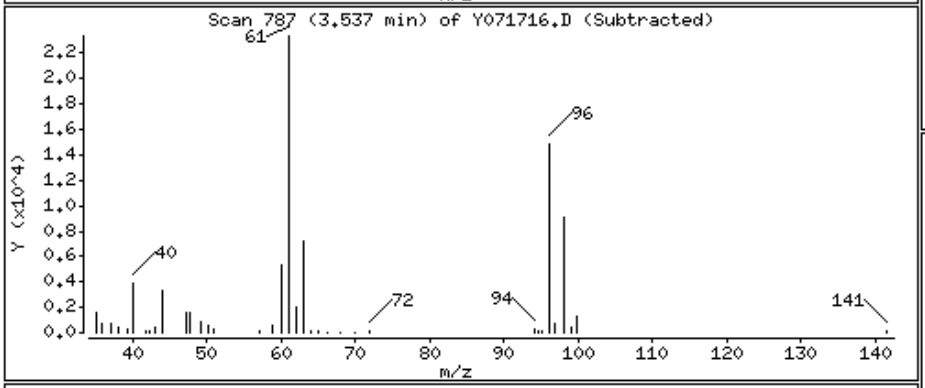
Column phase: DB624

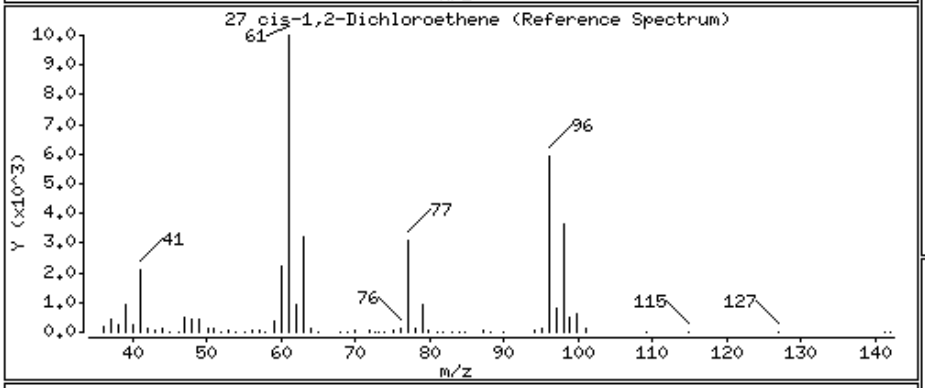
Column diameter: 0.18

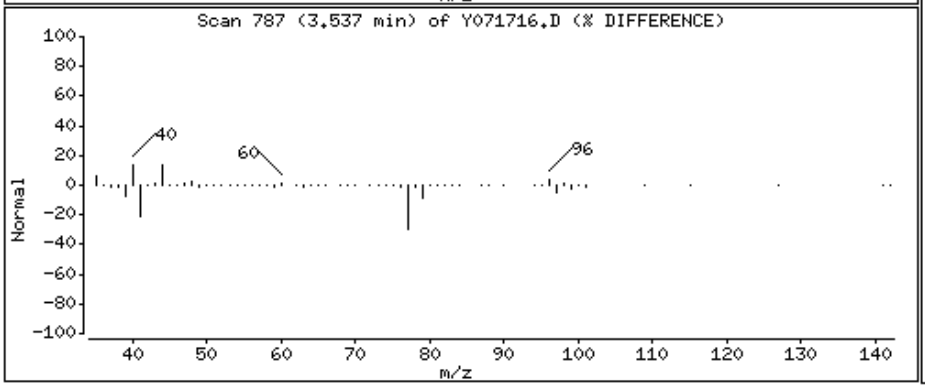
27 cis-1,2-Dichloroethene

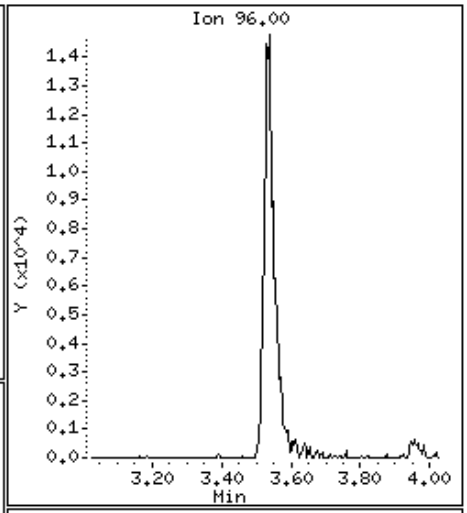
Concentration: 4.65 ug/l

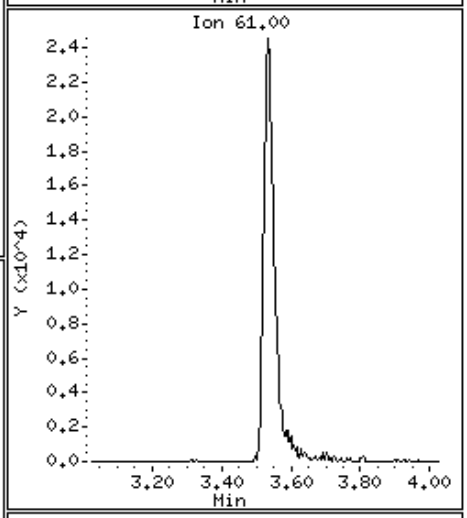


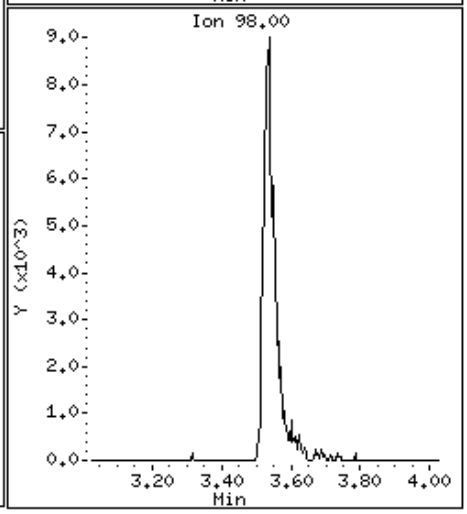












Data File: \\NAHSTWS005\Target\chem\voa6.i\X230717.b\Y071716.D

Date : 18-JUL-2023 02:56

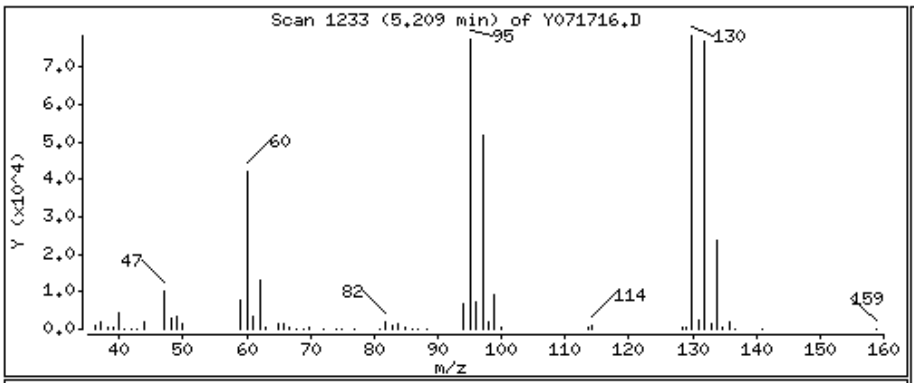
Client ID: HS23070546-04 Instrument: voa6.i

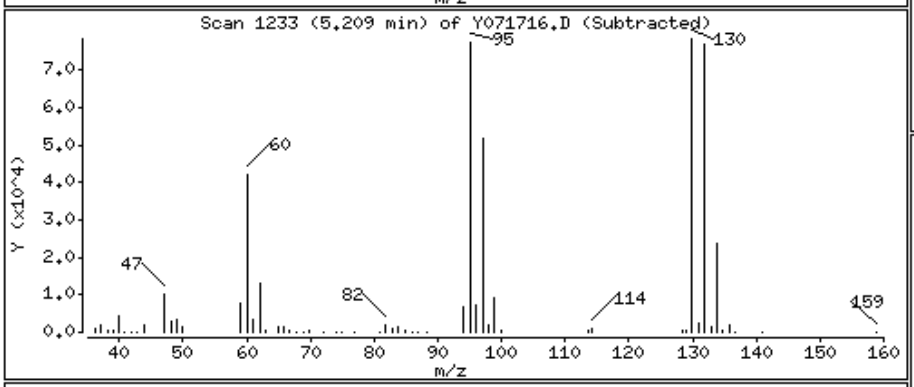
Sample Info: HS23070546-04;HS23070546-04;;;

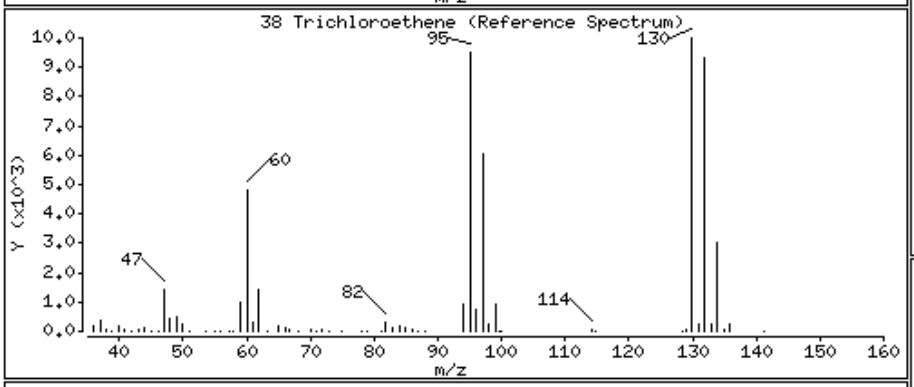
Purge Volume: 5.0 Operator: PC

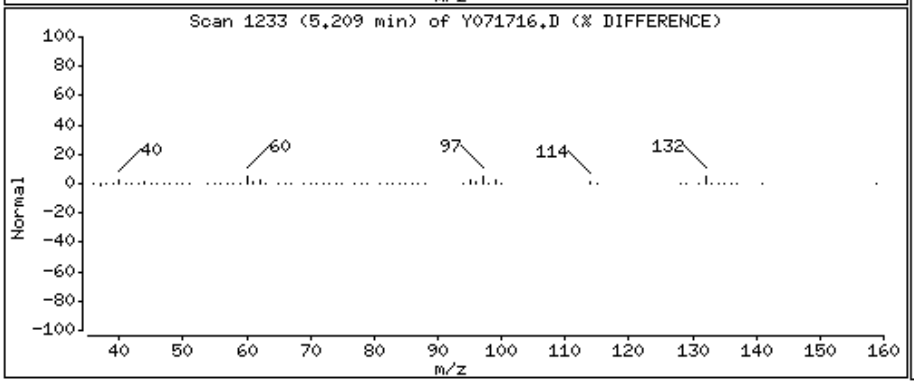
Column phase: DB624 Column diameter: 0.18

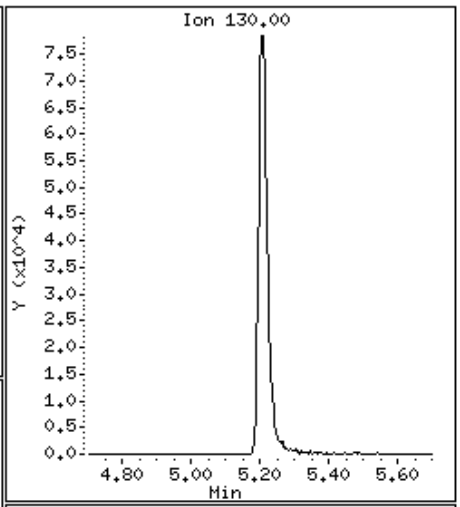
38 Trichloroethene Concentration: 21.86 ug/l

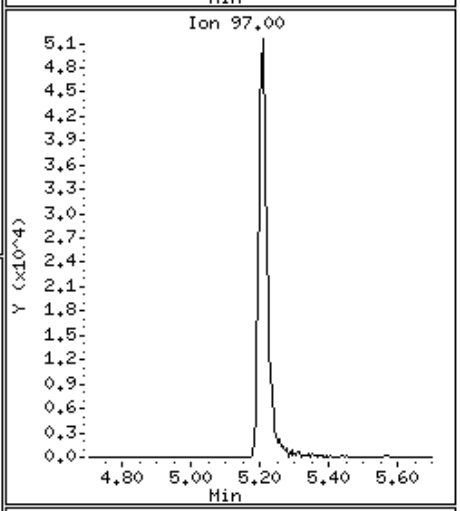


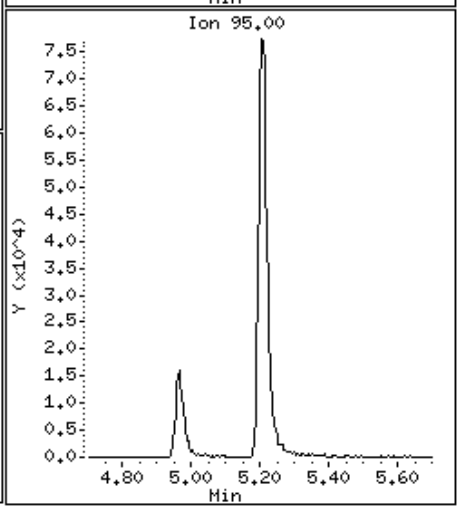












Data File : \\NAHSTWS005\Target\chem\voa6.i\X230717.b\Y071716.D
Inj Date : 18-JUL-2023 02:56
InstruID : voa6.i
LabSampID : HS23070546-04

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230717.b\Y071717.D Page 1
Report Date: 20-Jul-2023 15:03

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230717.b\Y071717.D
Lab Smp Id: HS23070546-05 Client Smp ID: HS23070546-05
Inj Date : 18-JUL-2023 03:16
Operator : PC Inst ID: voa6.i
Smp Info : HS23070546-05;HS23070546-05;;;
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230717.b\8260W.m
Meth Date : 20-Jul-2023 15:02 voa6.i Quant Type: ISTD
Cal Date : 14-JUL-2023 14:24 Cal File: X071408.D
Als bottle: 46
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 0474-dod.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.181	4.177	(1.000)	635348	50.0000	
$ 30 Dibromofluoromethane	113	4.095	4.099	(0.979)	305278	52.4630	52.46
$ 35 1,2-Dichloroethane-d4	65	4.470	4.470	(1.069)	376100	51.6693	51.66
* 36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	957298	50.0000	
* 47 Chlorobenzene-d5	117	7.668	7.667	(1.000)	836165	50.0000	
$ 48 Toluene-d8	98	6.386	6.385	(0.833)	1139072	52.9095	52.90
$ 69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	392607	47.1328	47.13
* 70 1,4-Dichlorobenzene-d4	152	9.662	9.658	(1.000)	420072	50.0000	
38 Trichloroethene	130	5.212	5.205	(1.050)	13086	2.02044	2.02(a)

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).

01319900

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230717.b\Y071717.D

Date : 18-JUL-2023 03:16

Client ID: HS23070546-05

Instrument: voa6.i

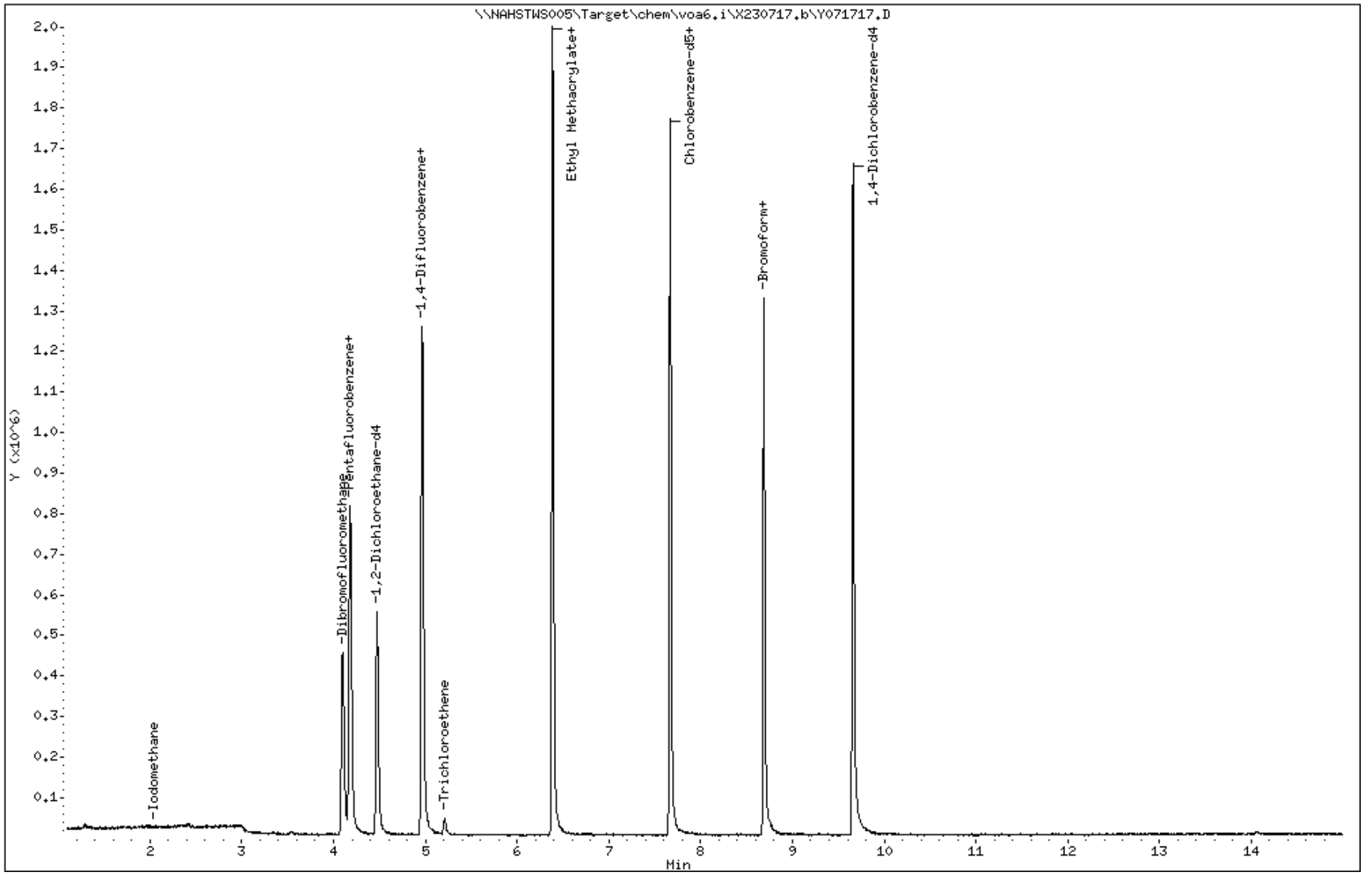
Sample Info: HS23070546-05;HS23070546-05;;;

Purge Volume: 5.0

Operator: PC

Column phase: DB624

Column diameter: 0.18



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230717.b\Y071717.D

Date : 18-JUL-2023 03:16

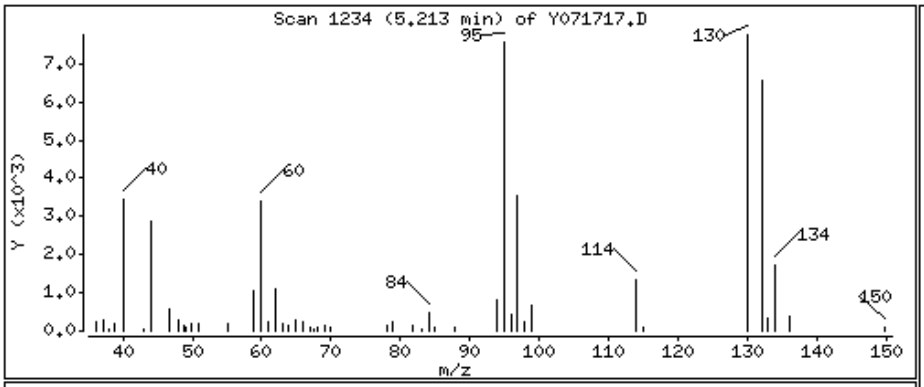
Client ID: HS23070546-05 Instrument: voa6.i

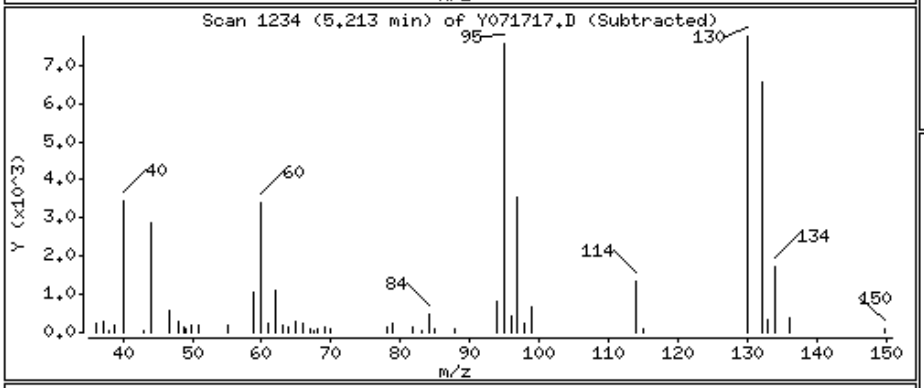
Sample Info: HS23070546-05;HS23070546-05;;;

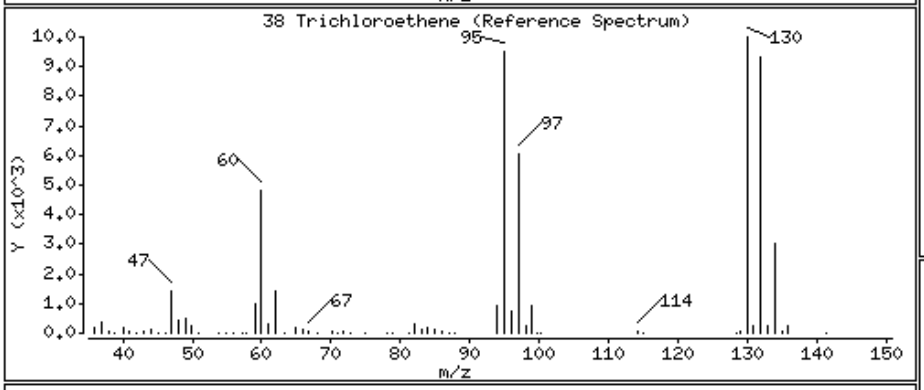
Purge Volume: 5.0 Operator: PC

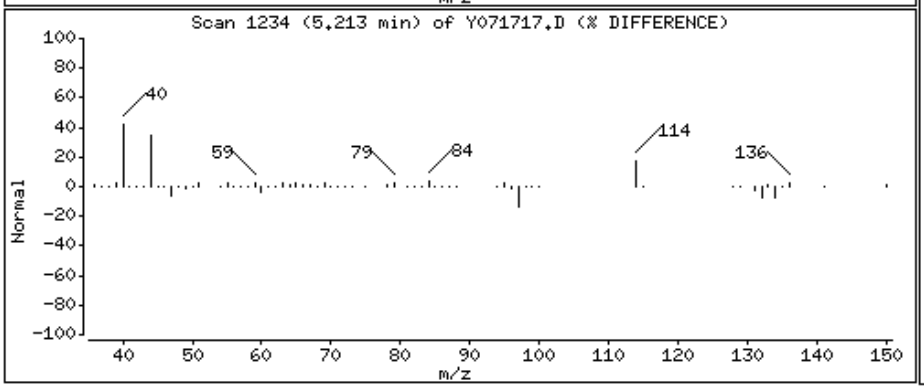
Column phase: DB624 Column diameter: 0.18

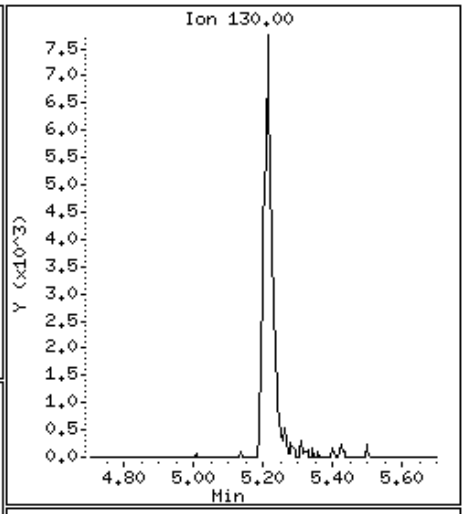
38 Trichloroethene Concentration: 2.02 ug/l

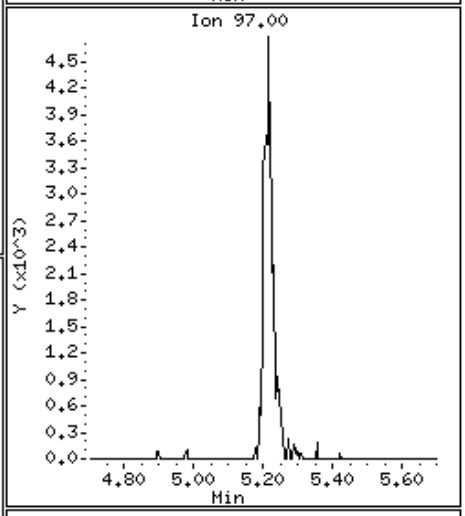


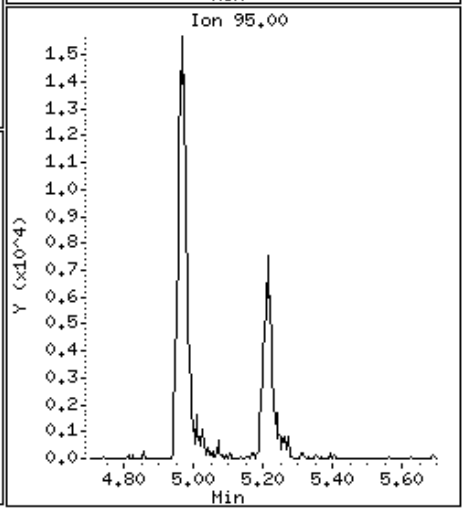












Data File : \\NAHSTWS005\Target\chem\voa6.i\X230717.b\Y071717.D
Inj Date : 18-JUL-2023 03:16
InstruID : voa6.i
LabSampID : HS23070546-05

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230717.b\Y071718.D Page 1
Report Date: 20-Jul-2023 15:03

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230717.b\Y071718.D
Lab Smp Id: HS23070546-06 Client Smp ID: HS23070546-06
Inj Date : 18-JUL-2023 03:37
Operator : PC Inst ID: voa6.i
Smp Info : HS23070546-06;HS23070546-06;;;
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230717.b\8260W.m
Meth Date : 20-Jul-2023 15:02 voa6.i Quant Type: ISTD
Cal Date : 14-JUL-2023 14:24 Cal File: X071408.D
Als bottle: 47
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 0474-dod.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.181	4.177	(1.000)	646720	50.0000	
$ 30 Dibromofluoromethane	113	4.099	4.099	(0.980)	303074	51.1496	51.14
$ 35 1,2-Dichloroethane-d4	65	4.470	4.470	(1.069)	377297	50.9133	50.91
* 36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	976383	50.0000	
* 47 Chlorobenzene-d5	117	7.667	7.667	(1.000)	866202	50.0000	
$ 48 Toluene-d8	98	6.385	6.385	(0.833)	1154115	51.7493	51.74
$ 69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	413088	47.8787	47.87
* 70 1,4-Dichlorobenzene-d4	152	9.662	9.658	(1.000)	445066	50.0000	
38 Trichloroethene	130	5.208	5.205	(1.049)	8480	1.28369	1.28(a)

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).

01319904

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230717.b\Y071718.D

Date : 18-JUL-2023 03:37

Client ID: HS23070546-06

Instrument: voa6.i

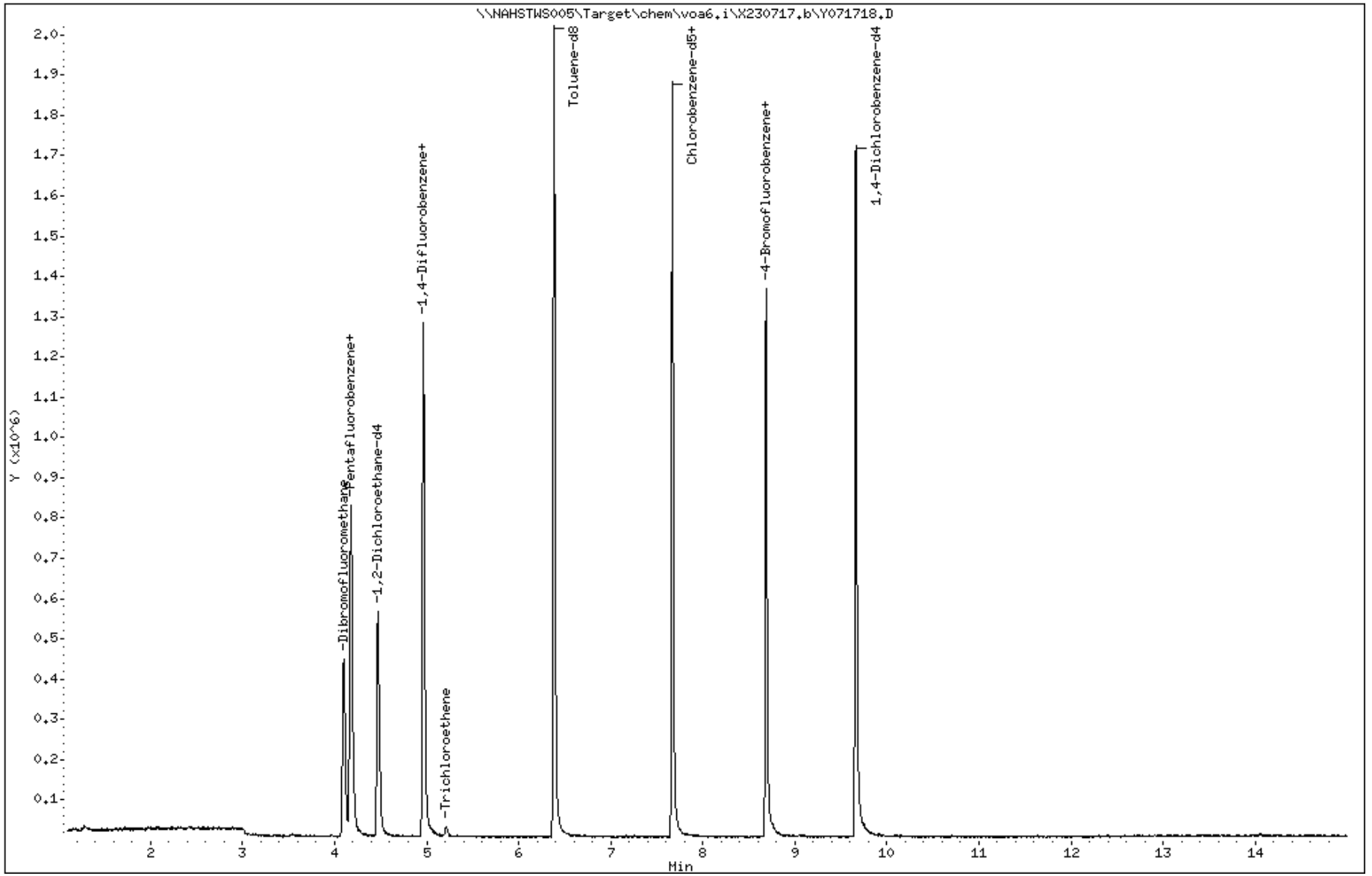
Sample Info: HS23070546-06;HS23070546-06;;;

Purge Volume: 5.0

Operator: PC

Column phase: DB624

Column diameter: 0.18



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230717.b\Y071718.D

Date : 18-JUL-2023 03:37

Client ID: HS23070546-06

Instrument: voa6.i

Sample Info: HS23070546-06;HS23070546-06;;;

Purge Volume: 5.0

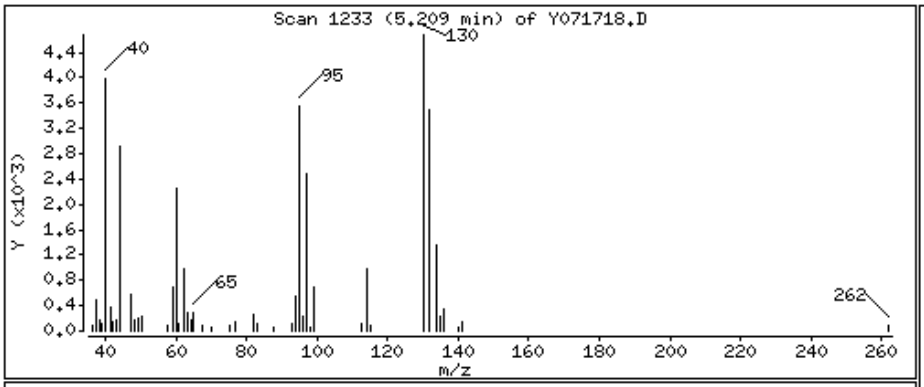
Operator: PC

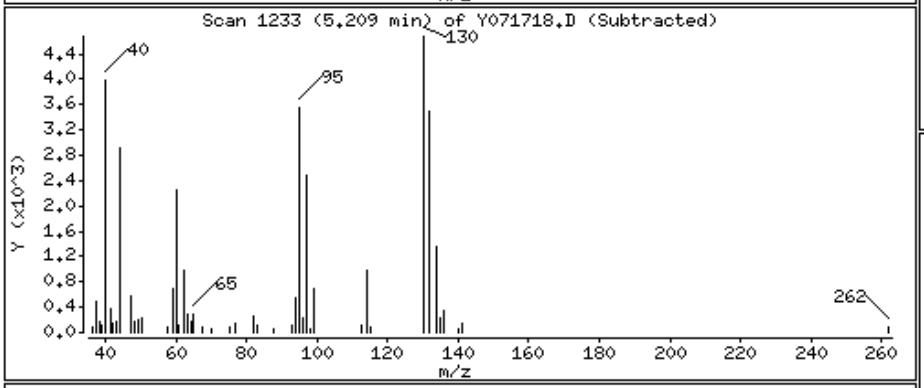
Column phase: DB624

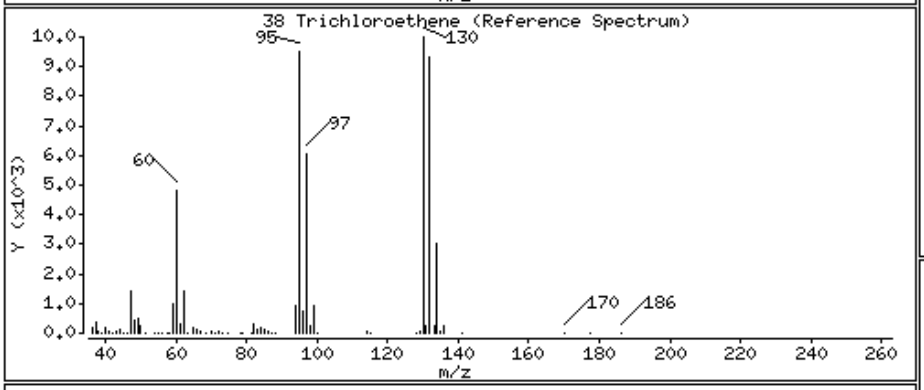
Column diameter: 0.18

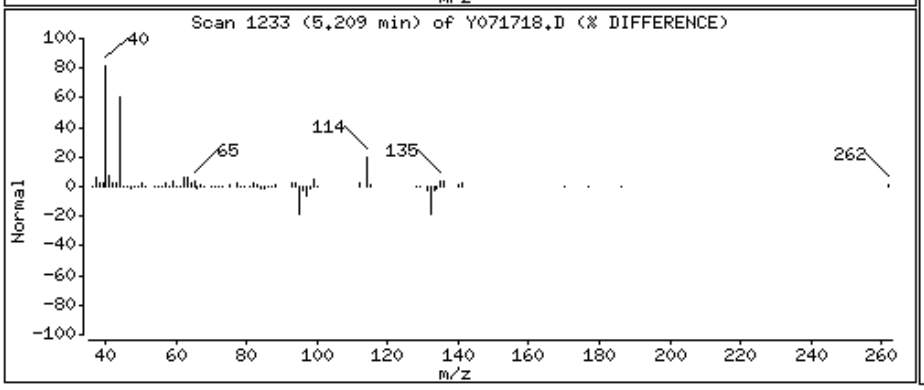
38 Trichloroethene

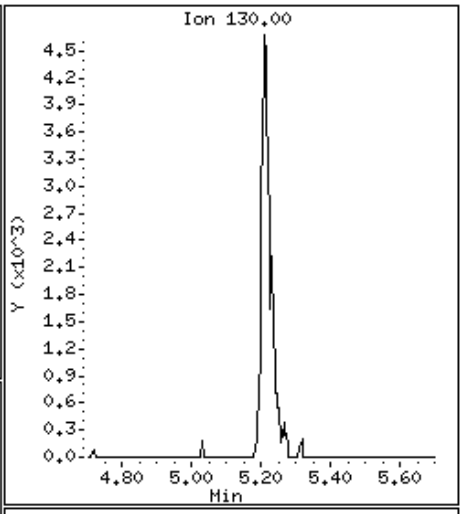
Concentration: 1.28 ug/l

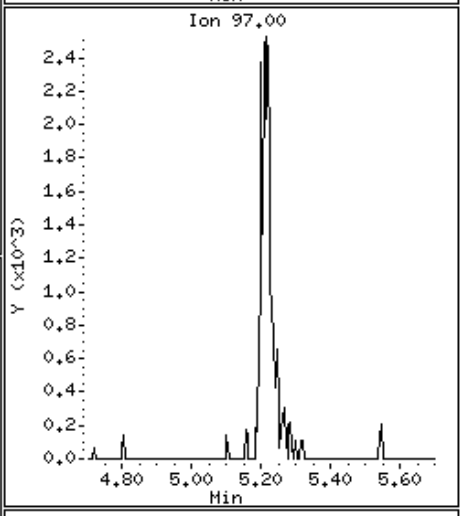


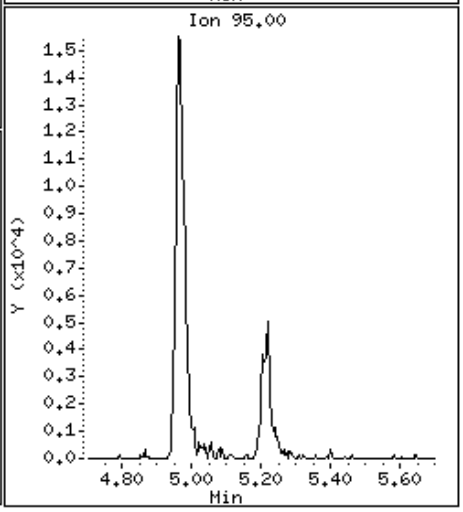












Data File : \\NAHSTWS005\Target\chem\voa6.i\X230717.b\Y071718.D
Inj Date : 18-JUL-2023 03:37
InstruID : voa6.i
LabSampID : HS23070546-06

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230717.b\Y071719.D Page 1
Report Date: 20-Jul-2023 15:03

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230717.b\Y071719.D
Lab Smp Id: HS23070546-07 Client Smp ID: HS23070546-07
Inj Date : 18-JUL-2023 03:57
Operator : PC Inst ID: voa6.i
Smp Info : HS23070546-07;HS23070546-07;;;
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230717.b\8260W.m
Meth Date : 20-Jul-2023 15:02 voa6.i Quant Type: ISTD
Cal Date : 14-JUL-2023 14:24 Cal File: X071408.D
Als bottle: 48
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 0474-dod.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.178	4.177	(1.000)	650814	50.0000	
$ 30 Dibromofluoromethane	113	4.099	4.099	(0.981)	320733	53.8287	53.82
$ 35 1,2-Dichloroethane-d4	65	4.470	4.470	(1.070)	409663	54.9823	54.98
* 36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	961924	50.0000	
* 47 Chlorobenzene-d5	117	7.668	7.667	(1.000)	868104	50.0000	
$ 48 Toluene-d8	98	6.386	6.385	(0.833)	1144545	51.2077	51.20
$ 69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	415527	48.0574	48.05
* 70 1,4-Dichlorobenzene-d4	152	9.662	9.658	(1.000)	461392	50.0000	
38 Trichloroethene	130	5.209	5.205	(1.049)	5736	0.88136	0.88(a)

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).

01319908

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230717.b\Y071719.D

Date : 18-JUL-2023 03:57

Client ID: HS23070546-07

Instrument: voa6.i

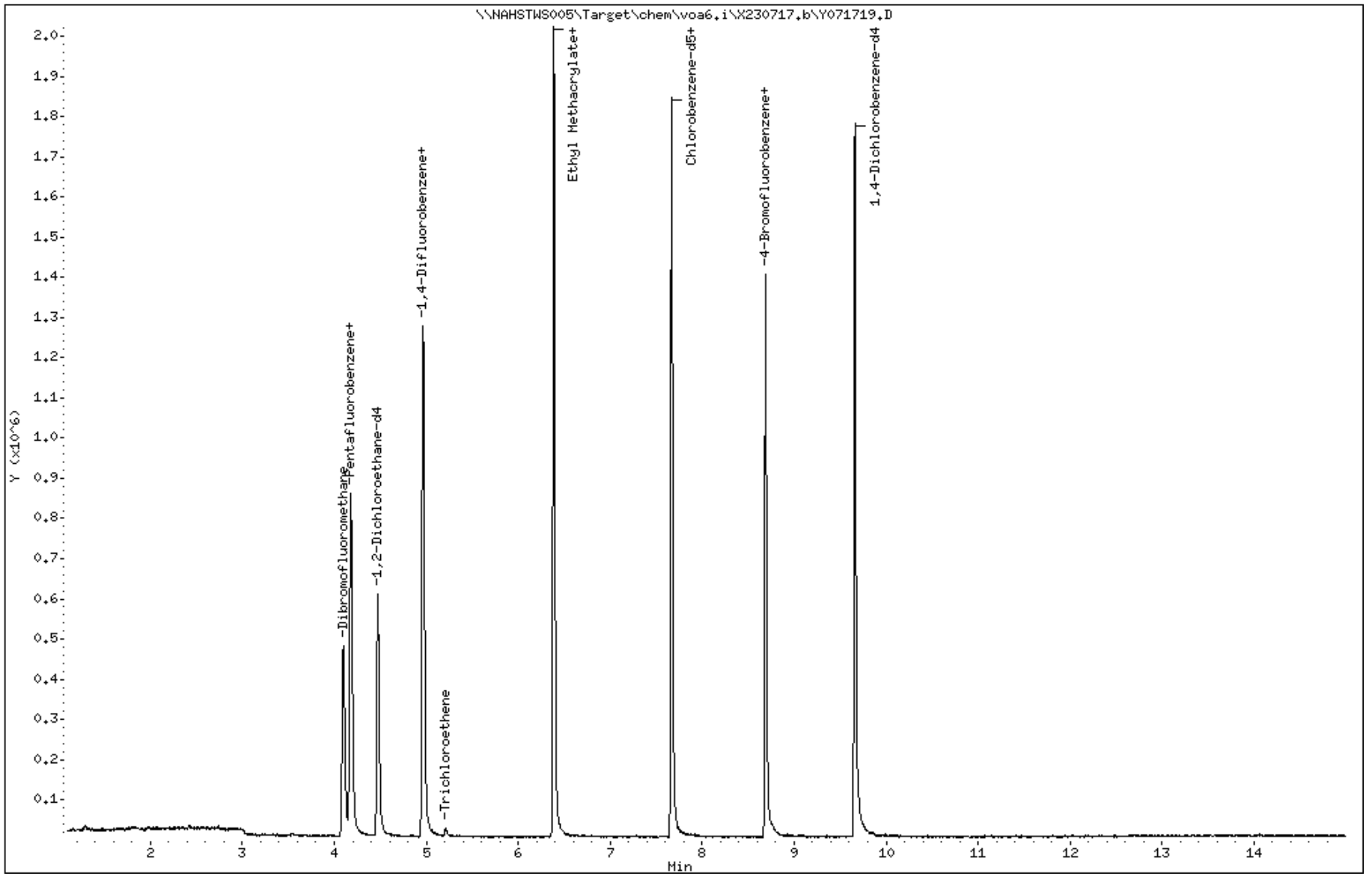
Sample Info: HS23070546-07;HS23070546-07;;;

Purge Volume: 5.0

Operator: PC

Column phase: DB624

Column diameter: 0.18



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230717.b\Y071719.D

Date : 18-JUL-2023 03:57

Client ID: HS23070546-07

Instrument: voa6.i

Sample Info: HS23070546-07;HS23070546-07;;;

Purge Volume: 5.0

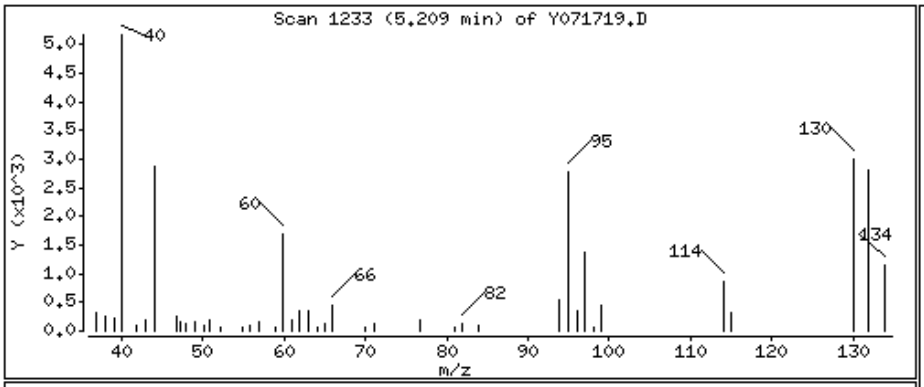
Operator: PC

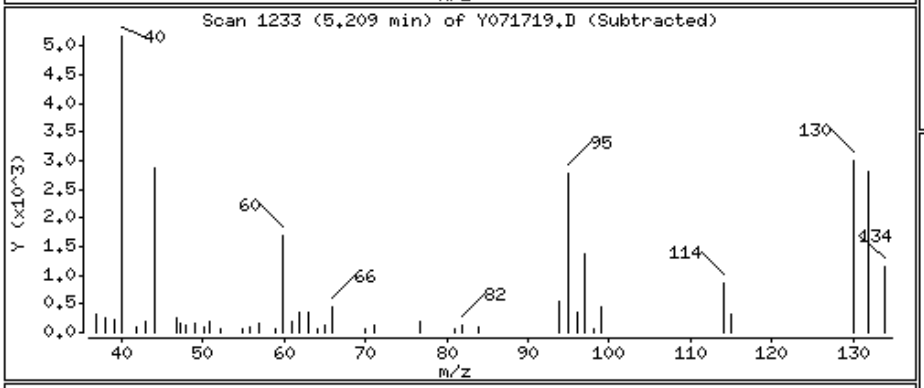
Column phase: DB624

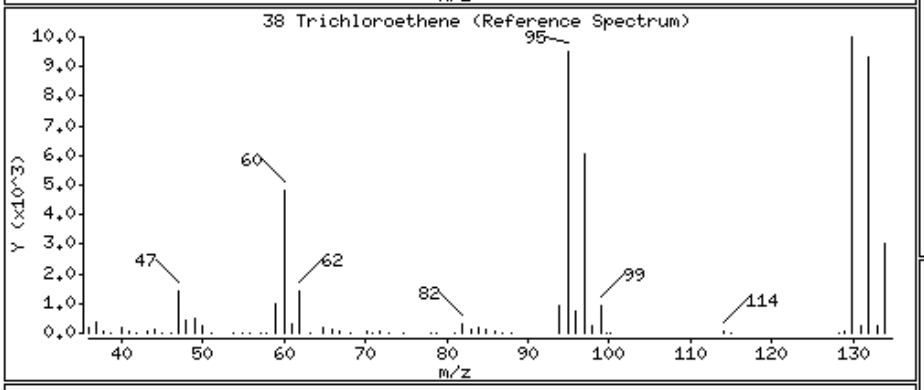
Column diameter: 0.18

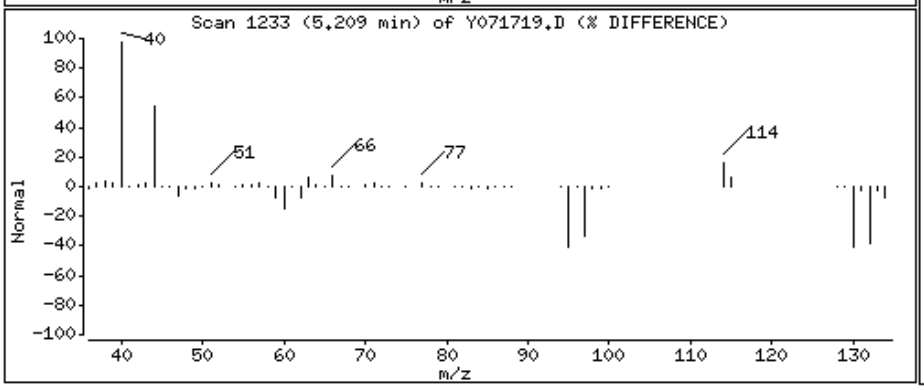
38 Trichloroethene

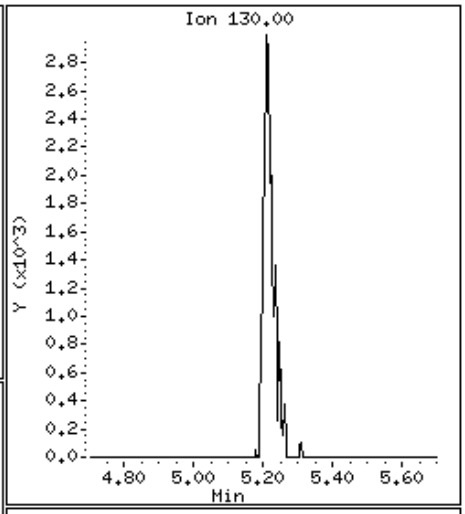
Concentration: 0.88 ug/l

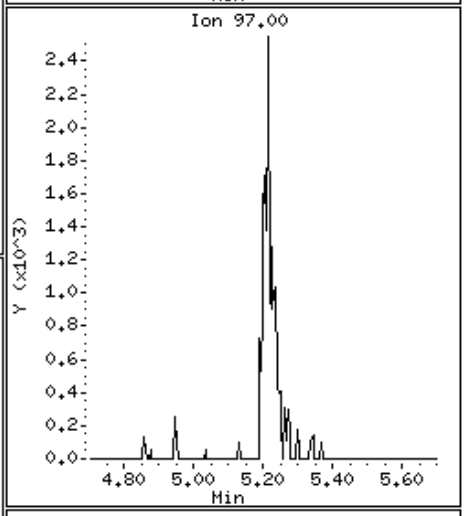


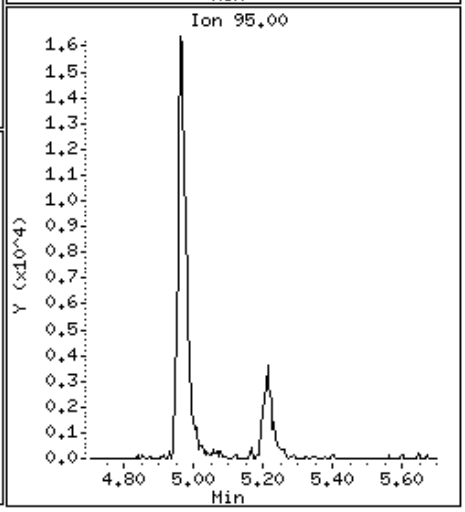












Data File : \\NAHSTWS005\Target\chem\voa6.i\X230717.b\Y071719.D
Inj Date : 18-JUL-2023 03:57
InstruID : voa6.i
LabSampID : HS23070546-07

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230717.b\Y071720.D Page 1
Report Date: 20-Jul-2023 15:03

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230717.b\Y071720.D
Lab Smp Id: HS23070546-08 Client Smp ID: HS23070546-08
Inj Date : 18-JUL-2023 04:18
Operator : PC Inst ID: voa6.i
Smp Info : HS23070546-08;HS23070546-08;;;
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230717.b\8260W.m
Meth Date : 20-Jul-2023 15:02 voa6.i Quant Type: ISTD
Cal Date : 14-JUL-2023 14:24 Cal File: X071408.D
Als bottle: 49
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 0474-dod.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.178	4.177	(1.000)	641390	50.0000	
$ 30 Dibromofluoromethane	113	4.103	4.099	(0.982)	307736	52.3861	52.38
$ 35 1,2-Dichloroethane-d4	65	4.470	4.470	(1.070)	377879	51.4217	51.42
* 36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	956226	50.0000	
* 47 Chlorobenzene-d5	117	7.668	7.667	(1.000)	855822	50.0000	
$ 48 Toluene-d8	98	6.386	6.385	(0.833)	1124894	51.0508	51.05
$ 69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	379159	44.4487	44.44
* 70 1,4-Dichlorobenzene-d4	152	9.662	9.658	(1.000)	419986	50.0000	
27 cis-1,2-Dichloroethene	96	3.537	3.529	(0.847)	16579	2.39440	2.39(a)
38 Trichloroethene	130	5.208	5.205	(1.049)	122882	18.9938	18.99

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).

01319912

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230717.b\Y071720.D

Date : 18-JUL-2023 04:18

Client ID: HS23070546-08

Instrument: voa6.i

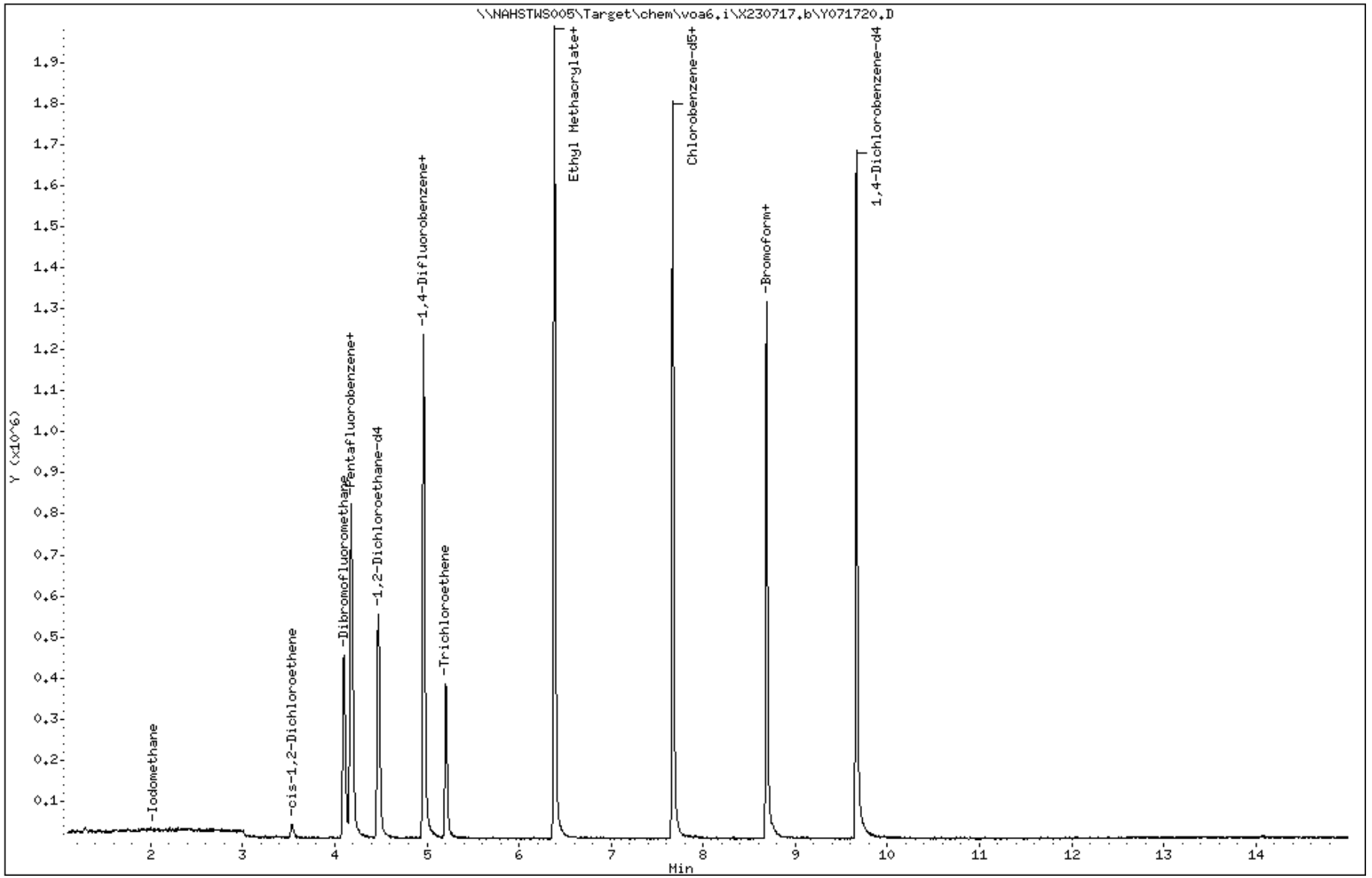
Sample Info: HS23070546-08;HS23070546-08;;;

Purge Volume: 5.0

Operator: PC

Column phase: DB624

Column diameter: 0.18



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230717.b\Y071720.D

Date : 18-JUL-2023 04:18

Client ID: HS23070546-08

Instrument: voa6.i

Sample Info: HS23070546-08;HS23070546-08;;;

Purge Volume: 5.0

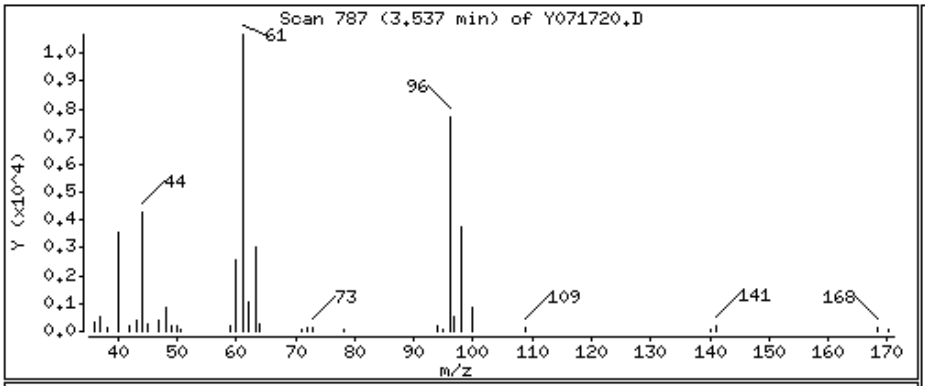
Operator: PC

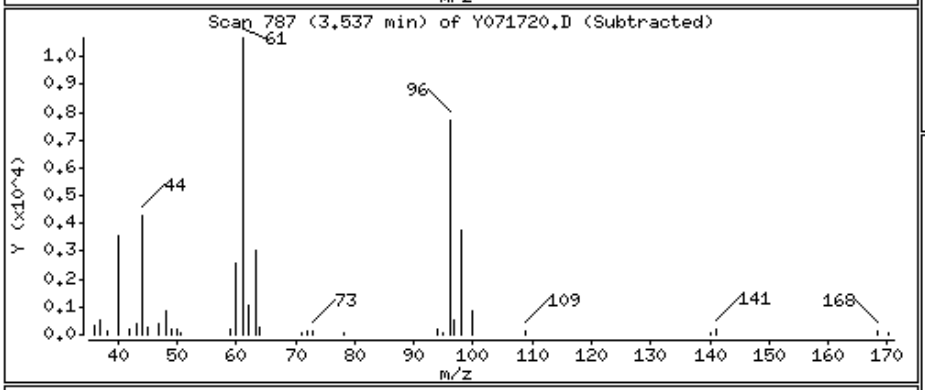
Column phase: DB624

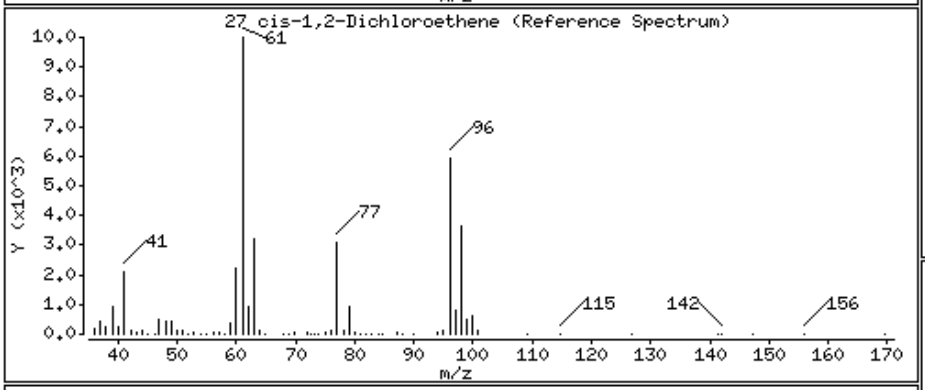
Column diameter: 0.18

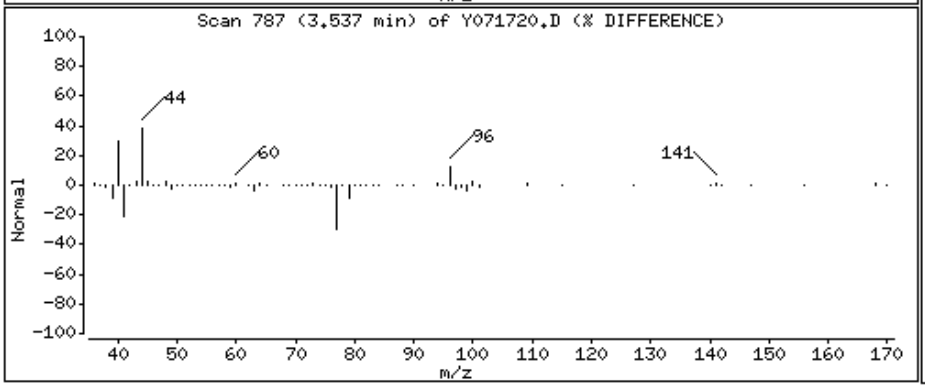
27 cis-1,2-Dichloroethene

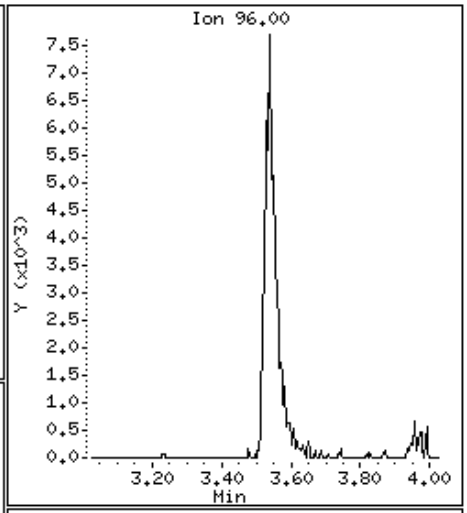
Concentration: 2.39 ug/l

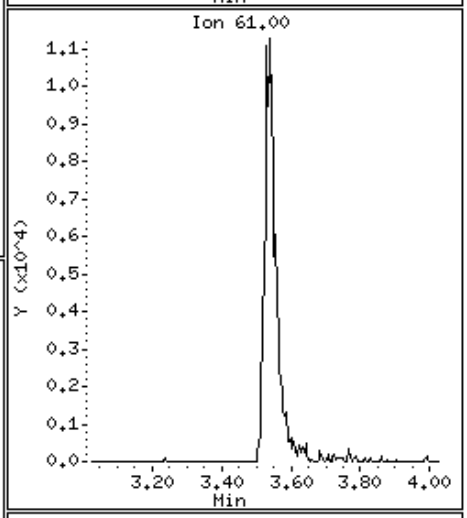


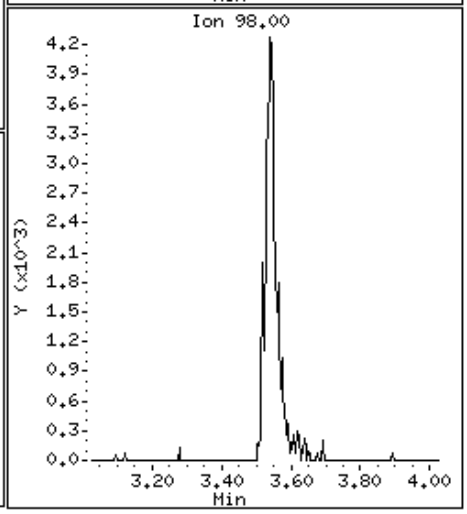












Data File: \\NAHSTWS005\Target\chem\voa6.i\X230717.b\Y071720.D

Date : 18-JUL-2023 04:18

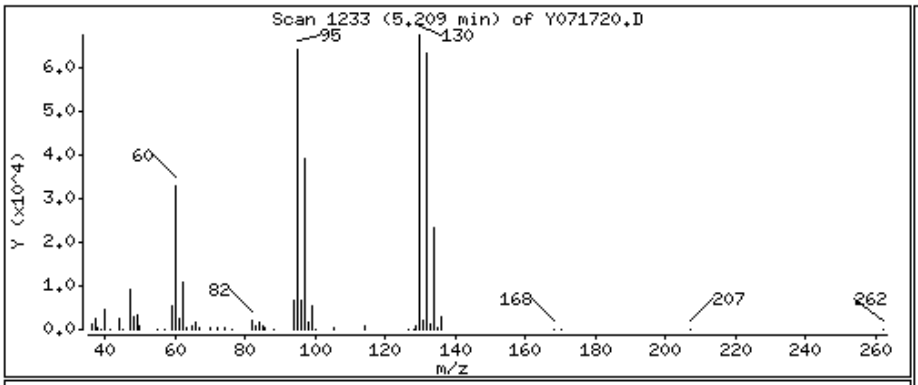
Client ID: HS23070546-08 Instrument: voa6.i

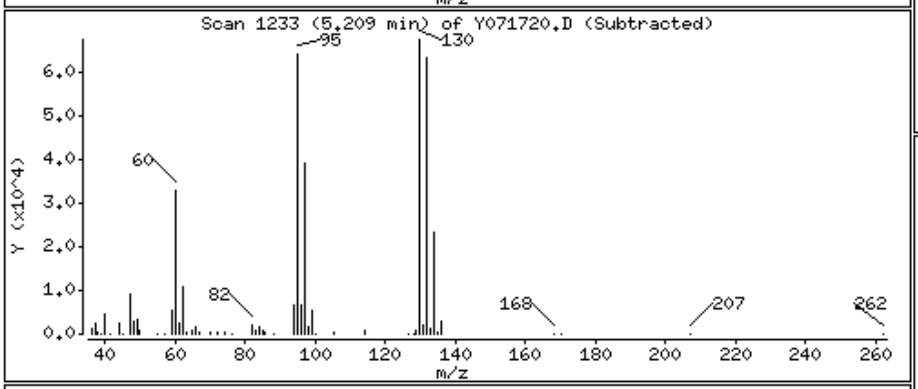
Sample Info: HS23070546-08;HS23070546-08;;;

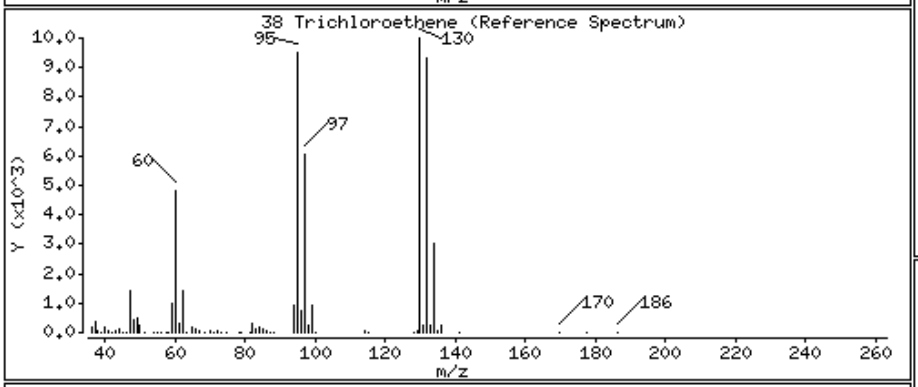
Purge Volume: 5.0 Operator: PC

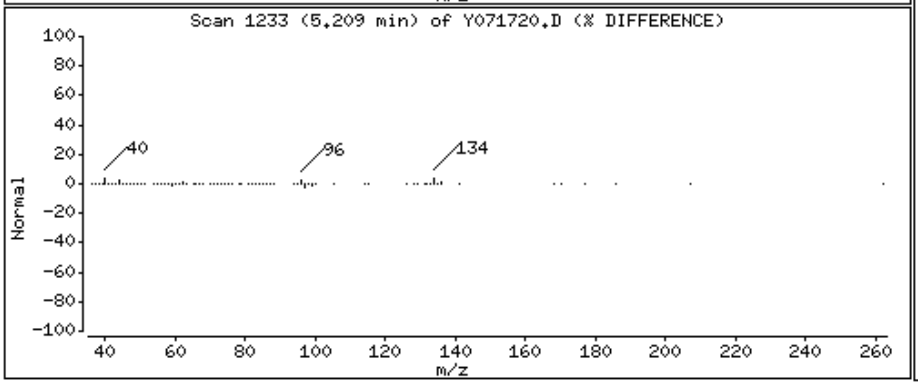
Column phase: DB624 Column diameter: 0.18

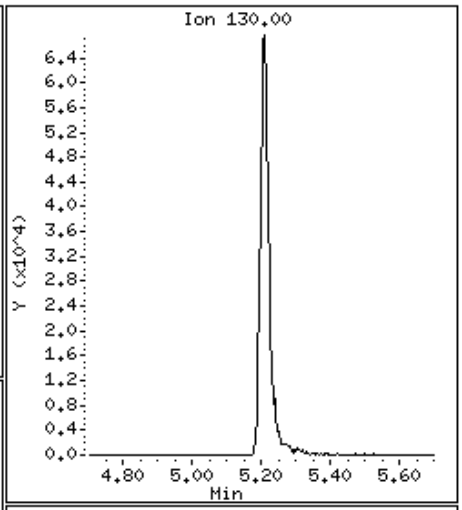
38 Trichloroethene Concentration: 18.99 ug/l

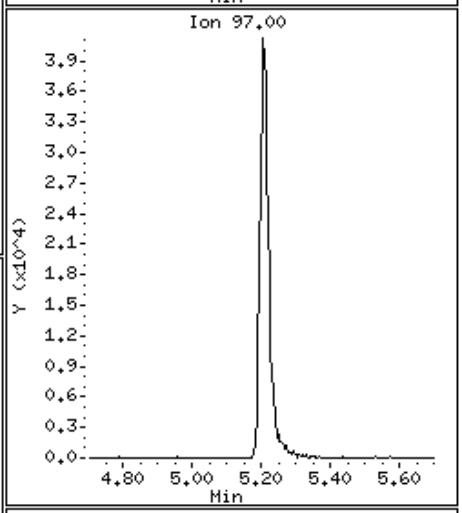


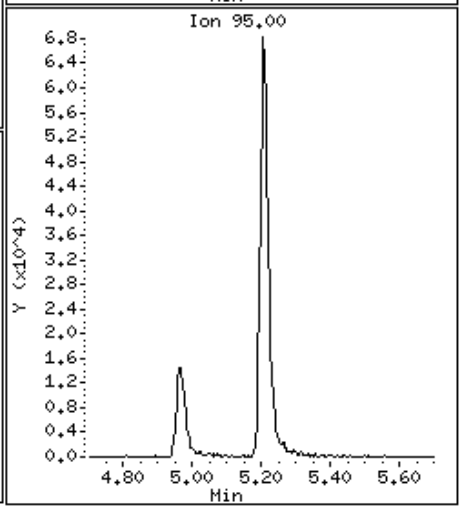












Data File : \\NAHSTWS005\Target\chem\voa6.i\X230717.b\Y071720.D
Inj Date : 18-JUL-2023 04:18
InstruID : voa6.i
LabSampID : HS23070546-08

NO MANUAL INTEGRATIONS

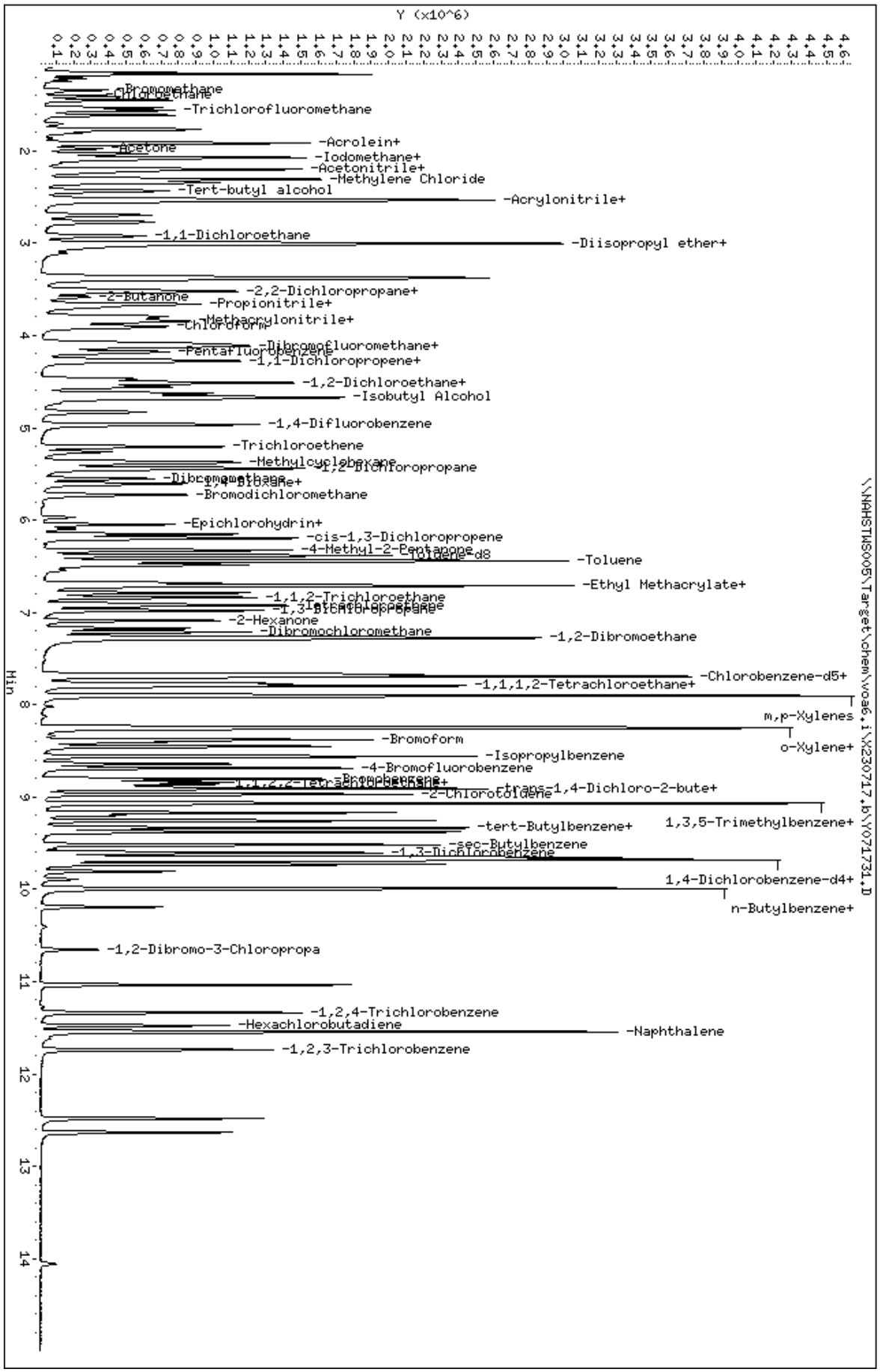
ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230717.b\Y071731.D
Lab Smp Id: CCV-END Client Smp ID: CCV-END
Inj Date : 18-JUL-2023 08:04
Operator : PC Inst ID: voa6.i
Smp Info : CCV-END;CCV-END;2;;
Misc Info : V6;WATER;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\voa6.i\X230717.b\8260W.m
Meth Date : 20-Jul-2023 15:03 voa6.i Quant Type: ISTD
Cal Date : 14-JUL-2023 14:24 Cal File: X071408.D
Als bottle: 60 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 0474-dod.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1 Pentafluorobenzene	168	4.181	4.181	(1.000)	573695	50.0000	
$ 30 Dibromofluoromethane	113	4.099	4.099	(0.980)	298982	50.0000	56.96
$ 35 1,2-Dichloroethane-d4	65	4.470	4.470	(1.069)	364028	50.0000	55.43
* 36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	988051	50.0000	
* 47 Chlorobenzene-d5	117	7.667	7.667	(1.000)	904392	50.0000	
$ 48 Toluene-d8	98	6.382	6.382	(0.832)	1111588	50.0000	47.73
$ 69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	470619	50.0000	52.28
* 70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	466938	50.0000	
5 Vinyl Chloride	62	1.145	1.145	(0.274)	455164	50.0000	61.31
11 1,1-Dichloroethene	96	1.917	1.917	(0.459)	255159	50.0000	60.70
17 Methylene Chloride	84	2.303	2.303	(0.551)	300379	50.0000	60.86
27 cis-1,2-Dichloroethene	96	3.525	3.525	(0.843)	338010	50.0000	54.57
33 1,2-Dichloroethane	62	4.556	4.556	(0.918)	538192	50.0000	49.48
38 Trichloroethene	130	5.201	5.201	(1.048)	336612	50.0000	50.35
53 1,1,2-Trichloroethane	83	6.835	6.835	(0.891)	257973	50.0000	49.95
20 trans-1,2-Dichloroethene	96	2.528	2.528	(0.605)	276291	50.0000	56.83



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230717.b\Y071731.D
Date : 18-JUL-2023 08:04
Client ID: CCV-END
Sample Info: CCV-END;CCV-END;2;;
Purge Volume: 5.0
Column phase: DB624

Instrument: voa6.i
Operator: PC
Column diameter: 0.18

Data File : \\NAHSTWS005\Target\chem\voa6.i\X230717.b\Y071731.D
Inj Date : 18-JUL-2023 08:04
InstruID : voa6.i
LabSampID : CCV-END

NO MANUAL INTEGRATIONS

HS23070546-GCSEMI-RSK-175

ALS WO# HS23070546

01319920

right solutions.
right partner.

Form 1

Organic Analysis Data Sheet

Dissolved Gasses by RSK-175

Workorder
HS23070546

Client
Aptim Environmental & Infrastucture, Inc.

Project
LHAAP 16 January 2023

07/27/2023

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Form 1 - Organic Analysis Data Sheet

Client Aptim Environmental & Infrastucture, Inc.

Project LHAAP 16 January 2023

Workorder **HS23070546**

Dissolved Gasses by RSK-175

HS23070546-01

16WW58-230711

Collected	Received	Matrix	Basis
07/11/23 07:05	07/12/23 10:05	Groundwater	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
Ethane	mg/L	0.00100	U	0.000144	0.00100	0.00100	1	07/13/23 17:42	FID-4_441466	047.D
Ethene	mg/L	0.000558	J	0.000234	0.00100	0.00100	1	07/13/23 17:42	FID-4_441466	047.D
Methane	mg/L	0.00897		0.000107	0.000500	0.000500	1	07/13/23 17:42	FID-4_441466	047.D

Form 1 - Organic Analysis Data Sheet

Client Aptim Environmental & Infrastucture, Inc.

Project LHAAP 16 January 2023

Workorder **HS23070546**

Dissolved Gasses by RSK-175

HS23070546-02

16WW57-230711

Collected	Received	Matrix	Basis
07/11/23 07:50	07/12/23 10:05	Groundwater	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
Ethane	mg/L	0.00100	U	0.000144	0.00100	0.00100	1	07/13/23 17:50	FID-4_441466	048.D
Ethene	mg/L	0.00100	U	0.000234	0.00100	0.00100	1	07/13/23 17:50	FID-4_441466	048.D
Methane	mg/L	0.00131		0.000107	0.000500	0.000500	1	07/13/23 17:50	FID-4_441466	048.D

Form 1 - Organic Analysis Data Sheet

Client Aptim Environmental & Infrastucture, Inc.

Project LHAAP 16 January 2023

Workorder **HS23070546**

Dissolved Gasses by RSK-175

HS23070546-03

16WW16-230711

Collected	Received	Matrix	Basis
07/11/23 08:45	07/12/23 10:05	Groundwater	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
Ethane	mg/L	0.0151		0.000144	0.00100	0.00100	1	07/13/23 18:00	FID-4_441466	049.D
Ethene	mg/L	0.0159		0.000234	0.00100	0.00100	1	07/13/23 18:00	FID-4_441466	049.D
Methane	mg/L	1.66		0.00535	0.0250	0.0250	50	07/13/23 18:12	FID-4_441466	050.D

Form 1 - Organic Analysis Data Sheet

Client Aptim Environmental & Infrastucture, Inc.

Project LHAAP 16 January 2023

Workorder **HS23070546**

Dissolved Gasses by RSK-175

MBLK-230713

MBLK-230713

Collected	Received	Matrix	Basis
NA	NA	Aqueous	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
Ethane	mg/L	0.00100	U	0.000144	0.00100	0.00100	1	07/13/23 16:16	FID-4_441466	039.D
Ethene	mg/L	0.00100	U	0.000234	0.00100	0.00100	1	07/13/23 16:16	FID-4_441466	039.D
Methane	mg/L	0.000500	U	0.000107	0.000500	0.000500	1	07/13/23 16:16	FID-4_441466	039.D

01319925

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right partner.

Form 3A

Matrix Spike/Spike Duplicate Recovery

Dissolved Gasses by RSK-175

Workorder
HS23070546

Client
Aptim Environmental & Infrastucture, Inc.

Project
LHAAP 16 January 2023

07/27/2023

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Form 3A - Matrix Spike/Spike Duplicate Recovery

Client Aptim Environmental & Infrastucture, Inc.

Project LHAAP 16 January 2023

Workorder **HS23070546**

RunID FID-4-441466

Dissolved Gasses by RSK-175

				HS23070546-03MS				
Sample Matrix Aqueous			**Run Date**	07/13/23				
Result Units mg/L			**Run Time**	16:59				
			Data File	043.D				
Analyte	%R Limits	DF	Sample Result	MS Result	Spike Added	%R	Q	
Ethane	75-125	1	0.009667	0.0284	0.0180	104		
Ethene	75-125	1	0.01903	0.0303	0.0168	67		
Methane	75-125	1	1.912	1.73	0.0096	-		

Q - %Recovery / RPD Flag * - %Recovery / RPD Outside Limits OL - Outside Limits %R - %Recovery DF - Dilution Factor Amt - Amount (weight or volume)

01319927

right solutions.
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Form 4

Method Blank Summary

Dissolved Gasses by RSK-175

Workorder
HS23070546

Client
Aptim Environmental & Infrastucture, Inc.

Project
LHAAP 16 January 2023

07/27/2023

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Form 4 - Method Blank Summary

Client Aptim Environmental & Infrastucture, Inc.

Project LHAAP 16 January 2023

Workorder **HS23070546**

Dissolved Gasses by RSK-175

Client Sample ID	Type	Lab Sample ID	File ID	Date Analyzed	Run ID
METHOD BLANK	MBLK	MBLK-230713	039.D	07/13/23 16:16	FID-4_441466
LCS-230713	LCS	LCS-230713	040.D	07/13/23 16:33	FID-4_441466
LCSD-230713	LCSD	LCSD-230713	041.D	07/13/23 16:41	FID-4_441466
HS23070546-03MS	MS	HS23070546-03MS	043.D	07/13/23 16:59	FID-4_441466
HS23070546-03MSD	MSD	HS23070546-03MSD	045.D	07/13/23 17:25	FID-4_441466
16WW58-230711	SAMP	HS23070546-01	047.D	07/13/23 17:42	FID-4_441466
16WW57-230711	SAMP	HS23070546-02	048.D	07/13/23 17:50	FID-4_441466
16WW16-230711	SAMP	HS23070546-03	049.D	07/13/23 18:00	FID-4_441466
16WW16-230711	SAMP	HS23070546-03	050.D	07/13/23 18:12	FID-4_441466

01319929

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Form 6

Initial Calibration Data

Dissolved Gasses by RSK-175

Workorder
HS23070546

Client
Aptim Environmental & Infrastucture, Inc.

Project
LHAAP 16 January 2023

07/27/2023

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Initial Calibration Data

Client Aptim Environmental & Infrastucture, Inc.

Project LHAAP 16 January 2023

Workorder HS23070546

RunID FID-4_322102

Dissolved Gasses by RSK-175

ICAL Start Date 24-JAN-2017 0906
ICAL End Date 24-JAN-2017 1113

Calibration Files

Level 1 ..target\chem\fid-4.i\170124.b\001.d
Level 2 ..target\chem\fid-4.i\170124.b\002.d
Level 3 ..target\chem\fid-4.i\170124.b\003.d
Level 4 ..target\chem\fid-4.i\170124.b\004.d
Level 5 ..target\chem\fid-4.i\170124.b\005.d
Level 6 ..target\chem\fid-4.i\170124.b\006.d
Level 7 ..target\chem\fid-4.i\170124.b\007.d

Compound	10.00 Level 1	25.00 Level 2	50.00 Level 3	100.00 Level 4	250.00 Level 5	500.00 Level 6	1000.00 Level 7	Curve	b	m1	m2	%RSD or R2	Q
Methane	969 1082	978	1020	881	961	931		AVRG		974		6.55041	
Ethene	536 829	567	565	516	665	426		AVRG		586		21.93197	
Ethane	602 999	670	659	597	809	818		AVRG		736		19.88517	
Propane	500 96509	1279	2602	4785	18294	38286		QUAD	0.97987	0.00153	-4.583e-00	0.99914	
N-Butane	438 114164	936	2034	3864	18446	42817		QUAD	2.46870	0.00183	-5.537e-00	0.99808	
Pentane	115 488	3945	2080	950	501	412		AVRG		1213		112	*
Hexane	NE NE	NE	NE	NE	NE	NE		AVRG		0.000e+000		0.000e+000	

NE - Not Evaluated, AVRG - Averaged, LINR - Linear Regression, WLIN - Weighted Linear, QUAD - Quadratic, * - Curve Fit Outside Limits

01319931

right solutions.
right partner.

Form 6I

Initial Calibration Verification (ICV)

Dissolved Gasses by RSK-175

Workorder
HS23070546

Client
Aptim Environmental & Infrastucture, Inc.

Project
LHAAP 16 January 2023

07/27/2023

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Initial Calibration Verification (ICV)

Client Aptim Environmental & Infrastucture, Inc.

Project LHAAP 16 January 2023

Workorder HS23070546

RunID FID-4_322102

Dissolved Gasses by RSK-175

Sample Matrix LIQUID
Lab Smp Id ICV
Level LOW
Data Type GC DATA

Fraction GASES
Client Smp ID ICV
Operator MA
SampleType METHSPIKE

Compound	Conc Added	Conc Recovered	% Recovered	Limits	Q
Methane	9.647	9.597	99.49	75-125	
Ethene	16.800	19.090	113.63	75-125	
Ethane	18.043	19.657	108.95	75-125	
Propane	26.463	27.238	102.93	75-125	
N-Butane	34.955	36.010	103.02	75-125	

01319933

right solutions.
right partner.

Form 7

Continuing Calibration Verification (CCV)

Dissolved Gasses by RSK-175

Workorder
HS23070546

Client
Aptim Environmental & Infrastucture, Inc.

Project
LHAAP 16 January 2023

07/27/2023

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Continuing Calibration Verification (CCV)

Client Aptim Environmental & Infrastucture, Inc.
Project LHAAP 16 January 2023

Workorder HS23070546

RunID FID-4_441466

Dissolved Gasses by RSK-175

Instrument ID FID-4.I
Lab File ID 033.D
Analysis Type WATER
Lab Sample ID RSK-CCV

Injection Date :57
ICAL Date(s) 24-JAN-2017 24-JAN-2017
ICAL Times :06 11:13
Quant Type ESTD

Compound	$\overline{RRF}$ / Conc	RF250	CCV RRF250	Min RRF	%D/ %D / %DRIFT	Max %D / %DRIFT	Curve CURVE TYPE	Q
Methane	975	886	886	0.010	9.15133	20.0	Averaged	
Ethene	586	530	530	0.010	9.58518	20.0	Averaged	
Ethane	719	737	737	0.010	-2.40528	20.0	Averaged	

Continuing Calibration Verification (CCV)

Client Aptim Environmental & Infrastucture, Inc.

Project LHAAP 16 January 2023

Workorder HS23070546

RunID FID-4_441466

Dissolved Gasses by RSK-175

Instrument ID FID-4.I
Lab File ID 044.D
Analysis Type WATER
Lab Sample ID RSK-CCV

Injection Date :10
ICAL Date(s) 24-JAN-2017 24-JAN-2017
ICAL Times :06 11:13
Quant Type ESTD

Compound	$\overline{RRF}$ / Conc	RF250	CCV RRF250	Min RRF	%D/ %D / %DRIFT	Max %D / %DRIFT	Curve CURVE TYPE	Q
Methane	975	872	872	0.010	10.57599	20.0	Averaged	
Ethene	586	528	528	0.010	9.93979	20.0	Averaged	
Ethane	719	736	736	0.010	-2.35906	20.0	Averaged	

Continuing Calibration Verification (CCV)

Client Aptim Environmental & Infrastucture, Inc.
Project LHAAP 16 January 2023

Workorder HS23070546

RunID FID-4_441466

Dissolved Gasses by RSK-175

Instrument ID FID-4.I
Lab File ID 055.D
Analysis Type WATER
Lab Sample ID RSK-CCV

Injection Date :53
ICAL Date(s) 24-JAN-2017 24-JAN-2017
ICAL Times :06 11:13
Quant Type ESTD

Compound	$\overline{RRF}$ / Conc	RF250	CCV RRF250	Min RRF	%D/ %D / %DRIFT	Max %D / %DRIFT	Curve CURVE TYPE	Q
Methane	975	945	945	0.010	3.06994	20.0	Averaged	
Ethene	586	532	532	0.010	9.17991	20.0	Averaged	
Ethane	719	722	722	0.010	-0.41788	20.0	Averaged	

Continuing Calibration Verification (CCV)

Client Aptim Environmental & Infrastucture, Inc.
Project LHAAP 16 January 2023

Workorder HS23070546

RunID FID-4_441466

Dissolved Gasses by RSK-175

Instrument ID FID-4.I
Lab File ID 063.D
Analysis Type WATER
Lab Sample ID RSK-CCV

Injection Date :06
ICAL Date(s) 24-JAN-2017 24-JAN-2017
ICAL Times :06 11:13
Quant Type ESTD

Compound	$\overline{RRF}$ / Conc	RF250	CCV RRF250	Min RRF	%D/ %D / %DRIFT	Max %D / %DRIFT	Curve CURVE TYPE	Q
Methane	975	874	874	0.010	10.37398	20.0	Averaged	
Ethene	586	522	522	0.010	10.85164	20.0	Averaged	
Ethane	719	719	719	0.010	0.13675	20.0	Averaged	

01319938

right solutions.
right partner.

Analysis Run Log

Dissolved Gasses by RSK-175

Workorder
HS23070546

Client
Aptim Environmental & Infrastucture, Inc.

Project
LHAAP 16 January 2023

07/27/2023

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Form 13 - Analysis Run Log

Client Aptim Environmental & Infrastucture, Inc.

Workorder

Project LHAAP 16 January 2023

HS23070546

RunID

FID-4-322102

Dissolved Gasses by RSK-175

Run ID FID-4_322102 **Start Date** 01/24/17 **EndDate** 01/24/17

Inj. Time	Client Sample ID	Type	Lab Sample ID	File ID	Analysis Date	DF
09:06	ICAL1	ICAL1	ICAL1	001.D	01/24/17	1
09:30	ICAL2	ICAL2	ICAL2	002.D	01/24/17	1
09:59	ICAL3	ICAL3	ICAL3	003.D	01/24/17	1
10:15	ICAL4	ICAL4	ICAL4	004.D	01/24/17	1
10:39	ICAL5	ICAL5	ICAL5	005.D	01/24/17	1
10:57	ICAL6	ICAL6	ICAL6	006.D	01/24/17	1
11:13	ICAL7	ICAL7	ICAL7	007.D	01/24/17	1
12:05	ICV	ICV	ICV	008.D	01/24/17	1

Form 13 - Analysis Run Log

Client Aptim Environmental & Infrastucture, Inc.

Project LHAAP 16 January 2023

Workorder **HS23070546**

RunID FID-4-441466

Dissolved Gasses by RSK-175

Run ID FID-4_441466 **Start Date** 07/13/23 **EndDate** 07/13/23

Inj. Time	Client Sample ID	Type	Lab Sample ID	File ID	Analysis Date	DF
14:57	RSK-CCV	CCV	RSK-CCV	033.D	07/13/23	1
16:16	MBLK-230713	MBLK	MBLK-230713	039.D	07/13/23	1
16:33	LCS-230713	LCS	LCS-230713	040.D	07/13/23	1
16:41	LCSD-230713	LCSD	LCSD-230713	041.D	07/13/23	1
16:59	HS23070546-03MS	MS	HS23070546-03MS	043.D	07/13/23	1
17:10	RSK-CCV	CCV	RSK-CCV	044.D	07/13/23	1
17:25	HS23070546-03MSD	MSD	HS23070546-03MSD	045.D	07/13/23	1
17:42	HS23070546-01	SAMP	16WW58-230711	047.D	07/13/23	1
17:50	HS23070546-02	SAMP	16WW57-230711	048.D	07/13/23	1
18:00	HS23070546-03	SAMP	16WW16-230711	049.D	07/13/23	1
18:12	HS23070546-03	SAMP	16WW16-230711	050.D	07/13/23	50
18:20	HS23070658-01	SAMP	ZZZZZZZZZZ	051.D	07/13/23	1
18:28	HS23070658-02	SAMP	ZZZZZZZZZZ	052.D	07/13/23	1
18:36	HS23070658-03	SAMP	ZZZZZZZZZZ	053.D	07/13/23	1
18:45	HS23070658-04	SAMP	ZZZZZZZZZZ	054.D	07/13/23	1
18:53	RSK-CCV	CCV	RSK-CCV	055.D	07/13/23	1
19:02	HS23070658-05	SAMP	ZZZZZZZZZZ	056.D	07/13/23	1
19:10	HS23070658-06	SAMP	ZZZZZZZZZZ	057.D	07/13/23	1
19:19	HS23070658-01	SAMP	ZZZZZZZZZZ	058.D	07/13/23	50
19:31	HS23070658-03	SAMP	ZZZZZZZZZZ	059.D	07/13/23	5
19:40	HS23070658-04	SAMP	ZZZZZZZZZZ	060.D	07/13/23	5
19:48	HS23070658-05	SAMP	ZZZZZZZZZZ	061.D	07/13/23	100
19:58	HS23070658-06	SAMP	ZZZZZZZZZZ	062.D	07/13/23	10
20:06	RSK-CCV	CCV	RSK-CCV	063.D	07/13/23	1

01319941

right solutions.
right partner.

Raw Data FID 4 322102

Dissolved Gasses by RSK-175

Workorder
HS23070546

Client
Aptim Environmental & Infrastucture, Inc.

Project
LHAAP 16 January 2023

07/27/2023

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Data File: \\NAHSTWS005\Target\chem\FID-4.i\170124.b\001.D Page 1
Report Date: 28-Sep-2022 10:00

ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\NAHSTWS005\Target\chem\FID-4.i\170124.b\001.D
Lab Smp Id: ICAL1 Client Smp ID: ICAL1
Inj Date : 24-JAN-2017 09:06
Operator : JA Inst ID: FID-4.i
Smp Info : ICAL1;ICAL1;;;
Misc Info :
Comment :
Method : \\NAHSTWS005\Target\chem\FID-4.i\170124.b\RSKNI2.m
Meth Date : 28-Sep-2022 10:00 FID-4.i Quant Type: ESTD
Cal Date : 24-JAN-2017 11:13 Cal File: 007.D
Als bottle: 1 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: stdNIP2.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Methane	1.043	1.043	0.000	374	0.38600	0.383(a)
2 Ethene	1.553	1.553	0.000	361	0.67400	0.615(a)
3 Ethane	1.716	1.716	0.000	435	0.72200	0.590(a)
4 Propane	4.073	4.073	0.000	500	1.05900	1.743
5 N-Butane	7.640	7.640	0.000	438	1.39800	3.271

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

01319943

Data File: \\NAHSTWS005\Target\chem\FID-4.i\170124.b\001.D

Date : 24-JAN-2017 09:06

Client ID: ICAL1

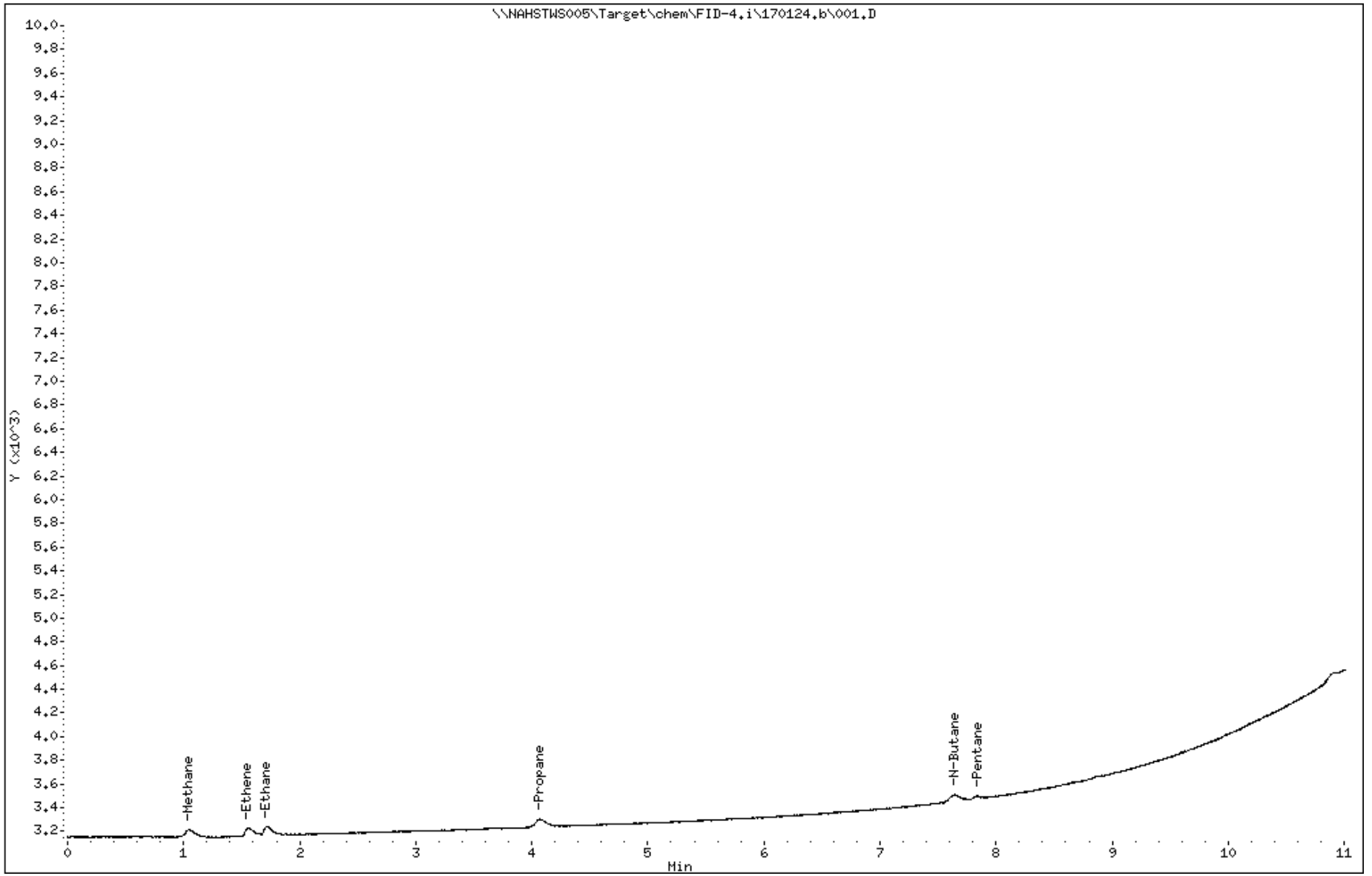
Instrument: FID-4.i

Sample Info: ICAL1;ICAL1;;;

Operator: JA

Column phase: Rtx-PLOT

Column diameter: 0.53



Data File : \\NAHSTWS005\Target\chem\FID-4.i\170124.b\001.D
Inj Date : 24-JAN-2017 09:06
InstruID : FID-4.i
LabSampID : ICAL1

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\FID-4.i\170124.b\002.D Page 1
Report Date: 28-Sep-2022 10:00

ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\NAHSTWS005\Target\chem\FID-4.i\170124.b\002.D
Lab Smp Id: ICAL2 Client Smp ID: ICAL2
Inj Date : 24-JAN-2017 09:30
Operator : MA Inst ID: FID-4.i
Smp Info : ICAL2;ICAL2;;;
Misc Info : ;1;0;1
Comment :
Method : \\NAHSTWS005\Target\chem\FID-4.i\170124.b\RSKNI2.m
Meth Date : 28-Sep-2022 10:00 FID-4.i Quant Type: ESTD
Cal Date : 24-JAN-2017 09:06 Cal File: 001.D
Als bottle: 2 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: stdNIP2.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Methane	1.023	1.023	0.000	944	0.96500	0.968
2 Ethene	1.560	1.560	0.000	956	1.68500	1.630
3 Ethane	1.723	1.723	0.000	1209	1.80400	1.641
4 Propane	4.123	4.123	0.000	1279	2.64600	2.927
5 N-Butane	7.716	7.716	0.000	936	3.49600	4.180

01319946

Data File: \\NAHSTWS005\Target\chem\FID-4.i\170124.b\002.D

Date : 24-JAN-2017 09:30

Client ID: ICAL2

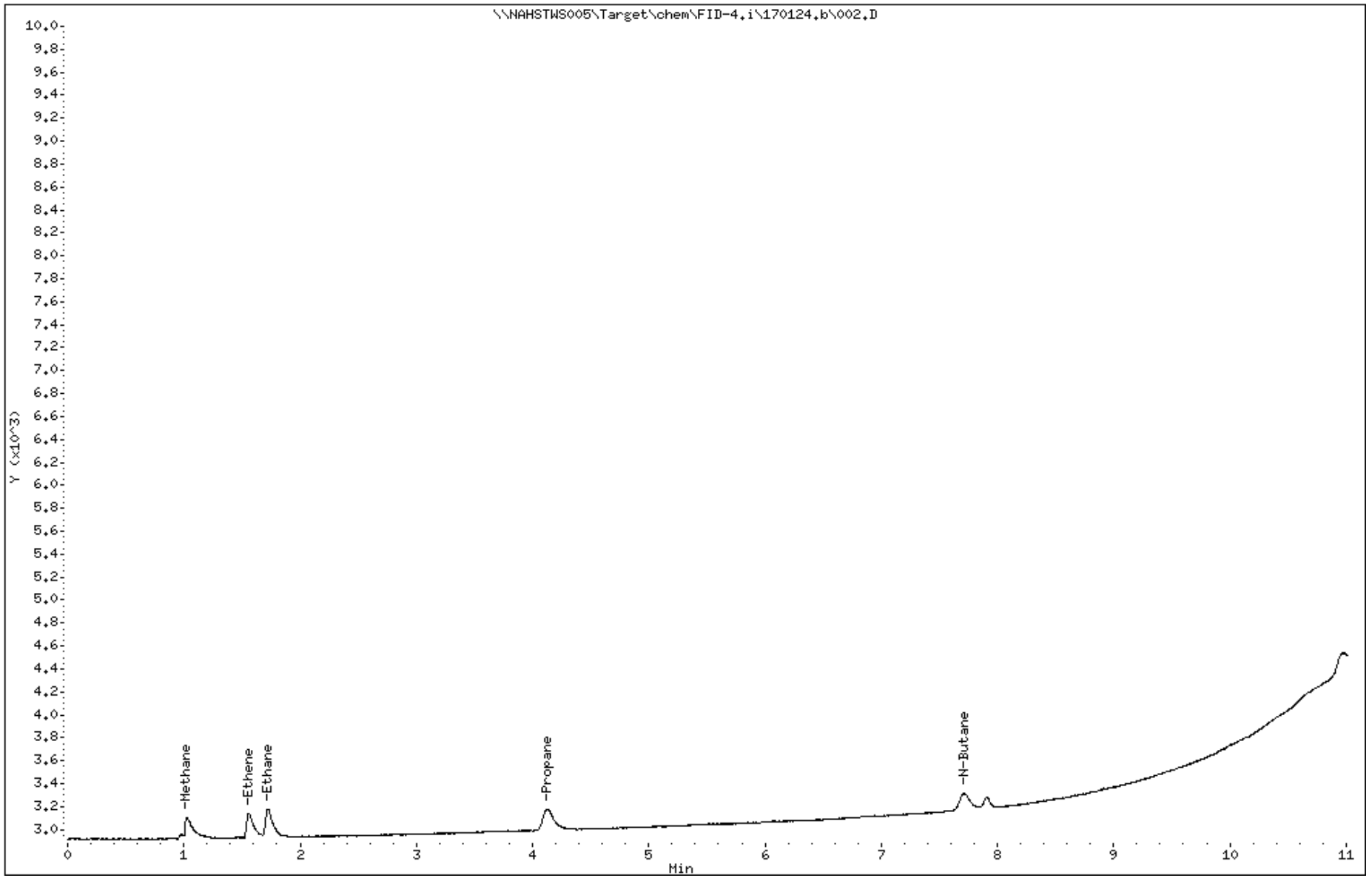
Instrument: FID-4.i

Sample Info: ICAL2;ICAL2;;;

Operator: MA

Column phase: Rtx-PLOT

Column diameter: 0.53



Data File : \\NAHSTWS005\Target\chem\FID-4.i\170124.b\002.D
Inj Date : 24-JAN-2017 09:30
InstruID : FID-4.i
LabSampID : ICAL2

NO MANUAL INTEGRATIONS

ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\NAHSTWS005\Target\chem\FID-4.i\170124.b\003.D
Lab Smp Id: ICAL3 Client Smp ID: ICAL3
Inj Date : 24-JAN-2017 09:59
Operator : MA Inst ID: FID-4.i
Smp Info : ICAL3;ICAL3;;;
Misc Info : ;1;0;1
Comment :
Method : \\NAHSTWS005\Target\chem\FID-4.i\170124.b\RSKNI2.m
Meth Date : 28-Sep-2022 10:00 FID-4.i Quant Type: ESTD
Cal Date : 24-JAN-2017 09:30 Cal File: 002.D
Als bottle: 3 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: stdNIP2.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Methane	1.043	1.043	0.000	1967	1.92900	2.018
2 Ethene	1.570	1.570	0.000	1904	3.37000	3.247
3 Ethane	1.736	1.736	0.000	2378	3.60900	3.229
4 Propane	4.123	4.123	0.000	2602	5.29300	4.926
5 N-Butane	7.703	7.703	0.000	2034	6.99100	6.176

01319949

Data File: \\NAHSTWS005\Target\chem\FID-4.i\170124.b\003.D

Date : 24-JAN-2017 09:59

Client ID: ICAL3

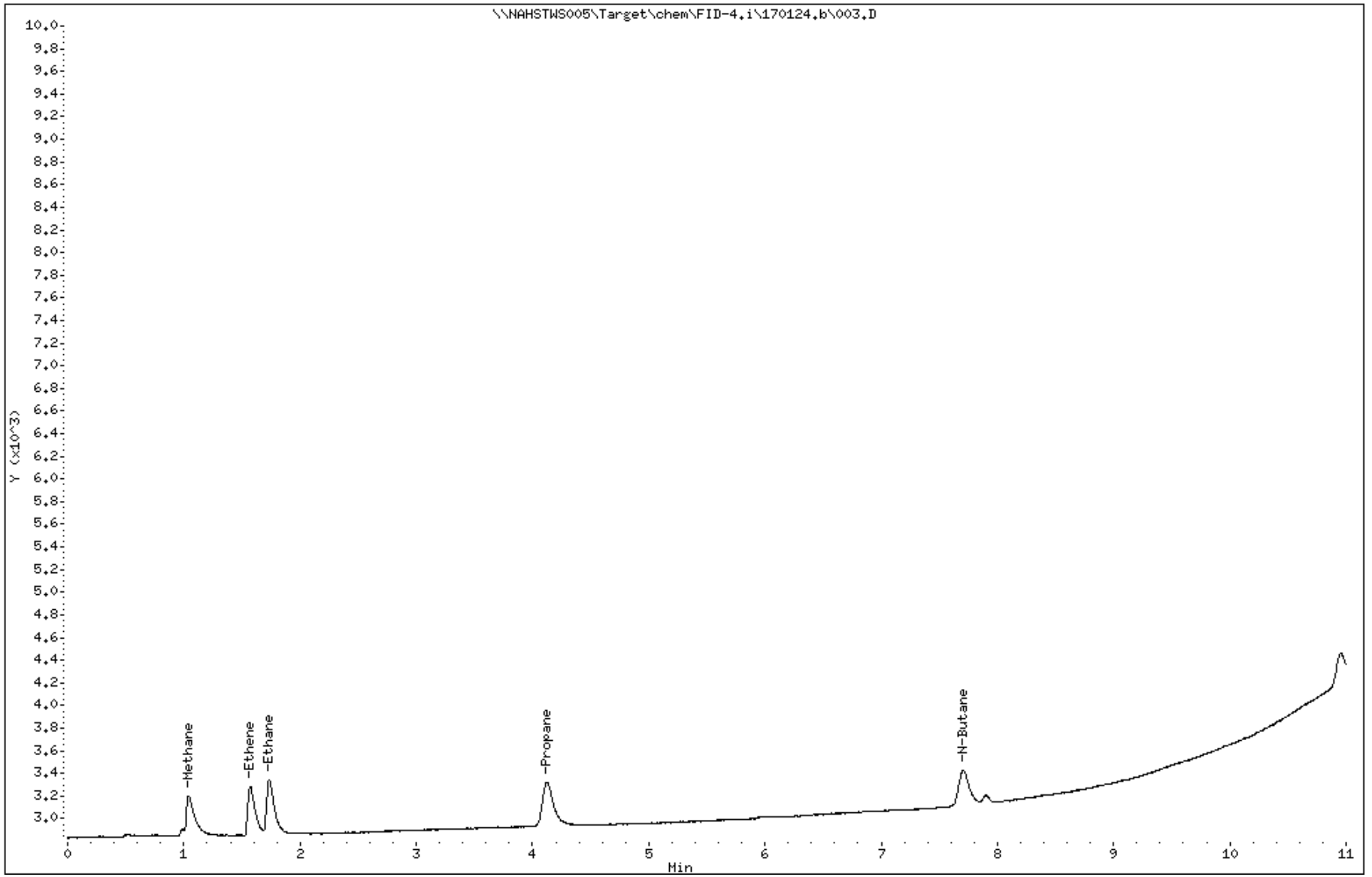
Instrument: FID-4.i

Sample Info: ICAL3;ICAL3;;;

Operator: MA

Column phase: Rtx-PLOT

Column diameter: 0.53



Data File : \\NAHSTWS005\Target\chem\FID-4.i\170124.b\003.D
Inj Date : 24-JAN-2017 09:59
InstruID : FID-4.i
LabSampID : ICAL3

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\FID-4.i\170124.b\004.D Page 1
Report Date: 28-Sep-2022 10:02

ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\NAHSTWS005\Target\chem\FID-4.i\170124.b\004.D
Lab Smp Id: ICAL4 Client Smp ID: ICAL4
Inj Date : 24-JAN-2017 10:15
Operator : MA Inst ID: FID-4.i
Smp Info : ICAL4;ICAL4;;;
Misc Info : ;1;0;1
Comment :
Method : \\NAHSTWS005\Target\chem\FID-4.i\170124.b\RSKNI2.m
Meth Date : 28-Sep-2022 10:02 FID-4.i Quant Type: ESTD
Cal Date : 24-JAN-2017 11:13 Cal File: 007.D
Als bottle: 4 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: stdNIP2.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
1 Methane	1.033	1.033	0.000	3399	3.85900	3.488
2 Ethene	1.563	1.563	0.000	3478	6.74000	5.932
3 Ethane	1.726	1.726	0.000	4310	7.21700	5.853
4 Propane	4.120	4.120	0.000	4785	10.5850	8.190
5 N-Butane	7.703	7.703	0.000	3864	13.9820	9.473(M)

QC Flag Legend

M - Compound response manually integrated.

01319952

Data File: \\NAHSTWS005\Target\chem\FID-4.i\170124.b\004.D

Date : 24-JAN-2017 10:15

Client ID: ICAL4

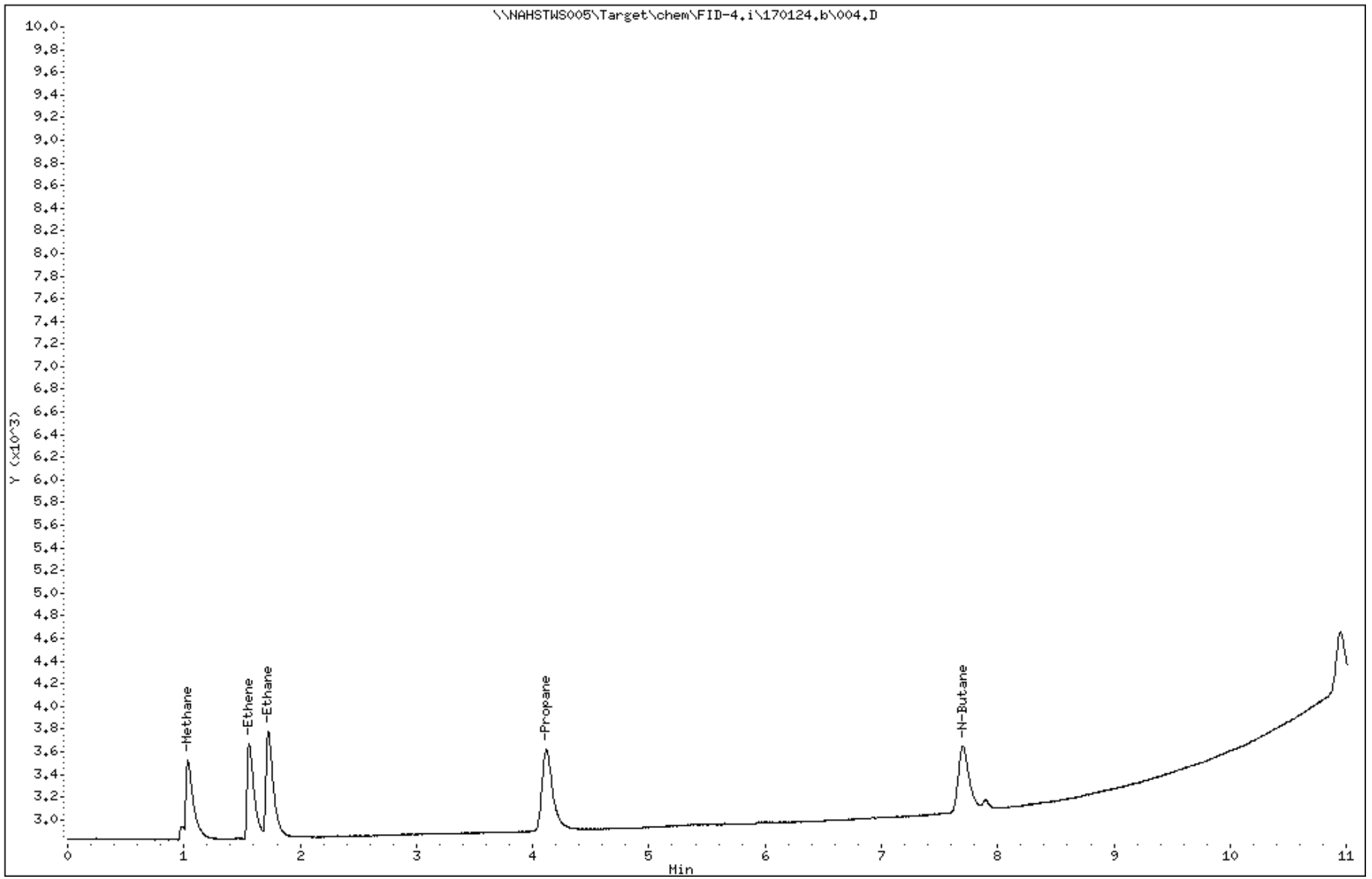
Instrument: FID-4.i

Sample Info: ICAL4;ICAL4;;;

Operator: MA

Column phase: Rtx-PLOT

Column diameter: 0.53



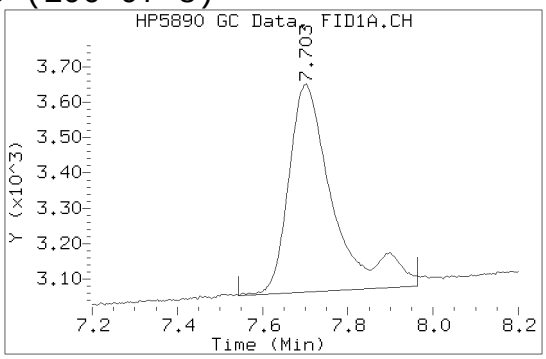
Data File : \\NAHSTWS005\Target\chem\FID-4.i\170124.b\004.D
Inj Date : 24-JAN-2017 10:15
InstruID : FID-4.i
LabSampID : ICAL4

N-Butane (106-97-8)

Reason Code:

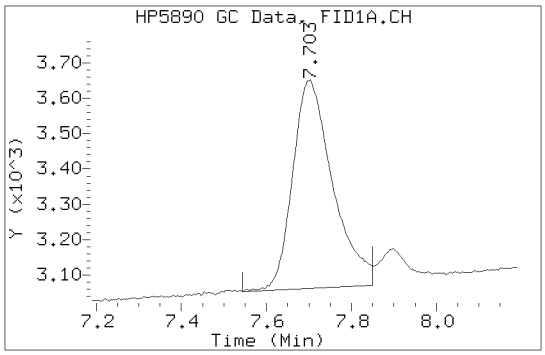
BEFORE

MASS
100
AREA
4292
HEIGHT
591
28-Sep-2022
10:02
linh
pham



AFTER

MASS
100
AREA
3864
HEIGHT
591
28-Sep-2022
10:02
linh
pham



Data File: \\NAHSTWS005\Target\chem\FID-4.i\170124.b\005.D Page 1
Report Date: 28-Sep-2022 10:02

ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\NAHSTWS005\Target\chem\FID-4.i\170124.b\005.D
Lab Smp Id: ICAL5 Client Smp ID: ICAL5
Inj Date : 24-JAN-2017 10:39
Operator : MA Inst ID: FID-4.i
Smp Info : ICAL5;ICAL5;;;
Misc Info : ;1;0;1
Comment :
Method : \\NAHSTWS005\Target\chem\FID-4.i\170124.b\RSKNI2.m
Meth Date : 28-Sep-2022 10:02 FID-4.i Quant Type: ESTD
Cal Date : 24-JAN-2017 10:15 Cal File: 004.D
Als bottle: 5 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: stdNIP2.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Methane	1.043	1.043	0.000	9268	9.64700	9.511
2 Ethene	1.570	1.570	0.000	11210	16.8500	19.121
3 Ethane	1.733	1.733	0.000	14588	18.0430	19.811
4 Propane	4.120	4.120	0.000	18294	26.4630	27.415
5 N-Butane	7.700	7.700	0.000	18446	34.9550	34.419(M)

QC Flag Legend

M - Compound response manually integrated.

01319955

Data File: \\NAHSTWS005\Target\chem\FID-4.i\170124.b\005.D

Date : 24-JAN-2017 10:39

Client ID: ICAL5

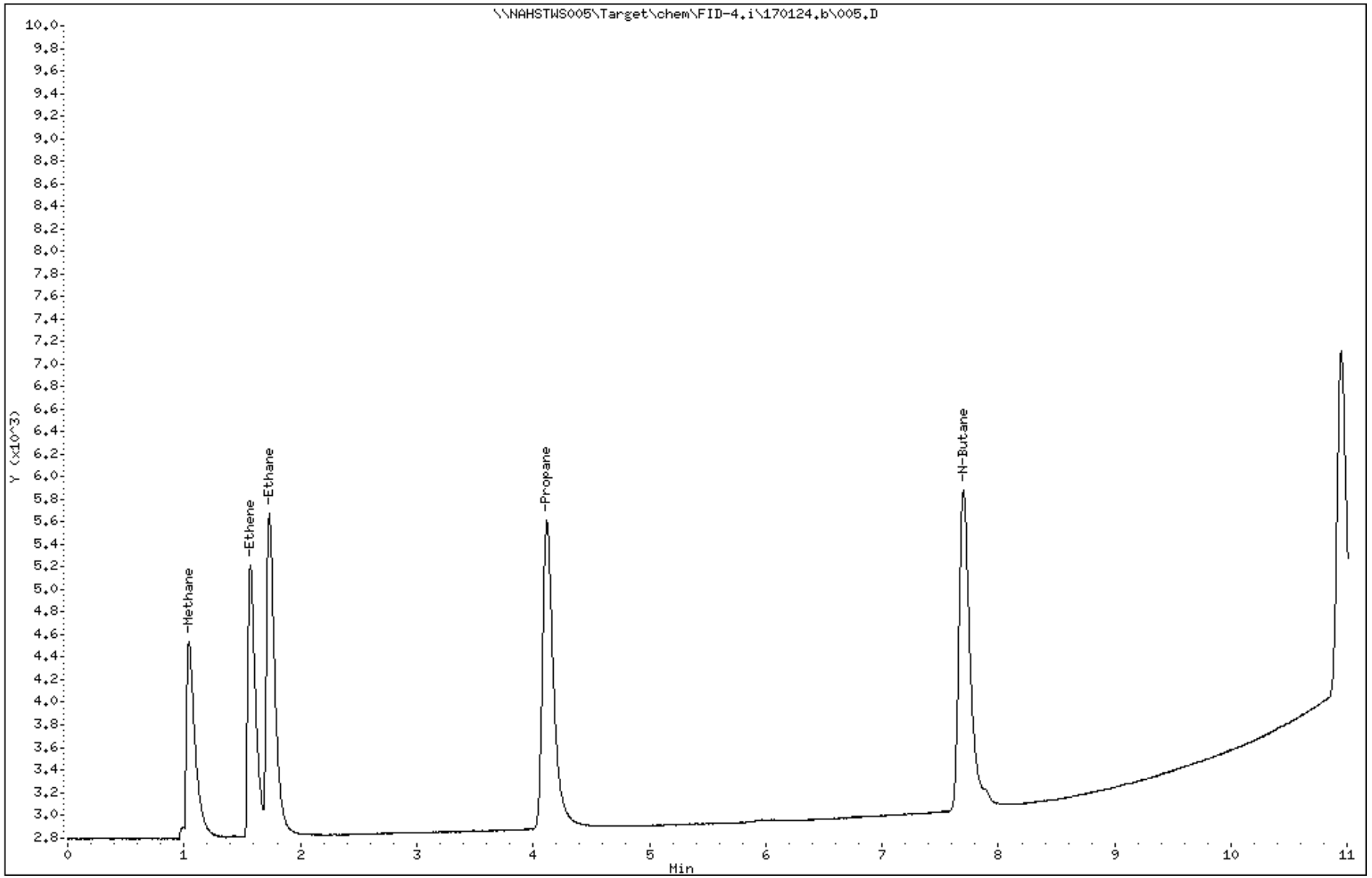
Instrument: FID-4.i

Sample Info: ICAL5;ICAL5;;;

Operator: MA

Column phase: Rtx-PLOT

Column diameter: 0.53



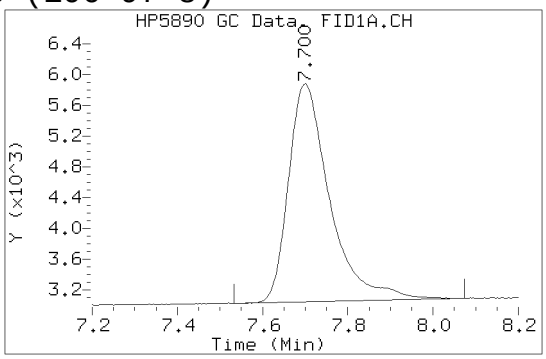
Data File : \\NAHSTWS005\Target\chem\FID-4.i\170124.b\005.D
Inj Date : 24-JAN-2017 10:39
InstruID : FID-4.i
LabSampID : ICAL5

N-Butane (106-97-8)

Reason Code:

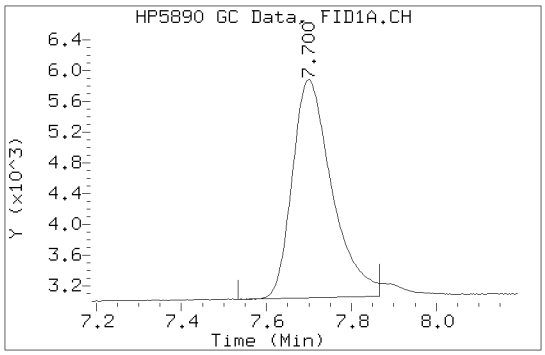
BEFORE

MASS
100
AREA
19142
HEIGHT
2839
28-Sep-2022
10:02
linh
pham



AFTER

MASS
100
AREA
18446
HEIGHT
2838
28-Sep-2022
10:02
linh
pham



ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\NAHSTWS005\Target\chem\FID-4.i\170124.b\006.D
Lab Smp Id: ICAL6 Client Smp ID: ICAL6
Inj Date : 24-JAN-2017 10:57
Operator : MA Inst ID: FID-4.i
Smp Info : ICAL6;ICAL6;;;
Misc Info : ;1;0;1
Comment :
Method : \\NAHSTWS005\Target\chem\FID-4.i\170124.b\RSKNI2.m
Meth Date : 28-Sep-2022 10:00 FID-4.i Quant Type: ESTD
Cal Date : 24-JAN-2017 10:39 Cal File: 005.D
Als bottle: 6 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: stdNIP2.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Methane	1.023	1.023	0.000	17957	19.2940	18.429
2 Ethene	1.550	1.550	0.000	22910	53.8200	39.078
3 Ethane	1.716	1.716	0.000	29505	36.0860	40.070
4 Propane	4.110	4.110	0.000	38286	52.9260	52.796
5 N-Butane	7.696	7.696	0.000	42817	69.9110	70.855

01319958

Data File: \\NAHSTWS005\Target\chem\FID-4.i\170124.b\006.D

Page 1

Date : 24-JAN-2017 10:57

Client ID: ICAL6

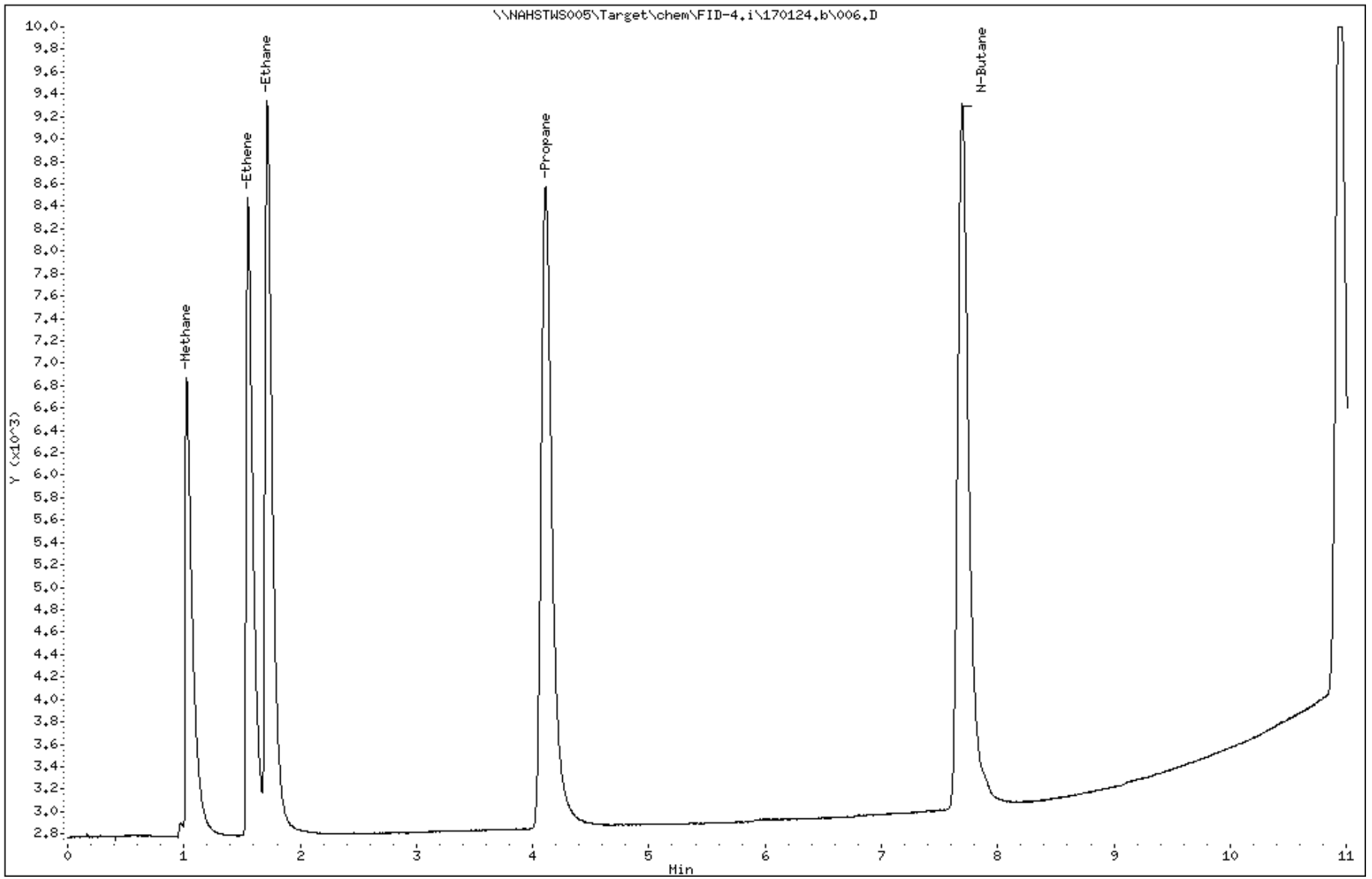
Instrument: FID-4.i

Sample Info: ICAL6;ICAL6;;;

Operator: MA

Column phase: Rtx-PLOT

Column diameter: 0.53



Data File : \\NAHSTWS005\Target\chem\FID-4.i\170124.b\006.D
Inj Date : 24-JAN-2017 10:57
InstruID : FID-4.i
LabSampID : ICAL6

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\FID-4.i\170124.b\007.D Page 1
Report Date: 28-Sep-2022 10:00

ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\NAHSTWS005\Target\chem\FID-4.i\170124.b\007.D
Lab Smp Id: ICAL7 Client Smp ID: ICAL7
Inj Date : 24-JAN-2017 11:13
Operator : MA Inst ID: FID-4.i
Smp Info : ICAL7;ICAL7;;;
Misc Info : ;1;0;1
Comment :
Method : \\NAHSTWS005\Target\chem\FID-4.i\170124.b\RSKNI2.m
Meth Date : 28-Sep-2022 10:00 FID-4.i Quant Type: ESTD
Cal Date : 24-JAN-2017 10:57 Cal File: 006.D
Als bottle: 7 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: stdNIP2.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Methane	1.030	1.030	0.000	41736	38.5880	42.833(A)
2 Ethene	1.556	1.556	0.000	55865	67.4000	95.291(A)
3 Ethane	1.723	1.723	0.000	72124	72.1720	97.951(A)
4 Propane	4.113	4.113	0.000	96509	105.852	105.844
5 N-Butane	7.690	7.690	0.000	114164	139.821	139.707

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

01319961

Data File: \\NAHSTWS005\Target\chem\FID-4.i\170124.b\007.D

Date : 24-JAN-2017 11:13

Client ID: ICAL7

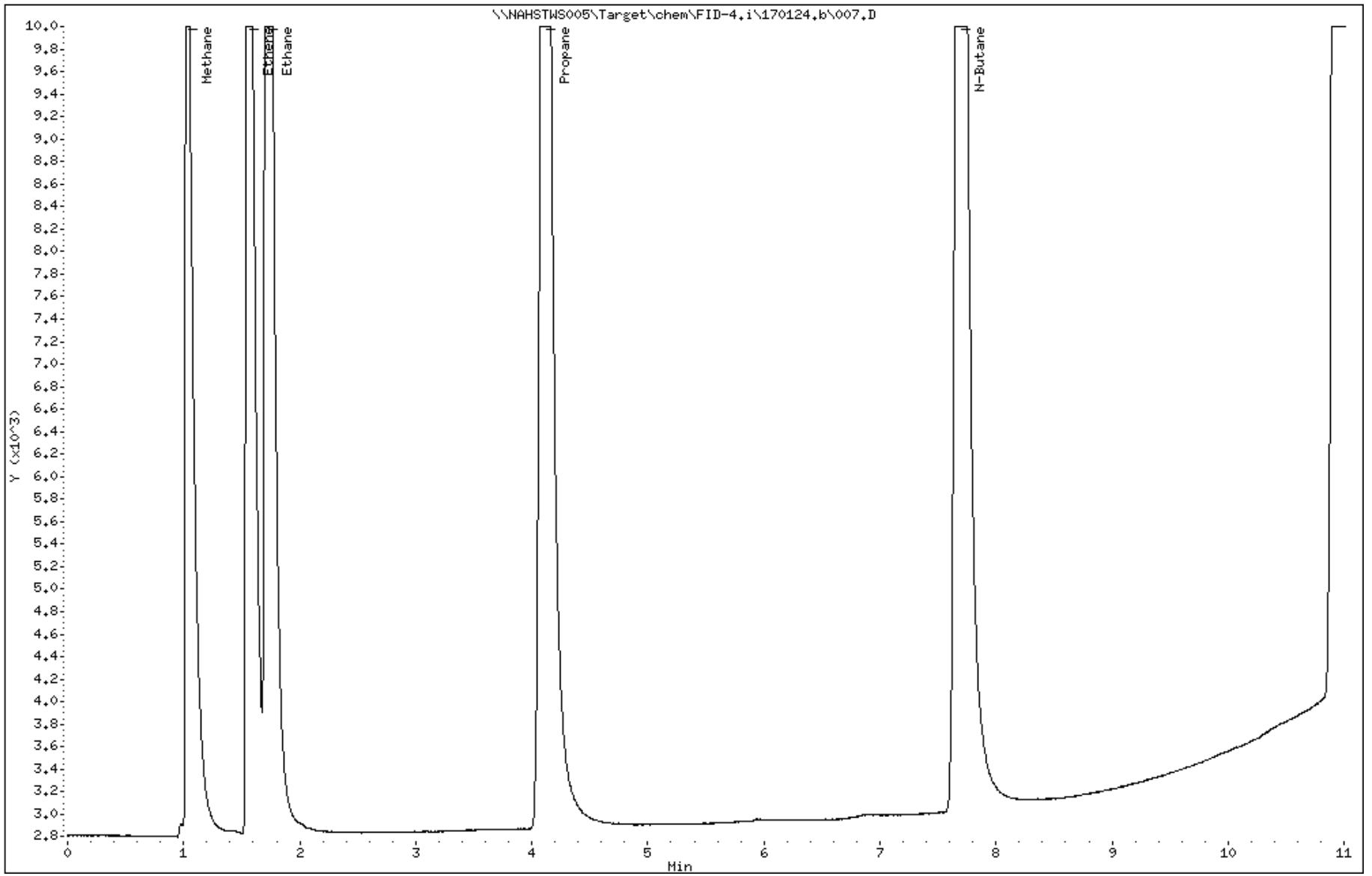
Instrument: FID-4.i

Sample Info: ICAL7;ICAL7;;;

Operator: MA

Column phase: Rtx-PLOT

Column diameter: 0.53



Data File : \\NAHSTWS005\Target\chem\FID-4.i\170124.b\007.D
Inj Date : 24-JAN-2017 11:13
InstruID : FID-4.i
LabSampID : ICAL7

NO MANUAL INTEGRATIONS

ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\NAHSTWS005\Target\chem\FID-4.i\170124.b\008.D
Lab Smp Id: ICV Client Smp ID: ICV
Inj Date : 24-JAN-2017 12:05
Operator : MA Inst ID: FID-4.i
Smp Info : ICV;ICV;;;
Misc Info : ;1;0;1
Comment :
Method : \\NAHSTWS005\Target\chem\FID-4.i\170124.b\RSKNI2.m
Meth Date : 28-Sep-2022 10:00 FID-4.i Quant Type: ESTD
Cal Date : 24-JAN-2017 11:13 Cal File: 007.D
Als bottle: 8 QC Sample: METHSPIKE
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: stdNIP2.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
1 Methane	1.046	1.030	0.016	9352	9.59792	9.597
2 Ethene	1.573	1.556	0.017	11192	19.0906	19.090
3 Ethane	1.736	1.723	0.013	14474	19.6571	19.657
4 Propane	4.116	4.113	0.003	18164	27.2381	27.238
5 N-Butane	7.696	7.690	0.006	19425	36.0103	36.010

01319964

Data File: \\NAHSTWS005\Target\chem\FID-4.i\170124.b\008.D

Date : 24-JAN-2017 12:05

Client ID: ICV

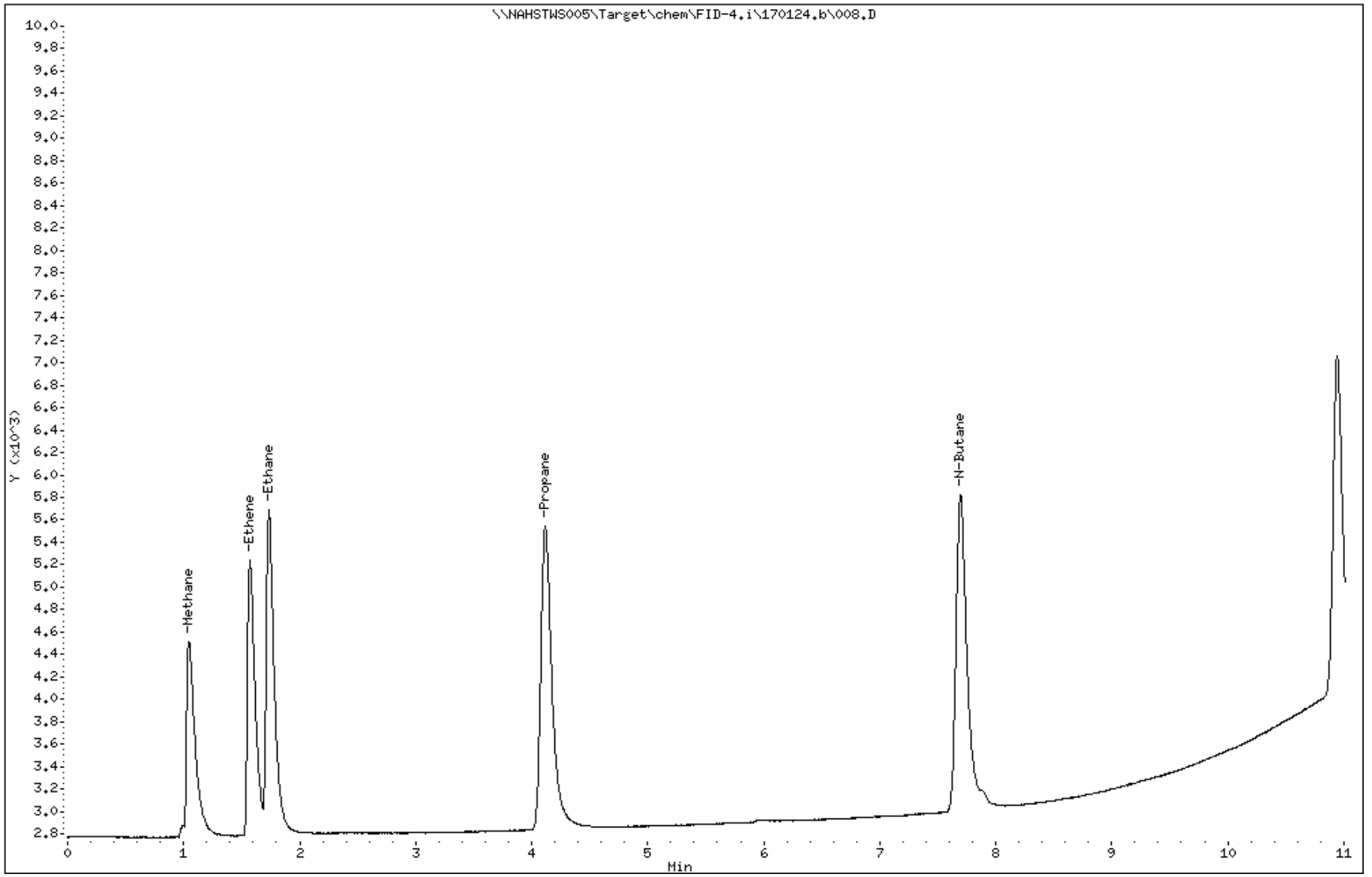
Instrument: FID-4.i

Sample Info: ICV;ICV;;;

Operator: MA

Column phase: Rtx-PLOT

Column diameter: 0.53



Data File : \\NAHSTWS005\Target\chem\FID-4.i\170124.b\008.D
Inj Date : 24-JAN-2017 12:05
InstruID : FID-4.i
LabSampID : ICV

NO MANUAL INTEGRATIONS

01319966

right solutions.
right partner.

Raw Data FID 4 441466

Dissolved Gasses by RSK-175

Workorder
HS23070546

Client
Aptim Environmental & Infrastucture, Inc.

Project
LHAAP 16 January 2023

07/27/2023

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\nahstws005\Target\chem\FID-4.i\230713.b\033.D
Lab Smp Id: RSK-CCV Client Smp ID: RSK-CCV
Inj Date : 13-JUL-2023 14:57
Operator : PL Inst ID: FID-4.i
Smp Info : RSK-CCV;RSK-CCV;2;4
Misc Info : ;1;0;1
Comment :
Method : \\nahstws005\Target\chem\FID-4.i\230713.b\RSKNI3.m
Meth Date : 13-Jul-2023 15:16 samy.mata Quant Type: ESTD
Cal Date : 24-JAN-2017 10:15 Cal File: 004.D
Als bottle: 33 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: RSK175.sub
Target Version: 4.14
Processing Host: NAHSTW7022

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Methane	0.430	0.430	0.000	8545	9.64700	8.764
2 Ethene	0.643	0.643	0.000	8924	16.8500	15.234
3 Ethane	0.710	0.710	0.000	13294	18.0430	18.476

01319968

Data File: \\nahstws005\Target\chem\FID-4.i\230713.b\033.D

Page 1

Date : 13-JUL-2023 14:57

Client ID: RSK-CCV

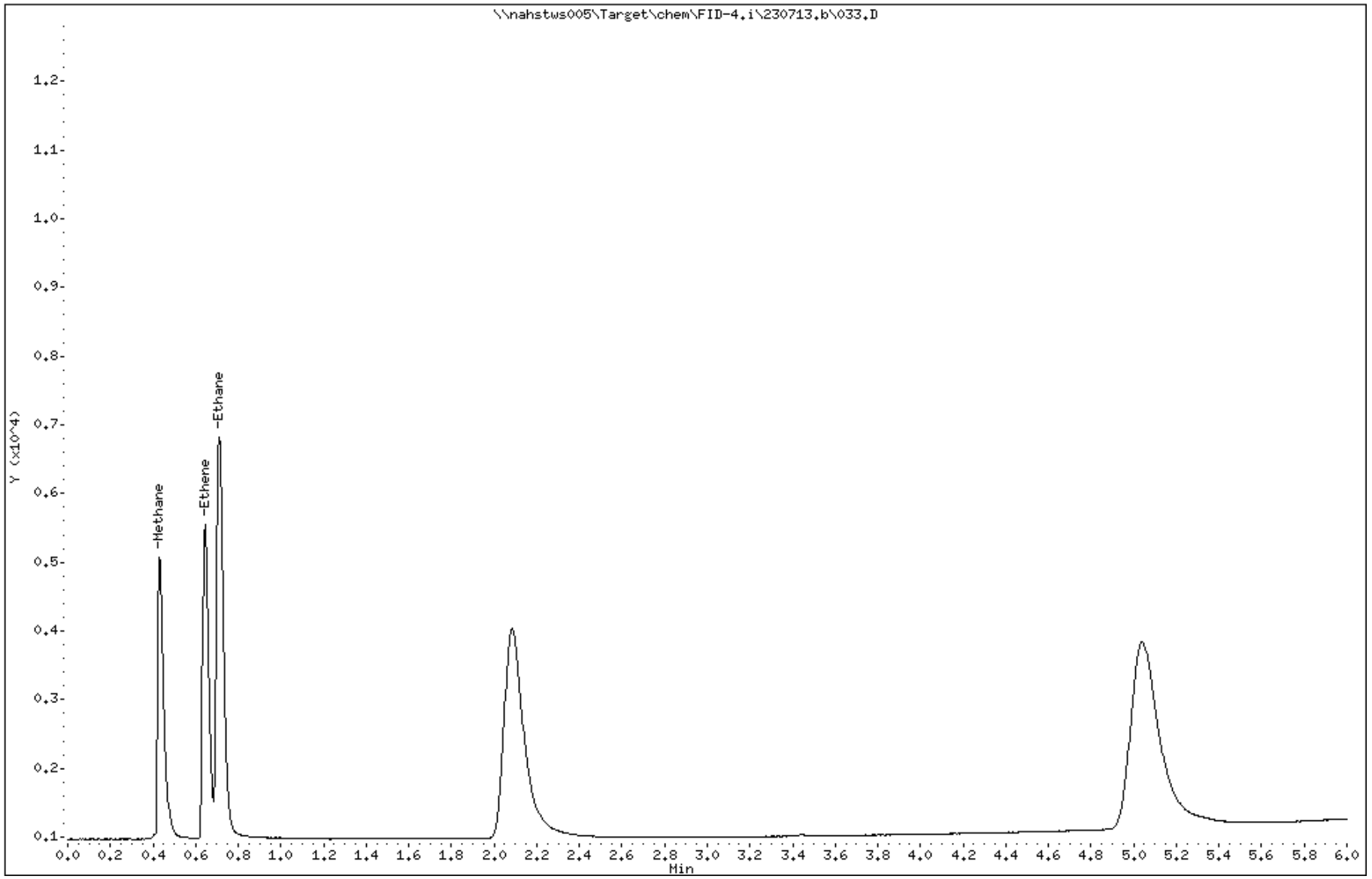
Instrument: FID-4.i

Sample Info: RSK-CCV;RSK-CCV;2;4

Operator: PL

Column phase: Rtx-PLOT

Column diameter: 0.53



Data File : \\nahstws005\Target\chem\FID-4.i\230713.b\033.D
Inj Date : 13-JUL-2023 14:57
InstruID : FID-4.i
LabSampID : RSK-CCV

NO MANUAL INTEGRATIONS

ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\nahstws005\Target\chem\FID-4.i\230713.b\039.D
Lab Smp Id: MBLK-230713 Client Smp ID: MBLK-230713
Inj Date : 13-JUL-2023 16:16
Operator : PL Inst ID: FID-4.i
Smp Info : MBLK-230713;MBLK-230713;3;;BLANK
Misc Info : ;1;0;1
Comment :
Method : \\nahstws005\Target\chem\FID-4.i\230713.b\RSKNI3.m
Meth Date : 13-Jul-2023 15:16 samy.mata Quant Type: ESTD
Cal Date : 24-JAN-2017 10:15 Cal File: 004.D
Als bottle: 39 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: RSK175.sub
Target Version: 4.14
Processing Host: NAHSTW7022

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)

01319971

Data File: \\nahstws005\Target\chem\FID-4.i\230713.b\039.D

Page 1

Date : 13-JUL-2023 16:16

Client ID: MBLK-230713

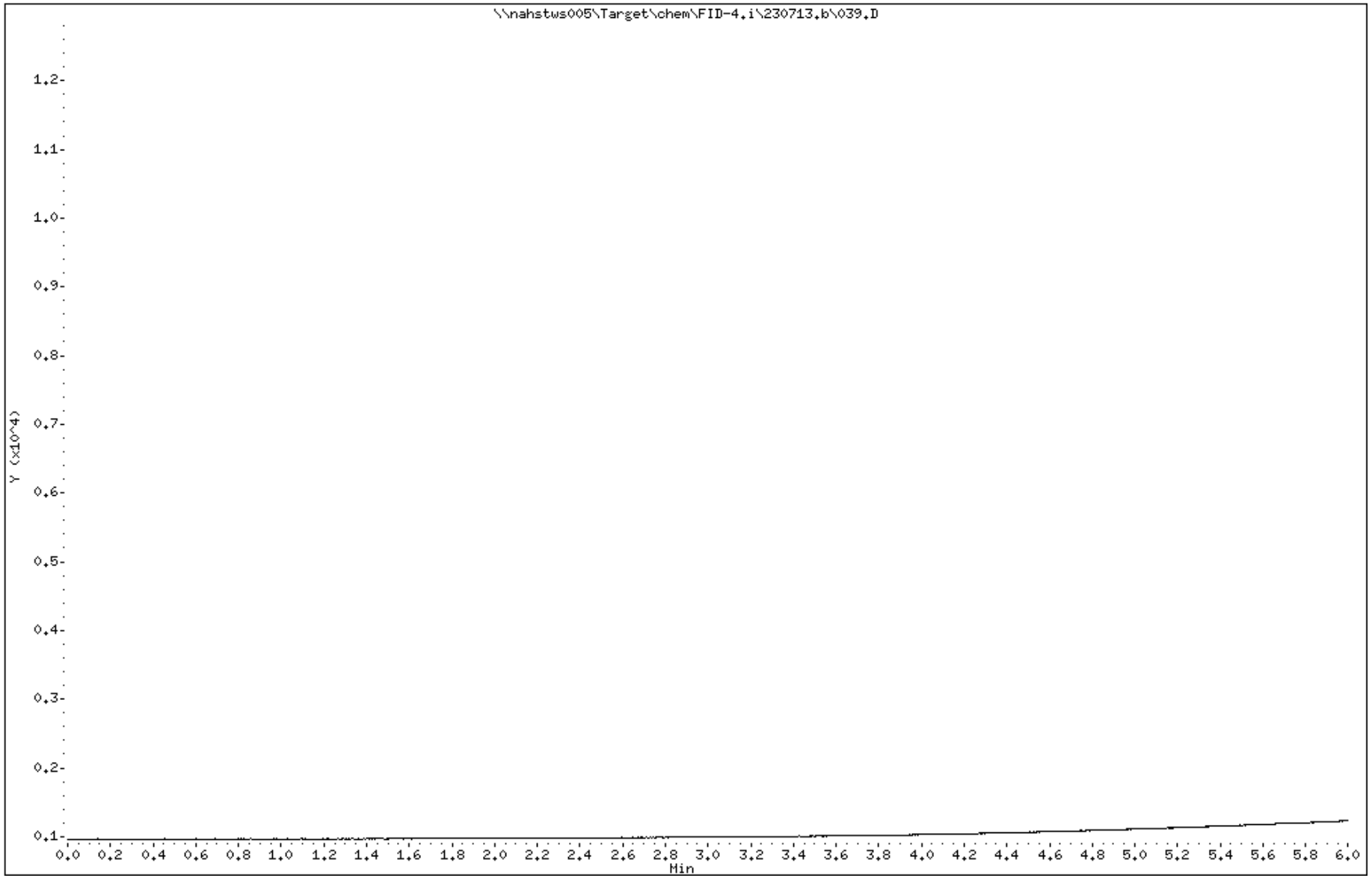
Instrument: FID-4.i

Sample Info: MBLK-230713;MBLK-230713;3;;BLANK

Operator: PL

Column phase: Rtx-PLOT

Column diameter: 0.53



Data File : \\nahstws005\Target\chem\FID-4.i\230713.b\039.D
Inj Date : 13-JUL-2023 16:16
InstruID : FID-4.i
LabSampID : MBLK-230713

NO MANUAL INTEGRATIONS

ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\nahstws005\Target\chem\FID-4.i\230713.b\040.D
Lab Smp Id: LCS-230713 Client Smp ID: LCS-230713
Inj Date : 13-JUL-2023 16:33
Operator : PL Inst ID: FID-4.i
Smp Info : LCS-230713;LCS-230713;3;;LCS
Misc Info : ;1;0;1
Comment :
Method : \\nahstws005\Target\chem\FID-4.i\230713.b\RSKNI3.m
Meth Date : 13-Jul-2023 15:16 samy.mata Quant Type: ESTD
Cal Date : 24-JAN-2017 10:15 Cal File: 004.D
Als bottle: 40 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: RSK175.sub
Target Version: 4.14
Processing Host: NAHSTW7022

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
1 Methane	0.430	0.430	0.000	8525	8.74366	8.743
2 Ethene	0.643	0.643	0.000	9043	15.4381	15.438
3 Ethane	0.710	0.710	0.000	13491	18.7508	18.750

01319974

Data File: \\nahstws005\target\chem\fid-4.i\230713.b\040.d

Page 1

Date : 13-JUL-2023 16:33

Client ID: LCS-230713

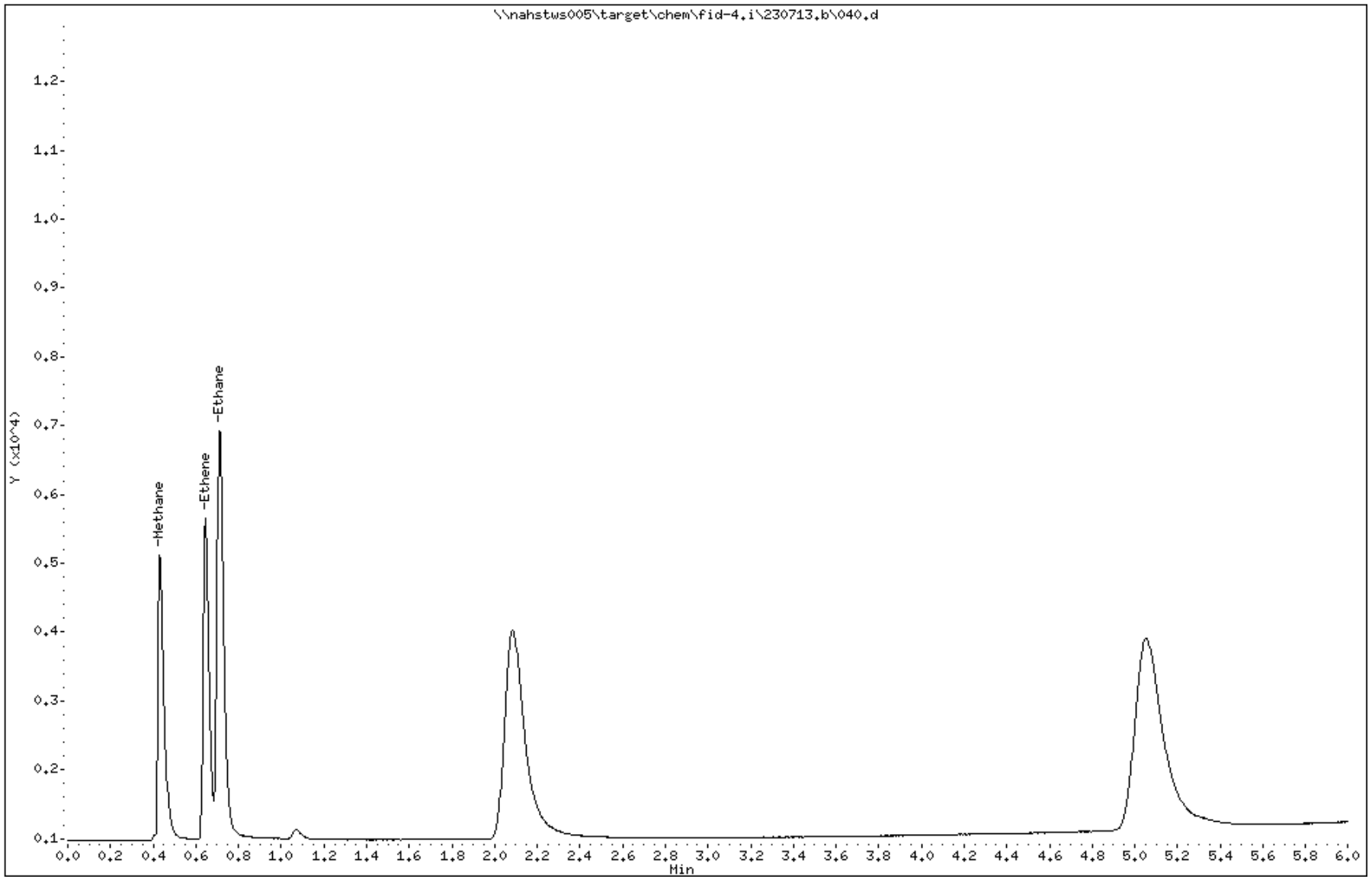
Instrument: FID-4.i

Sample Info: LCS-230713;LCS-230713;3;;LCS

Operator: PL

Column phase: Rtx-PLOT

Column diameter: 0.53



Data File : \\nahstws005\target\chem\fid-4.i\230713.b\040.d
Inj Date : 13-JUL-2023 16:33
InstruID : FID-4.i
LabSampID : LCS-230713

NO MANUAL INTEGRATIONS

ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\nahstws005\Target\chem\FID-4.i\230713.b\041.D
Lab Smp Id: LCSD-230713 Client Smp ID: LCSD-230713
Inj Date : 13-JUL-2023 16:41
Operator : PL Inst ID: FID-4.i
Smp Info : LCSD-230713;LCSD-230713;3;;LCSD
Misc Info : ;1;0;1
Comment :
Method : \\nahstws005\Target\chem\FID-4.i\230713.b\RSKNI3.m
Meth Date : 13-Jul-2023 15:16 samy.mata Quant Type: ESTD
Cal Date : 24-JAN-2017 10:15 Cal File: 004.D
Als bottle: 41 QC Sample: LCSD
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: RSK175.sub
Target Version: 4.14
Processing Host: NAHSTW7022

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
1 Methane	0.426	0.430	-0.004	8548	8.76725	8.767
2 Ethene	0.643	0.643	0.000	8880	15.1598	15.159(M)
3 Ethane	0.713	0.710	0.003	13024	18.1017	18.101(M)

QC Flag Legend

M - Compound response manually integrated.

01319977

Data File: \\nahstws005\Target\chem\FID-4.i\230713.b\041.D

Date : 13-JUL-2023 16:41

Client ID: LCSD-230713

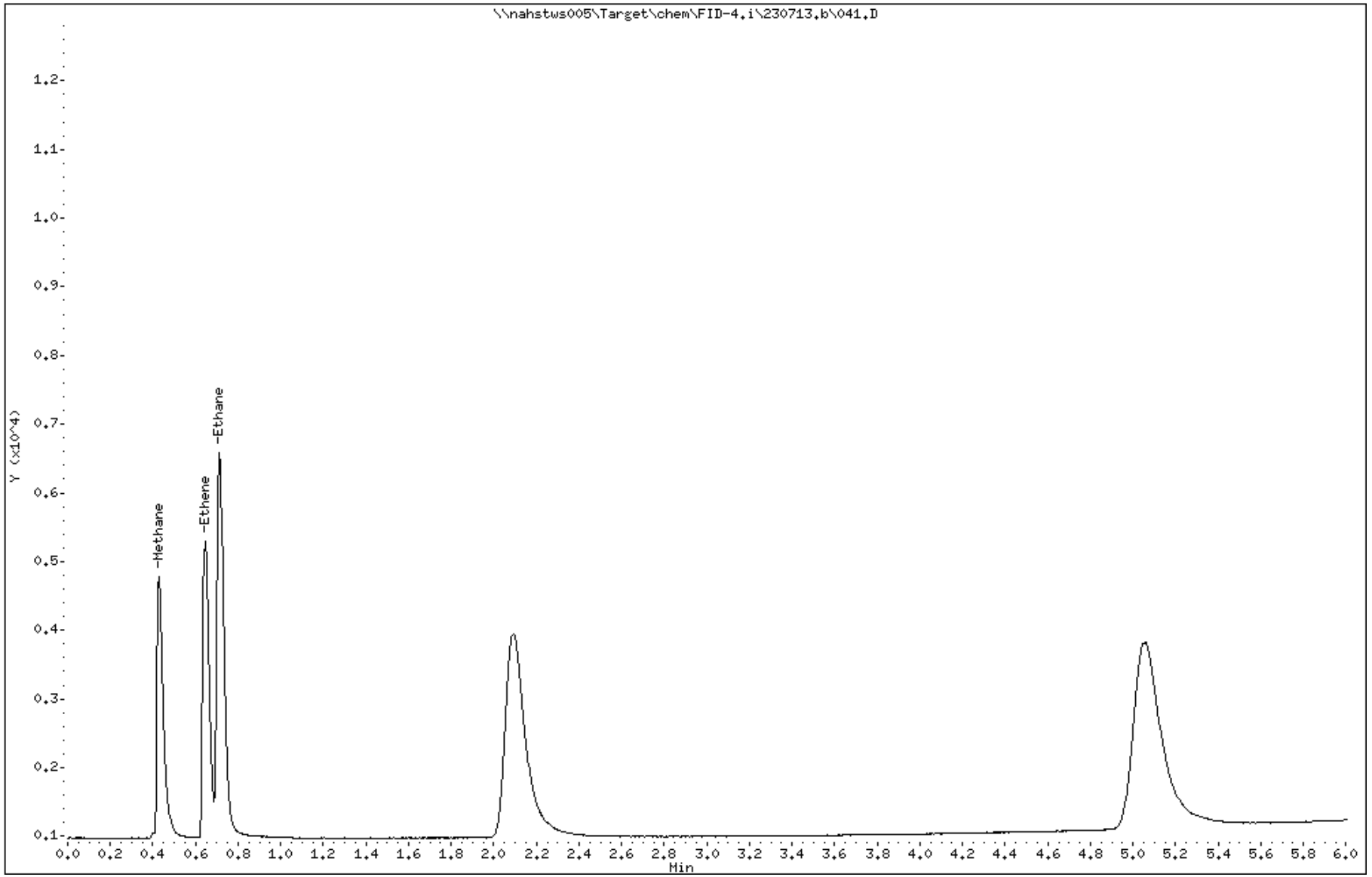
Instrument: FID-4.i

Sample Info: LCSD-230713;LCSD-230713;3;;LCSD

Operator: PL

Column phase: Rtx-PLOT

Column diameter: 0.53



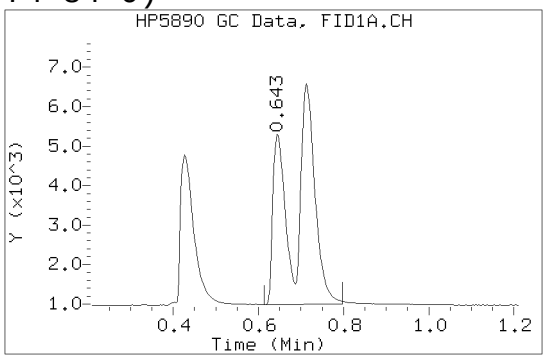
Data File : \\nahstws005\Target\chem\FID-4.i\230713.b\041.D
Inj Date : 13-JUL-2023 16:41
InstruID : FID-4.i
LabSampID : LCSD-230713

Ethane (74-84-0)

Reason Code:

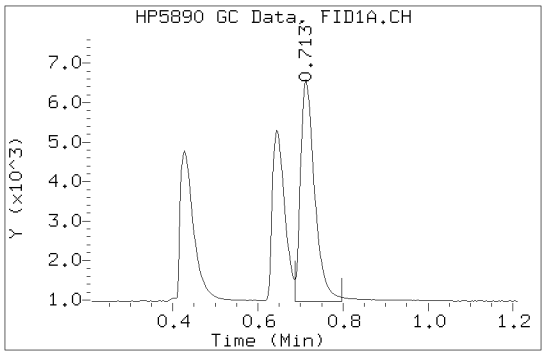
BEFORE

MASS
44
AREA
21459
HEIGHT
4305
13-Jul-2023
16:48
ALSHS
Server



AFTER

MASS
44
AREA
13024
HEIGHT
5615
13-Jul-2023
16:57
ALSHS
Ser

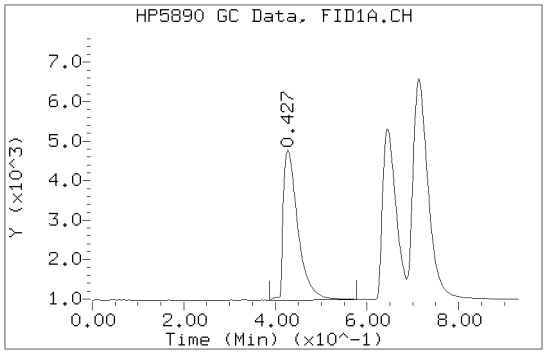


Ethene (74-85-1)

Reason Code:

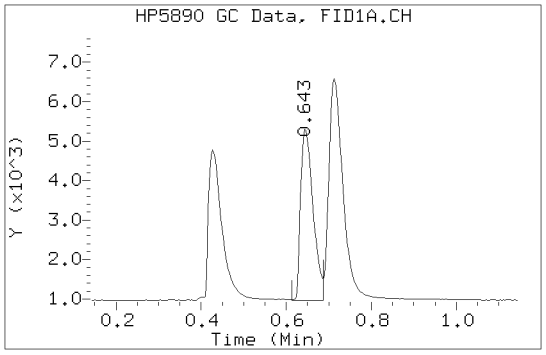
BEFORE

MASS
100
AREA
0
HEIGHT
0
13-Jul-2023
16:48
ALSHS
Server



AFTER

MASS
100
AREA
8880
HEIGHT
4328
13-Jul-2023
16:57
ALSHS
Ser



ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\nahstws005\Target\chem\FID-4.i\230713.b\043.D
Lab Smp Id: HS23070546-03MS Client Smp ID: HS23070546-03MS
Inj Date : 13-JUL-2023 16:59
Operator : PL Inst ID: FID-4.i
Smp Info : HS23070546-03MS;HS23070546-03MS
Misc Info : ;1;0;1
Comment :
Method : \\nahstws005\Target\chem\FID-4.i\230713.b\RSKNI3.m
Meth Date : 13-Jul-2023 15:16 samy.mata Quant Type: ESTD
Cal Date : 24-JAN-2017 10:15 Cal File: 004.D
Als bottle: 43 QC Sample: MS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: RSK175.sub
Target Version: 4.14
Processing Host: NAHSTW7022

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
1 Methane	0.436	0.430	0.006	1688807	1732.12	1732.123(AR)
2 Ethene	0.643	0.643	0.000	17723	30.2564	30.256(M)
3 Ethane	0.713	0.710	0.003	20432	28.3979	28.397(RM)

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

01319980

Data File: \\nahstws005\Target\chem\FID-4.i\230713.b\043.D

Date : 13-JUL-2023 16:59

Client ID: HS23070546-03MS

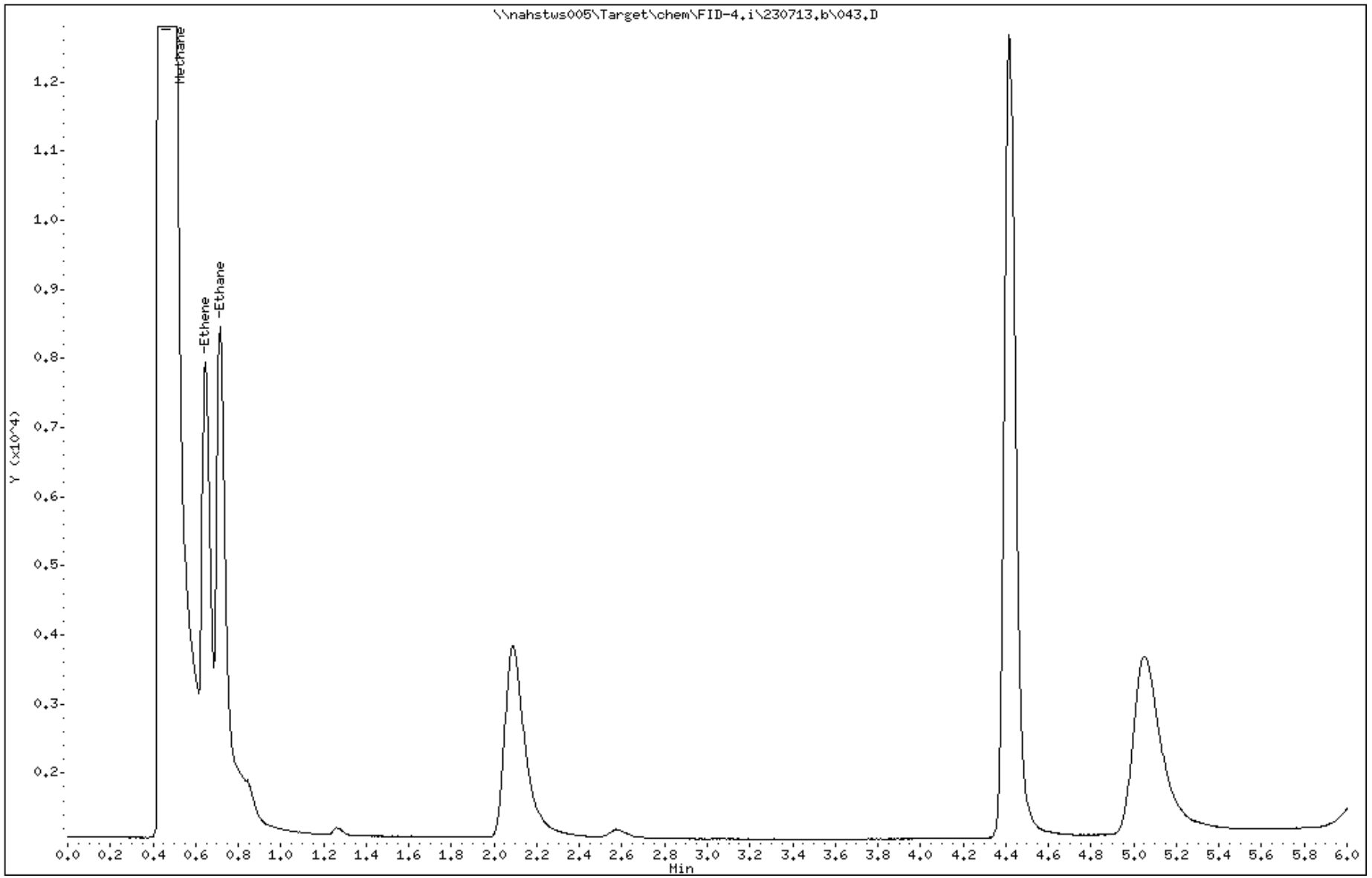
Instrument: FID-4.i

Sample Info: HS23070546-03MS;HS23070546-03MS

Operator: PL

Column phase: Rtx-PLOT

Column diameter: 0.53



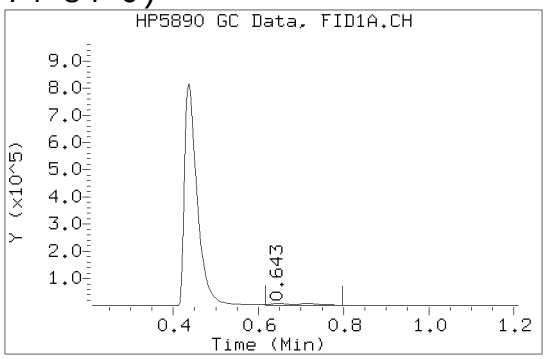
Data File : \\nahstws005\Target\chem\FID-4.i\230713.b\043.D
Inj Date : 13-JUL-2023 16:59
InstruID : FID-4.i
LabSampID : HS23070546-03MS

Ethane (74-84-0)

Reason Code:

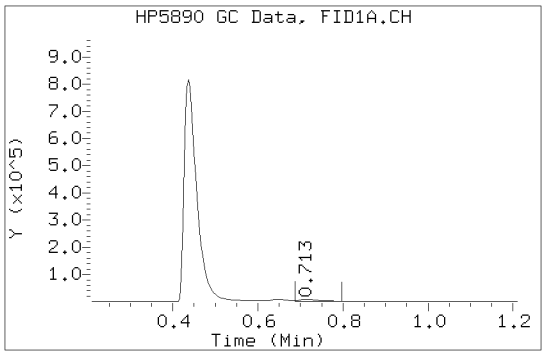
BEFORE

MASS
44
AREA
37545
HEIGHT
6415
13-Jul-2023
17:07
ALSHS
Server



AFTER

MASS
44
AREA
20432
HEIGHT
6919
13-Jul-2023
17:13
ALSHS
Ser

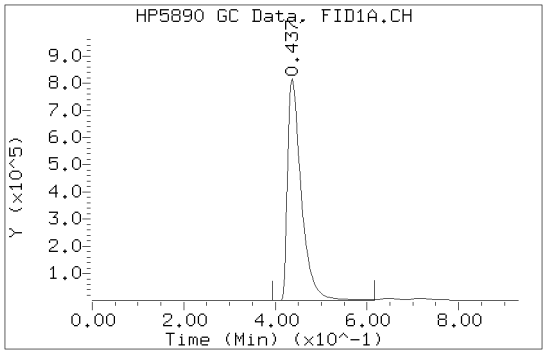


Ethene (74-85-1)

Reason Code:

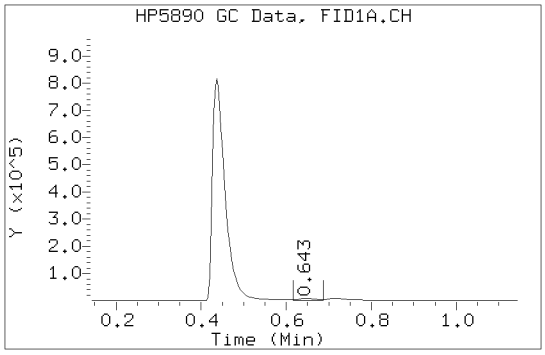
BEFORE

MASS
100
AREA
0
HEIGHT
0
13-Jul-2023
17:07
ALSHS
Server



AFTER

MASS
100
AREA
17723
HEIGHT
6413
13-Jul-2023
17:13
ALSHS
Ser



Data File: \\nahstws005\Target\chem\FID-4.i\230713.b\044.D Page 1
Report Date: 13-Jul-2023 17:30

ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\nahstws005\Target\chem\FID-4.i\230713.b\044.D
Lab Smp Id: RSK-CCV Client Smp ID: RSK-CCV
Inj Date : 13-JUL-2023 17:10
Operator : PL Inst ID: FID-4.i
Smp Info : RSK-CCV;RSK-CCV;2;4
Misc Info : ;1;0;1
Comment :
Method : \\nahstws005\Target\chem\FID-4.i\230713.b\RSKNI3.m
Meth Date : 13-Jul-2023 17:29 samy.mata Quant Type: ESTD
Cal Date : 24-JAN-2017 10:15 Cal File: 004.D
Als bottle: 44 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: RSK175.sub
Target Version: 4.14
Processing Host: NAHSTW7022

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
1 Methane	0.430	0.430	0.000	8411	9.64700	8.626(M)
2 Ethene	0.640	0.640	0.000	8889	16.8500	15.175(M)
3 Ethane	0.710	0.710	0.000	13288	18.0430	18.468(M)

QC Flag Legend

M - Compound response manually integrated.

01319983

Data File: \\nahstws005\Target\chem\FID-4.i\230713.b\044.D

Page 1

Date : 13-JUL-2023 17:10

Client ID: RSK-CCV

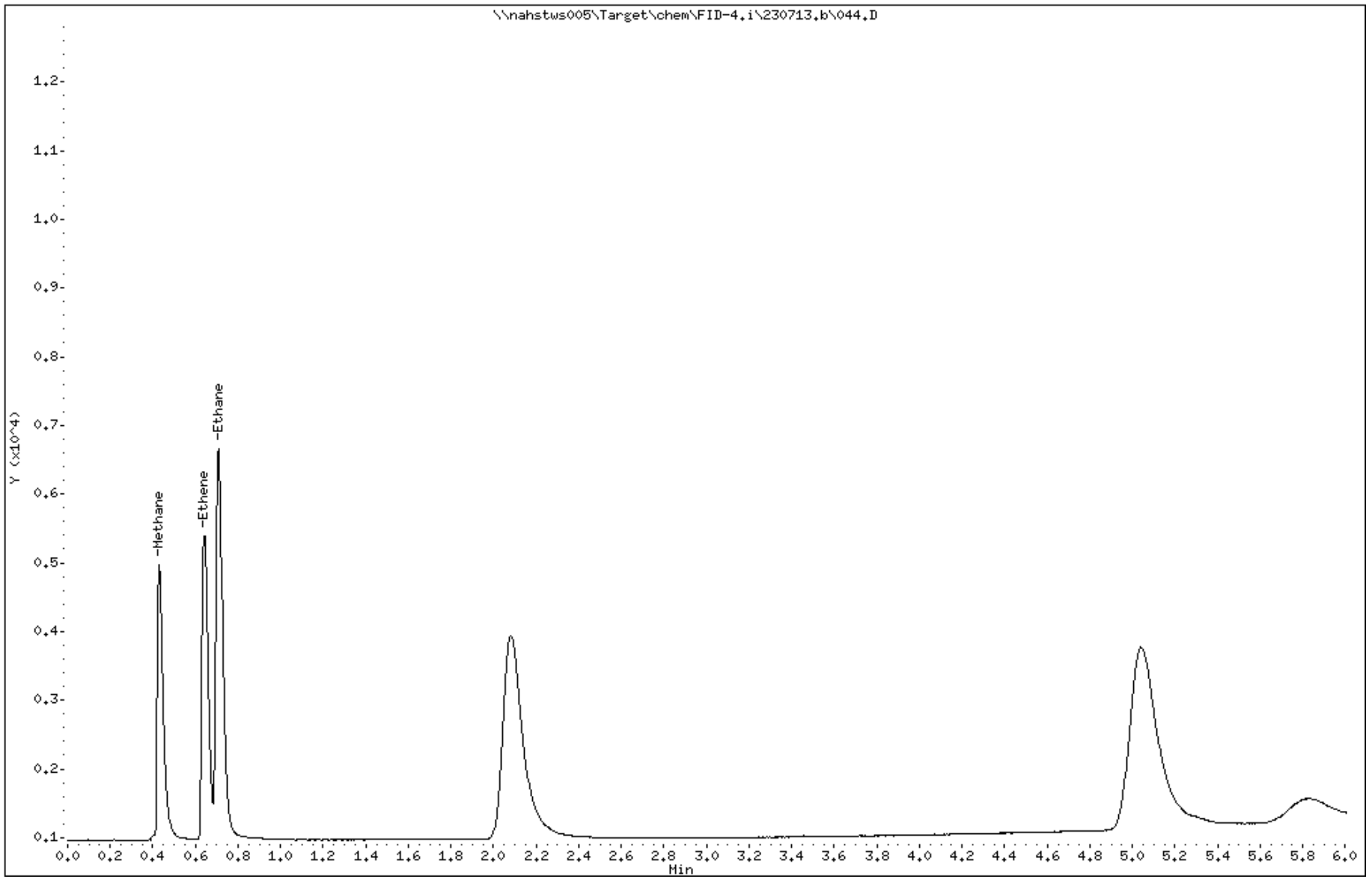
Instrument: FID-4.i

Sample Info: RSK-CCV;RSK-CCV;2;4

Operator: PL

Column phase: Rtx-PLOT

Column diameter: 0.53



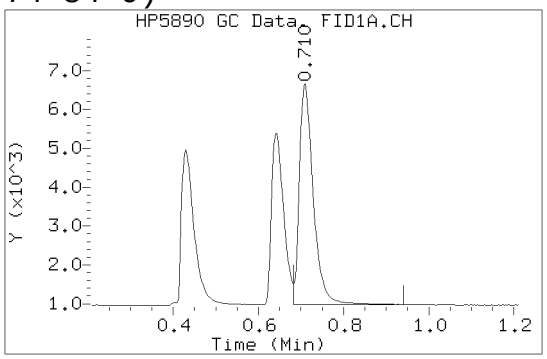
Data File : \\nahstws005\Target\chem\FID-4.i\230713.b\044.D
Inj Date : 13-JUL-2023 17:10
InstruID : FID-4.i
LabSampID : RSK-CCV

Ethane (74-84-0)

Reason Code:

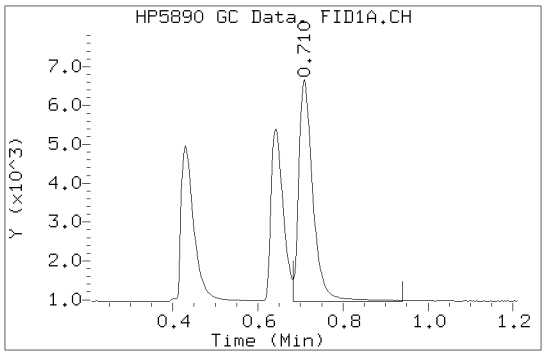
BEFORE

MASS
44
AREA
13055
HEIGHT
5691
13-Jul-2023
17:18
ALSHS
Server



AFTER

MASS
44
AREA
13288
HEIGHT
5702
13-Jul-2023
17:30
ALSHS
Ser

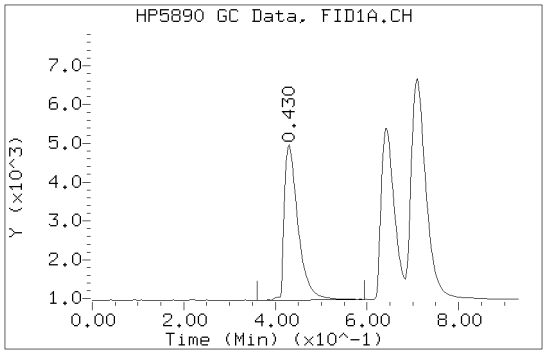


Methane (74-82-8)

Reason Code:

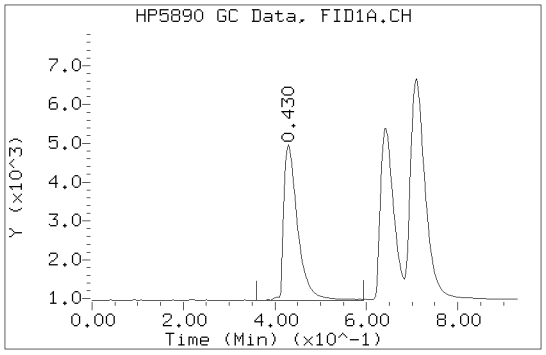
BEFORE

MASS
100
AREA
0
HEIGHT
0
13-Jul-2023
17:18
ALSHS
Server



AFTER

MASS
100
AREA
8411
HEIGHT
4009
13-Jul-2023
17:30
ALSHS
Ser

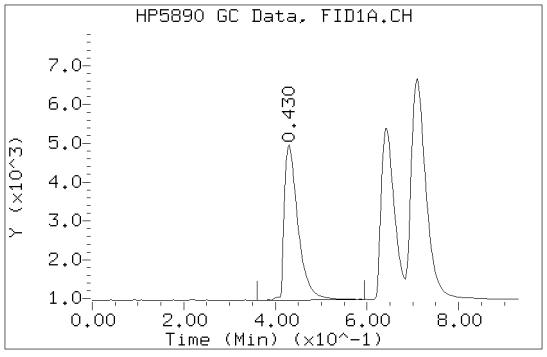


Ethene (74-85-1)

Reason Code:

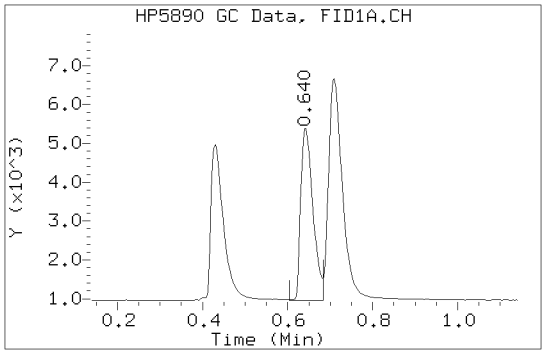
BEFORE

MASS
100
AREA
0
HEIGHT
0
13-Jul-2023
17:18
ALSHS
Server



AFTER

MASS
100
AREA
8889
HEIGHT
4425
13-Jul-2023
17:30
ALSHS
Ser



Data File: \\nahstws005\Target\chem\FID-4.i\230713.b\045.D Page 1
Report Date: 13-Jul-2023 17:37

ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\nahstws005\Target\chem\FID-4.i\230713.b\045.D
Lab Smp Id: HS23070546-03MSD Client Smp ID: HS23070546-03MSD
Inj Date : 13-JUL-2023 17:25
Operator : JA Inst ID: FID-4.i
Smp Info : HS23070546-03MSD;HS23070546-03MSD
Misc Info :
Comment :
Method : \\nahstws005\Target\chem\FID-4.i\230713.b\RSKNI3.m
Meth Date : 13-Jul-2023 17:29 samy.mata Quant Type: ESTD
Cal Date : 24-JAN-2017 10:15 Cal File: 004.D
Als bottle: 45 QC Sample: MSD
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: RSK175.sub
Target Version: 4.14
Processing Host: NAHSTW7022

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
1 Methane	0.436	0.430	0.006	1684384	1727.59	1727.586(AR)
2 Ethene	0.643	0.640	0.003	18061	30.8334	30.833(M)
3 Ethane	0.713	0.710	0.003	18599	25.8503	25.850(RM)

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

01319986

Data File: \\nahstws005\Target\chem\FID-4.i\230713.b\045.D

Page 1

Date : 13-JUL-2023 17:25

Client ID: HS23070546-03MSD

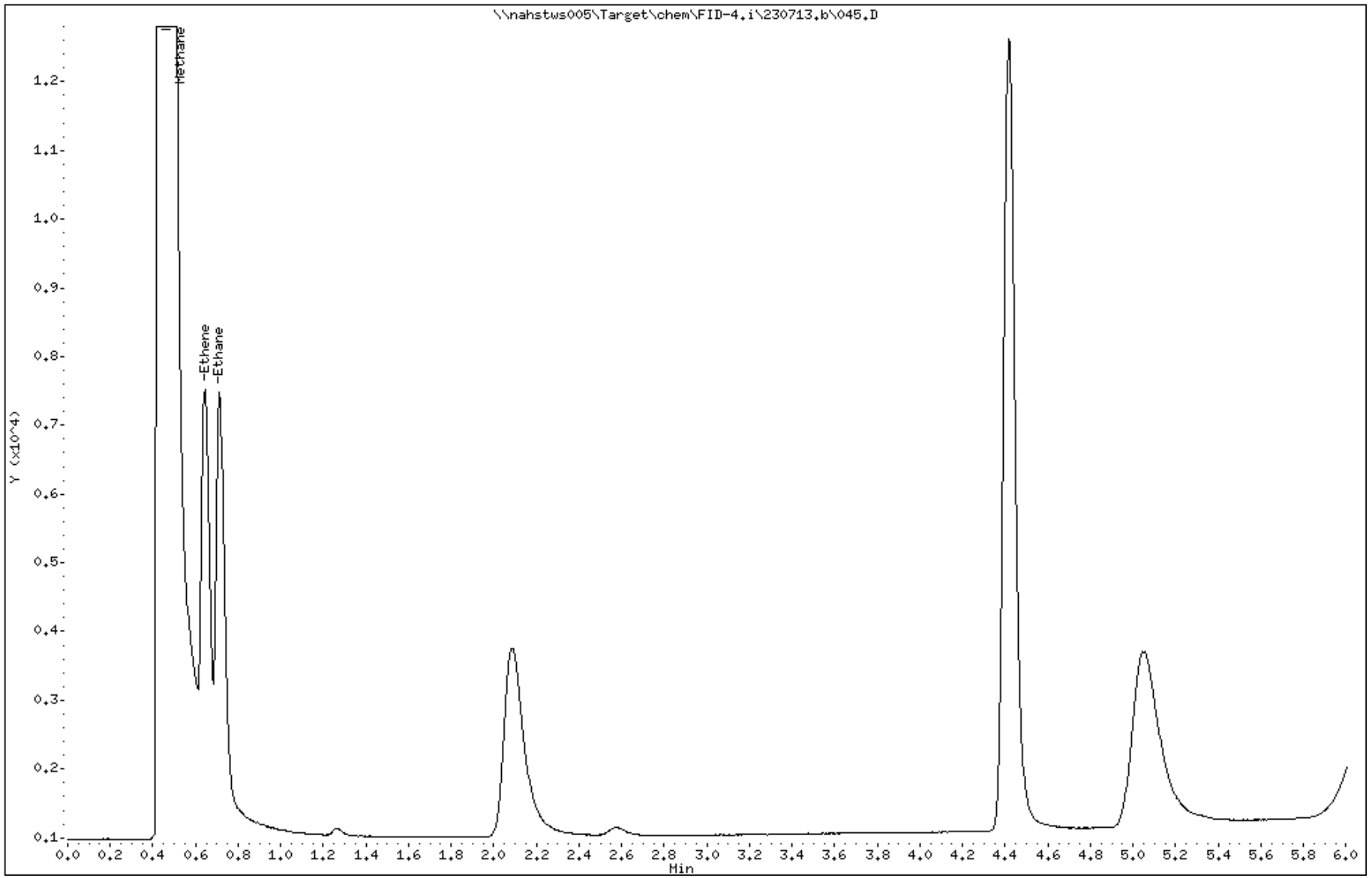
Instrument: FID-4.i

Sample Info: HS23070546-03MSD;HS23070546-03MSD

Operator: JA

Column phase: Rtx-PLOT

Column diameter: 0.53



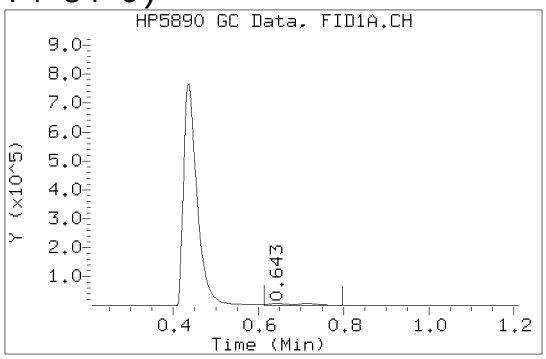
Data File : \\nahstws005\Target\chem\FID-4.i\230713.b\045.D
Inj Date : 13-JUL-2023 17:25
InstruID : FID-4.i
LabSampID : HS23070546-03MSD

Ethane (74-84-0)

Reason Code:

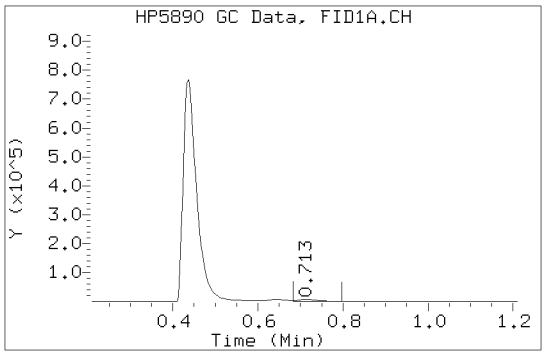
BEFORE

MASS
44
AREA
36037
HEIGHT
6336
13-Jul-2023
17:36
samy
mata



AFTER

MASS
44
AREA
18599
HEIGHT
6286
13-Jul-2023
17:37
samy
mata

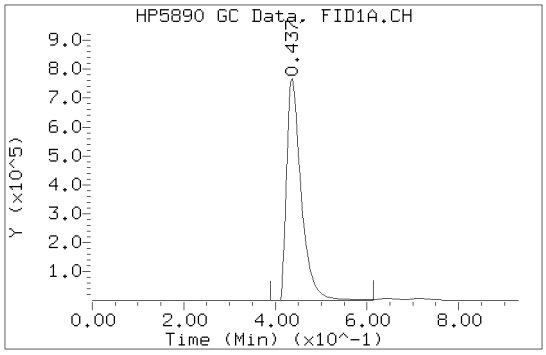


Ethene (74-85-1)

Reason Code:

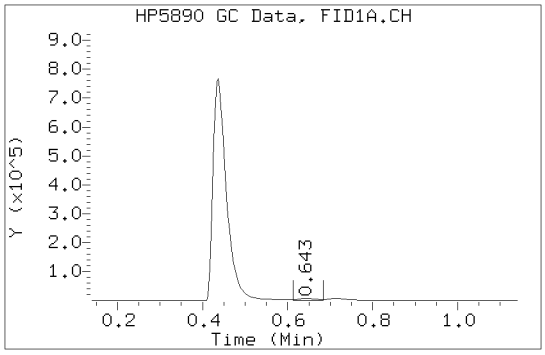
BEFORE

MASS
100
AREA
0
HEIGHT
0
13-Jul-2023
17:36
samy
mata



AFTER

MASS
100
AREA
18061
HEIGHT
6335
13-Jul-2023
17:37
samy
mata



Data File: \\nahstws005\Target\chem\FID-4.i\230713.b\047.D Page 1
Report Date: 13-Jul-2023 18:11

ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\nahstws005\Target\chem\FID-4.i\230713.b\047.D
Lab Smp Id: HS23070546-01 Client Smp ID: HS23070546-01
Inj Date : 13-JUL-2023 17:42
Operator : JA Inst ID: FID-4.i
Smp Info : HS23070546-01;HS23070546-01
Misc Info :
Comment :
Method : \\nahstws005\Target\chem\FID-4.i\230713.b\RSKNI3.m
Meth Date : 13-Jul-2023 17:29 samy.mata Quant Type: ESTD
Cal Date : 24-JAN-2017 10:15 Cal File: 004.D
Als bottle: 47
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: RSK175.sub
Target Version: 4.14
Processing Host: NAHSTW7022

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
1 Methane	0.423	0.430	-0.007	8742	8.96622	8.966
2 Ethene	0.636	0.640	-0.004	327	0.55825	0.558

01319989

Data File: \\nahstws005\Target\chem\FID-4.i\230713.b\047.D

Date : 13-JUL-2023 17:42

Client ID: HS23070546-01

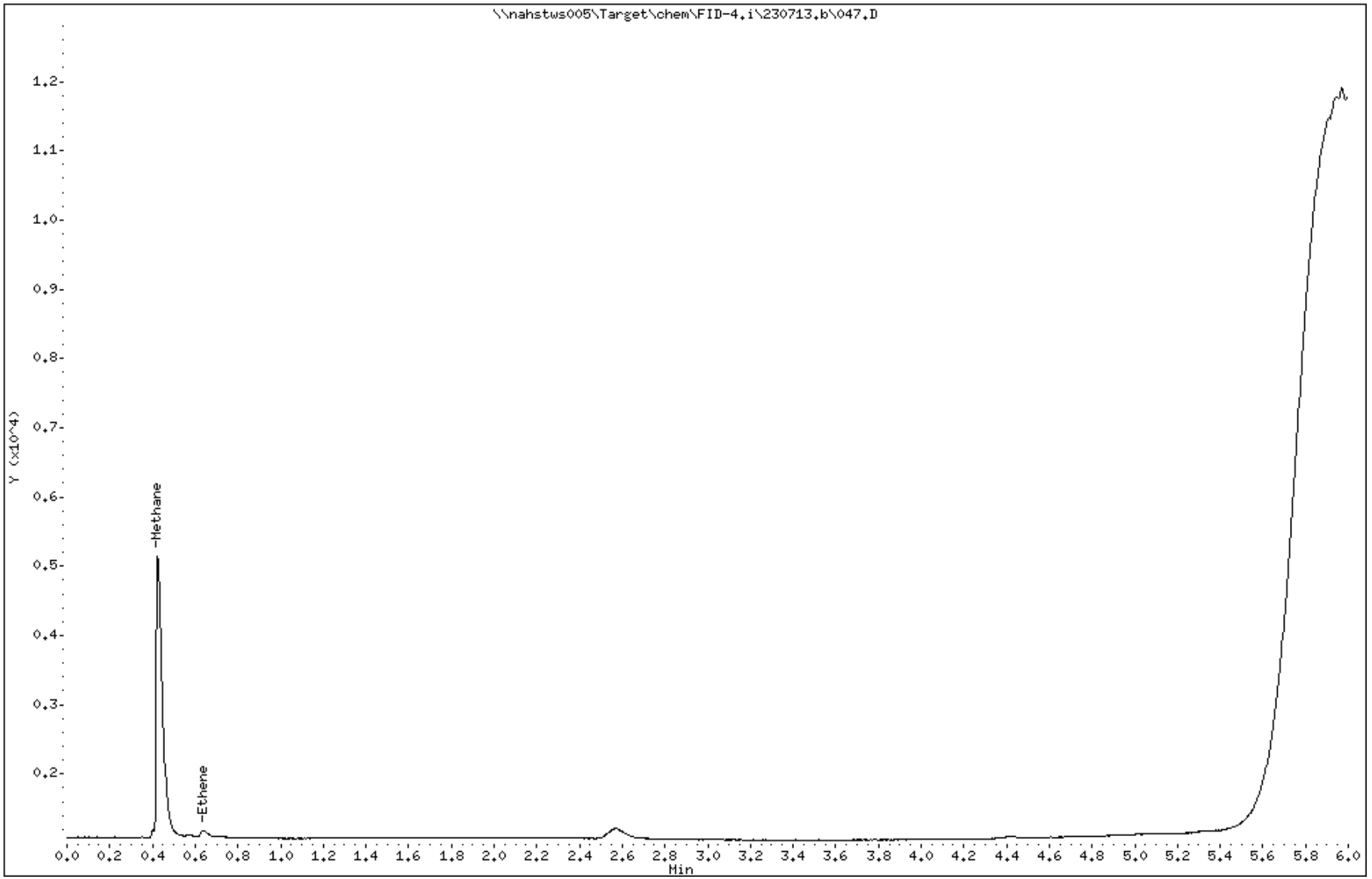
Instrument: FID-4.i

Sample Info: HS23070546-01;HS23070546-01

Operator: JA

Column phase: Rtx-PLOT

Column diameter: 0.53



Data File : \\nahstws005\target\chem\fid-4.i\230713.b\047.d
Inj Date : 13-JUL-2023 17:42
InstruID : FID-4.i
LabSampID : HS23070546-01

NO MANUAL INTEGRATIONS

Data File: \\nahstws005\Target\chem\FID-4.i\230713.b\048.D Page 1
Report Date: 13-Jul-2023 18:11

ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\nahstws005\Target\chem\FID-4.i\230713.b\048.D
Lab Smp Id: HS23070546-02 Client Smp ID: HS23070546-02
Inj Date : 13-JUL-2023 17:50
Operator : JA Inst ID: FID-4.i
Smp Info : HS23070546-02;HS23070546-02
Misc Info :
Comment :
Method : \\nahstws005\Target\chem\FID-4.i\230713.b\RSKNI3.m
Meth Date : 13-Jul-2023 17:29 samy.mata Quant Type: ESTD
Cal Date : 24-JAN-2017 10:15 Cal File: 004.D
Als bottle: 48
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: RSK175.sub
Target Version: 4.14
Processing Host: NAHSTW7022

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
1 Methane	0.436	0.430	0.006	1279	1.31181	1.311
2 Ethene	0.646	0.640	0.006	108	0.18438	0.184

01319992

Data File: \\nahstws005\Target\chem\FID-4.i\230713.b\048.D

Page 1

Date : 13-JUL-2023 17:50

Client ID: HS23070546-02

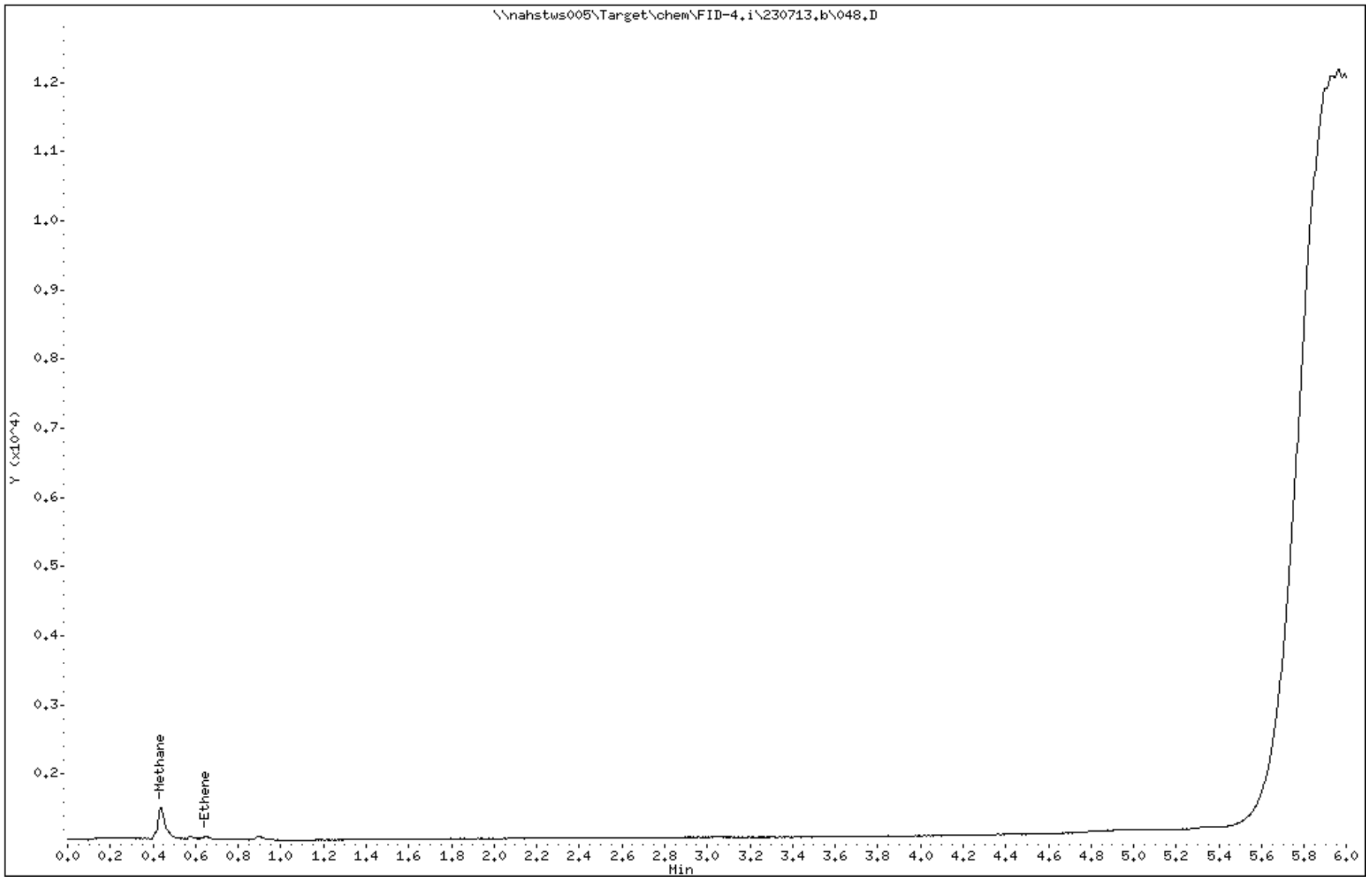
Instrument: FID-4.i

Sample Info: HS23070546-02;HS23070546-02

Operator: JA

Column phase: Rtx-PLOT

Column diameter: 0.53



Data File : \\nahstws005\Target\chem\FID-4.i\230713.b\048.D
Inj Date : 13-JUL-2023 17:50
InstruID : FID-4.i
LabSampID : HS23070546-02

NO MANUAL INTEGRATIONS

ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\nahstws005\Target\chem\FID-4.i\230713.b\049.D
Lab Smp Id: HS23070546-03 Client Smp ID: HS23070546-03
Inj Date : 13-JUL-2023 18:00
Operator : JA Inst ID: FID-4.i
Smp Info : HS23070546-03;HS23070546-03
Misc Info :
Comment :
Method : \\nahstws005\Target\chem\FID-4.i\230713.b\RSKNI3.m
Meth Date : 13-Jul-2023 17:29 samy.mata Quant Type: ESTD
Cal Date : 24-JAN-2017 10:15 Cal File: 004.D
Als bottle: 49
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: RSK175.sub
Target Version: 4.14
Processing Host: NAHSTW7022

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
1 Methane	0.430	0.430	0.000	1615130	1656.56	1656.556(A)
2 Ethene	0.636	0.640	-0.004	9286	15.8529	15.852
3 Ethane	0.706	0.710	-0.004	10887	15.1316	15.131

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

01319995

Data File: \\nahstws005\Target\chem\FID-4.i\230713.b\049.D

Date : 13-JUL-2023 18:00

Client ID: HS23070546-03

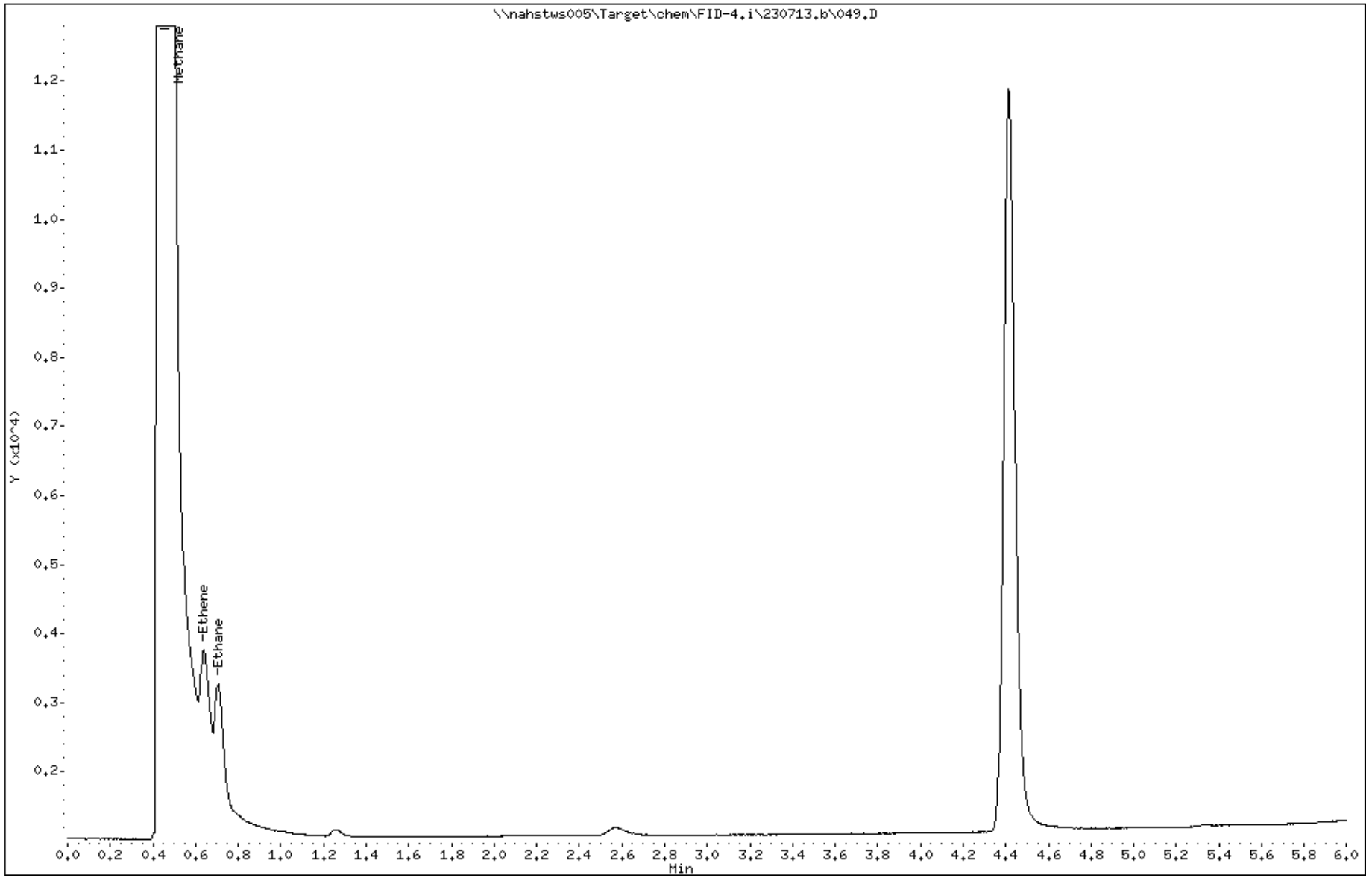
Instrument: FID-4.i

Sample Info: HS23070546-03;HS23070546-03

Operator: JA

Column phase: Rtx-PLOT

Column diameter: 0.53



Data File : \\nahstws005\Target\chem\FID-4.i\230713.b\049.D
Inj Date : 13-JUL-2023 18:00
InstruID : FID-4.i
LabSampID : HS23070546-03

NO MANUAL INTEGRATIONS

Data File: \\nahstws005\Target\chem\FID-4.i\230713.b\050.D Page 1
Report Date: 13-Jul-2023 18:32

ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\nahstws005\Target\chem\FID-4.i\230713.b\050.D
Lab Smp Id: HS23070546-03 Client Smp ID: HS23070546-03
Inj Date : 13-JUL-2023 18:12
Operator : JA Inst ID: FID-4.i
Smp Info : HS23070546-03;HS23070546-03
Misc Info : X50
Comment :
Method : \\nahstws005\Target\chem\FID-4.i\230713.b\RSKNI3.m
Meth Date : 13-Jul-2023 17:29 samy.mata Quant Type: ESTD
Cal Date : 24-JAN-2017 10:15 Cal File: 004.D
Als bottle: 50
Dil Factor: 50.00000
Integrator: Falcon Compound Sublist: RSK175.sub
Target Version: 4.14

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
1 Methane	0.443	0.430	0.013	32295	33.1233	1656.166(M)

QC Flag Legend

M - Compound response manually integrated.

01319998

Data File: \\nahstws005\target\chem\fid-4.i\230713.b\050.d

Date : 13-JUL-2023 18:12

Client ID: HS23070546-03

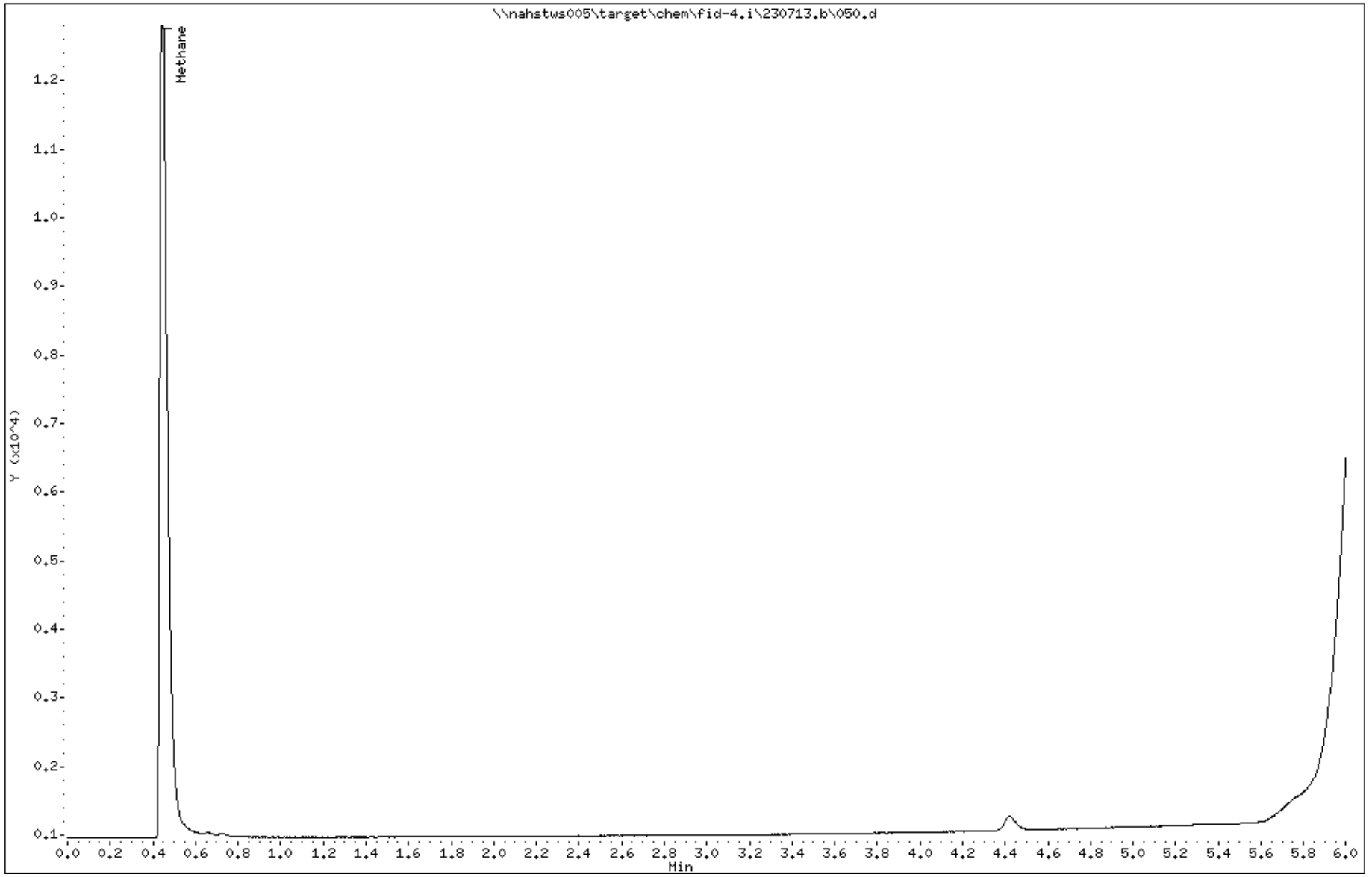
Instrument: FID-4.i

Sample Info: HS23070546-03;HS23070546-03

Operator: JA

Column phase: Rtx-PLOT

Column diameter: 0.53



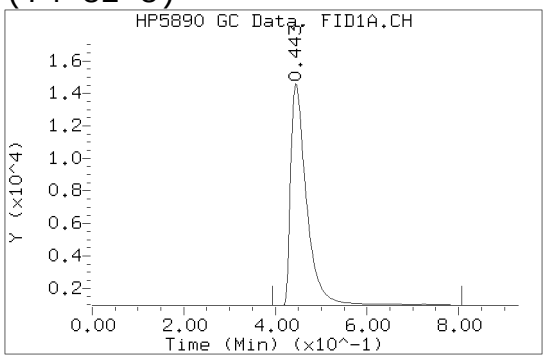
Data File : \\nahstws005\target\chem\fid-4.i\230713.b\050.d
Inj Date : 13-JUL-2023 18:12
InstruID : FID-4.i
LabSampID : HS23070546-03

Methane (74-82-8)

Reason Code:

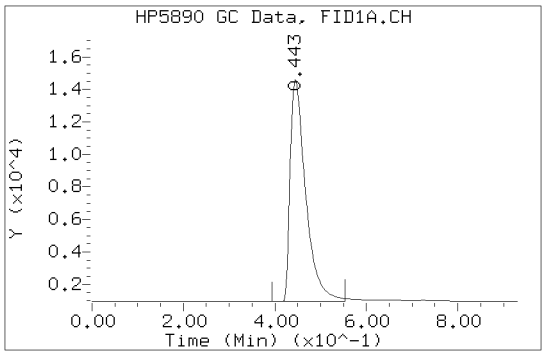
BEFORE

MASS
100
AREA
33167
HEIGHT
13637
13-Jul-2023
18:22
samy
mata



AFTER

MASS
100
AREA
32295
HEIGHT
13636
17-Jul-2023
07:57
samy
mata



Data File: \\nahstws005\Target\chem\FID-4.i\230713.b\055.D Page 1
Report Date: 13-Jul-2023 19:01

ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\nahstws005\Target\chem\FID-4.i\230713.b\055.D
Lab Smp Id: RSK-CCV Client Smp ID: RSK-CCV
Inj Date : 13-JUL-2023 18:53
Operator : JA Inst ID: FID-4.i
Smp Info : RSK-CCV;RSK-CCV;2;4
Misc Info :
Comment :
Method : \\nahstws005\Target\chem\FID-4.i\230713.b\RSKNI3.m
Meth Date : 13-Jul-2023 19:00 samy.mata Quant Type: ESTD
Cal Date : 24-JAN-2017 10:15 Cal File: 004.D
Als bottle: 55 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: RSK175.sub
Target Version: 4.14
Processing Host: NAHSTW7022

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Methane	0.433	0.433	0.000	9117	9.64700	9.350
2 Ethene	0.646	0.646	0.000	8964	16.8500	15.303(M)
3 Ethane	0.713	0.713	0.000	13036	18.0430	18.118(M)

QC Flag Legend

M - Compound response manually integrated.

01320001

Data File: \\nahstws005\Target\chem\FID-4.i\230713.b\055.D

Date : 13-JUL-2023 18:53

Client ID: RSK-CCV

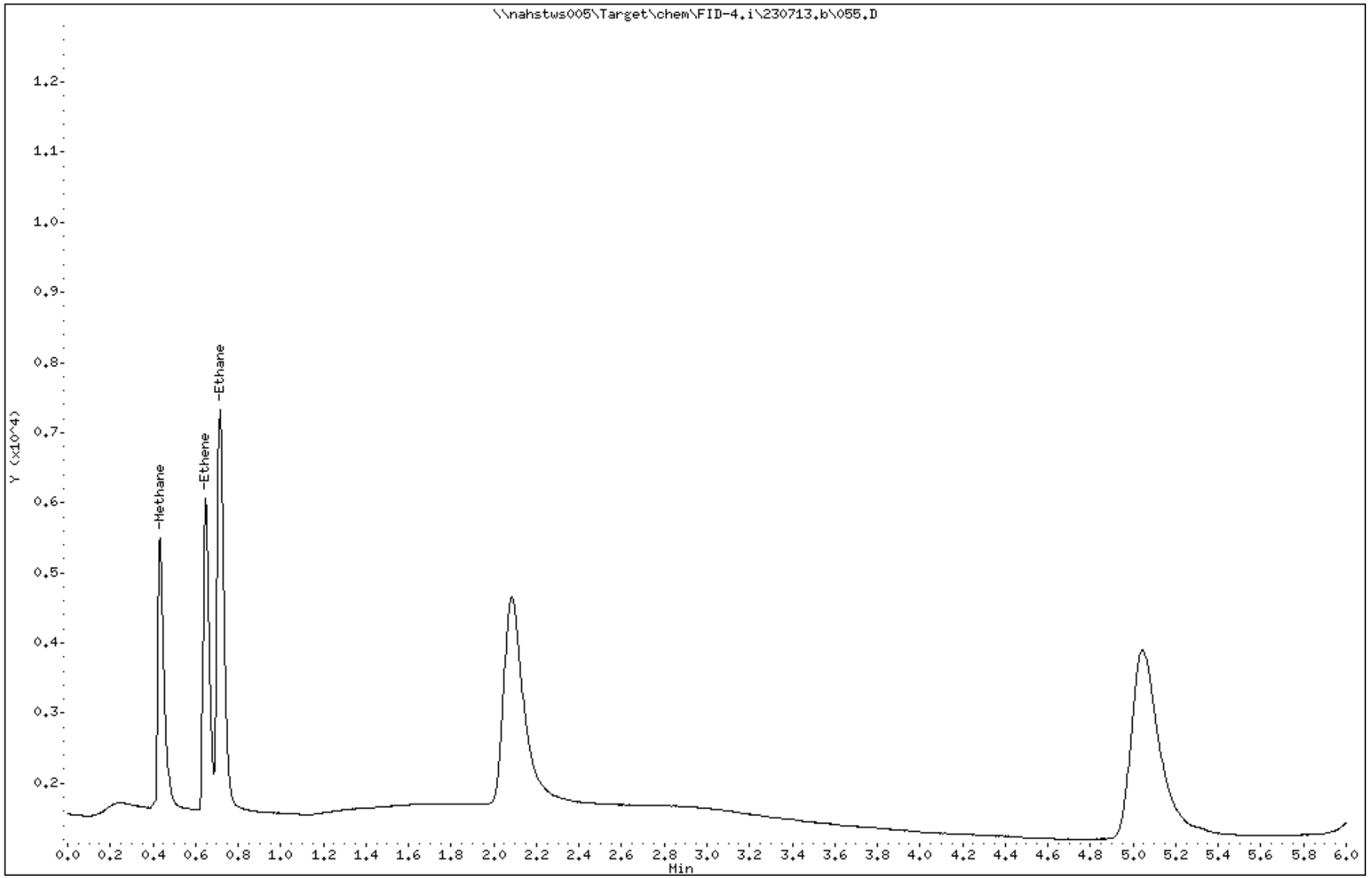
Instrument: FID-4.i

Sample Info: RSK-CCV;RSK-CCV;2;4

Operator: JA

Column phase: Rtx-PLOT

Column diameter: 0.53



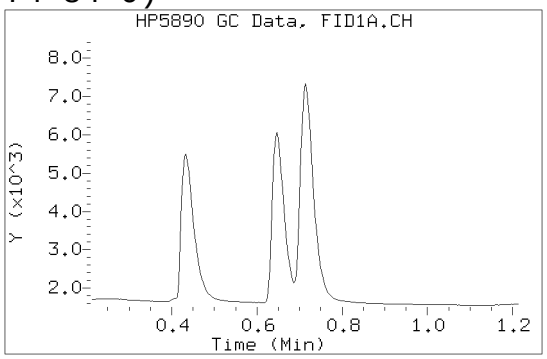
Data File : \\nahstws005\Target\chem\FID-4.i\230713.b\055.D
Inj Date : 13-JUL-2023 18:53
InstruID : FID-4.i
LabSampID : RSK-CCV

Ethane (74-84-0)

Reason Code:

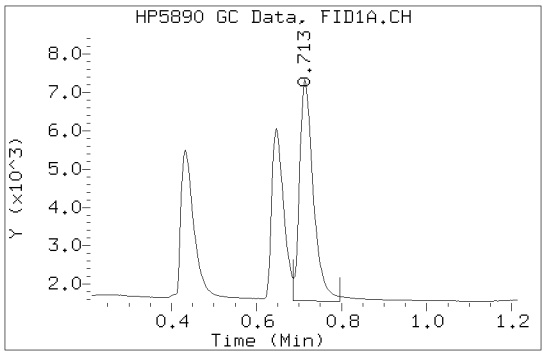
BEFORE

MASS
44
AREA
0
HEIGHT
0
13-Jul-2023
19:00
samy
mata



AFTER

MASS
44
AREA
13036
HEIGHT
5772
13-Jul-2023
19:01
samy
mata

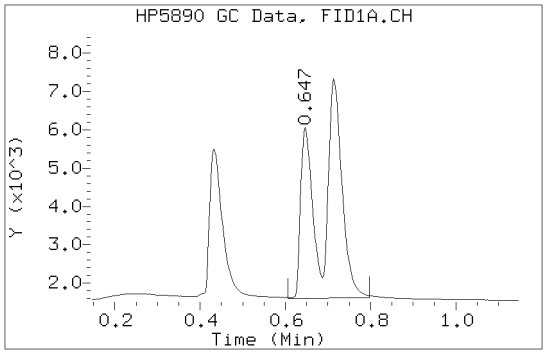


Ethene (74-85-1)

Reason Code:

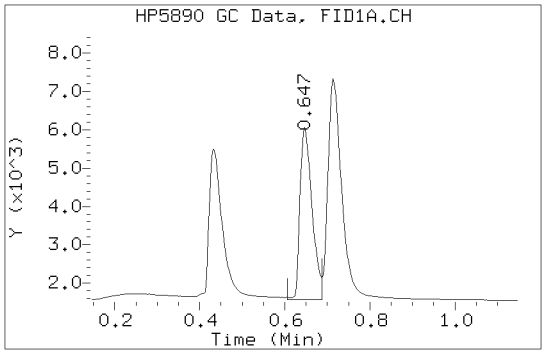
BEFORE

MASS
100
AREA
21326
HEIGHT
4459
13-Jul-2023
19:00
samy
mata



AFTER

MASS
100
AREA
8964
HEIGHT
4503
13-Jul-2023
19:01
samy
mata



Data File: \\nahstws005\Target\chem\FID-4.i\230713.b\063.D Page 1
Report Date: 13-Jul-2023 20:15

ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\nahstws005\Target\chem\FID-4.i\230713.b\063.D
Lab Smp Id: RSK-CCV Client Smp ID: RSK-CCV
Inj Date : 13-JUL-2023 20:06
Operator : JA Inst ID: FID-4.i
Smp Info : RSK-CCV;RSK-CCV;2;4
Misc Info :
Comment :
Method : \\nahstws005\Target\chem\FID-4.i\230713.b\RSKNI3.m
Meth Date : 13-Jul-2023 20:15 samy.mata Quant Type: ESTD
Cal Date : 24-JAN-2017 10:15 Cal File: 004.D
Als bottle: 63 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: RSK175.sub
Target Version: 4.14
Processing Host: NAHSTW7022

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
1 Methane	0.430	0.430	0.000	8430	9.64700	8.646
2 Ethene	0.646	0.646	0.000	8799	16.8500	15.021(M)
3 Ethane	0.716	0.716	0.000	12964	18.0430	18.018(M)

QC Flag Legend

M - Compound response manually integrated.

01320004

Data File: \\nahstws005\Target\chem\FID-4.i\230713.b\063.D

Date : 13-JUL-2023 20:06

Client ID: RSK-CCV

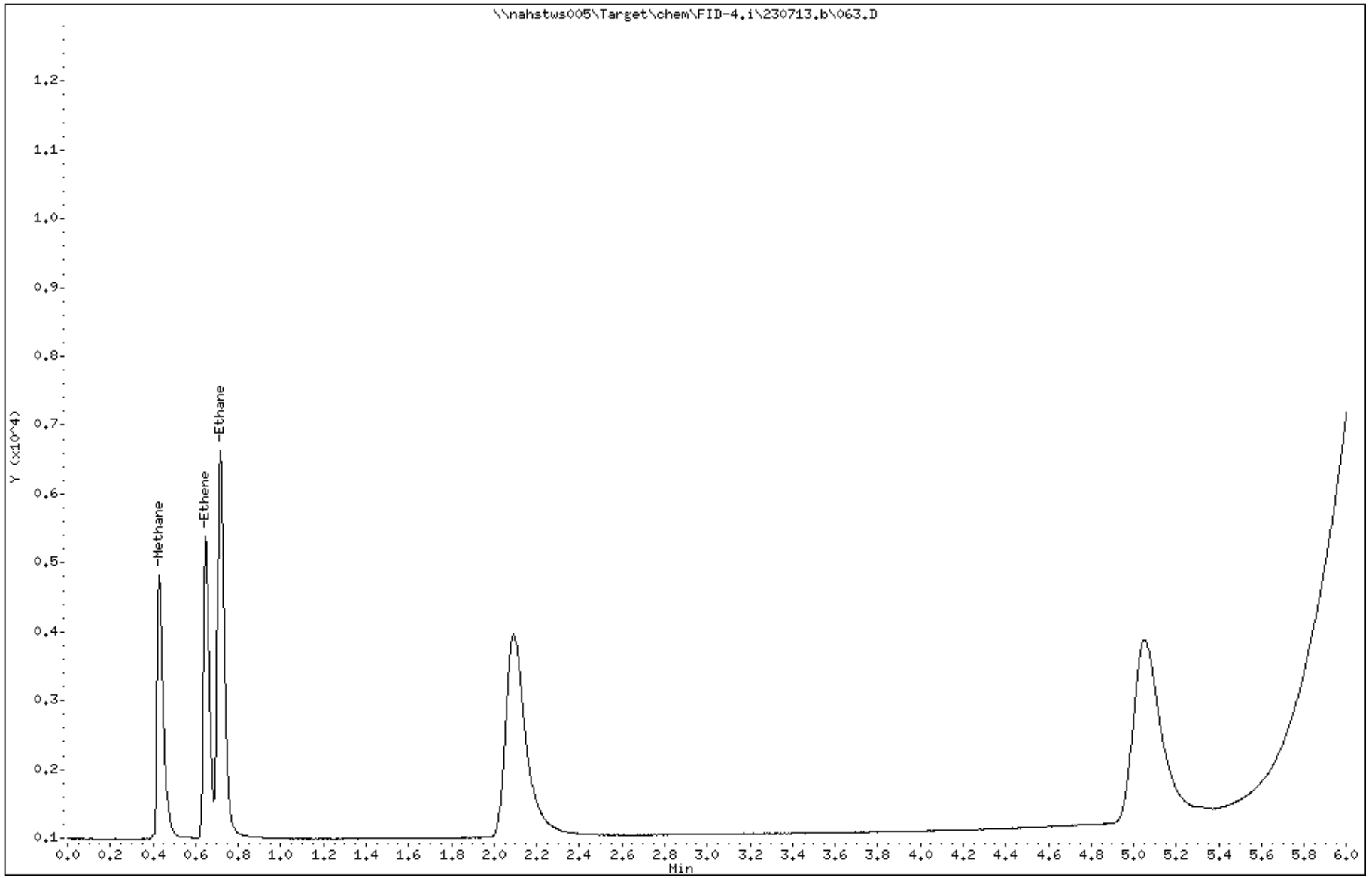
Instrument: FID-4.i

Sample Info: RSK-CCV;RSK-CCV;2;4

Operator: JA

Column phase: Rtx-PLOT

Column diameter: 0.53



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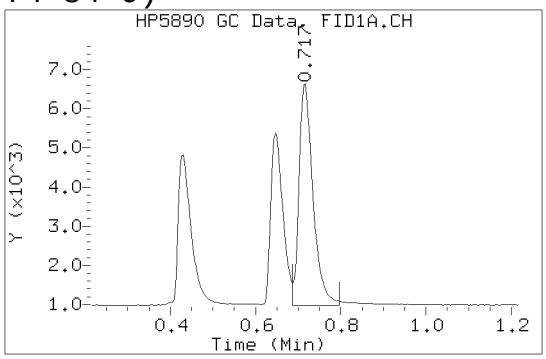
Inj Date : 13-JUL-2023 20:06
InstruID : FID-4.i
LabSampID : RSK-CCV

Ethane (74-84-0)

Reason Code:

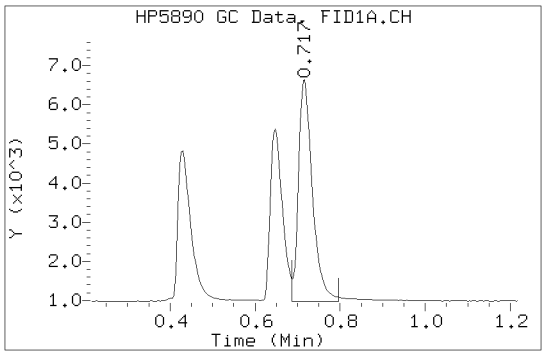
BEFORE

MASS
44
AREA
12964
HEIGHT
5657
13-Jul-2023
20:15
samy
mata



AFTER

MASS
44
AREA
12964
HEIGHT
5657
13-Jul-2023
20:15
samy
mata

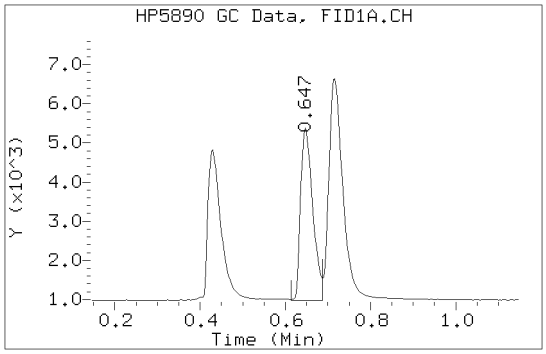


Ethene (74-85-1)

Reason Code:

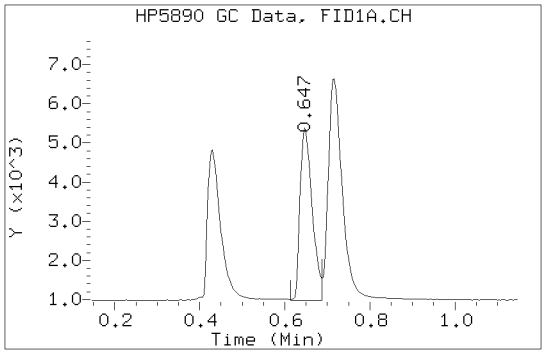
BEFORE

MASS
100
AREA
8799
HEIGHT
4407
13-Jul-2023
20:15
samy
mata



AFTER

MASS
100
AREA
8799
HEIGHT
4407
13-Jul-2023
20:15
samy
mata



HS23070546 Wetchem TOC_W

ALS WO# HS23070546

C:\TOC-L\Data\2023_06_21_002.tlx

	Type	Analysis	Sample Name	Sample ID	Origin	Manual Diluti	Result	Notes
1	Standard	NPOC	CALIBRATION		06_21_2023	1.000		
2	Unknown	NPOC	ICV		06_21_2023	1.000	NPOC:7.789mg/L	
3	Unknown	NPOC	ICB		06_21_2023	1.000	NPOC:0.1521mg/L	

C:\TOC-L\Data\2023_06_21_002.tlx

	Status	Date / Time	Vial
1	Completed	6/21/2023 6:	50, 51, 52, 5
2	Completed	6/21/2023 7:	57
3	Completed	6/21/2023 7:	58

TOC-Control L Report

2023_06_21_002.tlx

Instr.Information

Instrument Options	TOC/ASI/IC Unit/
Catalyst	Regular Sensitivity

Cal. Curve

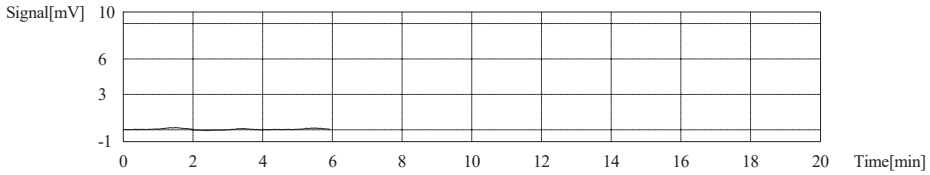
Sample Name:	CALIBRATION
Sample ID:	
Cal. Curve:	06_21_2023B.2023_06_21_17_09_19.cal
Status	Completed

Type	Anal.
Standard	NPOC

Conc: 0.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	0.3456	50uL	1.000	*******		6/21/2023 5:18:00 PM
2	0.2872	50uL	1.000	*******		6/21/2023 5:20:19 PM
3	0.1081	50uL	1.000	*******		6/21/2023 5:22:27 PM

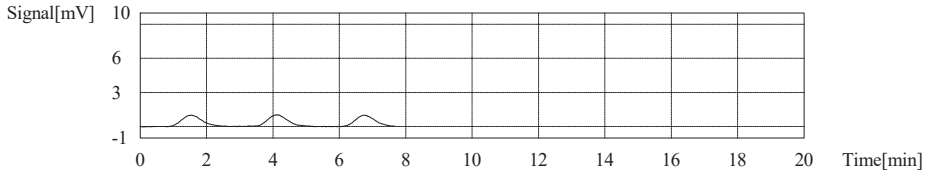
Acid Add.	1.500%
Sparge Gas Flow	80mL/min
Sp. Time	120.0sec
Mean Area	0.2470



Conc: 1.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	4.170	50uL	1.000	*******		6/21/2023 5:31:50 PM
2	4.088	50uL	1.000	*******		6/21/2023 5:34:43 PM
3	3.977	50uL	1.000	*******		6/21/2023 5:37:25 PM

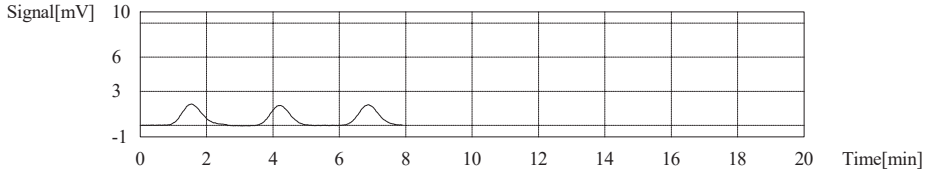
Acid Add.	1.500%
Sparge Gas Flow	80mL/min
Sp. Time	120.0sec
Mean Area	4.078



Conc: 2.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	7.677	50uL	1.000	*******		6/21/2023 5:46:50 PM
2	7.596	50uL	1.000	*******		6/21/2023 5:49:44 PM
3	7.710	50uL	1.000	*******		6/21/2023 5:52:35 PM

Acid Add.	1.500%
Sparge Gas Flow	80mL/min
Sp. Time	120.0sec
Mean Area	7.661



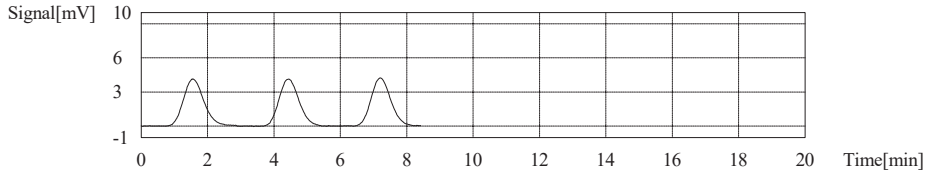
TOC-Control L Report

2023_06_21_002.tlx

Conc: 5.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	17.78	50uL	1.000	*******		6/21/2023 6:02:16 PM
2	17.59	50uL	1.000	*******		6/21/2023 6:05:16 PM
3	17.72	50uL	1.000	*******		6/21/2023 6:08:17 PM

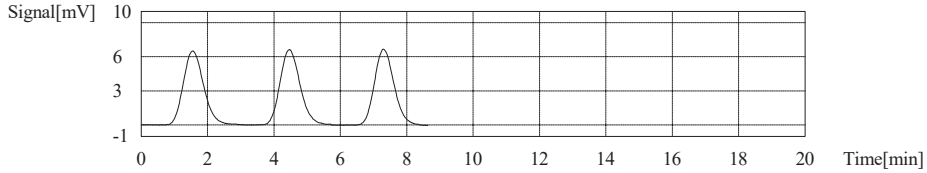
Acid Add. 1.500%
Sparge Gas Flow 80mL/min
Sp. Time 120.0sec
Mean Area 17.70



Conc: 10.00mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	27.66	50uL	1.000	*******		6/21/2023 6:18:00 PM
2	27.76	50uL	1.000	*******		6/21/2023 6:21:02 PM
3	27.86	50uL	1.000	*******		6/21/2023 6:24:11 PM

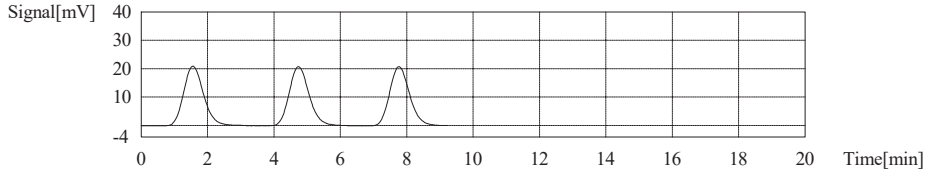
Acid Add. 1.500%
Sparge Gas Flow 80mL/min
Sp. Time 120.0sec
Mean Area 27.76



Conc: 25.00mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	87.98	50uL	1.000	*******		6/21/2023 6:34:09 PM
2	87.22	50uL	1.000	*******		6/21/2023 6:37:26 PM
3	87.78	50uL	1.000	*******		6/21/2023 6:40:41 PM

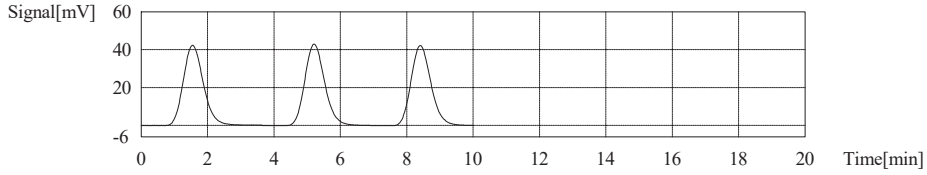
Acid Add. 1.500%
Sparge Gas Flow 80mL/min
Sp. Time 120.0sec
Mean Area 87.66



Conc: 50.00mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	179.6	50uL	1.000	*******		6/21/2023 6:51:07 PM
2	180.8	50uL	1.000	*******		6/21/2023 6:54:35 PM
3	177.8	50uL	1.000	*******		6/21/2023 6:57:57 PM

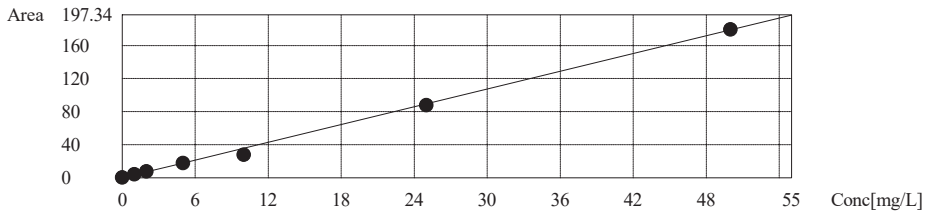
Acid Add. 1.500%
Sparge Gas Flow 80mL/min
Sp. Time 120.0sec
Mean Area 179.4



TOC-Control L Report

2023_06_21_002.tlx

Slope:	3.583
Intercept	0.000
r^2	0.9977
r	0.9989
RSE(%)	N/A
Zero Shift	Yes



Sample

Sample Name:	ICV
Sample ID:	
Origin:	06_21_2023B.cal
Status	Completed
Chk. Result	

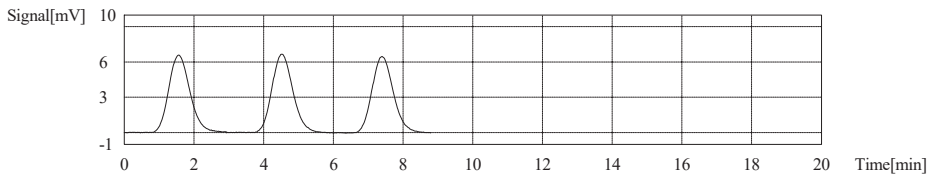
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:7.789mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	27.72	7.736mg/L	50uL	1.000		06_21_2023B.2023_06_21_17_09_19.cal	6/21/2023 7:07:41 PM
2	28.05	7.829mg/L	50uL	1.000		06_21_2023B.2023_06_21_17_09_19.cal	6/21/2023 7:10:48 PM
3	27.95	7.801mg/L	50uL	1.000		06_21_2023B.2023_06_21_17_09_19.cal	6/21/2023 7:14:01 PM

Mean Area	27.91
Mean Conc.	7.789mg/L



Sample

Sample Name:	ICB
Sample ID:	
Origin:	06_21_2023B.cal
Status	Completed
Chk. Result	

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.1521mg/L

1. Det

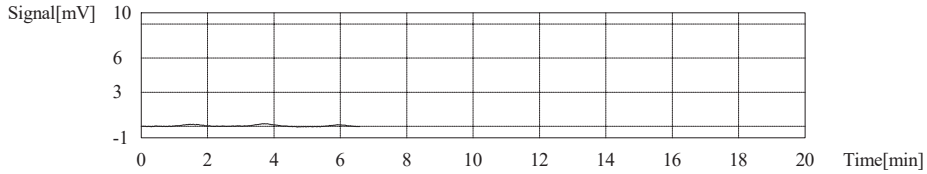
Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.4802	0.1340mg/L	50uL	1.000		06_21_2023B.2023_06_21_17_09_19.cal	6/21/2023 7:23:00 PM
2	0.6284	0.1754mg/L	50uL	1.000		06_21_2023B.2023_06_21_17_09_19.cal	6/21/2023 7:25:29 PM
3	0.5263	0.1469mg/L	50uL	1.000		06_21_2023B.2023_06_21_17_09_19.cal	6/21/2023 7:27:52 PM

TOC-Control L Report

2023_06_21_002.tlx

Mean Area	0.5450
Mean Conc.	0.1521mg/L



C:\TOC-L\Data\2023_07_26_002.tlx

	Sample Name	Sample ID	Result	Status	Date / Time	Vial
1	CCV		NPOC:25.87mg/L	Complet	7/26/2023 4:30:58 PM	1
2	CCB		NPOC:0.5326mg/L	Complet	7/26/2023 5:03:49 PM	2
3	MBLK-07262023		NPOC:0.2923mg/L	Complet	7/26/2023 5:17:25 PM	3
4	LCS-07262023		NPOC:9.626mg/L	Complet	7/26/2023 5:33:25 PM	4
5	LCSD-07262023		NPOC:9.663mg/L	Complet	7/26/2023 5:49:37 PM	5
6	HS23070546-01DF10	TOC_W	NPOC:0.9834mg/L	Complet	7/26/2023 6:04:12 PM	6
7	HS23070546-02DF10		NPOC:2.945mg/L	Complet	7/26/2023 6:19:42 PM	7
8	HS23070546-03DF10		NPOC:0.7587mg/L	Complet	7/26/2023 6:34:10 PM	8
9	HS23070546-03MS		NPOC:10.43mg/L	Complet	7/26/2023 6:50:21 PM	9
10	HS23070644-01		NPOC:3.582mg/L	Complet	7/26/2023 7:05:56 PM	10
11	HS23070658-01DF20		NPOC:0.5254mg/L	Complet	7/26/2023 7:20:35 PM	11
12	HS23070658-02DF10		NPOC:6.011mg/L	Complet	7/26/2023 7:36:31 PM	12
13	CCV		NPOC:24.94mg/L	Complet	7/26/2023 7:53:43 PM	1
14	CCB		NPOC:0.5538mg/L	Complet	7/26/2023 8:08:03 PM	2
15	HS23070658-05DF10		NPOC:2.375mg/L	Complet	7/26/2023 8:23:16 PM	13
16	HS23070658-06DF10		NPOC:8.480mg/L	Complet	7/26/2023 8:39:37 PM	14
17	HS23070658-07DF10	TOC_W 5310B	NPOC:2.927mg/L	Complet	7/26/2023 8:54:56 PM	15
18	HS23070658-09DF10		NPOC:0.5824mg/L	Complet	7/26/2023 9:09:32 PM	16
19	CCV		NPOC:24.72mg/L	Complet	7/26/2023 9:26:32 PM	1
20	CCB		NPOC:0.5025mg/L	Complet	7/26/2023 9:40:54 PM	2
21	MBLK-07262023		NPOC:0.1884mg/L	Complet	7/26/2023 9:54:28 PM	3
22	LCS-07262023		NPOC:9.469mg/L	Complet	7/26/2023 10:10:52 P	4
23	LCSD-07262023		NPOC:9.475mg/L	Complet	7/26/2023 10:27:06 P	5
24	HS23070658-10DF10	TOC_W 5310B	NPOC:0.5982mg/L	Complet	7/26/2023 10:41:36 P	17
25	HS23070651-02		NPOC:2.255mg/L	Complet	7/26/2023 10:56:44 P	18
26	HS23070651-04		NPOC:3.110mg/L	Complet	7/26/2023 11:14:13 P	19
27	HS23070659-01DF100		NPOC:0.7403mg/L	Complet	7/26/2023 11:28:22 P	20
28	HS23070659-01MS		NPOC:9.971mg/L	Complet	7/26/2023 11:44:19 P	21
29	HS23070659-04DF100		NPOC:0.4757mg/L	Complet	7/26/2023 11:58:26 P	22
30	HS23070659-05DF100		NPOC:0.2729mg/L	Complet	7/27/2023 12:12:16 A	23
31	CCV		NPOC:25.06mg/L	Complet	7/27/2023 12:29:02 A	32
32	CCB		NPOC:0.4280mg/L	Complet	7/27/2023 12:43:09 A	33
33	HS23071115-04		NPOC:195.8mg/L	Complet	7/27/2023 1:00:50 AM	24
34	HS23071115-06		NPOC:2.760mg/L	Complet	7/27/2023 1:16:03 AM	25
35	HS23071353-01		NPOC:2.753mg/L	Complet	7/27/2023 1:31:28 AM	26
36	HS23070647-01DF1000		NPOC:0.4430mg/L	Complet	7/27/2023 1:45:20 AM	27
37	CCV		NPOC:25.40mg/L	Complet	7/27/2023 2:02:26 AM	32
38	CCB		NPOC:0.2421mg/L	Complet	7/27/2023 2:16:19 AM	33
39	MBLK-07262023		NPOC:0.1746mg/L	Complet	7/27/2023 2:30:22 AM	3
40	LCS-07262023		NPOC:9.340mg/L	Complet	7/27/2023 2:46:29 AM	4
41	LCSD-07262023		NPOC:9.482mg/L	Complet	7/27/2023 3:02:39 AM	5
42	HS23070647-02DF1000		NPOC:0.5667mg/L	Complet	7/27/2023 3:17:08 AM	28
43	HS23070647-03DF1000		NPOC:0.8598mg/L	Complet	7/27/2023 3:31:26 AM	29
44	HS23070728-01DF100		NPOC:0.9769mg/L	Complet	7/27/2023 3:45:42 AM	30
45	HS23070728-01MS		NPOC:10.20mg/L	Complet	7/27/2023 4:01:59 AM	31
46	CCV		NPOC:25.43mg/L	Complet	7/27/2023 4:19:14 AM	32
47	CCB		NPOC:0.4344mg/L	Complet	7/27/2023 4:33:34 AM	33

TOC-Control L Report

2023_07_26_002.tlx

Instr.Information

Instrument Options TOC/ASI/IC Unit/
Catalyst Regular Sensitivity

Sample

Sample Name: CCV
Sample ID:
Origin: 06_21_2023B.cal
Status Completed
Chk. Result

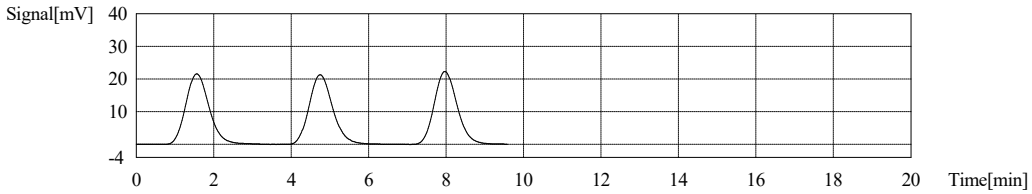
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:25.87mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	90.63	25.65mg/L	50uL	1.000		06_21_2023B.2023_06_22_09_52_42.cal	7/26/2023 4:24:05 PM
2	91.15	25.80mg/L	50uL	1.000		06_21_2023B.2023_06_22_09_52_42.cal	7/26/2023 4:27:32 PM
3	92.49	26.18mg/L	50uL	1.000		06_21_2023B.2023_06_22_09_52_42.cal	7/26/2023 4:30:58 PM

Mean Area 91.42
Mean Conc. 25.87mg/L



Sample

Sample Name: CCB
Sample ID:
Origin: 06_21_2023B.cal
Status Completed
Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.5326mg/L

1. Det

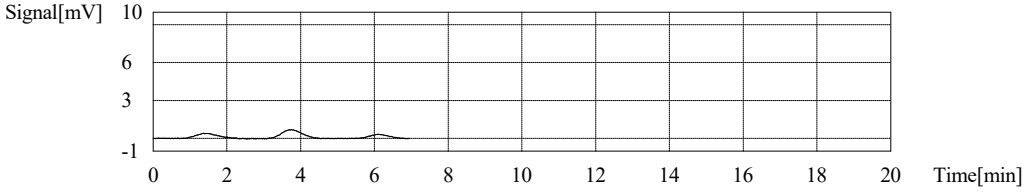
Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	1.630	0.4613mg/L	50uL	1.000		06_21_2023B.2023_06_22_09_52_42.cal	7/26/2023 4:58:41 PM
2	2.801	0.7927mg/L	50uL	1.000		06_21_2023B.2023_06_22_09_52_42.cal	7/26/2023 5:01:20 PM
3	1.215	0.3439mg/L	50uL	1.000		06_21_2023B.2023_06_22_09_52_42.cal	7/26/2023 5:03:49 PM

TOC-Control L Report

2023_07_26_002.tlx

Mean Area 1.882
Mean Conc. 0.5326mg/L



Sample

Sample Name: MBLK-07262023
Sample ID:
Origin: 06_21_2023B.cal
Status Completed
Chk. Result

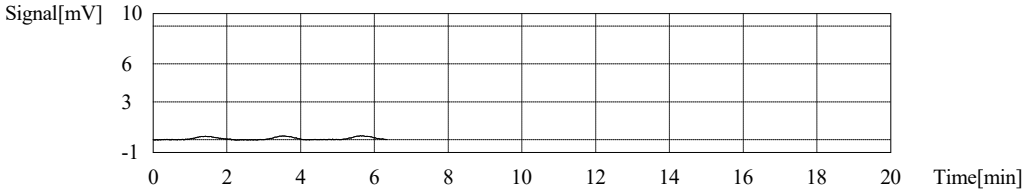
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.2923mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.9136	0.2586mg/L	50uL	1.000		06_21_2023B.2023_06_22_09_52_42.cal	7/26/2023 5:12:42 PM
2	1.094	0.3096mg/L	50uL	1.000		06_21_2023B.2023_06_22_09_52_42.cal	7/26/2023 5:15:05 PM
3	1.091	0.3088mg/L	50uL	1.000		06_21_2023B.2023_06_22_09_52_42.cal	7/26/2023 5:17:25 PM

Mean Area 1.033
Mean Conc. 0.2923mg/L



Sample

Sample Name: LCS-07262023
Sample ID:
Origin: 06_21_2023B.cal
Status Completed
Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:9.626mg/L

1. Det

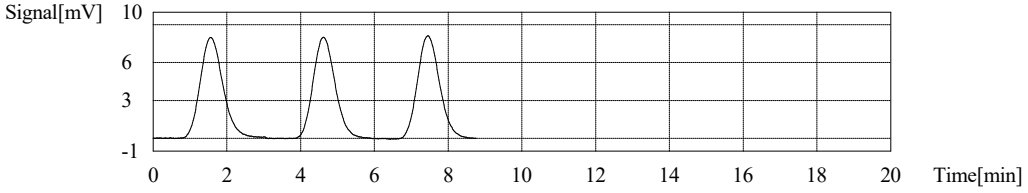
Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	34.21	9.682mg/L	50uL	1.000		06_21_2023B.2023_06_22_09_52_42.cal	7/26/2023 5:27:14 PM
2	33.31	9.427mg/L	50uL	1.000		06_21_2023B.2023_06_22_09_52_42.cal	7/26/2023 5:30:19 PM
3	34.52	9.770mg/L	50uL	1.000		06_21_2023B.2023_06_22_09_52_42.cal	7/26/2023 5:33:25 PM

TOC-Control L Report

2023_07_26_002.tlx

Mean Area 34.01
Mean Conc. 9.626mg/L



Sample

Sample Name: LCSD-07262023
Sample ID:
Origin: 06_21_2023B.cal
Status Completed
Chk. Result

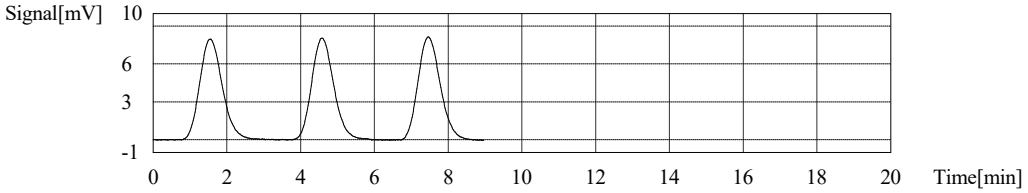
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:9.663mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	34.05	9.637mg/L	50uL	1.000		06_21_2023B.2023_06_22_09_52_42.cal	7/26/2023 5:43:11 PM
2	33.71	9.540mg/L	50uL	1.000		06_21_2023B.2023_06_22_09_52_42.cal	7/26/2023 5:46:20 PM
3	34.67	9.812mg/L	50uL	1.000		06_21_2023B.2023_06_22_09_52_42.cal	7/26/2023 5:49:37 PM

Mean Area 34.14
Mean Conc. 9.663mg/L



Sample

Sample Name: HS23070546-01DF10
Sample ID: TOC_W
Origin: 06_21_2023B.cal
Status Completed
Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.9834mg/L

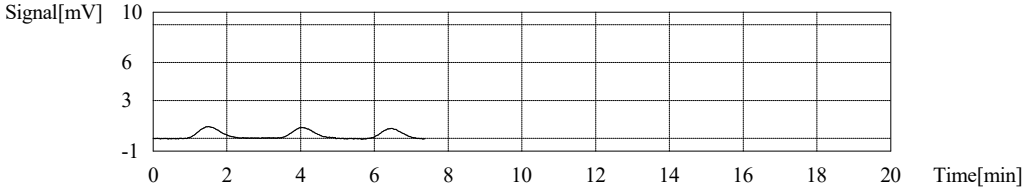
1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	3.824	1.082mg/L	50uL	1.000		06_21_2023B.2023_06_22_09_52_42.cal	7/26/2023 5:58:53 PM
2	3.194	0.9040mg/L	50uL	1.000		06_21_2023B.2023_06_22_09_52_42.cal	7/26/2023 6:01:34 PM
3	3.406	0.9640mg/L	50uL	1.000		06_21_2023B.2023_06_22_09_52_42.cal	7/26/2023 6:04:12 PM

TOC-Control L Report

Mean Area 3.475
Mean Conc. 0.9834mg/L



Sample

Sample Name: HS23070546-02DF10
Sample ID:
Origin: 06_21_2023B.cal
Status Completed
Chk. Result

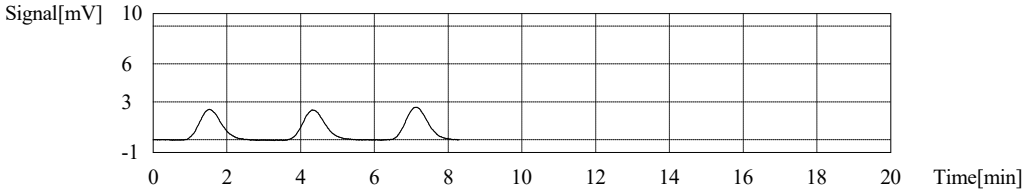
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:2.945mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	10.04	2.841mg/L	50uL	1.000		06_21_2023B.2023_06_22_09_52_42.cal	7/26/2023 6:13:44 PM
2	10.42	2.949mg/L	50uL	1.000		06_21_2023B.2023_06_22_09_52_42.cal	7/26/2023 6:16:46 PM
3	10.76	3.045mg/L	50uL	1.000		06_21_2023B.2023_06_22_09_52_42.cal	7/26/2023 6:19:42 PM

Mean Area 10.41
Mean Conc. 2.945mg/L



Sample

Sample Name: HS23070546-03DF10
Sample ID:
Origin: 06_21_2023B.cal
Status Completed
Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.7587mg/L

1. Det

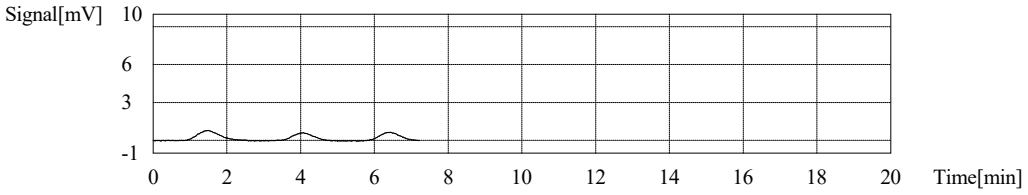
Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	3.114	0.8813mg/L	50uL	1.000		06_21_2023B.2023_06_22_09_52_42.cal	7/26/2023 6:29:01 PM
2	2.310	0.6538mg/L	50uL	1.000		06_21_2023B.2023_06_22_09_52_42.cal	7/26/2023 6:31:37 PM
3	2.618	0.7409mg/L	50uL	1.000		06_21_2023B.2023_06_22_09_52_42.cal	7/26/2023 6:34:10 PM

TOC-Control L Report

2023_07_26_002.tlx

Mean Area 2.681
Mean Conc. 0.7587mg/L



Sample

Sample Name: HS23070546-03MS
Sample ID:
Origin: 06_21_2023B.cal
Status Completed
Chk. Result

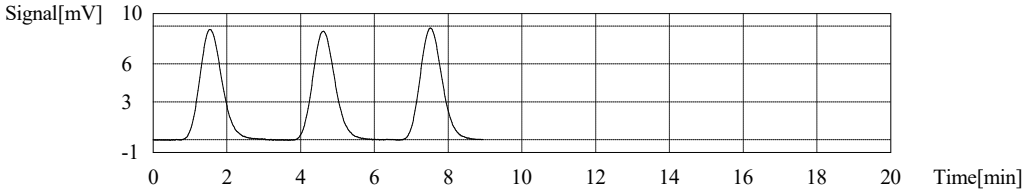
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:10.43mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	36.89	10.44mg/L	50uL	1.000		06_21_2023B.2023_06_22_09_52_42.cal	7/26/2023 6:43:58 PM
2	36.49	10.33mg/L	50uL	1.000		06_21_2023B.2023_06_22_09_52_42.cal	7/26/2023 6:47:08 PM
3	37.18	10.52mg/L	50uL	1.000		06_21_2023B.2023_06_22_09_52_42.cal	7/26/2023 6:50:21 PM

Mean Area 36.85
Mean Conc. 10.43mg/L



Sample

Sample Name: CCV
Sample ID:
Origin: 06_21_2023B.cal
Status Completed
Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:24.94mg/L

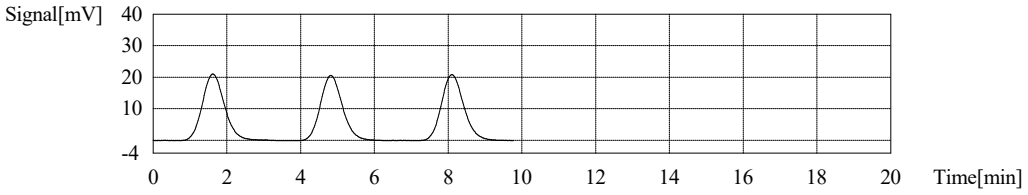
1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	88.69	25.10mg/L	50uL	1.000		06_21_2023B.2023_06_22_09_52_42.cal	7/26/2023 7:46:39 PM
2	86.61	24.51mg/L	50uL	1.000		06_21_2023B.2023_06_22_09_52_42.cal	7/26/2023 7:50:11 PM
3	89.04	25.20mg/L	50uL	1.000		06_21_2023B.2023_06_22_09_52_42.cal	7/26/2023 7:53:43 PM

TOC-Control L Report

Mean Area 88.11
Mean Conc. 24.94mg/L



Sample

Sample Name: CCB
Sample ID:
Origin: 06_21_2023B.cal
Status Completed
Chk. Result

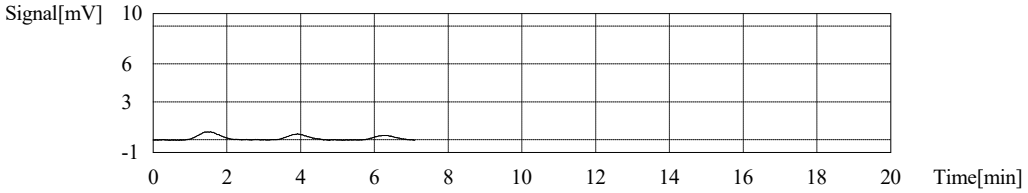
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.5538mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	2.538	0.7183mg/L	50uL	1.000		06_21_2023B.2023_06_22_09_52_42.cal	7/26/2023 8:02:53 PM
2	1.797	0.5086mg/L	50uL	1.000		06_21_2023B.2023_06_22_09_52_42.cal	7/26/2023 8:05:29 PM
3	1.535	0.4344mg/L	50uL	1.000		06_21_2023B.2023_06_22_09_52_42.cal	7/26/2023 8:08:03 PM

Mean Area 1.957
Mean Conc. 0.5538mg/L



Sample

Sample Name: CCV
Sample ID:
Origin: 06_21_2023B.cal
Status Completed
Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:24.72mg/L

1. Det

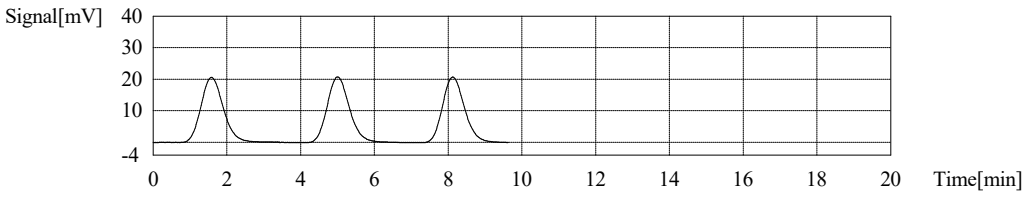
Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	87.52	24.77mg/L	50uL	1.000		06_21_2023B.2023_06_22_09_52_42.cal	7/26/2023 9:19:50 PM
2	87.58	24.79mg/L	50uL	1.000		06_21_2023B.2023_06_22_09_52_42.cal	7/26/2023 9:23:13 PM
3	86.89	24.59mg/L	50uL	1.000		06_21_2023B.2023_06_22_09_52_42.cal	7/26/2023 9:26:32 PM

TOC-Control L Report

2023_07_26_002.tlx

Mean Area 87.33
Mean Conc. 24.72mg/L



Sample

Sample Name: CCB
Sample ID:
Origin: 06_21_2023B.cal
Status Completed
Chk. Result

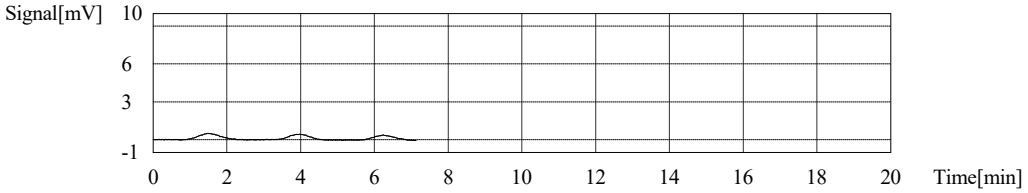
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.5025mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	2.041	0.5776mg/L	50uL	1.000		06_21_2023B.2023_06_22_09_52_42.cal	7/26/2023 9:35:44 PM
2	1.707	0.4831mg/L	50uL	1.000		06_21_2023B.2023_06_22_09_52_42.cal	7/26/2023 9:38:16 PM
3	1.579	0.4469mg/L	50uL	1.000		06_21_2023B.2023_06_22_09_52_42.cal	7/26/2023 9:40:54 PM

Mean Area 1.776
Mean Conc. 0.5025mg/L



HS23070546 ALS Middletown Level IV Sub Data Report AHH-105

ALS WO# HS23070546

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NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: PJLA 74618
State Certifications: FL E871113 , WA C999 , MD 128 , VA 460157 , WV DW 9961-C , WV 343

Analytical Results Report For **ALS Environmental-Houston**

Project AHH105|HS23070546
Workorder 3312815
Report ID 258957 on 7/24/2023

Certificate of Analysis

Enclosed are the analytical results for samples received by the laboratory on Jul 13, 2023.

The ALS Environmental laboratory in Middletown, Pennsylvania is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAP.

If you have any questions regarding this certificate of analysis, please contact Sarah Leung (Project Coordinator) at (717) 944-5541.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state requirements. The test results meet requirements of the current NELAP standards or state requirements, where applicable. For a specific list of accredited analytes, refer to the certifications section of the ALS website at www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads.

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Recipient(s):
Dayna Fisher - ALS Environmental-Houston
Jumoke Lawal - ALS Environmental-Houston
James Guin - ALS Environmental-Houston

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Sarah Leung

Sarah Leung *(ALS Digital Signature)*
Project Coordinator

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Certificate of Analysis

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Sarah Leung

Sarah Leung *(ALS Digital Signature)*
Project Coordinator

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Project AHH105|HS23070546
Workorder 3312815

Sample Summary

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collector	Collection Company
3312815001	16WW58-230711	Water	07/11/2023 07:05	07/13/2023 09:08	CBC	Collected By Client
3312815002	16WW57-230711	Water	07/11/2023 07:50	07/13/2023 09:08	CBC	Collected By Client
3312815003	16WW16-230711	Water	07/11/2023 08:45	07/13/2023 09:08	CBC	Collected By Client

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Reference

Notes

- Samples collected by ALS personnel are done so in accordance with the procedures set forth in the ALS Field Sampling Plan (20 - Field Services Sampling Plan).
- Except as qualified, Clean Water Act sample analyses are consistent with methodology requirements in 40 CFR Part 136, including but not limited to the following EPA Method reference revisions:
  EPA 300.1 Rev. 1.0-1997
  EPA 300.0 Rev. 2.1-1993
  EPA 353.2 Rev. 2.0-1993
  EPA 410.4 Rev. 1.0-1993
  EPA 420.4 Rev. 1.0-1993
  EPA 365.1 Rev. 2.0-1993
  EPA 200.7 Rev. 4.4-1994
  EPA 200.8 Rev. 5.4-1994
  EPA 245.1 Rev. 3.0-1994
- Except as qualified, Safe Drinking Water Act sample analyses are consistent with methodology requirements in 40 CFR Part 141.
- The Chain of Custody document is included as part of this report.
- All Library Search analytes should be regarded as tentative identifications based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.
- Parameters identified as "analyze immediately" require analysis within 15 minutes of collection. Any "analyze immediately" parameters not listed under the header "Field Parameters" are preformed in the laboratory and are therefore analyzed out of hold time.
- Method references listed on this report beginning with the prefix “S” followed by a method number (such as S2310B-97) refer to methods from “Standard Methods for the Examination of Water and Wastewater”.
- For microbiological analyses, the "Prepared" value is the date/time into the incubator and the "Analyzed" value is the date/time out the incubator.
- An Analysis-Prep Method Cross Reference Table is included after Analytical Results & Qualifiers section in this report.
- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.

Standard Acronyms/Flags

J	Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND) above the MDL
N	Indicates presumptive evidence of the presence of a compound
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Practical Quantitation Limit for this Project
ND	Not Detected - indicates that the analyte was Not Detected
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference
LOD	DoD Limit of Detection
LOQ	DoD Limit of Quantitation
DL	DoD Detection Limit
I	Indicates reported value is greater than or equal to the Method Detection Limit (MDL) but less than the Report Detection Limit (RDL)
(S)	Surrogate Compound
NC	Not Calculated
*	Result outside of QC limits
#	Please reference the result in the Results Section for analyte-level flags.

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Project AHH105|HS23070546
Workorder 3312815

Project Notations

Sample Notations

Lab ID	Sample ID

Result Notations

Notation Ref.	
1	Analyte was analyzed past the 48 hour holding time.
2	The QC sample type MS for method EPA 300.0 was outside the control limits for the analyte Sulfate. The % Recovery was reported as 41.8 and the control limits were 80 to 120.
3	The QC sample type MSD for method EPA 300.0 was outside the control limits for the analyte Sulfate. The % Recovery was reported as 31.1 and the control limits were 80 to 120.
4	The QC sample type MS for method EPA 300.0 was outside the control limits for the analyte Nitrate-N. The % Recovery was reported as 112 and the control limits were 88 to 111.
5	The QC sample type MSD for method EPA 300.0 was outside the control limits for the analyte Nitrate-N. The % Recovery was reported as 113 and the control limits were 88 to 111.

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Project AHH105|HS23070546
Workorder 3312815

Detected Results Summary

Client Sample ID	16WW58-230711	Collected	07/11/2023 07:05
Lab Sample ID	3312815001	Lab Receipt	07/13/2023 09:08

Compound	Result	Units	LOQ	LOD	DL	Method	Flag
WET CHEMISTRY							
Sulfate	477	mg/L	25.0	10.0	3.9	EPA 300.0	#

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Project AHH105|HS23070546
Workorder 3312815

Detected Results Summary

Client Sample ID	16WW57-230711	Collected	07/11/2023 07:50
Lab Sample ID	3312815002	Lab Receipt	07/13/2023 09:08

Compound	Result	Units	LOQ	LOD	DL	Method	Flag
WET CHEMISTRY							
Sulfate	2740	mg/L	250	100	38.5	EPA 300.0	#

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Project AHH105|HS23070546
Workorder 3312815

Detected Results Summary

Client Sample ID	16WW16-230711	Collected	07/11/2023 08:45
Lab Sample ID	3312815003	Lab Receipt	07/13/2023 09:08

Compound	Result	Units	LOQ	LOD	DL	Method	Flag
WET CHEMISTRY							
Nitrate-N	0.58J	mg/L	2.5	2.0	0.55	EPA 300.0	#
Sulfate	363	mg/L	25.0	10.0	3.9	EPA 300.0	#

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Project AHH105|HS23070546
Workorder 3312815

Results

Client Sample ID	16WW58-230711	Collected	07/11/2023 07:05
Lab Sample ID	3312815001	Lab Receipt	07/13/2023 09:08

WET CHEMISTRY

Compound	Result	Flag	Units	LOQ	LOD	DL	Method	Dilution	Analysis Date/Time	By	Cntr
Nitrate-N	2.0U	U,1	mg/L	2.5	2.0	0.55	EPA 300.0	5	07/14/2023 23:47	J1W	A
Sulfate	477		mg/L	25.0	10.0	3.9	EPA 300.0	5	07/14/2023 23:47	J1W	A

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Project AHH105|HS23070546
Workorder 3312815

Results

Client Sample ID	16WW57-230711	Collected	07/11/2023 07:50
Lab Sample ID	3312815002	Lab Receipt	07/13/2023 09:08

WET CHEMISTRY

Compound	Result	Flag	Units	LOQ	LOD	DL	Method	Dilution	Analysis Date/Time	By	Cntr
Nitrate-N	4.0U	U,1	mg/L	5.0	4.0	1.1	EPA 300.0	10	07/14/2023 23:57	J1W	A
Sulfate	2740	2,3	mg/L	250	100	38.5	EPA 300.0	50	07/20/2023 19:01	J1W	A

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Project AHH105|HS23070546
Workorder 3312815

Results

Client Sample ID	16WW16-230711	Collected	07/11/2023 08:45
Lab Sample ID	3312815003	Lab Receipt	07/13/2023 09:08

WET CHEMISTRY

Compound	Result	Flag	Units	LOQ	LOD	DL	Method	Dilution	Analysis Date/Time	By	Cntr
Nitrate-N	0.58J	J,1,4,5	mg/L	2.5	2.0	0.55	EPA 300.0	5	07/15/2023 00:08	J1W	A
Sulfate	363		mg/L	25.0	10.0	3.9	EPA 300.0	5	07/15/2023 00:08	J1W	A

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Project AHH105|HS23070546
Workorder 3312815

Sample - Method Cross Reference Table

Lab ID	Sample ID	Analysis Method	Preparation Method	Leachate Method
3312815001	16WW58-230711	EPA 300.0	N/A	
3312815002	16WW57-230711	EPA 300.0	N/A	
		EPA 300.0	N/A	
3312815003	16WW16-230711	EPA 300.0	N/A	

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QUALITY CONTROL SAMPLES

WET CHEMISTRY

QC Batch

QC Batch	1025468	Prep Method	N/A
Date	N/A	Analysis Method	EPA 300.0
Tech.			

Associated Samples

3312815001 3312815002 3312815003

Method Blank 3694830 (MB) Created on 07/14/2023 06:49 For QC Batch 1025468

RESULTS

Compound	CAS No		Result	Units	LOQ	Qualifiers
Nitrate-N	NO3	BLK	0.40U	mg/L	0.50	U
Sulfate	SO4	BLK	2.0U	mg/L	5.0	U

Lab Control Standard 3694831 (LCS) Created on 07/14/2023 06:49 For QC Batch 1025468

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Nitrate-N	NO3	LCS	5		5	99.6	88 - 111		
Sulfate	SO4	LCS	50.40		50	101	87 - 112		

Matrix Spike 3694832 (MS) 3312815003 For QC Batch 1025468

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3694833 (MSD) 3312815003 For QC Batch 1025468

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Nitrate-N	NO3	MS	3.40	0.58	2.50	112*	88 - 111		
Nitrate-N	NO3	MSD	3.40	0.58	2.50	113*	88 - 111	RPD 0.21 (Max-15)	
Sulfate	SO4	MS	385	363	25	NC	87 - 112		
Sulfate	SO4	MSD	387	363	25	NC	87 - 112	RPD 0.53 (Max-15)	

Method Blank 3694835 (MB) Created on 07/14/2023 06:49 For QC Batch 1025468

RESULTS

Compound	CAS No		Result	Units	LOQ	Qualifiers
Nitrate-N	NO3	BLK	0.40U	mg/L	0.50	U
Sulfate	SO4	BLK	2.0U	mg/L	5.0	U

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Project AHH105|HS23070546
Workorder 3312815

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

QC Batch

QC Batch	1027641	Prep Method	N/A
Date	N/A	Analysis Method	EPA 300.0
Tech.			

Associated Samples

3312815002

Method Blank 3697126 (MB) Created on 07/20/2023 06:52 For QC Batch 1027641

RESULTS

Compound	CAS No		Result	Units	LOQ	Qualifiers
Sulfate	SO4	BLK	2.0U	mg/L	5.0	U

Lab Control Standard 3697127 (LCS) Created on 07/20/2023 06:52 For QC Batch 1027641

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Sulfate	SO4	LCS	50.30		50	101	87 - 112		

Matrix Spike 3697128 (MS) 3312815002 For QC Batch 1027641

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3697129 (MSD) 3312815002 For QC Batch 1027641

RESULTS

Compound	CAS No		Result (mg/L)	Orig. Result (mg/L)	Spk Added (mg/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Sulfate	SO4	MS	2840	2740	250	NC	87 - 112		
Sulfate	SO4	MSD	2810	2740	250	NC	87 - 112	RPD 0.95 (Max-15)	

Method Blank 3697131 (MB) Created on 07/20/2023 06:52 For QC Batch 1027641

RESULTS

Compound	CAS No		Result	Units	LOQ	Qualifiers
Sulfate	SO4	BLK	2.0U	mg/L	5.0	U

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Project AHH105|HS23070546
Workorder 3312815

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Lab ID	Sample ID	Preparation Method	Prep Batch	Prep Date/Time	By	Analysis Method	Anly Batch
3312815001	16WW58-230711	N/A	N/A	N/A		EPA 300.0	1025468
3312815002	16WW57-230711	N/A	N/A	N/A		EPA 300.0	1027641
		N/A	N/A	N/A		EPA 300.0	1025468
3312815003	16WW16-230711	N/A	N/A	N/A		EPA 300.0	1025468

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3312815
Logged By: KSB
PM: SSL

Pg. 1 of 2

10450 Stancliff Rd, Ste 210
Houston, TX 77099
T: +1 281 530 5656
F: +1 281 530 5887
www.alsglobal.com

Subcontract Chain of Custody

SAMPLING STATE: Dept of Defense **COC ID:** 22343

SUBCONTRACT TO:

ALS
301 Fulling Mill Road
Middletown, PA 17057
Phone: +1 717 702 2244

SHORT HOLDING TIME

CUSTOMER INFORMATION:

Company:	ALS Houston
Contact:	James Guin
Address:	10450 Stancliff Rd, Ste 210
Phone:	+1 281 530 5656
Email:	James.Guin@alsglobal.com
Alternate Contact:	Jumoke M. Lawal
Email:	jumoke.lawal@alsglobal.com

INVOICE INFORMATION:

Company:	ALS Houston
Contact:	Accounts Payable
Address:	10450 Stancliff Rd, Ste 210
Phone:	+1 281 530 5656
Reference:	HS23070546
TSR:	Ron Martino

	LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	COLLECT DATE
	ANALYSIS REQUESTED			DUE DATE
Qty - 1 1.	**HS23070546-01**	**16WW58-230711**	**Groundwater**	**11 Jul 2023 07:05**
	Sub Nitrate and Sulfate to ALS Middletown			26 Jul 2023
Qty - 1 2.	**HS23070546-02**	**16WW57-230711**	**Groundwater**	**11 Jul 2023 07:50**
	Sub Nitrate and Sulfate to ALS Middletown			26 Jul 2023
Qty - 3 3.	**HS23070546-03**	**16WW16-230711**	**Groundwater**	**11 Jul 2023 08:45**
	Sub Nitrate and Sulfate to ALS Middletown			26 Jul 2023

Comments: Please analyze for the analysis listed above.
Send report to the emails shown above.
HS23070546-03 = ms/msd

QC Level: DOD IV (DoD Data Package)

Relinquished By: _____ Date/Time: 7/12/23 1800

Received By: FEDEX → DD/ALS Date/Time: 7/13/23 0908

Cooler ID(s): _____ Temperature(s): _____

Pg. 2 of 2

3312815

Temp By:	WO Temp (°C)	Therm ID
DD	2°	573

DD

Receipt Info Completed By:		
Cooler Custody Seal Intact	Y N NA	
Sample Custody Seal Intact	Y N NA	
Received on Ice	Y N NA	
Cooler & Samples Intact	Y N	
Correct Containers Provided	Y N	
Sample Label/COC Agree	Y N	
Adequate Sample Volumes	Y N	
CR6 Samples Filtered	Y N NA	
OP Samples Filtered	Y N NA	
VOA Trip Blank	Y N NA	
NI≤ 4 Days?	Y N	
Rad Screen (uCi)	—	
Courier/Tracking #:	6230 3002 5770	
SDWA Compliance	Y N	
PWSID		
WV Containers 0-6°C	Y N NA	

Case Narrative

Case Narrative
AHH-105
(3312815)

Sample Management

This report contains the results of the analysis of three (3) water samples collected on July 11, 2023. Analytical results and quality control information are summarized in this data package.

Sample Receipt

The samples arrived at ALS - Middletown via courier on July 13, 2023. Upon receipt, the samples were inspected and compared to the Chain of Custody. Sample temperature was documented on the enclosed Chain of Custody. The samples were received intact and properly preserved, unless noted on the enclosed Certificate of Analysis and/or Chain of Custody.

Qualifier Symbol Definitions:

U = Qualifier indicates that the analyte was not detected above the LOD.
J = Qualifier indicates that the analyte value is between the DL and the LOQ.
B = Qualifier indicates that the analyte was detected in the blank.
E = Qualifier indicates that the analyte result exceeds the calibration range.
P = Qualifier indicates that the RPD between the two analytical columns is > 40%.
NSC = Qualifier indicates that spike recoveries were not calculated based on the spiking concentration.

Result Symbol Definitions:

DL = The smallest analyte concentration that can be demonstrated to be different from zero or a blank concentration at the 99% level of confidence.
LOD = The smallest analyte concentration that must be present in a sample in order to be detected at a high level of confidence.
LOQ = The lowest concentration that produces a quantitative result within specified limits of precision or bias.

Manual Integration Symbol Definitions

I = Peak was not integrated properly by chromatographic software. This may be due to baseline irregularities resulting from sample matrix, elevated baseline, or incorrect integration by software on a sample. Integration was adjusted by operator to ensure proper quantitation.
H = The incorrect peak was identified or the chromatographic software did not identify an analyte peak. Operator manually identified the correct peak as the appropriate target analyte. This flag is automatically assigned by the Target software.
SP = Peak was erroneously split. The operator manually integrated the peak to include all the area of the analyte peak to ensure proper quantitation.
MP = Two peaks were erroneously merged. This may include two discrete peaks separated by a distinguishable valley or a larger peak with a clearly identifiable shoulder. Operator manually split peaks.
AB = Integration of group of adjacent peaks did not follow baseline. Operator manually assigned integration to follow baseline.
NP = Negative spike in the baseline resulted in overstating area of analyte peaks. Analyte peaks were re-assigned.
AC = Integration of aggregate or multi-component analyte to include area off all components of the analyte (i.e., toxaphene).

Manual Integrations

If manual integrations were performed, they are indicated on the raw data quantification files for each method.

Anions by EPA 300.0

Sample handling. Three (3) water samples were analyzed for anions by EPA Method 300.0. The samples were analyzed within the method recommended holding time for the analyte sulfate. The samples were not analyzed within the holding time for the analyte nitrate.

Calibration. An initial calibration was properly established. The calibration was verified by initial calibration verification standards and continuing calibration verification standards on the day of analysis. The recoveries were within QC limits.

Blanks. Initial and continuing blanks were analyzed with the samples. Anions were not detected above the reporting limits in the blanks.

Laboratory Control Samples. Laboratory control samples were analyzed initially and every 20 samples. Recoveries were within the QC limits.

Spikes. Matrix spike and matrix spike duplicate analyses were performed on sample 3312815002 (16WW57-230711). The spike recoveries were not within the QC limits. The relative percent difference between the spikes was within the QC limit.

Matrix spike and matrix spike duplicate analyses were performed on sample 3312815003 (16WW16-230711). The spike recoveries were within the QC limits for the analyte sulfate. The spike recoveries were not within the QC limits for the analyte nitrate. The relative percent difference between the spikes was within the QC limit.

Anions By Method 300.0 Summary Forms

16WW57-230711
Sample Description

Form 3A
Matrix Spike and Matrix Spike Duplicate Recovery Summary

Analysis Method: EPA 300.0
Matrix (soil/water): Water

SDG No.: AHH105
Units: mg/L
Lab Sample ID: 3312815002
Lab MS Sample ID: 3697128
Lab MSD Sample ID: 3697129

Analyte	Spike Added	Sample Concentration	MS Concentration	MS Recovery (%)	(1)	Acceptable Limits (%)
Sulfate	250	2740	2840	41.8	*	87 - 112

Analyte	Spike Added	MSD Concentration	MSD Recovery (%)	(1)	Acceptable Limits (%)	RPD (%)	(1)	Acc. Lim. (%)
Sulfate	250	2810	31.1	*	87 - 112	0.95		15

(1) The following qualifiers are used:

* : Values outside of acceptable limits
D : Spikes diluted out

Comments:

16WW16-230711
Sample Description

Form 3A
Matrix Spike and Matrix Spike Duplicate Recovery Summary

Analysis Method: EPA 300.0
Matrix (soil/water): Water

SDG No.: AHH105
Units: mg/L
Lab Sample ID: 3312815003
Lab MS Sample ID: 3694832
Lab MSD Sample ID: 3694833

Analyte	Spike Added	Sample Concentration	MS Concentration	MS Recovery (%)	(1)	Acceptable Limits (%)
Nitrate-N	2.5	0.58	3.4	112	*	88 - 111
Sulfate	25	363	385	87.4		87 - 112

Analyte	Spike Added	MSD Concentration	MSD Recovery (%)	(1)	Acceptable Limits (%)	RPD (%)	(1)	Acc. Lim. (%)
Nitrate-N	2.5	3.4	113	*	88 - 111	0.21		15
Sulfate	25	387	95.6		87 - 112	0.53		15

(1) The following qualifiers are used:

* : Values outside of acceptable limits
D : Spikes diluted out

Comments:

Form 4B
Inorganic Blank Summary

Analysis Method: EPA 300.0
Instrument: IC-12

SDG No.: AHH105

Sample ID	Analyte	Type	Matrix	Analyzed	Result	Q (1)	Units
3694830	Nitrate-N	MB	QC-Water	07/14/2023 23:26	0.40	U	mg/L
3694830	Sulfate	MB	QC-Water	07/14/2023 23:26	2.0	U	mg/L
3694835	Nitrate-N	MB	QC-Water	07/15/2023 00:49	0.40	U	mg/L
3694835	Sulfate	MB	QC-Water	07/15/2023 00:49	2.0	U	mg/L

(1) The following qualifiers are used:

U: The analyte concentration is less than the reporting limit listed
J: The analyte concentration is less than the reporting limit but greater than the method detection limit

Comments:

Form 4B
Inorganic Blank Summary

Analysis Method: EPA 300.0
Instrument: IC-12

SDG No.: AHH105

Sample ID	Analyte	Type	Matrix	Analyzed	Result	Q (1)	Units
3697126	Nitrate-N	MB	QC-Water	07/20/2023 18:40	0.40	U	mg/L
3697126	Sulfate	MB	QC-Water	07/20/2023 18:40	2.0	U	mg/L
3697131	Nitrate-N	MB	QC-Water	07/20/2023 19:43	0.40	U	mg/L
3697131	Sulfate	MB	QC-Water	07/20/2023 19:43	2.0	U	mg/L

(1) The following qualifiers are used:

U: The analyte concentration is less than the reporting limit listed
J: The analyte concentration is less than the reporting limit but greater than the method detection limit

Comments:

Form 6B
Inorganic Initial and Continuing Calibration Verification Summary

Analysis Method: EPA 300.0 SDG No. AHH105

Instrument ID: IC-12 Units: mg/L

Sample ID	Analyte	Type	Analyzed	True Conc.	Conc. Recovered	Recovery (%)	(1)	Acc. Limit (%)
3694834	Nitrate-N	CCVL	07/15/2023 00:39	5	5.1	102		90 - 110
3694834	Sulfate	CCVL	07/15/2023 00:39	50	51.5	103		90 - 110

(1) The following qualifiers are used:
* : Values outside of acceptable limits

Comments:

Form 6B
Inorganic Initial and Continuing Calibration Verification Summary

Analysis Method: EPA 300.0 SDG No. AHH105

Instrument ID: IC-12 Units: mg/L

Sample ID	Analyte	Type	Analyzed	True Conc.	Conc. Recovered	Recovery (%)	(1)	Acc. Limit (%)
3697130	Nitrate-N	CCVL	07/20/2023 19:33	5	5.0	99.4		90 - 110
3697130	Sulfate	CCVL	07/20/2023 19:33	50	50.9	102		90 - 110

(1) The following qualifiers are used:
* : Values outside of acceptable limits

Comments:

Form 8B
Laboratory Control Sample (LCS) Recovery Summary

Analysis Method: EPA 300.0 SDG No.: AHH105

Matrix (soil/water): QC-Water Instrument ID: IC-12

Units: mg/L

Sample ID	Analyte	Type	Analyzed	True Conc.	Conc. Recovered	Recovery (%)	(1)	Acc. Limit (%)
3694831	Sulfate	LCS	07/14/2023 23:36	50	50.4	101		87 - 112
3694831	Nitrate-N	LCS	07/14/2023 23:36	5	5.0	99.6		88 - 111

(1) The following qualifiers are used:
* : Values outside of acceptable limits

Comments:

Form 8B
Laboratory Control Sample (LCS) Recovery Summary

Analysis Method: EPA 300.0 SDG No.: AHH105

Matrix (soil/water): QC-Water Instrument ID: IC-12

Units: mg/L

Sample ID	Analyte	Type	Analyzed	True Conc.	Conc. Recovered	Recovery (%)	(1)	Acc. Limit (%)
3697127	Sulfate	LCS	07/20/2023 18:51	50	50.3	101		87 - 112
3697127	Nitrate-N	LCS	07/20/2023 18:51	5	4.9	98.1		88 - 111

(1) The following qualifiers are used:
* : Values outside of acceptable limits

Comments:

Anions By Method 300.0
Raw Data

ALS Middletown

Analytical Review Checklist

Analytical Seq:	230419IC 12 Cal	**Analytical Batch:**	284283	**Primary Reviewer:**	GMM
Method:	EPA 300.0 Anions-IC			**Primary Date Reviewed:**	07/18/2023
Instrument ID:	IC-12	**Analytical Batch 2:**	284284	**Secondary Reviewer:**	GJB
Analyst:	J1W	**Analytical Batch 3:**	284285	**Secondary Date Reviewed:**	07/19/2023
SOP:	04-ANION				
Revision:	09/16/2022				

Seq	Section Description	Checklist Item	Criteria	Meets Method Criteria	If no, steps taken to address failure
1	A Final Reports	Generated logbook report PDF and saved with raw data?		Y	
2		Generated checklist report PDF and saved with raw data?		Y	
3		Raw data PDF saved to instrument/batch folder?		Y	
4		Generated exception report and saved with raw data?		NA	
5		Associated Initial Calibration included with the raw data? Included previous days ICALs?		Y	
6		Generated Standards/Reagents/Misc.List and saved with raw data?		Y	
1	B General Information	Set Up Analyst		J1W	
2		DoD samples included in batch (Y/N)		Y	
3		SDWA samples include in batch (Y/N)		Y	
1	C Batch QC Review	MB meets criteria (Y/N)		Y	
2		LCS meets criteria (Y/N)		Y	
3		Analytical Batch Calibration meets criteria (Y/N)	99.50%	Y	
4		CCVs meet criteria (Y/N)		Y	
1	D Batch Sample Review	Integrated Quality Checked		Y	
2		Sample MS/MSD recoveries meets criteria (Y/N)		Y	
3		Sample MSD/Duplicate RPD meets criteria (Y/N)		Y	
4		Sample Holding Times met (Y/N)		Y	
5		Sample Correlational Relationships meet criteria (Y/N/NA)		NA	
6		Sample Historical Relationships meet criteria (Y/N/NA)		NA	
1	E LIMS Transfer	Data Autoposted (Y/N)		Y	
1	F Key Notes	SDWA samples must be run within holding time			
2		SDWA samples may not be qualified with failures			
3		SDWA samples must be rerun within holding time			
1	G Key Notes 2	SDWA MCL Limits			
2		Fluoride 2.00 mg/L If SDWA samples have results greater than the listed MCL,			
3		Chloride 250 mg/L please see SDWA reporting person immediately. All MCL			
4		Nitrite-N 1.00 mg/L violations must be reported to the PWS in less than 1 hour.			
5		Nitrate-N 10.0 mg/L Please refer to 99-DEP NOT REP with questions.			
6		Sulfate 250 mg/L			

ALS Middletown

Standards/Reagents/Misc. List

Analytical Seq:	230419IC 12 Cal	**Analytical Batch:**	284283	**Primary Reviewer:**	GMM
Method:	EPA 300.0 Anions-IC			**Primary Date Reviewed:**	07/18/2023
Instrument ID:	IC-12	**Analytical Batch 2:**	284284	**Secondary Reviewer:**	GJB
Analyst:	J1W	**Analytical Batch 3:**	284285	**Secondary Date Reviewed:**	07/19/2023
SOP:	04-ANION				
Revision:	09/16/2022				

Seq	Section Description	Standard/Reagent/Miscellaneous Item	Reference ID	Additional Notes
1	H **Standards**	Spike Sol	221214009	
2		CCVL	NA	
3		CCVH	NA	
4		LCS	WS230714006	
5		Calibration Points	WS230419022-028	
1	I **Reagents**	Instrument Eluent	WR230713006	
2		Working Eluent	DI Water	
3		Glass Lot #	230301002	
1	J **Pipettes**	Pipette 1	04-141	
2		Pipette 2	04-143	
3		Pipette 3	04-151	
4		Pipette 4	N/A	
5		Pipette 5	04-163	
1	K **Filters**	Syringe Filter Lot#	230406002	
2		Ultrafiltration Membrane	NA	

MagIC Net

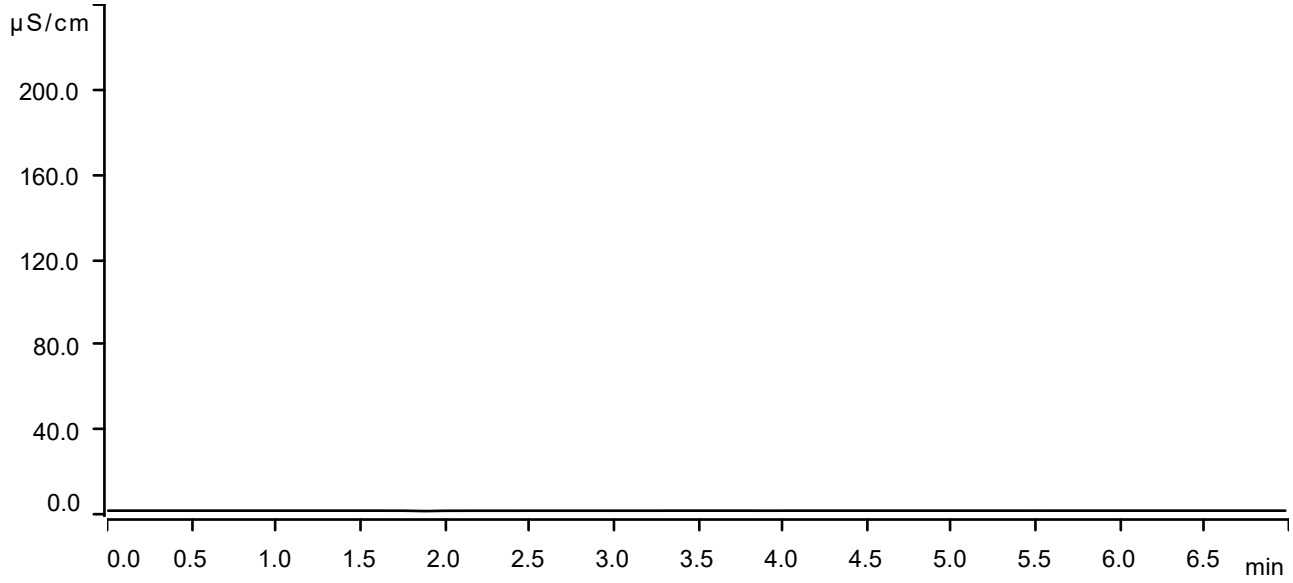
2023-04-24 9:59:06

Injection Time **2023-04-19 15:00:44 UTC-4**

Sample data

Ident	S1	
Sample type	Standard 1	
Position	138	
Injections	1	
Injection counter	1	
Volume	20	µL
Dilution	1	
Sample amount	1	
Comments (Info 2)	0.0	
Analyst (Info 3)	J1W	
Instrument (Info 4)	IC-12	

Anions



F Concentration on Column	invalid	ppm
Cl Concentration on Column	invalid	ppm
NO2 Concentration on Column	invalid	ppm
Br Concentration on Column	invalid	ppm
NO3 Concentration on Column	invalid	ppm
SO4 Concentration on Column	invalid	ppm

ALS

MagIC Net

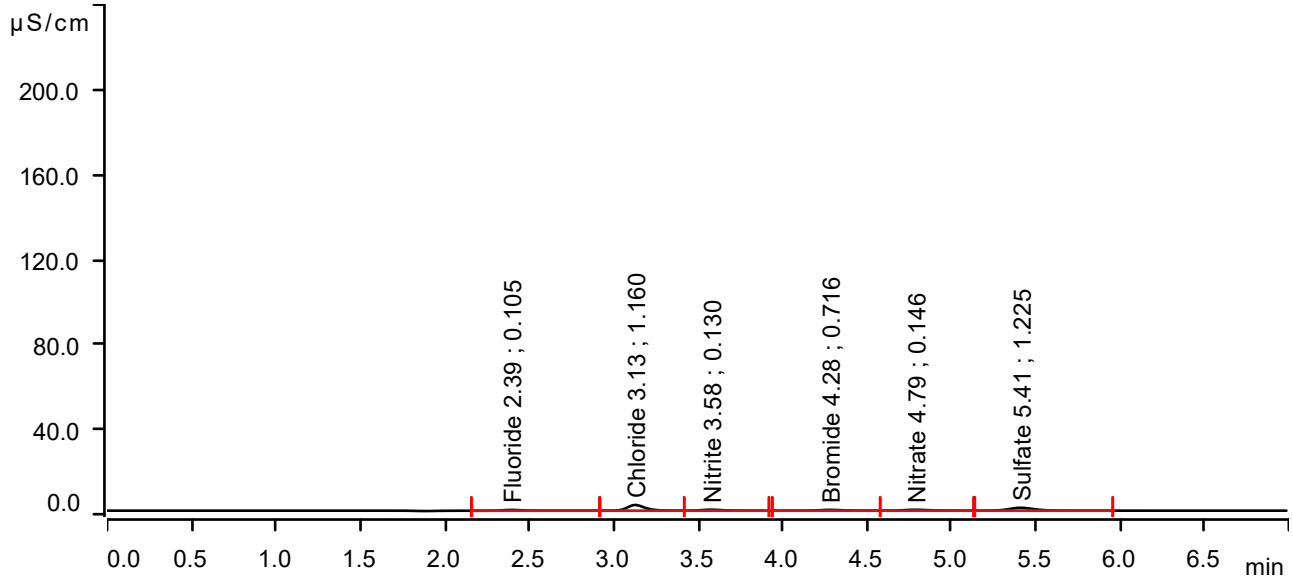
2023-04-24 9:59:06

Injection Time **2023-04-19 15:11:12 UTC-4**

Sample data

Ident	S2	
Sample type	Standard 2	
Position	139	
Injections	1	
Injection counter	1	
Volume	20	µL
Dilution	1	
Sample amount	1	
Comments (Info 2)	0.1	
Analyst (Info 3)	J1W	
Instrument (Info 4)	IC-12	

Anions



Peak number	Component name	Retention time	Area	Height	Concentration
		min	(µS/cm) x min	µS/cm	ppm
1	Fluoride	2.393	0.0498	0.360	0.105
2	Chloride	3.128	0.3280	2.673	1.160
3	Nitrite	3.577	0.0645	0.441	0.130
4	Bromide	4.280	0.0579	0.370	0.716
5	Nitrate	4.787	0.0693	0.415	0.146
6	Sulfate	5.412	0.2342	1.347	1.225

F Concentration on Column	0.105	ppm
Cl Concentration on Column	1.160	ppm
NO2 Concentration on Column	0.130	ppm
Br Concentration on Column	0.716	ppm
NO3 Concentration on Column	0.146	ppm
SO4 Concentration on Column	1.225	ppm

MagIC Net

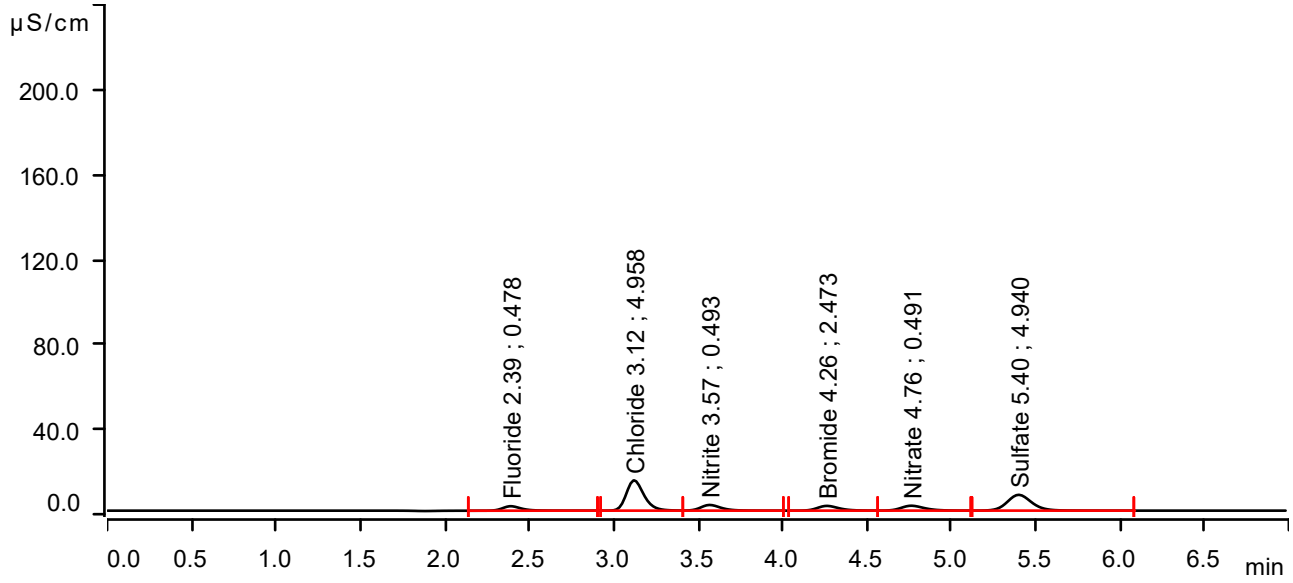
2023-04-24 9:59:07

Injection Time **2023-04-19 15:21:41 UTC-4**

Sample data

Ident	S3	
Sample type	Standard 3	
Position	140	
Injections	1	
Injection counter	1	
Volume	20	µL
Dilution	1	
Sample amount	1	
Comments (Info 2)	0.5	
Analyst (Info 3)	J1W	
Instrument (Info 4)	IC-12	

Anions



Peak number	Component name	Retention time	Area	Height	Concentration
		min	(µS/cm) x min	µS/cm	ppm
1	Fluoride	2.392	0.2728	2.107	0.478
2	Chloride	3.122	1.7396	14.248	4.958
3	Nitrite	3.568	0.3760	2.675	0.493
4	Bromide	4.263	0.3320	2.227	2.473
5	Nitrate	4.763	0.3704	2.299	0.491
6	Sulfate	5.398	1.2506	7.423	4.940

F Concentration on Column	0.478	ppm
Cl Concentration on Column	4.958	ppm
NO2 Concentration on Column	0.493	ppm
Br Concentration on Column	2.473	ppm
NO3 Concentration on Column	0.491	ppm
SO4 Concentration on Column	4.940	ppm

ALS

MagIC Net

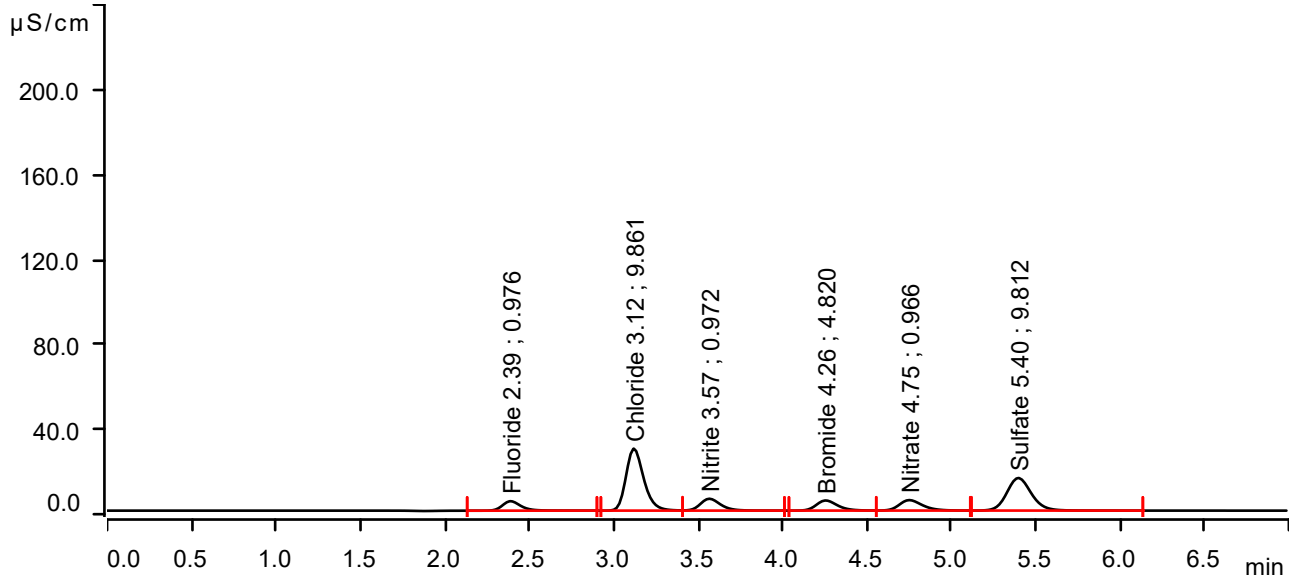
2023-04-24 9:59:08

Injection Time **2023-04-19 15:32:09 UTC-4**

Sample data

Ident	S4	
Sample type	Standard 4	
Position	141	
Injections	1	
Injection counter	1	
Volume	20	µL
Dilution	1	
Sample amount	1	
Comments (Info 2)	1.0	
Analyst (Info 3)	J1W	
Instrument (Info 4)	IC-12	

Anions



Peak number	Component name	Retention time	Area	Height	Concentration
		min	(µS/cm) x min	µS/cm	ppm
1	Fluoride	2.390	0.5684	4.454	0.976
2	Chloride	3.120	3.5606	29.156	9.861
3	Nitrite	3.567	0.7827	5.579	0.972
4	Bromide	4.255	0.6991	4.756	4.820
5	Nitrate	4.750	0.7871	4.924	0.966
6	Sulfate	5.397	2.5811	15.310	9.812

F Concentration on Column	0.976	ppm
Cl Concentration on Column	9.861	ppm
NO2 Concentration on Column	0.972	ppm
Br Concentration on Column	4.820	ppm
NO3 Concentration on Column	0.966	ppm
SO4 Concentration on Column	9.812	ppm

MagIC Net

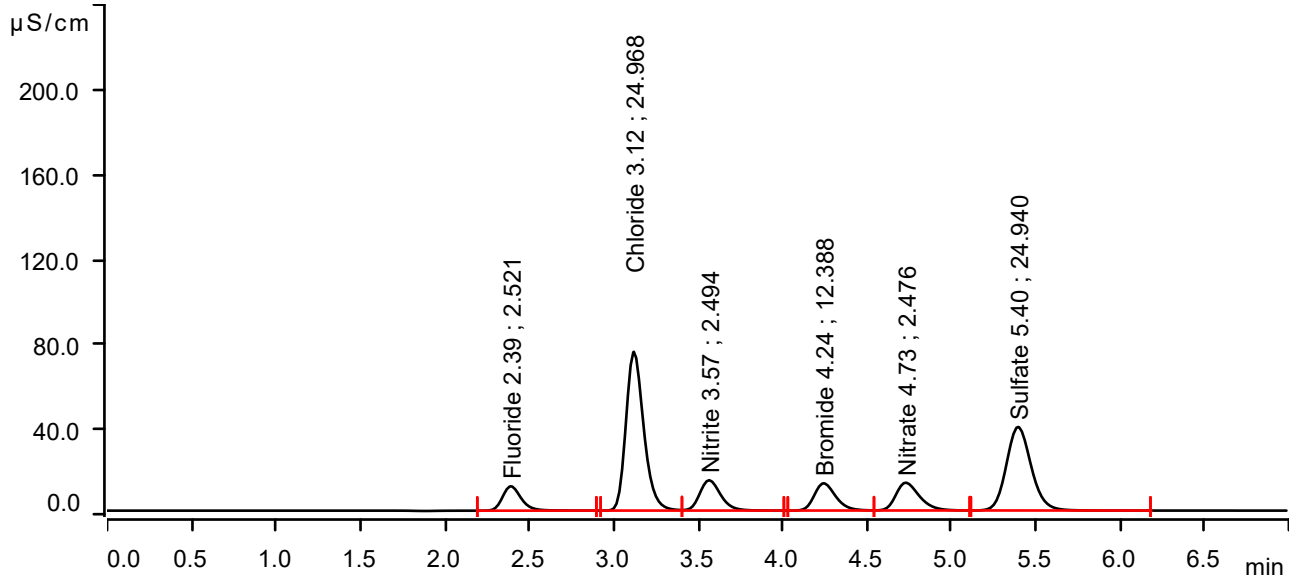
2023-04-24 9:59:10

Injection Time **2023-04-19 15:42:36 UTC-4**

Sample data

Ident	S5
Sample type	Standard 5
Position	142
Injections	1
Injection counter	1
Volume	20 µL
Dilution	1
Sample amount	1
Comments (Info 2)	2.5
Analyst (Info 3)	J1W
Instrument (Info 4)	IC-12

Anions



Peak number	Component name	Retention time	Area	Height	Concentration
		min	(µS/cm) x min	µS/cm	ppm
1	Fluoride	2.392	1.4721	11.460	2.521
2	Chloride	3.120	9.1638	74.725	24.968
3	Nitrite	3.565	2.0545	14.257	2.494
4	Bromide	4.243	1.8912	12.810	12.388
5	Nitrate	4.730	2.1209	13.068	2.476
6	Sulfate	5.395	6.6971	39.308	24.940

F Concentration on Column	2.521	ppm
Cl Concentration on Column	24.968	ppm
NO2 Concentration on Column	2.494	ppm
Br Concentration on Column	12.388	ppm
NO3 Concentration on Column	2.476	ppm
SO4 Concentration on Column	24.940	ppm

MagIC Net

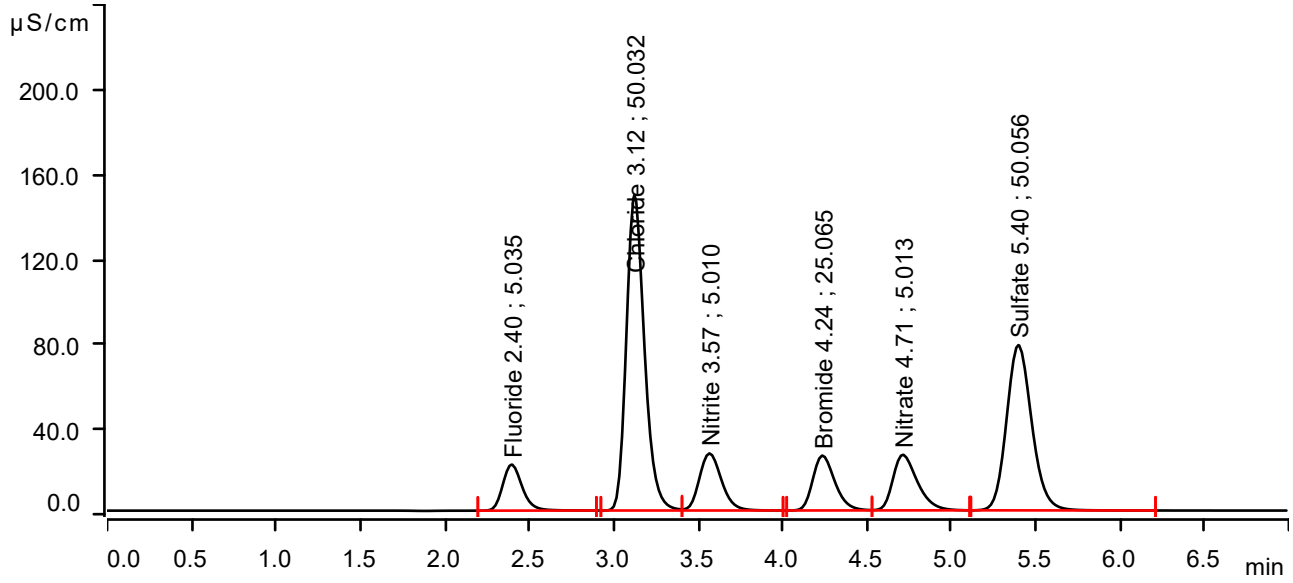
2023-04-24 9:59:11

Injection Time **2023-04-19 15:53:04 UTC-4**

Sample data

Ident	S6
Sample type	Standard 6
Position	143
Injections	1
Injection counter	1
Volume	20 µL
Dilution	1
Sample amount	1
Comments (Info 2)	5.0
Analyst (Info 3)	J1W
Instrument (Info 4)	IC-12

Anions



Peak number	Component name	Retention time min	Area (µS/cm) x min	Height µS/cm	Concentration ppm
1	Fluoride	2.397	2.8974	21.653	5.035
2	Chloride	3.123	18.4341	148.435	50.032
3	Nitrite	3.568	4.0797	26.837	5.010
4	Bromide	4.237	3.9158	25.795	25.065
5	Nitrate	4.713	4.3947	26.141	5.013
6	Sulfate	5.397	13.4791	77.758	50.056

F Concentration on Column	5.035	ppm
Cl Concentration on Column	50.032	ppm
NO2 Concentration on Column	5.010	ppm
Br Concentration on Column	25.065	ppm
NO3 Concentration on Column	5.013	ppm
SO4 Concentration on Column	50.056	ppm

ALS

MagIC Net

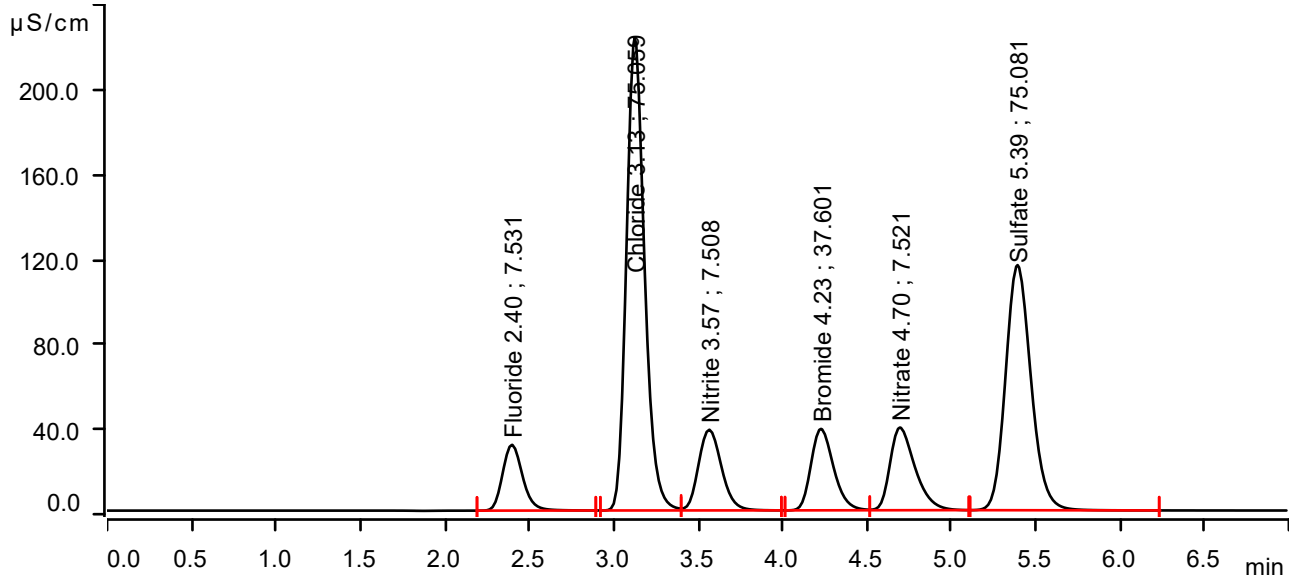
2023-04-24 9:59:12

Injection Time **2023-04-19 16:03:30 UTC-4**

Sample data

Ident	S7
Sample type	Standard 7
Position	144
Injections	1
Injection counter	1
Volume	20 µL
Dilution	1
Sample amount	1
Comments (Info 2)	7.5
Analyst (Info 3)	J1W
Instrument (Info 4)	IC-12

Anions



Peak number	Component name	Retention time	Area	Height	Concentration
		min	(µS/cm) x min	µS/cm	ppm
1	Fluoride	2.398	4.2585	30.947	7.531
2	Chloride	3.125	27.6589	222.593	75.059
3	Nitrite	3.567	5.9953	37.948	7.508
4	Bromide	4.228	5.9526	38.335	37.601
5	Nitrate	4.695	6.6855	38.916	7.521
6	Sulfate	5.392	20.1718	115.342	75.081

F Concentration on Column	7.531	ppm
Cl Concentration on Column	75.059	ppm
NO2 Concentration on Column	7.508	ppm
Br Concentration on Column	37.601	ppm
NO3 Concentration on Column	7.521	ppm
SO4 Concentration on Column	75.081	ppm

MagIC Net

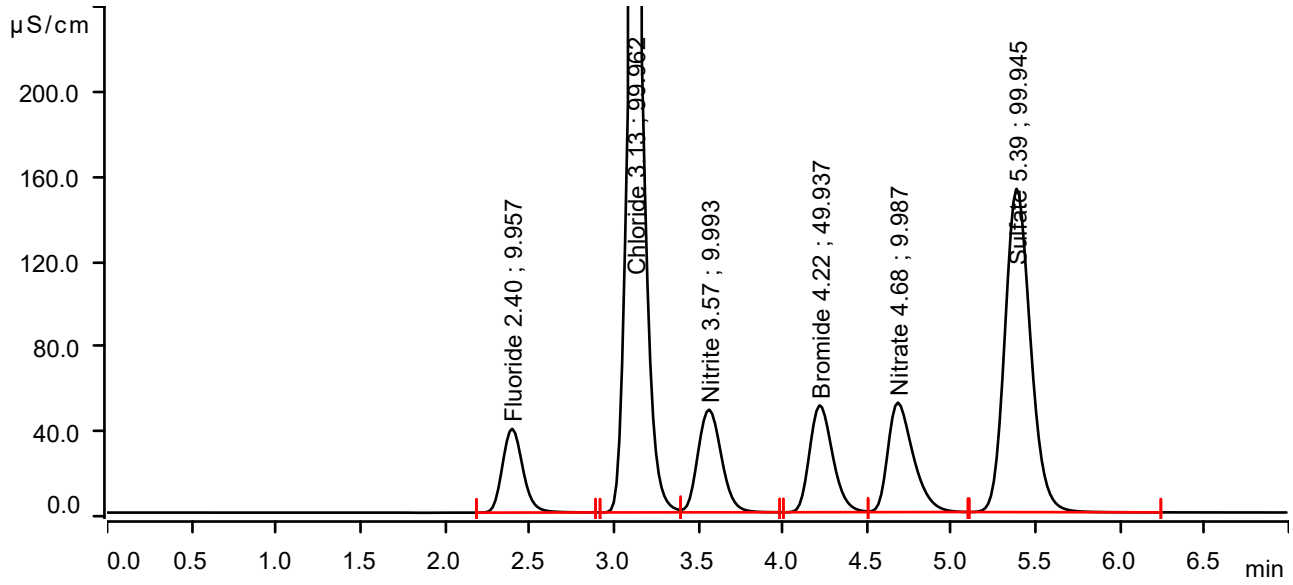
2023-04-24 9:59:13

Injection Time **2023-04-19 16:13:56 UTC-4**

Sample data

Ident	S8
Sample type	Standard 8
Position	145
Injections	1
Injection counter	1
Volume	20 µL
Dilution	1
Sample amount	1
Comments (Info 2)	10.0
Analyst (Info 3)	J1W
Instrument (Info 4)	IC-12

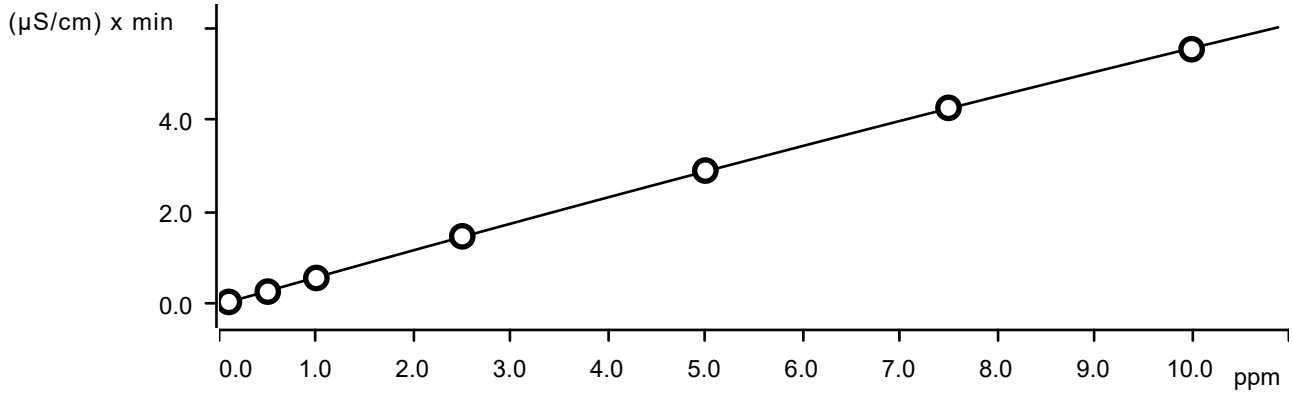
Anions



Peak number	Component name	Retention time	Area	Height	Concentration
		min	(µS/cm) x min	µS/cm	ppm
1	Fluoride	2.398	5.5289	39.378	9.957
2	Chloride	3.128	36.8067	296.445	99.962
3	Nitrite	3.565	7.8090	48.264	9.993
4	Bromide	4.222	7.9902	50.241	49.937
5	Nitrate	4.683	8.9773	51.492	9.987
6	Sulfate	5.387	26.7578	152.075	99.945

F Concentration on Column	9.957	ppm
Cl Concentration on Column	99.962	ppm
NO2 Concentration on Column	9.993	ppm
Br Concentration on Column	49.937	ppm
NO3 Concentration on Column	9.987	ppm
SO4 Concentration on Column	99.945	ppm

Fluoride (Anions)



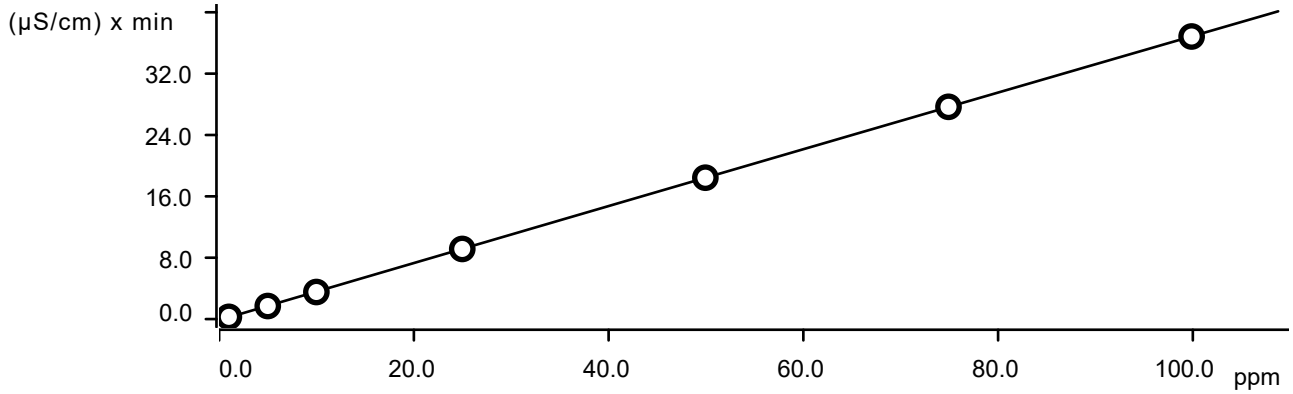
Function: . . . . . *A = - 0.0130687 + 0.0300034× Q - 1.09122E-5× Q²*

Relative standard deviation . . . . . *0.950858 %*

Correlation coefficient *0.999969*

Sample type	Index	Conc.	Volume	Dilution	Sample amount	Area	Ident	Date
Standard 1	1	0.000	20.0	1.0	1.0	n. d.	S1	2023-04-19 15:00:44 UTC-4
Standard 2	1	0.100	20.0	1.0	1.0	0.050	S2	2023-04-19 15:11:12 UTC-4
Standard 3	1	0.500	20.0	1.0	1.0	0.273	S3	2023-04-19 15:21:41 UTC-4
Standard 4	1	1.000	20.0	1.0	1.0	0.568	S4	2023-04-19 15:32:09 UTC-4
Standard 5	1	2.500	20.0	1.0	1.0	1.472	S5	2023-04-19 15:42:36 UTC-4
Standard 6	1	5.000	20.0	1.0	1.0	2.897	S6	2023-04-19 15:53:04 UTC-4
Standard 7	1	7.500	20.0	1.0	1.0	4.259	S7	2023-04-19 16:03:30 UTC-4
Standard 8	1	10.000	20.0	1.0	1.0	5.529	S8	2023-04-19 16:13:56 UTC-4

Chloride (Anions)



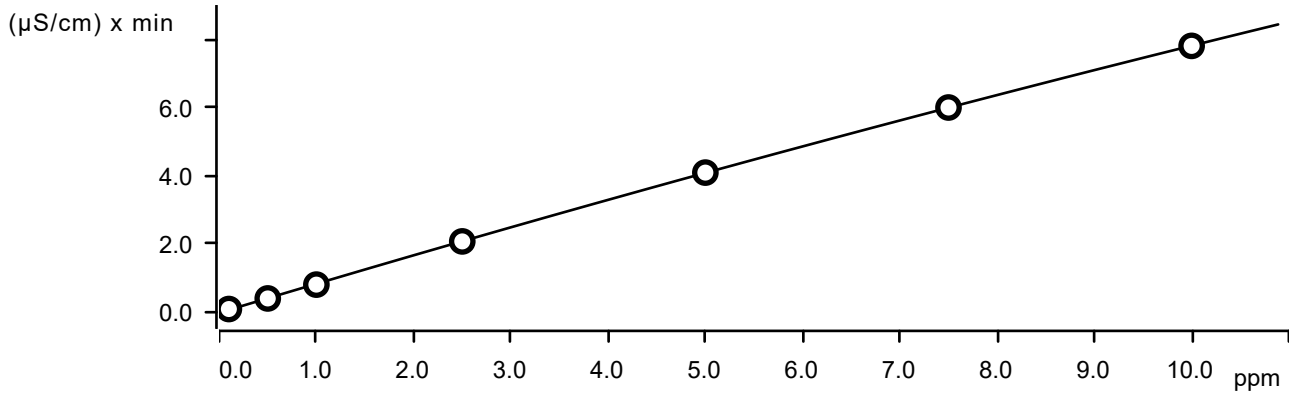
Function: . . . . . *A = - 0.103050 + 0.0185890× Q - 6.35953E-8× Q²*

Relative standard deviation . . . . . *0.307303 %*

Correlation coefficient *0.999997*

Sample type	Index	Conc.	Volume	Dilution	Sample amount	Area	Ident	Date
Standard 1	1	0.000	20.0	1.0	1.0	n. d.	S1	2023-04-19 15:00:44 UTC-4
Standard 2	1	1.000	20.0	1.0	1.0	0.328	S2	2023-04-19 15:11:12 UTC-4
Standard 3	1	5.000	20.0	1.0	1.0	1.740	S3	2023-04-19 15:21:41 UTC-4
Standard 4	1	10.000	20.0	1.0	1.0	3.561	S4	2023-04-19 15:32:09 UTC-4
Standard 5	1	25.000	20.0	1.0	1.0	9.164	S5	2023-04-19 15:42:36 UTC-4
Standard 6	1	50.000	20.0	1.0	1.0	18.434	S6	2023-04-19 15:53:04 UTC-4
Standard 7	1	75.000	20.0	1.0	1.0	27.659	S7	2023-04-19 16:03:30 UTC-4
Standard 8	1	100.000	20.0	1.0	1.0	36.807	S8	2023-04-19 16:13:56 UTC-4

Nitrite (Anions)



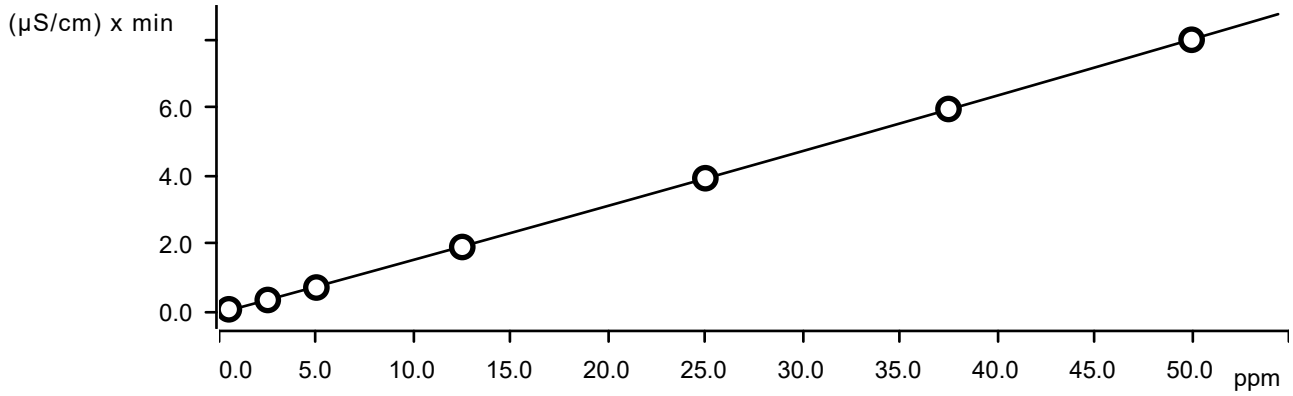
Function: . . . . . *A = - 0.0470657 + 0.0430686× Q - 1.88248E-5× Q²*

Relative standard deviation . . . . . *0.620797 %*

Correlation coefficient *0.999987*

Sample type	Index	Conc.	Volume	Dilution	Sample amount	Area	Ident	Date
Standard 1	1	0.000	20.0	1.0	1.0	n. d.	S1	2023-04-19 15:00:44 UTC-4
Standard 2	1	0.100	20.0	1.0	1.0	0.065	S2	2023-04-19 15:11:12 UTC-4
Standard 3	1	0.500	20.0	1.0	1.0	0.376	S3	2023-04-19 15:21:41 UTC-4
Standard 4	1	1.000	20.0	1.0	1.0	0.783	S4	2023-04-19 15:32:09 UTC-4
Standard 5	1	2.500	20.0	1.0	1.0	2.054	S5	2023-04-19 15:42:36 UTC-4
Standard 6	1	5.000	20.0	1.0	1.0	4.080	S6	2023-04-19 15:53:04 UTC-4
Standard 7	1	7.500	20.0	1.0	1.0	5.995	S7	2023-04-19 16:03:30 UTC-4
Standard 8	1	10.000	20.0	1.0	1.0	7.809	S8	2023-04-19 16:13:56 UTC-4

Bromide (Anions)



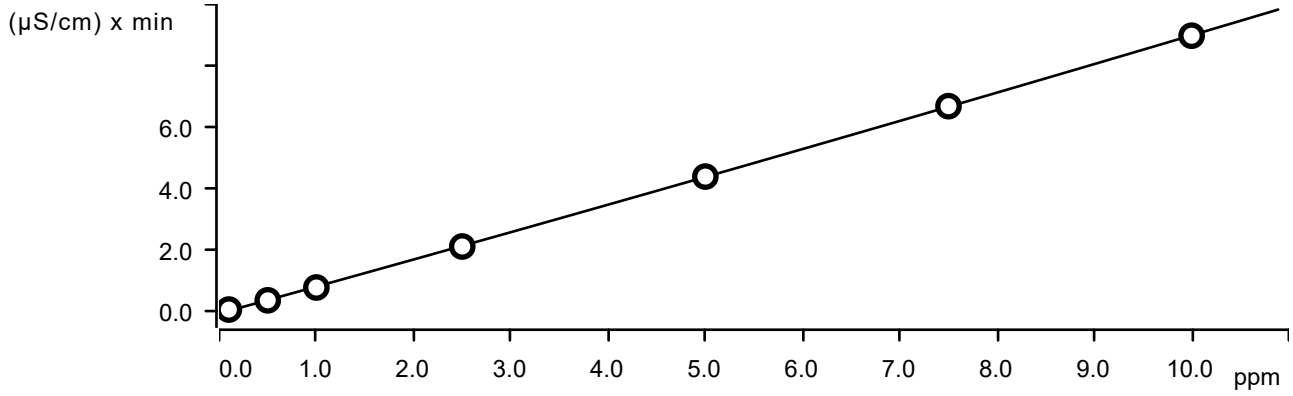
Function: . . . . . $A = - 0.0535520 + 7.78141E\text{-}3 \times Q + 2.72856E\text{-}7 \times Q^2$

Relative standard deviation . . . . . *0.880472 %*

Correlation coefficient *0.999976*

Sample type	Index	Conc.	Volume	Dilution	Sample amount	Area	Ident	Date
Standard 1	1	0.000	20.0	1.0	1.0	n. d.	S1	2023-04-19 15:00:44 UTC-4
Standard 2	1	0.500	20.0	1.0	1.0	0.058	S2	2023-04-19 15:11:12 UTC-4
Standard 3	1	2.500	20.0	1.0	1.0	0.332	S3	2023-04-19 15:21:41 UTC-4
Standard 4	1	5.000	20.0	1.0	1.0	0.699	S4	2023-04-19 15:32:09 UTC-4
Standard 5	1	12.500	20.0	1.0	1.0	1.891	S5	2023-04-19 15:42:36 UTC-4
Standard 6	1	25.000	20.0	1.0	1.0	3.916	S6	2023-04-19 15:53:04 UTC-4
Standard 7	1	37.500	20.0	1.0	1.0	5.953	S7	2023-04-19 16:03:30 UTC-4
Standard 8	1	50.000	20.0	1.0	1.0	7.990	S8	2023-04-19 16:13:56 UTC-4

Nitrate (Anions)



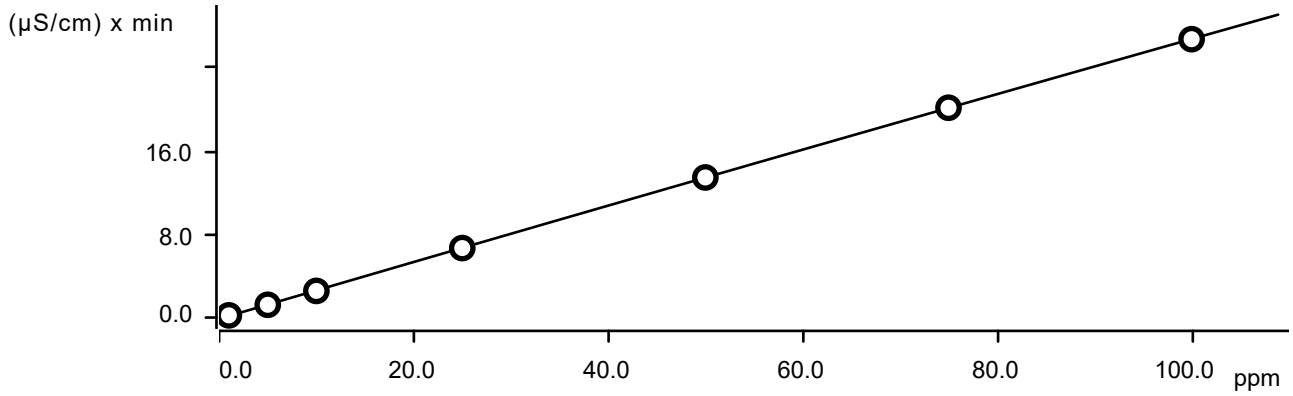
Function: . . . . . $A = - 0.0579698 + 0.0435829 \times Q + 8.27799E\text{-}6 \times Q^2$

Relative standard deviation . . . . . *0.907779 %*

Correlation coefficient *0.999974*

Sample type	Index	Conc.	Volume	Dilution	Sample amount	Area	Ident	Date
Standard 1	1	0.000	20.0	1.0	1.0	n. d.	S1	2023-04-19 15:00:44 UTC-4
Standard 2	1	0.100	20.0	1.0	1.0	0.069	S2	2023-04-19 15:11:12 UTC-4
Standard 3	1	0.500	20.0	1.0	1.0	0.370	S3	2023-04-19 15:21:41 UTC-4
Standard 4	1	1.000	20.0	1.0	1.0	0.787	S4	2023-04-19 15:32:09 UTC-4
Standard 5	1	2.500	20.0	1.0	1.0	2.121	S5	2023-04-19 15:42:36 UTC-4
Standard 6	1	5.000	20.0	1.0	1.0	4.395	S6	2023-04-19 15:53:04 UTC-4
Standard 7	1	7.500	20.0	1.0	1.0	6.685	S7	2023-04-19 16:03:30 UTC-4
Standard 8	1	10.000	20.0	1.0	1.0	8.977	S8	2023-04-19 16:13:56 UTC-4

Sulfate (Anions)



Function: . . . . . *A = - 0.101152 + 0.0136935× Q - 1.28395E-7× Q²*

Relative standard deviation . . . . . *0.435747 %*

Correlation coefficient *0.999994*

Sample type	Index	Conc.	Volume	Dilution	Sample amount	Area	Ident	Date
Standard 1	1	0.000	20.0	1.0	1.0	n. d.	S1	2023-04-19 15:00:44 UTC-4
Standard 2	1	1.000	20.0	1.0	1.0	0.234	S2	2023-04-19 15:11:12 UTC-4
Standard 3	1	5.000	20.0	1.0	1.0	1.251	S3	2023-04-19 15:21:41 UTC-4
Standard 4	1	10.000	20.0	1.0	1.0	2.581	S4	2023-04-19 15:32:09 UTC-4
Standard 5	1	25.000	20.0	1.0	1.0	6.697	S5	2023-04-19 15:42:36 UTC-4
Standard 6	1	50.000	20.0	1.0	1.0	13.479	S6	2023-04-19 15:53:04 UTC-4
Standard 7	1	75.000	20.0	1.0	1.0	20.172	S7	2023-04-19 16:03:30 UTC-4
Standard 8	1	100.000	20.0	1.0	1.0	26.758	S8	2023-04-19 16:13:56 UTC-4

MagIC Net

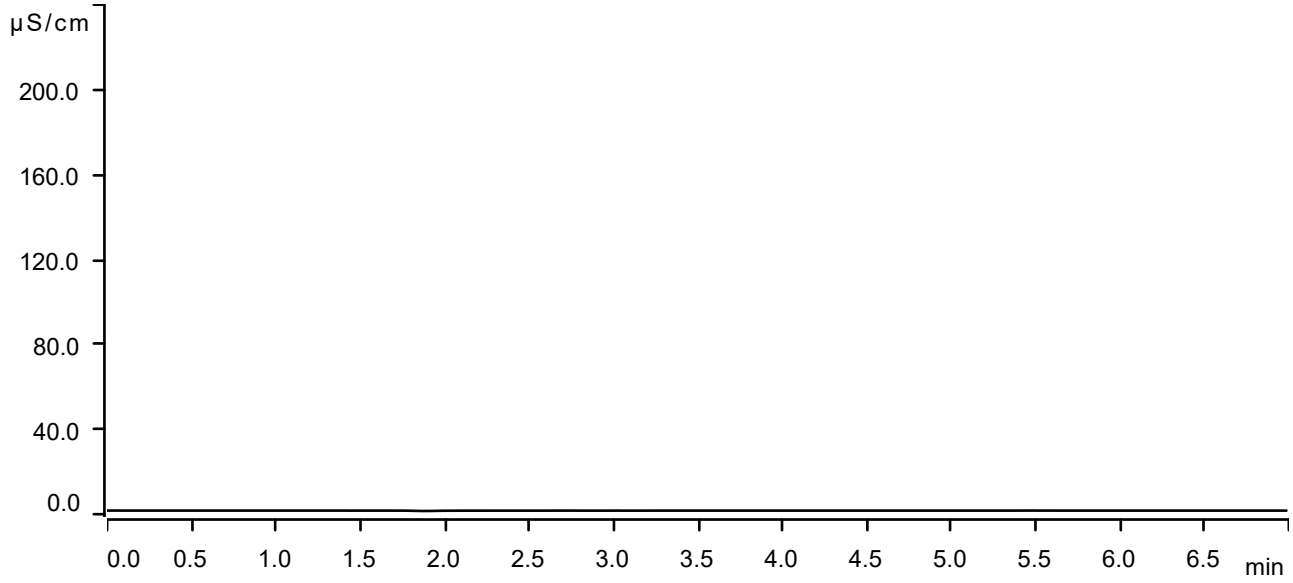
2023-04-24 9:59:14

Injection Time **2023-04-19 16:24:22 UTC-4**

Sample data

Ident	MB	
Sample type	Sample	
Position	121	
Injections	1	
Injection counter	1	
Volume	20	µL
Dilution	1	
Sample amount	1	
Comments (Info 2)		
Analyst (Info 3)	J1W	
Instrument (Info 4)	IC-12	

Anions



F Concentration on Column	invalid	ppm
Cl Concentration on Column	invalid	ppm
NO2 Concentration on Column	invalid	ppm
Br Concentration on Column	invalid	ppm
NO3 Concentration on Column	invalid	ppm
SO4 Concentration on Column	invalid	ppm

MagIC Net

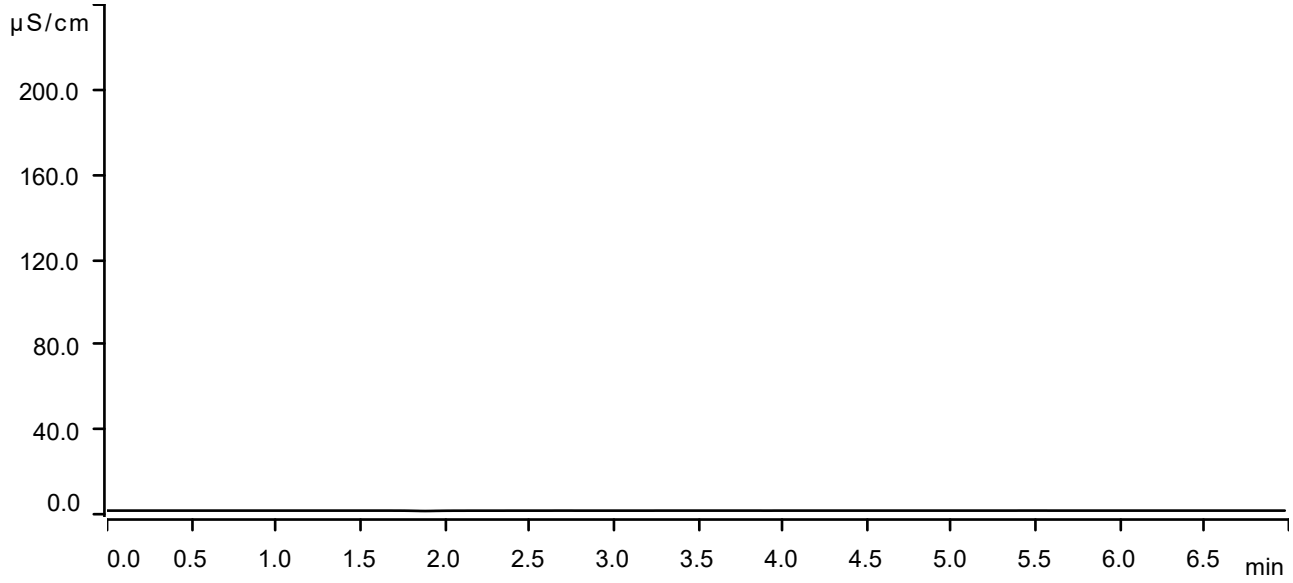
2023-04-24 9:59:15

Injection Time **2023-04-19 16:34:44 UTC-4**

Sample data

Ident	MB	
Sample type	Sample	
Position	121	
Injections	1	
Injection counter	1	
Volume	20	µL
Dilution	1	
Sample amount	1	
Comments (Info 2)		
Analyst (Info 3)	J1W	
Instrument (Info 4)	IC-12	

Anions



F Concentration on Column	invalid	ppm
Cl Concentration on Column	invalid	ppm
NO2 Concentration on Column	invalid	ppm
Br Concentration on Column	invalid	ppm
NO3 Concentration on Column	invalid	ppm
SO4 Concentration on Column	invalid	ppm

ALS

MagIC Net

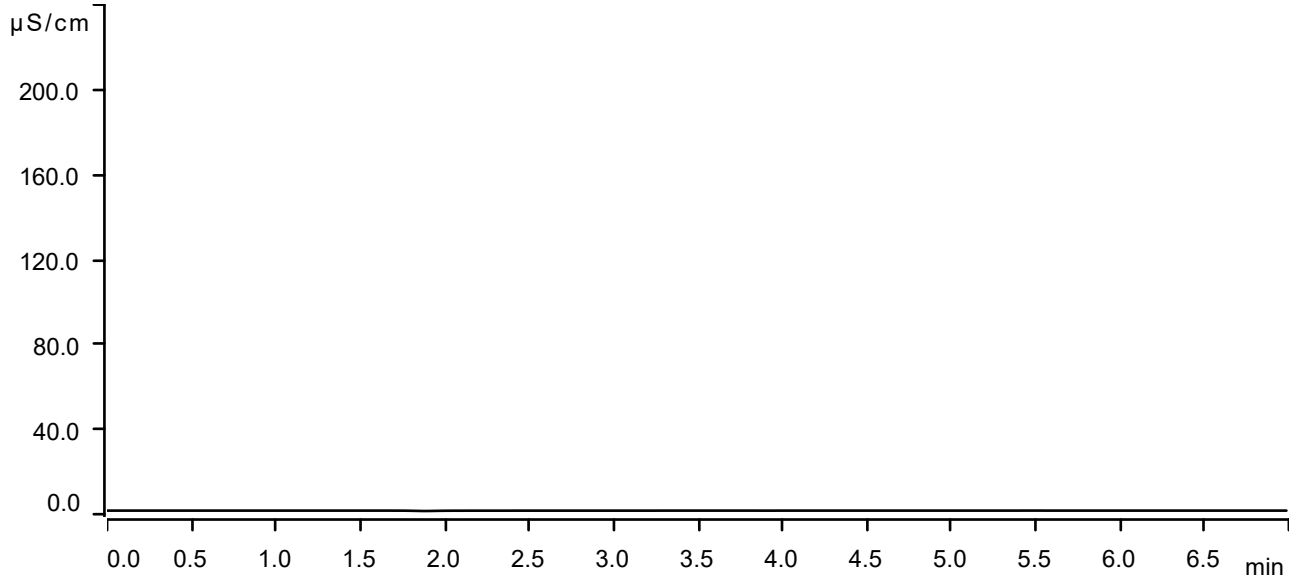
2023-04-24 9:59:15

Injection Time **2023-04-19 16:45:06 UTC-4**

Sample data

Ident	MB	
Sample type	Sample	
Position	122	
Injections	1	
Injection counter	1	
Volume	20	µL
Dilution	1	
Sample amount	1	
Comments (Info 2)	MB	
Analyst (Info 3)	J1W	
Instrument (Info 4)	IC-12	

Anions



F Concentration on Column	invalid	ppm
Cl Concentration on Column	invalid	ppm
NO2 Concentration on Column	invalid	ppm
Br Concentration on Column	invalid	ppm
NO3 Concentration on Column	invalid	ppm
SO4 Concentration on Column	invalid	ppm

ALS

MagIC Net

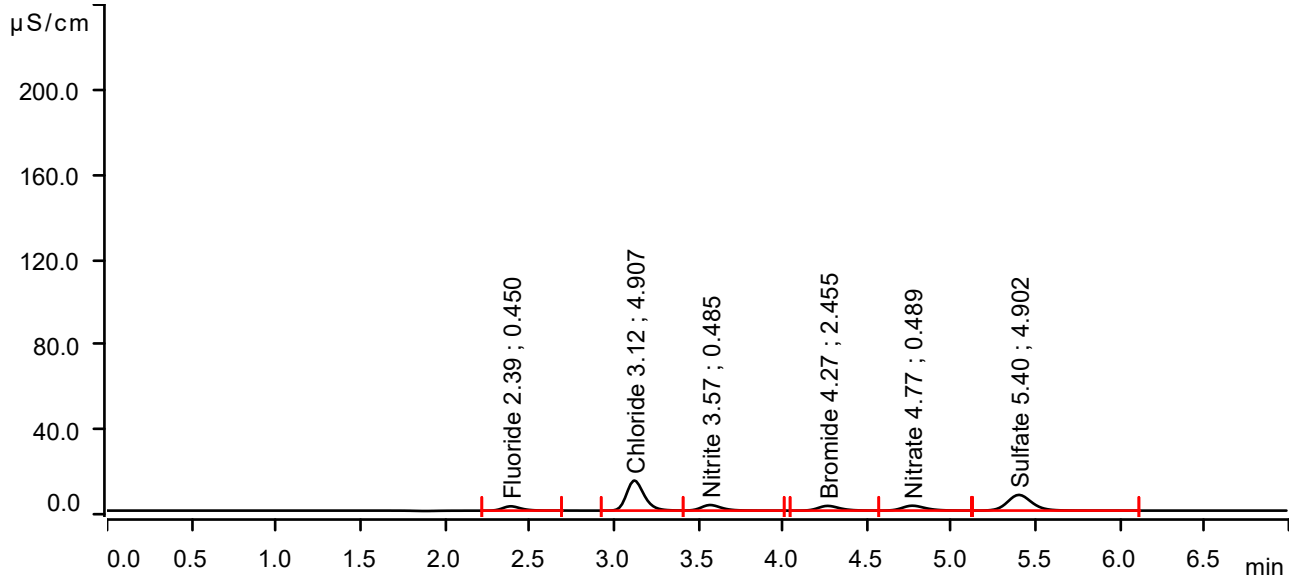
2023-04-24 9:59:16

Injection Time **2023-04-19 16:55:29 UTC-4**

Sample data

Ident	CCVL
Sample type	Check standard 1
Position	125
Injections	1
Injection counter	1
Volume	20 µL
Dilution	1
Sample amount	1
Comments (Info 2)	CCVL
Analyst (Info 3)	J1W
Instrument (Info 4)	IC-12

Anions



Peak number	Component name	Retention time	Area	Height	Concentration
		min	(µS/cm) x min	µS/cm	ppm
1	Fluoride	2.392	0.2559	2.033	0.450
2	Chloride	3.123	1.7206	14.141	4.907
3	Nitrite	3.572	0.3693	2.632	0.485
4	Bromide	4.268	0.3292	2.215	2.455
5	Nitrate	4.768	0.3693	2.301	0.489
6	Sulfate	5.400	1.2401	7.381	4.902

F Concentration on Column	0.450	ppm
Cl Concentration on Column	4.907	ppm
NO2 Concentration on Column	0.485	ppm
Br Concentration on Column	2.455	ppm
NO3 Concentration on Column	0.489	ppm
SO4 Concentration on Column	4.902	ppm

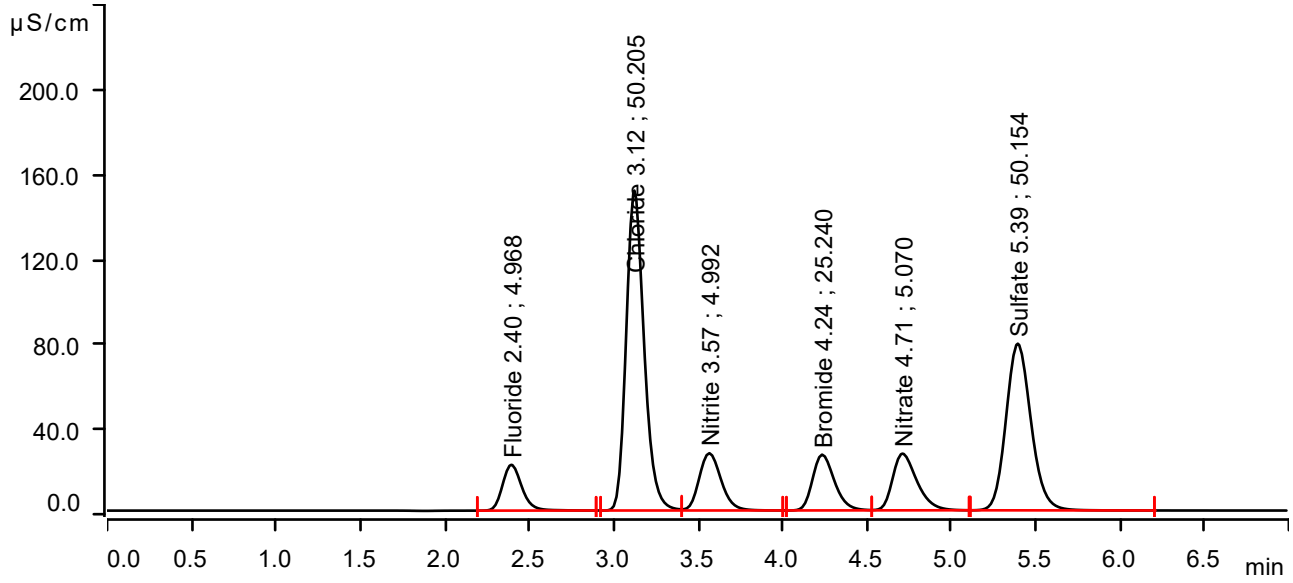
2023-04-24 9:59:17

Injection Time **2023-04-19 17:05:54 UTC-4**

Sample data

Ident	LCS
Sample type	Check standard 3
Position	130
Injections	1
Injection counter	1
Volume	20 µL
Dilution	1
Sample amount	1
Comments (Info 2)	LCS
Analyst (Info 3)	J1W
Instrument (Info 4)	IC-12

Anions



Peak number	Component name	Retention time	Area	Height	Concentration
		min	(µS/cm) x min	µS/cm	ppm
1	Fluoride	2.395	2.8605	21.549	4.968
2	Chloride	3.123	18.4980	150.518	50.205
3	Nitrite	3.567	4.0649	26.923	4.992
4	Bromide	4.235	3.9440	26.232	25.240
5	Nitrate	4.710	4.4468	26.684	5.070
6	Sulfate	5.393	13.5054	78.402	50.154

F Concentration on Column	4.968	ppm
Cl Concentration on Column	50.205	ppm
NO2 Concentration on Column	4.992	ppm
Br Concentration on Column	25.240	ppm
NO3 Concentration on Column	5.070	ppm
SO4 Concentration on Column	50.154	ppm

MagIC Net

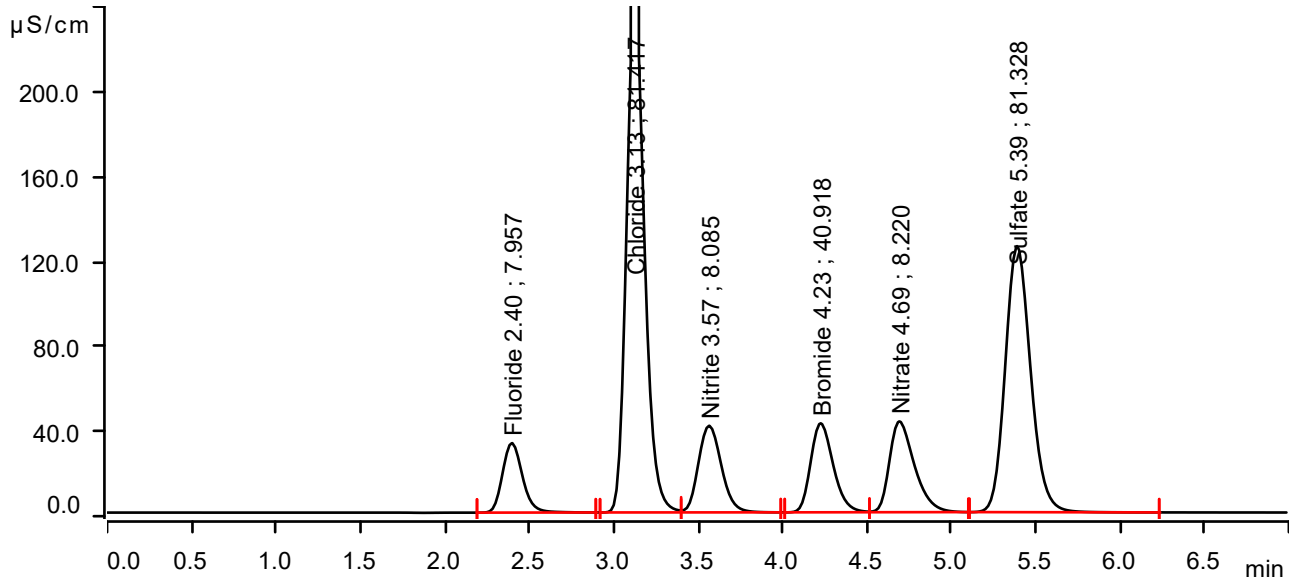
2023-04-24 9:59:18

Injection Time **2023-04-19 17:16:21 UTC-4**

Sample data

Ident	CCVH
Sample type	Check standard 2
Position	135
Injections	1
Injection counter	1
Volume	20 µL
Dilution	1
Sample amount	1
Comments (Info 2)	CCVH
Analyst (Info 3)	J1W
Instrument (Info 4)	IC-12

Anions



Peak number	Component name	Retention time	Area	Height	Concentration
		min	(µS/cm) x min	µS/cm	ppm
1	Fluoride	2.398	4.4855	32.694	7.957
2	Chloride	3.127	29.9975	243.230	81.417
3	Nitrite	3.565	6.4250	40.743	8.085
4	Bromide	4.227	6.4972	41.870	40.918
5	Nitrate	4.692	7.3308	42.733	8.220
6	Sulfate	5.388	21.8323	125.181	81.328

F Concentration on Column	7.957	ppm
Cl Concentration on Column	81.417	ppm
NO2 Concentration on Column	8.085	ppm
Br Concentration on Column	40.918	ppm
NO3 Concentration on Column	8.220	ppm
SO4 Concentration on Column	81.328	ppm

MagIC Net

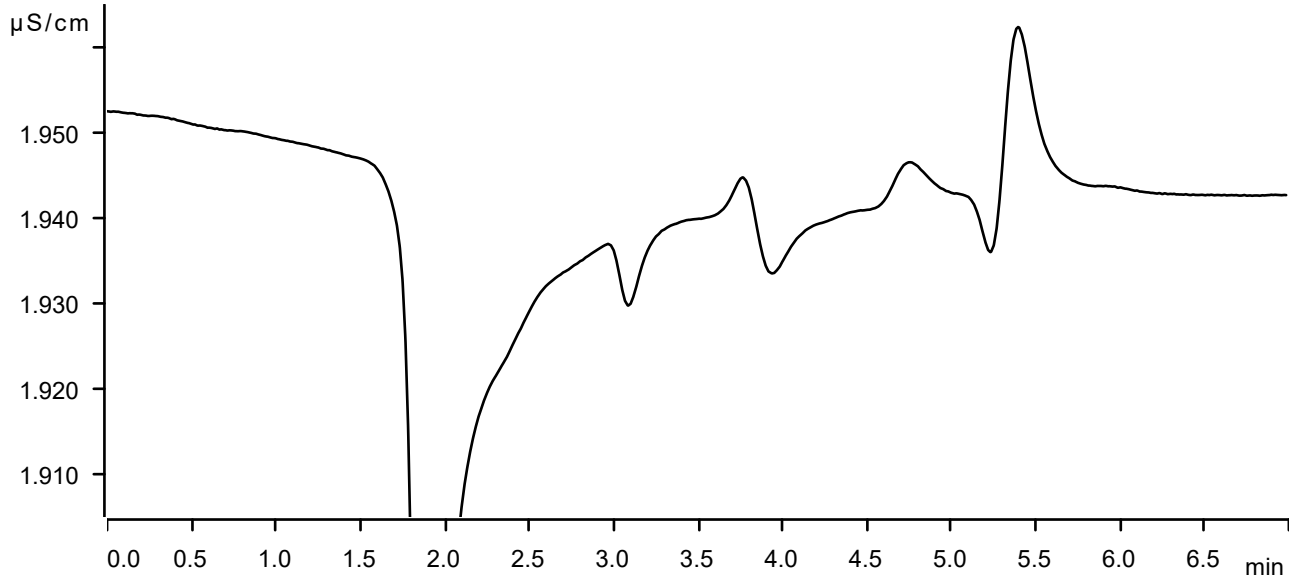
2023-07-18 10:18:59

Injection Time **2023-07-14 07:21:17 UTC-4**

Sample data

Ident	3694836	
Sample type	Sample	
Position	119	
Injections	1	
Injection counter	1	
Volume	20	µL
Dilution	1	
Sample amount	1	
Comments (Info 2)	MB	
Analyst (Info 3)	J1W	
Instrument (Info 4)	IC-12	

Anions



F Concentration on Column	invalid	ppm
Cl Concentration on Column	invalid	ppm
NO2 Concentration on Column	invalid	ppm
Br Concentration on Column	invalid	ppm
NO3 Concentration on Column	invalid	ppm
SO4 Concentration on Column	invalid	ppm

ALS

MagIC Net

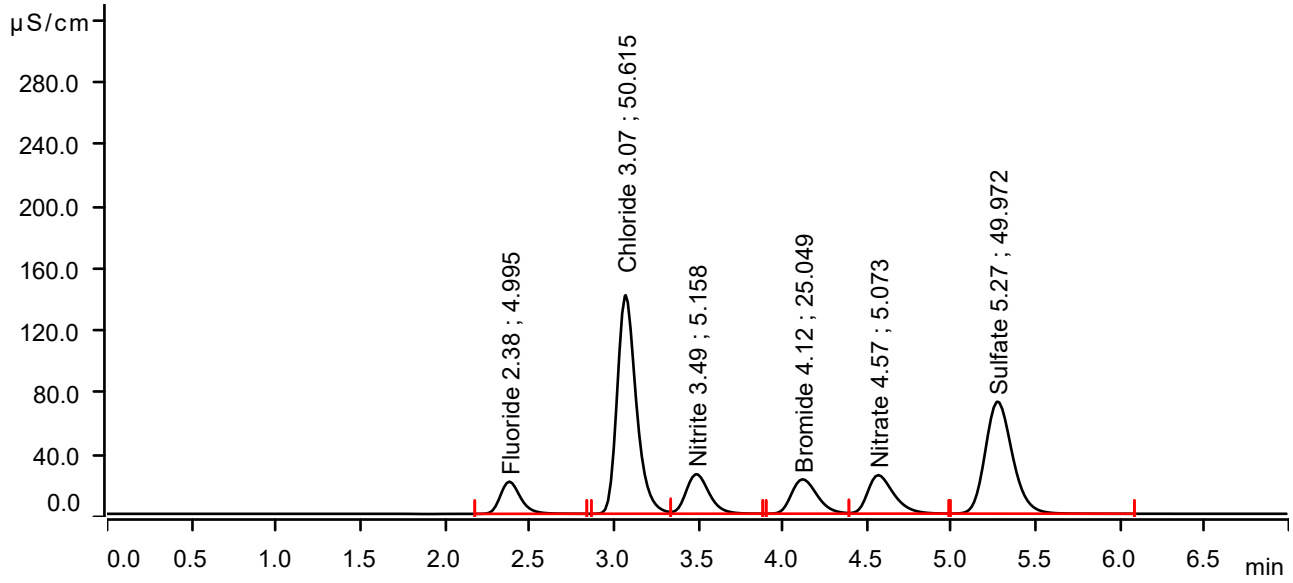
2023-07-18 10:19:02

Injection Time **2023-07-14 07:31:48 UTC-4**

Sample data

Ident	3694837
Sample type	Check standard 3
Position	130
Injections	1
Injection counter	1
Volume	20 µL
Dilution	1
Sample amount	1
Comments (Info 2)	LCS/CCV
Analyst (Info 3)	J1W
Instrument (Info 4)	IC-12

Anions



Peak number	Component name	Retention time	Area	Height	Concentration
		min	(µS/cm) x min	µS/cm	ppm
1	Fluoride	2.383	2.8756	20.705	4.995
2	Chloride	3.072	18.5080	140.818	50.615
3	Nitrite	3.490	4.0378	25.443	5.158
4	Bromide	4.120	3.9132	22.115	25.049
5	Nitrate	4.567	4.4494	24.780	5.073
6	Sulfate	5.273	13.4565	72.163	49.972

F Concentration on Column	4.995	ppm
Cl Concentration on Column	50.615	ppm
NO2 Concentration on Column	5.158	ppm
Br Concentration on Column	25.049	ppm
NO3 Concentration on Column	5.073	ppm
SO4 Concentration on Column	49.972	ppm

MagIC Net

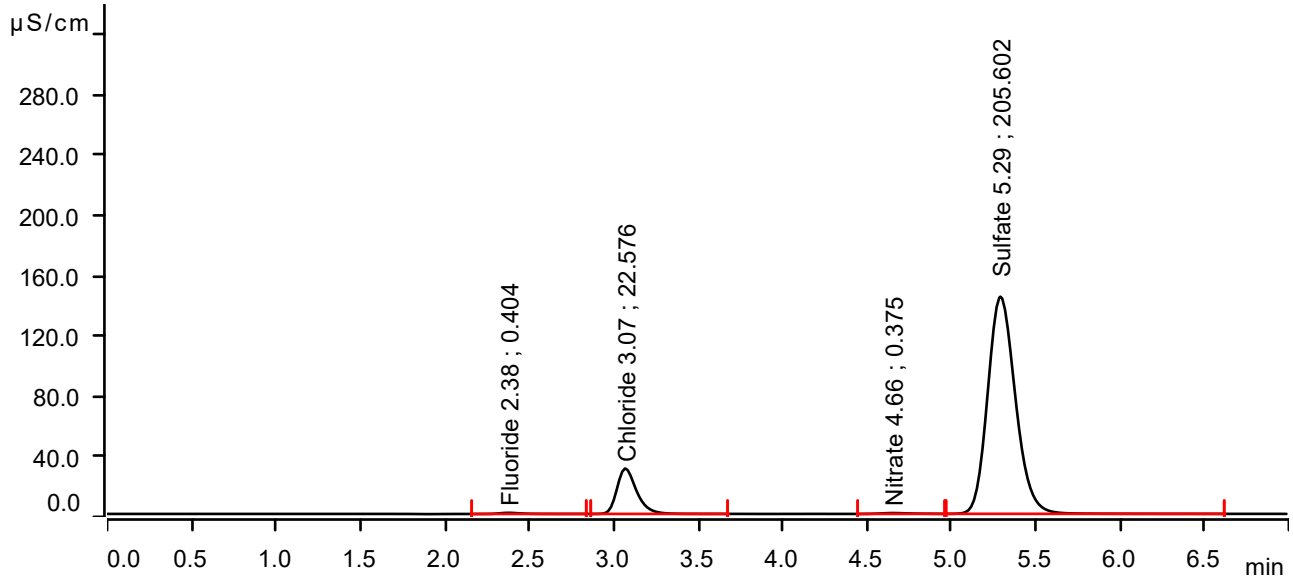
2023-07-18 10:19:03

Injection Time **2023-07-14 07:45:30 UTC-4**

Sample data

Ident	3312791002	
Sample type	Sample	
Position	1	
Injections	1	
Injection counter	1	
Volume	20	µL
Dilution	2	
Sample amount	1	
Comments (Info 2)	FILT	
Analyst (Info 3)	J1W	
Instrument (Info 4)	IC-12	

Anions



Peak number	Component name	Retention time	Area	Height	Concentration
		min	(µS/cm) x min	µS/cm	ppm
1	Fluoride	2.378	0.1080	0.744	0.404
2	Chloride	3.070	4.0609	30.130	22.576
3	Nitrate	4.655	0.1057	0.553	0.375
4	Sulfate	5.290	27.5101	144.141	205.602

F Concentration on Column	0.202	ppm
Cl Concentration on Column	11.288	ppm
NO2 Concentration on Column	invalid	ppm
Br Concentration on Column	invalid	ppm
NO3 Concentration on Column	0.188	ppm
SO4 Concentration on Column	102.801	ppm

MagIC Net

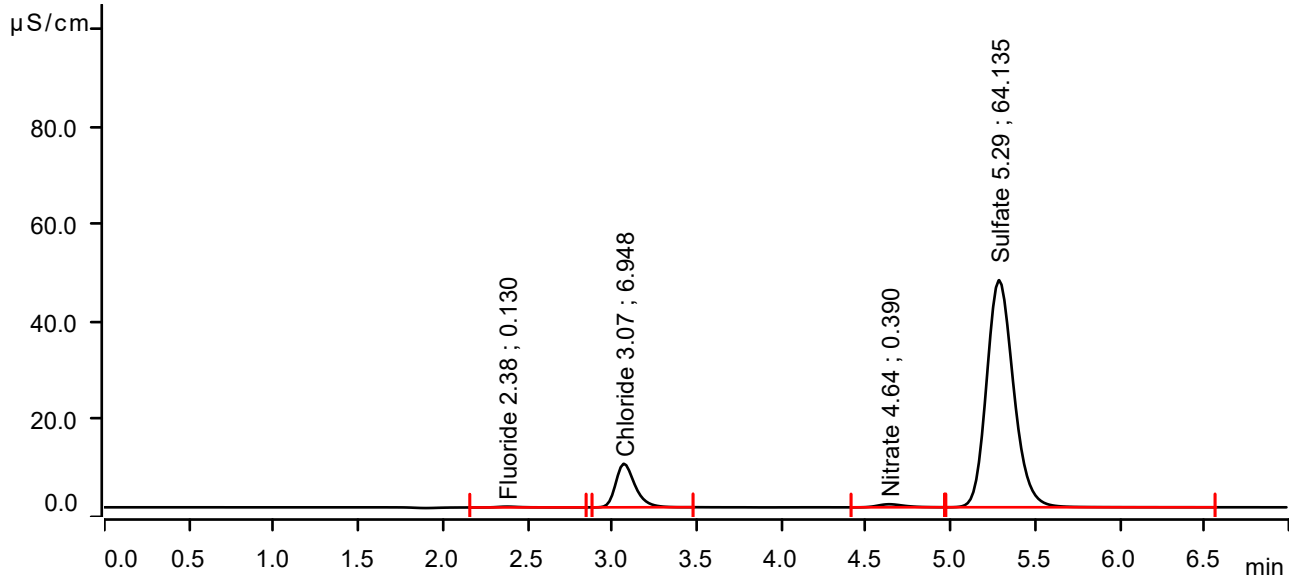
2023-07-18 10:19:04

Injection Time **2023-07-14 07:55:52 UTC-4**

Sample data

Ident	3312792001	
Sample type	Sample	
Position	2	
Injections	1	
Injection counter	1	
Volume	20	µL
Dilution	2	
Sample amount	1	
Comments (Info 2)	M	
Analyst (Info 3)	J1W	
Instrument (Info 4)	IC-12	

Anions



Peak number	Component name	Retention time	Area	Height	Concentration
		min	(µS/cm) x min	µS/cm	ppm
1	Fluoride	2.380	0.0258	0.167	0.130
2	Chloride	3.070	1.1797	8.922	6.948
3	Nitrate	4.637	0.1120	0.625	0.390
4	Sulfate	5.287	8.6283	46.542	64.135

F Concentration on Column	0.065	ppm
Cl Concentration on Column	3.474	ppm
NO2 Concentration on Column	invalid	ppm
Br Concentration on Column	invalid	ppm
NO3 Concentration on Column	0.195	ppm
SO4 Concentration on Column	32.067	ppm

MagIC Net

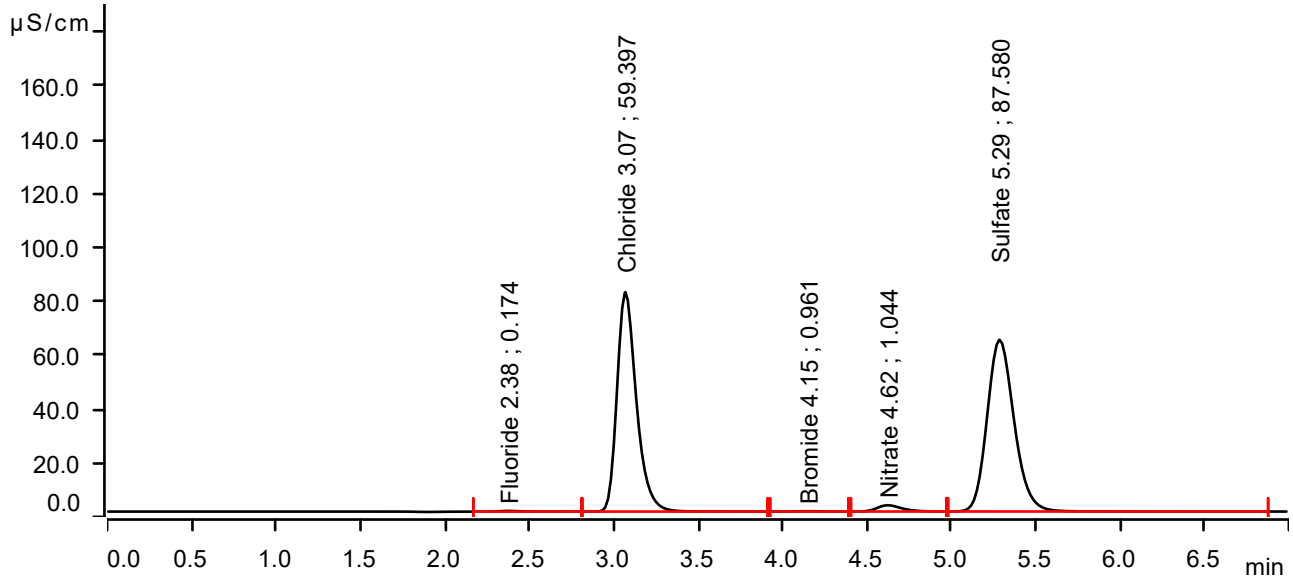
2023-07-18 10:19:06

Injection Time **2023-07-14 08:06:14 UTC-4**

Sample data

Ident	3312833001	
Sample type	Sample	
Position	3	
Injections	1	
Injection counter	1	
Volume	20	µL
Dilution	2	
Sample amount	1	
Comments (Info 2)	M	
Analyst (Info 3)	J1W	
Instrument (Info 4)	IC-12	

Anions



Peak number	Component name	Retention time min	Area (µS/cm) x min	Height µS/cm	Concentration ppm
1	Fluoride	2.377	0.0392	0.265	0.174
2	Chloride	3.070	10.8353	81.421	59.397
3	Bromide	4.152	0.0213	0.117	0.961
4	Nitrate	4.623	0.3978	2.323	1.044
5	Sulfate	5.285	11.7931	63.691	87.580

F Concentration on Column	0.087	ppm
Cl Concentration on Column	29.698	ppm
NO2 Concentration on Column	invalid	ppm
Br Concentration on Column	0.481	ppm
NO3 Concentration on Column	0.522	ppm
SO4 Concentration on Column	43.790	ppm

MagIC Net

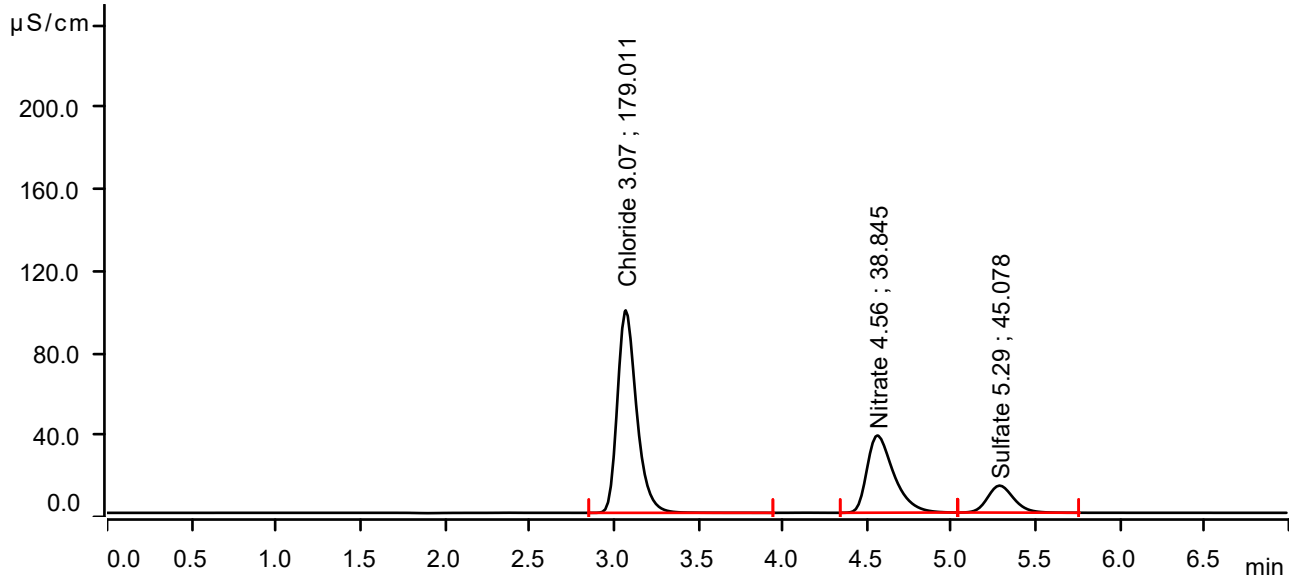
2023-07-18 10:19:07

Injection Time **2023-07-14 08:16:36 UTC-4**

Sample data

Ident	3312843002	
Sample type	Sample	
Position	4	
Injections	1	
Injection counter	1	
Volume	20	µL
Dilution	5	
Sample amount	1	
Comments (Info 2)	FILT	
Analyst (Info 3)	J1W	
Instrument (Info 4)	IC-12	

Anions



Peak number	Component name	Retention time	Area	Height	Concentration
		min	(µS/cm) x min	µS/cm	ppm
1	Chloride	3.072	13.0769	98.816	179.011
2	Nitrate	4.562	6.9139	37.672	38.845
3	Sulfate	5.285	2.3637	13.163	45.078

F Concentration on Column	invalid	ppm
Cl Concentration on Column	35.802	ppm
NO2 Concentration on Column	invalid	ppm
Br Concentration on Column	invalid	ppm
NO3 Concentration on Column	7.769	ppm
SO4 Concentration on Column	9.016	ppm

MagIC Net

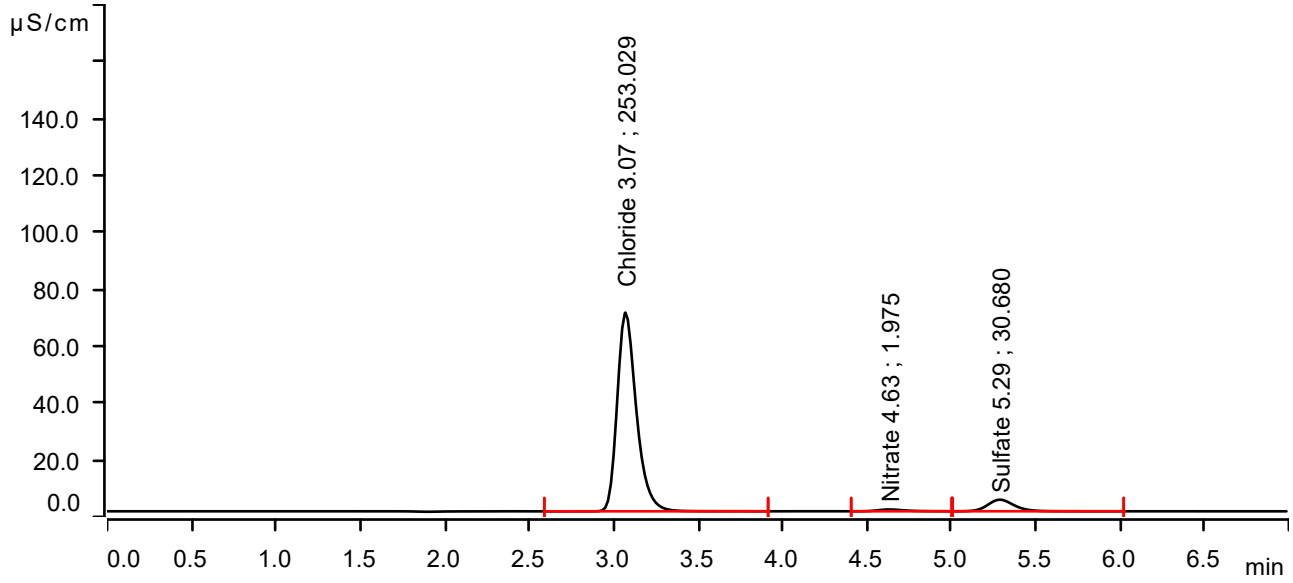
2023-07-18 10:19:08

Injection Time **2023-07-14 08:26:59 UTC-4**

Sample data

Ident	3312146002	
Sample type	Sample	
Position	5	
Injections	1	
Injection counter	1	
Volume	20	µL
Dilution	10	
Sample amount	1	
Comments (Info 2)	MCL RR	
Analyst (Info 3)	J1W	
Instrument (Info 4)	IC-12	

Anions



Peak number	Component name	Retention time	Area	Height	Concentration
		min	(µS/cm) x min	µS/cm	ppm
1	Chloride	3.070	9.2197	69.834	253.029
2	Nitrate	4.632	0.1143	0.632	1.975
3	Sulfate	5.287	0.7386	4.070	30.680

F Concentration on Column	invalid	ppm
Cl Concentration on Column	25.303	ppm
NO2 Concentration on Column	invalid	ppm
Br Concentration on Column	invalid	ppm
NO3 Concentration on Column	0.197	ppm
SO4 Concentration on Column	3.068	ppm

MagIC Net

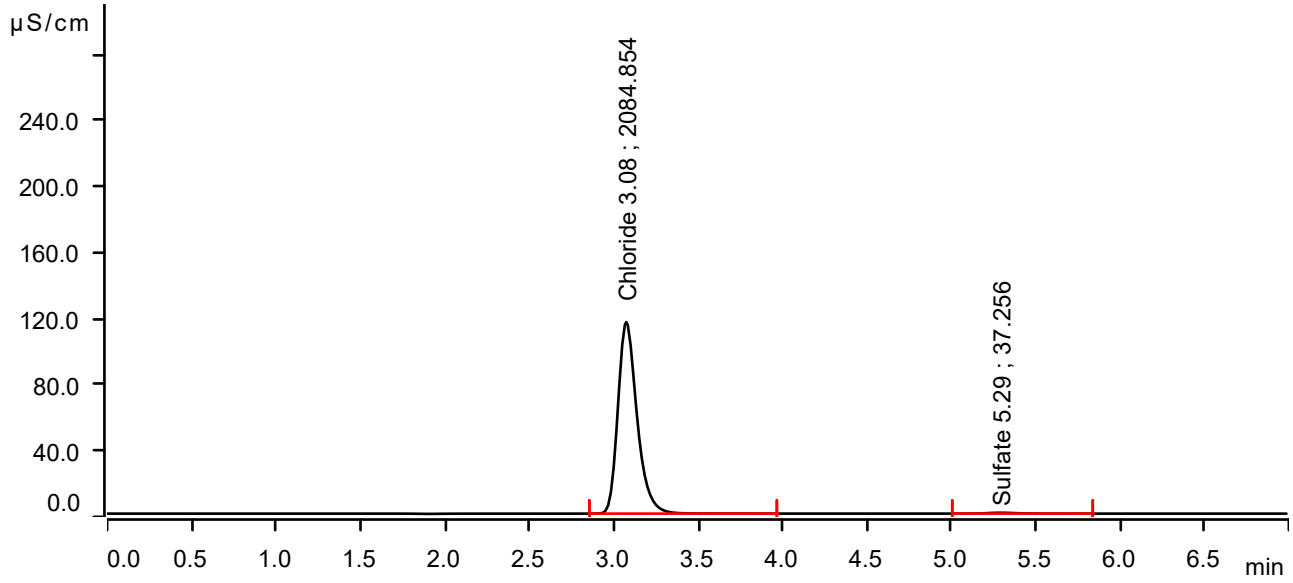
2023-07-18 10:19:09

Injection Time **2023-07-14 08:37:22 UTC-4**

Sample data

Ident	3312352001	
Sample type	Sample	
Position	6	
Injections	1	
Injection counter	1	
Volume	20	µL
Dilution	50	
Sample amount	1	
Comments (Info 2)	MCL RR	
Analyst (Info 3)	J1W	
Instrument (Info 4)	IC-12	

Anions



Peak number	Component name	Retention time	Area	Height	Concentration
		min	(µS/cm) x min	µS/cm	ppm
1	Chloride	3.075	15.2398	115.943	2084.854
2	Sulfate	5.290	0.1029	0.526	37.256

F Concentration on Column	invalid	ppm
Cl Concentration on Column	41.697	ppm
NO2 Concentration on Column	invalid	ppm
Br Concentration on Column	invalid	ppm
NO3 Concentration on Column	invalid	ppm
SO4 Concentration on Column	0.745	ppm

MagIC Net

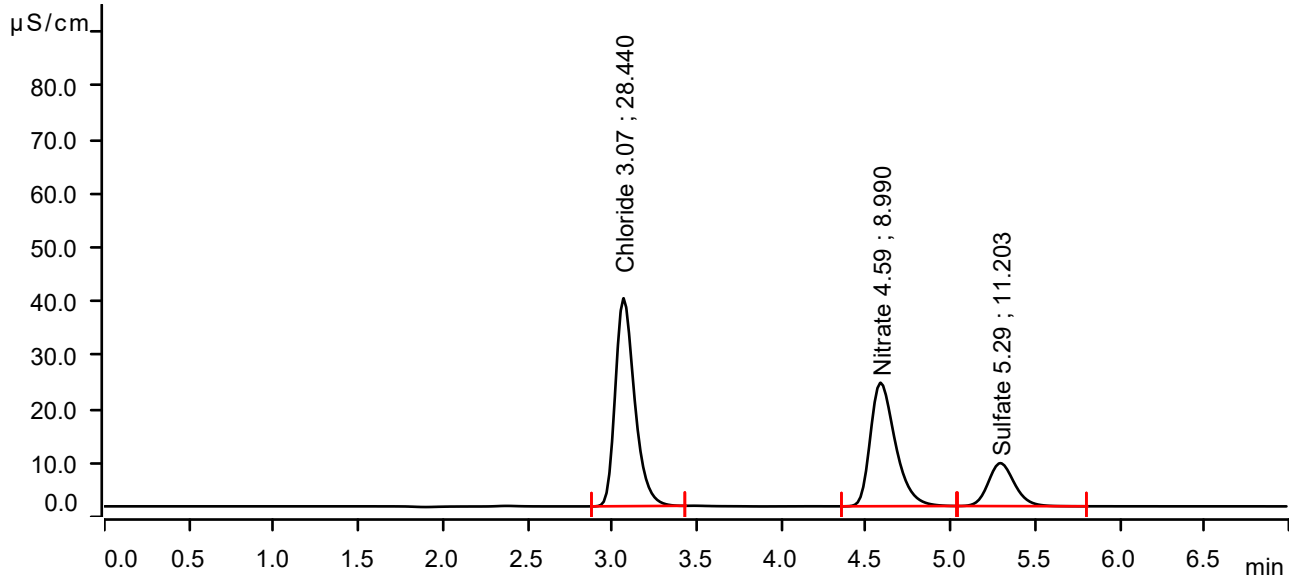
2023-07-18 10:19:10

Injection Time **2023-07-14 08:47:45 UTC-4**

Sample data

Ident	3312825001	
Sample type	Sample	
Position	7	
Injections	1	
Injection counter	1	
Volume	20	µL
Dilution	2	
Sample amount	1	
Comments (Info 2)	FILT	
Analyst (Info 3)	J1W	
Instrument (Info 4)	IC-12	

Anions



Peak number	Component name	Retention time	Area	Height	Concentration
		min	(µS/cm) x min	µS/cm	ppm
1	Chloride	3.068	5.1411	38.568	28.440
2	Nitrate	4.587	3.9271	22.893	8.990
3	Sulfate	5.293	1.4313	7.967	11.203

F Concentration on Column	invalid	ppm
Cl Concentration on Column	14.220	ppm
NO2 Concentration on Column	invalid	ppm
Br Concentration on Column	invalid	ppm
NO3 Concentration on Column	4.495	ppm
SO4 Concentration on Column	5.601	ppm

ALS

MagIC Net

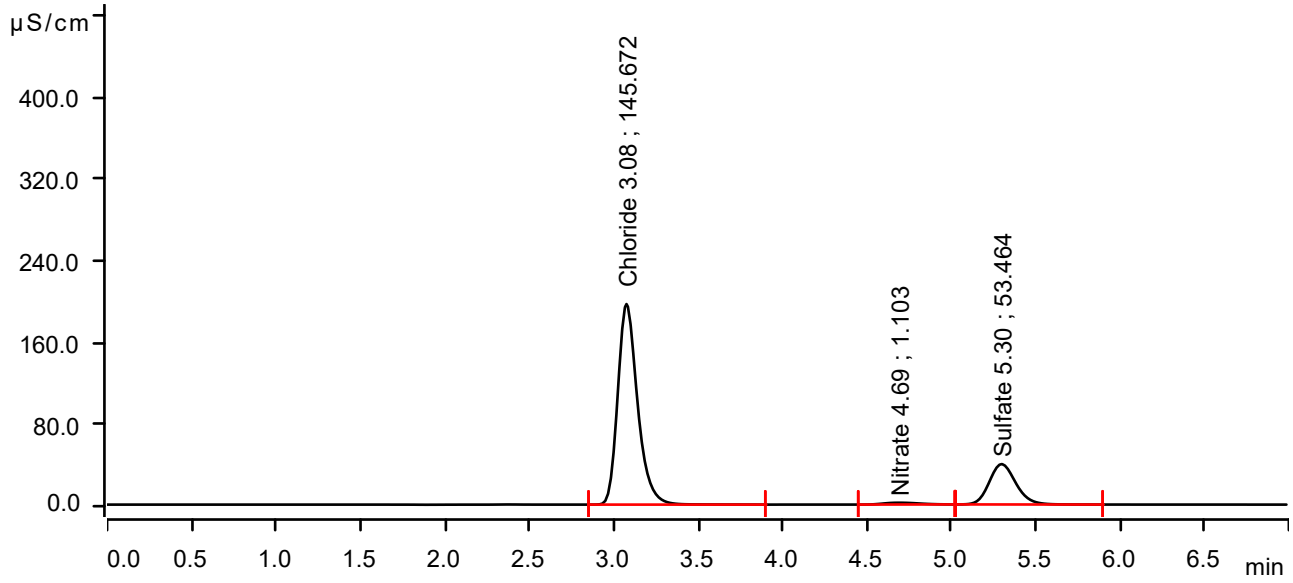
2023-07-18 10:19:11

Injection Time **2023-07-14 08:58:08 UTC-4**

Sample data

Ident	3312842002	
Sample type	Sample	
Position	8	
Injections	1	
Injection counter	1	
Volume	20	µL
Dilution	2	
Sample amount	1	
Comments (Info 2)	FILT	
Analyst (Info 3)	J1W	
Instrument (Info 4)	IC-12	

Anions



Peak number	Component name	Retention time	Area	Height	Concentration
		min	(µS/cm) x min	µS/cm	ppm
1	Chloride	3.077	26.6313	195.781	145.672
2	Nitrate	4.690	0.4239	1.743	1.103
3	Sulfate	5.297	7.1831	39.363	53.464

F Concentration on Column	invalid	ppm
Cl Concentration on Column	72.836	ppm
NO2 Concentration on Column	invalid	ppm
Br Concentration on Column	invalid	ppm
NO3 Concentration on Column	0.552	ppm
SO4 Concentration on Column	26.732	ppm

ALS

MagIC Net

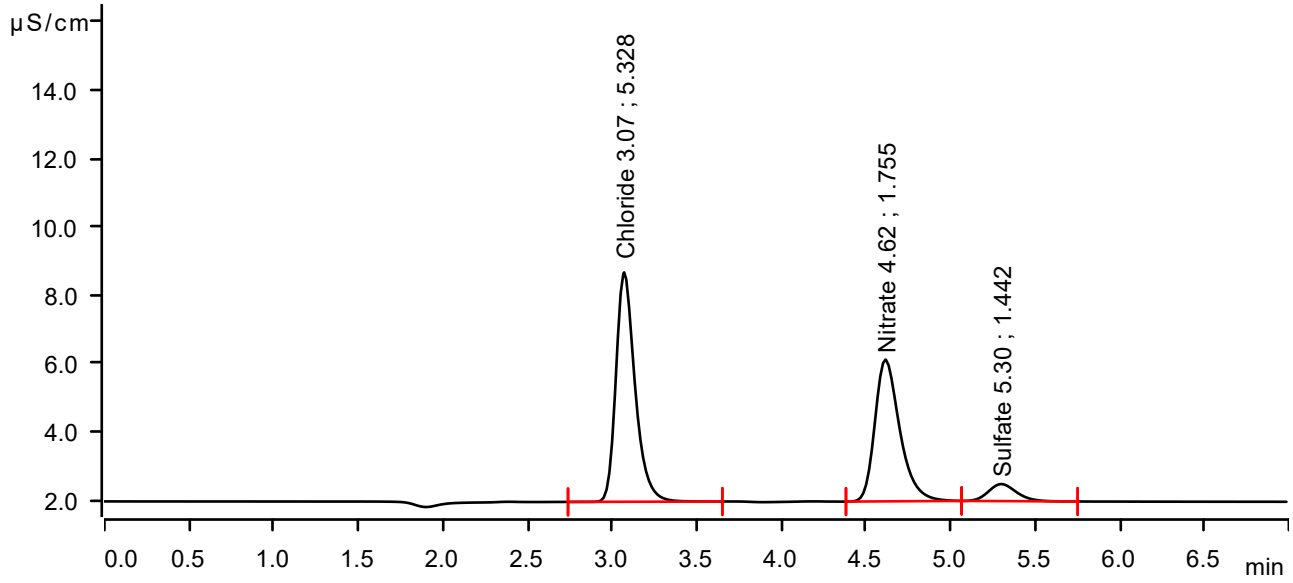
2023-07-18 10:19:12

Injection Time **2023-07-14 09:08:32 UTC-4**

Sample data

Ident	3312688001	
Sample type	Sample	
Position	9	
Injections	1	
Injection counter	1	
Volume	20	µL
Dilution	2	
Sample amount	1	
Comments (Info 2)	M	
Analyst (Info 3)	J1W	
Instrument (Info 4)	IC-12	

Anions



Peak number	Component name	Retention time	Area	Height	Concentration
		min	(µS/cm) x min	µS/cm	ppm
1	Chloride	3.072	0.8809	6.716	5.328
2	Nitrate	4.615	0.7096	4.150	1.755
3	Sulfate	5.298	0.0963	0.499	1.442

F Concentration on Column	invalid	ppm
Cl Concentration on Column	2.664	ppm
NO2 Concentration on Column	invalid	ppm
Br Concentration on Column	invalid	ppm
NO3 Concentration on Column	0.878	ppm
SO4 Concentration on Column	0.721	ppm

MagIC Net

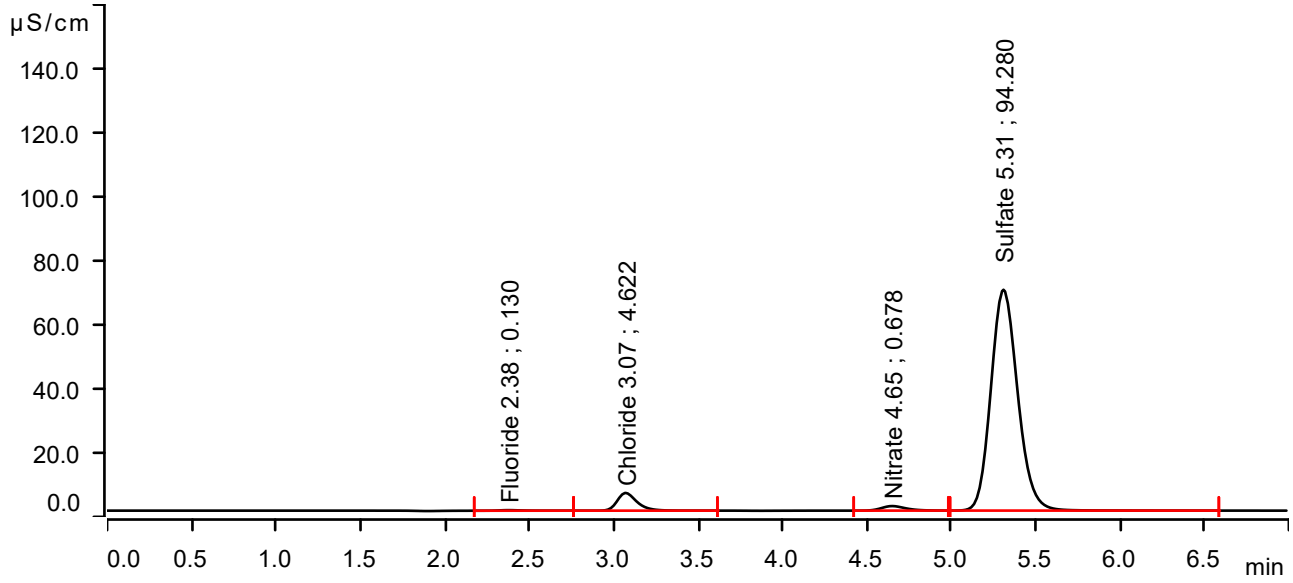
2023-07-18 10:19:13

Injection Time **2023-07-14 09:18:56 UTC-4**

Sample data

Ident	3312811001	
Sample type	Sample	
Position	10	
Injections	1	
Injection counter	1	
Volume	20	µL
Dilution	2	
Sample amount	1	
Comments (Info 2)	M	
Analyst (Info 3)	J1W	
Instrument (Info 4)	IC-12	

Anions



Peak number	Component name	Retention time	Area	Height	Concentration
		min	(µS/cm) x min	µS/cm	ppm
1	Fluoride	2.378	0.0258	0.175	0.130
2	Chloride	3.072	0.7505	5.529	4.622
3	Nitrate	4.650	0.2379	1.424	0.678
4	Sulfate	5.308	12.6949	68.989	94.280

F Concentration on Column	0.065	ppm
Cl Concentration on Column	2.311	ppm
NO2 Concentration on Column	invalid	ppm
Br Concentration on Column	invalid	ppm
NO3 Concentration on Column	0.339	ppm
SO4 Concentration on Column	47.140	ppm

MagIC Net

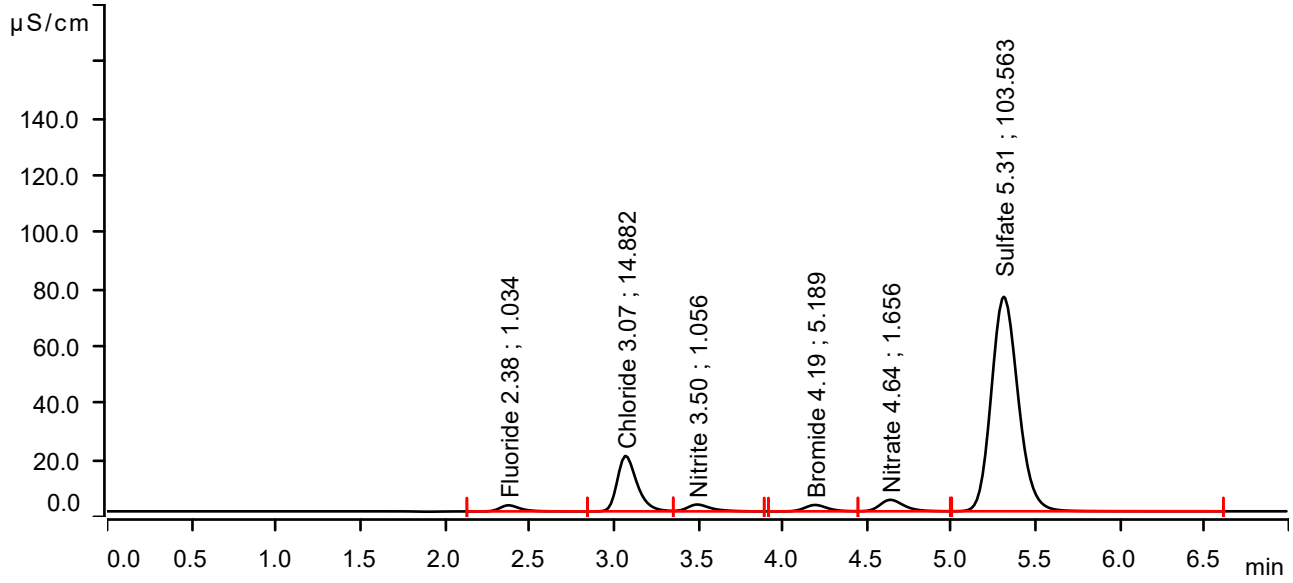
2023-07-18 10:19:14

Injection Time **2023-07-14 09:29:21 UTC-4**

Sample data

Ident	3694934
Sample type	Spiking 1
Position	11
Injections	1
Injection counter	1
Volume	20 µL
Dilution	2
Sample amount	1
Comments (Info 2)	MS, FILT
Analyst (Info 3)	J1W
Instrument (Info 4)	IC-12

Anions



Peak number	Component name	Retention time	Area	Height	Concentration
		min	(µS/cm) x min	µS/cm	ppm
1	Fluoride	2.378	0.2960	2.138	1.034
2	Chloride	3.072	2.6429	19.475	14.882
3	Nitrite	3.495	0.3916	2.403	1.056
4	Bromide	4.193	0.3510	2.236	5.189
5	Nitrate	4.638	0.6658	4.031	1.656
6	Sulfate	5.310	13.9424	75.353	103.563

F Concentration on Column	0.517	ppm
Cl Concentration on Column	7.441	ppm
NO2 Concentration on Column	0.528	ppm
Br Concentration on Column	2.595	ppm
NO3 Concentration on Column	0.828	ppm
SO4 Concentration on Column	51.781	ppm

MagIC Net

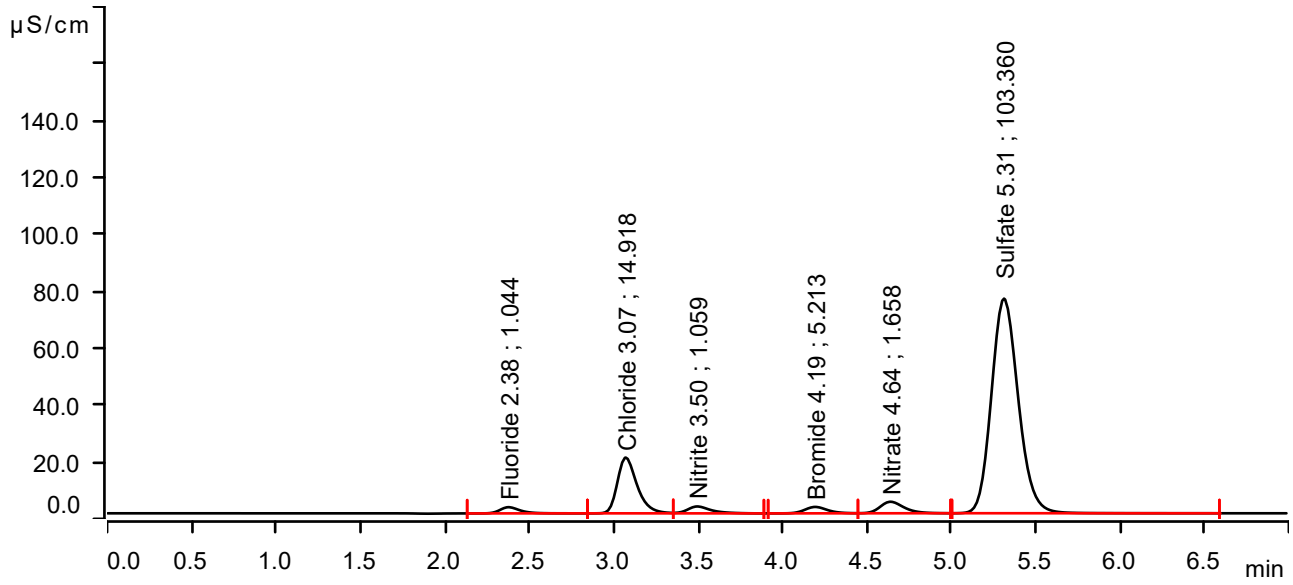
2023-07-18 10:19:15

Injection Time 2023-07-14 09:39:47 UTC-4

Sample data

Ident	3694935	
Sample type	Spiking 1	
Position	12	
Injections	1	
Injection counter	1	
Volume	20	µL
Dilution	2	
Sample amount	1	
Comments (Info 2)	MSD, FILT	
Analyst (Info 3)	J1W	
Instrument (Info 4)	IC-12	

Anions



Peak number	Component name	Retention time	Area	Height	Concentration
		min	(µS/cm) x min	µS/cm	ppm
1	Fluoride	2.378	0.2988	2.177	1.044
2	Chloride	3.072	2.6495	19.611	14.918
3	Nitrite	3.495	0.3930	2.426	1.059
4	Bromide	4.193	0.3528	2.254	5.213
5	Nitrate	4.640	0.6671	4.051	1.658
6	Sulfate	5.312	13.9153	75.424	103.360

F Concentration on Column	0.522	ppm
Cl Concentration on Column	7.459	ppm
NO2 Concentration on Column	0.530	ppm
Br Concentration on Column	2.606	ppm
NO3 Concentration on Column	0.829	ppm
SO4 Concentration on Column	51.680	ppm

MagIC Net

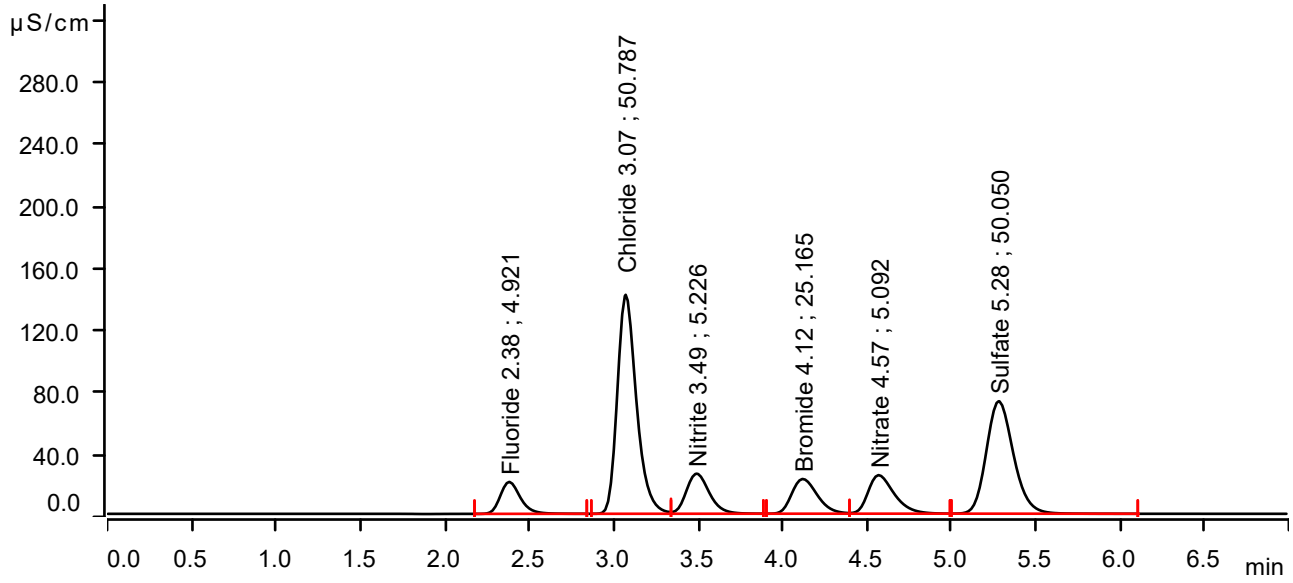
2023-07-18 10:19:17

Injection Time **2023-07-14 09:50:13 UTC-4**

Sample data

Ident	3694936
Sample type	Check standard 3
Position	130
Injections	1
Injection counter	1
Volume	20 µL
Dilution	1
Sample amount	1
Comments (Info 2)	CCV
Analyst (Info 3)	J1W
Instrument (Info 4)	IC-12

Anions



Peak number	Component name	Retention time	Area	Height	Concentration
		min	(µS/cm) x min	µS/cm	ppm
1	Fluoride	2.382	2.8339	20.536	4.921
2	Chloride	3.072	18.5711	141.075	50.787
3	Nitrite	3.492	4.0891	25.807	5.226
4	Bromide	4.120	3.9319	22.350	25.165
5	Nitrate	4.570	4.4664	24.801	5.092
6	Sulfate	5.280	13.4773	72.462	50.050

F Concentration on Column	4.921	ppm
Cl Concentration on Column	50.787	ppm
NO2 Concentration on Column	5.226	ppm
Br Concentration on Column	25.165	ppm
NO3 Concentration on Column	5.092	ppm
SO4 Concentration on Column	50.050	ppm

MagIC Net

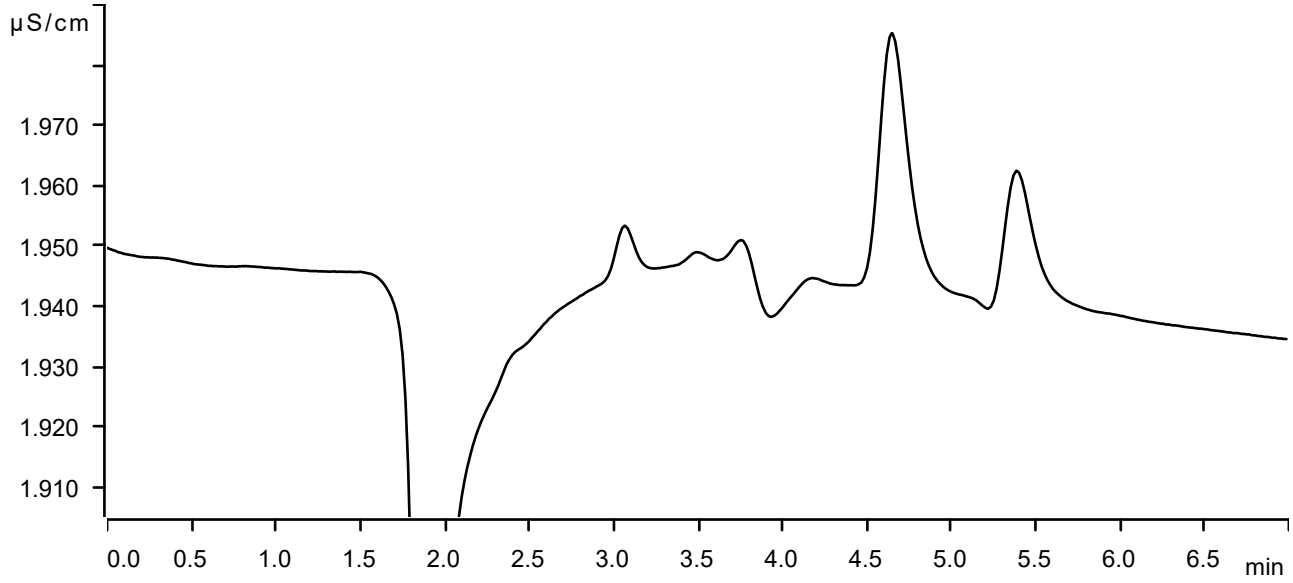
2023-07-18 10:19:18

Injection Time **2023-07-14 10:00:40 UTC-4**

Sample data

Ident	3694937	
Sample type	Sample	
Position	119	
Injections	1	
Injection counter	1	
Volume	20	µL
Dilution	1	
Sample amount	1	
Comments (Info 2)	MB	
Analyst (Info 3)	J1W	
Instrument (Info 4)	IC-12	

Anions



F Concentration on Column	invalid	ppm
Cl Concentration on Column	invalid	ppm
NO2 Concentration on Column	invalid	ppm
Br Concentration on Column	invalid	ppm
NO3 Concentration on Column	invalid	ppm
SO4 Concentration on Column	invalid	ppm

ALS

MagIC Net

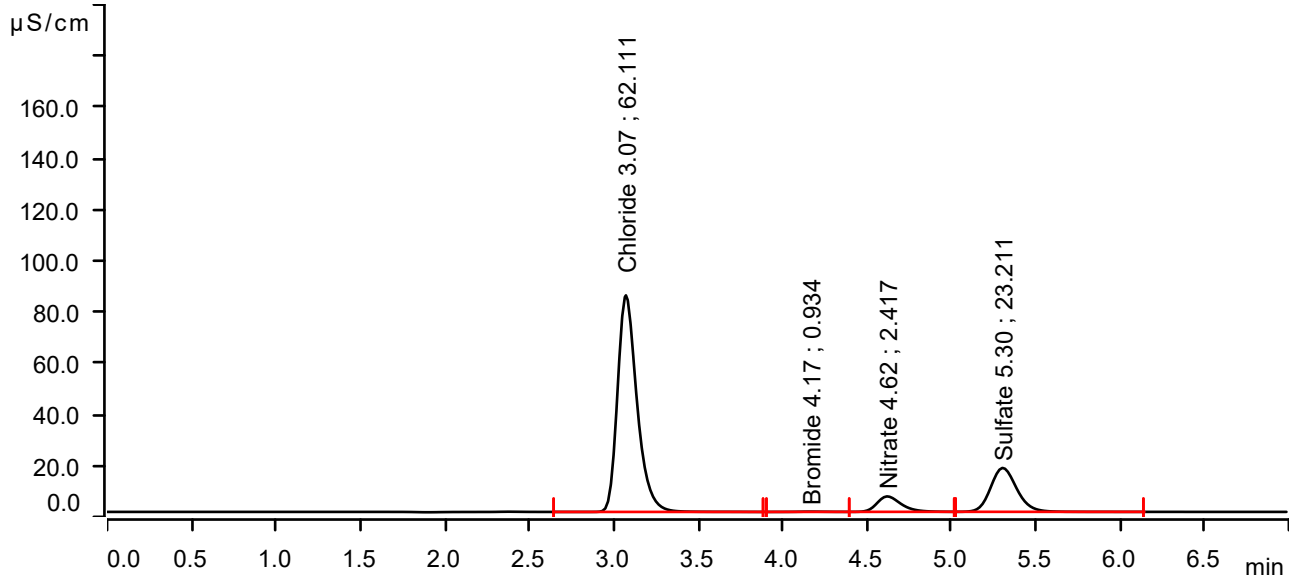
2023-07-18 10:19:19

Injection Time **2023-07-14 10:11:02 UTC-4**

Sample data

Ident	3312841001	
Sample type	Sample	
Position	13	
Injections	1	
Injection counter	1	
Volume	20	µL
Dilution	2	
Sample amount	1	
Comments (Info 2)	M	
Analyst (Info 3)	J1W	
Instrument (Info 4)	IC-12	

Anions



Peak number	Component name	Retention time	Area	Height	Concentration
		min	(µS/cm) x min	µS/cm	ppm
1	Chloride	3.073	11.3339	84.564	62.111
2	Bromide	4.168	0.0191	0.103	0.934
3	Nitrate	4.620	1.0002	6.021	2.417
4	Sulfate	5.303	3.0703	17.115	23.211

F Concentration on Column	invalid	ppm
Cl Concentration on Column	31.056	ppm
NO2 Concentration on Column	invalid	ppm
Br Concentration on Column	0.467	ppm
NO3 Concentration on Column	1.208	ppm
SO4 Concentration on Column	11.605	ppm

ALS

MagIC Net

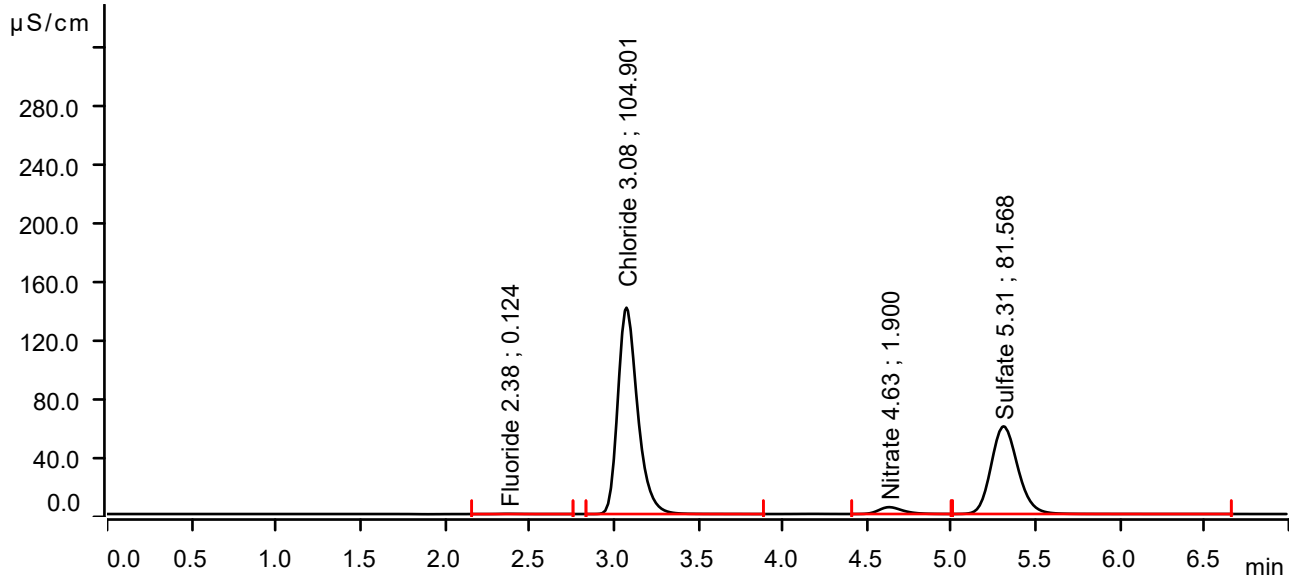
2023-07-18 10:19:20

Injection Time **2023-07-14 10:21:28 UTC-4**

Sample data

Ident	3312841003	
Sample type	Sample	
Position	14	
Injections	1	
Injection counter	1	
Volume	20	µL
Dilution	2	
Sample amount	1	
Comments (Info 2)	M	
Analyst (Info 3)	J1W	
Instrument (Info 4)	IC-12	

Anions



Peak number	Component name	Retention time	Area	Height	Concentration
		min	(µS/cm) x min	µS/cm	ppm
1	Fluoride	2.380	0.0241	0.163	0.124
2	Chloride	3.077	19.1801	141.004	104.901
3	Nitrate	4.632	0.7729	4.675	1.900
4	Sulfate	5.308	10.9829	59.867	81.568

F Concentration on Column	0.062	ppm
Cl Concentration on Column	52.450	ppm
NO2 Concentration on Column	invalid	ppm
Br Concentration on Column	invalid	ppm
NO3 Concentration on Column	0.950	ppm
SO4 Concentration on Column	40.784	ppm

MagIC Net

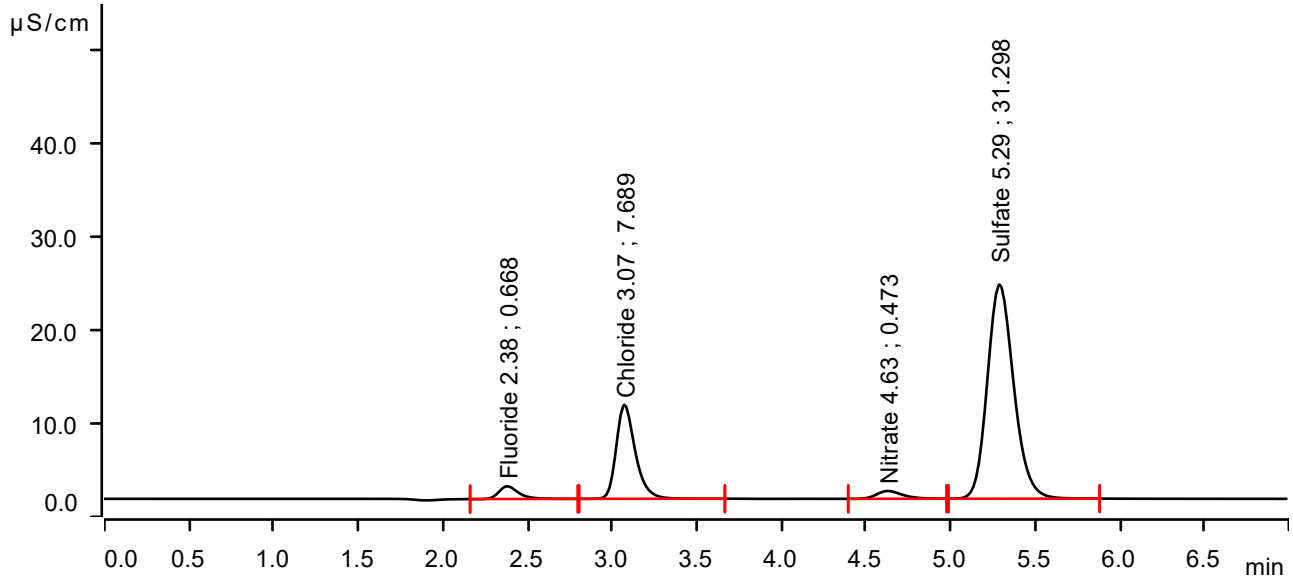
2023-07-18 10:19:21

Injection Time **2023-07-14 10:31:54 UTC-4**

Sample data

Ident	3312849001	
Sample type	Sample	
Position	15	
Injections	1	
Injection counter	1	
Volume	20	µL
Dilution	2	
Sample amount	1	
Comments (Info 2)	M	
Analyst (Info 3)	J1W	
Instrument (Info 4)	IC-12	

Anions



Peak number	Component name	Retention time	Area	Height	Concentration
		min	(µS/cm) x min	µS/cm	ppm
1	Fluoride	2.382	0.1868	1.372	0.668
2	Chloride	3.073	1.3164	10.096	7.689
3	Nitrate	4.628	0.1483	0.838	0.473
4	Sulfate	5.288	4.1720	22.994	31.298

F Concentration on Column	0.334	ppm
Cl Concentration on Column	3.845	ppm
NO2 Concentration on Column	invalid	ppm
Br Concentration on Column	invalid	ppm
NO3 Concentration on Column	0.236	ppm
SO4 Concentration on Column	15.649	ppm

MagIC Net

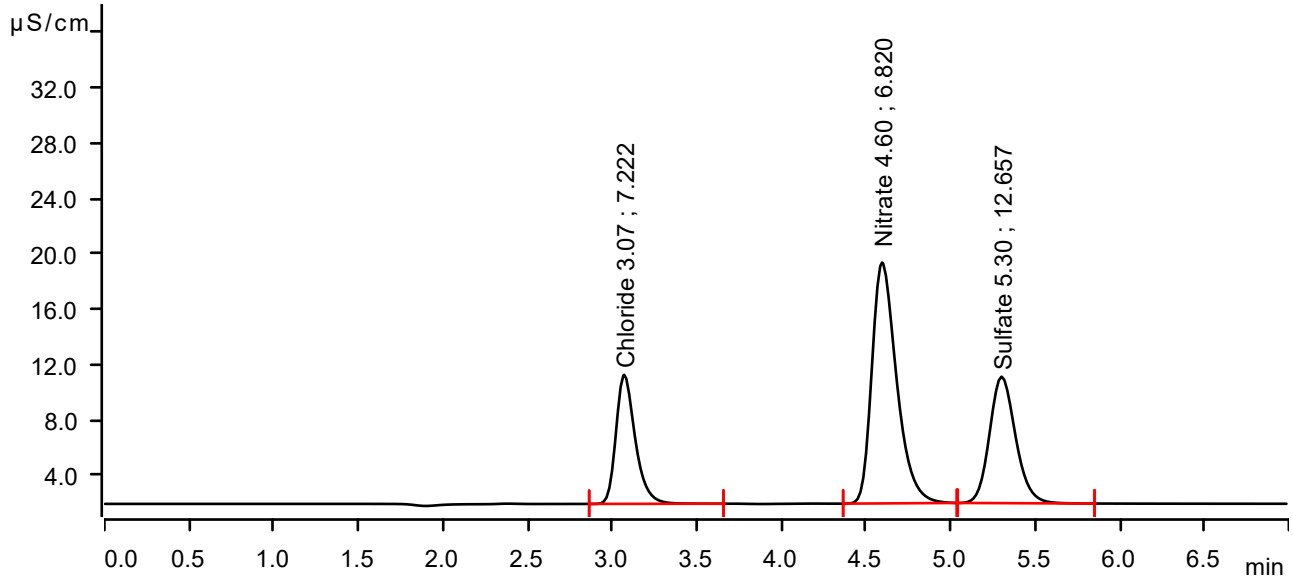
2023-07-18 10:19:22

Injection Time **2023-07-14 10:42:20 UTC-4**

Sample data

Ident	3312892001	
Sample type	Sample	
Position	16	
Injections	1	
Injection counter	1	
Volume	20	µL
Dilution	2	
Sample amount	1	
Comments (Info 2)	M	
Analyst (Info 3)	J1W	
Instrument (Info 4)	IC-12	

Anions



Peak number	Component name	Retention time	Area	Height	Concentration
		min	(µS/cm) x min	µS/cm	ppm
1	Chloride	3.072	1.2302	9.323	7.222
2	Nitrate	4.595	2.9528	17.401	6.820
3	Sulfate	5.302	1.6300	9.133	12.657

F Concentration on Column	invalid	ppm
Cl Concentration on Column	3.611	ppm
NO2 Concentration on Column	invalid	ppm
Br Concentration on Column	invalid	ppm
NO3 Concentration on Column	3.410	ppm
SO4 Concentration on Column	6.329	ppm

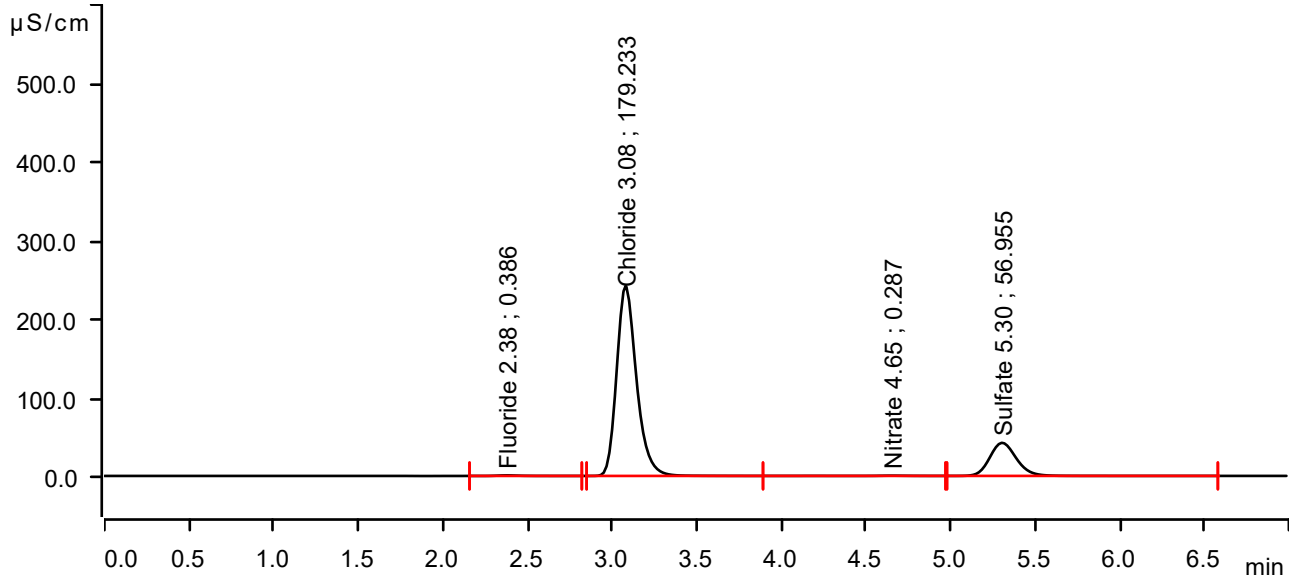
2023-07-18 10:19:23

Injection Time **2023-07-14 10:52:47 UTC-4**

Sample data

Ident	3312918001	
Sample type	Sample	
Position	17	
Injections	1	
Injection counter	1	
Volume	20	µL
Dilution	2	
Sample amount	1	
Comments (Info 2)	M	
Analyst (Info 3)	J1W	
Instrument (Info 4)	IC-12	

Anions



Peak number	Component name	Retention time	Area	Height	Concentration
		min	(µS/cm) x min	µS/cm	ppm
1	Fluoride	2.377	0.1025	0.710	0.386
2	Chloride	3.080	32.7466	241.038	179.233
3	Nitrate	4.653	0.0673	0.317	0.287
4	Sulfate	5.303	7.6563	41.964	56.955

F Concentration on Column	0.193	ppm
Cl Concentration on Column	89.616	ppm
NO2 Concentration on Column	invalid	ppm
Br Concentration on Column	invalid	ppm
NO3 Concentration on Column	0.144	ppm
SO4 Concentration on Column	28.477	ppm

MagIC Net

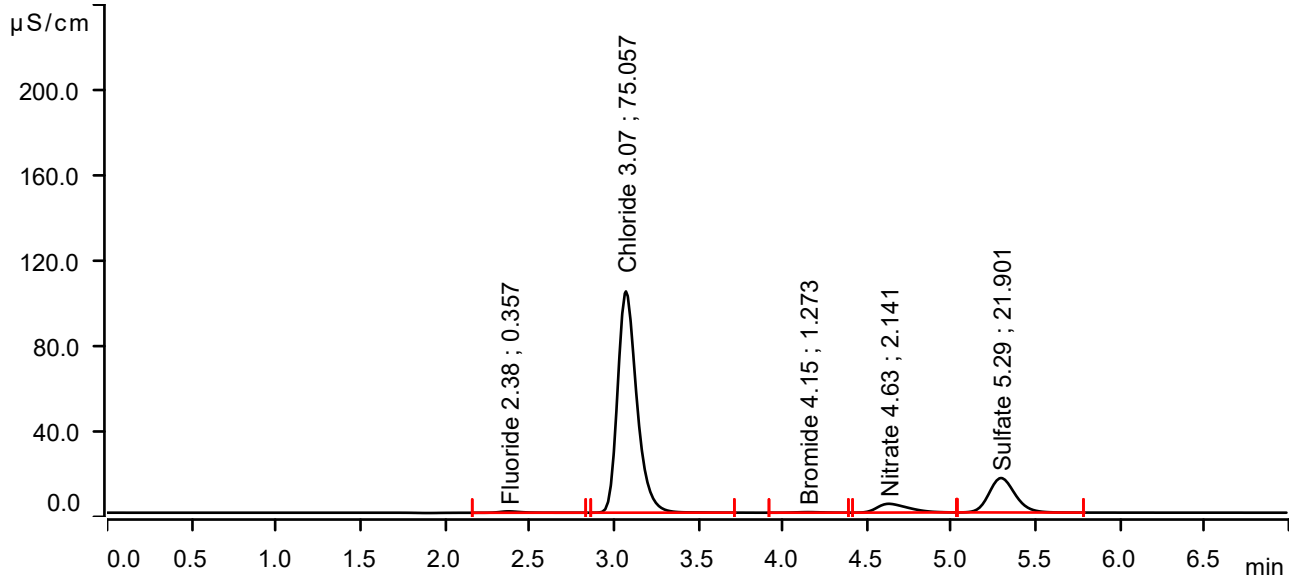
2023-07-18 10:19:24

Injection Time **2023-07-14 11:03:14 UTC-4**

Sample data

Ident	3312734001	
Sample type	Sample	
Position	18	
Injections	1	
Injection counter	1	
Volume	20	µL
Dilution	2	
Sample amount	1	
Comments (Info 2)	FILT	
Analyst (Info 3)	J1W	
Instrument (Info 4)	IC-12	

Anions



Peak number	Component name	Retention time min	Area (µS/cm) x min	Height µS/cm	Concentration ppm
1	Fluoride	2.380	0.0938	0.652	0.357
2	Chloride	3.073	13.7105	103.683	75.057
3	Bromide	4.150	0.0455	0.262	1.273
4	Nitrate	4.628	0.8791	4.108	2.141
5	Sulfate	5.293	2.8917	16.134	21.901

F Concentration on Column	0.178	ppm
Cl Concentration on Column	37.528	ppm
NO2 Concentration on Column	invalid	ppm
Br Concentration on Column	0.636	ppm
NO3 Concentration on Column	1.071	ppm
SO4 Concentration on Column	10.951	ppm

MagIC Net

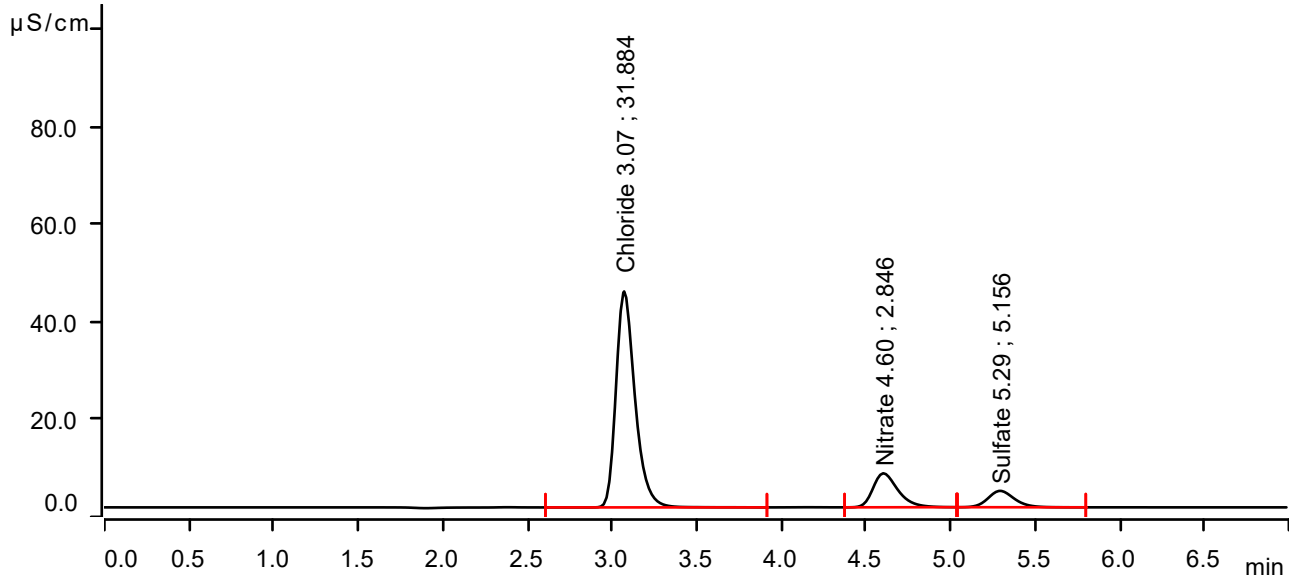
2023-07-18 10:19:25

Injection Time **2023-07-14 11:13:41 UTC-4**

Sample data

Ident	3312734002	
Sample type	Sample	
Position	19	
Injections	1	
Injection counter	1	
Volume	20	µL
Dilution	2	
Sample amount	1	
Comments (Info 2)	FILT	
Analyst (Info 3)	J1W	
Instrument (Info 4)	IC-12	

Anions



Peak number	Component name	Retention time	Area	Height	Concentration
		min	(µS/cm) x min	µS/cm	ppm
1	Chloride	3.072	5.7753	44.269	31.884
2	Nitrate	4.603	1.1893	6.956	2.846
3	Sulfate	5.292	0.6045	3.356	5.156

F Concentration on Column	invalid	ppm
Cl Concentration on Column	15.942	ppm
NO2 Concentration on Column	invalid	ppm
Br Concentration on Column	invalid	ppm
NO3 Concentration on Column	1.423	ppm
SO4 Concentration on Column	2.578	ppm

MagIC Net

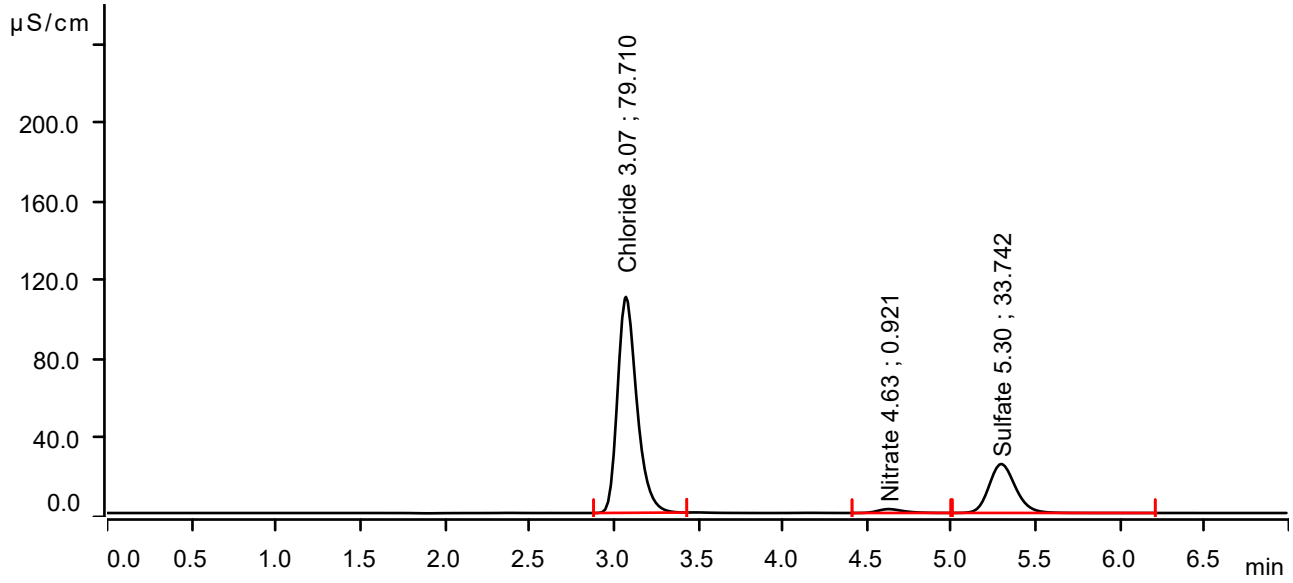
2023-07-18 10:19:26

Injection Time **2023-07-14 11:24:09 UTC-4**

Sample data

Ident	3312839001	
Sample type	Sample	
Position	20	
Injections	1	
Injection counter	1	
Volume	20	µL
Dilution	2	
Sample amount	1	
Comments (Info 2)	FILT	
Analyst (Info 3)	J1W	
Instrument (Info 4)	IC-12	

Anions



Peak number	Component name	Retention time	Area	Height	Concentration
		min	(µS/cm) x min	µS/cm	ppm
1	Chloride	3.073	14.5643	109.605	79.710
2	Nitrate	4.628	0.3442	1.960	0.921
3	Sulfate	5.295	4.5046	24.840	33.742

F Concentration on Column	invalid	ppm
Cl Concentration on Column	39.855	ppm
NO2 Concentration on Column	invalid	ppm
Br Concentration on Column	invalid	ppm
NO3 Concentration on Column	0.461	ppm
SO4 Concentration on Column	16.871	ppm

MagIC Net

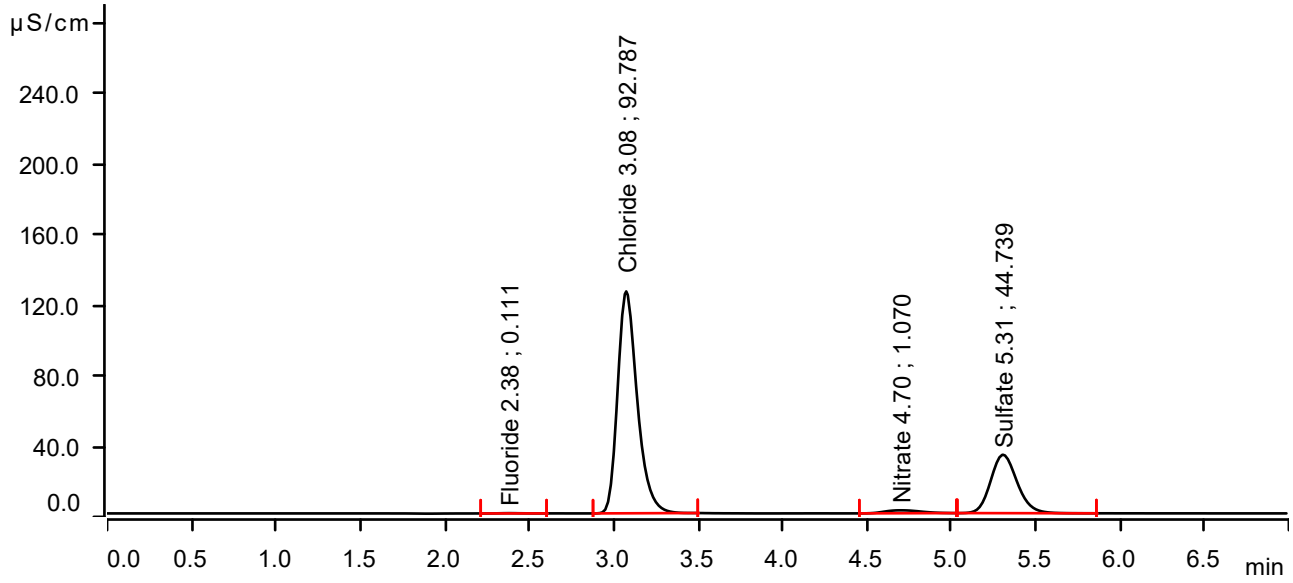
2023-07-18 10:19:27

Injection Time **2023-07-14 11:34:37 UTC-4**

Sample data

Ident	3312845001	
Sample type	Sample	
Position	21	
Injections	1	
Injection counter	1	
Volume	20	µL
Dilution	2	
Sample amount	1	
Comments (Info 2)	FILT	
Analyst (Info 3)	J1W	
Instrument (Info 4)	IC-12	

Anions



Peak number	Component name	Retention time	Area	Height	Concentration
		min	(µS/cm) x min	µS/cm	ppm
1	Fluoride	2.380	0.0201	0.149	0.111
2	Chloride	3.075	16.9615	125.632	92.787
3	Nitrate	4.702	0.4093	1.670	1.070
4	Sulfate	5.305	5.9994	33.070	44.739

F Concentration on Column	0.055	ppm
Cl Concentration on Column	46.393	ppm
NO2 Concentration on Column	invalid	ppm
Br Concentration on Column	invalid	ppm
NO3 Concentration on Column	0.535	ppm
SO4 Concentration on Column	22.369	ppm

MagIC Net

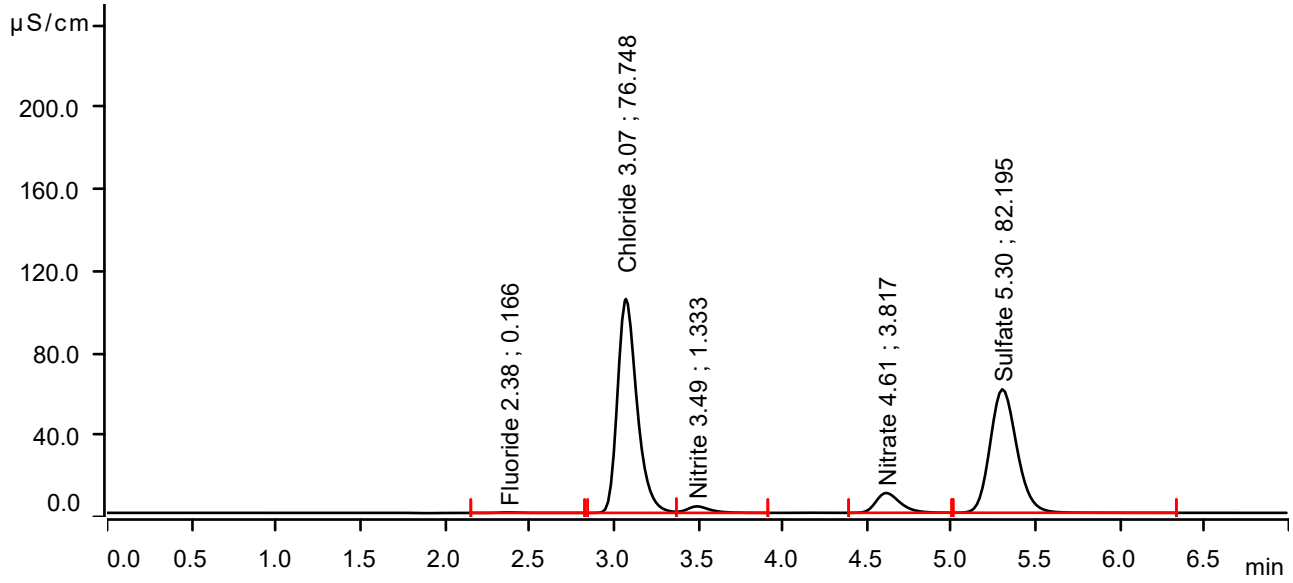
2023-07-18 10:19:28

Injection Time **2023-07-14 11:45:05 UTC-4**

Sample data

Ident	3312846001	
Sample type	Sample	
Position	22	
Injections	1	
Injection counter	1	
Volume	20	µL
Dilution	2	
Sample amount	1	
Comments (Info 2)	FILT	
Analyst (Info 3)	J1W	
Instrument (Info 4)	IC-12	

Anions



Peak number	Component name	Retention time	Area	Height	Concentration
		min	(µS/cm) x min	µS/cm	ppm
1	Fluoride	2.378	0.0369	0.241	0.166
2	Chloride	3.073	14.0208	104.379	76.748
3	Nitrite	3.493	0.5058	3.167	1.333
4	Nitrate	4.613	1.6177	9.659	3.817
5	Sulfate	5.302	11.0674	60.250	82.195

F Concentration on Column	0.083	ppm
Cl Concentration on Column	38.374	ppm
NO2 Concentration on Column	0.667	ppm
Br Concentration on Column	invalid	ppm
NO3 Concentration on Column	1.909	ppm
SO4 Concentration on Column	41.097	ppm

MagIC Net

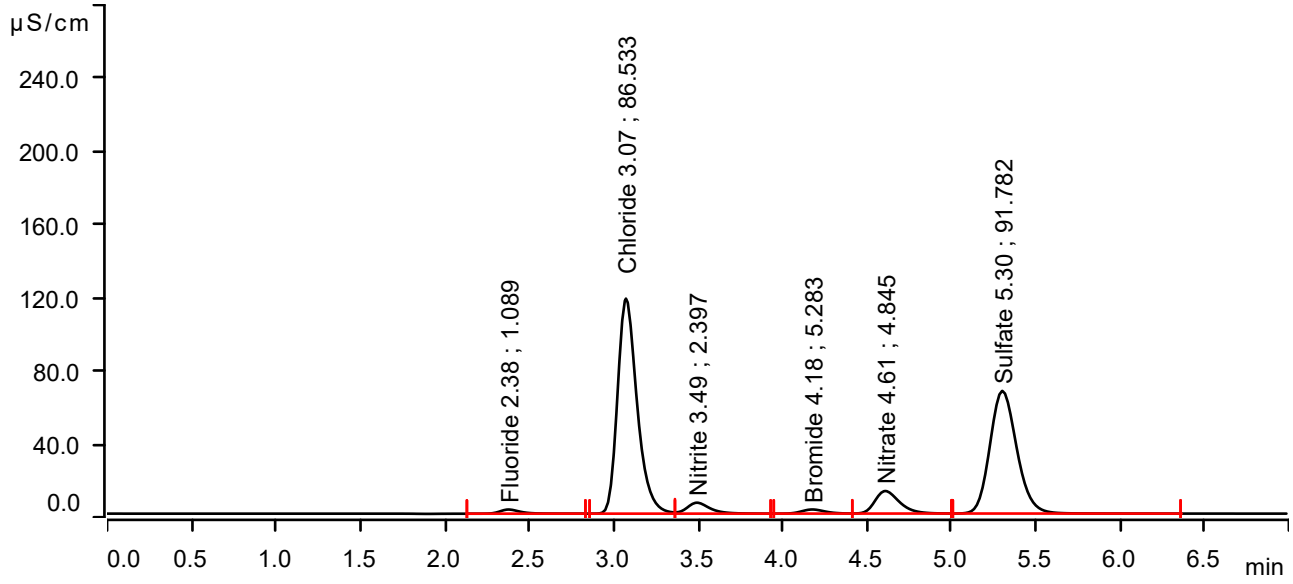
2023-07-18 10:19:29

Injection Time **2023-07-14 11:55:34 UTC-4**

Sample data

Ident	3695213	
Sample type	Spiking 1	
Position	23	
Injections	1	
Injection counter	1	
Volume	20	µL
Dilution	2	
Sample amount	1	
Commands (Info 1)		
Comments (Info 2)	MS, FILT	
Analyst (Info 3)	J1W	
Instrument (Info 4)	IC-12	

Anions



Peak number	Component name	Retention time	Area	Height	Concentration
		min	(µS/cm) x min	µS/cm	ppm
1	Fluoride	2.378	0.3125	2.270	1.089
2	Chloride	3.073	15.8153	117.550	86.533
3	Nitrite	3.493	0.9408	5.978	2.397
4	Bromide	4.177	0.3583	2.248	5.283
5	Nitrate	4.608	2.0728	12.314	4.845
6	Sulfate	5.302	12.3588	67.040	91.782

F Concentration on Column	0.545	ppm
Cl Concentration on Column	43.266	ppm
NO2 Concentration on Column	1.199	ppm
Br Concentration on Column	2.642	ppm
NO3 Concentration on Column	2.422	ppm
SO4 Concentration on Column	45.891	ppm

MagIC Net

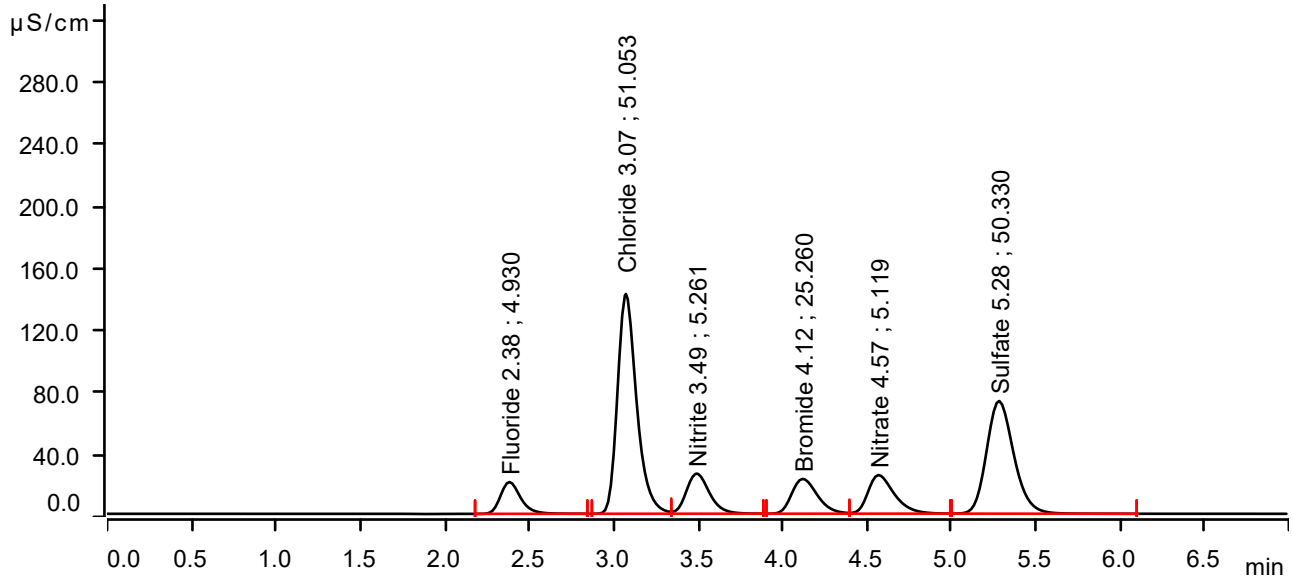
2023-07-18 10:19:31

Injection Time **2023-07-14 12:06:03 UTC-4**

Sample data

Ident	3695214
Sample type	Check standard 3
Position	131
Injections	1
Injection counter	1
Volume	20 µL
Dilution	1
Sample amount	1
Comments (Info 2)	LCS/CCV
Analyst (Info 3)	J1W
Instrument (Info 4)	IC-12

Anions



Peak number	Component name	Retention time	Area	Height	Concentration
		min	(µS/cm) x min	µS/cm	ppm
1	Fluoride	2.383	2.8391	20.452	4.930
2	Chloride	3.073	18.6685	141.594	51.053
3	Nitrite	3.492	4.1151	25.823	5.261
4	Bromide	4.120	3.9473	22.374	25.260
5	Nitrate	4.568	4.4909	24.838	5.119
6	Sulfate	5.282	13.5525	72.542	50.330

F Concentration on Column	4.930	ppm
Cl Concentration on Column	51.053	ppm
NO2 Concentration on Column	5.261	ppm
Br Concentration on Column	25.260	ppm
NO3 Concentration on Column	5.119	ppm
SO4 Concentration on Column	50.330	ppm

ALS

MagIC Net

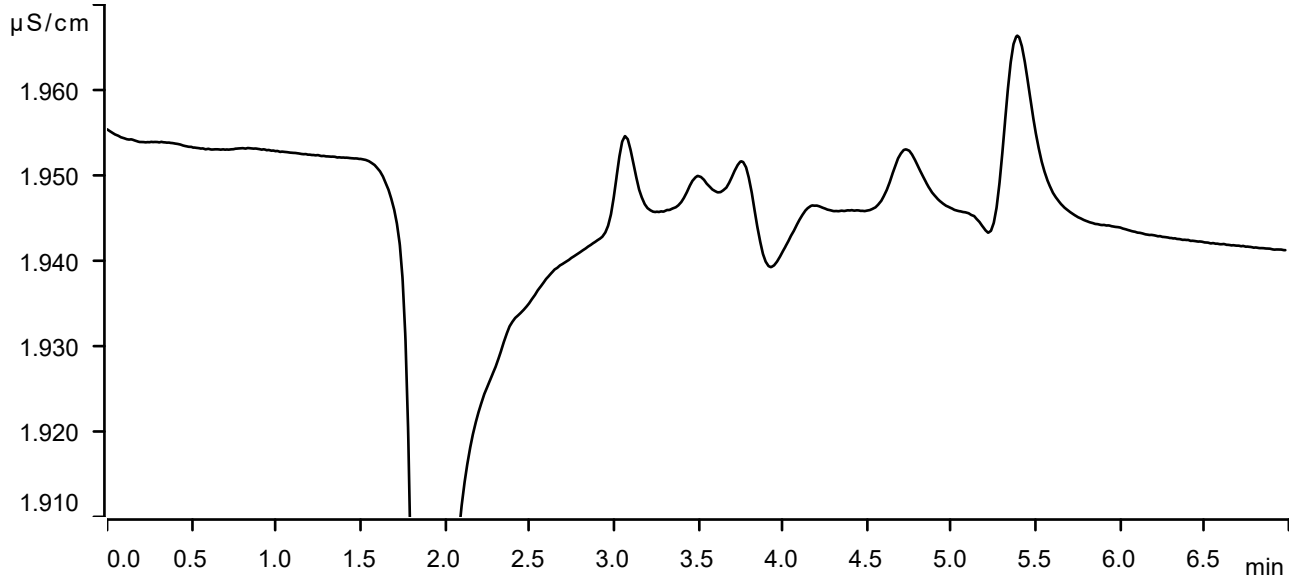
2023-07-18 10:19:32

Injection Time **2023-07-14 12:16:31 UTC-4**

Sample data

Ident	3695215	
Sample type	Sample	
Position	120	
Injections	1	
Injection counter	1	
Volume	20	µL
Dilution	1	
Sample amount	1	
Comments (Info 2)	MB	
Analyst (Info 3)	J1W	
Instrument (Info 4)	IC-12	

Anions



F Concentration on Column	invalid	ppm
Cl Concentration on Column	invalid	ppm
NO2 Concentration on Column	invalid	ppm
Br Concentration on Column	invalid	ppm
NO3 Concentration on Column	invalid	ppm
SO4 Concentration on Column	invalid	ppm

ALS

MagIC Net

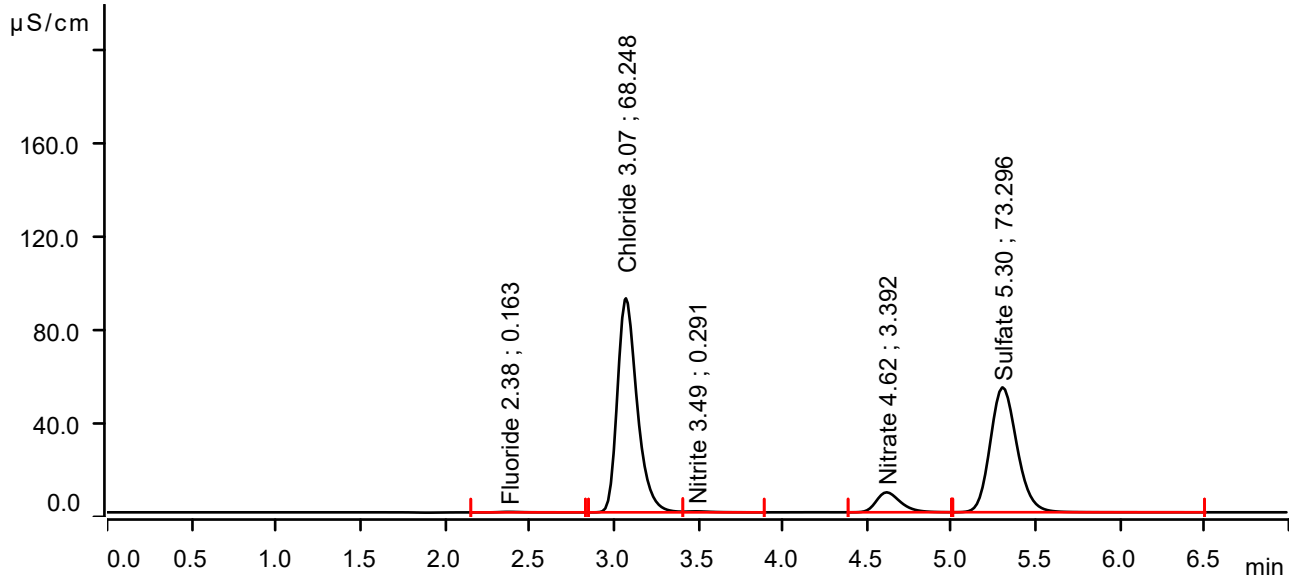
2023-07-18 10:19:33

Injection Time **2023-07-14 12:26:54 UTC-4**

Sample data

Ident	3312846004	
Sample type	Sample	
Position	24	
Injections	1	
Injection counter	1	
Volume	20	µL
Dilution	2	
Sample amount	1	
Comments (Info 2)	FILT	
Analyst (Info 3)	J1W	
Instrument (Info 4)	IC-12	

Anions



Peak number	Component name	Retention time	Area	Height	Concentration
		min	(µS/cm) x min	µS/cm	ppm
1	Fluoride	2.380	0.0359	0.229	0.163
2	Chloride	3.073	12.4608	91.909	68.248
3	Nitrite	3.490	0.0755	0.416	0.291
4	Nitrate	4.617	1.4299	8.553	3.392
5	Sulfate	5.303	9.8667	53.617	73.296

F Concentration on Column	0.082	ppm
Cl Concentration on Column	34.124	ppm
NO2 Concentration on Column	0.146	ppm
Br Concentration on Column	invalid	ppm
NO3 Concentration on Column	1.696	ppm
SO4 Concentration on Column	36.648	ppm

MagIC Net

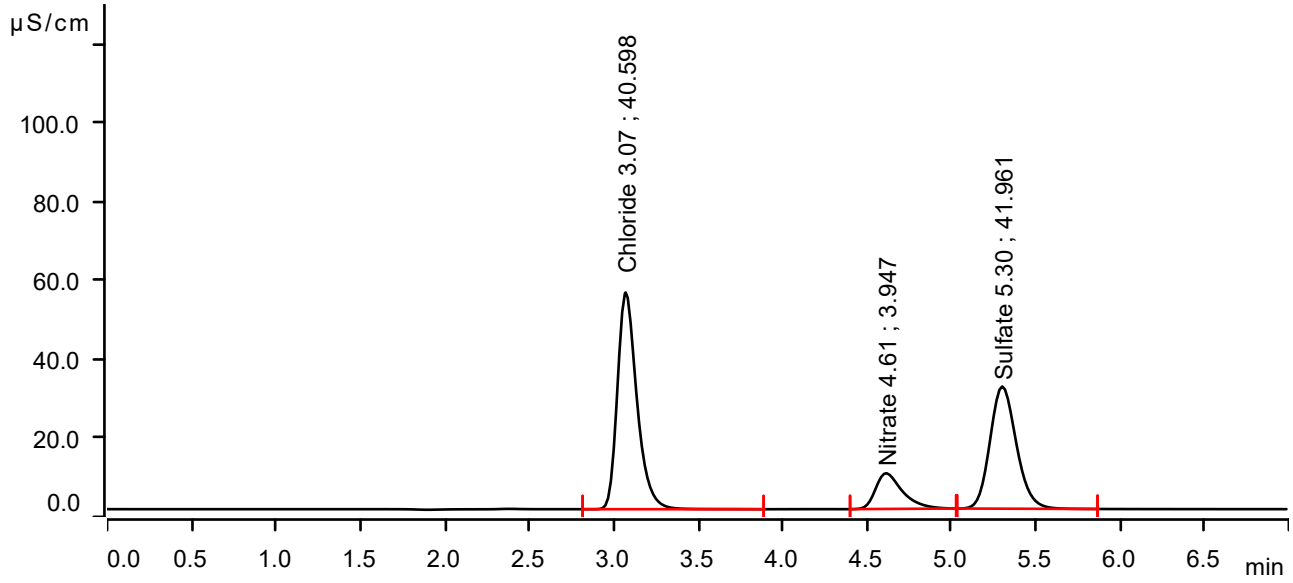
2023-07-18 10:19:34

Injection Time **2023-07-14 12:37:23 UTC-4**

Sample data

Ident	3312850002	
Sample type	Sample	
Position	25	
Injections	1	
Injection counter	1	
Volume	20	µL
Dilution	2	
Sample amount	1	
Comments (Info 2)	FILT	
Analyst (Info 3)	J1W	
Instrument (Info 4)	IC-12	

Anions



Peak number	Component name	Retention time	Area	Height	Concentration
		min	(µS/cm) x min	µS/cm	ppm
1	Chloride	3.072	7.3791	55.013	40.598
2	Nitrate	4.613	1.6751	9.050	3.947
3	Sulfate	5.302	5.6221	31.006	41.961

F Concentration on Column	invalid	ppm
Cl Concentration on Column	20.299	ppm
NO2 Concentration on Column	invalid	ppm
Br Concentration on Column	invalid	ppm
NO3 Concentration on Column	1.973	ppm
SO4 Concentration on Column	20.980	ppm

MagIC Net

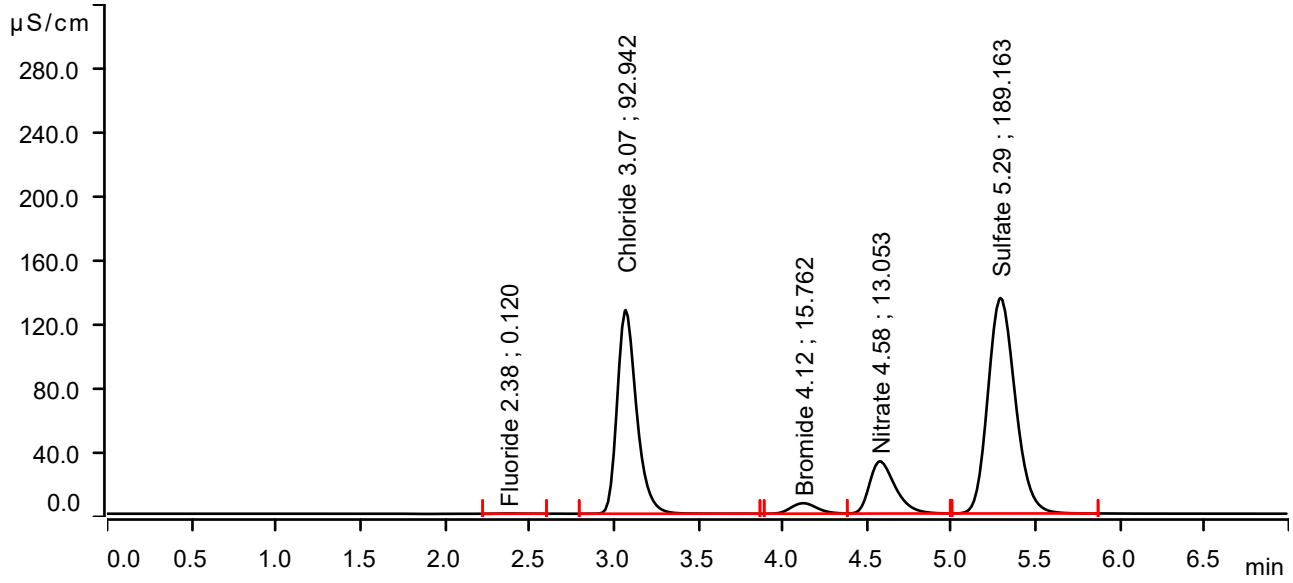
2023-07-18 10:19:35

Injection Time **2023-07-14 12:47:53 UTC-4**

Sample data

Ident	3312858001	
Sample type	Sample	
Position	26	
Injections	1	
Injection counter	1	
Volume	20	µL
Dilution	2	
Sample amount	1	
Comments (Info 2)	FILT	
Analyst (Info 3)	J1W	
Instrument (Info 4)	IC-12	

Anions



Peak number	Component name	Retention time min	Area (µS/cm) x min	Height µS/cm	Concentration ppm
1	Fluoride	2.378	0.0228	0.167	0.120
2	Chloride	3.072	16.9900	127.236	92.942
3	Bromide	4.123	1.1797	6.536	15.762
4	Nitrate	4.577	5.7718	32.643	13.053
5	Sulfate	5.290	25.3423	134.637	189.163

F Concentration on Column	0.060	ppm
Cl Concentration on Column	46.471	ppm
NO2 Concentration on Column	invalid	ppm
Br Concentration on Column	7.881	ppm
NO3 Concentration on Column	6.526	ppm
SO4 Concentration on Column	94.581	ppm

MagIC Net

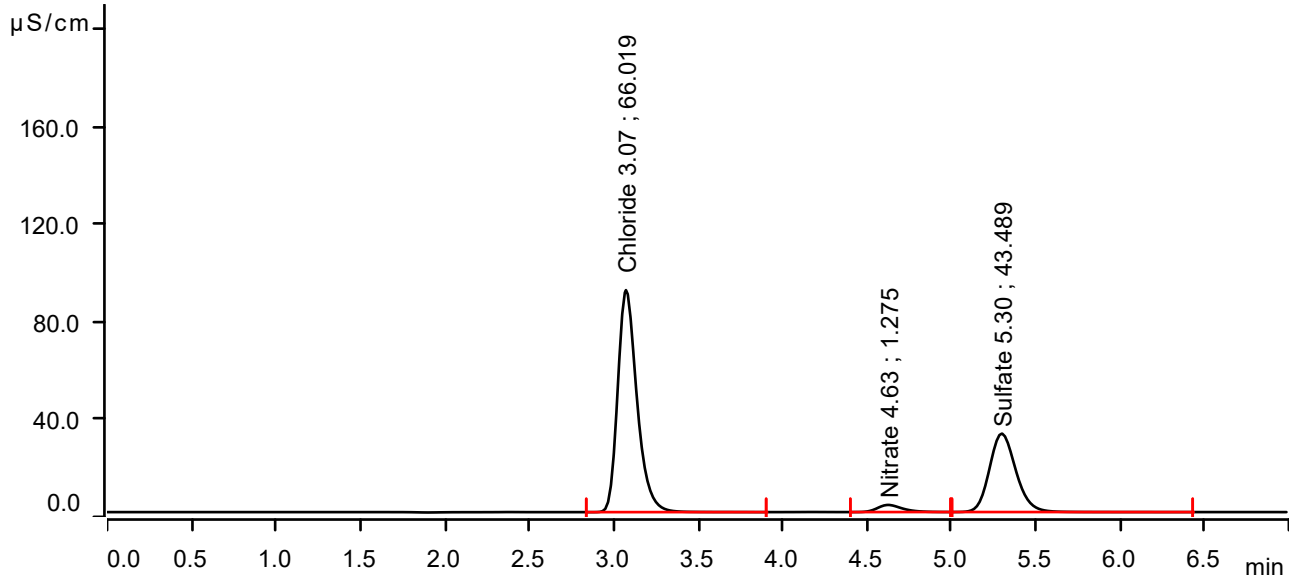
2023-07-18 10:19:36

Injection Time **2023-07-14 12:58:23 UTC-4**

Sample data

Ident	3312863001	
Sample type	Sample	
Position	27	
Injections	1	
Injection counter	1	
Volume	20	µL
Dilution	2	
Sample amount	1	
Comments (Info 2)	FILT	
Analyst (Info 3)	J1W	
Instrument (Info 4)	IC-12	

Anions



Peak number	Component name	Retention time	Area	Height	Concentration
		min	(µS/cm) x min	µS/cm	ppm
1	Chloride	3.073	12.0516	91.021	66.019
2	Nitrate	4.625	0.4992	2.922	1.275
3	Sulfate	5.298	5.8297	32.138	43.489

F Concentration on Column	invalid	ppm
Cl Concentration on Column	33.009	ppm
NO2 Concentration on Column	invalid	ppm
Br Concentration on Column	invalid	ppm
NO3 Concentration on Column	0.638	ppm
SO4 Concentration on Column	21.744	ppm

MagIC Net

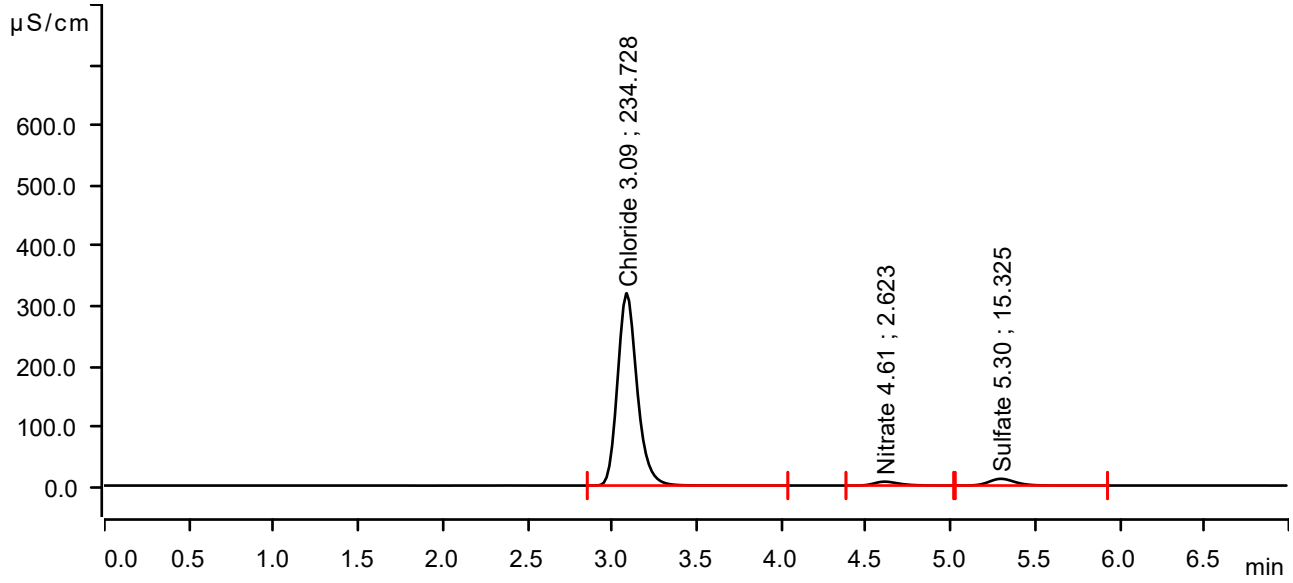
2023-07-18 10:19:37

Injection Time **2023-07-14 13:08:52 UTC-4**

Sample data

Ident	3312863002	
Sample type	Sample	
Position	28	
Injections	1	
Injection counter	1	
Volume	20	µL
Dilution	2	
Sample amount	1	
Comments (Info 2)	FILT	
Analyst (Info 3)	J1W	
Instrument (Info 4)	IC-12	

Anions



Peak number	Component name	Retention time	Area	Height	Concentration
		min	(µS/cm) x min	µS/cm	ppm
1	Chloride	3.087	42.8229	319.103	234.728
2	Nitrate	4.610	1.0908	6.422	2.623
3	Sulfate	5.297	1.9944	11.137	15.325

F Concentration on Column	invalid	ppm
Cl Concentration on Column	117.364	ppm
NO2 Concentration on Column	invalid	ppm
Br Concentration on Column	invalid	ppm
NO3 Concentration on Column	1.311	ppm
SO4 Concentration on Column	7.663	ppm

ALS

MagIC Net

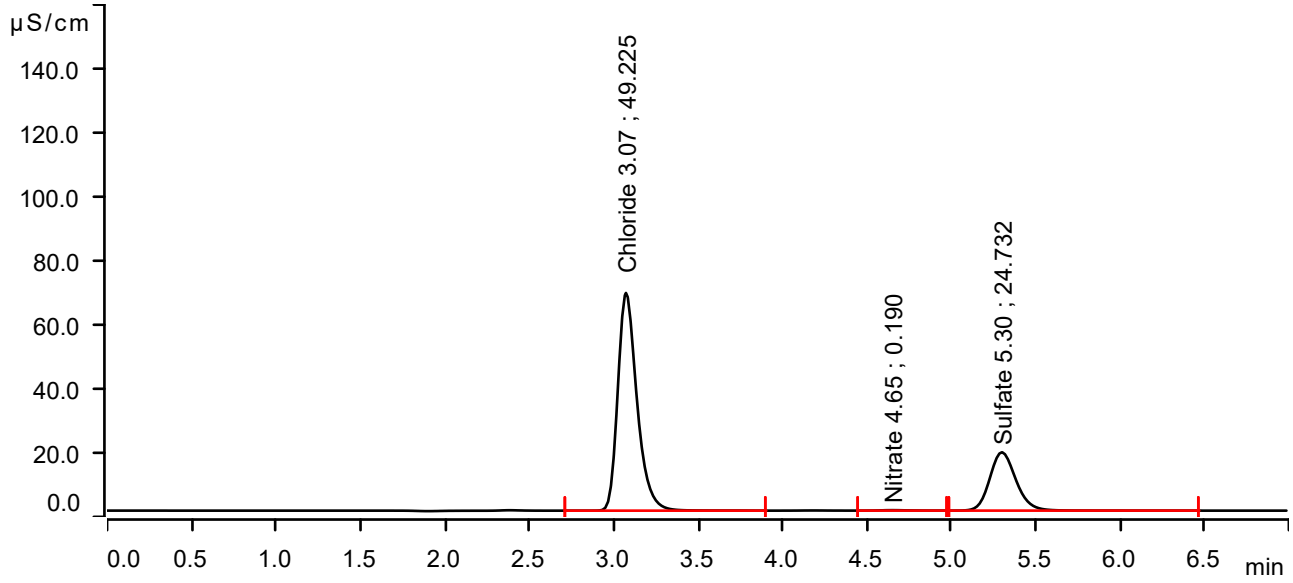
2023-07-18 10:19:38

Injection Time 2023-07-14 13:19:22 UTC-4

Sample data

Ident	3312863003	
Sample type	Sample	
Position	29	
Injections	1	
Injection counter	1	
Volume	20	µL
Dilution	2	
Sample amount	1	
Comments (Info 2)	FILT	
Analyst (Info 3)	J1W	
Instrument (Info 4)	IC-12	

Anions



Peak number	Component name	Retention time	Area	Height	Concentration
		min	(µS/cm) x min	µS/cm	ppm
1	Chloride	3.073	8.9658	68.003	49.225
2	Nitrate	4.650	0.0249	0.136	0.190
3	Sulfate	5.298	3.2776	18.211	24.732

F Concentration on Column	invalid	ppm
Cl Concentration on Column	24.612	ppm
NO2 Concentration on Column	invalid	ppm
Br Concentration on Column	invalid	ppm
NO3 Concentration on Column	0.095	ppm
SO4 Concentration on Column	12.366	ppm

MagIC Net

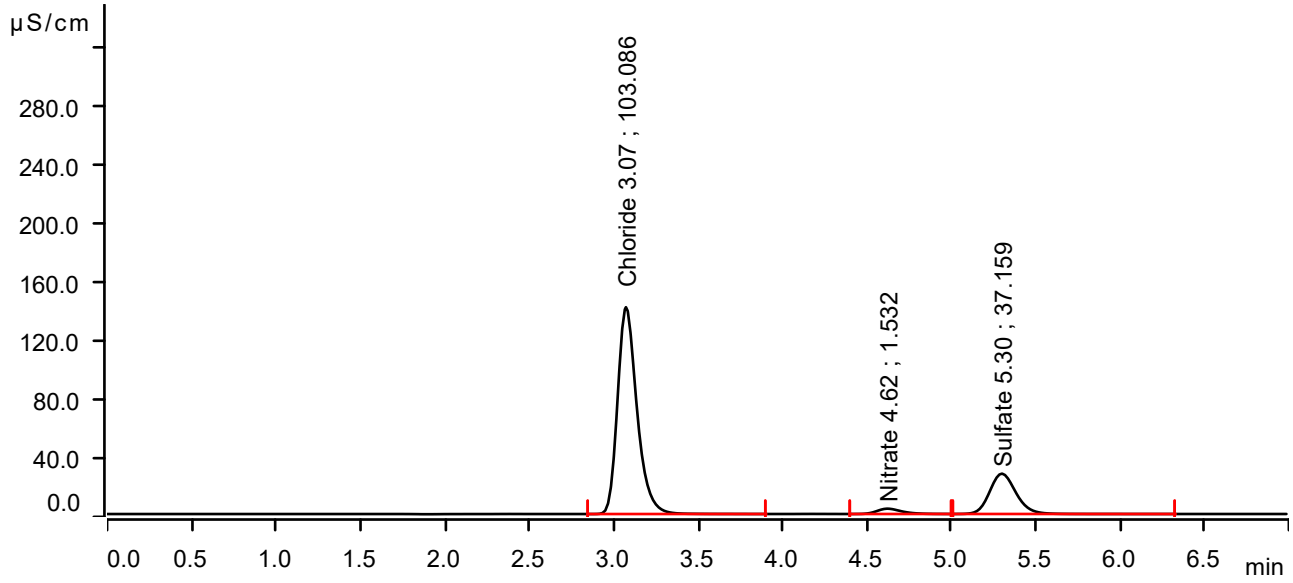
2023-07-18 10:19:39

Injection Time **2023-07-14 13:29:50 UTC-4**

Sample data

Ident	3312863004	
Sample type	Sample	
Position	30	
Injections	1	
Injection counter	1	
Volume	20	µL
Dilution	2	
Sample amount	1	
Comments (Info 2)	FILT	
Analyst (Info 3)	J1W	
Instrument (Info 4)	IC-12	

Anions



Peak number	Component name	Retention time	Area	Height	Concentration
		min	(µS/cm) x min	µS/cm	ppm
1	Chloride	3.073	18.8479	141.331	103.086
2	Nitrate	4.622	0.6117	3.629	1.532
3	Sulfate	5.298	4.9695	27.522	37.159

F Concentration on Column	invalid	ppm
Cl Concentration on Column	51.543	ppm
NO2 Concentration on Column	invalid	ppm
Br Concentration on Column	invalid	ppm
NO3 Concentration on Column	0.766	ppm
SO4 Concentration on Column	18.580	ppm

MagIC Net

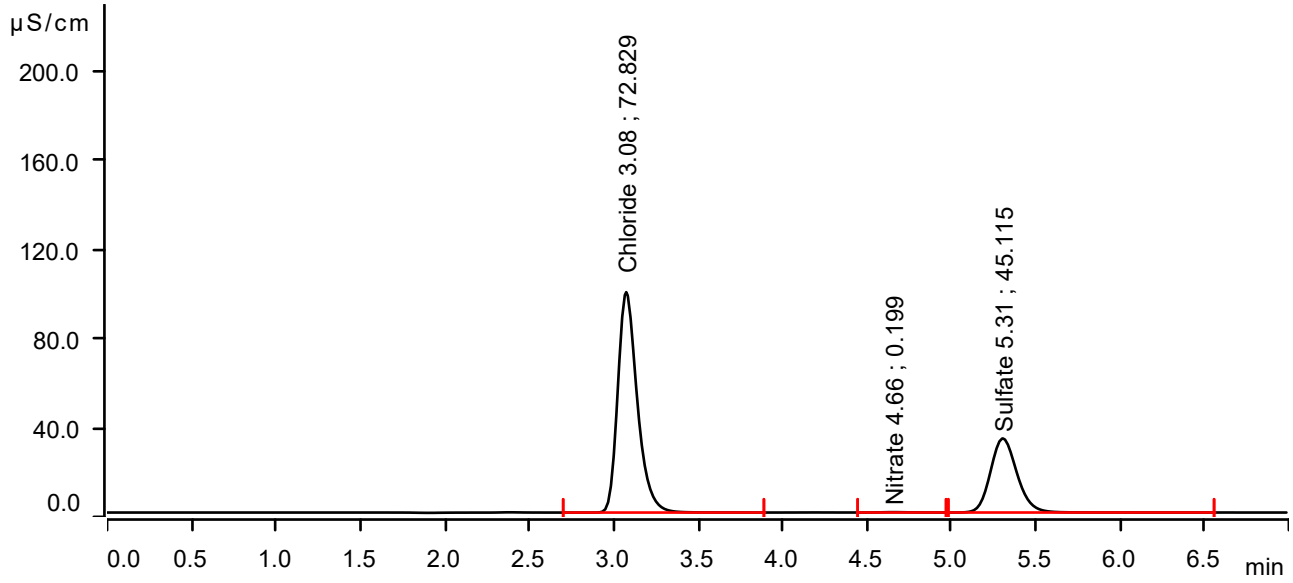
2023-07-18 10:19:40

Injection Time 2023-07-14 13:40:19 UTC-4

Sample data

Ident	3312863005	
Sample type	Sample	
Position	31	
Injections	1	
Injection counter	1	
Volume	20	µL
Dilution	2	
Sample amount	1	
Comments (Info 2)	FILT	
Analyst (Info 3)	J1W	
Instrument (Info 4)	IC-12	

Anions



Peak number	Component name	Retention time	Area	Height	Concentration
		min	(µS/cm) x min	µS/cm	ppm
1	Chloride	3.075	13.3018	98.971	72.829
2	Nitrate	4.655	0.0288	0.160	0.199
3	Sulfate	5.305	6.0505	33.258	45.115

F Concentration on Column	invalid	ppm
Cl Concentration on Column	36.415	ppm
NO2 Concentration on Column	invalid	ppm
Br Concentration on Column	invalid	ppm
NO3 Concentration on Column	0.099	ppm
SO4 Concentration on Column	22.558	ppm

MagIC Net

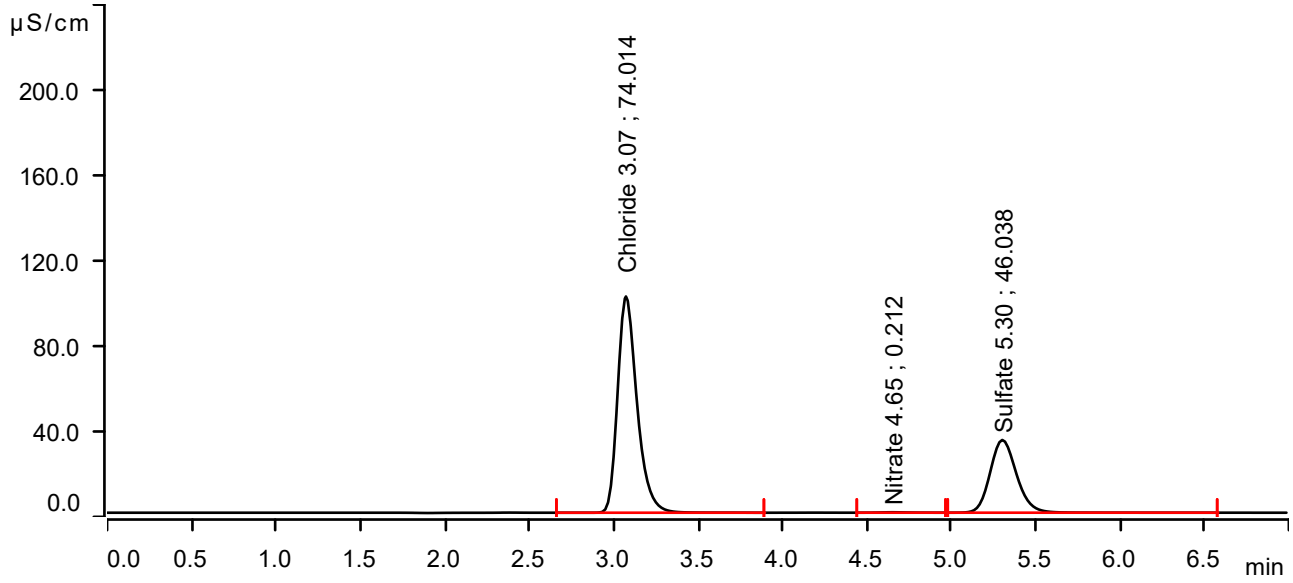
2023-07-18 10:19:41

Injection Time **2023-07-14 13:50:47 UTC-4**

Sample data

Ident	3312863006	
Sample type	Sample	
Position	32	
Injections	1	
Injection counter	1	
Volume	20	µL
Dilution	2	
Sample amount	1	
Comments (Info 2)	FILT	
Analyst (Info 3)	J1W	
Instrument (Info 4)	IC-12	

Anions



Peak number	Component name	Retention time	Area	Height	Concentration
		min	(µS/cm) x min	µS/cm	ppm
1	Chloride	3.073	13.5191	101.326	74.014
2	Nitrate	4.652	0.0343	0.193	0.212
3	Sulfate	5.302	6.1759	34.048	46.038

F Concentration on Column	invalid	ppm
Cl Concentration on Column	37.007	ppm
NO2 Concentration on Column	invalid	ppm
Br Concentration on Column	invalid	ppm
NO3 Concentration on Column	0.106	ppm
SO4 Concentration on Column	23.019	ppm

ALS

MagIC Net

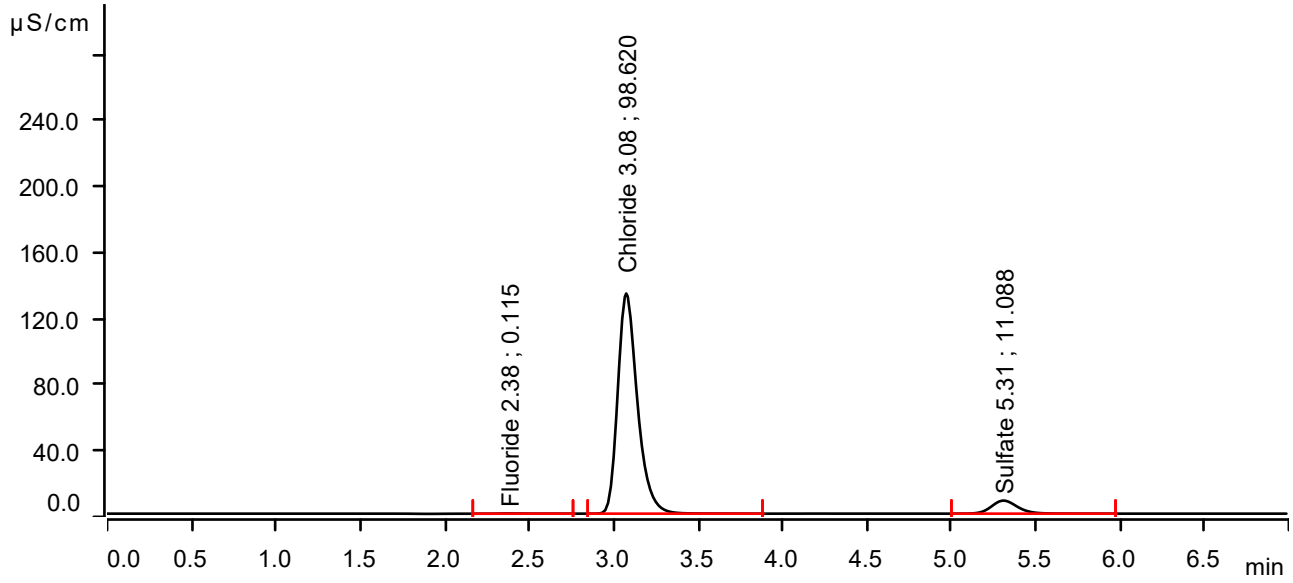
2023-07-18 10:19:42

Injection Time **2023-07-14 14:01:15 UTC-4**

Sample data

Ident	3312863007	
Sample type	Sample	
Position	33	
Injections	1	
Injection counter	1	
Volume	20	µL
Dilution	2	
Sample amount	1	
Comments (Info 2)	FILT	
Analyst (Info 3)	J1W	
Instrument (Info 4)	IC-12	

Anions



Peak number	Component name	Retention time	Area	Height	Concentration
		min	(µS/cm) x min	µS/cm	ppm
1	Fluoride	2.382	0.0214	0.145	0.115
2	Chloride	3.075	18.0301	133.256	98.620
3	Sulfate	5.308	1.4156	7.900	11.088

F Concentration on Column	0.058	ppm
Cl Concentration on Column	49.310	ppm
NO2 Concentration on Column	invalid	ppm
Br Concentration on Column	invalid	ppm
NO3 Concentration on Column	invalid	ppm
SO4 Concentration on Column	5.544	ppm

MagIC Net

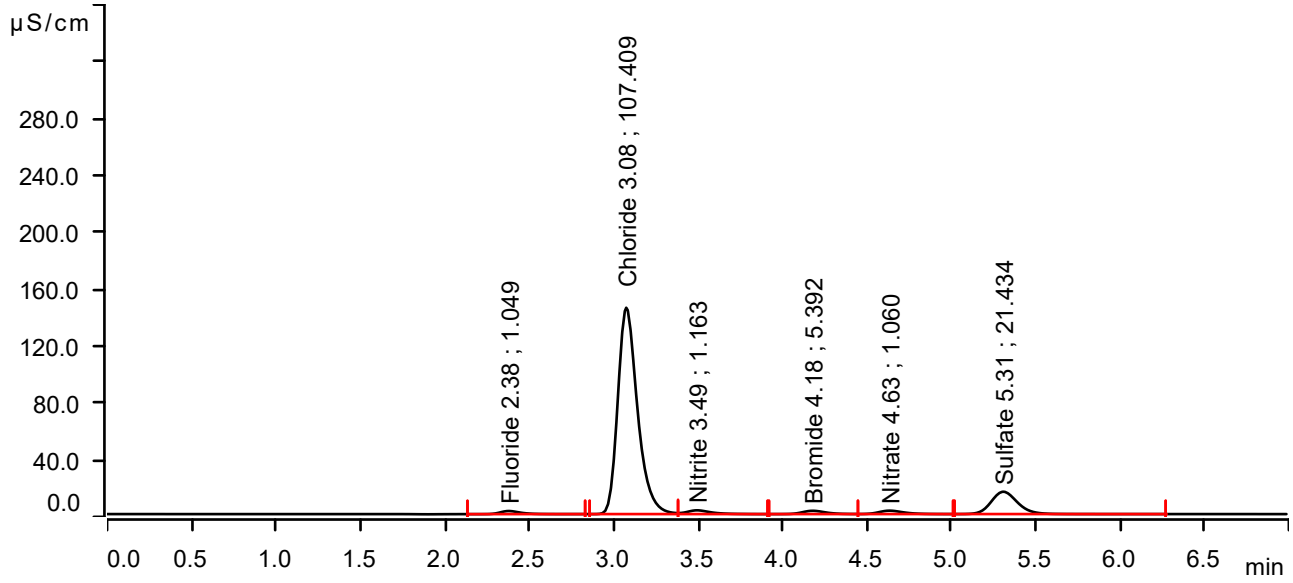
2023-07-18 10:19:43

Injection Time **2023-07-14 14:11:42 UTC-4**

Sample data

Ident	3695216	
Sample type	Spiking 1	
Position	34	
Injections	1	
Injection counter	1	
Volume	20	µL
Dilution	2	
Sample amount	1	
Comments (Info 2)	MS, FILT	
Analyst (Info 3)	J1W	
Instrument (Info 4)	IC-12	

Anions



Peak number	Component name	Retention time	Area	Height	Concentration
		min	(µS/cm) x min	µS/cm	ppm
1	Fluoride	2.380	0.3006	2.184	1.049
2	Chloride	3.075	19.6392	145.037	107.409
3	Nitrite	3.493	0.4358	2.650	1.163
4	Bromide	4.178	0.3668	2.309	5.392
5	Nitrate	4.633	0.4047	2.383	1.060
6	Sulfate	5.307	2.8280	15.702	21.434

F Concentration on Column	0.525	ppm
Cl Concentration on Column	53.705	ppm
NO2 Concentration on Column	0.582	ppm
Br Concentration on Column	2.696	ppm
NO3 Concentration on Column	0.530	ppm
SO4 Concentration on Column	10.717	ppm

MagIC Net

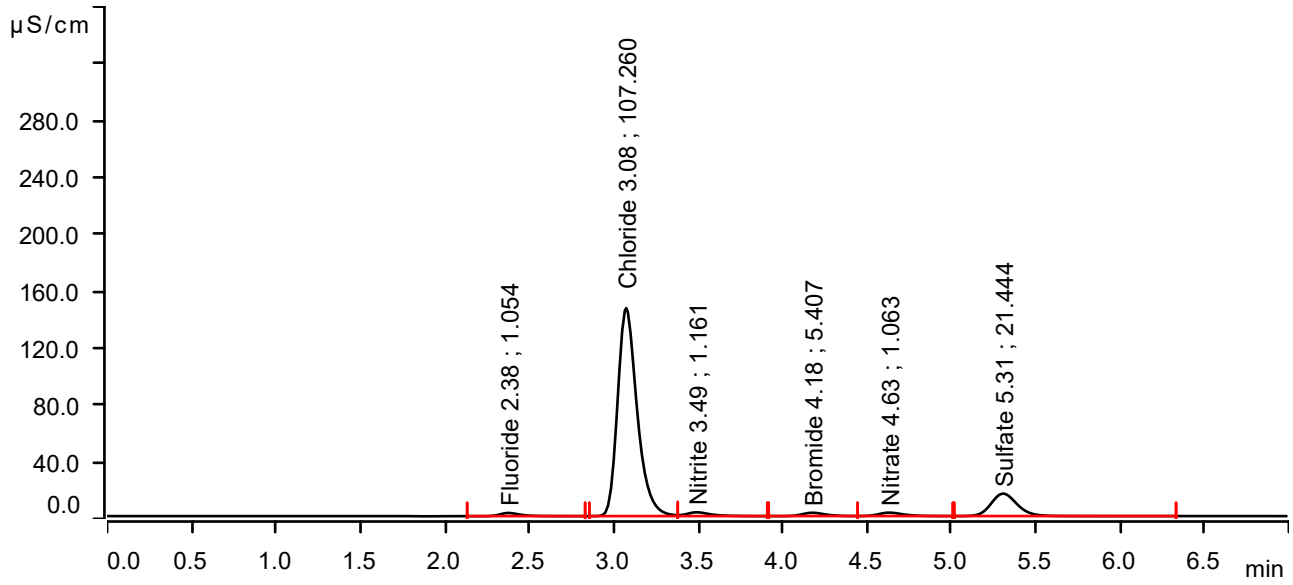
2023-07-18 10:19:44

Injection Time **2023-07-14 14:22:10 UTC-4**

Sample data

Ident	3695217	
Sample type	Spiking 1	
Position	35	
Injections	1	
Injection counter	1	
Volume	20	µL
Dilution	2	
Sample amount	1	
Comments (Info 2)	MSD, FILT	
Analyst (Info 3)	J1W	
Instrument (Info 4)	IC-12	

Anions



Peak number	Component name	Retention time	Area	Height	Concentration
		min	(µS/cm) x min	µS/cm	ppm
1	Fluoride	2.378	0.3018	2.219	1.054
2	Chloride	3.075	19.6120	146.177	107.260
3	Nitrite	3.493	0.4348	2.674	1.161
4	Bromide	4.178	0.3680	2.330	5.407
5	Nitrate	4.632	0.4064	2.407	1.063
6	Sulfate	5.307	2.8294	15.794	21.444

F Concentration on Column	0.527	ppm
Cl Concentration on Column	53.630	ppm
NO2 Concentration on Column	0.580	ppm
Br Concentration on Column	2.703	ppm
NO3 Concentration on Column	0.532	ppm
SO4 Concentration on Column	10.722	ppm

MagIC Net

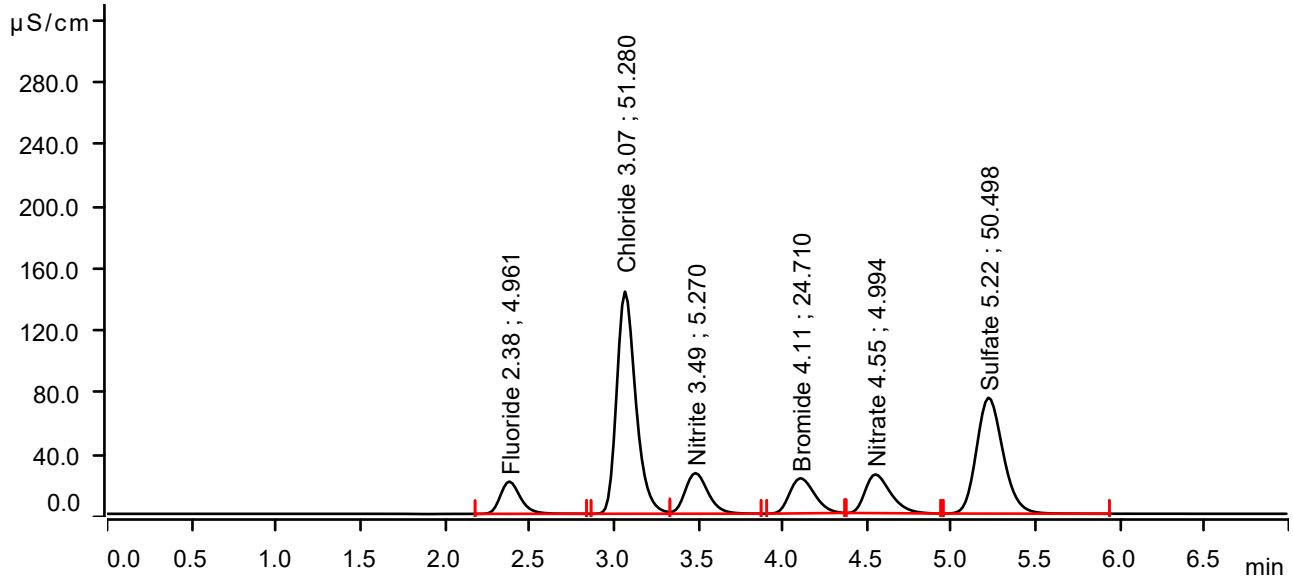
2023-07-18 10:19:46

Injection Time **2023-07-14 14:32:38 UTC-4**

Sample data

Ident	3695218
Sample type	Check standard 3
Position	131
Injections	1
Injection counter	1
Volume	20 µL
Dilution	1
Sample amount	1
Comments (Info 2)	CCV
Analyst (Info 3)	J1W
Instrument (Info 4)	IC-12

Anions



Peak number	Component name	Retention time	Area	Height	Concentration
		min	(µS/cm) x min	µS/cm	ppm
1	Fluoride	2.383	2.8567	20.737	4.961
2	Chloride	3.068	18.7516	143.057	51.280
3	Nitrite	3.485	4.1221	26.127	5.270
4	Bromide	4.107	3.8586	22.539	24.710
5	Nitrate	4.550	4.3778	24.923	4.994
6	Sulfate	5.220	13.5977	74.607	50.498

F Concentration on Column	4.961	ppm
Cl Concentration on Column	51.280	ppm
NO2 Concentration on Column	5.270	ppm
Br Concentration on Column	24.710	ppm
NO3 Concentration on Column	4.994	ppm
SO4 Concentration on Column	50.498	ppm

ALS

MagIC Net

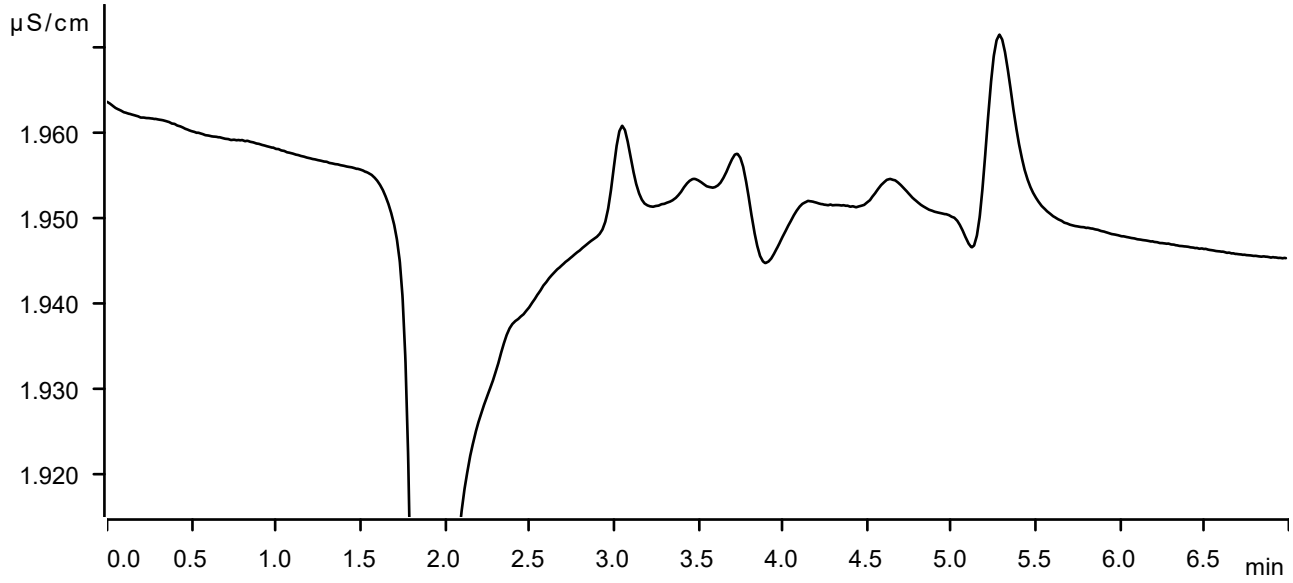
2023-07-18 10:19:47

Injection Time **2023-07-14 14:43:06 UTC-4**

Sample data

Ident	3695219	
Sample type	Sample	
Position	120	
Injections	1	
Injection counter	1	
Volume	20	µL
Dilution	1	
Sample amount	1	
Comments (Info 2)	MB	
Analyst (Info 3)	J1W	
Instrument (Info 4)	IC-12	

Anions



F Concentration on Column	invalid	ppm
Cl Concentration on Column	invalid	ppm
NO2 Concentration on Column	invalid	ppm
Br Concentration on Column	invalid	ppm
NO3 Concentration on Column	invalid	ppm
SO4 Concentration on Column	invalid	ppm

ALS

MagIC Net

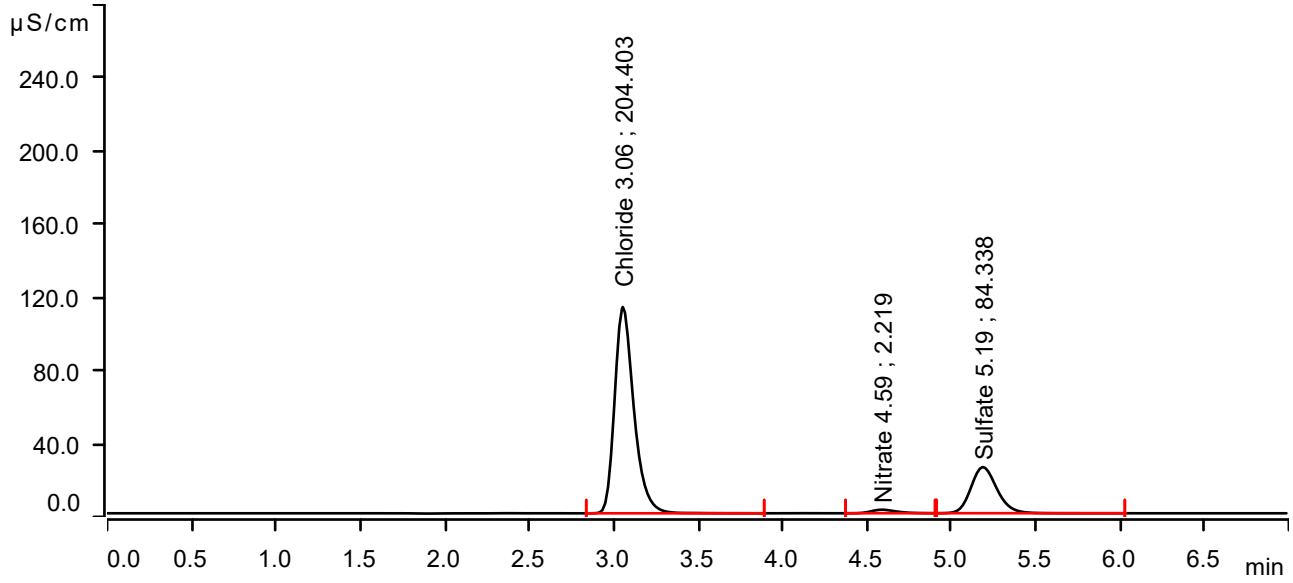
2023-07-18 10:19:48

Injection Time 2023-07-14 14:53:28 UTC-4

Sample data

Ident	3312865001	
Sample type	Sample	
Position	36	
Injections	1	
Injection counter	1	
Volume	20	µL
Dilution	5	
Sample amount	1	
Comments (Info 2)	FILT	
Analyst (Info 3)	J1W	
Instrument (Info 4)	IC-12	

Anions



Peak number	Component name	Retention time	Area	Height	Concentration
		min	(µS/cm) x min	µS/cm	ppm
1	Chloride	3.055	14.9404	112.743	204.403
2	Nitrate	4.588	0.3295	1.927	2.219
3	Sulfate	5.187	4.5038	25.213	84.338

F Concentration on Column	invalid	ppm
Cl Concentration on Column	40.881	ppm
NO2 Concentration on Column	invalid	ppm
Br Concentration on Column	invalid	ppm
NO3 Concentration on Column	0.444	ppm
SO4 Concentration on Column	16.868	ppm

MagIC Net

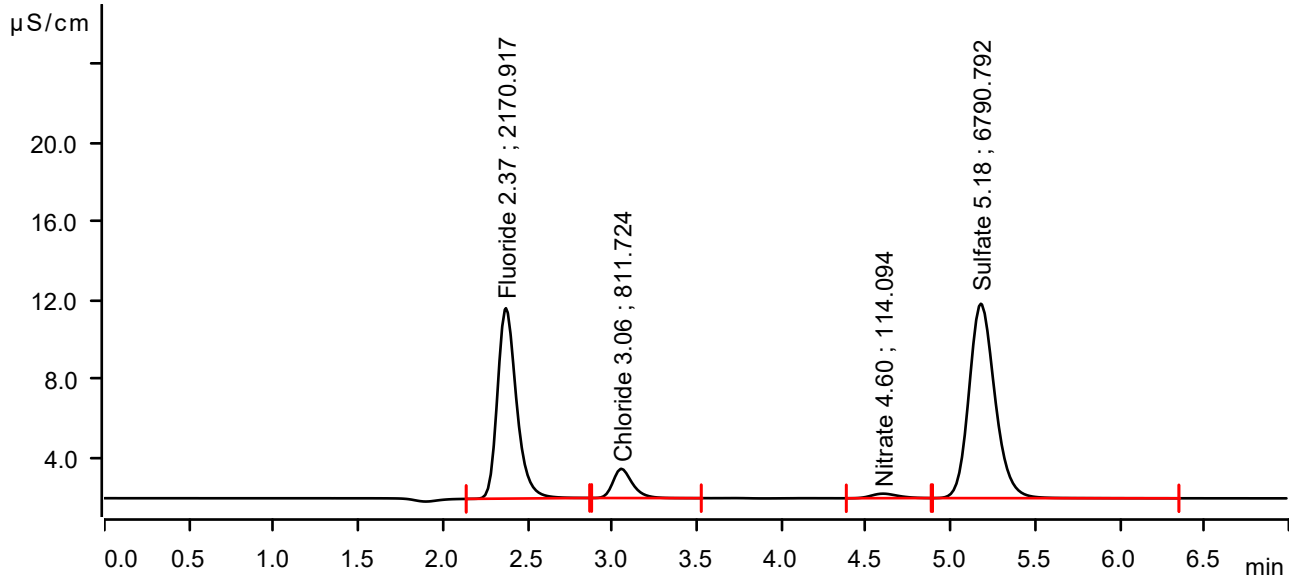
2023-07-18 10:19:49

Injection Time **2023-07-14 15:03:54 UTC-4**

Sample data

Ident	3312868001	
Sample type	Sample	
Position	37	
Injections	1	
Injection counter	1	
Volume	20	µL
Dilution	1000	
Sample amount	1	
Comments (Info 2)	FILT	
Analyst (Info 3)	J1W	
Instrument (Info 4)	IC-12	

Anions



Peak number	Component name	Retention time	Area	Height	Concentration
		min	(µS/cm) x min	µS/cm	ppm
1	Fluoride	2.373	1.2691	9.664	2170.917
2	Chloride	3.055	0.1972	1.482	811.724
3	Nitrate	4.600	0.0415	0.229	114.094
4	Sulfate	5.178	1.7563	9.867	6790.792

F Concentration on Column	2.171	ppm
Cl Concentration on Column	0.812	ppm
NO2 Concentration on Column	invalid	ppm
Br Concentration on Column	invalid	ppm
NO3 Concentration on Column	0.114	ppm
SO4 Concentration on Column	6.791	ppm

ALS

MagIC Net

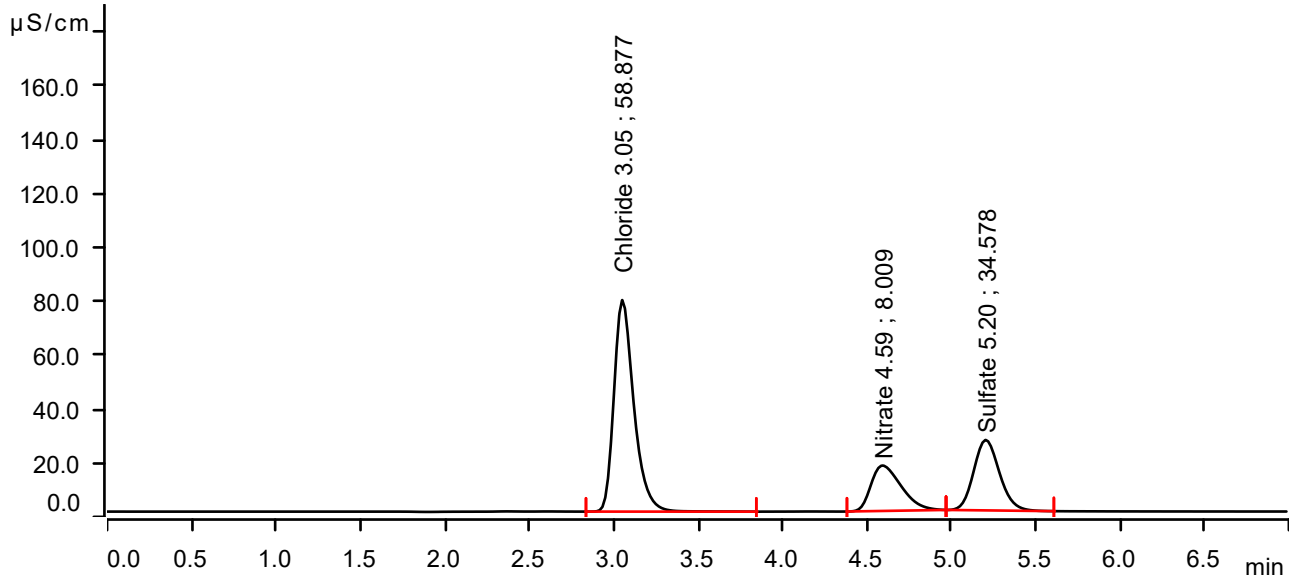
2023-07-18 10:19:50

Injection Time **2023-07-14 15:14:20 UTC-4**

Sample data

Ident	3312887001	
Sample type	Sample	
Position	38	
Injections	1	
Injection counter	1	
Volume	20	µL
Dilution	2	
Sample amount	1	
Comments (Info 2)	FILT	
Analyst (Info 3)	J1W	
Instrument (Info 4)	IC-12	

Anions



Peak number	Component name	Retention time	Area	Height	Concentration
		min	(µS/cm) x min	µS/cm	ppm
1	Chloride	3.052	10.7399	78.472	58.877
2	Nitrate	4.593	3.4856	16.845	8.009
3	Sulfate	5.203	4.6185	26.107	34.578

F Concentration on Column	invalid	ppm
Cl Concentration on Column	29.439	ppm
NO2 Concentration on Column	invalid	ppm
Br Concentration on Column	invalid	ppm
NO3 Concentration on Column	4.004	ppm
SO4 Concentration on Column	17.289	ppm

MagIC Net

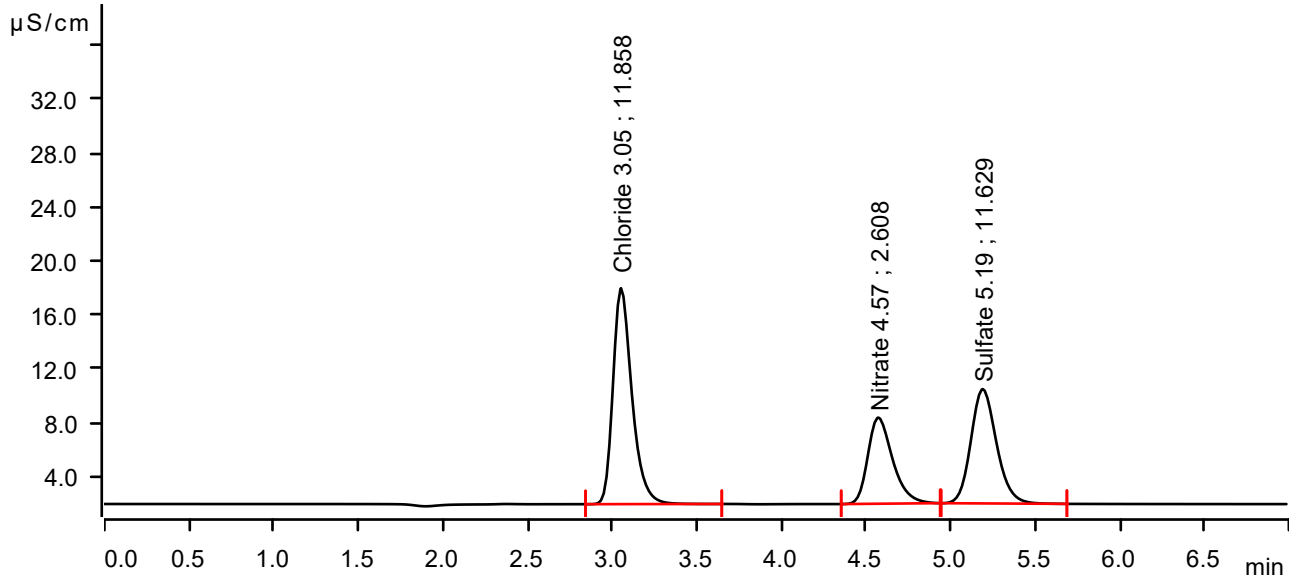
2023-07-18 10:19:51

Injection Time 2023-07-14 15:24:46 UTC-4

Sample data

Ident	3312919001	
Sample type	Sample	
Position	39	
Injections	1	
Injection counter	1	
Volume	20	µL
Dilution	2	
Sample amount	1	
Comments (Info 2)	FILT	
Analyst (Info 3)	J1W	
Instrument (Info 4)	IC-12	

Anions



Peak number	Component name	Retention time	Area	Height	Concentration
		min	(µS/cm) x min	µS/cm	ppm
1	Chloride	3.053	2.0853	16.017	11.858
2	Nitrate	4.573	1.0844	6.391	2.608
3	Sulfate	5.190	1.4895	8.478	11.629

F Concentration on Column	invalid	ppm
Cl Concentration on Column	5.929	ppm
NO2 Concentration on Column	invalid	ppm
Br Concentration on Column	invalid	ppm
NO3 Concentration on Column	1.304	ppm
SO4 Concentration on Column	5.814	ppm

ALS

MagIC Net

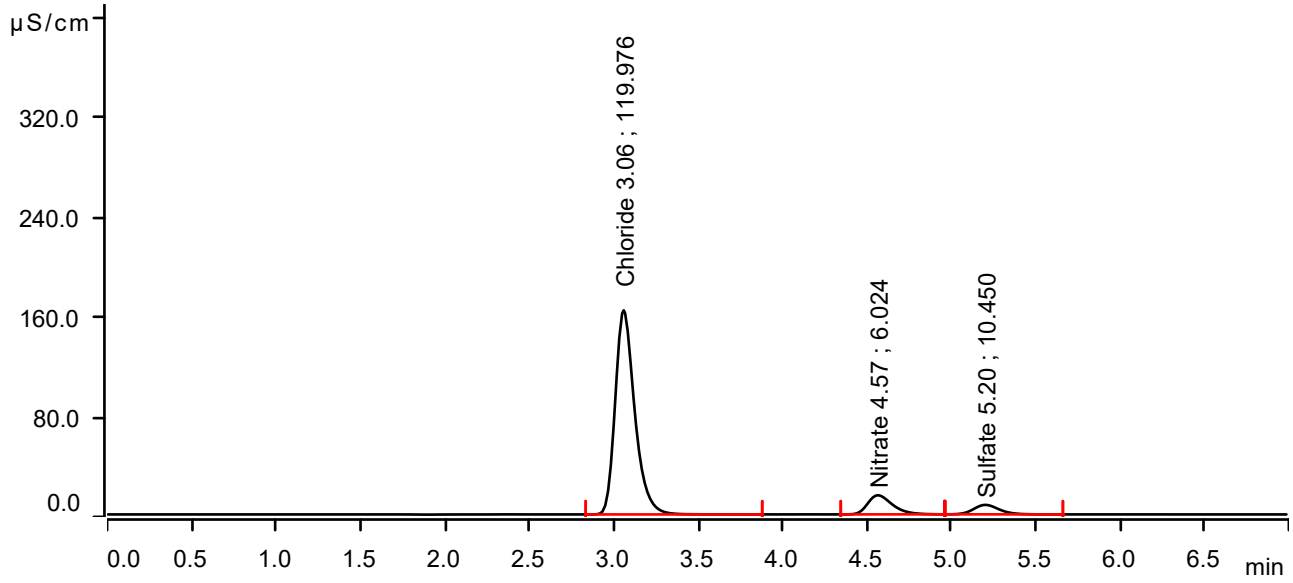
2023-07-18 10:19:52

Injection Time **2023-07-14 15:35:12 UTC-4**

Sample data

Ident	3312919002	
Sample type	Sample	
Position	40	
Injections	1	
Injection counter	1	
Volume	20	µL
Dilution	2	
Sample amount	1	
Comments (Info 2)	FILT	
Analyst (Info 3)	J1W	
Instrument (Info 4)	IC-12	

Anions



Peak number	Component name	Retention time	Area	Height	Concentration
		min	(µS/cm) x min	µS/cm	ppm
1	Chloride	3.060	21.9381	163.381	119.976
2	Nitrate	4.565	2.5977	15.300	6.024
3	Sulfate	5.200	1.3284	7.575	10.450

F Concentration on Column	invalid	ppm
Cl Concentration on Column	59.988	ppm
NO2 Concentration on Column	invalid	ppm
Br Concentration on Column	invalid	ppm
NO3 Concentration on Column	3.012	ppm
SO4 Concentration on Column	5.225	ppm

MagIC Net

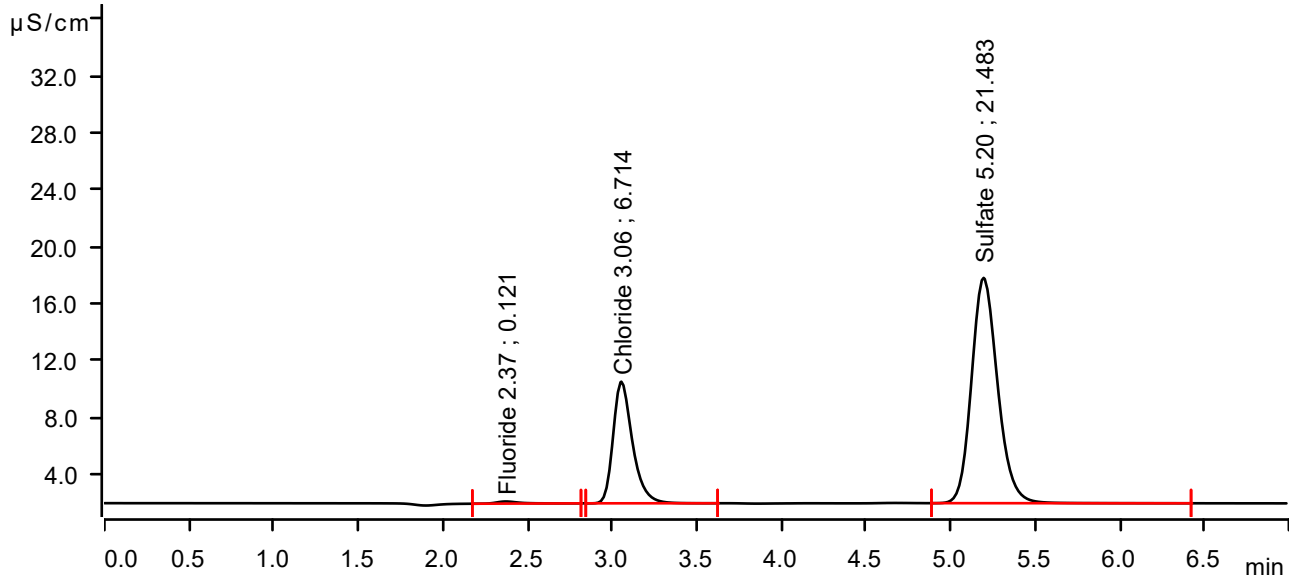
2023-07-18 10:19:53

Injection Time **2023-07-14 15:45:37 UTC-4**

Sample data

Ident	3312919003	
Sample type	Sample	
Position	41	
Injections	1	
Injection counter	1	
Volume	20	µL
Dilution	2	
Sample amount	1	
Comments (Info 2)	FILT	
Analyst (Info 3)	J1W	
Instrument (Info 4)	IC-12	

Anions



Peak number	Component name	Retention time	Area	Height	Concentration
		min	(µS/cm) x min	µS/cm	ppm
1	Fluoride	2.372	0.0233	0.149	0.121
2	Chloride	3.055	1.1366	8.549	6.714
3	Sulfate	5.195	2.8347	15.836	21.483

F Concentration on Column	0.061	ppm
Cl Concentration on Column	3.357	ppm
NO2 Concentration on Column	invalid	ppm
Br Concentration on Column	invalid	ppm
NO3 Concentration on Column	invalid	ppm
SO4 Concentration on Column	10.742	ppm

MagIC Net

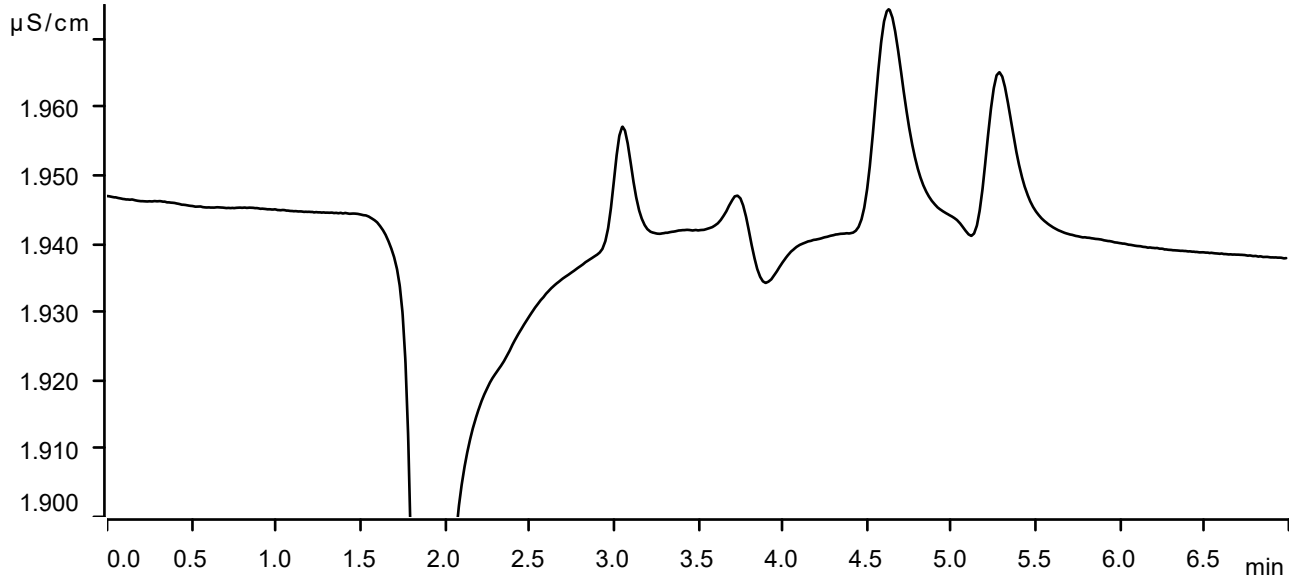
2023-07-18 10:19:54

Injection Time **2023-07-14 15:56:02 UTC-4**

Sample data

Ident	3312919004	
Sample type	Sample	
Position	42	
Injections	1	
Injection counter	1	
Volume	20	µL
Dilution	2	
Sample amount	1	
Comments (Info 2)	FILT	
Analyst (Info 3)	J1W	
Instrument (Info 4)	IC-12	

Anions



F Concentration on Column	invalid	ppm
Cl Concentration on Column	invalid	ppm
NO2 Concentration on Column	invalid	ppm
Br Concentration on Column	invalid	ppm
NO3 Concentration on Column	invalid	ppm
SO4 Concentration on Column	invalid	ppm

ALS

MagIC Net

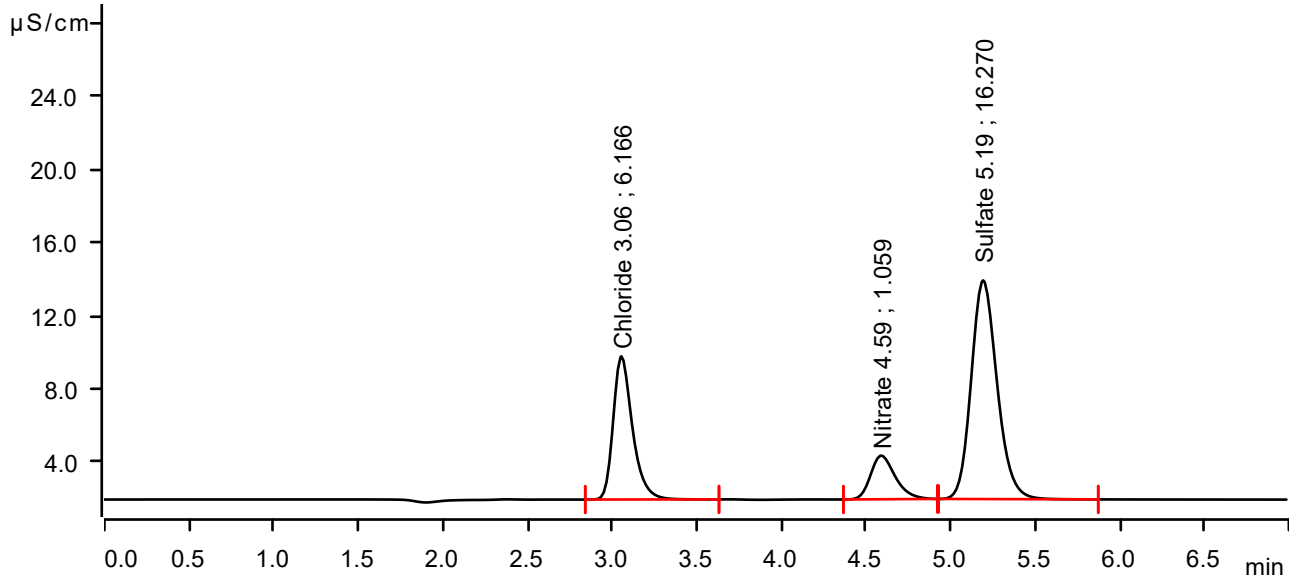
2023-07-18 10:19:55

Injection Time **2023-07-14 16:06:26 UTC-4**

Sample data

Ident	3312920001	
Sample type	Sample	
Position	43	
Injections	1	
Injection counter	1	
Volume	20	µL
Dilution	2	
Sample amount	1	
Comments (Info 2)	FILT	
Analyst (Info 3)	J1W	
Instrument (Info 4)	IC-12	

Anions



Peak number	Component name	Retention time	Area	Height	Concentration
		min	(µS/cm) x min	µS/cm	ppm
1	Chloride	3.055	1.0354	7.830	6.166
2	Nitrate	4.590	0.4047	2.385	1.059
3	Sulfate	5.192	2.1233	11.956	16.270

F Concentration on Column	invalid	ppm
Cl Concentration on Column	3.083	ppm
NO2 Concentration on Column	invalid	ppm
Br Concentration on Column	invalid	ppm
NO3 Concentration on Column	0.530	ppm
SO4 Concentration on Column	8.135	ppm

MagIC Net

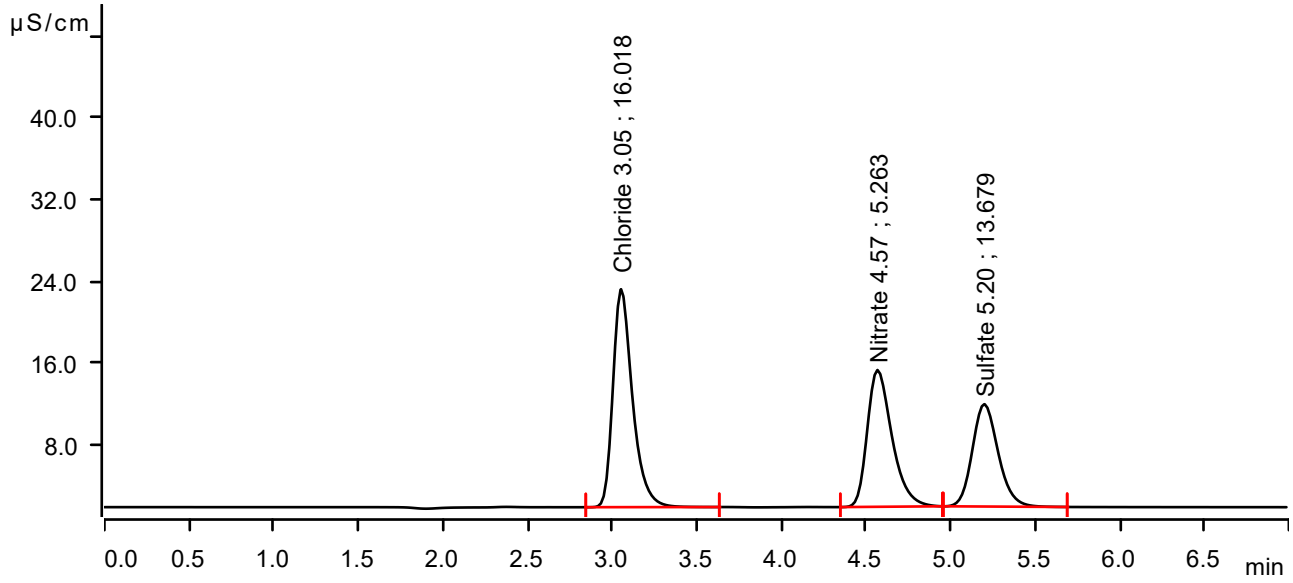
2023-07-18 10:19:56

Injection Time **2023-07-14 16:16:50 UTC-4**

Sample data

Ident	3312920002	
Sample type	Sample	
Position	44	
Injections	1	
Injection counter	1	
Volume	20	µL
Dilution	2	
Sample amount	1	
Comments (Info 2)	FILT	
Analyst (Info 3)	J1W	
Instrument (Info 4)	IC-12	

Anions



Peak number	Component name	Retention time	Area	Height	Concentration
		min	(µS/cm) x min	µS/cm	ppm
1	Chloride	3.053	2.8523	21.275	16.018
2	Nitrate	4.568	2.2586	13.350	5.263
3	Sulfate	5.198	1.7696	9.990	13.679

F Concentration on Column	invalid	ppm
Cl Concentration on Column	8.009	ppm
NO2 Concentration on Column	invalid	ppm
Br Concentration on Column	invalid	ppm
NO3 Concentration on Column	2.631	ppm
SO4 Concentration on Column	6.840	ppm

MagIC Net

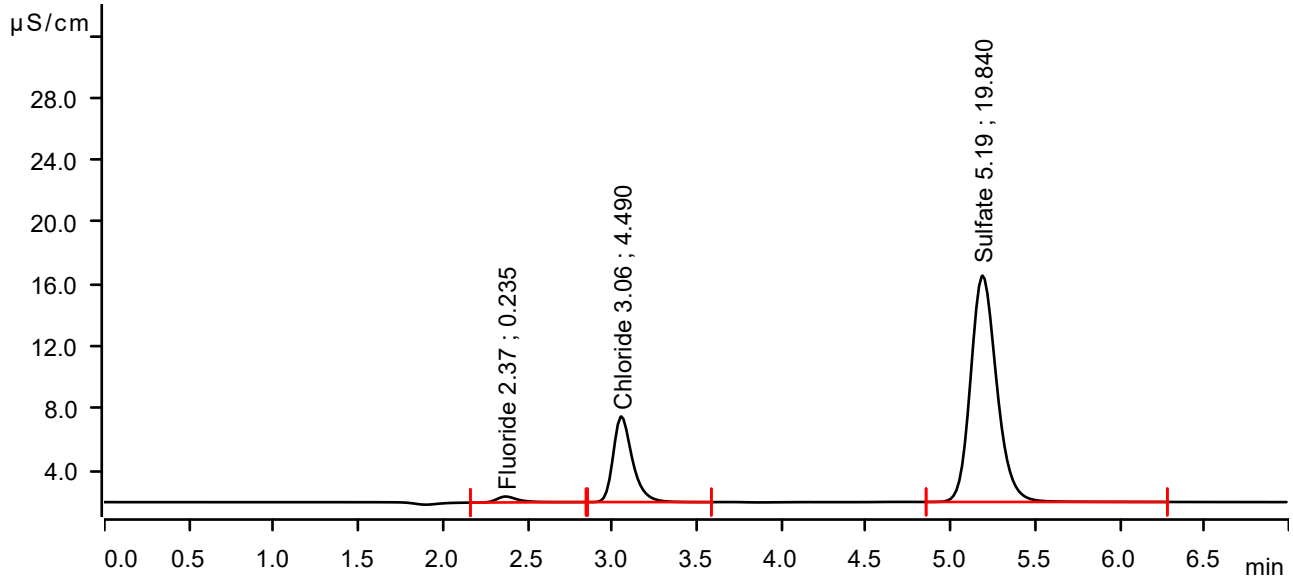
2023-07-18 10:19:57

Injection Time **2023-07-14 16:27:14 UTC-4**

Sample data

Ident	3312921001	
Sample type	Sample	
Position	45	
Injections	1	
Injection counter	1	
Volume	20	µL
Dilution	2	
Sample amount	1	
Comments (Info 2)	FILT	
Analyst (Info 3)	J1W	
Instrument (Info 4)	IC-12	

Anions



Peak number	Component name	Retention time	Area	Height	Concentration
		min	(µS/cm) x min	µS/cm	ppm
1	Fluoride	2.372	0.0573	0.381	0.235
2	Chloride	3.055	0.7262	5.516	4.490
3	Sulfate	5.188	2.6106	14.581	19.840

F Concentration on Column	0.117	ppm
Cl Concentration on Column	2.245	ppm
NO2 Concentration on Column	invalid	ppm
Br Concentration on Column	invalid	ppm
NO3 Concentration on Column	invalid	ppm
SO4 Concentration on Column	9.920	ppm

MagIC Net

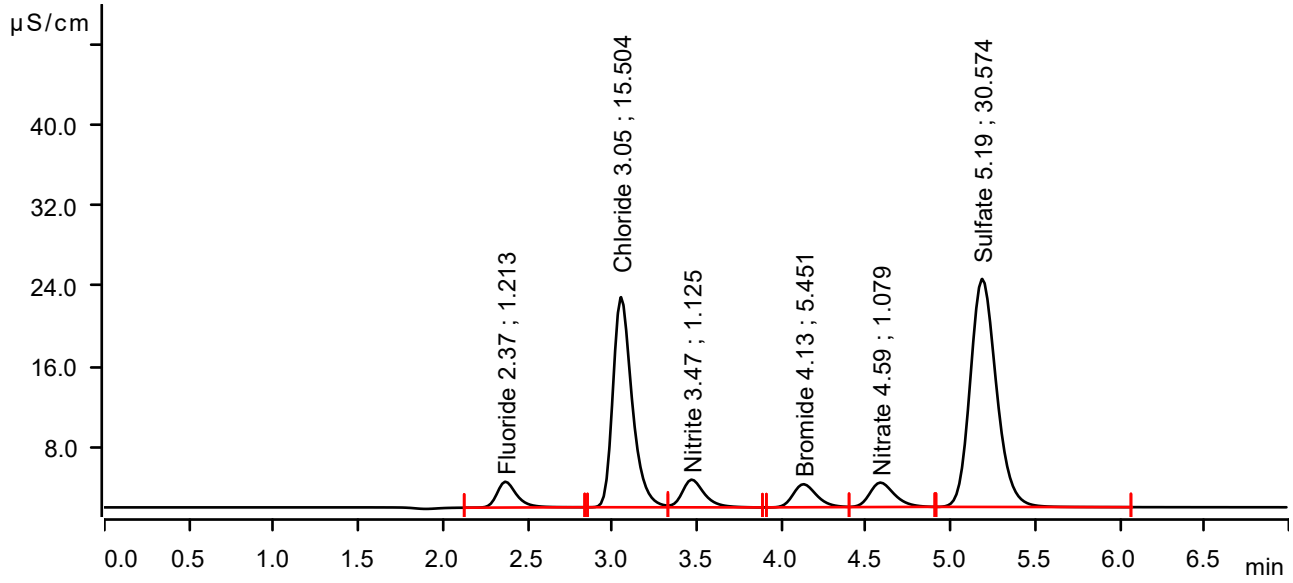
2023-07-18 10:19:58

Injection Time **2023-07-14 16:39:30 UTC-4**

Sample data

Ident	3695220	
Sample type	Spiking 1	
Position	46	
Injections	1	
Injection counter	1	
Volume	20	µL
Dilution	2	
Sample amount	1	
Comments (Info 2)	MS, FILT	
Analyst (Info 3)	J1W	
Instrument (Info 4)	IC-12	

Anions



Peak number	Component name	Retention time	Area	Height	Concentration
		min	(µS/cm) x min	µS/cm	ppm
1	Fluoride	2.370	0.3492	2.564	1.213
2	Chloride	3.053	2.7576	20.919	15.504
3	Nitrite	3.470	0.4202	2.752	1.125
4	Bromide	4.132	0.3715	2.293	5.451
5	Nitrate	4.585	0.4134	2.431	1.079
6	Sulfate	5.187	4.0735	22.700	30.574

F Concentration on Column	0.606	ppm
Cl Concentration on Column	7.752	ppm
NO2 Concentration on Column	0.563	ppm
Br Concentration on Column	2.726	ppm
NO3 Concentration on Column	0.540	ppm
SO4 Concentration on Column	15.287	ppm

MagIC Net

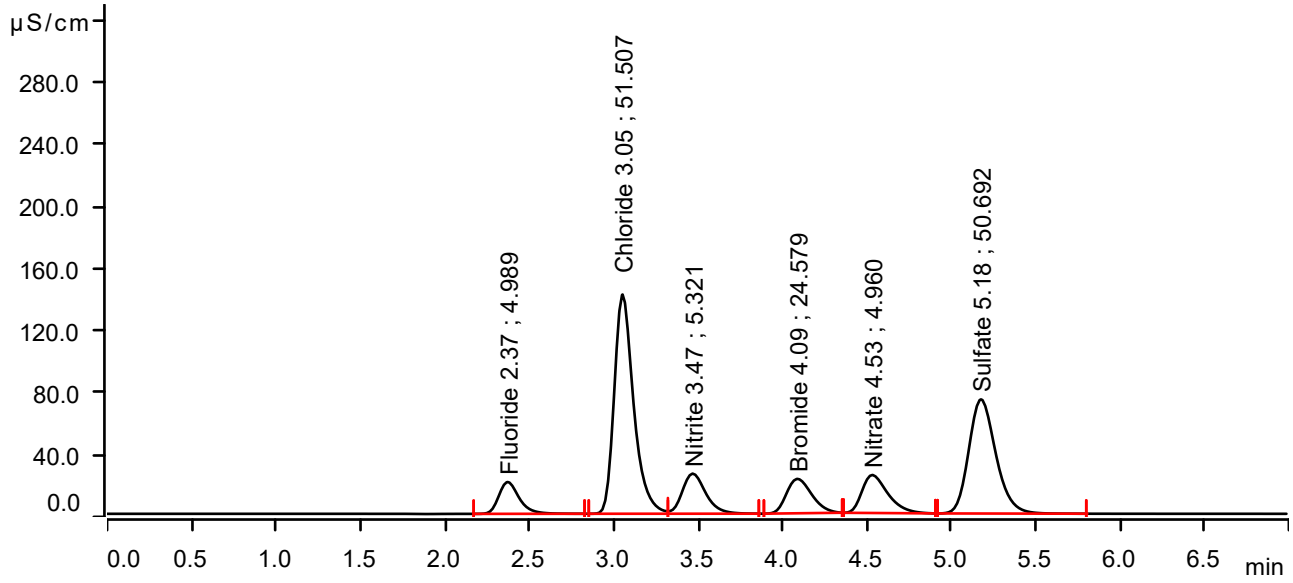
2023-07-18 10:19:59

Injection Time **2023-07-14 16:49:53 UTC-4**

Sample data

Ident	3695221	
Sample type	Check standard 3	
Position	132	
Injections	1	
Injection counter	1	
Volume	20	µL
Dilution	1	
Sample amount	1	
Comments (Info 2)	LCS/CCV	
Analyst (Info 3)	J1W	
Instrument (Info 4)	IC-12	

Anions



Peak number	Component name	Retention time	Area	Height	Concentration
		min	(µS/cm) x min	µS/cm	ppm
1	Fluoride	2.373	2.8721	20.483	4.989
2	Chloride	3.053	18.8346	141.253	51.507
3	Nitrite	3.468	4.1600	25.811	5.321
4	Bromide	4.088	3.8376	22.143	24.579
5	Nitrate	4.532	4.3465	24.464	4.960
6	Sulfate	5.175	13.6499	73.560	50.692

F Concentration on Column	4.989	ppm
Cl Concentration on Column	51.507	ppm
NO2 Concentration on Column	5.321	ppm
Br Concentration on Column	24.579	ppm
NO3 Concentration on Column	4.960	ppm
SO4 Concentration on Column	50.692	ppm

ALS

MagIC Net

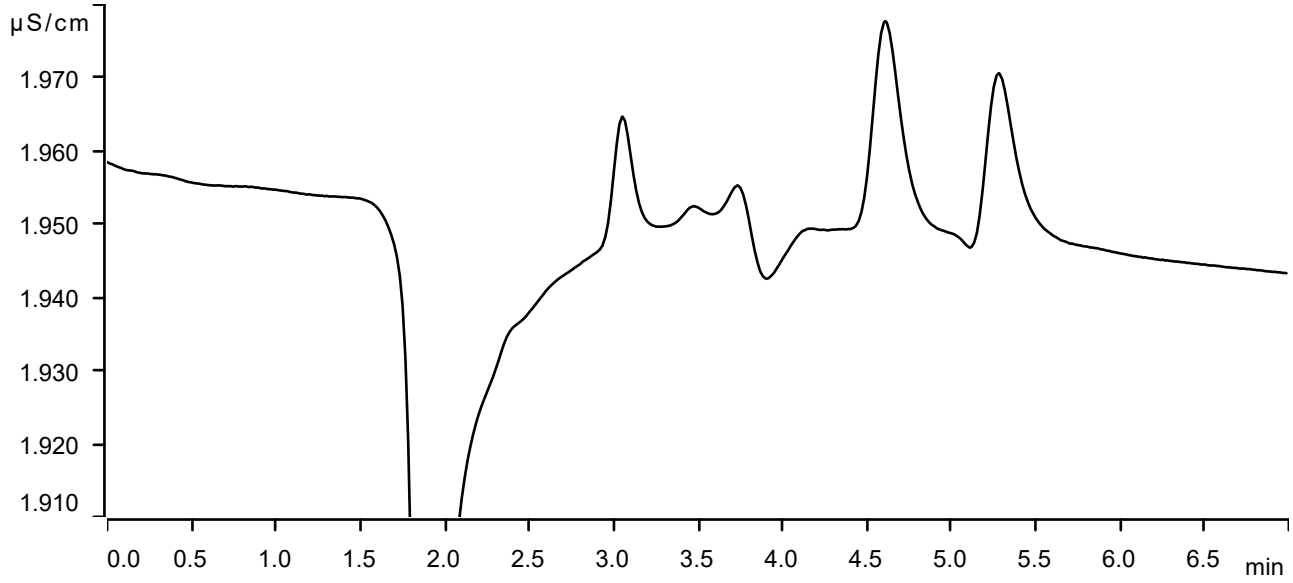
2023-07-18 10:20:00

Injection Time **2023-07-14 17:00:21 UTC-4**

Sample data

Ident	3695222	
Sample type	Sample	
Position	121	
Injections	1	
Injection counter	1	
Volume	20	µL
Dilution	1	
Sample amount	1	
Comments (Info 2)	MB	
Analyst (Info 3)	J1W	
Instrument (Info 4)	IC-12	

Anions



F Concentration on Column	invalid	ppm
Cl Concentration on Column	invalid	ppm
NO2 Concentration on Column	invalid	ppm
Br Concentration on Column	invalid	ppm
NO3 Concentration on Column	invalid	ppm
SO4 Concentration on Column	invalid	ppm

ALS

MagIC Net

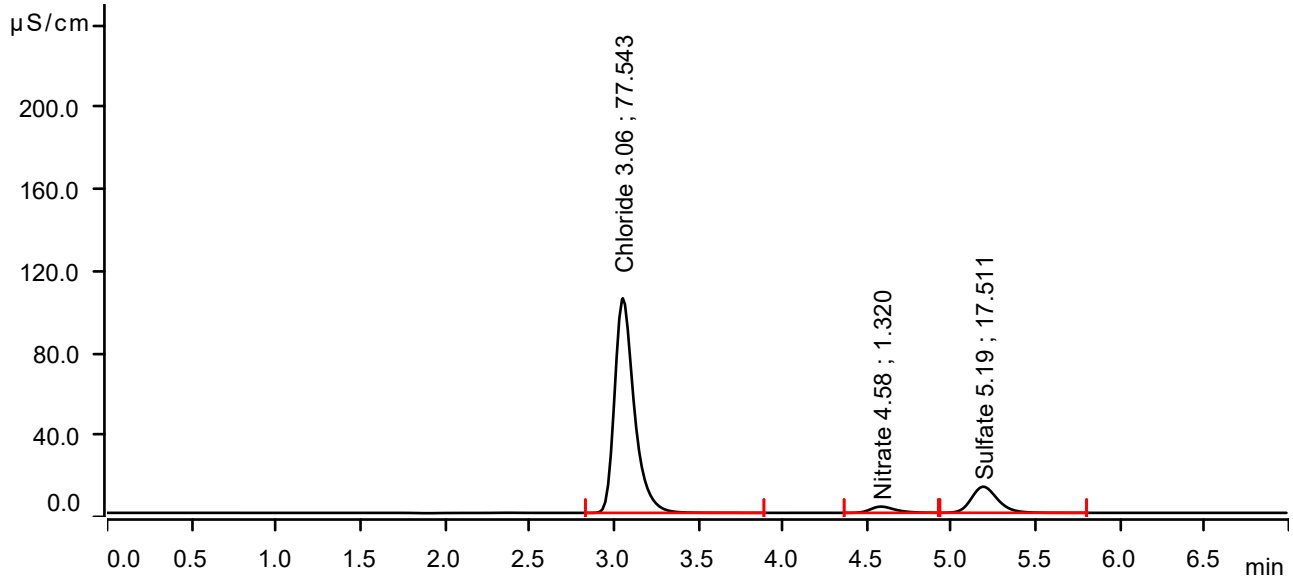
2023-07-18 10:20:01

Injection Time **2023-07-14 17:10:44 UTC-4**

Sample data

Ident	3312921002	
Sample type	Sample	
Position	47	
Injections	1	
Injection counter	1	
Volume	20	µL
Dilution	2	
Sample amount	1	
Comments (Info 2)	FILT	
Analyst (Info 3)	J1W	
Instrument (Info 4)	IC-12	

Anions



Peak number	Component name	Retention time	Area	Height	Concentration
		min	(µS/cm) x min	µS/cm	ppm
1	Chloride	3.055	14.1667	104.721	77.543
2	Nitrate	4.583	0.5186	3.034	1.320
3	Sulfate	5.188	2.2927	12.745	17.511

F Concentration on Column	invalid	ppm
Cl Concentration on Column	38.771	ppm
NO2 Concentration on Column	invalid	ppm
Br Concentration on Column	invalid	ppm
NO3 Concentration on Column	0.660	ppm
SO4 Concentration on Column	8.755	ppm

MagIC Net

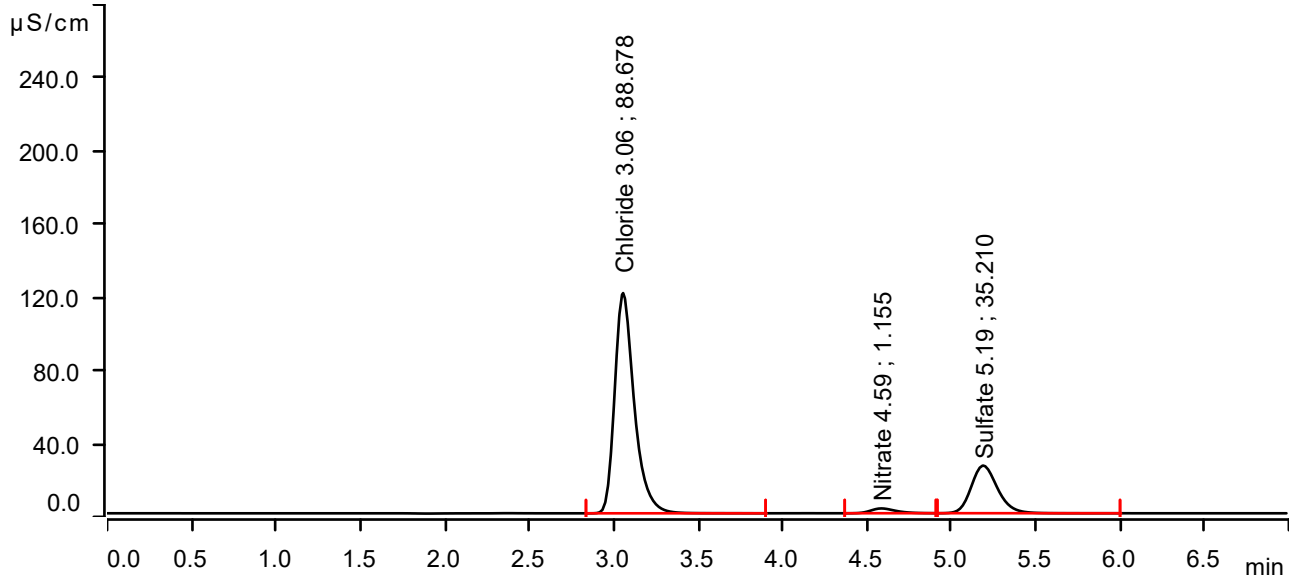
2023-07-18 10:20:02

Injection Time **2023-07-14 17:21:06 UTC-4**

Sample data

Ident	3312921003	
Sample type	Sample	
Position	48	
Injections	1	
Injection counter	1	
Volume	20	µL
Dilution	2	
Sample amount	1	
Comments (Info 2)	FILT	
Analyst (Info 3)	J1W	
Instrument (Info 4)	IC-12	

Anions



Peak number	Component name	Retention time min	Area (µS/cm) x min	Height µS/cm	Concentration ppm
1	Chloride	3.057	16.2086	120.384	88.678
2	Nitrate	4.585	0.4467	2.625	1.155
3	Sulfate	5.188	4.7045	26.021	35.210

F Concentration on Column	invalid	ppm
Cl Concentration on Column	44.339	ppm
NO2 Concentration on Column	invalid	ppm
Br Concentration on Column	invalid	ppm
NO3 Concentration on Column	0.578	ppm
SO4 Concentration on Column	17.605	ppm

MagIC Net

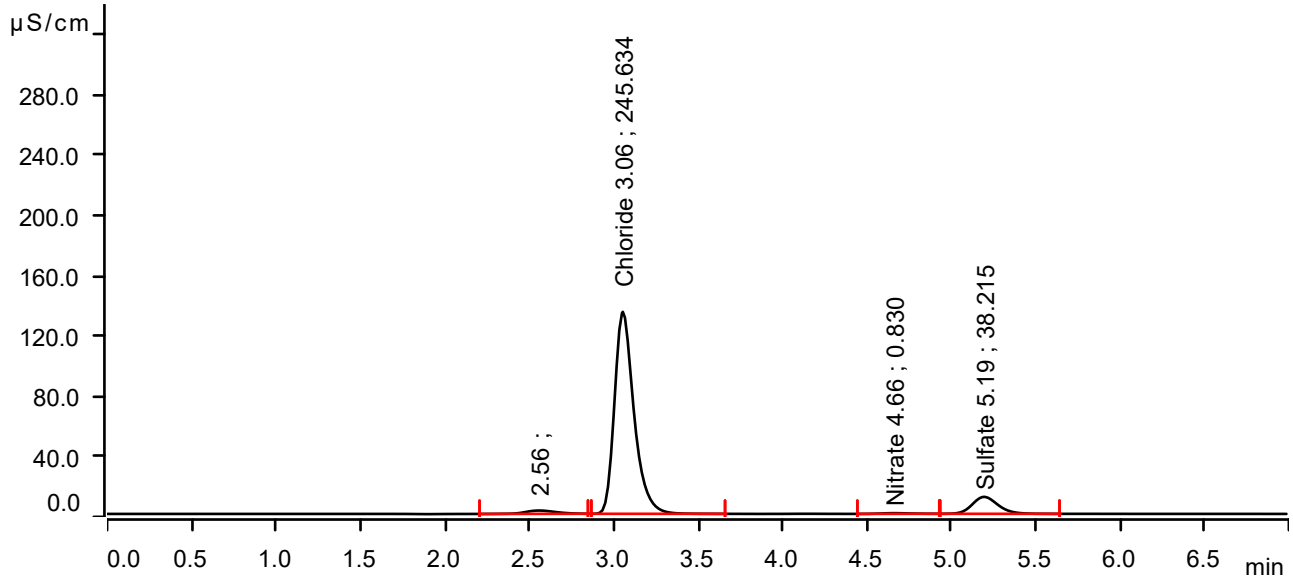
2023-07-18 10:20:03

Injection Time **2023-07-14 17:31:28 UTC-4**

Sample data

Ident	3312865003	
Sample type	Sample	
Position	49	
Injections	1	
Injection counter	1	
Volume	20	µL
Dilution	5	
Sample amount	1	
Comments (Info 2)	FILT	
Analyst (Info 3)	J1W	
Instrument (Info 4)	IC-12	

Anions



Peak number	Component name	Retention time	Area	Height	Concentration
		min	(µS/cm) x min	µS/cm	ppm
2	Chloride	3.055	17.9630	134.057	245.634
3	Nitrate	4.662	0.0869	0.442	0.830
4	Sulfate	5.193	1.9890	11.247	38.215

F Concentration on Column	invalid	ppm
Cl Concentration on Column	49.127	ppm
NO2 Concentration on Column	invalid	ppm
Br Concentration on Column	invalid	ppm
NO3 Concentration on Column	0.166	ppm
SO4 Concentration on Column	7.643	ppm

MagIC Net

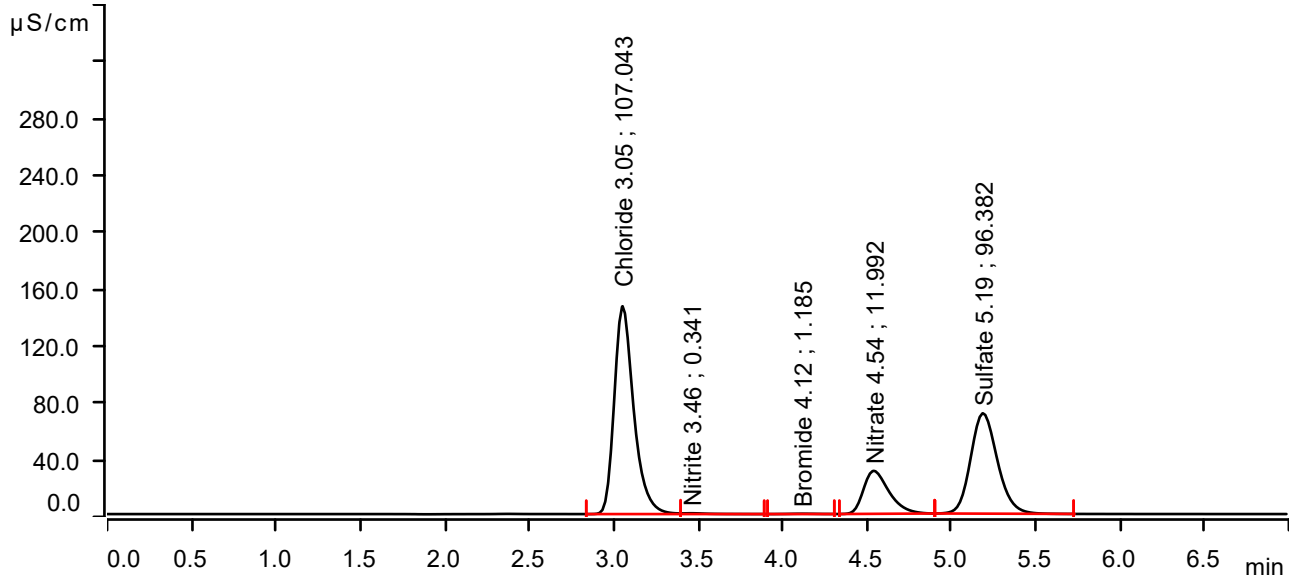
2023-07-18 10:20:04

Injection Time **2023-07-14 17:41:51 UTC-4**

Sample data

Ident	3312946002	
Sample type	Sample	
Position	50	
Injections	1	
Injection counter	1	
Volume	20	µL
Dilution	2	
Sample amount	1	
Comments (Info 2)	FILT	
Analyst (Info 3)	J1W	
Instrument (Info 4)	IC-12	

Anions



Peak number	Component name	Retention time	Area	Height	Concentration
		min	(µS/cm) x min	µS/cm	ppm
1	Chloride	3.053	19.5722	146.097	107.043
2	Nitrite	3.460	0.0960	0.569	0.341
3	Bromide	4.117	0.0387	0.227	1.185
4	Nitrate	4.540	5.2874	30.194	11.992
5	Sulfate	5.187	12.9776	70.529	96.382

F Concentration on Column	invalid	ppm
Cl Concentration on Column	53.521	ppm
NO2 Concentration on Column	0.170	ppm
Br Concentration on Column	0.593	ppm
NO3 Concentration on Column	5.996	ppm
SO4 Concentration on Column	48.191	ppm

MagIC Net

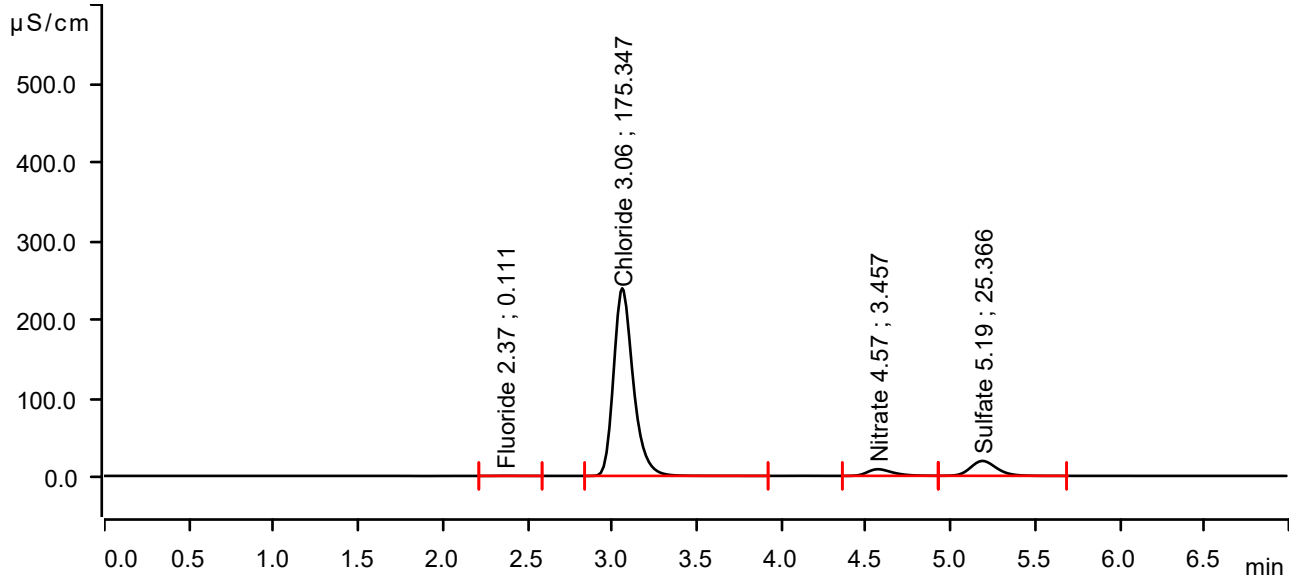
2023-07-18 10:20:05

Injection Time **2023-07-14 17:52:15 UTC-4**

Sample data

Ident	3312951001	
Sample type	Sample	
Position	51	
Injections	1	
Injection counter	1	
Volume	20	µL
Dilution	2	
Sample amount	1	
Comments (Info 2)	FILT	
Analyst (Info 3)	J1W	
Instrument (Info 4)	IC-12	

Anions



Peak number	Component name	Retention time min	Area (µS/cm) x min	Height µS/cm	Concentration ppm
1	Fluoride	2.370	0.0203	0.155	0.111
2	Chloride	3.060	32.0395	238.069	175.347
3	Nitrate	4.570	1.4585	8.408	3.457
4	Sulfate	5.188	3.3641	18.876	25.366

F Concentration on Column	0.056	ppm
Cl Concentration on Column	87.674	ppm
NO2 Concentration on Column	invalid	ppm
Br Concentration on Column	invalid	ppm
NO3 Concentration on Column	1.728	ppm
SO4 Concentration on Column	12.683	ppm

ALS

MagIC Net

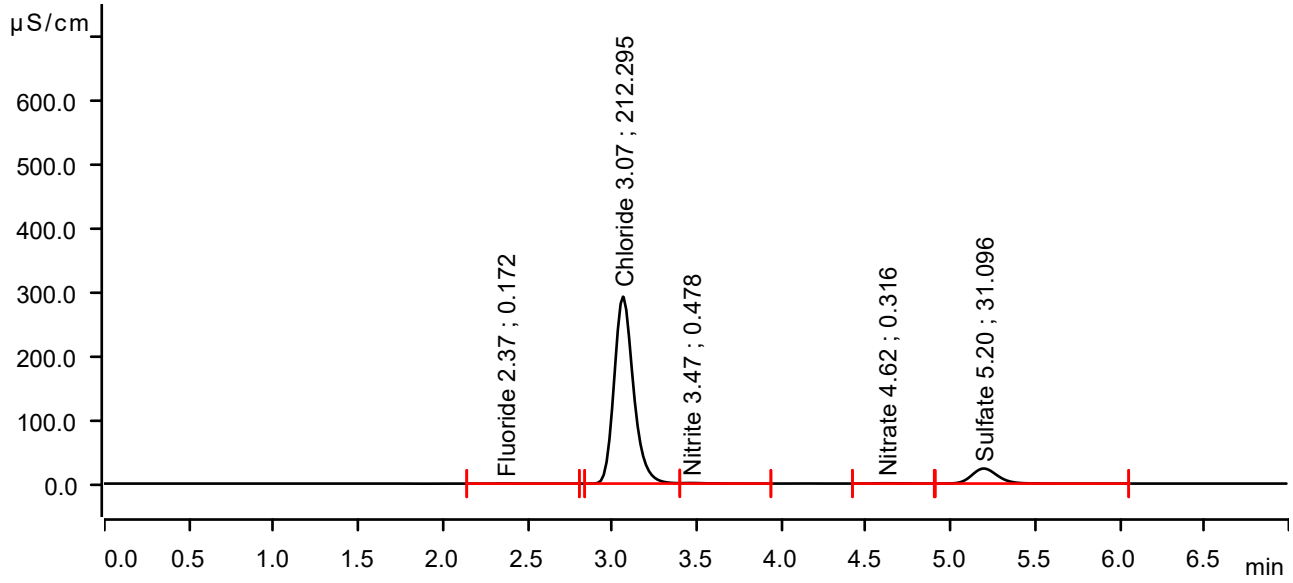
2023-07-18 10:20:07

Injection Time **2023-07-14 18:02:38 UTC-4**

Sample data

Ident	3313005001	
Sample type	Sample	
Position	52	
Injections	1	
Injection counter	1	
Volume	20	µL
Dilution	2	
Sample amount	1	
Comments (Info 2)	FILT	
Analyst (Info 3)	J1W	
Instrument (Info 4)	IC-12	

Anions



Peak number	Component name	Retention time	Area	Height	Concentration
		min	(µS/cm) x min	µS/cm	ppm
1	Fluoride	2.368	0.0384	0.242	0.172
2	Chloride	3.065	38.7551	291.964	212.295
3	Nitrite	3.465	0.1527	0.899	0.478
4	Nitrate	4.623	0.0799	0.428	0.316
5	Sulfate	5.195	4.1445	23.500	31.096

F Concentration on Column	0.086	ppm
Cl Concentration on Column	106.147	ppm
NO2 Concentration on Column	0.239	ppm
Br Concentration on Column	invalid	ppm
NO3 Concentration on Column	0.158	ppm
SO4 Concentration on Column	15.548	ppm

MagIC Net

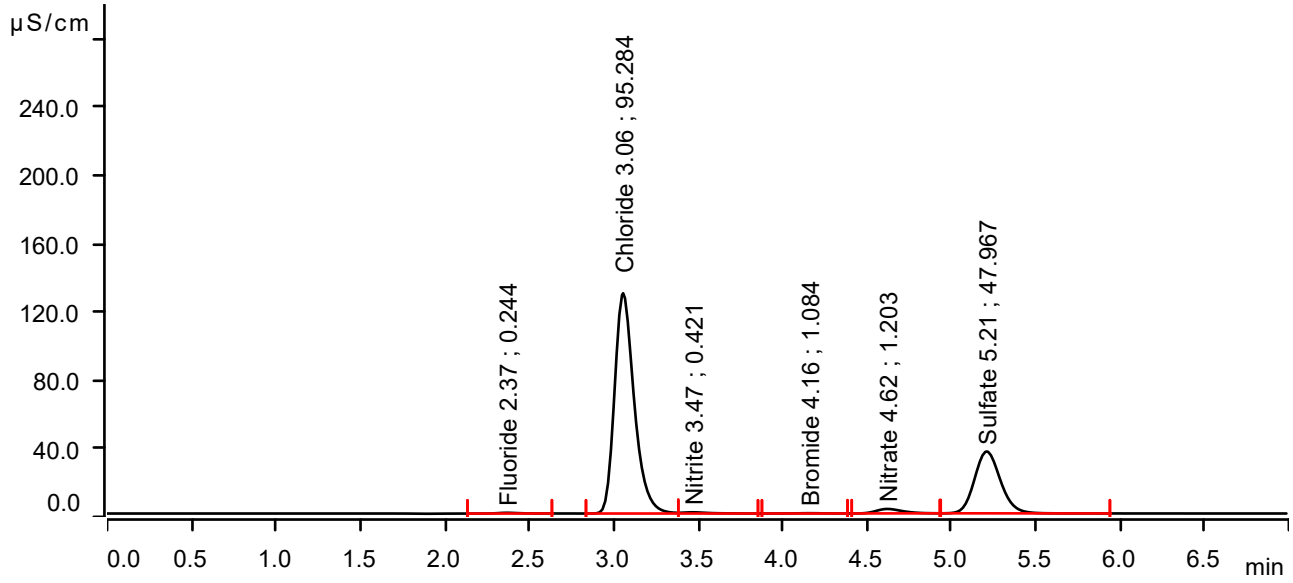
2023-07-18 10:20:08

Injection Time **2023-07-14 18:13:02 UTC-4**

Sample data

Ident	3312954002	
Sample type	Sample	
Position	53	
Injections	1	
Injection counter	1	
Volume	20	µL
Dilution	2	
Sample amount	1	
Comments (Info 2)	FILT	
Analyst (Info 3)	J1W	
Instrument (Info 4)	IC-12	

Anions



Peak number	Component name	Retention time	Area	Height	Concentration
		min	(µS/cm) x min	µS/cm	ppm
1	Fluoride	2.370	0.0602	0.430	0.244
2	Chloride	3.057	17.4191	129.011	95.284
3	Nitrite	3.468	0.1292	0.722	0.421
4	Bromide	4.160	0.0308	0.173	1.084
5	Nitrate	4.622	0.4677	2.601	1.203
6	Sulfate	5.208	6.4376	36.241	47.967

F Concentration on Column	0.122	ppm
Cl Concentration on Column	47.642	ppm
NO2 Concentration on Column	0.210	ppm
Br Concentration on Column	0.542	ppm
NO3 Concentration on Column	0.602	ppm
SO4 Concentration on Column	23.983	ppm

MagIC Net

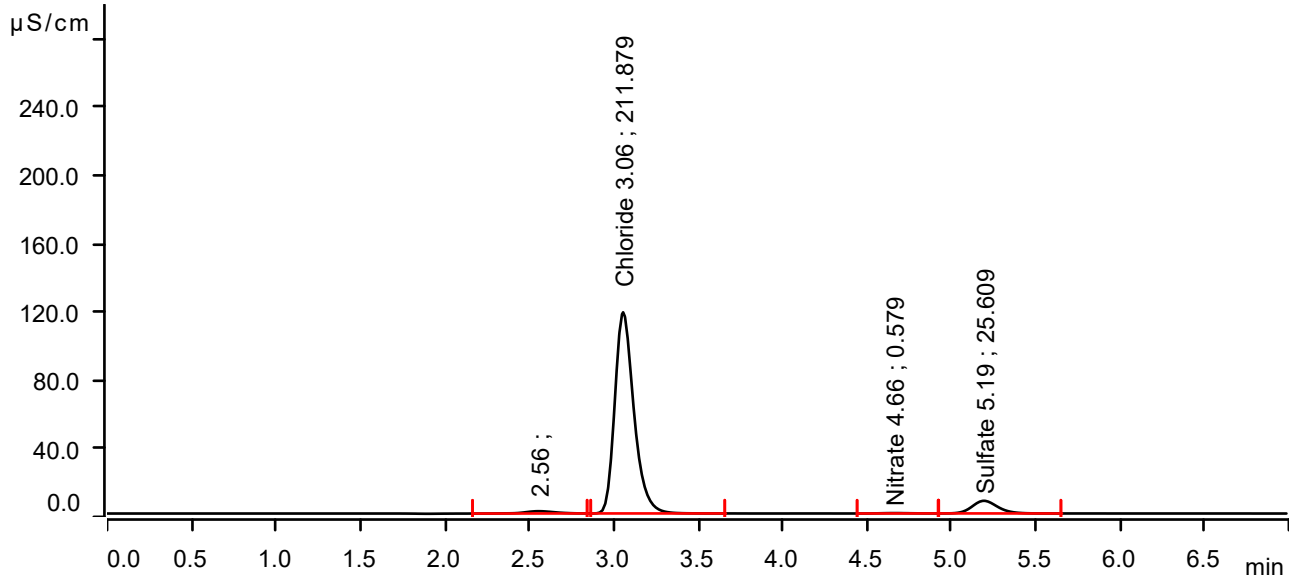
2023-07-18 10:20:09

Injection Time **2023-07-14 18:23:27 UTC-4**

Sample data

Ident	3313007001	
Sample type	Sample	
Position	54	
Injections	1	
Injection counter	1	
Volume	20	µL
Dilution	5	
Sample amount	1	
Comments (Info 2)	FILT	
Analyst (Info 3)	J1W	
Instrument (Info 4)	IC-12	

Anions



Peak number	Component name	Retention time	Area	Height	Concentration
		min	(µS/cm) x min	µS/cm	ppm
2	Chloride	3.057	15.4887	117.812	211.879
3	Nitrate	4.660	0.0430	0.218	0.579
4	Sulfate	5.193	1.3002	7.402	25.609

F Concentration on Column	invalid	ppm
Cl Concentration on Column	42.376	ppm
NO2 Concentration on Column	invalid	ppm
Br Concentration on Column	invalid	ppm
NO3 Concentration on Column	0.116	ppm
SO4 Concentration on Column	5.122	ppm

MagIC Net

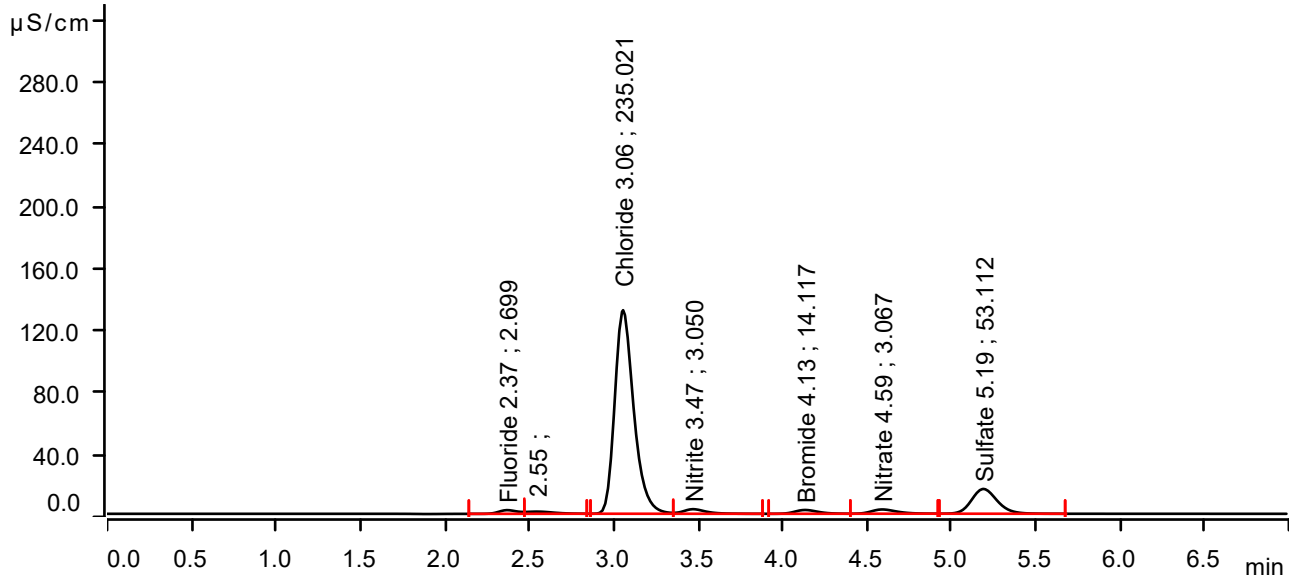
2023-07-18 10:20:10

Injection Time **2023-07-14 18:33:52 UTC-4**

Sample data

Ident	3695223	
Sample type	Spiking 1	
Position	55	
Injections	1	
Injection counter	1	
Volume	20	µL
Dilution	5	
Sample amount	1	
Comments (Info 2)	MS, FILT	
Analyst (Info 3)	J1W	
Instrument (Info 4)	IC-12	

Anions



Peak number	Component name	Retention time	Area	Height	Concentration
		min	(µS/cm) x min	µS/cm	ppm
1	Fluoride	2.370	0.3096	2.379	2.699
3	Chloride	3.057	17.1853	131.159	235.021
4	Nitrite	3.472	0.4592	2.956	3.050
5	Bromide	4.133	0.3867	2.449	14.117
6	Nitrate	4.590	0.4780	2.749	3.067
7	Sulfate	5.190	2.8022	15.949	53.112

F Concentration on Column	0.540	ppm
Cl Concentration on Column	47.004	ppm
NO2 Concentration on Column	0.610	ppm
Br Concentration on Column	2.823	ppm
NO3 Concentration on Column	0.613	ppm
SO4 Concentration on Column	10.622	ppm

MagIC Net

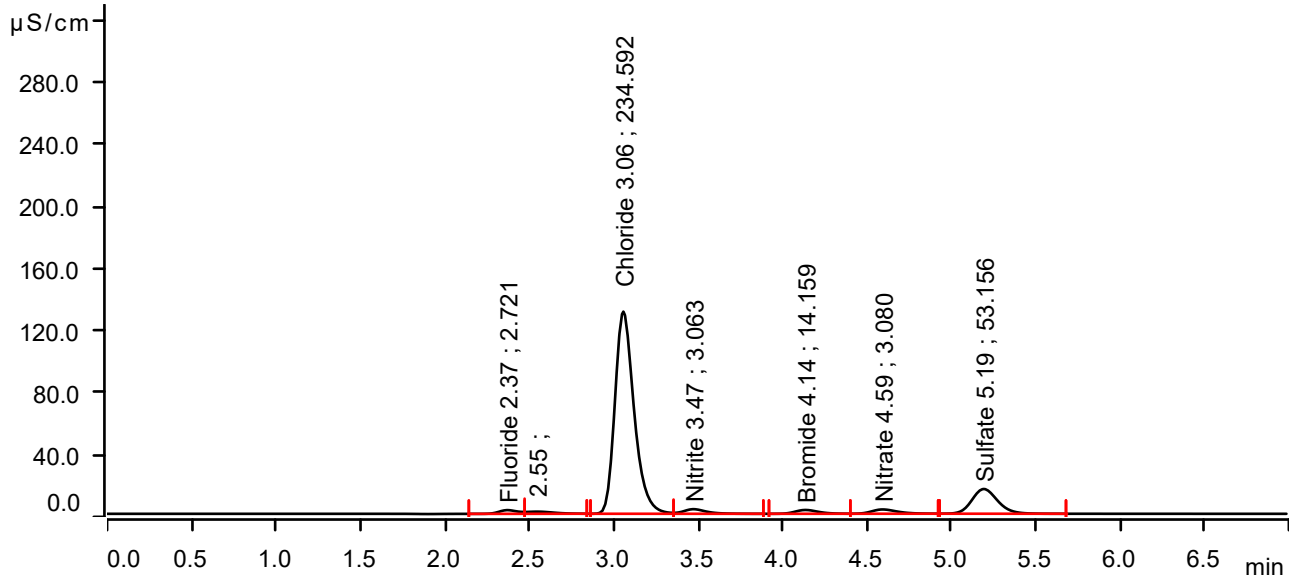
2023-07-18 10:20:11

Injection Time **2023-07-14 18:44:17 UTC-4**

Sample data

Ident	3695224	
Sample type	Spiking 1	
Position	56	
Injections	1	
Injection counter	1	
Volume	20	µL
Dilution	5	
Sample amount	1	
Comments (Info 2)	MSD, FILT	
Analyst (Info 3)	J1W	
Instrument (Info 4)	IC-12	

Anions



Peak number	Component name	Retention time	Area	Height	Concentration
		min	(µS/cm) x min	µS/cm	ppm
1	Fluoride	2.372	0.3122	2.387	2.721
3	Chloride	3.058	17.1539	130.235	234.592
4	Nitrite	3.473	0.4614	2.961	3.063
5	Bromide	4.137	0.3880	2.450	14.159
6	Nitrate	4.593	0.4802	2.754	3.080
7	Sulfate	5.192	2.8046	15.928	53.156

F Concentration on Column	0.544	ppm
Cl Concentration on Column	46.918	ppm
NO2 Concentration on Column	0.613	ppm
Br Concentration on Column	2.832	ppm
NO3 Concentration on Column	0.616	ppm
SO4 Concentration on Column	10.631	ppm

MagIC Net

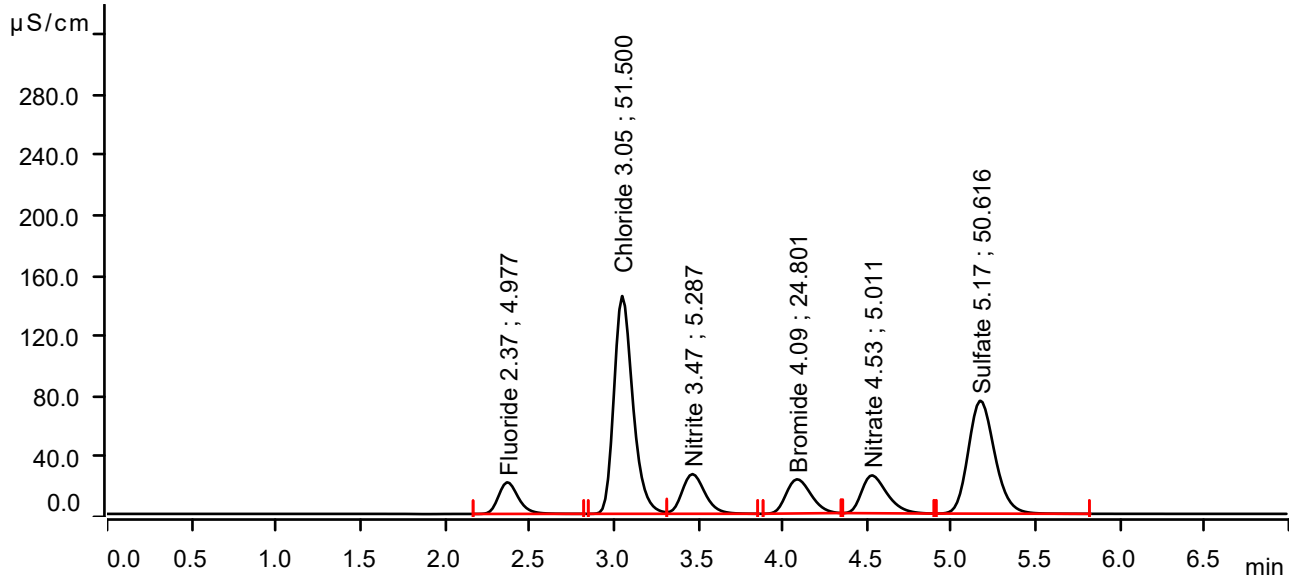
2023-07-18 10:20:12

Injection Time **2023-07-14 18:54:43 UTC-4**

Sample data

Ident	3695225	
Sample type	Check standard 3	
Position	132	
Injections	1	
Injection counter	1	
Volume	20	µL
Dilution	1	
Sample amount	1	
Comments (Info 2)	CCV	
Analyst (Info 3)	J1W	
Instrument (Info 4)	IC-12	

Anions



Peak number	Component name	Retention time	Area	Height	Concentration
		min	(µS/cm) x min	µS/cm	ppm
1	Fluoride	2.372	2.8652	20.924	4.977
2	Chloride	3.052	18.8321	144.568	51.500
3	Nitrite	3.467	4.1344	26.310	5.287
4	Bromide	4.087	3.8733	22.642	24.801
5	Nitrate	4.530	4.3927	25.089	5.011
6	Sulfate	5.172	13.6294	74.942	50.616

F Concentration on Column	4.977	ppm
Cl Concentration on Column	51.500	ppm
NO2 Concentration on Column	5.287	ppm
Br Concentration on Column	24.801	ppm
NO3 Concentration on Column	5.011	ppm
SO4 Concentration on Column	50.616	ppm

MagIC Net

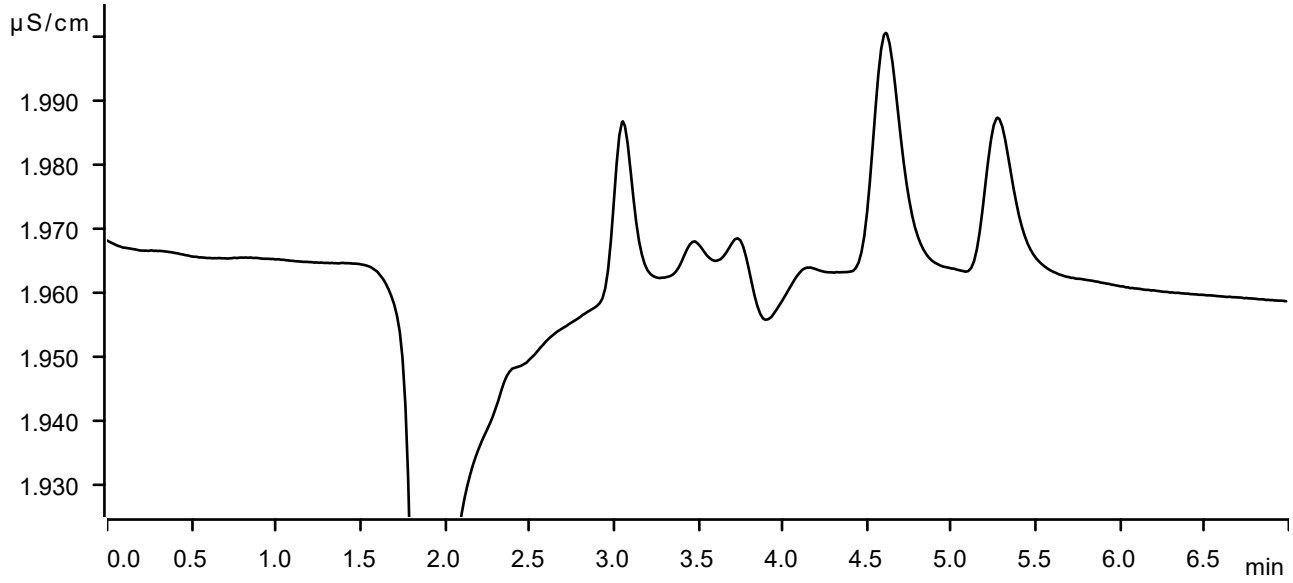
2023-07-18 10:20:14

Injection Time **2023-07-14 19:05:12 UTC-4**

Sample data

Ident	3695226	
Sample type	Sample	
Position	121	
Injections	1	
Injection counter	1	
Volume	20	µL
Dilution	1	
Sample amount	1	
Comments (Info 2)	MB	
Analyst (Info 3)	J1W	
Instrument (Info 4)	IC-12	

Anions



F Concentration on Column	invalid	ppm
Cl Concentration on Column	invalid	ppm
NO2 Concentration on Column	invalid	ppm
Br Concentration on Column	invalid	ppm
NO3 Concentration on Column	invalid	ppm
SO4 Concentration on Column	invalid	ppm

ALS

MagIC Net

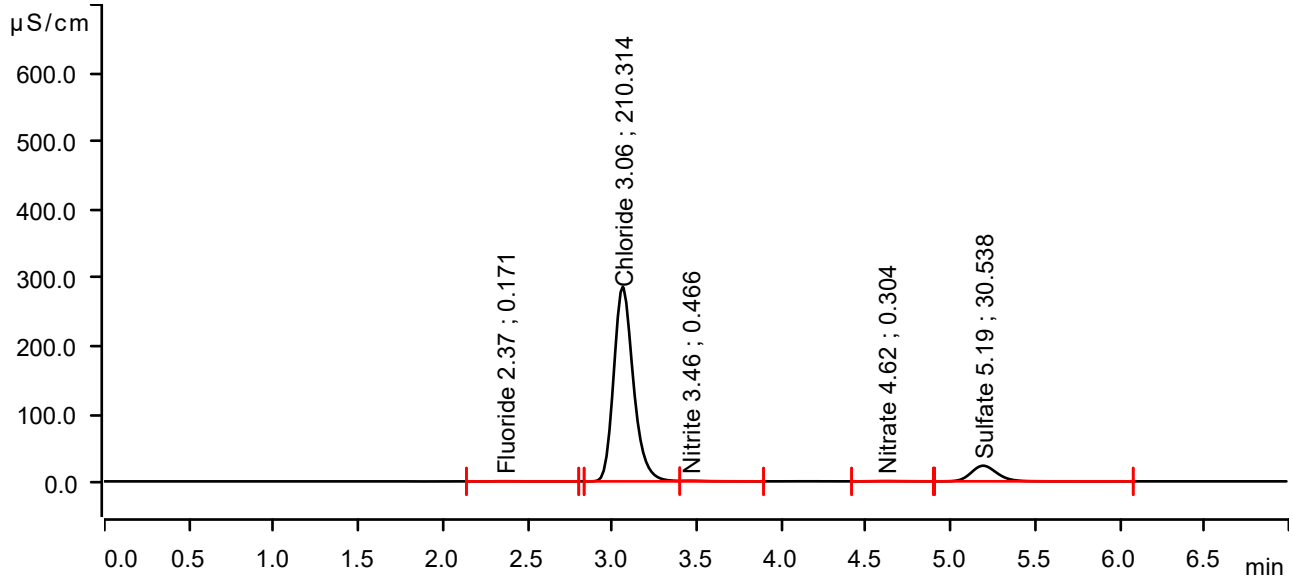
2023-07-18 10:20:14

Injection Time 2023-07-14 19:15:34 UTC-4

Sample data

Ident	3313008001	
Sample type	Sample	
Position	57	
Injections	1	
Injection counter	1	
Volume	20	µL
Dilution	2	
Sample amount	1	
Comments (Info 2)	FILT	
Analyst (Info 3)	J1W	
Instrument (Info 4)	IC-12	

Anions



Peak number	Component name	Retention time min	Area (µS/cm) x min	Height µS/cm	Concentration ppm
1	Fluoride	2.367	0.0383	0.238	0.171
2	Chloride	3.063	38.3955	284.822	210.314
3	Nitrite	3.462	0.1478	0.880	0.466
4	Nitrate	4.620	0.0748	0.404	0.304
5	Sulfate	5.192	4.0685	22.885	30.538

F Concentration on Column	0.086	ppm
Cl Concentration on Column	105.157	ppm
NO2 Concentration on Column	0.233	ppm
Br Concentration on Column	invalid	ppm
NO3 Concentration on Column	0.152	ppm
SO4 Concentration on Column	15.269	ppm

ALS

MagIC Net

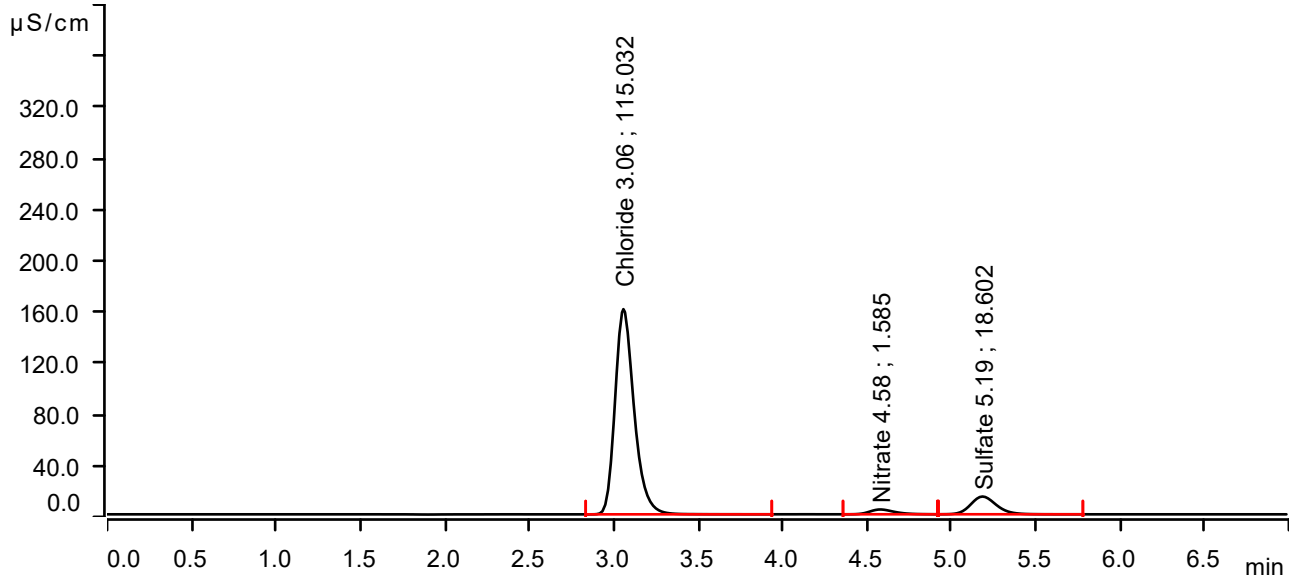
2023-07-18 10:20:15

Injection Time **2023-07-14 19:26:00 UTC-4**

Sample data

Ident	3313009001	
Sample type	Sample	
Position	58	
Injections	1	
Injection counter	1	
Volume	20	µL
Dilution	2	
Sample amount	1	
Comments (Info 2)	FILT	
Analyst (Info 3)	J1W	
Instrument (Info 4)	IC-12	

Anions



Peak number	Component name	Retention time	Area	Height	Concentration
		min	(µS/cm) x min	µS/cm	ppm
1	Chloride	3.058	21.0338	160.230	115.032
2	Nitrate	4.578	0.6350	3.754	1.585
3	Sulfate	5.185	2.4416	13.848	18.602

F Concentration on Column	invalid	ppm
Cl Concentration on Column	57.516	ppm
NO2 Concentration on Column	invalid	ppm
Br Concentration on Column	invalid	ppm
NO3 Concentration on Column	0.793	ppm
SO4 Concentration on Column	9.301	ppm

ALS

MagIC Net

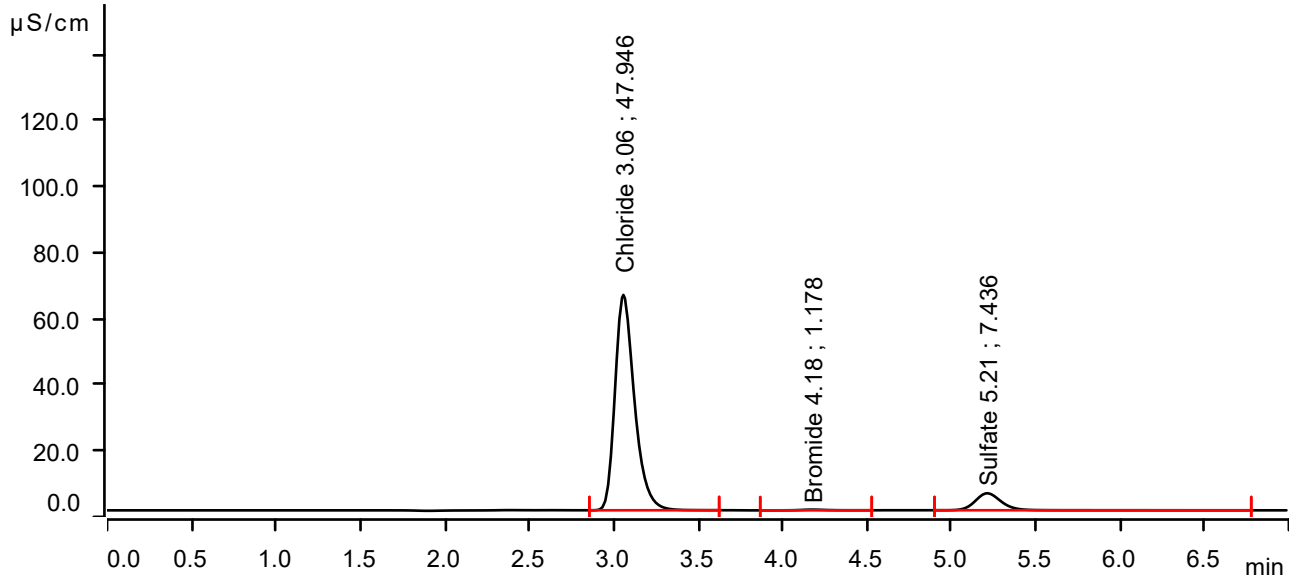
2023-07-18 10:20:17

Injection Time **2023-07-14 19:36:26 UTC-4**

Sample data

Ident	3313009002	
Sample type	Sample	
Position	59	
Injections	1	
Injection counter	1	
Volume	20	µL
Dilution	2	
Sample amount	1	
Comments (Info 2)	FILT	
Analyst (Info 3)	J1W	
Instrument (Info 4)	IC-12	

Anions



Peak number	Component name	Retention time	Area	Height	Concentration
		min	(µS/cm) x min	µS/cm	ppm
1	Chloride	3.058	8.7307	65.164	47.946
2	Bromide	4.177	0.0381	0.213	1.178
3	Sulfate	5.212	0.9164	5.138	7.436

F Concentration on Column	invalid	ppm
Cl Concentration on Column	23.973	ppm
NO2 Concentration on Column	invalid	ppm
Br Concentration on Column	0.589	ppm
NO3 Concentration on Column	invalid	ppm
SO4 Concentration on Column	3.718	ppm

ALS

MagIC Net

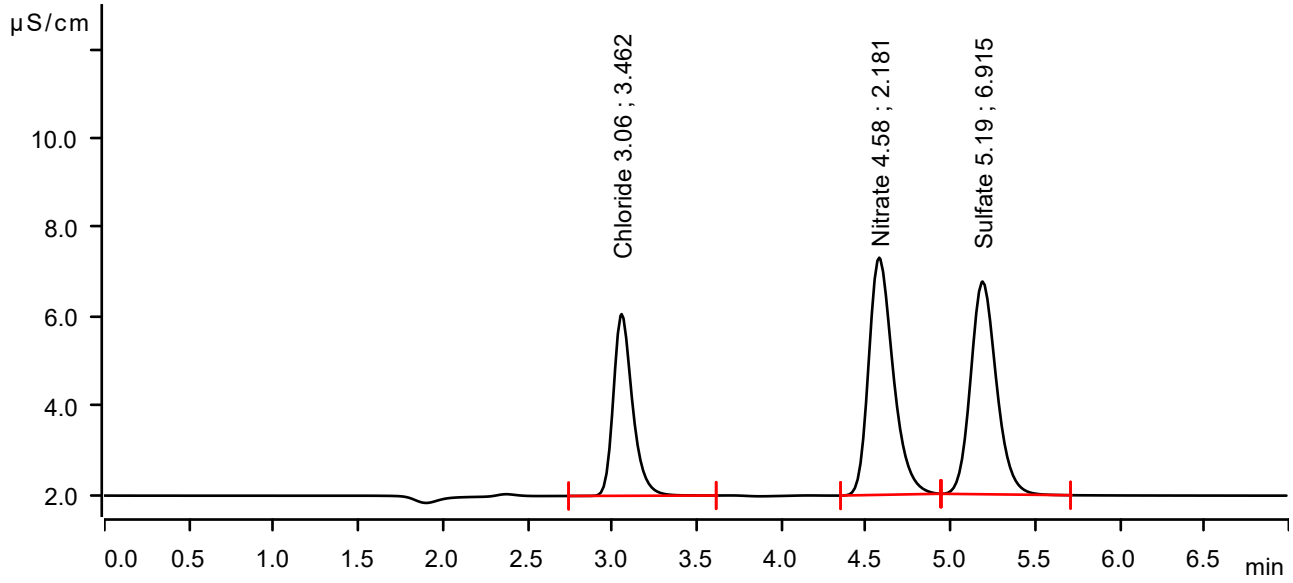
2023-07-18 10:20:18

Injection Time **2023-07-14 19:46:53 UTC-4**

Sample data

Ident	3313009003	
Sample type	Sample	
Position	60	
Injections	1	
Injection counter	1	
Volume	20	µL
Dilution	2	
Sample amount	1	
Comments (Info 2)	FILT	
Analyst (Info 3)	J1W	
Instrument (Info 4)	IC-12	

Anions



Peak number	Component name	Retention time	Area	Height	Concentration
		min	(µS/cm) x min	µS/cm	ppm
1	Chloride	3.057	0.5365	4.079	3.462
2	Nitrate	4.578	0.8967	5.325	2.181
3	Sulfate	5.188	0.8451	4.776	6.915

F Concentration on Column	invalid	ppm
Cl Concentration on Column	1.731	ppm
NO2 Concentration on Column	invalid	ppm
Br Concentration on Column	invalid	ppm
NO3 Concentration on Column	1.091	ppm
SO4 Concentration on Column	3.457	ppm

ALS

MagIC Net

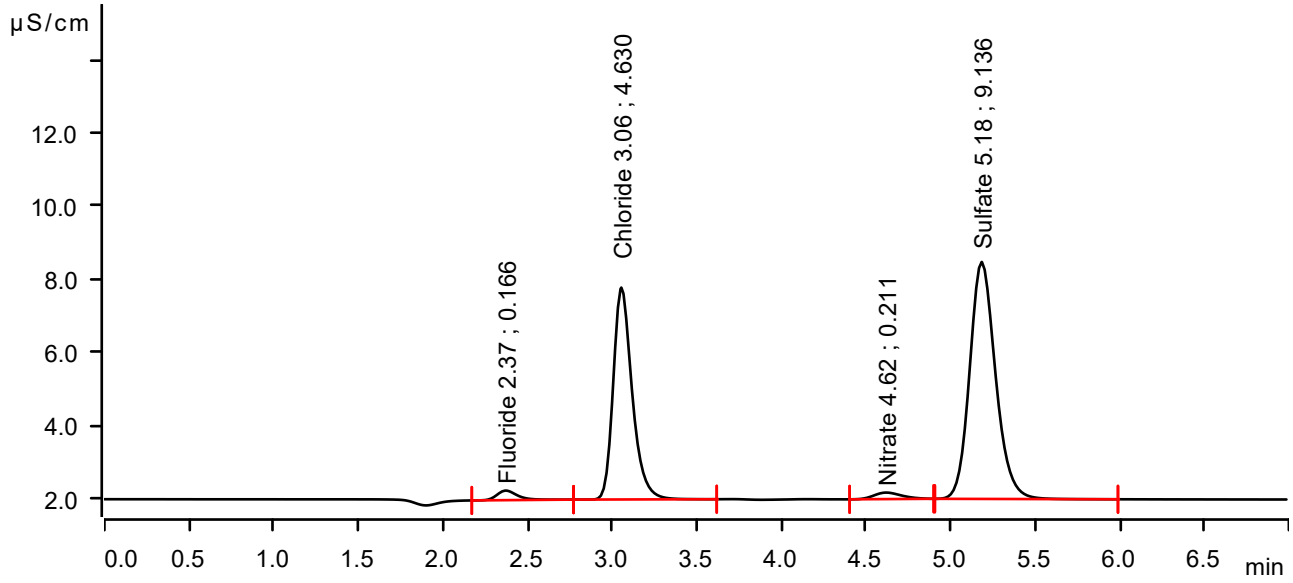
2023-07-18 10:20:19

Injection Time **2023-07-14 19:57:19 UTC-4**

Sample data

Ident	3313009004	
Sample type	Sample	
Position	61	
Injections	1	
Injection counter	1	
Volume	20	µL
Dilution	2	
Sample amount	1	
Comments (Info 2)	FILT	
Analyst (Info 3)	J1W	
Instrument (Info 4)	IC-12	

Anions



Peak number	Component name	Retention time	Area	Height	Concentration
		min	(µS/cm) x min	µS/cm	ppm
1	Fluoride	2.373	0.0367	0.261	0.166
2	Chloride	3.055	0.7519	5.791	4.630
3	Nitrate	4.620	0.0339	0.178	0.211
4	Sulfate	5.183	1.1488	6.477	9.136

F Concentration on Column	0.083	ppm
Cl Concentration on Column	2.315	ppm
NO2 Concentration on Column	invalid	ppm
Br Concentration on Column	invalid	ppm
NO3 Concentration on Column	0.105	ppm
SO4 Concentration on Column	4.568	ppm

MagIC Net

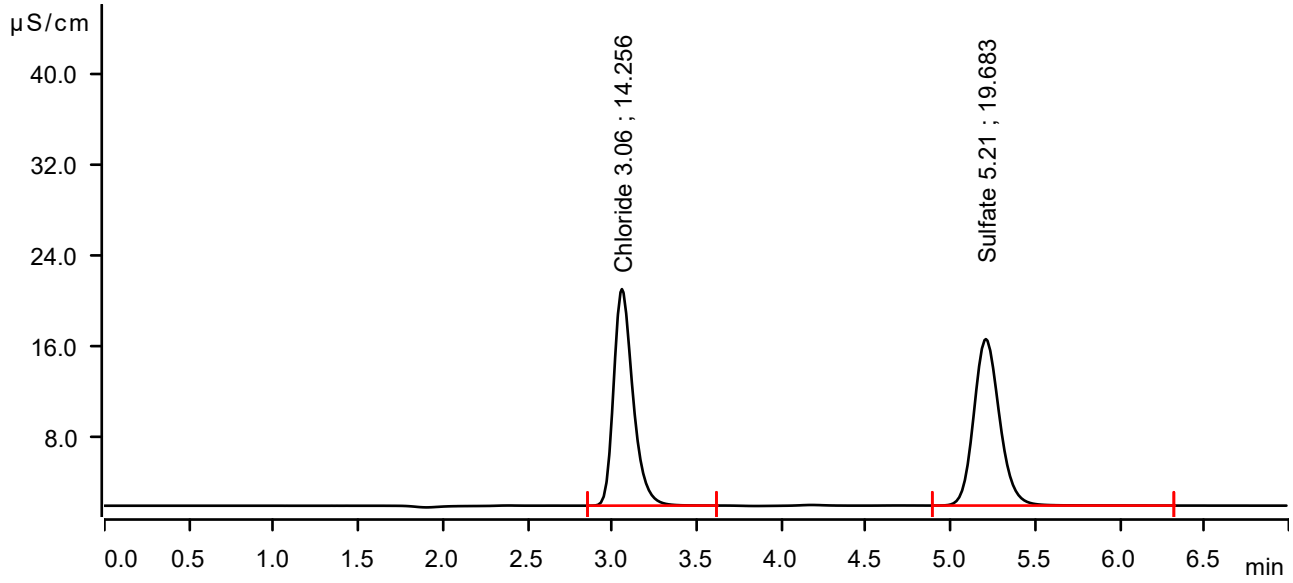
2023-07-18 10:20:20

Injection Time **2023-07-14 20:07:46 UTC-4**

Sample data

Ident	3313009005	
Sample type	Sample	
Position	62	
Injections	1	
Injection counter	1	
Volume	20	µL
Dilution	2	
Sample amount	1	
Comments (Info 2)	FILT	
Analyst (Info 3)	J1W	
Instrument (Info 4)	IC-12	

Anions



Peak number	Component name	Retention time	Area	Height	Concentration
		min	(µS/cm) x min	µS/cm	ppm
1	Chloride	3.058	2.5275	19.024	14.256
2	Sulfate	5.208	2.5892	14.622	19.683

F Concentration on Column	invalid	ppm
Cl Concentration on Column	7.128	ppm
NO2 Concentration on Column	invalid	ppm
Br Concentration on Column	invalid	ppm
NO3 Concentration on Column	invalid	ppm
SO4 Concentration on Column	9.842	ppm

MagIC Net

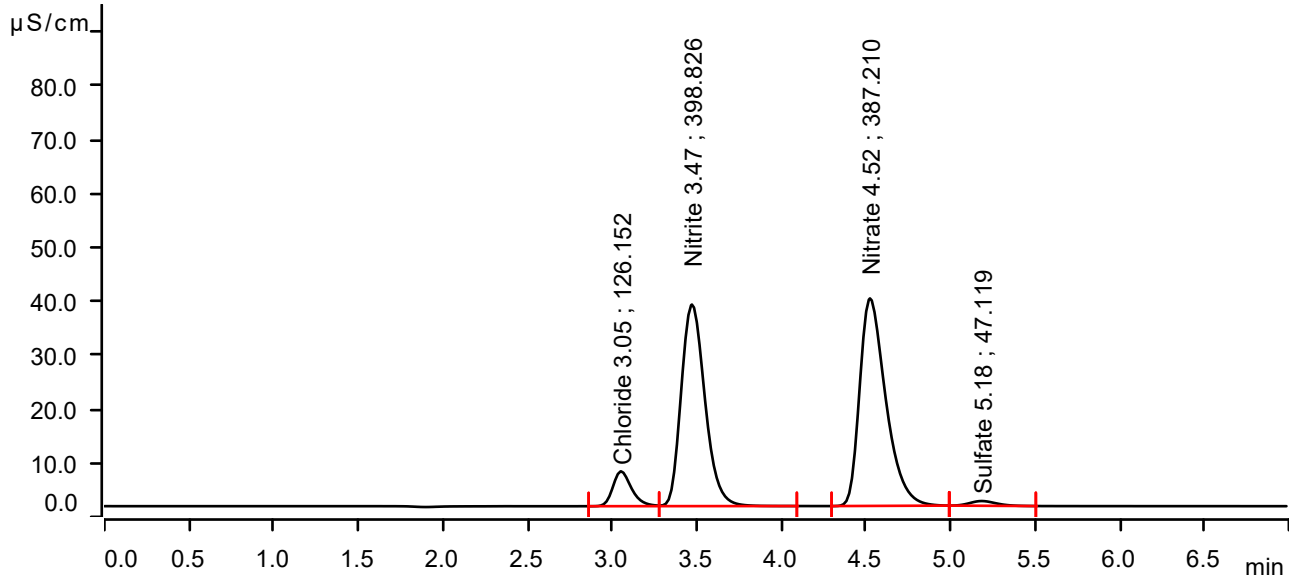
2023-07-18 10:20:21

Injection Time **2023-07-14 20:18:14 UTC-4**

Sample data

Ident	3311700002	
Sample type	Sample	
Position	63	
Injections	1	
Injection counter	1	
Volume	20	µL
Dilution	50	
Sample amount	1	
Comments (Info 2)	FILT	
Analyst (Info 3)	J1W	
Instrument (Info 4)	IC-12	

Anions



Peak number	Component name	Retention time	Area	Height	Concentration
		min	(µS/cm) x min	µS/cm	ppm
1	Chloride	3.053	0.8288	6.459	126.152
2	Nitrite	3.472	6.0914	37.391	398.826
3	Nitrate	4.523	6.8909	38.491	387.210
4	Sulfate	5.183	0.1569	0.880	47.119

F Concentration on Column	invalid	ppm
Cl Concentration on Column	2.523	ppm
NO2 Concentration on Column	7.977	ppm
Br Concentration on Column	invalid	ppm
NO3 Concentration on Column	7.744	ppm
SO4 Concentration on Column	0.942	ppm

MagIC Net

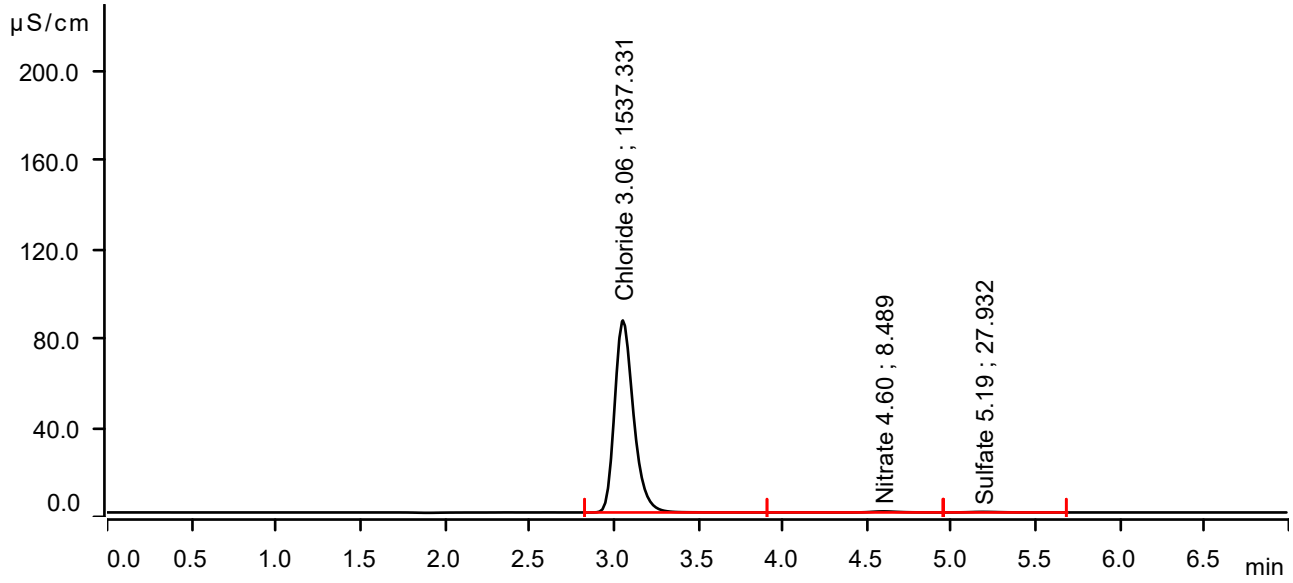
2023-07-18 10:20:22

Injection Time **2023-07-14 20:28:42 UTC-4**

Sample data

Ident	3311804003	
Sample type	Sample	
Position	64	
Injections	1	
Injection counter	1	
Volume	20	µL
Dilution	50	
Sample amount	1	
Comments (Info 2)	FILT	
Analyst (Info 3)	J1W	
Instrument (Info 4)	IC-12	

Anions



Peak number	Component name	Retention time	Area	Height	Concentration
		min	(µS/cm) x min	µS/cm	ppm
1	Chloride	3.055	11.2205	86.231	1537.331
2	Nitrate	4.597	0.0901	0.469	8.489
3	Sulfate	5.188	0.0518	0.261	27.932

F Concentration on Column	invalid	ppm
Cl Concentration on Column	30.747	ppm
NO2 Concentration on Column	invalid	ppm
Br Concentration on Column	invalid	ppm
NO3 Concentration on Column	0.170	ppm
SO4 Concentration on Column	0.559	ppm

ALS

MagIC Net

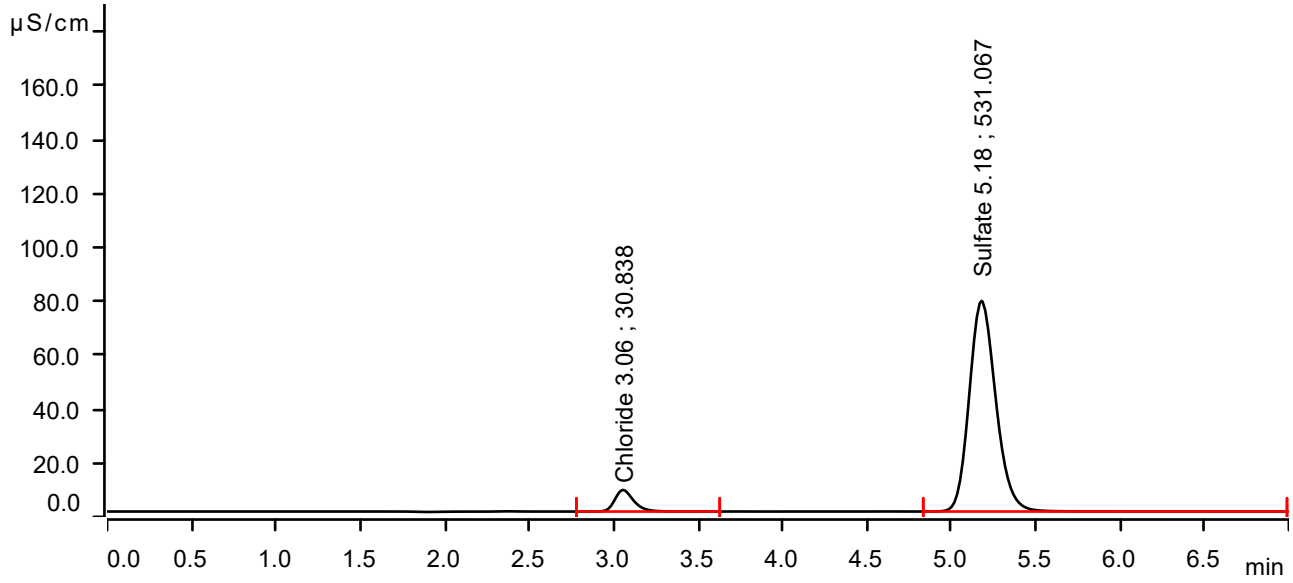
2023-07-18 10:20:23

Injection Time **2023-07-14 20:39:10 UTC-4**

Sample data

Ident	3312149001	
Sample type	Sample	
Position	65	
Injections	1	
Injection counter	1	
Volume	20	µL
Dilution	10	
Sample amount	1	
Comments (Info 2)	FILT	
Analyst (Info 3)	J1W	
Instrument (Info 4)	IC-12	

Anions



Peak number	Component name	Retention time	Area	Height	Concentration
		min	(µS/cm) x min	µS/cm	ppm
1	Chloride	3.055	1.0357	8.009	30.838
2	Sulfate	5.178	14.2983	78.127	531.067

F Concentration on Column	invalid	ppm
Cl Concentration on Column	3.084	ppm
NO2 Concentration on Column	invalid	ppm
Br Concentration on Column	invalid	ppm
NO3 Concentration on Column	invalid	ppm
SO4 Concentration on Column	53.107	ppm

MagIC Net

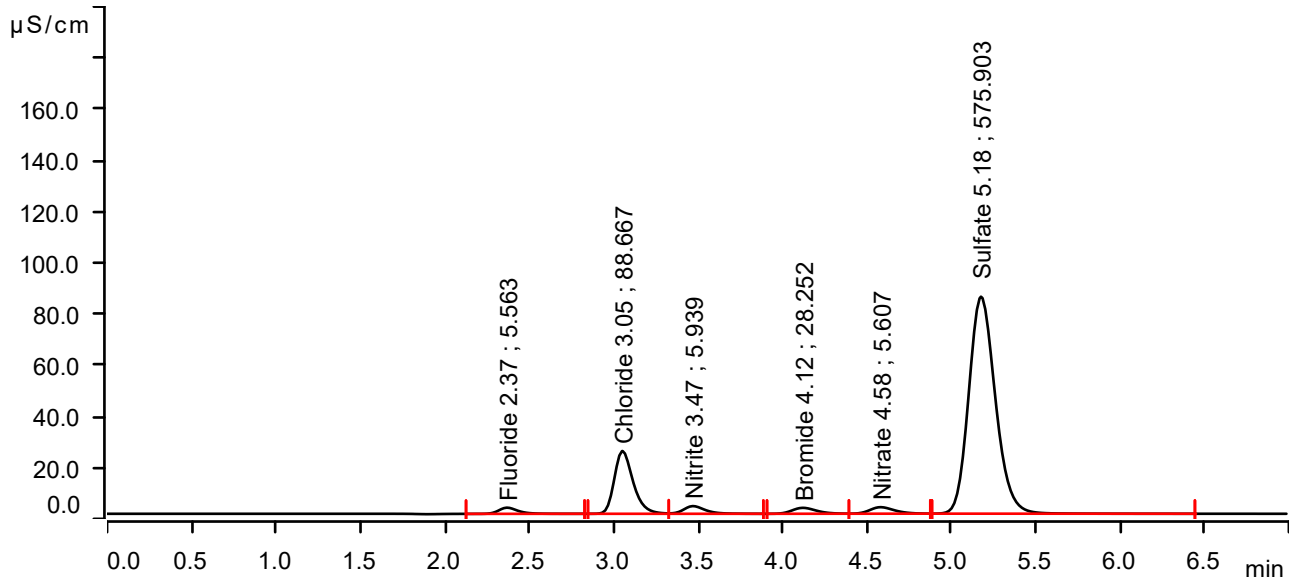
2023-07-18 10:20:24

Injection Time **2023-07-14 20:49:38 UTC-4**

Sample data

Ident	3695227	
Sample type	Spiking 1	
Position	66	
Injections	1	
Injection counter	1	
Volume	20	µL
Dilution	10	
Sample amount	1	
Comments (Info 2)	MS, FILT	
Analyst (Info 3)	J1W	
Instrument (Info 4)	IC-12	

Anions



Peak number	Component name	Retention time	Area	Height	Concentration
		min	(µS/cm) x min	µS/cm	ppm
1	Fluoride	2.370	0.3194	2.408	5.563
2	Chloride	3.053	3.1685	24.520	88.667
3	Nitrite	3.470	0.4460	2.997	5.939
4	Bromide	4.122	0.3870	2.309	28.252
5	Nitrate	4.582	0.4318	2.547	5.607
6	Sulfate	5.175	15.5007	84.724	575.903

F Concentration on Column	0.556	ppm
Cl Concentration on Column	8.867	ppm
NO2 Concentration on Column	0.594	ppm
Br Concentration on Column	2.825	ppm
NO3 Concentration on Column	0.561	ppm
SO4 Concentration on Column	57.590	ppm

MagIC Net

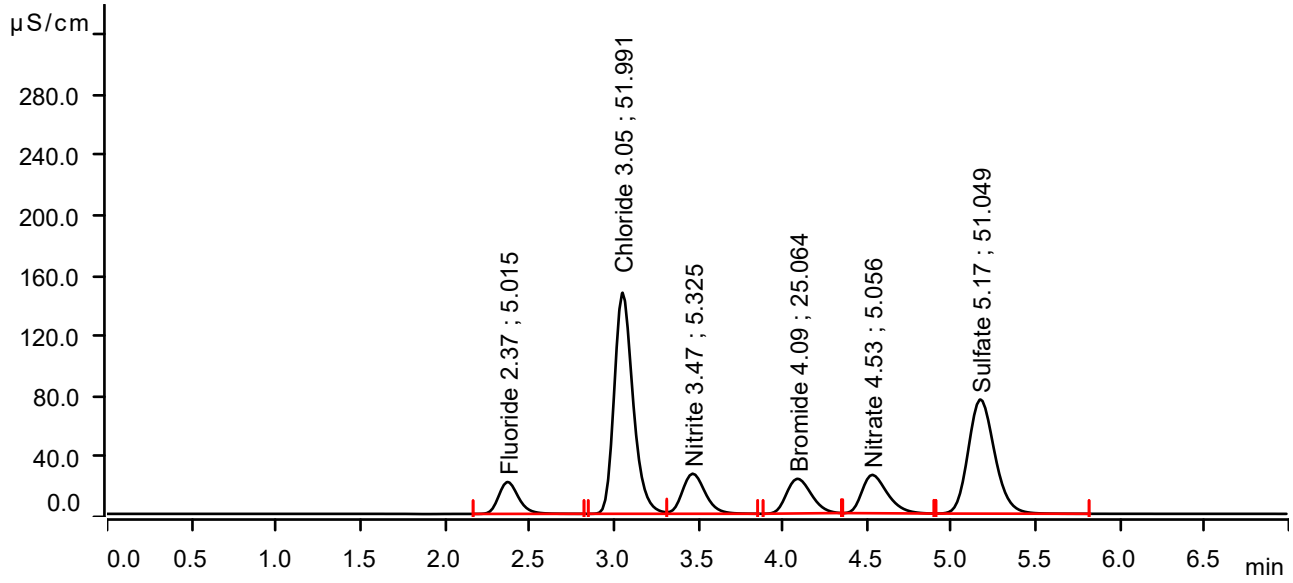
2023-07-18 10:20:25

Injection Time **2023-07-14 21:00:08 UTC-4**

Sample data

Ident	3695228
Sample type	Check standard 3
Position	133
Injections	1
Injection counter	1
Volume	20 µL
Dilution	1
Sample amount	1
Comments (Info 2)	LCS/CCV
Analyst (Info 3)	J1W
Instrument (Info 4)	IC-12

Anions



Peak number	Component name	Retention time min	Area (µS/cm) x min	Height µS/cm	Concentration ppm
1	Fluoride	2.373	2.8864	21.153	5.015
2	Chloride	3.053	19.0120	146.751	51.991
3	Nitrite	3.468	4.1632	26.594	5.325
4	Bromide	4.090	3.9156	22.965	25.064
5	Nitrate	4.532	4.4336	25.447	5.056
6	Sulfate	5.172	13.7457	75.780	51.049

F Concentration on Column	5.015	ppm
Cl Concentration on Column	51.991	ppm
NO2 Concentration on Column	5.325	ppm
Br Concentration on Column	25.064	ppm
NO3 Concentration on Column	5.056	ppm
SO4 Concentration on Column	51.049	ppm

ALS

MagIC Net

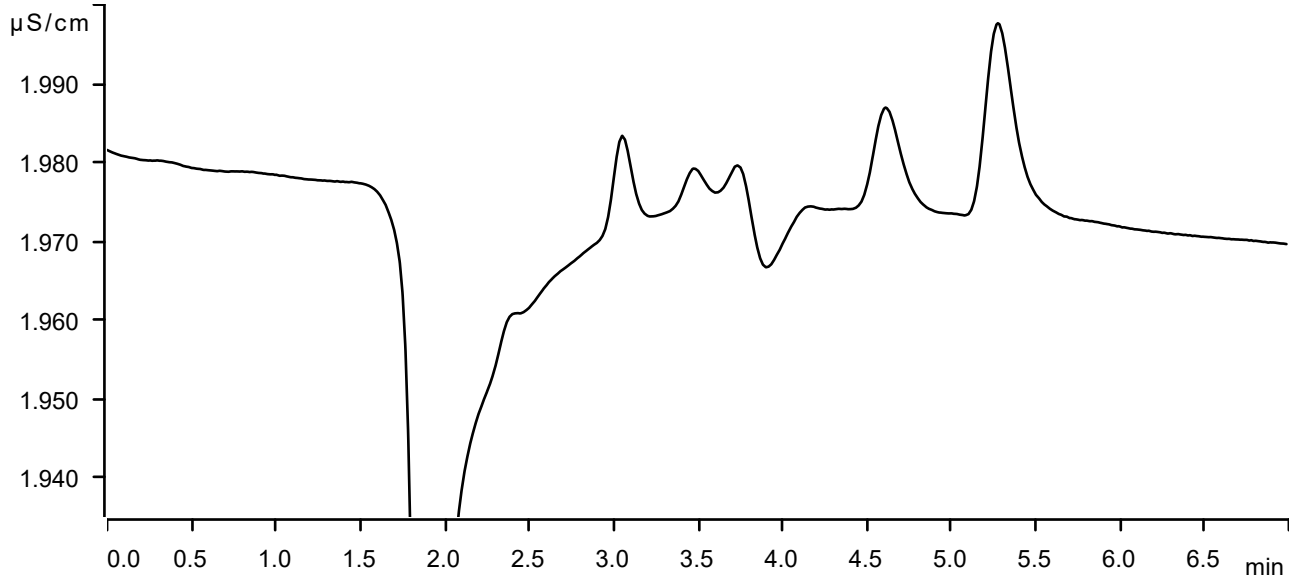
2023-07-18 10:20:26

Injection Time **2023-07-14 21:10:37 UTC-4**

Sample data

Ident	3695229	
Sample type	Sample	
Position	122	
Injections	1	
Injection counter	1	
Volume	20	µL
Dilution	1	
Sample amount	1	
Comments (Info 2)	MB	
Analyst (Info 3)	J1W	
Instrument (Info 4)	IC-12	

Anions



F Concentration on Column	invalid	ppm
Cl Concentration on Column	invalid	ppm
NO2 Concentration on Column	invalid	ppm
Br Concentration on Column	invalid	ppm
NO3 Concentration on Column	invalid	ppm
SO4 Concentration on Column	invalid	ppm

ALS

MagIC Net

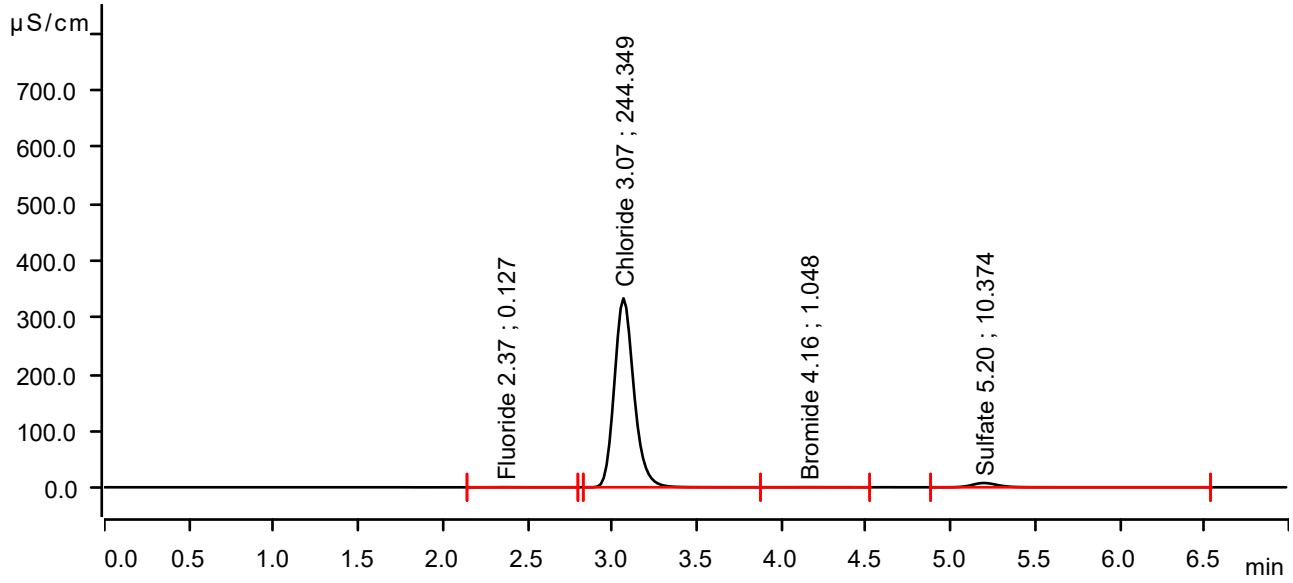
2023-07-18 10:20:27

Injection Time **2023-07-14 21:21:00 UTC-4**

Sample data

Ident	3311951004	
Sample type	Sample	
Position	67	
Injections	1	
Injection counter	1	
Volume	20	µL
Dilution	2	
Sample amount	1	
Comments (Info 2)	FILT	
Analyst (Info 3)	J1W	
Instrument (Info 4)	IC-12	

Anions



Peak number	Component name	Retention time	Area	Height	Concentration
		min	(µS/cm) x min	µS/cm	ppm
1	Fluoride	2.368	0.0249	0.158	0.127
2	Chloride	3.068	44.5652	331.767	244.349
3	Bromide	4.160	0.0280	0.144	1.048
4	Sulfate	5.197	1.3180	7.486	10.374

F Concentration on Column	0.063	ppm
Cl Concentration on Column	122.175	ppm
NO2 Concentration on Column	invalid	ppm
Br Concentration on Column	0.524	ppm
NO3 Concentration on Column	invalid	ppm
SO4 Concentration on Column	5.187	ppm

MagIC Net

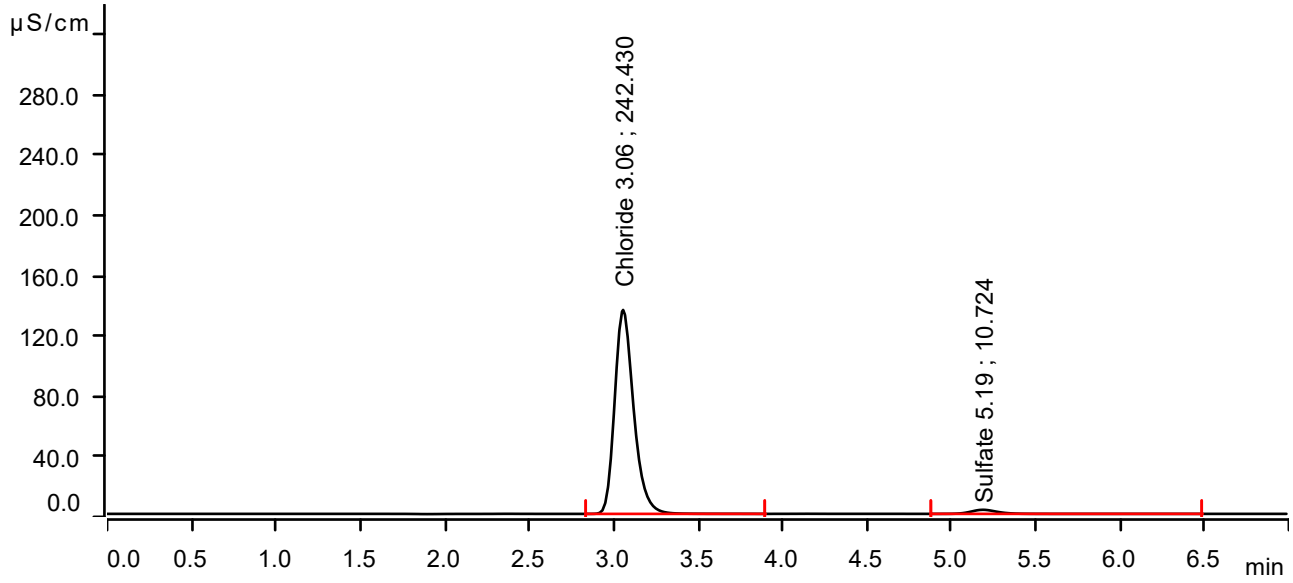
2023-07-18 10:20:28

Injection Time **2023-07-14 21:31:29 UTC-4**

Sample data

Ident	3311951004	
Sample type	Sample	
Position	68	
Injections	1	
Injection counter	1	
Volume	20	µL
Dilution	5	
Sample amount	1	
Comments (Info 2)	FILT	
Analyst (Info 3)	J1W	
Instrument (Info 4)	IC-12	

Anions



Peak number	Component name	Retention time	Area	Height	Concentration
		min	(µS/cm) x min	µS/cm	ppm
1	Chloride	3.057	17.7282	135.364	242.430
2	Sulfate	5.187	0.4860	2.700	10.724

F Concentration on Column	invalid	ppm
Cl Concentration on Column	48.486	ppm
NO2 Concentration on Column	invalid	ppm
Br Concentration on Column	invalid	ppm
NO3 Concentration on Column	invalid	ppm
SO4 Concentration on Column	2.145	ppm

MagIC Net

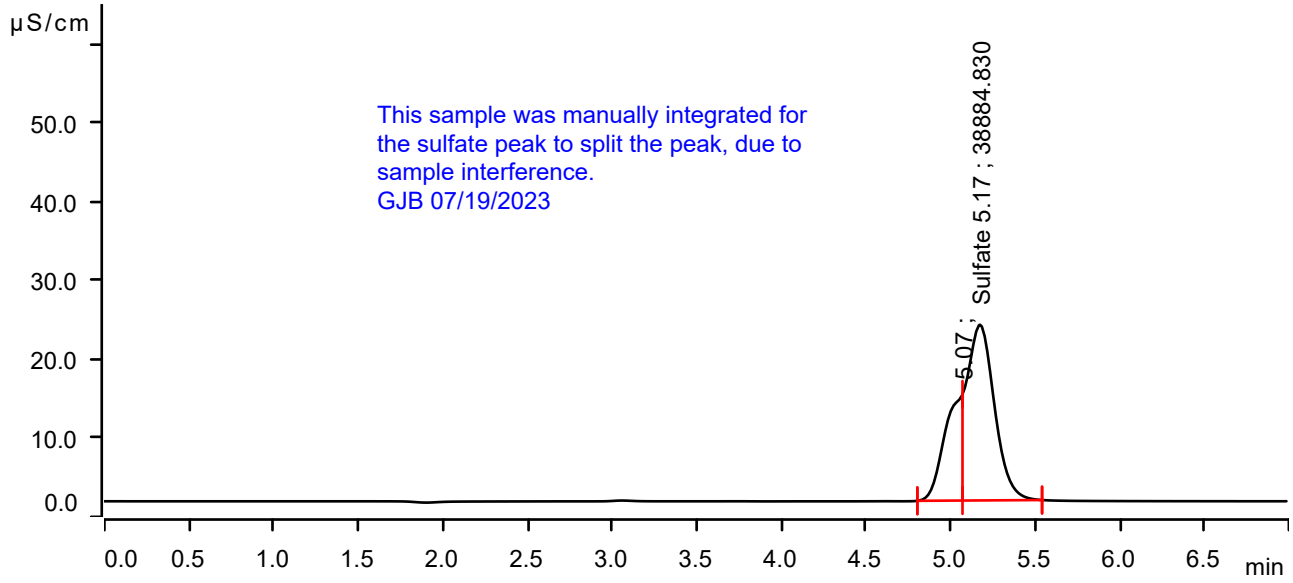
2023-07-19 5:32:50

Injection Time **2023-07-14 21:41:58 UTC-4**

Sample data

Ident	3312236001	
Sample type	Sample	
Position	69	
Injections	1	
Injection counter	1	
Volume	20	µL
Dilution	2500	
Sample amount	1	
Comments (Info 2)	FILT	
Analyst (Info 3)	J1W	
Instrument (Info 4)	IC-12	

Anions



Peak number	Component name	Retention time min	Area (µS/cm) x min	Height µS/cm	Concentration ppm
2	Sulfate	5.173	4.1462	22.297	38884.830

F Concentration on Column	invalid	ppm
Cl Concentration on Column	invalid	ppm
NO2 Concentration on Column	invalid	ppm
Br Concentration on Column	invalid	ppm
NO3 Concentration on Column	invalid	ppm
SO4 Concentration on Column	15.554	ppm

ALS

MagIC Net

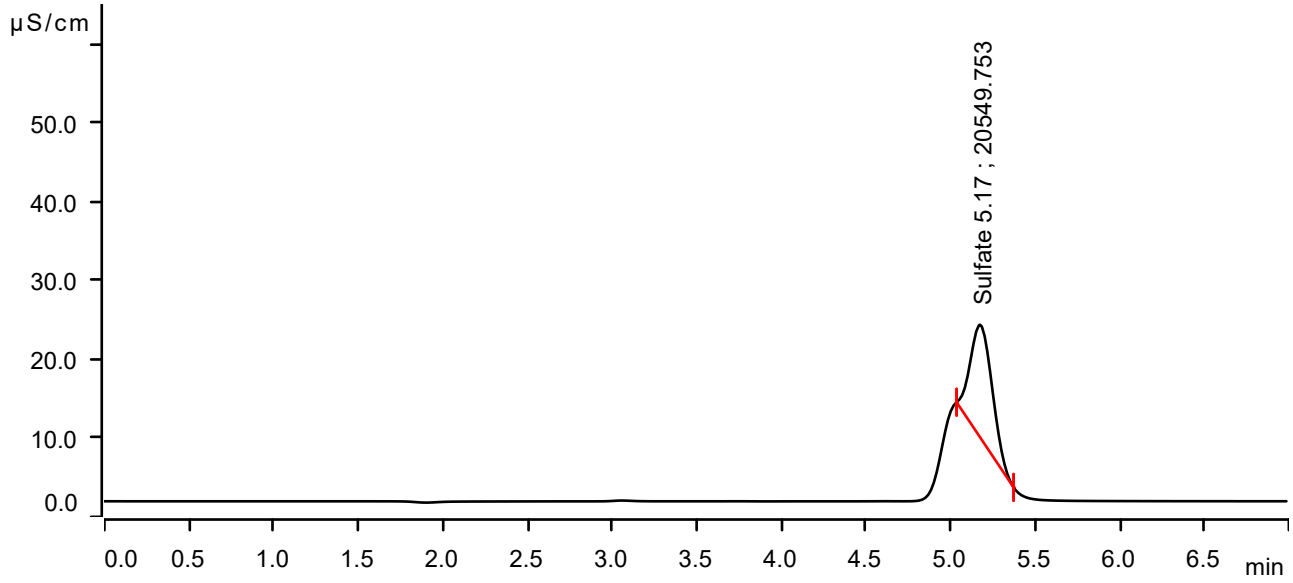
2023-07-18 10:20:29

Injection Time **2023-07-14 21:41:58 UTC-4**

Sample data

Ident	3312236001	
Sample type	Sample	
Position	69	
Injections	1	
Injection counter	1	
Volume	20	µL
Dilution	2500	
Sample amount	1	
Comments (Info 2)	FILT	
Analyst (Info 3)	J1W	
Instrument (Info 4)	IC-12	

Anions



Peak number	Component name	Retention time	Area	Height	Concentration
		min	(µS/cm) x min	µS/cm	ppm
1	Sulfate	5.173	2.1466	14.273	20549.753

F Concentration on Column	invalid	ppm
Cl Concentration on Column	invalid	ppm
NO2 Concentration on Column	invalid	ppm
Br Concentration on Column	invalid	ppm
NO3 Concentration on Column	invalid	ppm
SO4 Concentration on Column	8.220	ppm

MagIC Net

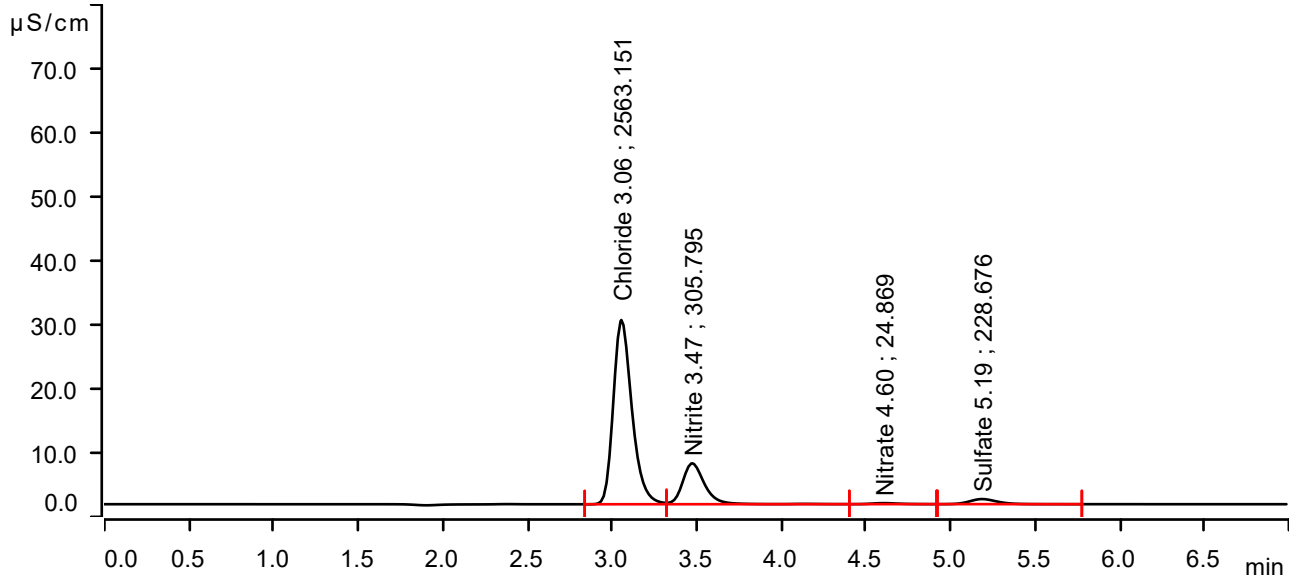
2023-07-18 10:20:30

Injection Time **2023-07-14 21:52:26 UTC-4**

Sample data

Ident	3313027001	
Sample type	Sample	
Position	70	
Injections	1	
Injection counter	1	
Volume	20	µL
Dilution	250	
Sample amount	1	
Comments (Info 2)	FILT	
Analyst (Info 3)	J1W	
Instrument (Info 4)	IC-12	

Anions



Peak number	Component name	Retention time min	Area (µS/cm) x min	Height µS/cm	Concentration ppm
1	Chloride	3.055	3.6794	28.770	2563.151
2	Nitrite	3.473	0.9608	6.387	305.795
3	Nitrate	4.603	0.0288	0.158	24.869
4	Sulfate	5.185	0.1493	0.794	228.676

F Concentration on Column	invalid	ppm
Cl Concentration on Column	10.253	ppm
NO2 Concentration on Column	1.223	ppm
Br Concentration on Column	invalid	ppm
NO3 Concentration on Column	0.099	ppm
SO4 Concentration on Column	0.915	ppm

MagIC Net

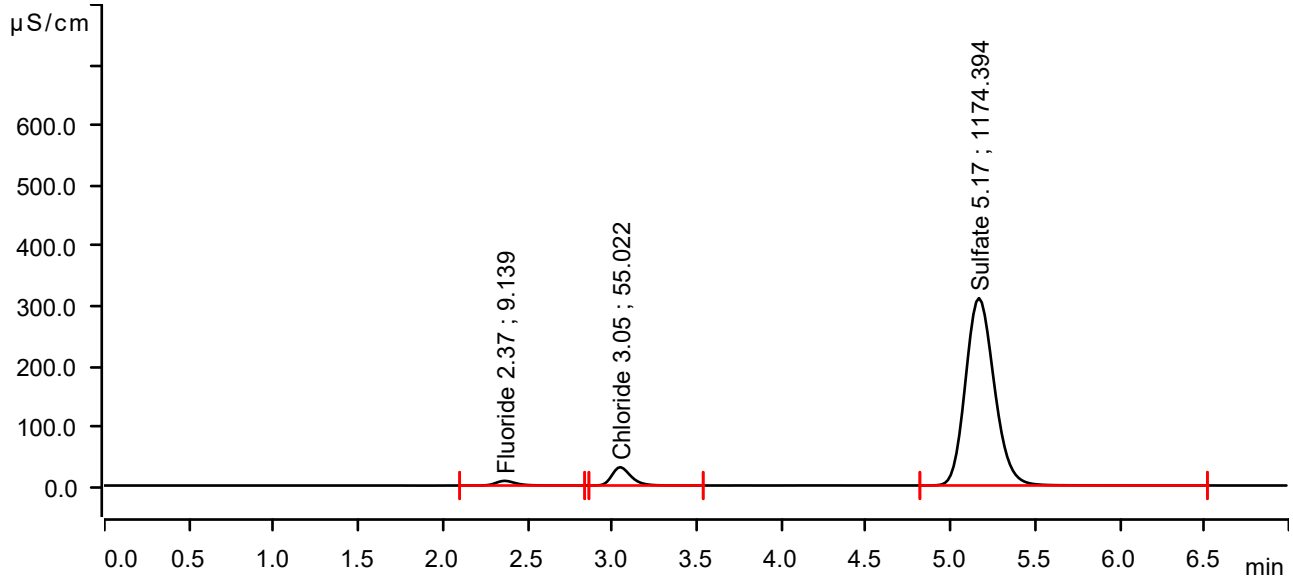
2023-07-18 10:20:31

Injection Time **2023-07-14 22:02:55 UTC-4**

Sample data

Ident	3313031002	
Sample type	Sample	
Position	71	
Injections	1	
Injection counter	1	
Volume	20	µL
Dilution	5	
Sample amount	1	
Comments (Info 2)	FILT	
Analyst (Info 3)	J1W	
Instrument (Info 4)	IC-12	

Anions



Peak number	Component name	Retention time	Area	Height	Concentration
		min	(µS/cm) x min	µS/cm	ppm
1	Fluoride	2.365	1.0692	7.738	9.139
2	Chloride	3.048	3.9564	30.304	55.022
3	Sulfate	5.167	61.3916	310.819	1174.394

F Concentration on Column	1.828	ppm
Cl Concentration on Column	11.004	ppm
NO2 Concentration on Column	invalid	ppm
Br Concentration on Column	invalid	ppm
NO3 Concentration on Column	invalid	ppm
SO4 Concentration on Column	234.879	ppm

MagIC Net

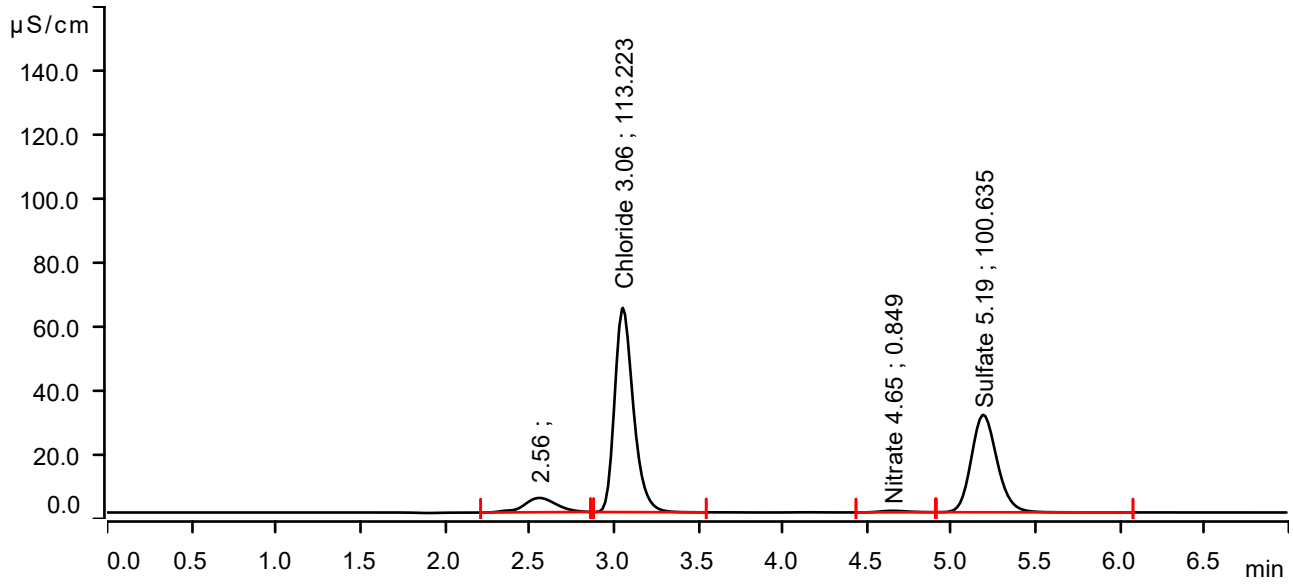
2023-07-18 10:20:32

Injection Time **2023-07-14 22:13:23 UTC-4**

Sample data

Ident	3313013003	
Sample type	Sample	
Position	72	
Injections	1	
Injection counter	1	
Volume	20	µL
Dilution	5	
Sample amount	1	
Comments (Info 2)	FILT	
Analyst (Info 3)	J1W	
Instrument (Info 4)	IC-12	

Anions



Peak number	Component name	Retention time	Area	Height	Concentration
		min	(µS/cm) x min	µS/cm	ppm
2	Chloride	3.055	8.2421	63.779	113.223
3	Nitrate	4.653	0.0902	0.474	0.849
4	Sulfate	5.188	5.3902	30.441	100.635

F Concentration on Column	invalid	ppm
Cl Concentration on Column	22.645	ppm
NO2 Concentration on Column	invalid	ppm
Br Concentration on Column	invalid	ppm
NO3 Concentration on Column	0.170	ppm
SO4 Concentration on Column	20.127	ppm

ALS

MagIC Net

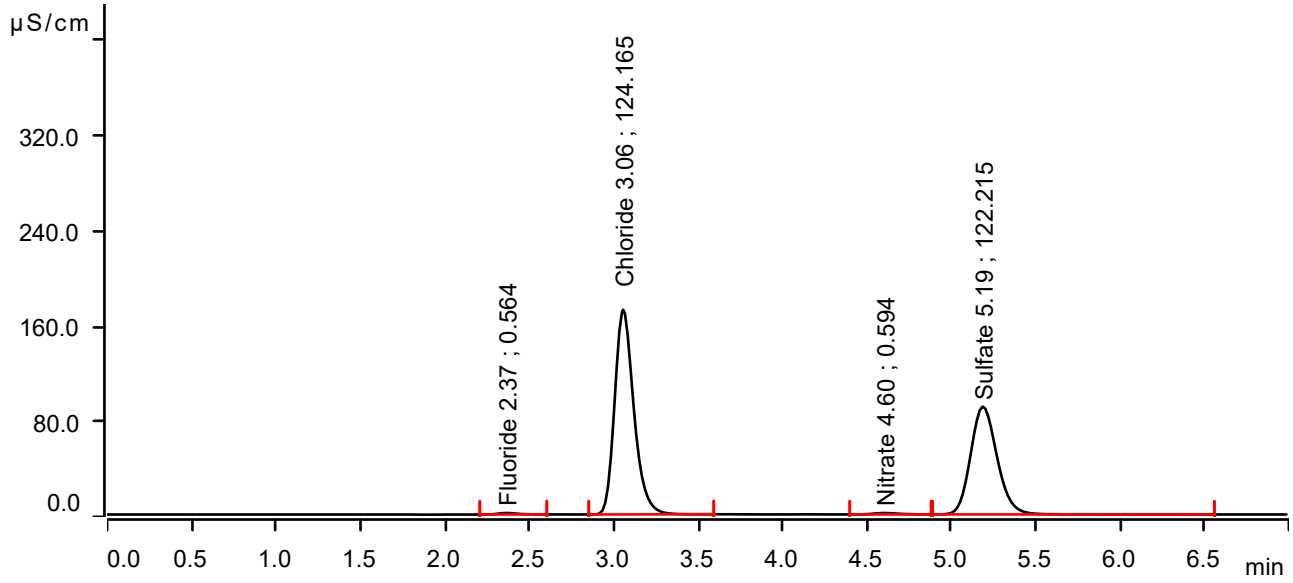
2023-07-18 10:20:34

Injection Time **2023-07-14 22:23:51 UTC-4**

Sample data

Ident	3313013005	
Sample type	Sample	
Position	73	
Injections	1	
Injection counter	1	
Volume	20	µL
Dilution	2	
Sample amount	1	
Comments (Info 2)	FILT	
Analyst (Info 3)	J1W	
Instrument (Info 4)	IC-12	

Anions



Peak number	Component name	Retention time	Area	Height	Concentration
		min	(µS/cm) x min	µS/cm	ppm
1	Fluoride	2.368	0.1557	1.204	0.564
2	Chloride	3.057	22.7038	171.852	124.165
3	Nitrate	4.603	0.2014	1.171	0.594
4	Sulfate	5.187	16.4425	90.443	122.215

F Concentration on Column	0.282	ppm
Cl Concentration on Column	62.083	ppm
NO2 Concentration on Column	invalid	ppm
Br Concentration on Column	invalid	ppm
NO3 Concentration on Column	0.297	ppm
SO4 Concentration on Column	61.108	ppm

ALS

MagIC Net

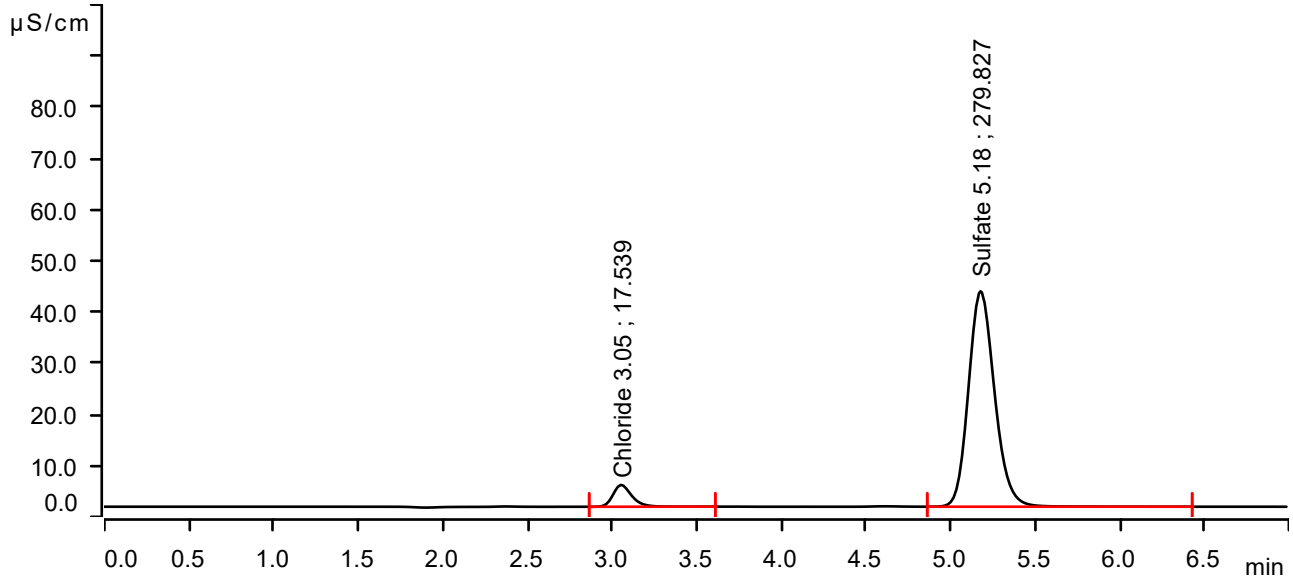
2023-07-18 10:20:35

Injection Time **2023-07-14 22:34:18 UTC-4**

Sample data

Ident	3312149002	
Sample type	Sample	
Position	74	
Injections	1	
Injection counter	1	
Volume	20	µL
Dilution	10	
Sample amount	1	
Comments (Info 2)	FILT	
Analyst (Info 3)	J1W	
Instrument (Info 4)	IC-12	

Anions



Peak number	Component name	Retention time	Area	Height	Concentration
		min	(µS/cm) x min	µS/cm	ppm
1	Chloride	3.053	0.5450	4.249	17.539
2	Sulfate	5.177	7.5222	42.061	279.827

F Concentration on Column	invalid	ppm
Cl Concentration on Column	1.754	ppm
NO2 Concentration on Column	invalid	ppm
Br Concentration on Column	invalid	ppm
NO3 Concentration on Column	invalid	ppm
SO4 Concentration on Column	27.983	ppm

MagIC Net

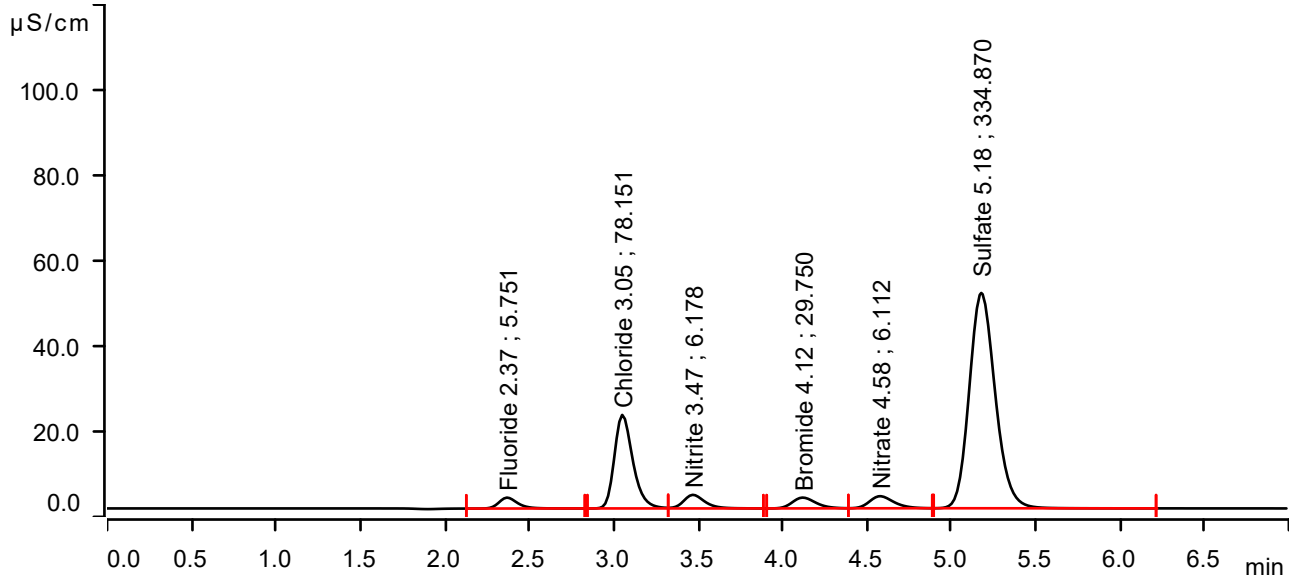
2023-07-18 10:20:36

Injection Time **2023-07-14 22:44:45 UTC-4**

Sample data

Ident	3695230	
Sample type	Spiking 1	
Position	75	
Injections	1	
Injection counter	1	
Volume	20	µL
Dilution	10	
Sample amount	1	
Comments (Info 2)	MS, FILT	
Analyst (Info 3)	J1W	
Instrument (Info 4)	IC-12	

Anions



Peak number	Component name	Retention time	Area	Height	Concentration
		min	(µS/cm) x min	µS/cm	ppm
1	Fluoride	2.370	0.3306	2.544	5.751
2	Chloride	3.052	2.7808	21.899	78.151
3	Nitrite	3.470	0.4656	3.177	6.178
4	Bromide	4.120	0.4104	2.523	29.750
5	Nitrate	4.578	0.4760	2.831	6.112
6	Sulfate	5.177	9.0123	50.442	334.870

F Concentration on Column	0.575	ppm
Cl Concentration on Column	7.815	ppm
NO2 Concentration on Column	0.618	ppm
Br Concentration on Column	2.975	ppm
NO3 Concentration on Column	0.611	ppm
SO4 Concentration on Column	33.487	ppm

MagIC Net

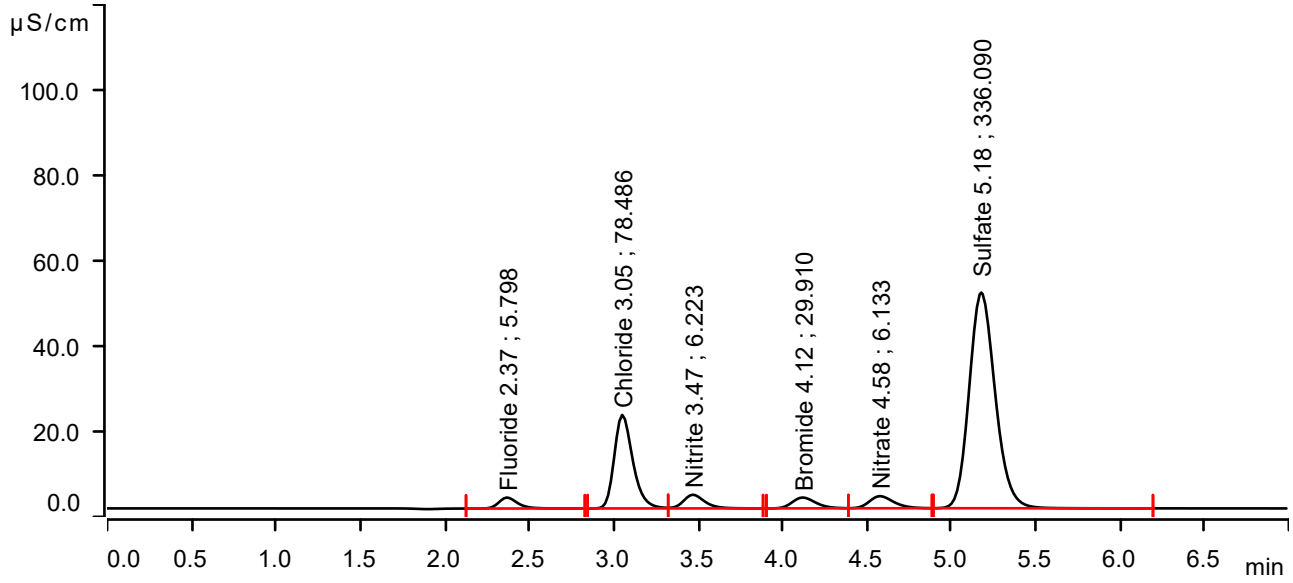
2023-07-18 10:20:37

Injection Time **2023-07-14 22:55:12 UTC-4**

Sample data

Ident	3695231	
Sample type	Spiking 1	
Position	76	
Injections	1	
Injection counter	1	
Volume	20	µL
Dilution	10	
Sample amount	1	
Comments (Info 2)	MSD, FILT	
Analyst (Info 3)	J1W	
Instrument (Info 4)	IC-12	

Anions



Peak number	Component name	Retention time	Area	Height	Concentration
		min	(µS/cm) x min	µS/cm	ppm
1	Fluoride	2.370	0.3334	2.556	5.798
2	Chloride	3.052	2.7932	21.893	78.486
3	Nitrite	3.470	0.4693	3.193	6.223
4	Bromide	4.120	0.4129	2.532	29.910
5	Nitrate	4.577	0.4779	2.838	6.133
6	Sulfate	5.177	9.0453	50.530	336.090

F Concentration on Column	0.580	ppm
Cl Concentration on Column	7.849	ppm
NO2 Concentration on Column	0.622	ppm
Br Concentration on Column	2.991	ppm
NO3 Concentration on Column	0.613	ppm
SO4 Concentration on Column	33.609	ppm

MagIC Net

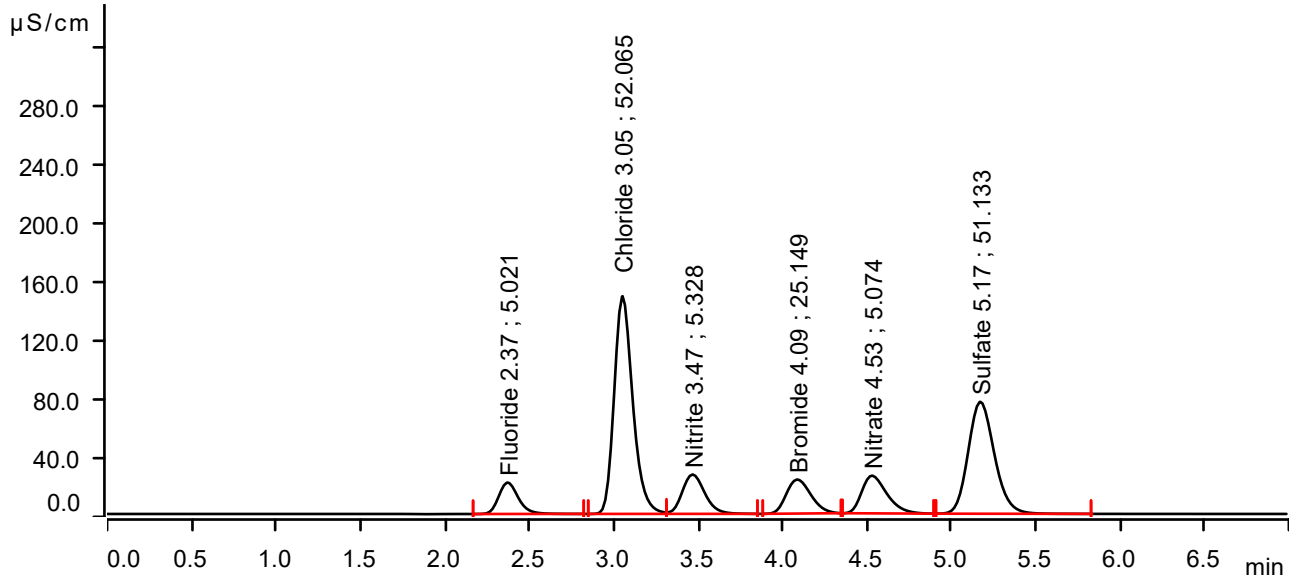
2023-07-18 10:20:38

Injection Time **2023-07-14 23:05:39 UTC-4**

Sample data

Ident	3695232	
Sample type	Check standard 3	
Position	133	
Injections	1	
Injection counter	1	
Volume	20	µL
Dilution	1	
Sample amount	1	
Comments (Info 2)	CCV	
Analyst (Info 3)	J1W	
Instrument (Info 4)	IC-12	

Anions



Peak number	Component name	Retention time min	Area (µS/cm) x min	Height µS/cm	Concentration ppm
1	Fluoride	2.373	2.8898	21.428	5.021
2	Chloride	3.053	19.0391	148.756	52.065
3	Nitrite	3.468	4.1650	26.882	5.328
4	Bromide	4.088	3.9293	23.217	25.149
5	Nitrate	4.530	4.4498	25.732	5.074
6	Sulfate	5.172	13.7684	76.490	51.133

F Concentration on Column	5.021	ppm
Cl Concentration on Column	52.065	ppm
NO2 Concentration on Column	5.328	ppm
Br Concentration on Column	25.149	ppm
NO3 Concentration on Column	5.074	ppm
SO4 Concentration on Column	51.133	ppm

ALS

MagIC Net

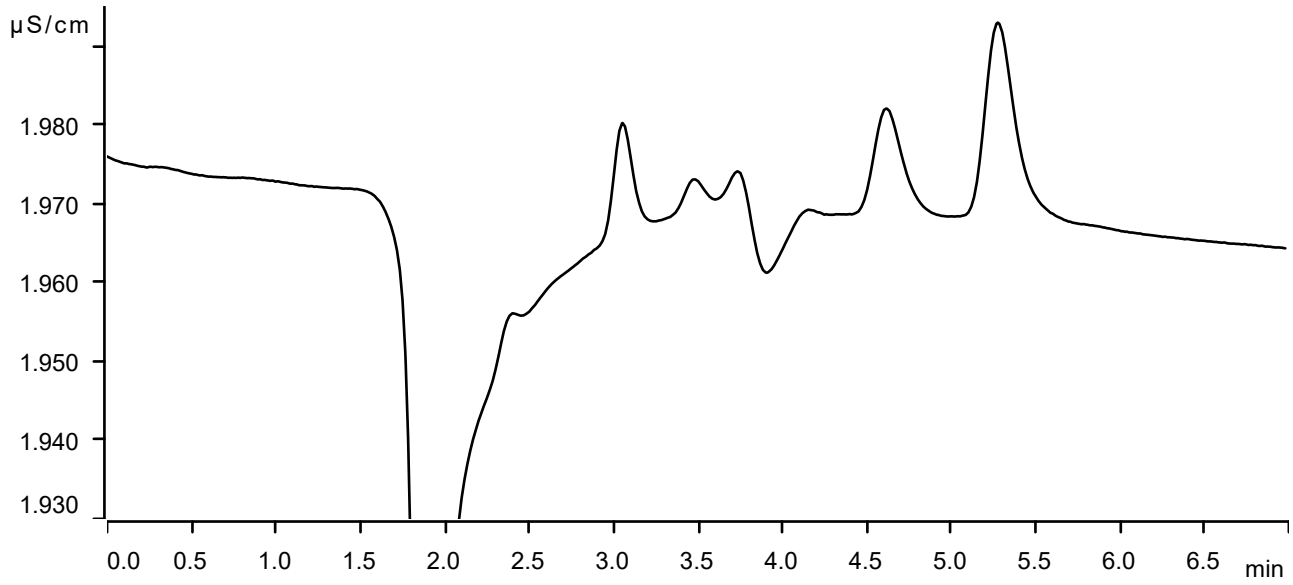
2023-07-18 10:20:39

Injection Time **2023-07-14 23:16:08 UTC-4**

Sample data

Ident	3695233	
Sample type	Sample	
Position	122	
Injections	1	
Injection counter	1	
Volume	20	µL
Dilution	1	
Sample amount	1	
Comments (Info 2)	MB	
Analyst (Info 3)	J1W	
Instrument (Info 4)	IC-12	

Anions



F Concentration on Column	invalid	ppm
Cl Concentration on Column	invalid	ppm
NO2 Concentration on Column	invalid	ppm
Br Concentration on Column	invalid	ppm
NO3 Concentration on Column	invalid	ppm
SO4 Concentration on Column	invalid	ppm

ALS

MagIC Net

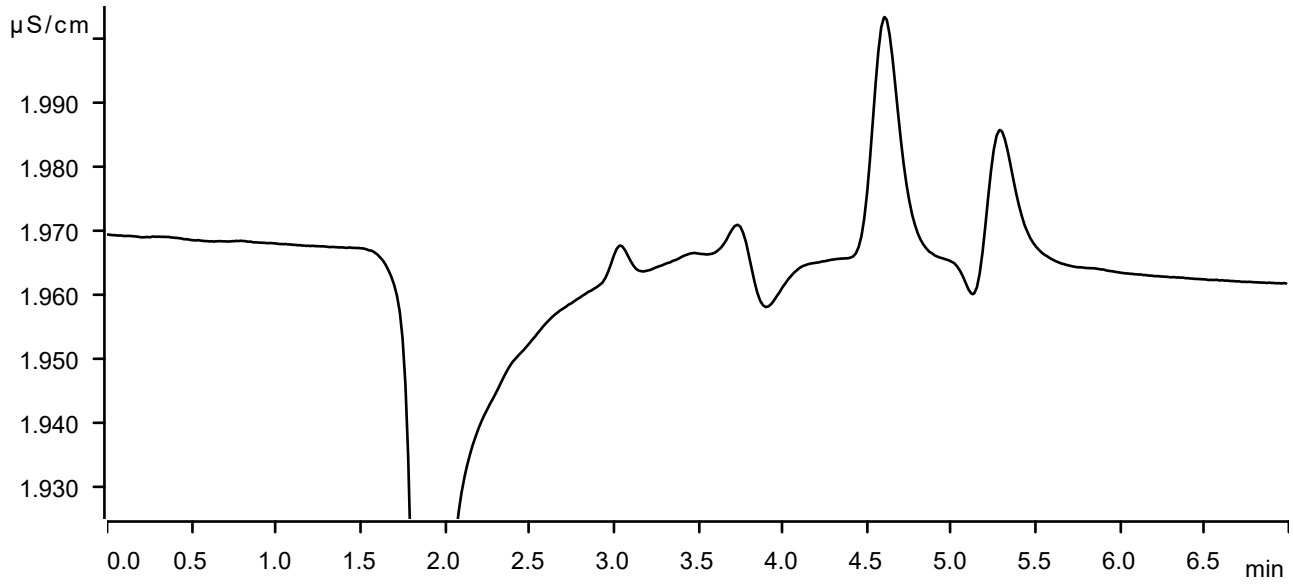
2023-07-18 10:20:40

Injection Time **2023-07-14 23:26:31 UTC-4**

Sample data

Ident	3694830	
Sample type	Sample	
Position	119	
Injections	1	
Injection counter	1	
Volume	20	µL
Dilution	1	
Sample amount	1	
Comments (Info 2)	MB DOD	
Analyst (Info 3)	J1W	
Instrument (Info 4)	IC-12	

Anions



F Concentration on Column	invalid	ppm
Cl Concentration on Column	invalid	ppm
NO2 Concentration on Column	invalid	ppm
Br Concentration on Column	invalid	ppm
NO3 Concentration on Column	invalid	ppm
SO4 Concentration on Column	invalid	ppm

ALS

MagIC Net

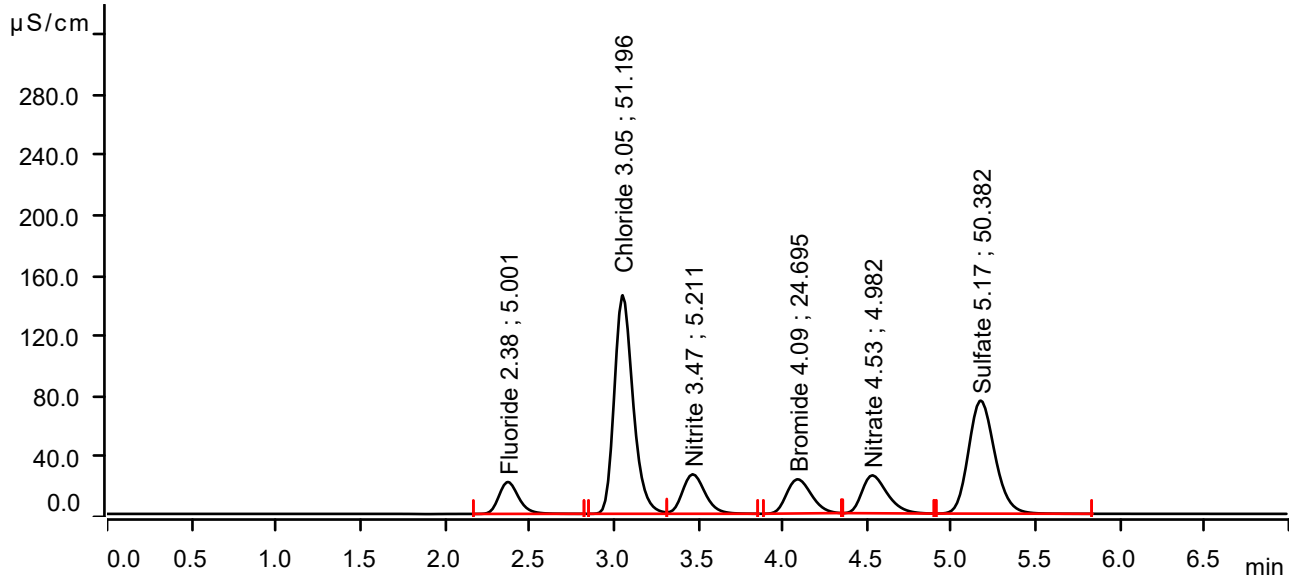
2023-07-18 10:20:41

Injection Time **2023-07-14 23:36:52 UTC-4**

Sample data

Ident	3694831	
Sample type	Check standard 3	
Position	130	
Injections	1	
Injection counter	1	
Volume	20	µL
Dilution	1	
Sample amount	1	
Comments (Info 2)	LCS/CCV	
Analyst (Info 3)	J1W	
Instrument (Info 4)	IC-12	

Anions



Peak number	Component name	Retention time	Area	Height	Concentration
		min	(µS/cm) x min	µS/cm	ppm
1	Fluoride	2.375	2.8789	21.164	5.001
2	Chloride	3.053	18.7208	145.084	51.196
3	Nitrite	3.468	4.0777	26.188	5.211
4	Bromide	4.090	3.8563	22.656	24.695
5	Nitrate	4.532	4.3665	25.132	4.982
6	Sulfate	5.173	13.5666	75.040	50.382

F Concentration on Column	5.001	ppm
Cl Concentration on Column	51.196	ppm
NO2 Concentration on Column	5.211	ppm
Br Concentration on Column	24.695	ppm
NO3 Concentration on Column	4.982	ppm
SO4 Concentration on Column	50.382	ppm

ALS

MagIC Net

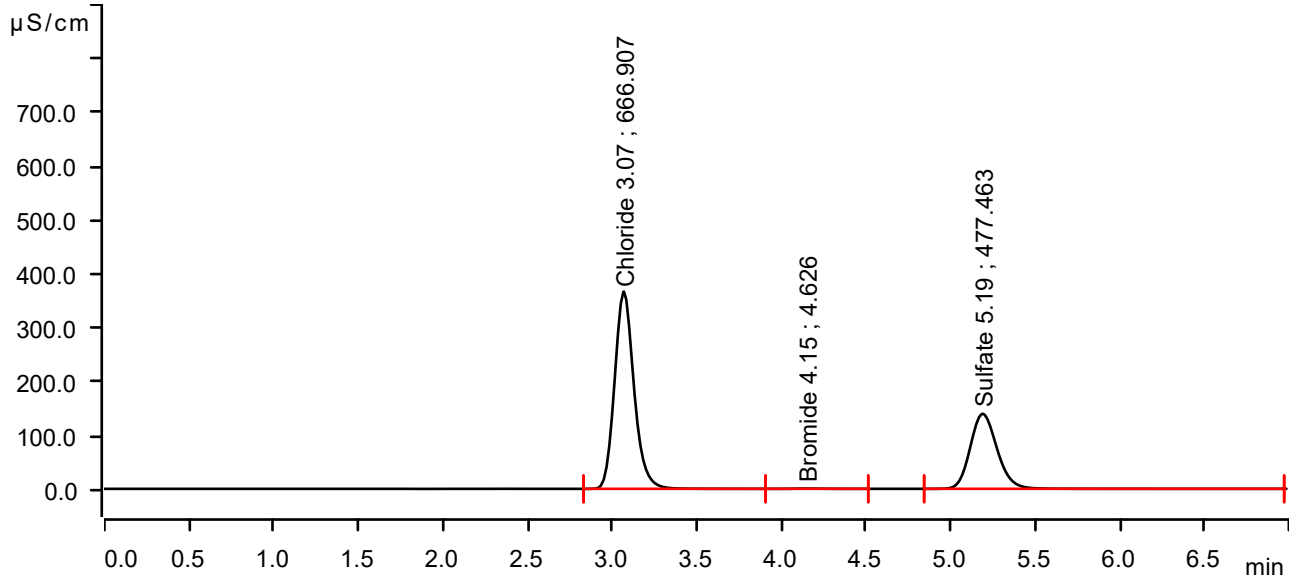
2023-07-18 10:20:42

Injection Time **2023-07-14 23:47:19 UTC-4**

Sample data

Ident	3312815001	
Sample type	Sample	
Position	77	
Injections	1	
Injection counter	1	
Volume	20	µL
Dilution	5	
Sample amount	1	
Comments (Info 2)	FILT	
Analyst (Info 3)	J1W	
Instrument (Info 4)	IC-12	

Anions



Peak number	Component name	Retention time	Area	Height	Concentration
		min	(µS/cm) x min	µS/cm	ppm
1	Chloride	3.070	48.6190	365.856	666.907
2	Bromide	4.150	0.0905	0.497	4.626
3	Sulfate	5.190	25.5830	139.152	477.463

F Concentration on Column	invalid	ppm
Cl Concentration on Column	133.381	ppm
NO2 Concentration on Column	invalid	ppm
Br Concentration on Column	0.925	ppm
NO3 Concentration on Column	invalid	ppm
SO4 Concentration on Column	95.493	ppm

ALS

MagIC Net

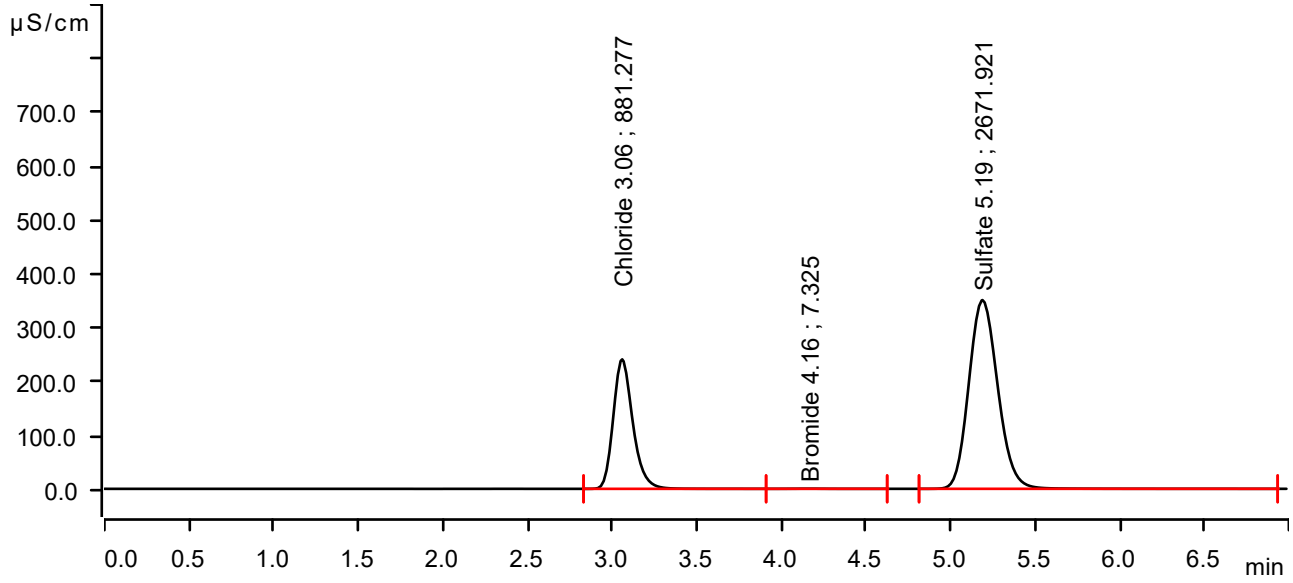
2023-07-18 10:20:43

Injection Time **2023-07-14 23:57:45 UTC-4**

Sample data

Ident	3312815002	
Sample type	Sample	
Position	78	
Injections	1	
Injection counter	1	
Volume	20	µL
Dilution	10	
Sample amount	1	
Comments (Info 2)	FILT	
Analyst (Info 3)	J1W	
Instrument (Info 4)	IC-12	

Anions



Peak number	Component name	Retention time	Area	Height	Concentration
		min	(µS/cm) x min	µS/cm	ppm
1	Chloride	3.060	32.2048	240.192	881.277
2	Bromide	4.163	0.0605	0.285	7.325
3	Sulfate	5.188	69.4080	350.030	2671.921

F Concentration on Column	invalid	ppm
Cl Concentration on Column	88.128	ppm
NO2 Concentration on Column	invalid	ppm
Br Concentration on Column	0.733	ppm
NO3 Concentration on Column	invalid	ppm
SO4 Concentration on Column	267.192	ppm

ALS

MagIC Net

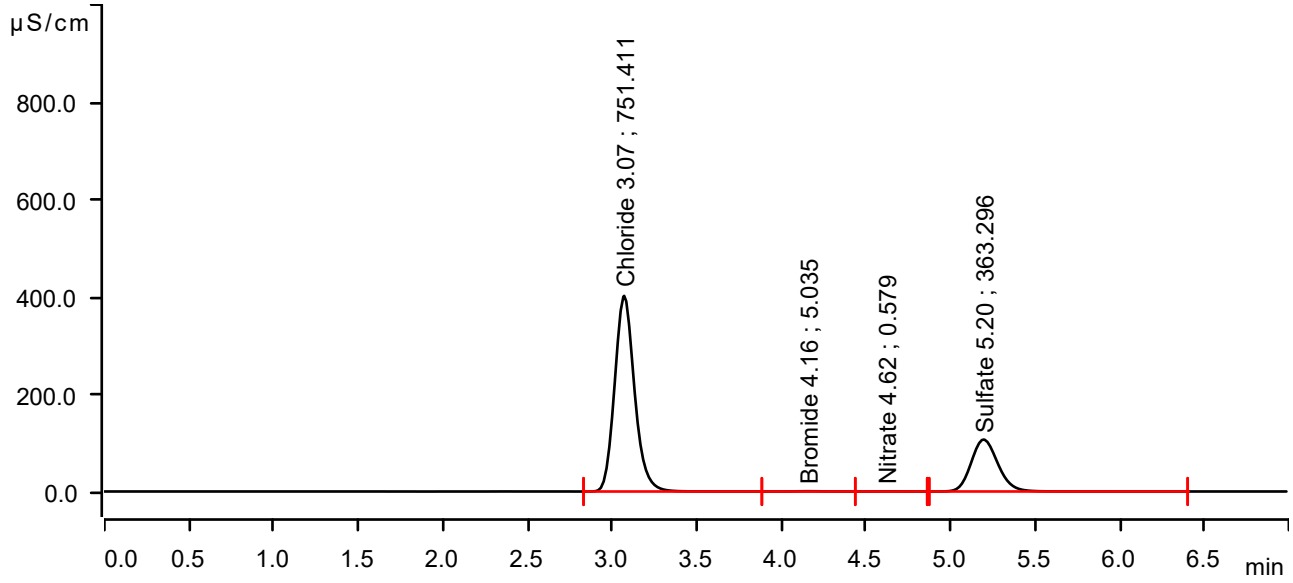
2023-07-18 10:20:44

Injection Time **2023-07-15 00:08:11 UTC-4**

Sample data

Ident	3312815003	
Sample type	Sample	
Position	79	
Injections	1	
Injection counter	1	
Volume	20	µL
Dilution	5	
Sample amount	1	
Comments (Info 2)	FILT	
Analyst (Info 3)	J1W	
Instrument (Info 4)	IC-12	

Anions



Peak number	Component name	Retention time	Area	Height	Concentration
		min	(µS/cm) x min	µS/cm	ppm
1	Chloride	3.072	54.7187	401.031	751.411
2	Bromide	4.157	0.1033	0.568	5.035
3	Nitrate	4.620	0.0430	0.242	0.579
4	Sulfate	5.195	19.5268	106.429	363.296

F Concentration on Column	invalid	ppm
Cl Concentration on Column	150.282	ppm
NO2 Concentration on Column	invalid	ppm
Br Concentration on Column	1.007	ppm
NO3 Concentration on Column	0.116	ppm
SO4 Concentration on Column	72.659	ppm

ALS

MagIC Net

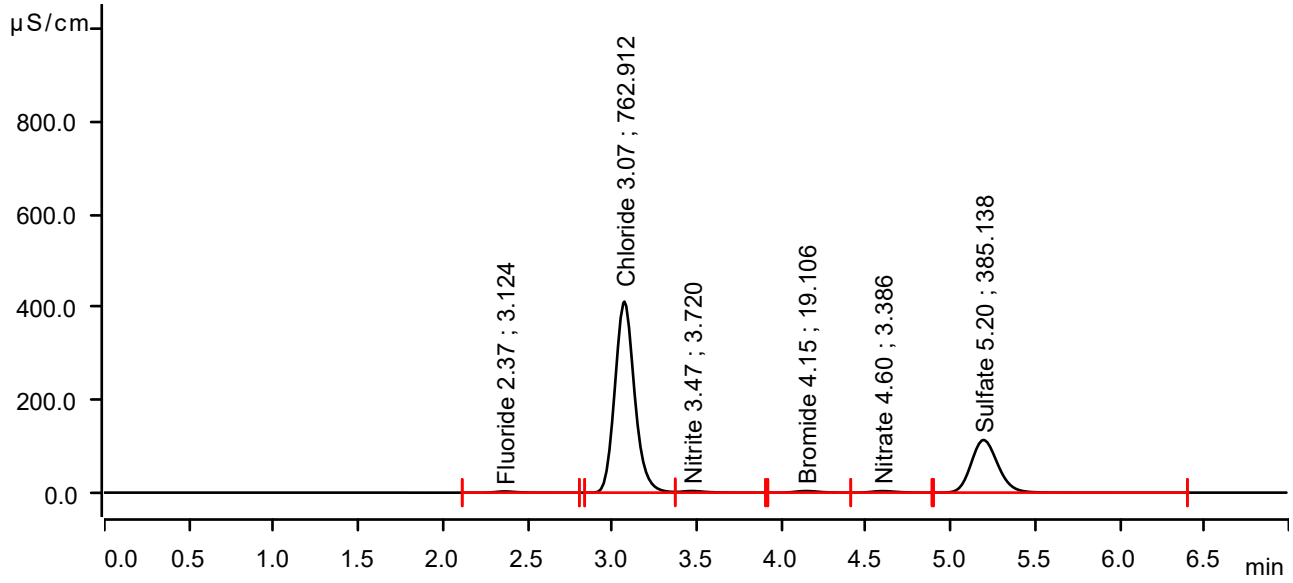
2023-07-18 10:20:45

Injection Time **2023-07-15 00:18:36 UTC-4**

Sample data

Ident	3694832	
Sample type	Spiking 1	
Position	80	
Injections	1	
Injection counter	1	
Volume	20	µL
Dilution	5	
Sample amount	1	
Comments (Info 2)	MS, FILT	
Analyst (Info 3)	J1W	
Instrument (Info 4)	IC-12	

Anions



Peak number	Component name	Retention time	Area	Height	Concentration
		min	(µS/cm) x min	µS/cm	ppm
1	Fluoride	2.365	0.3601	2.537	3.124
2	Chloride	3.073	55.5475	410.271	762.912
3	Nitrite	3.472	0.5694	3.480	3.720
4	Bromide	4.147	0.5427	3.423	19.106
5	Nitrate	4.598	0.5339	3.237	3.386
6	Sulfate	5.195	20.6896	113.029	385.138

F Concentration on Column	0.625	ppm
Cl Concentration on Column	152.582	ppm
NO2 Concentration on Column	0.744	ppm
Br Concentration on Column	3.821	ppm
NO3 Concentration on Column	0.677	ppm
SO4 Concentration on Column	77.028	ppm

ALS

MagIC Net

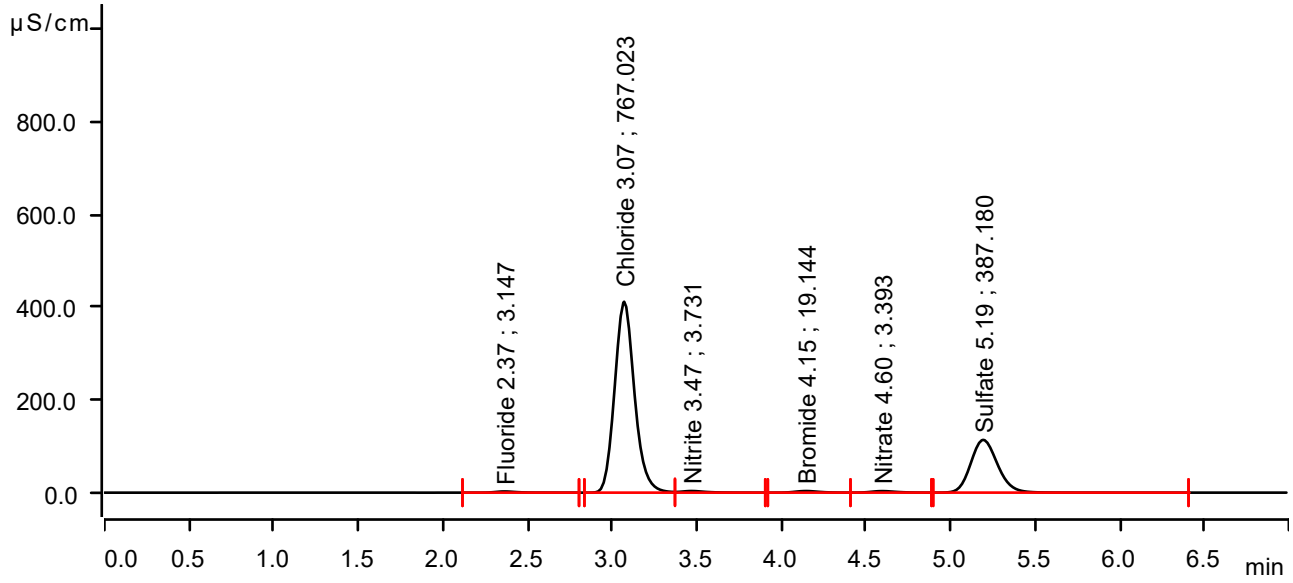
2023-07-18 10:20:47

Injection Time **2023-07-15 00:29:02 UTC-4**

Sample data

Ident	3694833	
Sample type	Spiking 1	
Position	81	
Injections	1	
Injection counter	1	
Volume	20	µL
Dilution	5	
Sample amount	1	
Comments (Info 2)	MSD, FILT	
Analyst (Info 3)	J1W	
Instrument (Info 4)	IC-12	

Anions



Peak number	Component name	Retention time min	Area (µS/cm) x min	Height µS/cm	Concentration ppm
1	Fluoride	2.365	0.3629	2.543	3.147
2	Chloride	3.072	55.8437	409.997	767.023
3	Nitrite	3.470	0.5711	3.474	3.731
4	Bromide	4.145	0.5439	3.418	19.144
5	Nitrate	4.595	0.5351	3.234	3.393
6	Sulfate	5.192	20.7982	113.242	387.180

F Concentration on Column	0.629	ppm
Cl Concentration on Column	153.405	ppm
NO2 Concentration on Column	0.746	ppm
Br Concentration on Column	3.829	ppm
NO3 Concentration on Column	0.679	ppm
SO4 Concentration on Column	77.436	ppm

ALS

MagIC Net

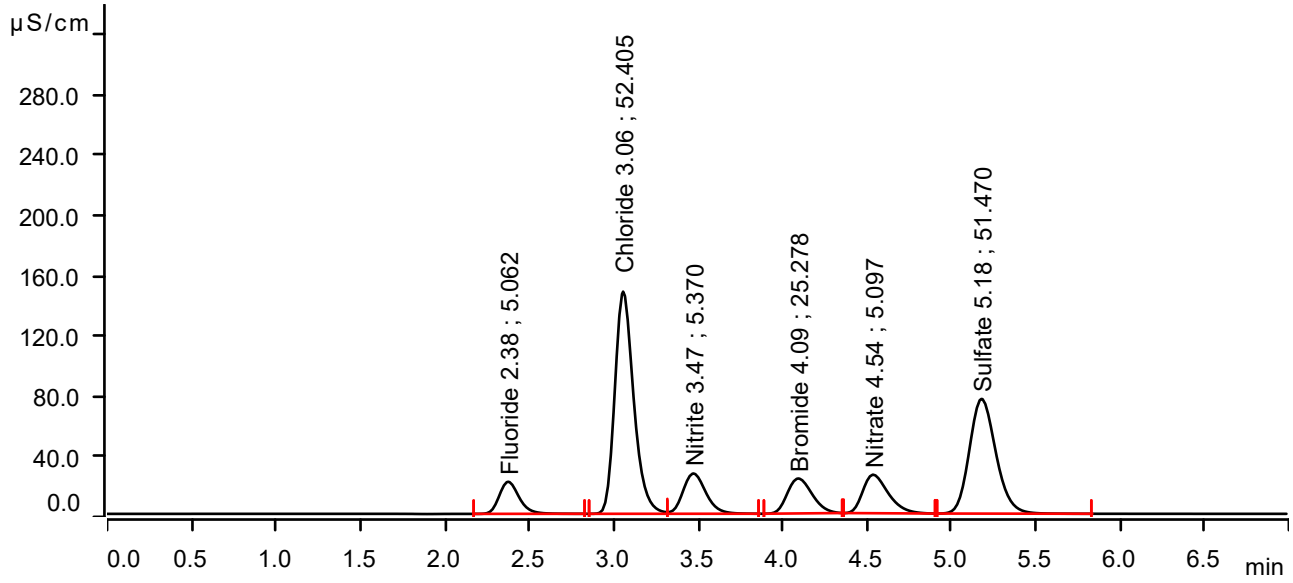
2023-07-18 10:20:48

Injection Time **2023-07-15 00:39:27 UTC-4**

Sample data

Ident	3694834	
Sample type	Check standard 3	
Position	134	
Injections	1	
Injection counter	1	
Volume	20	µL
Dilution	1	
Sample amount	1	
Comments (Info 2)	LCS/CCV	
Analyst (Info 3)	J1W	
Instrument (Info 4)	IC-12	

Anions



Peak number	Component name	Retention time	Area	Height	Concentration
		min	(µS/cm) x min	µS/cm	ppm
1	Fluoride	2.377	2.9127	21.298	5.062
2	Chloride	3.057	19.1636	147.476	52.405
3	Nitrite	3.473	4.1964	26.722	5.370
4	Bromide	4.093	3.9502	23.180	25.278
5	Nitrate	4.537	4.4708	25.570	5.097
6	Sulfate	5.178	13.8587	76.178	51.470

F Concentration on Column	5.062	ppm
Cl Concentration on Column	52.405	ppm
NO2 Concentration on Column	5.370	ppm
Br Concentration on Column	25.278	ppm
NO3 Concentration on Column	5.097	ppm
SO4 Concentration on Column	51.470	ppm

ALS

MagIC Net

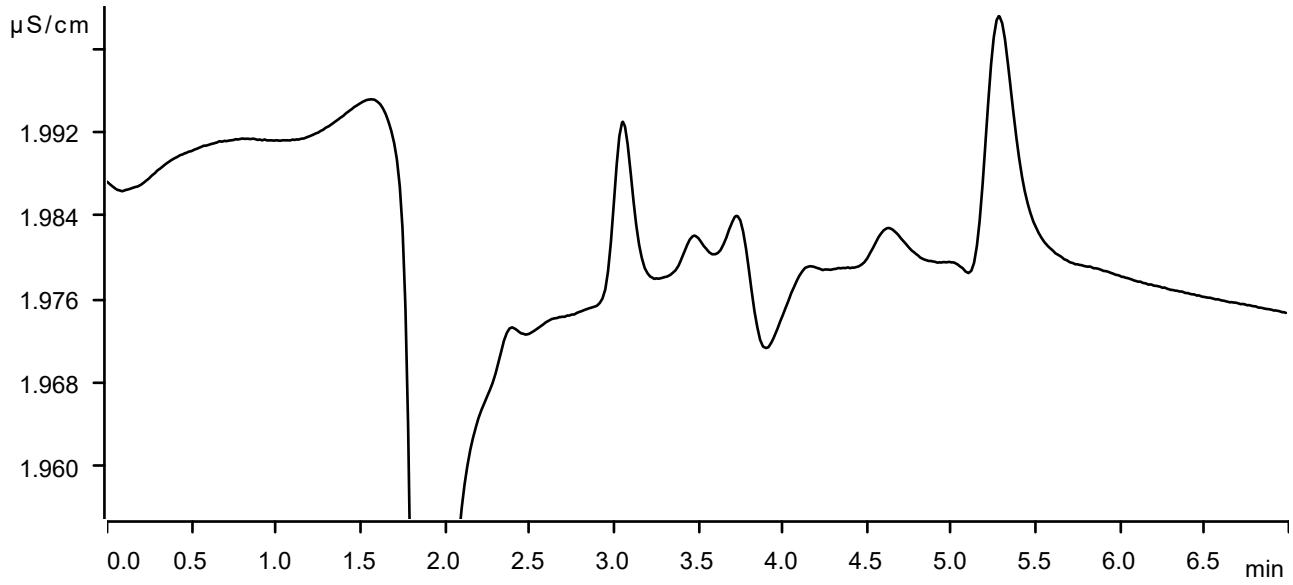
2023-07-18 10:20:49

Injection Time **2023-07-15 00:49:56 UTC-4**

Sample data

Ident	3694835	
Sample type	Sample	
Position	123	
Injections	1	
Injection counter	1	
Volume	20	µL
Dilution	1	
Sample amount	1	
Comments (Info 2)	MB	
Analyst (Info 3)	J1W	
Instrument (Info 4)	IC-12	

Anions



F Concentration on Column	invalid	ppm
Cl Concentration on Column	invalid	ppm
NO2 Concentration on Column	invalid	ppm
Br Concentration on Column	invalid	ppm
NO3 Concentration on Column	invalid	ppm
SO4 Concentration on Column	invalid	ppm

MagIC Net

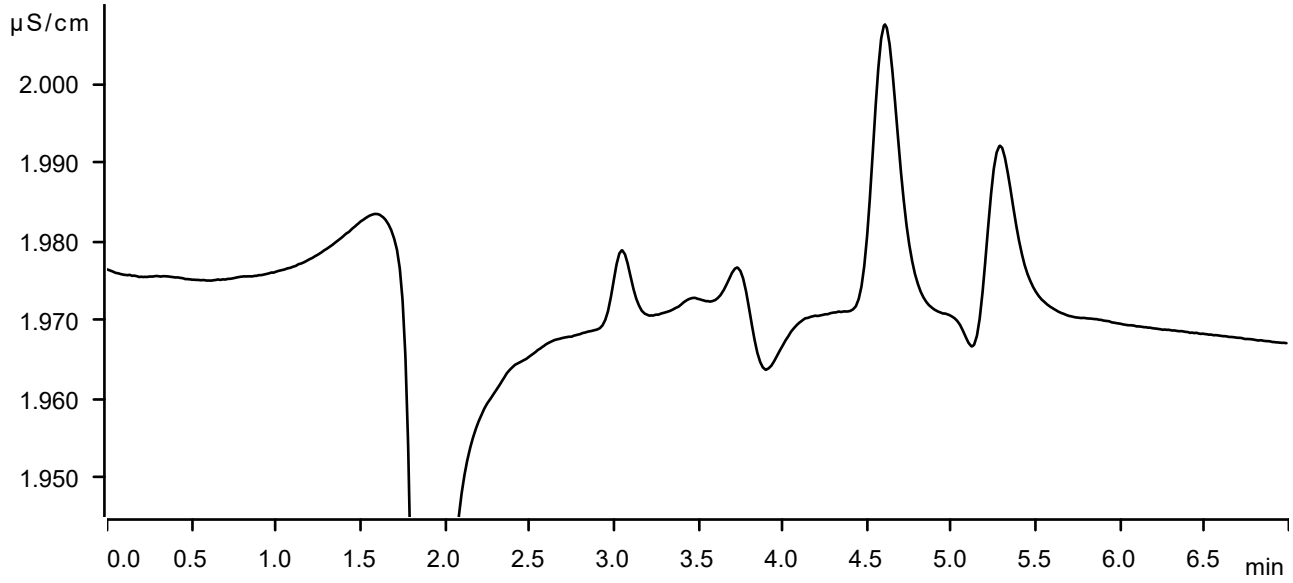
2023-07-18 10:20:50

Injection Time **2023-07-15 01:00:19 UTC-4**

Sample data

Ident	MB	
Sample type	Sample	
Position	119	
Injections	1	
Injection counter	1	
Volume	20	µL
Dilution	1	
Sample amount	1	
Comments (Info 2)	MB SOIL	
Analyst (Info 3)	J1W	
Instrument (Info 4)	IC-12	

Anions



F Concentration on Column	invalid	ppm
Cl Concentration on Column	invalid	ppm
NO2 Concentration on Column	invalid	ppm
Br Concentration on Column	invalid	ppm
NO3 Concentration on Column	invalid	ppm
SO4 Concentration on Column	invalid	ppm

ALS

MagIC Net

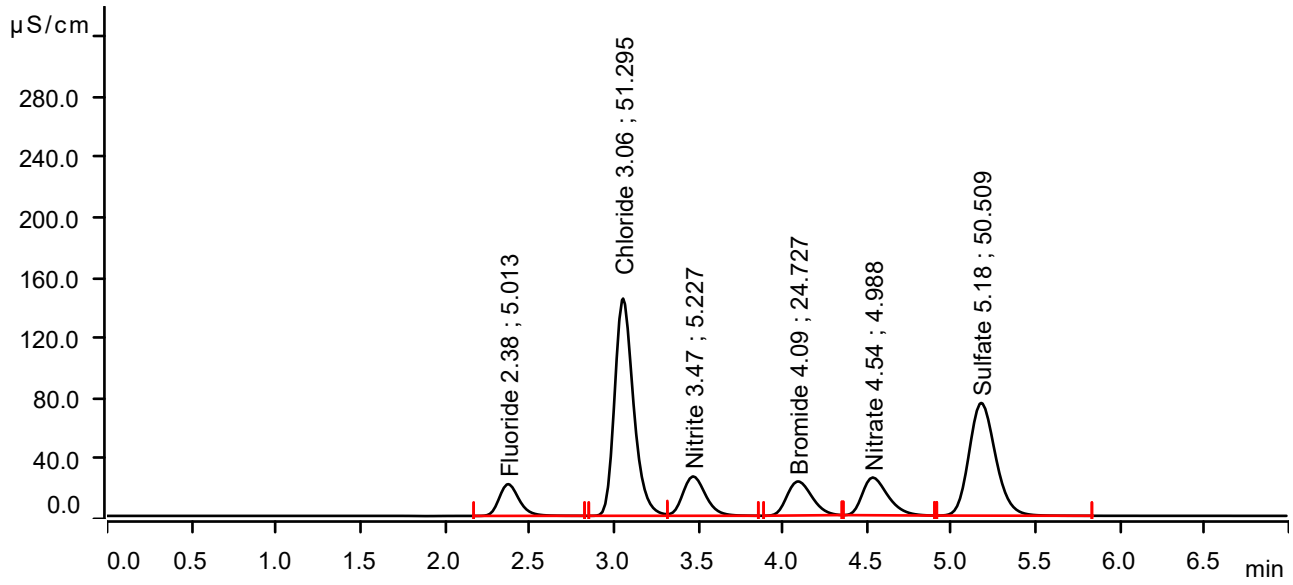
2023-07-18 10:20:51

Injection Time **2023-07-15 01:10:41 UTC-4**

Sample data

Ident	LCS	
Sample type	Check standard 3	
Position	130	
Injections	1	
Injection counter	1	
Volume	20	µL
Dilution	1	
Sample amount	1	
Comments (Info 2)	LCS/CCV	
Analyst (Info 3)	J1W	
Instrument (Info 4)	IC-12	

Anions



Peak number	Component name	Retention time	Area	Height	Concentration
		min	(µS/cm) x min	µS/cm	ppm
1	Fluoride	2.377	2.8851	21.044	5.013
2	Chloride	3.057	18.7569	144.190	51.295
3	Nitrite	3.472	4.0892	26.083	5.227
4	Bromide	4.092	3.8613	22.567	24.727
5	Nitrate	4.535	4.3720	25.028	4.988
6	Sulfate	5.177	13.6007	74.806	50.509

F Concentration on Column	5.013	ppm
Cl Concentration on Column	51.295	ppm
NO2 Concentration on Column	5.227	ppm
Br Concentration on Column	24.727	ppm
NO3 Concentration on Column	4.988	ppm
SO4 Concentration on Column	50.509	ppm

ALS

MagIC Net

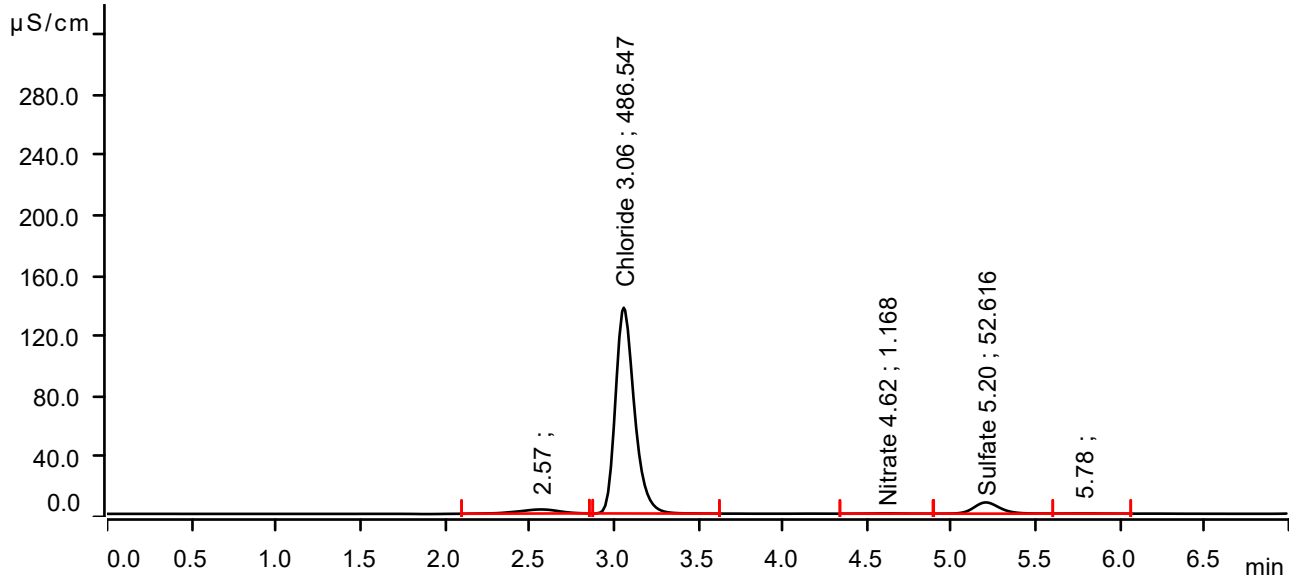
2023-07-18 10:20:52

Injection Time **2023-07-15 01:21:08 UTC-4**

Sample data

Ident	3312031001	
Sample type	Sample	
Position	87	
Injections	1	
Injection counter	1	
Volume	20	µL
Dilution	10	
Sample amount	1	
Comments (Info 2)	FILT	
Analyst (Info 3)	J1W	
Instrument (Info 4)	IC-12	

Anions



Peak number	Component name	Retention time min	Area (µS/cm) x min	Height µS/cm	Concentration ppm
2	Chloride	3.060	17.7900	136.570	486.547
3	Nitrate	4.617	0.0439	0.222	1.168
4	Sulfate	5.203	1.3384	7.475	52.616

F Concentration on Column	invalid	ppm
Cl Concentration on Column	48.655	ppm
NO2 Concentration on Column	invalid	ppm
Br Concentration on Column	invalid	ppm
NO3 Concentration on Column	0.117	ppm
SO4 Concentration on Column	5.262	ppm

ALS

MagIC Net

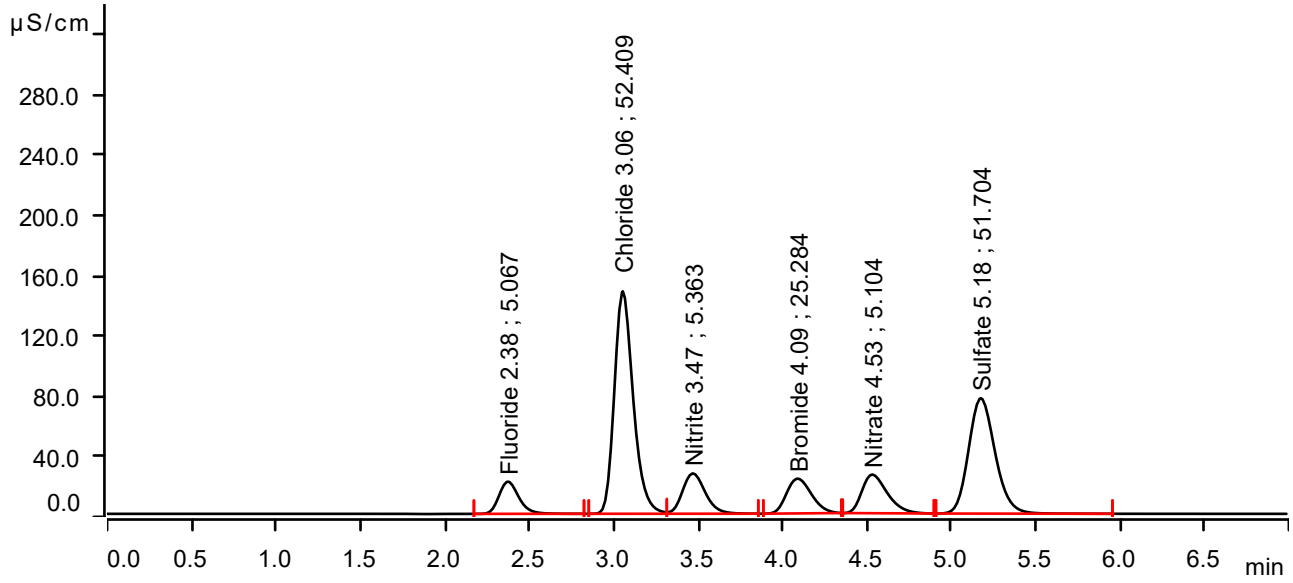
2023-07-18 10:20:53

Injection Time **2023-07-15 01:31:31 UTC-4**

Sample data

Ident	CCV	
Sample type	Check standard 3	
Position	134	
Injections	1	
Injection counter	1	
Volume	20	µL
Dilution	1	
Sample amount	1	
Comments (Info 2)	CCV	
Analyst (Info 3)	J1W	
Instrument (Info 4)	IC-12	

Anions



Peak number	Component name	Retention time	Area	Height	Concentration
		min	(µS/cm) x min	µS/cm	ppm
1	Fluoride	2.375	2.9155	21.370	5.067
2	Chloride	3.055	19.1649	147.662	52.409
3	Nitrite	3.470	4.1910	26.753	5.363
4	Bromide	4.090	3.9511	23.066	25.284
5	Nitrate	4.532	4.4769	25.664	5.104
6	Sulfate	5.175	13.9217	76.577	51.704

F Concentration on Column	5.067	ppm
Cl Concentration on Column	52.409	ppm
NO2 Concentration on Column	5.363	ppm
Br Concentration on Column	25.284	ppm
NO3 Concentration on Column	5.104	ppm
SO4 Concentration on Column	51.704	ppm

ALS

MagIC Net

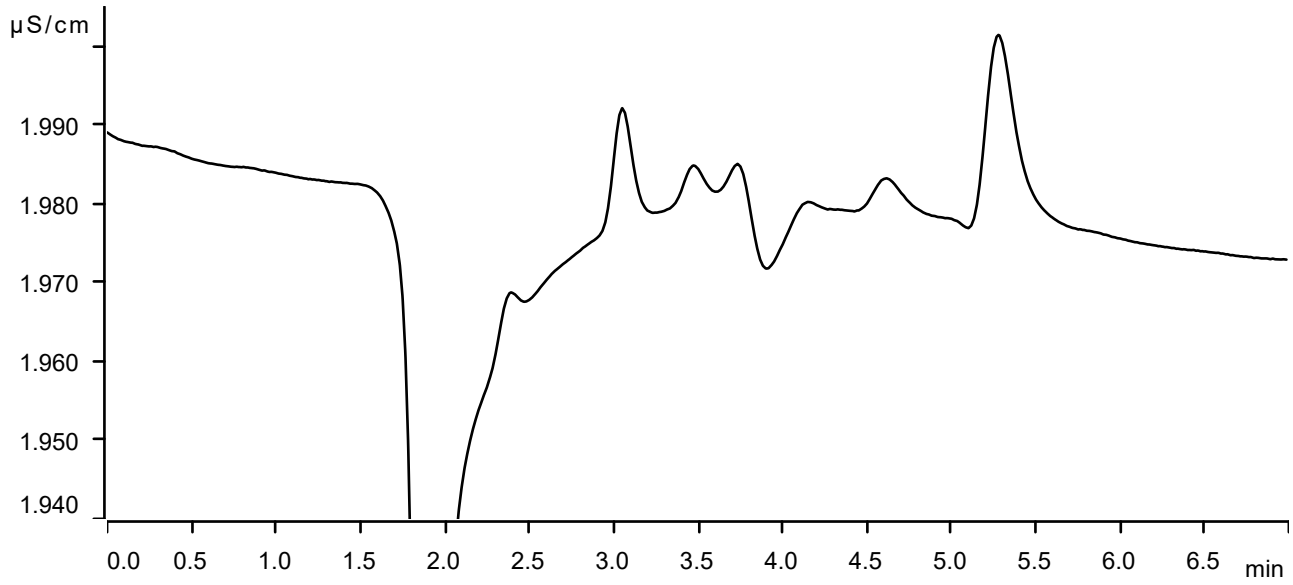
2023-07-18 10:20:54

Injection Time **2023-07-15 01:42:00 UTC-4**

Sample data

Ident	MB	
Sample type	Sample	
Position	123	
Injections	1	
Injection counter	1	
Volume	20	µL
Dilution	1	
Sample amount	1	
Comments (Info 2)	MB	
Analyst (Info 3)	J1W	
Instrument (Info 4)	IC-12	

Anions



F Concentration on Column	invalid	ppm
Cl Concentration on Column	invalid	ppm
NO2 Concentration on Column	invalid	ppm
Br Concentration on Column	invalid	ppm
NO3 Concentration on Column	invalid	ppm
SO4 Concentration on Column	invalid	ppm

ALS Middletown

Analytical Review Checklist

Analytical Seq:	230419IC 12 Cal	**Analytical Batch:**	284463	**Primary Reviewer:**	GMM
Method:	EPA 300.0 Anions-IC			**Primary Date Reviewed:**	07/21/2023
Instrument ID:	IC-12	**Analytical Batch 2:**	284464	**Secondary Reviewer:**	RBM
Analyst:	J1W	**Analytical Batch 3:**	284491	**Secondary Date Reviewed:**	07/24/2023
SOP:	04-ANION				
Revision:	09/16/2022				

Seq		Section Description	Checklist Item	Criteria	Meets Method Criteria	If no, steps taken to address failure
1	A	**Final Reports**	Generated logbook report PDF and saved with raw data?		Y	
2			Generated checklist report PDF and saved with raw data?		Y	
3			Raw data PDF saved to instrument/batch folder?		Y	
4			Generated exception report and saved with raw data?		Y	
5			Associated Initial Calibration included with the raw data? Included previous days ICALs?		Y	
6			Generated Standards/Reagents/Misc.List and saved with raw data?		Y /N RBM 7/24/23	
1	B	**General Information**	Set Up Analyst		J1W	
2			DoD samples included in batch (Y/N)		Y	
3			SDWA samples include in batch (Y/N)		Y	
1	C	**Batch QC Review**	MB meets criteria (Y/N)		Y	
2			LCS meets criteria (Y/N)		Y	
3			Analytical Batch Calibration meets criteria (Y/N)	99.50%	Y	
4			CCVs meet criteria (Y/N)		Y	
1	D	**Batch Sample Review**	Integrated Quality Checked		Y	
2			Sample MS/MSD recoveries meets criteria (Y/N)		Y	
3			Sample MSD/Duplicate RPD meets criteria (Y/N)		Y	
4			Sample Holding Times met (Y/N)		Y	
5			Sample Correlational Relationships meet criteria (Y/N/NA)		NA	
6			Sample Historical Relationships meet criteria (Y/N/NA)		NA	
1	E	**LIMS Transfer**	Data Autoposted (Y/N)		Y	
1	F	**Key Notes**	SDWA samples must be run within holding time			
2			SDWA samples may not be qualified with failures			
3			SDWA samples must be rerun within holding time			
1	G	**Key Notes 2**	SDWA MCL Limits			
2			Fluoride 2.00 mg/L If SDWA samples have results greater than the listed MCL,			
3			Chloride 250 mg/L please see SDWA reporting person immediately. All MCL			
4			Nitrite-N 1.00 mg/L violations must be reported to the PWS in less than 1 hour.			
5			Nitrate-N 10.0 mg/L Please refer to 99-DEP NOT REP with questions.			
6			Sulfate 250 mg/L			

ALS Middletown

Standards/Reagents/Misc. List

Analytical Seq: 230419IC 12 Cal
Method: EPA 300.0 Anions-IC
Instrument ID: IC-12
Analyst: J1W
SOP: 04-ANION
Revision: 09/16/2022

Analytical Batch: 284463
Analytical Batch 2: 284464
Analytical Batch 3: 284491

Primary Reviewer: GMM
Primary Date Reviewed: 07/21/2023
Secondary Reviewer: RBM
Secondary Date Reviewed: 07/24/2023

Seq	Section	Section Description	Standard/Reagent/Miscellaneous Item	Reference ID	Additional Notes
1	H	Standards	Spike Sol	221214009	
2			CCVL	NA	
3			CCVH	NA	
4			LCS	WS230720006	
5			Calibration Points	WS230419022-028	
1	I	Reagents	Instrument Eluent	WR230718006	
2			Working Eluent	DI Water	
3			Glass Lot #	230301002	
1	J	Pipettes	Pipette 1	04-141	
2			Pipette 2	04-143	
3			Pipette 3	04-151	
4			Pipette 4	N/A	
5			Pipette 5	04-163	
1	K	Filters	Syringe Filter Lot#	230406002	
2			Ultrafiltration Membrane	NA	

MagIC Net

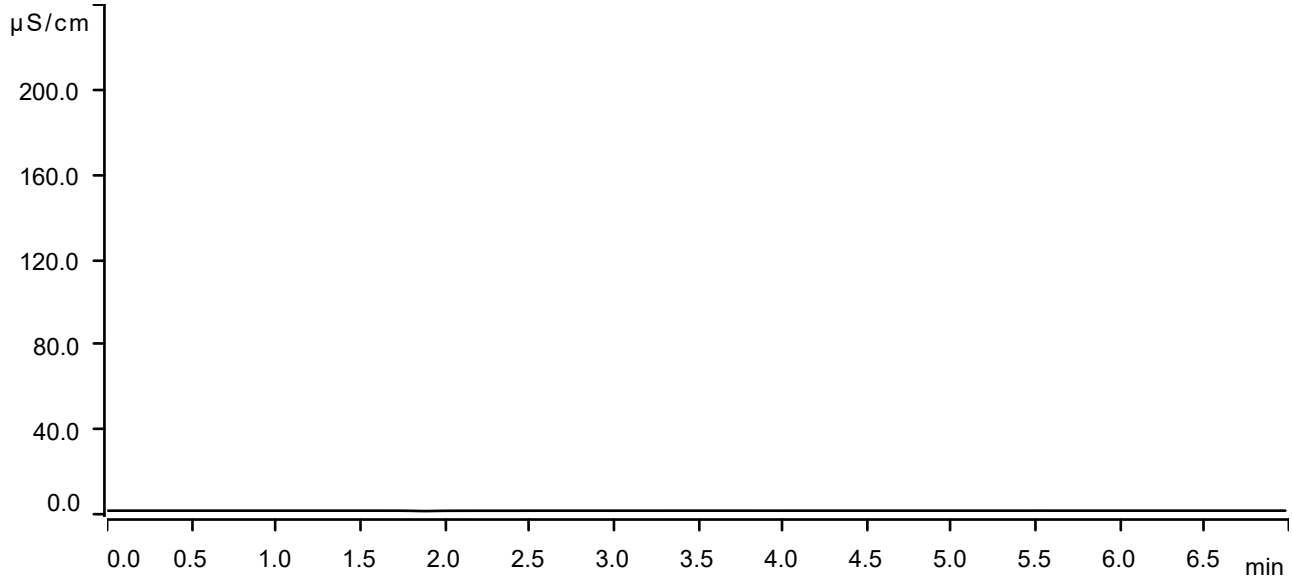
2023-04-24 9:59:06

Injection Time **2023-04-19 15:00:44 UTC-4**

Sample data

Ident	S1	
Sample type	Standard 1	
Position	138	
Injections	1	
Injection counter	1	
Volume	20	µL
Dilution	1	
Sample amount	1	
Comments (Info 2)	0.0	
Analyst (Info 3)	J1W	
Instrument (Info 4)	IC-12	

Anions



F Concentration on Column	invalid	ppm
Cl Concentration on Column	invalid	ppm
NO2 Concentration on Column	invalid	ppm
Br Concentration on Column	invalid	ppm
NO3 Concentration on Column	invalid	ppm
SO4 Concentration on Column	invalid	ppm

ALS

MagIC Net

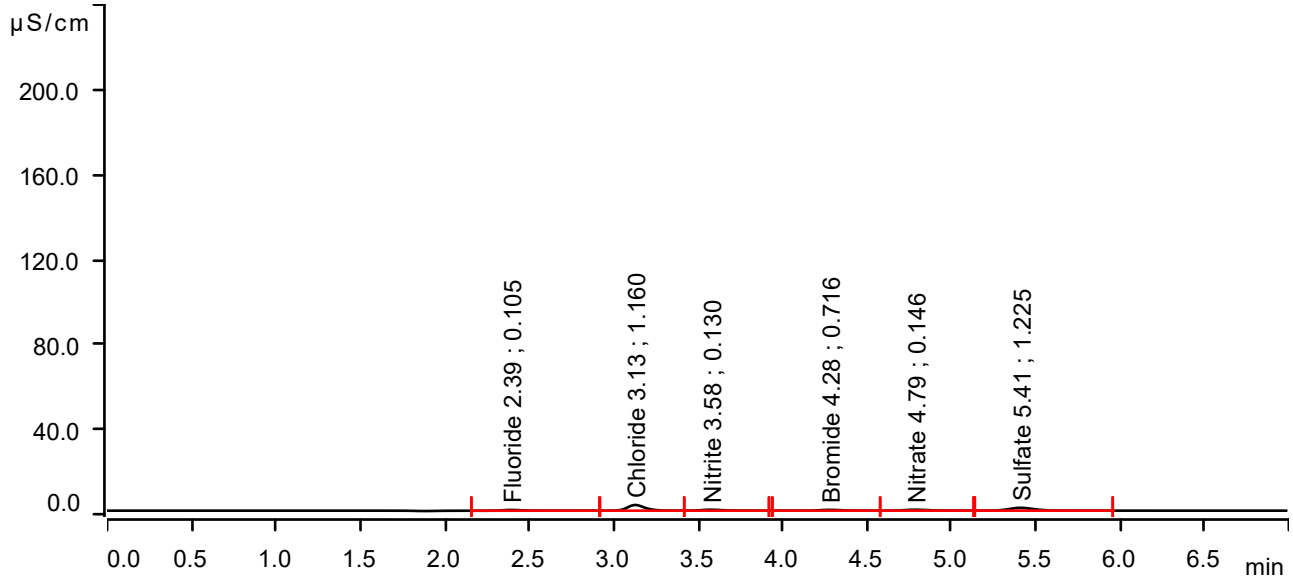
2023-04-24 9:59:06

Injection Time **2023-04-19 15:11:12 UTC-4**

Sample data

Ident	S2	
Sample type	Standard 2	
Position	139	
Injections	1	
Injection counter	1	
Volume	20	µL
Dilution	1	
Sample amount	1	
Comments (Info 2)	0.1	
Analyst (Info 3)	J1W	
Instrument (Info 4)	IC-12	

Anions



Peak number	Component name	Retention time	Area	Height	Concentration
		min	(µS/cm) x min	µS/cm	ppm
1	Fluoride	2.393	0.0498	0.360	0.105
2	Chloride	3.128	0.3280	2.673	1.160
3	Nitrite	3.577	0.0645	0.441	0.130
4	Bromide	4.280	0.0579	0.370	0.716
5	Nitrate	4.787	0.0693	0.415	0.146
6	Sulfate	5.412	0.2342	1.347	1.225

F Concentration on Column	0.105	ppm
Cl Concentration on Column	1.160	ppm
NO2 Concentration on Column	0.130	ppm
Br Concentration on Column	0.716	ppm
NO3 Concentration on Column	0.146	ppm
SO4 Concentration on Column	1.225	ppm

ALS

MagIC Net

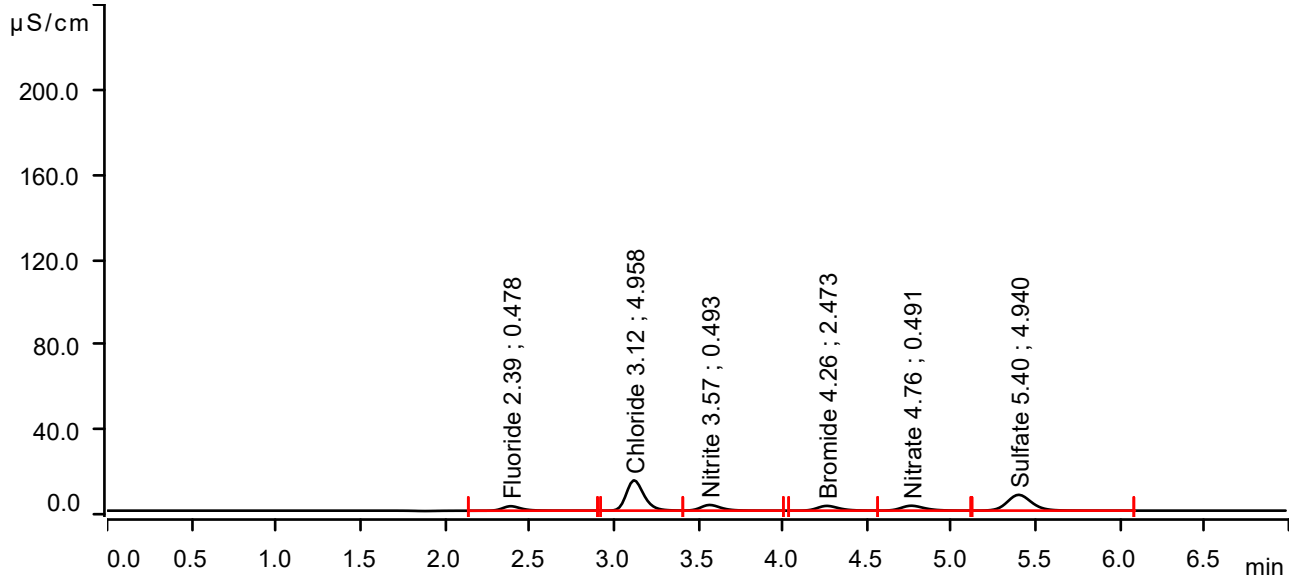
2023-04-24 9:59:07

Injection Time **2023-04-19 15:21:41 UTC-4**

Sample data

Ident	S3	
Sample type	Standard 3	
Position	140	
Injections	1	
Injection counter	1	
Volume	20	µL
Dilution	1	
Sample amount	1	
Comments (Info 2)	0.5	
Analyst (Info 3)	J1W	
Instrument (Info 4)	IC-12	

Anions



Peak number	Component name	Retention time	Area	Height	Concentration
		min	(µS/cm) x min	µS/cm	ppm
1	Fluoride	2.392	0.2728	2.107	0.478
2	Chloride	3.122	1.7396	14.248	4.958
3	Nitrite	3.568	0.3760	2.675	0.493
4	Bromide	4.263	0.3320	2.227	2.473
5	Nitrate	4.763	0.3704	2.299	0.491
6	Sulfate	5.398	1.2506	7.423	4.940

F Concentration on Column	0.478	ppm
Cl Concentration on Column	4.958	ppm
NO2 Concentration on Column	0.493	ppm
Br Concentration on Column	2.473	ppm
NO3 Concentration on Column	0.491	ppm
SO4 Concentration on Column	4.940	ppm

MagIC Net

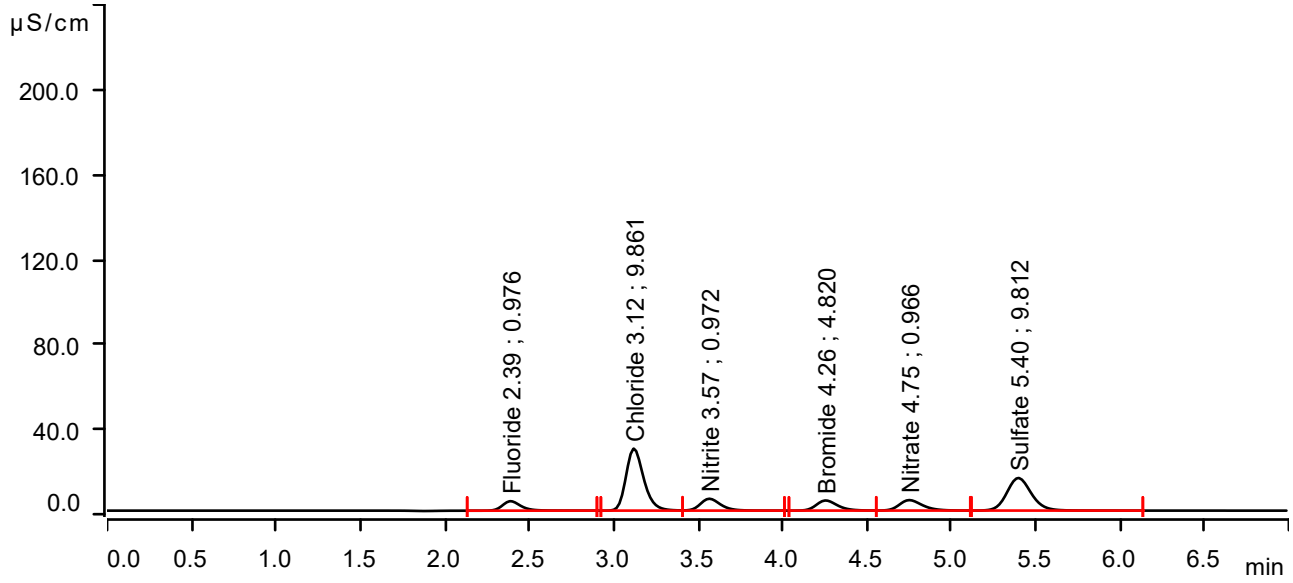
2023-04-24 9:59:08

Injection Time **2023-04-19 15:32:09 UTC-4**

Sample data

Ident	S4	
Sample type	Standard 4	
Position	141	
Injections	1	
Injection counter	1	
Volume	20	µL
Dilution	1	
Sample amount	1	
Comments (Info 2)	1.0	
Analyst (Info 3)	J1W	
Instrument (Info 4)	IC-12	

Anions



Peak number	Component name	Retention time	Area	Height	Concentration
		min	(µS/cm) x min	µS/cm	ppm
1	Fluoride	2.390	0.5684	4.454	0.976
2	Chloride	3.120	3.5606	29.156	9.861
3	Nitrite	3.567	0.7827	5.579	0.972
4	Bromide	4.255	0.6991	4.756	4.820
5	Nitrate	4.750	0.7871	4.924	0.966
6	Sulfate	5.397	2.5811	15.310	9.812

F Concentration on Column	0.976	ppm
Cl Concentration on Column	9.861	ppm
NO2 Concentration on Column	0.972	ppm
Br Concentration on Column	4.820	ppm
NO3 Concentration on Column	0.966	ppm
SO4 Concentration on Column	9.812	ppm

ALS

MagIC Net

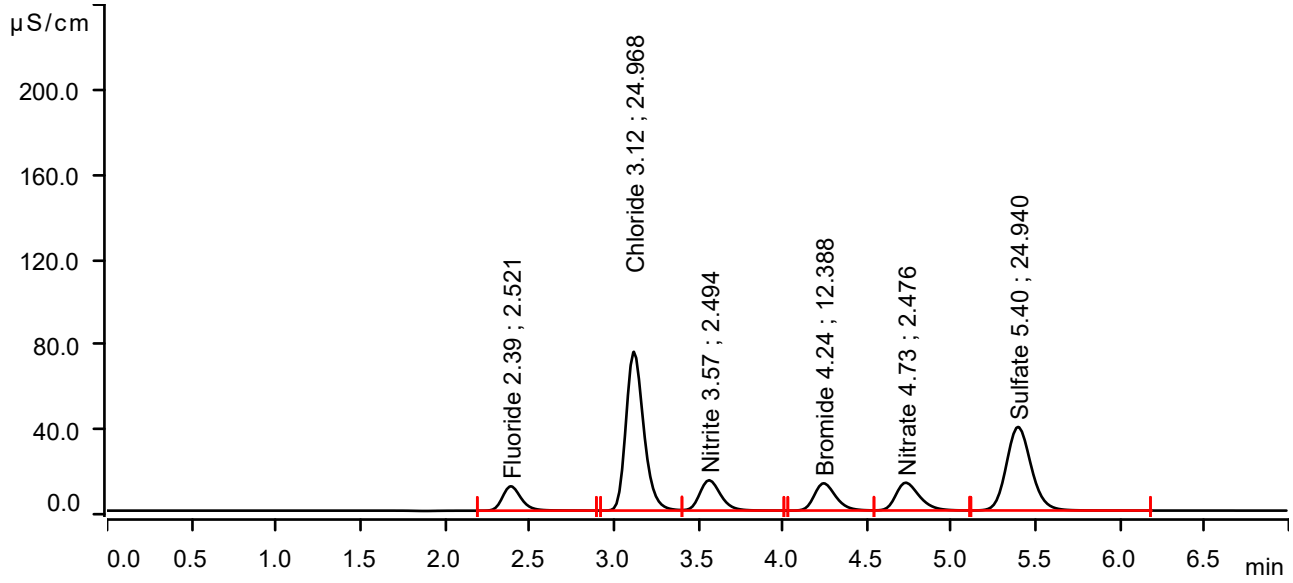
2023-04-24 9:59:10

Injection Time **2023-04-19 15:42:36 UTC-4**

Sample data

Ident	S5	
Sample type	Standard 5	
Position	142	
Injections	1	
Injection counter	1	
Volume	20	µL
Dilution	1	
Sample amount	1	
Comments (Info 2)	2.5	
Analyst (Info 3)	J1W	
Instrument (Info 4)	IC-12	

Anions



Peak number	Component name	Retention time	Area	Height	Concentration
		min	(µS/cm) x min	µS/cm	ppm
1	Fluoride	2.392	1.4721	11.460	2.521
2	Chloride	3.120	9.1638	74.725	24.968
3	Nitrite	3.565	2.0545	14.257	2.494
4	Bromide	4.243	1.8912	12.810	12.388
5	Nitrate	4.730	2.1209	13.068	2.476
6	Sulfate	5.395	6.6971	39.308	24.940

F Concentration on Column	2.521	ppm
Cl Concentration on Column	24.968	ppm
NO2 Concentration on Column	2.494	ppm
Br Concentration on Column	12.388	ppm
NO3 Concentration on Column	2.476	ppm
SO4 Concentration on Column	24.940	ppm

MagIC Net

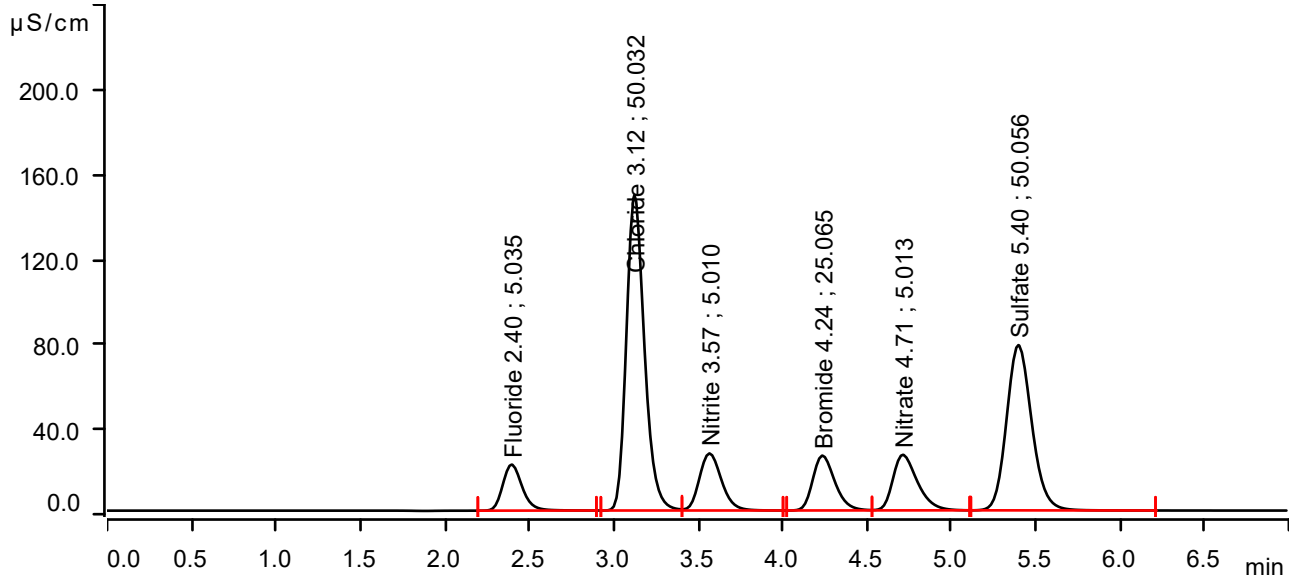
2023-04-24 9:59:11

Injection Time **2023-04-19 15:53:04 UTC-4**

Sample data

Ident	S6
Sample type	Standard 6
Position	143
Injections	1
Injection counter	1
Volume	20 µL
Dilution	1
Sample amount	1
Comments (Info 2)	5.0
Analyst (Info 3)	J1W
Instrument (Info 4)	IC-12

Anions



Peak number	Component name	Retention time min	Area (µS/cm) x min	Height µS/cm	Concentration ppm
1	Fluoride	2.397	2.8974	21.653	5.035
2	Chloride	3.123	18.4341	148.435	50.032
3	Nitrite	3.568	4.0797	26.837	5.010
4	Bromide	4.237	3.9158	25.795	25.065
5	Nitrate	4.713	4.3947	26.141	5.013
6	Sulfate	5.397	13.4791	77.758	50.056

F Concentration on Column	5.035	ppm
Cl Concentration on Column	50.032	ppm
NO2 Concentration on Column	5.010	ppm
Br Concentration on Column	25.065	ppm
NO3 Concentration on Column	5.013	ppm
SO4 Concentration on Column	50.056	ppm

ALS

MagIC Net

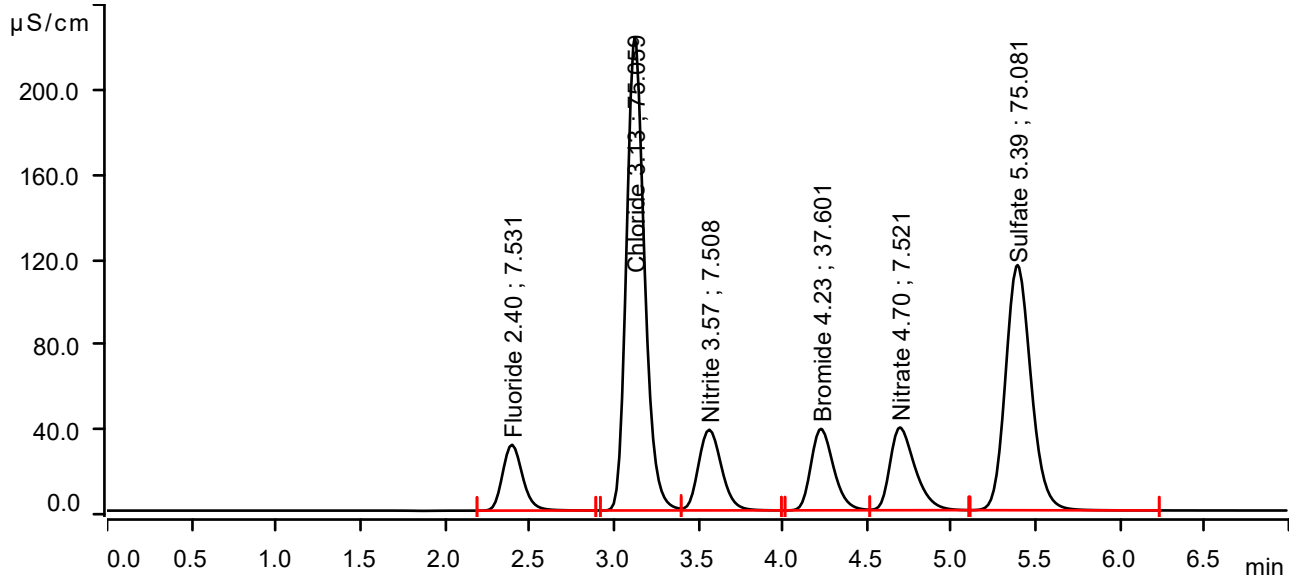
2023-04-24 9:59:12

Injection Time **2023-04-19 16:03:30 UTC-4**

Sample data

Ident	S7
Sample type	Standard 7
Position	144
Injections	1
Injection counter	1
Volume	20 µL
Dilution	1
Sample amount	1
Comments (Info 2)	7.5
Analyst (Info 3)	J1W
Instrument (Info 4)	IC-12

Anions



Peak number	Component name	Retention time	Area	Height	Concentration
		min	(µS/cm) x min	µS/cm	ppm
1	Fluoride	2.398	4.2585	30.947	7.531
2	Chloride	3.125	27.6589	222.593	75.059
3	Nitrite	3.567	5.9953	37.948	7.508
4	Bromide	4.228	5.9526	38.335	37.601
5	Nitrate	4.695	6.6855	38.916	7.521
6	Sulfate	5.392	20.1718	115.342	75.081

F Concentration on Column	7.531	ppm
Cl Concentration on Column	75.059	ppm
NO2 Concentration on Column	7.508	ppm
Br Concentration on Column	37.601	ppm
NO3 Concentration on Column	7.521	ppm
SO4 Concentration on Column	75.081	ppm

MagIC Net

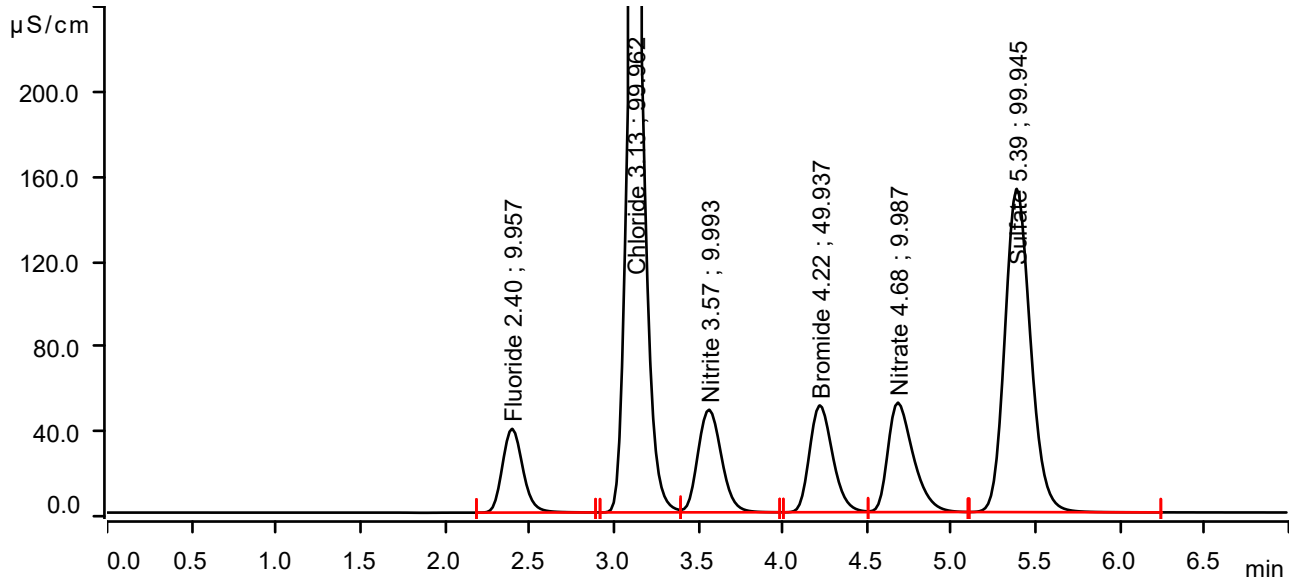
2023-04-24 9:59:13

Injection Time **2023-04-19 16:13:56 UTC-4**

Sample data

Ident	S8
Sample type	Standard 8
Position	145
Injections	1
Injection counter	1
Volume	20 µL
Dilution	1
Sample amount	1
Comments (Info 2)	10.0
Analyst (Info 3)	J1W
Instrument (Info 4)	IC-12

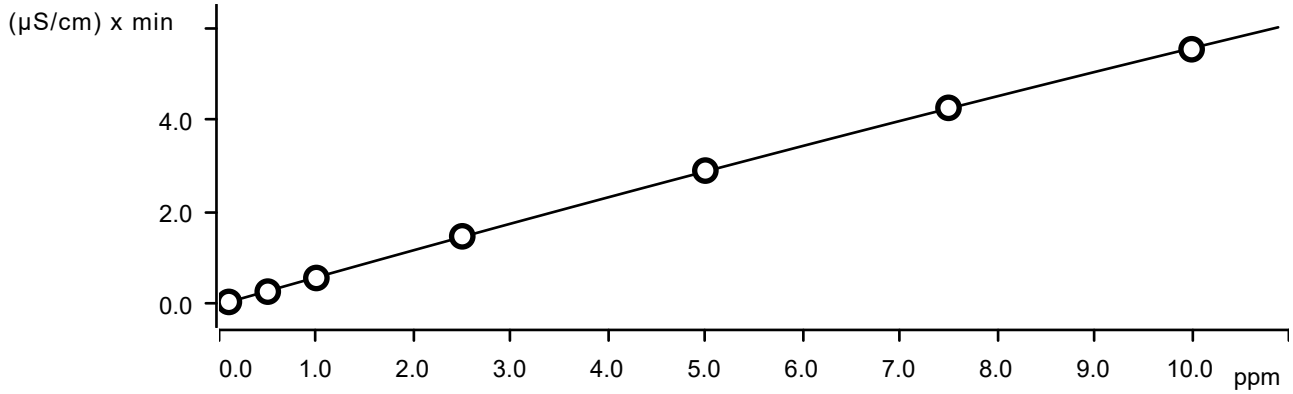
Anions



Peak number	Component name	Retention time	Area	Height	Concentration
		min	(µS/cm) x min	µS/cm	ppm
1	Fluoride	2.398	5.5289	39.378	9.957
2	Chloride	3.128	36.8067	296.445	99.962
3	Nitrite	3.565	7.8090	48.264	9.993
4	Bromide	4.222	7.9902	50.241	49.937
5	Nitrate	4.683	8.9773	51.492	9.987
6	Sulfate	5.387	26.7578	152.075	99.945

F Concentration on Column	9.957	ppm
Cl Concentration on Column	99.962	ppm
NO2 Concentration on Column	9.993	ppm
Br Concentration on Column	49.937	ppm
NO3 Concentration on Column	9.987	ppm
SO4 Concentration on Column	99.945	ppm

Fluoride (Anions)



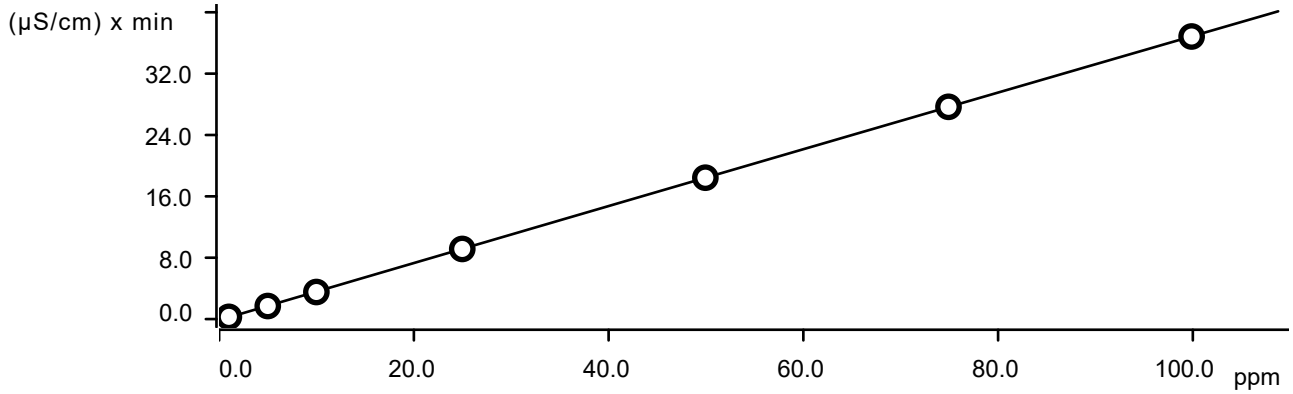
Function: . . . . . *A = - 0.0130687 + 0.0300034× Q - 1.09122E-5× Q²*

Relative standard deviation . . . . . *0.950858 %*

Correlation coefficient *0.999969*

Sample type	Index	Conc.	Volume	Dilution	Sample amount	Area	Ident	Date
Standard 1	1	0.000	20.0	1.0	1.0	n. d.	S1	2023-04-19 15:00:44 UTC-4
Standard 2	1	0.100	20.0	1.0	1.0	0.050	S2	2023-04-19 15:11:12 UTC-4
Standard 3	1	0.500	20.0	1.0	1.0	0.273	S3	2023-04-19 15:21:41 UTC-4
Standard 4	1	1.000	20.0	1.0	1.0	0.568	S4	2023-04-19 15:32:09 UTC-4
Standard 5	1	2.500	20.0	1.0	1.0	1.472	S5	2023-04-19 15:42:36 UTC-4
Standard 6	1	5.000	20.0	1.0	1.0	2.897	S6	2023-04-19 15:53:04 UTC-4
Standard 7	1	7.500	20.0	1.0	1.0	4.259	S7	2023-04-19 16:03:30 UTC-4
Standard 8	1	10.000	20.0	1.0	1.0	5.529	S8	2023-04-19 16:13:56 UTC-4

Chloride (Anions)



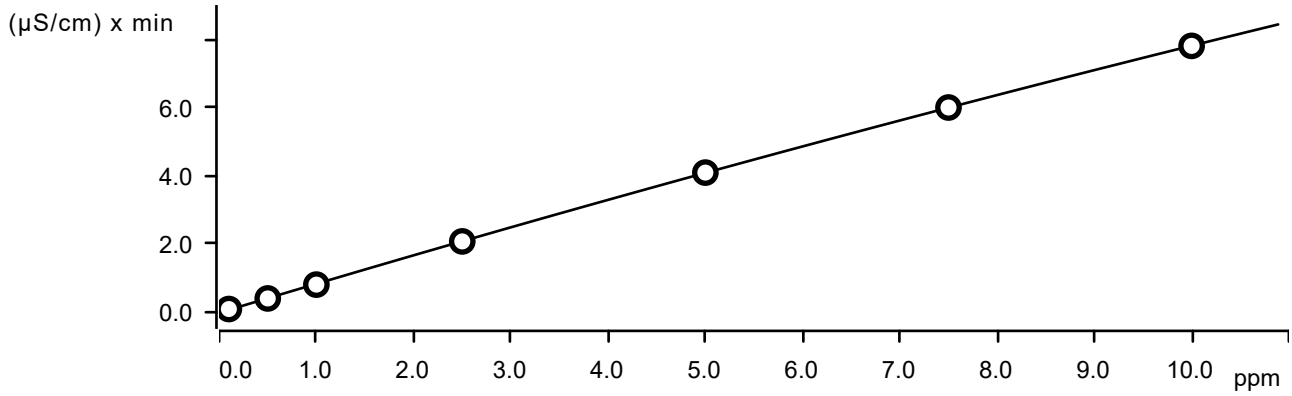
Function: . . . . . *A = - 0.103050 + 0.0185890× Q - 6.35953E-8× Q²*

Relative standard deviation . . . . . *0.307303 %*

Correlation coefficient *0.999997*

Sample type	Index	Conc.	Volume	Dilution	Sample amount	Area	Ident	Date
Standard 1	1	0.000	20.0	1.0	1.0	n. d.	S1	2023-04-19 15:00:44 UTC-4
Standard 2	1	1.000	20.0	1.0	1.0	0.328	S2	2023-04-19 15:11:12 UTC-4
Standard 3	1	5.000	20.0	1.0	1.0	1.740	S3	2023-04-19 15:21:41 UTC-4
Standard 4	1	10.000	20.0	1.0	1.0	3.561	S4	2023-04-19 15:32:09 UTC-4
Standard 5	1	25.000	20.0	1.0	1.0	9.164	S5	2023-04-19 15:42:36 UTC-4
Standard 6	1	50.000	20.0	1.0	1.0	18.434	S6	2023-04-19 15:53:04 UTC-4
Standard 7	1	75.000	20.0	1.0	1.0	27.659	S7	2023-04-19 16:03:30 UTC-4
Standard 8	1	100.000	20.0	1.0	1.0	36.807	S8	2023-04-19 16:13:56 UTC-4

Nitrite (Anions)



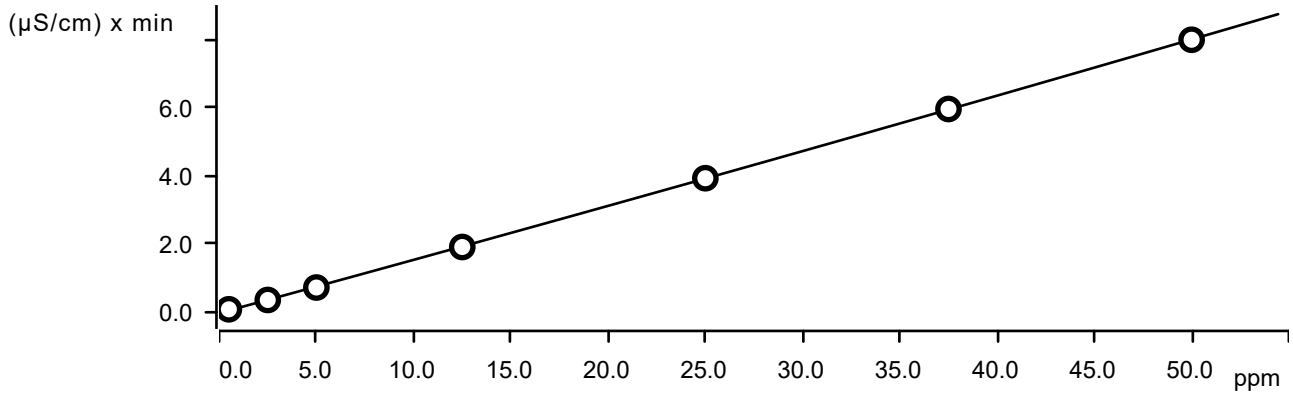
Function: . . . . . *A = - 0.0470657 + 0.0430686× Q - 1.88248E-5× Q²*

Relative standard deviation . . . . . *0.620797 %*

Correlation coefficient *0.999987*

Sample type	Index	Conc.	Volume	Dilution	Sample amount	Area	Ident	Date
Standard 1	1	0.000	20.0	1.0	1.0	n. d.	S1	2023-04-19 15:00:44 UTC-4
Standard 2	1	0.100	20.0	1.0	1.0	0.065	S2	2023-04-19 15:11:12 UTC-4
Standard 3	1	0.500	20.0	1.0	1.0	0.376	S3	2023-04-19 15:21:41 UTC-4
Standard 4	1	1.000	20.0	1.0	1.0	0.783	S4	2023-04-19 15:32:09 UTC-4
Standard 5	1	2.500	20.0	1.0	1.0	2.054	S5	2023-04-19 15:42:36 UTC-4
Standard 6	1	5.000	20.0	1.0	1.0	4.080	S6	2023-04-19 15:53:04 UTC-4
Standard 7	1	7.500	20.0	1.0	1.0	5.995	S7	2023-04-19 16:03:30 UTC-4
Standard 8	1	10.000	20.0	1.0	1.0	7.809	S8	2023-04-19 16:13:56 UTC-4

Bromide (Anions)



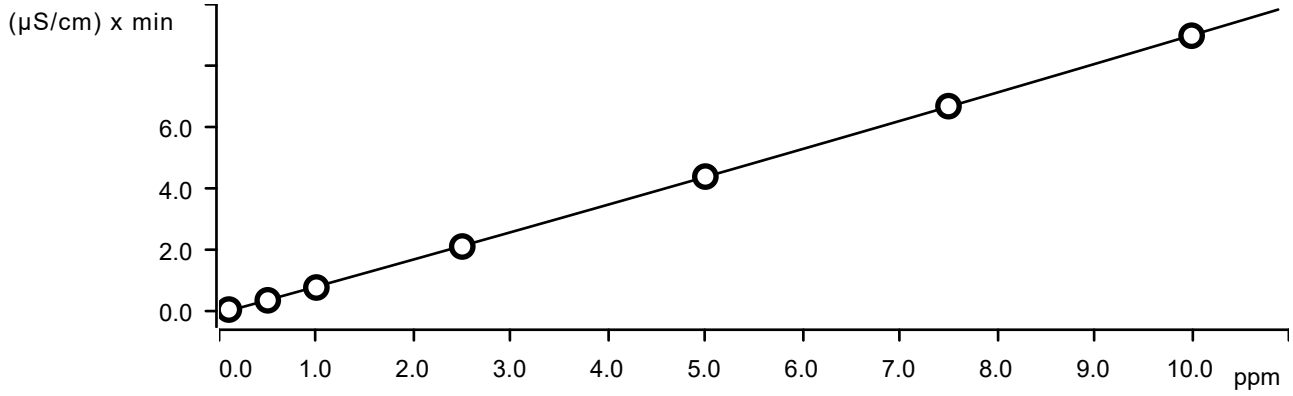
Function: . . . . . $A = - 0.0535520 + 7.78141E\text{-}3 \times Q + 2.72856E\text{-}7 \times Q^2$

Relative standard deviation . . . . . *0.880472 %*

Correlation coefficient *0.999976*

Sample type	Index	Conc.	Volume	Dilution	Sample amount	Area	Ident	Date
Standard 1	1	0.000	20.0	1.0	1.0	n. d.	S1	2023-04-19 15:00:44 UTC-4
Standard 2	1	0.500	20.0	1.0	1.0	0.058	S2	2023-04-19 15:11:12 UTC-4
Standard 3	1	2.500	20.0	1.0	1.0	0.332	S3	2023-04-19 15:21:41 UTC-4
Standard 4	1	5.000	20.0	1.0	1.0	0.699	S4	2023-04-19 15:32:09 UTC-4
Standard 5	1	12.500	20.0	1.0	1.0	1.891	S5	2023-04-19 15:42:36 UTC-4
Standard 6	1	25.000	20.0	1.0	1.0	3.916	S6	2023-04-19 15:53:04 UTC-4
Standard 7	1	37.500	20.0	1.0	1.0	5.953	S7	2023-04-19 16:03:30 UTC-4
Standard 8	1	50.000	20.0	1.0	1.0	7.990	S8	2023-04-19 16:13:56 UTC-4

Nitrate (Anions)



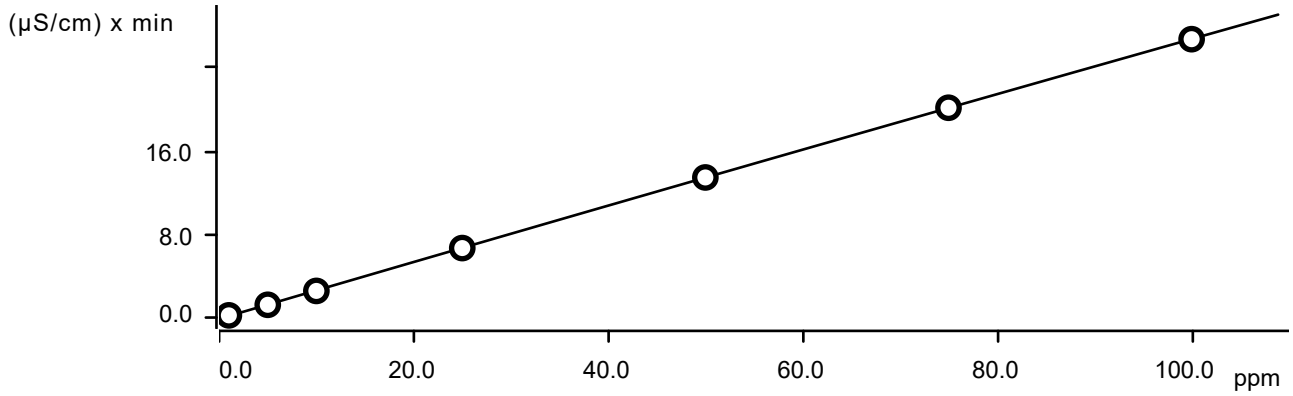
Function: . . . . . $A = - 0.0579698 + 0.0435829 \times Q + 8.27799E\text{-}6 \times Q^2$

Relative standard deviation . . . . . *0.907779 %*

Correlation coefficient *0.999974*

Sample type	Index	Conc.	Volume	Dilution	Sample amount	Area	Ident	Date
Standard 1	1	0.000	20.0	1.0	1.0	n. d.	S1	2023-04-19 15:00:44 UTC-4
Standard 2	1	0.100	20.0	1.0	1.0	0.069	S2	2023-04-19 15:11:12 UTC-4
Standard 3	1	0.500	20.0	1.0	1.0	0.370	S3	2023-04-19 15:21:41 UTC-4
Standard 4	1	1.000	20.0	1.0	1.0	0.787	S4	2023-04-19 15:32:09 UTC-4
Standard 5	1	2.500	20.0	1.0	1.0	2.121	S5	2023-04-19 15:42:36 UTC-4
Standard 6	1	5.000	20.0	1.0	1.0	4.395	S6	2023-04-19 15:53:04 UTC-4
Standard 7	1	7.500	20.0	1.0	1.0	6.685	S7	2023-04-19 16:03:30 UTC-4
Standard 8	1	10.000	20.0	1.0	1.0	8.977	S8	2023-04-19 16:13:56 UTC-4

Sulfate (Anions)



Function: . . . . . *A = - 0.101152 + 0.0136935× Q - 1.28395E-7× Q²*

Relative standard deviation . . . . . *0.435747 %*

Correlation coefficient *0.999994*

Sample type	Index	Conc.	Volume	Dilution	Sample amount	Area	Ident	Date
Standard 1	1	0.000	20.0	1.0	1.0	n. d.	S1	2023-04-19 15:00:44 UTC-4
Standard 2	1	1.000	20.0	1.0	1.0	0.234	S2	2023-04-19 15:11:12 UTC-4
Standard 3	1	5.000	20.0	1.0	1.0	1.251	S3	2023-04-19 15:21:41 UTC-4
Standard 4	1	10.000	20.0	1.0	1.0	2.581	S4	2023-04-19 15:32:09 UTC-4
Standard 5	1	25.000	20.0	1.0	1.0	6.697	S5	2023-04-19 15:42:36 UTC-4
Standard 6	1	50.000	20.0	1.0	1.0	13.479	S6	2023-04-19 15:53:04 UTC-4
Standard 7	1	75.000	20.0	1.0	1.0	20.172	S7	2023-04-19 16:03:30 UTC-4
Standard 8	1	100.000	20.0	1.0	1.0	26.758	S8	2023-04-19 16:13:56 UTC-4

MagIC Net

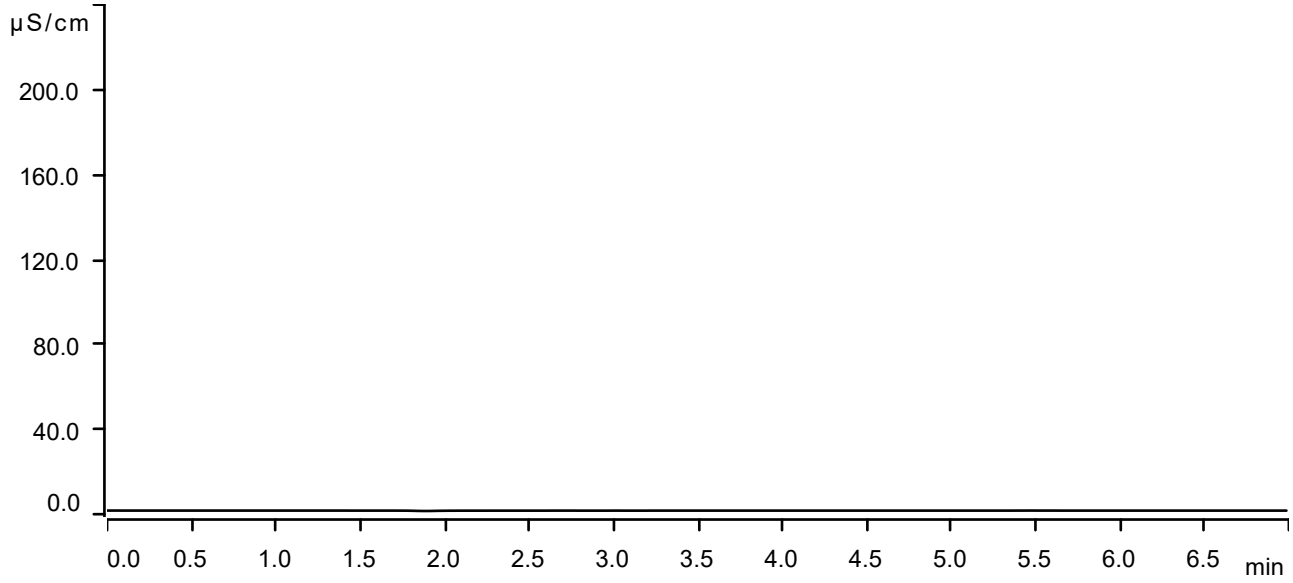
2023-04-24 9:59:14

Injection Time **2023-04-19 16:24:22 UTC-4**

Sample data

Ident	MB	
Sample type	Sample	
Position	121	
Injections	1	
Injection counter	1	
Volume	20	µL
Dilution	1	
Sample amount	1	
Comments (Info 2)		
Analyst (Info 3)	J1W	
Instrument (Info 4)	IC-12	

Anions



F Concentration on Column	invalid	ppm
Cl Concentration on Column	invalid	ppm
NO2 Concentration on Column	invalid	ppm
Br Concentration on Column	invalid	ppm
NO3 Concentration on Column	invalid	ppm
SO4 Concentration on Column	invalid	ppm

MagIC Net

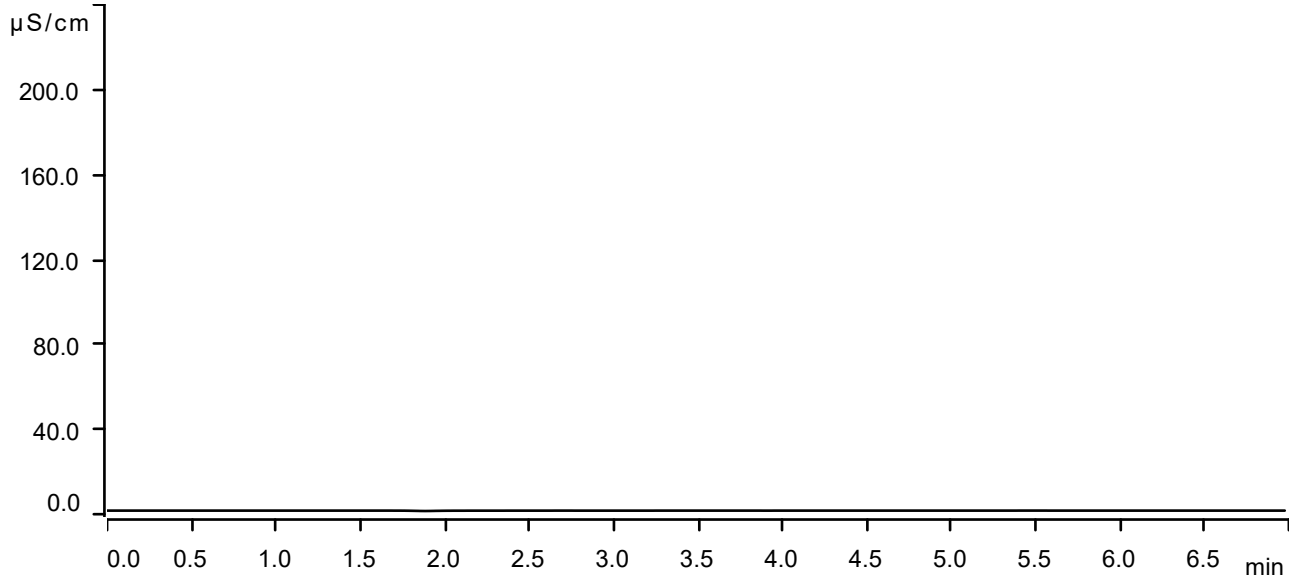
2023-04-24 9:59:15

Injection Time **2023-04-19 16:34:44 UTC-4**

Sample data

Ident	MB	
Sample type	Sample	
Position	121	
Injections	1	
Injection counter	1	
Volume	20	µL
Dilution	1	
Sample amount	1	
Comments (Info 2)		
Analyst (Info 3)	J1W	
Instrument (Info 4)	IC-12	

Anions



F Concentration on Column	invalid	ppm
Cl Concentration on Column	invalid	ppm
NO2 Concentration on Column	invalid	ppm
Br Concentration on Column	invalid	ppm
NO3 Concentration on Column	invalid	ppm
SO4 Concentration on Column	invalid	ppm

MagIC Net

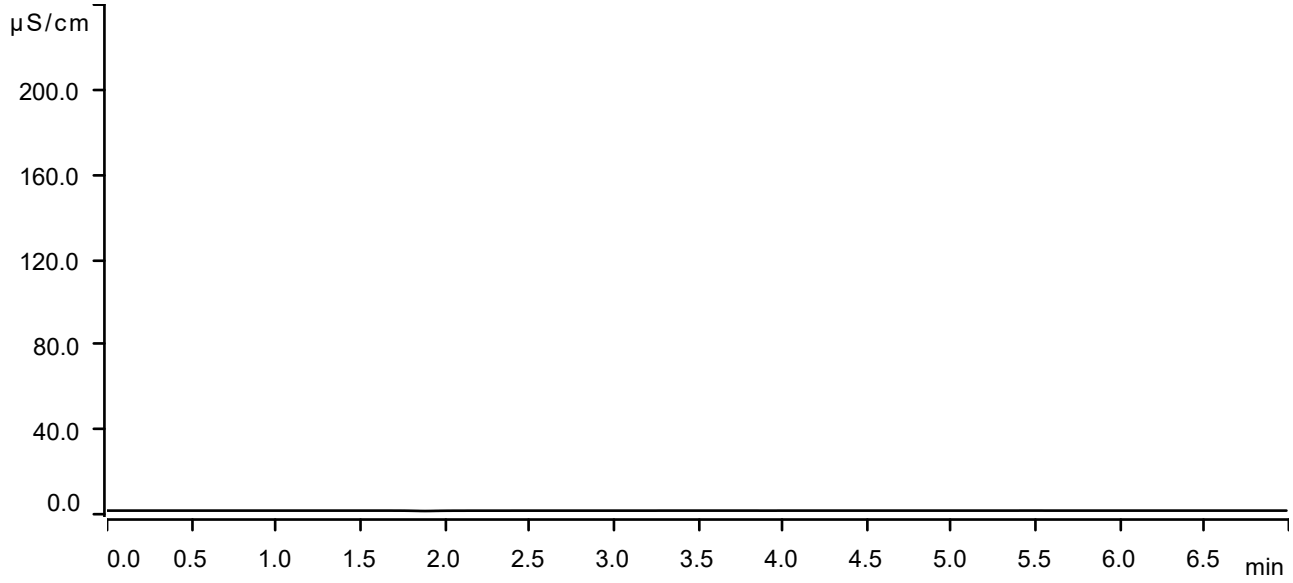
2023-04-24 9:59:15

Injection Time **2023-04-19 16:45:06 UTC-4**

Sample data

Ident	MB	
Sample type	Sample	
Position	122	
Injections	1	
Injection counter	1	
Volume	20	µL
Dilution	1	
Sample amount	1	
Comments (Info 2)	MB	
Analyst (Info 3)	J1W	
Instrument (Info 4)	IC-12	

Anions



F Concentration on Column	invalid	ppm
Cl Concentration on Column	invalid	ppm
NO2 Concentration on Column	invalid	ppm
Br Concentration on Column	invalid	ppm
NO3 Concentration on Column	invalid	ppm
SO4 Concentration on Column	invalid	ppm

ALS

MagIC Net

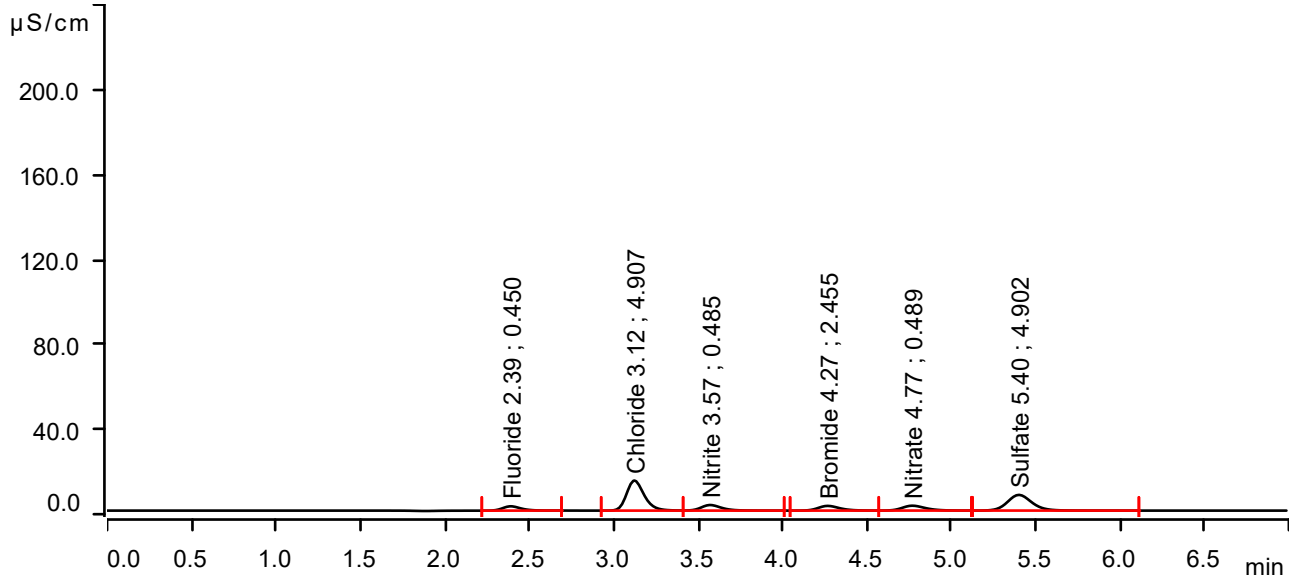
2023-04-24 9:59:16

Injection Time **2023-04-19 16:55:29 UTC-4**

Sample data

Ident	CCVL
Sample type	Check standard 1
Position	125
Injections	1
Injection counter	1
Volume	20 µL
Dilution	1
Sample amount	1
Comments (Info 2)	CCVL
Analyst (Info 3)	J1W
Instrument (Info 4)	IC-12

Anions



Peak number	Component name	Retention time	Area	Height	Concentration
		min	(µS/cm) x min	µS/cm	ppm
1	Fluoride	2.392	0.2559	2.033	0.450
2	Chloride	3.123	1.7206	14.141	4.907
3	Nitrite	3.572	0.3693	2.632	0.485
4	Bromide	4.268	0.3292	2.215	2.455
5	Nitrate	4.768	0.3693	2.301	0.489
6	Sulfate	5.400	1.2401	7.381	4.902

F Concentration on Column	0.450	ppm
Cl Concentration on Column	4.907	ppm
NO2 Concentration on Column	0.485	ppm
Br Concentration on Column	2.455	ppm
NO3 Concentration on Column	0.489	ppm
SO4 Concentration on Column	4.902	ppm

MagIC Net

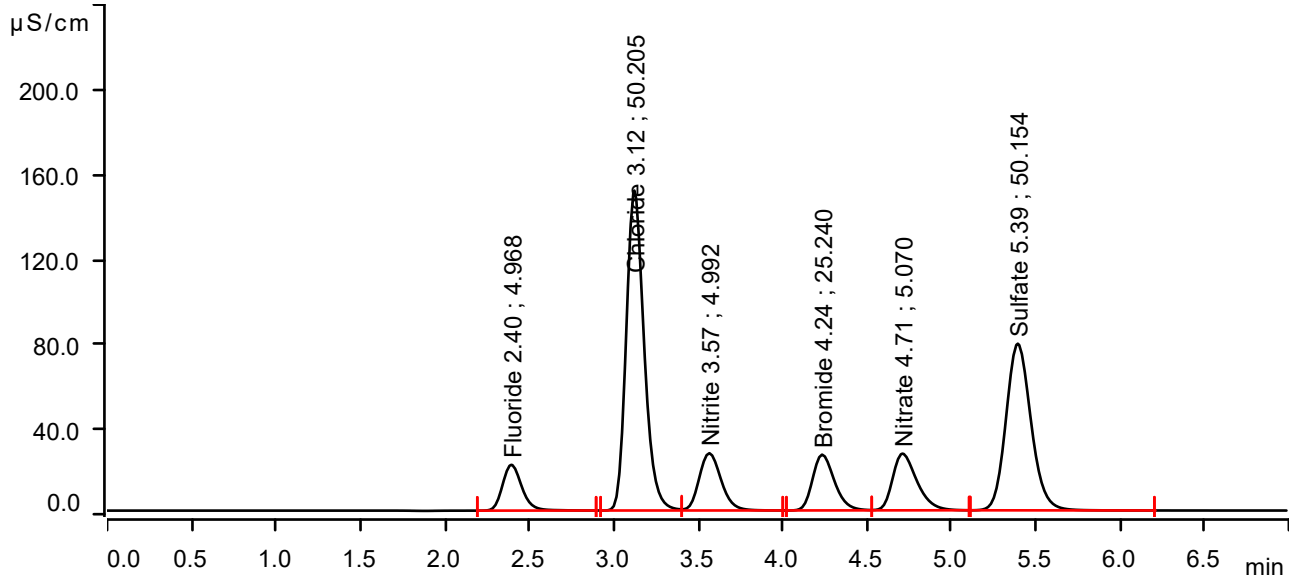
2023-04-24 9:59:17

Injection Time **2023-04-19 17:05:54 UTC-4**

Sample data

Ident	LCS
Sample type	Check standard 3
Position	130
Injections	1
Injection counter	1
Volume	20 µL
Dilution	1
Sample amount	1
Comments (Info 2)	LCS
Analyst (Info 3)	J1W
Instrument (Info 4)	IC-12

Anions



Peak number	Component name	Retention time	Area	Height	Concentration
		min	(µS/cm) x min	µS/cm	ppm
1	Fluoride	2.395	2.8605	21.549	4.968
2	Chloride	3.123	18.4980	150.518	50.205
3	Nitrite	3.567	4.0649	26.923	4.992
4	Bromide	4.235	3.9440	26.232	25.240
5	Nitrate	4.710	4.4468	26.684	5.070
6	Sulfate	5.393	13.5054	78.402	50.154

F Concentration on Column	4.968	ppm
Cl Concentration on Column	50.205	ppm
NO2 Concentration on Column	4.992	ppm
Br Concentration on Column	25.240	ppm
NO3 Concentration on Column	5.070	ppm
SO4 Concentration on Column	50.154	ppm

ALS

MagIC Net

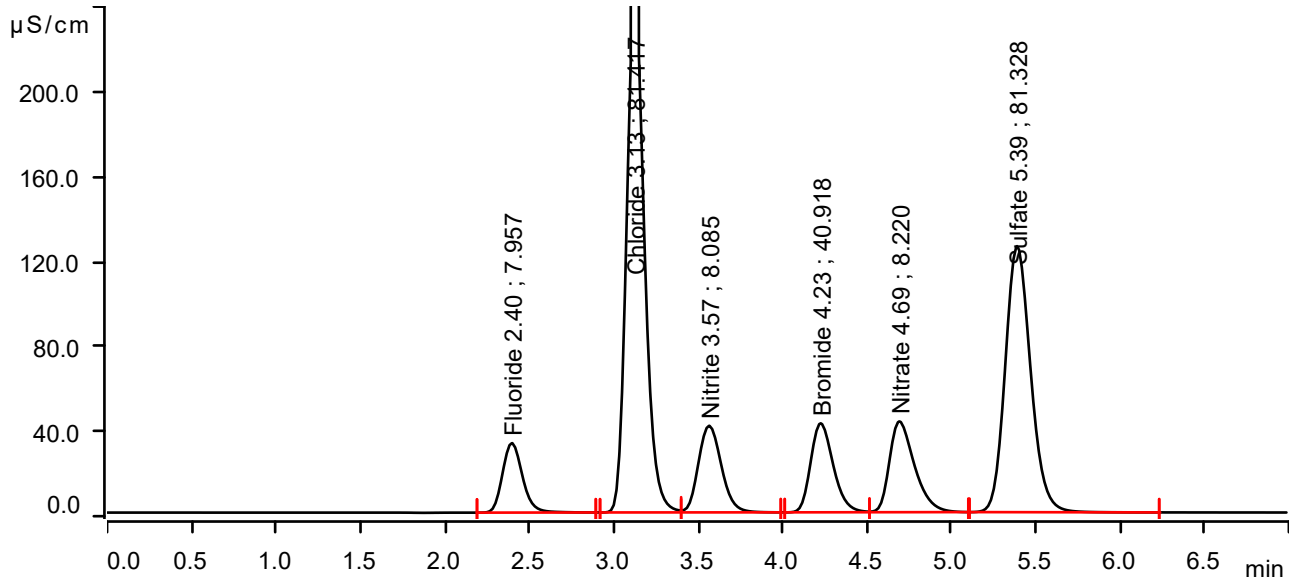
2023-04-24 9:59:18

Injection Time **2023-04-19 17:16:21 UTC-4**

Sample data

Ident	CCVH
Sample type	Check standard 2
Position	135
Injections	1
Injection counter	1
Volume	20 µL
Dilution	1
Sample amount	1
Comments (Info 2)	CCVH
Analyst (Info 3)	J1W
Instrument (Info 4)	IC-12

Anions



Peak number	Component name	Retention time	Area	Height	Concentration
		min	(µS/cm) x min	µS/cm	ppm
1	Fluoride	2.398	4.4855	32.694	7.957
2	Chloride	3.127	29.9975	243.230	81.417
3	Nitrite	3.565	6.4250	40.743	8.085
4	Bromide	4.227	6.4972	41.870	40.918
5	Nitrate	4.692	7.3308	42.733	8.220
6	Sulfate	5.388	21.8323	125.181	81.328

F Concentration on Column	7.957	ppm
Cl Concentration on Column	81.417	ppm
NO2 Concentration on Column	8.085	ppm
Br Concentration on Column	40.918	ppm
NO3 Concentration on Column	8.220	ppm
SO4 Concentration on Column	81.328	ppm

Ion Chromatography Solid Prep

Queue:	WCPR
	ANIONSPR
Rule:	EP
Batch:	60416
HBN:	1027767

Date:	07/20/23
Time:	13:42
Tech:	J1W

Reviewed By:	GMM
Reviewed Date:	7/21/2023

Glass Lot	230301002

SOP ID:	**04-ANION2**

Sample	Weight (grams)	Stir Time (mins)	Final Volume (mL)	Filtered (Y/N)	Comments
3697504	10	20	100	Y	MB
3697505	10	20	100	Y	LCS
3313761001	9.75	20	100	Y	
3313790001	9.63	20	100	Y	
3313810001	10.42	20	100	Y	
3313846001	9.71	20	100	Y	
3697506	9.84	20	100	Y	MS
3697507	9.57	20	100	Y	MSD

	Spike	
	Amount	Lot #
LCS:	1mL	221214009
MS:	1mL	221214009

Filter Lot #:	230406002
Syringe Lot #:	325635
Balance ID:	BAL-38
Pipette ID:	04-151

_Q:WCPR|_B:60416|_D:07/20/23

MagIC Net

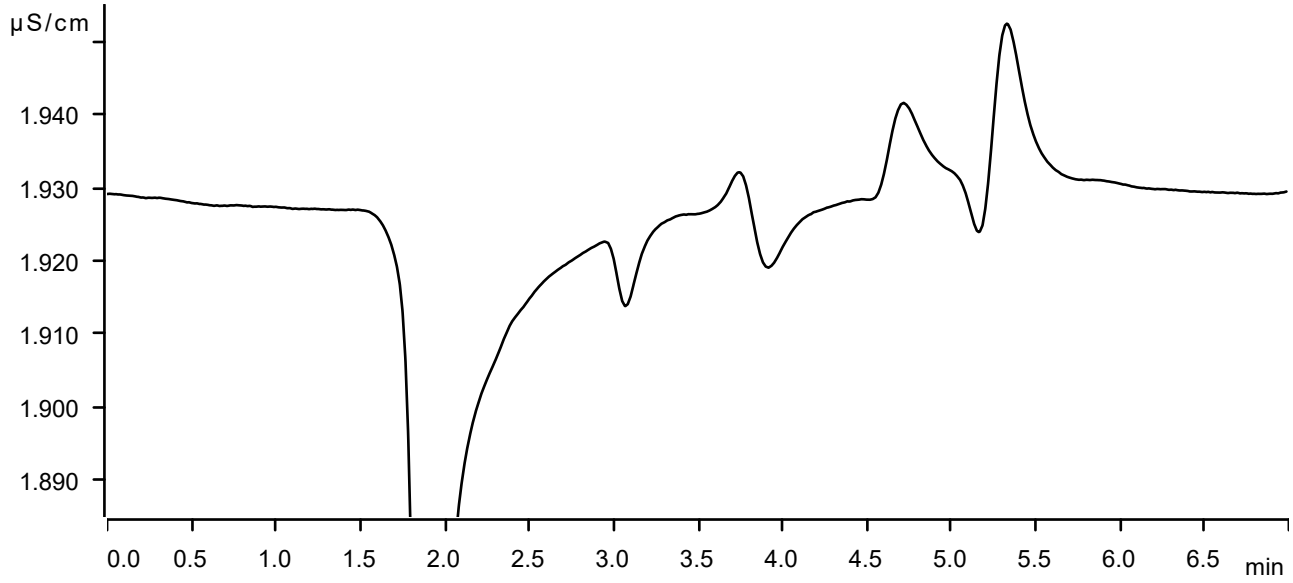
2023-07-21 10:22:03

Injection Time **2023-07-20 07:24:58 UTC-4**

Sample data

Ident	3697132	
Sample type	Sample	
Position	119	
Injections	1	
Injection counter	1	
Volume	20	µL
Dilution	1	
Sample amount	1	
Comments (Info 2)	MB	
Analyst (Info 3)	J1W	
Instrument (Info 4)	IC-12	

Anions



F Concentration on Column	invalid	ppm
Cl Concentration on Column	invalid	ppm
NO2 Concentration on Column	invalid	ppm
Br Concentration on Column	invalid	ppm
NO3 Concentration on Column	invalid	ppm
SO4 Concentration on Column	invalid	ppm

MagIC Net

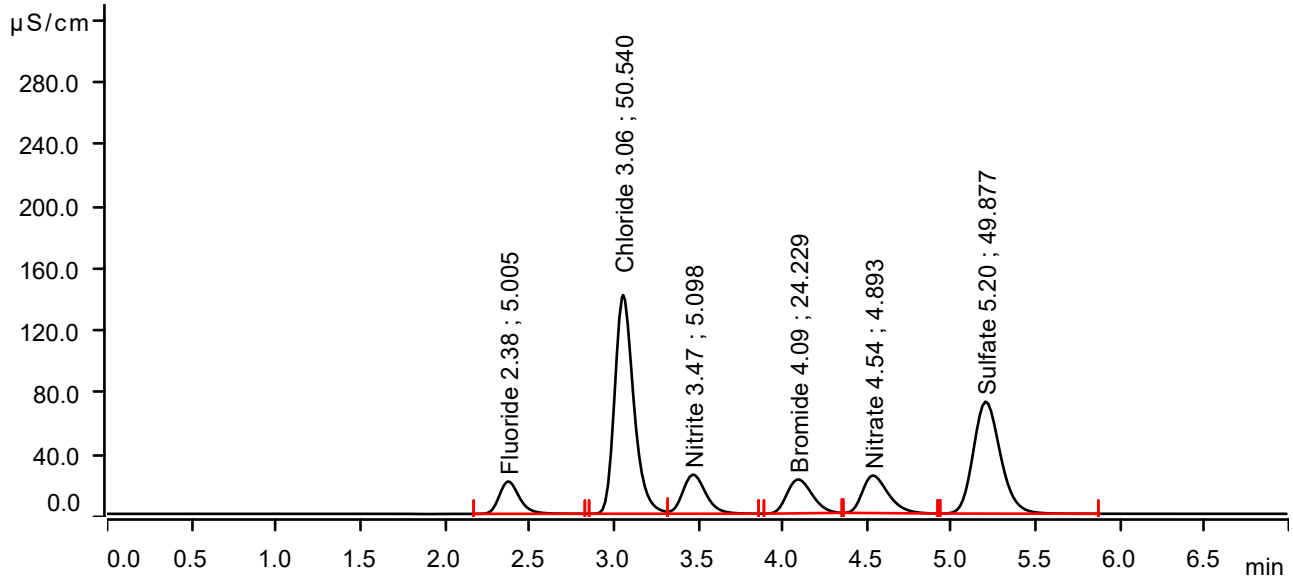
2023-07-21 10:22:04

Injection Time **2023-07-20 07:35:28 UTC-4**

Sample data

Ident	3697133	
Sample type	Check standard 3	
Position	130	
Injections	1	
Injection counter	1	
Volume	20	µL
Dilution	1	
Sample amount	1	
Comments (Info 2)	LCS/CCV	
Analyst (Info 3)	J1W	
Instrument (Info 4)	IC-12	

Anions



Peak number	Component name	Retention time	Area	Height	Concentration
		min	(µS/cm) x min	µS/cm	ppm
1	Fluoride	2.377	2.8809	20.832	5.005
2	Chloride	3.057	18.4807	140.887	50.540
3	Nitrite	3.472	3.9930	25.158	5.098
4	Bromide	4.093	3.7813	21.798	24.229
5	Nitrate	4.537	4.2865	24.218	4.893
6	Sulfate	5.203	13.4310	72.086	49.877

F Concentration on Column	5.005	ppm
Cl Concentration on Column	50.540	ppm
NO2 Concentration on Column	5.098	ppm
Br Concentration on Column	24.229	ppm
NO3 Concentration on Column	4.893	ppm
SO4 Concentration on Column	49.877	ppm

ALS

MagIC Net

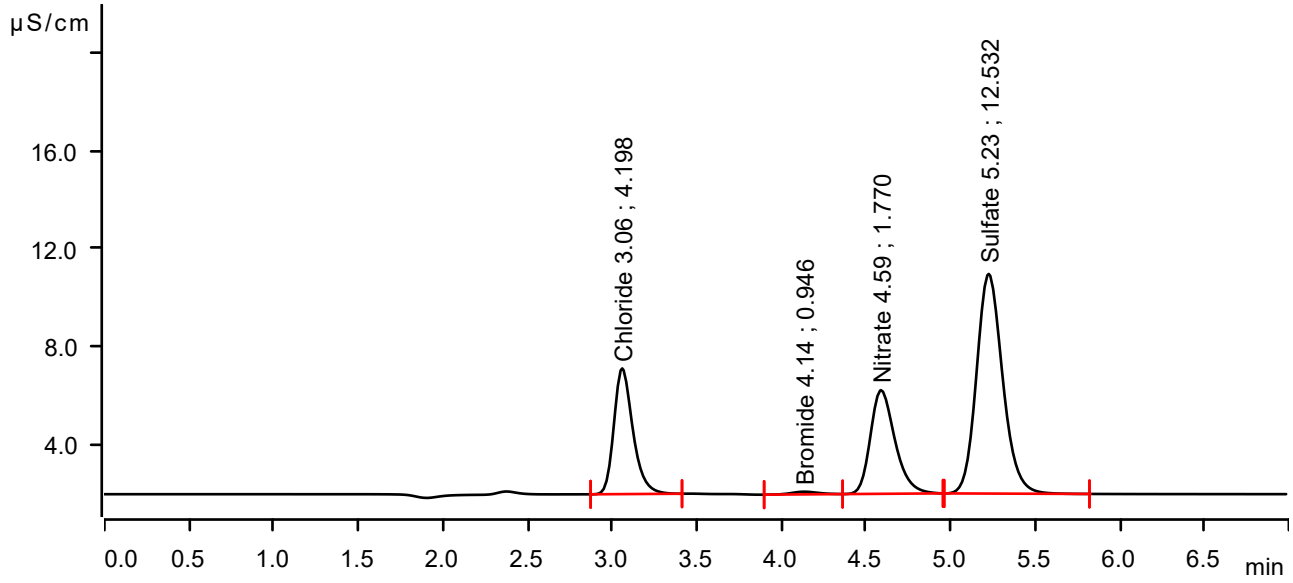
2023-07-21 10:22:05

Injection Time **2023-07-20 07:54:28 UTC-4**

Sample data

Ident	3313819001	
Sample type	Sample	
Position	1	
Injections	1	
Injection counter	1	
Volume	20	µL
Dilution	2	
Sample amount	1	
Comments (Info 2)	M	
Analyst (Info 3)	J1W	
Instrument (Info 4)	IC-12	

Anions



Peak number	Component name	Retention time	Area	Height	Concentration
		min	(µS/cm) x min	µS/cm	ppm
1	Chloride	3.060	0.6724	5.154	4.198
2	Bromide	4.135	0.0201	0.110	0.946
3	Nitrate	4.588	0.7162	4.251	1.770
4	Sulfate	5.225	1.6129	9.005	12.532

F Concentration on Column	invalid	ppm
Cl Concentration on Column	2.099	ppm
NO2 Concentration on Column	invalid	ppm
Br Concentration on Column	0.473	ppm
NO3 Concentration on Column	0.885	ppm
SO4 Concentration on Column	6.266	ppm

ALS

MagIC Net

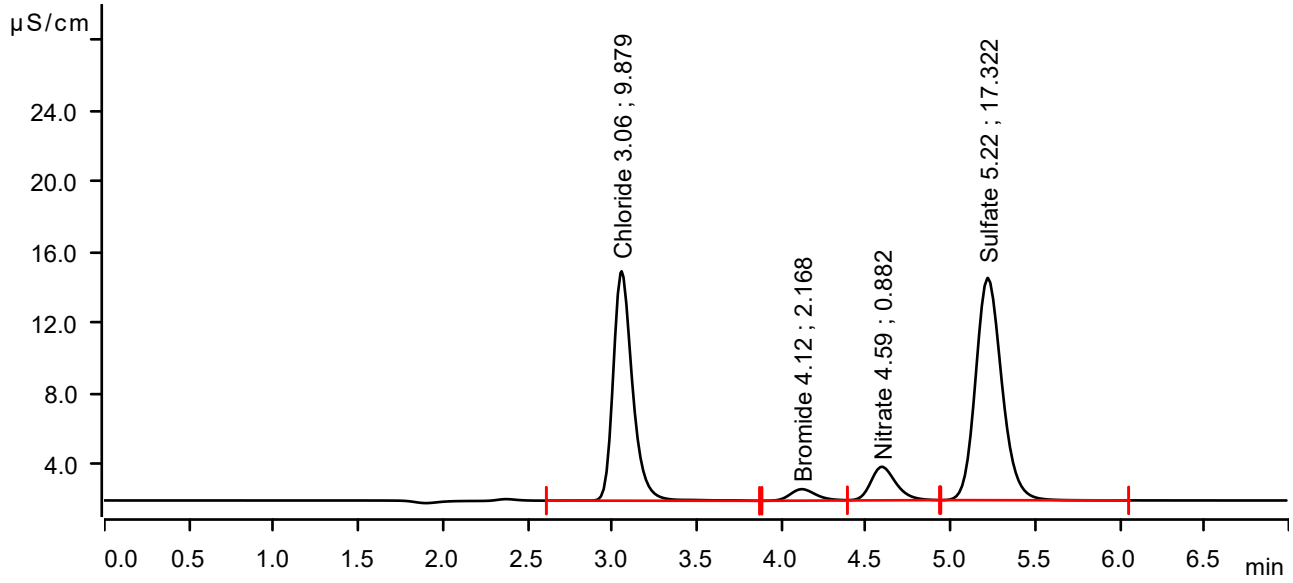
2023-07-21 10:22:06

Injection Time **2023-07-20 08:04:49 UTC-4**

Sample data

Ident	3313822001	
Sample type	Sample	
Position	2	
Injections	1	
Injection counter	1	
Volume	20	µL
Dilution	2	
Sample amount	1	
Comments (Info 2)	M	
Analyst (Info 3)	J1W	
Instrument (Info 4)	IC-12	

Anions



Peak number	Component name	Retention time	Area	Height	Concentration
		min	(µS/cm) x min	µS/cm	ppm
1	Chloride	3.057	1.7204	12.986	9.879
2	Bromide	4.122	0.1153	0.650	2.168
3	Nitrate	4.593	0.3270	1.899	0.882
4	Sulfate	5.220	2.2670	12.582	17.322

F Concentration on Column	invalid	ppm
Cl Concentration on Column	4.940	ppm
NO2 Concentration on Column	invalid	ppm
Br Concentration on Column	1.084	ppm
NO3 Concentration on Column	0.441	ppm
SO4 Concentration on Column	8.661	ppm

ALS

MagIC Net

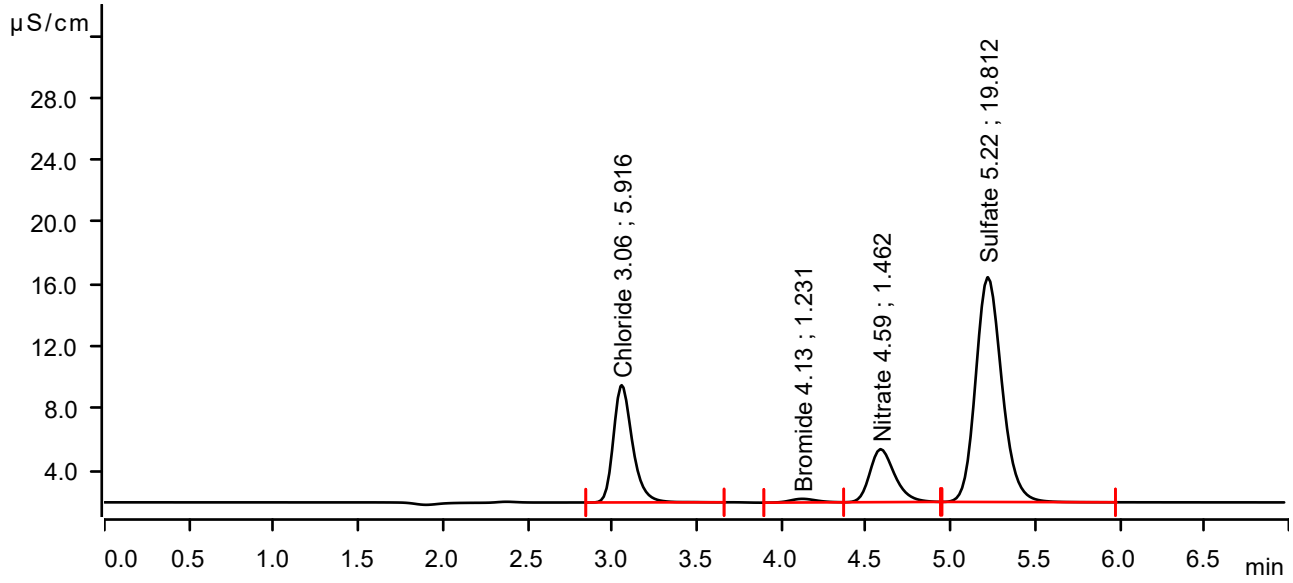
2023-07-21 10:22:07

Injection Time **2023-07-20 08:15:11 UTC-4**

Sample data

Ident	3313821001	
Sample type	Sample	
Position	3	
Injections	1	
Injection counter	1	
Volume	20	µL
Dilution	2	
Sample amount	1	
Comments (Info 2)	M	
Analyst (Info 3)	J1W	
Instrument (Info 4)	IC-12	

Anions



Peak number	Component name	Retention time	Area	Height	Concentration
		min	(µS/cm) x min	µS/cm	ppm
1	Chloride	3.057	0.9893	7.554	5.916
2	Bromide	4.125	0.0423	0.235	1.231
3	Nitrate	4.587	0.5809	3.410	1.462
4	Sulfate	5.220	2.6068	14.480	19.812

F Concentration on Column	invalid	ppm
Cl Concentration on Column	2.958	ppm
NO2 Concentration on Column	invalid	ppm
Br Concentration on Column	0.615	ppm
NO3 Concentration on Column	0.731	ppm
SO4 Concentration on Column	9.906	ppm

ALS

MagIC Net

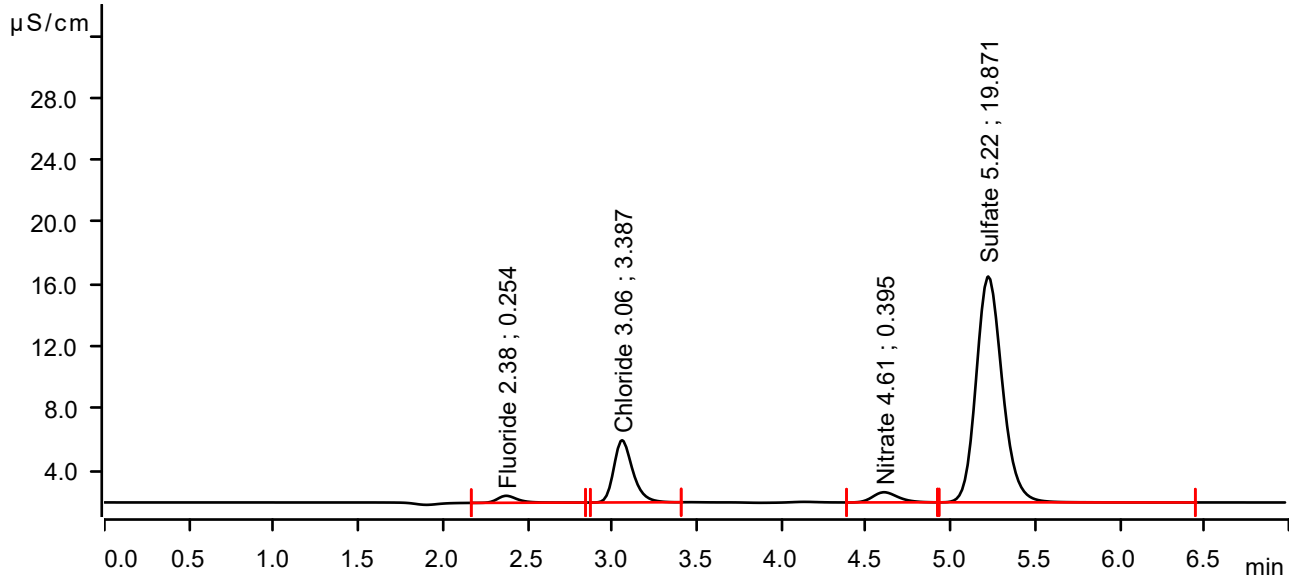
2023-07-21 10:22:08

Injection Time **2023-07-20 08:25:34 UTC-4**

Sample data

Ident	3313820001	
Sample type	Sample	
Position	4	
Injections	1	
Injection counter	1	
Volume	20	µL
Dilution	2	
Sample amount	1	
Comments (Info 2)	M	
Analyst (Info 3)	J1W	
Instrument (Info 4)	IC-12	

Anions



Peak number	Component name	Retention time	Area	Height	Concentration
		min	(µS/cm) x min	µS/cm	ppm
1	Fluoride	2.375	0.0629	0.451	0.254
2	Chloride	3.060	0.5226	4.006	3.387
3	Nitrate	4.607	0.1141	0.655	0.395
4	Sulfate	5.222	2.6148	14.551	19.871

F Concentration on Column	0.127	ppm
Cl Concentration on Column	1.693	ppm
NO2 Concentration on Column	invalid	ppm
Br Concentration on Column	invalid	ppm
NO3 Concentration on Column	0.197	ppm
SO4 Concentration on Column	9.936	ppm

MagIC Net

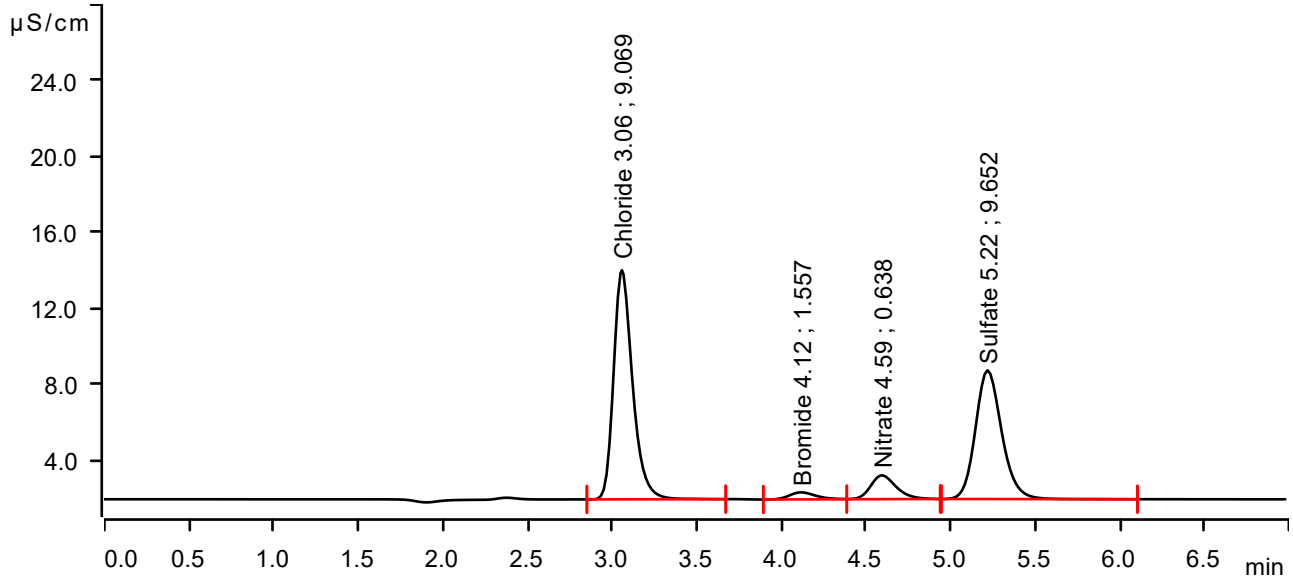
2023-07-21 10:22:09

Injection Time **2023-07-20 08:35:57 UTC-4**

Sample data

Ident	3313844001	
Sample type	Sample	
Position	5	
Injections	1	
Injection counter	1	
Volume	20	µL
Dilution	2	
Sample amount	1	
Comments (Info 2)	M	
Analyst (Info 3)	J1W	
Instrument (Info 4)	IC-12	

Anions



Peak number	Component name	Retention time	Area	Height	Concentration
		min	(µS/cm) x min	µS/cm	ppm
1	Chloride	3.058	1.5710	12.080	9.069
2	Bromide	4.117	0.0677	0.371	1.557
3	Nitrate	4.593	0.2203	1.256	0.638
4	Sulfate	5.218	1.2193	6.783	9.652

F Concentration on Column	invalid	ppm
Cl Concentration on Column	4.535	ppm
NO2 Concentration on Column	invalid	ppm
Br Concentration on Column	0.779	ppm
NO3 Concentration on Column	0.319	ppm
SO4 Concentration on Column	4.826	ppm

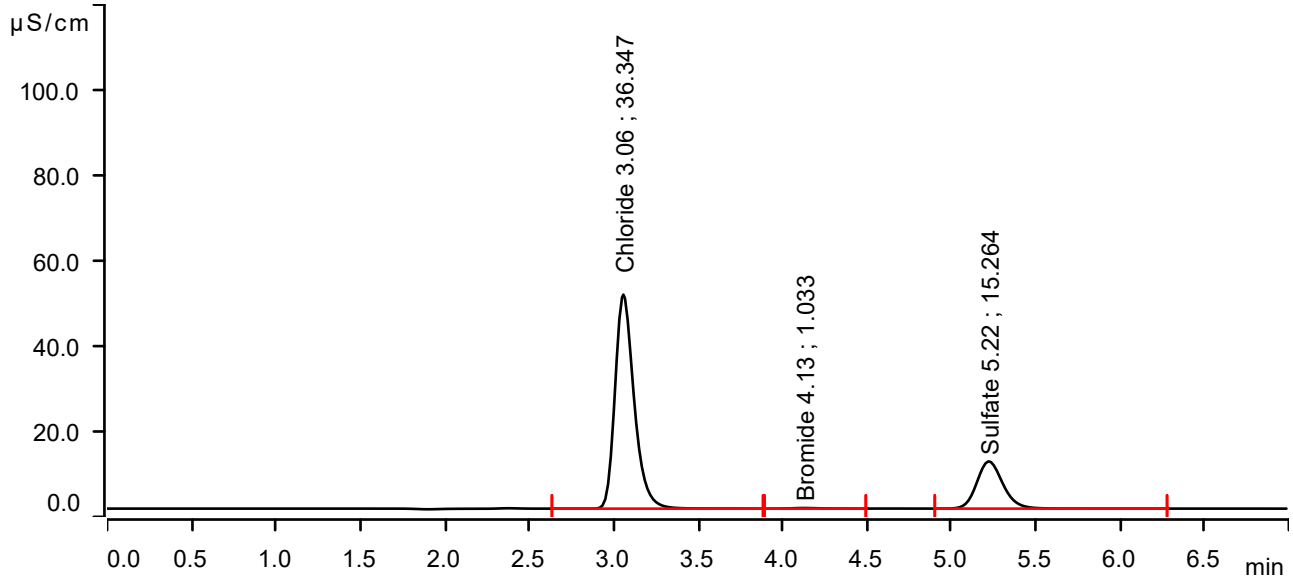
2023-07-21 10:22:10

Injection Time **2023-07-20 08:46:20 UTC-4**

Sample data

Ident	3313815001	
Sample type	Sample	
Position	6	
Injections	1	
Injection counter	1	
Volume	20	µL
Dilution	2	
Sample amount	1	
Comments (Info 2)	M	
Analyst (Info 3)	J1W	
Instrument (Info 4)	IC-12	

Anions



Peak number	Component name	Retention time	Area	Height	Concentration
		min	(µS/cm) x min	µS/cm	ppm
1	Chloride	3.058	6.5969	50.140	36.347
2	Bromide	4.128	0.0268	0.141	1.033
3	Sulfate	5.222	1.9861	11.051	15.264

F Concentration on Column	invalid	ppm
Cl Concentration on Column	18.174	ppm
NO2 Concentration on Column	invalid	ppm
Br Concentration on Column	0.516	ppm
NO3 Concentration on Column	invalid	ppm
SO4 Concentration on Column	7.632	ppm

MagIC Net

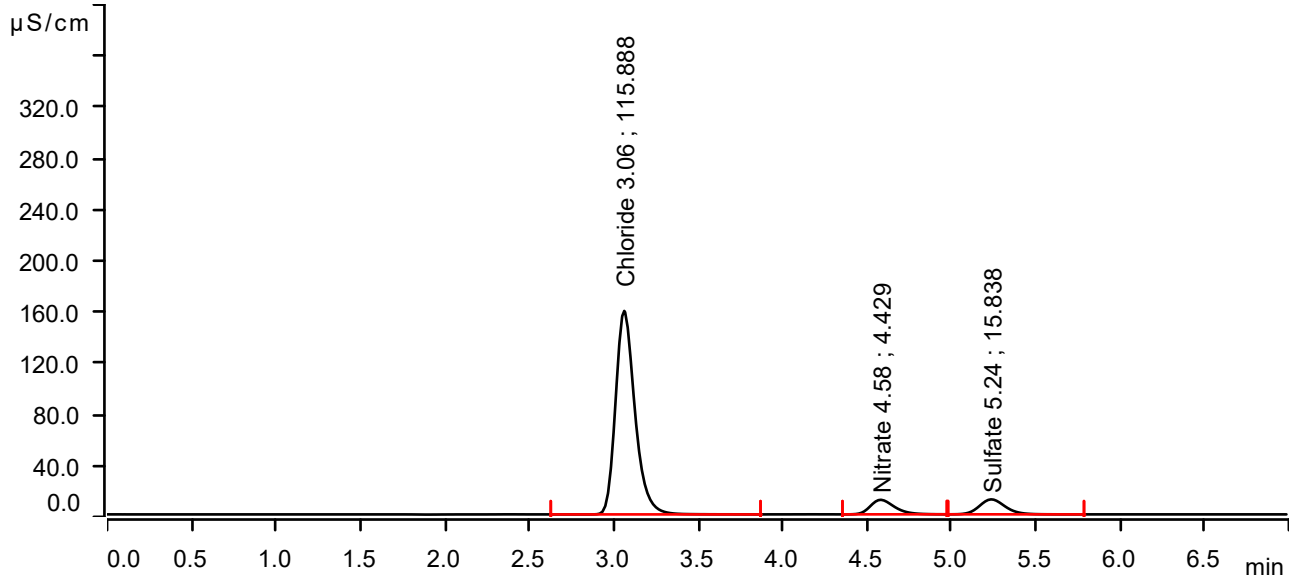
2023-07-21 10:22:11

Injection Time **2023-07-20 08:56:43 UTC-4**

Sample data

Ident	3313855001	
Sample type	Sample	
Position	7	
Injections	1	
Injection counter	1	
Volume	20	µL
Dilution	2	
Sample amount	1	
Comments (Info 2)	M	
Analyst (Info 3)	J1W	
Instrument (Info 4)	IC-12	

Anions



Peak number	Component name	Retention time	Area	Height	Concentration
		min	(µS/cm) x min	µS/cm	ppm
1	Chloride	3.063	21.1905	158.884	115.888
2	Nitrate	4.582	1.8884	11.327	4.429
3	Sulfate	5.237	2.0644	11.659	15.838

F Concentration on Column	invalid	ppm
Cl Concentration on Column	57.944	ppm
NO2 Concentration on Column	invalid	ppm
Br Concentration on Column	invalid	ppm
NO3 Concentration on Column	2.214	ppm
SO4 Concentration on Column	7.919	ppm

ALS

MagIC Net

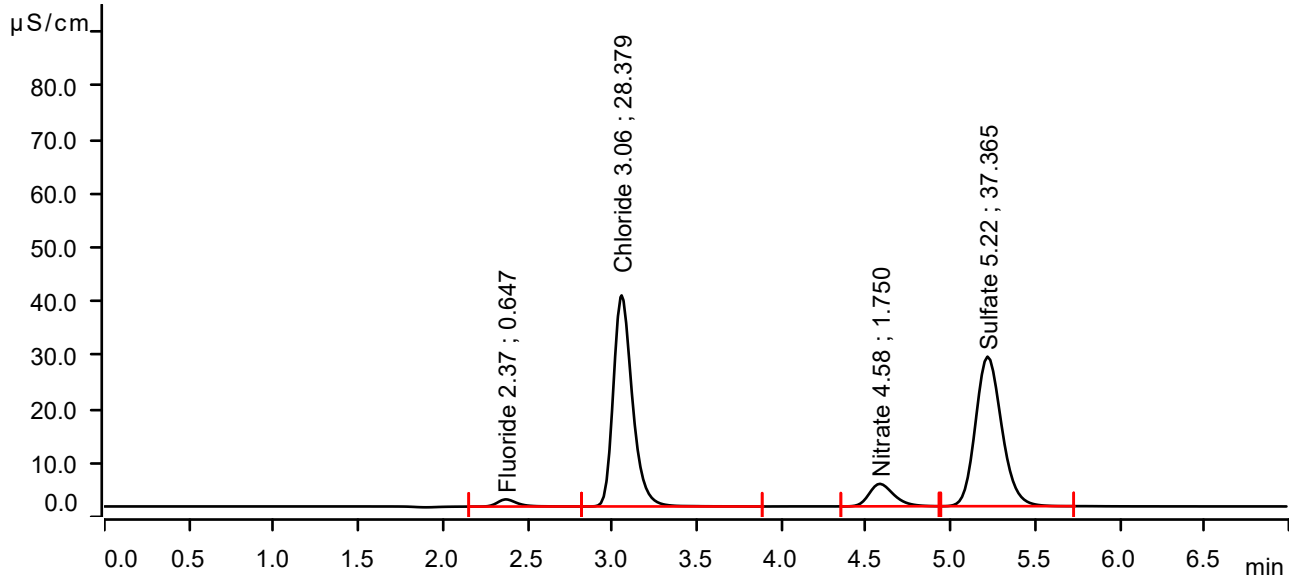
2023-07-21 10:22:12

Injection Time **2023-07-20 09:07:07 UTC-4**

Sample data

Ident	3313868001
Sample type	Sample
Position	8
Injections	1
Injection counter	1
Volume	20 µL
Dilution	2
Sample amount	1
Comments (Info 2)	M
Analyst (Info 3)	J1W
Instrument (Info 4)	IC-12

Anions



Peak number	Component name	Retention time	Area	Height	Concentration
		min	(µS/cm) x min	µS/cm	ppm
1	Fluoride	2.373	0.1807	1.328	0.647
2	Chloride	3.057	5.1299	39.140	28.379
3	Nitrate	4.582	0.7071	4.162	1.750
4	Sulfate	5.218	4.9975	27.732	37.365

F Concentration on Column	0.324	ppm
Cl Concentration on Column	14.190	ppm
NO2 Concentration on Column	invalid	ppm
Br Concentration on Column	invalid	ppm
NO3 Concentration on Column	0.875	ppm
SO4 Concentration on Column	18.683	ppm

MagIC Net

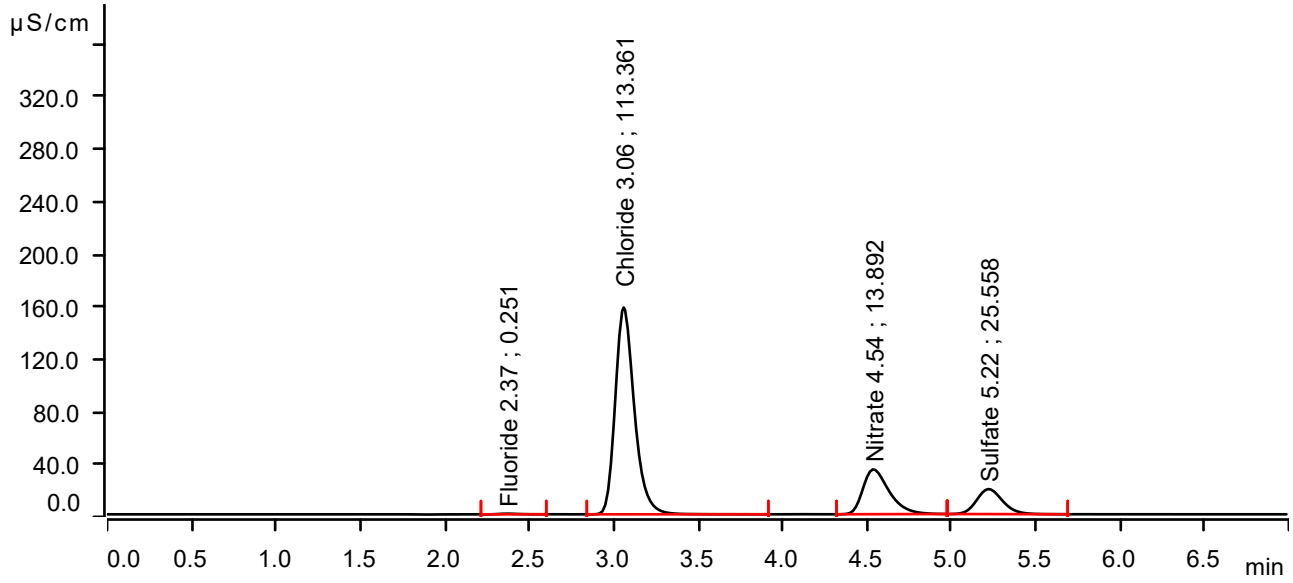
2023-07-21 10:22:14

Injection Time **2023-07-20 09:17:31 UTC-4**

Sample data

Ident	3313903001	
Sample type	Sample	
Position	9	
Injections	1	
Injection counter	1	
Volume	20	µL
Dilution	2	
Sample amount	1	
Comments (Info 2)	FILT	
Analyst (Info 3)	J1W	
Instrument (Info 4)	IC-12	

Anions



Peak number	Component name	Retention time	Area	Height	Concentration
		min	(µS/cm) x min	µS/cm	ppm
1	Fluoride	2.372	0.0621	0.482	0.251
2	Chloride	3.060	20.7282	157.468	113.361
3	Nitrate	4.538	6.1564	34.102	13.892
4	Sulfate	5.220	3.3903	19.010	25.558

F Concentration on Column	0.125	ppm
Cl Concentration on Column	56.680	ppm
NO2 Concentration on Column	invalid	ppm
Br Concentration on Column	invalid	ppm
NO3 Concentration on Column	6.946	ppm
SO4 Concentration on Column	12.779	ppm

MagIC Net

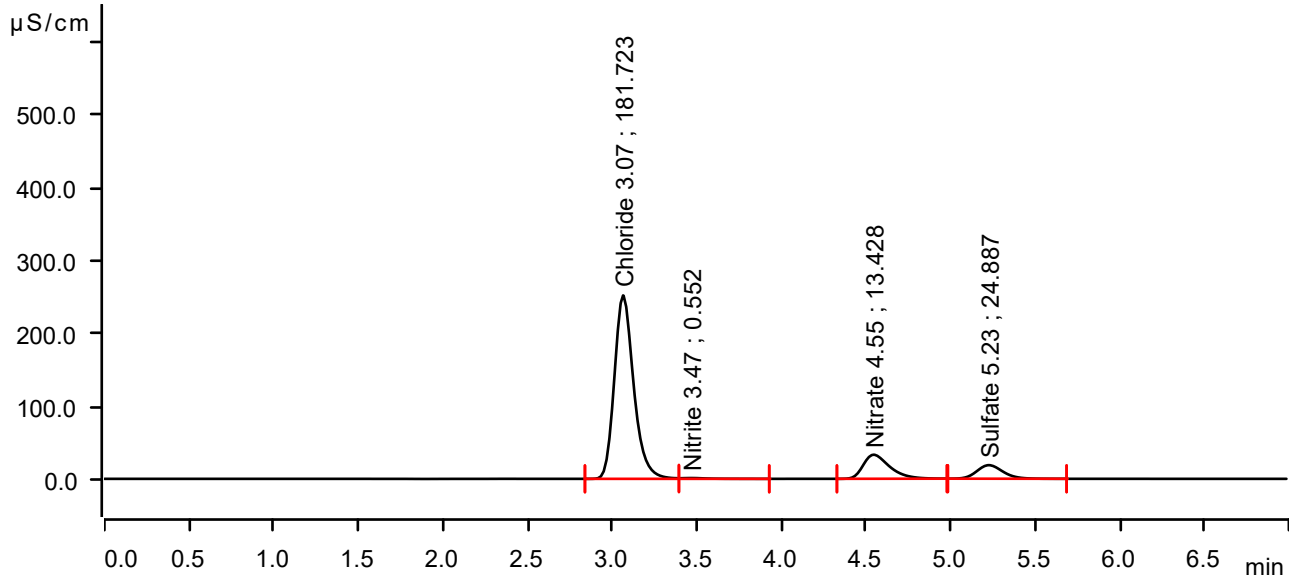
2023-07-21 10:22:15

Injection Time **2023-07-20 09:27:56 UTC-4**

Sample data

Ident	3313759002	
Sample type	Sample	
Position	10	
Injections	1	
Injection counter	1	
Volume	20	µL
Dilution	2	
Sample amount	1	
Comments (Info 2)	FILT	
Analyst (Info 3)	J1W	
Instrument (Info 4)	IC-12	

Anions



Peak number	Component name	Retention time min	Area (µS/cm) x min	Height µS/cm	Concentration ppm
1	Chloride	3.065	33.1997	250.668	181.723
2	Nitrite	3.468	0.1835	1.104	0.552
3	Nitrate	4.545	5.9436	32.876	13.428
4	Sulfate	5.225	3.2988	18.529	24.887

F Concentration on Column	invalid	ppm
Cl Concentration on Column	90.861	ppm
NO2 Concentration on Column	0.276	ppm
Br Concentration on Column	invalid	ppm
NO3 Concentration on Column	6.714	ppm
SO4 Concentration on Column	12.444	ppm

ALS

MagIC Net

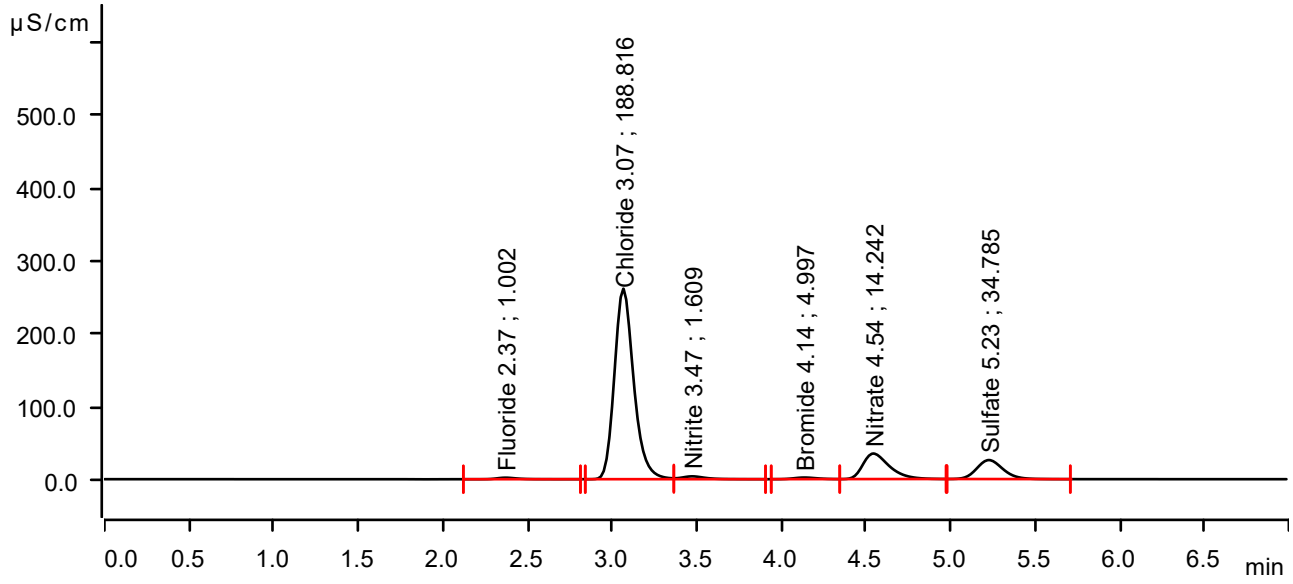
2023-07-21 10:22:16

Injection Time **2023-07-20 09:38:21 UTC-4**

Sample data

Ident	3697382
Sample type	Spiking 1
Position	11
Injections	1
Injection counter	1
Volume	20 µL
Dilution	2
Sample amount	1
Commands (Info 1)	
Comments (Info 2)	MS, FILT
Analyst (Info 3)	J1W
Instrument (Info 4)	IC-12

Anions



Peak number	Component name	Retention time min	Area (µS/cm) x min	Height µS/cm	Concentration ppm
1	Fluoride	2.372	0.2865	2.082	1.002
2	Chloride	3.067	34.4899	260.350	188.816
3	Nitrite	3.473	0.6191	3.889	1.609
4	Bromide	4.137	0.3359	2.161	4.997
5	Nitrate	4.543	6.3168	34.902	14.242
6	Sulfate	5.225	4.6466	25.967	34.785

F Concentration on Column	0.501	ppm
Cl Concentration on Column	94.408	ppm
NO2 Concentration on Column	0.805	ppm
Br Concentration on Column	2.498	ppm
NO3 Concentration on Column	7.121	ppm
SO4 Concentration on Column	17.393	ppm

ALS

MagIC Net

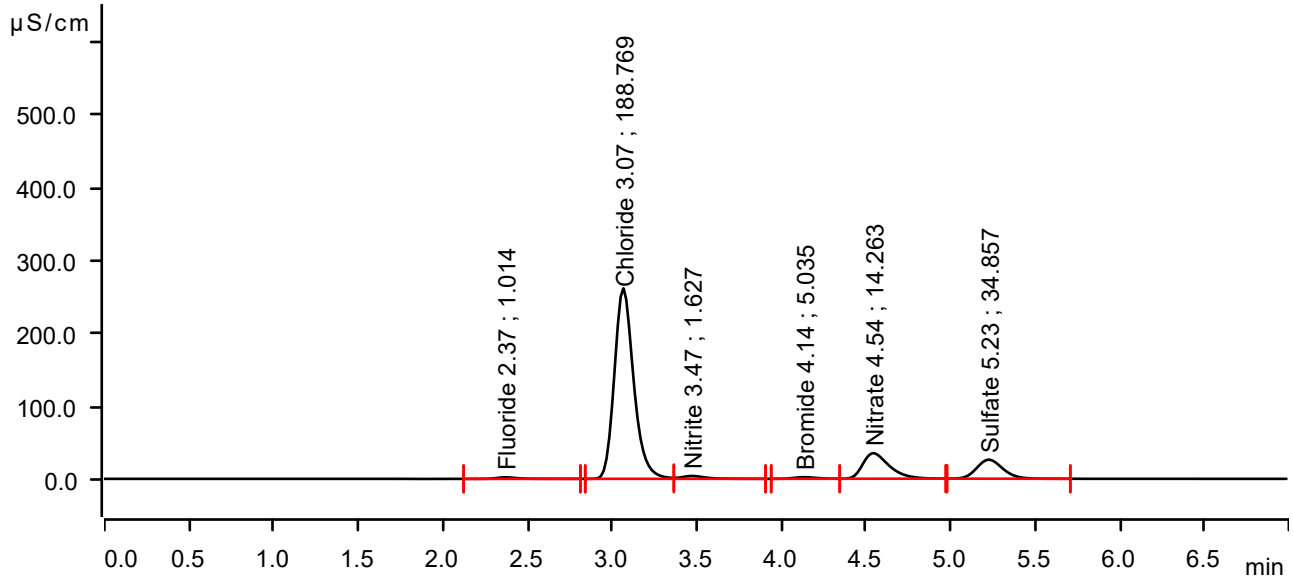
2023-07-21 10:22:17

Injection Time **2023-07-20 09:48:47 UTC-4**

Sample data

Ident	3697383	
Sample type	Spiking 1	
Position	12	
Injections	1	
Injection counter	1	
Volume	20	µL
Dilution	2	
Sample amount	1	
Comments (Info 2)	MSD, FILT	
Analyst (Info 3)	J1W	
Instrument (Info 4)	IC-12	

Anions



Peak number	Component name	Retention time	Area	Height	Concentration
		min	(µS/cm) x min	µS/cm	ppm
1	Fluoride	2.372	0.2899	2.103	1.014
2	Chloride	3.067	34.4813	260.314	188.769
3	Nitrite	3.472	0.6263	3.918	1.627
4	Bromide	4.135	0.3389	2.182	5.035
5	Nitrate	4.543	6.3265	34.894	14.263
6	Sulfate	5.225	4.6563	25.999	34.857

F Concentration on Column	0.507	ppm
Cl Concentration on Column	94.384	ppm
NO2 Concentration on Column	0.813	ppm
Br Concentration on Column	2.517	ppm
NO3 Concentration on Column	7.131	ppm
SO4 Concentration on Column	17.428	ppm

MagIC Net

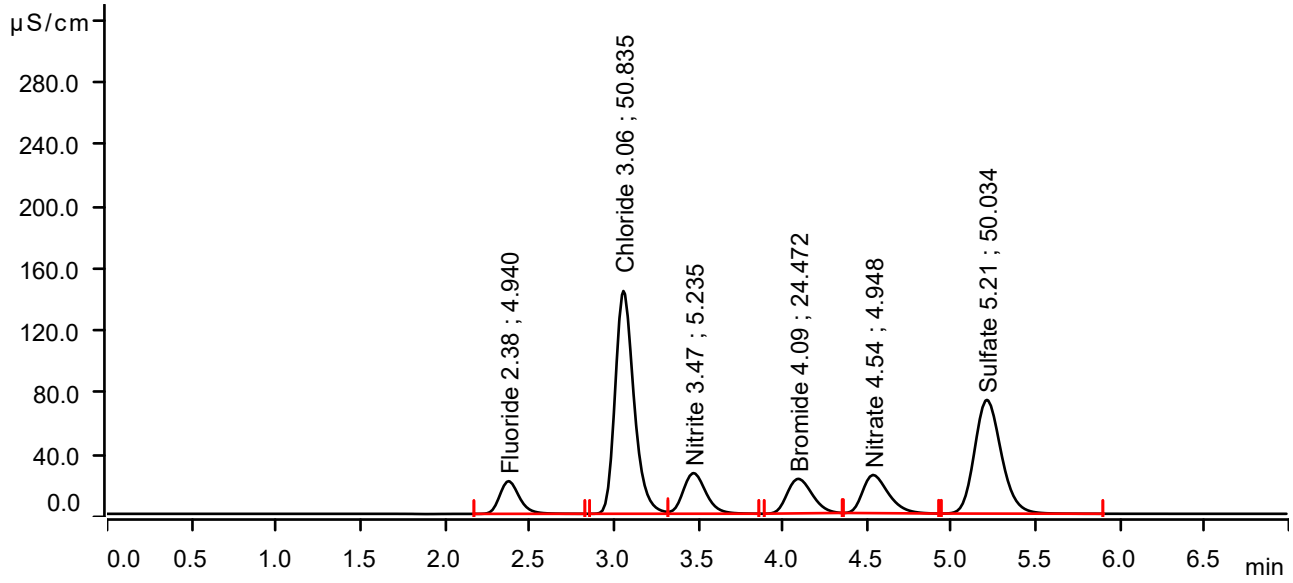
2023-07-21 10:22:18

Injection Time **2023-07-20 09:59:12 UTC-4**

Sample data

Ident	3697384
Sample type	Check standard 3
Position	130
Injections	1
Injection counter	1
Volume	20 µL
Dilution	1
Sample amount	1
Comments (Info 2)	CCV
Analyst (Info 3)	J1W
Instrument (Info 4)	IC-12

Anions



Peak number	Component name	Retention time min	Area (µS/cm) x min	Height µS/cm	Concentration ppm
1	Fluoride	2.378	2.8448	21.026	4.940
2	Chloride	3.058	18.5887	143.519	50.835
3	Nitrite	3.473	4.0956	26.164	5.235
4	Bromide	4.093	3.8203	22.222	24.472
5	Nitrate	4.537	4.3357	24.563	4.948
6	Sulfate	5.210	13.4730	73.269	50.034

F Concentration on Column	4.940	ppm
Cl Concentration on Column	50.835	ppm
NO2 Concentration on Column	5.235	ppm
Br Concentration on Column	24.472	ppm
NO3 Concentration on Column	4.948	ppm
SO4 Concentration on Column	50.034	ppm

ALS

MagIC Net

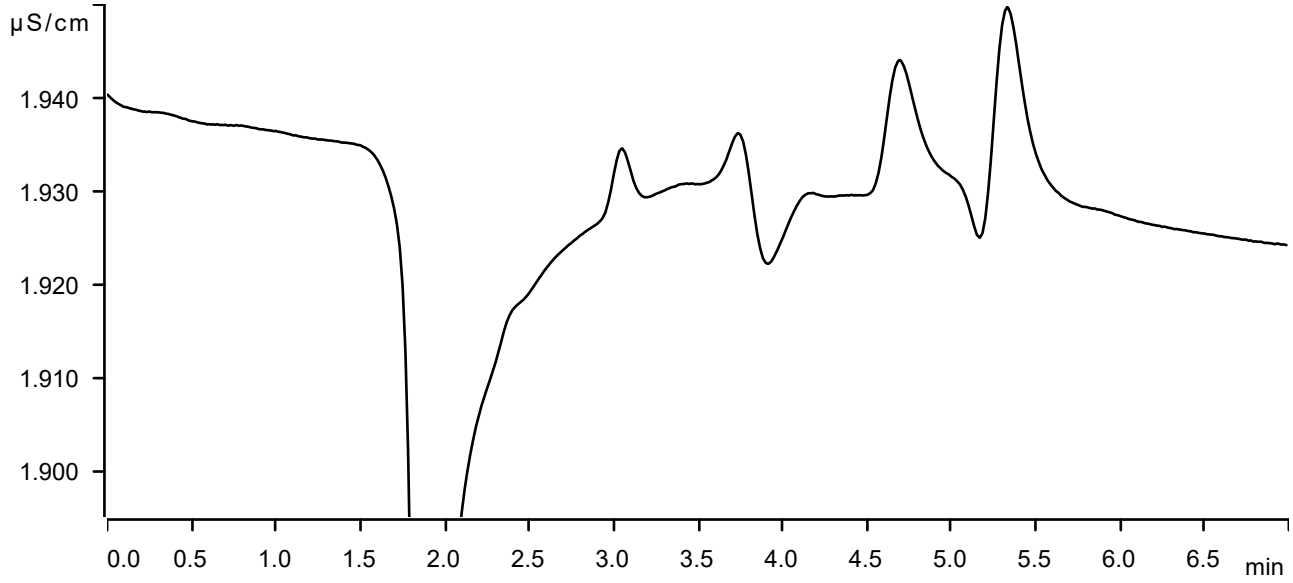
2023-07-21 10:22:19

Injection Time **2023-07-20 10:09:40 UTC-4**

Sample data

Ident	3697385	
Sample type	Sample	
Position	119	
Injections	1	
Injection counter	1	
Volume	20	µL
Dilution	1	
Sample amount	1	
Comments (Info 2)	MB	
Analyst (Info 3)	J1W	
Instrument (Info 4)	IC-12	

Anions



F Concentration on Column	invalid	ppm
Cl Concentration on Column	invalid	ppm
NO2 Concentration on Column	invalid	ppm
Br Concentration on Column	invalid	ppm
NO3 Concentration on Column	invalid	ppm
SO4 Concentration on Column	invalid	ppm

ALS

MagIC Net

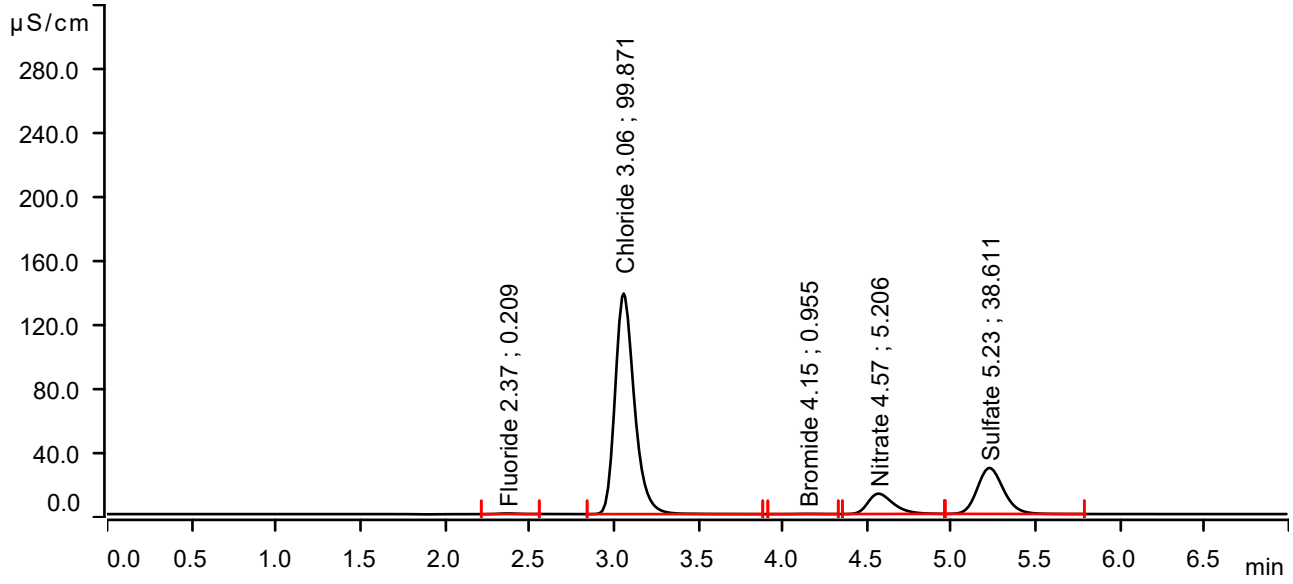
2023-07-21 10:22:20

Injection Time **2023-07-20 10:20:01 UTC-4**

Sample data

Ident	3310821002	
Sample type	Sample	
Position	13	
Injections	1	
Injection counter	1	
Volume	20	µL
Dilution	2	
Sample amount	1	
Commands (Info 1)		
Comments (Info 2)	FILT 2x GEORGE	
Analyst (Info 3)	J1W	
Instrument (Info 4)	IC-12	

Anions



Peak number	Component name	Retention time min	Area (µS/cm) x min	Height µS/cm	Concentration ppm
1	Fluoride	2.373	0.0496	0.387	0.209
2	Chloride	3.060	18.2592	137.803	99.871
3	Bromide	4.152	0.0208	0.130	0.955
4	Nitrate	4.568	2.2332	12.723	5.206
5	Sulfate	5.225	5.1669	28.727	38.611

F Concentration on Column	0.104	ppm
Cl Concentration on Column	49.936	ppm
NO2 Concentration on Column	invalid	ppm
Br Concentration on Column	0.477	ppm
NO3 Concentration on Column	2.603	ppm
SO4 Concentration on Column	19.305	ppm

MagIC Net

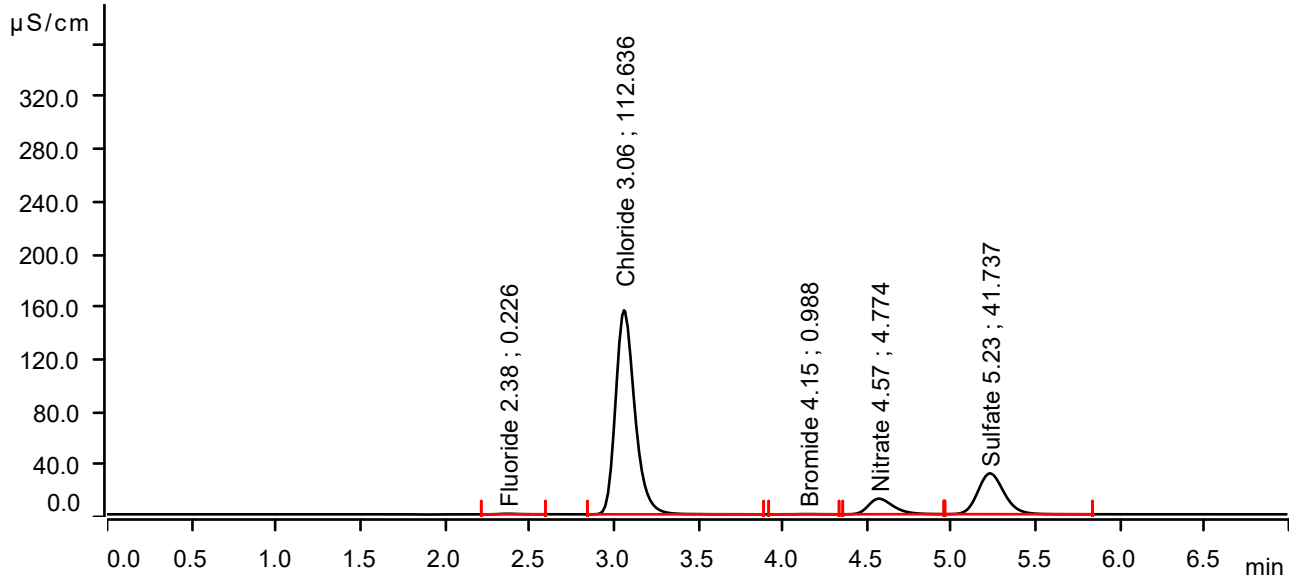
2023-07-21 10:22:22

Injection Time **2023-07-20 10:40:53 UTC-4**

Sample data

Ident	3313763001	
Sample type	Sample	
Position	15	
Injections	1	
Injection counter	1	
Volume	20	µL
Dilution	2	
Sample amount	1	
Comments (Info 2)	FILT	
Analyst (Info 3)	J1W	
Instrument (Info 4)	IC-12	

Anions



Peak number	Component name	Retention time min	Area (µS/cm) x min	Height µS/cm	Concentration ppm
1	Fluoride	2.375	0.0547	0.424	0.226
2	Chloride	3.062	20.5955	155.326	112.636
3	Bromide	4.152	0.0233	0.146	0.988
4	Nitrate	4.572	2.0416	11.864	4.774
5	Sulfate	5.228	5.5917	31.079	41.737

F Concentration on Column	0.113	ppm
Cl Concentration on Column	56.318	ppm
NO2 Concentration on Column	invalid	ppm
Br Concentration on Column	0.494	ppm
NO3 Concentration on Column	2.387	ppm
SO4 Concentration on Column	20.869	ppm

MagIC Net

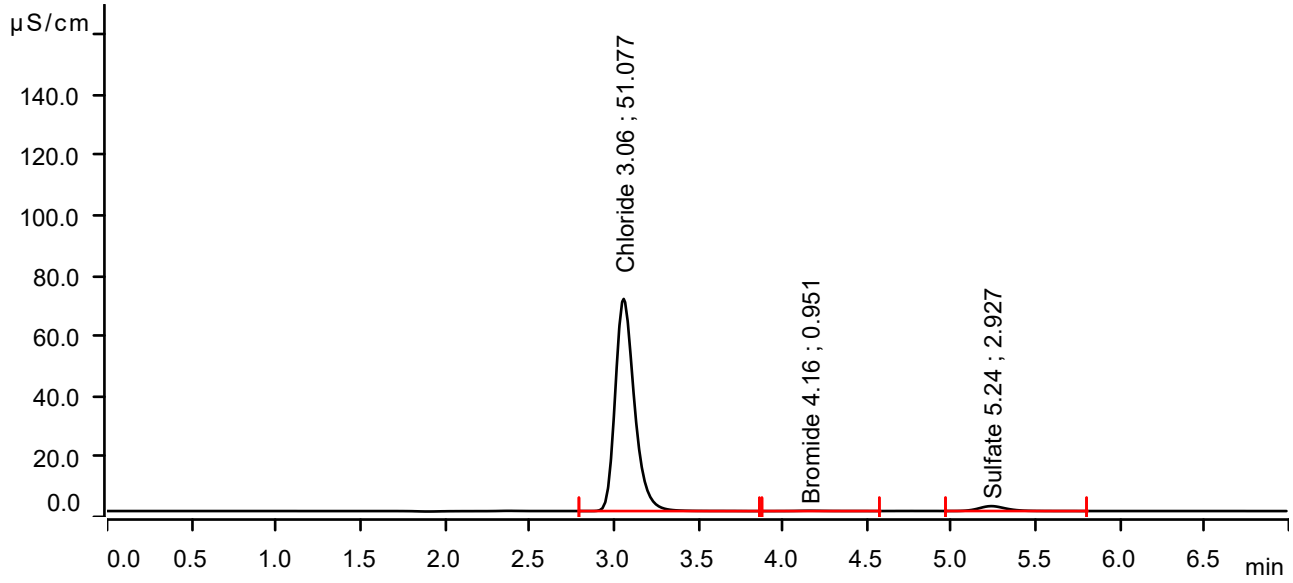
2023-07-21 10:22:23

Injection Time **2023-07-20 10:51:19 UTC-4**

Sample data

Ident	3313770001	
Sample type	Sample	
Position	16	
Injections	1	
Injection counter	1	
Volume	20	µL
Dilution	2	
Sample amount	1	
Comments (Info 2)	FILT	
Analyst (Info 3)	J1W	
Instrument (Info 4)	IC-12	

Anions



Peak number	Component name	Retention time	Area	Height	Concentration
		min	(µS/cm) x min	µS/cm	ppm
1	Chloride	3.060	9.3064	70.409	51.077
2	Bromide	4.162	0.0204	0.101	0.951
3	Sulfate	5.237	0.2996	1.622	2.927

F Concentration on Column	invalid	ppm
Cl Concentration on Column	25.539	ppm
NO2 Concentration on Column	invalid	ppm
Br Concentration on Column	0.475	ppm
NO3 Concentration on Column	invalid	ppm
SO4 Concentration on Column	1.464	ppm

MagIC Net

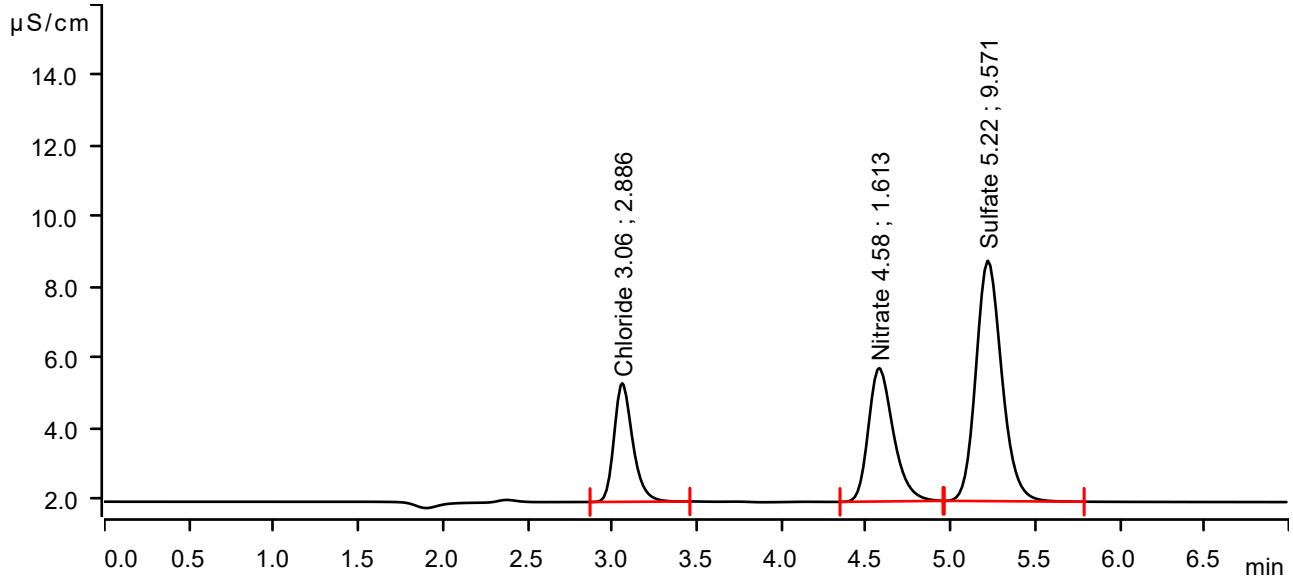
2023-07-21 10:22:24

Injection Time **2023-07-20 11:01:46 UTC-4**

Sample data

Ident	3313771001	
Sample type	Sample	
Position	17	
Injections	1	
Injection counter	1	
Volume	20	µL
Dilution	2	
Sample amount	1	
Comments (Info 2)	FILT	
Analyst (Info 3)	J1W	
Instrument (Info 4)	IC-12	

Anions



Peak number	Component name	Retention time	Area	Height	Concentration
		min	(µS/cm) x min	µS/cm	ppm
1	Chloride	3.060	0.4302	3.354	2.886
2	Nitrate	4.578	0.6471	3.775	1.613
3	Sulfate	5.220	1.2082	6.803	9.571

F Concentration on Column	invalid	ppm
Cl Concentration on Column	1.443	ppm
NO2 Concentration on Column	invalid	ppm
Br Concentration on Column	invalid	ppm
NO3 Concentration on Column	0.806	ppm
SO4 Concentration on Column	4.785	ppm

MagIC Net

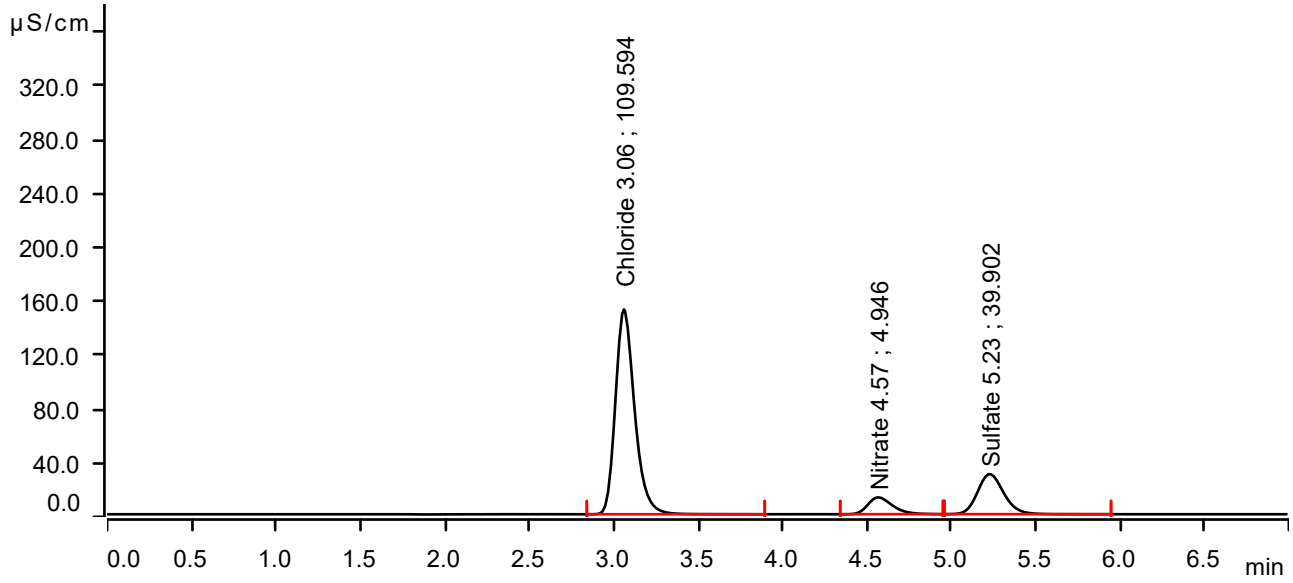
2023-07-21 10:22:25

Injection Time **2023-07-20 11:12:13 UTC-4**

Sample data

Ident	3313780001	
Sample type	Sample	
Position	18	
Injections	1	
Injection counter	1	
Volume	20	µL
Dilution	2	
Sample amount	1	
Comments (Info 2)	FILT	
Analyst (Info 3)	J1W	
Instrument (Info 4)	IC-12	

Anions



Peak number	Component name	Retention time	Area	Height	Concentration
		min	(µS/cm) x min	µS/cm	ppm
1	Chloride	3.062	20.0391	151.955	109.594
2	Nitrate	4.567	2.1180	12.476	4.946
3	Sulfate	5.227	5.3424	29.685	39.902

F Concentration on Column	invalid	ppm
Cl Concentration on Column	54.797	ppm
NO2 Concentration on Column	invalid	ppm
Br Concentration on Column	invalid	ppm
NO3 Concentration on Column	2.473	ppm
SO4 Concentration on Column	19.951	ppm

MagIC Net

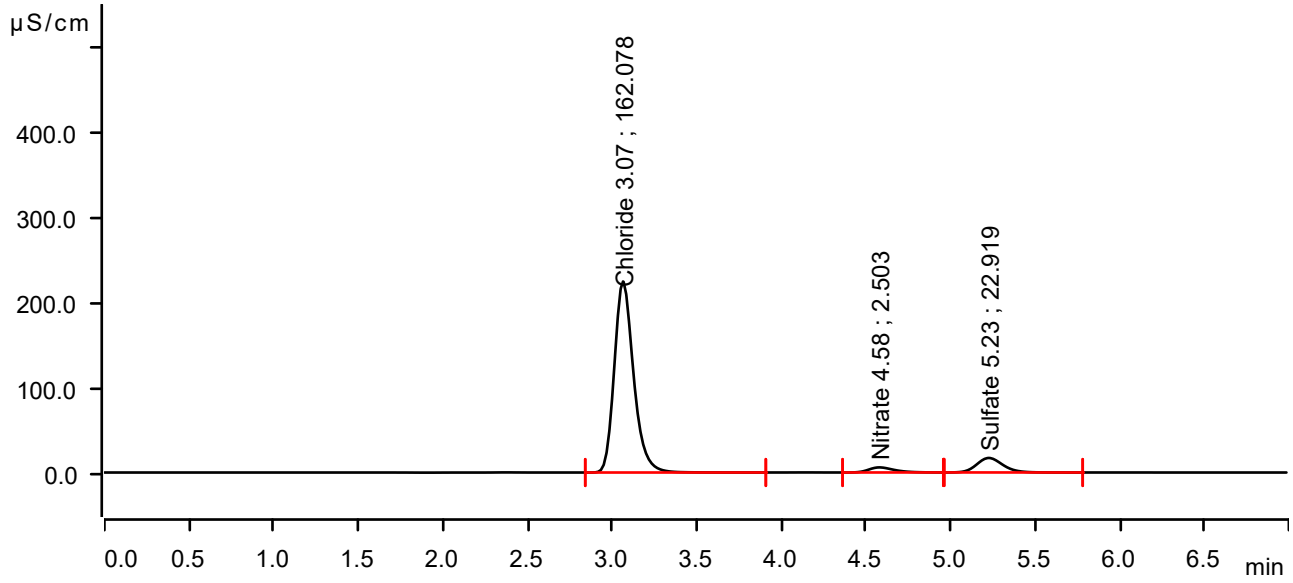
2023-07-21 10:22:26

Injection Time **2023-07-20 11:22:40 UTC-4**

Sample data

Ident	3313781001	
Sample type	Sample	
Position	19	
Injections	1	
Injection counter	1	
Volume	20	µL
Dilution	2	
Sample amount	1	
Comments (Info 2)	FILT	
Analyst (Info 3)	J1W	
Instrument (Info 4)	IC-12	

Anions



Peak number	Component name	Retention time	Area	Height	Concentration
		min	(µS/cm) x min	µS/cm	ppm
1	Chloride	3.065	29.6227	223.778	162.078
2	Nitrate	4.578	1.0381	5.952	2.503
3	Sulfate	5.225	3.0305	16.977	22.919

F Concentration on Column	invalid	ppm
Cl Concentration on Column	81.039	ppm
NO2 Concentration on Column	invalid	ppm
Br Concentration on Column	invalid	ppm
NO3 Concentration on Column	1.252	ppm
SO4 Concentration on Column	11.459	ppm

MagIC Net

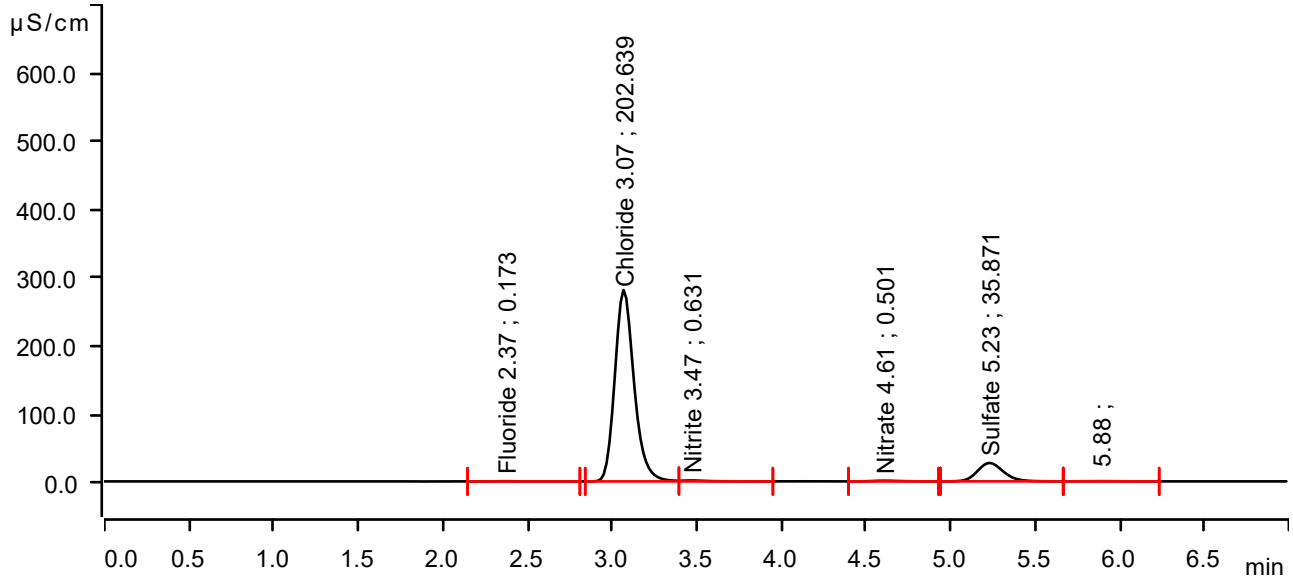
2023-07-21 10:22:27

Injection Time **2023-07-20 11:33:08 UTC-4**

Sample data

Ident	3313786001	
Sample type	Sample	
Position	20	
Injections	1	
Injection counter	1	
Volume	20	µL
Dilution	2	
Sample amount	1	
Comments (Info 2)	FILT	
Analyst (Info 3)	J1W	
Instrument (Info 4)	IC-12	

Anions



Peak number	Component name	Retention time	Area	Height	Concentration
		min	(µS/cm) x min	µS/cm	ppm
1	Fluoride	2.373	0.0387	0.249	0.173
2	Chloride	3.068	37.0019	280.124	202.639
3	Nitrite	3.470	0.2163	1.290	0.631
4	Nitrate	4.607	0.1606	0.907	0.501
5	Sulfate	5.230	4.7943	26.874	35.871

F Concentration on Column	0.086	ppm
Cl Concentration on Column	101.319	ppm
NO2 Concentration on Column	0.316	ppm
Br Concentration on Column	invalid	ppm
NO3 Concentration on Column	0.251	ppm
SO4 Concentration on Column	17.935	ppm

MagIC Net

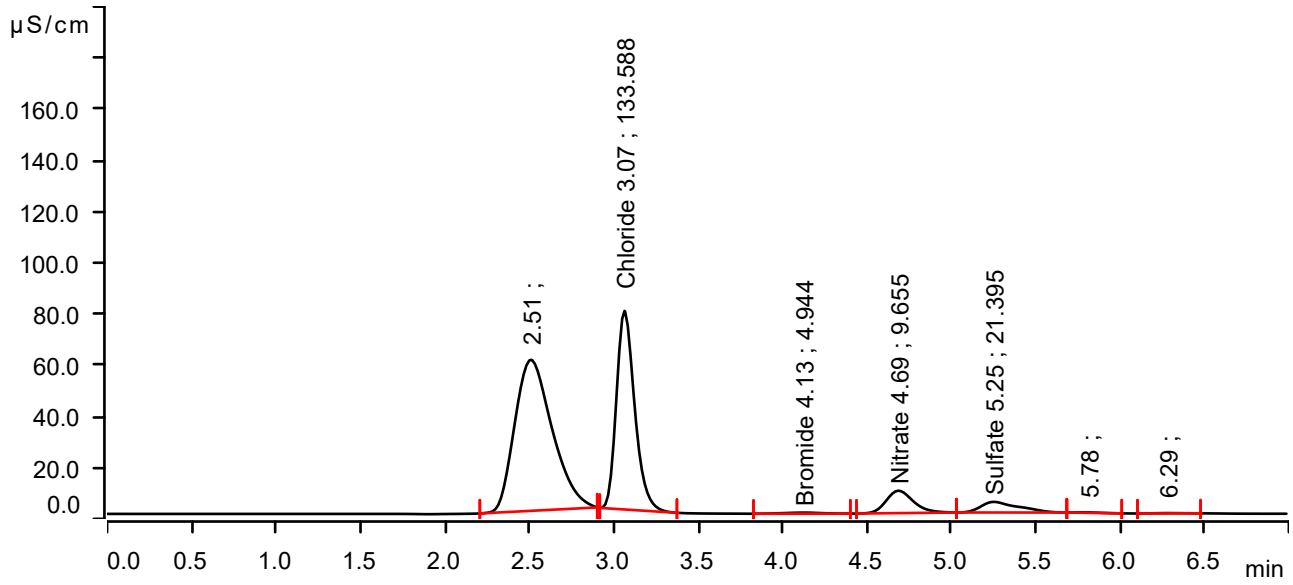
2023-07-21 10:22:28

Injection Time **2023-07-20 11:43:36 UTC-4**

Sample data

Ident	3313798001	
Sample type	Sample	
Position	21	
Injections	1	
Injection counter	1	
Volume	20	µL
Dilution	5	
Sample amount	1	
Comments (Info 2)	FILT	
Analyst (Info 3)	J1W	
Instrument (Info 4)	IC-12	

Anions



Peak number	Component name	Retention time	Area	Height	Concentration
		min	(µS/cm) x min	µS/cm	ppm
2	Chloride	3.065	9.7399	77.519	133.588
3	Bromide	4.127	0.1005	0.407	4.944
4	Nitrate	4.687	1.6376	8.737	9.655
5	Sulfate	5.250	1.0698	4.164	21.395

F Concentration on Column	invalid	ppm
Cl Concentration on Column	26.718	ppm
NO2 Concentration on Column	invalid	ppm
Br Concentration on Column	0.989	ppm
NO3 Concentration on Column	1.931	ppm
SO4 Concentration on Column	4.279	ppm

ALS

MagIC Net

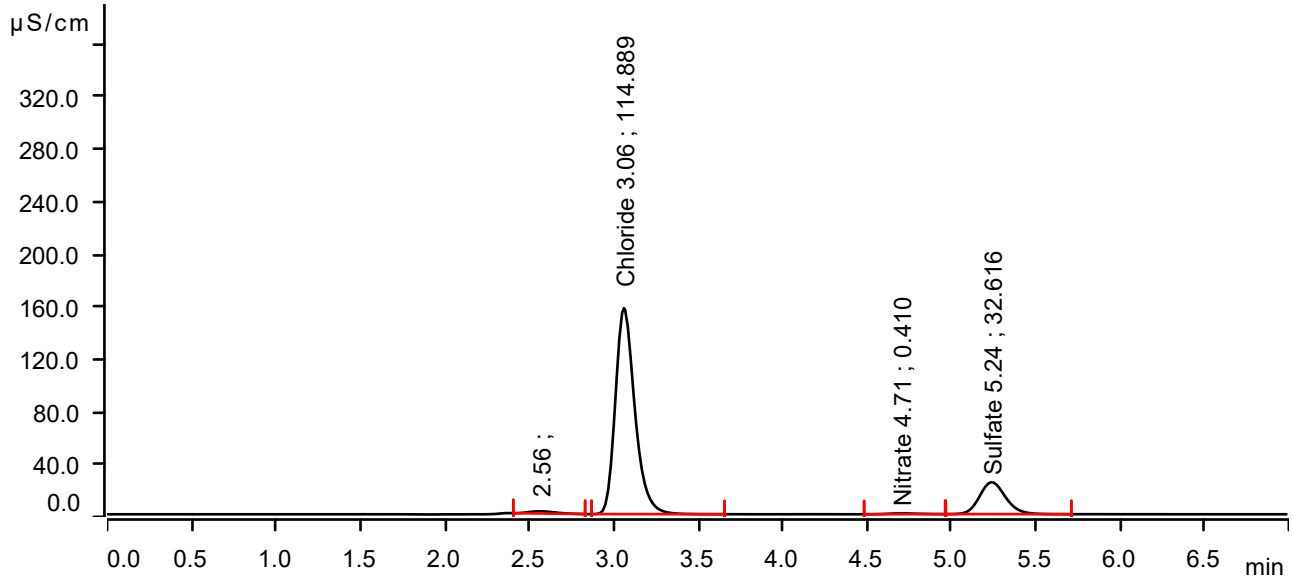
2023-07-21 10:22:29

Injection Time **2023-07-20 11:54:04 UTC-4**

Sample data

Ident	3313833001	
Sample type	Sample	
Position	22	
Injections	1	
Injection counter	1	
Volume	20	µL
Dilution	2	
Sample amount	1	
Comments (Info 2)	FILT	
Analyst (Info 3)	J1W	
Instrument (Info 4)	IC-12	

Anions



Peak number	Component name	Retention time	Area	Height	Concentration
		min	(µS/cm) x min	µS/cm	ppm
2	Chloride	3.062	21.0078	156.857	114.889
3	Nitrate	4.707	0.1210	0.612	0.410
4	Sulfate	5.238	4.3514	24.302	32.616

F Concentration on Column	invalid	ppm
Cl Concentration on Column	57.445	ppm
NO2 Concentration on Column	invalid	ppm
Br Concentration on Column	invalid	ppm
NO3 Concentration on Column	0.205	ppm
SO4 Concentration on Column	16.308	ppm

MagIC Net

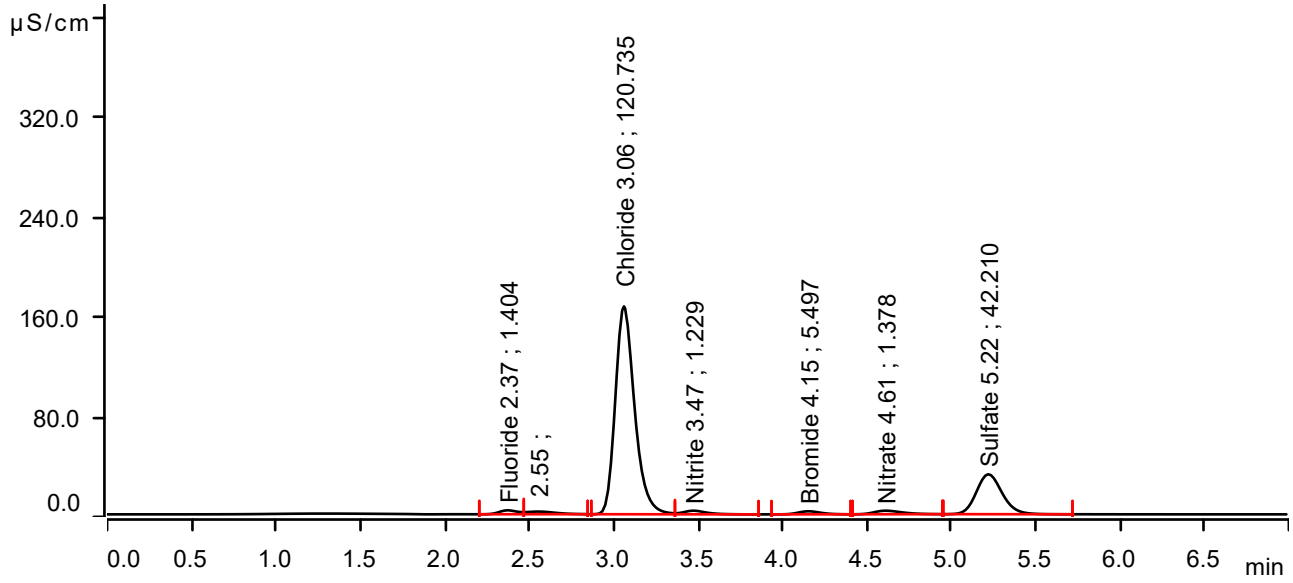
2023-07-21 10:22:30

Injection Time **2023-07-20 12:04:33 UTC-4**

Sample data

Ident	3697386	
Sample type	Spiking 1	
Position	23	
Injections	1	
Injection counter	1	
Volume	20	µL
Dilution	2	
Sample amount	1	
Comments (Info 2)	MS, FILT	
Analyst (Info 3)	J1W	
Instrument (Info 4)	IC-12	

Anions



Peak number	Component name	Retention time	Area	Height	Concentration
		min	(µS/cm) x min	µS/cm	ppm
1	Fluoride	2.373	0.4060	3.152	1.404
3	Chloride	3.062	22.0768	166.385	120.735
4	Nitrite	3.473	0.4631	2.895	1.229
5	Bromide	4.153	0.3750	2.427	5.497
6	Nitrate	4.612	0.5442	2.843	1.378
7	Sulfate	5.218	5.6560	31.940	42.210

F Concentration on Column	0.702	ppm
Cl Concentration on Column	60.367	ppm
NO2 Concentration on Column	0.615	ppm
Br Concentration on Column	2.749	ppm
NO3 Concentration on Column	0.689	ppm
SO4 Concentration on Column	21.105	ppm

ALS

MagIC Net

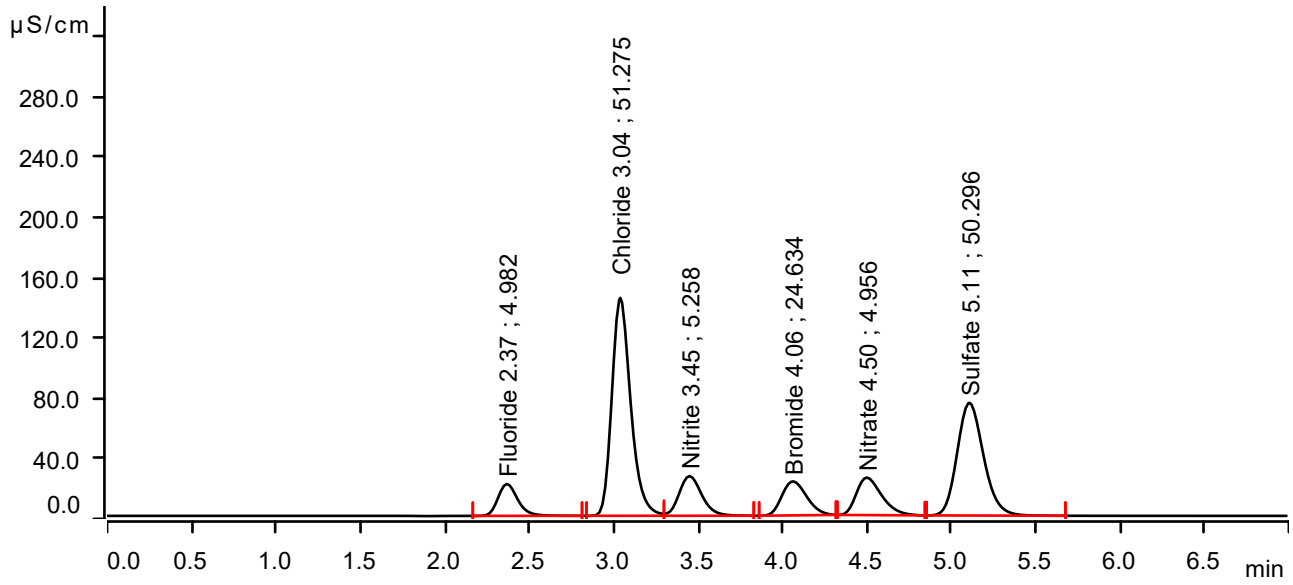
2023-07-21 10:22:32

Injection Time **2023-07-20 12:15:03 UTC-4**

Sample data

Ident	3697387
Sample type	Check standard 3
Position	131
Injections	1
Injection counter	1
Volume	20 µL
Dilution	1
Sample amount	1
Comments (Info 2)	LCS/CCV
Analyst (Info 3)	J1W
Instrument (Info 4)	IC-12

Anions



Peak number	Component name	Retention time min	Area (µS/cm) x min	Height µS/cm	Concentration ppm
1	Fluoride	2.368	2.8682	21.140	4.982
2	Chloride	3.040	18.7498	144.640	51.275
3	Nitrite	3.450	4.1124	26.286	5.258
4	Bromide	4.062	3.8464	22.540	24.634
5	Nitrate	4.498	4.3435	24.872	4.956
6	Sulfate	5.107	13.5435	74.817	50.296

F Concentration on Column	4.982	ppm
Cl Concentration on Column	51.275	ppm
NO2 Concentration on Column	5.258	ppm
Br Concentration on Column	24.634	ppm
NO3 Concentration on Column	4.956	ppm
SO4 Concentration on Column	50.296	ppm

ALS

MagIC Net

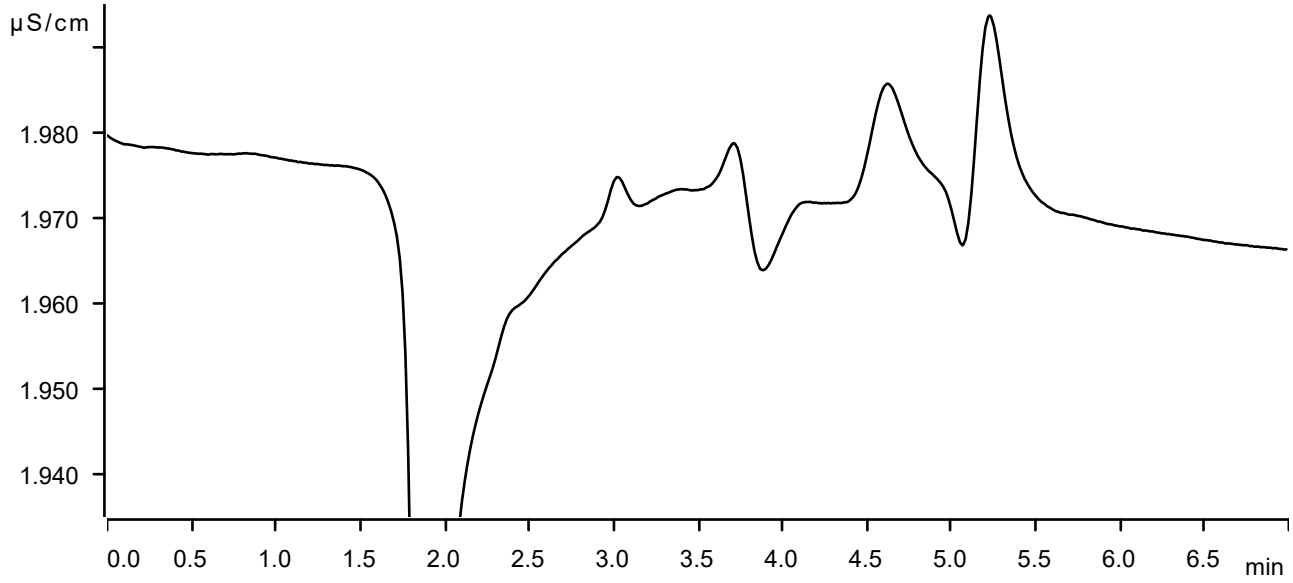
2023-07-21 10:22:33

Injection Time **2023-07-20 12:25:30 UTC-4**

Sample data

Ident	3697388	
Sample type	Sample	
Position	120	
Injections	1	
Injection counter	1	
Volume	20	µL
Dilution	1	
Sample amount	1	
Comments (Info 2)	MB	
Analyst (Info 3)	J1W	
Instrument (Info 4)	IC-12	

Anions



F Concentration on Column	invalid	ppm
Cl Concentration on Column	invalid	ppm
NO2 Concentration on Column	invalid	ppm
Br Concentration on Column	invalid	ppm
NO3 Concentration on Column	invalid	ppm
SO4 Concentration on Column	invalid	ppm

MagIC Net

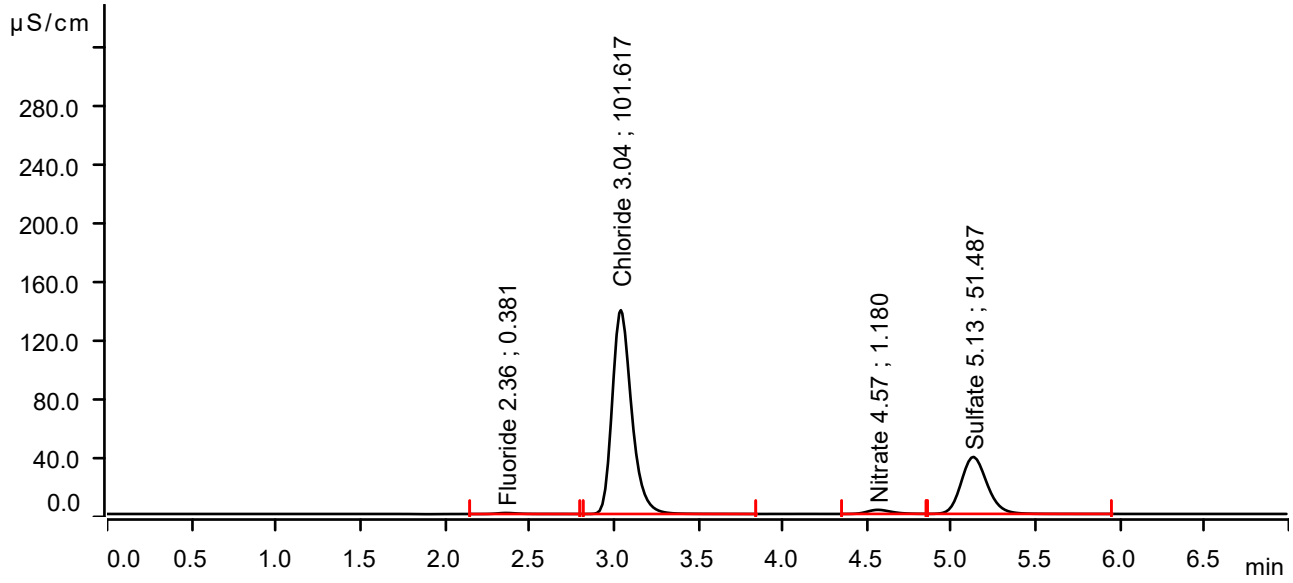
2023-07-21 10:22:33

Injection Time **2023-07-20 12:35:52 UTC-4**

Sample data

Ident	3313834001	
Sample type	Sample	
Position	24	
Injections	1	
Injection counter	1	
Volume	20	µL
Dilution	2	
Sample amount	1	
Comments (Info 2)	FILT	
Analyst (Info 3)	J1W	
Instrument (Info 4)	IC-12	

Anions



Peak number	Component name	Retention time	Area	Height	Concentration
		min	(µS/cm) x min	µS/cm	ppm
1	Fluoride	2.363	0.1012	0.697	0.381
2	Chloride	3.043	18.5788	139.243	101.617
3	Nitrate	4.565	0.4577	2.787	1.180
4	Sulfate	5.130	6.9151	38.890	51.487

F Concentration on Column	0.191	ppm
Cl Concentration on Column	50.808	ppm
NO2 Concentration on Column	invalid	ppm
Br Concentration on Column	invalid	ppm
NO3 Concentration on Column	0.590	ppm
SO4 Concentration on Column	25.743	ppm

ALS

MagIC Net

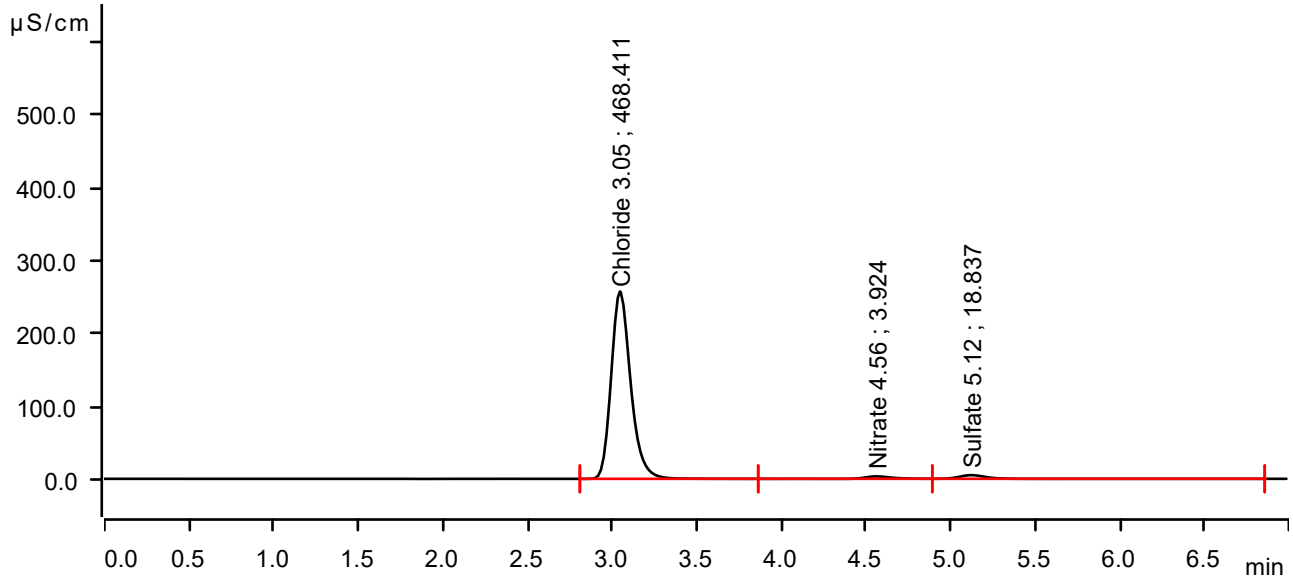
2023-07-21 10:22:34

Injection Time **2023-07-20 12:46:22 UTC-4**

Sample data

Ident	3313839001	
Sample type	Sample	
Position	25	
Injections	1	
Injection counter	1	
Volume	20	µL
Dilution	5	
Sample amount	1	
Comments (Info 2)	FILT	
Analyst (Info 3)	J1W	
Instrument (Info 4)	IC-12	

Anions



Peak number	Component name	Retention time	Area	Height	Concentration
		min	(µS/cm) x min	µS/cm	ppm
1	Chloride	3.047	34.2259	256.080	468.411
2	Nitrate	4.562	0.6282	3.325	3.924
3	Sulfate	5.122	0.9299	5.025	18.837

F Concentration on Column	invalid	ppm
Cl Concentration on Column	93.682	ppm
NO2 Concentration on Column	invalid	ppm
Br Concentration on Column	invalid	ppm
NO3 Concentration on Column	0.785	ppm
SO4 Concentration on Column	3.767	ppm

ALS

MagIC Net

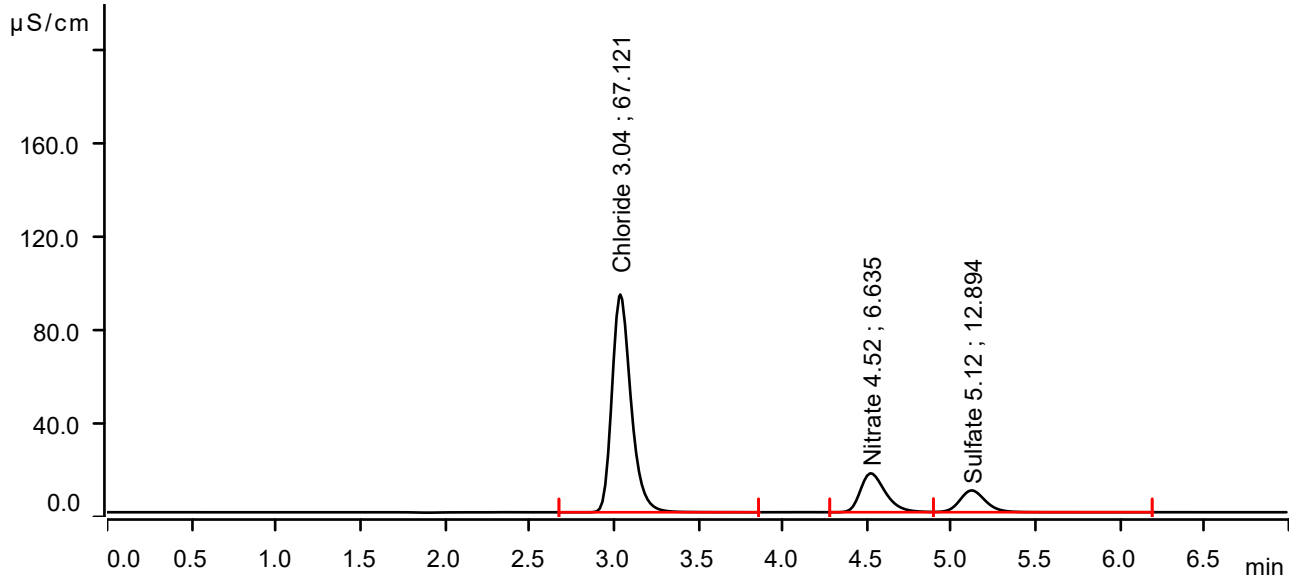
2023-07-21 10:22:35

Injection Time **2023-07-20 12:56:51 UTC-4**

Sample data

Ident	3313851001	
Sample type	Sample	
Position	26	
Injections	1	
Injection counter	1	
Volume	20	µL
Dilution	2	
Sample amount	1	
Comments (Info 2)	FILT	
Analyst (Info 3)	J1W	
Instrument (Info 4)	IC-12	

Anions



Peak number	Component name	Retention time	Area	Height	Concentration
		min	(µS/cm) x min	µS/cm	ppm
1	Chloride	3.040	12.2540	93.522	67.121
2	Nitrate	4.523	2.8704	16.692	6.635
3	Sulfate	5.120	1.6623	9.367	12.894

F Concentration on Column	invalid	ppm
Cl Concentration on Column	33.561	ppm
NO2 Concentration on Column	invalid	ppm
Br Concentration on Column	invalid	ppm
NO3 Concentration on Column	3.318	ppm
SO4 Concentration on Column	6.447	ppm

ALS

MagIC Net

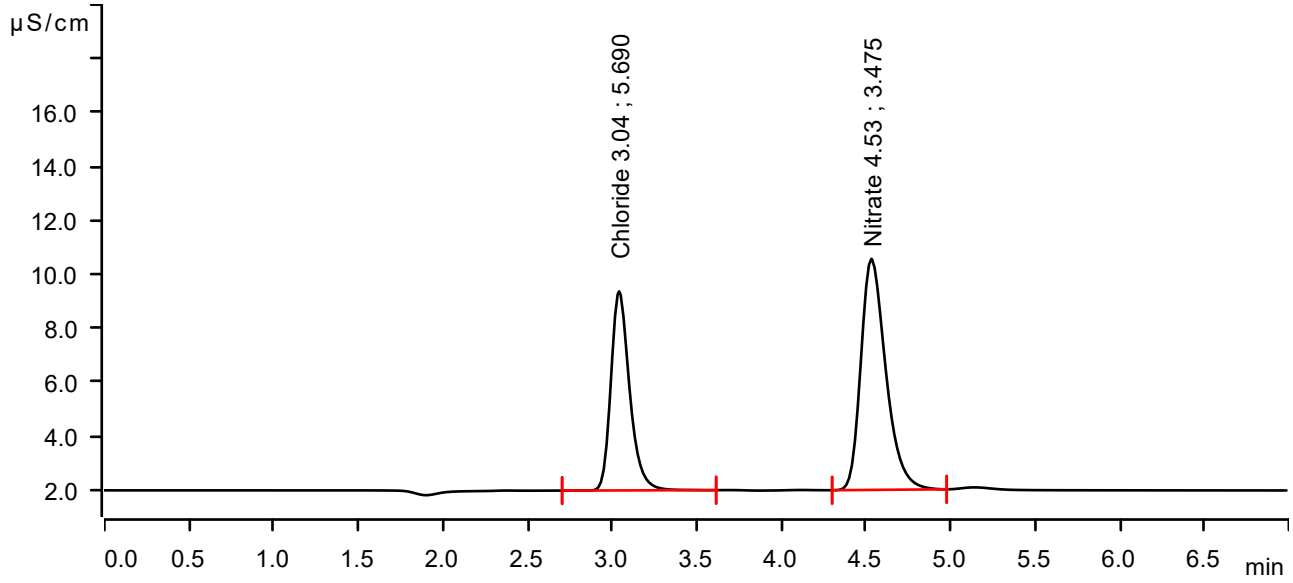
2023-07-21 10:22:36

Injection Time **2023-07-20 13:07:21 UTC-4**

Sample data

Ident	3313851002	
Sample type	Sample	
Position	27	
Injections	1	
Injection counter	1	
Volume	20	µL
Dilution	2	
Sample amount	1	
Comments (Info 2)	FILT	
Analyst (Info 3)	J1W	
Instrument (Info 4)	IC-12	

Anions



Peak number	Component name	Retention time	Area	Height	Concentration
		min	(µS/cm) x min	µS/cm	ppm
1	Chloride	3.042	0.9476	7.385	5.690
2	Nitrate	4.532	1.4666	8.570	3.475

F Concentration on Column	invalid	ppm
Cl Concentration on Column	2.845	ppm
NO2 Concentration on Column	invalid	ppm
Br Concentration on Column	invalid	ppm
NO3 Concentration on Column	1.738	ppm
SO4 Concentration on Column	invalid	ppm

MagIC Net

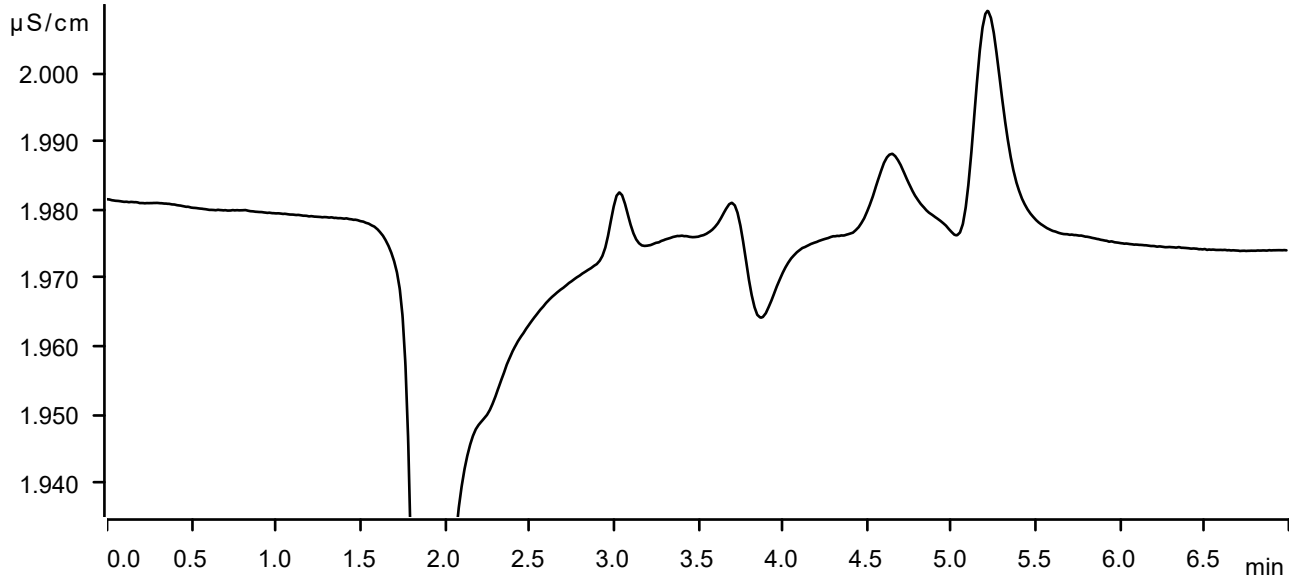
2023-07-21 10:22:37

Injection Time **2023-07-20 13:17:50 UTC-4**

Sample data

Ident	3313851003	
Sample type	Sample	
Position	28	
Injections	1	
Injection counter	1	
Volume	20	µL
Dilution	2	
Sample amount	1	
Comments (Info 2)	FILT	
Analyst (Info 3)	J1W	
Instrument (Info 4)	IC-12	

Anions



F Concentration on Column	invalid	ppm
Cl Concentration on Column	invalid	ppm
NO2 Concentration on Column	invalid	ppm
Br Concentration on Column	invalid	ppm
NO3 Concentration on Column	invalid	ppm
SO4 Concentration on Column	invalid	ppm

MagIC Net

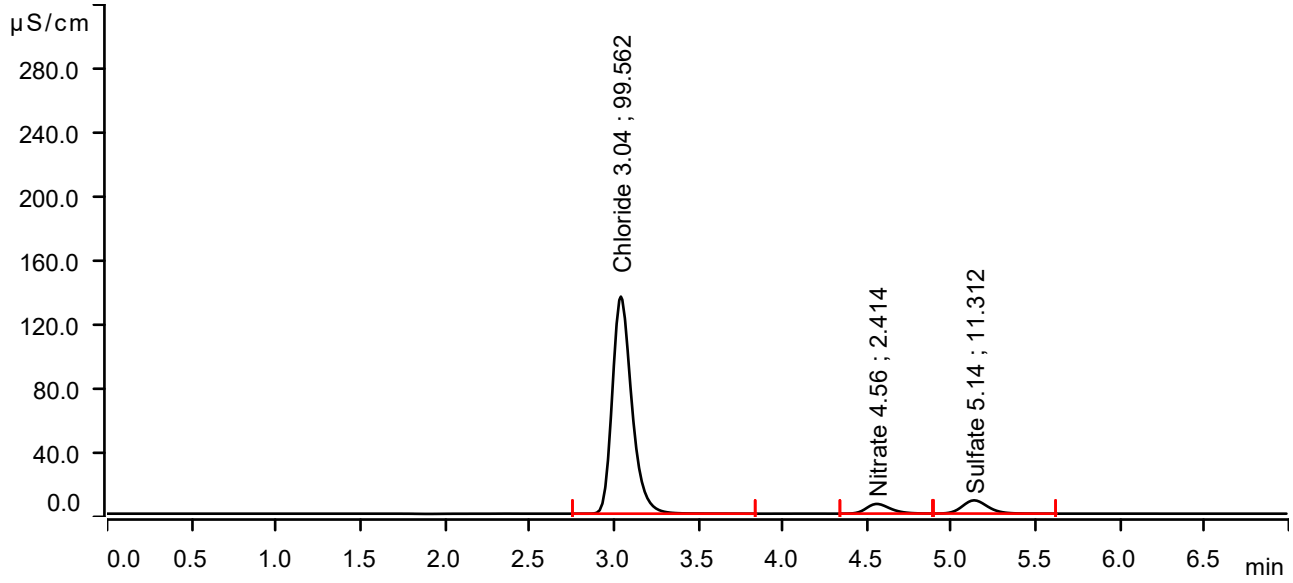
2023-07-21 10:22:38

Injection Time **2023-07-20 13:28:19 UTC-4**

Sample data

Ident	3313851005	
Sample type	Sample	
Position	29	
Injections	1	
Injection counter	1	
Volume	20	µL
Dilution	2	
Sample amount	1	
Comments (Info 2)	FILT	
Analyst (Info 3)	J1W	
Instrument (Info 4)	IC-12	

Anions



Peak number	Component name	Retention time	Area	Height	Concentration
		min	(µS/cm) x min	µS/cm	ppm
1	Chloride	3.043	18.2025	135.617	99.562
2	Nitrate	4.558	0.9988	6.046	2.414
3	Sulfate	5.135	1.4462	8.267	11.312

F Concentration on Column	invalid	ppm
Cl Concentration on Column	49.781	ppm
NO2 Concentration on Column	invalid	ppm
Br Concentration on Column	invalid	ppm
NO3 Concentration on Column	1.207	ppm
SO4 Concentration on Column	5.656	ppm

MagIC Net

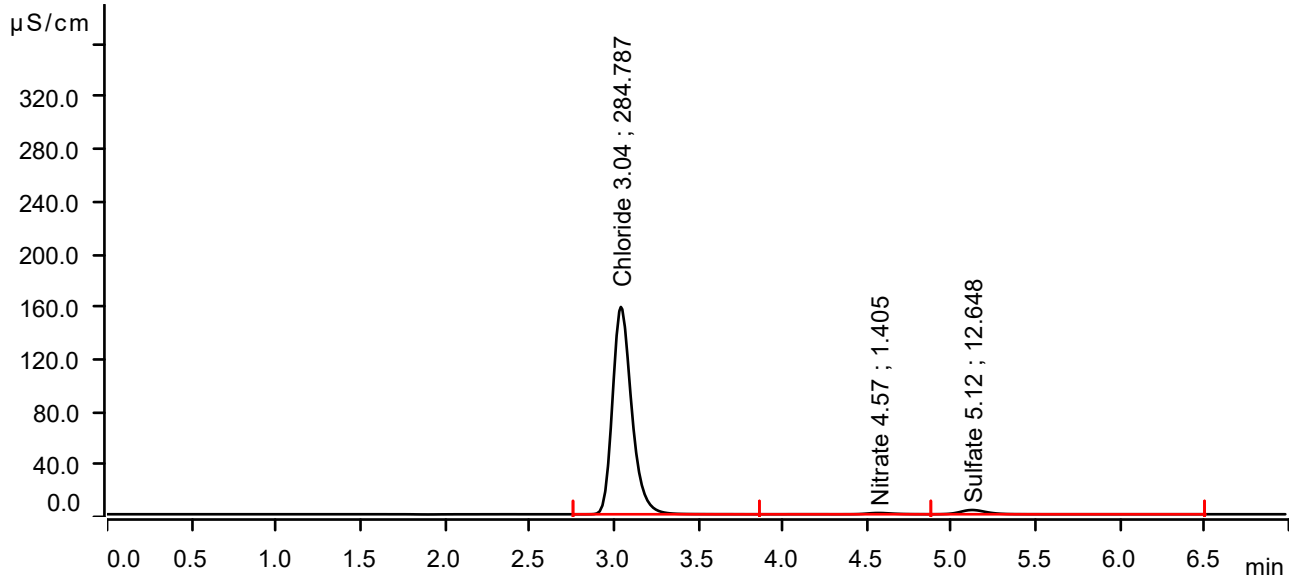
2023-07-21 10:22:39

Injection Time 2023-07-20 13:38:47 UTC-4

Sample data

Ident	3313851006	
Sample type	Sample	
Position	30	
Injections	1	
Injection counter	1	
Volume	20	µL
Dilution	5	
Sample amount	1	
Comments (Info 2)	FILT	
Analyst (Info 3)	J1W	
Instrument (Info 4)	IC-12	

Anions



Peak number	Component name	Retention time	Area	Height	Concentration
		min	(µS/cm) x min	µS/cm	ppm
1	Chloride	3.043	20.8295	157.842	284.787
2	Nitrate	4.568	0.1873	0.971	1.405
3	Sulfate	5.123	0.5913	3.237	12.648

F Concentration on Column	invalid	ppm
Cl Concentration on Column	56.957	ppm
NO2 Concentration on Column	invalid	ppm
Br Concentration on Column	invalid	ppm
NO3 Concentration on Column	0.281	ppm
SO4 Concentration on Column	2.530	ppm

MagIC Net

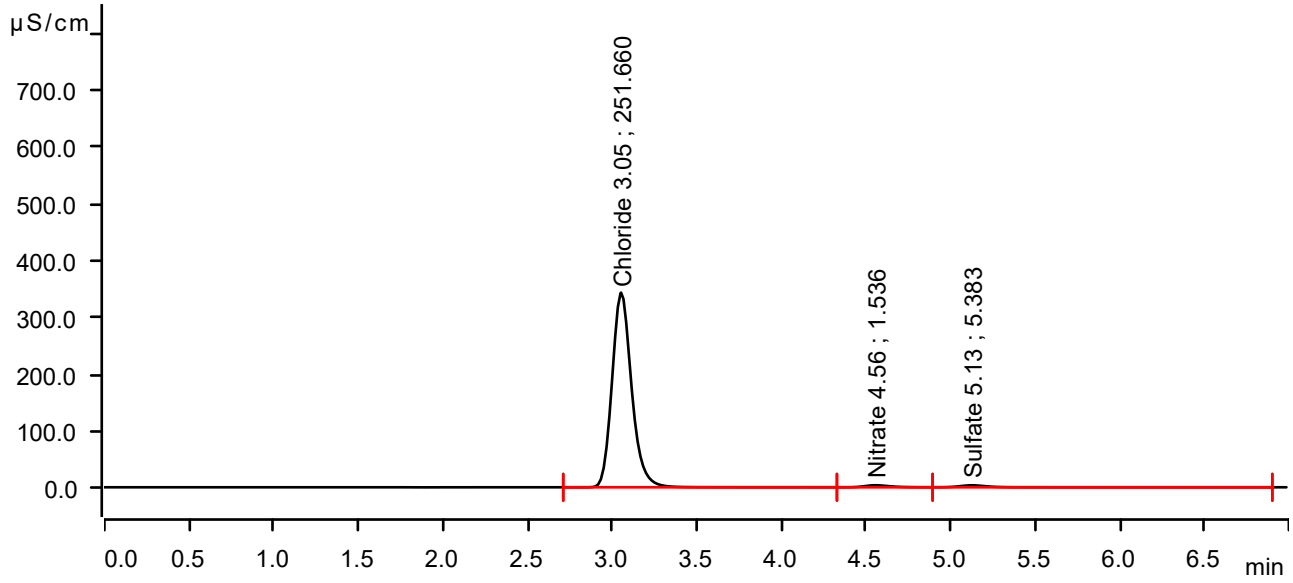
2023-07-21 10:22:40

Injection Time **2023-07-20 13:49:16 UTC-4**

Sample data

Ident	3313851007	
Sample type	Sample	
Position	31	
Injections	1	
Injection counter	1	
Volume	20	µL
Dilution	2	
Sample amount	1	
Comments (Info 2)	FILT	
Analyst (Info 3)	J1W	
Instrument (Info 4)	IC-12	

Anions



Peak number	Component name	Retention time	Area	Height	Concentration
		min	(µS/cm) x min	µS/cm	ppm
1	Chloride	3.053	45.8883	341.990	251.660
2	Nitrate	4.557	0.6134	3.528	1.536
3	Sulfate	5.125	0.6355	3.429	5.383

F Concentration on Column	invalid	ppm
Cl Concentration on Column	125.830	ppm
NO2 Concentration on Column	invalid	ppm
Br Concentration on Column	invalid	ppm
NO3 Concentration on Column	0.768	ppm
SO4 Concentration on Column	2.691	ppm

MagIC Net

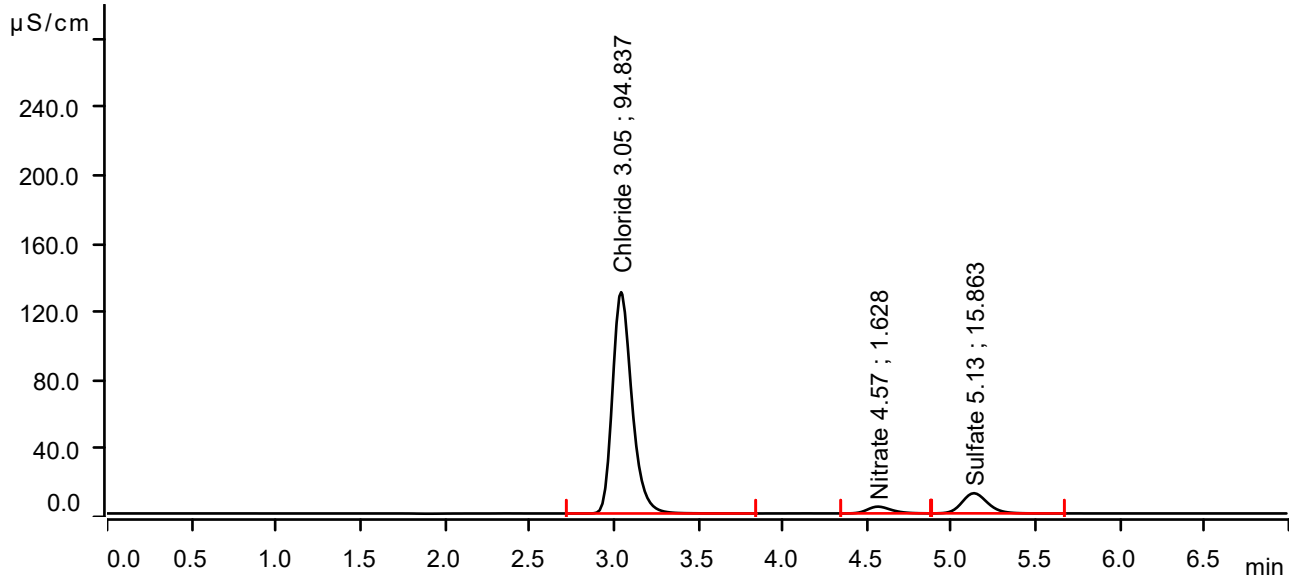
2023-07-21 10:22:41

Injection Time **2023-07-20 13:59:44 UTC-4**

Sample data

Ident	3313851008	
Sample type	Sample	
Position	32	
Injections	1	
Injection counter	1	
Volume	20	µL
Dilution	2	
Sample amount	1	
Comments (Info 2)	FILT	
Analyst (Info 3)	J1W	
Instrument (Info 4)	IC-12	

Anions



Peak number	Component name	Retention time	Area	Height	Concentration
		min	(µS/cm) x min	µS/cm	ppm
1	Chloride	3.045	17.3371	129.589	94.837
2	Nitrate	4.565	0.6538	3.957	1.628
3	Sulfate	5.133	2.0678	11.798	15.863

F Concentration on Column	invalid	ppm
Cl Concentration on Column	47.419	ppm
NO2 Concentration on Column	invalid	ppm
Br Concentration on Column	invalid	ppm
NO3 Concentration on Column	0.814	ppm
SO4 Concentration on Column	7.931	ppm

ALS

MagIC Net

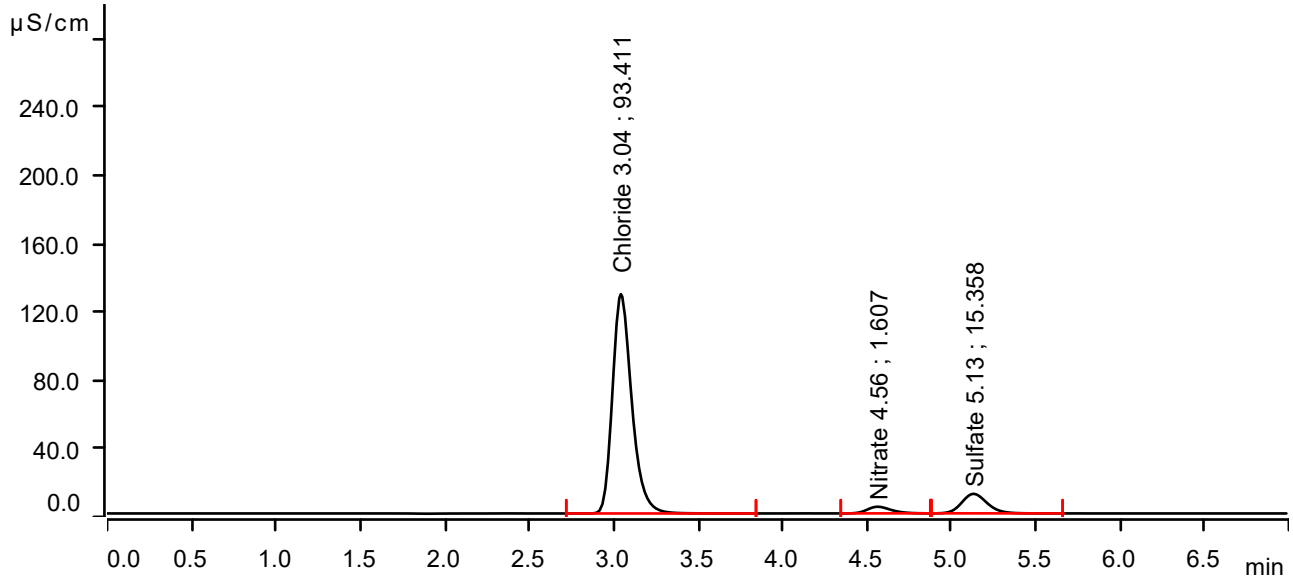
2023-07-21 10:22:42

Injection Time **2023-07-20 14:10:12 UTC-4**

Sample data

Ident	3313851009	
Sample type	Sample	
Position	33	
Injections	1	
Injection counter	1	
Volume	20	µL
Dilution	2	
Sample amount	1	
Comments (Info 2)	FILT	
Analyst (Info 3)	J1W	
Instrument (Info 4)	IC-12	

Anions



Peak number	Component name	Retention time	Area	Height	Concentration
		min	(µS/cm) x min	µS/cm	ppm
1	Chloride	3.043	17.0759	128.479	93.411
2	Nitrate	4.563	0.6446	3.903	1.607
3	Sulfate	5.132	1.9989	11.437	15.358

F Concentration on Column	invalid	ppm
Cl Concentration on Column	46.706	ppm
NO2 Concentration on Column	invalid	ppm
Br Concentration on Column	invalid	ppm
NO3 Concentration on Column	0.804	ppm
SO4 Concentration on Column	7.679	ppm

ALS

MagIC Net

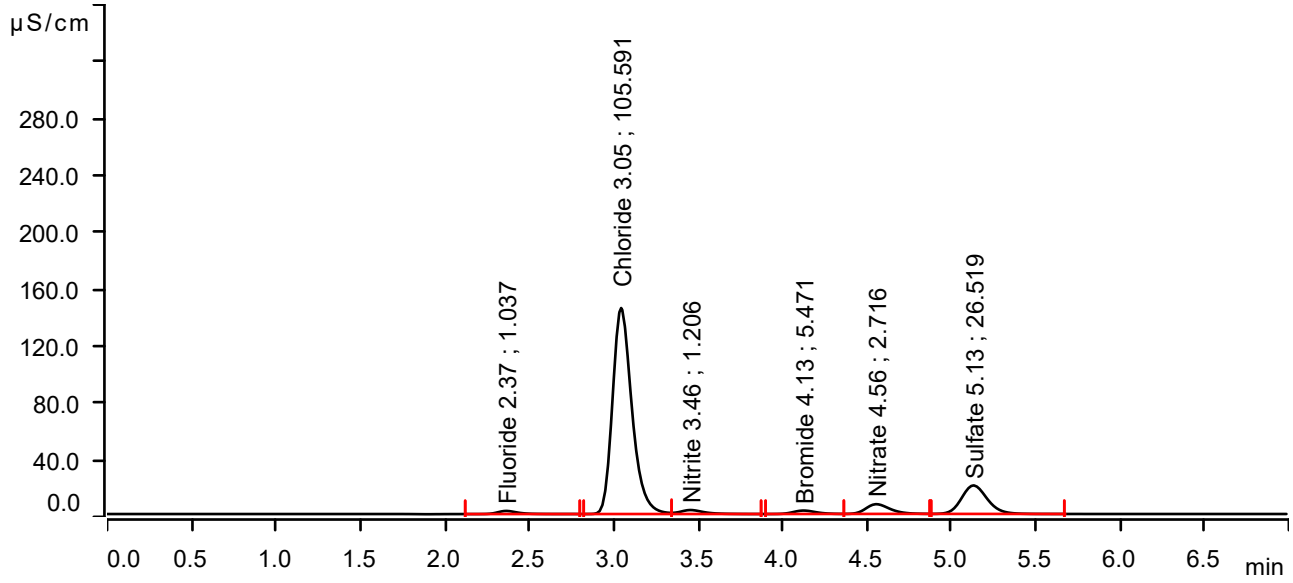
2023-07-21 10:22:43

Injection Time **2023-07-20 14:20:39 UTC-4**

Sample data

Ident	3697389	
Sample type	Spiking 1	
Position	34	
Injections	1	
Injection counter	1	
Volume	20	µL
Dilution	2	
Sample amount	1	
Comments (Info 2)	MS, FILT	
Analyst (Info 3)	J1W	
Instrument (Info 4)	IC-12	

Anions



Peak number	Component name	Retention time	Area	Height	Concentration
		min	(µS/cm) x min	µS/cm	ppm
1	Fluoride	2.365	0.2968	2.184	1.037
2	Chloride	3.045	19.3064	144.773	105.591
3	Nitrite	3.455	0.4535	2.799	1.206
4	Bromide	4.125	0.3730	2.395	5.471
5	Nitrate	4.555	1.1320	6.834	2.716
6	Sulfate	5.130	3.5212	19.998	26.519

F Concentration on Column	0.518	ppm
Cl Concentration on Column	52.795	ppm
NO2 Concentration on Column	0.603	ppm
Br Concentration on Column	2.736	ppm
NO3 Concentration on Column	1.358	ppm
SO4 Concentration on Column	13.259	ppm

MagIC Net

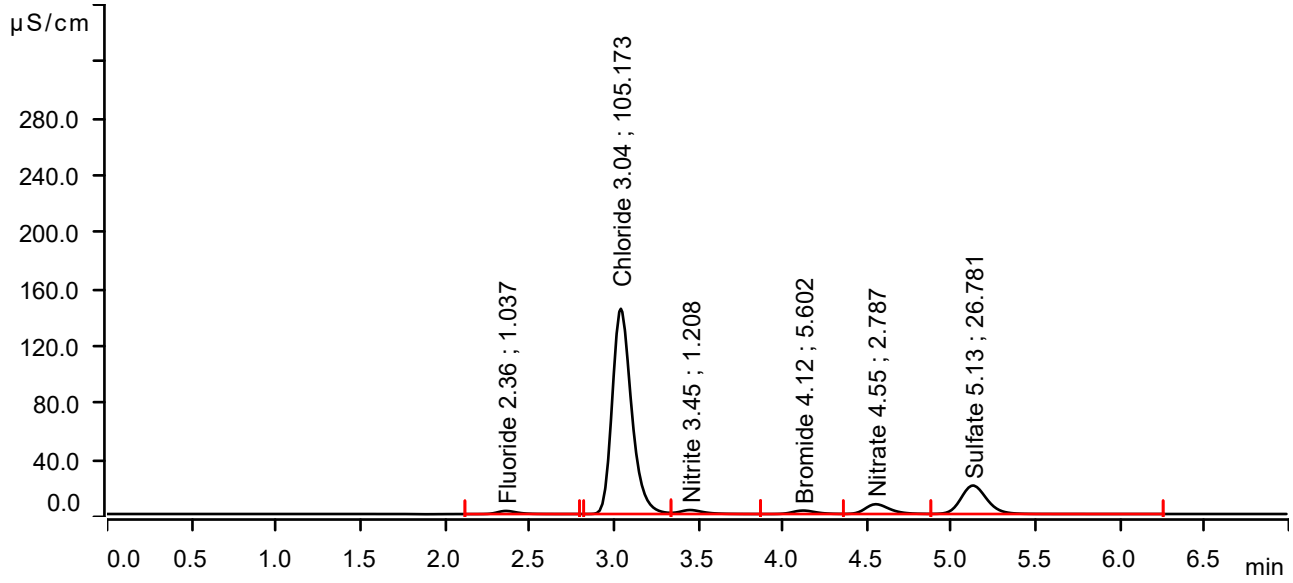
2023-07-21 10:22:44

Injection Time **2023-07-20 14:31:07 UTC-4**

Sample data

Ident	3697390	
Sample type	Spiking 1	
Position	35	
Injections	1	
Injection counter	1	
Volume	20	µL
Dilution	2	
Sample amount	1	
Comments (Info 2)	MSD, FILT	
Analyst (Info 3)	J1W	
Instrument (Info 4)	IC-12	

Anions



Peak number	Component name	Retention time	Area	Height	Concentration
		min	(µS/cm) x min	µS/cm	ppm
1	Fluoride	2.363	0.2970	2.180	1.037
2	Chloride	3.043	19.2299	144.242	105.173
3	Nitrite	3.453	0.4542	2.793	1.208
4	Bromide	4.122	0.3833	2.416	5.602
5	Nitrate	4.553	1.1630	6.873	2.787
6	Sulfate	5.128	3.5568	20.003	26.781

F Concentration on Column	0.519	ppm
Cl Concentration on Column	52.586	ppm
NO2 Concentration on Column	0.604	ppm
Br Concentration on Column	2.801	ppm
NO3 Concentration on Column	1.393	ppm
SO4 Concentration on Column	13.390	ppm

MagIC Net

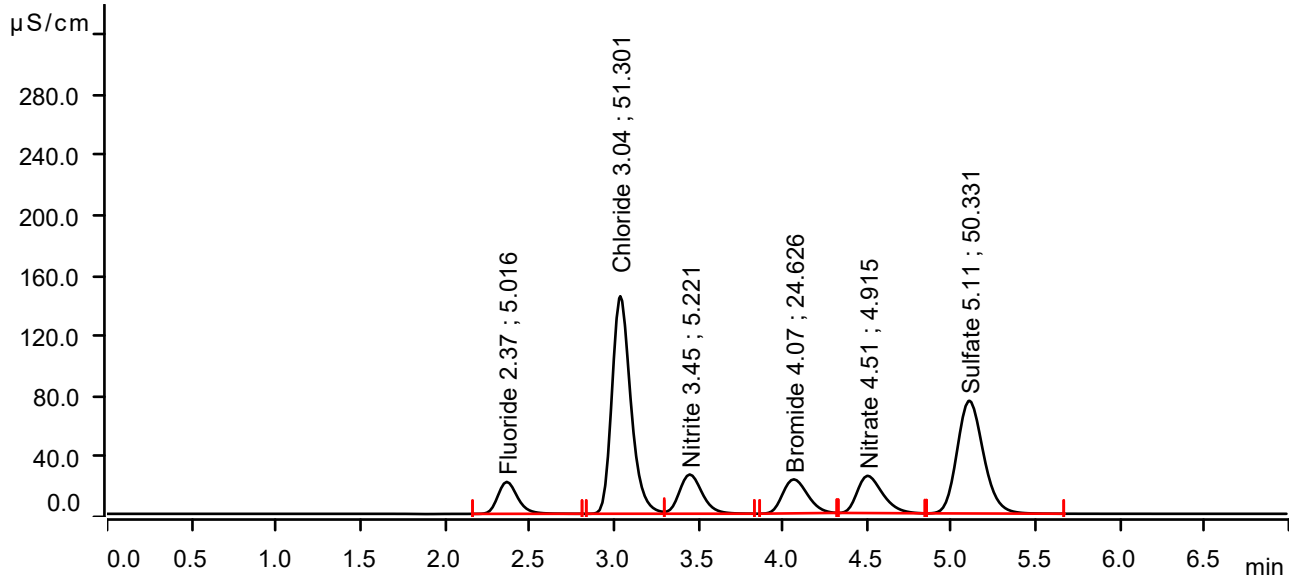
2023-07-21 10:22:45

Injection Time **2023-07-20 14:41:34 UTC-4**

Sample data

Ident	3697391	
Sample type	Check standard 3	
Position	131	
Injections	1	
Injection counter	1	
Volume	20	µL
Dilution	1	
Sample amount	1	
Comments (Info 2)	CCV	
Analyst (Info 3)	J1W	
Instrument (Info 4)	IC-12	

Anions



Peak number	Component name	Retention time min	Area (µS/cm) x min	Height µS/cm	Concentration ppm
1	Fluoride	2.368	2.8870	21.175	5.016
2	Chloride	3.040	18.7594	144.394	51.301
3	Nitrite	3.452	4.0852	26.016	5.221
4	Bromide	4.067	3.8451	22.544	24.626
5	Nitrate	4.505	4.3067	24.688	4.915
6	Sulfate	5.107	13.5527	74.840	50.331

F Concentration on Column	5.016	ppm
Cl Concentration on Column	51.301	ppm
NO2 Concentration on Column	5.221	ppm
Br Concentration on Column	24.626	ppm
NO3 Concentration on Column	4.915	ppm
SO4 Concentration on Column	50.331	ppm

ALS

MagIC Net

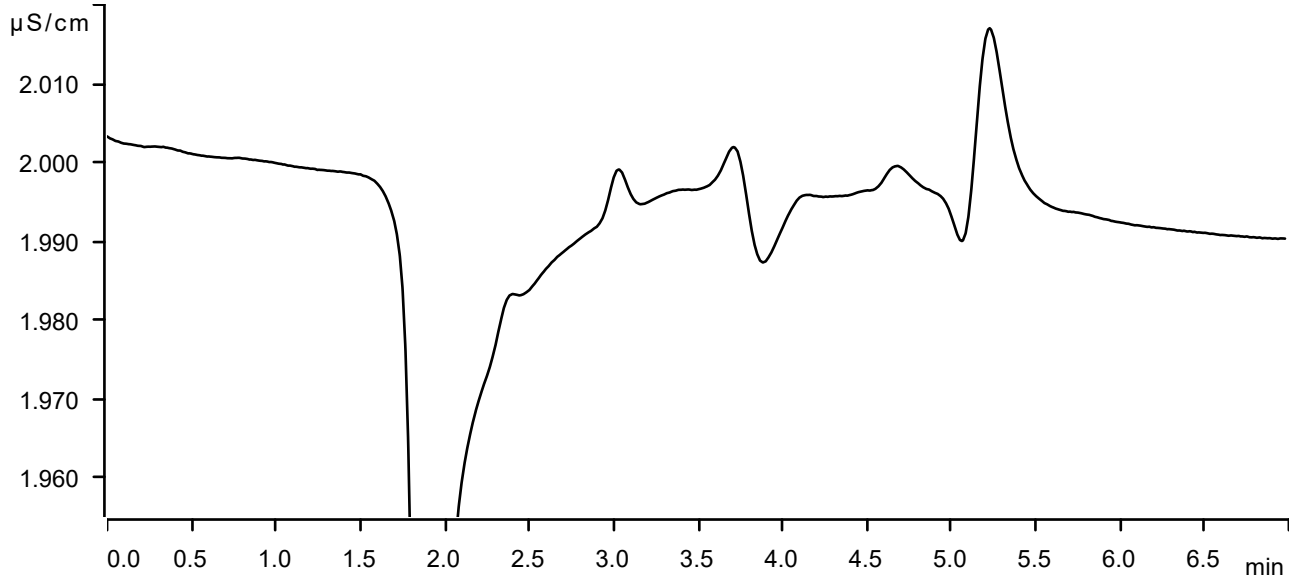
2023-07-21 10:22:47

Injection Time **2023-07-20 14:52:01 UTC-4**

Sample data

Ident	3697392	
Sample type	Sample	
Position	120	
Injections	1	
Injection counter	1	
Volume	20	µL
Dilution	1	
Sample amount	1	
Comments (Info 2)	MB	
Analyst (Info 3)	J1W	
Instrument (Info 4)	IC-12	

Anions



F Concentration on Column	invalid	ppm
Cl Concentration on Column	invalid	ppm
NO2 Concentration on Column	invalid	ppm
Br Concentration on Column	invalid	ppm
NO3 Concentration on Column	invalid	ppm
SO4 Concentration on Column	invalid	ppm

ALS

MagIC Net

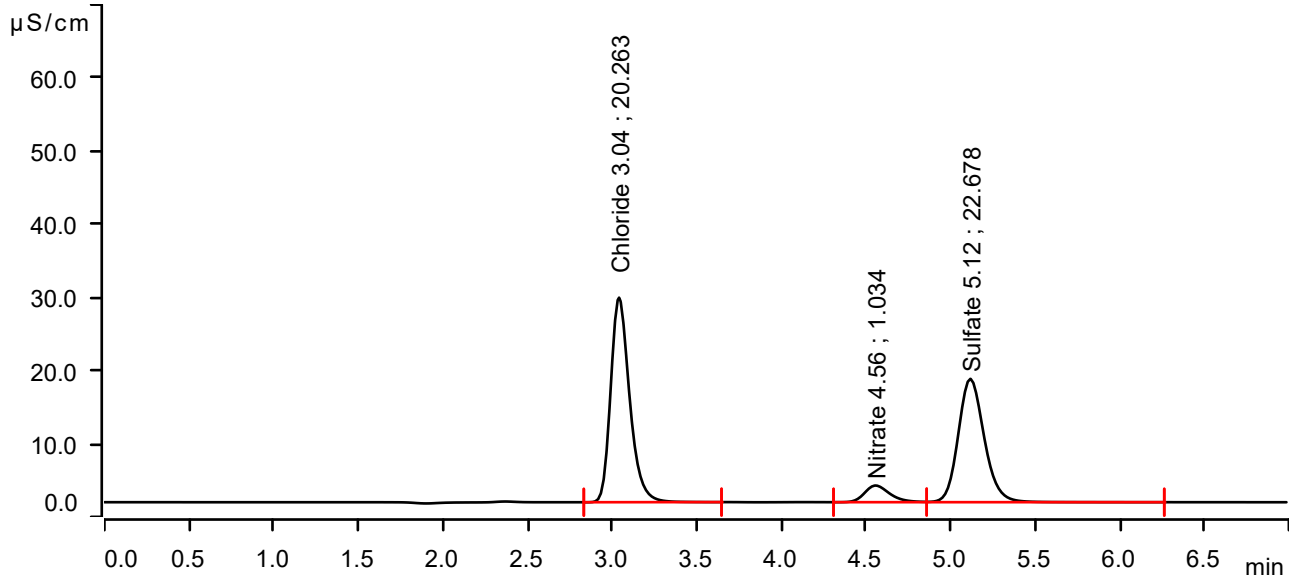
2023-07-21 10:22:47

Injection Time **2023-07-20 15:02:23 UTC-4**

Sample data

Ident	3313883001	
Sample type	Sample	
Position	36	
Injections	1	
Injection counter	1	
Volume	20	µL
Dilution	2	
Sample amount	1	
Comments (Info 2)	FILT	
Analyst (Info 3)	J1W	
Instrument (Info 4)	IC-12	

Anions



Peak number	Component name	Retention time	Area	Height	Concentration
		min	(µS/cm) x min	µS/cm	ppm
1	Chloride	3.042	3.6347	27.955	20.263
2	Nitrate	4.557	0.3937	2.276	1.034
3	Sulfate	5.117	2.9976	16.853	22.678

F Concentration on Column	invalid	ppm
Cl Concentration on Column	10.132	ppm
NO2 Concentration on Column	invalid	ppm
Br Concentration on Column	invalid	ppm
NO3 Concentration on Column	0.517	ppm
SO4 Concentration on Column	11.339	ppm

ALS

MagIC Net

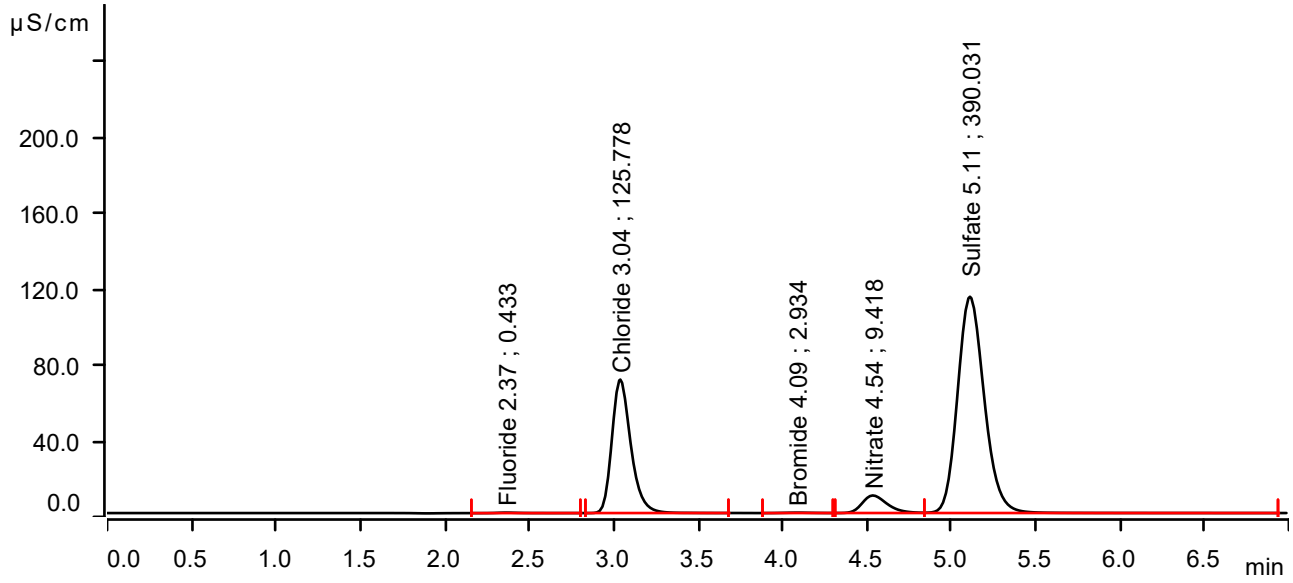
2023-07-21 10:22:48

Injection Time **2023-07-20 15:12:50 UTC-4**

Sample data

Ident	3313883002	
Sample type	Sample	
Position	37	
Injections	1	
Injection counter	1	
Volume	20	µL
Dilution	5	
Sample amount	1	
Comments (Info 2)	FILT	
Analyst (Info 3)	J1W	
Instrument (Info 4)	IC-12	

Anions



Peak number	Component name	Retention time min	Area (µS/cm) x min	Height µS/cm	Concentration ppm
1	Fluoride	2.365	0.0389	0.259	0.433
2	Chloride	3.040	9.1656	70.381	125.778
3	Bromide	4.085	0.0378	0.211	2.934
4	Nitrate	4.535	1.5956	9.244	9.418
5	Sulfate	5.110	20.9498	114.019	390.031

F Concentration on Column	0.087	ppm
Cl Concentration on Column	25.156	ppm
NO2 Concentration on Column	invalid	ppm
Br Concentration on Column	0.587	ppm
NO3 Concentration on Column	1.884	ppm
SO4 Concentration on Column	78.006	ppm

MagIC Net

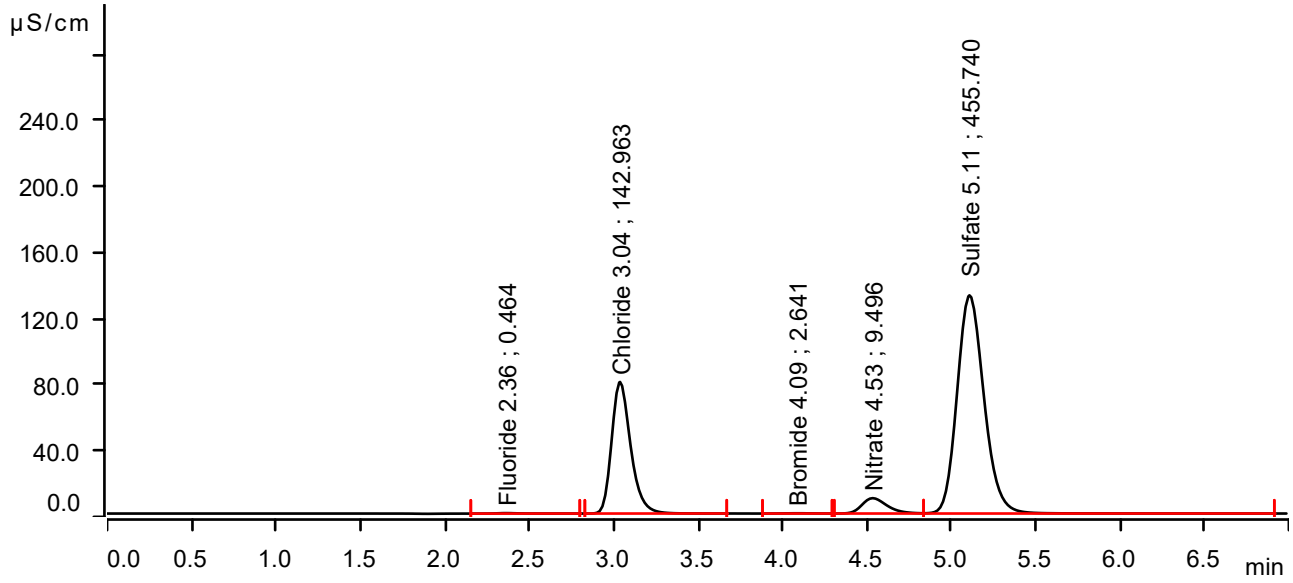
2023-07-21 10:22:49

Injection Time 2023-07-20 15:23:16 UTC-4

Sample data

Ident	3313883003	
Sample type	Sample	
Position	38	
Injections	1	
Injection counter	1	
Volume	20	µL
Dilution	5	
Sample amount	1	
Comments (Info 2)	FILT	
Analyst (Info 3)	J1W	
Instrument (Info 4)	IC-12	

Anions



Peak number	Component name	Retention time	Area	Height	Concentration
		min	(µS/cm) x min	µS/cm	ppm
1	Fluoride	2.363	0.0426	0.283	0.464
2	Chloride	3.038	10.4290	79.641	142.963
3	Bromide	4.087	0.0287	0.159	2.641
4	Nitrate	4.533	1.6094	9.288	9.496
5	Sulfate	5.107	24.4348	132.052	455.740

F Concentration on Column	0.093	ppm
Cl Concentration on Column	28.593	ppm
NO2 Concentration on Column	invalid	ppm
Br Concentration on Column	0.528	ppm
NO3 Concentration on Column	1.899	ppm
SO4 Concentration on Column	91.148	ppm

MagIC Net

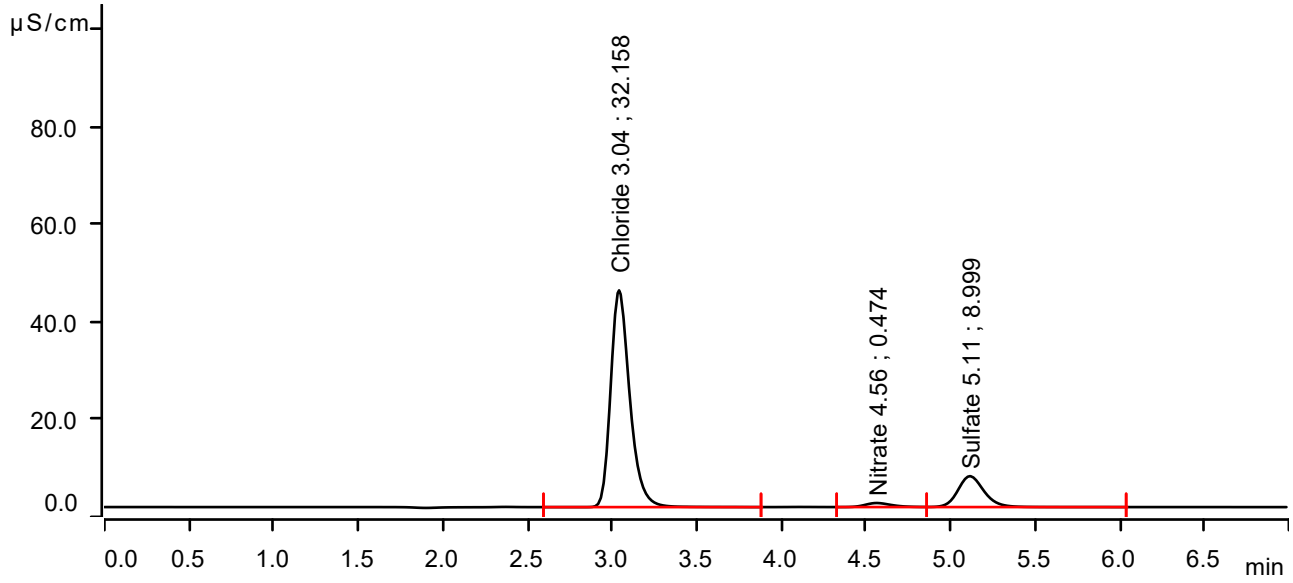
2023-07-21 10:22:51

Injection Time **2023-07-20 15:33:42 UTC-4**

Sample data

Ident	3313910001	
Sample type	Sample	
Position	39	
Injections	1	
Injection counter	1	
Volume	20	µL
Dilution	2	
Sample amount	1	
Comments (Info 2)	FILT	
Analyst (Info 3)	J1W	
Instrument (Info 4)	IC-12	

Anions



Peak number	Component name	Retention time	Area	Height	Concentration
		min	(µS/cm) x min	µS/cm	ppm
1	Chloride	3.042	5.8257	44.435	32.158
2	Nitrate	4.563	0.1488	0.830	0.474
3	Sulfate	5.113	1.1300	6.331	8.999

F Concentration on Column	invalid	ppm
Cl Concentration on Column	16.079	ppm
NO2 Concentration on Column	invalid	ppm
Br Concentration on Column	invalid	ppm
NO3 Concentration on Column	0.237	ppm
SO4 Concentration on Column	4.499	ppm

MagIC Net

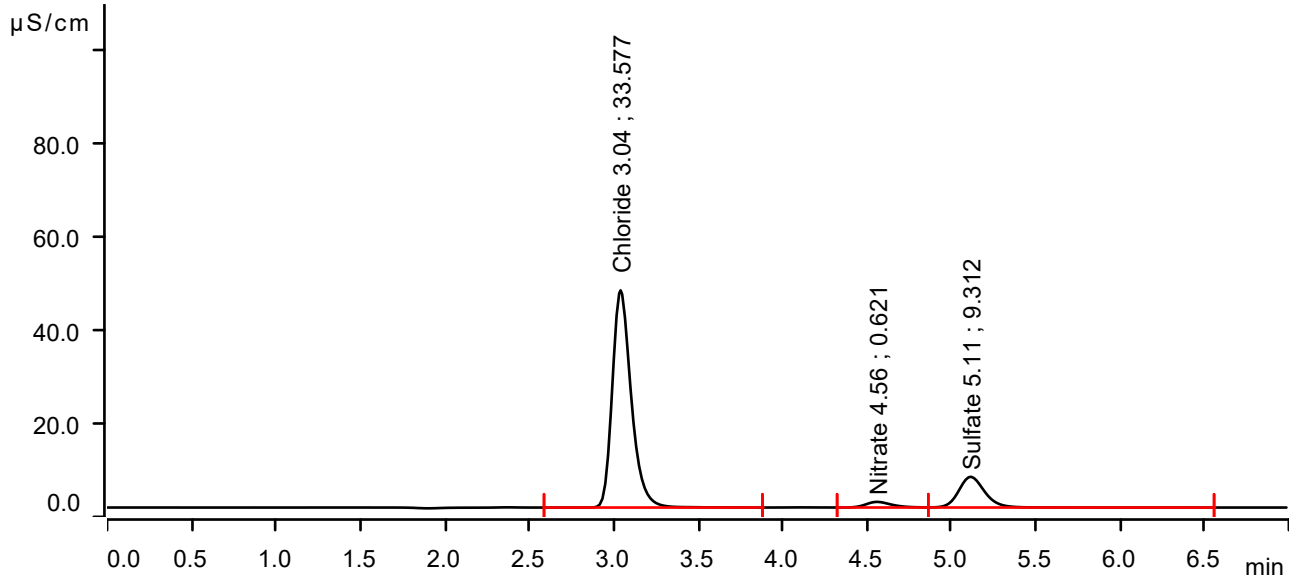
2023-07-21 10:22:52

Injection Time **2023-07-20 15:44:07 UTC-4**

Sample data

Ident	3313910002	
Sample type	Sample	
Position	40	
Injections	1	
Injection counter	1	
Volume	20	µL
Dilution	2	
Sample amount	1	
Comments (Info 2)	FILT	
Analyst (Info 3)	J1W	
Instrument (Info 4)	IC-12	

Anions



Peak number	Component name	Retention time	Area	Height	Concentration
		min	(µS/cm) x min	µS/cm	ppm
1	Chloride	3.042	6.0870	46.636	33.577
2	Nitrate	4.560	0.2129	1.204	0.621
3	Sulfate	5.113	1.1729	6.583	9.312

F Concentration on Column	invalid	ppm
Cl Concentration on Column	16.789	ppm
NO2 Concentration on Column	invalid	ppm
Br Concentration on Column	invalid	ppm
NO3 Concentration on Column	0.310	ppm
SO4 Concentration on Column	4.656	ppm

ALS

MagIC Net

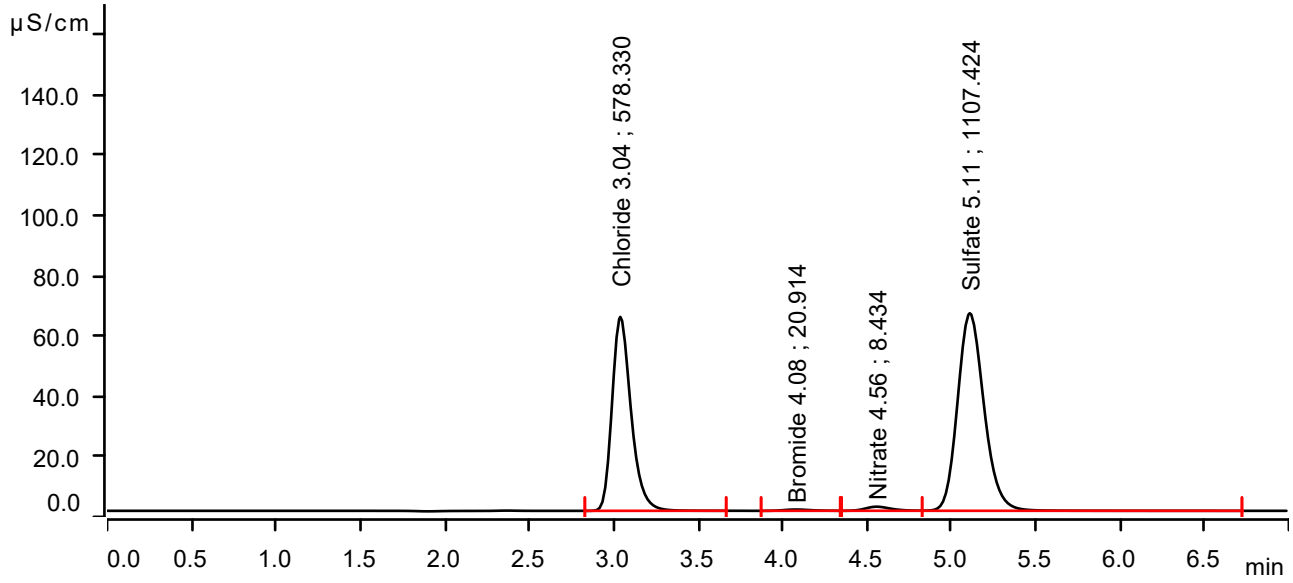
2023-07-21 10:22:53

Injection Time **2023-07-20 15:54:32 UTC-4**

Sample data

Ident	3312550002	
Sample type	Sample	
Position	41	
Injections	1	
Injection counter	1	
Volume	20	µL
Dilution	25	
Sample amount	1	
Comments (Info 2)	FILT	
Analyst (Info 3)	J1W	
Instrument (Info 4)	IC-12	

Anions



Peak number	Component name	Retention time	Area	Height	Concentration
		min	(µS/cm) x min	µS/cm	ppm
1	Chloride	3.040	8.4218	64.366	578.330
2	Bromide	4.080	0.0767	0.425	20.914
3	Nitrate	4.557	0.2365	1.355	8.434
4	Sulfate	5.108	11.9296	65.568	1107.424

F Concentration on Column	invalid	ppm
Cl Concentration on Column	23.133	ppm
NO2 Concentration on Column	invalid	ppm
Br Concentration on Column	0.837	ppm
NO3 Concentration on Column	0.337	ppm
SO4 Concentration on Column	44.297	ppm

MagIC Net

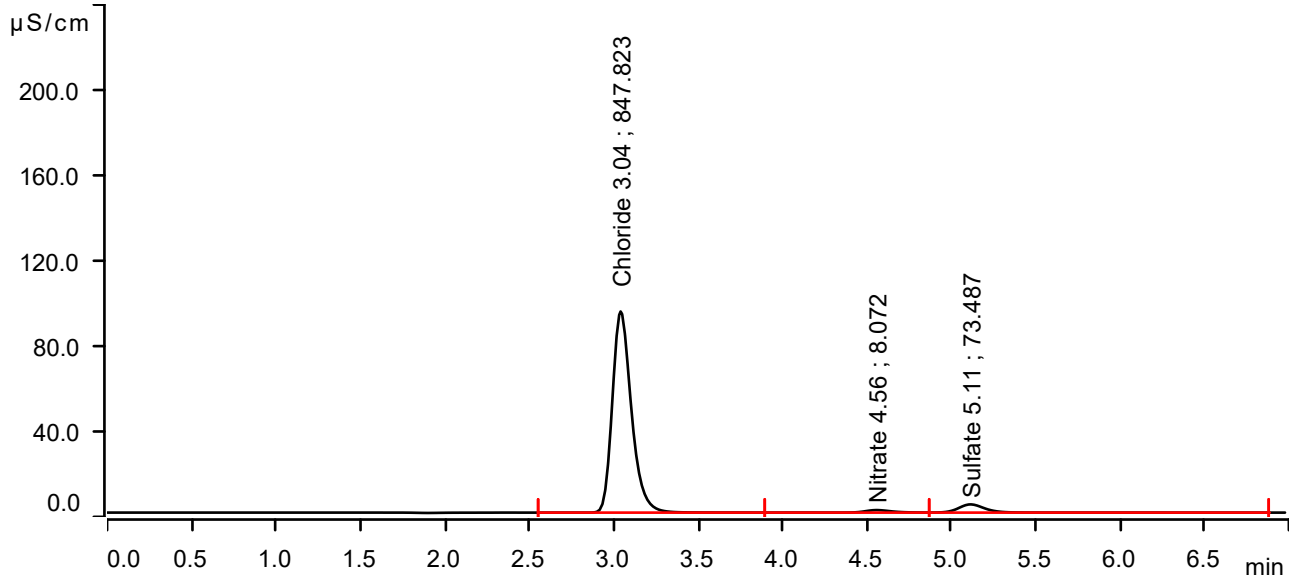
2023-07-21 10:22:54

Injection Time **2023-07-20 16:04:57 UTC-4**

Sample data

Ident	3313119001	
Sample type	Sample	
Position	42	
Injections	1	
Injection counter	1	
Volume	20	µL
Dilution	25	
Sample amount	1	
Comments (Info 2)	FILT	
Analyst (Info 3)	J1W	
Instrument (Info 4)	IC-12	

Anions



Peak number	Component name	Retention time	Area	Height	Concentration
		min	(µS/cm) x min	µS/cm	ppm
1	Chloride	3.042	12.3834	94.242	847.823
2	Nitrate	4.557	0.2238	1.183	8.072
3	Sulfate	5.113	0.7034	3.852	73.487

F Concentration on Column	invalid	ppm
Cl Concentration on Column	33.913	ppm
NO2 Concentration on Column	invalid	ppm
Br Concentration on Column	invalid	ppm
NO3 Concentration on Column	0.323	ppm
SO4 Concentration on Column	2.939	ppm

ALS

MagIC Net

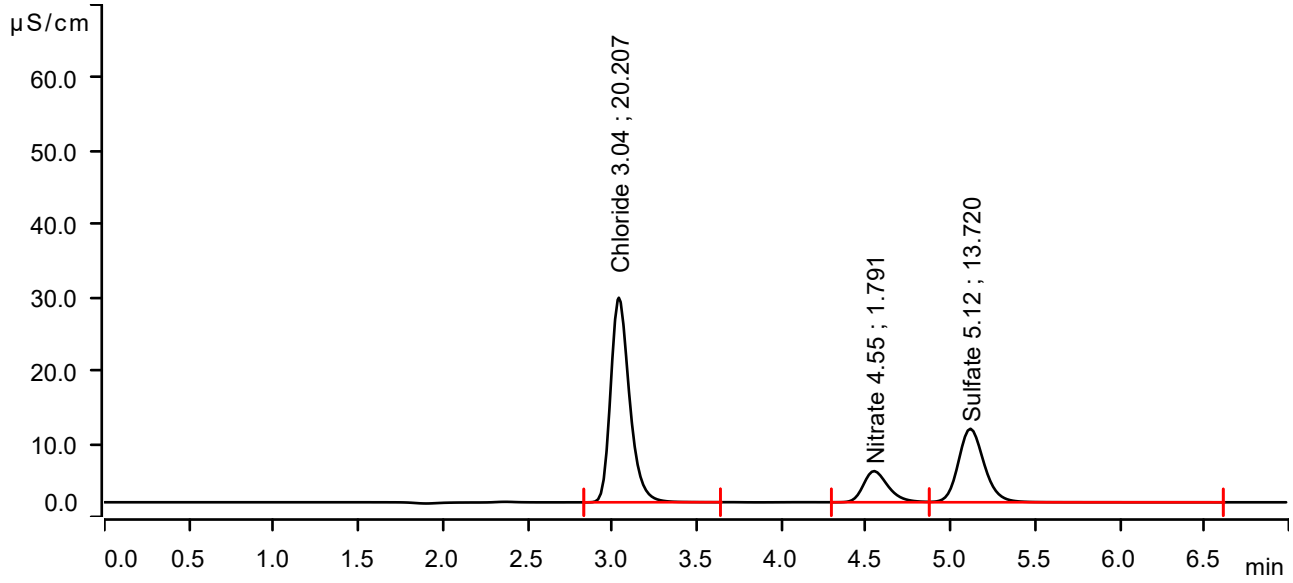
2023-07-21 10:22:55

Injection Time **2023-07-20 16:15:22 UTC-4**

Sample data

Ident	3313946002	
Sample type	Sample	
Position	43	
Injections	1	
Injection counter	1	
Volume	20	µL
Dilution	2	
Sample amount	1	
Comments (Info 2)	M	
Analyst (Info 3)	J1W	
Instrument (Info 4)	IC-12	

Anions



Peak number	Component name	Retention time	Area	Height	Concentration
		min	(µS/cm) x min	µS/cm	ppm
1	Chloride	3.040	3.6245	27.953	20.207
2	Nitrate	4.548	0.7252	4.247	1.791
3	Sulfate	5.117	1.7752	10.038	13.720

F Concentration on Column	invalid	ppm
Cl Concentration on Column	10.104	ppm
NO2 Concentration on Column	invalid	ppm
Br Concentration on Column	invalid	ppm
NO3 Concentration on Column	0.895	ppm
SO4 Concentration on Column	6.860	ppm

MagIC Net

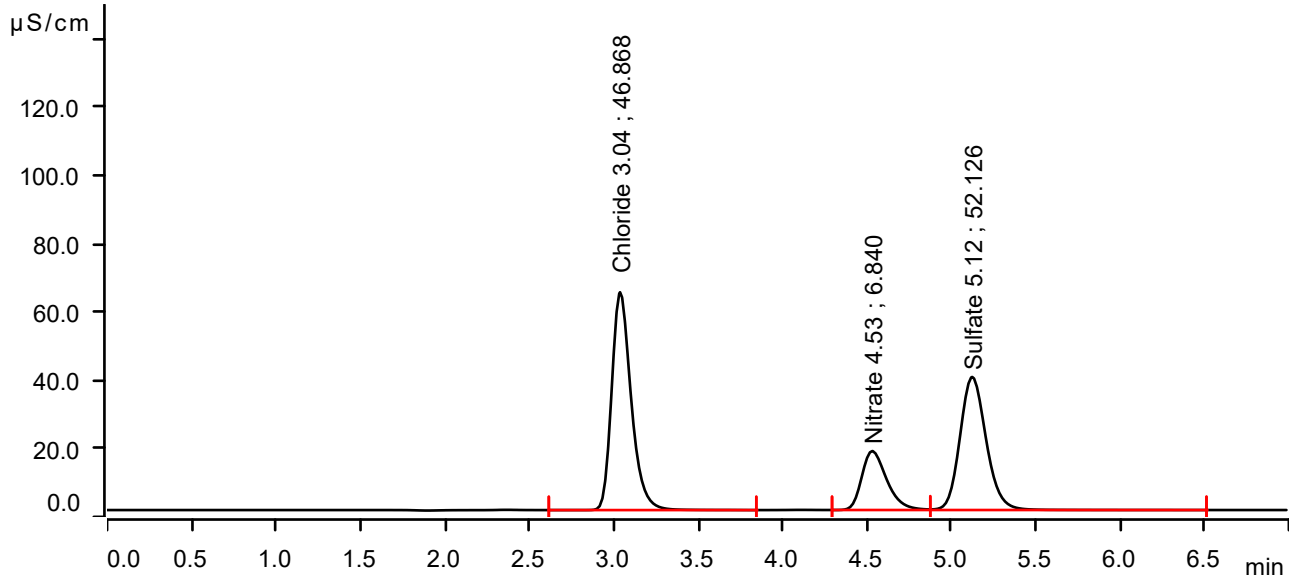
2023-07-21 10:22:56

Injection Time **2023-07-20 16:25:46 UTC-4**

Sample data

Ident	3313942003	
Sample type	Sample	
Position	44	
Injections	1	
Injection counter	1	
Volume	20	µL
Dilution	2	
Sample amount	1	
Comments (Info 2)	M	
Analyst (Info 3)	J1W	
Instrument (Info 4)	IC-12	

Anions



Peak number	Component name	Retention time	Area	Height	Concentration
		min	(µS/cm) x min	µS/cm	ppm
1	Chloride	3.038	8.5324	63.796	46.868
2	Nitrate	4.532	2.9617	17.265	6.840
3	Sulfate	5.123	7.0019	38.967	52.126

F Concentration on Column	invalid	ppm
Cl Concentration on Column	23.434	ppm
NO2 Concentration on Column	invalid	ppm
Br Concentration on Column	invalid	ppm
NO3 Concentration on Column	3.420	ppm
SO4 Concentration on Column	26.063	ppm

MagIC Net

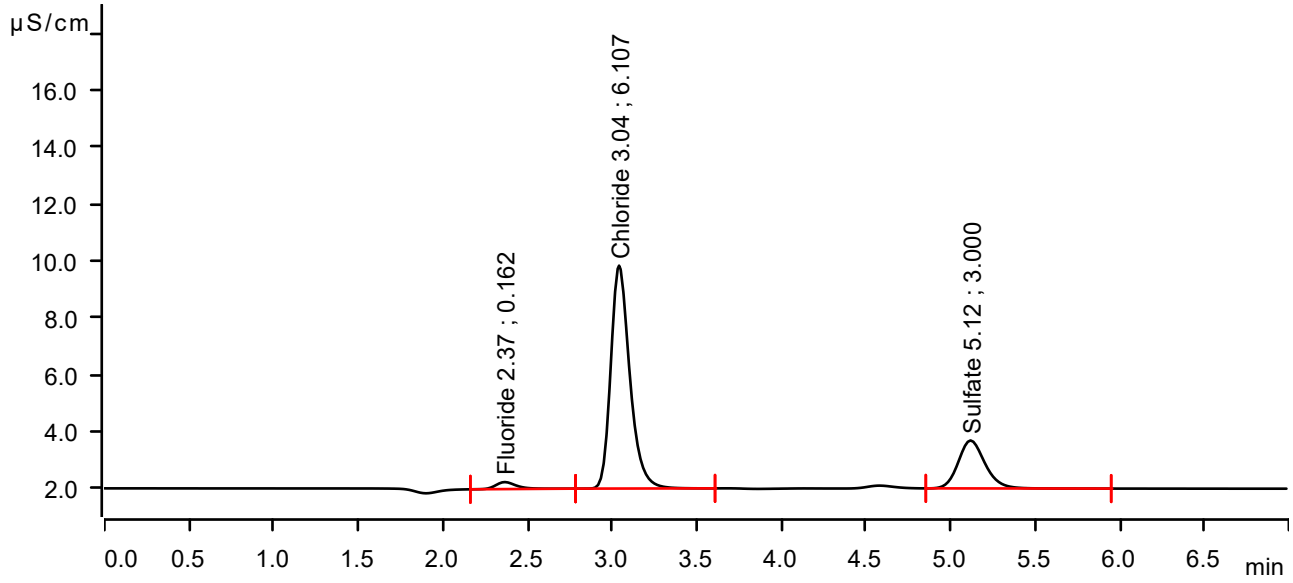
2023-07-21 10:22:57

Injection Time **2023-07-20 16:36:10 UTC-4**

Sample data

Ident	3313911001	
Sample type	Sample	
Position	45	
Injections	1	
Injection counter	1	
Volume	20	µL
Dilution	2	
Sample amount	1	
Comments (Info 2)	FILT	
Analyst (Info 3)	J1W	
Instrument (Info 4)	IC-12	

Anions



Peak number	Component name	Retention time	Area	Height	Concentration
		min	(µS/cm) x min	µS/cm	ppm
1	Fluoride	2.367	0.0354	0.246	0.162
2	Chloride	3.042	1.0245	7.834	6.107
3	Sulfate	5.118	0.3096	1.684	3.000

F Concentration on Column	0.081	ppm
Cl Concentration on Column	3.053	ppm
NO2 Concentration on Column	invalid	ppm
Br Concentration on Column	invalid	ppm
NO3 Concentration on Column	invalid	ppm
SO4 Concentration on Column	1.500	ppm

MagIC Net

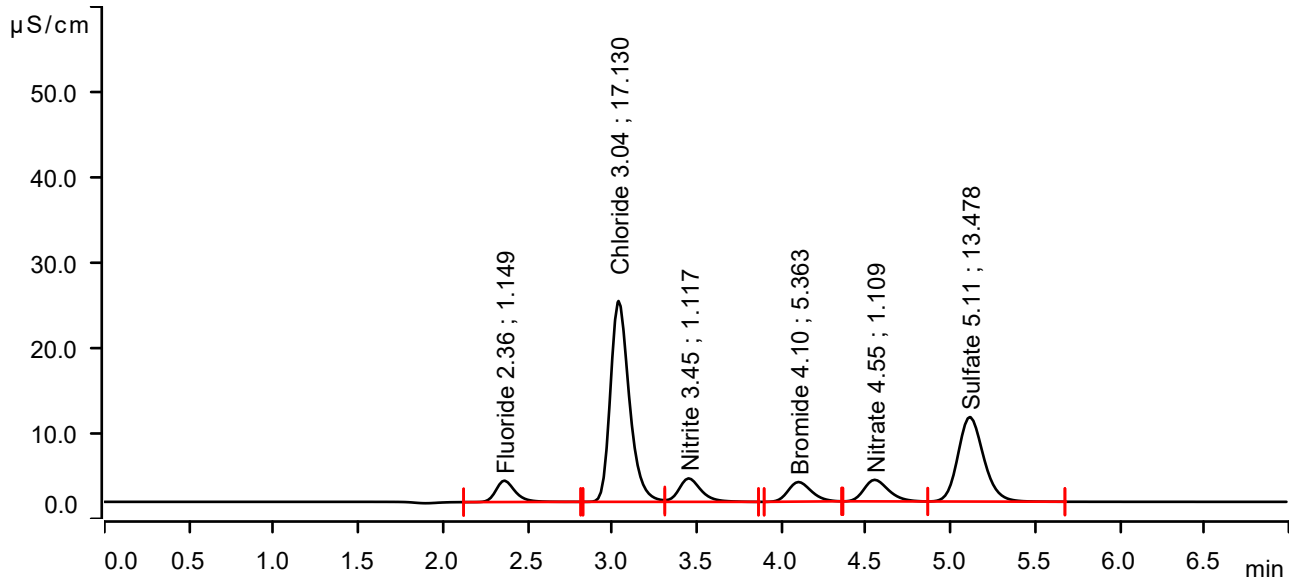
2023-07-21 10:22:58

Injection Time **2023-07-20 16:46:31 UTC-4**

Sample data

Ident	3697393
Sample type	Spiking 1
Position	46
Injections	1
Injection counter	1
Volume	20 µL
Dilution	2
Sample amount	1
Comments (Info 2)	MS, FILT
Analyst (Info 3)	J1W
Instrument (Info 4)	IC-12

Anions



Peak number	Component name	Retention time min	Area (µS/cm) x min	Height µS/cm	Concentration ppm
1	Fluoride	2.363	0.3303	2.495	1.149
2	Chloride	3.038	3.0572	23.523	17.130
3	Nitrite	3.453	0.4167	2.743	1.117
4	Bromide	4.102	0.3645	2.292	5.363
5	Nitrate	4.552	0.4263	2.524	1.109
6	Sulfate	5.113	1.7421	9.896	13.478

F Concentration on Column	0.575	ppm
Cl Concentration on Column	8.565	ppm
NO2 Concentration on Column	0.558	ppm
Br Concentration on Column	2.681	ppm
NO3 Concentration on Column	0.554	ppm
SO4 Concentration on Column	6.739	ppm

MagIC Net

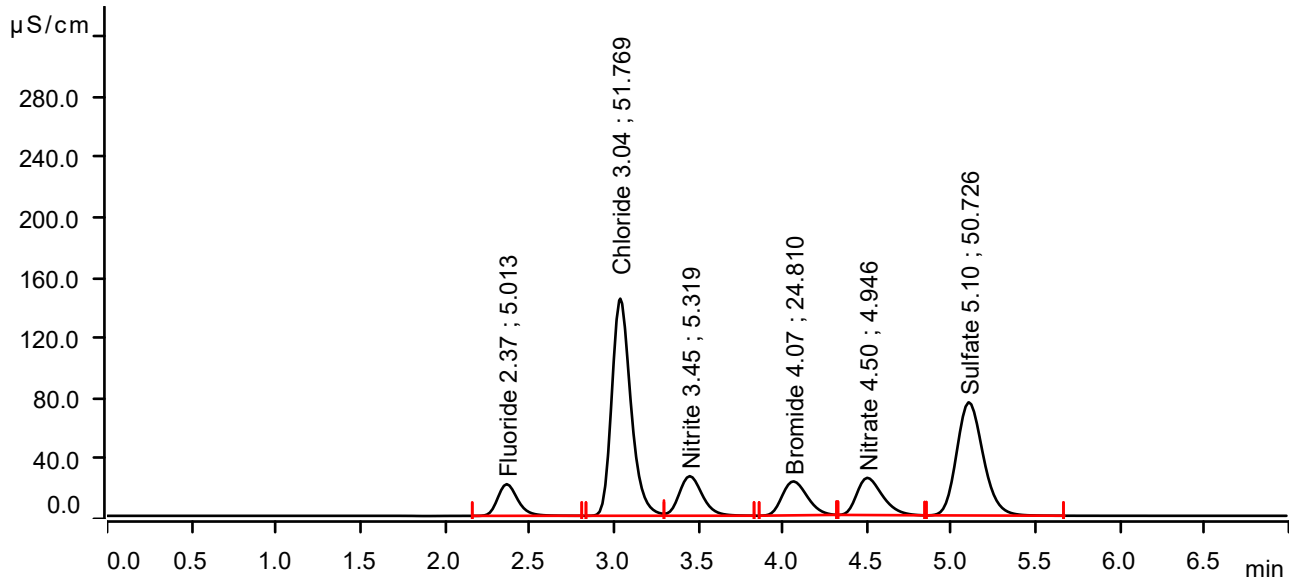
2023-07-21 10:22:59

Injection Time **2023-07-20 16:56:53 UTC-4**

Sample data

Ident	3697394
Sample type	Check standard 3
Position	132
Injections	1
Injection counter	1
Volume	20 µL
Dilution	1
Sample amount	1
Comments (Info 2)	LCS/CCV
Analyst (Info 3)	J1W
Instrument (Info 4)	IC-12

Anions



Peak number	Component name	Retention time min	Area (µS/cm) x min	Height µS/cm	Concentration ppm
1	Fluoride	2.368	2.8856	20.983	5.013
2	Chloride	3.040	18.9306	144.108	51.769
3	Nitrite	3.452	4.1584	26.235	5.319
4	Bromide	4.065	3.8747	22.493	24.810
5	Nitrate	4.503	4.3343	24.649	4.946
6	Sulfate	5.103	13.6590	75.091	50.726

F Concentration on Column	5.013	ppm
Cl Concentration on Column	51.769	ppm
NO2 Concentration on Column	5.319	ppm
Br Concentration on Column	24.810	ppm
NO3 Concentration on Column	4.946	ppm
SO4 Concentration on Column	50.726	ppm

ALS

MagIC Net

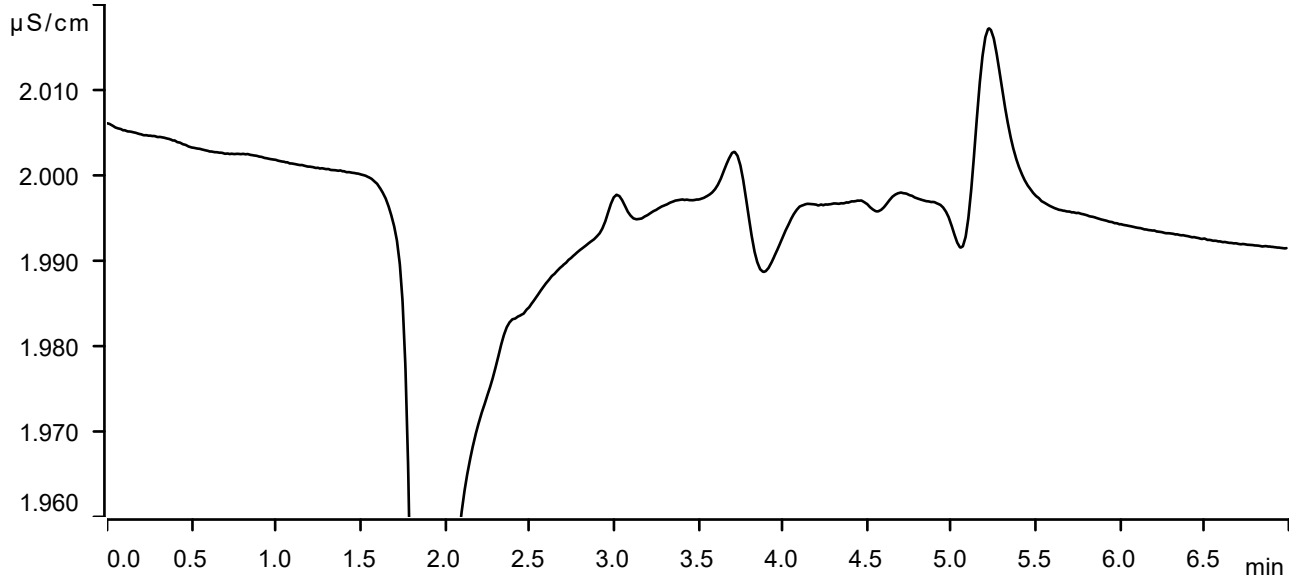
2023-07-21 10:23:00

Injection Time **2023-07-20 17:07:21 UTC-4**

Sample data

Ident	3697395	
Sample type	Sample	
Position	121	
Injections	1	
Injection counter	1	
Volume	20	µL
Dilution	1	
Sample amount	1	
Comments (Info 2)	MB	
Analyst (Info 3)	J1W	
Instrument (Info 4)	IC-12	

Anions



F Concentration on Column	invalid	ppm
Cl Concentration on Column	invalid	ppm
NO2 Concentration on Column	invalid	ppm
Br Concentration on Column	invalid	ppm
NO3 Concentration on Column	invalid	ppm
SO4 Concentration on Column	invalid	ppm

ALS

MagIC Net

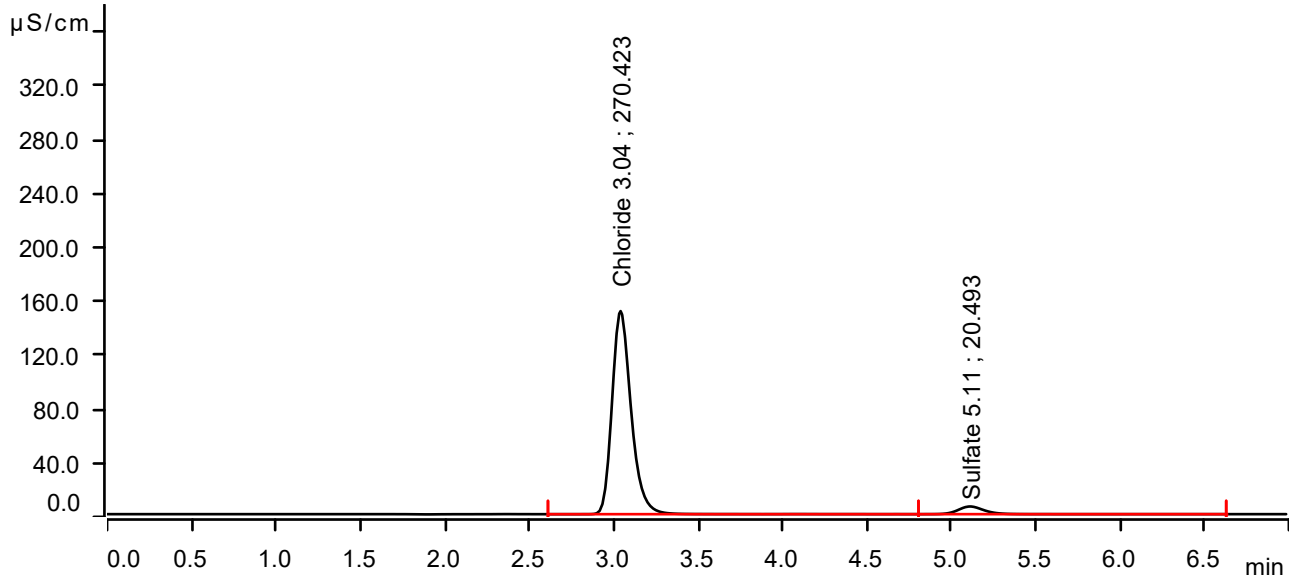
2023-07-21 10:23:01

Injection Time **2023-07-20 17:17:44 UTC-4**

Sample data

Ident	3313408001	
Sample type	Sample	
Position	47	
Injections	1	
Injection counter	1	
Volume	20	µL
Dilution	5	
Sample amount	1	
Comments (Info 2)	MCL RR	
Analyst (Info 3)	J1W	
Instrument (Info 4)	IC-12	

Anions



Peak number	Component name	Retention time	Area	Height	Concentration
		min	(µS/cm) x min	µS/cm	ppm
1	Chloride	3.042	19.7783	150.668	270.423
2	Sulfate	5.110	1.0205	5.701	20.493

F Concentration on Column	invalid	ppm
Cl Concentration on Column	54.085	ppm
NO2 Concentration on Column	invalid	ppm
Br Concentration on Column	invalid	ppm
NO3 Concentration on Column	invalid	ppm
SO4 Concentration on Column	4.099	ppm

ALS

MagIC Net

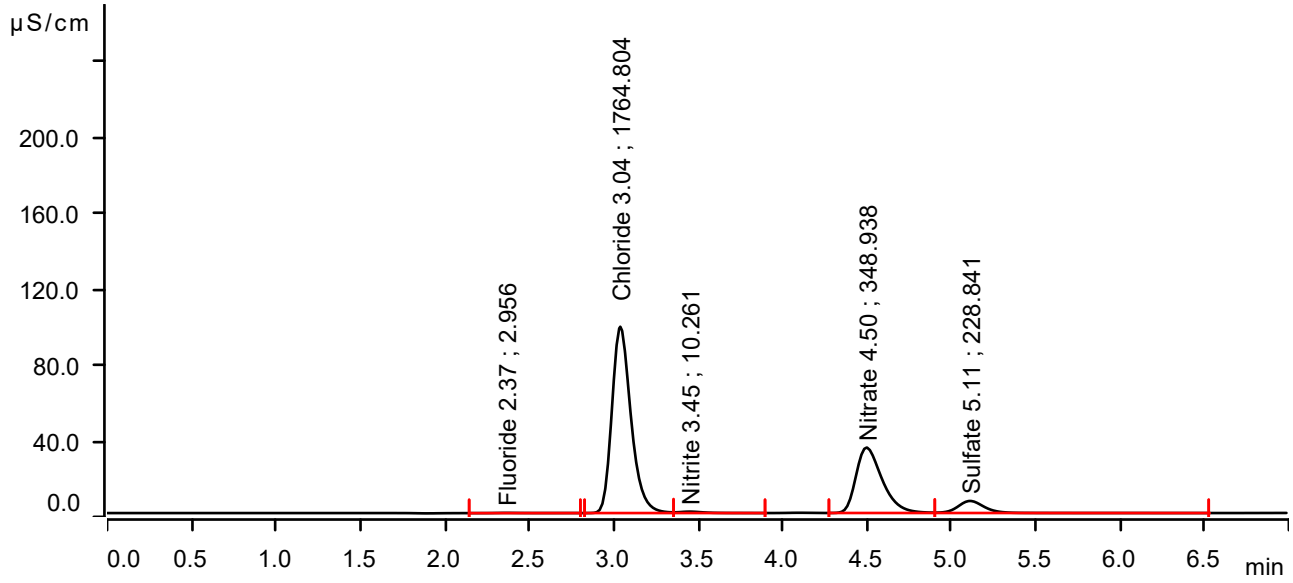
2023-07-21 10:23:02

Injection Time **2023-07-20 17:28:06 UTC-4**

Sample data

Ident	3313549001	
Sample type	Sample	
Position	48	
Injections	1	
Injection counter	1	
Volume	20	µL
Dilution	50	
Sample amount	1	
Comments (Info 2)	FILT	
Analyst (Info 3)	J1W	
Instrument (Info 4)	IC-12	

Anions



Peak number	Component name	Retention time	Area	Height	Concentration
		min	(µS/cm) x min	µS/cm	ppm
1	Fluoride	2.367	0.0224	0.121	2.956
2	Chloride	3.040	12.8912	98.217	1764.804
3	Nitrite	3.450	0.1249	0.746	10.261
4	Nitrate	4.498	6.1864	34.480	348.938
5	Sulfate	5.110	1.1512	6.358	228.841

F Concentration on Column	0.059	ppm
Cl Concentration on Column	35.296	ppm
NO2 Concentration on Column	0.205	ppm
Br Concentration on Column	invalid	ppm
NO3 Concentration on Column	6.979	ppm
SO4 Concentration on Column	4.577	ppm

ALS

MagIC Net

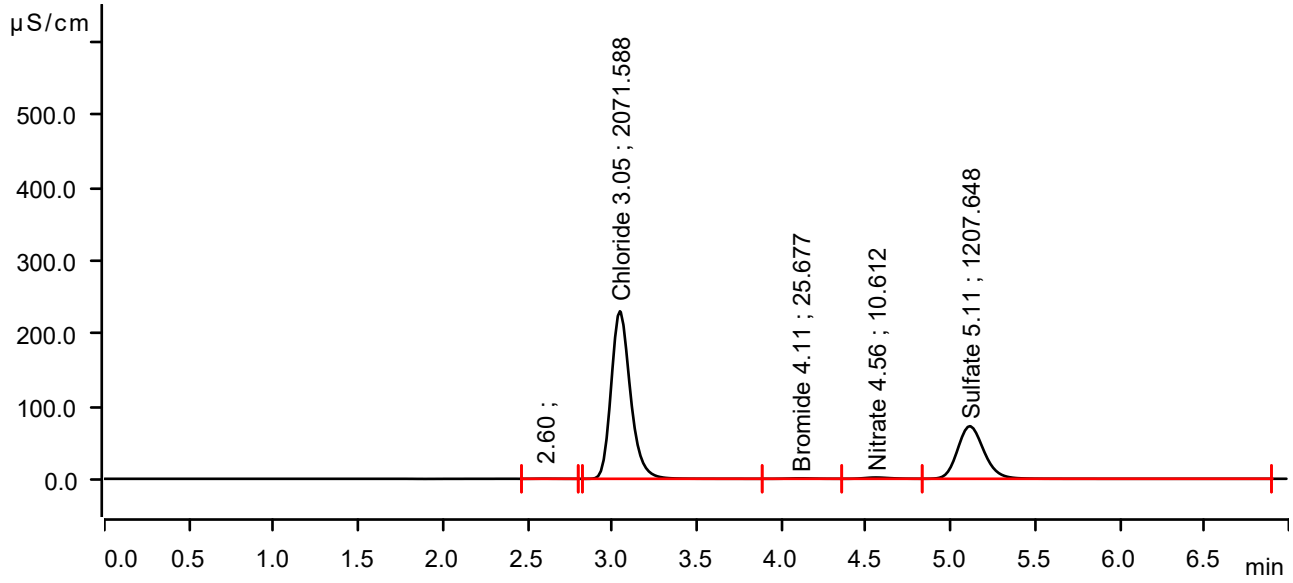
2023-07-21 10:23:03

Injection Time **2023-07-20 17:38:29 UTC-4**

Sample data

Ident	3313710001	
Sample type	Sample	
Position	49	
Injections	1	
Injection counter	1	
Volume	20	µL
Dilution	25	
Sample amount	1	
Comments (Info 2)	FILT	
Analyst (Info 3)	J1W	
Instrument (Info 4)	IC-12	

Anions



Peak number	Component name	Retention time	Area	Height	Concentration
		min	(µS/cm) x min	µS/cm	ppm
2	Chloride	3.047	30.2876	228.976	2071.588
3	Bromide	4.112	0.1064	0.582	25.677
4	Nitrate	4.558	0.3126	1.763	10.612
5	Sulfate	5.113	13.0085	71.867	1207.648

F Concentration on Column	invalid	ppm
Cl Concentration on Column	82.864	ppm
NO2 Concentration on Column	invalid	ppm
Br Concentration on Column	1.027	ppm
NO3 Concentration on Column	0.424	ppm
SO4 Concentration on Column	48.306	ppm

ALS

MagIC Net

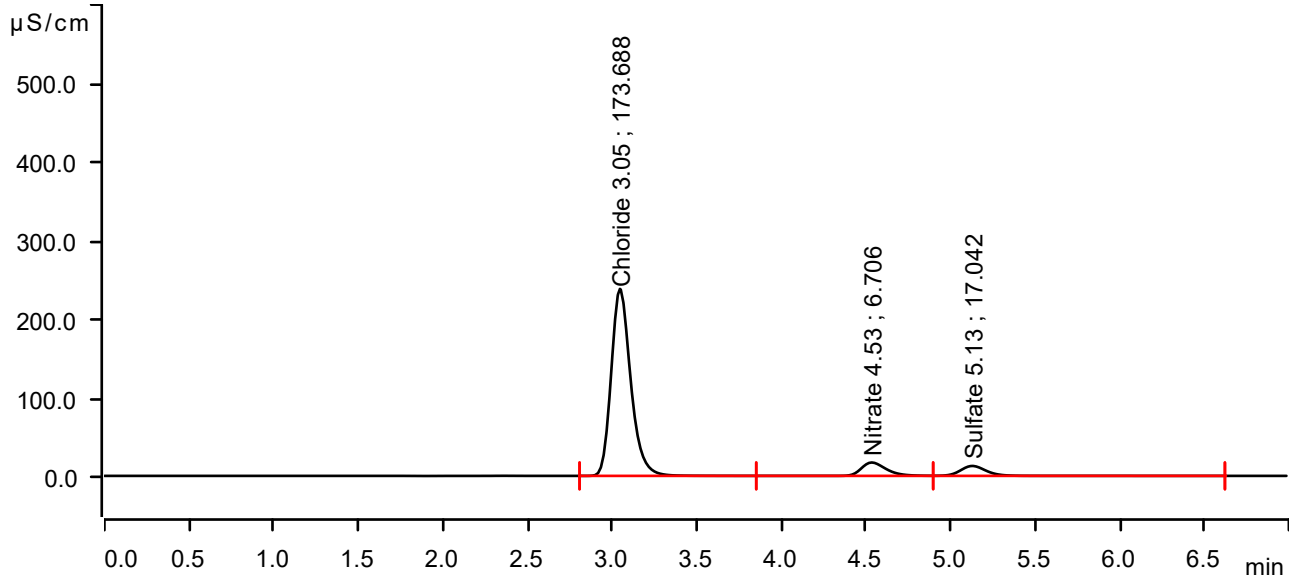
2023-07-21 10:23:04

Injection Time **2023-07-20 17:48:52 UTC-4**

Sample data

Ident	3313940001	
Sample type	Sample	
Position	54	
Injections	1	
Injection counter	1	
Volume	20	µL
Dilution	2	
Sample amount	1	
Comments (Info 2)	FILT	
Analyst (Info 3)	J1W	
Instrument (Info 4)	IC-12	

Anions



Peak number	Component name	Retention time	Area	Height	Concentration
		min	(µS/cm) x min	µS/cm	ppm
1	Chloride	3.047	31.7374	237.274	173.688
2	Nitrate	4.533	2.9017	16.972	6.706
3	Sulfate	5.128	2.2287	12.586	17.042

F Concentration on Column	invalid	ppm
Cl Concentration on Column	86.844	ppm
NO2 Concentration on Column	invalid	ppm
Br Concentration on Column	invalid	ppm
NO3 Concentration on Column	3.353	ppm
SO4 Concentration on Column	8.521	ppm

ALS

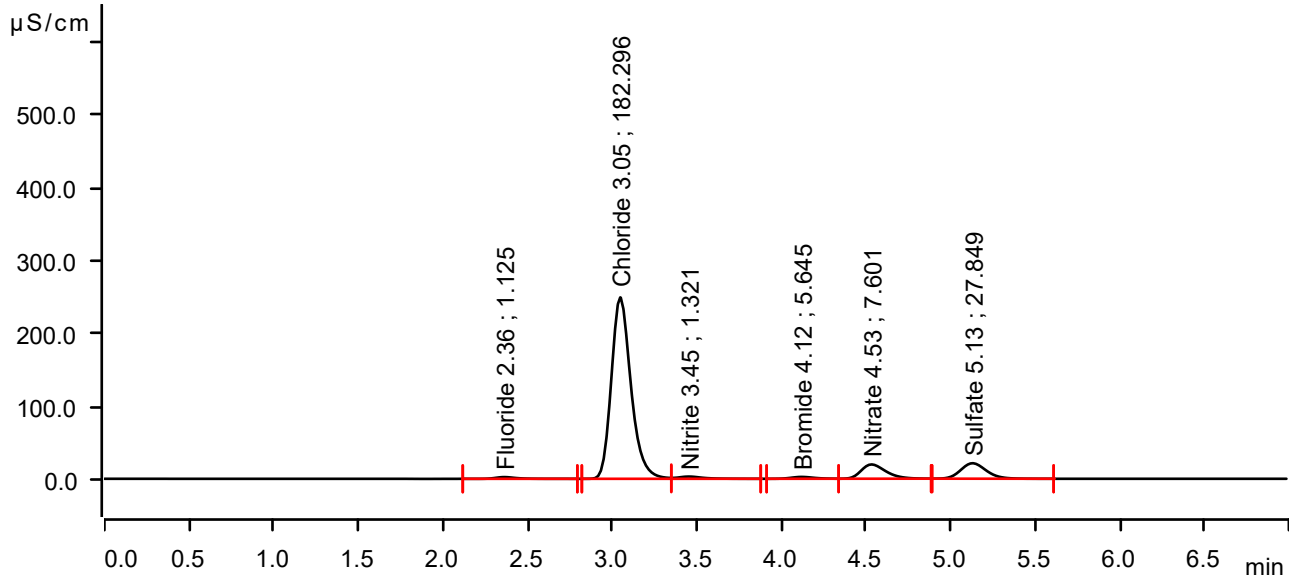
2023-07-21 10:23:05

Injection Time 2023-07-20 17:59:17 UTC-4

Sample data

Ident	3697455
Sample type	Spiking 1
Position	55
Injections	1
Injection counter	1
Volume	20 µL
Dilution	2
Sample amount	1
Comments (Info 2)	MS, FILT
Analyst (Info 3)	J1W
Instrument (Info 4)	IC-12

Anions



Peak number	Component name	Retention time min	Area (µS/cm) x min	Height µS/cm	Concentration ppm
1	Fluoride	2.363	0.3230	2.349	1.125
2	Chloride	3.048	33.3040	247.970	182.296
3	Nitrite	3.453	0.5006	3.046	1.321
4	Bromide	4.120	0.3866	2.505	5.645
5	Nitrate	4.533	3.3027	19.495	7.601
6	Sulfate	5.130	3.7023	21.155	27.849

F Concentration on Column	0.562	ppm
Cl Concentration on Column	91.148	ppm
NO2 Concentration on Column	0.660	ppm
Br Concentration on Column	2.822	ppm
NO3 Concentration on Column	3.801	ppm
SO4 Concentration on Column	13.924	ppm

MagIC Net

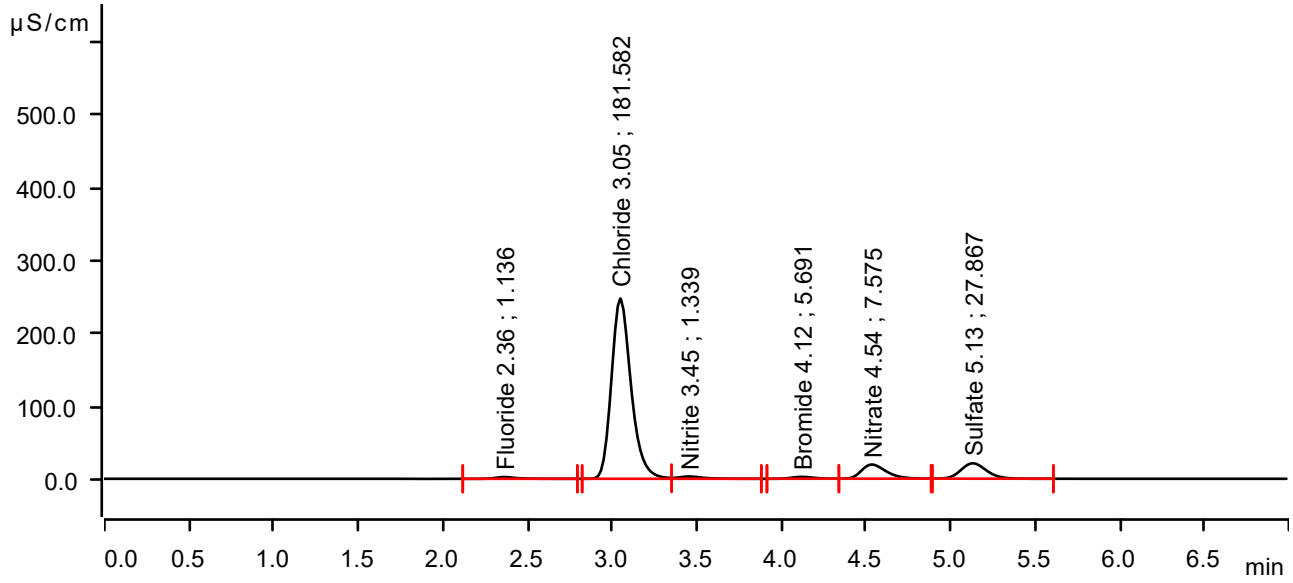
2023-07-21 10:23:06

Injection Time **2023-07-20 18:09:42 UTC-4**

Sample data

Ident	3697456	
Sample type	Spiking 1	
Position	56	
Injections	1	
Injection counter	1	
Volume	20	µL
Dilution	2	
Sample amount	1	
Comments (Info 2)	MSD, FILT	
Analyst (Info 3)	J1W	
Instrument (Info 4)	IC-12	

Anions



Peak number	Component name	Retention time min	Area (µS/cm) x min	Height µS/cm	Concentration ppm
1	Fluoride	2.363	0.3263	2.360	1.136
2	Chloride	3.048	33.1741	246.288	181.582
3	Nitrite	3.453	0.5083	3.087	1.339
4	Bromide	4.120	0.3902	2.524	5.691
5	Nitrate	4.535	3.2911	19.386	7.575
6	Sulfate	5.130	3.7048	21.108	27.867

F Concentration on Column	0.568	ppm
Cl Concentration on Column	90.791	ppm
NO2 Concentration on Column	0.670	ppm
Br Concentration on Column	2.846	ppm
NO3 Concentration on Column	3.788	ppm
SO4 Concentration on Column	13.934	ppm

ALS

MagIC Net

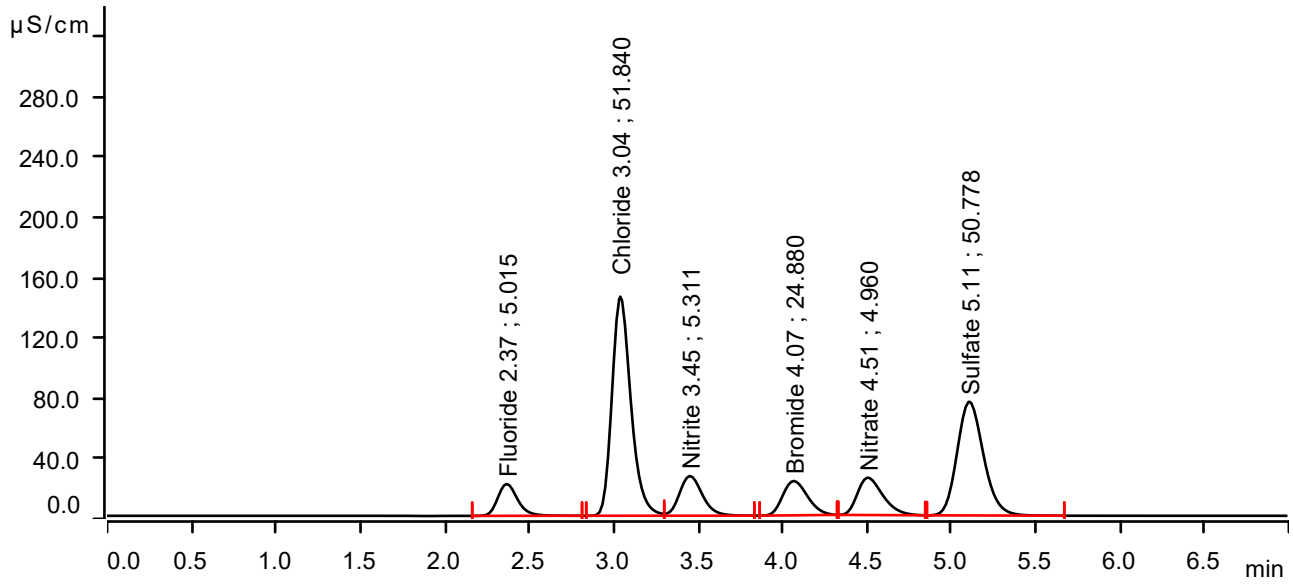
2023-07-21 10:23:07

Injection Time **2023-07-20 18:20:08 UTC-4**

Sample data

Ident	3697457
Sample type	Check standard 3
Position	132
Injections	1
Injection counter	1
Volume	20 µL
Dilution	1
Sample amount	1
Comments (Info 2)	CCV
Analyst (Info 3)	J1W
Instrument (Info 4)	IC-12

Anions



Peak number	Component name	Retention time min	Area (µS/cm) x min	Height µS/cm	Concentration ppm
1	Fluoride	2.368	2.8867	21.129	5.015
2	Chloride	3.040	18.9565	145.424	51.840
3	Nitrite	3.452	4.1523	26.343	5.311
4	Bromide	4.067	3.8860	22.753	24.880
5	Nitrate	4.505	4.3471	24.796	4.960
6	Sulfate	5.107	13.6728	75.507	50.778

F Concentration on Column	5.015	ppm
Cl Concentration on Column	51.840	ppm
NO2 Concentration on Column	5.311	ppm
Br Concentration on Column	24.880	ppm
NO3 Concentration on Column	4.960	ppm
SO4 Concentration on Column	50.778	ppm

ALS

MagIC Net

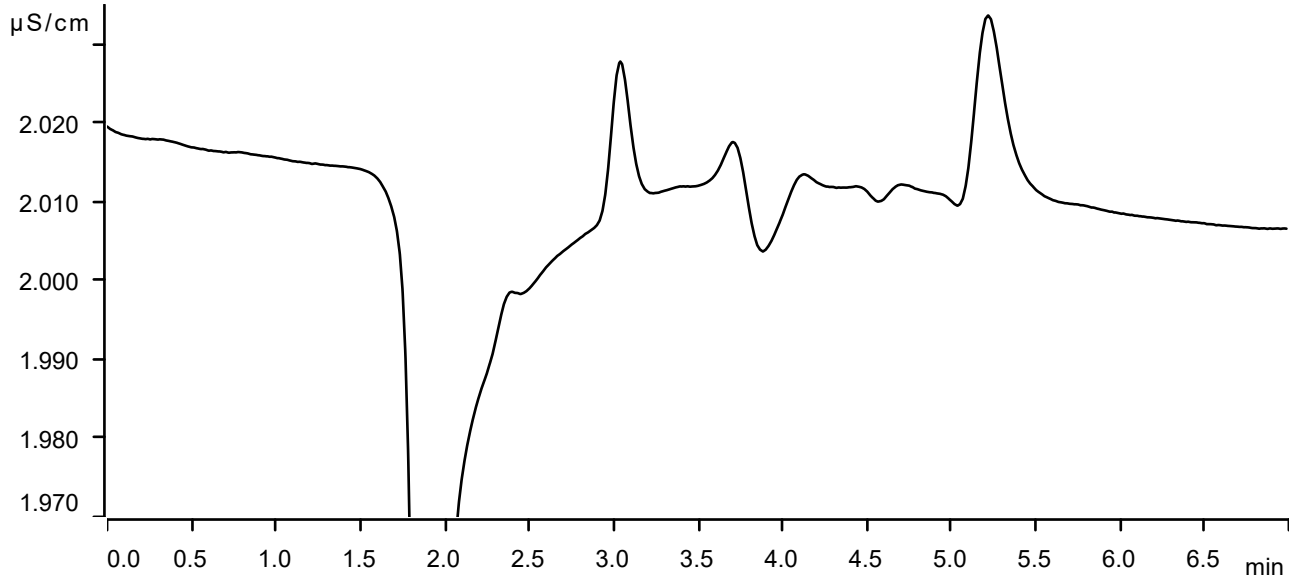
2023-07-21 10:23:08

Injection Time **2023-07-20 18:30:36 UTC-4**

Sample data

Ident	3697458	
Sample type	Sample	
Position	121	
Injections	1	
Injection counter	1	
Volume	20	µL
Dilution	1	
Sample amount	1	
Comments (Info 2)	MB	
Analyst (Info 3)	J1W	
Instrument (Info 4)	IC-12	

Anions



F Concentration on Column	invalid	ppm
Cl Concentration on Column	invalid	ppm
NO2 Concentration on Column	invalid	ppm
Br Concentration on Column	invalid	ppm
NO3 Concentration on Column	invalid	ppm
SO4 Concentration on Column	invalid	ppm

ALS

MagIC Net

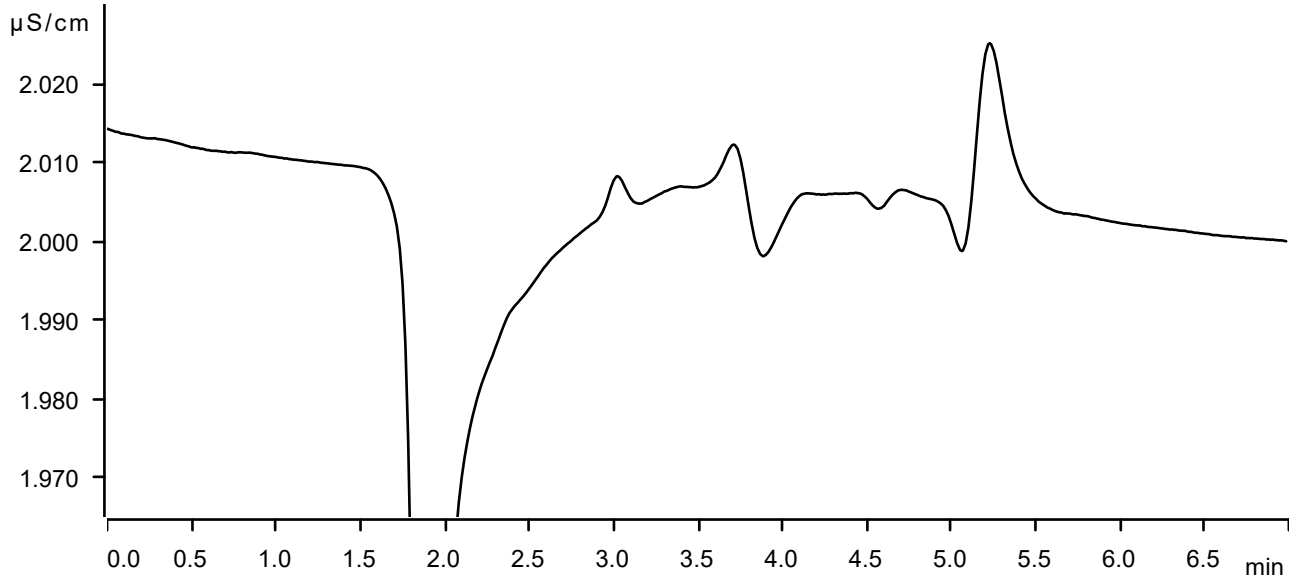
2023-07-21 10:23:09

Injection Time **2023-07-20 18:40:59 UTC-4**

Sample data

Ident	3697126	
Sample type	Sample	
Position	119	
Injections	1	
Injection counter	1	
Volume	20	µL
Dilution	1	
Sample amount	1	
Comments (Info 2)	MB DOD	
Analyst (Info 3)	J1W	
Instrument (Info 4)	IC-12	

Anions



F Concentration on Column	invalid	ppm
Cl Concentration on Column	invalid	ppm
NO2 Concentration on Column	invalid	ppm
Br Concentration on Column	invalid	ppm
NO3 Concentration on Column	invalid	ppm
SO4 Concentration on Column	invalid	ppm

ALS

MagIC Net

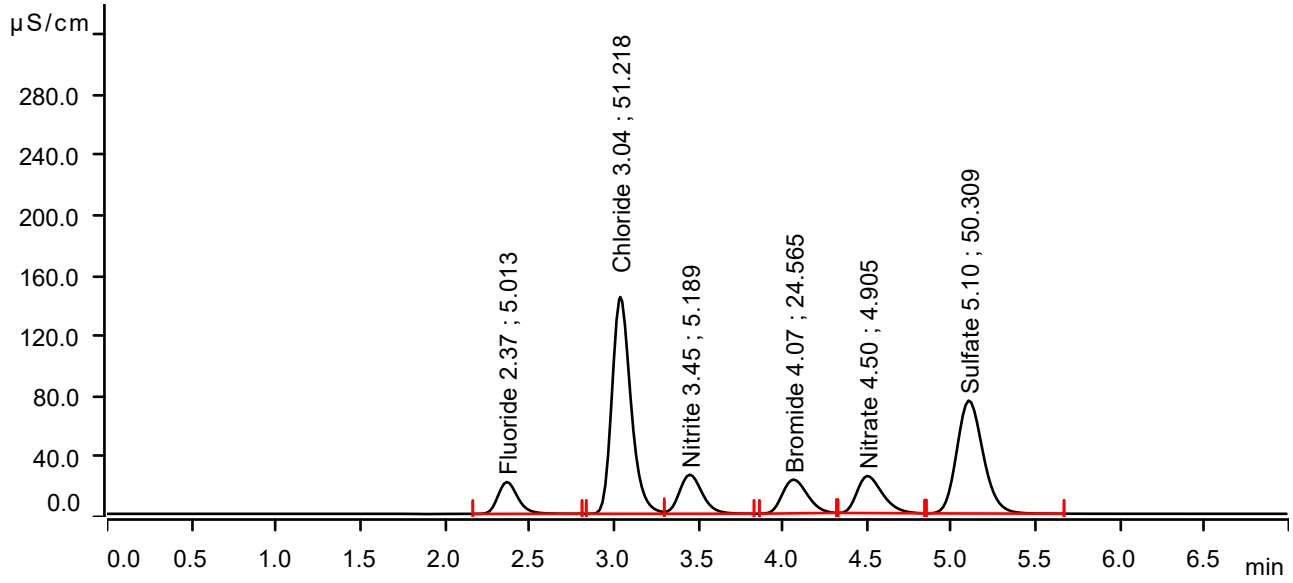
2023-07-21 10:23:10

Injection Time **2023-07-20 18:51:20 UTC-4**

Sample data

Ident	3697127	
Sample type	Check standard 3	
Position	130	
Injections	1	
Injection counter	1	
Volume	20	µL
Dilution	1	
Sample amount	1	
Comments (Info 2)	LCS/CCV	
Analyst (Info 3)	J1W	
Instrument (Info 4)	IC-12	

Anions



Peak number	Component name	Retention time	Area	Height	Concentration
		min	(µS/cm) x min	µS/cm	ppm
1	Fluoride	2.368	2.8856	21.105	5.013
2	Chloride	3.040	18.7289	143.867	51.218
3	Nitrite	3.452	4.0608	25.850	5.189
4	Bromide	4.065	3.8354	22.357	24.565
5	Nitrate	4.503	4.2975	24.568	4.905
6	Sulfate	5.103	13.5470	74.902	50.309

F Concentration on Column	5.013	ppm
Cl Concentration on Column	51.218	ppm
NO2 Concentration on Column	5.189	ppm
Br Concentration on Column	24.565	ppm
NO3 Concentration on Column	4.905	ppm
SO4 Concentration on Column	50.309	ppm

ALS

MagIC Net

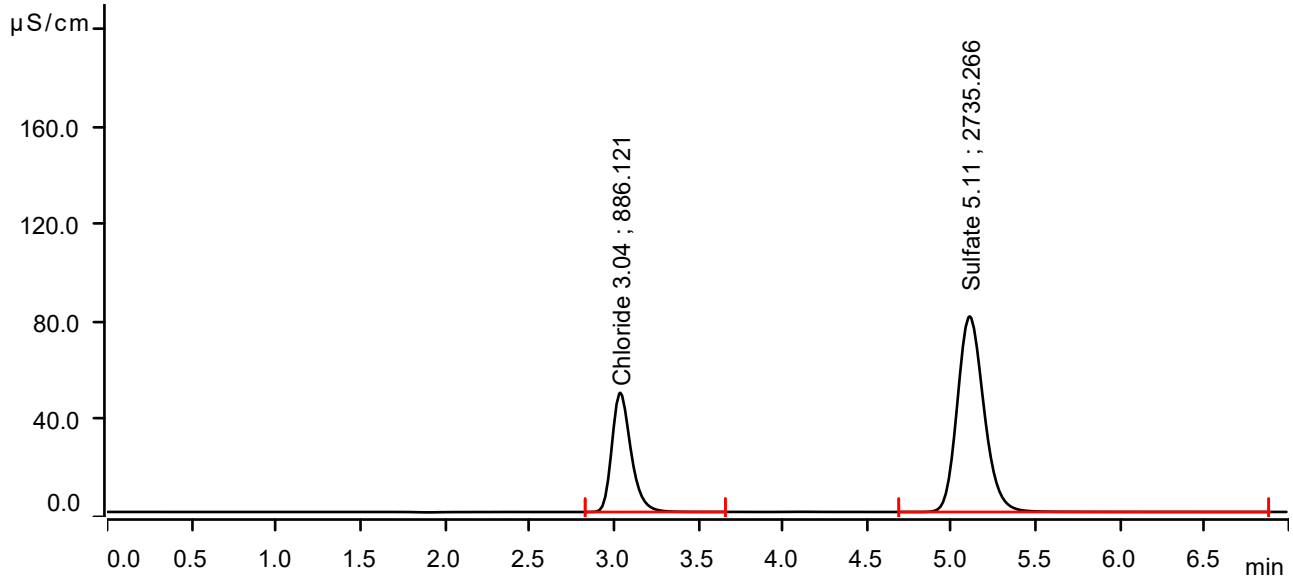
2023-07-21 10:23:11

Injection Time **2023-07-20 19:01:48 UTC-4**

Sample data

Ident	3312815002	
Sample type	Sample	
Position	97	
Injections	1	
Injection counter	1	
Volume	20	µL
Dilution	50	
Sample amount	1	
Comments (Info 2)	FILT	
Analyst (Info 3)	J1W	
Instrument (Info 4)	IC-12	

Anions



Peak number	Component name	Retention time	Area	Height	Concentration
		min	(µS/cm) x min	µS/cm	ppm
1	Chloride	3.040	6.4308	48.880	886.121
2	Sulfate	5.108	14.7272	80.196	2735.266

F Concentration on Column	invalid	ppm
Cl Concentration on Column	17.722	ppm
NO2 Concentration on Column	invalid	ppm
Br Concentration on Column	invalid	ppm
NO3 Concentration on Column	invalid	ppm
SO4 Concentration on Column	54.705	ppm

ALS

MagIC Net

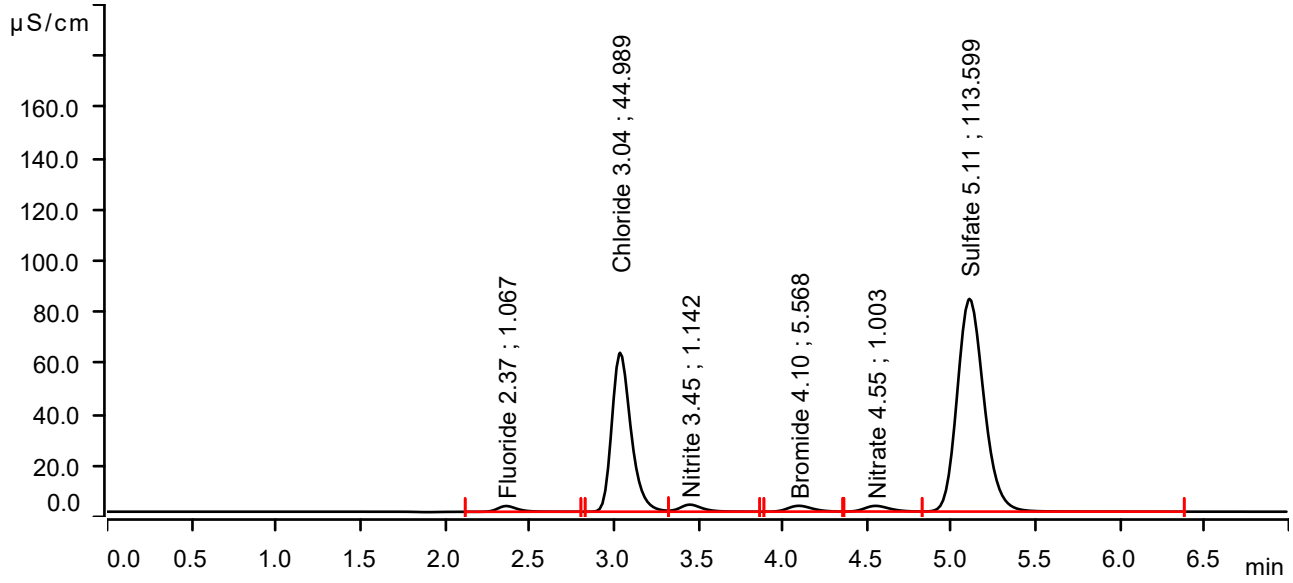
2023-07-21 10:23:12

Injection Time **2023-07-20 19:12:14 UTC-4**

Sample data

Ident	3697128	
Sample type	Spiking 1	
Position	98	
Injections	1	
Injection counter	1	
Volume	20	µL
Dilution	2	
Sample amount	1	
Comments (Info 2)	MS, FILT	
Analyst (Info 3)	J1W	
Instrument (Info 4)	IC-12	

Anions



Peak number	Component name	Retention time	Area	Height	Concentration
		min	(µS/cm) x min	µS/cm	ppm
1	Fluoride	2.365	0.3059	2.248	1.067
2	Chloride	3.038	8.1868	62.050	44.989
3	Nitrite	3.452	0.4273	2.759	1.142
4	Bromide	4.097	0.3806	2.276	5.568
5	Nitrate	4.552	0.3800	2.224	1.003
6	Sulfate	5.107	15.2888	83.061	113.599

F Concentration on Column	0.534	ppm
Cl Concentration on Column	22.494	ppm
NO2 Concentration on Column	0.571	ppm
Br Concentration on Column	2.784	ppm
NO3 Concentration on Column	0.501	ppm
SO4 Concentration on Column	56.799	ppm

ALS

MagIC Net

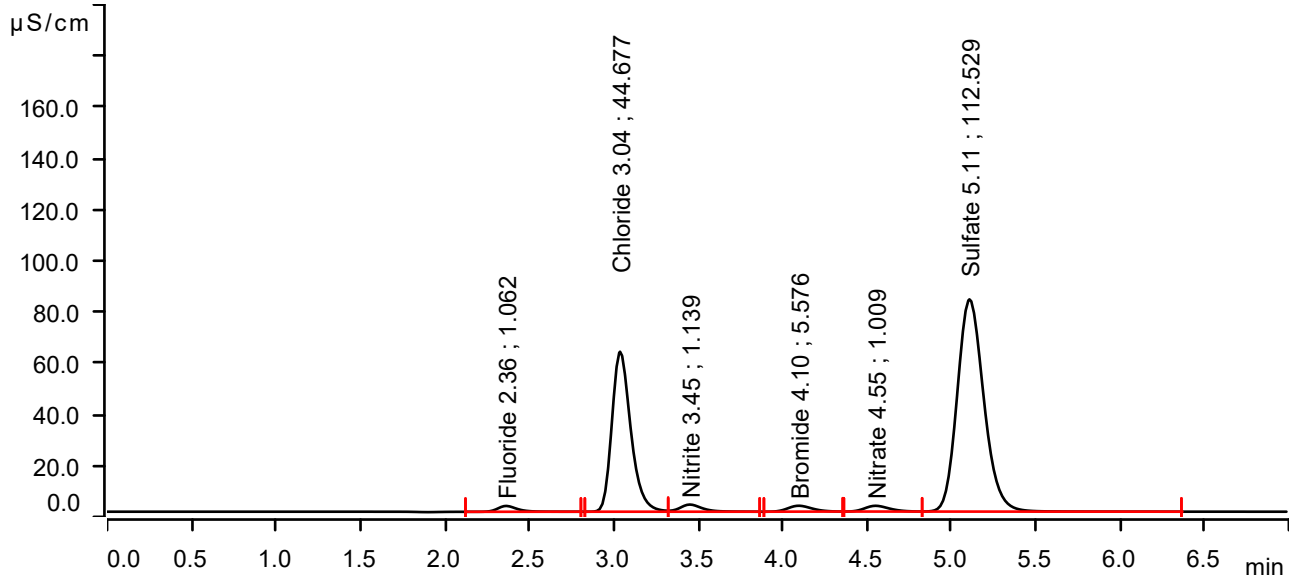
2023-07-21 10:23:13

Injection Time **2023-07-20 19:22:42 UTC-4**

Sample data

Ident	3697129	
Sample type	Spiking 1	
Position	99	
Injections	1	
Injection counter	1	
Volume	20	µL
Dilution	2	
Sample amount	1	
Comments (Info 2)	MS, FILT	
Analyst (Info 3)	J1W	
Instrument (Info 4)	IC-12	

Anions



Peak number	Component name	Retention time	Area	Height	Concentration
		min	(µS/cm) x min	µS/cm	ppm
1	Fluoride	2.363	0.3043	2.274	1.062
2	Chloride	3.038	8.1295	62.470	44.677
3	Nitrite	3.452	0.4260	2.787	1.139
4	Bromide	4.097	0.3812	2.299	5.576
5	Nitrate	4.552	0.3824	2.254	1.009
6	Sulfate	5.107	15.1453	82.877	112.529

F Concentration on Column	0.531	ppm
Cl Concentration on Column	22.339	ppm
NO2 Concentration on Column	0.570	ppm
Br Concentration on Column	2.788	ppm
NO3 Concentration on Column	0.504	ppm
SO4 Concentration on Column	56.264	ppm

ALS

MagIC Net

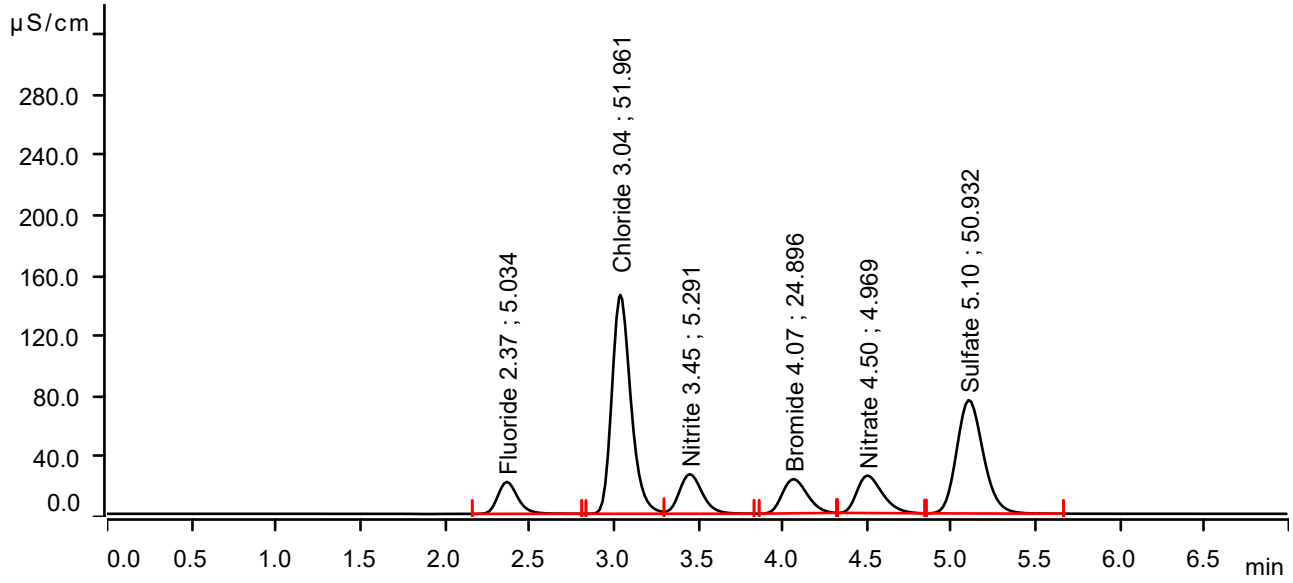
2023-07-21 10:23:14

Injection Time **2023-07-20 19:33:10 UTC-4**

Sample data

Ident	3697130
Sample type	Check standard 3
Position	135
Injections	1
Injection counter	1
Volume	20 µL
Dilution	1
Sample amount	1
Comments (Info 2)	LCS/CCV
Analyst (Info 3)	J1W
Instrument (Info 4)	IC-12

Anions



Peak number	Component name	Retention time	Area	Height	Concentration
		min	(µS/cm) x min	µS/cm	ppm
1	Fluoride	2.368	2.8972	21.149	5.034
2	Chloride	3.040	19.0009	145.300	51.961
3	Nitrite	3.452	4.1374	26.201	5.291
4	Bromide	4.065	3.8886	22.634	24.896
5	Nitrate	4.503	4.3552	24.813	4.969
6	Sulfate	5.103	13.7143	75.250	50.932

F Concentration on Column	5.034	ppm
Cl Concentration on Column	51.961	ppm
NO2 Concentration on Column	5.291	ppm
Br Concentration on Column	24.896	ppm
NO3 Concentration on Column	4.969	ppm
SO4 Concentration on Column	50.932	ppm

ALS

MagIC Net

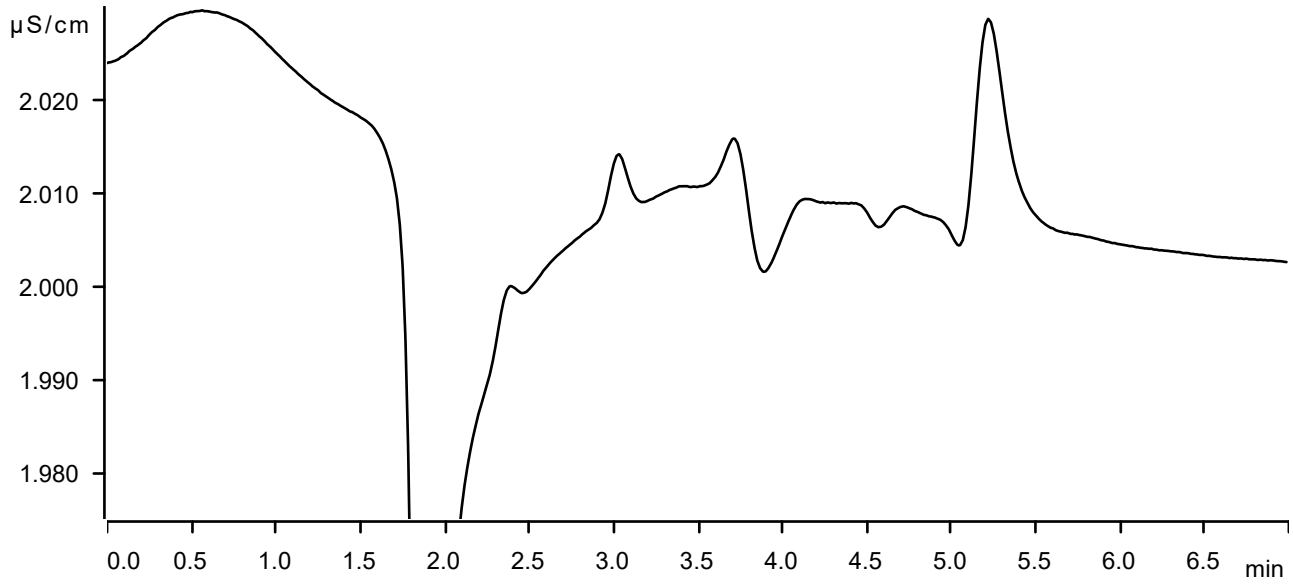
2023-07-21 10:23:15

Injection Time **2023-07-20 19:43:39 UTC-4**

Sample data

Ident	3697131	
Sample type	Sample	
Position	124	
Injections	1	
Injection counter	1	
Volume	20	µL
Dilution	1	
Sample amount	1	
Comments (Info 2)	MB	
Analyst (Info 3)	J1W	
Instrument (Info 4)	IC-12	

Anions



F Concentration on Column	invalid	ppm
Cl Concentration on Column	invalid	ppm
NO2 Concentration on Column	invalid	ppm
Br Concentration on Column	invalid	ppm
NO3 Concentration on Column	invalid	ppm
SO4 Concentration on Column	invalid	ppm

ALS

MagIC Net

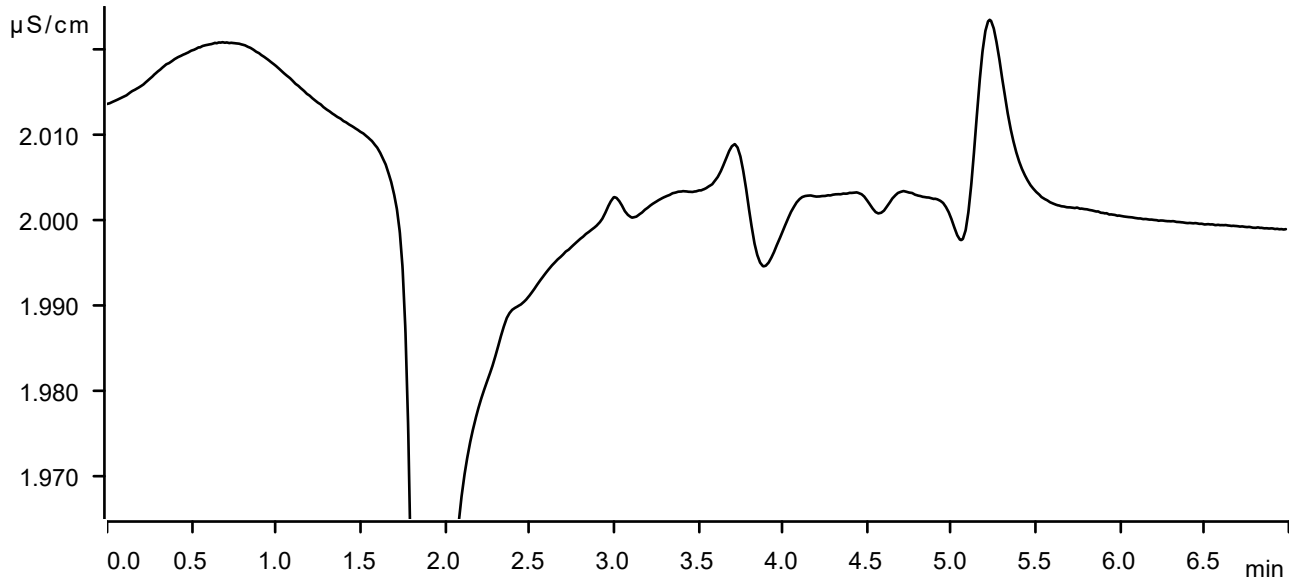
2023-07-21 10:23:16

Injection Time **2023-07-20 19:54:03 UTC-4**

Sample data

Ident	MB	
Sample type	Sample	
Position	119	
Injections	1	
Injection counter	1	
Volume	20	µL
Dilution	1	
Sample amount	1	
Comments (Info 2)	MB	
Analyst (Info 3)	J1W	
Instrument (Info 4)	IC-12	

Anions



F Concentration on Column	invalid	ppm
Cl Concentration on Column	invalid	ppm
NO2 Concentration on Column	invalid	ppm
Br Concentration on Column	invalid	ppm
NO3 Concentration on Column	invalid	ppm
SO4 Concentration on Column	invalid	ppm

ALS

MagIC Net

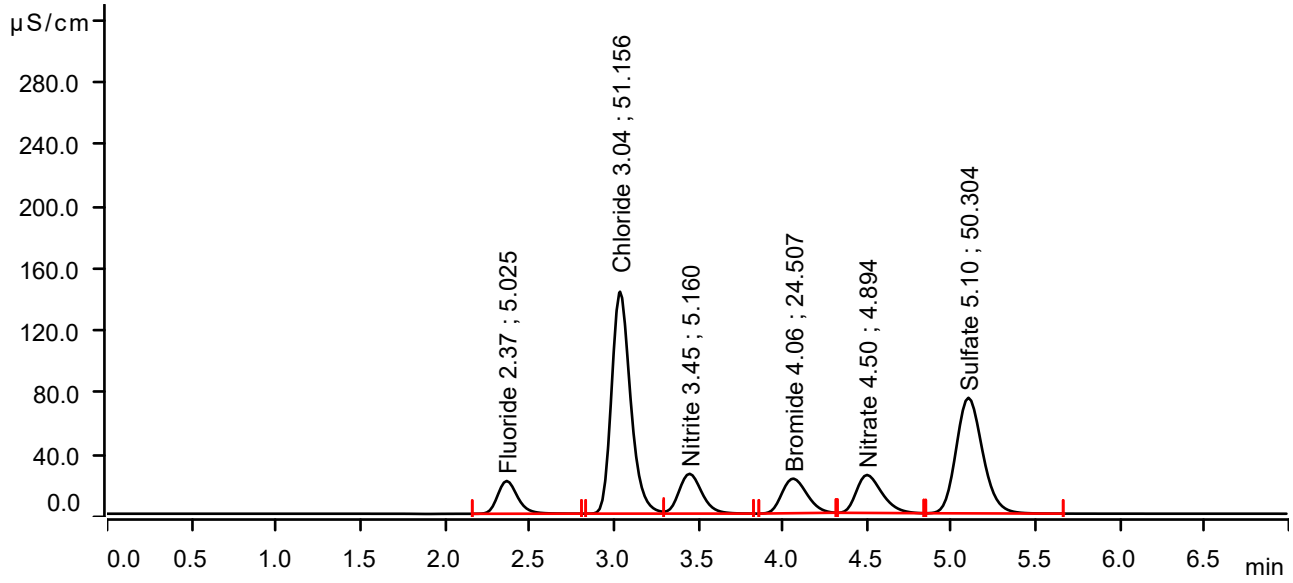
2023-07-21 10:23:17

Injection Time **2023-07-20 20:04:25 UTC-4**

Sample data

Ident	LCS
Sample type	Check standard 3
Position	130
Injections	1
Injection counter	1
Volume	20 µL
Dilution	1
Sample amount	1
Comments (Info 2)	LCS/CCV
Analyst (Info 3)	J1W
Instrument (Info 4)	IC-12

Anions



Peak number	Component name	Retention time min	Area (µS/cm) x min	Height µS/cm	Concentration ppm
1	Fluoride	2.367	2.8922	21.069	5.025
2	Chloride	3.038	18.7063	142.974	51.156
3	Nitrite	3.450	4.0395	25.629	5.160
4	Bromide	4.063	3.8260	22.230	24.507
5	Nitrate	4.500	4.2873	24.421	4.894
6	Sulfate	5.100	13.5457	74.423	50.304

F Concentration on Column	5.025	ppm
Cl Concentration on Column	51.156	ppm
NO2 Concentration on Column	5.160	ppm
Br Concentration on Column	24.507	ppm
NO3 Concentration on Column	4.894	ppm
SO4 Concentration on Column	50.304	ppm

ALS

MagIC Net

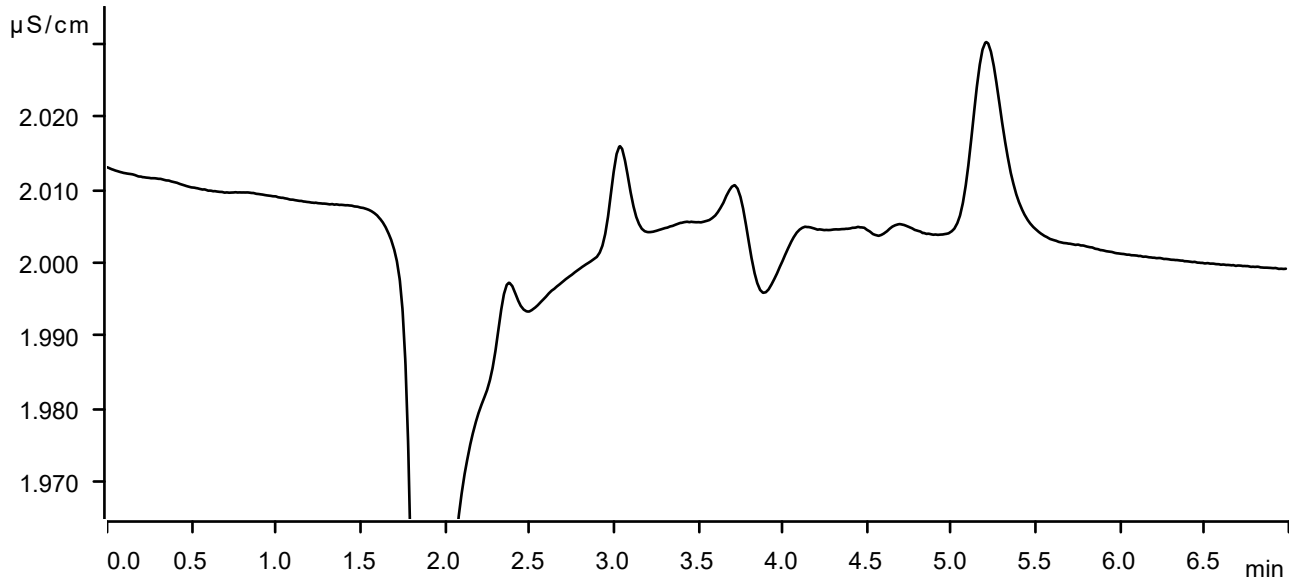
2023-07-21 10:23:18

Injection Time **2023-07-20 20:14:52 UTC-4**

Sample data

Ident	3697504	
Sample type	Sample	
Position	106	
Injections	1	
Injection counter	1	
Volume	20	µL
Dilution	1	
Sample amount	1	
Comments (Info 2)	batch mb	
Analyst (Info 3)	J1W	
Instrument (Info 4)	IC-12	

Anions



F Concentration on Column	invalid	ppm
Cl Concentration on Column	invalid	ppm
NO2 Concentration on Column	invalid	ppm
Br Concentration on Column	invalid	ppm
NO3 Concentration on Column	invalid	ppm
SO4 Concentration on Column	invalid	ppm

ALS

MagIC Net

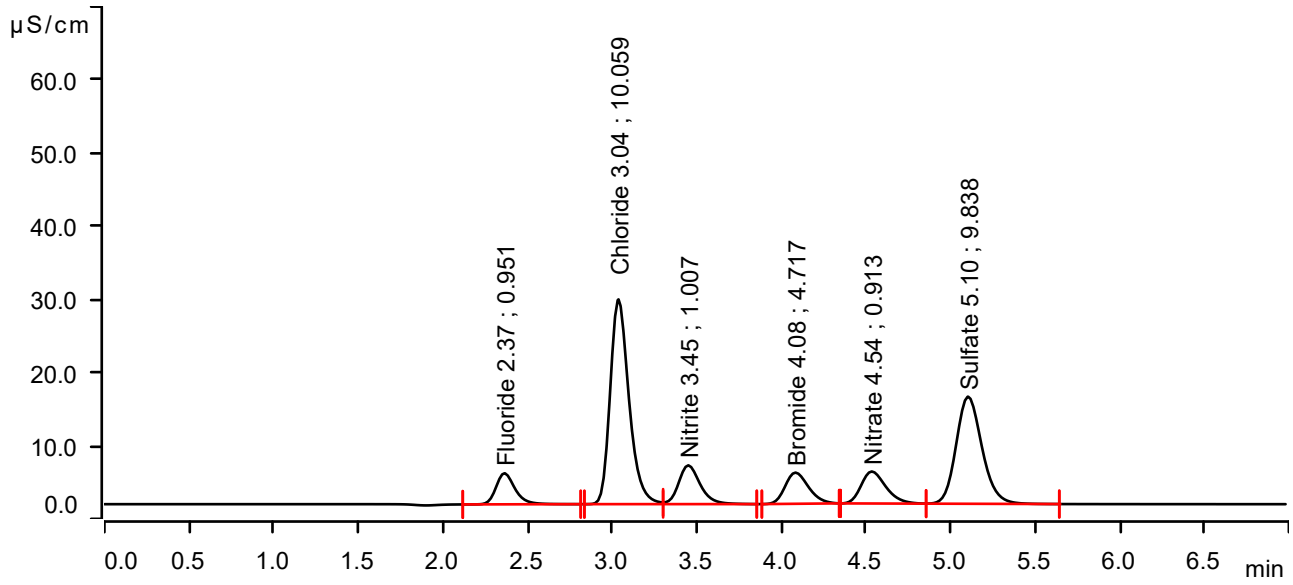
2023-07-21 10:23:18

Injection Time **2023-07-20 20:25:21 UTC-4**

Sample data

Ident	3697505
Sample type	Sample
Position	107
Injections	1
Injection counter	1
Volume	20 µL
Dilution	1
Sample amount	1
Comments (Info 2)	batch lcs
Analyst (Info 3)	J1W
Instrument (Info 4)	IC-12

Anions



Peak number	Component name	Retention time min	Area (µS/cm) x min	Height µS/cm	Concentration ppm
1	Fluoride	2.365	0.5537	4.243	0.951
2	Chloride	3.038	3.6079	27.982	10.059
3	Nitrite	3.450	0.7849	5.297	1.007
4	Bromide	4.083	0.6830	4.258	4.717
5	Nitrate	4.535	0.7408	4.370	0.913
6	Sulfate	5.103	2.5882	14.642	9.838

F Concentration on Column	0.951	ppm
Cl Concentration on Column	10.059	ppm
NO2 Concentration on Column	1.007	ppm
Br Concentration on Column	4.717	ppm
NO3 Concentration on Column	0.913	ppm
SO4 Concentration on Column	9.838	ppm

MagIC Net

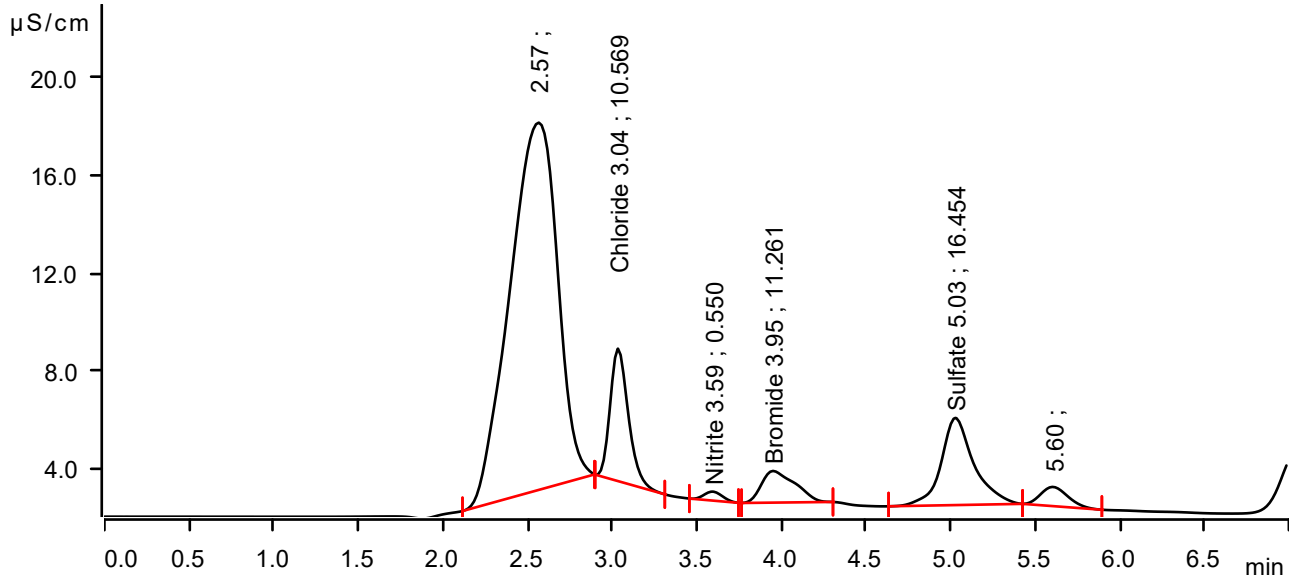
2023-07-21 10:23:20

Injection Time **2023-07-20 20:35:50 UTC-4**

Sample data

Ident	3313761001	
Sample type	Sample	
Position	108	
Injections	1	
Injection counter	1	
Volume	20	µL
Dilution	5	
Sample amount	1	
Comments (Info 2)	FILT	
Analyst (Info 3)	J1W	
Instrument (Info 4)	IC-12	

Anions



Peak number	Component name	Retention time	Area	Height	Concentration
		min	(µS/cm) x min	µS/cm	ppm
2	Chloride	3.035	0.6778	5.428	10.569
3	Nitrite	3.592	0.0459	0.367	0.550
4	Bromide	3.952	0.2975	1.298	11.261
5	Sulfate	5.028	0.7995	3.574	16.454

F Concentration on Column	invalid	ppm
Cl Concentration on Column	2.114	ppm
NO2 Concentration on Column	0.110	ppm
Br Concentration on Column	2.252	ppm
NO3 Concentration on Column	invalid	ppm
SO4 Concentration on Column	3.291	ppm

MagIC Net

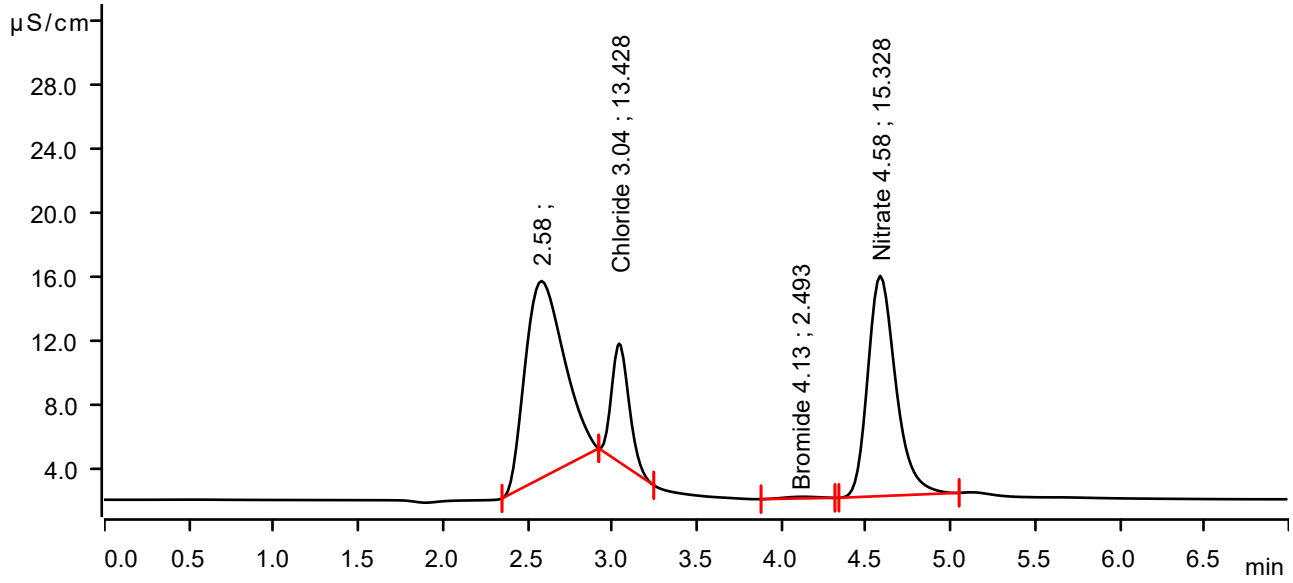
2023-07-21 10:23:21

Injection Time **2023-07-20 20:46:18 UTC-4**

Sample data

Ident	3313790001	
Sample type	Sample	
Position	109	
Injections	1	
Injection counter	1	
Volume	20	µL
Dilution	5	
Sample amount	1	
Comments (Info 2)	FILT	
Analyst (Info 3)	J1W	
Instrument (Info 4)	IC-12	

Anions



Peak number	Component name	Retention time	Area	Height	Concentration
		min	(µS/cm) x min	µS/cm	ppm
2	Chloride	3.042	0.8888	7.396	13.428
3	Bromide	4.127	0.0241	0.103	2.493
4	Nitrate	4.583	2.6453	13.757	15.328

F Concentration on Column	invalid	ppm
Cl Concentration on Column	2.686	ppm
NO2 Concentration on Column	invalid	ppm
Br Concentration on Column	0.499	ppm
NO3 Concentration on Column	3.066	ppm
SO4 Concentration on Column	invalid	ppm

ALS

MagIC Net

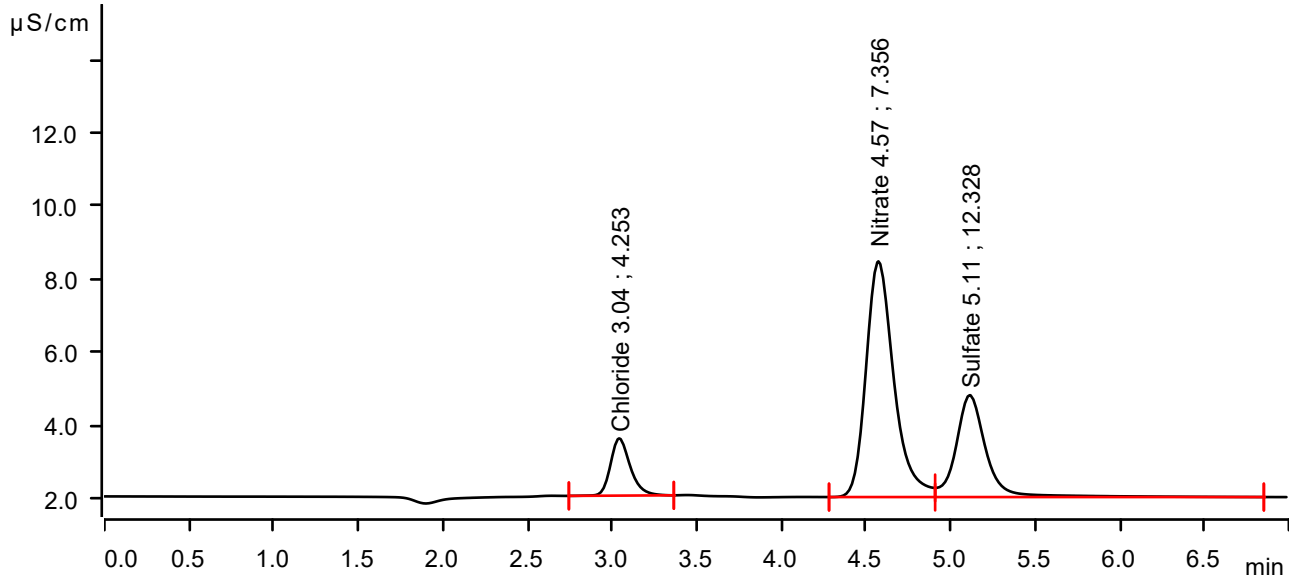
2023-07-21 10:23:22

Injection Time **2023-07-20 20:56:45 UTC-4**

Sample data

Ident	3313810001	
Sample type	Sample	
Position	110	
Injections	1	
Injection counter	1	
Volume	20	µL
Dilution	5	
Sample amount	1	
Comments (Info 2)	FILT	
Analyst (Info 3)	J1W	
Instrument (Info 4)	IC-12	

Anions



Peak number	Component name	Retention time	Area	Height	Concentration
		min	(µS/cm) x min	µS/cm	ppm
1	Chloride	3.042	0.2115	1.565	4.253
2	Nitrate	4.573	1.2315	6.443	7.356
3	Sulfate	5.113	0.5738	2.786	12.328

F Concentration on Column	invalid	ppm
Cl Concentration on Column	0.851	ppm
NO2 Concentration on Column	invalid	ppm
Br Concentration on Column	invalid	ppm
NO3 Concentration on Column	1.471	ppm
SO4 Concentration on Column	2.466	ppm

ALS

MagIC Net

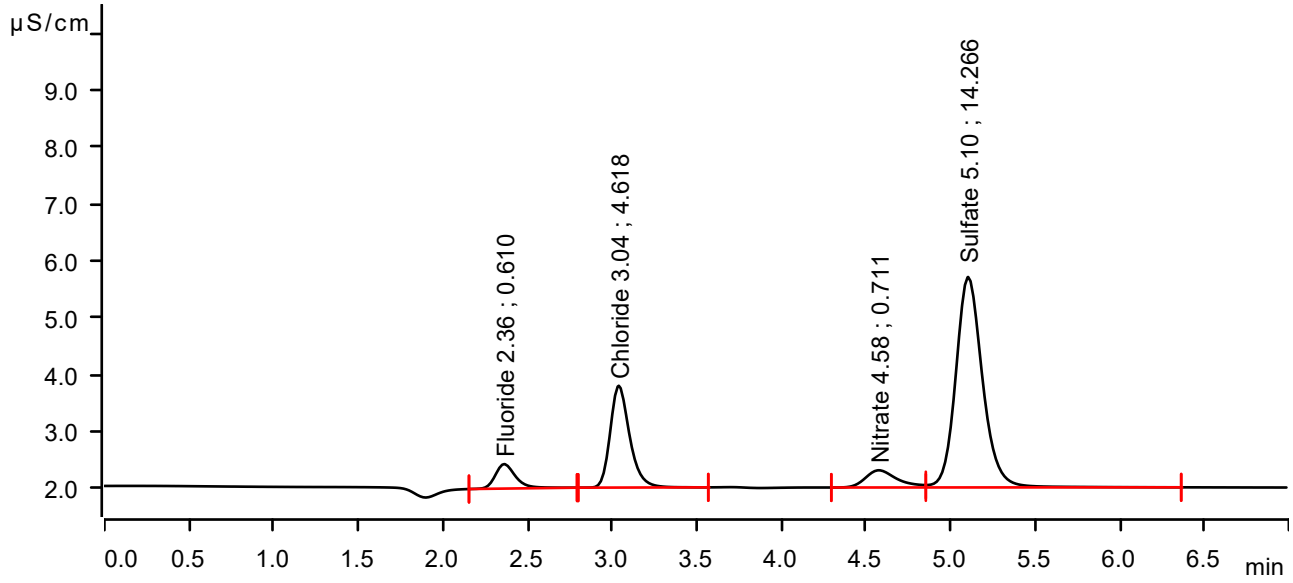
2023-07-21 10:23:23

Injection Time **2023-07-20 21:07:12 UTC-4**

Sample data

Ident	3313846001	
Sample type	Sample	
Position	111	
Injections	1	
Injection counter	1	
Volume	20	µL
Dilution	5	
Sample amount	1	
Comments (Info 2)	FILT	
Analyst (Info 3)	J1W	
Instrument (Info 4)	IC-12	

Anions



Peak number	Component name	Retention time	Area	Height	Concentration
		min	(µS/cm) x min	µS/cm	ppm
1	Fluoride	2.363	0.0600	0.430	0.610
2	Chloride	3.040	0.2385	1.789	4.618
3	Nitrate	4.575	0.0660	0.302	0.711
4	Sulfate	5.103	0.6798	3.698	14.266

F Concentration on Column	0.122	ppm
Cl Concentration on Column	0.924	ppm
NO2 Concentration on Column	invalid	ppm
Br Concentration on Column	invalid	ppm
NO3 Concentration on Column	0.142	ppm
SO4 Concentration on Column	2.853	ppm

ALS

MagIC Net

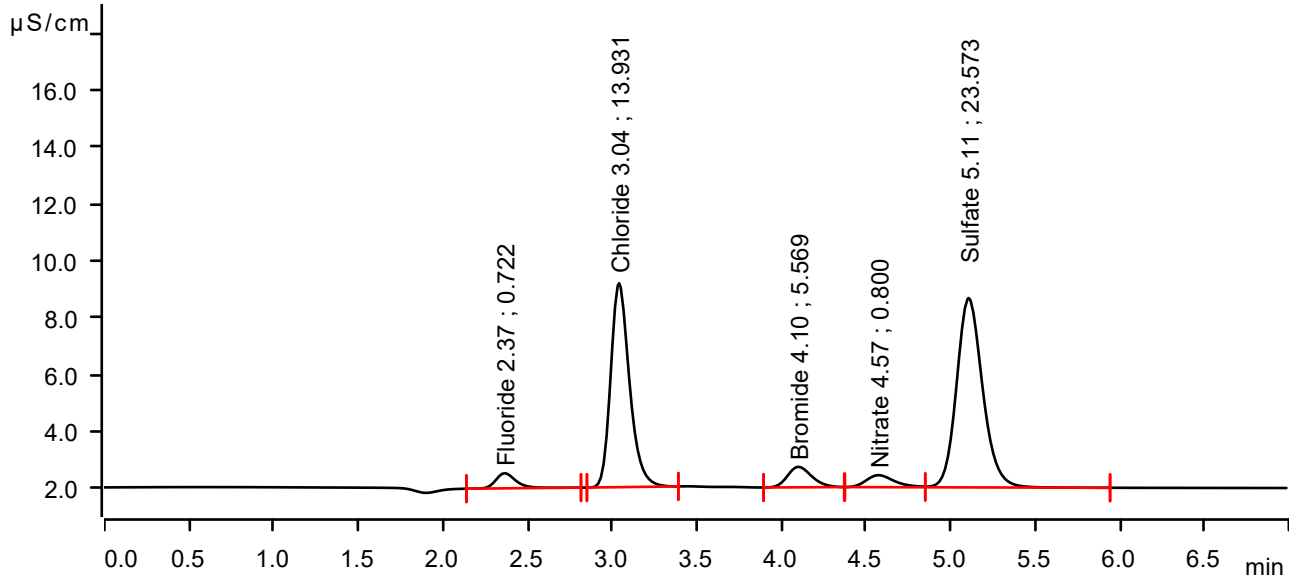
2023-07-21 10:23:24

Injection Time **2023-07-20 21:17:39 UTC-4**

Sample data

Ident	3697506	
Sample type	Spiking 1	
Position	112	
Injections	1	
Injection counter	1	
Volume	20	µL
Dilution	5	
Sample amount	1	
Comments (Info 2)	FILT	
Analyst (Info 3)	J1W	
Instrument (Info 4)	IC-12	

Anions



Peak number	Component name	Retention time	Area	Height	Concentration
		min	(µS/cm) x min	µS/cm	ppm
1	Fluoride	2.367	0.0735	0.532	0.722
2	Chloride	3.042	0.9259	7.167	13.931
3	Bromide	4.100	0.1199	0.721	5.569
4	Nitrate	4.573	0.0816	0.422	0.800
5	Sulfate	5.107	1.1889	6.654	23.573

F Concentration on Column	0.144	ppm
Cl Concentration on Column	2.786	ppm
NO2 Concentration on Column	invalid	ppm
Br Concentration on Column	1.114	ppm
NO3 Concentration on Column	0.160	ppm
SO4 Concentration on Column	4.715	ppm

MagIC Net

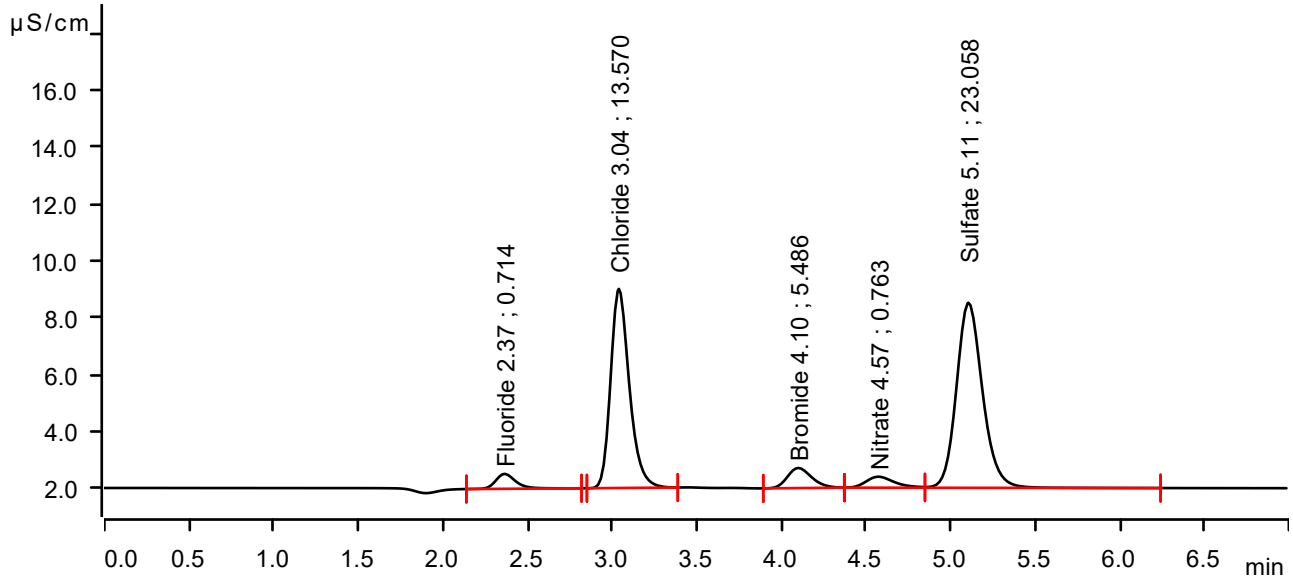
2023-07-21 10:23:25

Injection Time **2023-07-20 21:28:06 UTC-4**

Sample data

Ident	3697507	
Sample type	Spiking 1	
Position	113	
Injections	1	
Injection counter	1	
Volume	20	µL
Dilution	5	
Sample amount	1	
Comments (Info 2)	FILT	
Analyst (Info 3)	J1W	
Instrument (Info 4)	IC-12	

Anions



Peak number	Component name	Retention time	Area	Height	Concentration
		min	(µS/cm) x min	µS/cm	ppm
1	Fluoride	2.365	0.0726	0.523	0.714
2	Chloride	3.040	0.8992	6.997	13.570
3	Bromide	4.100	0.1173	0.706	5.486
4	Nitrate	4.573	0.0751	0.386	0.763
5	Sulfate	5.105	1.1607	6.504	23.058

F Concentration on Column	0.143	ppm
Cl Concentration on Column	2.714	ppm
NO2 Concentration on Column	invalid	ppm
Br Concentration on Column	1.097	ppm
NO3 Concentration on Column	0.153	ppm
SO4 Concentration on Column	4.612	ppm

MagIC Net

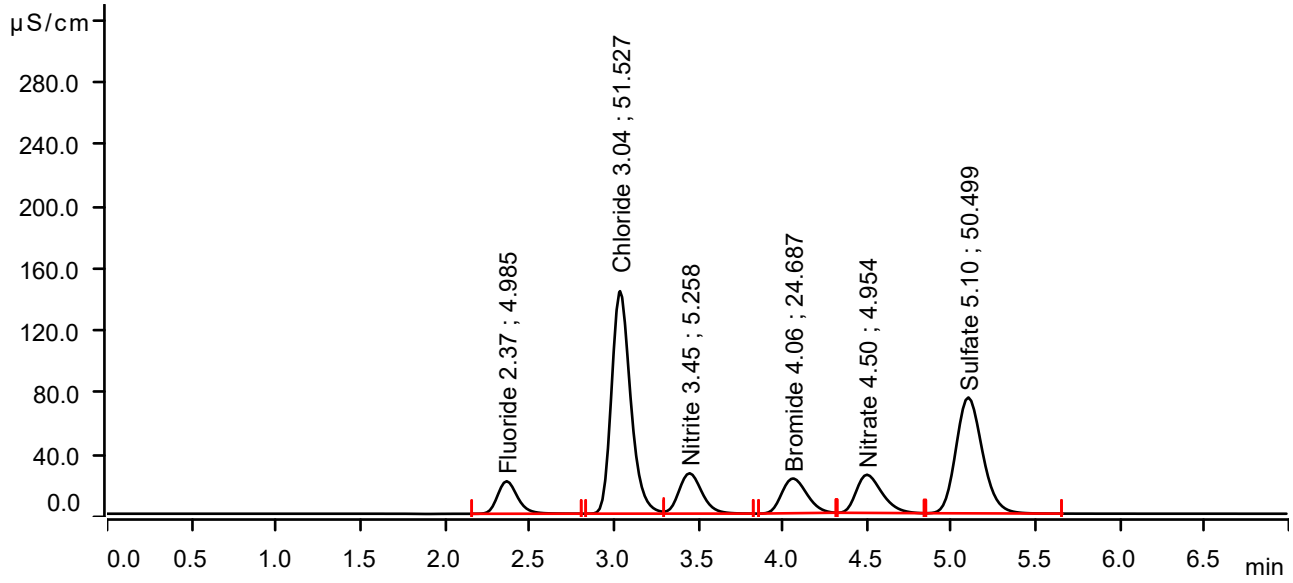
2023-07-21 10:23:26

Injection Time **2023-07-20 21:38:32 UTC-4**

Sample data

Ident	CCV
Sample type	Check standard 3
Position	131
Injections	1
Injection counter	1
Volume	20 µL
Dilution	1
Sample amount	1
Comments (Info 2)	CCV
Analyst (Info 3)	J1W
Instrument (Info 4)	IC-12

Anions



Peak number	Component name	Retention time	Area	Height	Concentration
		min	(µS/cm) x min	µS/cm	ppm
1	Fluoride	2.367	2.8698	20.905	4.985
2	Chloride	3.038	18.8419	143.352	51.527
3	Nitrite	3.450	4.1124	25.975	5.258
4	Bromide	4.062	3.8550	22.329	24.687
5	Nitrate	4.500	4.3411	24.565	4.954
6	Sulfate	5.100	13.5980	74.639	50.499

F Concentration on Column	4.985	ppm
Cl Concentration on Column	51.527	ppm
NO2 Concentration on Column	5.258	ppm
Br Concentration on Column	24.687	ppm
NO3 Concentration on Column	4.954	ppm
SO4 Concentration on Column	50.499	ppm

ALS

MagIC Net

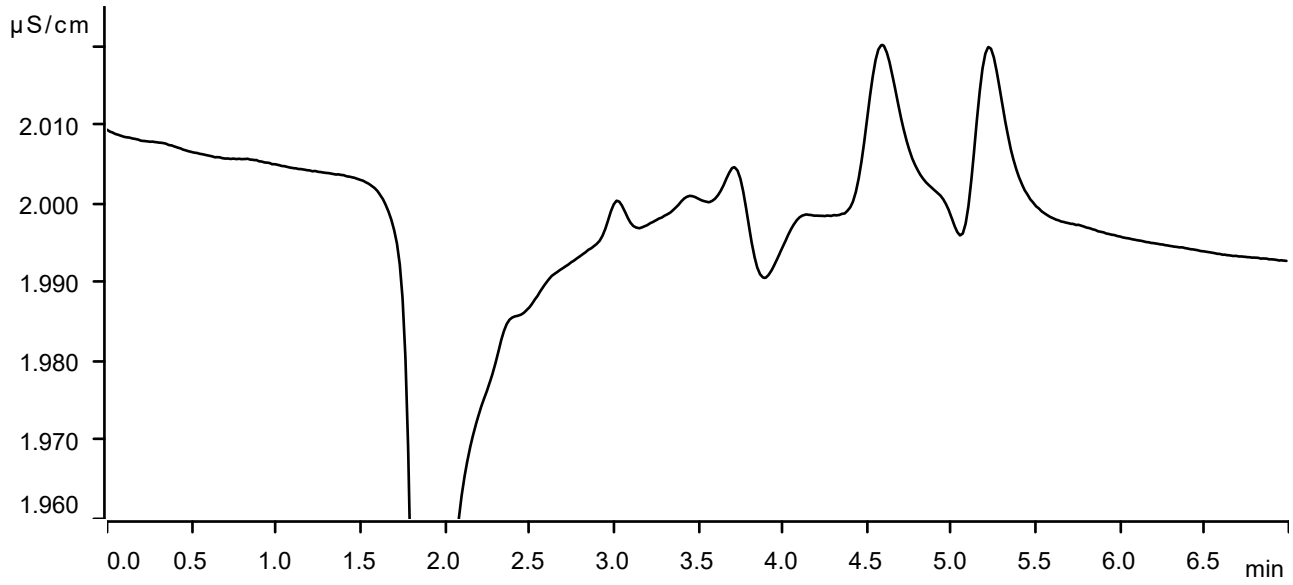
2023-07-21 10:23:27

Injection Time **2023-07-20 21:48:59 UTC-4**

Sample data

Ident	MB	
Sample type	Sample	
Position	120	
Injections	1	
Injection counter	1	
Volume	20	µL
Dilution	1	
Sample amount	1	
Comments (Info 2)	MB	
Analyst (Info 3)	J1W	
Instrument (Info 4)	IC-12	

Anions



F Concentration on Column	invalid	ppm
Cl Concentration on Column	invalid	ppm
NO2 Concentration on Column	invalid	ppm
Br Concentration on Column	invalid	ppm
NO3 Concentration on Column	invalid	ppm
SO4 Concentration on Column	invalid	ppm

ALS

HS23070546 E2300640-IV

ALS WO# HS23070546

July 24, 2023 Service Request No:E2300640

Bernadette Fini
ALS Laboratory Group
10450 Stancliff Road
Suite 210
Houston, TX 77099-4338

Laboratory Results for: HS23070546

Dear Bernadette,

Enclosed are the results of the sample(s) submitted to our laboratory July 19, 2023
For your reference, these analyses have been assigned our service request number **E2300640.**

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. The test results meet requirements of the current TNI standards, where applicable, and except as noted in the laboratory case narrative provided. All results are intended to be considered in their entirety and ALS Environmental is not responsible for use of less than the complete final report. Results apply only to the items submitted to the laboratory, as received for analysis. In accordance with the current TNI Standard, a statement on the estimated uncertainty of measurement of any quantitative analysis will be supplied upon request.

Please contact me if you have any questions. My extension is 2188. You may also contact me via email at James.Guin@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

James Guin

ADDRESS 10450 Stancliff Rd., Suite 210, Houston, TX 77099
PHONE +1 281 530 5656 | FAX +1 281 530 5887
ALS Group USA, Corp.
dba ALS Environmental

Certificate of Analysis

ALS Environmental - Houston Specialties Laboratory
10450 Stancliff Rd., Suite 210, Houston TX 77099
Phone (281)530-5656 Fax (281)530-5887
www.alsglobal.com

ALS Environmental

Client:	ALS Environmental – US	**Service Request No.:**	E2300640
Project:	HS23070546	**Date Received:**	07/19/2023
Sample Matrix:	Ground Water		

CASE NARRATIVE

All analyses were performed in adherence to the quality assurance program of ALS Environmental. This report contains analytical results for samples designated for Tier II. When appropriate to the method, method blank results have been reported with each analytical test.

Sample Receipt

Eight samples were received for analysis at ALS Environmental in Houston on 07/19/2023.

The sample were received in good condition and is consistent with the accompanying chain of custody form. The samples were stored in a refrigerator at 4°C upon receipt at the laboratory.

Data Validation Notes and Discussion

Precision and Accuracy:

EQ2300351: Laboratory Control Spike/Duplicate Laboratory Control Spike (LCS/DLCS) samples were analyzed and reported in addition of MS/MSD for this extraction batch.

The batch precision (MS/DMS) measurements were determined on an unrelated sample in the extraction batch. The MS/DMS results are not included in this report.

The results of analyses are given in the attached laboratory report. All results are intended to be considered in their entirety, and ALS Environmental (ALS) is not responsible for utilization of less than the complete report.

Use of ALS group USA Corp dba ALS Environmental (ALS)'s Name. Client shall not use ALS's name or trademark in any marketing or reporting materials, press releases or in any other manner ("Materials") whatsoever and shall not attribute to ALS any test result, tolerance or specification derived from ALS's data ("Attribution") without ALS's prior written consent, which may be withheld by ALS for any reason in its sole discretion. To request ALS's consent, Client shall provide copies of the proposed Materials or Attribution and describe in writing Client's proposed use of such Materials or Attribution. If ALS has not provided written approval of the Materials or Attribution within ten (10) days of receipt from Client, Client's request to use ALS's name or trademark in any Materials or Attribution shall be deemed denied. ALS may, in its discretion, reasonably charge Client for its time in reviewing Materials or Attribution requests. Client acknowledges and agrees that the unauthorized use of ALS's name or trademark may cause ALS to incur irreparable harm for which the recovery of money damages will be inadequate. Accordingly, Client acknowledges and agrees that a violation shall justify preliminary injunctive relief. For questions contact the laboratory.

Client: ALS Environmental - US **Service Request:**E2300640
Project: HS23070546

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
E2300640-001	16WW58-230711	7/11/2023	0705
E2300640-002	16WW57-230711	7/11/2023	0750
E2300640-003	16WW16-230711	7/11/2023	0845
E2300640-004	16WW34-230711	7/11/2023	0945
E2300640-005	16WW33-230711	7/11/2023	1040
E2300640-006	16WW32-230711	7/11/2023	1125
E2300640-007	16WW31-230711	7/11/2023	1205
E2300640-008	16WW56-230711	7/11/2023	1245

Service Request Summary

Folder #: **E2300640**
Client Name: ALS Environmental - US
Project Name: HS23070546
Project Number:

Report To: Bernadette Fini
ALS Laboratory Group
10450 Stancliff Road
Houston, TX 77099-4338
USA
Phone Number: 281-530-5656
Cell Number:
Fax Number: 281-530-5887
E-mail: bernadette.fini@alsglobal.com

Project Chemist: James Guin
Originating Lab: HOUSTON
Logged By: XMI
Date Received: 07/19/23
Internal Due Date: 7/26/2023
QAP: LAB QAP
Qualifier Set: Lab Standard
Formset: Lab Standard
Merged?: Y
Report to MDL?: Y
P.O. Number: HS23070546
EDD: No EDD Specified

8 120 mL-Plastic Bottle Natural WM Unpreserved
Location: SUBBED
Pressure Gas:

Lab Samp No.	Client Samp No	Matrix	Collected	HOUSTON ClO4 DOD/6850
E2300640-001	16WW58-230711	Ground Water	07/11/23 0705	**IV**
E2300640-002	16WW57-230711	Ground Water	07/11/23 0750	**IV**
E2300640-003	16WW16-230711	Ground Water	07/11/23 0845	**IV**
E2300640-004	16WW34-230711	Ground Water	07/11/23 0945	**IV**
E2300640-005	16WW33-230711	Ground Water	07/11/23 1040	**IV**
E2300640-006	16WW32-230711	Ground Water	07/11/23 1125	**IV**
E2300640-007	16WW31-230711	Ground Water	07/11/23 1205	**IV**
E2300640-008	16WW56-230711	Ground Water	07/11/23 1245	**IV**

Service Request Summary

Folder #: **E2300640**
Client Name: ALS Environmental - US
Project Name: HS23070546
Project Number:

Report To: Bernadette Fini
ALS Laboratory Group
10450 Stancliff Road
Houston, TX 77099-4338
USA
Phone Number: 281-530-5656
Cell Number:
Fax Number: 281-530-5887
E-mail: bernadette.fini@alsglobal.com

Project Chemist: James Guin
Originating Lab: HOUSTON
Logged By: XMI
Date Received: 07/19/23
Internal Due Date: 7/26/2023
QAP: LAB QAP
Qualifier Set: Lab Standard
Formset: Lab Standard
Merged?: Y
Report to MDL?: Y
P.O. Number: HS23070546
EDD: No EDD Specified

8 120 mL-Plastic Bottle Natural WM Unpreserved
Location: SUBBED
Pressure Gas:

Test Comments:

Group	Test/Method	Samples	Comments
Semivoa GCMS	ClO4 DOD/6850	1	MS/MSD

Data Qualifiers

Lab Standard

+	Possible Tedlar bag artifact.
A	TIC is a suspected aldol-condensation product
B	Analyte found in the associated method blank as well as in the sample.
BC	Reported results are not blank corrected.
BH	The back section of the tube yielded higher results than the front.
BT	Results indicated possible breakthrough; back section >=10% front section.
C	Result identification confirmed.
D	Compound identified in an analysis at a secondary dilution factor
D	Spike was diluted out
DE	Reported results are corrected for desorption efficiency.
E	Estimated value. Concentration above calibration range
E	The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
F	The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
H	The chromatographic fingerprint of the sample resembles a petroleum product but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
H1	Sample analysis performed past holding time. See case narrative.
H2	Initial analysis within holding time. Reanalysis for the required dilution was past holding time.
H3	Sample was received and analyzed past holding time.
H4	Sample was extracted past required extraction holding time, but analyzed within analysis holding time. See case narrative.
I	(Auto) The reference ion ratio was outside acceptance criteria, which may indicate a potential bias to this result.
I	Internal standard not within the specified limits. See case narrative.
I	The reference ion ratio was outside acceptance criteria, which may indicate a potential bias to this result.
J	Estimated Value. Concentration found below MRL.
K	A deflection in the QC ion may indicate interference with the quantitation of this ion. The concentration of this analyte should be considered as an estimate.
K	Analyte was detected above the method reporting limit prior to normalization.
K	The reference ion ratio was outside acceptance criteria, which may indicate a potential bias to this result.
L	The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
L1	Laboratory control sample recovery outside the specified limits; results may be biased high.
L2	Laboratory control sample recovery outside the specified limits; results may be biased low.
L3	Laboratory control sample recovery outside the specified limits.
M	Matrix interference; results may be biased high.
M	The duplicate injection precision not met.

Data Qualifiers

Lab Standard

M1	Matrix interference due to coelution with a non-target compound; results may be biased high.
N	Presumptive evidence of a compound for TICs that have been identified based on a mass spectral library search.
N	The Matrix Spike sample recovery is not within control limits. See case narrative.
O	The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
P	Indicates chlorodiphenyl ether interference present at the retention time of the target compound.
P	Pesticide/Aroclor target analyte > 40% difference for detected concentrations between GC columns
Q	Indicates as estimated value because the P and P + 2 theoretical abundance ratio does not meet method criteria.
R	Duplicate Precision not met.
R1	Duplicate precision not within the specified limits; however, the results are below the MRL and considered estimated.
S	Surrogate recovery not within specified limits.
S	The reported value was determined by the Method of Standard Additions (MSA).
T	Analyte is a tentatively identified compound, result is estimated.
U	Compound was analyzed for, but was not detected (ND).
V1	The continuing calibration verification standard was outside (biased high) the specified limits for this compound.
V2	The continuing calibration verification standard was outside (biased low) the specified limits for this compound.
W	Result quantified, but the corresponding peak was detected outside the generated retention time window.
W	The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
X	See case narrative.
Y	Recovery outside limits
Y	The chromatogram resembles a petroleum product but does not match the calibration standard.
Z	The chromatogram does not resemble a petroleum product.
i	The MRL/MDL has been elevated due to a matrix interference.

ALS Laboratory Group

Acronyms

Cal	Calibration
Conc	CONCentration
Dioxin(s)	Polychlorinated dibenzo-p-dioxin(s)
EDL	Estimated Detection Limit
EMPC	Estimated Maximum Possible Concentration
Flags	Data qualifiers
Furan(s)	Polychlorinated dibenzofuran(s)
g	Grams
ICAL	Initial CALibration
ID	IDentifier
Ions	Masses monitored for the analyte during data acquisition
L	Liter (s)
LCS	Laboratory Control Sample
DLCS	Duplicate Laboratory Control Sample
MB	Method Blank
MCL	Method Calibration Limit
MDL	Method Detection Limit
mL	Milliliters
MS	Matrix Spiked sample
DMS	Duplicate Matrix Spiked sample
NO	Number of peaks meeting all identification criteria
PCDD(s)	Polychlorinated dibenzo-p-dioxin(s)
PCDF(s)	Polychlorinated dibenzofuran(s)
ppb	Parts per billion
ppm	Parts per million
ppq	Parts per quadrillion
ppt	Parts per trillion
QA	Quality Assurance
QC	Quality Control
Ratio	Ratio of areas from monitored ions for an analyte
% Rec.	Percent recovery
RPD	Relative Percent Difference
RRF	Relative Response Factor
RT	Retention Time
SDG	Sample Delivery Group
S/N	Signal-to-noise ratio
TEF	Toxicity Equivalence Factor
TEQ	Toxicity Equivalence Quotient

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ALS Environmental

State Certifications, Accreditations, and Licenses

Agency	Number	Expire Date
Arizona Department of Health Services	AZ0793_2024	5/27/2024
Arkansas Department of Environmental Quality	88-00356	3/27/2024
California State Environmental Laboratory Accreditation Program	2919	4/30/2024
Department of Defense	L22-90	3/31/2024
Department of Defense	L23-358	5/31/2025
Florida Department of Health	E87611-38	6/30/2024
Illinois Environmental Protection Agency	2000322023-11	6/30/2024
Kansas Department of Health and Environment	E-10352 2022-2023	7/31/2023
Louisiana Department of Environmental Quality	03087-2023	6/30/2024
Louisiana Department of Health and Hospitals	LA028-2023	12/31/2023
Maine Department of Health and Human Services	2022017	6/5/2024
Maryland Department of the Environment	343	7/31/2023
Michigan Depratment of Environmental Quality	9971-2023	4/30/2024
Minnesota Department of Health	2368363	12/31/2023
Nebraska Department of Health and Human Services	NE-OS-25-13	4/30/2024
Nevada Department of Conservation and Natural Resources	TX026932023-1	7/31/2023
New Hampshire Environmental Laboratory Accreditation Program	209423	4/24/2024
New Jersey Department of Environmental Protection	TX008-2024	6/30/2024
New York Department of Health	11707	3/31/2024
Oklahoma Department of Environmental Quality	2022-141	8/31/2023
Pennsylvania Department of Environmental Protection	68-03441-017	6/30/2024
Perry Johnson Laboratory Accreditation	L22-91	3/31/2024
Tennessee Department of Environment and Concervation	TN04016-2023	4/30/2024
Texas Commision on Environmental Quality	T104704231-23-30	4/30/2024
Utah Department of Health Environmental Laboratory Certification	TX026932022-13	7/31/2023
Washington Department of Ecology	C819-22	11/14/2023

ALS

Chain of Custody

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Subcontract Chain of Custody

E2300640

SAMPLING STATE: **Dept of Defense**

COC ID: **22345**

E2300640 **5**
ALS Laboratory Group
HS23070546

SUBCONTRACT TO:

ALS Environmental
10450 Stancliff RoadSuite 210
Houston, TX 77084

Phone: +1 281 530 5656

CUSTOMER INFORMATION:

Company:	ALS Houston
Contact:	James Guin
Address:	10450 Stancliff Rd, Ste 210
Phone:	+1 281 530 5656
Email:	James.Guin@alsglobal.com
Alternate Contact:	Jumoke M. Lawal
Email:	jumoke.lawal@alsglobal.com

INVOICE INFORMATION:

Company:	ALS Houston
Contact:	Accounts Payable
Address:	10450 Stancliff Rd, Ste 210
Phone:	+1 281 530 5656
Reference:	HS23070546
TSR:	Ron Martino

	LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	COLLECT DATE
	ANALYSIS REQUESTED			DUE DATE
1.	**HS23070546-01**	**16WW58-230711**	**Groundwater**	**11 Jul 2023 07:05**
	6850 Perchlorate; separte Level II & Level IV PDF; EQUIS EDD LHAAP			26 Jul 2023
2.	**HS23070546-02**	**16WW57-230711**	**Groundwater**	**11 Jul 2023 07:50**
	6850 Perchlorate; separte Level II & Level IV PDF; EQUIS EDD LHAAP			26 Jul 2023
3.	**HS23070546-03**	**16WW16-230711**	**Groundwater**	**11 Jul 2023 08:45**
	6850 Perchlorate; separte Level II & Level IV PDF; EQUIS EDD LHAAP			26 Jul 2023
4.	**HS23070546-04**	**16WW34-230711**	**Groundwater**	**11 Jul 2023 09:45**
	6850 Perchlorate; separte Level II & Level IV PDF; EQUIS EDD LHAAP			26 Jul 2023
5.	**HS23070546-05**	**16WW33-230711**	**Groundwater**	**11 Jul 2023 10:40**
	6850 Perchlorate; separte Level II & Level IV PDF; EQUIS EDD LHAAP			26 Jul 2023
6.	**HS23070546-06**	**16WW32-230711**	**Groundwater**	**11 Jul 2023 11:25**
	6850 Perchlorate; separte Level II & Level IV PDF; EQUIS EDD LHAAP			26 Jul 2023
7.	**HS23070546-07**	**16WW31-230711**	**Groundwater**	**11 Jul 2023 12:05**
	6850 Perchlorate; separte Level II & Level IV PDF; EQUIS EDD LHAAP			26 Jul 2023
8.	**HS23070546-08**	**16WW56-230711**	**Groundwater**	**11 Jul 2023 12:45**

Subcontract Chain of Custody

SAMPLING STATE: **Dept of Defense** **COC ID: 22345**

LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	COLLECT DATE
ANALYSIS REQUESTED			DUE DATE
6850 Perchlorate; separte Level II & Level IV PDF; EQUIS EDD LHAAP			26 Jul 2023

Comments: Please analyze for the analysis listed above.
Send report to the emails shown above.
HS23070546-03 = ms/msd

QC Level: DOD IV (DoD Data Package)

Relinquished By: _____ Date/Time: _____

Received By: _____ Date/Time: 7.19.23 1400

Cooler ID(s): _____ Temperature(s): _____

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Client: ALS Date: 7-14-25 WO#:

Time Received: 1400 Received by: CS BO#:

Matrices: Solid/Sludge Water Oil Wipes Hydrocarbon Liquid Other

Kit ID/Cooler ID	Trip Blank ID	Cooler Temp (C) Observed/Corrected	IR #	Temp BLK Present?
—		4.1 / 4.0	31	Y N
		/		Y N
		/		Y N
		/		Y N
		/		Y N

Delivery Method: FedEx UPS Greyhound ALS Client Other

Date/Time of Unpacking: 7-14-25 Unpacked by: CS

Shipping container/cooler in good condition?	~~Yes~~	No	Not Present
Custody seals intact on shipping container/cooler?	Yes	No	~~Not Present~~
Custody seals intact on sample bottles?	Yes	No	~~Not Present~~
Chain of Custody present?	~~Yes~~	No	
Chain of Custody signed when relinquished and received?	~~Yes~~	No	
Chain of Custody – Sampler's name present?	Yes	~~No~~	
Chain of Custody agrees with sample labels?	~~Yes~~	No	
Samples in proper container/bottle?	~~Yes~~	No	
VOA/TX1005/1006 Solids in hermetically Sealed Vials:	Yes	No	No VOA/TX1005/1006 Solid
Sample containers intact?	~~Yes~~	No	
Sufficient sample volume for indicated test?	~~Yes~~	No	
All samples received within holding time?	~~Yes~~	No	
Container/Temp Blank temperature in compliance?	~~Yes~~	No	
Water - VOA vials have zero headspace?	Yes	No	N/A ~~No VOA submitted~~
Non-VOA waters preserved with HCl, H2SO4, HNO3 are pH <2?			Yes No ~~N/A~~
Waters preserved with NaOH/Ascorbic acid are pH>12?	Yes	No	~~N/A~~
pH adjusted?	Yes*	No	~~N/A~~ *See Preservation Logbook
pH adjusted by: _____			**pH Paper Lot:** _____

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SAMPLE ACCEPTANCE POLICY

This policy outlines the criteria samples must meet to be accepted by ALS Environmental – Houston HRMS.

Cooler Custody Seals (desirable, mandatory if specified in SAP):

- ✓ Intact on outside of cooler, signed and dated

Chain-of-Custody (COC) documentation (mandatory):

The following is required on each COC:

- ✓ Sample ID, the location, date and time of collection, collector's name, preservation type, sample type, and any other special remarks concerning the sampleThe COC must be completed in ink.
- ✓ Signature and date of relinquishing party.

In the absence of a COC at sample receipt, the COC will be requested from the client.

Sample Integrity (mandatory):

Samples are inspected upon arrival to ensure that sample integrity was not compromised during transfer to the laboratory.

- ✓ Sample containers must arrive in good condition (not broken or leaking).
- ✓ Samples must be labeled appropriately, including Sample IDs, and requested test using durable labels and indelible ink.
- ✓ The correct type of sample bottle must be used for the method requested.
- ✓ An appropriate sample volume, or weight, must be received.
- ✓ Sample IDs and number of containers must reconcile with the COC.
- ✓ Samples must be received within the method defined holding time.

Temperature Requirement (varies by sample matrix):

- ✓ Aqueous and Non-aqueous samples must be shipped and stored cold, at 0 to 6ºC.
- ✓ Tissue samples must be shipped and stored frozen, at -20 to -10ºC.
- ✓ Air samples are shipped and stored cold, at 0 to 6ºC
- ✓ The sample temperature must be recorded on the COC

All cooler inspections are documented on the Cooler Receipt Form (CRF). A separate CRF is completed for each service request. Any samples not meeting the above criteria are noted on the CRF and the Project Manager notified. The Project Manager must resolve any sample integrity issues with the client prior to proceeding with the analysis. Such resolutions are documented in writing and filed with the project folder. Data associated with samples received outside of this acceptance policy will be qualified on the case narrative of the final report

Preparation Information Benchsheets

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Phone (281)530-5656 Fax (281)530-5887
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Preparation Information Benchsheet

Prep Run#: 423453 **Prep WorkFlow:** GenExt28Day **Status:** Prepped
Team: Semivoa GCMS/XMI **Prep Method:** Method **Prep Date/Time:** 7/20/23 10:26

#	Lab Code	Client ID	B#	Method /Test	pH	Cl	Matrix	Amt. Ext.	Sample Description
1	E2300640-001	16WW58-230711	.01	6850/ClO4 DOD			Ground Water	10mL	
2	E2300640-002	16WW57-230711	.01	6850/ClO4 DOD			Ground Water	10mL	
3	E2300640-003	16WW16-230711	.01	6850/ClO4 DOD			Ground Water	10mL	
4	E2300640-004	16WW34-230711	.01	6850/ClO4 DOD			Ground Water	10mL	
5	E2300640-005	16WW33-230711	.01	6850/ClO4 DOD			Ground Water	10mL	
6	E2300640-006	16WW32-230711	.01	6850/ClO4 DOD			Ground Water	10mL	
7	E2300640-007	16WW31-230711	.01	6850/ClO4 DOD			Ground Water	10mL	
8	E2300640-008	16WW56-230711	.01	6850/ClO4 DOD			Ground Water	10mL	
9	E2300641-001	16WW55-230712	.01	6850/ClO4 DOD			Ground Water	10mL	
10	E2300641-002	16WW41-230712	.01	6850/ClO4 DOD			Ground Water	10mL	
11	E2300641-003	16WW48-230712	.01	6850/ClO4 DOD			Ground Water	10mL	
12	E2300641-004	16WW48-230712-FD	.01	6850/ClO4 DOD			Ground Water	10mL	
13	E2300641-005	16EW03-230712	.01	6850/ClO4 DOD			Ground Water	10mL	
14	E2300641-006	16WW35-230712	.01	6850/ClO4 DOD			Ground Water	10mL	
15	E2300641-007	16WW36-230712	.01	6850/ClO4 DOD			Ground Water	10mL	
16	E2300641-008	16WW25-230712	.01	6850/ClO4 DOD			Ground Water	10mL	
17	E2300641-009	16WW26-230712	.01	6850/ClO4 DOD			Ground Water	10mL	
18	E2300641-010	16WW66-230712-FD	.01	6850/ClO4 DOD			Ground Water	10mL	
19	EQ2300351-01	MB		6850/ClO4 DOD			Liquid	10mL	
20	EQ2300351-02	LCS		6850/ClO4 DOD			Liquid	10mL	
21	EQ2300351-03	DLCS		6850/ClO4 DOD			Liquid	10mL	
22	EQ2300351-04	16WW16-230711 MS	.01	6850/ClO4 DOD			Liquid	10mL	
23	EQ2300351-05	16WW16-230711 DMS	.01	6850/ClO4 DOD			Liquid	10mL	

Spiking Solutions

Name: Perchlorate Intermediate Stock1 Inventory ID 227236 Logbook Ref: Perchlorate (1st Source) Expires On: 07/31/2023

EQ2300351-02 1.00µL EQ2300351-03 1.00µL EQ2300351-04 1.00µL EQ2300351-05 1.00µL

Name: Perchlorate Internal Standard 1ug/mL Inventory ID 227244 Logbook Ref: Perchlorate Internal Standard Expires On: 07/31/2023

E2300640-001	100.00µL	E2300640-002	100.00µL	E2300640-003	100.00µL	E2300640-004	100.00µL	E2300640-005	100.00µL	E2300640-006	100.00µL
E2300640-007	100.00µL	E2300640-008	100.00µL	E2300641-001	100.00µL	E2300641-002	100.00µL	E2300641-003	100.00µL	E2300641-004	100.00µL
E2300641-005	100.00µL	E2300641-006	100.00µL	E2300641-007	100.00µL	E2300641-008	100.00µL	E2300641-009	100.00µL	E2300641-010	100.00µL
EQ2300351-01	100.00µL	EQ2300351-02	100.00µL	EQ2300351-03	100.00µL	EQ2300351-04	100.00µL	EQ2300351-05	100.00µL		

Preparation Information Benchsheet

Prep Run#: 423453 **Prep WorkFlow:** GenExt28Day **Status:** Prepped
Team: Semivoa GCMS/XMI **Prep Method:** Method **Prep Date/Time:** 7/20/23 10:26

Preparation Materials

Water HPLC Grade	HPLC water 5/18/23CG (229315)	6850 Amber Glass screw vial	2mL Screw Top Vial (221894)	6850 0.45um syringe filters	6850 0.45 SYRING FILTER (229979)
6850 Luer-Lok Syringes	luer-lock syringes (228116)				

Preparation Steps

Step: Preparation
Started: 7/20/23 10:26
Finished: 7/20/23 11:30
By: XMI
Comments

Comments: _____

Reviewed By: _____ Date: _____

Chain of Custody

Relinquished By: _____ Date: _____ Extracts Examined

Received By: _____ Date: _____ Yes No

Analytical Results

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ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300640
Project:	HS23070546	**Date Collected:**	7/11/23 0705
Sample Matrix:	Ground Water	**Date Received:**	7/19/23
Sample Name:	16WW58-230711	**Units:**	µg/L
Lab Code:	E2300640-001	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	ND	U	0.100	0.0500	0.0250	1	7/20/23	7/21/23 13:31	423453	811523	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300640
Project:	HS23070546	**Date Collected:**	7/11/23 0750
Sample Matrix:	Ground Water	**Date Received:**	7/19/23
Sample Name:	16WW57-230711	**Units:**	µg/L
Lab Code:	E2300640-002	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	ND	U	0.100	0.0500	0.0250	1	7/20/23	7/21/23 13:36	423453	811523	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300640
Project:	HS23070546	**Date Collected:**	7/11/23 0845
Sample Matrix:	Ground Water	**Date Received:**	7/19/23
Sample Name:	16WW16-230711	**Units:**	µg/L
Lab Code:	E2300640-003	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	**716**		2.00	1.00	0.500	20	7/20/23	7/21/23 13:42	423453	811523	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300640
Project:	HS23070546	**Date Collected:**	7/11/23 0945
Sample Matrix:	Ground Water	**Date Received:**	7/19/23
Sample Name:	16WW34-230711	**Units:**	µg/L
Lab Code:	E2300640-004	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	ND	U	0.100	0.0500	0.0250	1	7/20/23	7/21/23 14:09	423453	811523	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300640
Project:	HS23070546	**Date Collected:**	7/11/23 1040
Sample Matrix:	Ground Water	**Date Received:**	7/19/23
Sample Name:	16WW33-230711	**Units:**	µg/L
Lab Code:	E2300640-005	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	ND	U	0.100	0.0500	0.0250	1	7/20/23	7/21/23 14:15	423453	811523	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300640
Project:	HS23070546	**Date Collected:**	7/11/23 1125
Sample Matrix:	Ground Water	**Date Received:**	7/19/23
Sample Name:	16WW32-230711	**Units:**	µg/L
Lab Code:	E2300640-006	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	ND	U	0.100	0.0500	0.0250	1	7/20/23	7/21/23 14:20	423453	811523	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300640
Project:	HS23070546	**Date Collected:**	7/11/23 1205
Sample Matrix:	Ground Water	**Date Received:**	7/19/23
Sample Name:	16WW31-230711	**Units:**	µg/L
Lab Code:	E2300640-007	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	ND	U	0.100	0.0500	0.0250	1	7/20/23	7/21/23 14:26	423453	811523	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300640
Project:	HS23070546	**Date Collected:**	7/11/23 1245
Sample Matrix:	Ground Water	**Date Received:**	7/19/23
Sample Name:	16WW56-230711	**Units:**	µg/L
Lab Code:	E2300640-008	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	ND	U	0.100	0.0500	0.0250	1	7/20/23	7/21/23 14:31	423453	811523	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300640
Project:	HS23070546	**Date Collected:**	NA
Sample Matrix:	Ground Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	µg/L
Lab Code:	EQ2300351-01	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	ND	U	0.100	0.0500	0.0250	1	7/20/23	7/21/23 13:14	423453	811523	

Accuracy & Precision

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ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS23070546
Sample Matrix: Ground Water

Service Request: E2300640
Date Analyzed: 7/21/23

Lab Control Sample Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Units: µg/L
Basis: NA

Extraction Lot: 423453

	Lab Control Sample EQ2300351-02			Duplicate Lab Control Sample EQ2300351-03					
Analyte Name	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Perchlorate	0.0922	0.100	92	0.0959	0.100	96	84 - 119	4	15

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300640
Project:	HS23070546	**Date Collected:**	NA
Sample Matrix:	Ground Water	**Date Received:**	NA
Sample Name:	Lab Control Sample	**Units:**	µg/L
Lab Code:	EQ2300351-02	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	**0.0922**	J	0.100	0.0500	0.0250	1	7/20/23	7/21/23 13:20	423453	811523	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300640
Project:	HS23070546	**Date Collected:**	NA
Sample Matrix:	Ground Water	**Date Received:**	NA
Sample Name:	Duplicate Lab Control Sample	**Units:**	µg/L
Lab Code:	EQ2300351-03	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	**0.0959**	J	0.100	0.0500	0.0250	1	7/20/23	7/21/23 13:25	423453	811523	

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client:	ALS Environmental - US	**Service Request:**	E2300640
Project:	HS23070546	**Date Collected:**	7/11/23
Sample Matrix:	Ground Water	**Date Received:**	7/19/23
		Date Analyzed:	7/21/23

Matrix Spike Summary

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Sample Name:	16WW16-230711	**Units:**	µg/L
Lab Code:	E2300640-003	**Basis:**	NA

Analytical Method: 6850
Prep Method: Method

		16WW16-230711MS				16WW16-230711DMS					
		Matrix Spike				**Duplicate Matrix Spike**					
		EQ2300351-04				EQ2300351-05					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**% Rec**		**Result**	**Spike Amount**	**% Rec**		**% Rec Limits**	**RPD**	**RPD Limit**
Perchlorate	716	794	0.100	78079	#	782	0.100	66627	#	84 - 119	1	15

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300640
Project:	HS23070546	**Date Collected:**	7/11/23 0845
Sample Matrix:	Ground Water	**Date Received:**	7/19/23
Sample Name:	16WW16-230711	**Units:**	µg/L
Lab Code:	EQ2300351-04	**Basis:**	NA
Run Type:	Matrix Spike		

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	**794**	E	0.100	0.0500	0.0250	1	7/20/23	7/21/23 13:47	423453	811523	*

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300640
Project:	HS23070546	**Date Collected:**	7/11/23 0845
Sample Matrix:	Ground Water	**Date Received:**	7/19/23
Sample Name:	16WW16-230711	**Units:**	µg/L
Lab Code:	EQ2300351-05	**Basis:**	NA
Run Type:	Duplicate Matrix Spike		

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	**782**	E	0.100	0.0500	0.0250	1	7/20/23	7/21/23 13:53	423453	811523	*

Initial Calibration

ALS Environmental - Houston HRMS
10450 Stancliff Rd., Suite 210, Houston, TX 77099
Phone (713)266-1599 Fax (713)266-0130
www.alsglobal.com

20230629-809329

Injection Log

LCMS01 -Shimadzu 8050

1st Review: XM
2nd Review: GC

ICAL Date: 6/29/2023
Cal. Std. xp: 06/29/2023
ICAL ID: EC2300011

Mobile Phases : A:20mM ammonium acetate in water 32103046 **B:**Acetonitrile 226552

	Sample Name		File Name	Acquisition Method	Dilution	Comments	Date/Time
1	PERCHLORATE1		20230629-001	Perchlorate6850c.lcm	1x	227245	6/29/2023 12:59
2	PERCHLORATE2		20230629-002	Perchlorate6850c.lcm	1x	227246	6/29/2023 13:05
3	PERCHLORATE3		20230629-003	Perchlorate6850c.lcm	1x	227247	6/29/2023 13:10
4	PERCHLORATE4		20230629-004	Perchlorate6850c.lcm	1x	227248	6/29/2023 13:16
5	PERCHLORATE5		20230629-005	Perchlorate6850c.lcm	1x	227249	6/29/2023 13:21
6	PERCHLORATE6		20230629-006	Perchlorate6850c.lcm	1x	227250	6/29/2023 13:27
7	PERCHLORATE7		20230629-007	Perchlorate6850c.lcm	1x	227251	6/29/2023 13:32
8	PERCHLORATE8		20230629-008	Perchlorate6850c.lcm	1x	227252	6/29/2023 13:38
9	PERCHLORATE9		20230629-009	Perchlorate6850c.lcm	1x	227253	6/29/2023 13:43
10	PERCHLORATE10		20230629-010	Perchlorate6850c.lcm	1x	227254	6/29/2023 13:49
11	PERCHLORATEICV		20230629-011	Perchlorate6850c.lcm	1x	227256	6/29/2023 13:55
12	IB		20230629-012	Perchlorate6850c.lcm	1x		6/29/2023 14:00
13	LODV		20230629-013	Perchlorate6850c.lcm	1x	227501	6/29/2023 14:06
14	ICS		20230629-014	Perchlorate6850c.lcm	1x	32103024	6/29/2023 14:11
15	CCV		20230629-015	Perchlorate6850c.lcm	1x	227251	6/29/2023 14:17
16	EQ2300312-01		20230629-016	Perchlorate6850c.lcm	1x		6/29/2023 14:22
17	EQ2300312-02		20230629-017	Perchlorate6850c.lcm	1x	DNU-RR	6/29/2023 14:28
18	EQ2300312-03		20230629-018	Perchlorate6850c.lcm	1x		6/29/2023 14:33
19	E2300606-001		20230629-019	Perchlorate6850c.lcm	10x		6/29/2023 14:39
20	EQ2300312-04		20230629-020	Perchlorate6850c.lcm	1x		6/29/2023 14:44
21	EQ2300312-05		20230629-021	Perchlorate6850c.lcm	1x		6/29/2023 14:50
22	E2300606-002		20230629-022	Perchlorate6850c.lcm	5x		6/29/2023 14:55
23	E2300606-003		20230629-023	Perchlorate6850c.lcm	10x		6/29/2023 15:01
24	E2300606-004		20230629-024	Perchlorate6850c.lcm	10x		6/29/2023 15:06
25	E2300606-005		20230629-025	Perchlorate6850c.lcm	1x		6/29/2023 15:12
26	CCV		20230629-026	Perchlorate6850c.lcm	1x	227251	6/29/2023 15:17
27	E2300606-006		20230629-027	Perchlorate6850c.lcm	1x		6/29/2023 15:23
28	E2300606-007		20230629-028	Perchlorate6850c.lcm	500x		6/29/2023 15:28
29	E2300606-008		20230629-029	Perchlorate6850c.lcm	100x		6/29/2023 15:34
30	EQ2300312-06		20230629-030	Perchlorate6850c.lcm	100x		6/29/2023 15:40
31	EQ2300312-07		20230629-031	Perchlorate6850c.lcm	100x		6/29/2023 15:45
32	E2300606-009		20230629-032	Perchlorate6850c.lcm	1x		6/29/2023 15:53
33	E2300610-001		20230629-033	Perchlorate6850c.lcm	10000x		6/29/2023 15:58
34	E2300610-002		20230629-034	Perchlorate6850c.lcm	1x		6/29/2023 16:04
35	E2300610-003		20230629-035	Perchlorate6850c.lcm	1x		6/29/2023 16:09
36	E2300610-004		20230629-036	Perchlorate6850c.lcm	1x		6/29/2023 16:15
37	CCV		20230629-037	Perchlorate6850c.lcm	1x	227251	6/29/2023 16:21

20230629-809329

Injection Log

LCMS01 -Shimadzu 8050

1st Review: XM
2nd Review: GC

ICAL Date: 6/29/2023
Cal. Std. xp: 06/29/2023
ICAL ID: EC2300011

Mobile Phases : A:20mM ammonium acetate in water 32103046 **B:**Acetonitrile 226552

	Sample Name		File Name	Acquisition Method	Dilution	Comments	Date/Time
38	E2300610-005		20230629-038	Perchlorate6850c.lcm	1x		6/29/2023 16:26
39	E2300610-006		20230629-039	Perchlorate6850c.lcm	1x		6/29/2023 16:32
40	E2300610-007		20230629-040	Perchlorate6850c.lcm	1x		6/29/2023 16:37
41	E2300610-008		20230629-041	Perchlorate6850c.lcm	1x	DNU-D	6/29/2023 16:43
42	EQ2300312-08		20230629-042	Perchlorate6850c.lcm	1x		6/29/2023 16:48
43	EQ2300312-09		20230629-043	Perchlorate6850c.lcm	1x		6/29/2023 16:54
44	E2300611-001		20230629-044	Perchlorate6850c.lcm	1x		6/29/2023 16:59
45	E2300611-002		20230629-045	Perchlorate6850c.lcm	1x		6/29/2023 17:05
46	E2300611-003		20230629-046	Perchlorate6850c.lcm	1x		6/29/2023 17:10
47	E2300611-004		20230629-047	Perchlorate6850c.lcm	1x	DNU-D	6/29/2023 17:16
48	CCV		20230629-048	Perchlorate6850c.lcm	1x	227251	6/29/2023 17:21
49	E2300611-005		20230629-049	Perchlorate6850c.lcm	1x		6/29/2023 17:27
50	E2300611-006		20230629-050	Perchlorate6850c.lcm	1x	DNU-D	6/29/2023 17:32
51	E2300611-007		20230629-051	Perchlorate6850c.lcm	1x	DNU-D	6/29/2023 17:38
52	E2300611-008		20230629-052	Perchlorate6850c.lcm	1x		6/29/2023 17:43
53	E2300611-009		20230629-053	Perchlorate6850c.lcm	1x		6/29/2023 17:49
54	E2300611-010		20230629-054	Perchlorate6850c.lcm	1x		6/29/2023 17:55
55	CCV		20230629-055	Perchlorate6850c.lcm	1x	227251	6/29/2023 18:06

Initial Calibration - Detailed Report

Calibration ID: EC2300011 **Instrument ID:** E-LCMS-01
Column Name: 1

#	Lab Code	Sample Name	File Location	Aquisition Date
01	EC2300011-01	PERCHLORATE1	20230629-001	06/29/2023 12:59
02	EC2300011-02	PERCHLORATE2	20230629-002	06/29/2023 13:05
03	EC2300011-03	PERCHLORATE3	20230629-003	06/29/2023 13:10
04	EC2300011-04	PERCHLORATE4	20230629-004	06/29/2023 13:16
05	EC2300011-05	PERCHLORATE5	20230629-005	06/29/2023 13:21
06	EC2300011-06	PERCHLORATE6	20230629-006	06/29/2023 13:27
07	EC2300011-07	PERCHLORATE7	20230629-007	06/29/2023 13:32
08	EC2300011-08	PERCHLORATE8	20230629-008	06/29/2023 13:38
09	EC2300011-09	PERCHLORATE9	20230629-009	06/29/2023 13:43
10	EC2300011-10	PERCHLORATE10	20230629-010	06/29/2023 13:49

Analyte **Curve Fit** **Weighting**

Perchlorate **Average RF** **RSD = 2.809** **Average RF = 0.1625**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.1000	0.1678	02	0.5000	0.1574	03	0.7000	0.1599	04	1.0000	0.1567
05	2.0000	0.1596	06	5.0000	0.1641	07	10.0000	0.1704	08	20.0000	0.1667
09	30.0000	0.1608	10	50.0000	0.1619						

Analyte

Perchlorate RSE = 2.81

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.1000	0.103	3.2	02	0.5000	0.484	-3.1	03	0.7000	0.689	-1.6
04	1.0000	0.964	-3.6	05	2.0000	1.96	-1.8	06	5.0000	5.05	1.0
07	10.0000	10.5	4.8	08	20.0000	20.5	2.6	09	30.0000	29.7	-1.1
10	50.0000	49.8	-0.4								

Initial Calibration Verification Summary Report

Calibration ID:	EC2300011	**Instrument ID:**	E-LCMS-01
Datafile ID:	20230629-011	**Column Name:**	1

Analyte	Lab Code	Type	Curve Fit	True Value	Calc Conc	Units	Result	Criteria
Perchlorate	EC2300011-11	T	Average RF	10	9.913	ng/mL	-0.9	<= 15

Insight Report

Printed at 6/29/2023 2:17:05 PM

Method File: I:\LCMS01\DATA\20230628\06282023.lcm
Project File: I:\LCMS01\DATA\20230628\06282023.damlp

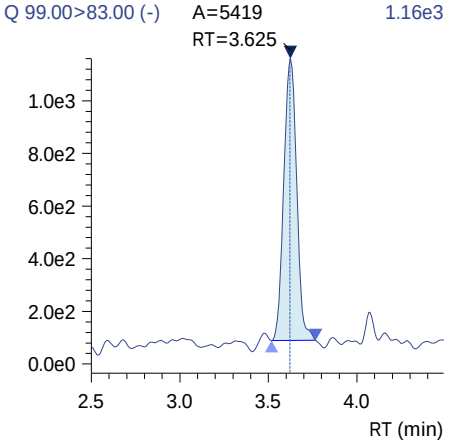
PERCHLORATE1

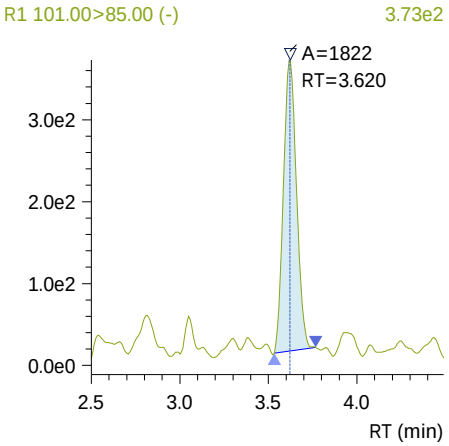
Sample ID: PERCHLORATE1
Date Acquired: 6/29/2023 12:59:40 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230629\20230629-001.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 2

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.625	5419	323018	0.1032	ng/mL	101.00 >85.00	33.63	22.41-41.62
Sodium Perchlorate-18O4 _IS	Auto	3.617	323018	323018	1.0000	ng/mL	----	----	

Perchlorate

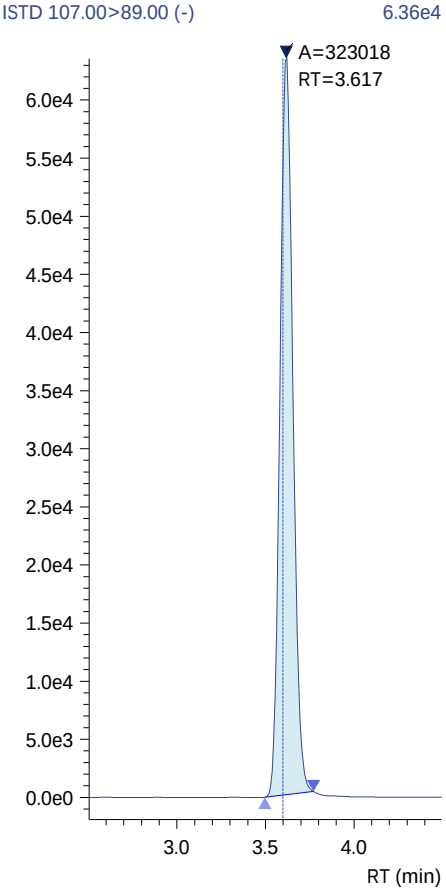
Conc 0.1032
R#1 33.63 (32.02)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/29/2023 2:17:05 PM

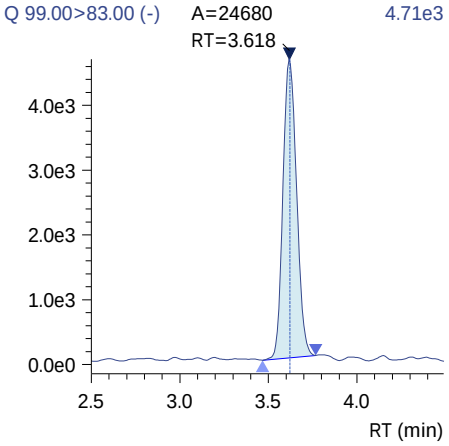
PERCHLORATE2

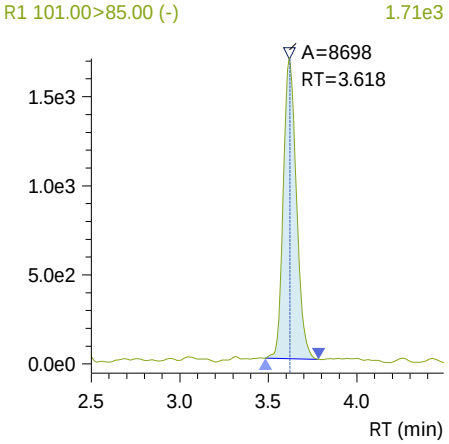
Sample ID: PERCHLORATE2
Date Acquired: 6/29/2023 1:05:11 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230629\20230629-002.lcd
Vial: 2 | Inj. Volume: 10.0000uL | Tray: 2

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.618	24680	313519	0.4844	ng/mL	101.00 >85.00	35.24	22.41-41.62
Sodium Perchlorate-18O4 _IS	Auto	3.618	313519	313519	1.0000	ng/mL	----	----	

Perchlorate

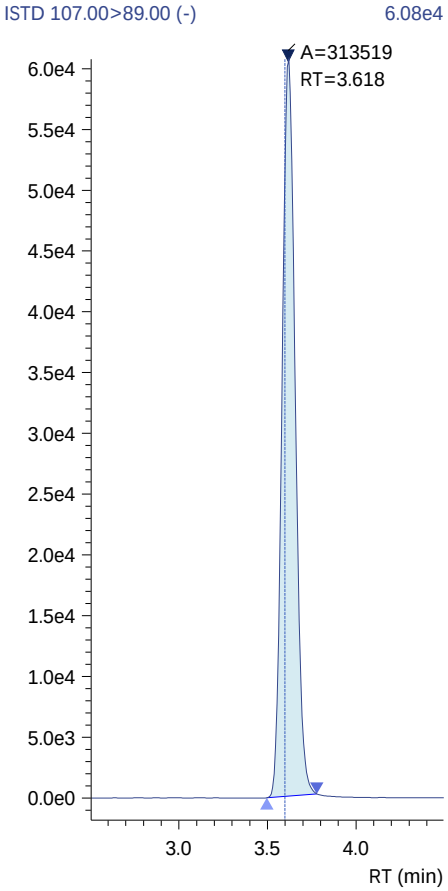
Conc 0.4844
R#1 35.24 (32.02)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/29/2023 2:17:05 PM

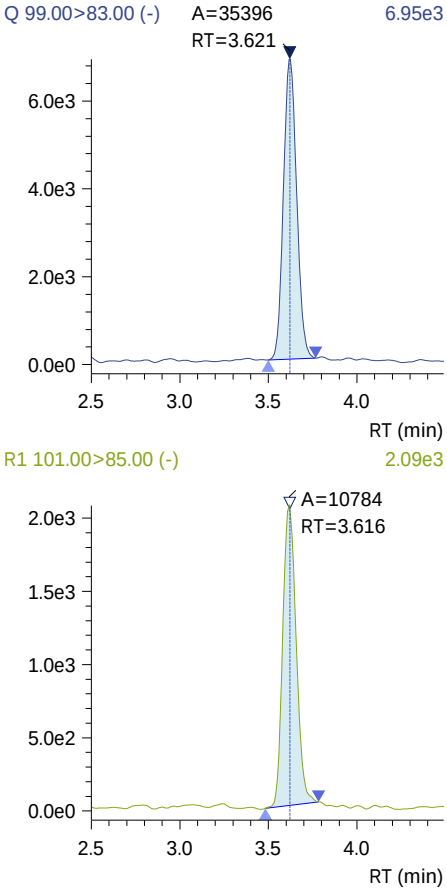
PERCHLORATE3

Sample ID: PERCHLORATE3
Date Acquired: 6/29/2023 1:10:46 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230629\20230629-003.lcd
Vial: 3 | Inj. Volume: 10.0000uL | Tray: 2

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.621	35396	316311	0.6886	ng/mL	101.00 >85.00	30.47	22.41-41.62
Sodium Perchlorate-18O4 _IS	Auto	3.618	316311	316311	1.0000	ng/mL	----	----	

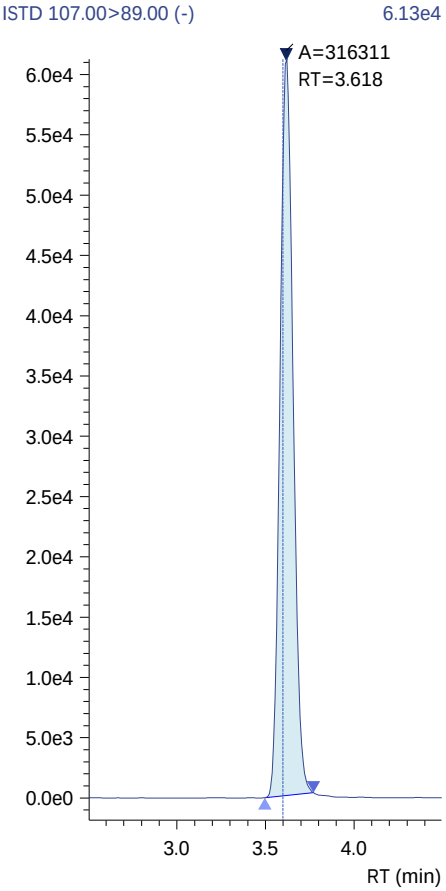
Perchlorate

Conc 0.6886
R#1 30.47 (32.02)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/29/2023 2:17:05 PM

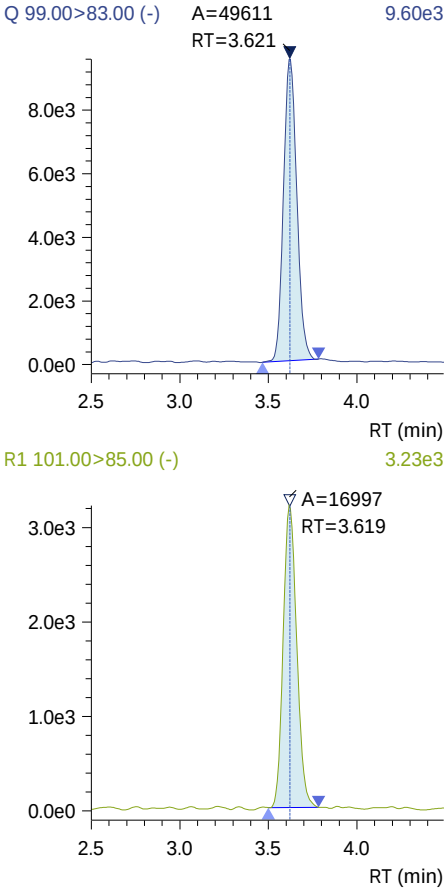
PERCHLORATE4

Sample ID: PERCHLORATE4
Date Acquired: 6/29/2023 1:16:19 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230629\20230629-004.lcd
Vial: 4 | Inj. Volume: 10.0000uL | Tray: 2

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.621	49611	316580	0.9643	ng/mL	101.00 >85.00	34.26	22.41-41.62
Sodium Perchlorate-18O4 _IS	Auto	3.618	316580	316580	1.0000	ng/mL	----	----	

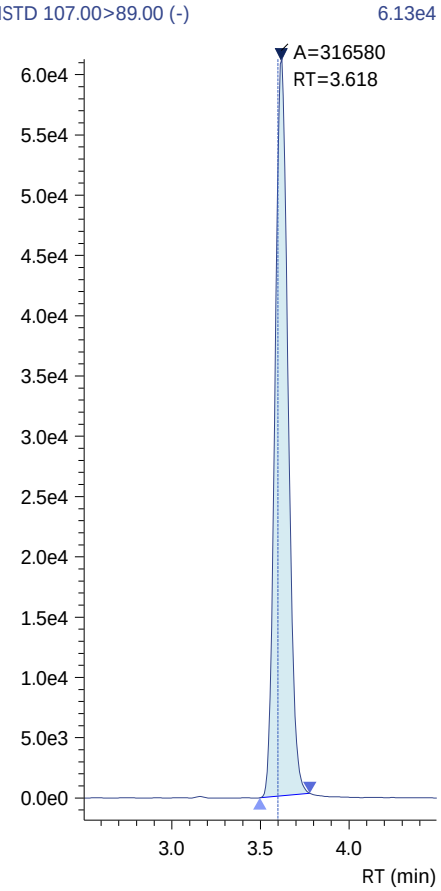
Perchlorate

Conc 0.9643
R#1 34.26 (32.02)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/29/2023 2:17:05 PM

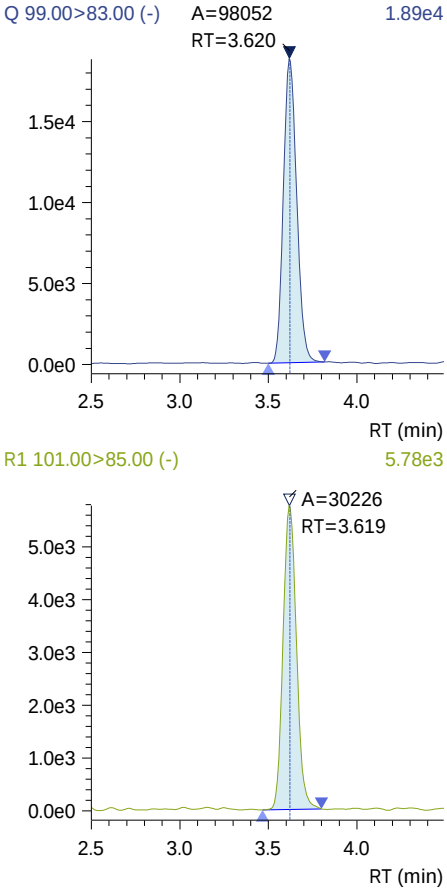
PERCHLORATE5

Sample ID: PERCHLORATE5
Date Acquired: 6/29/2023 1:21:50 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230629\20230629-005.lcd
Vial: 5 | Inj. Volume: 10.0000uL | Tray: 2

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.620	98052	307162	1.9642	ng/mL	101.00 >85.00	30.83	22.41-41.62
Sodium Perchlorate-18O4 _IS	Auto	3.617	307162	307162	1.0000	ng/mL	----	----	

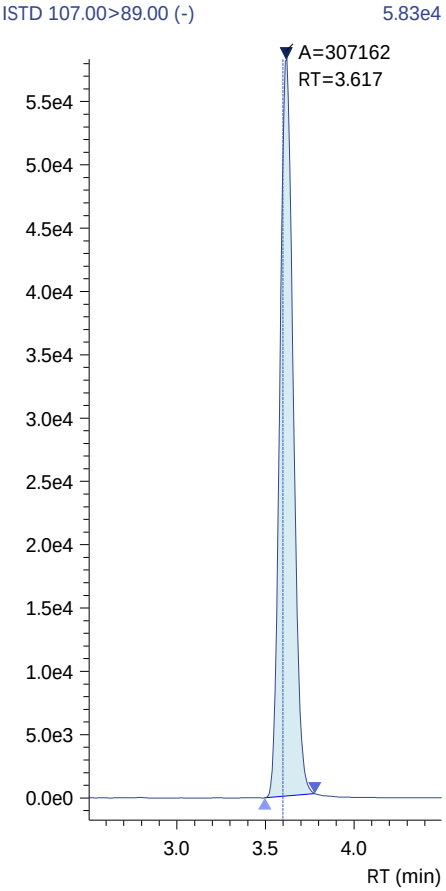
Perchlorate

Conc 1.9642
R#1 30.83 (32.02)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/29/2023 2:17:05 PM

PERCHLORATE6

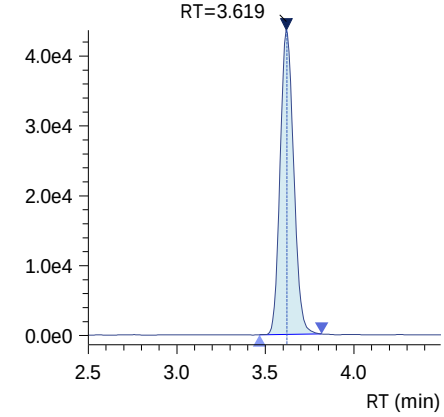
Sample ID: PERCHLORATE6
Date Acquired: 6/29/2023 1:27:22 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230629\20230629-006.lcd
Vial: 6 | Inj. Volume: 10.0000uL | Tray: 2

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.619	232011	282827	5.0477	ng/mL	101.00 >85.00	31.17	22.41-41.62
Sodium Perchlorate-18O4 _IS	Auto	3.617	282827	282827	1.0000	ng/mL	----	----	

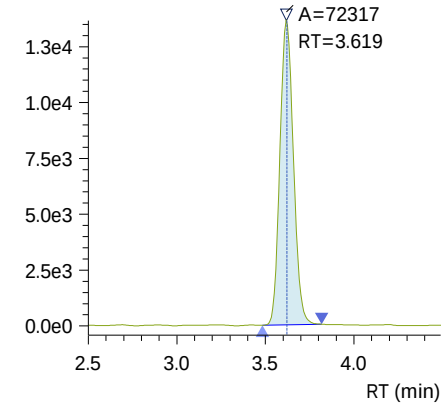
Perchlorate

Conc 5.0477
R#1 31.17 (32.02)

Q 99.00>83.00 (-) A=232011 RT=3.619 4.37e4



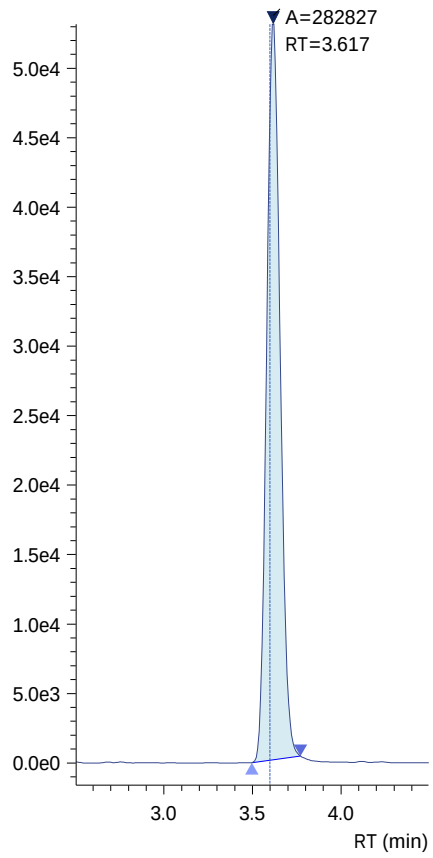
R1 101.00>85.00 (-) 1.37e4



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 5.32e4



Insight Report

Printed at 6/29/2023 2:17:05 PM

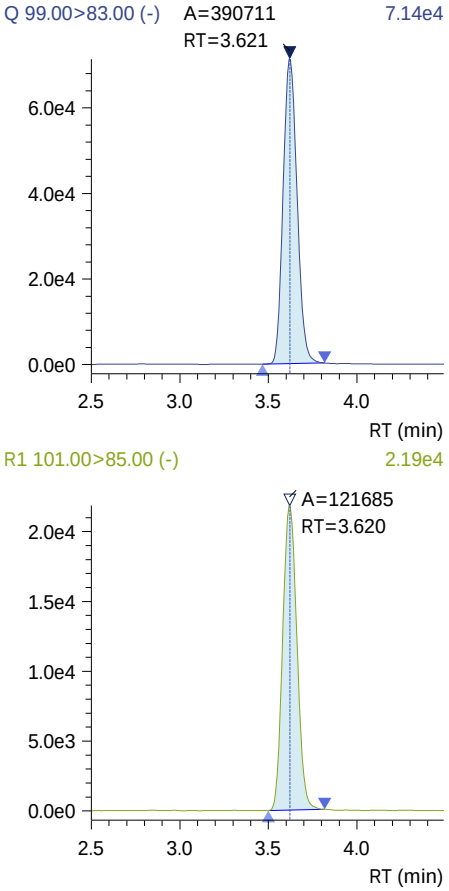
PERCHLORATE7

Sample ID: PERCHLORATE7
Date Acquired: 6/29/2023 1:32:51 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230629\20230629-007.lcd
Vial: 3 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.621	390711	229327	10.48 35	ng/mL	101.00 >85.00	31.14	22.41-41.62
Sodium Perchlorate-18O4 _IS	Auto	3.616	229327	229327	1.0000	ng/mL	----	----	

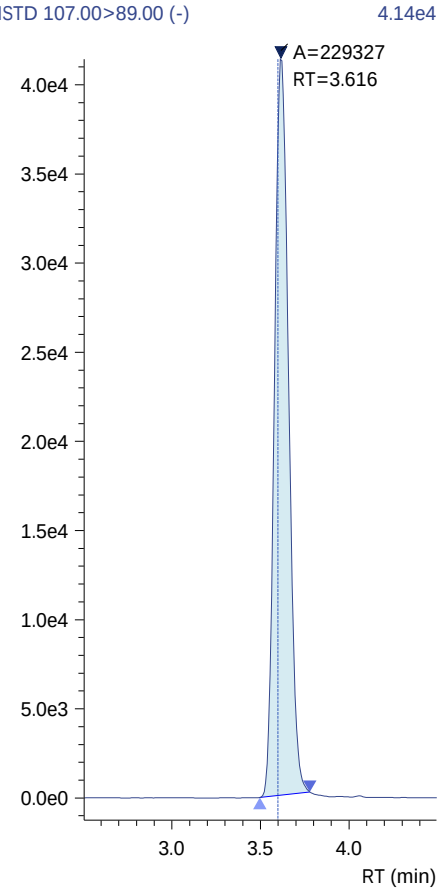
Perchlorate

Conc 10.4835
R#1 31.14 (32.02)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/29/2023 2:17:05 PM

PERCHLORATE8

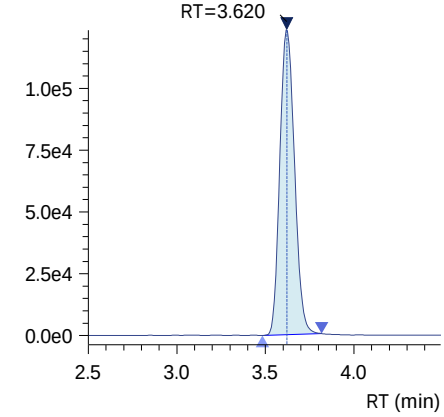
Sample ID: PERCHLORATE8
Date Acquired: 6/29/2023 1:38:22 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230629\20230629-008.lcd
Vial: 8 | Inj. Volume: 10.0000uL | Tray: 2

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.620	710430	213093	20.5144	ng/mL	101.00 >85.00	31.25	22.41-41.62
Sodium Perchlorate-18O4_IS	Auto	3.615	213093	213093	1.0000	ng/mL	----	----	

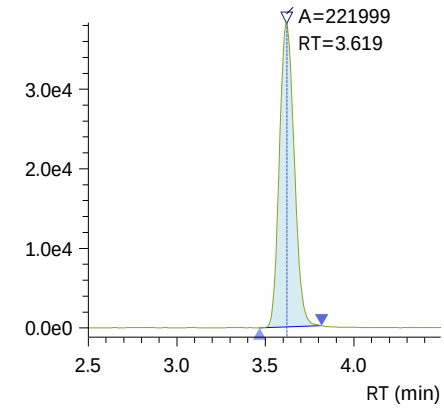
Perchlorate

Conc 20.5144
R#1 31.25 (32.02)

Q 99.00>83.00 (-) A=710430 RT=3.620 1.24e5



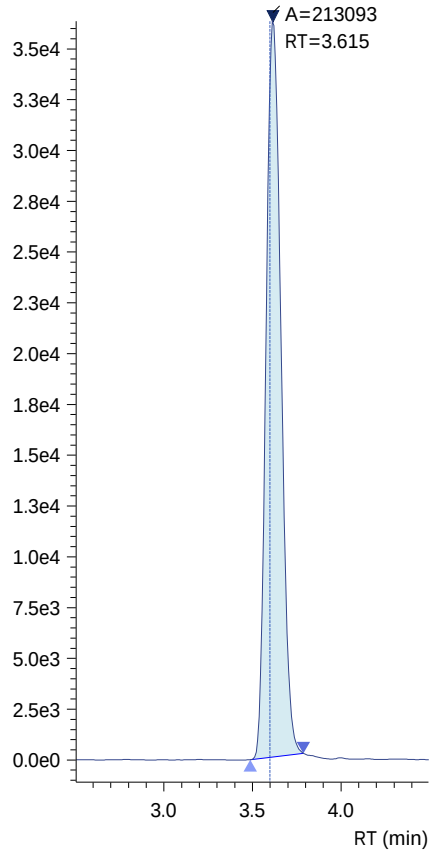
R1 101.00>85.00 (-) 3.84e4



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 3.64e4



Insight Report

Printed at 6/29/2023 2:17:05 PM

PERCHLORATE9

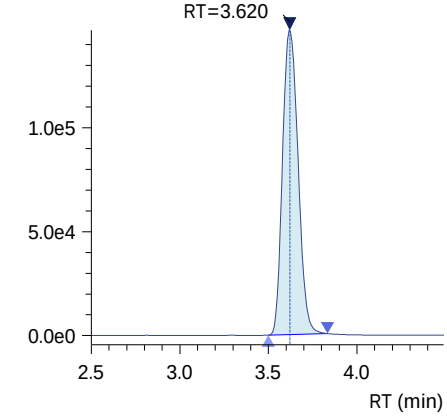
Sample ID: PERCHLORATE9
Date Acquired: 6/29/2023 1:43:53 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230629\20230629-009.lcd
Vial: 9 | Inj. Volume: 10.0000uL | Tray: 2

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.620	896468	185851	29.6808	ng/mL	101.00 >85.00	31.06	22.41-41.62
Sodium Perchlorate-18O4_IS	Auto	3.614	185851	185851	1.0000	ng/mL	----	----	

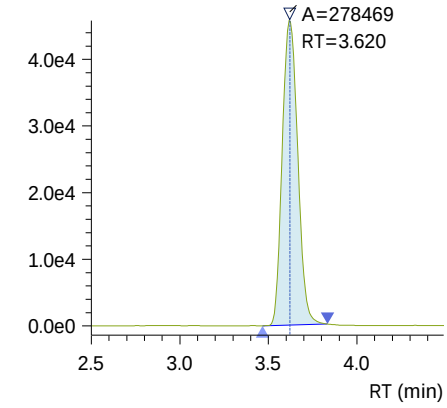
Perchlorate

Conc 29.6808
R#1 31.06 (32.02)

Q 99.00>83.00 (-) A=896468 1.47e5



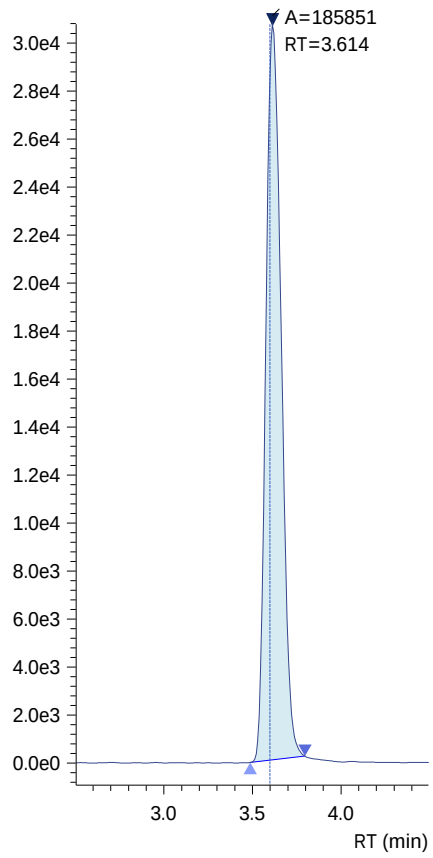
R1 101.00>85.00 (-) 4.58e4



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 3.08e4



Insight Report

Printed at 6/29/2023 2:17:05 PM

PERCHLORATE10

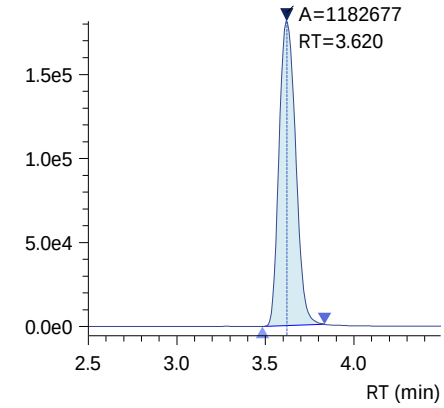
Sample ID: PERCHLORATE10
Date Acquired: 6/29/2023 1:49:27 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230629\20230629-010.lcd
Vial: 10 | Inj. Volume: 10.0000uL | Tray: 2

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.620	1182677	146135	49.79 86	ng/mL	101.00 >85.00	30.89	22.41-41.62
Sodium Perchlorate-18O4 _IS	Auto	3.614	146135	146135	1.0000	ng/mL	----	----	

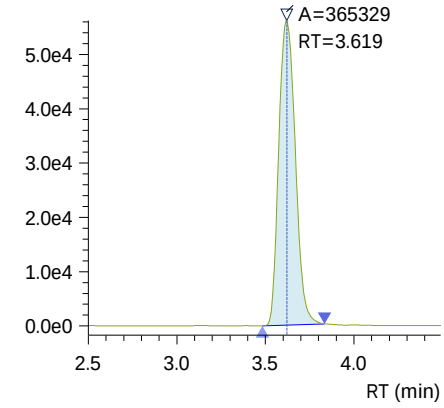
Perchlorate

Conc 49.7986
R#1 30.89 (32.02)

Q 99.00>83.00 (-) 1.82e5



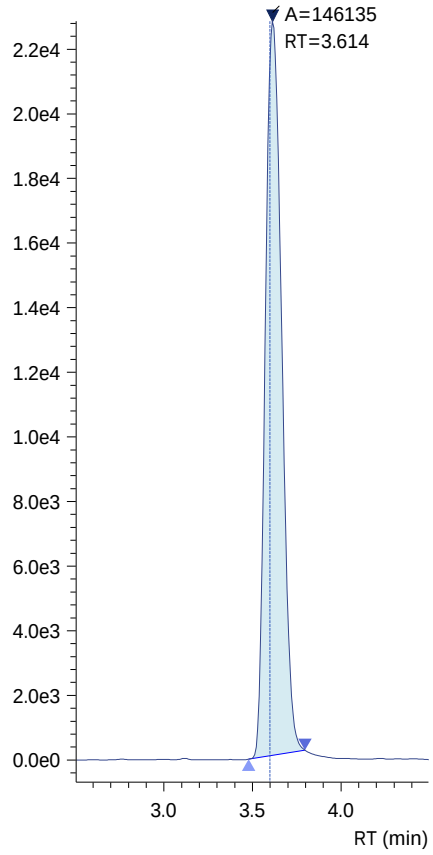
R1 101.00>85.00 (-) 5.62e4



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 2.29e4



Insight Report

Printed at 6/29/2023 2:17:05 PM

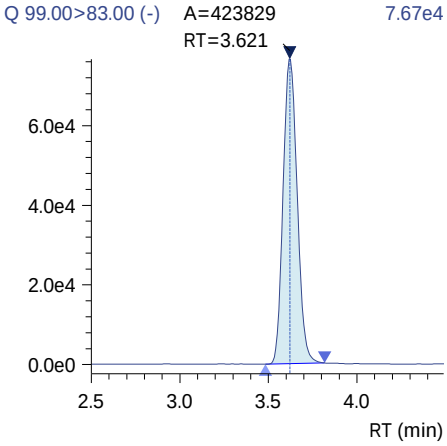
PERCHLORATEICV

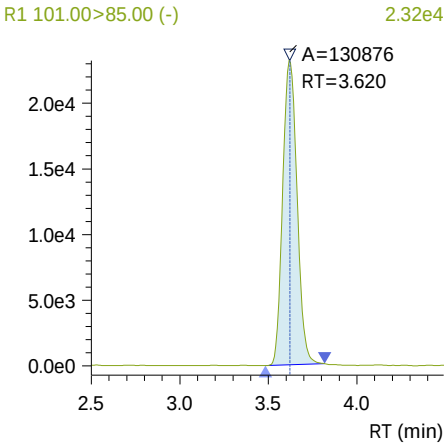
Sample ID: PERCHLORATEICV
Date Acquired: 6/29/2023 1:55:00 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230629\20230629-011.lcd
Vial: 11 | Inj. Volume: 10.0000uL | Tray: 2

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.621	423829	263091	9.9127	ng/mL	101.00 >85.00	30.88	22.41-41.62
Sodium Perchlorate-18O4 _IS	Auto	3.617	263091	263091	1.0000	ng/mL	----	----	

Perchlorate

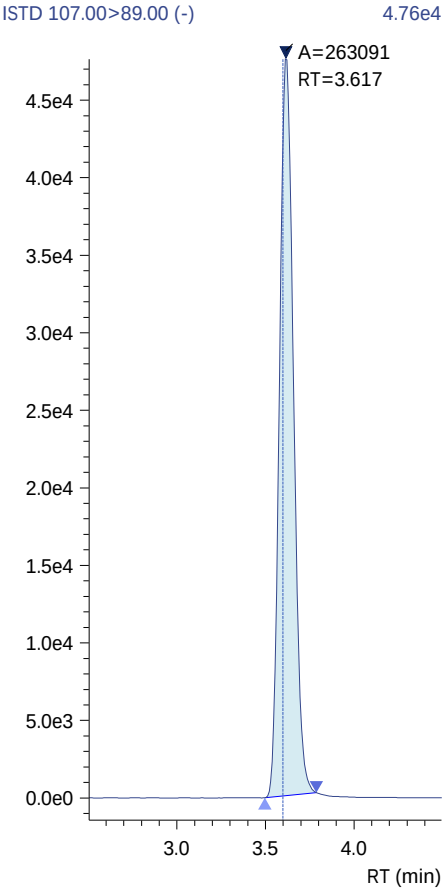
Conc 9.9127
R#1 30.88 (32.02)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Chromatograms and Selected Ion Monitoring

ALS Environmental - Houston HRMS
10450 Stancliff Rd., Suite 320, Houston TX 77099
Phone (713)266-1599 Fax (713)266-0130
www.alsglobal.com

20230721-811523

Injection Log

LCMS01 -Shimadzu 8050

1st Review: XM
2nd Review: GC

ICAL Date: 6/29/2023
Cal. Std. xp: 07/31/2023
ICAL ID: EC2300011

Mobile Phases : A:20mM ammonium acetate in water 230388 **B:**Acetonitrile 229152

	Sample Name		File Name	Acquisition Method	Dilution	Comments	Date/Time
1	IB		20230721-013	Perchlorate6850c.lcm	1x		7/21/2023 10:27
2	LODV		20230721-014	Perchlorate6850c.lcm	1x	230386	7/21/2023 10:32
3	ICS		20230721-015	Perchlorate6850c.lcm	1x	32103024	7/21/2023 10:39
4	CCV		20230721-016	Perchlorate6850c.lcm	1x	227251	7/21/2023 10:45
5	EQ2300349-01		20230721-017	Perchlorate6850c.lcm	1x		7/21/2023 10:50
6	EQ2300349-02		20230721-018	Perchlorate6850c.lcm	1x		7/21/2023 10:56
7	EQ2300349-03		20230721-019	Perchlorate6850c.lcm	1x		7/21/2023 11:01
8	E2300635-001		20230721-020	Perchlorate6850c.lcm	1x		7/21/2023 11:08
9	E2300635-002		20230721-021	Perchlorate6850c.lcm	1x		7/21/2023 11:14
10	E2300635-003		20230721-022	Perchlorate6850c.lcm	1x		7/21/2023 11:20
11	E2300635-004		20230721-023	Perchlorate6850c.lcm	1x		7/21/2023 11:25
12	E2300635-005		20230721-024	Perchlorate6850c.lcm	5x		7/21/2023 11:31
13	E2300635-006		20230721-025	Perchlorate6850c.lcm	1x		7/21/2023 11:36
14	E2300635-007		20230721-026	Perchlorate6850c.lcm	1x		7/21/2023 11:42
15	CCV		20230721-027	Perchlorate6850c.lcm	1x	227251	7/21/2023 11:47
16	E2300635-008		20230721-028	Perchlorate6850c.lcm	1x		7/21/2023 11:53
17	E2300638-001		20230721-029	Perchlorate6850c.lcm	1x		7/21/2023 11:58
18	E2300638-002		20230721-030	Perchlorate6850c.lcm	1x		7/21/2023 12:04
19	E2300638-003		20230721-031	Perchlorate6850c.lcm	1x		7/21/2023 12:15
20	E2300638-004		20230721-032	Perchlorate6850c.lcm	1x		7/21/2023 12:21
21	EQ2300349-04		20230721-033	Perchlorate6850c.lcm	1x		7/21/2023 12:26
22	EQ2300349-05		20230721-034	Perchlorate6850c.lcm	1x		7/21/2023 12:32
23	E2300638-005		20230721-035	Perchlorate6850c.lcm	1x		7/21/2023 12:38
24	E2300638-006		20230721-036	Perchlorate6850c.lcm	1x		7/21/2023 12:43
25	E2300638-007		20230721-037	Perchlorate6850c.lcm	1x		7/21/2023 12:49
26	CCV		20230721-038	Perchlorate6850c.lcm	1x	227251	7/21/2023 12:54
27	E2300638-008		20230721-039	Perchlorate6850c.lcm	1x		7/21/2023 13:00
28	E2300638-009		20230721-040	Perchlorate6850c.lcm	10x		7/21/2023 13:06
29	EQ2300351-01		20230721-041	Perchlorate6850c.lcm	1x		7/21/2023 13:14
30	EQ2300351-02		20230721-042	Perchlorate6850c.lcm	1x		7/21/2023 13:20
31	EQ2300351-03		20230721-043	Perchlorate6850c.lcm	1x		7/21/2023 13:25
32	E2300640-001		20230721-044	Perchlorate6850c.lcm	1x		7/21/2023 13:31
33	E2300640-002		20230721-045	Perchlorate6850c.lcm	1x		7/21/2023 13:36
34	E2300640-003		20230721-046	Perchlorate6850c.lcm	20x		7/21/2023 13:42
35	EQ2300351-04		20230721-047	Perchlorate6850c.lcm	1x		7/21/2023 13:47
36	EQ2300351-05		20230721-048	Perchlorate6850c.lcm	1x		7/21/2023 13:53
37	CCV		20230721-049	Perchlorate6850c.lcm	1x	227251	7/21/2023 13:58

20230721-811523

Injection Log

LCMS01 -Shimadzu 8050

1st Review: XM
2nd Review: GC

ICAL Date: 6/29/2023
Cal. Std. xp: 07/31/2023
ICAL ID: EC2300011

Mobile Phases : A:20mM ammonium acetate in water 230388 **B:**Acetonitrile 229152

	Sample Name		File Name	Acquisition Method	Dilution	Comments	Date/Time
38	IB		20230721-050	Perchlorate6850c.lcm	1x		7/21/2023 14:04
39	E2300640-004		20230721-051	Perchlorate6850c.lcm	1x		7/21/2023 14:09
40	E2300640-005		20230721-052	Perchlorate6850c.lcm	1x		7/21/2023 14:15
41	E2300640-006		20230721-053	Perchlorate6850c.lcm	1x		7/21/2023 14:20
42	E2300640-007		20230721-054	Perchlorate6850c.lcm	1x		7/21/2023 14:26
43	E2300640-008		20230721-055	Perchlorate6850c.lcm	1x		7/21/2023 14:31
44	E2300641-001		20230721-056	Perchlorate6850c.lcm	1x		7/21/2023 14:37
45	E2300641-002		20230721-057	Perchlorate6850c.lcm	1x	DNU-D	7/21/2023 14:42
46	E2300641-003		20230721-058	Perchlorate6850c.lcm	1x		7/21/2023 14:48
47	E2300641-004		20230721-059	Perchlorate6850c.lcm	1x		7/21/2023 15:39
48	CCV		20230721-060	Perchlorate6850c.lcm	1x	227251	7/21/2023 15:44
49	E2300641-002		20230721-061	Perchlorate6850c.lcm	2x		7/21/2023 15:50
50	E2300641-005		20230721-062	Perchlorate6850c.lcm	1x		7/21/2023 15:55
51	E2300641-006		20230721-063	Perchlorate6850c.lcm	20x		7/21/2023 16:01
52	E2300641-007		20230721-064	Perchlorate6850c.lcm	1x		7/21/2023 16:06
53	E2300641-008		20230721-065	Perchlorate6850c.lcm	1x		7/21/2023 16:12
54	E2300641-009		20230721-066	Perchlorate6850c.lcm	1x		7/21/2023 16:17
55	E2300641-010		20230721-067	Perchlorate6850c.lcm	1x		7/21/2023 16:23
56	CCV		20230721-071	Perchlorate6850c.lcm	1x	227251	7/21/2023 16:45

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS23070546

Service Request: E2300640
Date Analyzed: 7/21/23 10:45

Internal Standard Area and RT Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

File ID: I:\LCMS01\DATA\20230721\20230721-016
Instrument ID: E-LCMS-01
Analytical Method: 6850

Lab Code: EQ2300353-01
Analysis Lot: 811523
Signal ID: 1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	263,382	3.62
	Upper Limit ==>	395,073	5.62
	Lower Limit ==>	131,691	1.62
Associated Analyses			
Continuing Calibration Verification	EQ2300353-01	247,548	3.59

Results flagged with an asterisk (*) indicate values outside control criteria.

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client:	ALS Environmental - US	**Service Request:**	E2300640
Project:	HS23070546	**Date Analyzed:**	7/21/23 11:47

Internal Standard Area and RT Summary

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

File ID:	I:\LCMS01\DATA\20230721\20230721-027	**Lab Code:**	EQ2300353-02
Instrument ID:	E-LCMS-01	**Analysis Lot:**	811523
Analytical Method:	6850	**Signal ID:**	1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	263,382	3.62
	Upper Limit ==>	395,073	5.62
	Lower Limit ==>	131,691	1.62
Associated Analyses			
Continuing Calibration Verification	EQ2300353-02	259,013	3.59

Results flagged with an asterisk (*) indicate values outside control criteria.

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS23070546

Service Request: E2300640
Date Analyzed: 7/21/23 12:54

Internal Standard Area and RT Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

File ID: I:\LCMS01\DATA\20230721\20230721-038
Instrument ID: E-LCMS-01
Analytical Method: 6850

Lab Code: EQ2300353-03
Analysis Lot: 811523
Signal ID: 1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	263,382	3.62
	Upper Limit ==>	395,073	5.62
	Lower Limit ==>	131,691	1.62
Associated Analyses			
Continuing Calibration Verification	EQ2300353-03	270,621	3.59
Method Blank	EQ2300351-01	343,574	3.59
Lab Control Sample	EQ2300351-02	354,039	3.59
Duplicate Lab Control Sample	EQ2300351-03	330,441	3.59
16WW58-230711	E2300640-001	348,094	3.59
16WW57-230711	E2300640-002	349,825	3.59
16WW16-230711	E2300640-003	210,902	3.59
16WW16-230711MS	EQ2300351-04	31,413*	3.58
16WW16-230711DMS	EQ2300351-05	32,958*	3.57

Results flagged with an asterisk (*) indicate values outside control criteria.

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client:	ALS Environmental - US	**Service Request:**	E2300640
Project:	HS23070546	**Date Analyzed:**	7/21/23 13:58

Internal Standard Area and RT Summary

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

File ID:	I:\LCMS01\DATA\20230721\20230721-049	**Lab Code:**	EQ2300353-04
Instrument ID:	E-LCMS-01	**Analysis Lot:**	811523
Analytical Method:	6850	**Signal ID:**	1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	263,382	3.62
	Upper Limit ==>	395,073	5.62
	Lower Limit ==>	131,691	1.62
Associated Analyses			
Continuing Calibration Verification	EQ2300353-04	254,344	3.59
16WW34-230711	E2300640-004	338,959	3.58
16WW33-230711	E2300640-005	338,149	3.58
16WW32-230711	E2300640-006	336,706	3.59
16WW31-230711	E2300640-007	338,030	3.58
16WW56-230711	E2300640-008	339,511	3.59

Results flagged with an asterisk (*) indicate values outside control criteria.

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS23070546

Service Request: E2300640
Date Analyzed: 7/21/23 15:44

Internal Standard Area and RT Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

File ID: I:\LCMS01\DATA\20230721\20230721-060
Instrument ID: E-LCMS-01
Analytical Method: 6850

Lab Code: EQ2300353-05
Analysis Lot: 811523
Signal ID: 1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	263,382	3.62
	Upper Limit ==>	395,073	5.62
	Lower Limit ==>	131,691	1.62
Associated Analyses			
Continuing Calibration Verification	EQ2300353-05	253,306	3.59

Results flagged with an asterisk (*) indicate values outside control criteria.

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client:	ALS Environmental - US	**Service Request:**	E2300640
Project:	HS23070546	**Date Analyzed:**	7/21/23 16:45

Internal Standard Area and RT Summary

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

File ID:	I:\LCMS01\DATA\20230721\20230721-071	**Lab Code:**	EQ2300353-06
Instrument ID:	E-LCMS-01	**Analysis Lot:**	811523
Analytical Method:	6850	**Signal ID:**	1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	263,382	3.62
	Upper Limit ==>	395,073	5.62
	Lower Limit ==>	131,691	1.62
Associated Analyses			
Continuing Calibration Verification	EQ2300353-06	242,404	3.59

Results flagged with an asterisk (*) indicate values outside control criteria.

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS23070546

Service Request: E2300640
Date Analyzed: 7/21/23

Continuing Calibration Verification Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
File ID: I:\LCMS01\DATA\20230721\20230721-016

Calibration Date: 6/29/23
Calibration ID: EC2300011
Analysis Lot: 811523
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	10.4	0.1625	0.1692	4.1	NA	± 15 %	Average RF

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS23070546

Service Request: E2300640
Date Analyzed: 7/21/23

Continuing Calibration Verification Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
File ID: I:\LCMS01\DATA\20230721\20230721-027

Calibration Date: 6/29/23
Calibration ID: EC2300011
Analysis Lot: 811523
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	10.1	0.1625	0.1640	0.9	NA	± 15 %	Average RF

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS23070546

Service Request: E2300640
Date Analyzed: 7/21/23

Continuing Calibration Verification Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
File ID: I:\LCMS01\DATA\20230721\20230721-038

Calibration Date: 6/29/23
Calibration ID: EC2300011
Analysis Lot: 811523
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	10.3	0.1625	0.1674	3.0	NA	± 15 %	Average RF

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS23070546

Service Request: E2300640
Date Analyzed: 7/21/23

Continuing Calibration Verification Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
File ID: I:\LCMS01\DATA\20230721\20230721-049

Calibration Date: 6/29/23
Calibration ID: EC2300011
Analysis Lot: 811523
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	10.1	0.1625	0.1634	0.6	NA	± 15 %	Average RF

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS23070546

Service Request: E2300640
Date Analyzed: 7/21/23

Continuing Calibration Verification Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
File ID: I:\LCMS01\DATA\20230721\20230721-060

Calibration Date: 6/29/23
Calibration ID: EC2300011
Analysis Lot: 811523
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	10.1	0.1625	0.1649	1.5	NA	± 15 %	Average RF

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS23070546

Service Request: E2300640
Date Analyzed: 7/21/23

Continuing Calibration Verification Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
File ID: I:\LCMS01\DATA\20230721\20230721-071

Calibration Date: 6/29/23
Calibration ID: EC2300011
Analysis Lot: 811523
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	9.87	0.1625	0.1603	-1.3	NA	± 15 %	Average RF

Insight Report

Printed at 7/24/2023 9:31:17 AM

Method File: I:\LCMS01\DATA\20230721\20230721-2.lcm
Project File: I:\LCMS01\DATA\20230721\20230721-2.damlp

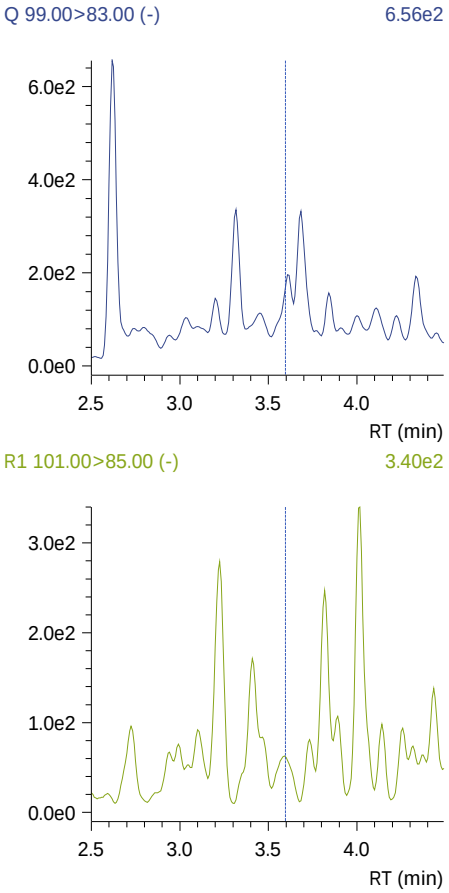
IB

Sample ID: IB
Date Acquired: 7/21/2023 10:27:05 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230721\20230721-013.lcd
Vial: 4 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	ND(W/B)	----	----	330784	----	ng/mL	101.00 >85.00	0.00	19.95-37.04
Sodium Perchlorate-18O4_IS	Auto	3.588	330784	330784	1.0000	ng/mL	----	----	

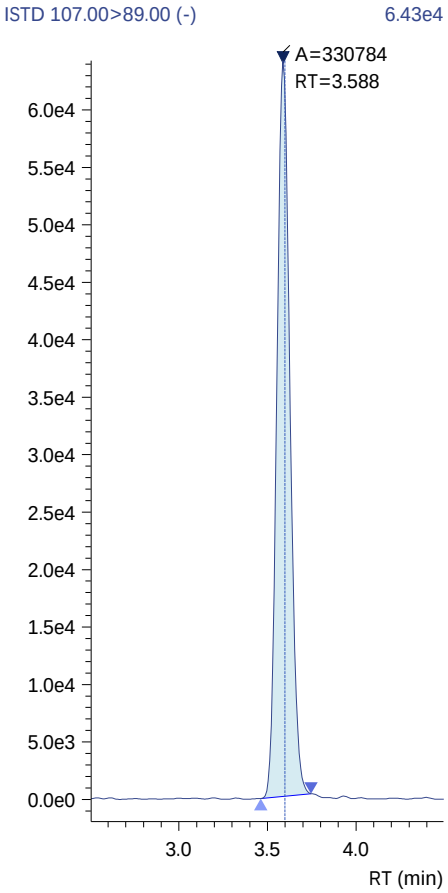
Perchlorate

Conc ----
R#1 0.00 (28.49)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 7/24/2023 9:31:17 AM

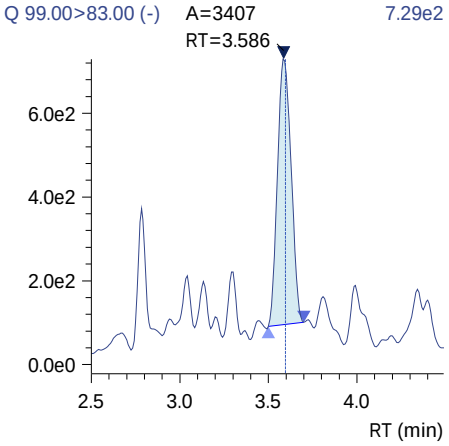
LODV

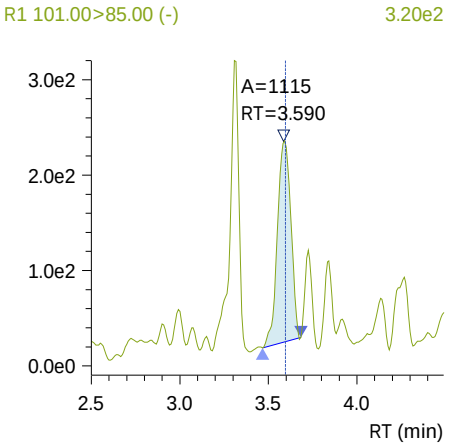
Sample ID: LODV
Date Acquired: 7/21/2023 10:32:38 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230721\20230721-014.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.586	3407	352407	0.0595	ng/mL	101.00 >85.00	32.72	19.95-37.04
Sodium Perchlorate-18O4 _IS	Auto	3.588	352407	352407	1.0000	ng/mL	----	----	

Perchlorate

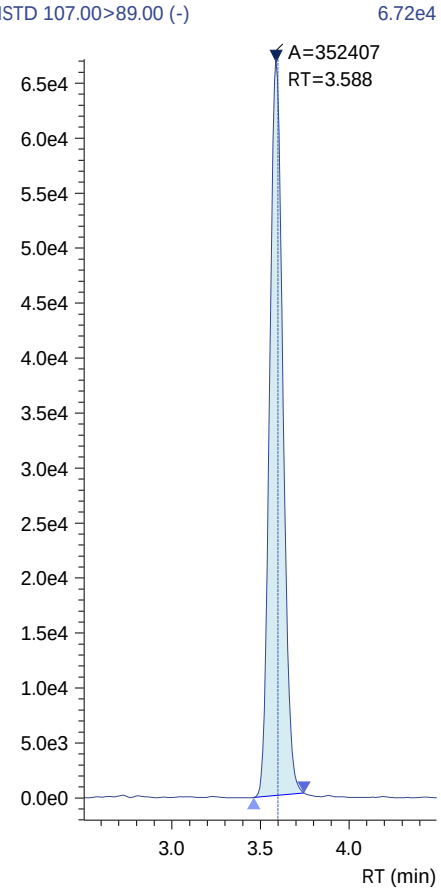
Conc 0.0595
R#1 32.72 (28.49)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 7/24/2023 9:31:17 AM

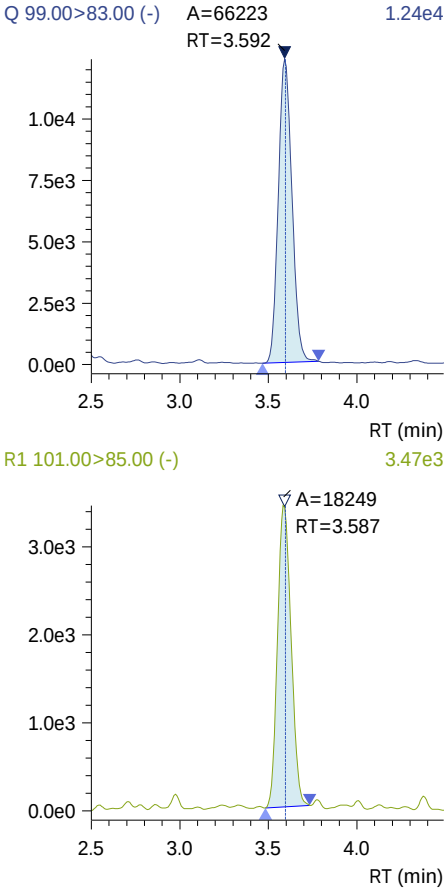
ICS

Sample ID: ICS
Date Acquired: 7/21/2023 10:39:51 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230721\20230721-015.lcd
Vial: 2 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.592	66223	367153	1.1099	ng/mL	101.00 >85.00	27.56	19.95-37.04
Sodium Perchlorate-18O4 _IS	Auto	3.588	367153	367153	1.0000	ng/mL	----	----	

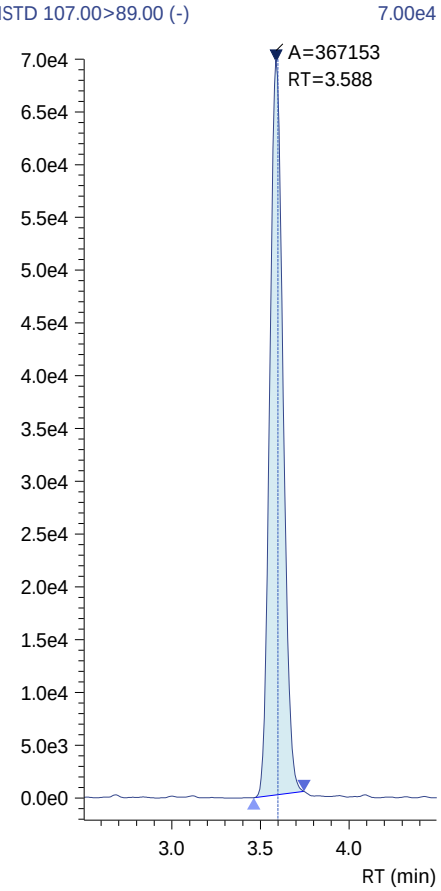
Perchlorate

Conc 1.1099
R#1 27.56 (28.49)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 7/24/2023 9:31:17 AM

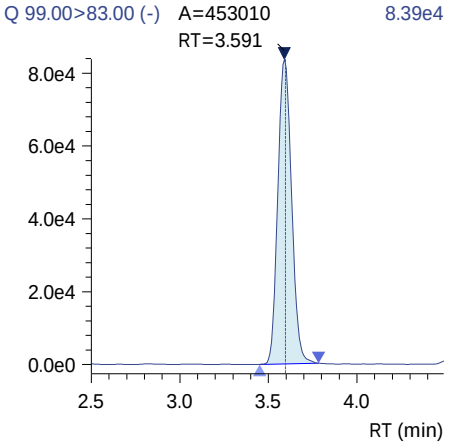
CCV

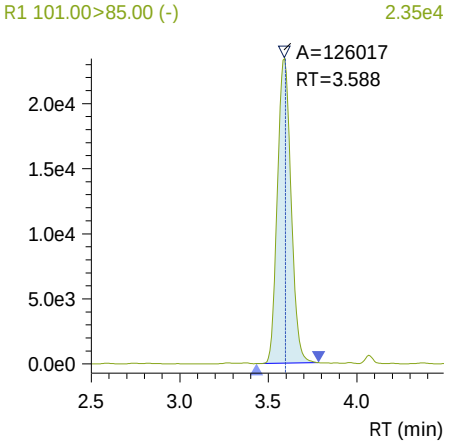
Sample ID: CCV
Date Acquired: 7/21/2023 12:54:33 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230721\20230721-038.lcd
Vial: 3 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.591	453010	270621	10.3003	ng/mL	101.00 >85.00	27.82	19.95-37.04
Sodium Perchlorate-18O4 _IS	Auto	3.586	270621	270621	1.0000	ng/mL	----	----	

Perchlorate

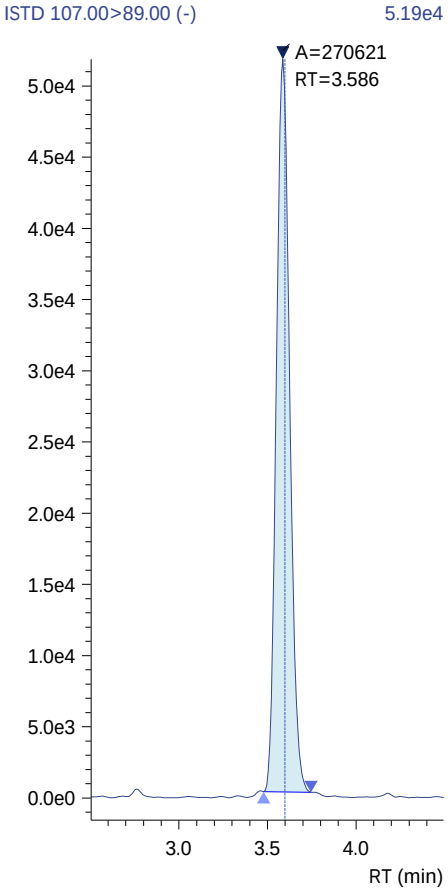
Conc 10.3003
R#1 27.82 (28.49)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 7/24/2023 9:31:17 AM

EQ2300351-01

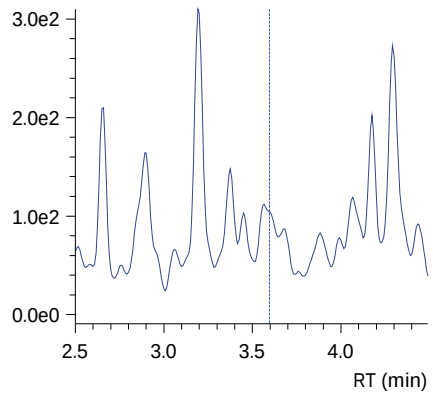
Sample ID: EQ2300351-01
Date Acquired: 7/21/2023 1:14:34 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230721\20230721-041.lcd
Vial: 4 | Inj. Volume: 10.0000uL | Tray: 4

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	ND(W/B)	----	----	343574	----	ng/mL	101.00 >85.00	0.00	19.95-37.04
Sodium Perchlorate-18O4_IS	Auto	3.587	343574	343574	1.0000	ng/mL	----	----	

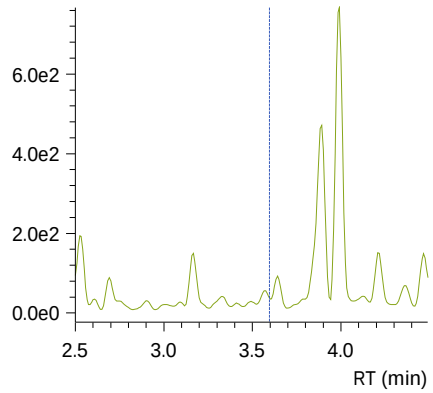
Perchlorate

Conc ----
R#1 0.00 (28.49)

Q 99.00>83.00 (-) 3.10e2



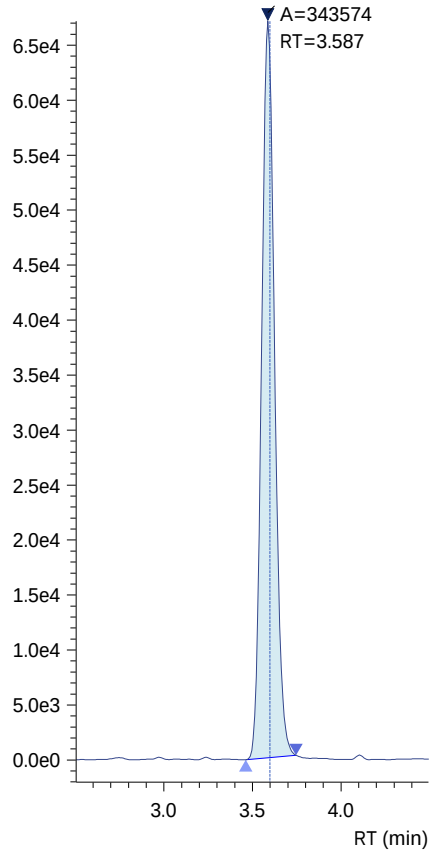
R1 101.00>85.00 (-) 7.67e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 6.72e4



Insight Report

Printed at 7/24/2023 9:31:17 AM

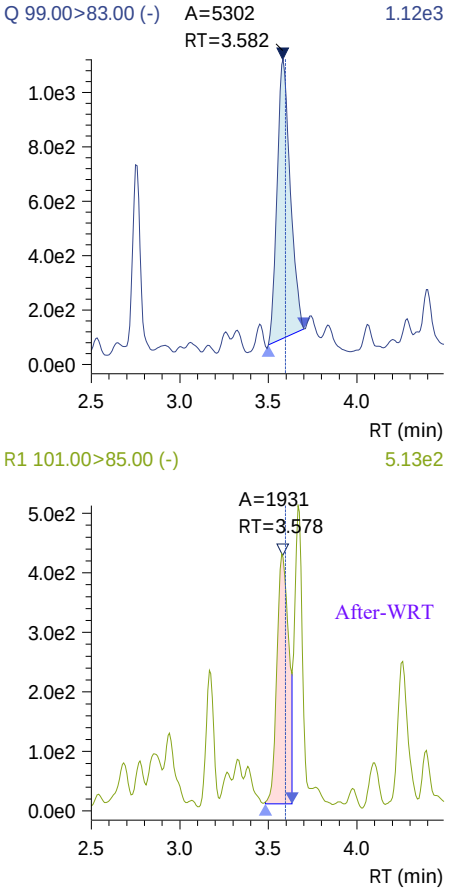
EQ2300351-02

Sample ID: EQ2300351-02
Date Acquired: 7/21/2023 1:20:03 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230721\20230721-042.lcd
Vial: 5 | Inj. Volume: 10.0000uL | Tray: 4

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	MI R1	3.582	5302	354039	0.0922	ng/mL	101.00 >85.00	36.41	19.95-37.04
Sodium Perchlorate-18O4_IS	Auto	3.585	354039	354039	1.0000	ng/mL	----	----	

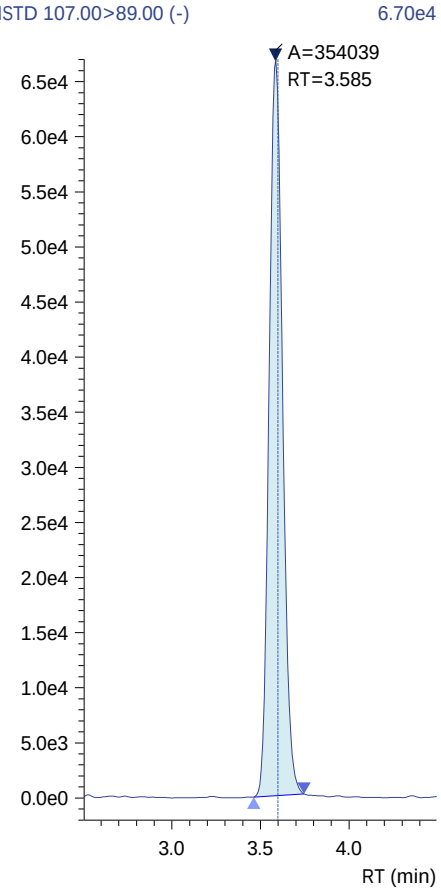
Perchlorate

Conc 0.0922
R#1 36.41 (28.49)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

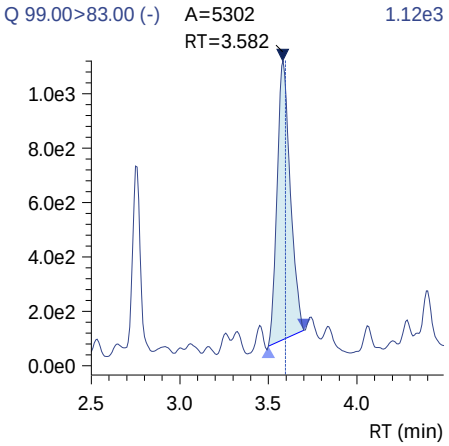
Method File: I:\LCMS01\DATA\20230721\20230721-2.lcm
Project File: I:\LCMS01\DATA\20230721\20230721-2.damlp

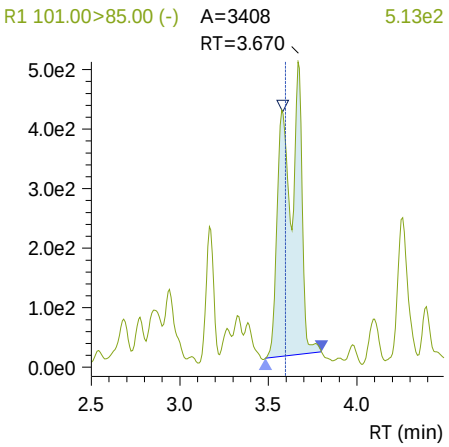
EQ2300351-02

Sample ID: EQ2300351-02
Date Acquired: 7/21/2023 1:20:03 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230721\20230721-042.lcd
Vial: 5 | Inj. Volume: 10.0000uL | Tray: 4

Perchlorate

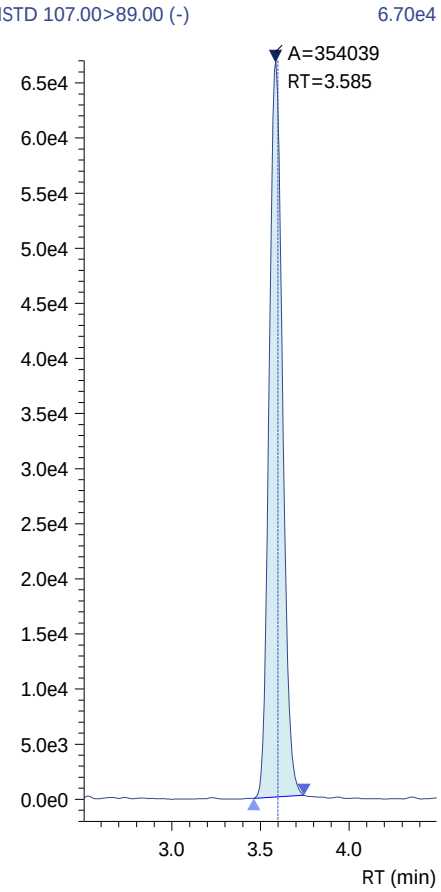
Conc 0.0922
R#1 64.27 (28.49)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 7/24/2023 9:31:17 AM

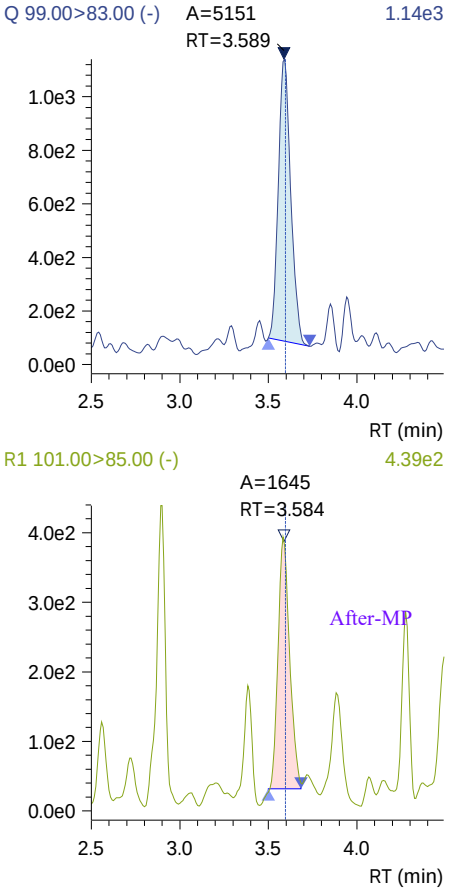
EQ2300351-03

Sample ID: EQ2300351-03
Date Acquired: 7/21/2023 1:25:35 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230721\20230721-043.lcd
Vial: 6 | Inj. Volume: 10.0000uL | Tray: 4

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	MI R1	3.589	5151	330441	0.0959	ng/mL	101.00 >85.00	31.94	19.95-37.04
Sodium Perchlorate-18O4 _IS	Auto	3.585	330441	330441	1.0000	ng/mL	----	----	

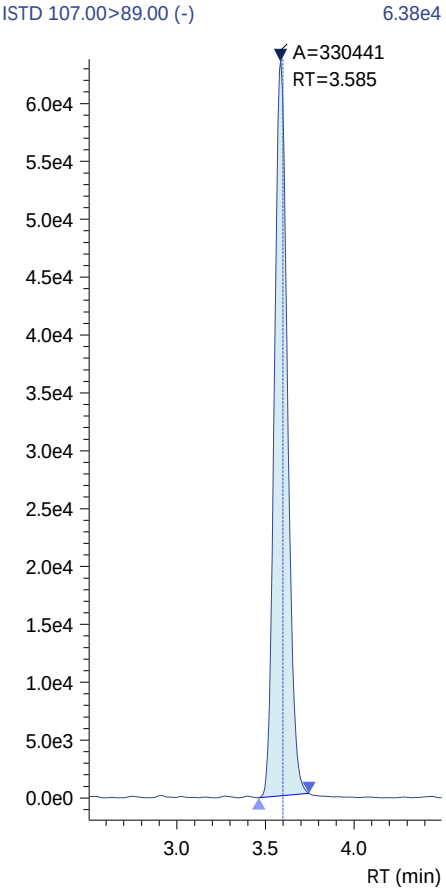
Perchlorate

Conc 0.0959
R#1 31.94 (28.49)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

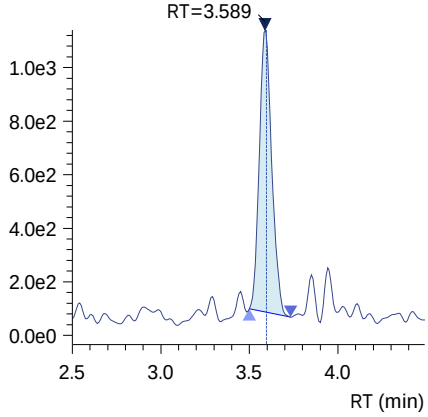
EQ2300351-03

Sample ID: EQ2300351-03
Date Acquired: 7/21/2023 1:25:35 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230721\20230721-043.lcd
Vial: 6 | Inj. Volume: 10.0000uL | Tray: 4

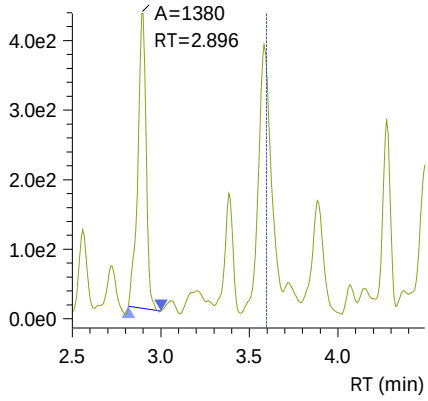
Perchlorate

Conc 0.0959
R#1 0.00 (28.49)

Q 99.00>83.00 (-) A=5151 1.14e3



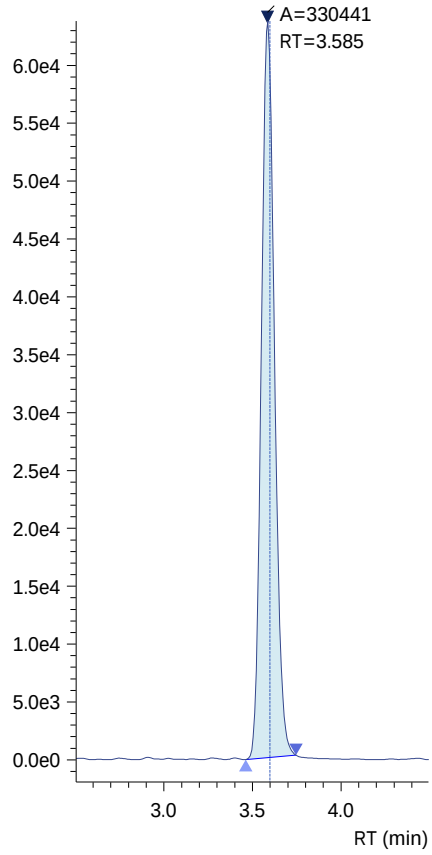
R1 101.00>85.00 (-) 4.39e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 6.38e4



Insight Report

Printed at 7/24/2023 9:31:17 AM

E2300640-001

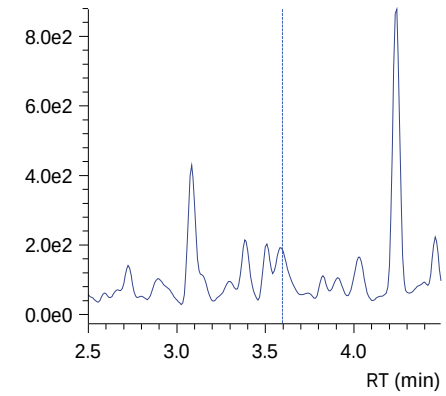
Sample ID: E2300640-001
Date Acquired: 7/21/2023 1:31:05 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230721\20230721-044.lcd
Vial: 28 | Inj. Volume: 10.0000uL | Tray: 3

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	ND(W/B)	----	----	348094	----	ng/mL	101.00 >85.00	0.00	19.95-37.04
Sodium Perchlorate-18O4_IS	Auto	3.585	348094	348094	1.0000	ng/mL	----	----	

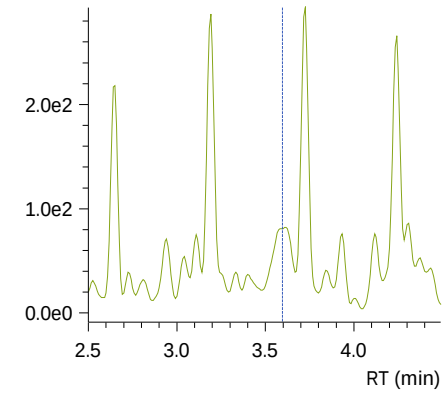
Perchlorate

Conc ----
R#1 0.00 (28.49)

Q 99.00>83.00 (-) 8.78e2



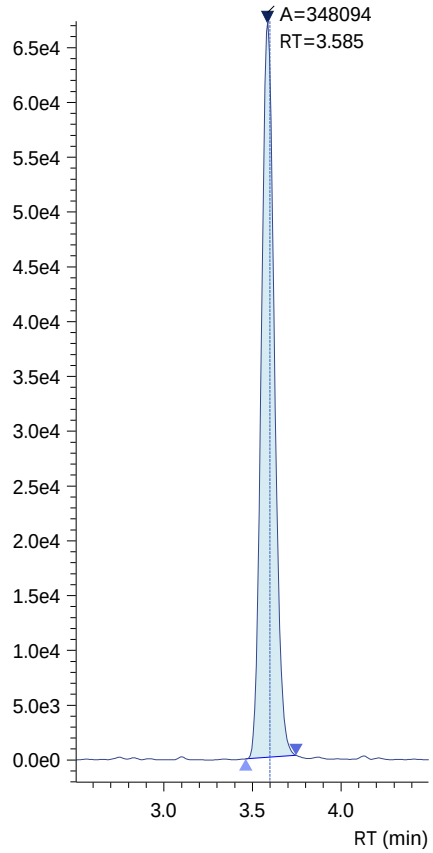
R1 101.00>85.00 (-) 2.93e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 6.74e4



Insight Report

Printed at 7/24/2023 9:31:17 AM

E2300640-002

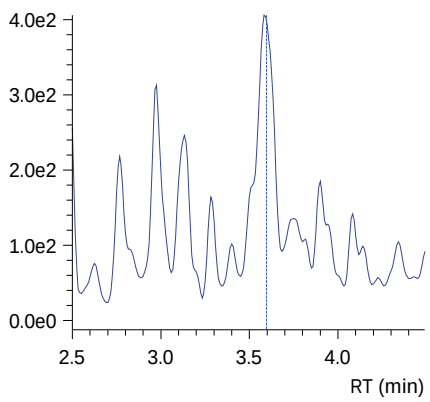
Sample ID: E2300640-002
Date Acquired: 7/21/2023 1:36:34 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230721\20230721-045.lcd
Vial: 29 | Inj. Volume: 10.0000uL | Tray: 3

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	ND(W/B)	----	----	349825	----	ng/mL	101.00 >85.00	0.00	19.95-37.04
Sodium Perchlorate-18O4_IS	Auto	3.585	349825	349825	1.0000	ng/mL	----	----	

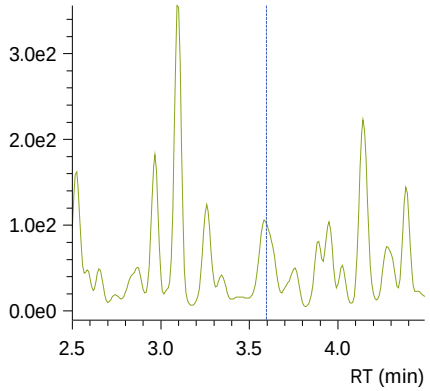
Perchlorate

Conc ----
R#1 0.00 (28.49)

Q 99.00>83.00 (-) 4.06e2



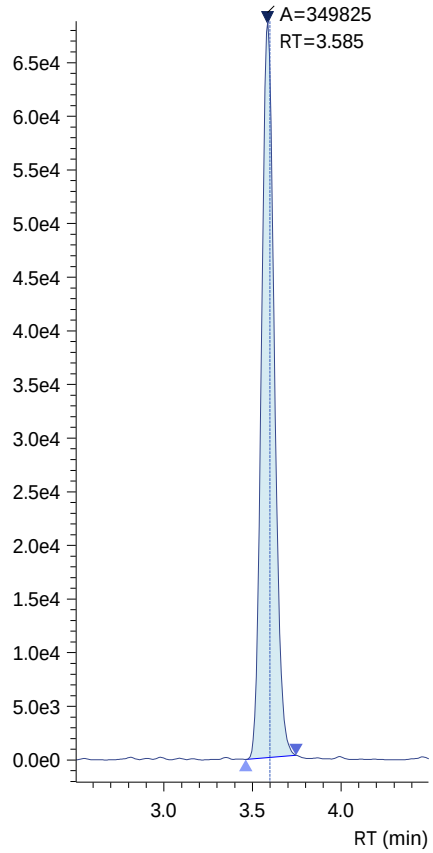
R1 101.00>85.00 (-) 3.56e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 6.89e4



Insight Report

Printed at 7/24/2023 9:31:17 AM

E2300640-003X20

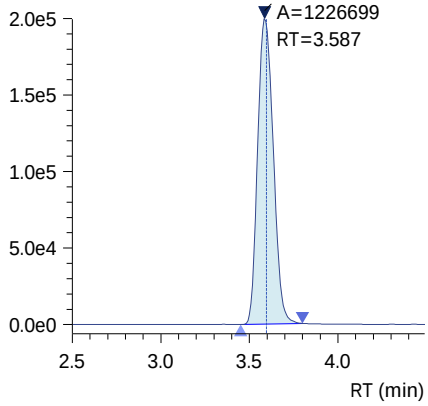
Sample ID: E2300640-003
Date Acquired: 7/21/2023 1:42:04 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230721\20230721-046.lcd
Vial: 30 | Inj. Volume: 10.0000uL | Tray: 3

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.587	1226699	210902	35.7902	ng/mL	101.00 >85.00	28.30	19.95-37.04
Sodium Perchlorate-18O4_IS	Auto	3.585	210902	210902	1.0000	ng/mL	----	----	

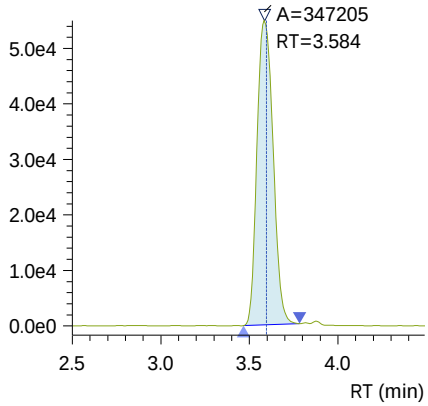
Perchlorate

Conc 35.7902
R#1 28.30 (28.49)

Q 99.00>83.00 (-) 2.00e5



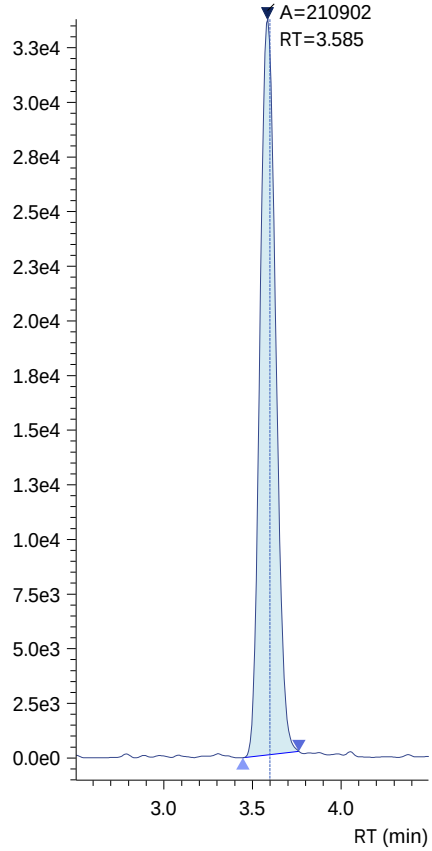
R1 101.00>85.00 (-) 5.50e4



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 3.38e4



Insight Report

Printed at 7/24/2023 9:31:17 AM

EQ2300351-04

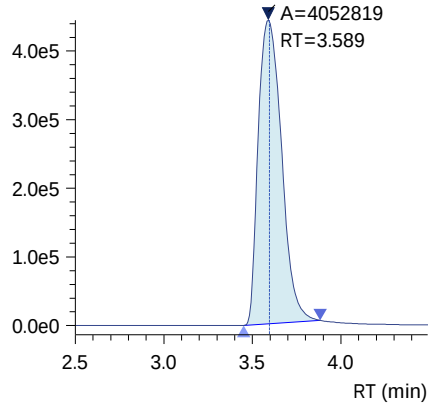
Sample ID: EQ2300351-04
Date Acquired: 7/21/2023 1:47:39 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230721\20230721-047.lcd
Vial: 9 | Inj. Volume: 10.0000uL | Tray: 4

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.589	4052819	31413	793.8834	ng/mL	101.00 >85.00	28.38	19.95-37.04
Sodium Perchlorate-18O4_IS	Auto	3.575	31413	31413	1.0000	ng/mL	----	----	

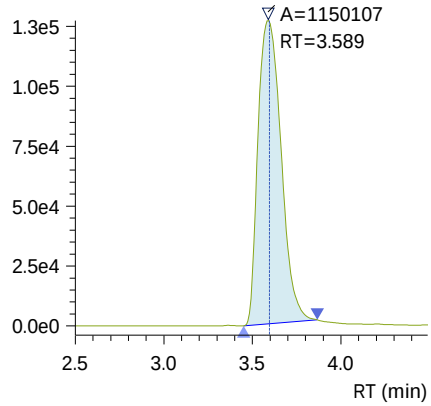
Perchlorate

Conc 793.8834
R#1 28.38 (28.49)

Q 99.00>83.00 (-) 4.45e5



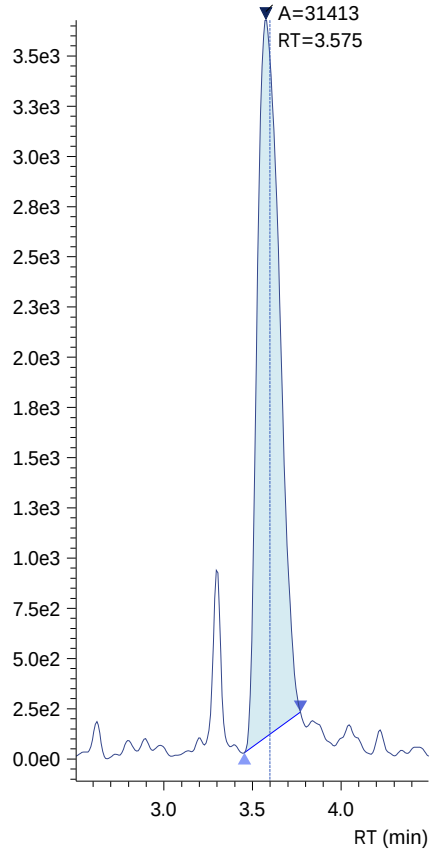
R1 101.00>85.00 (-) 1.27e5



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 3.68e3



Insight Report

Printed at 7/24/2023 9:31:17 AM

EQ2300351-05

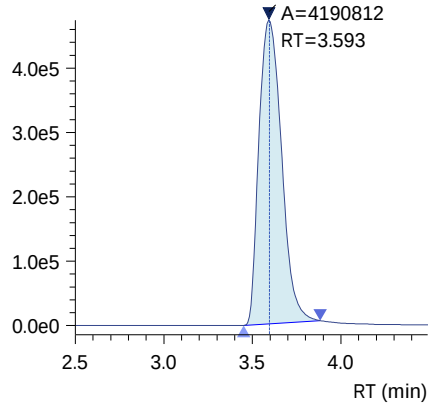
Sample ID: EQ2300351-05
Date Acquired: 7/21/2023 1:53:10 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230721\20230721-048.lcd
Vial: 10 | Inj. Volume: 10.0000uL | Tray: 4

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.593	4190812	32958	782.4309	ng/mL	101.00 >85.00	27.89	19.95-37.04
Sodium Perchlorate-18O4_IS	Auto	3.568	32958	32958	1.0000	ng/mL	----	----	

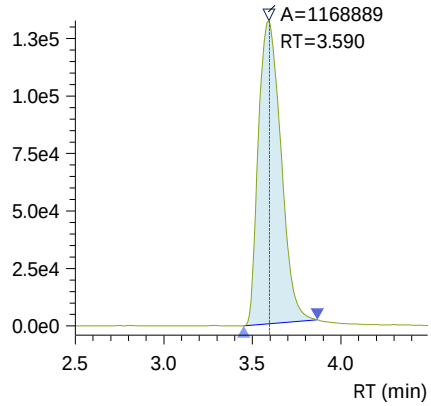
Perchlorate

Conc 782.4309
R#1 27.89 (28.49)

Q 99.00>83.00 (-) 4.74e5



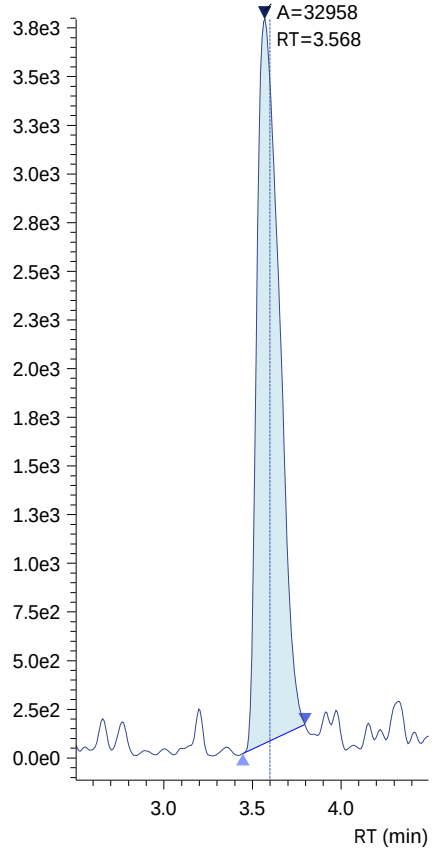
R1 101.00>85.00 (-) 1.33e5



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 3.80e3



Insight Report

Printed at 7/24/2023 9:31:17 AM

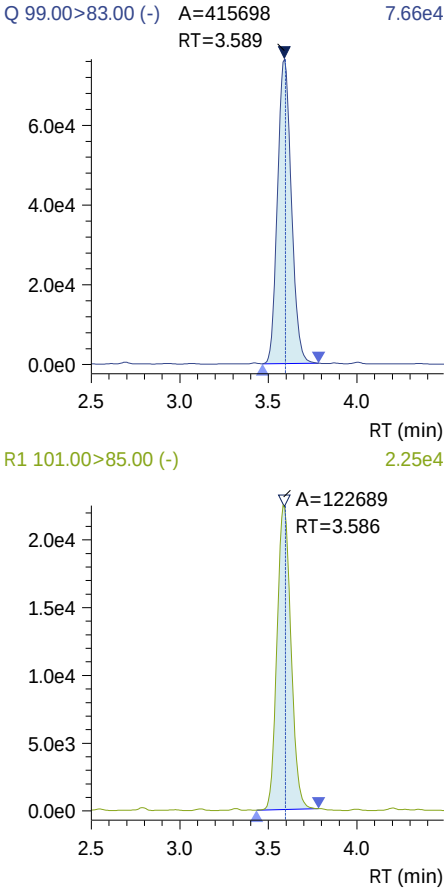
CCV

Sample ID: CCV
Date Acquired: 7/21/2023 1:58:39 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230721\20230721-049.lcd
Vial: 3 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.589	415698	254344	10.0568	ng/mL	101.00 >85.00	29.51	19.95-37.04
Sodium Perchlorate-18O4 _IS	Auto	3.585	254344	254344	1.0000	ng/mL	----	----	

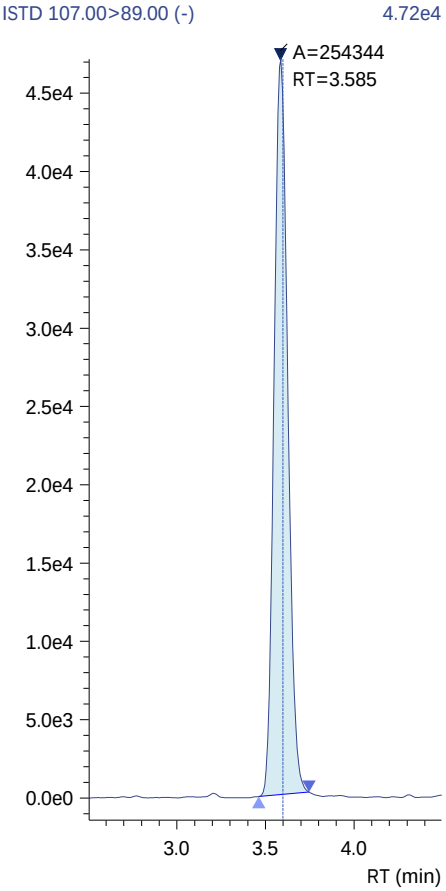
Perchlorate

Conc 10.0568
R#1 29.51 (28.49)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 7/24/2023 9:31:17 AM

IB

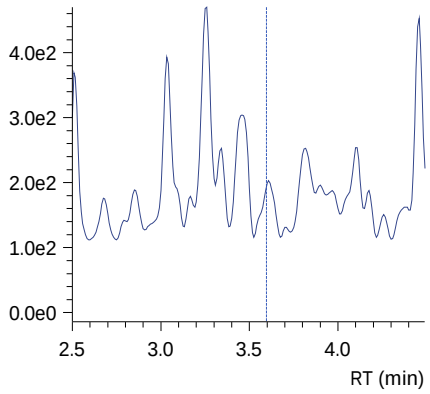
Sample ID: IB
Date Acquired: 7/21/2023 2:04:09 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230721\20230721-050.lcd
Vial: 4 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	ND(W/B)	----	----	328085	----	ng/mL	101.00 >85.00	0.00	19.95-37.04
Sodium Perchlorate-18O4_IS	Auto	3.585	328085	328085	1.0000	ng/mL	----	----	

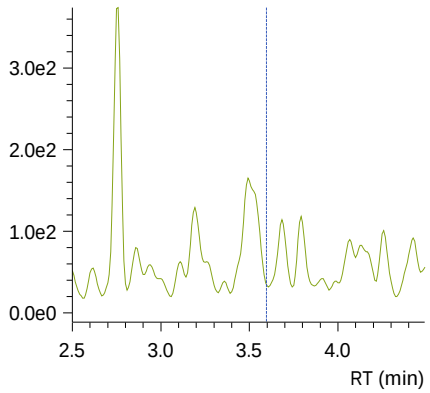
Perchlorate

Conc ----
R#1 0.00 (28.49)

Q 99.00>83.00 (-) 4.70e2



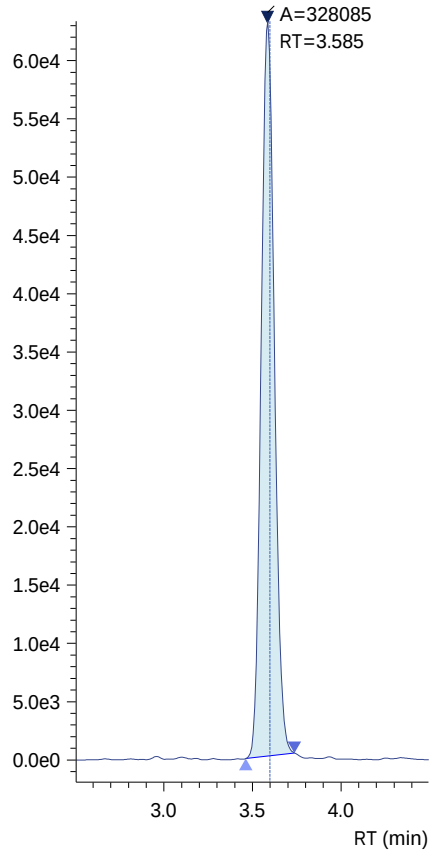
R1 101.00>85.00 (-) 3.74e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 6.34e4



Insight Report

Printed at 7/24/2023 9:31:17 AM

E2300640-004

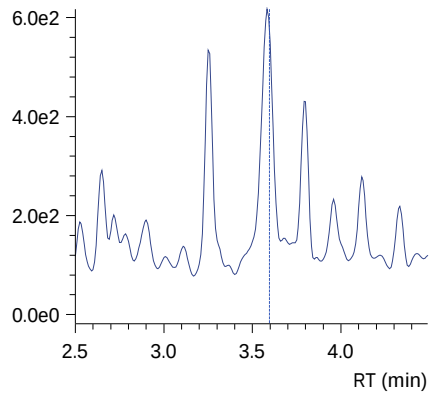
Sample ID: E2300640-004
Date Acquired: 7/21/2023 2:09:43 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230721\20230721-051.lcd
Vial: 31 | Inj. Volume: 10.0000uL | Tray: 3

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	ND(W/B)	----	----	338959	----	ng/mL	101.00 >85.00	0.00	19.95-37.04
Sodium Perchlorate-18O4_IS	Auto	3.584	338959	338959	1.0000	ng/mL	----	----	

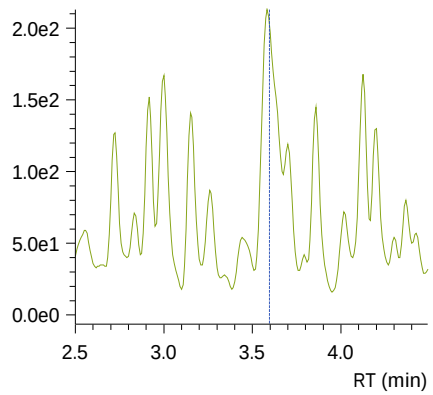
Perchlorate

Conc ----
R#1 0.00 (28.49)

Q 99.00>83.00 (-) 6.17e2



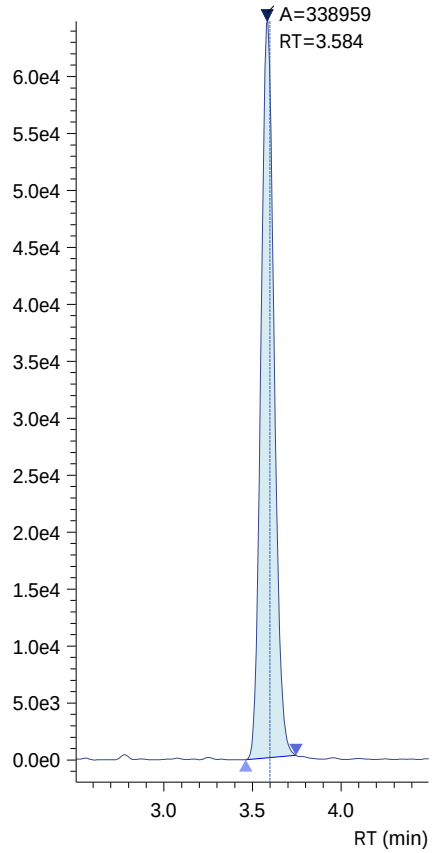
R1 101.00>85.00 (-) 2.13e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 6.49e4



Insight Report

Printed at 7/24/2023 9:31:17 AM

E2300640-005

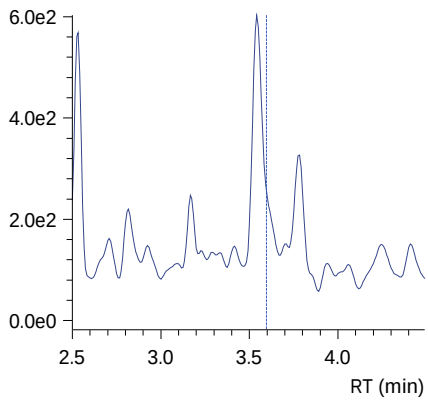
Sample ID: E2300640-005
Date Acquired: 7/21/2023 2:15:14 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230721\20230721-052.lcd
Vial: 32 | Inj. Volume: 10.0000uL | Tray: 3

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	ND(W/B)	----	----	338149	----	ng/mL	101.00 >85.00	0.00	19.95-37.04
Sodium Perchlorate-18O4_IS	Auto	3.584	338149	338149	1.0000	ng/mL	----	----	

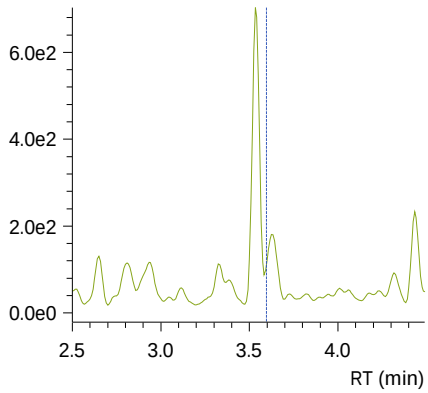
Perchlorate

Conc ----
R#1 0.00 (28.49)

Q 99.00>83.00 (-) 6.03e2



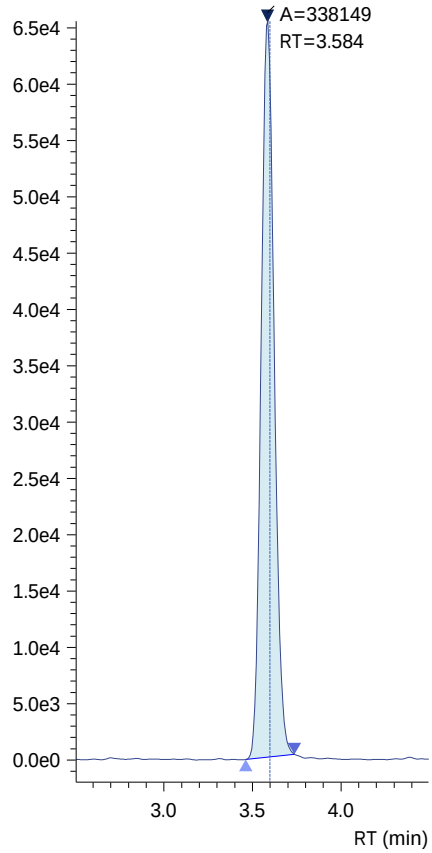
R1 101.00>85.00 (-) 7.03e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 6.56e4



Insight Report

Printed at 7/24/2023 9:31:17 AM

E2300640-006

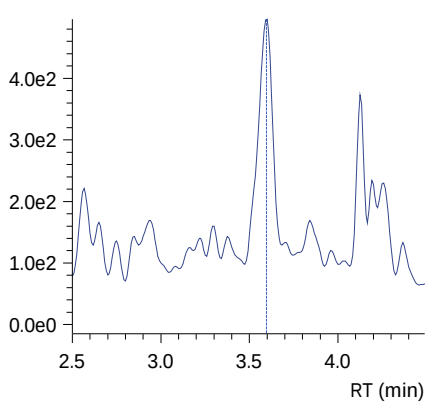
Sample ID: E2300640-006
Date Acquired: 7/21/2023 2:20:44 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230721\20230721-053.lcd
Vial: 33 | Inj. Volume: 10.0000uL | Tray: 3

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	ND(W/B)	----	----	336706	----	ng/mL	101.00 >85.00	0.00	19.95-37.04
Sodium Perchlorate-18O4_IS	Auto	3.585	336706	336706	1.0000	ng/mL	----	----	

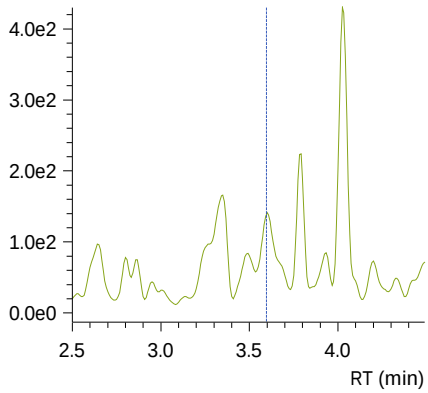
Perchlorate

Conc ----
R#1 0.00 (28.49)

Q 99.00>83.00 (-) 4.96e2



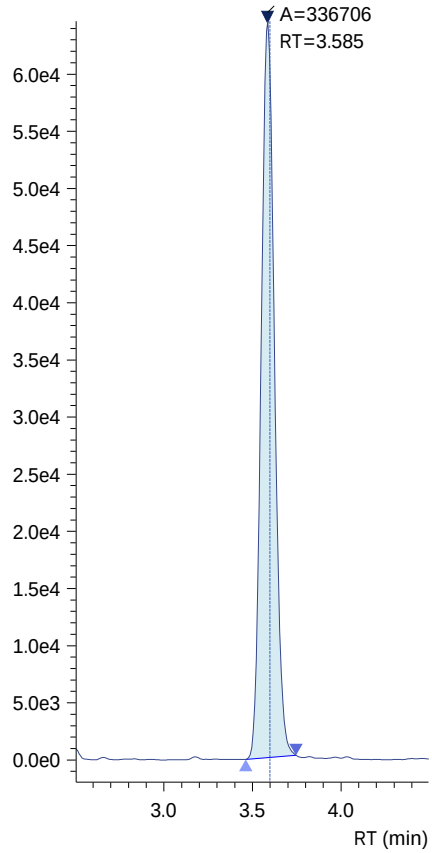
R1 101.00>85.00 (-) 4.30e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 6.46e4



Insight Report

Printed at 7/24/2023 9:31:17 AM

E2300640-007

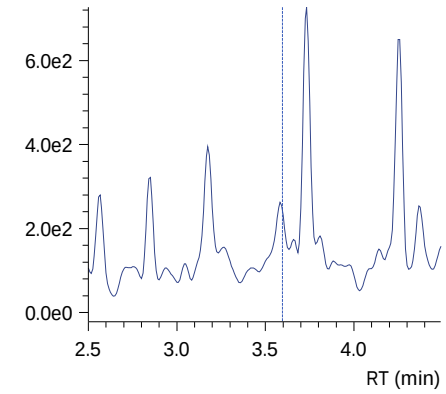
Sample ID: E2300640-007
Date Acquired: 7/21/2023 2:26:16 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230721\20230721-054.lcd
Vial: 34 | Inj. Volume: 10.0000uL | Tray: 3

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	ND(W/B)	----	----	338030	----	ng/mL	101.00 >85.00	0.00	19.95-37.04
Sodium Perchlorate-18O4_IS	Auto	3.584	338030	338030	1.0000	ng/mL	----	----	

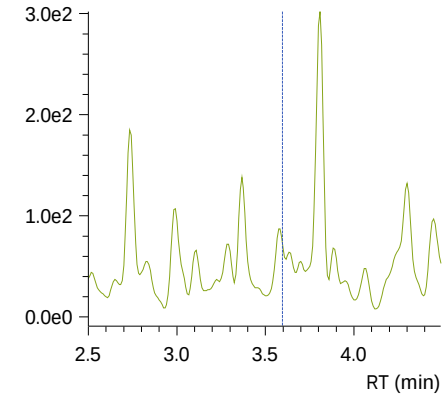
Perchlorate

Conc ----
R#1 0.00 (28.49)

Q 99.00>83.00 (-) 7.27e2



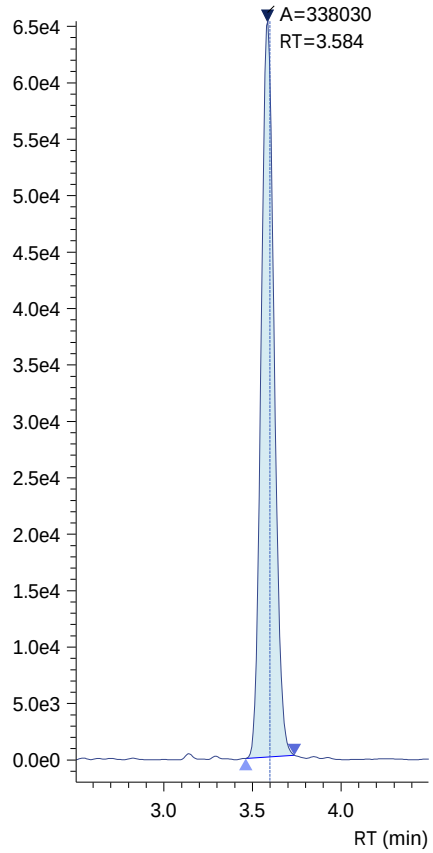
R1 101.00>85.00 (-) 3.02e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 6.55e4



Insight Report

Printed at 7/24/2023 9:31:17 AM

E2300640-008

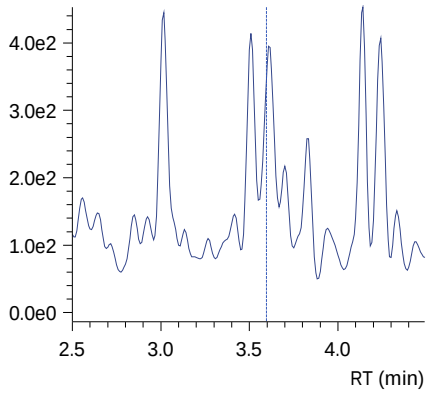
Sample ID: E2300640-008
Date Acquired: 7/21/2023 2:31:47 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230721\20230721-055.lcd
Vial: 35 | Inj. Volume: 10.0000uL | Tray: 3

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	ND(W/B)	----	----	339511	----	ng/mL	101.00 >85.00	0.00	19.95-37.04
Sodium Perchlorate-18O4_IS	Auto	3.586	339511	339511	1.0000	ng/mL	----	----	

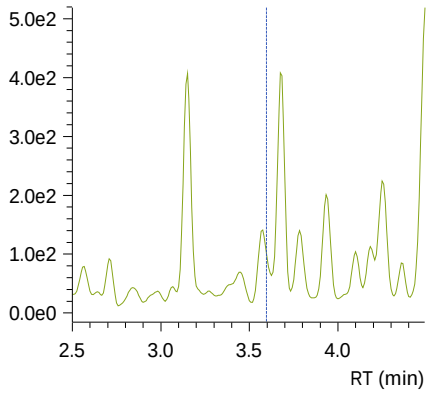
Perchlorate

Conc ----
R#1 0.00 (28.49)

Q 99.00>83.00 (-) 4.53e2



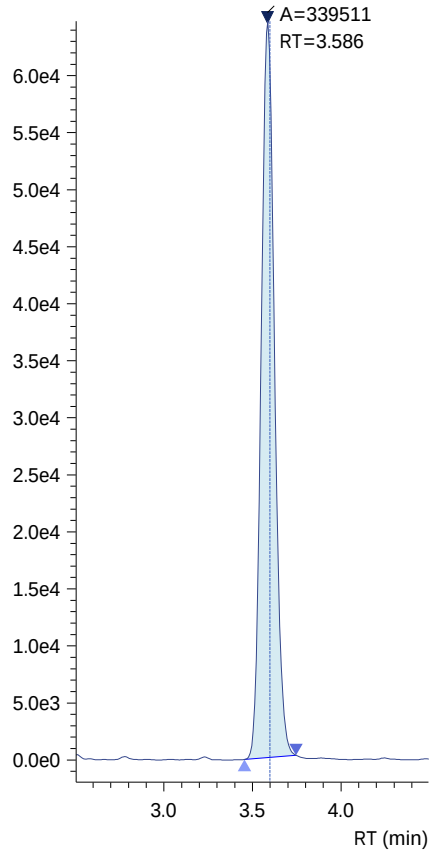
R1 101.00>85.00 (-) 5.19e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 6.48e4



Insight Report

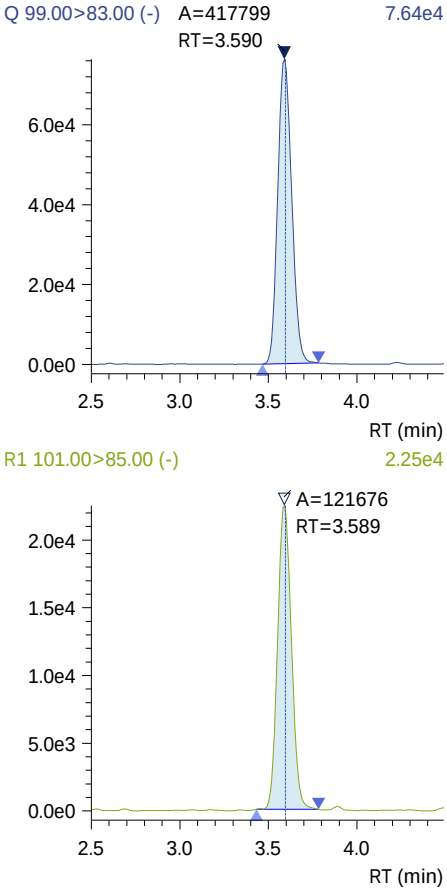
CCV

Sample ID: CCV
Date Acquired: 7/21/2023 3:44:45 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230721\20230721-060.lcd
Vial: 3 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.590	417799	253306	10.1491	ng/mL	101.00 >85.00	29.12	19.95-37.04
Sodium Perchlorate-18O4 _IS	Auto	3.588	253306	253306	1.0000	ng/mL	----	----	

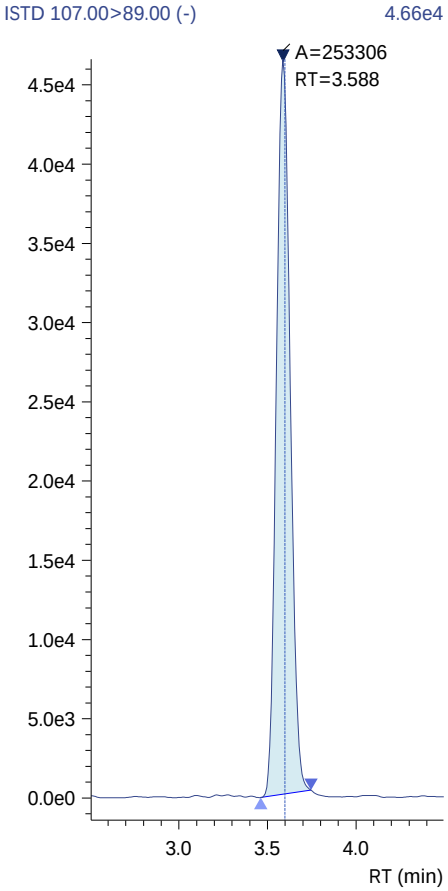
Perchlorate

Conc 10.1491
R#1 29.12 (28.49)



Sodium Perchlorate-18O4_IS

Conc 1.0000



HS23070546 Eurofin Lab J134453-1
Std_Tal_L4 Final Report

ALS WO# HS23070546

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Jumoke Lawal
ALS Group USA, Corp
10450 Stancliff Rd.
Suite 210
Houston TX 77099

Generated 7/19/2023 4:45 PM

JOB DESCRIPTION

HS23070546

JOB NUMBER

410-134453-1

Eurofins Lancaster Laboratories Environment Testing, LLC
2425 New Holland Pike
Lancaster PA 17601

See page two for job notes and contact information.

my EOL

Eurofins Lancaster Laboratories Environment Testing, LLC

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization

Generated
7/19/2023 4:45 PM

Authorized for release by
Kelly Bauer, Project Manager
Kelly.Bauer@et.eurofinsus.com
717 556-7262

Eurofins Lancaster Laboratories Environment Testing, LLC

Compliance Statement

Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments.
· QC results that exceed the upper limits and are associated with non-detect samples are qualified but further narration is not required since the bias is high and does not change a non-detect result. Further narration is also not required with QC blank detection when the associated sample concentration is non-detect or more than ten times the level in the blank.
· Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD is performed, unless otherwise specified in the method.
· Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.
Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Measurement uncertainty values, as applicable, are available upon request.

Test results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" and tested in the laboratory are not performed within 15 minutes of collection.

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Definitions/Glossary

Client: ALS Group USA, Corp
Job ID: 410-134453-1
Project/Site: HS23070546

Qualifiers

GC VOA

Qualifier	Qualifier Description
J1	Estimated: The quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.
M	Manual integrated compound.
U	Undetected at the Limit of Detection.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job Narrative
410-134453-1

Receipt
The samples were received on 7/13/2023 9:48 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.0°C

GC VOA
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Detection Summary

Client: ALS Group USA, Corp
Project/Site: HS23070546

Job ID: 410-134453-1

Client Sample ID: 16WW58-230711 — Lab Sample ID: 410-134453-1

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Carbon dioxide	130000		12000		2600	ug/L	1		RSK-175	Total/NA

Client Sample ID: 16WW57-230711 — Lab Sample ID: 410-134453-2

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Carbon dioxide	210000	M	12000		2600	ug/L	1		RSK-175	Total/NA

Client Sample ID: 16WW16-230711 — Lab Sample ID: 410-134453-3

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Carbon dioxide	120000	J1	12000		2600	ug/L	1		RSK-175	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: ALS Group USA, Corp
Project/Site: HS23070546

Job ID: 410-134453-1

Client Sample ID: 16WW58-230711
Lab Sample ID: 410-134453-1
Date Collected: 07/11/23 07:05
Matrix: Water
Date Received: 07/13/23 09:48

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Carbon dioxide	130000		12000		2600	ug/L		07/18/23 15:55	1

Client Sample ID: 16WW57-230711
Lab Sample ID: 410-134453-2
Date Collected: 07/11/23 07:50
Matrix: Water
Date Received: 07/13/23 09:48

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Carbon dioxide	210000	M	12000		2600	ug/L		07/18/23 16:11	1

Client Sample ID: 16WW16-230711
Lab Sample ID: 410-134453-3
Date Collected: 07/11/23 08:45
Matrix: Water
Date Received: 07/13/23 09:48

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Carbon dioxide	120000	J1	12000		2600	ug/L		07/18/23 16:19	1

Default Detection Limits

Client: ALS Group USA, Corp
Project/Site: HS23070546

Job ID: 410-134453-1

Method: RSK-175 - Dissolved Gases (GC)

Prep: RSK-175

Analyte	LOQ	DL	Units
Carbon dioxide	12000	2600	ug/L

QC Sample Results

Client: ALS Group USA, Corp
Project/Site: HS23070546

Job ID: 410-134453-1

Method: RSK-175 - Dissolved Gases (GC)

Lab Sample ID: MB 410-397965/1-A
Matrix: Water
Analysis Batch: 397918

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 397965

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Carbon dioxide	2600	U M	12000		2600	ug/L		07/18/23 10:47	1

Lab Sample ID: LCS 410-397965/2-A
Matrix: Water
Analysis Batch: 397918

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 397965

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Carbon dioxide			35800	36600		ug/L		102	80 - 122		

Lab Sample ID: 410-134453-3 MS
Matrix: Water
Analysis Batch: 397918

Client Sample ID: 16WW16-230711
Prep Type: Total/NA
Prep Batch: 397965

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Carbon dioxide	120000	J1	35800	135000	J1	ug/L		42	80 - 122		

Lab Sample ID: 410-134453-3 MSD
Matrix: Water
Analysis Batch: 397918

Client Sample ID: 16WW16-230711
Prep Type: Total/NA
Prep Batch: 397965

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Carbon dioxide	120000	J1	35800	138000	J1	ug/L		52	80 - 122	3	30

QC Association Summary

Client: ALS Group USA, Corp
Project/Site: HS23070546

Job ID: 410-134453-1

GC VOA

Analysis Batch: 397918

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-134453-1	16WW58-230711	Total/NA	Water	RSK-175	397965
410-134453-2	16WW57-230711	Total/NA	Water	RSK-175	397965
410-134453-3	16WW16-230711	Total/NA	Water	RSK-175	397965
MB 410-397965/1-A	Method Blank	Total/NA	Water	RSK-175	397965
LCS 410-397965/2-A	Lab Control Sample	Total/NA	Water	RSK-175	397965
410-134453-3 MS	16WW16-230711	Total/NA	Water	RSK-175	397965
410-134453-3 MSD	16WW16-230711	Total/NA	Water	RSK-175	397965

Prep Batch: 397965

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-134453-1	16WW58-230711	Total/NA	Water	RSK-175	
410-134453-2	16WW57-230711	Total/NA	Water	RSK-175	
410-134453-3	16WW16-230711	Total/NA	Water	RSK-175	
MB 410-397965/1-A	Method Blank	Total/NA	Water	RSK-175	
LCS 410-397965/2-A	Lab Control Sample	Total/NA	Water	RSK-175	
410-134453-3 MS	16WW16-230711	Total/NA	Water	RSK-175	
410-134453-3 MSD	16WW16-230711	Total/NA	Water	RSK-175	

Lab Chronicle

Client: ALS Group USA, Corp
Project/Site: HS23070546

Job ID: 410-134453-1

Client Sample ID: 16WW58-230711
Date Collected: 07/11/23 07:05
Date Received: 07/13/23 09:48

Lab Sample ID: 410-134453-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	RSK-175			397965	HQR6	ELLE	07/18/23 10:42
Total/NA	Analysis	RSK-175		1	397918	LXF2	ELLE	07/18/23 15:55

Client Sample ID: 16WW57-230711
Date Collected: 07/11/23 07:50
Date Received: 07/13/23 09:48

Lab Sample ID: 410-134453-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	RSK-175			397965	HQR6	ELLE	07/18/23 10:42
Total/NA	Analysis	RSK-175		1	397918	LXF2	ELLE	07/18/23 16:11

Client Sample ID: 16WW16-230711
Date Collected: 07/11/23 08:45
Date Received: 07/13/23 09:48

Lab Sample ID: 410-134453-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	RSK-175			397965	HQR6	ELLE	07/18/23 10:42
Total/NA	Analysis	RSK-175		1	397918	LXF2	ELLE	07/18/23 16:19

Laboratory References:
ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Accreditation/Certification Summary

Client: ALS Group USA, Corp
Job ID: 410-134453-1
Project/Site: HS23070546

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	0001.01	11-30-24

Method Summary

Client: ALS Group USA, Corp
Project/Site: HS23070546

Job ID: 410-134453-1

Method	Method Description	Protocol	Laboratory
RSK-175	Dissolved Gases (GC)	RSK	ELLE
RSK-175	Dissolved Gases Prep	RSK	ELLE

Protocol References:

RSK = Sample Prep And Calculations For Dissolved Gas Analysis In Water Samples Using A GC Headspace Equilibration Technique, RSKSOP-175, Rev. 0, 8/11/94, USEPA Research Lab

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Sample Summary

Client: ALS Group USA, Corp
Project/Site: HS23070546

Job ID: 410-134453-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
410-134453-1	16WW58-230711	Water	07/11/23 07:05	07/13/23 09:48
410-134453-2	16WW57-230711	Water	07/11/23 07:50	07/13/23 09:48
410-134453-3	16WW16-230711	Water	07/11/23 08:45	07/13/23 09:48

GC VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laborator Job No.: 410-134453-1

SDG No.:

Instrument ID: 19506-B Analysis Batch Number: 369251

Lab Sample ID: IC 410-369251/5 Client Sample ID:

Date Analyzed: 04/27/23 09:59 Lab File ID: 312023_04_27BB.0005.d GC Column: HP Plot ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Carbon dioxide	2.06	Baseline Smoothing	WN7O	04/28/23 07:18

Lab Sample ID: IC 410-369251/10 Client Sample ID:

Date Analyzed: 04/27/23 10:37 Lab File ID: 312023_04_27BB.0010.d GC Column: HP Plot ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Carbon dioxide	1.98	Baseline Smoothing	WN7O	04/28/23 07:17

GC VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laborator Job No.: 410-134453-1

SDG No.:

Instrument ID: 19506-B Analysis Batch Number: 397918

Lab Sample ID: MB 410-397965/1-A Client Sample ID:

Date Analyzed: 07/18/23 10:47 Lab File ID: 312023_07_18BB.0003.d GC Column: HP Plot ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Carbon dioxide	2.06	Peak not integrated	LXF2	07/19/23 03:20

Lab Sample ID: 410-134453-2 Client Sample ID: 16WW57-230711

Date Analyzed: 07/18/23 16:11 Lab File ID: 312023_07_18BB.0025.d GC Column: HP Plot ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Carbon dioxide	2.01	Peak not integrated	LXF2	07/19/23 03:21

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-134453-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
EPH_CO2ICV_00002	09/29/23	09/29/22	DI Water, Lot In House	1 mL	EPH_CO2XX_00002	0.0018 g	Carbon dioxide	547000 ppb
.EPH_CO2XX_00002	09/29/23	Air Products, Lot A214157			(Purchased Reagent)		Carbon dioxide	30.3889 %
EPH_CO2MS_00004	07/16/23	07/18/22	DI Water, Lot In House	1 g	EPH_CO2CRV_00002	0.0018 g	Carbon dioxide	1791000 ppb
.EPH_CO2CRV_00002	07/16/23	Praxair, Lot 4-11-18			(Purchased Reagent)		Carbon dioxide	99.5 %
EPH_CO2MS_00006	07/18/24	07/18/23	DI Water, Lot In House	1 g	EPH_CO2CRV_00003	0.0018 g	Carbon dioxide	1791000 ppb
.EPH_CO2CRV_00003	07/18/24	Praxair, Lot 4-11-18			(Purchased Reagent)		Carbon dioxide	99.5 %

Method RSK-175 CO2 DOD

Dissolved Gases (GC) by Method RSK_175_CO2 DOD

FORM III
GC VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-134453-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 312023_07_18BB.0004.d

Lab ID: LCS 410-397965/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Carbon dioxide	35800	36600	102	80-122	

Column to be used to flag recovery and RPD values

FORM III RSK-175

FORM III
GC VOA MATRIX SPIKE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-134453-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 312023_07_18BB.0027.d

Lab ID: 410-134453-3 MS Client ID: 16WW16-230711 MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
Carbon dioxide	35800	120000	135000	42	80-122	J1

Column to be used to flag recovery and RPD values

FORM III RSK-175

FORM III
GC VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-134453-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 312023_07_18BB.0028.d

Lab ID: 410-134453-3 MSD Client ID: 16WW16-230711 MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Carbon dioxide	35800	138000	52	3	30	80-122	J1

Column to be used to flag recovery and RPD values

FORM III RSK-175

FORM IV
GC VOA METHOD BLANK SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-134453-1

SDG No.:

Lab File ID: 312023_07_18BB.0003.d Lab Sample ID: MB 410-397965/1-A

Matrix: Water Heated Purge:(Y/N) N

Instrument ID: 19506-B Date Analyzed: 07/18/2023 10:47

GC Column: HP Plot ID: 0.53(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 410-397965/2-A	312023_07_18BB.0004.d	07/18/2023 10:54
16WW58-230711	410-134453-1	312023_07_18BB.0023.d	07/18/2023 15:55
16WW57-230711	410-134453-2	312023_07_18BB.0025.d	07/18/2023 16:11
16WW16-230711	410-134453-3	312023_07_18BB.0026.d	07/18/2023 16:19
16WW16-230711 MS	410-134453-3 MS	312023_07_18BB.0027.d	07/18/2023 16:27
16WW16-230711 MSD	410-134453-3 MSD	312023_07_18BB.0028.d	07/18/2023 16:34

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-134453-1

SDG No.:

Client Sample ID: 16WW58-230711 Lab Sample ID: 410-134453-1

Matrix: Water Lab File ID: 312023_07_18BB.0023.d

Analysis Method: RSK-175 Date Collected: 07/11/2023 07:05

Sample wt/vol: 5(mL) Date Analyzed: 07/18/2023 15:55

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: HP Plot ID: 0.53(mm)

Purge Volume: Heated Purge: (Y/N) N pH: 6.0

% Moisture: % Solids: Level: (low/med) Low

Analysis Batch No.: 397918 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	DL
124-38-9	Carbon dioxide	130000		12000	2600

Report Date: 19-Jul-2023 03:23:35 Chrom Revision: 2.3 11-Jul-2023 11:49:10

Eurofins Lancaster Laboratories Environment Testing, LLC

Target Compound Quantitation Report

Data File:	\\chromfs\Lancaster\ChromData\19506-B\20230718-89205.b\312023_07_18BB.0023.d				
Lims ID:	410-134453-A-1-A				
Client ID:	16WW58-230711				
Sample Type:	Client				
Inject. Date:	18-Jul-2023 15:55:00	ALS Bottle#:	0	Worklist Smp#:	23
Purge Vol:	1.000 mL	Dil. Factor:	1.0000		
Sample Info:					
Misc. Info.:	410-0089205-023				
Operator ID:		Instrument ID:	19506-B		
Method:	\\chromfs\Lancaster\ChromData\19506-B\20230718-89205.b\RSK_CO2_19506B.m				
Limit Group:	GCV - RSK175 CO2				
Last Update:	19-Jul-2023 03:23:32	Calib Date:	27-Apr-2023 10:37:00		
Integrator:	Genie				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\19506-B\20230427-82537.b\312023_04_27BB.0010.d				
Column 1 :	HP Plot (0.00 mm)		Det: 0FIDA		
Process Host:	CTX1624				

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/l	Flags
1 Carbon dioxide	2.034	2.054	-0.020	413805119	125772	H

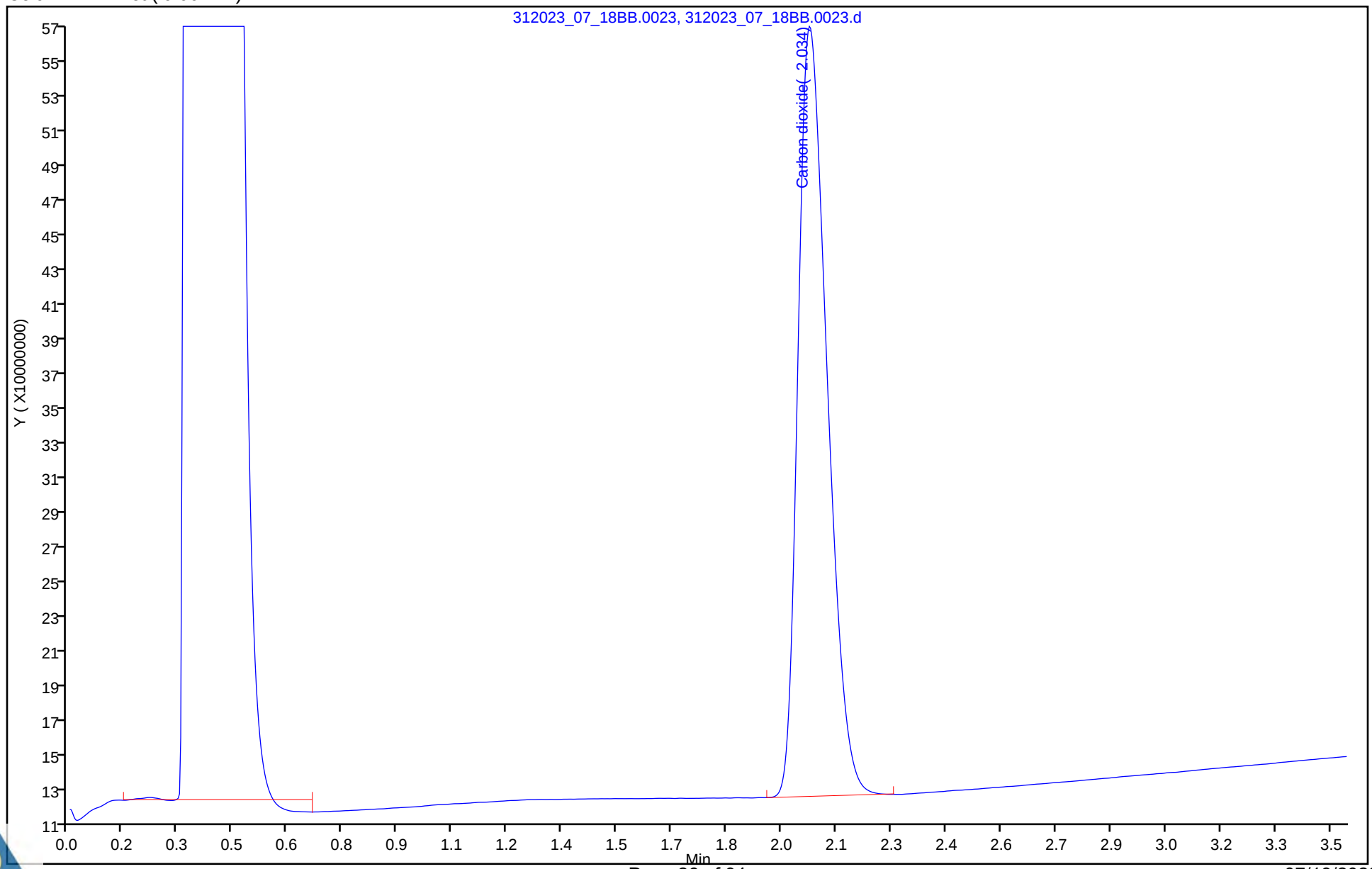
Report Date: 19-Jul-2023 03:23:35 Chrom Revision: 2.3 11-Jul-2023 11:49:10

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19506-B\20230718-89205.b\312023_07_18BB.0023.d

Injection Date:	18-Jul-2023 15:55:00	Instrument ID:	19506-B	Operator ID:	
Lims ID:	410-134453-A-1-A	Lab Sample ID:	410-134453-1	Worklist Smp#:	23
Client ID:	16WW58-230711				
Purge Vol:	1.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	RSK_CO2_19506B	Limit Group:	GCV - RSK175 CO2		

Column: HP Plot (0.00 mm)



FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-134453-1

SDG No.:

Client Sample ID: 16WW57-230711 Lab Sample ID: 410-134453-2

Matrix: Water Lab File ID: 312023_07_18BB.0025.d

Analysis Method: RSK-175 Date Collected: 07/11/2023 07:50

Sample wt/vol: 5(mL) Date Analyzed: 07/18/2023 16:11

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: HP Plot ID: 0.53(mm)

Purge Volume: Heated Purge: (Y/N) N pH: 6.0

% Moisture: % Solids: Level: (low/med) Low

Analysis Batch No.: 397918 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	DL
124-38-9	Carbon dioxide	210000	M	12000	2600

Report Date: 19-Jul-2023 03:23:36 Chrom Revision: 2.3 11-Jul-2023 11:49:10

Eurofins Lancaster Laboratories Environment Testing, LLC

Target Compound Quantitation Report

Data File:	\\chromfs\Lancaster\ChromData\19506-B\20230718-89205.b\312023_07_18BB.0025.d				
Lims ID:	410-134453-A-2-A				
Client ID:	16WW57-230711				
Sample Type:	Client				
Inject. Date:	18-Jul-2023 16:11:00	ALS Bottle#:	0	Worklist Smp#:	25
Purge Vol:	1.000 mL	Dil. Factor:	1.0000		
Sample Info:					
Misc. Info.:	410-0089205-025				
Operator ID:		Instrument ID:	19506-B		
Method:	\\chromfs\Lancaster\ChromData\19506-B\20230718-89205.b\RSK_CO2_19506B.m				
Limit Group:	GCV - RSK175 CO2				
Last Update:	19-Jul-2023 03:23:36	Calib Date:	27-Apr-2023 10:37:00		
Integrator:	Genie				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\19506-B\20230427-82537.b\312023_04_27BB.0010.d				
Column 1 :	HP Plot (0.00 mm)		Det: 0FIDA		
Process Host:	CTX1624				
First Level Reviewer: LXF2		Date:	19-Jul-2023 03:22:02		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/l	Flags
1 Carbon dioxide	2.014	2.054	-0.040	693868367H	210894	a

QC Flag Legend

Processing Flags

H - Response Measured by Height

Review Flags

a - User Assigned ID

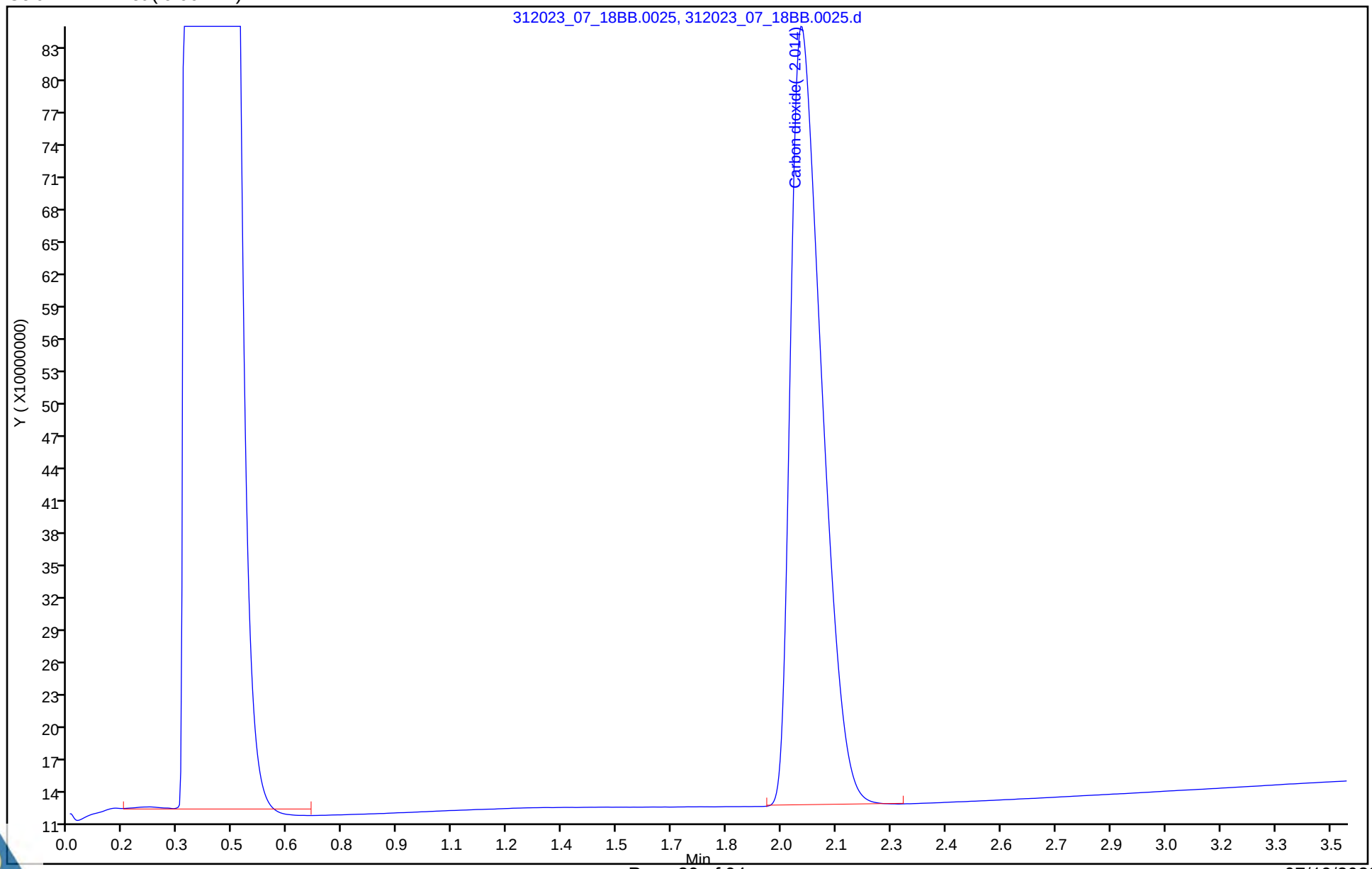
Report Date: 19-Jul-2023 03:23:36 Chrom Revision: 2.3 11-Jul-2023 11:49:10

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19506-B\20230718-89205.b\312023_07_18BB.0025.d

Injection Date:	18-Jul-2023 16:11:00	Instrument ID:	19506-B	Operator ID:	
Lims ID:	410-134453-A-2-A	Lab Sample ID:	410-134453-2	Worklist Smp#:	25
Client ID:	16WW57-230711				
Purge Vol:	1.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	RSK_CO2_19506B	Limit Group:	GCV - RSK175 CO2		

Column: HP Plot (0.00 mm)



Report Date: 19-Jul-2023 03:23:36 Chrom Revision: 2.3 11-Jul-2023 11:49:10 Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

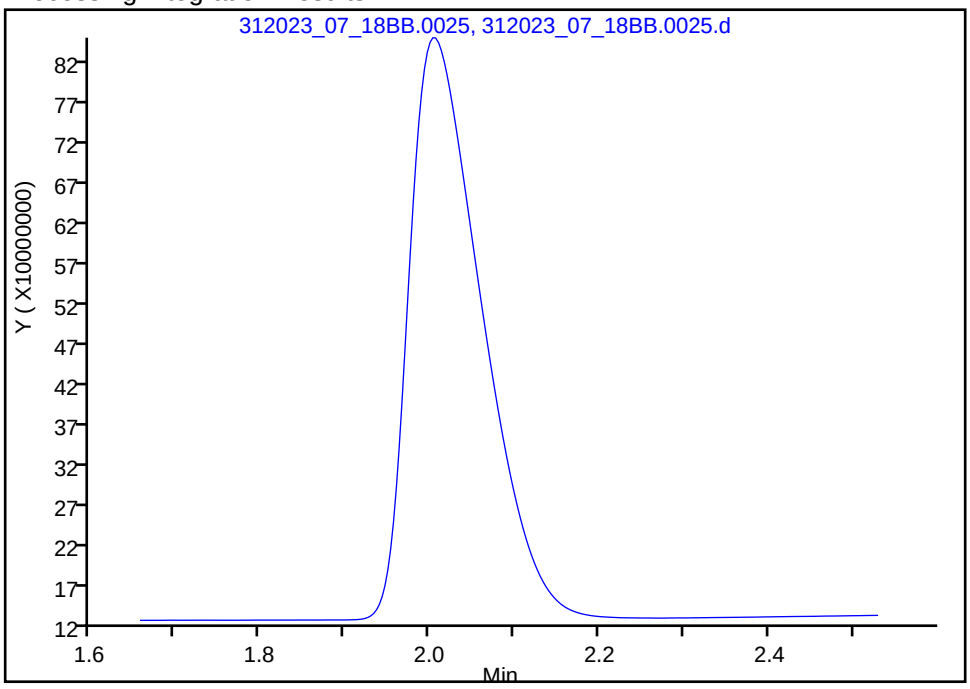
Data File:	\\chromfs\Lancaster\ChromData\19506-B\20230718-89205.b\312023_07_18BB.0025.d				
Injection Date:	18-Jul-2023 16:11:00	Instrument ID:	19506-B		
Lims ID:	410-134453-A-2-A	Lab Sample ID:	410-134453-2		
Client ID:	16WW57-230711				
Operator ID:		ALS Bottle#:	0	Worklist Smp#:	25
Purge Vol:	1.000 mL	Dil. Factor:	1.0000		
Method:	RSK_CO2_19506B	Limit Group:	GCV - RSK175 CO2		
Column:	HP Plot (0.00 mm)	Detector	0FIDA		

1 Carbon dioxide, CAS: 124-38-9

Signal: 1

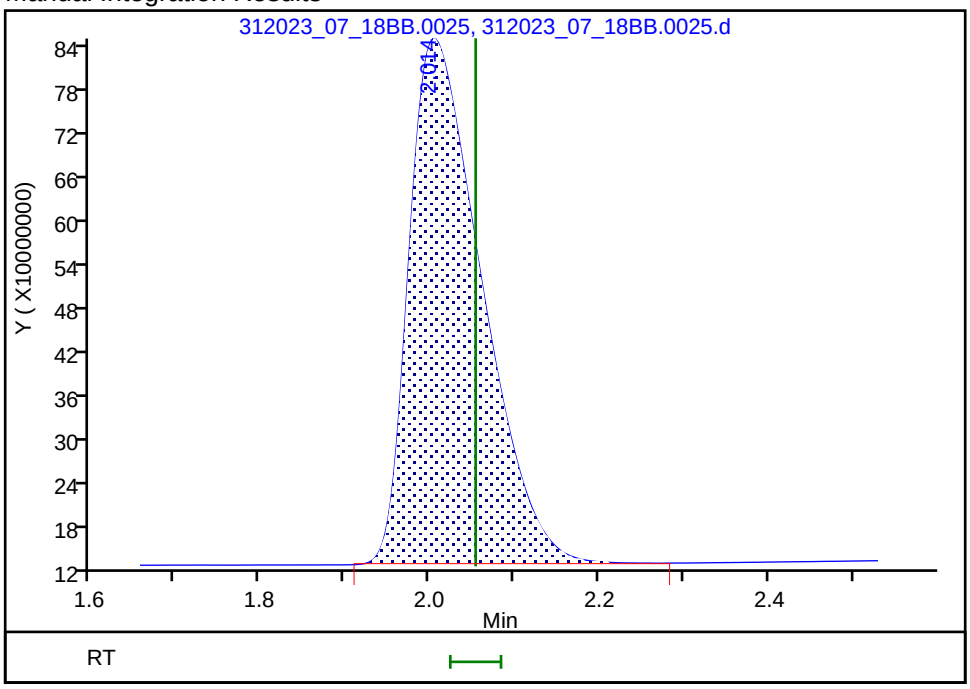
Not Detected
Expected RT: 2.05

Processing Integration Results



Manual Integration Results

RT: 2.01
Height: 693868367
Amount: 210894
Amount Units: ug/l



Reviewer: LXF2, 19-Jul-2023 03:21:59 -04:00:00 (UTC)
Audit Action: Assigned Compound ID Audit Reason: Peak not integrated

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-134453-1

SDG No.:

Client Sample ID: 16WW16-230711
Lab Sample ID: 410-134453-3

Matrix: Water
Lab File ID: 312023_07_18BB.0026.d

Analysis Method: RSK-175
Date Collected: 07/11/2023 08:45

Sample wt/vol: 5(mL)
Date Analyzed: 07/18/2023 16:19

Soil Aliquot Vol:
Dilution Factor: 1

Soil Extract Vol.:
GC Column: HP Plot ID: 0.53(mm)

Purge Volume:
Heated Purge: (Y/N) N pH: 7.0

% Moisture: % Solids:
Level: (low/med) Low

Analysis Batch No.: 397918
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	DL
124-38-9	Carbon dioxide	120000	J1	12000	2600

Report Date: 19-Jul-2023 03:23:36 Chrom Revision: 2.3 11-Jul-2023 11:49:10

Eurofins Lancaster Laboratories Environment Testing, LLC

Target Compound Quantitation Report

Data File:	\\chromfs\Lancaster\ChromData\19506-B\20230718-89205.b\312023_07_18BB.0026.d				
Lims ID:	410-134453-A-3-A				
Client ID:	16WW16-230711				
Sample Type:	Client				
Inject. Date:	18-Jul-2023 16:19:00	ALS Bottle#:	0	Worklist Smp#:	26
Purge Vol:	1.000 mL	Dil. Factor:	1.0000		
Sample Info:					
Misc. Info.:	410-0089205-026				
Operator ID:		Instrument ID:	19506-B		
Method:	\\chromfs\Lancaster\ChromData\19506-B\20230718-89205.b\RSK_CO2_19506B.m				
Limit Group:	GCV - RSK175 CO2				
Last Update:	19-Jul-2023 03:23:36	Calib Date:	27-Apr-2023 10:37:00		
Integrator:	Genie				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\19506-B\20230427-82537.b\312023_04_27BB.0010.d				
Column 1 :	HP Plot (0.00 mm)		Det: 0FIDA		
Process Host:	CTX1624				

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/l	Flags
1 Carbon dioxide	2.034	2.054	-0.020	392953324	119434	H

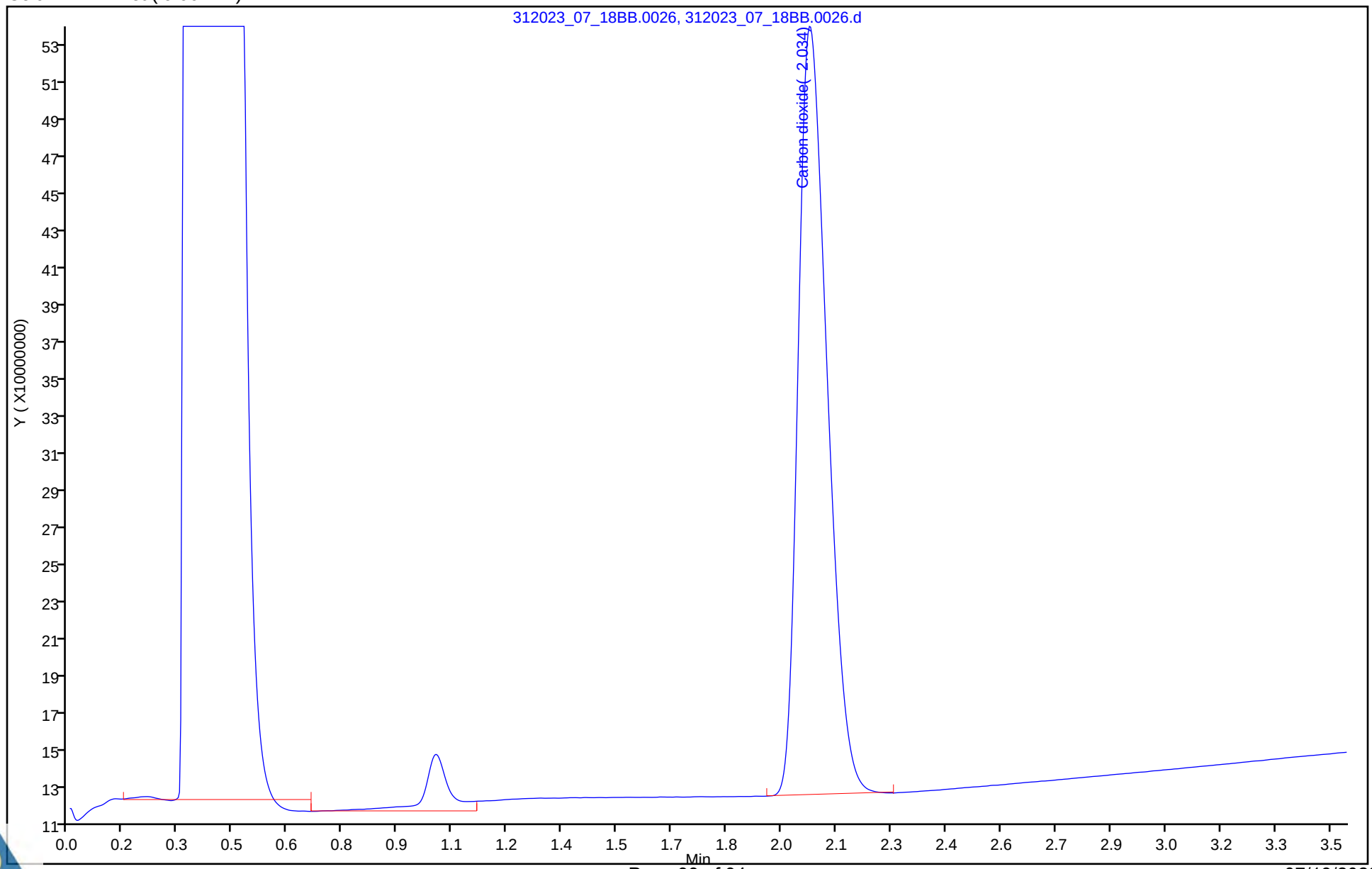
Report Date: 19-Jul-2023 03:23:36 Chrom Revision: 2.3 11-Jul-2023 11:49:10

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19506-B\20230718-89205.b\312023_07_18BB.0026.d

Injection Date:	18-Jul-2023 16:19:00	Instrument ID:	19506-B	Operator ID:	
Lims ID:	410-134453-A-3-A	Lab Sample ID:	410-134453-3	Worklist Smp#:	26
Client ID:	16WW16-230711				
Purge Vol:	1.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	RSK_CO2_19506B	Limit Group:	GCV - RSK175 CO2		

Column: HP Plot (0.00 mm)



FORM VI
GC VOA BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
RETENTION TIME SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-134453-1 Analy Batch No.: 369251

SDG No.:

Instrument ID: 19506-B GC Column: HP Plot ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/27/2023 09:59 Calibration End Date: 04/27/2023 10:37 Calibration ID: 49603

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-369251/5	312023_04_27BB.0005.d
Level 2	IC 410-369251/6	312023_04_27BB.0006.d
Level 3	ICRT 410-369251/7	312023_04_27BB.0007.d
Level 4	IC 410-369251/8	312023_04_27BB.0008.d
Level 5	IC 410-369251/9	312023_04_27BB.0009.d
Level 6	IC 410-369251/10	312023_04_27BB.0010.d

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6					RT WINDOW	AVG RT
Carbon dioxide	2.060	2.059	2.054	2.043	2.024	1.983					2.024 - 2.084	2.037

FORM VI
GC VOA BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-134453-1 Analy Batch No.: 369251

SDG No.:

Instrument ID: 19506-B GC Column: HP Plot ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/27/2023 09:59 Calibration End Date: 04/27/2023 10:37 Calibration ID: 49603

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-369251/5	312023_04_27BB.0005.d
Level 2	IC 410-369251/6	312023_04_27BB.0006.d
Level 3	ICRT 410-369251/7	312023_04_27BB.0007.d
Level 4	IC 410-369251/8	312023_04_27BB.0008.d
Level 5	IC 410-369251/9	312023_04_27BB.0009.d
Level 6	IC 410-369251/10	312023_04_27BB.0010.d

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5	LVL 2 LVL 6	LVL 3	LVL 4		B	M1	M2								
Carbon dioxide	3853.7 3132.6	3271.4 2761.6	3403.0	3318.5	Ave		3290.12214				10.8		20.0			

Note: The M1 coefficient is the same as Ave CF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
GC VOA BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-134453-1 Analy Batch No.: 369251

SDG No.:

Instrument ID: 19506-B GC Column: HP Plot ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/27/2023 09:59 Calibration End Date: 04/27/2023 10:37 Calibration ID: 49603

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-369251/5	312023_04_27BB.0005.d
Level 2	IC 410-369251/6	312023_04_27BB.0006.d
Level 3	ICRT 410-369251/7	312023_04_27BB.0007.d
Level 4	IC 410-369251/8	312023_04_27BB.0008.d
Level 5	IC 410-369251/9	312023_04_27BB.0009.d
Level 6	IC 410-369251/10	312023_04_27BB.0010.d

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
		LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Carbon dioxide	Ave	41411686 989211697	70308888	121893696	297170647	561047460	10746 358200	21492	35820	89550	179100

Curve Type Legend
Ave = Average by Height

Report Date: 28-Apr-2023 07:19:05 Chrom Revision: 2.3 20-Apr-2023 08:27:48

Eurofins Lancaster Laboratories Environment Testing, LLC

Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19506-B\20230427-82537.b\312023_04_27BB.0005.d
Lims ID: ic
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 27-Apr-2023 09:59:00 ALS Bottle#: 0 Worklist Smp#: 5
Purge Vol: 1.000 mL Dil. Factor: 1.0000
Sample Info:
Misc. Info.: 410-0082537-005
Operator ID: Instrument ID: 19506-B
Sublist: chrom-RSK_CO2_19506B*sub1

Method: \\chromfs\Lancaster\ChromData\19506-B\20230427-82537.b\RSK_CO2_19506B.m
Limit Group: GCV - RSK175 CO2
Last Update: 28-Apr-2023 07:19:05 Calib Date: 27-Apr-2023 10:37:00
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19506-B\20230427-82537.b\312023_04_27BB.0010.d

Column 1 : HP Plot (0.00 mm) Det: 0FIDA
Process Host: CTX1628

First Level Reviewer: WN7O Date: 28-Apr-2023 07:18:31

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Carbon dioxide	2.060	2.054	0.006	41411686H	10746	12587	M

QC Flag Legend

Processing Flags
H - Response Measured by Height
Review Flags
M - Manually Integrated

Reagents:

EPH_CO2MS_00004 Amount Added: 30.00 Units: uL

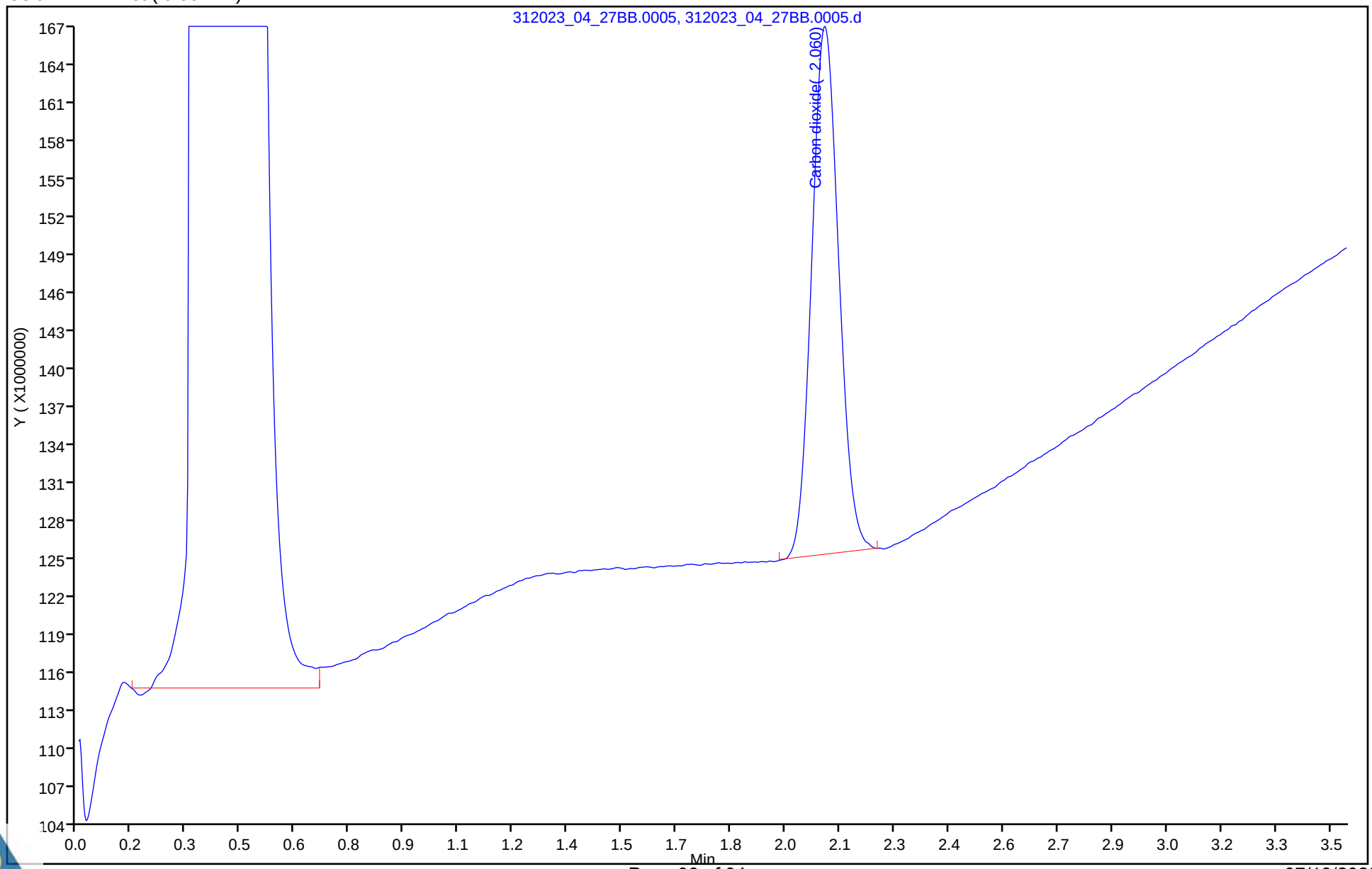
Report Date: 28-Apr-2023 07:19:05 Chrom Revision: 2.3 20-Apr-2023 08:27:48

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19506-B\20230427-82537.b\312023_04_27BB.0005.d

Injection Date:	27-Apr-2023 09:59:00	Instrument ID:	19506-B	Operator ID:	
Lims ID:	ic			Worklist Smp#:	5
Client ID:					
Purge Vol:	1.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	RSK_CO2_19506B	Limit Group:	GCV - RSK175 CO2		

Column: HP Plot (0.00 mm)



Report Date: 28-Apr-2023 07:19:05 Chrom Revision: 2.3 20-Apr-2023 08:27:48 Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

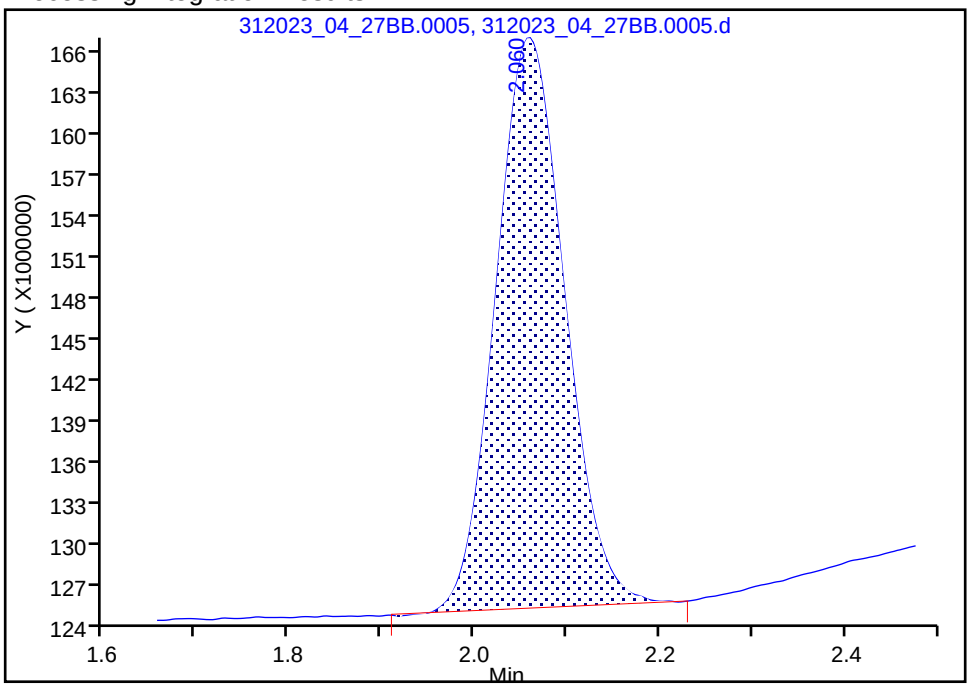
Data File: \\chromfs\Lancaster\ChromData\19506-B\20230427-82537.b\312023_04_27BB.0005.d
Injection Date: 27-Apr-2023 09:59:00 Instrument ID: 19506-B
Lims ID: ic
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 5
Purge Vol: 1.000 mL Dil. Factor: 1.0000
Method: RSK_CO2_19506B Limit Group: GCV - RSK175 CO2
Column: HP Plot (0.00 mm) Detector 0FIDA

1 Carbon dioxide, CAS: 124-38-9

Signal: 1

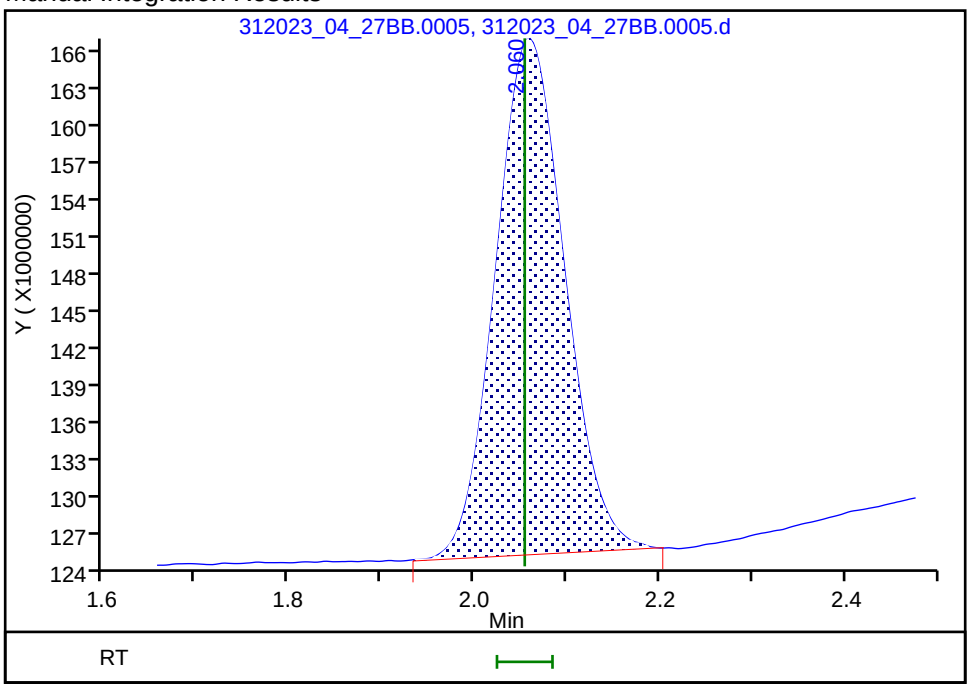
Processing Integration Results

RT: 2.06
Height: 40493056
Amount: 12361
Amount Units: ug/l



Manual Integration Results

RT: 2.06
Height: 41411686
Amount: 12587
Amount Units: ug/l



Reviewer: WN7O, 28-Apr-2023 07:18:28
Audit Action: Manually Integrated Audit Reason: Baseline Smoothing

Report Date: 28-Apr-2023 07:19:06 Chrom Revision: 2.3 20-Apr-2023 08:27:48

Eurofins Lancaster Laboratories Environment Testing, LLC

Target Compound Quantitation Report

Data File:	\\chromfs\Lancaster\ChromData\19506-B\20230427-82537.b\312023_04_27BB.0006.d				
Lims ID:	ic				
Client ID:					
Sample Type:	IC	Calib Level:	2		
Inject. Date:	27-Apr-2023 10:06:00	ALS Bottle#:	0	Worklist Smp#:	6
Purge Vol:	1.000 mL	Dil. Factor:	1.0000		
Sample Info:					
Misc. Info.:	410-0082537-006				
Operator ID:		Instrument ID:	19506-B		
Sublist:	chrom-RSK_CO2_19506B*sub1				
Method:	\\chromfs\Lancaster\ChromData\19506-B\20230427-82537.b\RSK_CO2_19506B.m				
Limit Group:	GCV - RSK175 CO2				
Last Update:	28-Apr-2023 07:19:06	Calib Date:	27-Apr-2023 10:37:00		
Integrator:	Genie				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\19506-B\20230427-82537.b\312023_04_27BB.0010.d				
Column 1 :	HP Plot (0.00 mm)		Det: 0FIDA		
Process Host:	CTX1628				

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Carbon dioxide	2.059	2.054	0.005	70308888H	21492	21370	

Reagents:

EPH_CO2MS_00004 Amount Added: 60.00 Units: uL

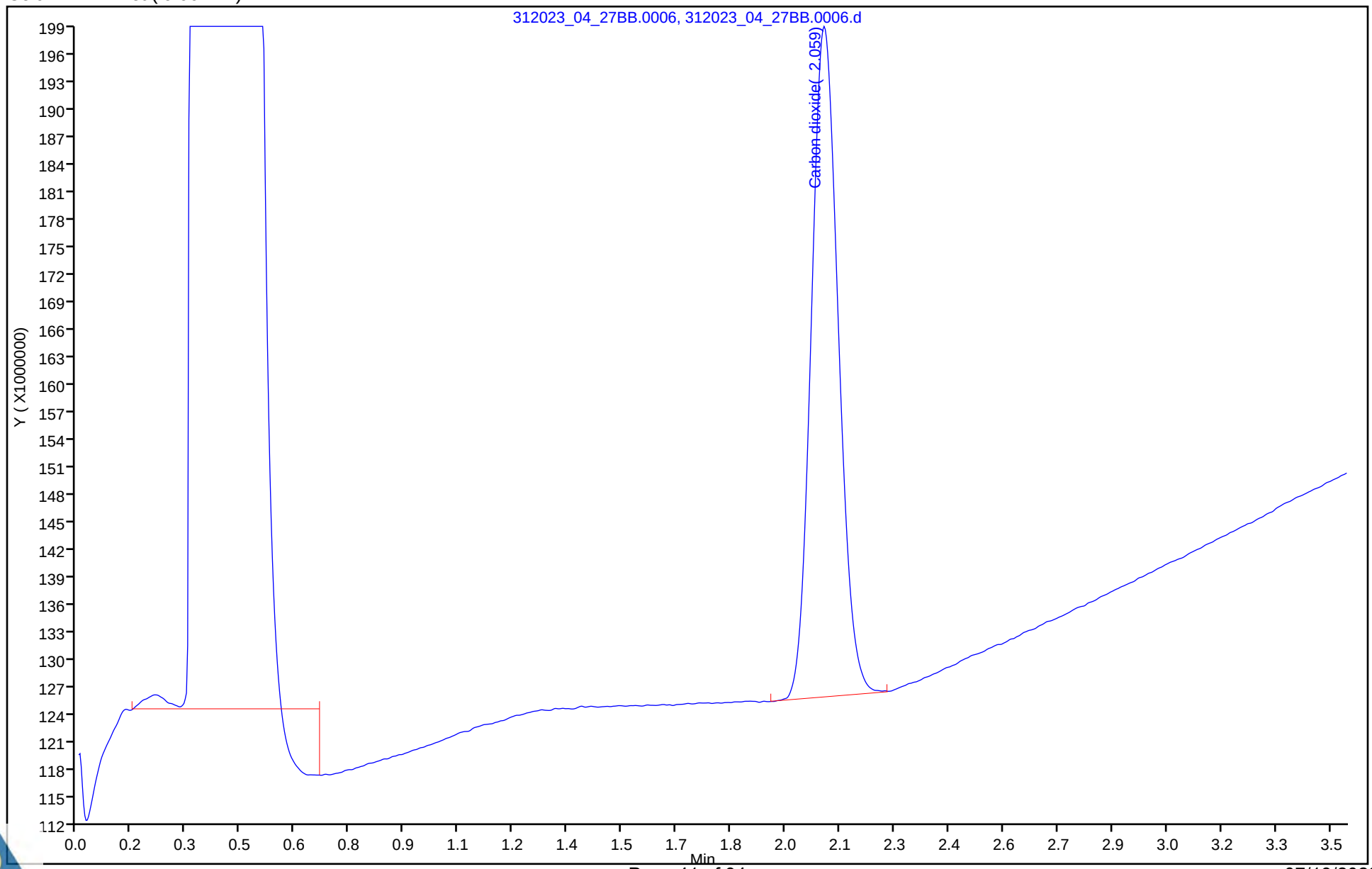
Report Date: 28-Apr-2023 07:19:06 Chrom Revision: 2.3 20-Apr-2023 08:27:48

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19506-B\20230427-82537.b\312023_04_27BB.0006.d

Injection Date:	27-Apr-2023 10:06:00	Instrument ID:	19506-B	Operator ID:	
Lims ID:	ic			Worklist Smp#:	6
Client ID:					
Purge Vol:	1.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	RSK_CO2_19506B	Limit Group:	GCV - RSK175 CO2		

Column: HP Plot (0.00 mm)



Report Date: 28-Apr-2023 07:19:08 Chrom Revision: 2.3 20-Apr-2023 08:27:48

Eurofins Lancaster Laboratories Environment Testing, LLC

Target Compound Quantitation Report

Data File:	\\chromfs\Lancaster\ChromData\19506-B\20230427-82537.b\312023_04_27BB.0007.d				
Lims ID:	icrt				
Client ID:					
Sample Type:	ICRT	Calib Level:	3		
Inject. Date:	27-Apr-2023 10:14:00	ALS Bottle#:	0	Worklist Smp#:	7
Purge Vol:	1.000 mL	Dil. Factor:	1.0000		
Sample Info:					
Misc. Info.:	410-0082537-007				
Operator ID:		Instrument ID:	19506-B		
Sublist:	chrom-RSK_CO2_19506B*sub1				
Method:	\\chromfs\Lancaster\ChromData\19506-B\20230427-82537.b\RSK_CO2_19506B.m				
Limit Group:	GCV - RSK175 CO2				
Last Update:	28-Apr-2023 07:19:08	Calib Date:	27-Apr-2023 10:37:00		
Integrator:	Genie				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\19506-B\20230427-82537.b\312023_04_27BB.0010.d				
Column 1 :	HP Plot (0.00 mm)		Det: 0FIDA		
Process Host:	CTX1628				

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Carbon dioxide	2.054	2.054	0.000	121893696	H 35820	37048	

Reagents:

EPH_CO2MS_00004 Amount Added: 100.00 Units: uL

Report Date: 28-Apr-2023 07:19:08 Chrom Revision: 2.3 20-Apr-2023 08:27:48

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19506-B\20230427-82537.b\312023_04_27BB.0007.d

Injection Date: 27-Apr-2023 10:14:00 Instrument ID: 19506-B Operator ID:

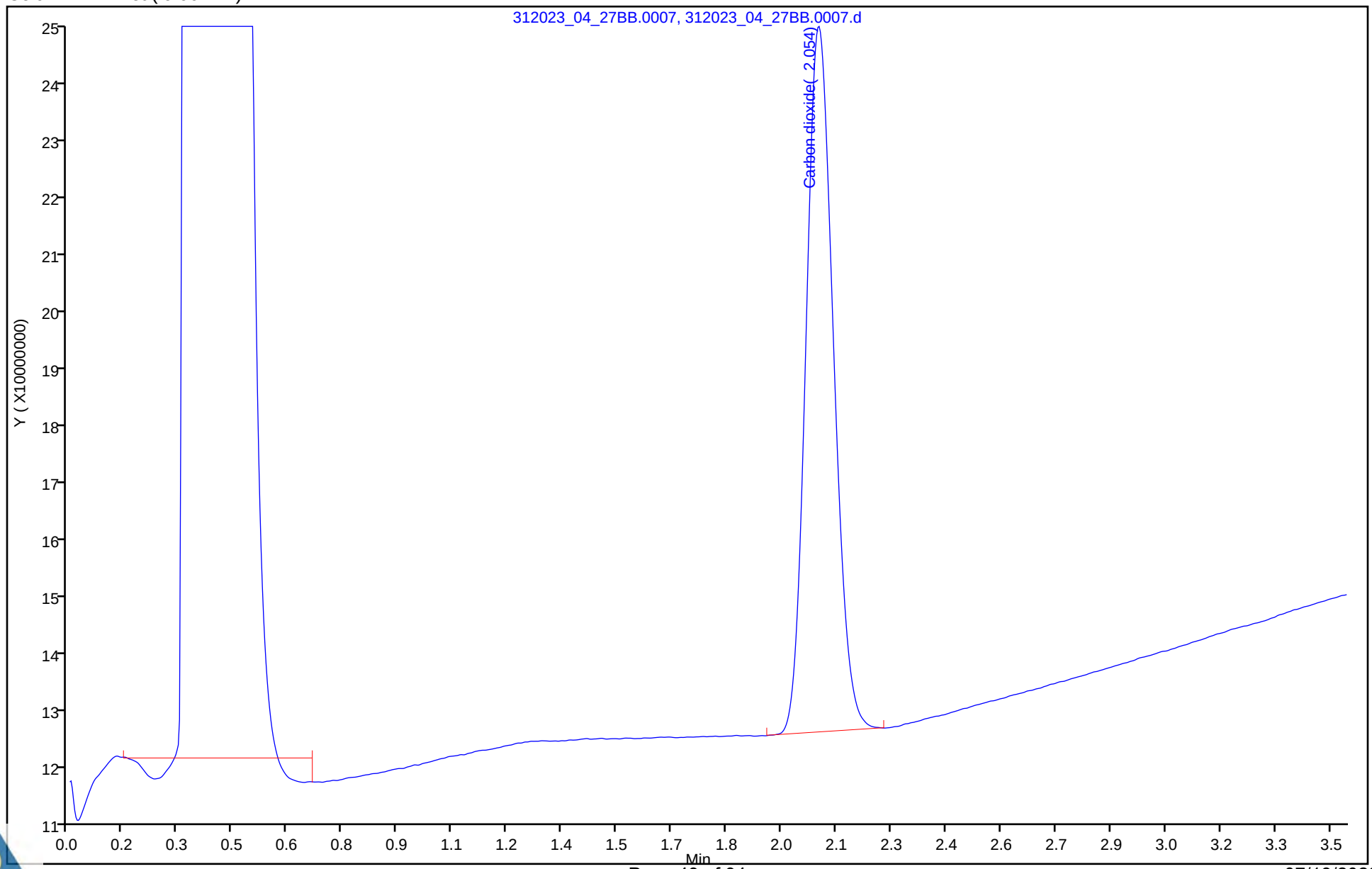
Lims ID: icrt Worklist Smp#: 7

Client ID:

Purge Vol: 1.000 mL Dil. Factor: 1.0000 ALS Bottle#: 0

Method: RSK_CO2_19506B Limit Group: GCV - RSK175 CO2

Column: HP Plot (0.00 mm)



Report Date: 28-Apr-2023 07:19:09 Chrom Revision: 2.3 20-Apr-2023 08:27:48

Eurofins Lancaster Laboratories Environment Testing, LLC

Target Compound Quantitation Report

Data File:	\\chromfs\Lancaster\ChromData\19506-B\20230427-82537.b\312023_04_27BB.0008.d				
Lims ID:	ic				
Client ID:					
Sample Type:	IC	Calib Level:	4		
Inject. Date:	27-Apr-2023 10:22:00	ALS Bottle#:	0	Worklist Smp#:	8
Purge Vol:	1.000 mL	Dil. Factor:	1.0000		
Sample Info:					
Misc. Info.:	410-0082537-008				
Operator ID:		Instrument ID:	19506-B		
Sublist:	chrom-RSK_CO2_19506B*sub1				
Method:	\\chromfs\Lancaster\ChromData\19506-B\20230427-82537.b\RSK_CO2_19506B.m				
Limit Group:	GCV - RSK175 CO2				
Last Update:	28-Apr-2023 07:19:09	Calib Date:	27-Apr-2023 10:37:00		
Integrator:	Genie				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\19506-B\20230427-82537.b\312023_04_27BB.0010.d				
Column 1 :	HP Plot (0.00 mm)		Det: 0FIDA		
Process Host:	CTX1628				

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Carbon dioxide	2.043	2.054	-0.011	297170647	H 89550	90322	

Reagents:

EPH_CO2MS_00004 Amount Added: 250.00 Units: uL

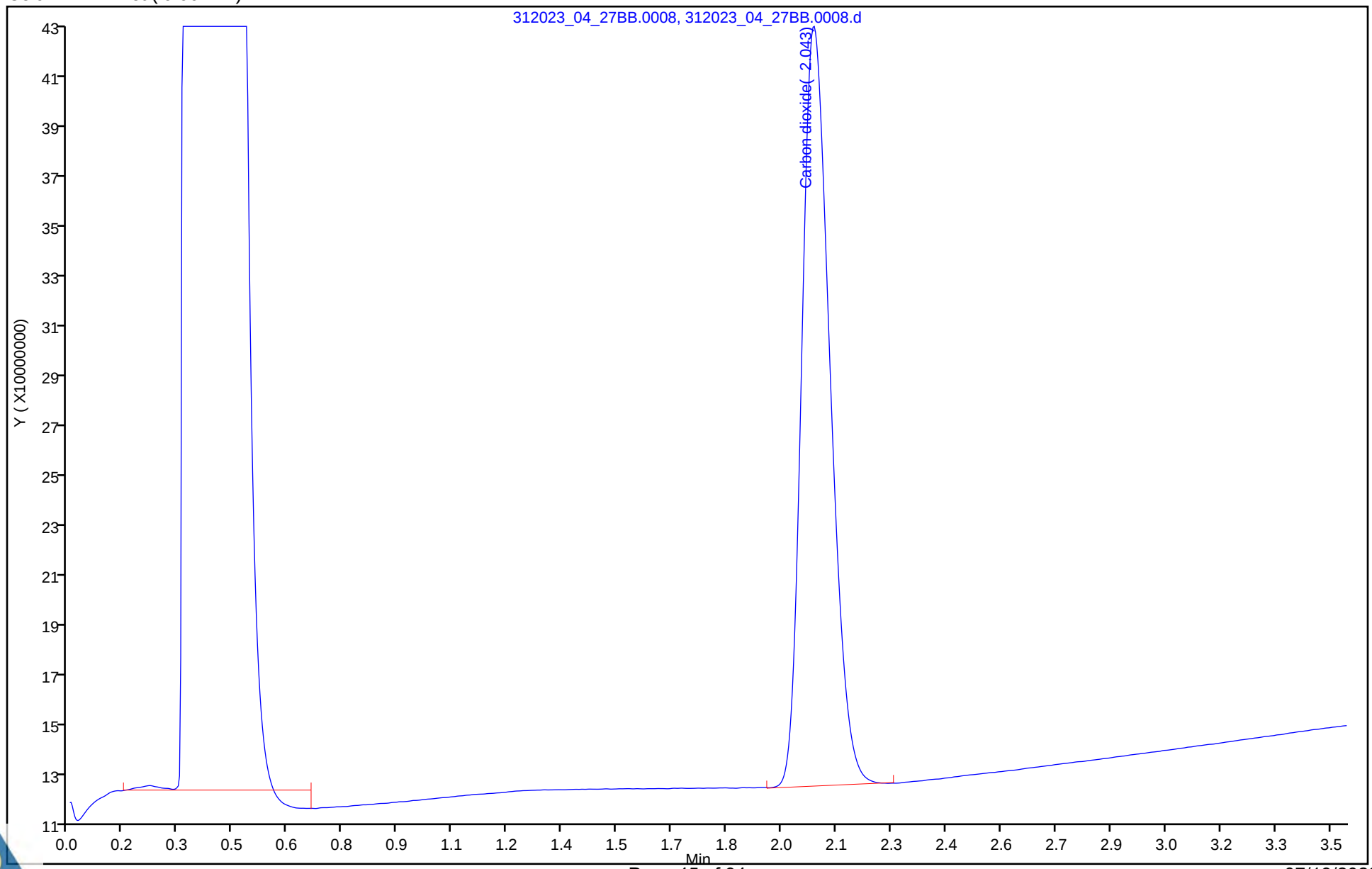
Report Date: 28-Apr-2023 07:19:09 Chrom Revision: 2.3 20-Apr-2023 08:27:48

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19506-B\20230427-82537.b\312023_04_27BB.0008.d

Injection Date:	27-Apr-2023 10:22:00	Instrument ID:	19506-B	Operator ID:	
Lims ID:	ic			Worklist Smp#:	8
Client ID:					
Purge Vol:	1.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	RSK_CO2_19506B	Limit Group:	GCV - RSK175 CO2		

Column: HP Plot (0.00 mm)



Report Date: 28-Apr-2023 07:19:10 Chrom Revision: 2.3 20-Apr-2023 08:27:48

Eurofins Lancaster Laboratories Environment Testing, LLC

Target Compound Quantitation Report

Data File:	\\chromfs\Lancaster\ChromData\19506-B\20230427-82537.b\312023_04_27BB.0009.d				
Lims ID:	ic				
Client ID:					
Sample Type:	IC	Calib Level:	5		
Inject. Date:	27-Apr-2023 10:30:00	ALS Bottle#:	0	Worklist Smp#:	9
Purge Vol:	1.000 mL	Dil. Factor:	1.0000		
Sample Info:					
Misc. Info.:	410-0082537-009				
Operator ID:		Instrument ID:	19506-B		
Sublist:	chrom-RSK_CO2_19506B*sub1				
Method:	\\chromfs\Lancaster\ChromData\19506-B\20230427-82537.b\RSK_CO2_19506B.m				
Limit Group:	GCV - RSK175 CO2				
Last Update:	28-Apr-2023 07:19:10	Calib Date:	27-Apr-2023 10:37:00		
Integrator:	Genie				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\19506-B\20230427-82537.b\312023_04_27BB.0010.d				
Column 1 :	HP Plot (0.00 mm)		Det: 0FIDA		
Process Host:	CTX1628				

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Carbon dioxide	2.024	2.054	-0.030	561047460	H 179100	170525	

Reagents:

EPH_CO2MS_00004 Amount Added: 500.00 Units: uL

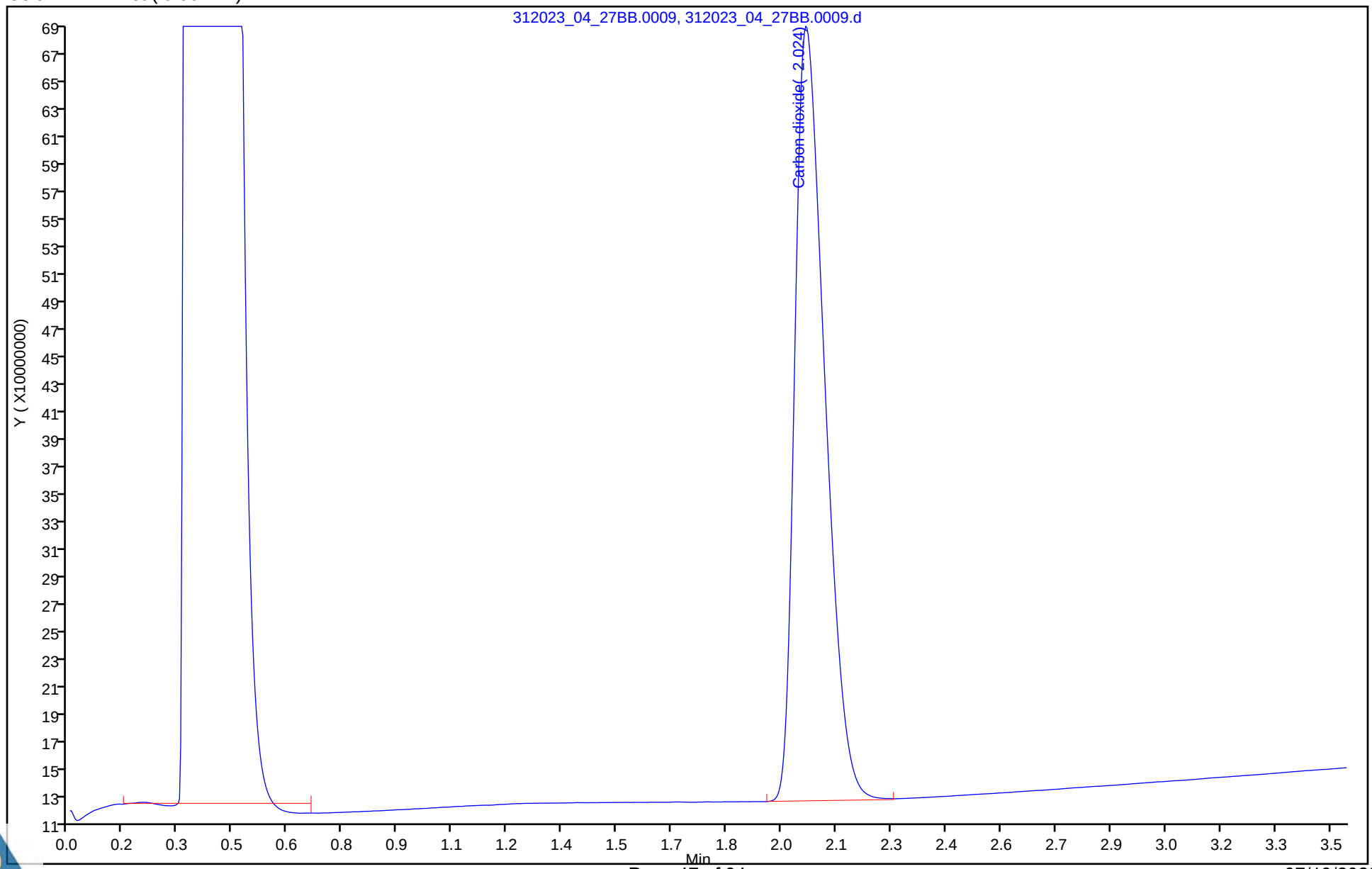
Report Date: 28-Apr-2023 07:19:10 Chrom Revision: 2.3 20-Apr-2023 08:27:48

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19506-B\20230427-82537.b\312023_04_27BB.0009.d

Injection Date:	27-Apr-2023 10:30:00	Instrument ID:	19506-B	Operator ID:	
Lims ID:	ic			Worklist Smp#:	9
Client ID:					
Purge Vol:	1.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	RSK_CO2_19506B	Limit Group:	GCV - RSK175 CO2		

Column: HP Plot (0.00 mm)



Report Date: 28-Apr-2023 07:19:12 Chrom Revision: 2.3 20-Apr-2023 08:27:48

Eurofins Lancaster Laboratories Environment Testing, LLC

Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19506-B\20230427-82537.b\312023_04_27BB.0010.d
Lims ID: ic
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 27-Apr-2023 10:37:00 ALS Bottle#: 0 Worklist Smp#: 10
Purge Vol: 1.000 mL Dil. Factor: 1.0000
Sample Info:
Misc. Info.: 410-0082537-010
Operator ID: Instrument ID: 19506-B
Sublist: chrom-RSK_CO2_19506B*sub1

Method: \\chromfs\Lancaster\ChromData\19506-B\20230427-82537.b\RSK_CO2_19506B.m
Limit Group: GCV - RSK175 CO2
Last Update: 28-Apr-2023 07:19:11 Calib Date: 27-Apr-2023 10:37:00
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19506-B\20230427-82537.b\312023_04_27BB.0010.d

Column 1 : HP Plot (0.00 mm) Det: 0FIDA
Process Host: CTX1628

First Level Reviewer: WN7O Date: 28-Apr-2023 07:17:52

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Carbon dioxide	1.983	2.054	-0.071	989211697H	358200	300661	Ma

QC Flag Legend

Processing Flags
H - Response Measured by Height
Review Flags
M - Manually Integrated
a - User Assigned ID

Reagents:

EPH_CO2MS_00004 Amount Added: 1000.00 Units: uL

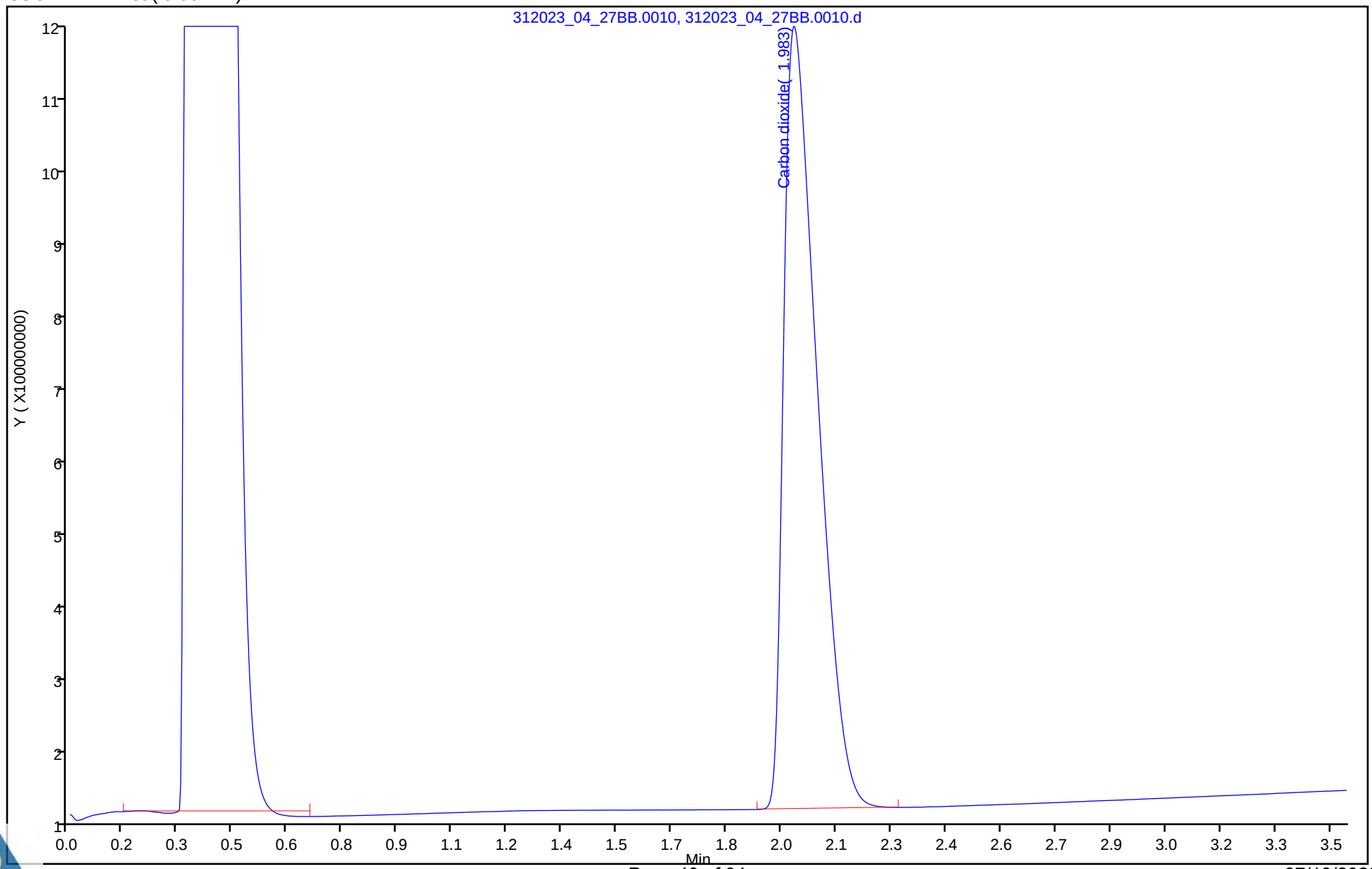
Report Date: 28-Apr-2023 07:19:12 Chrom Revision: 2.3 20-Apr-2023 08:27:48

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19506-B\20230427-82537.b\312023_04_27BB.0010.d

Injection Date:	27-Apr-2023 10:37:00	Instrument ID:	19506-B	Operator ID:	
Lims ID:	ic			Worklist Smp#:	10
Client ID:					
Purge Vol:	1.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	RSK_CO2_19506B	Limit Group:	GCV - RSK175 CO2		

Column: HP Plot (0.00 mm)



Report Date: 28-Apr-2023 07:19:12

Chrom Revision: 2.3 20-Apr-2023 08:27:48 Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

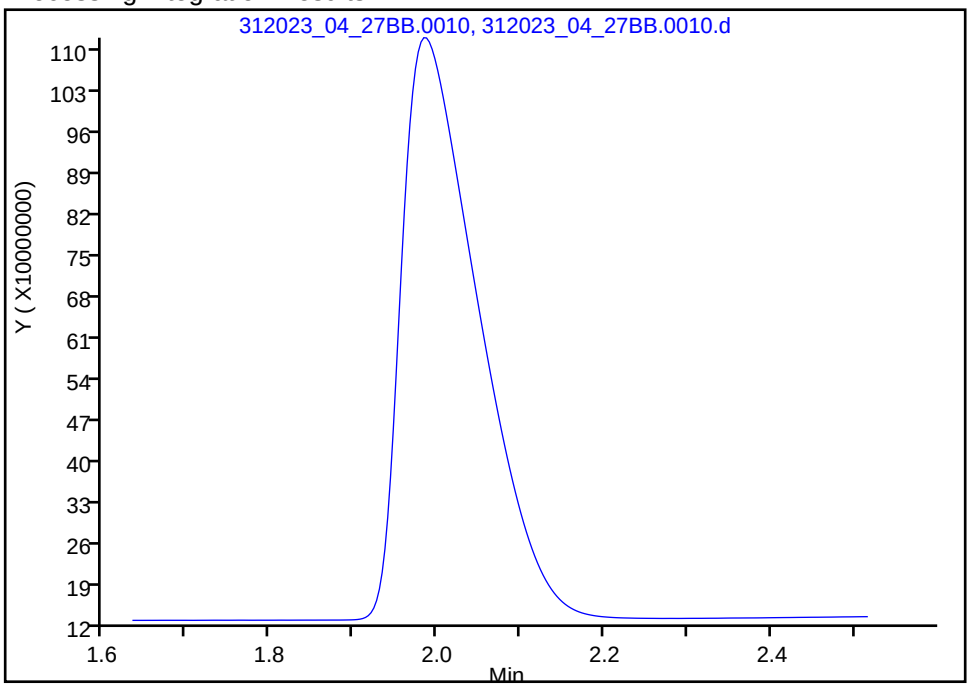
Data File:	\\chromfs\Lancaster\ChromData\19506-B\20230427-82537.b\312023_04_27BB.0010.d		
Injection Date:	27-Apr-2023 10:37:00	Instrument ID:	19506-B
Lims ID:	ic		
Client ID:			
Operator ID:		ALS Bottle#:	0 Worklist Smp#: 10
Purge Vol:	1.000 mL	Dil. Factor:	1.0000
Method:	RSK_CO2_19506B	Limit Group:	GCV - RSK175 CO2
Column:	HP Plot (0.00 mm)	Detector	0FIDA

1 Carbon dioxide, CAS: 124-38-9

Signal: 1

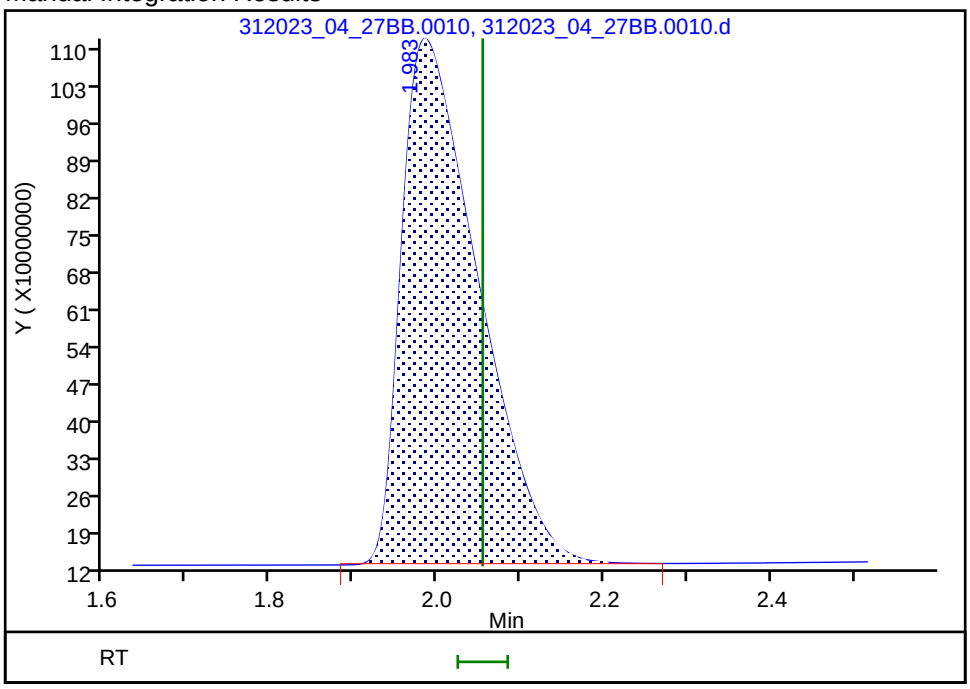
Not Detected
Expected RT: 2.05

Processing Integration Results



Manual Integration Results

RT: 1.98
Height: 989211697
Amount: 300661
Amount Units: ug/l



Reviewer: WN7O, 28-Apr-2023 07:17:41
Audit Action: Manually Integrated
Audit Reason: Baseline Smoothing

Calibration / Carbon dioxide

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	HEIGHT
RF Rounding:	0

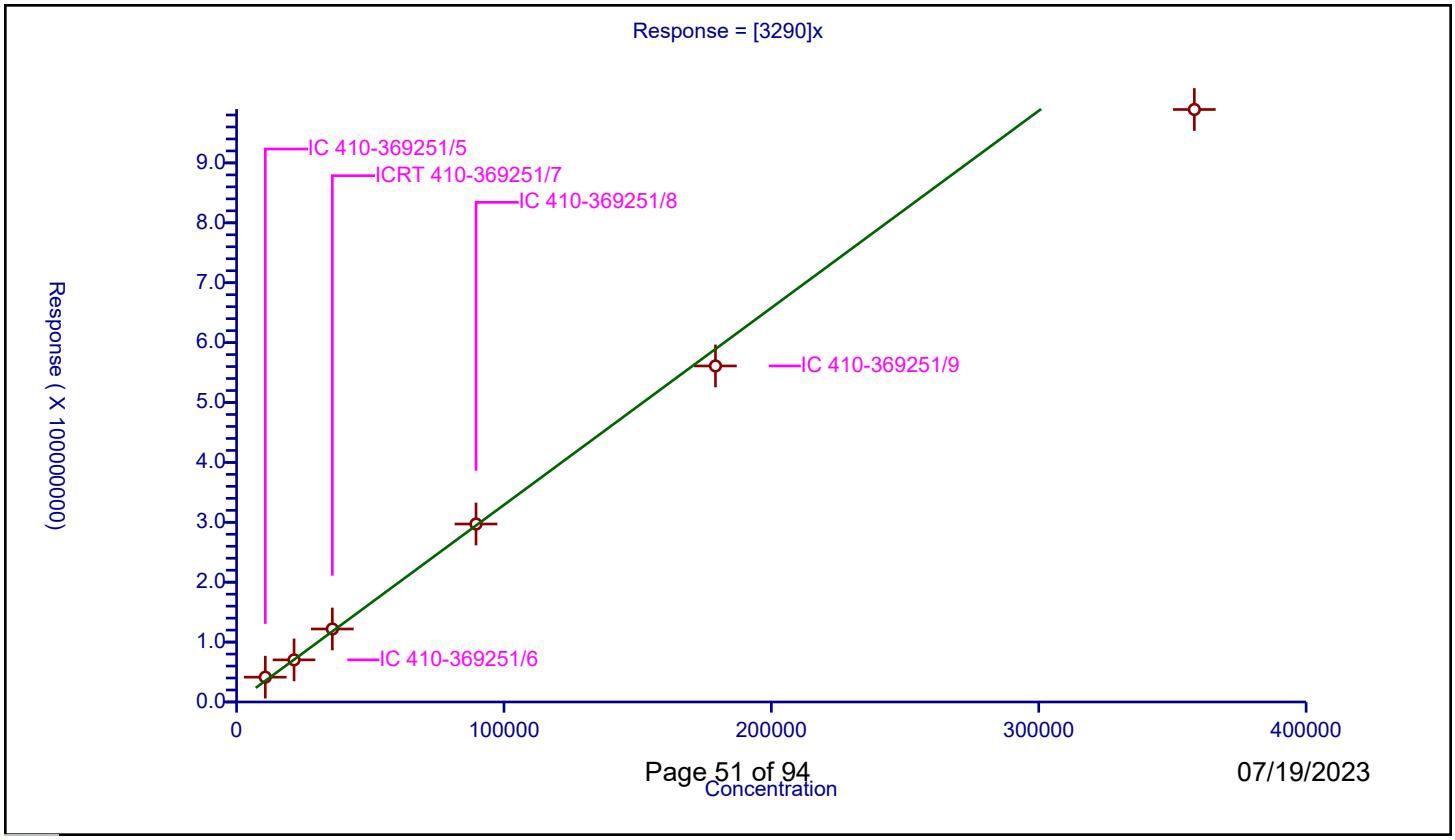
Curve Coefficients

Intercept:	0
Slope:	3290

Error Coefficients

Standard Error:	85700000
Relative Standard Error:	10.8
Correlation Coefficient:	0.995
Coefficient of Determination (Adjusted):	0.977

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 410-369251/5	10746.0	41411686.0			3853.683789	Y
2	IC 410-369251/6	21492.0	70308888.0			3271.398102	Y
3	ICRT 410-369251/7	35820.0	121893696.0			3402.950754	Y
4	IC 410-369251/8	89550.0	297170647.0			3318.48852	Y
5	IC 410-369251/9	179100.0	561047460.0			3132.5933	Y
6	IC 410-369251/10	358200.0	989211697.0			2761.618361	Y



FORM VII
GC VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-134453-1

SDG No.:

Lab Sample ID: ICV 410-369251/13 Calibration Date: 04/27/2023 11:01

Instrument ID: 19506-B Calib Start Date: 04/27/2023 09:59

GC Column: HP Plot ID: 0.53(mm) Calib End Date: 04/27/2023 10:37

Lab File ID: 312023_04_27BB.0013.d Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Carbon dioxide	Ave	3290	3122		33200	35000	-5.1	15.0

FORM VII
GC VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-134453-1

SDG No.:

Lab Sample ID: ICV 410-369251/13 Calibration Date: 04/27/2023 11:01

Instrument ID: 19506-B Calib Start Date: 04/27/2023 09:59

GC Column: HP Plot ID: 0.53(mm) Calib End Date: 04/27/2023 10:37

Lab File ID: 312023_04_27BB.0013.d Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Carbon dioxide	2.06	2.02	2.08

Report Date: 28-Apr-2023 08:51:00 Chrom Revision: 2.3 20-Apr-2023 08:27:48

Eurofins Lancaster Laboratories Environment Testing, LLC

Target Compound Quantitation Report

Data File:	\\chromfs\Lancaster\ChromData\19506-B\20230427-82537.b\312023_04_27BB.0013.d				
Lims ID:	icv				
Client ID:					
Sample Type:	ICV				
Inject. Date:	27-Apr-2023 11:01:00	ALS Bottle#:	0	Worklist Smp#:	13
Purge Vol:	1.000 mL	Dil. Factor:	1.0000		
Sample Info:					
Misc. Info.:	410-0082537-013				
Operator ID:		Instrument ID:	19506-B		
Sublist:					
Method:	\\chromfs\Lancaster\ChromData\19506-B\20230427-82537.b\RSK_CO2_19506B.m				
Limit Group:	GCV - RSK175 CO2				
Last Update:	28-Apr-2023 08:50:24	Calib Date:	27-Apr-2023 10:37:00		
Integrator:	Genie				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\19506-B\20230427-82537.b\312023_04_27BB.0010.d				
Column 1 :	HP Plot (0.00 mm)		Det: 0FIDA		
Process Host:	CTX1654				

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Carbon dioxide	2.057	2.054	0.003	109307674	H 35008	33223	

Reagents:

EPH_CO2ICV_00002 Amount Added: 320.00 Units: uL

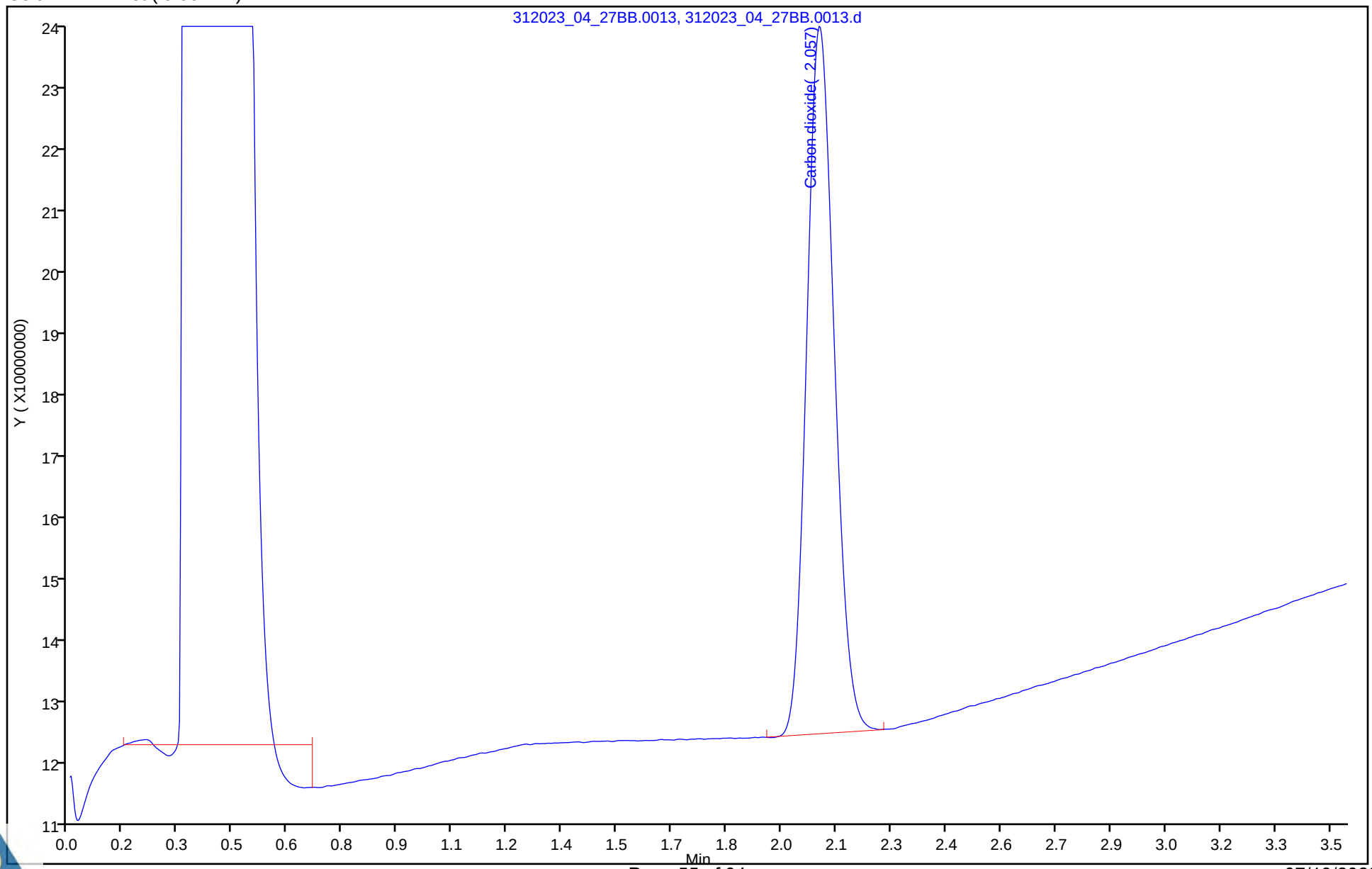
Report Date: 28-Apr-2023 08:51:00 Chrom Revision: 2.3 20-Apr-2023 08:27:48

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19506-B\20230427-82537.b\312023_04_27BB.0013.d

Injection Date:	27-Apr-2023 11:01:00	Instrument ID:	19506-B	Operator ID:	
Lims ID:	icv			Worklist Smp#:	13
Client ID:					
Purge Vol:	1.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	RSK_CO2_19506B	Limit Group:	GCV - RSK175 CO2		

Column: HP Plot (0.00 mm)



FORM VII
GC VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-134453-1

SDG No.:

Lab Sample ID: CCVRT 410-397918/2 Calibration Date: 07/18/2023 10:18

Instrument ID: 19506-B Calib Start Date: 04/27/2023 09:59

GC Column: HP Plot ID: 0.53(mm) Calib End Date: 04/27/2023 10:37

Lab File ID: 312023_07_18BB.0002.d Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Carbon dioxide	Ave	3290	3654		39800	35800	11.1	15.0

FORM VII
GC VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-134453-1

SDG No.:

Lab Sample ID: CCVRT 410-397918/2 Calibration Date: 07/18/2023 10:18

Instrument ID: 19506-B Calib Start Date: 04/27/2023 09:59

GC Column: HP Plot ID: 0.53(mm) Calib End Date: 04/27/2023 10:37

Lab File ID: 312023_07_18BB.0002.d Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Carbon dioxide	2.05	2.02	2.08

Report Date: 19-Jul-2023 03:23:28 Chrom Revision: 2.3 11-Jul-2023 11:49:10

Eurofins Lancaster Laboratories Environment Testing, LLC

Target Compound Quantitation Report

Data File:	\\chromfs\Lancaster\ChromData\19506-B\20230718-89205.b\312023_07_18BB.0002.d				
Lims ID:	ccvrt				
Client ID:					
Sample Type:	CCVRT				
Inject. Date:	18-Jul-2023 10:18:00	ALS Bottle#:	0	Worklist Smp#:	2
Purge Vol:	1.000 mL	Dil. Factor:	1.0000		
Sample Info:	ccvrt				
Misc. Info.:	410-0089205-002				
Operator ID:		Instrument ID:	19506-B		
Sublist:	chrom-RSK_CO2_19506B*sub1				
Method:	\\chromfs\Lancaster\ChromData\19506-B\20230718-89205.b\RSK_CO2_19506B.m				
Limit Group:	GCV - RSK175 CO2				
Last Update:	19-Jul-2023 03:23:28	Calib Date:	27-Apr-2023 10:37:00		
Integrator:	Genie				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\19506-B\20230427-82537.b\312023_04_27BB.0010.d				
Column 1 :	HP Plot (0.00 mm)		Det: 0FIDA		
Process Host:	CTX1624				

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Carbon dioxide	2.054	2.054	0.000	130875039H	35820	39778	

Reagents:

EPH_CO2MS_00006 Amount Added: 100.00 Units: uL

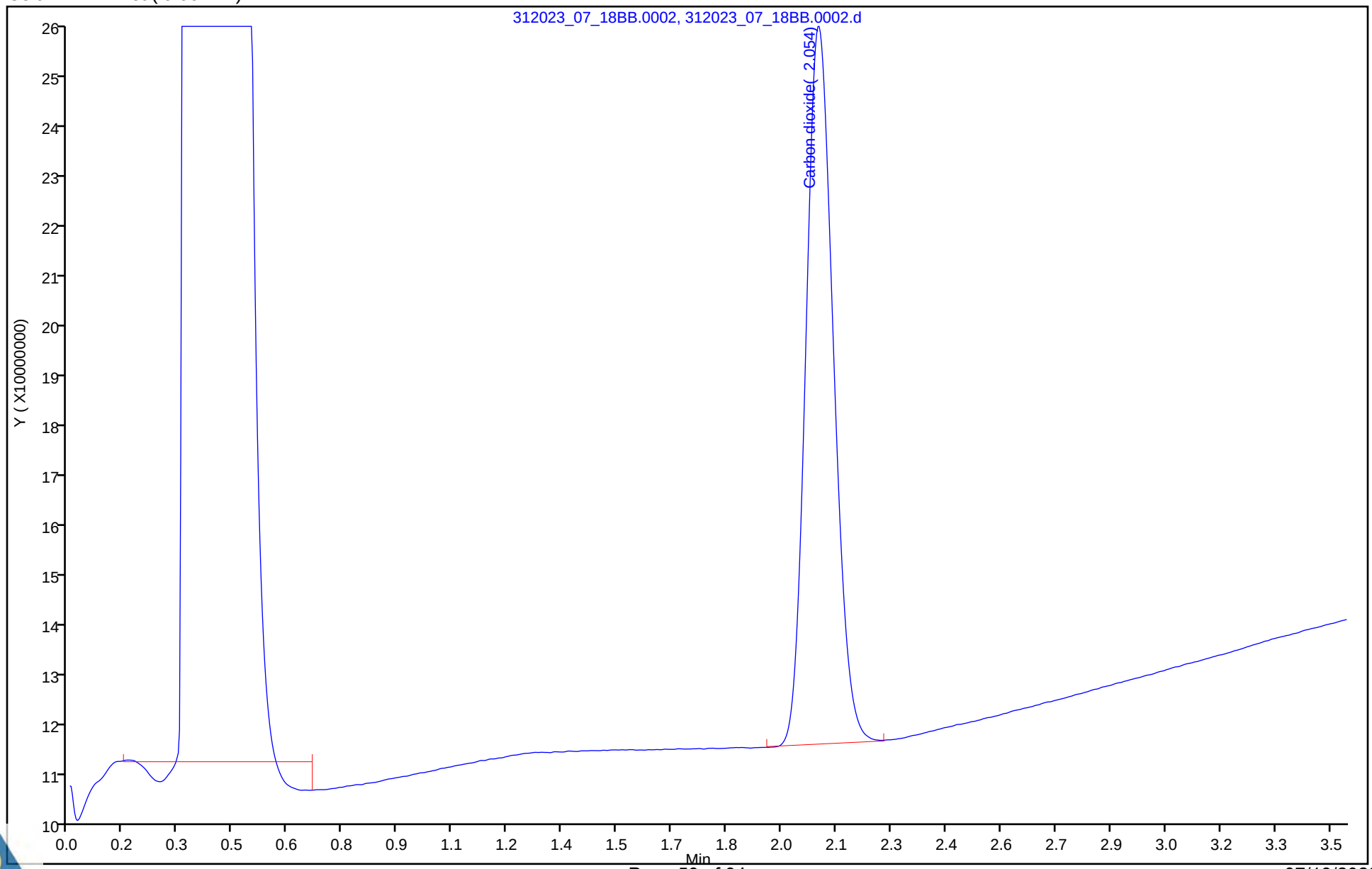
Report Date: 19-Jul-2023 03:23:28 Chrom Revision: 2.3 11-Jul-2023 11:49:10

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19506-B\20230718-89205.b\312023_07_18BB.0002.d

Injection Date:	18-Jul-2023 10:18:00	Instrument ID:	19506-B	Operator ID:	
Lims ID:	ccvrt			Worklist Smp#:	2
Client ID:					
Purge Vol:	1.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	RSK_CO2_19506B	Limit Group:	GCV - RSK175 CO2		

Column: HP Plot (0.00 mm)



FORM VII
GC VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-134453-1

SDG No.:

Lab Sample ID: CCV 410-397918/13 Calibration Date: 07/18/2023 14:37

Instrument ID: 19506-B Calib Start Date: 04/27/2023 09:59

GC Column: HP Plot ID: 0.53(mm) Calib End Date: 04/27/2023 10:37

Lab File ID: 312023_07_18BB.0013.d Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Carbon dioxide	Ave	3290	3195		34800	35800	-2.9	15.0

FORM VII
GC VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-134453-1

SDG No.:

Lab Sample ID: CCV 410-397918/13 Calibration Date: 07/18/2023 14:37

Instrument ID: 19506-B Calib Start Date: 04/27/2023 09:59

GC Column: HP Plot ID: 0.53(mm) Calib End Date: 04/27/2023 10:37

Lab File ID: 312023_07_18BB.0013.d Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Carbon dioxide	2.06	2.02	2.08

Report Date: 19-Jul-2023 03:23:32 Chrom Revision: 2.3 11-Jul-2023 11:49:10

Eurofins Lancaster Laboratories Environment Testing, LLC

Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19506-B\20230718-89205.b\312023_07_18BB.0013.d
Lims ID: ccv
Client ID:
Sample Type: CCV
Inject. Date: 18-Jul-2023 14:37:00 ALS Bottle#: 0 Worklist Smp#: 13
Purge Vol: 1.000 mL Dil. Factor: 1.0000
Sample Info:
Misc. Info.: 410-0089205-013
Operator ID: Instrument ID: 19506-B
Sublist: chrom-RSK_CO2_19506B*sub1

Method: \\chromfs\Lancaster\ChromData\19506-B\20230718-89205.b\RSK_CO2_19506B.m
Limit Group: GCV - RSK175 CO2
Last Update: 19-Jul-2023 03:23:32 Calib Date: 27-Apr-2023 10:37:00
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19506-B\20230427-82537.b\312023_04_27BB.0010.d

Column 1 : HP Plot (0.00 mm) Det: 0FIDA
Process Host: CTX1624

First Level Reviewer: LXF2 Date: 19-Jul-2023 03:18:11

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Carbon dioxide	2.056	2.054	0.002	114461234	H 35820	34789	

QC Flag Legend

Processing Flags

H - Response Measured by Height

Reagents:

EPH_CO2MS_00006 Amount Added: 100.00 Units: uL

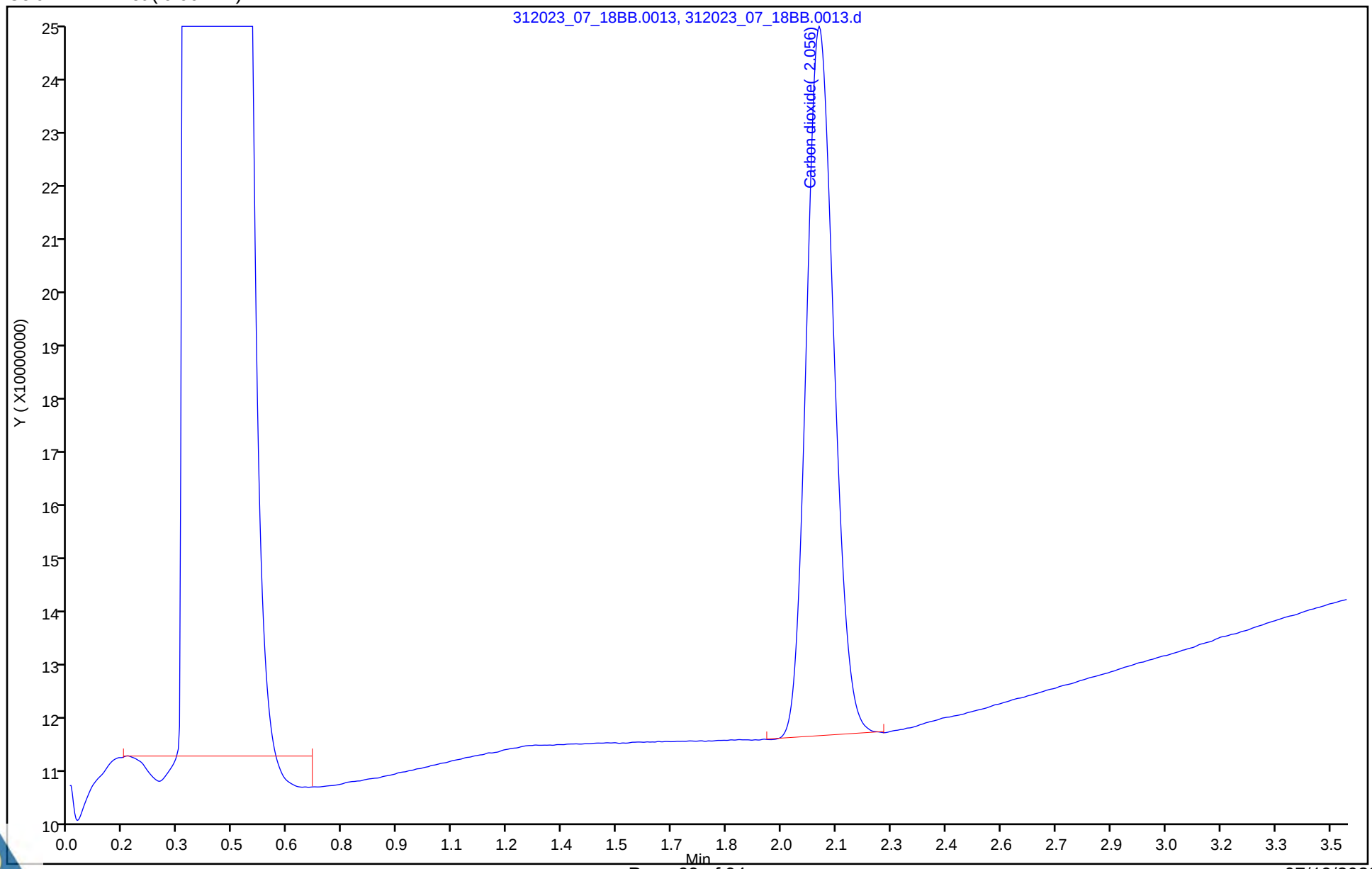
Report Date: 19-Jul-2023 03:23:32 Chrom Revision: 2.3 11-Jul-2023 11:49:10

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19506-B\20230718-89205.b\312023_07_18BB.0013.d

Injection Date:	18-Jul-2023 14:37:00	Instrument ID:	19506-B	Operator ID:	
Lims ID:	ccv			Worklist Smp#:	13
Client ID:					
Purge Vol:	1.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	RSK_CO2_19506B	Limit Group:	GCV - RSK175 CO2		

Column: HP Plot (0.00 mm)



FORM VII
GC VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-134453-1

SDG No.:

Lab Sample ID: CCV 410-397918/24 Calibration Date: 07/18/2023 16:03

Instrument ID: 19506-B Calib Start Date: 04/27/2023 09:59

GC Column: HP Plot ID: 0.53(mm) Calib End Date: 04/27/2023 10:37

Lab File ID: 312023_07_18BB.0024.d Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Carbon dioxide	Ave	3290	3151		34300	35800	-4.2	15.0

FORM VII
GC VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-134453-1

SDG No.:

Lab Sample ID: CCV 410-397918/24 Calibration Date: 07/18/2023 16:03

Instrument ID: 19506-B Calib Start Date: 04/27/2023 09:59

GC Column: HP Plot ID: 0.53(mm) Calib End Date: 04/27/2023 10:37

Lab File ID: 312023_07_18BB.0024.d Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Carbon dioxide	2.06	2.02	2.08

Report Date: 19-Jul-2023 03:23:36 Chrom Revision: 2.3 11-Jul-2023 11:49:10

Eurofins Lancaster Laboratories Environment Testing, LLC

Target Compound Quantitation Report

Data File:	\\chromfs\Lancaster\ChromData\19506-B\20230718-89205.b\312023_07_18BB.0024.d				
Lims ID:	ccv				
Client ID:					
Sample Type:	CCV				
Inject. Date:	18-Jul-2023 16:03:00	ALS Bottle#:	0	Worklist Smp#:	24
Purge Vol:	1.000 mL	Dil. Factor:	1.0000		
Sample Info:					
Misc. Info.:	410-0089205-024				
Operator ID:		Instrument ID:	19506-B		
Sublist:	chrom-RSK_CO2_19506B*sub1				
Method:	\\chromfs\Lancaster\ChromData\19506-B\20230718-89205.b\RSK_CO2_19506B.m				
Limit Group:	GCV - RSK175 CO2				
Last Update:	19-Jul-2023 03:23:36	Calib Date:	27-Apr-2023 10:37:00		
Integrator:	Genie				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\19506-B\20230427-82537.b\312023_04_27BB.0010.d				
Column 1 :	HP Plot (0.00 mm)		Det: 0FIDA		
Process Host:	CTX1624				

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Carbon dioxide	2.055	2.054	0.001	112851350	H 35820	34300	

Reagents:

EPH_CO2MS_00006 Amount Added: 100.00 Units: uL

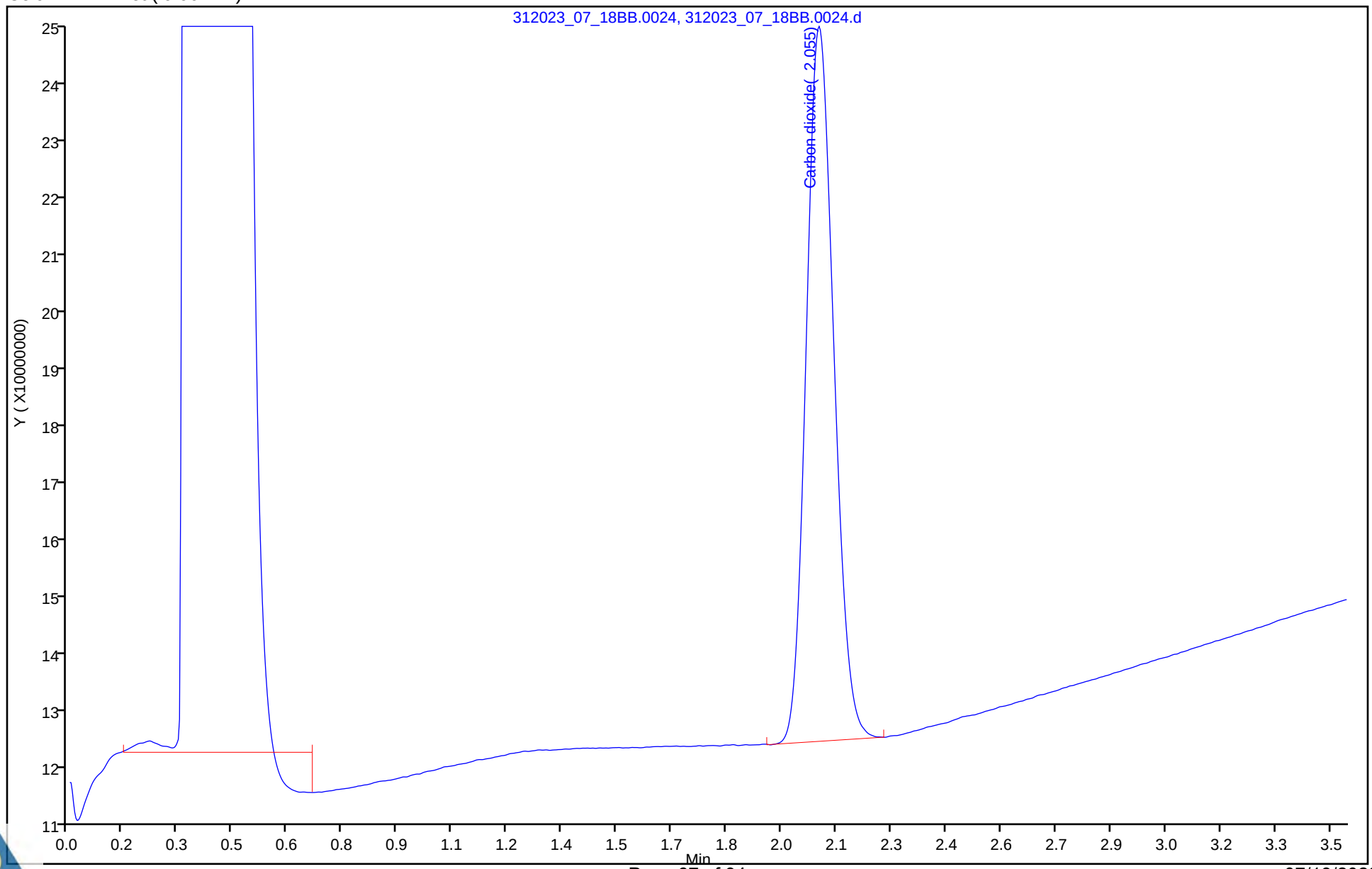
Report Date: 19-Jul-2023 03:23:36 Chrom Revision: 2.3 11-Jul-2023 11:49:10

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19506-B\20230718-89205.b\312023_07_18BB.0024.d

Injection Date:	18-Jul-2023 16:03:00	Instrument ID:	19506-B	Operator ID:	
Lims ID:	ccv			Worklist Smp#:	24
Client ID:					
Purge Vol:	1.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	RSK_CO2_19506B	Limit Group:	GCV - RSK175 CO2		

Column: HP Plot (0.00 mm)



FORM VII
GC VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-134453-1

SDG No.:

Lab Sample ID: CCV 410-397918/35 Calibration Date: 07/18/2023 17:35

Instrument ID: 19506-B Calib Start Date: 04/27/2023 09:59

GC Column: HP Plot ID: 0.53(mm) Calib End Date: 04/27/2023 10:37

Lab File ID: 312023_07_18BB.0035.d Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Carbon dioxide	Ave	3290	2961		32200	35800	-10.0	15.0

FORM VII
GC VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-134453-1

SDG No.:

Lab Sample ID: CCV 410-397918/35 Calibration Date: 07/18/2023 17:35

Instrument ID: 19506-B Calib Start Date: 04/27/2023 09:59

GC Column: HP Plot ID: 0.53(mm) Calib End Date: 04/27/2023 10:37

Lab File ID: 312023_07_18BB.0035.d Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Carbon dioxide	2.06	2.02	2.08

Report Date: 19-Jul-2023 03:23:40 Chrom Revision: 2.3 11-Jul-2023 11:49:10

Eurofins Lancaster Laboratories Environment Testing, LLC

Target Compound Quantitation Report

Data File:	\\chromfs\Lancaster\ChromData\19506-B\20230718-89205.b\312023_07_18BB.0035.d				
Lims ID:	ccv				
Client ID:					
Sample Type:	CCV				
Inject. Date:	18-Jul-2023 17:35:00	ALS Bottle#:	0	Worklist Smp#:	35
Purge Vol:	1.000 mL	Dil. Factor:	1.0000		
Sample Info:					
Misc. Info.:	410-0089205-035				
Operator ID:		Instrument ID:	19506-B		
Sublist:	chrom-RSK_CO2_19506B*sub1				
Method:	\\chromfs\Lancaster\ChromData\19506-B\20230718-89205.b\RSK_CO2_19506B.m				
Limit Group:	GCV - RSK175 CO2				
Last Update:	19-Jul-2023 03:23:39	Calib Date:	27-Apr-2023 10:37:00		
Integrator:	Genie				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\19506-B\20230427-82537.b\312023_04_27BB.0010.d				
Column 1 :	HP Plot (0.00 mm)		Det: 0FIDA		
Process Host:	CTX1624				

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Carbon dioxide	2.056	2.054	0.002	106059852H	35820	32236	

Reagents:

EPH_CO2MS_00006 Amount Added: 100.00 Units: uL

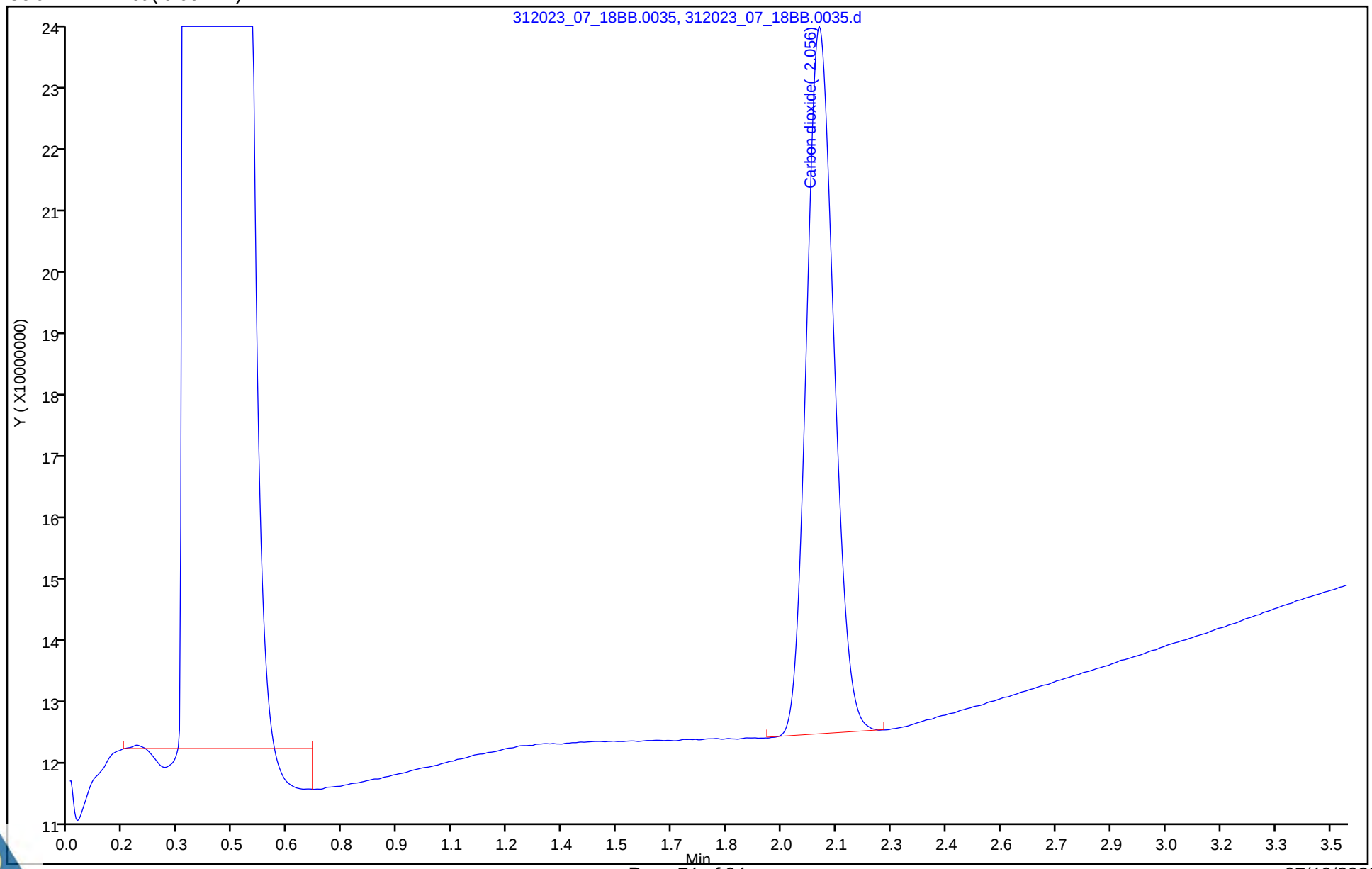
Report Date: 19-Jul-2023 03:23:40 Chrom Revision: 2.3 11-Jul-2023 11:49:10

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19506-B\20230718-89205.b\312023_07_18BB.0035.d

Injection Date:	18-Jul-2023 17:35:00	Instrument ID:	19506-B	Operator ID:	
Lims ID:	ccv			Worklist Smp#:	35
Client ID:					
Purge Vol:	1.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	RSK_CO2_19506B	Limit Group:	GCV - RSK175 CO2		

Column: HP Plot (0.00 mm)



FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-134453-1

SDG No.:

Client Sample ID:
Lab Sample ID: MB 410-397965/1-A

Matrix: Water
Lab File ID: 312023_07_18BB.0003.d

Analysis Method: RSK-175
Date Collected:

Sample wt/vol: 5(mL)
Date Analyzed: 07/18/2023 10:47

Soil Aliquot Vol:
Dilution Factor: 1

Soil Extract Vol.:
GC Column: HP Plot ID: 0.53(mm)

Purge Volume:
Heated Purge: (Y/N) N pH:

% Moisture: % Solids:
Level: (low/med) Low

Analysis Batch No.: 397918
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	DL
124-38-9	Carbon dioxide	2600	U M	12000	2600

Report Date: 19-Jul-2023 03:23:29 Chrom Revision: 2.3 11-Jul-2023 11:49:10

Eurofins Lancaster Laboratories Environment Testing, LLC

Target Compound Quantitation Report

Data File:	\\chromfs\Lancaster\ChromData\19506-B\20230718-89205.b\312023_07_18BB.0003.d				
Lims ID:	MB 410-397965/1-A				
Client ID:					
Sample Type:	MB				
Inject. Date:	18-Jul-2023 10:47:00	ALS Bottle#:	0	Worklist Smp#:	3
Purge Vol:	1.000 mL	Dil. Factor:	1.0000		
Sample Info:					
Misc. Info.:	410-0089205-003				
Operator ID:		Instrument ID:	19506-B		
Method:	\\chromfs\Lancaster\ChromData\19506-B\20230718-89205.b\RSK_CO2_19506B.m				
Limit Group:	GCV - RSK175 CO2				
Last Update:	19-Jul-2023 03:23:28	Calib Date:	27-Apr-2023 10:37:00		
Integrator:	Genie				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\19506-B\20230427-82537.b\312023_04_27BB.0010.d				
Column 1 :	HP Plot (0.00 mm)		Det: 0FIDA		
Process Host:	CTX1624				
First Level Reviewer: LXF2		Date:	18-Jul-2023 12:58:56		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Carbon dioxide	2.060	2.054	0.006	2677809H		813.9	M

QC Flag Legend

Processing Flags

H - Response Measured by Height

Review Flags

M - Manually Integrated

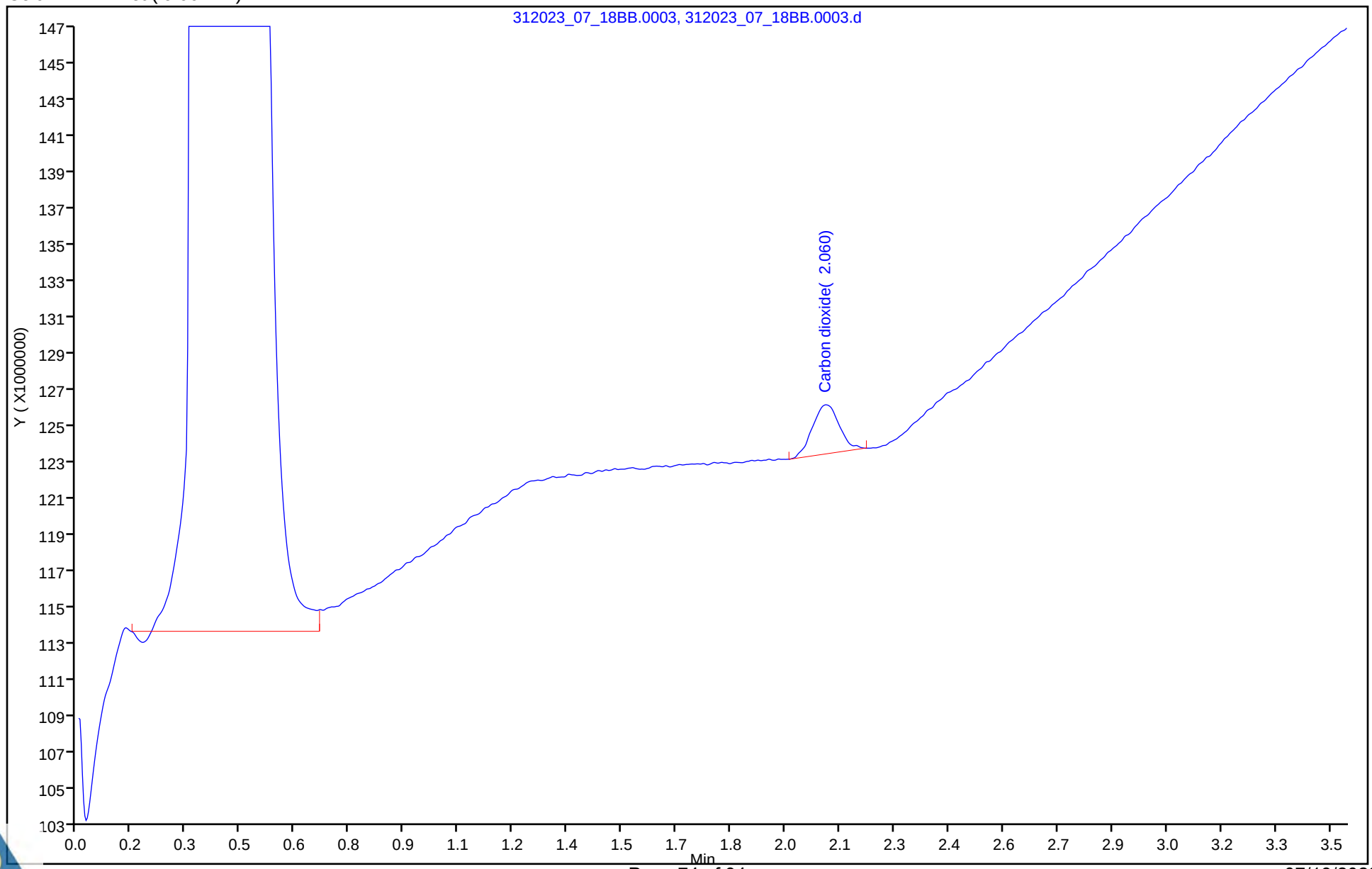
Report Date: 19-Jul-2023 03:23:29 Chrom Revision: 2.3 11-Jul-2023 11:49:10

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19506-B\20230718-89205.b\312023_07_18BB.0003.d

Injection Date:	18-Jul-2023 10:47:00	Instrument ID:	19506-B	Operator ID:	
Lims ID:	MB 410-397965/1-A			Worklist Smp#:	3
Client ID:					
Purge Vol:	1.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	RSK_CO2_19506B	Limit Group:	GCV - RSK175 CO2		

Column: HP Plot (0.00 mm)



Report Date: 19-Jul-2023 03:23:29 Chrom Revision: 2.3 11-Jul-2023 11:49:10 Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

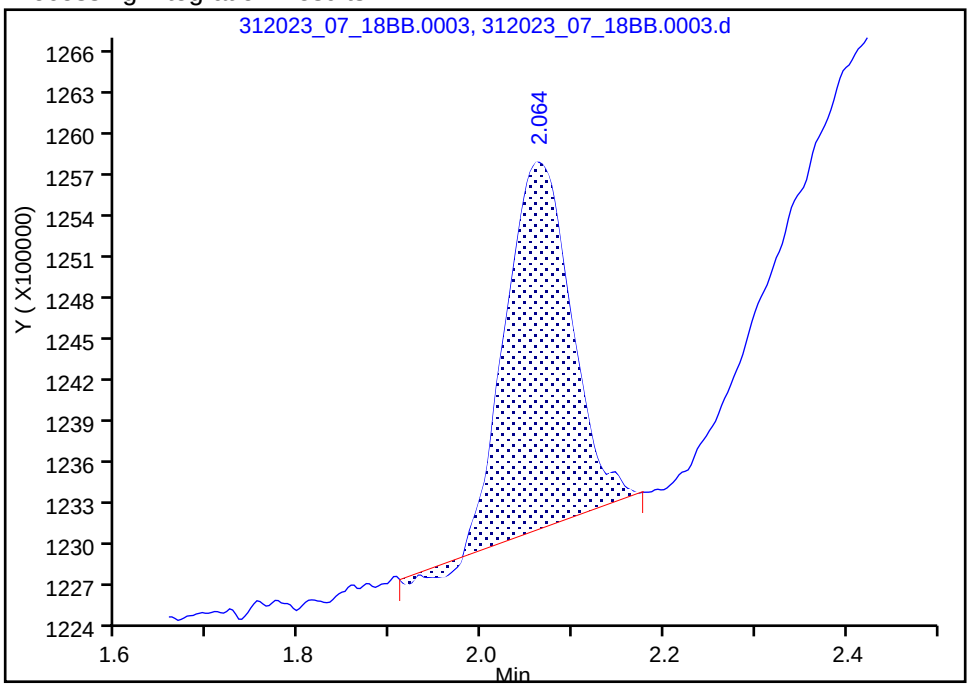
Data File:	\\chromfs\Lancaster\ChromData\19506-B\20230718-89205.b\312023_07_18BB.0003.d		
Injection Date:	18-Jul-2023 10:47:00	Instrument ID:	19506-B
Lims ID:	MB 410-397965/1-A		
Client ID:			
Operator ID:		ALS Bottle#:	0 Worklist Smp#: 3
Purge Vol:	1.000 mL	Dil. Factor:	1.0000
Method:	RSK_CO2_19506B	Limit Group:	GCV - RSK175 CO2
Column:	HP Plot (0.00 mm)	Detector	0FIDA

1 Carbon dioxide, CAS: 124-38-9

Signal: 1

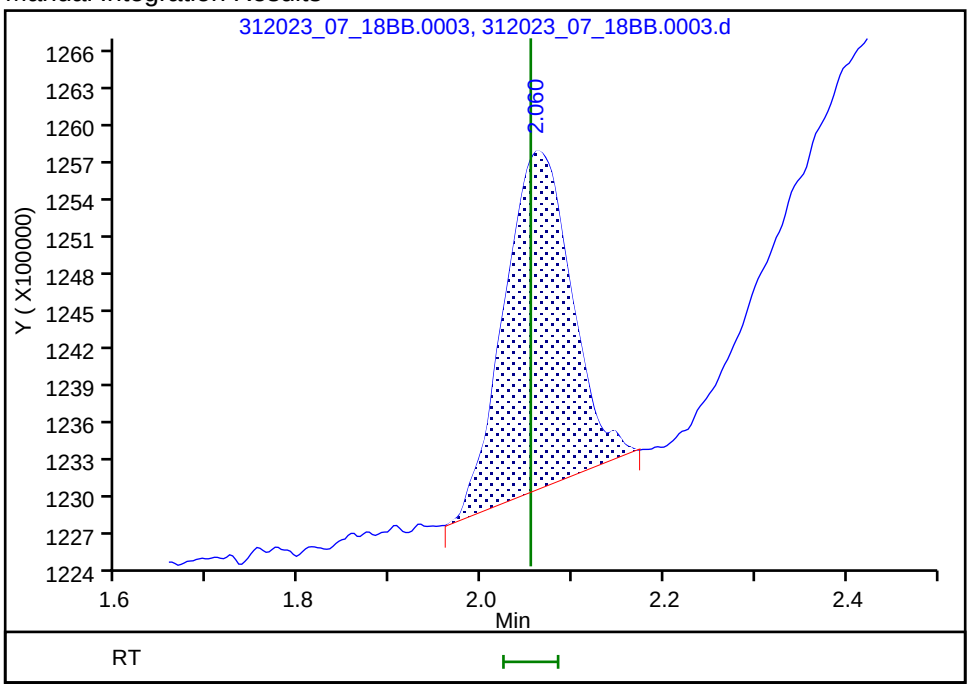
Processing Integration Results

RT: 2.06
Height: 2607686
Amount: 792.5803
Amount Units: ug/l



Manual Integration Results

RT: 2.06
Height: 2677809
Amount: 813.8935
Amount Units: ug/l



Reviewer: LXF2, 19-Jul-2023 03:20:14 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Peak not integrated

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-134453-1

SDG No.:

Client Sample ID:
Lab Sample ID: LCS 410-397965/2-A

Matrix: Water
Lab File ID: 312023_07_18BB.0004.d

Analysis Method: RSK-175
Date Collected:

Sample wt/vol: 5(mL)
Date Analyzed: 07/18/2023 10:54

Soil Aliquot Vol:
Dilution Factor: 1

Soil Extract Vol.:
GC Column: HP Plot ID: 0.53(mm)

Purge Volume:
Heated Purge: (Y/N) N pH:

% Moisture: % Solids:
Level: (low/med) Low

Analysis Batch No.: 397918
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	DL
124-38-9	Carbon dioxide	36600		12000	2600

Report Date: 19-Jul-2023 03:23:29 Chrom Revision: 2.3 11-Jul-2023 11:49:10

Eurofins Lancaster Laboratories Environment Testing, LLC

Target Compound Quantitation Report

Data File:	\\chromfs\Lancaster\ChromData\19506-B\20230718-89205.b\312023_07_18BB.0004.d				
Lims ID:	LCS 410-397965/2-A				
Client ID:					
Sample Type:	LCS				
Inject. Date:	18-Jul-2023 10:54:00	ALS Bottle#:	0	Worklist Smp#:	4
Purge Vol:	1.000 mL	Dil. Factor:	1.0000		
Sample Info:					
Misc. Info.:	410-0089205-004				
Operator ID:		Instrument ID:	19506-B		
Method:	\\chromfs\Lancaster\ChromData\19506-B\20230718-89205.b\RSK_CO2_19506B.m				
Limit Group:	GCV - RSK175 CO2				
Last Update:	19-Jul-2023 03:23:28	Calib Date:	27-Apr-2023 10:37:00		
Integrator:	Genie				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\19506-B\20230427-82537.b\312023_04_27BB.0010.d				
Column 1 :	HP Plot (0.00 mm)		Det: 0FIDA		
Process Host:	CTX1624				

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Carbon dioxide	2.055	2.054	0.001	120431293H	35820	36604	

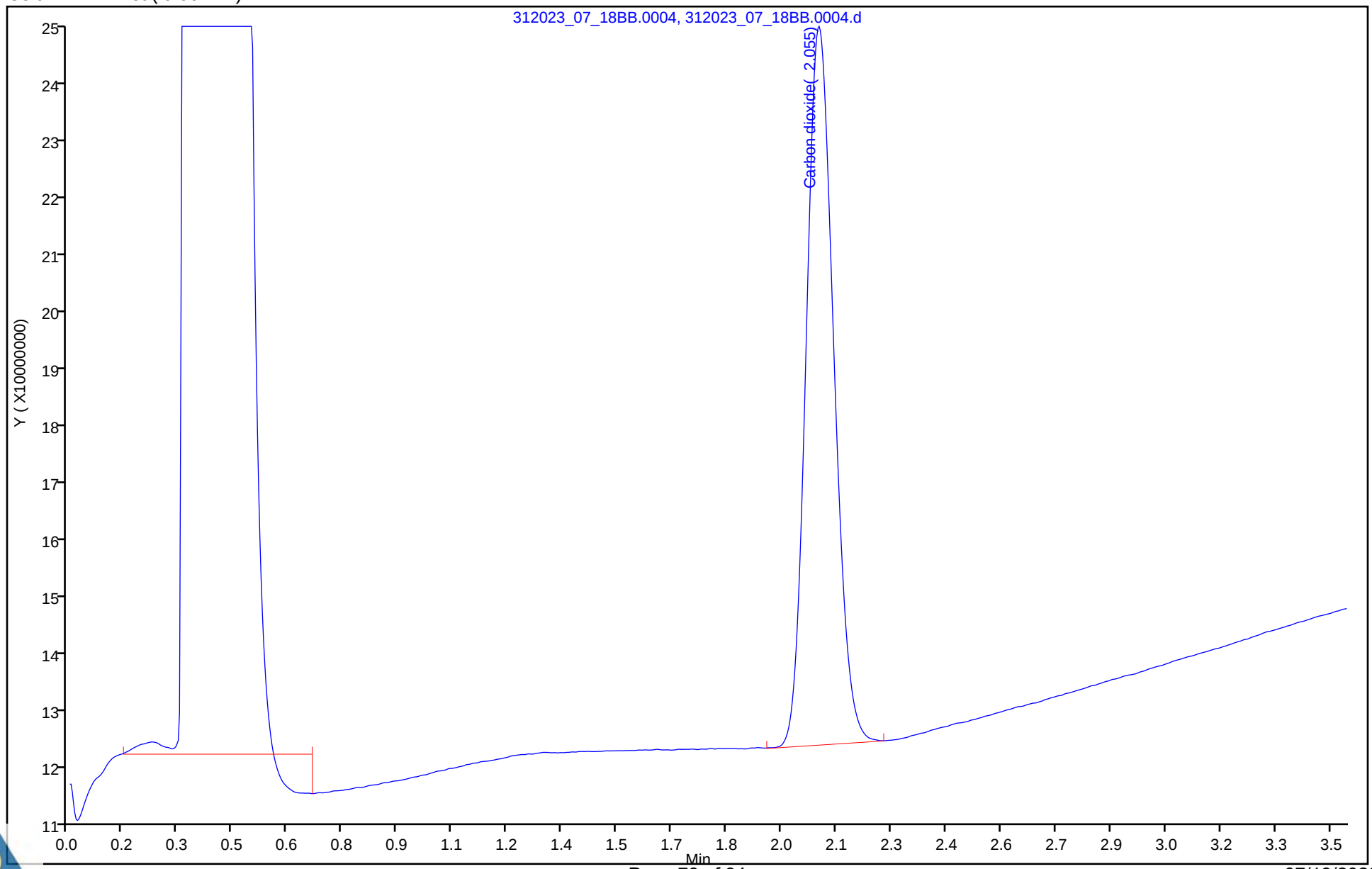
Report Date: 19-Jul-2023 03:23:29 Chrom Revision: 2.3 11-Jul-2023 11:49:10

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19506-B\20230718-89205.b\312023_07_18BB.0004.d

Injection Date:	18-Jul-2023 10:54:00	Instrument ID:	19506-B	Operator ID:	
Lims ID:	LCS 410-397965/2-A			Worklist Smp#:	4
Client ID:					
Purge Vol:	1.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	RSK_CO2_19506B	Limit Group:	GCV - RSK175 CO2		

Column: HP Plot (0.00 mm)



FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-134453-1

SDG No.:

Client Sample ID: 16WW16-230711 MS Lab Sample ID: 410-134453-3 MS

Matrix: Water Lab File ID: 312023_07_18BB.0027.d

Analysis Method: RSK-175 Date Collected: 07/11/2023 08:45

Sample wt/vol: 5(mL) Date Analyzed: 07/18/2023 16:27

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: HP Plot ID: 0.53(mm)

Purge Volume: Heated Purge: (Y/N) N pH: 7.0

% Moisture: % Solids: Level: (low/med) Low

Analysis Batch No.: 397918 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	DL
124-38-9	Carbon dioxide	135000	J1	12000	2600

Report Date: 19-Jul-2023 03:23:37 Chrom Revision: 2.3 11-Jul-2023 11:49:10

Eurofins Lancaster Laboratories Environment Testing, LLC

Target Compound Quantitation Report

Data File:	\\chromfs\Lancaster\ChromData\19506-B\20230718-89205.b\312023_07_18BB.0027.d				
Lims ID:	410-134453-A-3-B MS				
Client ID:	16WW16-230711				
Sample Type:	MS				
Inject. Date:	18-Jul-2023 16:27:00	ALS Bottle#:	0	Worklist Smp#:	27
Purge Vol:	1.000 mL	Dil. Factor:	1.0000		
Sample Info:					
Misc. Info.:	410-0089205-027				
Operator ID:		Instrument ID:	19506-B		
Method:	\\chromfs\Lancaster\ChromData\19506-B\20230718-89205.b\RSK_CO2_19506B.m				
Limit Group:	GCV - RSK175 CO2				
Last Update:	19-Jul-2023 03:23:36	Calib Date:	27-Apr-2023 10:37:00		
Integrator:	Genie				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\19506-B\20230427-82537.b\312023_04_27BB.0010.d				
Column 1 :	HP Plot (0.00 mm)		Det: 0FIDA		
Process Host:	CTX1624				

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Carbon dioxide	2.030	2.054	-0.024	442791125	H 35820	134582	

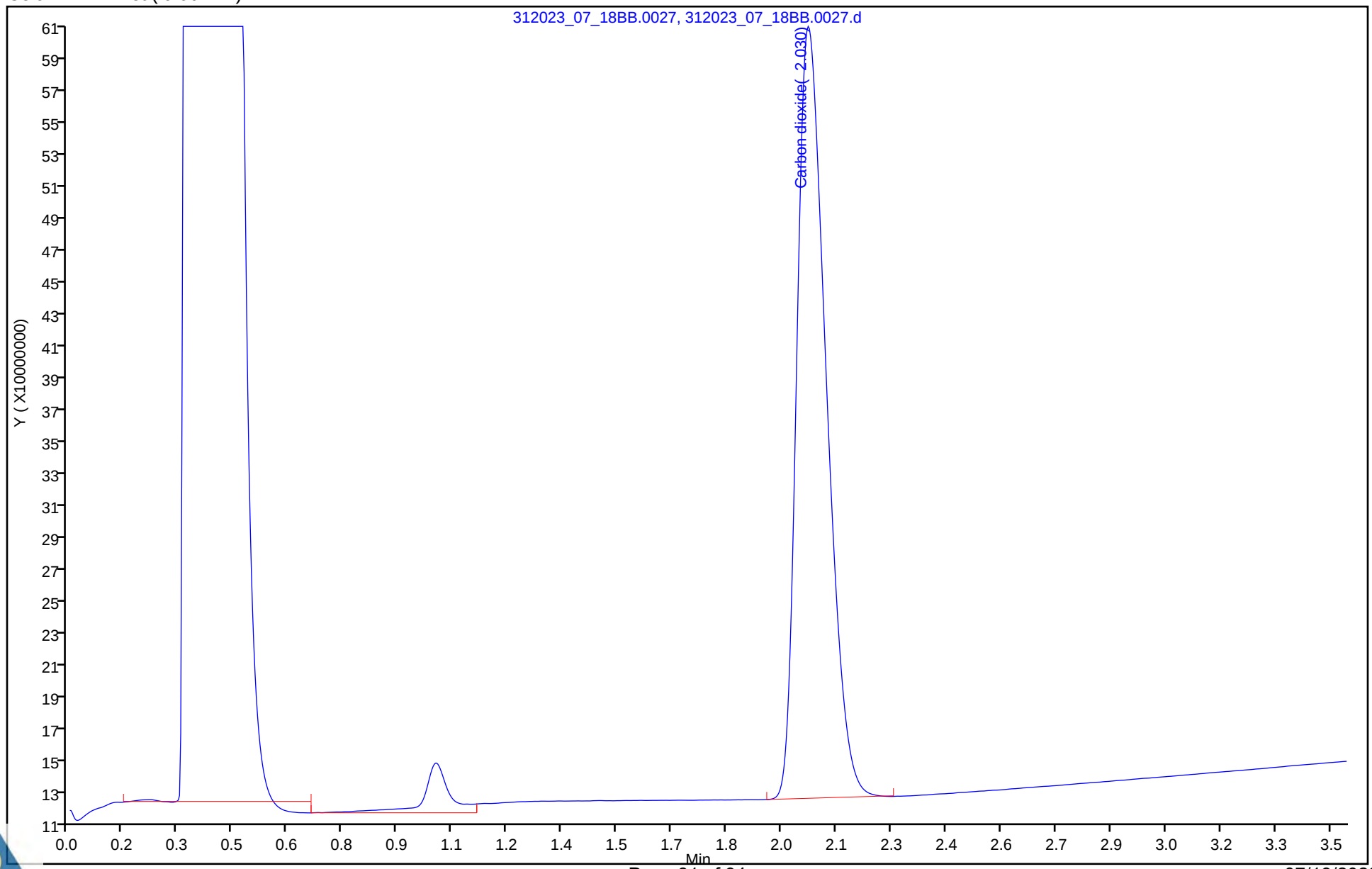
Report Date: 19-Jul-2023 03:23:37 Chrom Revision: 2.3 11-Jul-2023 11:49:10

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19506-B\20230718-89205.b\312023_07_18BB.0027.d

Injection Date:	18-Jul-2023 16:27:00	Instrument ID:	19506-B	Operator ID:	
Lims ID:	410-134453-A-3-B MS			Worklist Smp#:	27
Client ID:	16WW16-230711				
Purge Vol:	1.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	RSK_CO2_19506B	Limit Group:	GCV - RSK175 CO2		

Column: HP Plot (0.00 mm)



FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-134453-1

SDG No.:

Client Sample ID: 16WW16-230711 MSD Lab Sample ID: 410-134453-3 MSD

Matrix: Water Lab File ID: 312023_07_18BB.0028.d

Analysis Method: RSK-175 Date Collected: 07/11/2023 08:45

Sample wt/vol: 5(mL) Date Analyzed: 07/18/2023 16:34

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: HP Plot ID: 0.53(mm)

Purge Volume: Heated Purge: (Y/N) N pH: 7.0

% Moisture: % Solids: Level: (low/med) Low

Analysis Batch No.: 397918 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	DL
124-38-9	Carbon dioxide	138000	J1	12000	2600

Report Date: 19-Jul-2023 03:23:37 Chrom Revision: 2.3 11-Jul-2023 11:49:10

Eurofins Lancaster Laboratories Environment Testing, LLC

Target Compound Quantitation Report

Data File:	\\chromfs\Lancaster\ChromData\19506-B\20230718-89205.b\312023_07_18BB.0028.d				
Lims ID:	410-134453-A-3-C MSD				
Client ID:	16WW16-230711				
Sample Type:	MSD				
Inject. Date:	18-Jul-2023 16:34:00	ALS Bottle#:	0	Worklist Smp#:	28
Purge Vol:	1.000 mL	Dil. Factor:	1.0000		
Sample Info:					
Misc. Info.:	410-0089205-028				
Operator ID:		Instrument ID:	19506-B		
Method:	\\chromfs\Lancaster\ChromData\19506-B\20230718-89205.b\RSK_CO2_19506B.m				
Limit Group:	GCV - RSK175 CO2				
Last Update:	19-Jul-2023 03:23:36	Calib Date:	27-Apr-2023 10:37:00		
Integrator:	Genie				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\19506-B\20230427-82537.b\312023_04_27BB.0010.d				
Column 1 :	HP Plot (0.00 mm)		Det: 0FIDA		
Process Host:	CTX1624				

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Carbon dioxide	2.030	2.054	-0.024	454304769	H 35820	138081	

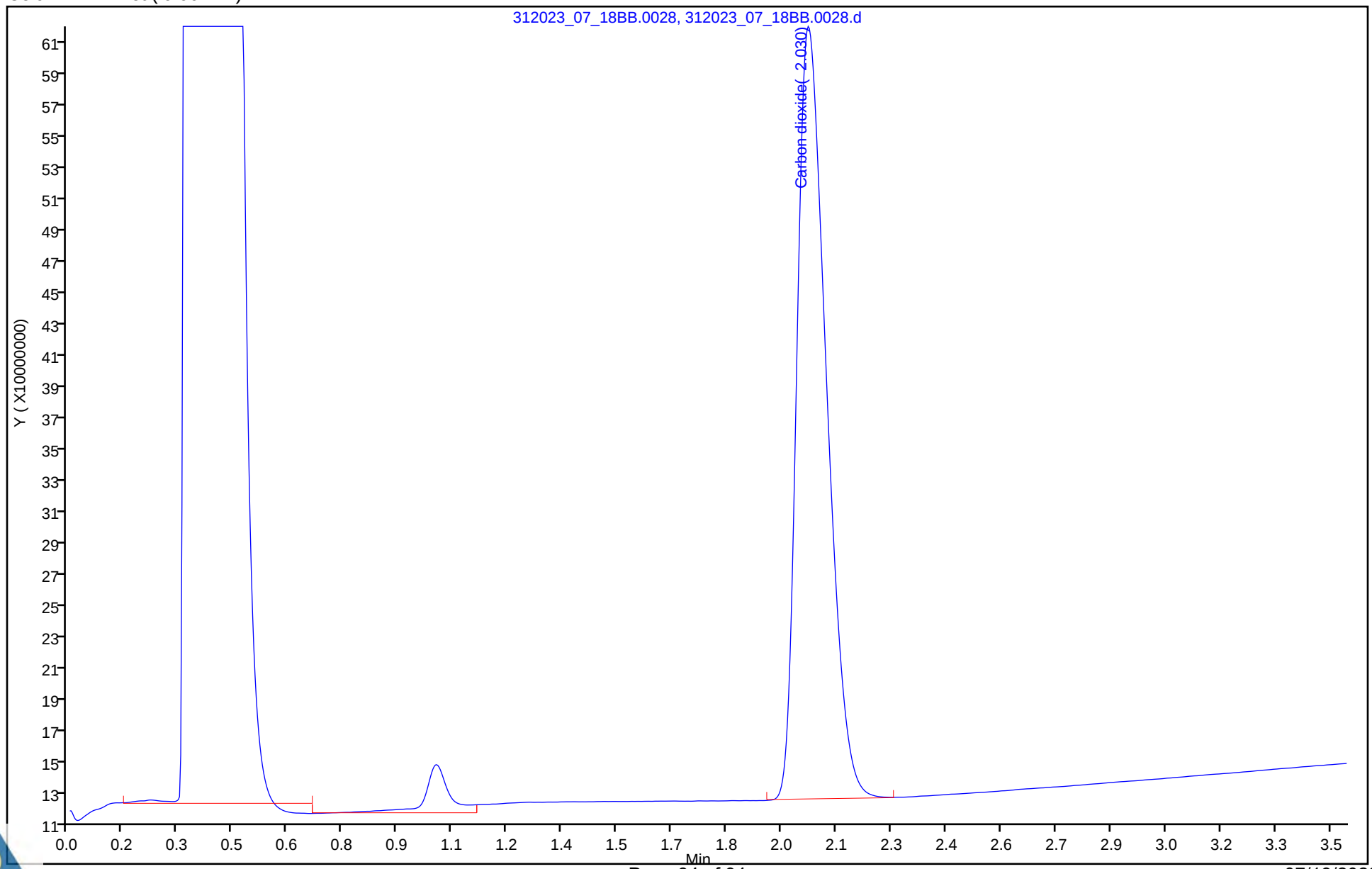
Report Date: 19-Jul-2023 03:23:37 Chrom Revision: 2.3 11-Jul-2023 11:49:10

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19506-B\20230718-89205.b\312023_07_18BB.0028.d

Injection Date:	18-Jul-2023 16:34:00	Instrument ID:	19506-B	Operator ID:	
Lims ID:	410-134453-A-3-C MSD			Worklist Smp#:	28
Client ID:	16WW16-230711				
Purge Vol:	1.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	RSK_CO2_19506B	Limit Group:	GCV - RSK175 CO2		

Column: HP Plot (0.00 mm)



GC VOA ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-134453-1

SDG No.:

Instrument ID: 19506-B Start Date: 04/27/2023 09:16

Analysis Batch Number: 369251 End Date: 04/27/2023 17:34

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
PIBLK 410-369251/3		04/27/2023 09:16	1		HP Plot 0.53(mm)
IC 410-369251/5		04/27/2023 09:59	1	312023_04_27BB.0005.d	HP Plot 0.53(mm)
IC 410-369251/6		04/27/2023 10:06	1	312023_04_27BB.0006.d	HP Plot 0.53(mm)
ICRT 410-369251/7		04/27/2023 10:14	1	312023_04_27BB.0007.d	HP Plot 0.53(mm)
IC 410-369251/8		04/27/2023 10:22	1	312023_04_27BB.0008.d	HP Plot 0.53(mm)
IC 410-369251/9		04/27/2023 10:30	1	312023_04_27BB.0009.d	HP Plot 0.53(mm)
IC 410-369251/10		04/27/2023 10:37	1	312023_04_27BB.0010.d	HP Plot 0.53(mm)
PIBLK 410-369251/11		04/27/2023 10:45	1		HP Plot 0.53(mm)
ICVL 410-369251/12		04/27/2023 10:53	1		HP Plot 0.53(mm)
ICV 410-369251/13		04/27/2023 11:01	1	312023_04_27BB.0013.d	HP Plot 0.53(mm)
ZZZZZ		04/27/2023 11:45	1		HP Plot 0.53(mm)
ZZZZZ		04/27/2023 11:52	1		HP Plot 0.53(mm)
ZZZZZ		04/27/2023 12:01	1		HP Plot 0.53(mm)
ZZZZZ		04/27/2023 12:08	1		HP Plot 0.53(mm)
ZZZZZ		04/27/2023 12:16	1		HP Plot 0.53(mm)
ZZZZZ		04/27/2023 12:24	1		HP Plot 0.53(mm)
CCV 410-369251/20		04/27/2023 12:31	1		HP Plot 0.53(mm)
ZZZZZ		04/27/2023 13:03	1		HP Plot 0.53(mm)
ZZZZZ		04/27/2023 13:10	1		HP Plot 0.53(mm)
ZZZZZ		04/27/2023 13:18	1		HP Plot 0.53(mm)
ZZZZZ		04/27/2023 13:26	1		HP Plot 0.53(mm)
ZZZZZ		04/27/2023 13:33	1		HP Plot 0.53(mm)
ZZZZZ		04/27/2023 13:41	1		HP Plot 0.53(mm)
ZZZZZ		04/27/2023 13:49	1		HP Plot 0.53(mm)
ZZZZZ		04/27/2023 13:57	1		HP Plot 0.53(mm)
ZZZZZ		04/27/2023 14:04	1		HP Plot 0.53(mm)
ZZZZZ		04/27/2023 14:12	1		HP Plot 0.53(mm)
CCV 410-369251/31		04/27/2023 14:20	1		HP Plot 0.53(mm)
ZZZZZ		04/27/2023 14:38	1		HP Plot 0.53(mm)
ZZZZZ		04/27/2023 14:50	1		HP Plot 0.53(mm)
ZZZZZ		04/27/2023 14:58	1		HP Plot 0.53(mm)
ZZZZZ		04/27/2023 15:06	1		HP Plot 0.53(mm)
ZZZZZ		04/27/2023 15:15	1		HP Plot 0.53(mm)
ZZZZZ		04/27/2023 15:23	1		HP Plot 0.53(mm)
ZZZZZ		04/27/2023 15:31	1		HP Plot 0.53(mm)
ZZZZZ		04/27/2023 15:39	1		HP Plot 0.53(mm)
ZZZZZ		04/27/2023 15:47	1		HP Plot 0.53(mm)
ZZZZZ		04/27/2023 15:56	1		HP Plot 0.53(mm)
CCV 410-369251/42		04/27/2023 16:04	1		HP Plot 0.53(mm)
ZZZZZ		04/27/2023 16:12	1		HP Plot 0.53(mm)
ZZZZZ		04/27/2023 16:20	1		HP Plot 0.53(mm)
ZZZZZ		04/27/2023 16:28	1		HP Plot 0.53(mm)

GC VOA ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-134453-1

SDG No.:

Instrument ID: 19506-B Start Date: 04/27/2023 09:16

Analysis Batch Number: 369251 End Date: 04/27/2023 17:34

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		04/27/2023 16:37	1		HP Plot 0.53(mm)
ZZZZZ		04/27/2023 16:45	1		HP Plot 0.53(mm)
ZZZZZ		04/27/2023 16:53	1		HP Plot 0.53(mm)
ZZZZZ		04/27/2023 17:01	1		HP Plot 0.53(mm)
ZZZZZ		04/27/2023 17:09	1		HP Plot 0.53(mm)
ZZZZZ		04/27/2023 17:18	1		HP Plot 0.53(mm)
ZZZZZ		04/27/2023 17:26	1		HP Plot 0.53(mm)
CCV 410-369251/53		04/27/2023 17:34	1		HP Plot 0.53(mm)

GC VOA ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-134453-1

SDG No.:

Instrument ID: 19506-B Start Date: 07/18/2023 10:18

Analysis Batch Number: 397918 End Date: 07/18/2023 19:38

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCVRT 410-397918/2		07/18/2023 10:18	1	312023_07_18BB.0002.d	HP Plot 0.53(mm)
MB 410-397965/1-A		07/18/2023 10:47	1	312023_07_18BB.0003.d	HP Plot 0.53(mm)
LCS 410-397965/2-A		07/18/2023 10:54	1	312023_07_18BB.0004.d	HP Plot 0.53(mm)
ZZZZZ		07/18/2023 11:02	1		HP Plot 0.53(mm)
ZZZZZ		07/18/2023 11:10	1		HP Plot 0.53(mm)
ZZZZZ		07/18/2023 11:18	1		HP Plot 0.53(mm)
ZZZZZ		07/18/2023 11:26	1		HP Plot 0.53(mm)
ZZZZZ		07/18/2023 11:33	1		HP Plot 0.53(mm)
ZZZZZ		07/18/2023 11:41	1		HP Plot 0.53(mm)
ZZZZZ		07/18/2023 14:21	1		HP Plot 0.53(mm)
ZZZZZ		07/18/2023 14:29	1		HP Plot 0.53(mm)
CCV 410-397918/13		07/18/2023 14:37	1	312023_07_18BB.0013.d	HP Plot 0.53(mm)
ZZZZZ		07/18/2023 14:45	1		HP Plot 0.53(mm)
ZZZZZ		07/18/2023 14:52	1		HP Plot 0.53(mm)
ZZZZZ		07/18/2023 15:00	1		HP Plot 0.53(mm)
ZZZZZ		07/18/2023 15:08	1		HP Plot 0.53(mm)
ZZZZZ		07/18/2023 15:16	1		HP Plot 0.53(mm)
ZZZZZ		07/18/2023 15:24	1		HP Plot 0.53(mm)
ZZZZZ		07/18/2023 15:32	1		HP Plot 0.53(mm)
ZZZZZ		07/18/2023 15:39	1		HP Plot 0.53(mm)
ZZZZZ		07/18/2023 15:47	1		HP Plot 0.53(mm)
410-134453-1	16WW58-230711	07/18/2023 15:55	1	312023_07_18BB.0023.d	HP Plot 0.53(mm)
CCV 410-397918/24		07/18/2023 16:03	1	312023_07_18BB.0024.d	HP Plot 0.53(mm)
410-134453-2	16WW57-230711	07/18/2023 16:11	1	312023_07_18BB.0025.d	HP Plot 0.53(mm)
410-134453-3	16WW16-230711	07/18/2023 16:19	1	312023_07_18BB.0026.d	HP Plot 0.53(mm)
410-134453-3 MS	16WW16-230711 MS	07/18/2023 16:27	1	312023_07_18BB.0027.d	HP Plot 0.53(mm)
410-134453-3 MSD	16WW16-230711 MSD	07/18/2023 16:34	1	312023_07_18BB.0028.d	HP Plot 0.53(mm)
ZZZZZ		07/18/2023 16:42	1		HP Plot 0.53(mm)
ZZZZZ		07/18/2023 16:50	1		HP Plot 0.53(mm)
ZZZZZ		07/18/2023 16:58	1		HP Plot 0.53(mm)
ZZZZZ		07/18/2023 17:06	1		HP Plot 0.53(mm)
ZZZZZ		07/18/2023 17:19	1		HP Plot 0.53(mm)
ZZZZZ		07/18/2023 17:27	1		HP Plot 0.53(mm)
CCV 410-397918/35		07/18/2023 17:35	1	312023_07_18BB.0035.d	HP Plot 0.53(mm)
ZZZZZ		07/18/2023 17:43	1		HP Plot 0.53(mm)
ZZZZZ		07/18/2023 17:51	1		HP Plot 0.53(mm)
ZZZZZ		07/18/2023 18:00	1		HP Plot 0.53(mm)
ZZZZZ		07/18/2023 18:08	1		HP Plot 0.53(mm)
ZZZZZ		07/18/2023 18:16	1		HP Plot 0.53(mm)
ZZZZZ		07/18/2023 18:24	1		HP Plot 0.53(mm)

GC VOA ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-134453-1

SDG No.:

Instrument ID: 19506-B Start Date: 07/18/2023 10:18

Analysis Batch Number: 397918 End Date: 07/18/2023 19:38

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		07/18/2023 18:32	1		HP Plot 0.53(mm)
ZZZZZ		07/18/2023 18:41	1		HP Plot 0.53(mm)
ZZZZZ		07/18/2023 18:49	1		HP Plot 0.53(mm)
ZZZZZ		07/18/2023 18:57	1		HP Plot 0.53(mm)
CCV 410-397918/46		07/18/2023 19:05	1		HP Plot 0.53(mm)
ZZZZZ		07/18/2023 19:13	1		HP Plot 0.53(mm)
ZZZZZ		07/18/2023 19:22	1		HP Plot 0.53(mm)
ZZZZZ		07/18/2023 19:30	1		HP Plot 0.53(mm)
CCV 410-397918/50		07/18/2023 19:38	1		HP Plot 0.53(mm)

GC VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-134453-1

SDG No.:

Batch Number: 369251 Batch Start Date: 04/27/23 09:16 Batch Analyst: Kennedy, Johanna C

Batch Method: RSK-175 Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	EPH_CO2ICV 00002	EPH_CO2MS 00004		
IC 410-369251/5		RSK-175		5 mL	5 mL		30 uL		
IC 410-369251/6		RSK-175		5 mL	5 mL		60 uL		
ICRT 410-369251/7		RSK-175		5 mL	5 mL		100 uL		
IC 410-369251/8		RSK-175		5 mL	5 mL		250 uL		
IC 410-369251/9		RSK-175		5 mL	5 mL		500 uL		
IC 410-369251/10		RSK-175		5 mL	5 mL		1000 uL		
ICV 410-369251/13		RSK-175		5 mL	5 mL	320 uL			

Batch Notes	

Basis	Basis Description

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-134453-1

SDG No.:

Batch Number: 397965 Batch Start Date: 07/18/23 10:42 Batch Analyst: Omorogbe, Malachi

Batch Method: RSK-175 Batch End Date: 07/18/23 11:22

Lab Sample ID	Client Sample ID	Method Chain	Basis	Initial pH	InitialAmount	FinalAmount	Headspace	EPH_CO2MS 00006	AnalysisComment
MB 410-397965/1		RSK-175, RSK-175			5 mL	5 mL			
LCS 410-397965/2		RSK-175, RSK-175			5 mL	5 mL		0.1 mL	
410-134453-A-1	16WW58-230711	RSK-175, RSK-175	T	6 SU	5 mL	5 mL	No		ph 6
410-134453-A-2	16WW57-230711	RSK-175, RSK-175	T	6 SU	5 mL	5 mL	No		ph 6
410-134453-A-3	16WW16-230711	RSK-175, RSK-175	T	7 SU	5 mL	5 mL	No		
410-134453-A-3 MS	16WW16-230711	RSK-175, RSK-175	T	7 SU	5 mL	5 mL	No	0.1 mL	
410-134453-A-3 MSD	16WW16-230711	RSK-175, RSK-175	T	7 SU	5 mL	5 mL	No	0.1 mL	

Batch Notes	
Pipette/Syringe/Dispenser ID	7105
pH Indicator ID	10BDH3021

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Shipping and Receiving Documents

10450 Stancliff Rd, Ste 210
Houston, TX 77099
T: +1 281 530 5656
F: +1 281 530 5887
www.alsglobal.com

410-134453 Chain of Custody

Subcontract Chain of Custody

SAMPLING STATE: Dept of Defense **COC ID:** 22344

SUBCONTRACT TO:

Eurofins Lancaster Laboratories Envt Testing
2425 New Holland Pike
Lancaster, PA 17601

Phone: +1 717 656 2300

SHORT HOLDING TIME

CUSTOMER INFORMATION:

Company:	ALS Houston
Contact:	James Guin
Address:	10450 Stancliff Rd, Ste 210
Phone:	+1 281 530 5656
Email:	James.Guin@alsglobal.com
Alternate Contact:	Jumoke M. Lawal
Email:	jumoke.lawal@alsglobal.com

INVOICE INFORMATION:

Company:	ALS Houston
Contact:	Accounts Payable
Address:	10450 Stancliff Rd, Ste 210
Phone:	+1 281 530 5656
Reference:	HS23070546
TSR:	Ron Martino

	LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	COLLECT DATE
	ANALYSIS REQUESTED			DUE DATE
1.	**HS23070546-01**	**16WW58-230711**	**Groundwater**	**11 Jul 2023 07:05**
	RSK-CO2; DoD Level II & IV, Equ_APTIM_GISKey			26 Jul 2023
2.	**HS23070546-02**	**16WW57-230711**	**Groundwater**	**11 Jul 2023 07:50**
	RSK-CO2; DoD Level II & IV, Equ_APTIM_GISKey			26 Jul 2023
3.	**HS23070546-03**	**16WW16-230711**	**Groundwater**	**11 Jul 2023 08:45**
	RSK-CO2; DoD Level II & IV, Equ_APTIM_GISKey			26 Jul 2023

Comments: Please analyze for the analysis listed above.
Send report to the emails shown above.
HS23070546-03 = ms/msd

QC Level: DOD IV (DoD Data Package)

Relinquished By: _____ Date/Time: 7/12/23 1800

Received By: Debra A Byam Date/Time: 7-13-23 09:48

Cooler ID(s): _____ Temperature(s): _____

Raw 1.0 - 08/19

10450 Stancliff Rd, Ste 210
Houston, TX 77099
T: +1 281 530 5656
F: +1 281 530 5887
www.alsglobal.com

Purchase Order

PO: HS23070546

VENDOR:

Eurofins Lancaster Laboratories Envt Testing
2425 New Holland Pike
Lancaster, PA 17601

Phone: +1 717 656 2300

CUSTOMER INFORMATION:

Company:	ALS Houston
Contact:	James Guin
Address:	10450 Stancliff Rd, Ste 210
Phone:	+1 281 530 5656
Email:	James.Guin@alsglobal.com
Alternate Contact:	Jumoke M. Lawal
Email:	jumoke.lawal@alsglobal.com

INVOICE INFORMATION:

Company:	ALS Houston
Contact:	Accounts Payable
Address:	10450 Stancliff Rd, Ste 210
Phone:	+1 281 530 5656
Reference:	22344
TSR:	Ron Martino

Item	Catalog No	Unit Price	Quantity	Ext Price
1. RSK-CO2; DoD Level II & IV, Equ_APTIM_GISKey	NA		3	

Order Total:

Login Sample Receipt Checklist

Client: ALS Group USA, Corp

Job Number: 410-134453-1

Login Number: 134453
List Number: 1
Creator: Ballard, Megan

List Source: Eurofins Lancaster Laboratories Environment Testing, LLC

Question	Answer	Comment
The cooler's custody seal is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable (</=6C, not frozen).	True	
Cooler Temperature is recorded.	True	
WV: Container Temperature is acceptable (</=6C, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	False	Received project as a subcontract.
Sample custody seals are intact.	N/A	
VOA sample vials do not have headspace >6mm in diameter (none, if from WV)?	N/A	

HS23070658 LHAAP 16 January 2023 Cover Page

ALS WO# HS23070658

ALS Environmental
ALS Group USA, Corp
10450 Stancliff Road, Suite 210
Houston, TX 77099
T : +1 281 530 5656
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www.alsglobal.com

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HS23070658 Wetchem 9056_W
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HS23070658 Wetchem TOC_W 5310B
HS23070658 E2300641-IV
CoverLetter
Certificate of Analysis

10450 Stancliff Rd. Suite 210
Houston, TX 77099
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F: +1 281 530 5887
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right solutions.
right partner.

WorkOrder: HS23070658

LHAAP 16 January 2023

Aptim Environmental & Infrastucture, Inc.

Vicki Graves
10333 Richmond Ave Ste 1030
Houston TX 77042

27-Jul-2023

HS23070658 LHAAP 16 January 2023 Final

ALS WO# HS23070658

10450 Stancliff Rd. Suite 210
Houston, TX 77099
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F: +1 281 530 5887

July 28, 2023

Vicki Graves
Aptim Environmental & Infrastucture, Inc.
10333 Richmond Ave
Ste 1030
Houston, TX 77042

Work Order: **HS23070658**

Laboratory Results for: **LHAAP 16 January 2023**

Dear Vicki Graves ,

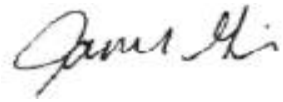
ALS Environmental received 11 sample(s) on Jul 13, 2023 for the analysis presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

If you have any questions regarding this report, please feel free to call me.

Sincerely,



Generated By: JUMOKE.LAWAL
James Guin

ALS Houston, US Date: 28-Jul-23

Client: Aptim Environmental & Infrastucture, Inc.
Project: LHAAP 16 January 2023
Work Order: HS23070658

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS23070658-01	16WW55-230712	Groundwater		12-Jul-2023 07:05	13-Jul-2023 09:30	☐
HS23070658-02	16WW41-230712	Groundwater		12-Jul-2023 07:50	13-Jul-2023 09:30	☐
HS23070658-03	16WW48-230712	Groundwater		12-Jul-2023 08:35	13-Jul-2023 09:30	☐
HS23070658-04	16WW48-230712-FD	Groundwater		12-Jul-2023 08:35	13-Jul-2023 09:30	☐
HS23070658-05	16EW03-230712	Groundwater		12-Jul-2023 09:25	13-Jul-2023 09:30	☐
HS23070658-06	16WW35-230712	Groundwater		12-Jul-2023 10:15	13-Jul-2023 09:30	☐
HS23070658-07	16WW36-230712	Groundwater		12-Jul-2023 11:00	13-Jul-2023 09:30	☐
HS23070658-08	16WW25-230712	Groundwater		12-Jul-2023 11:45	13-Jul-2023 09:30	☐
HS23070658-09	16WW26-230712	Groundwater		12-Jul-2023 12:25	13-Jul-2023 09:30	☐
HS23070658-10	16WW26-230712-FD	Groundwater		12-Jul-2023 12:25	13-Jul-2023 09:30	☐
HS23070658-11	Trip blank-230712	Water	CG-061323-93	12-Jul-2023 00:00	13-Jul-2023 09:30	☐

ALS Houston, US Date: 28-Jul-23

Client: Aptim Environmental & Infrastucture, Inc. **CASE NARRATIVE**
Project: LHAAP 16 January 2023
Work Order: HS23070658

Work Order Comments

- The analysis for CO2 by RSK175 was subcontracted to Eurofins in Lancaster, PA. The final report is appended.
- The analysis for Perchlorate was performed by ALS Houston Specialty Lab. The final report is appended.

Work Order Comments

- Login Notes: 1/3 vials dissolved gas 16WW35-230712 missing time
  1/3 vials CO2 in water 16WW35-230712 missing 12 in label

GC Semivolatiles by Method RSK-175

Batch ID: R441466

Sample ID: HS23070546-03MS

- MS and MSD are for an unrelated sample

GCMS Volatiles by Method SW8260

Batch ID: R441712

Sample ID: 16WW35-230712 (HS23070658-06)

- Lowest practical dilution due to matrix.

Sample ID: 16EW03-230712 (HS23070658-05MS)

- MS and or MSD failed QC limit for some few compounds

Batch ID: R441608

Sample ID: HS23070546-03MS

- MS and MSD are for an unrelated sample.

Batch ID: R441778

- Acrolein exceeded %D limits for CCV .Sample is ND for this compound.

WetChemistry by Method SM5310B

Batch ID: R442440,R442441

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

WetChemistry by Method E415.1

Batch ID: R442439

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

ALS Houston, US Date: 28-Jul-23

Client: Aptim Environmental & Infrastucture, Inc. **CASE NARRATIVE**
Project: LHAAP 16 January 2023
Work Order: HS23070658

WetChemistry by Method SW9056

Batch ID: R441312

Sample ID: 16EW03-230712 (HS23070658-05)

- The reporting limit is elevated due to dilution for high concentrations of non-target analytes. (Nitrogen, Nitrate (As N))

Sample ID: 16WW35-230712 (HS23070658-06)

- The reporting limit is elevated due to dilution for high concentrations of non-target analytes. (Nitrogen, Nitrate (As N))

Sample ID: 16WW41-230712 (HS23070658-02)

- The reporting limit is elevated due to dilution for high concentrations of non-target analytes. (Nitrogen, Nitrate (As N))

Sample ID: 16WW48-230712 (HS23070658-03)

- The reporting limit is elevated due to dilution for high concentrations of non-target analytes. (Nitrogen, Nitrate (As N))

Sample ID: 16WW48-230712-FD (HS23070658-04)

- The reporting limit is elevated due to dilution for high concentrations of non-target analytes. (Nitrogen, Nitrate (As N))

ALS Houston, US Date: 28-Jul-23

Client: Aptim Environmental & Infrastucture, Inc.
Project: LHAAP 16 January 2023
Sample ID: 16WW55-230712
Collection Date: 12-Jul-2023 07:05

ANALYTICAL REPORT
WorkOrder:HS23070658
Lab ID:HS23070658-01
Matrix:Groundwater

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C		**Method:SW8260**						Analyst: PC
1,1,2-Trichloroethane	5.0	U	1.5	5.0	5.0	ug/L	5	18-Jul-2023 04:39
1,1-Dichloroethene	**9.3**		**1.0**	**5.0**	**5.0**	**ug/L**	5	18-Jul-2023 04:39
1,2-Dichloroethane	**5.2**		**1.0**	**5.0**	**5.0**	**ug/L**	5	18-Jul-2023 04:39
cis-1,2-Dichloroethene	**760**		**1.0**	**5.0**	**5.0**	**ug/L**	5	18-Jul-2023 04:39
Methylene chloride	5.0	U	2.0	5.0	10	ug/L	5	18-Jul-2023 04:39
Trichloroethene	**2,900**		**10**	**50**	**50**	**ug/L**	50	18-Jul-2023 04:59
Vinyl chloride	**160**		**1.0**	**5.0**	**5.0**	**ug/L**	5	18-Jul-2023 04:39
Surr: 1,2-Dichloroethane-d4	*106*			**0**	*81-118*	*%REC*	*5*	*18-Jul-2023 04:39*
Surr: 1,2-Dichloroethane-d4	*107*			**0**	*81-118*	*%REC*	*50*	*18-Jul-2023 04:59*
Surr: 4-Bromofluorobenzene	*94.4*			**0**	*85-114*	*%REC*	*5*	*18-Jul-2023 04:39*
Surr: 4-Bromofluorobenzene	*93.8*			**0**	*85-114*	*%REC*	*50*	*18-Jul-2023 04:59*
Surr: Dibromofluoromethane	*106*			**0**	*80-119*	*%REC*	*5*	*18-Jul-2023 04:39*
Surr: Dibromofluoromethane	*107*			**0**	*80-119*	*%REC*	*50*	*18-Jul-2023 04:59*
Surr: Toluene-d8	*103*			**0**	*89-112*	*%REC*	*5*	*18-Jul-2023 04:39*
Surr: Toluene-d8	*103*			**0**	*89-112*	*%REC*	*50*	*18-Jul-2023 04:59*
DISSOLVED GASES BY RSK-175		**Method:RSK-175**						Analyst: SAM
Ethane	**0.00973**		**0.000144**	**0.000500**	**0.00100**	**mg/L**	1	13-Jul-2023 18:20
Ethene	**0.0343**		**0.000234**	**0.000500**	**0.00100**	**mg/L**	1	13-Jul-2023 18:20
Methane	**1.70**		**0.00535**	**0.0250**	**0.0250**	**mg/L**	50	13-Jul-2023 19:19
TOTAL ORGANIC CARBON BY E415.1		**Method:E415.1**						Analyst: DW
Organic Carbon, Total	**10.5**	Ja	**10.0**	**20.0**	**20.0**	**mg/L**	20	26-Jul-2023 19:20
ANIONS BY SW9056A		**Method:SW9056**						Analyst: TH
Nitrogen, Nitrate (As N)	**0.0836**	J	**0.0300**	**0.0500**	**0.100**	**mg/L**	1	14-Jul-2023 00:06
Sulfate	**813**		**4.00**	**5.00**	**10.0**	**mg/L**	20	14-Jul-2023 00:12
SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)		**Method:NA**						Analyst: SUB
Subcontract Analysis	See Attached		0	0		NA	1	26-Jul-2023 12:05
SUBCONTRACT ANALYSIS - RSK		**Method:NA**						Analyst: SUB
Subcontract Analysis	See Attached		0	0		NA	1	19-Jul-2023 09:46

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US Date: 28-Jul-23

Client: Aptim Environmental & Infrastucture, Inc.
Project: LHAAP 16 January 2023
Sample ID: 16WW41-230712
Collection Date: 12-Jul-2023 07:50

ANALYTICAL REPORT
WorkOrder:HS23070658
Lab ID:HS23070658-02
Matrix:Groundwater

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C		**Method:SW8260**						Analyst: PC
1,1,2-Trichloroethane	10	U	3.0	10	10	ug/L	10	18-Jul-2023 05:20
1,1-Dichloroethene	**33**		**2.0**	**10**	**10**	**ug/L**	10	18-Jul-2023 05:20
1,2-Dichloroethane	**6.1**	J	**2.0**	**10**	**10**	**ug/L**	10	18-Jul-2023 05:20
cis-1,2-Dichloroethene	**4,000**		**20**	**100**	**100**	**ug/L**	100	18-Jul-2023 05:40
Methylene chloride	10	U	4.0	10	20	ug/L	10	18-Jul-2023 05:20
Trichloroethene	**6,300**		**20**	**100**	**100**	**ug/L**	100	18-Jul-2023 05:40
Vinyl chloride	**890**		**2.0**	**10**	**10**	**ug/L**	10	18-Jul-2023 05:20
Surr: 1,2-Dichloroethane-d4	*105*			**0**	*81-118*	*%REC*	*10*	*18-Jul-2023 05:20*
Surr: 1,2-Dichloroethane-d4	*105*			**0**	*81-118*	*%REC*	*100*	*18-Jul-2023 05:40*
Surr: 4-Bromofluorobenzene	*97.3*			**0**	*85-114*	*%REC*	*10*	*18-Jul-2023 05:20*
Surr: 4-Bromofluorobenzene	*93.9*			**0**	*85-114*	*%REC*	*100*	*18-Jul-2023 05:40*
Surr: Dibromofluoromethane	*106*			**0**	*80-119*	*%REC*	*10*	*18-Jul-2023 05:20*
Surr: Dibromofluoromethane	*106*			**0**	*80-119*	*%REC*	*100*	*18-Jul-2023 05:40*
Surr: Toluene-d8	*101*			**0**	*89-112*	*%REC*	*100*	*18-Jul-2023 05:40*
Surr: Toluene-d8	*102*			**0**	*89-112*	*%REC*	*10*	*18-Jul-2023 05:20*
DISSOLVED GASES BY RSK-175		**Method:RSK-175**						Analyst: SAM
Ethane	0.000500	U	0.000144	0.000500	0.00100	mg/L	1	13-Jul-2023 18:28
Ethene	**0.0592**		**0.000234**	**0.000500**	**0.00100**	**mg/L**	1	13-Jul-2023 18:28
Methane	**0.0294**		**0.000107**	**0.000500**	**0.000500**	**mg/L**	1	13-Jul-2023 18:28
TOTAL ORGANIC CARBON BY E415.1		**Method:E415.1**						Analyst: DW
Organic Carbon, Total	**60.1**	a	**5.00**	**10.0**	**10.0**	**mg/L**	10	26-Jul-2023 19:36
ANIONS BY SW9056A		**Method:SW9056**						Analyst: TH
Nitrogen, Nitrate (As N)	0.500	U	0.300	0.500	1.00	mg/L	10	14-Jul-2023 00:18
Sulfate	**11,200**		**40.0**	**50.0**	**100**	**mg/L**	200	14-Jul-2023 00:24
SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)		**Method:NA**						Analyst: SUB
Subcontract Analysis	See Attached		0	0		NA	1	26-Jul-2023 12:05
SUBCONTRACT ANALYSIS - RSK		**Method:NA**						Analyst: SUB
Subcontract Analysis	See Attached		0	0		NA	1	19-Jul-2023 09:46

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US Date: 28-Jul-23

Client: Aptim Environmental & Infrastucture, Inc.
Project: LHAAP 16 January 2023
Sample ID: 16WW48-230712
Collection Date: 12-Jul-2023 08:35

ANALYTICAL REPORT
WorkOrder:HS23070658
Lab ID:HS23070658-03
Matrix:Groundwater

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C		**Method:SW8260**						Analyst: PC
1,1,2-Trichloroethane	100	U	30	100	100	ug/L	100	18-Jul-2023 06:42
1,1-Dichloroethene	**79**	J	**20**	**100**	**100**	**ug/L**	100	18-Jul-2023 06:42
1,2-Dichloroethane	100	U	20	100	100	ug/L	100	18-Jul-2023 06:42
cis-1,2-Dichloroethene	**31,000**		**100**	**500**	**500**	**ug/L**	500	18-Jul-2023 07:02
Methylene chloride	100	U	40	100	200	ug/L	100	18-Jul-2023 06:42
Trichloroethene	**18,000**		**20**	**100**	**100**	**ug/L**	100	18-Jul-2023 06:42
Vinyl chloride	**720**		**20**	**100**	**100**	**ug/L**	100	18-Jul-2023 06:42
Surr: 1,2-Dichloroethane-d4	*105*			**0**	*81-118*	*%REC*	*100*	*18-Jul-2023 06:42*
Surr: 1,2-Dichloroethane-d4	*104*			**0**	*81-118*	*%REC*	*500*	*18-Jul-2023 07:02*
Surr: 4-Bromofluorobenzene	*95.1*			**0**	*85-114*	*%REC*	*100*	*18-Jul-2023 06:42*
Surr: 4-Bromofluorobenzene	*90.8*			**0**	*85-114*	*%REC*	*500*	*18-Jul-2023 07:02*
Surr: Dibromofluoromethane	*105*			**0**	*80-119*	*%REC*	*100*	*18-Jul-2023 06:42*
Surr: Dibromofluoromethane	*102*			**0**	*80-119*	*%REC*	*500*	*18-Jul-2023 07:02*
Surr: Toluene-d8	*104*			**0**	*89-112*	*%REC*	*100*	*18-Jul-2023 06:42*
Surr: Toluene-d8	*104*			**0**	*89-112*	*%REC*	*500*	*18-Jul-2023 07:02*
DISSOLVED GASES BY RSK-175		**Method:RSK-175**						Analyst: SAM
Ethane	0.000500	U	0.000144	0.000500	0.00100	mg/L	1	13-Jul-2023 18:36
Ethene	**0.239**		**0.00117**	**0.00250**	**0.00500**	**mg/L**	5	13-Jul-2023 19:31
Methane	**0.101**		**0.000535**	**0.00250**	**0.00250**	**mg/L**	5	13-Jul-2023 19:31
ANIONS BY SW9056A		**Method:SW9056**						Analyst: TH
Nitrogen, Nitrate (As N)	**0.433**		**0.0600**	**0.100**	**0.200**	**mg/L**	2	14-Jul-2023 01:10
Sulfate	**3,090**		**10.0**	**12.5**	**25.0**	**mg/L**	50	14-Jul-2023 01:16
SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)		**Method:NA**						Analyst: SUB
Subcontract Analysis	See Attached		0	0		NA	1	26-Jul-2023 12:05
SUBCONTRACT ANALYSIS - RSK		**Method:NA**						Analyst: SUB
Subcontract Analysis	See Attached		0	0		NA	1	19-Jul-2023 09:46

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US Date: 28-Jul-23

Client: Aptim Environmental & Infrastucture, Inc.
Project: LHAAP 16 January 2023
Sample ID: 16WW48-230712-FD
Collection Date: 12-Jul-2023 08:35

ANALYTICAL REPORT
WorkOrder:HS23070658
Lab ID:HS23070658-04
Matrix:Groundwater

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C		**Method:SW8260**						Analyst: PC
1,1,2-Trichloroethane	100	U	30	100	100	ug/L	100	18-Jul-2023 07:23
1,1-Dichloroethene	**82**	J	**20**	**100**	**100**	**ug/L**	100	18-Jul-2023 07:23
1,2-Dichloroethane	100	U	20	100	100	ug/L	100	18-Jul-2023 07:23
cis-1,2-Dichloroethene	**33,000**		**100**	**500**	**500**	**ug/L**	500	18-Jul-2023 07:43
Methylene chloride	100	U	40	100	200	ug/L	100	18-Jul-2023 07:23
Trichloroethene	**17,000**		**20**	**100**	**100**	**ug/L**	100	18-Jul-2023 07:23
Vinyl chloride	**670**		**20**	**100**	**100**	**ug/L**	100	18-Jul-2023 07:23
Surr: 1,2-Dichloroethane-d4	*104*			**0**	*81-118*	*%REC*	*100*	*18-Jul-2023 07:23*
Surr: 1,2-Dichloroethane-d4	*109*			**0**	*81-118*	*%REC*	*500*	*18-Jul-2023 07:43*
Surr: 4-Bromofluorobenzene	*91.3*			**0**	*85-114*	*%REC*	*100*	*18-Jul-2023 07:23*
Surr: 4-Bromofluorobenzene	*91.5*			**0**	*85-114*	*%REC*	*500*	*18-Jul-2023 07:43*
Surr: Dibromofluoromethane	*105*			**0**	*80-119*	*%REC*	*100*	*18-Jul-2023 07:23*
Surr: Dibromofluoromethane	*108*			**0**	*80-119*	*%REC*	*500*	*18-Jul-2023 07:43*
Surr: Toluene-d8	*101*			**0**	*89-112*	*%REC*	*100*	*18-Jul-2023 07:23*
Surr: Toluene-d8	*103*			**0**	*89-112*	*%REC*	*500*	*18-Jul-2023 07:43*
DISSOLVED GASES BY RSK-175		**Method:RSK-175**						Analyst: SAM
Ethane	0.000500	U	0.000144	0.000500	0.00100	mg/L	1	13-Jul-2023 18:45
Ethene	**0.233**		**0.00117**	**0.00250**	**0.00500**	**mg/L**	5	13-Jul-2023 19:40
Methane	**0.0988**		**0.000535**	**0.00250**	**0.00250**	**mg/L**	5	13-Jul-2023 19:40
ANIONS BY SW9056A		**Method:SW9056**						Analyst: TH
Nitrogen, Nitrate (As N)	0.100	U	0.0600	0.100	0.200	mg/L	2	14-Jul-2023 01:22
Sulfate	**3,290**		**10.0**	**12.5**	**25.0**	**mg/L**	50	14-Jul-2023 01:27
SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)		**Method:NA**						Analyst: SUB
Subcontract Analysis	See Attached		0	0		NA	1	26-Jul-2023 12:05
SUBCONTRACT ANALYSIS - RSK		**Method:NA**						Analyst: SUB
Subcontract Analysis	See Attached		0	0		NA	1	19-Jul-2023 09:46

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US Date: 28-Jul-23

Client: Aptim Environmental & Infrastucture, Inc.
Project: LHAAP 16 January 2023
Sample ID: 16EW03-230712
Collection Date: 12-Jul-2023 09:25

ANALYTICAL REPORT
WorkOrder:HS23070658
Lab ID:HS23070658-05
Matrix:Groundwater

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C		**Method:SW8260**						Analyst: PC
1,1,2-Trichloroethane	**1.1**		**0.30**	**1.0**	**1.0**	**ug/L**	1	19-Jul-2023 00:59
1,1-Dichloroethene	**11**		**0.20**	**1.0**	**1.0**	**ug/L**	1	19-Jul-2023 00:59
1,2-Dichloroethane	**1.5**		**0.20**	**1.0**	**1.0**	**ug/L**	1	19-Jul-2023 00:59
cis-1,2-Dichloroethene	**2,400**		**4.0**	**20**	**20**	**ug/L**	20	19-Jul-2023 01:19
Methylene chloride	1.0	U	0.40	1.0	2.0	ug/L	1	19-Jul-2023 00:59
Trichloroethene	**53**		**0.20**	**1.0**	**1.0**	**ug/L**	1	19-Jul-2023 00:59
Vinyl chloride	**610**		**4.0**	**20**	**20**	**ug/L**	20	19-Jul-2023 01:19
Surr: 1,2-Dichloroethane-d4	*110*			**0**	*81-118*	*%REC*	*1*	*19-Jul-2023 00:59*
Surr: 1,2-Dichloroethane-d4	*105*			**0**	*81-118*	*%REC*	*20*	*19-Jul-2023 01:19*
Surr: 4-Bromofluorobenzene	*99.6*			**0**	*85-114*	*%REC*	*1*	*19-Jul-2023 00:59*
Surr: 4-Bromofluorobenzene	*96.8*			**0**	*85-114*	*%REC*	*20*	*19-Jul-2023 01:19*
Surr: Dibromofluoromethane	*106*			**0**	*80-119*	*%REC*	*1*	*19-Jul-2023 00:59*
Surr: Dibromofluoromethane	*107*			**0**	*80-119*	*%REC*	*20*	*19-Jul-2023 01:19*
Surr: Toluene-d8	*103*			**0**	*89-112*	*%REC*	*1*	*19-Jul-2023 00:59*
Surr: Toluene-d8	*105*			**0**	*89-112*	*%REC*	*20*	*19-Jul-2023 01:19*
DISSOLVED GASES BY RSK-175		**Method:RSK-175**						Analyst: SAM
Ethane	0.000500	U	0.000144	0.000500	0.00100	mg/L	1	13-Jul-2023 19:02
Ethene	**0.384**		**0.0234**	**0.0500**	**0.100**	**mg/L**	100	13-Jul-2023 19:48
Methane	**3.46**		**0.0107**	**0.0500**	**0.0500**	**mg/L**	100	13-Jul-2023 19:48
TOTAL ORGANIC CARBON BY E415.1		**Method:E415.1**						Analyst: DW
Organic Carbon, Total	**23.8**	a	**5.00**	**10.0**	**10.0**	**mg/L**	10	26-Jul-2023 20:23
ANIONS BY SW9056A		**Method:SW9056**						Analyst: TH
Nitrogen, Nitrate (As N)	0.100	U	0.0600	0.100	0.200	mg/L	2	14-Jul-2023 01:33
Sulfate	**2,700**		**10.0**	**12.5**	**25.0**	**mg/L**	50	14-Jul-2023 01:39
SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)		**Method:NA**						Analyst: SUB
Subcontract Analysis	See Attached		0	0		NA	1	26-Jul-2023 12:05
SUBCONTRACT ANALYSIS - RSK		**Method:NA**						Analyst: SUB
Subcontract Analysis	See Attached		0	0		NA	1	19-Jul-2023 09:46

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US Date: 28-Jul-23

Client: Aptim Environmental & Infrastucture, Inc.
Project: LHAAP 16 January 2023
Sample ID: 16WW35-230712
Collection Date: 12-Jul-2023 10:15

ANALYTICAL REPORT
WorkOrder:HS23070658
Lab ID:HS23070658-06
Matrix:Groundwater

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C		**Method:SW8260**						Analyst: PC
1,1,2-Trichloroethane	100	U	30	100	100	ug/L	100	19-Jul-2023 01:40
1,1-Dichloroethene	**110**		**20**	**100**	**100**	**ug/L**	100	19-Jul-2023 01:40
1,2-Dichloroethane	100	U	20	100	100	ug/L	100	19-Jul-2023 01:40
cis-1,2-Dichloroethene	**770**		**20**	**100**	**100**	**ug/L**	100	19-Jul-2023 01:40
Methylene chloride	100	U	40	100	200	ug/L	100	19-Jul-2023 01:40
Trichloroethene	**9,100**		**20**	**100**	**100**	**ug/L**	100	19-Jul-2023 01:40
Vinyl chloride	**160**		**20**	**100**	**100**	**ug/L**	100	19-Jul-2023 01:40
Surr: 1,2-Dichloroethane-d4	*107*			**0**	*81-118*	*%REC*	*100*	*19-Jul-2023 01:40*
Surr: 4-Bromofluorobenzene	*95.8*			**0**	*85-114*	*%REC*	*100*	*19-Jul-2023 01:40*
Surr: Dibromofluoromethane	*108*			**0**	*80-119*	*%REC*	*100*	*19-Jul-2023 01:40*
Surr: Toluene-d8	*105*			**0**	*89-112*	*%REC*	*100*	*19-Jul-2023 01:40*
DISSOLVED GASES BY RSK-175		**Method:RSK-175**						Analyst: SAM
Ethane	0.000500	U	0.000144	0.000500	0.00100	mg/L	1	13-Jul-2023 19:10
Ethene	**0.0117**		**0.000234**	**0.000500**	**0.00100**	**mg/L**	1	13-Jul-2023 19:10
Methane	**0.201**		**0.00107**	**0.00500**	**0.00500**	**mg/L**	10	13-Jul-2023 19:58
TOTAL ORGANIC CARBON BY E415.1		**Method:E415.1**						Analyst: DW
Organic Carbon, Total	**84.8**	a	**5.00**	**10.0**	**10.0**	**mg/L**	10	26-Jul-2023 20:39
ANIONS BY SW9056A		**Method:SW9056**						Analyst: TH
Nitrogen, Nitrate (As N)	0.500	U	0.300	0.500	1.00	mg/L	10	14-Jul-2023 01:45
Sulfate	**12,500**		**40.0**	**50.0**	**100**	**mg/L**	200	14-Jul-2023 01:51
SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)		**Method:NA**						Analyst: SUB
Subcontract Analysis	See Attached		0	0		NA	1	26-Jul-2023 12:05
SUBCONTRACT ANALYSIS - RSK		**Method:NA**						Analyst: SUB
Subcontract Analysis	See Attached		0	0		NA	1	19-Jul-2023 09:46

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US Date: 28-Jul-23

Client: Aptim Environmental & Infrastucture, Inc.
Project: LHAAP 16 January 2023
Sample ID: 16WW36-230712
Collection Date: 12-Jul-2023 11:00

ANALYTICAL REPORT
WorkOrder:HS23070658
Lab ID:HS23070658-07
Matrix:Groundwater

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C		**Method:SW8260**						Analyst: PC
1,1,2-Trichloroethane	50	U	15	50	50	ug/L	50	18-Jul-2023 06:01
1,1-Dichloroethene	**190**		**10**	**50**	**50**	**ug/L**	50	18-Jul-2023 06:01
1,2-Dichloroethane	50	U	10	50	50	ug/L	50	18-Jul-2023 06:01
cis-1,2-Dichloroethene	**18,000**		**100**	**500**	**500**	**ug/L**	500	18-Jul-2023 06:21
Methylene chloride	50	U	20	50	100	ug/L	50	18-Jul-2023 06:01
Trichloroethene	**23,000**		**100**	**500**	**500**	**ug/L**	500	18-Jul-2023 06:21
Vinyl chloride	**250**		**10**	**50**	**50**	**ug/L**	50	18-Jul-2023 06:01
Surr: 1,2-Dichloroethane-d4	*105*			**0**	*81-118*	*%REC*	*50*	*18-Jul-2023 06:01*
Surr: 1,2-Dichloroethane-d4	*105*			**0**	*81-118*	*%REC*	*500*	*18-Jul-2023 06:21*
Surr: 4-Bromofluorobenzene	*95.0*			**0**	*85-114*	*%REC*	*50*	*18-Jul-2023 06:01*
Surr: 4-Bromofluorobenzene	*96.0*			**0**	*85-114*	*%REC*	*500*	*18-Jul-2023 06:21*
Surr: Dibromofluoromethane	*106*			**0**	*80-119*	*%REC*	*50*	*18-Jul-2023 06:01*
Surr: Dibromofluoromethane	*105*			**0**	*80-119*	*%REC*	*500*	*18-Jul-2023 06:21*
Surr: Toluene-d8	*102*			**0**	*89-112*	*%REC*	*50*	*18-Jul-2023 06:01*
Surr: Toluene-d8	*104*			**0**	*89-112*	*%REC*	*500*	*18-Jul-2023 06:21*
TOTAL ORGANIC CARBON - SM5310B-2011		**Method:SM5310B**						Analyst: DW
Organic Carbon, Total	**29.3**		**5.00**	**10.0**	**10.0**	**mg/L**	10	26-Jul-2023 20:54
SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)		**Method:NA**						Analyst: SUB
Subcontract Analysis	See Attached		0	0		NA	1	26-Jul-2023 12:05

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US Date: 28-Jul-23

Client: Aptim Environmental & Infrastucture, Inc.
Project: LHAAP 16 January 2023
Sample ID: 16WW25-230712
Collection Date: 12-Jul-2023 11:45

ANALYTICAL REPORT
WorkOrder:HS23070658
Lab ID:HS23070658-08
Matrix:Groundwater

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C		**Method:SW8260**						Analyst: PC
1,1,2-Trichloroethane	1.0	U	0.30	1.0	1.0	ug/L	1	19-Jul-2023 00:38
1,1-Dichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	19-Jul-2023 00:38
1,2-Dichloroethane	1.0	U	0.20	1.0	1.0	ug/L	1	19-Jul-2023 00:38
cis-1,2-Dichloroethene	**1.0**		**0.20**	**1.0**	**1.0**	**ug/L**	1	19-Jul-2023 00:38
Methylene chloride	1.0	U	0.40	1.0	2.0	ug/L	1	19-Jul-2023 00:38
Trichloroethene	**4.1**		**0.20**	**1.0**	**1.0**	**ug/L**	1	19-Jul-2023 00:38
Vinyl chloride	1.0	U	0.20	1.0	1.0	ug/L	1	19-Jul-2023 00:38
Surr: 1,2-Dichloroethane-d4	*107*			**0**	*81-118*	*%REC*	*1*	*19-Jul-2023 00:38*
Surr: 4-Bromofluorobenzene	*98.1*			**0**	*85-114*	*%REC*	*1*	*19-Jul-2023 00:38*
Surr: Dibromofluoromethane	*107*			**0**	*80-119*	*%REC*	*1*	*19-Jul-2023 00:38*
Surr: Toluene-d8	*103*			**0**	*89-112*	*%REC*	*1*	*19-Jul-2023 00:38*
SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)		**Method:NA**						Analyst: SUB
Subcontract Analysis	See Attached		0	0		NA	1	26-Jul-2023 12:05

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US Date: 28-Jul-23

Client: Aptim Environmental & Infrastucture, Inc.
Project: LHAAP 16 January 2023
Sample ID: 16WW26-230712
Collection Date: 12-Jul-2023 12:25

ANALYTICAL REPORT
WorkOrder:HS23070658
Lab ID:HS23070658-09
Matrix:Groundwater

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C		**Method:SW8260**						Analyst: PC
1,1,2-Trichloroethane	1.0	U	0.30	1.0	1.0	ug/L	1	19-Jul-2023 02:21
1,1-Dichloroethene	**2.1**		**0.20**	**1.0**	**1.0**	**ug/L**	1	19-Jul-2023 02:21
1,2-Dichloroethane	1.0	U	0.20	1.0	1.0	ug/L	1	19-Jul-2023 02:21
cis-1,2-Dichloroethene	**81**		**0.20**	**1.0**	**1.0**	**ug/L**	1	19-Jul-2023 02:21
Methylene chloride	1.0	U	0.40	1.0	2.0	ug/L	1	19-Jul-2023 02:21
Trichloroethene	**1,000**		**5.0**	**25**	**25**	**ug/L**	25	19-Jul-2023 13:53
Vinyl chloride	**5.7**		**0.20**	**1.0**	**1.0**	**ug/L**	1	19-Jul-2023 02:21
Surr: 1,2-Dichloroethane-d4	*108*			**0**	*81-118*	*%REC*	*1*	*19-Jul-2023 02:21*
Surr: 1,2-Dichloroethane-d4	*112*			**0**	*81-118*	*%REC*	*25*	*19-Jul-2023 13:53*
Surr: 4-Bromofluorobenzene	*95.2*			**0**	*85-114*	*%REC*	*1*	*19-Jul-2023 02:21*
Surr: 4-Bromofluorobenzene	*94.5*			**0**	*85-114*	*%REC*	*25*	*19-Jul-2023 13:53*
Surr: Dibromofluoromethane	*107*			**0**	*80-119*	*%REC*	*1*	*19-Jul-2023 02:21*
Surr: Dibromofluoromethane	*109*			**0**	*80-119*	*%REC*	*25*	*19-Jul-2023 13:53*
Surr: Toluene-d8	*101*			**0**	*89-112*	*%REC*	*1*	*19-Jul-2023 02:21*
Surr: Toluene-d8	*101*			**0**	*89-112*	*%REC*	*25*	*19-Jul-2023 13:53*
TOTAL ORGANIC CARBON - SM5310B-2011		**Method:SM5310B**						Analyst: DW
Organic Carbon, Total	**5.82**	J	**5.00**	**10.0**	**10.0**	**mg/L**	10	26-Jul-2023 21:09
SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)		**Method:NA**						Analyst: SUB
Subcontract Analysis	See Attached		0	0		NA	1	26-Jul-2023 12:05

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US Date: 28-Jul-23

Client: Aptim Environmental & Infrastucture, Inc.
Project: LHAAP 16 January 2023
Sample ID: 16WW26-230712-FD
Collection Date: 12-Jul-2023 12:25

ANALYTICAL REPORT
WorkOrder:HS23070658
Lab ID:HS23070658-10
Matrix:Groundwater

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C		**Method:SW8260**						Analyst: PC
1,1,2-Trichloroethane	1.0	U	0.30	1.0	1.0	ug/L	1	19-Jul-2023 02:41
1,1-Dichloroethene	**2.1**		**0.20**	**1.0**	**1.0**	**ug/L**	1	19-Jul-2023 02:41
1,2-Dichloroethane	1.0	U	0.20	1.0	1.0	ug/L	1	19-Jul-2023 02:41
cis-1,2-Dichloroethene	**80**		**0.20**	**1.0**	**1.0**	**ug/L**	1	19-Jul-2023 02:41
Methylene chloride	1.0	U	0.40	1.0	2.0	ug/L	1	19-Jul-2023 02:41
Trichloroethene	**990**		**5.0**	**25**	**25**	**ug/L**	25	19-Jul-2023 14:14
Vinyl chloride	**5.5**		**0.20**	**1.0**	**1.0**	**ug/L**	1	19-Jul-2023 02:41
Surr: 1,2-Dichloroethane-d4	*110*			**0**	*81-118*	*%REC*	*1*	*19-Jul-2023 02:41*
Surr: 1,2-Dichloroethane-d4	*108*			**0**	*81-118*	*%REC*	*25*	*19-Jul-2023 14:14*
Surr: 4-Bromofluorobenzene	*95.7*			**0**	*85-114*	*%REC*	*1*	*19-Jul-2023 02:41*
Surr: 4-Bromofluorobenzene	*94.9*			**0**	*85-114*	*%REC*	*25*	*19-Jul-2023 14:14*
Surr: Dibromofluoromethane	*105*			**0**	*80-119*	*%REC*	*1*	*19-Jul-2023 02:41*
Surr: Dibromofluoromethane	*108*			**0**	*80-119*	*%REC*	*25*	*19-Jul-2023 14:14*
Surr: Toluene-d8	*104*			**0**	*89-112*	*%REC*	*1*	*19-Jul-2023 02:41*
Surr: Toluene-d8	*102*			**0**	*89-112*	*%REC*	*25*	*19-Jul-2023 14:14*
TOTAL ORGANIC CARBON - SM5310B-2011		**Method:SM5310B**						Analyst: DW
Organic Carbon, Total	**5.98**	J	**5.00**	**10.0**	**10.0**	**mg/L**	10	26-Jul-2023 22:41
SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)		**Method:NA**						Analyst: SUB
Subcontract Analysis	See Attached		0	0		NA	1	26-Jul-2023 12:05

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US Date: 28-Jul-23

Client: Aptim Environmental & Infrastucture, Inc.
Project: LHAAP 16 January 2023
Sample ID: Trip blank-230712
Collection Date: 12-Jul-2023 00:00

ANALYTICAL REPORT
WorkOrder:HS23070658
Lab ID:HS23070658-11
Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C		**Method:SW8260**						Analyst: PC
1,1,2-Trichloroethane	1.0	U	0.30	1.0	1.0	ug/L	1	18-Jul-2023 23:37
1,1-Dichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	18-Jul-2023 23:37
1,2-Dichloroethane	1.0	U	0.20	1.0	1.0	ug/L	1	18-Jul-2023 23:37
cis-1,2-Dichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	18-Jul-2023 23:37
Methylene chloride	1.0	U	0.40	1.0	2.0	ug/L	1	18-Jul-2023 23:37
Trichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	18-Jul-2023 23:37
Vinyl chloride	1.0	U	0.20	1.0	1.0	ug/L	1	18-Jul-2023 23:37
Surr: 1,2-Dichloroethane-d4	*108*			**0**	*81-118*	*%REC*	*1*	*18-Jul-2023 23:37*
Surr: 4-Bromofluorobenzene	*91.8*			**0**	*85-114*	*%REC*	*1*	*18-Jul-2023 23:37*
Surr: Dibromofluoromethane	*107*			**0**	*80-119*	*%REC*	*1*	*18-Jul-2023 23:37*
Surr: Toluene-d8	*104*			**0**	*89-112*	*%REC*	*1*	*18-Jul-2023 23:37*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US Date: 28-Jul-23

Client: Aptim Environmental & Infrastucture, Inc.
Project: LHAAP 16 January 2023
WorkOrder: HS23070658

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: R441312 (0)	**Test Name :** ANIONS BY SW9056A				**Matrix:** Groundwater	
HS23070658-01	16WW55-230712	12 Jul 2023 07:05			14 Jul 2023 00:12	20
HS23070658-01	16WW55-230712	12 Jul 2023 07:05			14 Jul 2023 00:06	1
HS23070658-02	16WW41-230712	12 Jul 2023 07:50			14 Jul 2023 00:24	200
HS23070658-02	16WW41-230712	12 Jul 2023 07:50			14 Jul 2023 00:18	10
HS23070658-03	16WW48-230712	12 Jul 2023 08:35			14 Jul 2023 01:16	50
HS23070658-03	16WW48-230712	12 Jul 2023 08:35			14 Jul 2023 01:10	2
HS23070658-04	16WW48-230712-FD	12 Jul 2023 08:35			14 Jul 2023 01:27	50
HS23070658-04	16WW48-230712-FD	12 Jul 2023 08:35			14 Jul 2023 01:22	2
HS23070658-05	16EW03-230712	12 Jul 2023 09:25			14 Jul 2023 01:39	50
HS23070658-05	16EW03-230712	12 Jul 2023 09:25			14 Jul 2023 01:33	2
HS23070658-06	16WW35-230712	12 Jul 2023 10:15			14 Jul 2023 01:51	200
HS23070658-06	16WW35-230712	12 Jul 2023 10:15			14 Jul 2023 01:45	10
Batch ID: R441466 (1)	**Test Name :** DISSOLVED GASES BY RSK-175				**Matrix:** Groundwater	
HS23070658-01	16WW55-230712	12 Jul 2023 07:05			13 Jul 2023 19:19	50
HS23070658-01	16WW55-230712	12 Jul 2023 07:05			13 Jul 2023 18:20	1
HS23070658-02	16WW41-230712	12 Jul 2023 07:50			13 Jul 2023 18:28	1
HS23070658-03	16WW48-230712	12 Jul 2023 08:35			13 Jul 2023 19:31	5
HS23070658-03	16WW48-230712	12 Jul 2023 08:35			13 Jul 2023 18:36	1
HS23070658-04	16WW48-230712-FD	12 Jul 2023 08:35			13 Jul 2023 19:40	5
HS23070658-04	16WW48-230712-FD	12 Jul 2023 08:35			13 Jul 2023 18:45	1
HS23070658-05	16EW03-230712	12 Jul 2023 09:25			13 Jul 2023 19:48	100
HS23070658-05	16EW03-230712	12 Jul 2023 09:25			13 Jul 2023 19:02	1
HS23070658-06	16WW35-230712	12 Jul 2023 10:15			13 Jul 2023 19:58	10
HS23070658-06	16WW35-230712	12 Jul 2023 10:15			13 Jul 2023 19:10	1
Batch ID: R441608 (0)	**Test Name :** VOLATILES ORGANICS BY METHOD 8260C				**Matrix:** Groundwater	
HS23070658-01	16WW55-230712	12 Jul 2023 07:05			18 Jul 2023 04:59	50
HS23070658-01	16WW55-230712	12 Jul 2023 07:05			18 Jul 2023 04:39	5
HS23070658-02	16WW41-230712	12 Jul 2023 07:50			18 Jul 2023 05:40	100
HS23070658-02	16WW41-230712	12 Jul 2023 07:50			18 Jul 2023 05:20	10
HS23070658-03	16WW48-230712	12 Jul 2023 08:35			18 Jul 2023 07:02	500
HS23070658-03	16WW48-230712	12 Jul 2023 08:35			18 Jul 2023 06:42	100
HS23070658-04	16WW48-230712-FD	12 Jul 2023 08:35			18 Jul 2023 07:43	500
HS23070658-04	16WW48-230712-FD	12 Jul 2023 08:35			18 Jul 2023 07:23	100
HS23070658-07	16WW36-230712	12 Jul 2023 11:00			18 Jul 2023 06:21	500
HS23070658-07	16WW36-230712	12 Jul 2023 11:00			18 Jul 2023 06:01	50

ALS Houston, US Date: 28-Jul-23

Client: Aptim Environmental & Infrastucture, Inc.
Project: LHAAP 16 January 2023 **DATES REPORT**
WorkOrder: HS23070658

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: R441705 (0)	**Test Name :** SUBCONTRACT ANALYSIS - RSK				**Matrix:** Groundwater	
HS23070658-01	16WW55-230712	12 Jul 2023 07:05			19 Jul 2023 09:46	1
HS23070658-02	16WW41-230712	12 Jul 2023 07:50			19 Jul 2023 09:46	1
HS23070658-03	16WW48-230712	12 Jul 2023 08:35			19 Jul 2023 09:46	1
HS23070658-04	16WW48-230712-FD	12 Jul 2023 08:35			19 Jul 2023 09:46	1
HS23070658-05	16EW03-230712	12 Jul 2023 09:25			19 Jul 2023 09:46	1
HS23070658-06	16WW35-230712	12 Jul 2023 10:15			19 Jul 2023 09:46	1
Batch ID: R441712 (0)	**Test Name :** VOLATILES ORGANICS BY METHOD 8260C				**Matrix:** Water	
HS23070658-11	Trip blank-230712	12 Jul 2023 00:00			18 Jul 2023 23:37	1
Batch ID: R441712 (0)	**Test Name :** VOLATILES ORGANICS BY METHOD 8260C				**Matrix:** Groundwater	
HS23070658-05	16EW03-230712	12 Jul 2023 09:25			19 Jul 2023 01:19	20
HS23070658-05	16EW03-230712	12 Jul 2023 09:25			19 Jul 2023 00:59	1
HS23070658-06	16WW35-230712	12 Jul 2023 10:15			19 Jul 2023 01:40	100
HS23070658-08	16WW25-230712	12 Jul 2023 11:45			19 Jul 2023 00:38	1
HS23070658-09	16WW26-230712	12 Jul 2023 12:25			19 Jul 2023 02:21	1
HS23070658-10	16WW26-230712-FD	12 Jul 2023 12:25			19 Jul 2023 02:41	1
Batch ID: R441778 (0)	**Test Name :** VOLATILES ORGANICS BY METHOD 8260C				**Matrix:** Groundwater	
HS23070658-09	16WW26-230712	12 Jul 2023 12:25			19 Jul 2023 13:53	25
HS23070658-10	16WW26-230712-FD	12 Jul 2023 12:25			19 Jul 2023 14:14	25
Batch ID: R442357 (0)	**Test Name :** SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)				**Matrix:** Groundwater	
HS23070658-01	16WW55-230712	12 Jul 2023 07:05			26 Jul 2023 12:05	1
HS23070658-02	16WW41-230712	12 Jul 2023 07:50			26 Jul 2023 12:05	1
HS23070658-03	16WW48-230712	12 Jul 2023 08:35			26 Jul 2023 12:05	1
HS23070658-04	16WW48-230712-FD	12 Jul 2023 08:35			26 Jul 2023 12:05	1
HS23070658-05	16EW03-230712	12 Jul 2023 09:25			26 Jul 2023 12:05	1
HS23070658-06	16WW35-230712	12 Jul 2023 10:15			26 Jul 2023 12:05	1
HS23070658-07	16WW36-230712	12 Jul 2023 11:00			26 Jul 2023 12:05	1
HS23070658-08	16WW25-230712	12 Jul 2023 11:45			26 Jul 2023 12:05	1
HS23070658-09	16WW26-230712	12 Jul 2023 12:25			26 Jul 2023 12:05	1
HS23070658-10	16WW26-230712-FD	12 Jul 2023 12:25			26 Jul 2023 12:05	1
Batch ID: R442439 (0)	**Test Name :** TOTAL ORGANIC CARBON BY E415.1				**Matrix:** Groundwater	
HS23070658-01	16WW55-230712	12 Jul 2023 07:05			26 Jul 2023 19:20	20
HS23070658-02	16WW41-230712	12 Jul 2023 07:50			26 Jul 2023 19:36	10
HS23070658-05	16EW03-230712	12 Jul 2023 09:25			26 Jul 2023 20:23	10
HS23070658-06	16WW35-230712	12 Jul 2023 10:15			26 Jul 2023 20:39	10
Batch ID: R442440 (0)	**Test Name :** TOTAL ORGANIC CARBON - SM5310B-2011				**Matrix:** Groundwater	
HS23070658-07	16WW36-230712	12 Jul 2023 11:00			26 Jul 2023 20:54	10
HS23070658-09	16WW26-230712	12 Jul 2023 12:25			26 Jul 2023 21:09	10

ALS Houston, US Date: 28-Jul-23

Client: Aptim Environmental & Infrastucture, Inc.
Project: LHAAP 16 January 2023
WorkOrder: HS23070658

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: R442441 (0)	**Test Name :** TOTAL ORGANIC CARBON - SM5310B-2011				**Matrix:** Groundwater	
HS23070658-10	16WW26-230712-FD	12 Jul 2023 12:25			26 Jul 2023 22:41	10

ALS Houston, US Date: 28-Jul-23

Client: Aptim Environmental & Infrastucture, Inc.
Project: LHAAP 16 January 2023
WorkOrder: HS23070658

QC BATCH REPORT

Batch ID: R441466 (1) **Instrument: FID-4** **Method: DISSOLVED GASES BY RSK-175**

MBLK Sample ID: **MBLK-230713** Units: **mg/L** Analysis Date: **13-Jul-2023 16:16**
Client ID: Run ID: **FID-4_441466** SeqNo: **7430975** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Ethane	0.000500	0.00100								U
Ethene	0.000500	0.00100								U
Methane	0.000500	0.000500								U

LCS Sample ID: **LCS-230713** Units: **mg/L** Analysis Date: **13-Jul-2023 16:33**
Client ID: Run ID: **FID-4_441466** SeqNo: **7430976** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Ethane	0.0188	0.00100	0.01804	0	104	75 - 125				
Ethene	0.0154	0.00100	0.0168	0	91.9	75 - 125				
Methane	0.00874	0.000500	0.009647	0	90.6	75 - 125				

LCSD Sample ID: **LCSD-230713** Units: **mg/L** Analysis Date: **13-Jul-2023 16:41**
Client ID: Run ID: **FID-4_441466** SeqNo: **7430977** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Ethane	0.0181	0.00100	0.01804	0	100	75 - 125	0.01875	3.52	30	
Ethene	0.0152	0.00100	0.0168	0	90.2	75 - 125	0.01544	1.82	30	
Methane	0.00877	0.000500	0.009647	0	90.9	75 - 125	0.008744	0.269	30	

MS Sample ID: **HS23070546-03MS** Units: **mg/L** Analysis Date: **13-Jul-2023 16:59**
Client ID: Run ID: **FID-4_441466** SeqNo: **7430979** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Ethane	0.0284	0.00100	0.01804	0.01513	73.5	75 - 125				S
Ethene	0.0303	0.00100	0.0168	0.01585	85.7	75 - 125				
Methane	1.73	0.000500	0.009647	1.657	783	75 - 125				SEO

ALS Houston, US Date: 28-Jul-23

Client: Aptim Environmental & Infrastucture, Inc.
Project: LHAAP 16 January 2023
WorkOrder: HS23070658

QC BATCH REPORT

Batch ID: R441466 (1) **Instrument: FID-4** **Method: DISSOLVED GASES BY RSK-175**

MSD Sample ID: **HS23070546-03MSD** Units: **mg/L** Analysis Date: **13-Jul-2023 17:25**
Client ID: Run ID: **FID-4_441466** SeqNo: **7430981** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Ethane	0.0258	0.00100	0.01804	0.01513	59.4	75 - 125	0.02840	9.39	30	S
Ethene	0.0308	0.00100	0.0168	0.01585	89.2	75 - 125	0.03026	1.89	30	
Methane	1.73	0.000500	0.009647	1.657	736	75 - 125	1.732	0.262	30	SEO

The following samples were analyzed in this batch: HS23070658-01 HS23070658-02 HS23070658-03 HS23070658-04 HS23070658-05 HS23070658-06

ALS Houston, US Date: 28-Jul-23

Client: Aptim Environmental & Infrastucture, Inc.
Project: LHAAP 16 January 2023
WorkOrder: HS23070658

QC BATCH REPORT

Batch ID: R441608 (0) **Instrument: VOA6** **Method: VOLATILES ORGANICS BY METHOD 8260C**

MBLK Sample ID: **VBLKW-230717** Units: **ug/L** Analysis Date: **17-Jul-2023 23:51**
Client ID: Run ID: **VOA6_441608** SeqNo: **7434446** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,2-Trichloroethane	1.0	1.0								U
1,1-Dichloroethene	1.0	1.0								U
1,2-Dichloroethane	1.0	1.0								U
cis-1,2-Dichloroethene	1.0	1.0								U
Methylene chloride	1.0	2.0								U
Trichloroethene	1.0	1.0								U
Vinyl chloride	1.0	1.0								U
Surr: 1,2-Dichloroethane-d4	*50.08*	*1.0*	*50*	*0*	*100*	*81 - 118*				
Surr: 4-Bromofluorobenzene	*47.28*	*1.0*	*50*	*0*	*94.6*	*85 - 114*				
Surr: Dibromofluoromethane	*52.92*	*1.0*	*50*	*0*	*106*	*80 - 119*				
Surr: Toluene-d8	*51.22*	*1.0*	*50*	*0*	*102*	*89 - 112*				

LCS Sample ID: **VLCSW-230717** Units: **ug/L** Analysis Date: **17-Jul-2023 23:10**
Client ID: Run ID: **VOA6_441608** SeqNo: **7434445** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,2-Trichloroethane	19.69	1.0	20	0	98.4	80 - 119				
1,1-Dichloroethene	22.44	1.0	20	0	112	71 - 131				
1,2-Dichloroethane	19.27	1.0	20	0	96.4	73 - 128				
cis-1,2-Dichloroethene	20.58	1.0	20	0	103	78 - 123				
Methylene chloride	23.46	2.0	20	0	117	74 - 124				
Trichloroethene	19.17	1.0	20	0	95.8	79 - 123				
Vinyl chloride	23.33	1.0	20	0	117	58 - 137				
Surr: 1,2-Dichloroethane-d4	*52.94*	*1.0*	*50*	*0*	*106*	*81 - 118*				
Surr: 4-Bromofluorobenzene	*51.07*	*1.0*	*50*	*0*	*102*	*85 - 114*				
Surr: Dibromofluoromethane	*54.12*	*1.0*	*50*	*0*	*108*	*80 - 119*				
Surr: Toluene-d8	*46.75*	*1.0*	*50*	*0*	*93.5*	*89 - 112*				

ALS Houston, US Date: 28-Jul-23

Client: Aptim Environmental & Infrastucture, Inc.
Project: LHAAP 16 January 2023
WorkOrder: HS23070658

QC BATCH REPORT

Batch ID: R441608 (0) **Instrument:** VOA6 **Method:** VOLATILES ORGANICS BY METHOD 8260C

MS Sample ID: **HS23070546-03MS** Units: **ug/L** Analysis Date: **18-Jul-2023 01:34**
Client ID: Run ID: **VOA6_441608** SeqNo: **7434451** PrepDate: DF: **1000**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,2-Trichloroethane	23120	1000	20000	0	116	80 - 119				
1,1-Dichloroethene	25230	1000	20000	0	126	71 - 131				
1,2-Dichloroethane	21590	1000	20000	0	108	73 - 128				
cis-1,2-Dichloroethene	65000	1000	20000	33480	158	78 - 123				S
Methylene chloride	24290	2000	20000	0	121	74 - 124				
Trichloroethene	89320	1000	20000	58100	156	79 - 123				S
Vinyl chloride	26810	1000	20000	920.1	129	58 - 137				
Surr: 1,2-Dichloroethane-d4	*53320*	*1000*	*50000*	*0*	*107*	*81 - 118*				
Surr: 4-Bromofluorobenzene	*47810*	*1000*	*50000*	*0*	*95.6*	*85 - 114*				
Surr: Dibromofluoromethane	*54610*	*1000*	*50000*	*0*	*109*	*80 - 119*				
Surr: Toluene-d8	*50950*	*1000*	*50000*	*0*	*102*	*89 - 112*				

MSD Sample ID: **HS23070546-03MSD** Units: **ug/L** Analysis Date: **18-Jul-2023 01:54**
Client ID: Run ID: **VOA6_441608** SeqNo: **7434452** PrepDate: DF: **1000**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,2-Trichloroethane	23870	1000	20000	0	119	80 - 119	23120	3.19	20	S
1,1-Dichloroethene	25520	1000	20000	0	128	71 - 131	25230	1.11	20	
1,2-Dichloroethane	21210	1000	20000	0	106	73 - 128	21590	1.78	20	
cis-1,2-Dichloroethene	59960	1000	20000	33480	132	78 - 123	65000	8.06	20	S
Methylene chloride	24320	2000	20000	0	122	74 - 124	24290	0.104	20	
Trichloroethene	84160	1000	20000	58100	130	79 - 123	89320	5.95	20	S
Vinyl chloride	24930	1000	20000	920.1	120	58 - 137	26810	7.25	20	
Surr: 1,2-Dichloroethane-d4	*52660*	*1000*	*50000*	*0*	*105*	*81 - 118*	*53320*	*1.24*	*20*	
Surr: 4-Bromofluorobenzene	*48880*	*1000*	*50000*	*0*	*97.8*	*85 - 114*	*47810*	*2.21*	*20*	
Surr: Dibromofluoromethane	*54150*	*1000*	*50000*	*0*	*108*	*80 - 119*	*54610*	*0.846*	*20*	
Surr: Toluene-d8	*52270*	*1000*	*50000*	*0*	*105*	*89 - 112*	*50950*	*2.56*	*20*	

The following samples were analyzed in this batch: HS23070658-01 HS23070658-02 HS23070658-03 HS23070658-04 HS23070658-07

ALS Houston, US Date: 28-Jul-23

Client: Aptim Environmental & Infrastucture, Inc.
Project: LHAAP 16 January 2023
WorkOrder: HS23070658

QC BATCH REPORT

Batch ID: R441712 (0) **Instrument: VOA6** **Method: VOLATILES ORGANICS BY METHOD 8260C**

MBLK Sample ID: **VBLKW-230718** Units: **ug/L** Analysis Date: **18-Jul-2023 23:16**
Client ID: Run ID: **VOA6_441712** SeqNo: **7436978** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,2-Trichloroethane	1.0	1.0								U
1,1-Dichloroethene	1.0	1.0								U
1,2-Dichloroethane	1.0	1.0								U
cis-1,2-Dichloroethene	1.0	1.0								U
Methylene chloride	1.0	2.0								U
Trichloroethene	1.0	1.0								U
Vinyl chloride	1.0	1.0								U
Surr: 1,2-Dichloroethane-d4	*53.69*	*1.0*	*50*	*0*	*107*	*81 - 118*				
Surr: 4-Bromofluorobenzene	*47.4*	*1.0*	*50*	*0*	*94.8*	*85 - 114*				
Surr: Dibromofluoromethane	*53.37*	*1.0*	*50*	*0*	*107*	*80 - 119*				
Surr: Toluene-d8	*51.63*	*1.0*	*50*	*0*	*103*	*89 - 112*				

LCS Sample ID: **VLCSW-230718** Units: **ug/L** Analysis Date: **18-Jul-2023 22:35**
Client ID: Run ID: **VOA6_441712** SeqNo: **7436977** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,2-Trichloroethane	19.38	1.0	20	0	96.9	80 - 119				
1,1-Dichloroethene	21.79	1.0	20	0	109	71 - 131				
1,2-Dichloroethane	19.62	1.0	20	0	98.1	73 - 128				
cis-1,2-Dichloroethene	20.02	1.0	20	0	100	78 - 123				
Methylene chloride	22.14	2.0	20	0	111	74 - 124				
Trichloroethene	20.72	1.0	20	0	104	79 - 123				
Vinyl chloride	23.26	1.0	20	0	116	58 - 137				
Surr: 1,2-Dichloroethane-d4	*53.85*	*1.0*	*50*	*0*	*108*	*81 - 118*				
Surr: 4-Bromofluorobenzene	*53.21*	*1.0*	*50*	*0*	*106*	*85 - 114*				
Surr: Dibromofluoromethane	*54.61*	*1.0*	*50*	*0*	*109*	*80 - 119*				
Surr: Toluene-d8	*47.79*	*1.0*	*50*	*0*	*95.6*	*89 - 112*				

ALS Houston, US Date: 28-Jul-23

Client: Aptim Environmental & Infrastucture, Inc.
Project: LHAAP 16 January 2023
WorkOrder: HS23070658

QC BATCH REPORT

Batch ID: R441712 (0) **Instrument:** VOA6 **Method:** VOLATILES ORGANICS BY METHOD 8260C

MS Sample ID: **HS23070658-05MS** Units: **ug/L** Analysis Date: **19-Jul-2023 03:02**
Client ID: **16EW03-230712** Run ID: **VOA6_441712** SeqNo: **7436989** PrepDate: DF: **20**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,2-Trichloroethane	441.8	20	400	0	110	80 - 119				
1,1-Dichloroethene	499.3	20	400	10.98	122	71 - 131				
1,2-Dichloroethane	445.3	20	400	0	111	73 - 128				
cis-1,2-Dichloroethene	2818	20	400	2401	104	78 - 123				O
Methylene chloride	462.8	40	400	0	116	74 - 124				
Trichloroethene	539.4	20	400	46.31	123	79 - 123				S
Vinyl chloride	1087	20	400	605.7	120	58 - 137				
Surr: 1,2-Dichloroethane-d4	*1092*	*20*	*1000*	*0*	*109*	*81 - 118*				
Surr: 4-Bromofluorobenzene	*974.3*	*20*	*1000*	*0*	*97.4*	*85 - 114*				
Surr: Dibromofluoromethane	*1088*	*20*	*1000*	*0*	*109*	*80 - 119*				
Surr: Toluene-d8	*1027*	*20*	*1000*	*0*	*103*	*89 - 112*				

MSD Sample ID: **HS23070658-05MSD** Units: **ug/L** Analysis Date: **19-Jul-2023 03:22**
Client ID: **16EW03-230712** Run ID: **VOA6_441712** SeqNo: **7436990** PrepDate: DF: **20**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,2-Trichloroethane	440.2	20	400	0	110	80 - 119	441.8	0.373	20	
1,1-Dichloroethene	439.7	20	400	10.98	107	71 - 131	499.3	12.7	20	
1,2-Dichloroethane	434.7	20	400	0	109	73 - 128	445.3	2.41	20	
cis-1,2-Dichloroethene	2605	20	400	2401	51.1	78 - 123	2818	7.85	20	SO
Methylene chloride	438.7	40	400	0	110	74 - 124	462.8	5.34	20	
Trichloroethene	480.4	20	400	46.31	109	79 - 123	539.4	11.6	20	
Vinyl chloride	999.7	20	400	605.7	98.5	58 - 137	1087	8.39	20	
Surr: 1,2-Dichloroethane-d4	*1070*	*20*	*1000*	*0*	*107*	*81 - 118*	*1092*	*2.03*	*20*	
Surr: 4-Bromofluorobenzene	*989*	*20*	*1000*	*0*	*98.9*	*85 - 114*	*974.3*	*1.49*	*20*	
Surr: Dibromofluoromethane	*1047*	*20*	*1000*	*0*	*105*	*80 - 119*	*1088*	*3.81*	*20*	
Surr: Toluene-d8	*1010*	*20*	*1000*	*0*	*101*	*89 - 112*	*1027*	*1.58*	*20*	

The following samples were analyzed in this batch: HS23070658-05 HS23070658-06 HS23070658-08 HS23070658-09 HS23070658-10 HS23070658-11

ALS Houston, US Date: 28-Jul-23

Client: Aptim Environmental & Infrastucture, Inc.
Project: LHAAP 16 January 2023
WorkOrder: HS23070658

QC BATCH REPORT

Batch ID: R441778 (0) **Instrument:** VOA6 **Method:** VOLATILES ORGANICS BY METHOD 8260C

MBLK Sample ID: **VBLKW-230719** Units: **ug/L** Analysis Date: **19-Jul-2023 12:11**
Client ID: Run ID: **VOA6_441778** SeqNo: **7438502** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Trichloroethene	1.0	1.0								U
Surr: 1,2-Dichloroethane-d4	*53.81*	*1.0*	*50*	*0*	*108*	*81 - 118*				
Surr: 4-Bromofluorobenzene	*46.96*	*1.0*	*50*	*0*	*93.9*	*85 - 114*				
Surr: Dibromofluoromethane	*53.47*	*1.0*	*50*	*0*	*107*	*80 - 119*				
Surr: Toluene-d8	*51.68*	*1.0*	*50*	*0*	*103*	*89 - 112*				

LCS Sample ID: **VLCSW-230719** Units: **ug/L** Analysis Date: **19-Jul-2023 12:52**
Client ID: Run ID: **VOA6_441778** SeqNo: **7438504** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Trichloroethene	19.51	1.0	20	0	97.6	79 - 123				
Surr: 1,2-Dichloroethane-d4	*54.57*	*1.0*	*50*	*0*	*109*	*81 - 118*				
Surr: 4-Bromofluorobenzene	*51.96*	*1.0*	*50*	*0*	*104*	*85 - 114*				
Surr: Dibromofluoromethane	*53.54*	*1.0*	*50*	*0*	*107*	*80 - 119*				
Surr: Toluene-d8	*46.76*	*1.0*	*50*	*0*	*93.5*	*89 - 112*				

MS Sample ID: **HS23070791-03MS** Units: **ug/L** Analysis Date: **19-Jul-2023 13:12**
Client ID: Run ID: **VOA6_441778** SeqNo: **7438505** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Trichloroethene	23.51	1.0	20	0	118	79 - 123				
Surr: 1,2-Dichloroethane-d4	*52.16*	*1.0*	*50*	*0*	*104*	*81 - 118*				
Surr: 4-Bromofluorobenzene	*49.37*	*1.0*	*50*	*0*	*98.7*	*85 - 114*				
Surr: Dibromofluoromethane	*53.13*	*1.0*	*50*	*0*	*106*	*80 - 119*				
Surr: Toluene-d8	*50.94*	*1.0*	*50*	*0*	*102*	*89 - 112*				

ALS Houston, US Date: 28-Jul-23

Client: Aptim Environmental & Infrastucture, Inc.
Project: LHAAP 16 January 2023
WorkOrder: HS23070658

QC BATCH REPORT

Batch ID: R441778 (0) **Instrument:** VOA6 **Method:** VOLATILES ORGANICS BY METHOD 8260C

MSD Sample ID: **HS23070791-03MSD** Units: **ug/L** Analysis Date: **19-Jul-2023 13:33**
Client ID: Run ID: **VOA6_441778** SeqNo: **7438506** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Trichloroethene	24.53	1.0	20	0	123	79 - 123	23.51	4.27	20	
Surr: 1,2-Dichloroethane-d4	*55.5*	*1.0*	*50*	*0*	*111*	*81 - 118*	*52.16*	*6.2*	*20*	
Surr: 4-Bromofluorobenzene	*47.58*	*1.0*	*50*	*0*	*95.2*	*85 - 114*	*49.37*	*3.68*	*20*	
Surr: Dibromofluoromethane	*53.79*	*1.0*	*50*	*0*	*108*	*80 - 119*	*53.13*	*1.24*	*20*	
Surr: Toluene-d8	*51.01*	*1.0*	*50*	*0*	*102*	*89 - 112*	*50.94*	*0.121*	*20*	

The following samples were analyzed in this batch: HS23070658-09 HS23070658-10

ALS Houston, US Date: 28-Jul-23

Client: Aptim Environmental & Infrastucture, Inc.
Project: LHAAP 16 January 2023
WorkOrder: HS23070658

QC BATCH REPORT

Batch ID: R441312 (0) **Instrument: ICS-Integrion** **Method: ANIONS BY SW9056A**

MBLK Sample ID: **MBLK** Units: **mg/L** Analysis Date: **13-Jul-2023 21:58**
Client ID: Run ID: **ICS-Integrion_441312** SeqNo: **7427300** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Nitrogen, Nitrate (As N)	0.0500	0.100								U
Sulfate	0.250	0.500								U

LCS Sample ID: **LCS** Units: **mg/L** Analysis Date: **13-Jul-2023 22:04**
Client ID: Run ID: **ICS-Integrion_441312** SeqNo: **7427301** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Nitrogen, Nitrate (As N)	4.254	0.100	4	0	106	80 - 120				
Sulfate	21.96	0.500	20	0	110	80 - 120				

MS Sample ID: **HS23061952-11MS** Units: **mg/L** Analysis Date: **13-Jul-2023 22:22**
Client ID: Run ID: **ICS-Integrion_441312** SeqNo: **7427303** PrepDate: DF: **10**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Nitrogen, Nitrate (As N)	20.85	1.00	20	0	104	80 - 120				
Sulfate	140	5.00	100	36.05	104	80 - 120				

MSD Sample ID: **HS23061952-11MSD** Units: **mg/L** Analysis Date: **13-Jul-2023 22:27**
Client ID: Run ID: **ICS-Integrion_441312** SeqNo: **7427304** PrepDate: DF: **10**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Nitrogen, Nitrate (As N)	20.83	1.00	20	0	104	80 - 120	20.85	0.0912	20	
Sulfate	141.1	5.00	100	36.05	105	80 - 120	140	0.782	20	

The following samples were analyzed in this batch: HS23070658-01 HS23070658-02 HS23070658-03 HS23070658-04 HS23070658-05 HS23070658-06

ALS Houston, US Date: 28-Jul-23

Client: Aptim Environmental & Infrastucture, Inc.
Project: LHAAP 16 January 2023
WorkOrder: HS23070658

QC BATCH REPORT

Batch ID: R442439 (0) **Instrument: TOC_05** **Method: TOTAL ORGANIC CARBON BY E415.1**

MBLK Sample ID: **MBLK-07262023** Units: **mg/L** Analysis Date: **26-Jul-2023 17:17**
Client ID: Run ID: **TOC_05_442439** SeqNo: **7454148** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Organic Carbon, Total	1.00	1.00								U

LCS Sample ID: **LCS-07262023** Units: **mg/L** Analysis Date: **26-Jul-2023 17:33**
Client ID: Run ID: **TOC_05_442439** SeqNo: **7454149** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Organic Carbon, Total	9.626	1.00	10	0	96.3	85 - 115				

LCSD Sample ID: **LCSD-07262023** Units: **mg/L** Analysis Date: **26-Jul-2023 17:49**
Client ID: Run ID: **TOC_05_442439** SeqNo: **7454150** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Organic Carbon, Total	9.663	1.00	10	0	96.6	85 - 115	9.626	0.384	20	

MS Sample ID: **HS23070546-03MS** Units: **mg/L** Analysis Date: **26-Jul-2023 18:50**
Client ID: Run ID: **TOC_05_442439** SeqNo: **7454154** PrepDate: DF: **10**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Organic Carbon, Total	104.3	10.0	100	7.587	96.7	80 - 120				

The following samples were analyzed in this batch: HS23070658-01 HS23070658-02 HS23070658-05 HS23070658-06

ALS Houston, US Date: 28-Jul-23

Client: Aptim Environmental & Infrastucture, Inc.
Project: LHAAP 16 January 2023
WorkOrder: HS23070658

QC BATCH REPORT

Batch ID: R442440 (0) **Instrument:** TOC_05 **Method:** TOTAL ORGANIC CARBON - SM5310B-2011

MBLK Sample ID: **MBLK-07262023** Units: **mg/L** Analysis Date: **26-Jul-2023 17:17**
Client ID: Run ID: **TOC_05_442440** SeqNo: **7454166** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Organic Carbon, Total	1.00	1.00								U

LCS Sample ID: **LCS-07262023** Units: **mg/L** Analysis Date: **26-Jul-2023 17:33**
Client ID: Run ID: **TOC_05_442440** SeqNo: **7454167** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Organic Carbon, Total	9.626	1.00	10	0	96.3	85 - 115				

LCSD Sample ID: **LCSD-07262023** Units: **mg/L** Analysis Date: **26-Jul-2023 17:49**
Client ID: Run ID: **TOC_05_442440** SeqNo: **7454168** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Organic Carbon, Total	9.663	1.00	10	0	96.6	85 - 115	9.626	0.384	20	

MS Sample ID: **HS23070546-03MS** Units: **mg/L** Analysis Date: **26-Jul-2023 18:50**
Client ID: Run ID: **TOC_05_442440** SeqNo: **7454170** PrepDate: DF: **10**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Organic Carbon, Total	104.3	10.0	100	7.587	96.7	80 - 120				

The following samples were analyzed in this batch: HS23070658-07 HS23070658-09

ALS Houston, US Date: 28-Jul-23

Client: Aptim Environmental & Infrastucture, Inc.
Project: LHAAP 16 January 2023
WorkOrder: HS23070658

QC BATCH REPORT

Batch ID: R442441 (0) **Instrument:** TOC_05 **Method:** TOTAL ORGANIC CARBON - SM5310B-2011

MBLK Sample ID: **MBLK-07262023** Units: **mg/L** Analysis Date: **26-Jul-2023 21:54**
Client ID: Run ID: **TOC_05_442441** SeqNo: **7454179** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Organic Carbon, Total	1.00	1.00								U

LCS Sample ID: **LCS-07262023** Units: **mg/L** Analysis Date: **26-Jul-2023 22:10**
Client ID: Run ID: **TOC_05_442441** SeqNo: **7454180** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Organic Carbon, Total	9.469	1.00	10	0	94.7	85 - 115				

LCSD Sample ID: **LCSD-07262023** Units: **mg/L** Analysis Date: **26-Jul-2023 22:27**
Client ID: Run ID: **TOC_05_442441** SeqNo: **7454181** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Organic Carbon, Total	9.475	1.00	10	0	94.8	85 - 115	9.469	0.0633	20	

MS Sample ID: **HS23070659-02MS** Units: **mg/L** Analysis Date: **26-Jul-2023 23:28**
Client ID: Run ID: **TOC_05_442441** SeqNo: **7455530** PrepDate: DF: **100**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Organic Carbon, Total	997.1	100	1000	74.03	92.3	80 - 120				

The following samples were analyzed in this batch: HS23070658-10

ALS Houston, US Date: 28-Jul-23

Client: Aptim Environmental & Infrastucture, Inc.
Project: LHAAP 16 January 2023
WorkOrder: **HS23070658**

QUALIFIERS, ACRONYMS, UNITS

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
M	Manually integrated, see raw data for justification
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL/SDL

Acronym	Description
DCS	Detectability Check Study
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitaion Limit
SD	Serial Dilution
SDL	Sample Detection Limit
TRRP	Texas Risk Reduction Program

Unit Reported	Description
mg/L	Milligrams per Liter

CERTIFICATIONS,ACCREDITATIONS & LICENSES

Agency	Number	Expire Date
Arkansas	88-00356	27-Mar-2024
California	2919; 2024	30-Apr-2024
Dept of Defense	L23-358	31-May-2025
Florida	E87611-38	30-Jun-2024
Illinois	2000322023-11	30-Jun-2024
Kansas	E-10352; 2022-2023	31-Jul-2023
Louisiana	03087-2023	30-Jun-2024
Maryland	343; 2023-2024	30-Jun-2024
North Carolina	624-2023	31-Dec-2023
North Dakota	R-193 2023-2024	30-Apr-2024
Oklahoma	2022-141	31-Aug-2023
Texas	T104704231-23-31	30-Apr-2024
Utah	TX026932023-14	31-Jul-2024

ALS Houston, US Date: 28-Jul-23

Sample Receipt Checklist

Work Order ID: HS23070658 **Date/Time Received:** 13-Jul-2023 09:30

Client Name: CBI-Houston **Received by:** Paresh M. Giga

Completed By:	/S/ Paresh M. Giga	13-Jul-2023 15:07	**Reviewed by:**	/S/ Nieka.Carson	14-Jul-2023 10:17
	eSignature	Date/Time		eSignature	Date/Time

Matrices: **GW/Water** Carrier name: **FedEx Priority Overnight**

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
VOA/TX1005/TX1006 Solids in hermetically sealed vials?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	1 Page(s)
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	COC IDs:none
Samplers name present on COC?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	

Temperature(s)/Thermometer(s):	2.2C/2.1C U/c	IR31
Cooler(s)/Kit(s):	Blue	
Date/Time sample(s) sent to storage:	7/13/23 15:30	

Water - VOA vials have zero headspace?	Yes ☑	No ☐	No VOA vials submitted ☐
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☑
pH adjusted?	Yes ☐	No ☐	N/A ☑
pH adjusted by:			

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

Corrective Action:

bhate

Page: ____ of ____

Project/Phase

No: JVPCIBH.0001

1608 13th Avenue South, Suite 300
Birmingham Alabama 35205

Chain of Custody and Analytical Request

COC Number(1):

LIMS Number:

Facility/Base I.D.: LHAAP

Project/Site Name: LHAAP / Site 16

Client Name:

Collected by: Scott Beesinger

Field Sample ID (30 Characters Max)	Date Collected (dd-mmm-yyyy)	Time Collected (Military) (hhmm)	Sample Depth (beginning - ending)	SA Code (2)	Sample Number (3)	Sample Matrix (4)	Number of containers	VOC	Dissolved Gases	TOC	Carbon Dioxide	Anions	Perchlorate	Ambient Blank Lot Control Number	Equipment Blank Lot Control Number	Trip Blank Lot Control Number	Cooler ID
16WW55-230712	12Jul2023	0705	-	N		WG	13	X	X	X	X	X	X				
16WW41-230712	12Jul2023	0750	-	N		WG	13	X	X	X	X	X	X				
16WW48-230712	12Jul2023	0835	-	N		WG	11	X	X		X	X	X				
16WW48-230712-FD	12Jul2023	0835	-	FD		WG	11	X	X		X	X	X				
16WW03-230712	12Jul2023	0925	-	N		WG	13	X	X	X	X	X	X				
16WW35-230712	12Jul2023	1015	-	N		WG	13	X	X	X	X	X	X				
16WW36-230712	12Jul2023	1100	-	N		WG	6	X		X			X				
16WW25-230712	12Jul2023	1145	-	N		WG	4	X					X				
16WW26-230712	12Jul2023	1225	-	N		WG	6	X		X			X				
16WW26-230712-FD	12Jul2023	1225	-	FD		WG	6	X		X			X				
TRIP BLANK-230712	12Jul2023		-	TB		W	2	X									

Sample Analysis Requested (5) | Quality Assurance Samples (6)

HS23070658

Aptim Environmental & Infrastucture, Inc.
LHAAP / SITE 16

COMMENTS:

STANDARD TAT

Custody Transfers Prior to Receipt by Laboratory

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1. Scott Beesinger	7/12/23	1330	1.	7/13/23	09:30
2.			2.		
3.			3.		

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab: ____ Shipped No.:

Method of Shipment: ____

____ Fed Ex ____ Airbill Number:

Analytical Lab: ALS 10450 Stanolind Rd. Suite 210 Houston, TX 77099 (281) 530-5656

ATTN: Dana Wagner Lab Recipient: Delivery Date/Time:

1.) Chain of Custody Number = date collected + custody number (e.g. 09-02-1999-01)

2.) Sample Type (SA) Codes: N = Normal Sample, TB = Trip Blank (-c) Sample, FD = Field Duplicate (-a) Samples, FR = Field Replicate (-b) Samples, EB = Equipment Blank (-d) Samples, MS = Matrix Spike, SD = Matrix Spike Duplicate, AB = Ambient Blank (-e)

3.) Sample Number: Unique sample number collected from a particular location per day. (e.g. Groundwater sample collected from MW-1 on 10/10/99 = 01, if sampled again on 10/10/99 = 02, etc.)

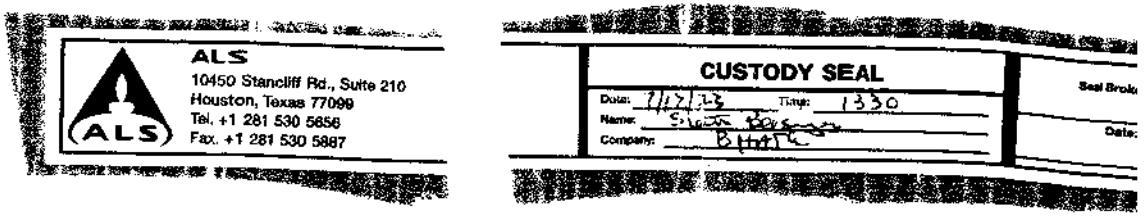
4.) Matrix Codes: GS = Soil Gas, WG = Groundwater, WS = Surface Water, SO = Soil, SE = Sediment, SL = Sludge, SS = Surface Soil Samples, WQ = Aqueous Blank Samples (trip, equipment, ambient, etc), SQ = Soil Blanks

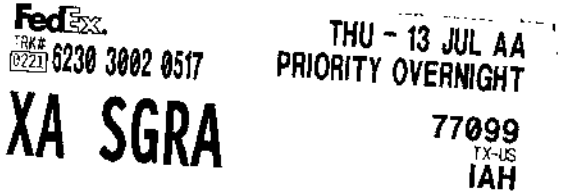
5.) Sample Analysis Requested: Analytical method requested and number of containers provided for each.

6.) Quality assurance samples are assigned by date (ddmmyy) and the sample number associated with the sample (01, 02, etc) (e.g. Equipment blank collected in association with MW-1 on 10/10/99 will be designated 10109901 in the Equipment Blank Lot Control

Bio 5K 2.2 #38.2 cl in cole

ALS


ALS
10450 Stancliff Rd., Suite 210
Houston, Texas 77099
Tel. +1 281 530 5656
Fax. +1 281 530 5887
CUSTODY SEAL
Date: 7/12/13
Time: 1330
Name:
Company:
Seal Broke
Date:


FedEx.
TRK# 0221 6230 3002 0517
XA SGRA
THU - 13 JUL AA
PRIORITY OVERNIGHT
77099
TX-US
IAH

July 24, 2023 Service Request No:E2300641

Bernadette Fini
ALS Laboratory Group
10450 Stancliff Road
Suite 210
Houston, TX 77099-4338

Laboratory Results for: HS23070658

Dear Bernadette,

Enclosed are the results of the sample(s) submitted to our laboratory July 19, 2023
For your reference, these analyses have been assigned our service request number **E2300641.**

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. The test results meet requirements of the current TNI standards, where applicable, and except as noted in the laboratory case narrative provided. All results are intended to be considered in their entirety and ALS Environmental is not responsible for use of less than the complete final report. Results apply only to the items submitted to the laboratory, as received for analysis. In accordance with the current TNI Standard, a statement on the estimated uncertainty of measurement of any quantitative analysis will be supplied upon request.

Please contact me if you have any questions. My extension is 2188. You may also contact me via email at James.Guin@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

James Guin

ADDRESS 10450 Stancliff Rd., Suite 210, Houston, TX 77099
PHONE +1 281 530 5656 | FAX +1 281 530 5887
ALS Group USA, Corp.
dba ALS Environmental

Certificate of Analysis

ALS Environmental - Houston Specialties Laboratory
10450 Stancliff Rd., Suite 210, Houston TX 77099
Phone (281)530-5656 Fax (281)530-5887
www.alsglobal.com

ALS Environmental

Client:	ALS Environmental – US	**Service Request No.:**	E2300641
Project:	HS23070658	**Date Received:**	07/19/2023
Sample Matrix:	Ground Water		

CASE NARRATIVE

All analyses were performed in adherence to the quality assurance program of ALS Environmental. This report contains analytical results for samples designated for Tier II. When appropriate to the method, method blank results have been reported with each analytical test.

Sample Receipt

Ten samples were received for analysis at ALS Environmental in Houston on 07/19/2023.

The sample were received in good condition and is consistent with the accompanying chain of custody form. The samples were stored in a refrigerator at 4°C upon receipt at the laboratory.

Data Validation Notes and Discussion

Precision and Accuracy:

EQ2300351: Laboratory Control Spike/Duplicate Laboratory Control Spike (LCS/DLCS) samples were analyzed and reported in lieu of MS/MSD for this extraction batch.

The results of analyses are given in the attached laboratory report. All results are intended to be considered in their entirety, and ALS Environmental (ALS) is not responsible for utilization of less than the complete report.

Use of ALS group USA Corp dba ALS Environmental (ALS)'s Name. Client shall not use ALS's name or trademark in any marketing or reporting materials, press releases or in any other manner ("Materials") whatsoever and shall not attribute to ALS any test result, tolerance or specification derived from ALS's data ("Attribution") without ALS's prior written consent, which may be withheld by ALS for any reason in its sole discretion. To request ALS's consent, Client shall provide copies of the proposed Materials or Attribution and describe in writing Client's proposed use of such Materials or Attribution. If ALS has not provided written approval of the Materials or Attribution within ten (10) days of receipt from Client, Client's request to use ALS's name or trademark in any Materials or Attribution shall be deemed denied. ALS may, in its discretion, reasonably charge Client for its time in reviewing Materials or Attribution requests. Client acknowledges and agrees that the unauthorized use of ALS's name or trademark may cause ALS to incur irreparable harm for which the recovery of money damages will be inadequate. Accordingly, Client acknowledges and agrees that a violation shall justify preliminary injunctive relief. For questions contact the laboratory.

Client: ALS Environmental - US **Service Request:**E2300641
Project: HS23070658

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
E2300641-001	16WW55-230712	7/12/2023	0705
E2300641-002	16WW41-230712	7/12/2023	0705
E2300641-003	16WW48-230712	7/12/2023	0705
E2300641-004	16WW48-230712-FD	7/12/2023	0705
E2300641-005	16EW03-230712	7/12/2023	0705
E2300641-006	16WW35-230712	7/12/2023	0705
E2300641-007	16WW36-230712	7/12/2023	0705
E2300641-008	16WW25-230712	7/12/2023	0705
E2300641-009	16WW26-230712	7/12/2023	0705
E2300641-010	16WW66-230712-FD	7/12/2023	0705

Service Request Summary

Folder #: **E2300641**
Client Name: ALS Environmental - US
Project Name: HS23070658
Project Number:

Report To: Bernadette Fini
ALS Laboratory Group
10450 Stancliff Road
Houston, TX 77099-4338
USA
Phone Number: 281-530-5656
Cell Number:
Fax Number: 281-530-5887
E-mail: bernadette.fini@alsglobal.com

Project Chemist: James Guin
Originating Lab: HOUSTON
Logged By: XMI
Date Received: 07/19/23
Internal Due Date: 7/27/2023
QAP: LAB QAP
Qualifier Set: Lab Standard
Formset: Lab Standard
Merged?: Y
Report to MDL?: Y
P.O. Number: HS23070658
EDD: No EDD Specified

10 120 mL-Plastic Bottle Natural WM Unpreserved
Location: SUBBED
Pressure Gas:

Lab Samp No.	Client Samp No	Matrix	Collected	HOUSTON ClO4 DOD/6850
E2300641-001	16WW55-230712	Ground Water	07/12/23 0705	**IV**
E2300641-002	16WW41-230712	Ground Water	07/12/23 0705	**IV**
E2300641-003	16WW48-230712	Ground Water	07/12/23 0705	**IV**
E2300641-004	16WW48-230712-FD	Ground Water	07/12/23 0705	**IV**
E2300641-005	16EW03-230712	Ground Water	07/12/23 0705	**IV**
E2300641-006	16WW35-230712	Ground Water	07/12/23 0705	**IV**
E2300641-007	16WW36-230712	Ground Water	07/12/23 0705	**IV**
E2300641-008	16WW25-230712	Ground Water	07/12/23 0705	**IV**
E2300641-009	16WW26-230712	Ground Water	07/12/23 0705	**IV**
E2300641-010	16WW66-230712-FD	Ground Water	07/12/23 0705	**IV**

Service Request Summary

Folder #: **E2300641**
Client Name: ALS Environmental - US
Project Name: HS23070658
Project Number:

Report To: Bernadette Fini
ALS Laboratory Group
10450 Stancliff Road
Houston, TX 77099-4338
USA
Phone Number: 281-530-5656
Cell Number:
Fax Number: 281-530-5887
E-mail: bernadette.fini@alsglobal.com

Project Chemist: James Guin
Originating Lab: HOUSTON
Logged By: XMI
Date Received: 07/19/23
Internal Due Date: 7/27/2023
QAP: LAB QAP
Qualifier Set: Lab Standard
Formset: Lab Standard
Merged?: Y
Report to MDL?: Y
P.O. Number: HS23070658
EDD: No EDD Specified

10 120 mL-Plastic Bottle Natural WM Unpreserved
Location: SUBBED
Pressure Gas:

Data Qualifiers

Lab Standard

+	Possible Tedlar bag artifact.
A	TIC is a suspected aldol-condensation product
B	Analyte found in the associated method blank as well as in the sample.
BC	Reported results are not blank corrected.
BH	The back section of the tube yielded higher results than the front.
BT	Results indicated possible breakthrough; back section >=10% front section.
C	Result identification confirmed.
D	Compound identified in an analysis at a secondary dilution factor
D	Spike was diluted out
DE	Reported results are corrected for desorption efficiency.
E	Estimated value. Concentration above calibration range
E	The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
F	The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
H	The chromatographic fingerprint of the sample resembles a petroleum product but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
H1	Sample analysis performed past holding time. See case narrative.
H2	Initial analysis within holding time. Reanalysis for the required dilution was past holding time.
H3	Sample was received and analyzed past holding time.
H4	Sample was extracted past required extraction holding time, but analyzed within analysis holding time. See case narrative.
I	(Auto) The reference ion ratio was outside acceptance criteria, which may indicate a potential bias to this result.
I	Internal standard not within the specified limits. See case narrative.
I	The reference ion ratio was outside acceptance criteria, which may indicate a potential bias to this result.
J	Estimated Value. Concentration found below MRL.
K	A deflection in the QC ion may indicate interference with the quantitation of this ion. The concentration of this analyte should be considered as an estimate.
K	Analyte was detected above the method reporting limit prior to normalization.
K	The reference ion ratio was outside acceptance criteria, which may indicate a potential bias to this result.
L	The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
L1	Laboratory control sample recovery outside the specified limits; results may be biased high.
L2	Laboratory control sample recovery outside the specified limits; results may be biased low.
L3	Laboratory control sample recovery outside the specified limits.
M	Matrix interference; results may be biased high.
M	The duplicate injection precision not met.

Data Qualifiers

Lab Standard

M1	Matrix interference due to coelution with a non-target compound; results may be biased high.
N	Presumptive evidence of a compound for TICs that have been identified based on a mass spectral library search.
N	The Matrix Spike sample recovery is not within control limits. See case narrative.
O	The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
P	Indicates chlorodiphenyl ether interference present at the retention time of the target compound.
P	Pesticide/Aroclor target analyte > 40% difference for detected concentrations between GC columns
Q	Indicates as estimated value because the P and P + 2 theoretical abundance ratio does not meet method criteria.
R	Duplicate Precision not met.
R1	Duplicate precision not within the specified limits; however, the results are below the MRL and considered estimated.
S	Surrogate recovery not within specified limits.
S	The reported value was determined by the Method of Standard Additions (MSA).
T	Analyte is a tentatively identified compound, result is estimated.
U	Compound was analyzed for, but was not detected (ND).
V1	The continuing calibration verification standard was outside (biased high) the specified limits for this compound.
V2	The continuing calibration verification standard was outside (biased low) the specified limits for this compound.
W	Result quantified, but the corresponding peak was detected outside the generated retention time window.
W	The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
X	See case narrative.
Y	Recovery outside limits
Y	The chromatogram resembles a petroleum product but does not match the calibration standard.
Z	The chromatogram does not resemble a petroleum product.
i	The MRL/MDL has been elevated due to a matrix interference.

ALS Laboratory Group

Acronyms

Cal	Calibration
Conc	CONCentration
Dioxin(s)	Polychlorinated dibenzo-p-dioxin(s)
EDL	Estimated Detection Limit
EMPC	Estimated Maximum Possible Concentration
Flags	Data qualifiers
Furan(s)	Polychlorinated dibenzofuran(s)
g	Grams
ICAL	Initial CALibration
ID	IDentifier
Ions	Masses monitored for the analyte during data acquisition
L	Liter (s)
LCS	Laboratory Control Sample
DLCS	Duplicate Laboratory Control Sample
MB	Method Blank
MCL	Method Calibration Limit
MDL	Method Detection Limit
mL	Milliliters
MS	Matrix Spiked sample
DMS	Duplicate Matrix Spiked sample
NO	Number of peaks meeting all identification criteria
PCDD(s)	Polychlorinated dibenzo-p-dioxin(s)
PCDF(s)	Polychlorinated dibenzofuran(s)
ppb	Parts per billion
ppm	Parts per million
ppq	Parts per quadrillion
ppt	Parts per trillion
QA	Quality Assurance
QC	Quality Control
Ratio	Ratio of areas from monitored ions for an analyte
% Rec.	Percent recovery
RPD	Relative Percent Difference
RRF	Relative Response Factor
RT	Retention Time
SDG	Sample Delivery Group
S/N	Signal-to-noise ratio
TEF	Toxicity Equivalence Factor
TEQ	Toxicity Equivalence Quotient

10450 Stancliff Rd, Houston, TX 77099 | 281-530-5656 | www.alsglobal.com

ALS Environmental

State Certifications, Accreditations, and Licenses

Agency	Number	Expire Date
Arizona Department of Health Services	AZ0793_2024	5/27/2024
Arkansas Department of Environmental Quality	88-00356	3/27/2024
California State Environmental Laboratory Accreditation Program	2919	4/30/2024
Department of Defense	L22-90	3/31/2024
Department of Defense	L23-358	5/31/2025
Florida Department of Health	E87611-38	6/30/2024
Illinois Environmental Protection Agency	2000322023-11	6/30/2024
Kansas Department of Health and Environment	E-10352 2022-2023	7/31/2023
Louisiana Department of Environmental Quality	03087-2023	6/30/2024
Louisiana Department of Health and Hospitals	LA028-2023	12/31/2023
Maine Department of Health and Human Services	2022017	6/5/2024
Maryland Department of the Environment	343	7/31/2023
Michigan Depratment of Environmental Quality	9971-2023	4/30/2024
Minnesota Department of Health	2368363	12/31/2023
Nebraska Department of Health and Human Services	NE-OS-25-13	4/30/2024
Nevada Department of Conservation and Natural Resources	TX026932023-1	7/31/2023
New Hampshire Environmental Laboratory Accreditation Program	209423	4/24/2024
New Jersey Department of Environmental Protection	TX008-2024	6/30/2024
New York Department of Health	11707	3/31/2024
Oklahoma Department of Environmental Quality	2022-141	8/31/2023
Pennsylvania Department of Environmental Protection	68-03441-017	6/30/2024
Perry Johnson Laboratory Accreditation	L22-91	3/31/2024
Tennessee Department of Environment and Concervation	TN04016-2023	4/30/2024
Texas Commision on Environmental Quality	T104704231-23-30	4/30/2024
Utah Department of Health Environmental Laboratory Certification	TX026932022-13	7/31/2023
Washington Department of Ecology	C819-22	11/14/2023

ALS

Chain of Custody

ALS Environmental - Houston Specialties Laboratory
10450 Stancliff Rd., Suite 210, Houston TX 77099
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Subcontract Chain of Custody

E2300641

SAMPLING STATE: Dept of Defense

COC ID: 22372 5

E2300641
ALS Laboratory Group
HS23070658

SUBCONTRACT TO:

ALS Environmental
10450 Stancliff RoadSuite 210
Houston, TX 77084

Phone: +1 281 530 5656

CUSTOMER INFORMATION:

Company:	ALS Houston
Contact:	James Guin
Address:	10450 Stancliff Rd, Ste 210
Phone:	+1 281 530 5656
Email:	James.Guin@alsglobal.com
Alternate Contact:	Jumoke M. Lawal
Email:	jumoke.lawal@alsglobal.com

INVOICE INFORMATION:

Company:	ALS Houston
Contact:	Accounts Payable
Address:	10450 Stancliff Rd, Ste 210
Phone:	+1 281 530 5656
Reference:	HS23070658
TSR:	Ron Martino

	LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	COLLECT DATE
	ANALYSIS REQUESTED			DUE DATE
1.	**HS23070658-01**	**16WW55-230712**	**Groundwater**	**12 Jul 2023 07:05**
	6850 Perchlorate; separte Level II & Level IV PDF; EQUIS EDD LHAAP			27 Jul 2023
2.	**HS23070658-02**	**16WW41-230712**	**Groundwater**	**12 Jul 2023 07:50**
	6850 Perchlorate; separte Level II & Level IV PDF; EQUIS EDD LHAAP			27 Jul 2023
3.	**HS23070658-03**	**16WW48-230712**	**Groundwater**	**12 Jul 2023 08:35**
	6850 Perchlorate; separte Level II & Level IV PDF; EQUIS EDD LHAAP			27 Jul 2023
4.	**HS23070658-04**	**16WW48-230712-FD**	**Groundwater**	**12 Jul 2023 08:35**
	6850 Perchlorate; separte Level II & Level IV PDF; EQUIS EDD LHAAP			27 Jul 2023
5.	**HS23070658-05**	**16EW03-230712**	**Groundwater**	**12 Jul 2023 09:25**
	6850 Perchlorate; separte Level II & Level IV PDF; EQUIS EDD LHAAP			27 Jul 2023
6.	**HS23070658-06**	**16WW35-230712**	**Groundwater**	**12 Jul 2023 10:15**
	6850 Perchlorate; separte Level II & Level IV PDF; EQUIS EDD LHAAP			27 Jul 2023
7.	**HS23070658-07**	**16WW36-230712**	**Groundwater**	**12 Jul 2023 11:00**
	Level II and Level IV reports on a seperate pdf. Send WOA to Vicki Graves.			27 Jul 2023
8.	**HS23070658-08**	**16WW25-230712**	**Groundwater**	**12 Jul 2023 11:45**

Subcontract Chain of Custody

SAMPLING STATE: **Dept of Defense** **COC ID: 22372**

	LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	COLLECT DATE
	ANALYSIS REQUESTED			DUE DATE
	Level II and Level IV reports on a seperate pdf. Send WOA to Vicki Graves.			27 Jul 2023
9.	**HS23070658-09**	**16WW26-230712**	**Groundwater**	**12 Jul 2023 12:25**
	Level II and Level IV reports on a seperate pdf. Send WOA to Vicki Graves.			27 Jul 2023
10.	**HS23070658-10**	**16WW66-230712-FD**	**Groundwater**	**12 Jul 2023 12:25**
	Level II and Level IV reports on a seperate pdf. Send WOA to Vicki Graves.			27 Jul 2023

Comments: Please analyze for the analysis listed above.
Send report to the emails shown above.

QC Level: DOD IV (DoD Data Package)

Relinquished By: _____ Date/Time: _____

Received By: _____ Date/Time: 7.19.23 1410

Cooler ID(s): _____ Temperature(s): _____

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Client: ALS Date: 7-19-23 WO#:

Time Received: 1400 Received by: CG BO#:

Matrices: Solid/Sludge Water Oil Wipes Hydrocarbon Liquid Other

Kit ID/Cooler ID	Trip Blank ID	Cooler Temp (C) Observed/Corrected	IR #	Temp BLI Present?
—		4.1 / 4.0	31	Y N
		/		Y N
		/		Y N
		/		Y N
		/		Y N

Delivery Method: FedEx UPS Greyhound ALS Client Other

Date/Time of Unpacking: 7-19-23 Unpacked by: CG

Shipping container/cooler in good condition?	~~Yes~~	No	Not Present
Custody seals intact on shipping container/cooler?	Yes	No	~~Not Present~~
Custody seals intact on sample bottles?	Yes	No	~~Not Present~~
Chain of Custody present?	~~Yes~~	No	
Chain of Custody signed when relinquished and received?	~~Yes~~	No	
Chain of Custody – Sampler's name present?	Yes	~~No~~	
Chain of Custody agrees with sample labels?	~~Yes~~	No	
Samples in proper container/bottle?	~~Yes~~	No	
VOA/TX1005/1006 Solids in hermetically Sealed Vials:	Yes	No	No VOA/TX1005/1006 Solid
Sample containers intact?	~~Yes~~	No	
Sufficient sample volume for indicated test?	~~Yes~~	No	
All samples received within holding time?	~~Yes~~	No	
Container/Temp Blank temperature in compliance?	~~Yes~~	No	
Water - VOA vials have zero headspace?	Yes	No	N/A ~~No VOA submitted~~
Non-VOA waters preserved with HCl, H2SO4, HNO3 are pH <2?			Yes No N/A
Waters preserved with NaOH/Ascorbic acid are pH>12?	Yes	No	~~N/A~~
pH adjusted?	Yes*	No	~~N/A~~ *See Preservation Logbook

pH adjusted by: _____ **pH Paper Lot:** _____

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SAMPLE ACCEPTANCE POLICY

This policy outlines the criteria samples must meet to be accepted by ALS Environmental – Houston HRMS.

Cooler Custody Seals (desirable, mandatory if specified in SAP):

- ✓ Intact on outside of cooler, signed and dated

Chain-of-Custody (COC) documentation (mandatory):

The following is required on each COC:

- ✓ Sample ID, the location, date and time of collection, collector's name, preservation type, sample type, and any other special remarks concerning the sampleThe COC must be completed in ink.
- ✓ Signature and date of relinquishing party.

In the absence of a COC at sample receipt, the COC will be requested from the client.

Sample Integrity (mandatory):

Samples are inspected upon arrival to ensure that sample integrity was not compromised during transfer to the laboratory.

- ✓ Sample containers must arrive in good condition (not broken or leaking).
- ✓ Samples must be labeled appropriately, including Sample IDs, and requested test using durable labels and indelible ink.
- ✓ The correct type of sample bottle must be used for the method requested.
- ✓ An appropriate sample volume, or weight, must be received.
- ✓ Sample IDs and number of containers must reconcile with the COC.
- ✓ Samples must be received within the method defined holding time.

Temperature Requirement (varies by sample matrix):

- ✓ Aqueous and Non-aqueous samples must be shipped and stored cold, at 0 to 6ºC.
- ✓ Tissue samples must be shipped and stored frozen, at -20 to -10ºC.
- ✓ Air samples are shipped and stored cold, at 0 to 6ºC
- ✓ The sample temperature must be recorded on the COC

All cooler inspections are documented on the Cooler Receipt Form (CRF). A separate CRF is completed for each service request. Any samples not meeting the above criteria are noted on the CRF and the Project Manager notified. The Project Manager must resolve any sample integrity issues with the client prior to proceeding with the analysis. Such resolutions are documented in writing and filed with the project folder. Data associated with samples received outside of this acceptance policy will be qualified on the case narrative of the final report

Preparation Information Benchsheets

ALS Environmental - Houston Specialties Laboratory
10450 Stancliff Rd., Suite 210, Houston TX 77099
Phone (281)530-5656 Fax (281)530-5887
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Preparation Information Benchsheet

Prep Run#: 423453 **Prep WorkFlow:** GenExt28Day **Status:** Prepped
Team: Semivoa GCMS/XMI **Prep Method:** Method **Prep Date/Time:** 7/20/23 10:26

#	Lab Code	Client ID	B#	Method /Test	pH	Cl	Matrix	Amt. Ext.	Sample Description
1	E2300640-001	16WW58-230711	.01	6850/ClO4 DOD			Ground Water	10mL	
2	E2300640-002	16WW57-230711	.01	6850/ClO4 DOD			Ground Water	10mL	
3	E2300640-003	16WW16-230711	.01	6850/ClO4 DOD			Ground Water	10mL	
4	E2300640-004	16WW34-230711	.01	6850/ClO4 DOD			Ground Water	10mL	
5	E2300640-005	16WW33-230711	.01	6850/ClO4 DOD			Ground Water	10mL	
6	E2300640-006	16WW32-230711	.01	6850/ClO4 DOD			Ground Water	10mL	
7	E2300640-007	16WW31-230711	.01	6850/ClO4 DOD			Ground Water	10mL	
8	E2300640-008	16WW56-230711	.01	6850/ClO4 DOD			Ground Water	10mL	
9	E2300641-001	16WW55-230712	.01	6850/ClO4 DOD			Ground Water	10mL	
10	E2300641-002	16WW41-230712	.01	6850/ClO4 DOD			Ground Water	10mL	
11	E2300641-003	16WW48-230712	.01	6850/ClO4 DOD			Ground Water	10mL	
12	E2300641-004	16WW48-230712-FD	.01	6850/ClO4 DOD			Ground Water	10mL	
13	E2300641-005	16EW03-230712	.01	6850/ClO4 DOD			Ground Water	10mL	
14	E2300641-006	16WW35-230712	.01	6850/ClO4 DOD			Ground Water	10mL	
15	E2300641-007	16WW36-230712	.01	6850/ClO4 DOD			Ground Water	10mL	
16	E2300641-008	16WW25-230712	.01	6850/ClO4 DOD			Ground Water	10mL	
17	E2300641-009	16WW26-230712	.01	6850/ClO4 DOD			Ground Water	10mL	
18	E2300641-010	16WW66-230712-FD	.01	6850/ClO4 DOD			Ground Water	10mL	
19	EQ2300351-01	MB		6850/ClO4 DOD			Liquid	10mL	
20	EQ2300351-02	LCS		6850/ClO4 DOD			Liquid	10mL	
21	EQ2300351-03	DLCS		6850/ClO4 DOD			Liquid	10mL	
22	EQ2300351-04	16WW16-230711 MS	.01	6850/ClO4 DOD			Liquid	10mL	
23	EQ2300351-05	16WW16-230711 DMS	.01	6850/ClO4 DOD			Liquid	10mL	

Spiking Solutions

Name: Perchlorate Intermediate Stock1 Inventory ID 227236 Logbook Ref: Perchlorate (1st Source) Expires On: 07/31/2023

EQ2300351-02 1.00µL EQ2300351-03 1.00µL EQ2300351-04 1.00µL EQ2300351-05 1.00µL

Name: Perchlorate Internal Standard 1ug/mL Inventory ID 227244 Logbook Ref: Perchlorate Internal Standard Expires On: 07/31/2023

E2300640-001	100.00µL	E2300640-002	100.00µL	E2300640-003	100.00µL	E2300640-004	100.00µL	E2300640-005	100.00µL	E2300640-006	100.00µL
E2300640-007	100.00µL	E2300640-008	100.00µL	E2300641-001	100.00µL	E2300641-002	100.00µL	E2300641-003	100.00µL	E2300641-004	100.00µL
E2300641-005	100.00µL	E2300641-006	100.00µL	E2300641-007	100.00µL	E2300641-008	100.00µL	E2300641-009	100.00µL	E2300641-010	100.00µL
EQ2300351-01	100.00µL	EQ2300351-02	100.00µL	EQ2300351-03	100.00µL	EQ2300351-04	100.00µL	EQ2300351-05	100.00µL		

Preparation Information Benchsheet

Prep Run#: 423453 **Prep WorkFlow:** GenExt28Day **Status:** Prepped
Team: Semivoa GCMS/XMI **Prep Method:** Method **Prep Date/Time:** 7/20/23 10:26

Preparation Materials

Water HPLC Grade	HPLC water 5/18/23CG (229315)	6850 Amber Glass screw vial	2mL Screw Top Vial (221894)	6850 0.45um syringe filters	6850 0.45 SYRING FILTER (229979)
6850 Luer-Lok Syringes	luer-lock syringes (228116)				

Preparation Steps

Step: Preparation
Started: 7/20/23 10:26
Finished: 7/20/23 11:30
By: XMI
Comments

Comments: _____

Reviewed By: _____ Date: _____

Chain of Custody

Relinquished By: _____ Date: _____ Extracts Examined

Received By: _____ Date: _____ Yes No

Analytical Results

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ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300641
Project:	HS23070658	**Date Collected:**	7/12/23 0705
Sample Matrix:	Ground Water	**Date Received:**	7/19/23
Sample Name:	16WW55-230712	**Units:**	µg/L
Lab Code:	E2300641-001	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	**45.9**		0.100	0.0500	0.0250	1	7/20/23	7/21/23 14:37	423453	811523	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300641
Project:	HS23070658	**Date Collected:**	7/12/23 0705
Sample Matrix:	Ground Water	**Date Received:**	7/19/23
Sample Name:	16WW41-230712	**Units:**	µg/L
Lab Code:	E2300641-002	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	**52.5**		0.200	0.100	0.0500	2	7/20/23	7/21/23 15:50	423453	811523	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300641
Project:	HS23070658	**Date Collected:**	7/12/23 0705
Sample Matrix:	Ground Water	**Date Received:**	7/19/23
Sample Name:	16WW48-230712	**Units:**	µg/L
Lab Code:	E2300641-003	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	**1.20**		0.100	0.0500	0.0250	1	7/20/23	7/21/23 14:48	423453	811523	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300641
Project:	HS23070658	**Date Collected:**	7/12/23 0705
Sample Matrix:	Ground Water	**Date Received:**	7/19/23
Sample Name:	16WW48-230712-FD	**Units:**	µg/L
Lab Code:	E2300641-004	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	**1.27**		0.100	0.0500	0.0250	1	7/20/23	7/21/23 15:39	423453	811523	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300641
Project:	HS23070658	**Date Collected:**	7/12/23 0705
Sample Matrix:	Ground Water	**Date Received:**	7/19/23
Sample Name:	16EW03-230712	**Units:**	µg/L
Lab Code:	E2300641-005	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	ND	U	0.100	0.0500	0.0250	1	7/20/23	7/21/23 15:55	423453	811523	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300641
Project:	HS23070658	**Date Collected:**	7/12/23 0705
Sample Matrix:	Ground Water	**Date Received:**	7/19/23
Sample Name:	16WW35-230712	**Units:**	µg/L
Lab Code:	E2300641-006	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	**478**		2.00	1.00	0.500	20	7/20/23	7/21/23 16:01	423453	811523	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300641
Project:	HS23070658	**Date Collected:**	7/12/23 0705
Sample Matrix:	Ground Water	**Date Received:**	7/19/23
Sample Name:	16WW36-230712	**Units:**	µg/L
Lab Code:	E2300641-007	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	ND	U	0.100	0.0500	0.0250	1	7/20/23	7/21/23 16:06	423453	811523	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300641
Project:	HS23070658	**Date Collected:**	7/12/23 0705
Sample Matrix:	Ground Water	**Date Received:**	7/19/23
Sample Name:	16WW25-230712	**Units:**	µg/L
Lab Code:	E2300641-008	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	ND	U	0.100	0.0500	0.0250	1	7/20/23	7/21/23 16:12	423453	811523	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300641
Project:	HS23070658	**Date Collected:**	7/12/23 0705
Sample Matrix:	Ground Water	**Date Received:**	7/19/23
Sample Name:	16WW26-230712	**Units:**	µg/L
Lab Code:	E2300641-009	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	ND	U	0.100	0.0500	0.0250	1	7/20/23	7/21/23 16:17	423453	811523	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300641
Project:	HS23070658	**Date Collected:**	7/12/23 0705
Sample Matrix:	Ground Water	**Date Received:**	7/19/23
Sample Name:	16WW66-230712-FD	**Units:**	µg/L
Lab Code:	E2300641-010	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	ND	U	0.100	0.0500	0.0250	1	7/20/23	7/21/23 16:23	423453	811523	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300641
Project:	HS23070658	**Date Collected:**	NA
Sample Matrix:	Ground Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	µg/L
Lab Code:	EQ2300351-01	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	ND	U	0.100	0.0500	0.0250	1	7/20/23	7/21/23 13:14	423453	811523	

Accuracy & Precision

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ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client:	ALS Environmental - US	**Service Request:**	E2300641
Project:	HS23070658	**Date Analyzed:**	7/21/23
Sample Matrix:	Ground Water		

Lab Control Sample Summary

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method:	6850	**Units:**	µg/L
Prep Method:	Method	**Basis:**	NA
		Extraction Lot:	423453

	Lab Control Sample EQ2300351-02			Duplicate Lab Control Sample EQ2300351-03					
Analyte Name	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Perchlorate	0.0922	0.100	92	0.0959	0.100	96	84 - 119	4	15

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300641
Project:	HS23070658	**Date Collected:**	NA
Sample Matrix:	Ground Water	**Date Received:**	NA
Sample Name:	Lab Control Sample	**Units:**	µg/L
Lab Code:	EQ2300351-02	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	**0.0922**	J	0.100	0.0500	0.0250	1	7/20/23	7/21/23 13:20	423453	811523	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300641
Project:	HS23070658	**Date Collected:**	NA
Sample Matrix:	Ground Water	**Date Received:**	NA
Sample Name:	Duplicate Lab Control Sample	**Units:**	µg/L
Lab Code:	EQ2300351-03	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	**0.0959**	J	0.100	0.0500	0.0250	1	7/20/23	7/21/23 13:25	423453	811523	

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ANALYTICAL REPORT

PREPARED FOR

Attn: Jumoke Lawal
ALS Group USA, Corp
10450 Stancliff Rd.
Suite 210
Houston TX 77099

Generated 7/19/2023 4:52 PM

JOB DESCRIPTION

HS23070658

JOB NUMBER

410-134801-1

Eurofins Lancaster Laboratories Environment Testing, LLC
2425 New Holland Pike
Lancaster PA 17601

See page two for job notes and contact information.

myEOL

Eurofins Lancaster Laboratories Environment Testing, LLC

Job Notes

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Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization

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7/19/2023 4:52 PM

Authorized for release by
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Eurofins Lancaster Laboratories Environment Testing, LLC

Compliance Statement

Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments.
· QC results that exceed the upper limits and are associated with non-detect samples are qualified but further narration is not required since the bias is high and does not change a non-detect result. Further narration is also not required with QC blank detection when the associated sample concentration is non-detect or more than ten times the level in the blank.
· Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD is performed, unless otherwise specified in the method.
· Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.
Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Measurement uncertainty values, as applicable, are available upon request.

Test results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" and tested in the laboratory are not performed within 15 minutes of collection.

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Definitions/Glossary

Client: ALS Group USA, Corp
Project/Site: HS23070658

Job ID: 410-134801-1

Qualifiers

GC VOA

Qualifier	Qualifier Description
M	Manual integrated compound.
U	Undetected at the Limit of Detection.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job Narrative
410-134801-1

Receipt
The samples were received on 7/14/2023 9:52 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.8°C

GC VOA
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Detection Summary

Client: ALS Group USA, Corp
Project/Site: HS23070658

Job ID: 410-134801-1

Client Sample ID: 16WW55-230712 — Lab Sample ID: 410-134801-1

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Carbon dioxide	120000		12000		2600	ug/L	1		RSK-175	Total/NA

Client Sample ID: 16WW41-230712 — Lab Sample ID: 410-134801-2

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Carbon dioxide	220000	M	12000		2600	ug/L	1		RSK-175	Total/NA

Client Sample ID: 16WW48-230712 — Lab Sample ID: 410-134801-3

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Carbon dioxide	220000	M	12000		2600	ug/L	1		RSK-175	Total/NA

Client Sample ID: 16WW48-230712-FD — Lab Sample ID: 410-134801-4

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Carbon dioxide	220000	M	12000		2600	ug/L	1		RSK-175	Total/NA

Client Sample ID: 16EW03-230712 — Lab Sample ID: 410-134801-5

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Carbon dioxide	220000	M	12000		2600	ug/L	1		RSK-175	Total/NA

Client Sample ID: 16WW35-230712 — Lab Sample ID: 410-134801-6

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Carbon dioxide	190000	M	12000		2600	ug/L	1		RSK-175	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: ALS Group USA, Corp
Project/Site: HS23070658

Job ID: 410-134801-1

Client Sample ID: 16WW55-230712
Lab Sample ID: 410-134801-1
Date Collected: 07/12/23 07:05
Matrix: Water
Date Received: 07/14/23 09:52

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Carbon dioxide	120000		12000		2600	ug/L		07/18/23 18:08	1

Client Sample ID: 16WW41-230712
Lab Sample ID: 410-134801-2
Date Collected: 07/12/23 07:50
Matrix: Water
Date Received: 07/14/23 09:52

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Carbon dioxide	220000	M	12000		2600	ug/L		07/18/23 18:16	1

Client Sample ID: 16WW48-230712
Lab Sample ID: 410-134801-3
Date Collected: 07/12/23 08:35
Matrix: Water
Date Received: 07/14/23 09:52

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Carbon dioxide	220000	M	12000		2600	ug/L		07/18/23 18:24	1

Client Sample ID: 16WW48-230712-FD
Lab Sample ID: 410-134801-4
Date Collected: 07/12/23 08:35
Matrix: Water
Date Received: 07/14/23 09:52

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Carbon dioxide	220000	M	12000		2600	ug/L		07/18/23 18:32	1

Client Sample ID: 16EW03-230712
Lab Sample ID: 410-134801-5
Date Collected: 07/12/23 09:25
Matrix: Water
Date Received: 07/14/23 09:52

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Carbon dioxide	220000	M	12000		2600	ug/L		07/18/23 18:41	1

Client Sample ID: 16WW35-230712
Lab Sample ID: 410-134801-6
Date Collected: 07/12/23 10:15
Matrix: Water
Date Received: 07/14/23 09:52

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Carbon dioxide	190000	M	12000		2600	ug/L		07/18/23 18:49	1

Default Detection Limits

Client: ALS Group USA, Corp
Project/Site: HS23070658

Job ID: 410-134801-1

Method: RSK-175 - Dissolved Gases (GC)

Prep: RSK-175

Analyte	LOQ	DL	Units
Carbon dioxide	12000	2600	ug/L

QC Sample Results

Client: ALS Group USA, Corp
Project/Site: HS23070658

Job ID: 410-134801-1

Method: RSK-175 - Dissolved Gases (GC)

Lab Sample ID: MB 410-398043/1-A
Matrix: Water
Analysis Batch: 397918

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 398043

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Carbon dioxide	2600	U M	12000		2600	ug/L		07/18/23 11:02	1

Lab Sample ID: LCS 410-398043/2-A
Matrix: Water
Analysis Batch: 397918

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 398043

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Carbon dioxide			35800	37600		ug/L		105	80 - 122		

Lab Sample ID: LCSD 410-398043/3-A
Matrix: Water
Analysis Batch: 397918

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 398043

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Carbon dioxide			35800	37400		ug/L		104	80 - 122	1	20

QC Association Summary

Client: ALS Group USA, Corp
Project/Site: HS23070658

Job ID: 410-134801-1

GC VOA

Analysis Batch: 397918

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-134801-1	16WW55-230712	Total/NA	Water	RSK-175	398043
410-134801-2	16WW41-230712	Total/NA	Water	RSK-175	398043
410-134801-3	16WW48-230712	Total/NA	Water	RSK-175	398043
410-134801-4	16WW48-230712-FD	Total/NA	Water	RSK-175	398043
410-134801-5	16EW03-230712	Total/NA	Water	RSK-175	398043
410-134801-6	16WW35-230712	Total/NA	Water	RSK-175	398043
MB 410-398043/1-A	Method Blank	Total/NA	Water	RSK-175	398043
LCS 410-398043/2-A	Lab Control Sample	Total/NA	Water	RSK-175	398043
LCSD 410-398043/3-A	Lab Control Sample Dup	Total/NA	Water	RSK-175	398043

Prep Batch: 398043

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-134801-1	16WW55-230712	Total/NA	Water	RSK-175	
410-134801-2	16WW41-230712	Total/NA	Water	RSK-175	
410-134801-3	16WW48-230712	Total/NA	Water	RSK-175	
410-134801-4	16WW48-230712-FD	Total/NA	Water	RSK-175	
410-134801-5	16EW03-230712	Total/NA	Water	RSK-175	
410-134801-6	16WW35-230712	Total/NA	Water	RSK-175	
MB 410-398043/1-A	Method Blank	Total/NA	Water	RSK-175	
LCS 410-398043/2-A	Lab Control Sample	Total/NA	Water	RSK-175	
LCSD 410-398043/3-A	Lab Control Sample Dup	Total/NA	Water	RSK-175	

Lab Chronicle

Client: ALS Group USA, Corp
Project/Site: HS23070658

Job ID: 410-134801-1

Client Sample ID: 16WW55-230712
Lab Sample ID: 410-134801-1
Date Collected: 07/12/23 07:05
Matrix: Water
Date Received: 07/14/23 09:52

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	RSK-175			398043	HQR6	ELLE	07/18/23 11:00
Total/NA	Analysis	RSK-175		1	397918	LXF2	ELLE	07/18/23 18:08

Client Sample ID: 16WW41-230712
Lab Sample ID: 410-134801-2
Date Collected: 07/12/23 07:50
Matrix: Water
Date Received: 07/14/23 09:52

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	RSK-175			398043	HQR6	ELLE	07/18/23 11:00
Total/NA	Analysis	RSK-175		1	397918	LXF2	ELLE	07/18/23 18:16

Client Sample ID: 16WW48-230712
Lab Sample ID: 410-134801-3
Date Collected: 07/12/23 08:35
Matrix: Water
Date Received: 07/14/23 09:52

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	RSK-175			398043	HQR6	ELLE	07/18/23 11:00
Total/NA	Analysis	RSK-175		1	397918	LXF2	ELLE	07/18/23 18:24

Client Sample ID: 16WW48-230712-FD
Lab Sample ID: 410-134801-4
Date Collected: 07/12/23 08:35
Matrix: Water
Date Received: 07/14/23 09:52

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	RSK-175			398043	HQR6	ELLE	07/18/23 11:00
Total/NA	Analysis	RSK-175		1	397918	LXF2	ELLE	07/18/23 18:32

Client Sample ID: 16EW03-230712
Lab Sample ID: 410-134801-5
Date Collected: 07/12/23 09:25
Matrix: Water
Date Received: 07/14/23 09:52

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	RSK-175			398043	HQR6	ELLE	07/18/23 11:00
Total/NA	Analysis	RSK-175		1	397918	LXF2	ELLE	07/18/23 18:41

Client Sample ID: 16WW35-230712
Lab Sample ID: 410-134801-6
Date Collected: 07/12/23 10:15
Matrix: Water
Date Received: 07/14/23 09:52

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	RSK-175			398043	HQR6	ELLE	07/18/23 11:00
Total/NA	Analysis	RSK-175		1	397918	LXF2	ELLE	07/18/23 18:49

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Accreditation/Certification Summary

Client: ALS Group USA, Corp
Project/Site: HS23070658

Job ID: 410-134801-1

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	0001.01	11-30-24

Method Summary

Client: ALS Group USA, Corp
Project/Site: HS23070658

Job ID: 410-134801-1

Method	Method Description	Protocol	Laboratory
RSK-175	Dissolved Gases (GC)	RSK	ELLE
RSK-175	Dissolved Gases Prep	RSK	ELLE

Protocol References:

RSK = Sample Prep And Calculations For Dissolved Gas Analysis In Water Samples Using A GC Headspace Equilibration Technique, RSKSOP-175, Rev. 0, 8/11/94, USEPA Research Lab

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Sample Summary

Client: ALS Group USA, Corp
Project/Site: HS23070658

Job ID: 410-134801-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
410-134801-1	16WW55-230712	Water	07/12/23 07:05	07/14/23 09:52
410-134801-2	16WW41-230712	Water	07/12/23 07:50	07/14/23 09:52
410-134801-3	16WW48-230712	Water	07/12/23 08:35	07/14/23 09:52
410-134801-4	16WW48-230712-FD	Water	07/12/23 08:35	07/14/23 09:52
410-134801-5	16EW03-230712	Water	07/12/23 09:25	07/14/23 09:52
410-134801-6	16WW35-230712	Water	07/12/23 10:15	07/14/23 09:52

GC VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laborator Job No.: 410-134801-1

SDG No.:

Instrument ID: 19506-B Analysis Batch Number: 369251

Lab Sample ID: IC 410-369251/5 Client Sample ID:

Date Analyzed: 04/27/23 09:59 Lab File ID: 312023_04_27BB.0005.d GC Column: HP Plot ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Carbon dioxide	2.06	Baseline Smoothing	WN7O	04/28/23 07:18

Lab Sample ID: IC 410-369251/10 Client Sample ID:

Date Analyzed: 04/27/23 10:37 Lab File ID: 312023_04_27BB.0010.d GC Column: HP Plot ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Carbon dioxide	1.98	Baseline Smoothing	WN7O	04/28/23 07:17

GC VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laborator Job No.: 410-134801-1

SDG No.:

Instrument ID: 19506-B Analysis Batch Number: 397918

Lab Sample ID: MB 410-398043/1-A Client Sample ID:

Date Analyzed: 07/18/23 11:02 Lab File ID: 312023_07_18BB.0005.d GC Column: HP Plot ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Carbon dioxide	2.07	Peak not integrated	LXF2	07/19/23 03:20

Lab Sample ID: 410-134801-2 Client Sample ID: 16WW41-230712

Date Analyzed: 07/18/23 18:16 Lab File ID: 312023_07_18BB.0040.d GC Column: HP Plot ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Carbon dioxide	2.02	Peak not integrated	LXF2	07/19/23 03:22

Lab Sample ID: 410-134801-3 Client Sample ID: 16WW48-230712

Date Analyzed: 07/18/23 18:24 Lab File ID: 312023_07_18BB.0041.d GC Column: HP Plot ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Carbon dioxide	2.01	Peak not integrated	LXF2	07/19/23 03:22

Lab Sample ID: 410-134801-4 Client Sample ID: 16WW48-230712-FD

Date Analyzed: 07/18/23 18:32 Lab File ID: 312023_07_18BB.0042.d GC Column: HP Plot ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Carbon dioxide	2.01	Peak not integrated	LXF2	07/19/23 03:22

Lab Sample ID: 410-134801-5 Client Sample ID: 16EW03-230712

Date Analyzed: 07/18/23 18:41 Lab File ID: 312023_07_18BB.0043.d GC Column: HP Plot ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Carbon dioxide	2.01	Peak not integrated	LXF2	07/19/23 03:22

GC VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laborator Job No.: 410-134801-1

SDG No.:

Instrument ID: 19506-B Analysis Batch Number: 397918

Lab Sample ID: 410-134801-6 Client Sample ID: 16WW35-230712

Date Analyzed: 07/18/23 18:49 Lab File ID: 312023_07_18BB.0044.d GC Column: HP Plot ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Carbon dioxide	2.02	Peak not integrated	LXF2	07/19/23 03:23

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-134801-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
EPH_CO2ICV_00002	09/29/23	09/29/22	DI Water, Lot In House	1 mL	EPH_CO2XX_00002	0.0018 g	Carbon dioxide	547000 ppb
.EPH_CO2XX_00002	09/29/23	Air Products, Lot A214157			(Purchased Reagent)		Carbon dioxide	30.3889 %
EPH_CO2MS_00004	07/16/23	07/18/22	DI Water, Lot In House	1 g	EPH_CO2CRV_00002	0.0018 g	Carbon dioxide	1791000 ppb
.EPH_CO2CRV_00002	07/16/23	Praxair, Lot 4-11-18			(Purchased Reagent)		Carbon dioxide	99.5 %
EPH_CO2MS_00006	07/18/24	07/18/23	DI Water, Lot In House	1 g	EPH_CO2CRV_00003	0.0018 g	Carbon dioxide	1791000 ppb
.EPH_CO2CRV_00003	07/18/24	Praxair, Lot 4-11-18			(Purchased Reagent)		Carbon dioxide	99.5 %

Method RSK-175 CO2 DOD

Dissolved Gases (GC) by Method RSK_175_CO2 DOD

FORM III
GC VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-134801-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 312023_07_18BB.0006.d

Lab ID: LCS 410-398043/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Carbon dioxide	35800	37600	105	80-122	

Column to be used to flag recovery and RPD values

FORM III RSK-175

FORM III
GC VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-134801-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 312023_07_18BB.0007.d

Lab ID: LCSD 410-398043/3-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Carbon dioxide	35800	37400	104	1	20	80-122	

Column to be used to flag recovery and RPD values

FORM III RSK-175

FORM IV
GC VOA METHOD BLANK SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-134801-1

SDG No.:

Lab File ID: 312023_07_18BB.0005.d Lab Sample ID: MB 410-398043/1-A

Matrix: Water Heated Purge:(Y/N) N

Instrument ID: 19506-B Date Analyzed: 07/18/2023 11:02

GC Column: HP Plot ID: 0.53(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 410-398043/2-A	312023_07_18BB.0006.d	07/18/2023 11:10
	LCSD 410-398043/3-A	312023_07_18BB.0007.d	07/18/2023 11:18
16WW55-230712	410-134801-1	312023_07_18BB.0039.d	07/18/2023 18:08
16WW41-230712	410-134801-2	312023_07_18BB.0040.d	07/18/2023 18:16
16WW48-230712	410-134801-3	312023_07_18BB.0041.d	07/18/2023 18:24
16WW48-230712-FD	410-134801-4	312023_07_18BB.0042.d	07/18/2023 18:32
16EW03-230712	410-134801-5	312023_07_18BB.0043.d	07/18/2023 18:41
16WW35-230712	410-134801-6	312023_07_18BB.0044.d	07/18/2023 18:49

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-134801-1

SDG No.:

Client Sample ID: 16WW55-230712 Lab Sample ID: 410-134801-1

Matrix: Water Lab File ID: 312023_07_18BB.0039.d

Analysis Method: RSK-175 Date Collected: 07/12/2023 07:05

Sample wt/vol: 5(mL) Date Analyzed: 07/18/2023 18:08

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: HP Plot ID: 0.53(mm)

Purge Volume: Heated Purge: (Y/N) N pH: 7.0

% Moisture: % Solids: Level: (low/med) Low

Analysis Batch No.: 397918 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	DL
124-38-9	Carbon dioxide	120000		12000	2600

Eurofins Lancaster Laboratories Environment Testing, LLC

Target Compound Quantitation Report

Data File:	\\chromfs\Lancaster\ChromData\19506-B\20230718-89205.b\312023_07_18BB.0039.d				
Lims ID:	410-134801-A-1-A				
Client ID:	16WW55-230712				
Sample Type:	Client				
Inject. Date:	18-Jul-2023 18:08:00	ALS Bottle#:	0	Worklist Smp#:	39
Purge Vol:	1.000 mL	Dil. Factor:	1.0000		
Sample Info:					
Misc. Info.:	410-0089205-039				
Operator ID:		Instrument ID:	19506-B		
Method:	\\chromfs\Lancaster\ChromData\19506-B\20230718-89205.b\RSK_CO2_19506B.m				
Limit Group:	GCV - RSK175 CO2				
Last Update:	19-Jul-2023 03:23:39	Calib Date:	27-Apr-2023 10:37:00		
Integrator:	Genie				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\19506-B\20230427-82537.b\312023_04_27BB.0010.d				
Column 1 :	HP Plot (0.00 mm)		Det: 0FIDA		
Process Host:	CTX1624				

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/l	Flags
1 Carbon dioxide	2.037	2.054	-0.017	385308193	117111	H

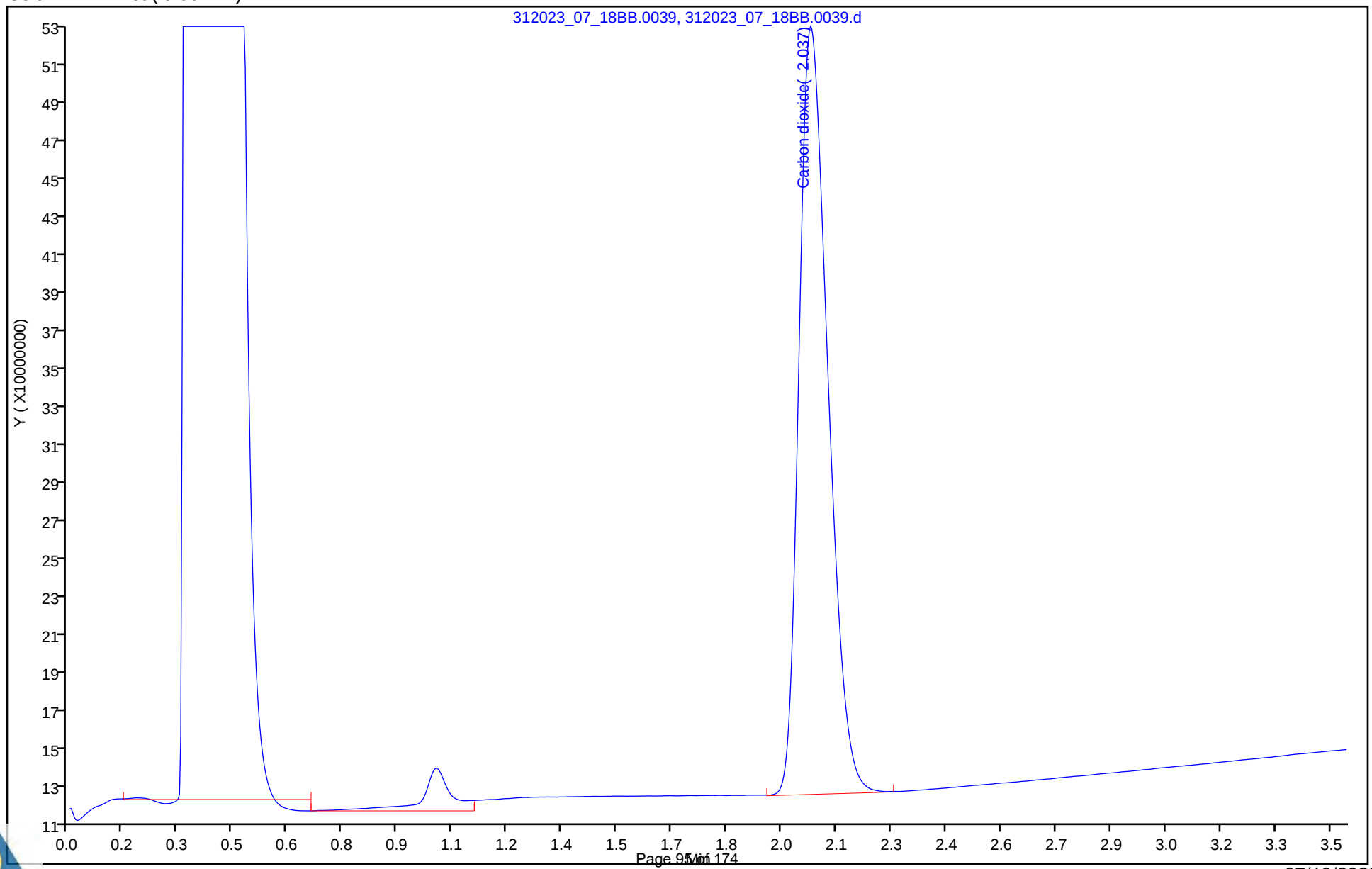
Report Date: 19-Jul-2023 03:23:41 Chrom Revision: 2.3 11-Jul-2023 11:49:10

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19506-B\20230718-89205.b\312023_07_18BB.0039.d

Injection Date:	18-Jul-2023 18:08:00	Instrument ID:	19506-B	Operator ID:	
Lims ID:	410-134801-A-1-A	Lab Sample ID:	410-134801-1	Worklist Smp#:	39
Client ID:	16WW55-230712				
Purge Vol:	1.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	RSK_CO2_19506B	Limit Group:	GCV - RSK175 CO2		

Column: HP Plot (0.00 mm)



07/19/2023

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-134801-1

SDG No.:

Client Sample ID: 16WW41-230712 Lab Sample ID: 410-134801-2

Matrix: Water Lab File ID: 312023_07_18BB.0040.d

Analysis Method: RSK-175 Date Collected: 07/12/2023 07:50

Sample wt/vol: 5(mL) Date Analyzed: 07/18/2023 18:16

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: HP Plot ID: 0.53(mm)

Purge Volume: Heated Purge: (Y/N) N pH: 7.0

% Moisture: % Solids: Level: (low/med) Low

Analysis Batch No.: 397918 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	DL
124-38-9	Carbon dioxide	220000	M	12000	2600

Report Date: 19-Jul-2023 03:23:41 Chrom Revision: 2.3 11-Jul-2023 11:49:10

Eurofins Lancaster Laboratories Environment Testing, LLC

Target Compound Quantitation Report

Data File:	\\chromfs\Lancaster\ChromData\19506-B\20230718-89205.b\312023_07_18BB.0040.d				
Lims ID:	410-134801-A-2-A				
Client ID:	16WW41-230712				
Sample Type:	Client				
Inject. Date:	18-Jul-2023 18:16:00	ALS Bottle#:	0	Worklist Smp#:	40
Purge Vol:	1.000 mL	Dil. Factor:	1.0000		
Sample Info:					
Misc. Info.:	410-0089205-040				
Operator ID:		Instrument ID:	19506-B		
Method:	\\chromfs\Lancaster\ChromData\19506-B\20230718-89205.b\RSK_CO2_19506B.m				
Limit Group:	GCV - RSK175 CO2				
Last Update:	19-Jul-2023 03:23:39	Calib Date:	27-Apr-2023 10:37:00		
Integrator:	Genie				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\19506-B\20230427-82537.b\312023_04_27BB.0010.d				
Column 1 :	HP Plot (0.00 mm)		Det: 0FIDA		
Process Host:	CTX1624				
First Level Reviewer: LXF2		Date:	19-Jul-2023 03:22:51		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/l	Flags
1 Carbon dioxide	2.015	2.054	-0.039	710766138H	216030	a

QC Flag Legend

Processing Flags

H - Response Measured by Height

Review Flags

a - User Assigned ID

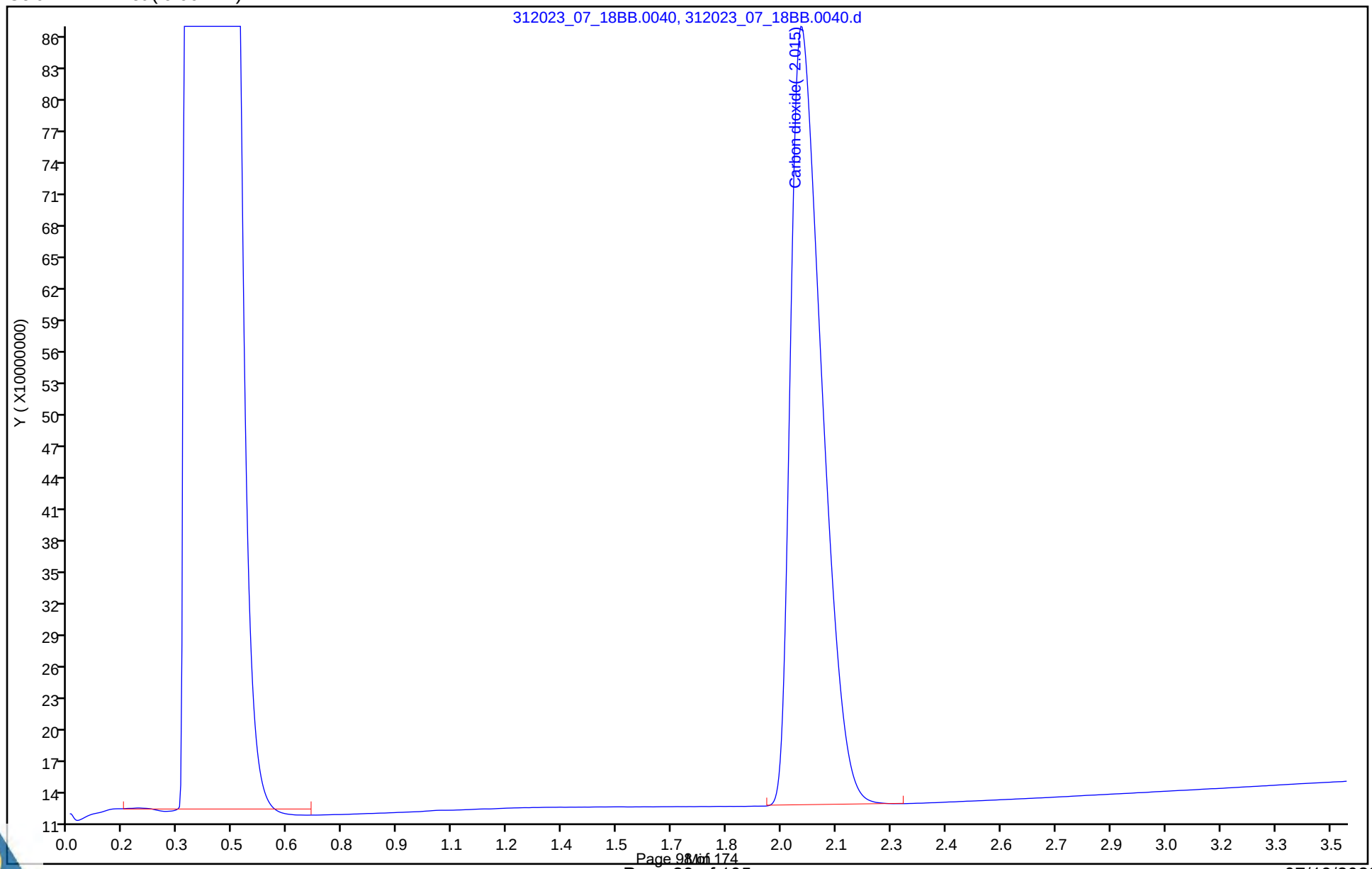
Report Date: 19-Jul-2023 03:23:41 Chrom Revision: 2.3 11-Jul-2023 11:49:10

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19506-B\20230718-89205.b\312023_07_18BB.0040.d

Injection Date:	18-Jul-2023 18:16:00	Instrument ID:	19506-B	Operator ID:	
Lims ID:	410-134801-A-2-A	Lab Sample ID:	410-134801-2	Worklist Smp#:	40
Client ID:	16WW41-230712				
Purge Vol:	1.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	RSK_CO2_19506B	Limit Group:	GCV - RSK175 CO2		

Column: HP Plot (0.00 mm)



Report Date: 19-Jul-2023 03:23:41 Chrom Revision: 2.3 11-Jul-2023 11:49:10 Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

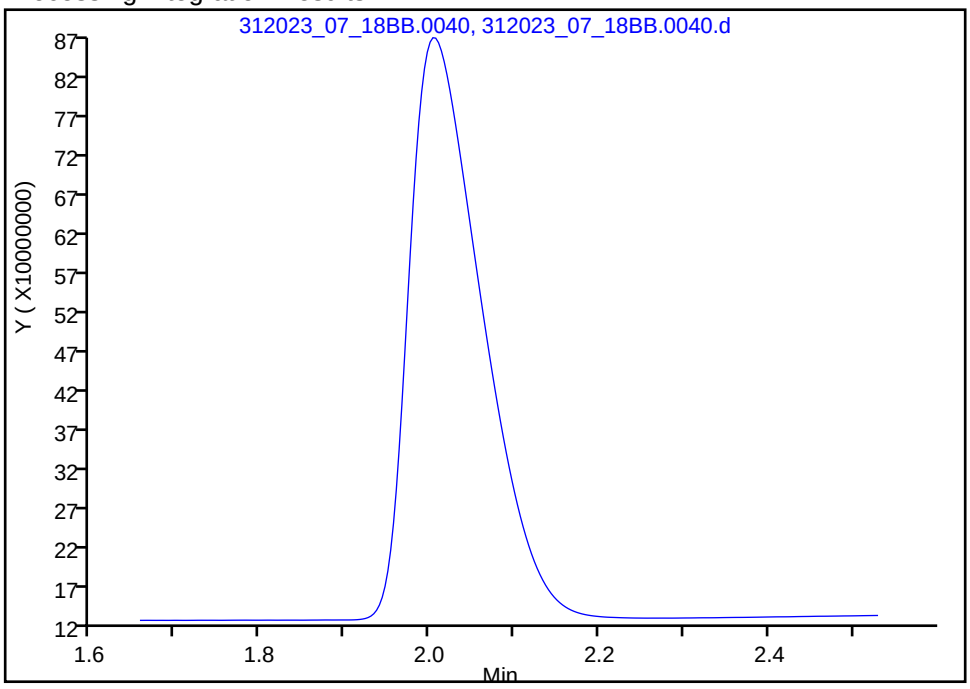
Data File:	\\chromfs\Lancaster\ChromData\19506-B\20230718-89205.b\312023_07_18BB.0040.d				
Injection Date:	18-Jul-2023 18:16:00	Instrument ID:	19506-B		
Lims ID:	410-134801-A-2-A	Lab Sample ID:	410-134801-2		
Client ID:	16WW41-230712				
Operator ID:		ALS Bottle#:	0	Worklist Smp#:	40
Purge Vol:	1.000 mL	Dil. Factor:	1.0000		
Method:	RSK_CO2_19506B	Limit Group:	GCV - RSK175 CO2		
Column:	HP Plot (0.00 mm)	Detector	0FIDA		

1 Carbon dioxide, CAS: 124-38-9

Signal: 1

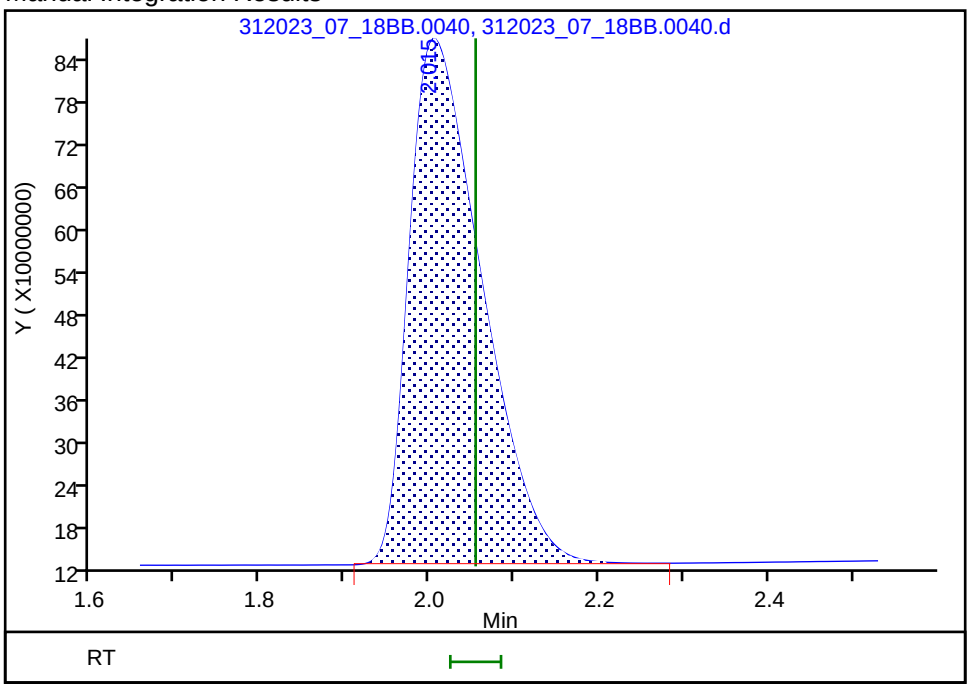
Not Detected
Expected RT: 2.05

Processing Integration Results



Manual Integration Results

RT: 2.01
Height: 710766138
Amount: 216030
Amount Units: ug/l



Reviewer: LXF2, 19-Jul-2023 03:22:49 -04:00:00 (UTC)
Audit Action: Assigned Compound ID Audit Reason: Peak not integrated

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-134801-1

SDG No.:

Client Sample ID: 16WW48-230712 Lab Sample ID: 410-134801-3

Matrix: Water Lab File ID: 312023_07_18BB.0041.d

Analysis Method: RSK-175 Date Collected: 07/12/2023 08:35

Sample wt/vol: 5(mL) Date Analyzed: 07/18/2023 18:24

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: HP Plot ID: 0.53(mm)

Purge Volume: Heated Purge: (Y/N) N pH: 7.0

% Moisture: % Solids: Level: (low/med) Low

Analysis Batch No.: 397918 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	DL
124-38-9	Carbon dioxide	220000	M	12000	2600

Report Date: 19-Jul-2023 03:23:42 Chrom Revision: 2.3 11-Jul-2023 11:49:10

Eurofins Lancaster Laboratories Environment Testing, LLC

Target Compound Quantitation Report

Data File:	\\chromfs\Lancaster\ChromData\19506-B\20230718-89205.b\312023_07_18BB.0041.d				
Lims ID:	410-134801-A-3-A				
Client ID:	16WW48-230712				
Sample Type:	Client				
Inject. Date:	18-Jul-2023 18:24:00	ALS Bottle#:	0	Worklist Smp#:	41
Purge Vol:	1.000 mL	Dil. Factor:	1.0000		
Sample Info:					
Misc. Info.:	410-0089205-041				
Operator ID:		Instrument ID:	19506-B		
Method:	\\chromfs\Lancaster\ChromData\19506-B\20230718-89205.b\RSK_CO2_19506B.m				
Limit Group:	GCV - RSK175 CO2				
Last Update:	19-Jul-2023 03:23:39	Calib Date:	27-Apr-2023 10:37:00		
Integrator:	Genie				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\19506-B\20230427-82537.b\312023_04_27BB.0010.d				
Column 1 :	HP Plot (0.00 mm)		Det: 0FIDA		
Process Host:	CTX1624				
First Level Reviewer: LXF2		Date:	19-Jul-2023 03:22:54		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/l	Flags
1 Carbon dioxide	2.013	2.054	-0.041	713496927H	216860	a

QC Flag Legend

Processing Flags

H - Response Measured by Height

Review Flags

a - User Assigned ID

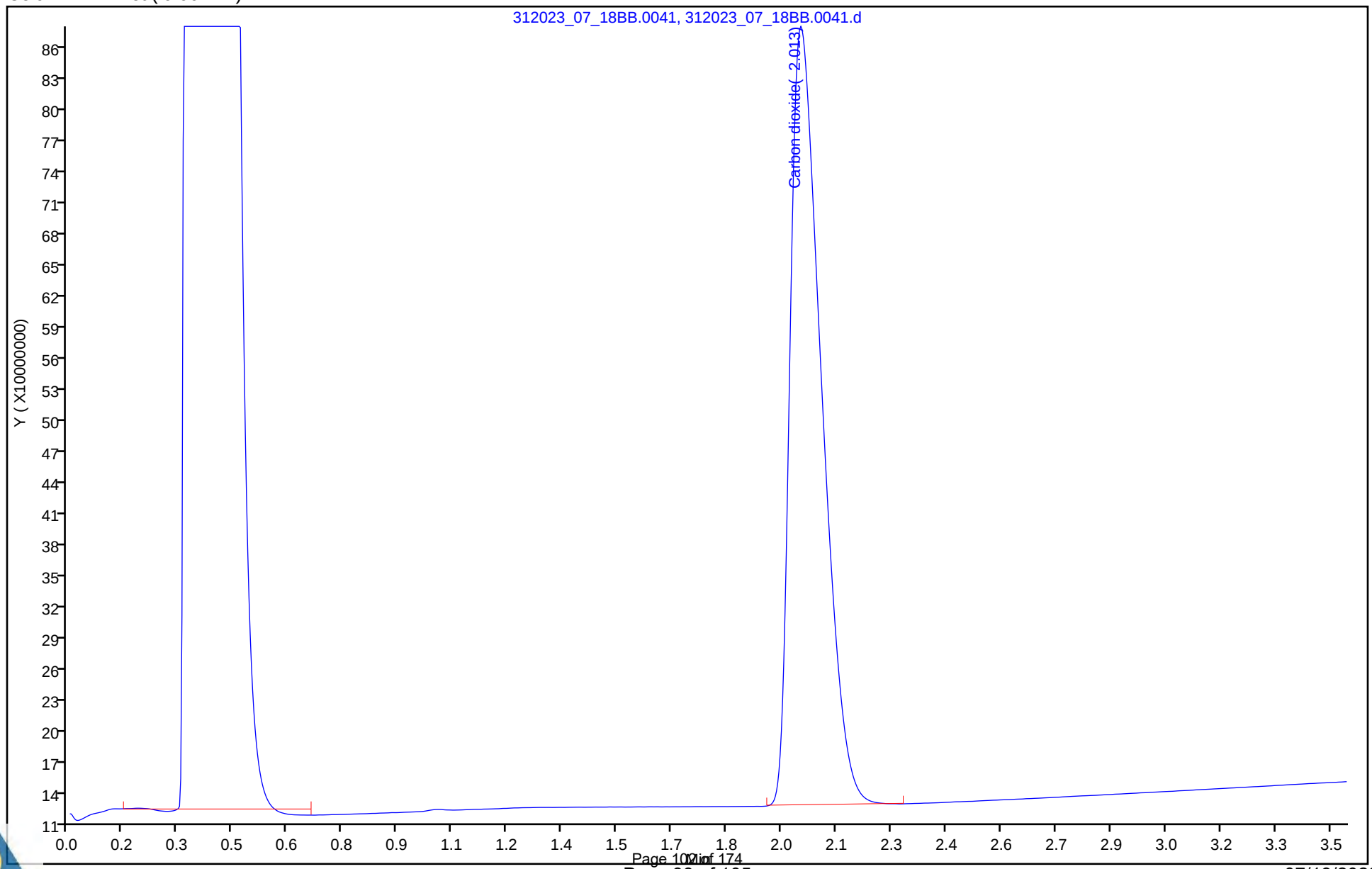
Report Date: 19-Jul-2023 03:23:42 Chrom Revision: 2.3 11-Jul-2023 11:49:10

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19506-B\20230718-89205.b\312023_07_18BB.0041.d

Injection Date:	18-Jul-2023 18:24:00	Instrument ID:	19506-B	Operator ID:	
Lims ID:	410-134801-A-3-A	Lab Sample ID:	410-134801-3	Worklist Smp#:	41
Client ID:	16WW48-230712				
Purge Vol:	1.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	RSK_CO2_19506B	Limit Group:	GCV - RSK175 CO2		

Column: HP Plot (0.00 mm)



Report Date: 19-Jul-2023 03:23:42

Chrom Revision: 2.3 11-Jul-2023 11:49:10
Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

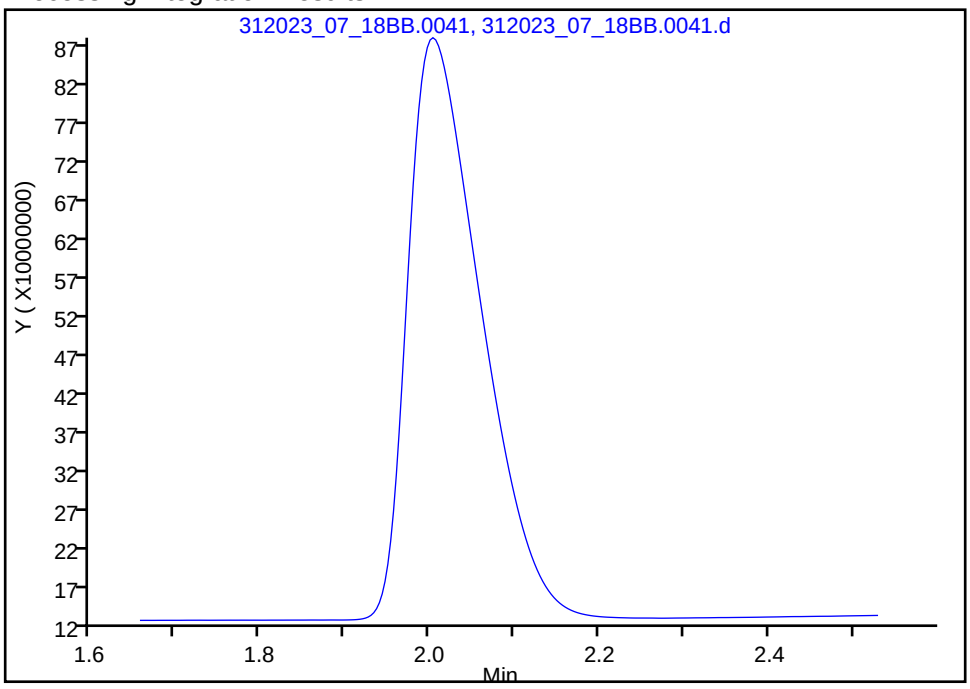
Data File:	\\chromfs\Lancaster\ChromData\19506-B\20230718-89205.b\312023_07_18BB.0041.d		
Injection Date:	18-Jul-2023 18:24:00	Instrument ID:	19506-B
Lims ID:	410-134801-A-3-A	Lab Sample ID:	410-134801-3
Client ID:	16WW48-230712		
Operator ID:		ALS Bottle#:	0 Worklist Smp#: 41
Purge Vol:	1.000 mL	Dil. Factor:	1.0000
Method:	RSK_CO2_19506B	Limit Group:	GCV - RSK175 CO2
Column:	HP Plot (0.00 mm)	Detector	0FIDA

1 Carbon dioxide, CAS: 124-38-9

Signal: 1

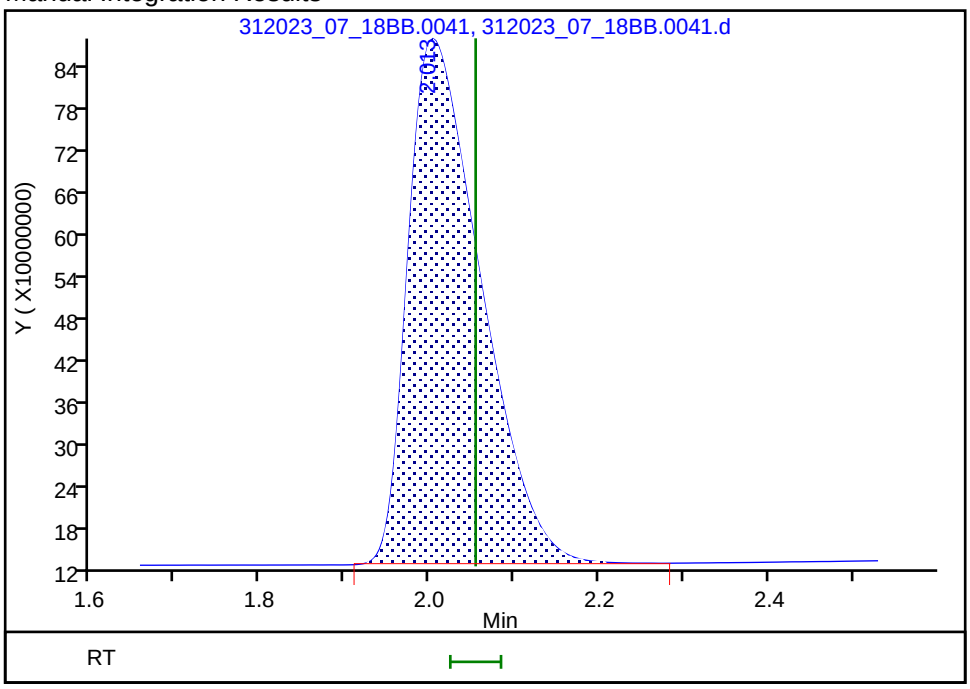
Not Detected
Expected RT: 2.05

Processing Integration Results



Manual Integration Results

RT: 2.01
Height: 713496927
Amount: 216860
Amount Units: ug/l



Reviewer: LXF2, 19-Jul-2023 03:22:54 -04:00:00 (UTC)
Audit Action: Assigned Compound ID Audit Reason: Peak not integrated

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-134801-1

SDG No.:

Client Sample ID: 16WW48-230712-FD Lab Sample ID: 410-134801-4

Matrix: Water Lab File ID: 312023_07_18BB.0042.d

Analysis Method: RSK-175 Date Collected: 07/12/2023 08:35

Sample wt/vol: 5(mL) Date Analyzed: 07/18/2023 18:32

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: HP Plot ID: 0.53(mm)

Purge Volume: Heated Purge: (Y/N) N pH: 7.0

% Moisture: % Solids: Level: (low/med) Low

Analysis Batch No.: 397918 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	DL
124-38-9	Carbon dioxide	220000	M	12000	2600

Report Date: 19-Jul-2023 03:23:42 Chrom Revision: 2.3 11-Jul-2023 11:49:10

Eurofins Lancaster Laboratories Environment Testing, LLC

Target Compound Quantitation Report

Data File:	\\chromfs\Lancaster\ChromData\19506-B\20230718-89205.b\312023_07_18BB.0042.d				
Lims ID:	410-134801-A-4-A				
Client ID:	16WW48-230712-FD				
Sample Type:	Client				
Inject. Date:	18-Jul-2023 18:32:00	ALS Bottle#:	0	Worklist Smp#:	42
Purge Vol:	1.000 mL	Dil. Factor:	1.0000		
Sample Info:					
Misc. Info.:	410-0089205-042				
Operator ID:		Instrument ID:	19506-B		
Method:	\\chromfs\Lancaster\ChromData\19506-B\20230718-89205.b\RSK_CO2_19506B.m				
Limit Group:	GCV - RSK175 CO2				
Last Update:	19-Jul-2023 03:23:39	Calib Date:	27-Apr-2023 10:37:00		
Integrator:	Genie				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\19506-B\20230427-82537.b\312023_04_27BB.0010.d				
Column 1 :	HP Plot (0.00 mm)		Det: 0FIDA		
Process Host:	CTX1624				
First Level Reviewer: LXF2		Date:	19-Jul-2023 03:22:57		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/l	Flags
1 Carbon dioxide	2.012	2.054	-0.042	733042911H	222801	a

QC Flag Legend

Processing Flags

H - Response Measured by Height

Review Flags

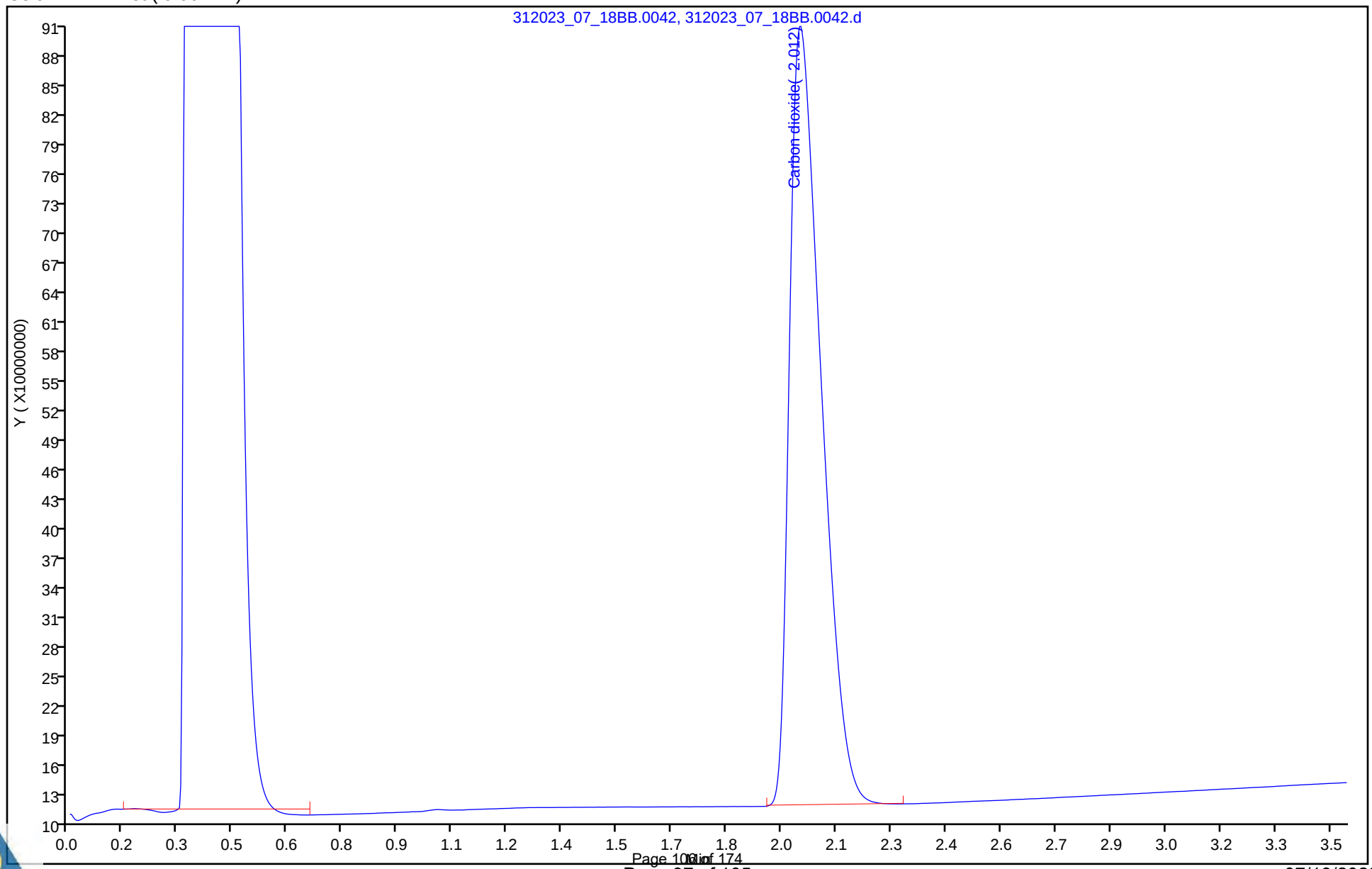
a - User Assigned ID

Report Date: 19-Jul-2023 03:23:42 Chrom Revision: 2.3 11-Jul-2023 11:49:10

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19506-B\20230718-89205.b\312023_07_18BB.0042.d				
Injection Date:	18-Jul-2023 18:32:00	Instrument ID:	19506-B	Operator ID:	
Lims ID:	410-134801-A-4-A	Lab Sample ID:	410-134801-4	Worklist Smp#:	42
Client ID:	16WW48-230712-FD				
Purge Vol:	1.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	RSK_CO2_19506B	Limit Group:	GCV - RSK175 CO2		

Column: HP Plot (0.00 mm)



Report Date: 19-Jul-2023 03:23:42 Chrom Revision: 2.3 11-Jul-2023 11:49:10 Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

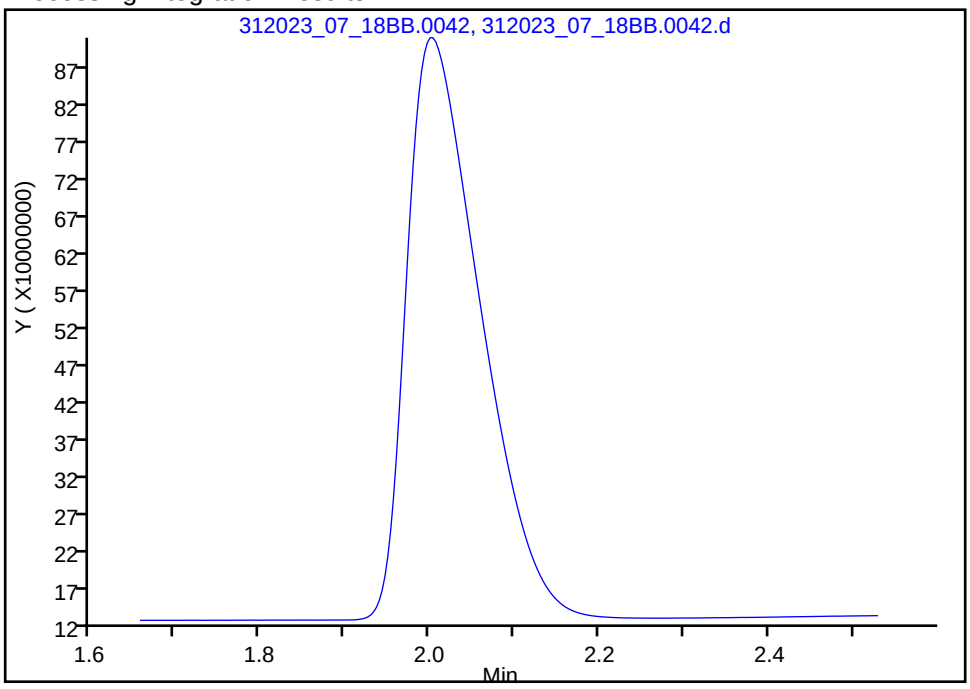
Data File:	\\chromfs\Lancaster\ChromData\19506-B\20230718-89205.b\312023_07_18BB.0042.d		
Injection Date:	18-Jul-2023 18:32:00	Instrument ID:	19506-B
Lims ID:	410-134801-A-4-A	Lab Sample ID:	410-134801-4
Client ID:	16WW48-230712-FD		
Operator ID:		ALS Bottle#:	0 Worklist Smp#: 42
Purge Vol:	1.000 mL	Dil. Factor:	1.0000
Method:	RSK_CO2_19506B	Limit Group:	GCV - RSK175 CO2
Column:	HP Plot (0.00 mm)	Detector	0FIDA

1 Carbon dioxide, CAS: 124-38-9

Signal: 1

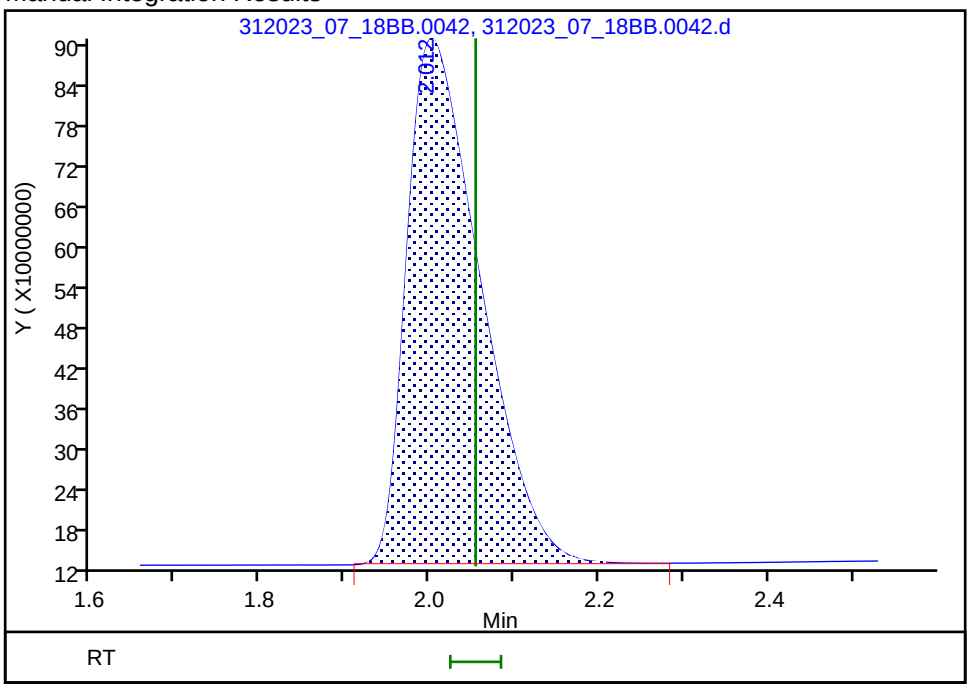
Not Detected
Expected RT: 2.05

Processing Integration Results



Manual Integration Results

RT: 2.01
Height: 733042911
Amount: 222801
Amount Units: ug/l



Reviewer: LXF2, 19-Jul-2023 03:22:56 -04:00:00 (UTC)
Audit Action: Assigned Compound ID Audit Reason: Peak not integrated

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-134801-1

SDG No.:

Client Sample ID: 16EW03-230712 Lab Sample ID: 410-134801-5

Matrix: Water Lab File ID: 312023_07_18BB.0043.d

Analysis Method: RSK-175 Date Collected: 07/12/2023 09:25

Sample wt/vol: 5(mL) Date Analyzed: 07/18/2023 18:41

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: HP Plot ID: 0.53(mm)

Purge Volume: Heated Purge: (Y/N) N pH: 7.0

% Moisture: % Solids: Level: (low/med) Low

Analysis Batch No.: 397918 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	DL
124-38-9	Carbon dioxide	220000	M	12000	2600

Report Date: 19-Jul-2023 03:23:42 Chrom Revision: 2.3 11-Jul-2023 11:49:10

Eurofins Lancaster Laboratories Environment Testing, LLC

Target Compound Quantitation Report

Data File:	\\chromfs\Lancaster\ChromData\19506-B\20230718-89205.b\312023_07_18BB.0043.d				
Lims ID:	410-134801-A-5-A				
Client ID:	16EW03-230712				
Sample Type:	Client				
Inject. Date:	18-Jul-2023 18:41:00	ALS Bottle#:	0	Worklist Smp#:	43
Purge Vol:	1.000 mL	Dil. Factor:	1.0000		
Sample Info:					
Misc. Info.:	410-0089205-043				
Operator ID:		Instrument ID:	19506-B		
Method:	\\chromfs\Lancaster\ChromData\19506-B\20230718-89205.b\RSK_CO2_19506B.m				
Limit Group:	GCV - RSK175 CO2				
Last Update:	19-Jul-2023 03:23:39	Calib Date:	27-Apr-2023 10:37:00		
Integrator:	Genie				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\19506-B\20230427-82537.b\312023_04_27BB.0010.d				
Column 1 :	HP Plot (0.00 mm)		Det: 0FIDA		
Process Host:	CTX1624				
First Level Reviewer: LXF2		Date:	19-Jul-2023 03:23:00		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/l	Flags
1 Carbon dioxide	2.012	2.054	-0.042	720906030H	219112	a

QC Flag Legend

Processing Flags

H - Response Measured by Height

Review Flags

a - User Assigned ID

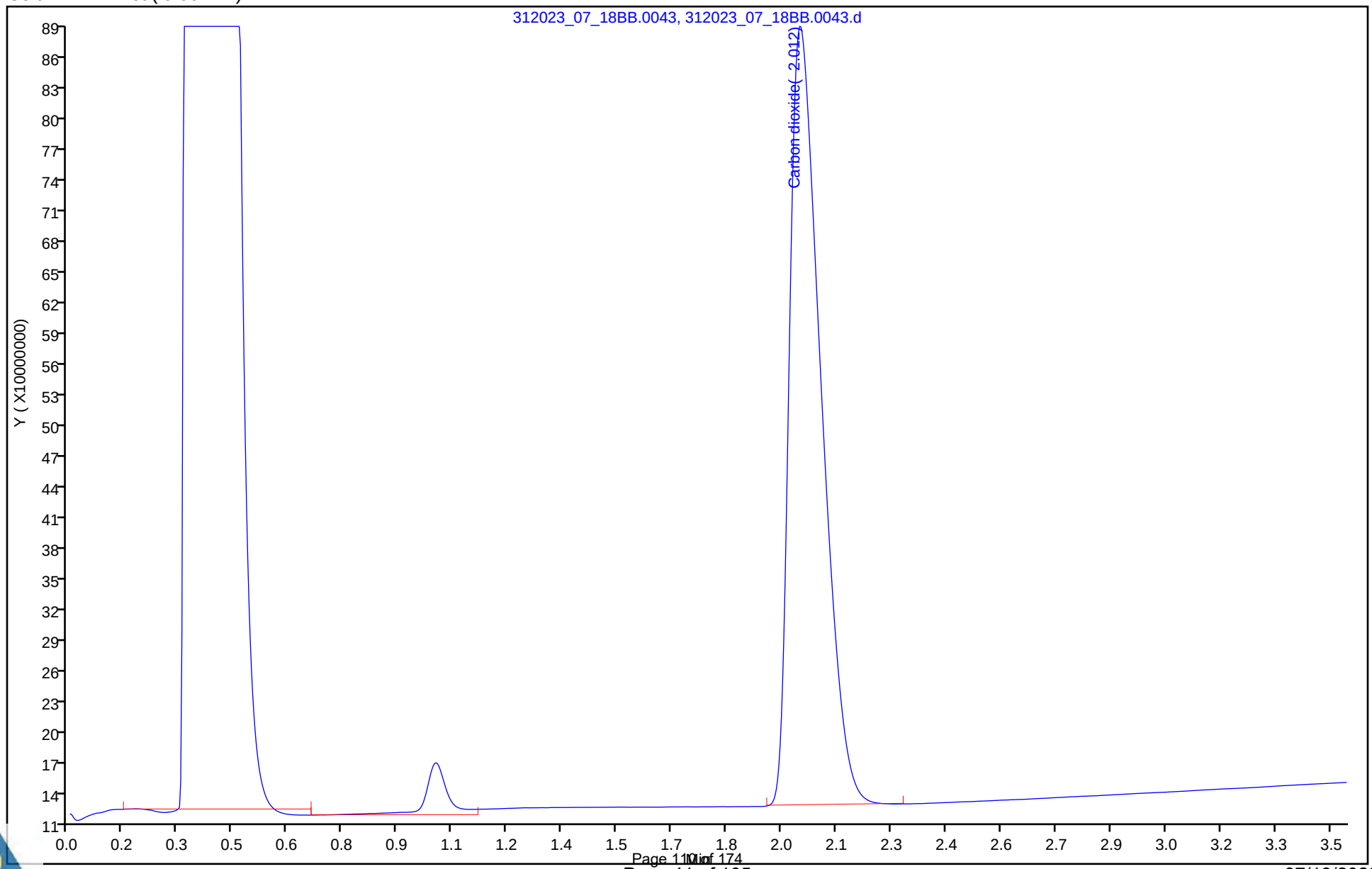
Report Date: 19-Jul-2023 03:23:42 Chrom Revision: 2.3 11-Jul-2023 11:49:10

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19506-B\20230718-89205.b\312023_07_18BB.0043.d

Injection Date:	18-Jul-2023 18:41:00	Instrument ID:	19506-B	Operator ID:	
Lims ID:	410-134801-A-5-A	Lab Sample ID:	410-134801-5	Worklist Smp#:	43
Client ID:	16EW03-230712				
Purge Vol:	1.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	RSK_CO2_19506B	Limit Group:	GCV - RSK175 CO2		

Column: HP Plot (0.00 mm)



Report Date: 19-Jul-2023 03:23:42

Chrom Revision: 2.3 11-Jul-2023 11:49:10 Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

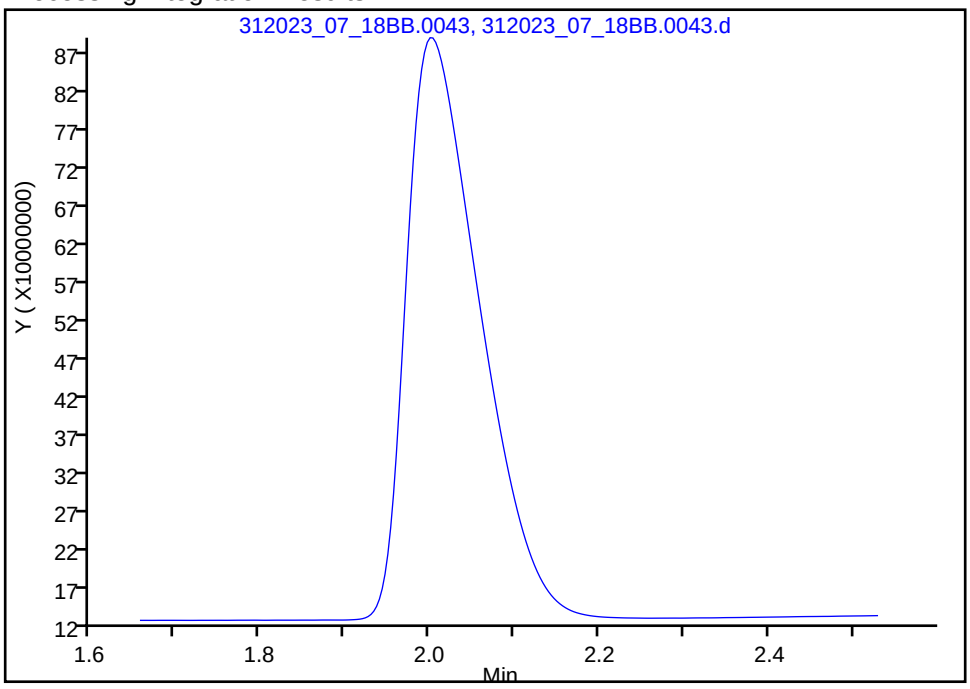
Data File:	\\chromfs\Lancaster\ChromData\19506-B\20230718-89205.b\312023_07_18BB.0043.d		
Injection Date:	18-Jul-2023 18:41:00	Instrument ID:	19506-B
Lims ID:	410-134801-A-5-A	Lab Sample ID:	410-134801-5
Client ID:	16EW03-230712		
Operator ID:		ALS Bottle#:	0 Worklist Smp#: 43
Purge Vol:	1.000 mL	Dil. Factor:	1.0000
Method:	RSK_CO2_19506B	Limit Group:	GCV - RSK175 CO2
Column:	HP Plot (0.00 mm)	Detector	0FIDA

1 Carbon dioxide, CAS: 124-38-9

Signal: 1

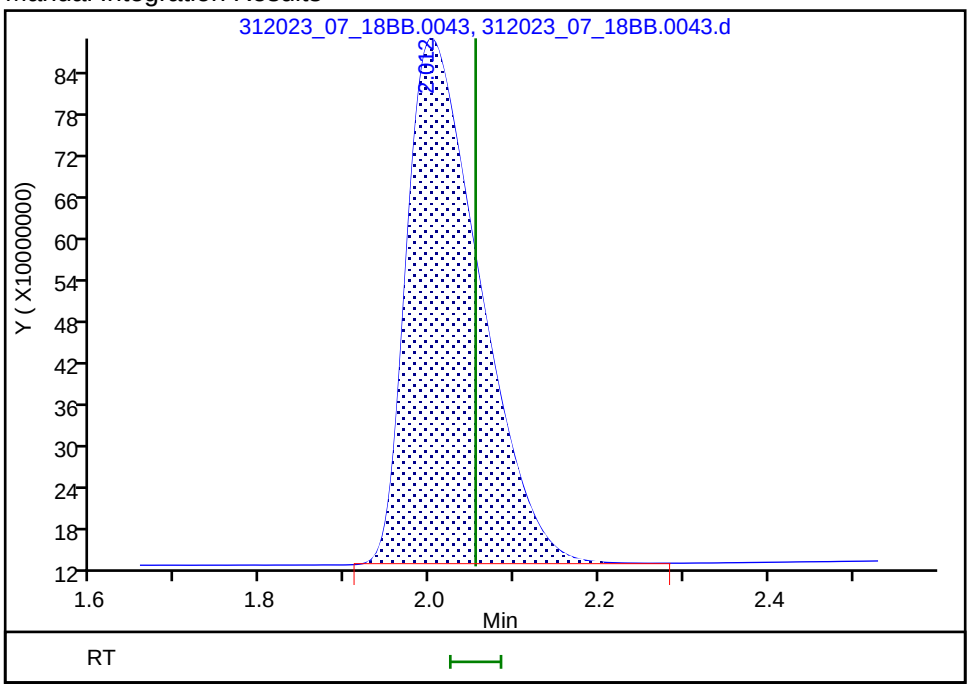
Not Detected
Expected RT: 2.05

Processing Integration Results



Manual Integration Results

RT: 2.01
Height: 720906030
Amount: 219112
Amount Units: ug/l



Reviewer: LXF2, 19-Jul-2023 03:22:59 -04:00:00 (UTC)
Audit Action: Assigned Compound ID Audit Reason: Peak not integrated

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-134801-1

SDG No.:

Client Sample ID: 16WW35-230712
Lab Sample ID: 410-134801-6

Matrix: Water
Lab File ID: 312023_07_18BB.0044.d

Analysis Method: RSK-175
Date Collected: 07/12/2023 10:15

Sample wt/vol: 5(mL)
Date Analyzed: 07/18/2023 18:49

Soil Aliquot Vol:
Dilution Factor: 1

Soil Extract Vol.:
GC Column: HP Plot ID: 0.53(mm)

Purge Volume:
Heated Purge: (Y/N) N pH: 7.0

% Moisture: % Solids:
Level: (low/med) Low

Analysis Batch No.: 397918
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	DL
124-38-9	Carbon dioxide	190000	M	12000	2600

Report Date: 19-Jul-2023 03:23:43 Chrom Revision: 2.3 11-Jul-2023 11:49:10

Eurofins Lancaster Laboratories Environment Testing, LLC

Target Compound Quantitation Report

Data File:	\\chromfs\Lancaster\ChromData\19506-B\20230718-89205.b\312023_07_18BB.0044.d				
Lims ID:	410-134801-A-6-A				
Client ID:	16WW35-230712				
Sample Type:	Client				
Inject. Date:	18-Jul-2023 18:49:00	ALS Bottle#:	0	Worklist Smp#:	44
Purge Vol:	1.000 mL	Dil. Factor:	1.0000		
Sample Info:					
Misc. Info.:	410-0089205-044				
Operator ID:		Instrument ID:	19506-B		
Method:	\\chromfs\Lancaster\ChromData\19506-B\20230718-89205.b\RSK_CO2_19506B.m				
Limit Group:	GCV - RSK175 CO2				
Last Update:	19-Jul-2023 03:23:39	Calib Date:	27-Apr-2023 10:37:00		
Integrator:	Genie				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\19506-B\20230427-82537.b\312023_04_27BB.0010.d				
Column 1 :	HP Plot (0.00 mm)		Det: 0FIDA		
Process Host:	CTX1624				
First Level Reviewer: LXF2		Date:	19-Jul-2023 03:23:03		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response		OnCol Amt ug/l	Flags
1 Carbon dioxide	2.020	2.054	-0.034	615116624	H	186959	a

QC Flag Legend

Processing Flags

H - Response Measured by Height

Review Flags

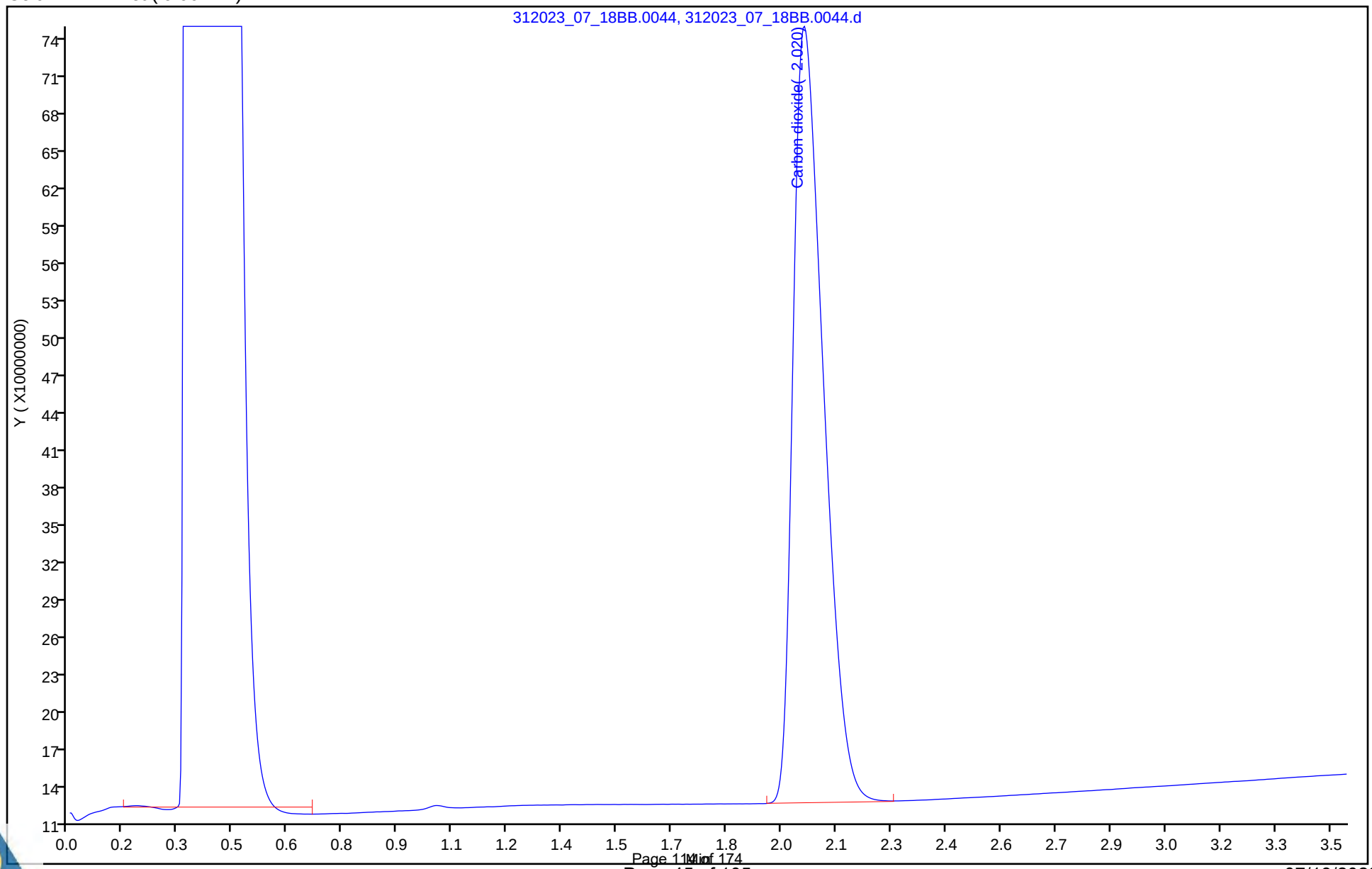
a - User Assigned ID

Report Date: 19-Jul-2023 03:23:43 Chrom Revision: 2.3 11-Jul-2023 11:49:10

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19506-B\20230718-89205.b\312023_07_18BB.0044.d				
Injection Date:	18-Jul-2023 18:49:00	Instrument ID:	19506-B	Operator ID:	
Lims ID:	410-134801-A-6-A	Lab Sample ID:	410-134801-6	Worklist Smp#:	44
Client ID:	16WW35-230712				
Purge Vol:	1.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	RSK_CO2_19506B	Limit Group:	GCV - RSK175 CO2		

Column: HP Plot (0.00 mm)



Report Date: 19-Jul-2023 03:23:43 Chrom Revision: 2.3 11-Jul-2023 11:49:10 Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

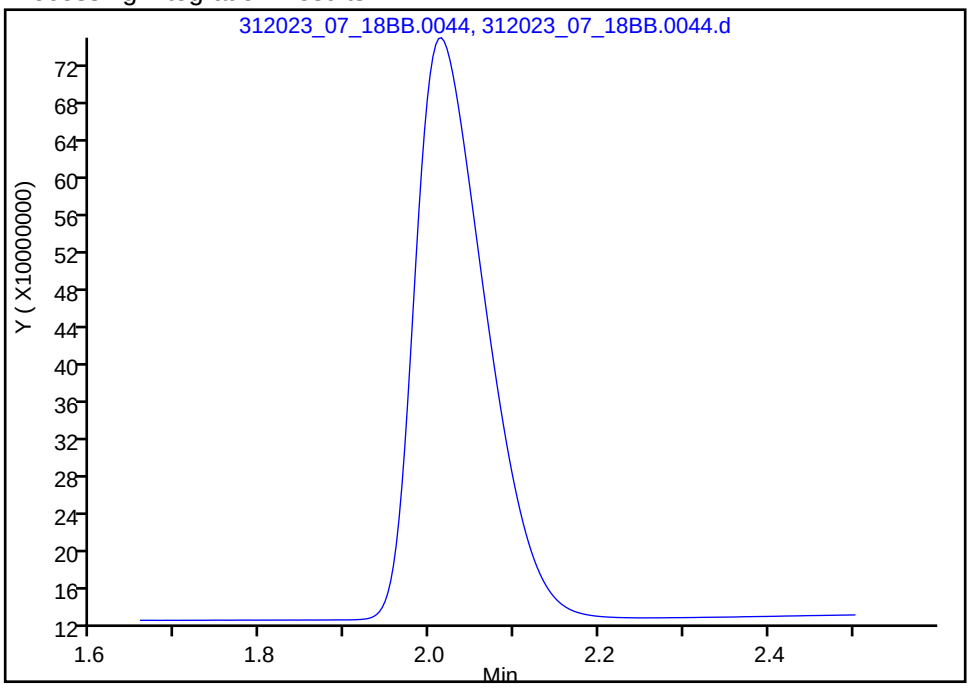
Data File:	\\chromfs\Lancaster\ChromData\19506-B\20230718-89205.b\312023_07_18BB.0044.d				
Injection Date:	18-Jul-2023 18:49:00	Instrument ID:	19506-B		
Lims ID:	410-134801-A-6-A	Lab Sample ID:	410-134801-6		
Client ID:	16WW35-230712				
Operator ID:		ALS Bottle#:	0	Worklist Smp#:	44
Purge Vol:	1.000 mL	Dil. Factor:	1.0000		
Method:	RSK_CO2_19506B	Limit Group:	GCV - RSK175 CO2		
Column:	HP Plot (0.00 mm)	Detector	0FIDA		

1 Carbon dioxide, CAS: 124-38-9

Signal: 1

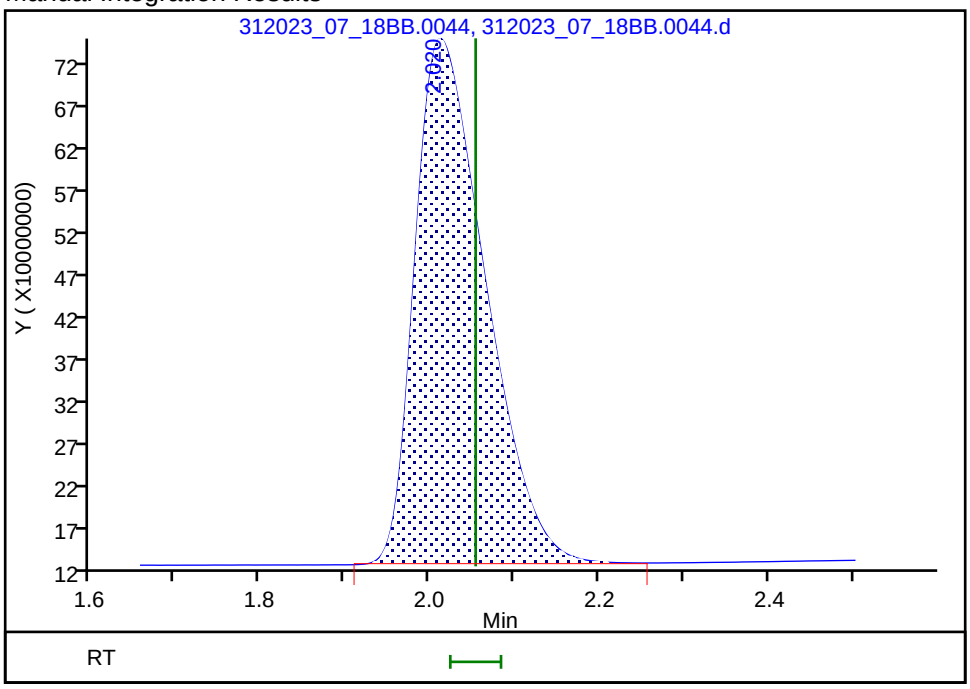
Not Detected
Expected RT: 2.05

Processing Integration Results



Manual Integration Results

RT: 2.02
Height: 615116624
Amount: 186959
Amount Units: ug/l



Reviewer: LXF2, 19-Jul-2023 03:23:02 -04:00:00 (UTC)
Audit Action: Assigned Compound ID Audit Reason: Peak not integrated

FORM VI
GC VOA BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
RETENTION TIME SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-134801-1 Analy Batch No.: 369251

SDG No.:

Instrument ID: 19506-B GC Column: HP Plot ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/27/2023 09:59 Calibration End Date: 04/27/2023 10:37 Calibration ID: 49603

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-369251/5	312023_04_27BB.0005.d
Level 2	IC 410-369251/6	312023_04_27BB.0006.d
Level 3	ICRT 410-369251/7	312023_04_27BB.0007.d
Level 4	IC 410-369251/8	312023_04_27BB.0008.d
Level 5	IC 410-369251/9	312023_04_27BB.0009.d
Level 6	IC 410-369251/10	312023_04_27BB.0010.d

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6					RT WINDOW	AVG RT
Carbon dioxide	2.060	2.059	2.054	2.043	2.024	1.983					2.024 - 2.084	2.037

FORM VI
GC VOA BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-134801-1 Analy Batch No.: 369251

SDG No.:

Instrument ID: 19506-B GC Column: HP Plot ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/27/2023 09:59 Calibration End Date: 04/27/2023 10:37 Calibration ID: 49603

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-369251/5	312023_04_27BB.0005.d
Level 2	IC 410-369251/6	312023_04_27BB.0006.d
Level 3	ICRT 410-369251/7	312023_04_27BB.0007.d
Level 4	IC 410-369251/8	312023_04_27BB.0008.d
Level 5	IC 410-369251/9	312023_04_27BB.0009.d
Level 6	IC 410-369251/10	312023_04_27BB.0010.d

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5	LVL 2 LVL 6	LVL 3	LVL 4		B	M1	M2								
Carbon dioxide	3853.7 3132.6	3271.4 2761.6	3403.0	3318.5	Ave		3290.12214				10.8		20.0			

Note: The M1 coefficient is the same as Ave CF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
GC VOA BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-134801-1 Analy Batch No.: 369251

SDG No.:

Instrument ID: 19506-B GC Column: HP Plot ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/27/2023 09:59 Calibration End Date: 04/27/2023 10:37 Calibration ID: 49603

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-369251/5	312023_04_27BB.0005.d
Level 2	IC 410-369251/6	312023_04_27BB.0006.d
Level 3	ICRT 410-369251/7	312023_04_27BB.0007.d
Level 4	IC 410-369251/8	312023_04_27BB.0008.d
Level 5	IC 410-369251/9	312023_04_27BB.0009.d
Level 6	IC 410-369251/10	312023_04_27BB.0010.d

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
		LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Carbon dioxide	Ave	41411686 989211697	70308888	121893696	297170647	561047460	10746 358200	21492	35820	89550	179100

Curve Type Legend
Ave = Average by Height

Report Date: 28-Apr-2023 07:19:05 Chrom Revision: 2.3 20-Apr-2023 08:27:48

Eurofins Lancaster Laboratories Environment Testing, LLC

Target Compound Quantitation Report

Data File:	\\chromfs\Lancaster\ChromData\19506-B\20230427-82537.b\312023_04_27BB.0005.d				
Lims ID:	ic				
Client ID:					
Sample Type:	IC	Calib Level:	1		
Inject. Date:	27-Apr-2023 09:59:00	ALS Bottle#:	0	Worklist Smp#:	5
Purge Vol:	1.000 mL	Dil. Factor:	1.0000		
Sample Info:					
Misc. Info.:	410-0082537-005				
Operator ID:		Instrument ID:	19506-B		
Sublist:	chrom-RSK_CO2_19506B*sub1				
Method:	\\chromfs\Lancaster\ChromData\19506-B\20230427-82537.b\RSK_CO2_19506B.m				
Limit Group:	GCV - RSK175 CO2				
Last Update:	28-Apr-2023 07:19:05	Calib Date:	27-Apr-2023 10:37:00		
Integrator:	Genie				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\19506-B\20230427-82537.b\312023_04_27BB.0010.d				
Column 1 :	HP Plot (0.00 mm)		Det: 0FIDA		
Process Host:	CTX1628				
First Level Reviewer: WN7O		Date:	28-Apr-2023 07:18:31		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Carbon dioxide	2.060	2.054	0.006	41411686H	10746	12587	M

QC Flag Legend

Processing Flags

H - Response Measured by Height

Review Flags

M - Manually Integrated

Reagents:

EPH_CO2MS_00004 Amount Added: 30.00 Units: uL

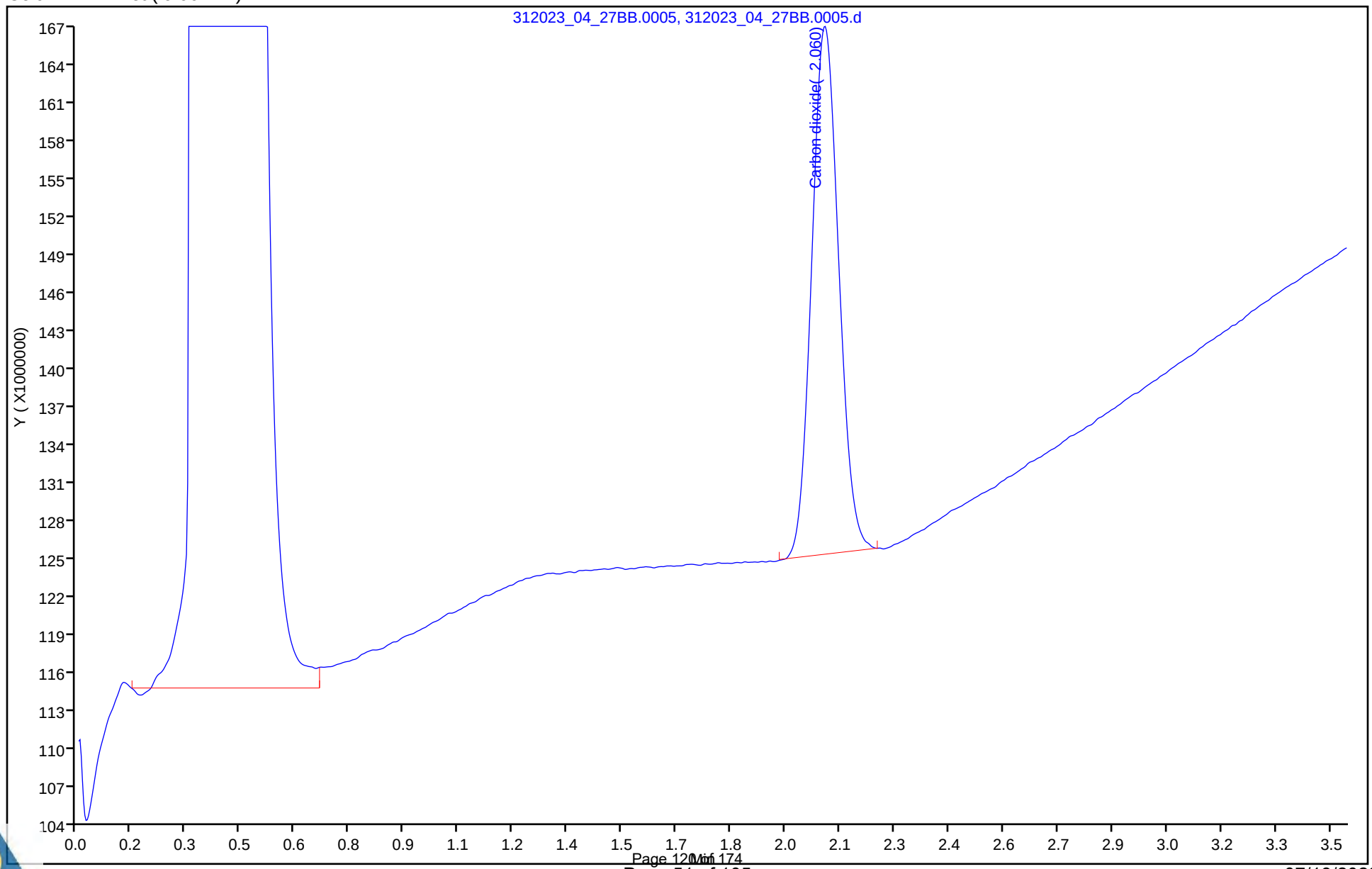
Report Date: 28-Apr-2023 07:19:05 Chrom Revision: 2.3 20-Apr-2023 08:27:48

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19506-B\20230427-82537.b\312023_04_27BB.0005.d

Injection Date:	27-Apr-2023 09:59:00	Instrument ID:	19506-B	Operator ID:	
Lims ID:	ic			Worklist Smp#:	5
Client ID:					
Purge Vol:	1.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	RSK_CO2_19506B	Limit Group:	GCV - RSK175 CO2		

Column: HP Plot (0.00 mm)



Report Date: 28-Apr-2023 07:19:05 Chrom Revision: 2.3 20-Apr-2023 08:27:48 Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

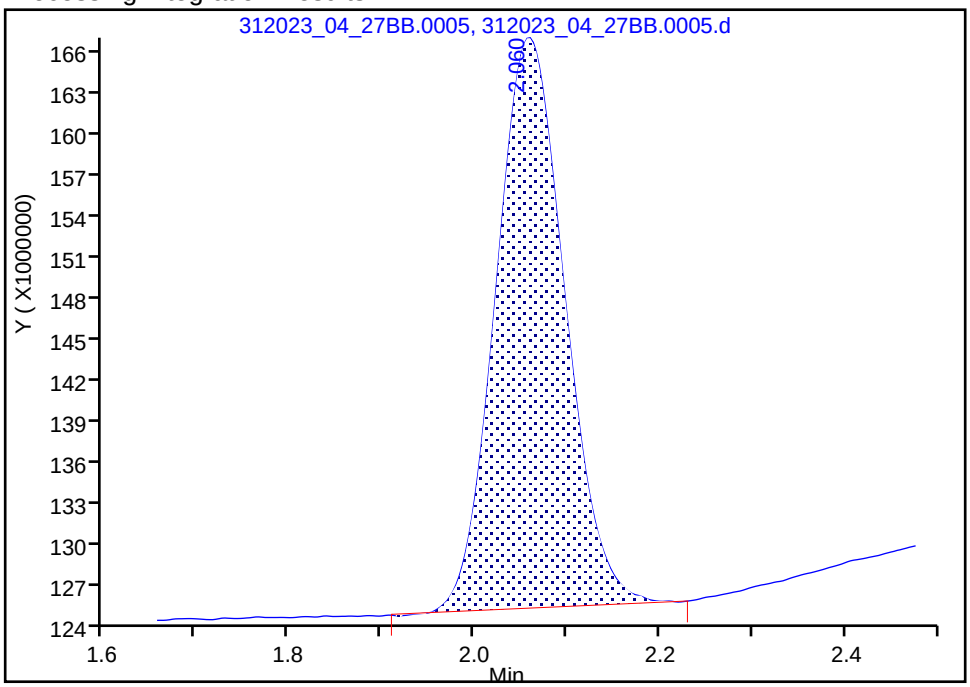
Data File:	\\chromfs\Lancaster\ChromData\19506-B\20230427-82537.b\312023_04_27BB.0005.d		
Injection Date:	27-Apr-2023 09:59:00	Instrument ID:	19506-B
Lims ID:	ic		
Client ID:			
Operator ID:		ALS Bottle#:	0 Worklist Smp#: 5
Purge Vol:	1.000 mL	Dil. Factor:	1.0000
Method:	RSK_CO2_19506B	Limit Group:	GCV - RSK175 CO2
Column:	HP Plot (0.00 mm)	Detector	0FIDA

1 Carbon dioxide, CAS: 124-38-9

Signal: 1

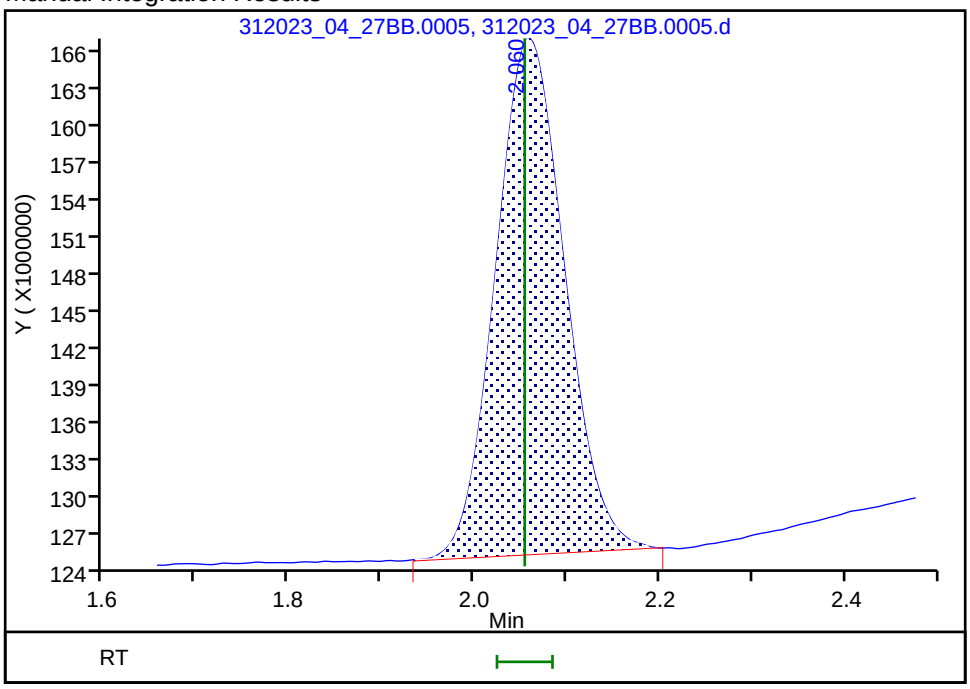
Processing Integration Results

RT: 2.06
Height: 40493056
Amount: 12361
Amount Units: ug/l



Manual Integration Results

RT: 2.06
Height: 41411686
Amount: 12587
Amount Units: ug/l



Reviewer: WN7O, 28-Apr-2023 07:18:28
Audit Action: Manually Integrated Audit Reason: Baseline Smoothing

Report Date: 28-Apr-2023 07:19:06 Chrom Revision: 2.3 20-Apr-2023 08:27:48

Eurofins Lancaster Laboratories Environment Testing, LLC

Target Compound Quantitation Report

Data File:	\\chromfs\Lancaster\ChromData\19506-B\20230427-82537.b\312023_04_27BB.0006.d				
Lims ID:	ic				
Client ID:					
Sample Type:	IC	Calib Level:	2		
Inject. Date:	27-Apr-2023 10:06:00	ALS Bottle#:	0	Worklist Smp#:	6
Purge Vol:	1.000 mL	Dil. Factor:	1.0000		
Sample Info:					
Misc. Info.:	410-0082537-006				
Operator ID:		Instrument ID:	19506-B		
Sublist:	chrom-RSK_CO2_19506B*sub1				
Method:	\\chromfs\Lancaster\ChromData\19506-B\20230427-82537.b\RSK_CO2_19506B.m				
Limit Group:	GCV - RSK175 CO2				
Last Update:	28-Apr-2023 07:19:06	Calib Date:	27-Apr-2023 10:37:00		
Integrator:	Genie				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\19506-B\20230427-82537.b\312023_04_27BB.0010.d				
Column 1 :	HP Plot (0.00 mm)		Det: 0FIDA		
Process Host:	CTX1628				

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Carbon dioxide	2.059	2.054	0.005	70308888	H 21492	21370	

Reagents:

EPH_CO2MS_00004 Amount Added: 60.00 Units: uL

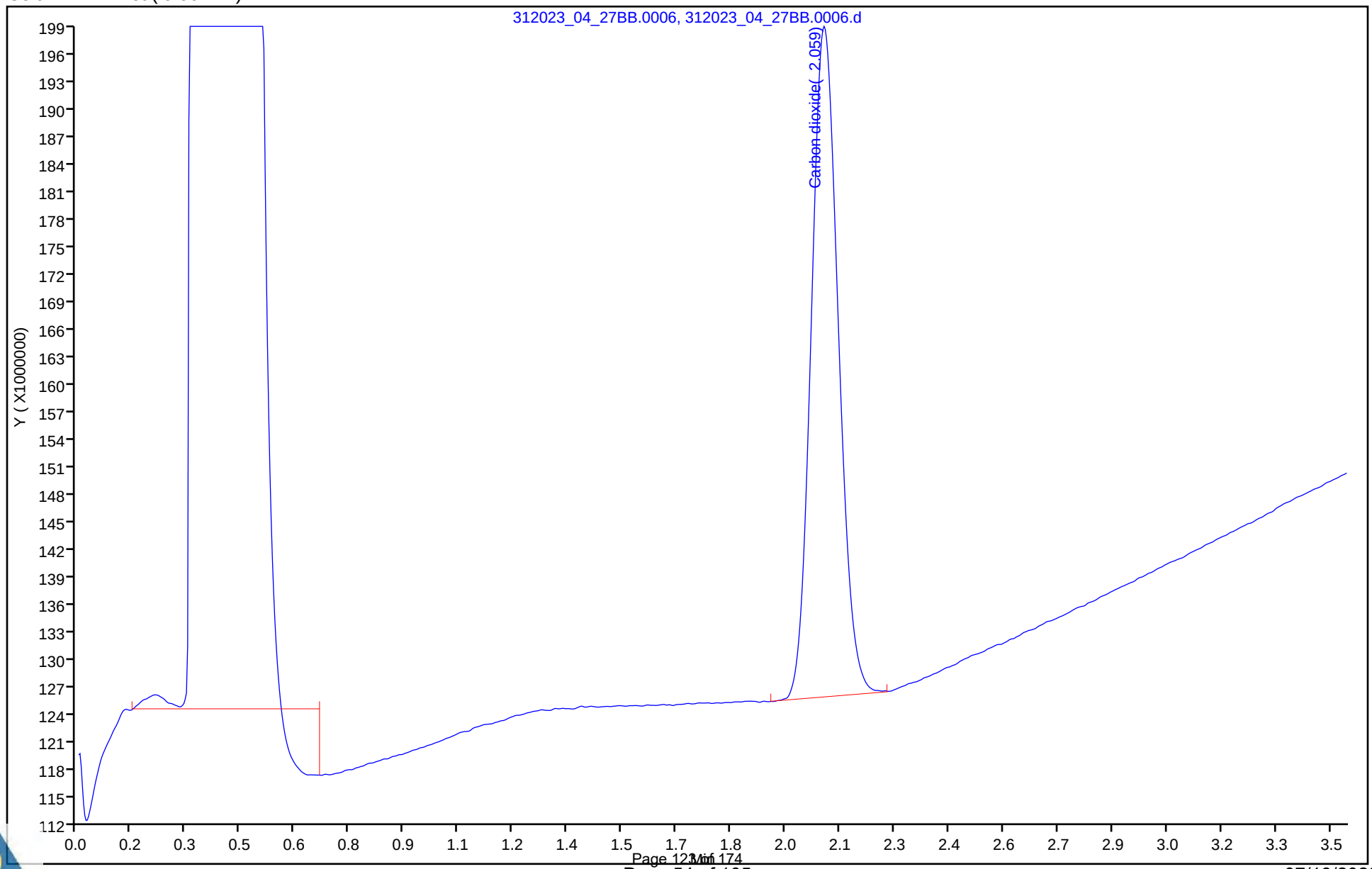
Report Date: 28-Apr-2023 07:19:06 Chrom Revision: 2.3 20-Apr-2023 08:27:48

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19506-B\20230427-82537.b\312023_04_27BB.0006.d

Injection Date:	27-Apr-2023 10:06:00	Instrument ID:	19506-B	Operator ID:	
Lims ID:	ic			Worklist Smp#:	6
Client ID:					
Purge Vol:	1.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	RSK_CO2_19506B	Limit Group:	GCV - RSK175 CO2		

Column: HP Plot (0.00 mm)



Report Date: 28-Apr-2023 07:19:08 Chrom Revision: 2.3 20-Apr-2023 08:27:48

Eurofins Lancaster Laboratories Environment Testing, LLC

Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19506-B\20230427-82537.b\312023_04_27BB.0007.d
Lims ID: icrt
Client ID:
Sample Type: ICRT Calib Level: 3
Inject. Date: 27-Apr-2023 10:14:00 ALS Bottle#: 0 Worklist Smp#: 7
Purge Vol: 1.000 mL Dil. Factor: 1.0000
Sample Info:
Misc. Info.: 410-0082537-007
Operator ID: Instrument ID: 19506-B
Sublist: chrom-RSK_CO2_19506B*sub1

Method: \\chromfs\Lancaster\ChromData\19506-B\20230427-82537.b\RSK_CO2_19506B.m
Limit Group: GCV - RSK175 CO2
Last Update: 28-Apr-2023 07:19:08 Calib Date: 27-Apr-2023 10:37:00
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19506-B\20230427-82537.b\312023_04_27BB.0010.d

Column 1 : HP Plot (0.00 mm) Det: 0FIDA
Process Host: CTX1628

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Carbon dioxide	2.054	2.054	0.000	121893696	H 35820	37048	

Reagents:

EPH_CO2MS_00004 Amount Added: 100.00 Units: uL

Report Date: 28-Apr-2023 07:19:08 Chrom Revision: 2.3 20-Apr-2023 08:27:48

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19506-B\20230427-82537.b\312023_04_27BB.0007.d

Injection Date: 27-Apr-2023 10:14:00 Instrument ID: 19506-B Operator ID:

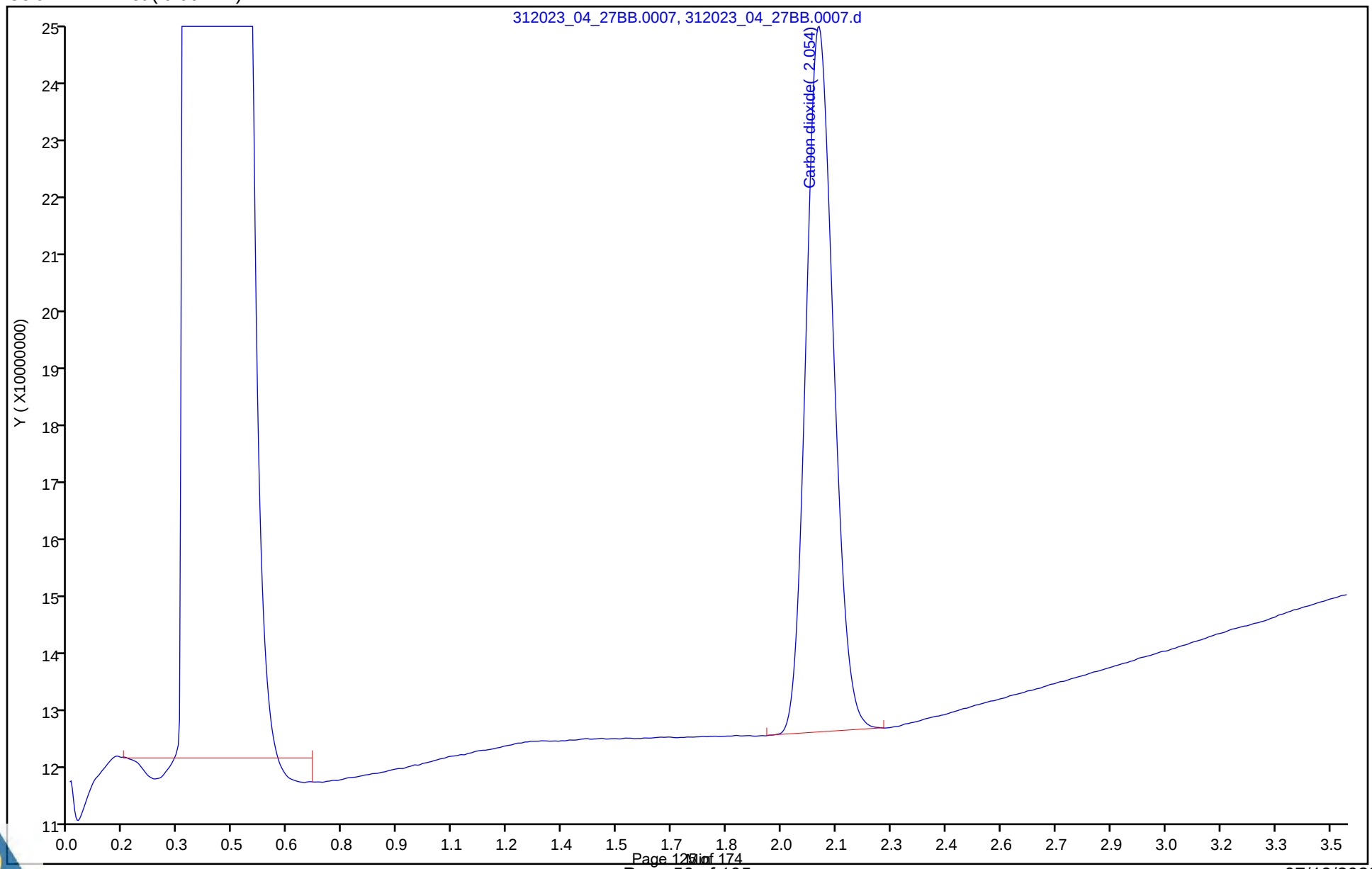
Lims ID: icrt Worklist Smp#: 7

Client ID:

Purge Vol: 1.000 mL Dil. Factor: 1.0000 ALS Bottle#: 0

Method: RSK_CO2_19506B Limit Group: GCV - RSK175 CO2

Column: HP Plot (0.00 mm)



Report Date: 28-Apr-2023 07:19:09 Chrom Revision: 2.3 20-Apr-2023 08:27:48

Eurofins Lancaster Laboratories Environment Testing, LLC

Target Compound Quantitation Report

Data File:	\\chromfs\Lancaster\ChromData\19506-B\20230427-82537.b\312023_04_27BB.0008.d				
Lims ID:	ic				
Client ID:					
Sample Type:	IC	Calib Level:	4		
Inject. Date:	27-Apr-2023 10:22:00	ALS Bottle#:	0	Worklist Smp#:	8
Purge Vol:	1.000 mL	Dil. Factor:	1.0000		
Sample Info:					
Misc. Info.:	410-0082537-008				
Operator ID:		Instrument ID:	19506-B		
Sublist:	chrom-RSK_CO2_19506B*sub1				
Method:	\\chromfs\Lancaster\ChromData\19506-B\20230427-82537.b\RSK_CO2_19506B.m				
Limit Group:	GCV - RSK175 CO2				
Last Update:	28-Apr-2023 07:19:09	Calib Date:	27-Apr-2023 10:37:00		
Integrator:	Genie				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\19506-B\20230427-82537.b\312023_04_27BB.0010.d				
Column 1 :	HP Plot (0.00 mm)		Det: 0FIDA		
Process Host:	CTX1628				

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Carbon dioxide	2.043	2.054	-0.011	297170647	H 89550	90322	

Reagents:

EPH_CO2MS_00004 Amount Added: 250.00 Units: uL

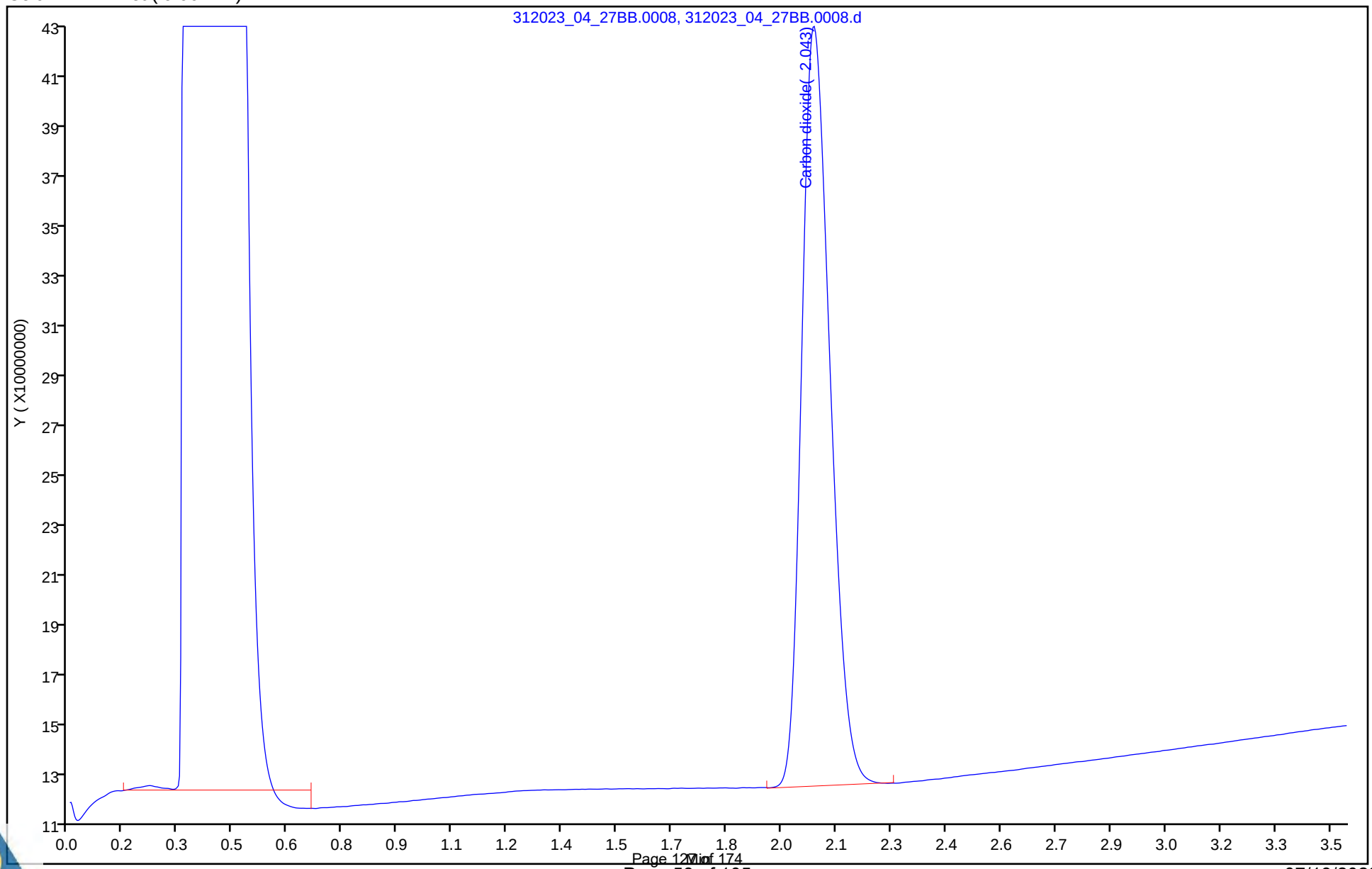
Report Date: 28-Apr-2023 07:19:09 Chrom Revision: 2.3 20-Apr-2023 08:27:48

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19506-B\20230427-82537.b\312023_04_27BB.0008.d

Injection Date:	27-Apr-2023 10:22:00	Instrument ID:	19506-B	Operator ID:	
Lims ID:	ic			Worklist Smp#:	8
Client ID:					
Purge Vol:	1.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	RSK_CO2_19506B	Limit Group:	GCV - RSK175 CO2		

Column: HP Plot (0.00 mm)



Report Date: 28-Apr-2023 07:19:10 Chrom Revision: 2.3 20-Apr-2023 08:27:48

Eurofins Lancaster Laboratories Environment Testing, LLC

Target Compound Quantitation Report

Data File:	\\chromfs\Lancaster\ChromData\19506-B\20230427-82537.b\312023_04_27BB.0009.d				
Lims ID:	ic				
Client ID:					
Sample Type:	IC	Calib Level:	5		
Inject. Date:	27-Apr-2023 10:30:00	ALS Bottle#:	0	Worklist Smp#:	9
Purge Vol:	1.000 mL	Dil. Factor:	1.0000		
Sample Info:					
Misc. Info.:	410-0082537-009				
Operator ID:		Instrument ID:	19506-B		
Sublist:	chrom-RSK_CO2_19506B*sub1				
Method:	\\chromfs\Lancaster\ChromData\19506-B\20230427-82537.b\RSK_CO2_19506B.m				
Limit Group:	GCV - RSK175 CO2				
Last Update:	28-Apr-2023 07:19:10	Calib Date:	27-Apr-2023 10:37:00		
Integrator:	Genie				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\19506-B\20230427-82537.b\312023_04_27BB.0010.d				
Column 1 :	HP Plot (0.00 mm)		Det: 0FIDA		
Process Host:	CTX1628				

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Carbon dioxide	2.024	2.054	-0.030	561047460	H 179100	170525	

Reagents:

EPH_CO2MS_00004 Amount Added: 500.00 Units: uL

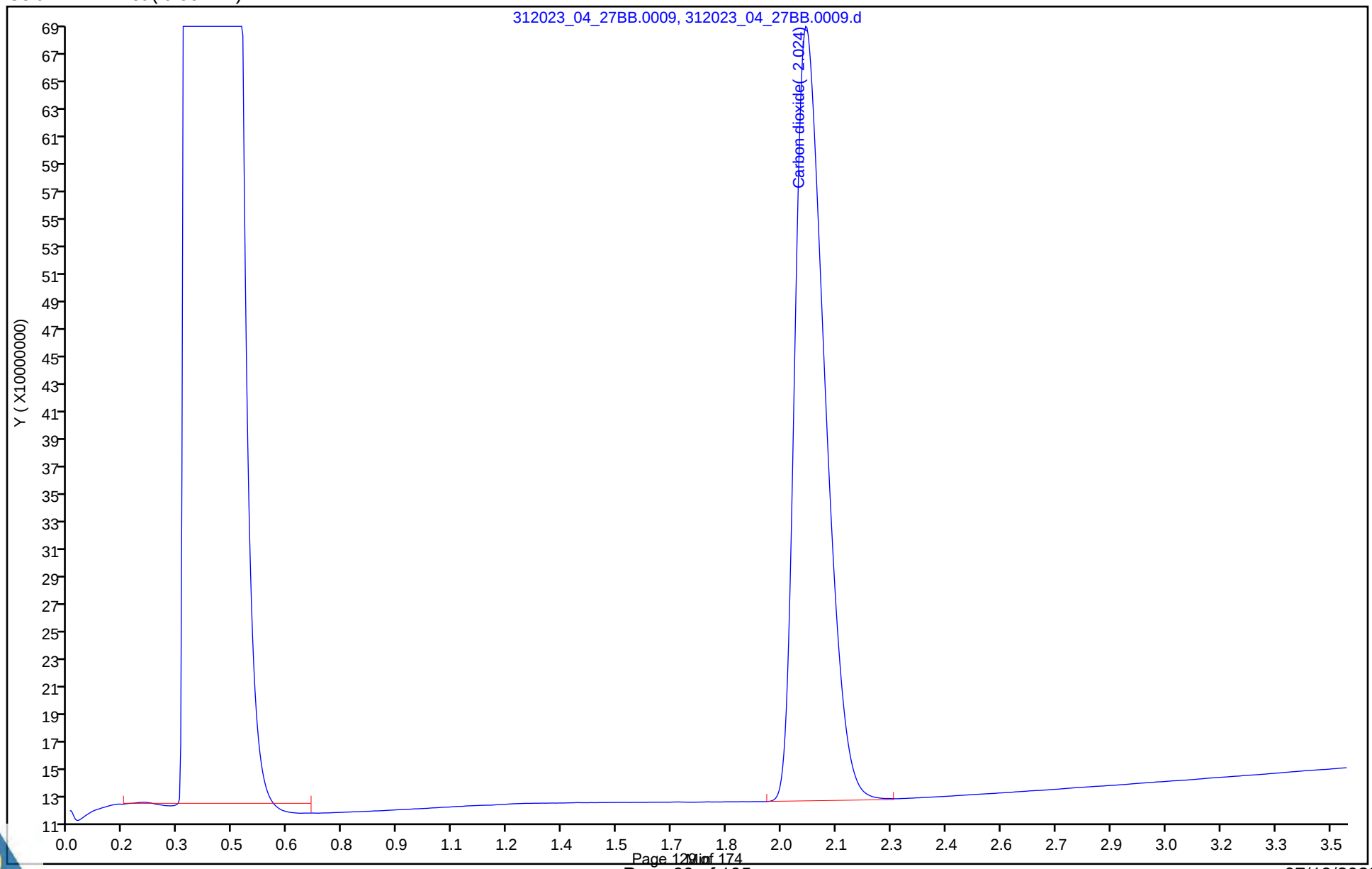
Report Date: 28-Apr-2023 07:19:10 Chrom Revision: 2.3 20-Apr-2023 08:27:48

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19506-B\20230427-82537.b\312023_04_27BB.0009.d

Injection Date:	27-Apr-2023 10:30:00	Instrument ID:	19506-B	Operator ID:	
Lims ID:	ic			Worklist Smp#:	9
Client ID:					
Purge Vol:	1.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	RSK_CO2_19506B	Limit Group:	GCV - RSK175 CO2		

Column: HP Plot (0.00 mm)



Report Date: 28-Apr-2023 07:19:12 Chrom Revision: 2.3 20-Apr-2023 08:27:48

Eurofins Lancaster Laboratories Environment Testing, LLC

Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19506-B\20230427-82537.b\312023_04_27BB.0010.d
Lims ID: ic
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 27-Apr-2023 10:37:00 ALS Bottle#: 0 Worklist Smp#: 10
Purge Vol: 1.000 mL Dil. Factor: 1.0000
Sample Info:
Misc. Info.: 410-0082537-010
Operator ID: Instrument ID: 19506-B
Sublist: chrom-RSK_CO2_19506B*sub1

Method: \\chromfs\Lancaster\ChromData\19506-B\20230427-82537.b\RSK_CO2_19506B.m
Limit Group: GCV - RSK175 CO2
Last Update: 28-Apr-2023 07:19:11 Calib Date: 27-Apr-2023 10:37:00
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19506-B\20230427-82537.b\312023_04_27BB.0010.d

Column 1 : HP Plot (0.00 mm) Det: 0FIDA
Process Host: CTX1628

First Level Reviewer: WN7O Date: 28-Apr-2023 07:17:52

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Carbon dioxide	1.983	2.054	-0.071	989211697H	358200	300661	Ma

QC Flag Legend

Processing Flags
H - Response Measured by Height
Review Flags
M - Manually Integrated
a - User Assigned ID

Reagents:

EPH_CO2MS_00004 Amount Added: 1000.00 Units: uL

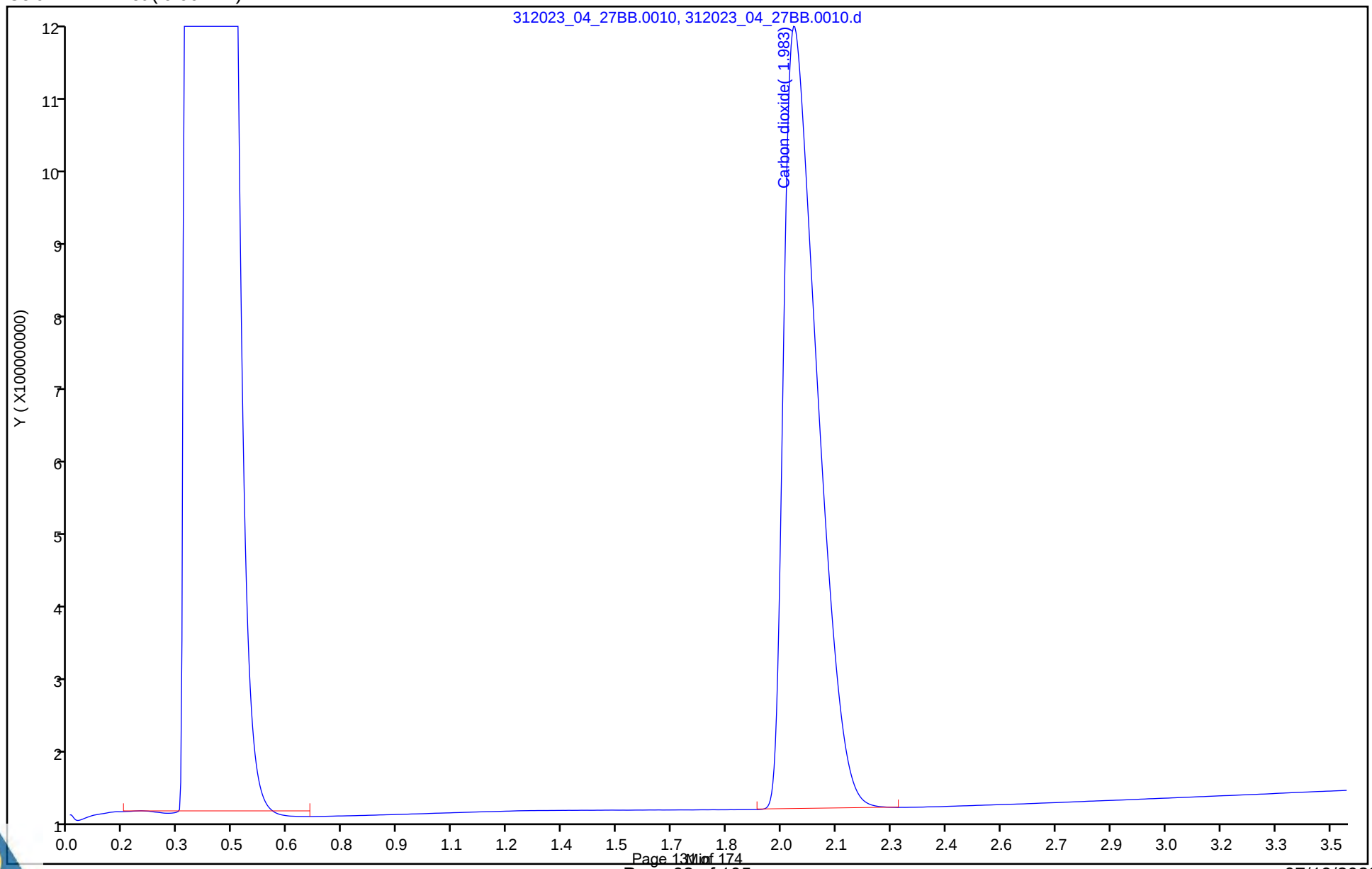
Report Date: 28-Apr-2023 07:19:12 Chrom Revision: 2.3 20-Apr-2023 08:27:48

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19506-B\20230427-82537.b\312023_04_27BB.0010.d

Injection Date:	27-Apr-2023 10:37:00	Instrument ID:	19506-B	Operator ID:	
Lims ID:	ic			Worklist Smp#:	10
Client ID:					
Purge Vol:	1.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	RSK_CO2_19506B	Limit Group:	GCV - RSK175 CO2		

Column: HP Plot (0.00 mm)



Report Date: 28-Apr-2023 07:19:12

Chrom Revision: 2.3 20-Apr-2023 08:27:48 Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

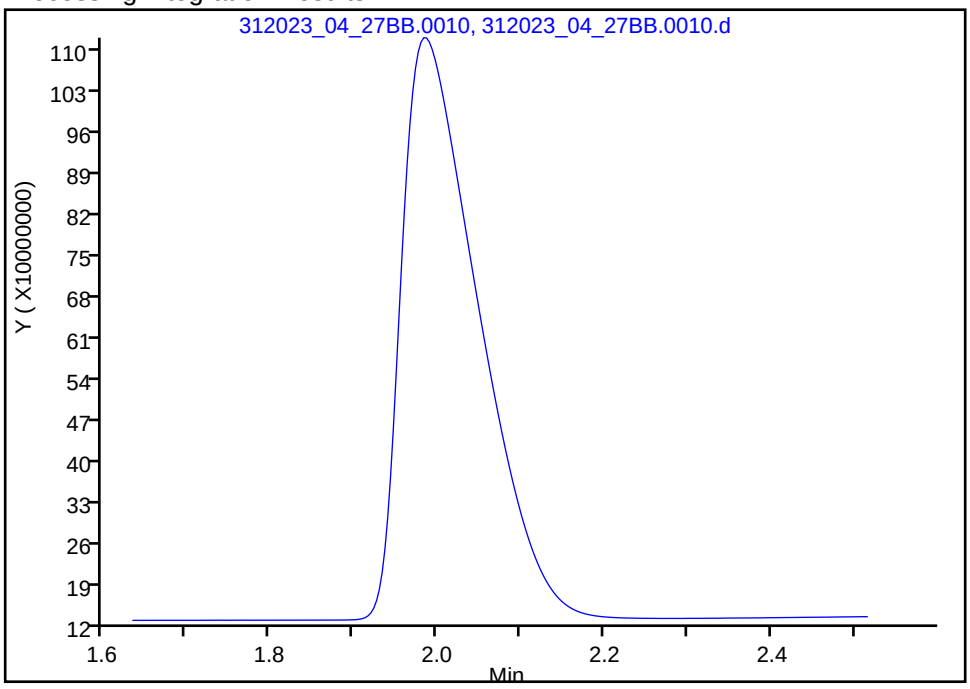
Data File:	\\chromfs\Lancaster\ChromData\19506-B\20230427-82537.b\312023_04_27BB.0010.d		
Injection Date:	27-Apr-2023 10:37:00	Instrument ID:	19506-B
Lims ID:	ic		
Client ID:			
Operator ID:		ALS Bottle#:	0 Worklist Smp#: 10
Purge Vol:	1.000 mL	Dil. Factor:	1.0000
Method:	RSK_CO2_19506B	Limit Group:	GCV - RSK175 CO2
Column:	HP Plot (0.00 mm)	Detector	0FIDA

1 Carbon dioxide, CAS: 124-38-9

Signal: 1

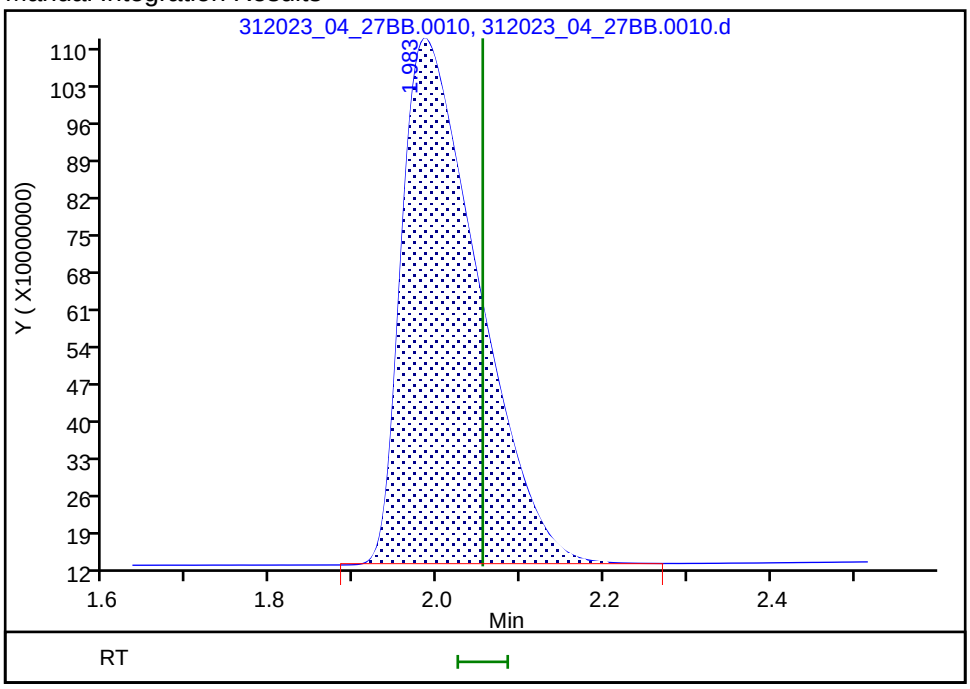
Not Detected
Expected RT: 2.05

Processing Integration Results



Manual Integration Results

RT: 1.98
Height: 989211697
Amount: 300661
Amount Units: ug/l



Reviewer: WN7O, 28-Apr-2023 07:17:41
Audit Action: Manually Integrated
Audit Reason: Baseline Smoothing

Calibration / Carbon dioxide

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	HEIGHT
RF Rounding:	0

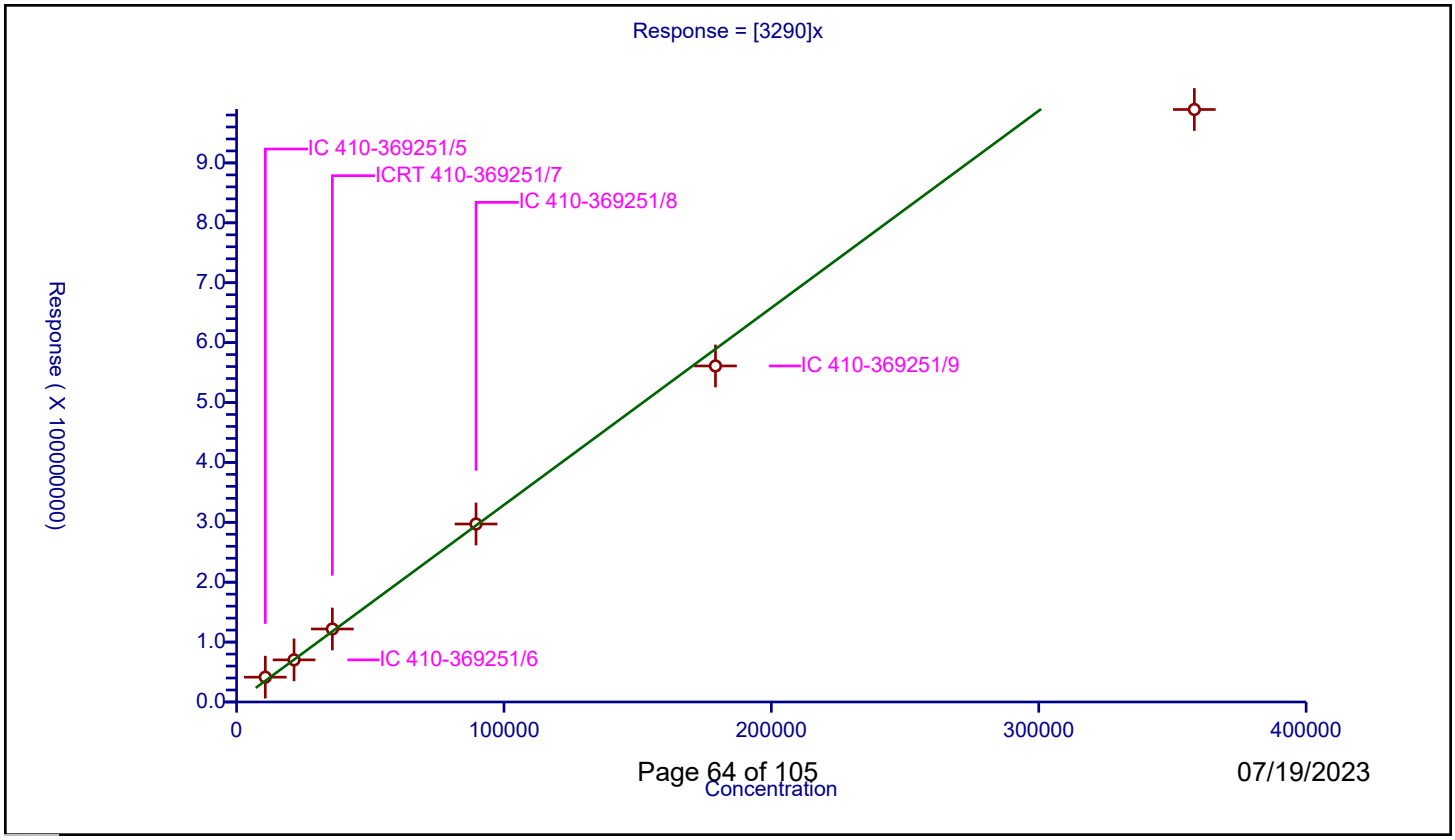
Curve Coefficients

Intercept:	0
Slope:	3290

Error Coefficients

Standard Error:	85700000
Relative Standard Error:	10.8
Correlation Coefficient:	0.995
Coefficient of Determination (Adjusted):	0.977

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 410-369251/5	10746.0	41411686.0			3853.683789	Y
2	IC 410-369251/6	21492.0	70308888.0			3271.398102	Y
3	ICRT 410-369251/7	35820.0	121893696.0			3402.950754	Y
4	IC 410-369251/8	89550.0	297170647.0			3318.48852	Y
5	IC 410-369251/9	179100.0	561047460.0			3132.5933	Y
6	IC 410-369251/10	358200.0	989211697.0			2761.618361	Y



FORM VII
GC VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-134801-1

SDG No.:

Lab Sample ID: ICV 410-369251/13 Calibration Date: 04/27/2023 11:01

Instrument ID: 19506-B Calib Start Date: 04/27/2023 09:59

GC Column: HP Plot ID: 0.53(mm) Calib End Date: 04/27/2023 10:37

Lab File ID: 312023_04_27BB.0013.d Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Carbon dioxide	Ave	3290	3122		33200	35000	-5.1	15.0

FORM VII
GC VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-134801-1

SDG No.:

Lab Sample ID: ICV 410-369251/13 Calibration Date: 04/27/2023 11:01

Instrument ID: 19506-B Calib Start Date: 04/27/2023 09:59

GC Column: HP Plot ID: 0.53(mm) Calib End Date: 04/27/2023 10:37

Lab File ID: 312023_04_27BB.0013.d Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Carbon dioxide	2.06	2.02	2.08

Report Date: 28-Apr-2023 08:51:00 Chrom Revision: 2.3 20-Apr-2023 08:27:48

Eurofins Lancaster Laboratories Environment Testing, LLC

Target Compound Quantitation Report

Data File:	\\chromfs\Lancaster\ChromData\19506-B\20230427-82537.b\312023_04_27BB.0013.d				
Lims ID:	icv				
Client ID:					
Sample Type:	ICV				
Inject. Date:	27-Apr-2023 11:01:00	ALS Bottle#:	0	Worklist Smp#:	13
Purge Vol:	1.000 mL	Dil. Factor:	1.0000		
Sample Info:					
Misc. Info.:	410-0082537-013				
Operator ID:		Instrument ID:	19506-B		
Sublist:					
Method:	\\chromfs\Lancaster\ChromData\19506-B\20230427-82537.b\RSK_CO2_19506B.m				
Limit Group:	GCV - RSK175 CO2				
Last Update:	28-Apr-2023 08:50:24	Calib Date:	27-Apr-2023 10:37:00		
Integrator:	Genie				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\19506-B\20230427-82537.b\312023_04_27BB.0010.d				
Column 1 :	HP Plot (0.00 mm)		Det: 0FIDA		
Process Host:	CTX1654				

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Carbon dioxide	2.057	2.054	0.003	109307674	H 35008	33223	

Reagents:

EPH_CO2ICV_00002 Amount Added: 320.00 Units: uL

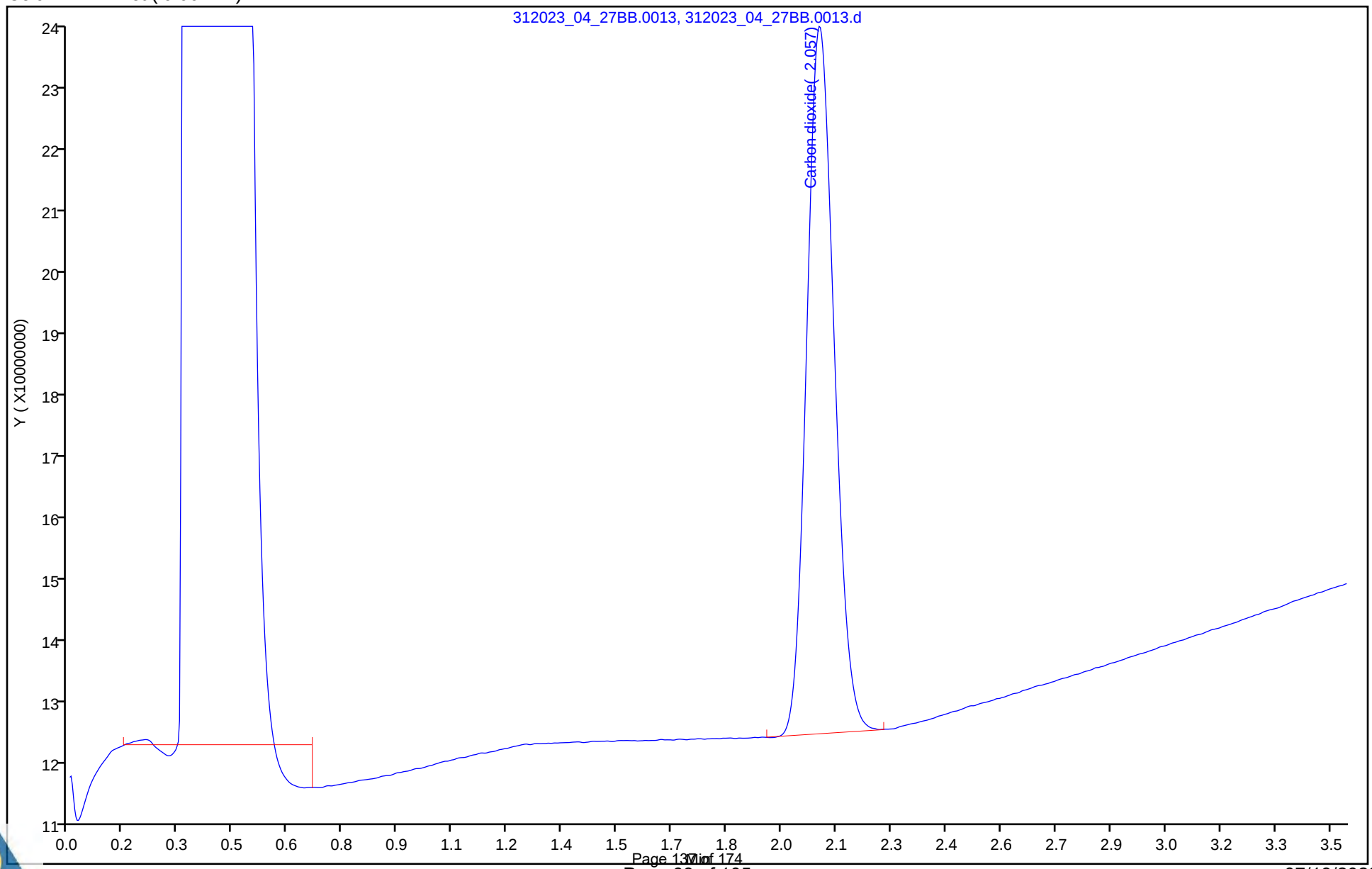
Report Date: 28-Apr-2023 08:51:00 Chrom Revision: 2.3 20-Apr-2023 08:27:48

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19506-B\20230427-82537.b\312023_04_27BB.0013.d

Injection Date:	27-Apr-2023 11:01:00	Instrument ID:	19506-B	Operator ID:	
Lims ID:	icv			Worklist Smp#:	13
Client ID:					
Purge Vol:	1.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	RSK_CO2_19506B	Limit Group:	GCV - RSK175 CO2		

Column: HP Plot (0.00 mm)



FORM VII
GC VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-134801-1

SDG No.:

Lab Sample ID: CCVRT 410-397918/2 Calibration Date: 07/18/2023 10:18

Instrument ID: 19506-B Calib Start Date: 04/27/2023 09:59

GC Column: HP Plot ID: 0.53(mm) Calib End Date: 04/27/2023 10:37

Lab File ID: 312023_07_18BB.0002.d Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Carbon dioxide	Ave	3290	3654		39800	35800	11.1	15.0

FORM VII
GC VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-134801-1

SDG No.:

Lab Sample ID: CCVRT 410-397918/2 Calibration Date: 07/18/2023 10:18

Instrument ID: 19506-B Calib Start Date: 04/27/2023 09:59

GC Column: HP Plot ID: 0.53(mm) Calib End Date: 04/27/2023 10:37

Lab File ID: 312023_07_18BB.0002.d Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Carbon dioxide	2.05	2.02	2.08

Report Date: 19-Jul-2023 03:23:28 Chrom Revision: 2.3 11-Jul-2023 11:49:10

Eurofins Lancaster Laboratories Environment Testing, LLC

Target Compound Quantitation Report

Data File:	\\chromfs\Lancaster\ChromData\19506-B\20230718-89205.b\312023_07_18BB.0002.d				
Lims ID:	ccvrt				
Client ID:					
Sample Type:	CCVRT				
Inject. Date:	18-Jul-2023 10:18:00	ALS Bottle#:	0	Worklist Smp#:	2
Purge Vol:	1.000 mL	Dil. Factor:	1.0000		
Sample Info:	ccvrt				
Misc. Info.:	410-0089205-002				
Operator ID:		Instrument ID:	19506-B		
Sublist:	chrom-RSK_CO2_19506B*sub1				
Method:	\\chromfs\Lancaster\ChromData\19506-B\20230718-89205.b\RSK_CO2_19506B.m				
Limit Group:	GCV - RSK175 CO2				
Last Update:	19-Jul-2023 03:23:28	Calib Date:	27-Apr-2023 10:37:00		
Integrator:	Genie				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\19506-B\20230427-82537.b\312023_04_27BB.0010.d				
Column 1 :	HP Plot (0.00 mm)		Det: 0FIDA		
Process Host:	CTX1624				

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Carbon dioxide	2.054	2.054	0.000	130875039H	35820	39778	

Reagents:

EPH_CO2MS_00006 Amount Added: 100.00 Units: uL

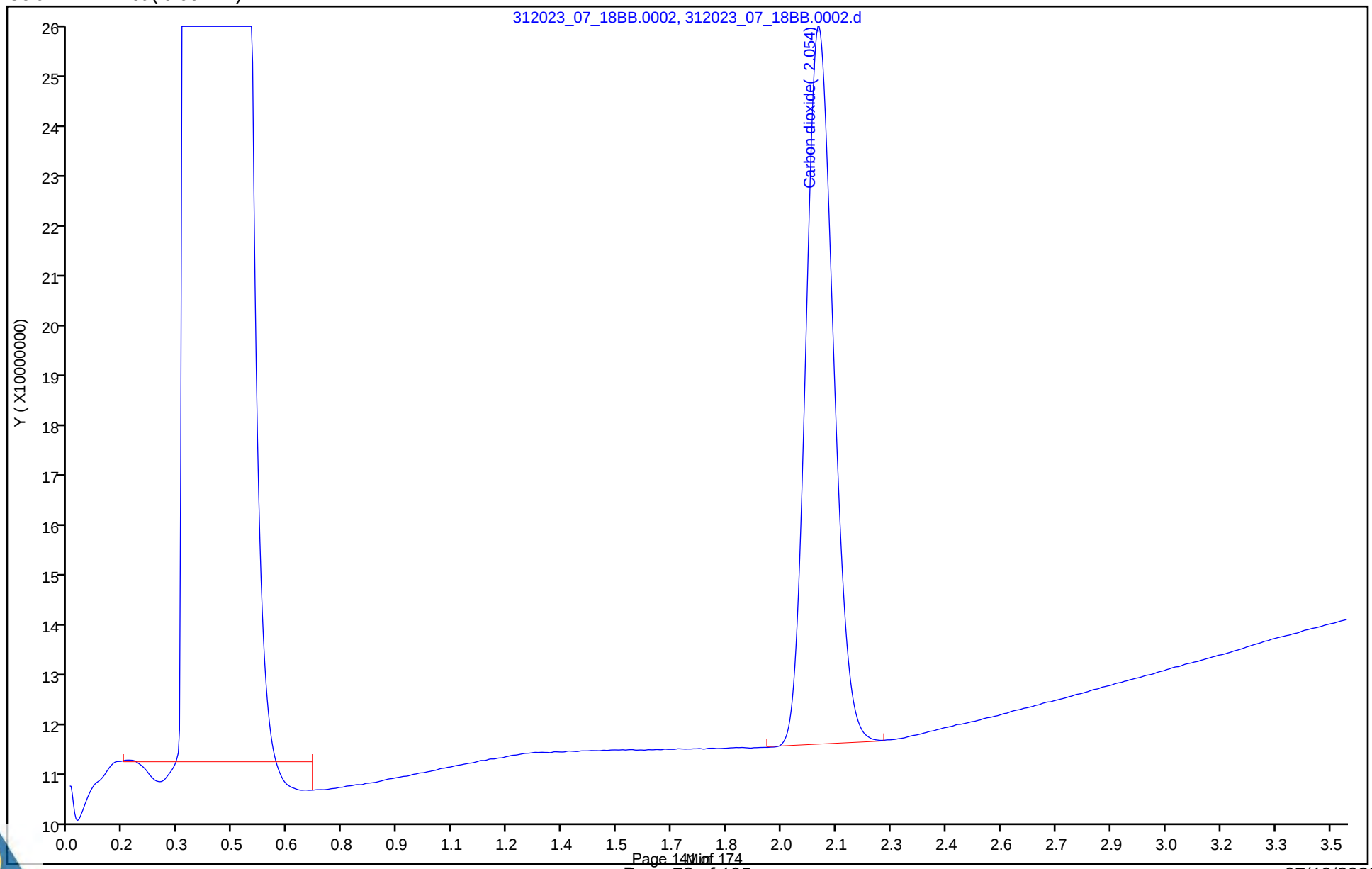
Report Date: 19-Jul-2023 03:23:28 Chrom Revision: 2.3 11-Jul-2023 11:49:10

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19506-B\20230718-89205.b\312023_07_18BB.0002.d

Injection Date:	18-Jul-2023 10:18:00	Instrument ID:	19506-B	Operator ID:	
Lims ID:	ccvrt			Worklist Smp#:	2
Client ID:					
Purge Vol:	1.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	RSK_CO2_19506B	Limit Group:	GCV - RSK175 CO2		

Column: HP Plot (0.00 mm)



FORM VII
GC VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-134801-1

SDG No.:

Lab Sample ID: CCV 410-397918/13 Calibration Date: 07/18/2023 14:37

Instrument ID: 19506-B Calib Start Date: 04/27/2023 09:59

GC Column: HP Plot ID: 0.53(mm) Calib End Date: 04/27/2023 10:37

Lab File ID: 312023_07_18BB.0013.d Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Carbon dioxide	Ave	3290	3195		34800	35800	-2.9	15.0

FORM VII
GC VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-134801-1

SDG No.:

Lab Sample ID: CCV 410-397918/13 Calibration Date: 07/18/2023 14:37

Instrument ID: 19506-B Calib Start Date: 04/27/2023 09:59

GC Column: HP Plot ID: 0.53(mm) Calib End Date: 04/27/2023 10:37

Lab File ID: 312023_07_18BB.0013.d Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Carbon dioxide	2.06	2.02	2.08

Report Date: 19-Jul-2023 03:23:32 Chrom Revision: 2.3 11-Jul-2023 11:49:10

Eurofins Lancaster Laboratories Environment Testing, LLC

Target Compound Quantitation Report

Data File:	\\chromfs\Lancaster\ChromData\19506-B\20230718-89205.b\312023_07_18BB.0013.d				
Lims ID:	ccv				
Client ID:					
Sample Type:	CCV				
Inject. Date:	18-Jul-2023 14:37:00	ALS Bottle#:	0	Worklist Smp#:	13
Purge Vol:	1.000 mL	Dil. Factor:	1.0000		
Sample Info:					
Misc. Info.:	410-0089205-013				
Operator ID:		Instrument ID:	19506-B		
Sublist:	chrom-RSK_CO2_19506B*sub1				
Method:	\\chromfs\Lancaster\ChromData\19506-B\20230718-89205.b\RSK_CO2_19506B.m				
Limit Group:	GCV - RSK175 CO2				
Last Update:	19-Jul-2023 03:23:32	Calib Date:	27-Apr-2023 10:37:00		
Integrator:	Genie				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\19506-B\20230427-82537.b\312023_04_27BB.0010.d				
Column 1 :	HP Plot (0.00 mm)		Det: 0FIDA		
Process Host:	CTX1624				
First Level Reviewer: LXF2		Date:	19-Jul-2023 03:18:11		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Carbon dioxide	2.056	2.054	0.002	114461234	H 35820	34789	

QC Flag Legend

Processing Flags

H - Response Measured by Height

Reagents:

EPH_CO2MS_00006 Amount Added: 100.00 Units: uL

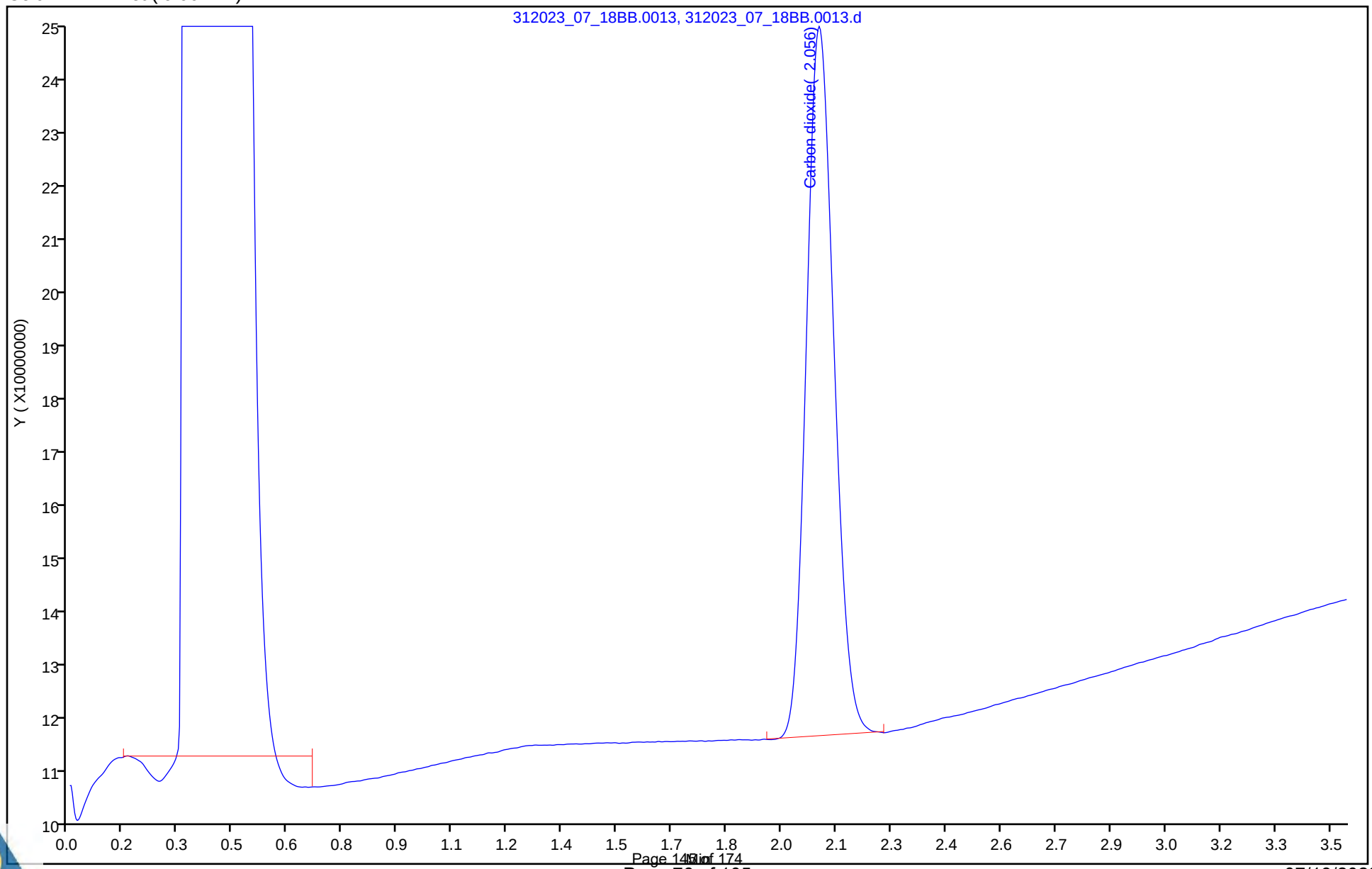
Report Date: 19-Jul-2023 03:23:32 Chrom Revision: 2.3 11-Jul-2023 11:49:10

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19506-B\20230718-89205.b\312023_07_18BB.0013.d

Injection Date:	18-Jul-2023 14:37:00	Instrument ID:	19506-B	Operator ID:	
Lims ID:	ccv			Worklist Smp#:	13
Client ID:					
Purge Vol:	1.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	RSK_CO2_19506B	Limit Group:	GCV - RSK175 CO2		

Column: HP Plot (0.00 mm)



FORM VII
GC VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-134801-1

SDG No.:

Lab Sample ID: CCV 410-397918/35 Calibration Date: 07/18/2023 17:35

Instrument ID: 19506-B Calib Start Date: 04/27/2023 09:59

GC Column: HP Plot ID: 0.53(mm) Calib End Date: 04/27/2023 10:37

Lab File ID: 312023_07_18BB.0035.d Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Carbon dioxide	Ave	3290	2961		32200	35800	-10.0	15.0

FORM VII
GC VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-134801-1

SDG No.:

Lab Sample ID: CCV 410-397918/35 Calibration Date: 07/18/2023 17:35

Instrument ID: 19506-B Calib Start Date: 04/27/2023 09:59

GC Column: HP Plot ID: 0.53(mm) Calib End Date: 04/27/2023 10:37

Lab File ID: 312023_07_18BB.0035.d Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Carbon dioxide	2.06	2.02	2.08

Report Date: 19-Jul-2023 03:23:40 Chrom Revision: 2.3 11-Jul-2023 11:49:10

Eurofins Lancaster Laboratories Environment Testing, LLC

Target Compound Quantitation Report

Data File:	\\chromfs\Lancaster\ChromData\19506-B\20230718-89205.b\312023_07_18BB.0035.d				
Lims ID:	ccv				
Client ID:					
Sample Type:	CCV				
Inject. Date:	18-Jul-2023 17:35:00	ALS Bottle#:	0	Worklist Smp#:	35
Purge Vol:	1.000 mL	Dil. Factor:	1.0000		
Sample Info:					
Misc. Info.:	410-0089205-035				
Operator ID:		Instrument ID:	19506-B		
Sublist:	chrom-RSK_CO2_19506B*sub1				
Method:	\\chromfs\Lancaster\ChromData\19506-B\20230718-89205.b\RSK_CO2_19506B.m				
Limit Group:	GCV - RSK175 CO2				
Last Update:	19-Jul-2023 03:23:39	Calib Date:	27-Apr-2023 10:37:00		
Integrator:	Genie				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\19506-B\20230427-82537.b\312023_04_27BB.0010.d				
Column 1 :	HP Plot (0.00 mm)		Det: 0FIDA		
Process Host:	CTX1624				

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Carbon dioxide	2.056	2.054	0.002	106059852	H 35820	32236	

Reagents:

EPH_CO2MS_00006 Amount Added: 100.00 Units: uL

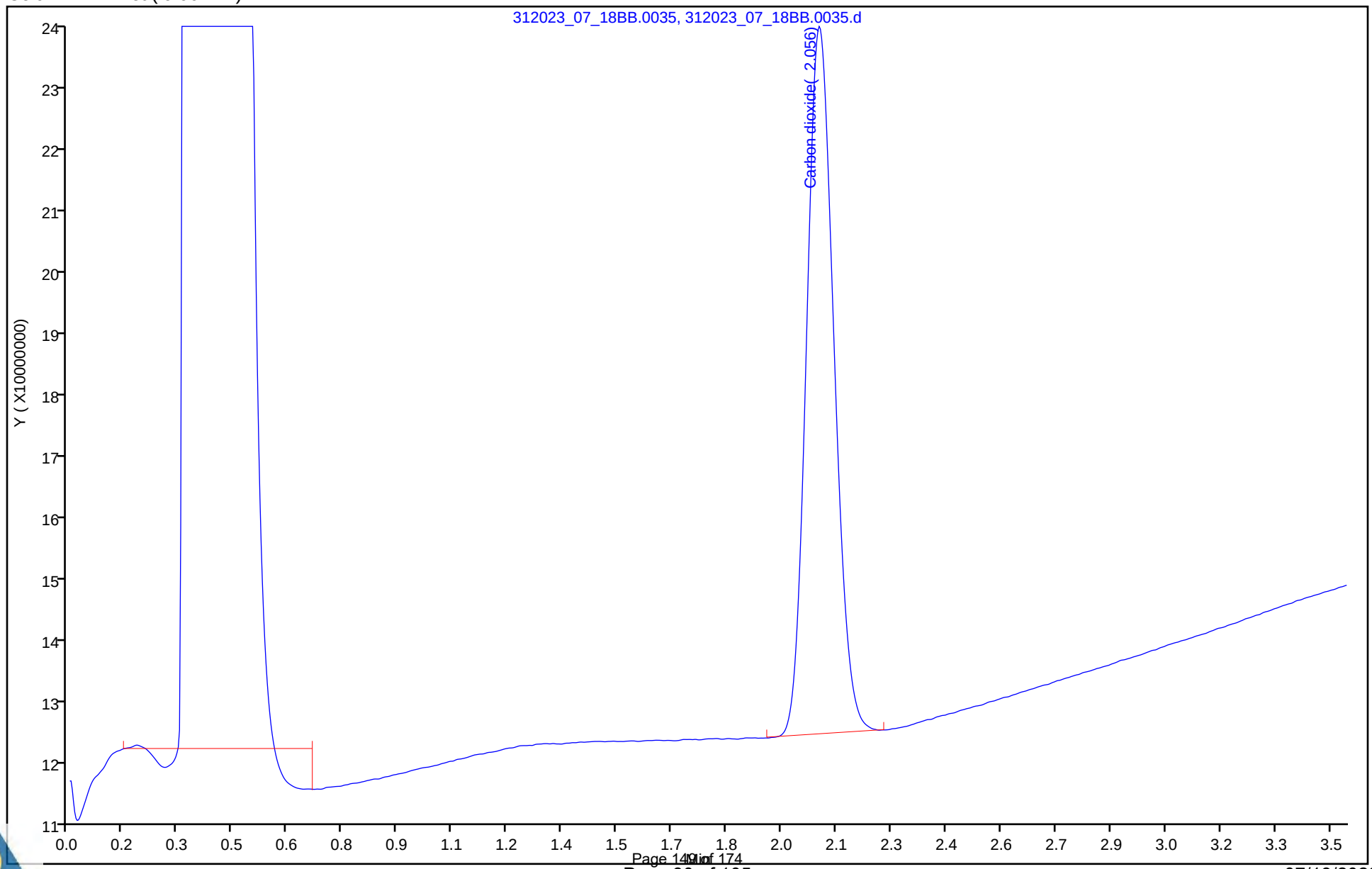
Report Date: 19-Jul-2023 03:23:40 Chrom Revision: 2.3 11-Jul-2023 11:49:10

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19506-B\20230718-89205.b\312023_07_18BB.0035.d

Injection Date:	18-Jul-2023 17:35:00	Instrument ID:	19506-B	Operator ID:	
Lims ID:	ccv			Worklist Smp#:	35
Client ID:					
Purge Vol:	1.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	RSK_CO2_19506B	Limit Group:	GCV - RSK175 CO2		

Column: HP Plot (0.00 mm)



FORM VII
GC VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-134801-1

SDG No.:

Lab Sample ID: CCV 410-397918/46 Calibration Date: 07/18/2023 19:05

Instrument ID: 19506-B Calib Start Date: 04/27/2023 09:59

GC Column: HP Plot ID: 0.53(mm) Calib End Date: 04/27/2023 10:37

Lab File ID: 312023_07_18BB.0046.d Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Carbon dioxide	Ave	3290	3120		34000	35800	-5.2	15.0

FORM VII
GC VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-134801-1

SDG No.:

Lab Sample ID: CCV 410-397918/46 Calibration Date: 07/18/2023 19:05

Instrument ID: 19506-B Calib Start Date: 04/27/2023 09:59

GC Column: HP Plot ID: 0.53(mm) Calib End Date: 04/27/2023 10:37

Lab File ID: 312023_07_18BB.0046.d Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Carbon dioxide	2.05	2.02	2.08

Report Date: 19-Jul-2023 03:23:43 Chrom Revision: 2.3 11-Jul-2023 11:49:10

Eurofins Lancaster Laboratories Environment Testing, LLC

Target Compound Quantitation Report

Data File:	\\chromfs\Lancaster\ChromData\19506-B\20230718-89205.b\312023_07_18BB.0046.d				
Lims ID:	ccv				
Client ID:					
Sample Type:	CCV				
Inject. Date:	18-Jul-2023 19:05:00	ALS Bottle#:	0	Worklist Smp#:	46
Purge Vol:	1.000 mL	Dil. Factor:	1.0000		
Sample Info:					
Misc. Info.:	410-0089205-046				
Operator ID:		Instrument ID:	19506-B		
Sublist:	chrom-RSK_CO2_19506B*sub1				
Method:	\\chromfs\Lancaster\ChromData\19506-B\20230718-89205.b\RSK_CO2_19506B.m				
Limit Group:	GCV - RSK175 CO2				
Last Update:	19-Jul-2023 03:23:43	Calib Date:	27-Apr-2023 10:37:00		
Integrator:	Genie				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\19506-B\20230427-82537.b\312023_04_27BB.0010.d				
Column 1 :	HP Plot (0.00 mm)		Det: 0FIDA		
Process Host:	CTX1624				

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Carbon dioxide	2.054	2.054	0.000	111764320	H 35820	33970	

Reagents:

EPH_CO2MS_00006 Amount Added: 100.00 Units: uL

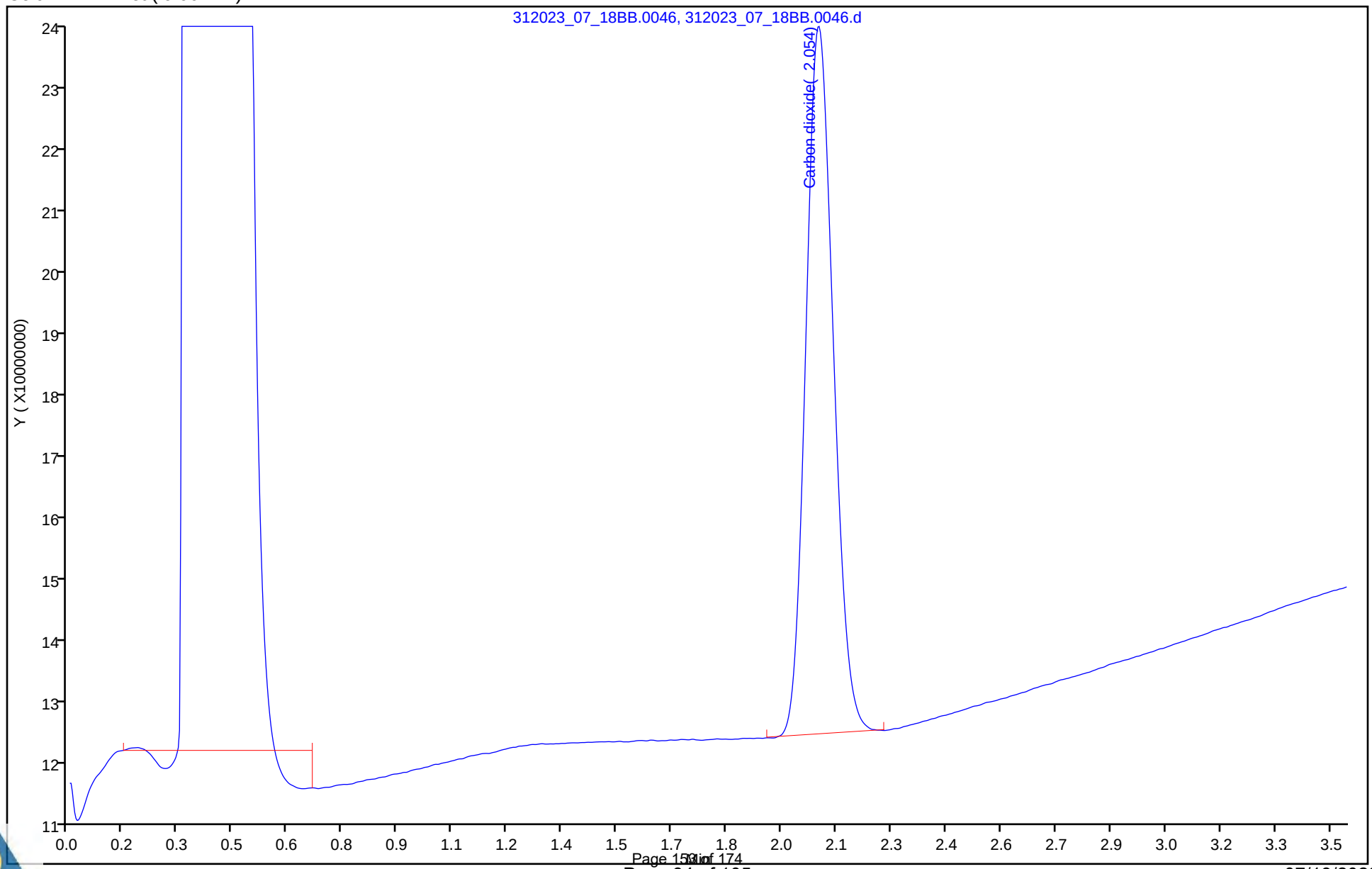
Report Date: 19-Jul-2023 03:23:43 Chrom Revision: 2.3 11-Jul-2023 11:49:10

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19506-B\20230718-89205.b\312023_07_18BB.0046.d

Injection Date:	18-Jul-2023 19:05:00	Instrument ID:	19506-B	Operator ID:	
Lims ID:	ccv			Worklist Smp#:	46
Client ID:					
Purge Vol:	1.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	RSK_CO2_19506B	Limit Group:	GCV - RSK175 CO2		

Column: HP Plot (0.00 mm)



07/19/2023

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-134801-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 410-398043/1-A

Matrix: Water Lab File ID: 312023_07_18BB.0005.d

Analysis Method: RSK-175 Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 07/18/2023 11:02

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: HP Plot ID: 0.53(mm)

Purge Volume: Heated Purge: (Y/N) N pH:

% Moisture: % Solids: Level: (low/med) Low

Analysis Batch No.: 397918 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	DL
124-38-9	Carbon dioxide	2600	U M	12000	2600

Report Date: 19-Jul-2023 03:23:29 Chrom Revision: 2.3 11-Jul-2023 11:49:10

Eurofins Lancaster Laboratories Environment Testing, LLC

Target Compound Quantitation Report

Data File:	\\chromfs\Lancaster\ChromData\19506-B\20230718-89205.b\312023_07_18BB.0005.d				
Lims ID:	MB 410-398043/1-A				
Client ID:					
Sample Type:	MB				
Inject. Date:	18-Jul-2023 11:02:00	ALS Bottle#:	0	Worklist Smp#:	5
Purge Vol:	1.000 mL	Dil. Factor:	1.0000		
Sample Info:					
Misc. Info.:	410-0089205-005				
Operator ID:		Instrument ID:	19506-B		
Method:	\\chromfs\Lancaster\ChromData\19506-B\20230718-89205.b\RSK_CO2_19506B.m				
Limit Group:	GCV - RSK175 CO2				
Last Update:	19-Jul-2023 03:23:28	Calib Date:	27-Apr-2023 10:37:00		
Integrator:	Genie				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\19506-B\20230427-82537.b\312023_04_27BB.0010.d				
Column 1 :	HP Plot (0.00 mm)		Det: 0FIDA		
Process Host:	CTX1624				
First Level Reviewer: LXF2		Date:	19-Jul-2023 03:18:24		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Carbon dioxide	2.067	2.054	0.013	1812877H		551.0	M

QC Flag Legend

Processing Flags

H - Response Measured by Height

Review Flags

M - Manually Integrated

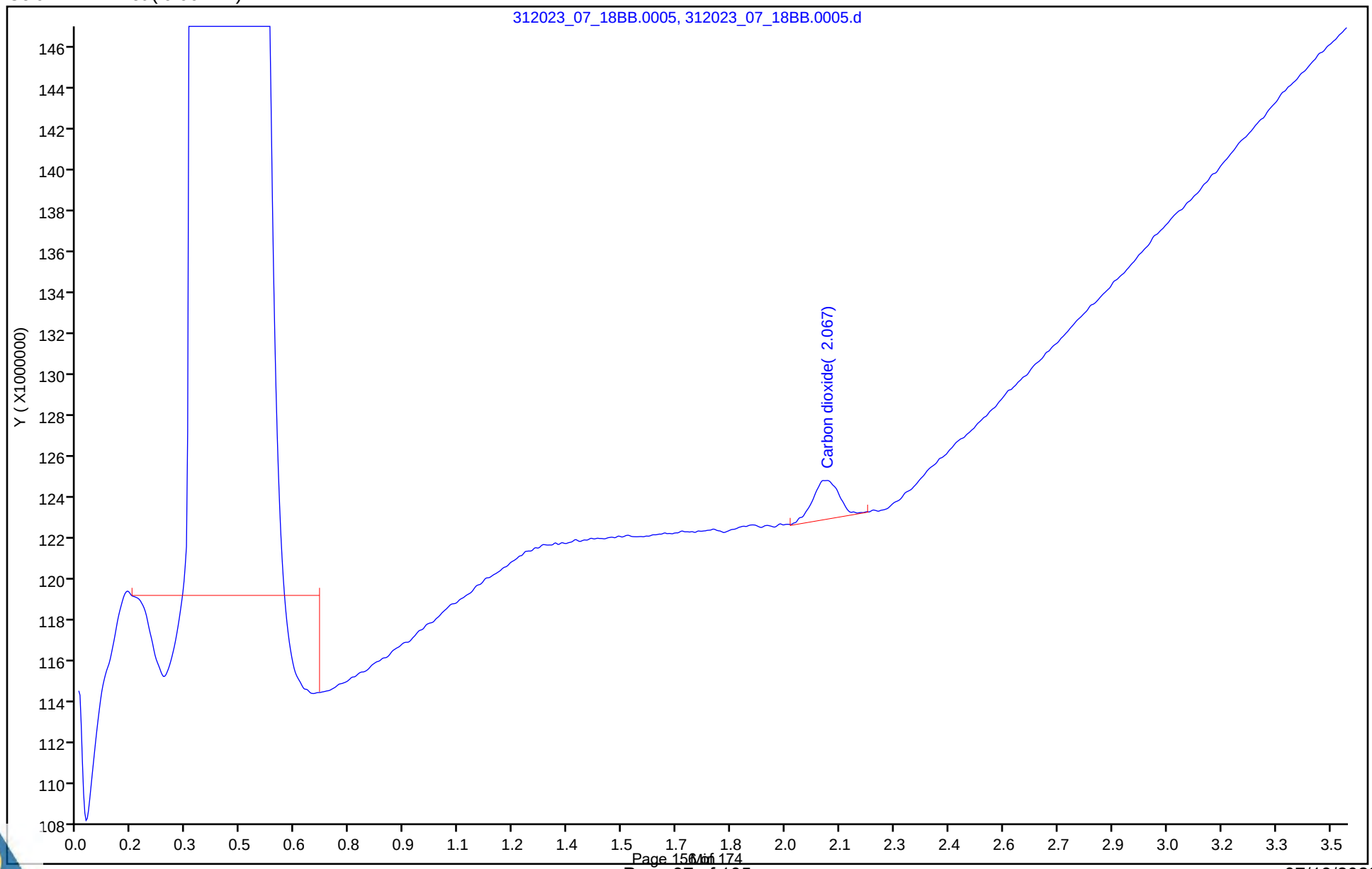
Report Date: 19-Jul-2023 03:23:29 Chrom Revision: 2.3 11-Jul-2023 11:49:10

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19506-B\20230718-89205.b\312023_07_18BB.0005.d

Injection Date:	18-Jul-2023 11:02:00	Instrument ID:	19506-B	Operator ID:	
Lims ID:	MB 410-398043/1-A			Worklist Smp#:	5
Client ID:					
Purge Vol:	1.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	RSK_CO2_19506B	Limit Group:	GCV - RSK175 CO2		

Column: HP Plot (0.00 mm)



Report Date: 19-Jul-2023 03:23:29

Chrom Revision: 2.3 11-Jul-2023 11:49:10 Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

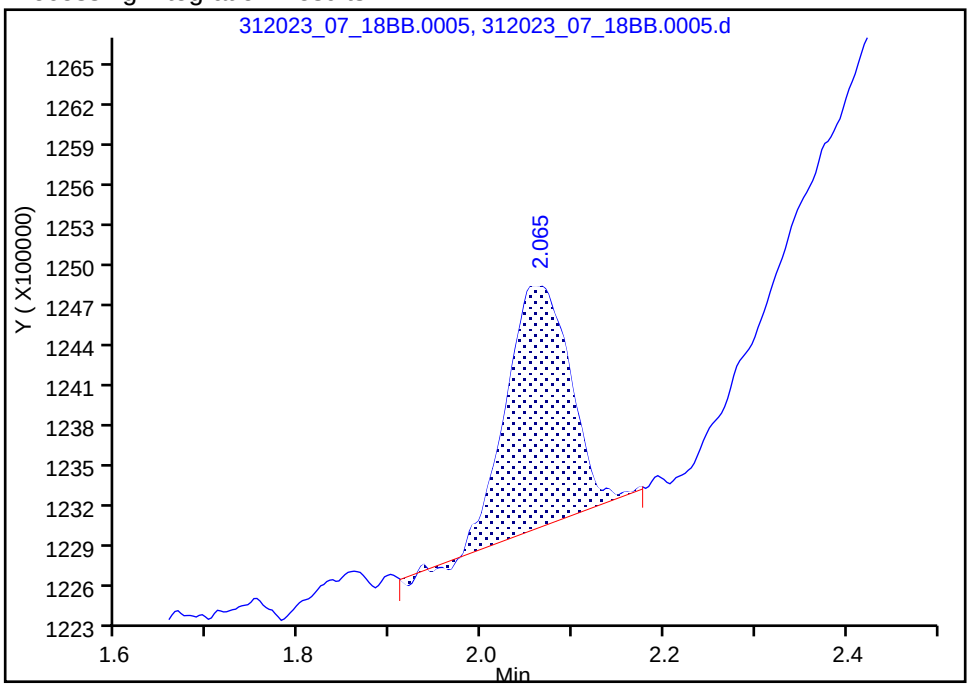
Data File:	\\chromfs\Lancaster\ChromData\19506-B\20230718-89205.b\312023_07_18BB.0005.d				
Injection Date:	18-Jul-2023 11:02:00	Instrument ID:	19506-B		
Lims ID:	MB 410-398043/1-A				
Client ID:					
Operator ID:		ALS Bottle#:	0	Worklist Smp#:	5
Purge Vol:	1.000 mL	Dil. Factor:	1.0000		
Method:	RSK_CO2_19506B	Limit Group:	GCV - RSK175 CO2		
Column:	HP Plot (0.00 mm)	Detector	0FIDA		

1 Carbon dioxide, CAS: 124-38-9

Signal: 1

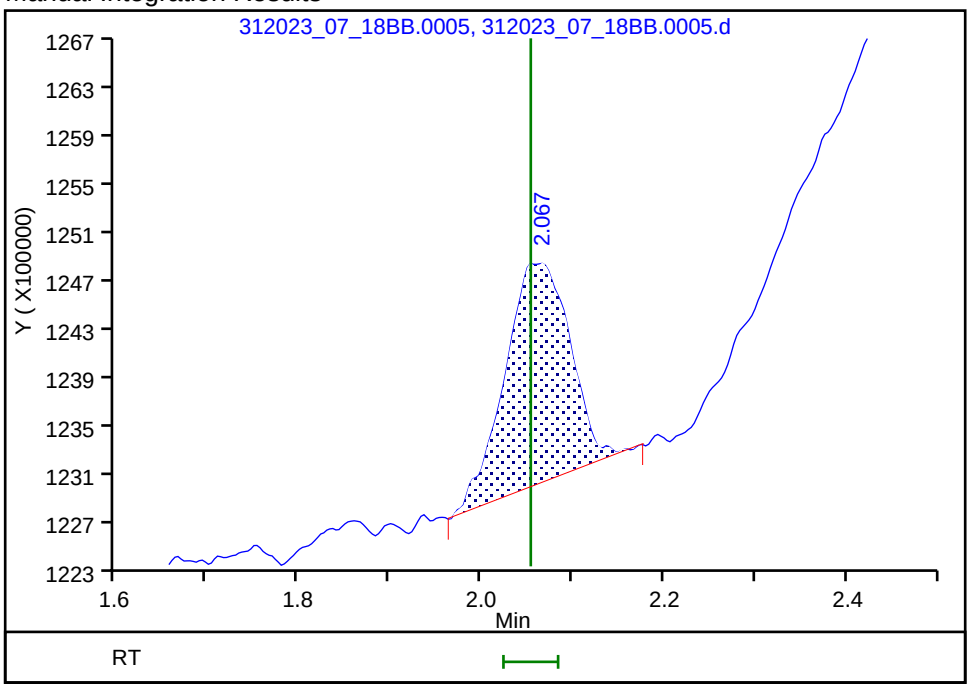
Processing Integration Results

RT: 2.07
Height: 1762920
Amount: 535.8221
Amount Units: ug/l



Manual Integration Results

RT: 2.07
Height: 1812877
Amount: 551.0060
Amount Units: ug/l



Reviewer: LXF2, 19-Jul-2023 03:20:21 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Peak not integrated

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-134801-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 410-398043/2-A

Matrix: Water Lab File ID: 312023_07_18BB.0006.d

Analysis Method: RSK-175 Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 07/18/2023 11:10

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: HP Plot ID: 0.53(mm)

Purge Volume: Heated Purge: (Y/N) N pH:

% Moisture: % Solids: Level: (low/med) Low

Analysis Batch No.: 397918 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	DL
124-38-9	Carbon dioxide	37600		12000	2600

Report Date: 19-Jul-2023 03:23:30 Chrom Revision: 2.3 11-Jul-2023 11:49:10

Eurofins Lancaster Laboratories Environment Testing, LLC

Target Compound Quantitation Report

Data File:	\\chromfs\Lancaster\ChromData\19506-B\20230718-89205.b\312023_07_18BB.0006.d				
Lims ID:	LCS 410-398043/2-A				
Client ID:					
Sample Type:	LCS				
Inject. Date:	18-Jul-2023 11:10:00	ALS Bottle#:	0	Worklist Smp#:	6
Purge Vol:	1.000 mL	Dil. Factor:	1.0000		
Sample Info:					
Misc. Info.:	410-0089205-006				
Operator ID:		Instrument ID:	19506-B		
Method:	\\chromfs\Lancaster\ChromData\19506-B\20230718-89205.b\RSK_CO2_19506B.m				
Limit Group:	GCV - RSK175 CO2				
Last Update:	19-Jul-2023 03:23:28	Calib Date:	27-Apr-2023 10:37:00		
Integrator:	Genie				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\19506-B\20230427-82537.b\312023_04_27BB.0010.d				
Column 1 :	HP Plot (0.00 mm)		Det: 0FIDA		
Process Host:	CTX1624				

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Carbon dioxide	2.053	2.054	-0.001	123864175	H 35820	37647	

Report Date: 19-Jul-2023 03:23:30 Chrom Revision: 2.3 11-Jul-2023 11:49:10

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19506-B\20230718-89205.b\312023_07_18BB.0006.d

Injection Date: 18-Jul-2023 11:10:00 Instrument ID: 19506-B Operator ID:

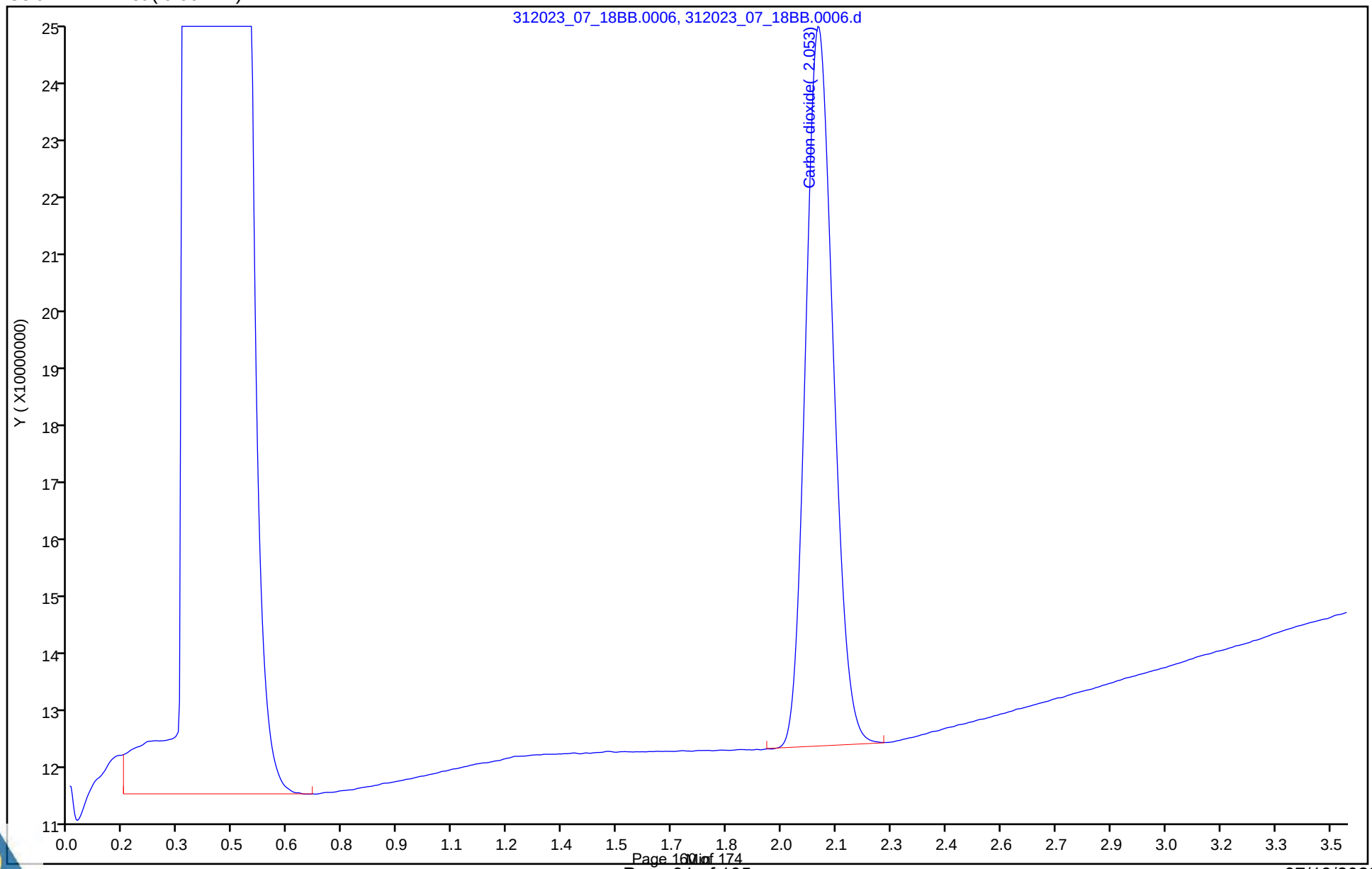
Lims ID: LCS 410-398043/2-A Worklist Smp#: 6

Client ID:

Purge Vol: 1.000 mL Dil. Factor: 1.0000 ALS Bottle#: 0

Method: RSK_CO2_19506B Limit Group: GCV - RSK175 CO2

Column: HP Plot (0.00 mm)



FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-134801-1

SDG No.:

Client Sample ID:
Lab Sample ID: LCSD 410-398043/3-A

Matrix: Water
Lab File ID: 312023_07_18BB.0007.d

Analysis Method: RSK-175
Date Collected:

Sample wt/vol: 5(mL)
Date Analyzed: 07/18/2023 11:18

Soil Aliquot Vol:
Dilution Factor: 1

Soil Extract Vol.:
GC Column: HP Plot ID: 0.53(mm)

Purge Volume:
Heated Purge: (Y/N) N pH:

% Moisture: % Solids:
Level: (low/med) Low

Analysis Batch No.: 397918
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	DL
124-38-9	Carbon dioxide	37400		12000	2600

Report Date: 19-Jul-2023 03:23:30 Chrom Revision: 2.3 11-Jul-2023 11:49:10

Eurofins Lancaster Laboratories Environment Testing, LLC

Target Compound Quantitation Report

Data File:	\\chromfs\Lancaster\ChromData\19506-B\20230718-89205.b\312023_07_18BB.0007.d				
Lims ID:	LCSD 410-398043/3-A				
Client ID:					
Sample Type:	LCSD				
Inject. Date:	18-Jul-2023 11:18:00	ALS Bottle#:	0	Worklist Smp#:	7
Purge Vol:	1.000 mL	Dil. Factor:	1.0000		
Sample Info:					
Misc. Info.:	410-0089205-007				
Operator ID:		Instrument ID:	19506-B		
Method:	\\chromfs\Lancaster\ChromData\19506-B\20230718-89205.b\RSK_CO2_19506B.m				
Limit Group:	GCV - RSK175 CO2				
Last Update:	19-Jul-2023 03:23:28	Calib Date:	27-Apr-2023 10:37:00		
Integrator:	Genie				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\19506-B\20230427-82537.b\312023_04_27BB.0010.d				
Column 1 :	HP Plot (0.00 mm)		Det: 0FIDA		
Process Host:	CTX1624				

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Carbon dioxide	2.053	2.054	-0.001	123088058	H 35820	37411	

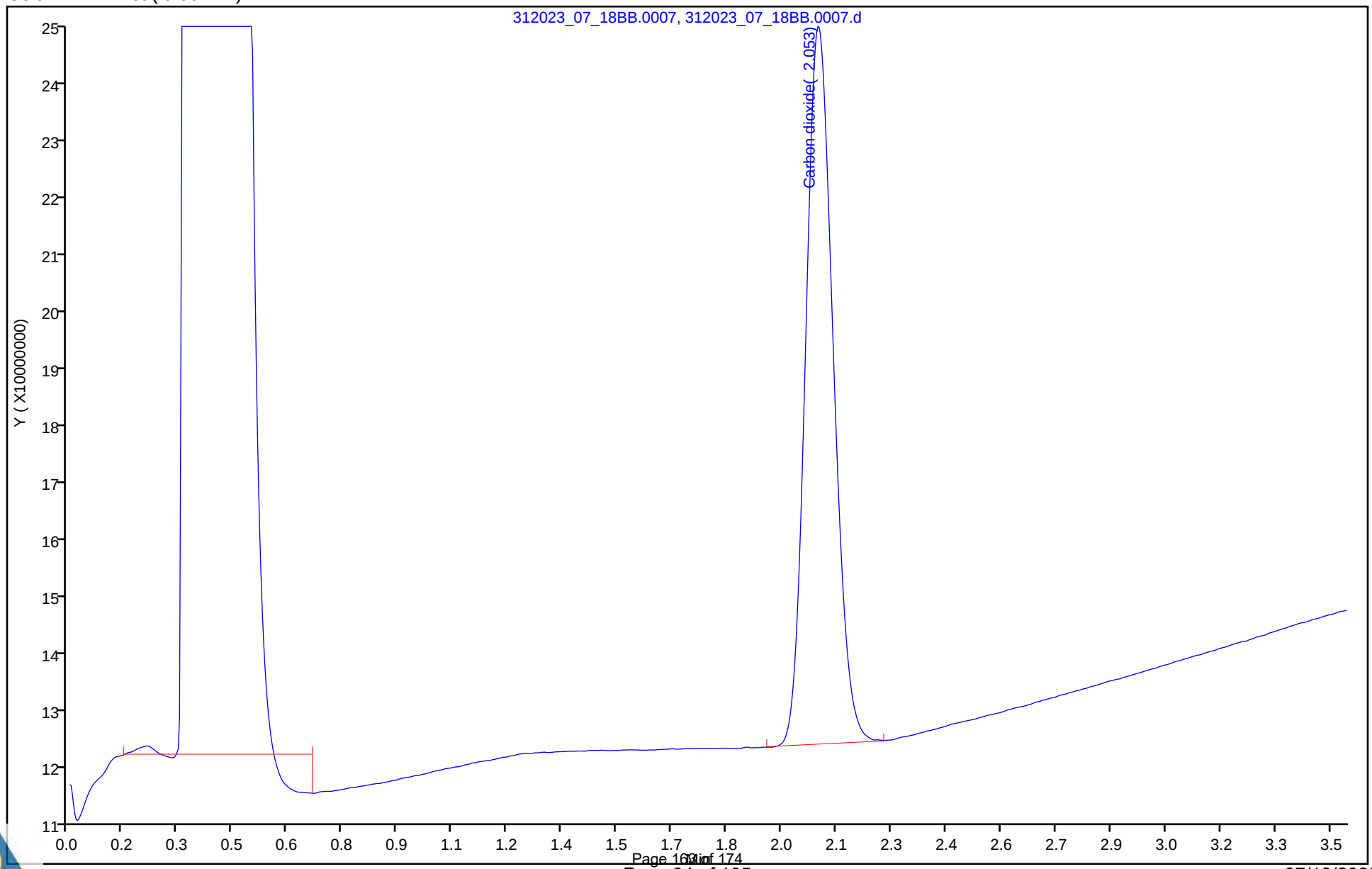
Report Date: 19-Jul-2023 03:23:30 Chrom Revision: 2.3 11-Jul-2023 11:49:10

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19506-B\20230718-89205.b\312023_07_18BB.0007.d

Injection Date:	18-Jul-2023 11:18:00	Instrument ID:	19506-B	Operator ID:	
Lims ID:	LCSD 410-398043/3-A			Worklist Smp#:	7
Client ID:					
Purge Vol:	1.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	RSK_CO2_19506B	Limit Group:	GCV - RSK175 CO2		

Column: HP Plot (0.00 mm)



GC VOA ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-134801-1

SDG No.:

Instrument ID: 19506-B Start Date: 04/27/2023 09:16

Analysis Batch Number: 369251 End Date: 04/27/2023 17:34

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
PIBLK 410-369251/3		04/27/2023 09:16	1		HP Plot 0.53(mm)
IC 410-369251/5		04/27/2023 09:59	1	312023_04_27BB.0005.d	HP Plot 0.53(mm)
IC 410-369251/6		04/27/2023 10:06	1	312023_04_27BB.0006.d	HP Plot 0.53(mm)
ICRT 410-369251/7		04/27/2023 10:14	1	312023_04_27BB.0007.d	HP Plot 0.53(mm)
IC 410-369251/8		04/27/2023 10:22	1	312023_04_27BB.0008.d	HP Plot 0.53(mm)
IC 410-369251/9		04/27/2023 10:30	1	312023_04_27BB.0009.d	HP Plot 0.53(mm)
IC 410-369251/10		04/27/2023 10:37	1	312023_04_27BB.0010.d	HP Plot 0.53(mm)
PIBLK 410-369251/11		04/27/2023 10:45	1		HP Plot 0.53(mm)
ICVL 410-369251/12		04/27/2023 10:53	1		HP Plot 0.53(mm)
ICV 410-369251/13		04/27/2023 11:01	1	312023_04_27BB.0013.d	HP Plot 0.53(mm)
ZZZZZ		04/27/2023 11:45	1		HP Plot 0.53(mm)
ZZZZZ		04/27/2023 11:52	1		HP Plot 0.53(mm)
ZZZZZ		04/27/2023 12:01	1		HP Plot 0.53(mm)
ZZZZZ		04/27/2023 12:08	1		HP Plot 0.53(mm)
ZZZZZ		04/27/2023 12:16	1		HP Plot 0.53(mm)
ZZZZZ		04/27/2023 12:24	1		HP Plot 0.53(mm)
CCV 410-369251/20		04/27/2023 12:31	1		HP Plot 0.53(mm)
ZZZZZ		04/27/2023 13:03	1		HP Plot 0.53(mm)
ZZZZZ		04/27/2023 13:10	1		HP Plot 0.53(mm)
ZZZZZ		04/27/2023 13:18	1		HP Plot 0.53(mm)
ZZZZZ		04/27/2023 13:26	1		HP Plot 0.53(mm)
ZZZZZ		04/27/2023 13:33	1		HP Plot 0.53(mm)
ZZZZZ		04/27/2023 13:41	1		HP Plot 0.53(mm)
ZZZZZ		04/27/2023 13:49	1		HP Plot 0.53(mm)
ZZZZZ		04/27/2023 13:57	1		HP Plot 0.53(mm)
ZZZZZ		04/27/2023 14:04	1		HP Plot 0.53(mm)
ZZZZZ		04/27/2023 14:12	1		HP Plot 0.53(mm)
CCV 410-369251/31		04/27/2023 14:20	1		HP Plot 0.53(mm)
ZZZZZ		04/27/2023 14:38	1		HP Plot 0.53(mm)
ZZZZZ		04/27/2023 14:50	1		HP Plot 0.53(mm)
ZZZZZ		04/27/2023 14:58	1		HP Plot 0.53(mm)
ZZZZZ		04/27/2023 15:06	1		HP Plot 0.53(mm)
ZZZZZ		04/27/2023 15:15	1		HP Plot 0.53(mm)
ZZZZZ		04/27/2023 15:23	1		HP Plot 0.53(mm)
ZZZZZ		04/27/2023 15:31	1		HP Plot 0.53(mm)
ZZZZZ		04/27/2023 15:39	1		HP Plot 0.53(mm)
ZZZZZ		04/27/2023 15:47	1		HP Plot 0.53(mm)
ZZZZZ		04/27/2023 15:56	1		HP Plot 0.53(mm)
CCV 410-369251/42		04/27/2023 16:04	1		HP Plot 0.53(mm)
ZZZZZ		04/27/2023 16:12	1		HP Plot 0.53(mm)
ZZZZZ		04/27/2023 16:20	1		HP Plot 0.53(mm)
ZZZZZ		04/27/2023 16:28	1		HP Plot 0.53(mm)

GC VOA ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-134801-1

SDG No.:

Instrument ID: 19506-B Start Date: 04/27/2023 09:16

Analysis Batch Number: 369251 End Date: 04/27/2023 17:34

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		04/27/2023 16:37	1		HP Plot 0.53(mm)
ZZZZZ		04/27/2023 16:45	1		HP Plot 0.53(mm)
ZZZZZ		04/27/2023 16:53	1		HP Plot 0.53(mm)
ZZZZZ		04/27/2023 17:01	1		HP Plot 0.53(mm)
ZZZZZ		04/27/2023 17:09	1		HP Plot 0.53(mm)
ZZZZZ		04/27/2023 17:18	1		HP Plot 0.53(mm)
ZZZZZ		04/27/2023 17:26	1		HP Plot 0.53(mm)
CCV 410-369251/53		04/27/2023 17:34	1		HP Plot 0.53(mm)

GC VOA ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-134801-1

SDG No.:

Instrument ID: 19506-B Start Date: 07/18/2023 10:18

Analysis Batch Number: 397918 End Date: 07/18/2023 19:38

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCVRT 410-397918/2		07/18/2023 10:18	1	312023_07_18BB.0002.d	HP Plot 0.53(mm)
ZZZZZ		07/18/2023 10:47	1		HP Plot 0.53(mm)
ZZZZZ		07/18/2023 10:54	1		HP Plot 0.53(mm)
MB 410-398043/1-A		07/18/2023 11:02	1	312023_07_18BB.0005.d	HP Plot 0.53(mm)
LCS 410-398043/2-A		07/18/2023 11:10	1	312023_07_18BB.0006.d	HP Plot 0.53(mm)
LCSD 410-398043/3-A		07/18/2023 11:18	1	312023_07_18BB.0007.d	HP Plot 0.53(mm)
ZZZZZ		07/18/2023 11:26	1		HP Plot 0.53(mm)
ZZZZZ		07/18/2023 11:33	1		HP Plot 0.53(mm)
ZZZZZ		07/18/2023 11:41	1		HP Plot 0.53(mm)
ZZZZZ		07/18/2023 14:21	1		HP Plot 0.53(mm)
ZZZZZ		07/18/2023 14:29	1		HP Plot 0.53(mm)
CCV 410-397918/13		07/18/2023 14:37	1	312023_07_18BB.0013.d	HP Plot 0.53(mm)
ZZZZZ		07/18/2023 14:45	1		HP Plot 0.53(mm)
ZZZZZ		07/18/2023 14:52	1		HP Plot 0.53(mm)
ZZZZZ		07/18/2023 15:00	1		HP Plot 0.53(mm)
ZZZZZ		07/18/2023 15:08	1		HP Plot 0.53(mm)
ZZZZZ		07/18/2023 15:16	1		HP Plot 0.53(mm)
ZZZZZ		07/18/2023 15:24	1		HP Plot 0.53(mm)
ZZZZZ		07/18/2023 15:32	1		HP Plot 0.53(mm)
ZZZZZ		07/18/2023 15:39	1		HP Plot 0.53(mm)
ZZZZZ		07/18/2023 15:47	1		HP Plot 0.53(mm)
ZZZZZ		07/18/2023 15:55	1		HP Plot 0.53(mm)
CCV 410-397918/24		07/18/2023 16:03	1		HP Plot 0.53(mm)
ZZZZZ		07/18/2023 16:11	1		HP Plot 0.53(mm)
ZZZZZ		07/18/2023 16:19	1		HP Plot 0.53(mm)
ZZZZZ		07/18/2023 16:27	1		HP Plot 0.53(mm)
ZZZZZ		07/18/2023 16:34	1		HP Plot 0.53(mm)
ZZZZZ		07/18/2023 16:42	1		HP Plot 0.53(mm)
ZZZZZ		07/18/2023 16:50	1		HP Plot 0.53(mm)
ZZZZZ		07/18/2023 16:58	1		HP Plot 0.53(mm)
ZZZZZ		07/18/2023 17:06	1		HP Plot 0.53(mm)
ZZZZZ		07/18/2023 17:19	1		HP Plot 0.53(mm)
ZZZZZ		07/18/2023 17:27	1		HP Plot 0.53(mm)
CCV 410-397918/35		07/18/2023 17:35	1	312023_07_18BB.0035.d	HP Plot 0.53(mm)
ZZZZZ		07/18/2023 17:43	1		HP Plot 0.53(mm)
ZZZZZ		07/18/2023 17:51	1		HP Plot 0.53(mm)
ZZZZZ		07/18/2023 18:00	1		HP Plot 0.53(mm)
410-134801-1	16WW55-230712	07/18/2023 18:08	1	312023_07_18BB.0039.d	HP Plot 0.53(mm)
410-134801-2	16WW41-230712	07/18/2023 18:16	1	312023_07_18BB.0040.d	HP Plot 0.53(mm)
410-134801-3	16WW48-230712	07/18/2023 18:24	1	312023_07_18BB.0041.d	HP Plot 0.53(mm)
410-134801-4	16WW48-230712-FD	07/18/2023 18:32	1	312023_07_18BB.0042.d	HP Plot 0.53(mm)

GC VOA ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-134801-1

SDG No.:

Instrument ID: 19506-B Start Date: 07/18/2023 10:18

Analysis Batch Number: 397918 End Date: 07/18/2023 19:38

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
410-134801-5	16EW03-230712	07/18/2023 18:41	1	312023_07_18BB.0043.d	HP Plot 0.53(mm)
410-134801-6	16WW35-230712	07/18/2023 18:49	1	312023_07_18BB.0044.d	HP Plot 0.53(mm)
ZZZZZ		07/18/2023 18:57	1		HP Plot 0.53(mm)
CCV 410-397918/46		07/18/2023 19:05	1	312023_07_18BB.0046.d	HP Plot 0.53(mm)
ZZZZZ		07/18/2023 19:13	1		HP Plot 0.53(mm)
ZZZZZ		07/18/2023 19:22	1		HP Plot 0.53(mm)
ZZZZZ		07/18/2023 19:30	1		HP Plot 0.53(mm)
CCV 410-397918/50		07/18/2023 19:38	1		HP Plot 0.53(mm)

GC VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-134801-1

SDG No.:

Batch Number: 369251 Batch Start Date: 04/27/23 09:16 Batch Analyst: Kennedy, Johanna C

Batch Method: RSK-175 Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	EPH_CO2ICV 00002	EPH_CO2MS 00004		
IC 410-369251/5		RSK-175		5 mL	5 mL		30 uL		
IC 410-369251/6		RSK-175		5 mL	5 mL		60 uL		
ICRT 410-369251/7		RSK-175		5 mL	5 mL		100 uL		
IC 410-369251/8		RSK-175		5 mL	5 mL		250 uL		
IC 410-369251/9		RSK-175		5 mL	5 mL		500 uL		
IC 410-369251/10		RSK-175		5 mL	5 mL		1000 uL		
ICV 410-369251/13		RSK-175		5 mL	5 mL	320 uL			

Batch Notes	

Basis	Basis Description

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-134801-1

SDG No.:

Batch Number: 398043 Batch Start Date: 07/18/23 11:00 Batch Analyst: Omorogbe, Malachi

Batch Method: RSK-175 Batch End Date: 07/18/23 12:07

Lab Sample ID	Client Sample ID	Method Chain	Basis	Initial pH	InitialAmount	FinalAmount	Headspace	EPH_CO2MS 00006	
MB 410-398043/1		RSK-175, RSK-175			5 mL	5 mL			
LCS 410-398043/2		RSK-175, RSK-175			5 mL	5 mL		0.1 mL	
LCSD 410-398043/3		RSK-175, RSK-175			5 mL	5 mL		0.1 mL	
410-134801-A-1	16WW55-230712	RSK-175, RSK-175	T	7 SU	5 mL	5 mL	No		
410-134801-A-2	16WW41-230712	RSK-175, RSK-175	T	7 SU	5 mL	5 mL	No		
410-134801-A-3	16WW48-230712	RSK-175, RSK-175	T	7 SU	5 mL	5 mL	No		
410-134801-A-4	16WW48-230712-FD	RSK-175, RSK-175	T	7 SU	5 mL	5 mL	No		
410-134801-A-5	16EW03-230712	RSK-175, RSK-175	T	7 SU	5 mL	5 mL	No		
410-134801-A-6	16WW35-230712	RSK-175, RSK-175	T	7 SU	5 mL	5 mL	No		

Batch Notes	
Pipette/Syringe/Dispenser ID	7105
pH Indicator ID	10BDH3021

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Shipping and Receiving Documents

10450 Stancliff Rd, Ste 210
Houston, TX 77099
T: +1 281 530 5656
F: +1 281 530 5887
www.alsglobal.com

Subcontract Chain of Custody

SAMPLING STATE: **Dept of Defense** **COC ID:** **22371**

SUBCONTRACT TO:

Eurofins Lancaster Laboratories Envt Testing
2425 New Holland Pike
Lancaster, PA 17601

Phone: +1 717 656 2300

CUSTOMER INFORMATION:

Company:	ALS Houston
Contact:	James Guin
Address:	10450 Stancliff Rd, Ste 210
Phone:	+1 281 530 5656
Email:	James.Guin@alsglobal.com
Alternate Contact:	Jumoke M. Lawal
Email:	jumoke.lawal@alsglobal.com

INVOICE INFORMATION:

Company:	ALS Houston
Contact:	Accounts Payable
Address:	10450 Stancliff Rd, Ste 210
Phone:	+1 281 530 5656
Reference:	HS23070658
TSR:	Ron Martino

	LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	COLLECT DATE
	ANALYSIS REQUESTED			DUE DATE
1.	**HS23070658-01**	**16WW55-230712**	**Groundwater**	**12 Jul 2023 07:05**
	RSK-CO2; DoD Level II & IV, Equ_APTIM_GISKey			27 Jul 2023
2.	**HS23070658-02**	**16WW41-230712**	**Groundwater**	**12 Jul 2023 07:50**
	RSK-CO2; DoD Level II & IV, Equ_APTIM_GISKey			27 Jul 2023
3.	**HS23070658-03**	**16WW48-230712**	**Groundwater**	**12 Jul 2023 08:35**
	RSK-CO2; DoD Level II & IV, Equ_APTIM_GISKey			27 Jul 2023
4.	**HS23070658-04**	**16WW48-230712-FD**	**Groundwater**	**12 Jul 2023 08:35**
	RSK-CO2; DoD Level II & IV, Equ_APTIM_GISKey			27 Jul 2023
5.	**HS23070658-05**	**16EW03-230712**	**Groundwater**	**12 Jul 2023 09:25**
	RSK-CO2; DoD Level II & IV, Equ_APTIM_GISKey			27 Jul 2023
6.	**HS23070658-06**	**16WW35-230712**	**Groundwater**	**12 Jul 2023 10:15**
	RSK-CO2; DoD Level II & IV, Equ_APTIM_GISKey			27 Jul 2023

Comments: Please analyze for the analysis listed above.
Send report to the emails shown above.

QC Level: DOD IV (DoD Data Package)

Rec 1.8°C, 1.8

Subcontract Chain of Custody

SAMPLING STATE: **Dept of Defense** **COC ID:** **22371**

Relinquished By: _____ Date/Time: 7/13/23 1800.

Received By: _____ Date/Time: 7/14/23 0952

Cooler ID(s): _____ Temperature(s): _____

Raw 1.8
corr 1.8

10450 Stancliff Rd, Ste 210
Houston, TX 77099
T: +1 281 530 5656
F: +1 281 530 5887
www.alsglobal.com

Purchase Order

PO: HS23070658

VENDOR:

Eurofins Lancaster Laboratories Envt Testing
2425 New Holland Pike
Lancaster, PA 17601

Phone: +1 717 656 2300

CUSTOMER INFORMATION:

Company:	ALS Houston
Contact:	James Guin
Address:	10450 Stancliff Rd, Ste 210
Phone:	+1 281 530 5656
Email:	James.Guin@alsglobal.com
Alternate Contact:	Jumoke M. Lawal
Email:	jumoke.lawal@alsglobal.com

INVOICE INFORMATION:

Company:	ALS Houston
Contact:	Accounts Payable
Address:	10450 Stancliff Rd, Ste 210
Phone:	+1 281 530 5656
Reference:	22371
TSR:	Ron Martino

Item	Catalog No	Unit Price	Quantity	Ext Price
1. RSK-CO2; DoD Level II & IV, Equ_APTIM_GISKey	NA		6	

Order Total:

Raw 1.8

COA 1.8

Login Sample Receipt Checklist

Client: ALS Group USA, Corp

Job Number: 410-134801-1

Login Number: 134801
List Number: 1
Creator: Hollinger, Zane T

List Source: Eurofins Lancaster Laboratories Environment Testing, LLC

Question	Answer	Comment
The cooler's custody seal is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable (</=6C, not frozen).	True	
Cooler Temperature is recorded.	True	
WV: Container Temperature is acceptable (</=6C, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	True	
Sample custody seals are intact.	N/A	
VOA sample vials do not have headspace >6mm in diameter (none, if from WV)?	True	

HS23070658-MSVOA-SW8260

ALS WO# HS23070658

01320648

right solutions.
right partner.

Form 1

Organic Analysis Data Sheet

Volatiles by EPA 8260

Workorder

HS23070658

Client

Bhate Environmental Associates, Inc.

Project

LHAAP Site 16

07/25/2023

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP Site 16

Workorder **HS23070658**

Volatiles by EPA 8260

HS23070658-01

16WW55-230712

Collected	Received	Matrix	Basis
07/12/23 07:05	07/13/23 09:30	Groundwater	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
1,1,2-Trichloroethane	ug/L	5.0	U	1.5	5.0	5.0	5	07/18/23 04:39	VOA6_441608	Y071721.D
1,1-Dichloroethene	ug/L	9.3		1.0	5.0	5.0	5	07/18/23 04:39	VOA6_441608	Y071721.D
1,2-Dichloroethane	ug/L	5.2		1.0	5.0	5.0	5	07/18/23 04:39	VOA6_441608	Y071721.D
cis-1,2-Dichloroethene	ug/L	760		1.0	5.0	5.0	5	07/18/23 04:39	VOA6_441608	Y071721.D
Methylene chloride	ug/L	10	U	2.0	10	10	5	07/18/23 04:39	VOA6_441608	Y071721.D
Trichloroethene	ug/L	2,900		10	50	50	50	07/18/23 04:59	VOA6_441608	Y071722.D
Vinyl chloride	ug/L	160		1.0	5.0	5.0	5	07/18/23 04:39	VOA6_441608	Y071721.D

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP Site 16

Workorder **HS23070658**

Volatiles by EPA 8260

HS23070658-02

16WW41-230712

Collected	Received	Matrix	Basis
07/12/23 07:50	07/13/23 09:30	Groundwater	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
1,1,2-Trichloroethane	ug/L	10	U	3.0	10	10	10	07/18/23 05:20	VOA6_441608	Y071723.D
1,1-Dichloroethene	ug/L	33		2.0	10	10	10	07/18/23 05:20	VOA6_441608	Y071723.D
1,2-Dichloroethane	ug/L	6.1	J	2.0	10	10	10	07/18/23 05:20	VOA6_441608	Y071723.D
cis-1,2-Dichloroethene	ug/L	4,000		20	100	100	100	07/18/23 05:40	VOA6_441608	Y071724.D
Methylene chloride	ug/L	20	U	4.0	20	20	10	07/18/23 05:20	VOA6_441608	Y071723.D
Trichloroethene	ug/L	6,300		20	100	100	100	07/18/23 05:40	VOA6_441608	Y071724.D
Vinyl chloride	ug/L	890		2.0	10	10	10	07/18/23 05:20	VOA6_441608	Y071723.D

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP Site 16

Workorder
HS23070658

Volatiles by EPA 8260

HS23070658-03

16WW48-230712

Collected	Received	Matrix	Basis
07/12/23 08:35	07/13/23 09:30	Groundwater	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
1,1,2-Trichloroethane	ug/L	100	U	30	100	100	100	07/18/23 06:42	VOA6_441608	Y071727.D
1,1-Dichloroethene	ug/L	79	J	20	100	100	100	07/18/23 06:42	VOA6_441608	Y071727.D
1,2-Dichloroethane	ug/L	100	U	20	100	100	100	07/18/23 06:42	VOA6_441608	Y071727.D
cis-1,2-Dichloroethene	ug/L	31,000		100	500	500	500	07/18/23 07:02	VOA6_441608	Y071728.D
Methylene chloride	ug/L	200	U	40	200	200	100	07/18/23 06:42	VOA6_441608	Y071727.D
Trichloroethene	ug/L	18,000		20	100	100	100	07/18/23 06:42	VOA6_441608	Y071727.D
Vinyl chloride	ug/L	720		20	100	100	100	07/18/23 06:42	VOA6_441608	Y071727.D

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP Site 16

Workorder **HS23070658**

Volatiles by EPA 8260

HS23070658-04

16WW48-230712-FD

Collected	Received	Matrix	Basis
07/12/23 08:35	07/13/23 09:30	Groundwater	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
1,1,2-Trichloroethane	ug/L	100	U	30	100	100	100	07/18/23 07:23	VOA6_441608	Y071729.D
1,1-Dichloroethene	ug/L	82	J	20	100	100	100	07/18/23 07:23	VOA6_441608	Y071729.D
1,2-Dichloroethane	ug/L	100	U	20	100	100	100	07/18/23 07:23	VOA6_441608	Y071729.D
cis-1,2-Dichloroethene	ug/L	33,000		100	500	500	500	07/18/23 07:43	VOA6_441608	Y071730.D
Methylene chloride	ug/L	200	U	40	200	200	100	07/18/23 07:23	VOA6_441608	Y071729.D
Trichloroethene	ug/L	17,000		20	100	100	100	07/18/23 07:23	VOA6_441608	Y071729.D
Vinyl chloride	ug/L	670		20	100	100	100	07/18/23 07:23	VOA6_441608	Y071729.D

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP Site 16

Workorder **HS23070658**

Volatiles by EPA 8260

HS23070658-05

16EW03-230712

Collected	Received	Matrix	Basis
07/12/23 09:25	07/13/23 09:30	Groundwater	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
1,1,2-Trichloroethane	ug/L	1.1		0.30	1.0	1.0	1	07/19/23 00:59	VOA6_441712	Y071812.D
1,1-Dichloroethene	ug/L	11		0.20	1.0	1.0	1	07/19/23 00:59	VOA6_441712	Y071812.D
1,2-Dichloroethane	ug/L	1.5		0.20	1.0	1.0	1	07/19/23 00:59	VOA6_441712	Y071812.D
cis-1,2-Dichloroethene	ug/L	2,400		4.0	20	20	20	07/19/23 01:19	VOA6_441712	Y071813.D
Methylene chloride	ug/L	2.0	U	0.40	2.0	2.0	1	07/19/23 00:59	VOA6_441712	Y071812.D
Trichloroethene	ug/L	53		0.20	1.0	1.0	1	07/19/23 00:59	VOA6_441712	Y071812.D
Vinyl chloride	ug/L	610		4.0	20	20	20	07/19/23 01:19	VOA6_441712	Y071813.D

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP Site 16

Workorder **HS23070658**

Volatiles by EPA 8260

HS23070658-06

16WW35-230712

Collected	Received	Matrix	Basis
07/12/23 10:15	07/13/23 09:30	Groundwater	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
1,1,2-Trichloroethane	ug/L	100	U	30	100	100	100	07/19/23 01:40	VOA6_441712	Y071814.D
1,1-Dichloroethene	ug/L	110		20	100	100	100	07/19/23 01:40	VOA6_441712	Y071814.D
1,2-Dichloroethane	ug/L	100	U	20	100	100	100	07/19/23 01:40	VOA6_441712	Y071814.D
cis-1,2-Dichloroethene	ug/L	770		20	100	100	100	07/19/23 01:40	VOA6_441712	Y071814.D
Methylene chloride	ug/L	200	U	40	200	200	100	07/19/23 01:40	VOA6_441712	Y071814.D
Trichloroethene	ug/L	9,100		20	100	100	100	07/19/23 01:40	VOA6_441712	Y071814.D
Vinyl chloride	ug/L	160		20	100	100	100	07/19/23 01:40	VOA6_441712	Y071814.D

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP Site 16

Workorder **HS23070658**

Volatiles by EPA 8260

HS23070658-07

16WW36-230712

Collected	Received	Matrix	Basis
07/12/23 11:00	07/13/23 09:30	Groundwater	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
1,1,2-Trichloroethane	ug/L	50	U	15	50	50	50	07/18/23 06:01	VOA6_441608	Y071725.D
1,1-Dichloroethene	ug/L	190		10	50	50	50	07/18/23 06:01	VOA6_441608	Y071725.D
1,2-Dichloroethane	ug/L	50	U	10	50	50	50	07/18/23 06:01	VOA6_441608	Y071725.D
cis-1,2-Dichloroethene	ug/L	18,000		100	500	500	500	07/18/23 06:21	VOA6_441608	Y071726.D
Methylene chloride	ug/L	100	U	20	100	100	50	07/18/23 06:01	VOA6_441608	Y071725.D
Trichloroethene	ug/L	23,000		100	500	500	500	07/18/23 06:21	VOA6_441608	Y071726.D
Vinyl chloride	ug/L	250		10	50	50	50	07/18/23 06:01	VOA6_441608	Y071725.D

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP Site 16

Workorder **HS23070658**

Volatiles by EPA 8260

HS23070658-08

16WW25-230712

Collected	Received	Matrix	Basis
07/12/23 11:45	07/13/23 09:30	Groundwater	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
1,1,2-Trichloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	07/19/23 00:38	VOA6_441712	Y071811.D
1,1-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	07/19/23 00:38	VOA6_441712	Y071811.D
1,2-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	07/19/23 00:38	VOA6_441712	Y071811.D
cis-1,2-Dichloroethene	ug/L	1.0		0.20	1.0	1.0	1	07/19/23 00:38	VOA6_441712	Y071811.D
Methylene chloride	ug/L	2.0	U	0.40	2.0	2.0	1	07/19/23 00:38	VOA6_441712	Y071811.D
Trichloroethene	ug/L	4.1		0.20	1.0	1.0	1	07/19/23 00:38	VOA6_441712	Y071811.D
Vinyl chloride	ug/L	1.0	U	0.20	1.0	1.0	1	07/19/23 00:38	VOA6_441712	Y071811.D

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP Site 16

Workorder **HS23070658**

Volatiles by EPA 8260

HS23070658-09

16WW26-230712

Collected	Received	Matrix	Basis
07/12/23 12:25	07/13/23 09:30	Groundwater	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
1,1,2-Trichloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	07/19/23 02:21	VOA6_441712	Y071816.D
1,1-Dichloroethene	ug/L	2.1		0.20	1.0	1.0	1	07/19/23 02:21	VOA6_441712	Y071816.D
1,2-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	07/19/23 02:21	VOA6_441712	Y071816.D
cis-1,2-Dichloroethene	ug/L	81		0.20	1.0	1.0	1	07/19/23 02:21	VOA6_441712	Y071816.D
Methylene chloride	ug/L	2.0	U	0.40	2.0	2.0	1	07/19/23 02:21	VOA6_441712	Y071816.D
Trichloroethene	ug/L	1,000		5.0	25	25	25	07/19/23 13:53	VOA6_441778	X071912.D
Vinyl chloride	ug/L	5.7		0.20	1.0	1.0	1	07/19/23 02:21	VOA6_441712	Y071816.D

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP Site 16

Workorder **HS23070658**

Volatiles by EPA 8260

HS23070658-10

16WW66-230712-FD

Collected	Received	Matrix	Basis
07/12/23 12:25	07/13/23 09:30	Groundwater	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
1,1,2-Trichloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	07/19/23 02:41	VOA6_441712	Y071817.D
1,1-Dichloroethene	ug/L	2.1		0.20	1.0	1.0	1	07/19/23 02:41	VOA6_441712	Y071817.D
1,2-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	07/19/23 02:41	VOA6_441712	Y071817.D
cis-1,2-Dichloroethene	ug/L	80		0.20	1.0	1.0	1	07/19/23 02:41	VOA6_441712	Y071817.D
Methylene chloride	ug/L	2.0	U	0.40	2.0	2.0	1	07/19/23 02:41	VOA6_441712	Y071817.D
Trichloroethene	ug/L	990		5.0	25	25	25	07/19/23 14:14	VOA6_441778	X071913.D
Vinyl chloride	ug/L	5.5		0.20	1.0	1.0	1	07/19/23 02:41	VOA6_441712	Y071817.D

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP Site 16

Workorder **HS23070658**

Volatiles by EPA 8260

HS23070658-11

Trip blank-230712

Collected	Received	Matrix	Basis
07/12/23 00:00	07/13/23 09:30	Water	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
1,1,2-Trichloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	07/18/23 23:37	VOA6_441712	Y071808.D
1,1-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	07/18/23 23:37	VOA6_441712	Y071808.D
1,2-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	07/18/23 23:37	VOA6_441712	Y071808.D
cis-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	07/18/23 23:37	VOA6_441712	Y071808.D
Methylene chloride	ug/L	2.0	U	0.40	2.0	2.0	1	07/18/23 23:37	VOA6_441712	Y071808.D
Trichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	07/18/23 23:37	VOA6_441712	Y071808.D
Vinyl chloride	ug/L	1.0	U	0.20	1.0	1.0	1	07/18/23 23:37	VOA6_441712	Y071808.D

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP Site 16

Workorder
HS23070658

Volatiles by EPA 8260

VBLKW-230717

VBLKW-230717

Collected	Received	Matrix	Basis
NA	NA	Aqueous	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
1,1,2-Trichloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	07/17/23 23:51	VOA6_441608	Y071707.D
1,1-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	07/17/23 23:51	VOA6_441608	Y071707.D
1,2-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	07/17/23 23:51	VOA6_441608	Y071707.D
cis-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	07/17/23 23:51	VOA6_441608	Y071707.D
Methylene chloride	ug/L	2.0	U	0.40	2.0	2.0	1	07/17/23 23:51	VOA6_441608	Y071707.D
Trichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	07/17/23 23:51	VOA6_441608	Y071707.D
Vinyl chloride	ug/L	1.0	U	0.20	1.0	1.0	1	07/17/23 23:51	VOA6_441608	Y071707.D

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP Site 16

Workorder **HS23070658**

Volatiles by EPA 8260

VBLKW-230718

VBLKW-230718

Collected	Received	Matrix	Basis
NA	NA	Aqueous	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
1,1,2-Trichloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	07/18/23 23:16	VOA6_441712	Y071807.D
1,1-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	07/18/23 23:16	VOA6_441712	Y071807.D
1,2-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	07/18/23 23:16	VOA6_441712	Y071807.D
cis-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	07/18/23 23:16	VOA6_441712	Y071807.D
Methylene chloride	ug/L	2.0	U	0.40	2.0	2.0	1	07/18/23 23:16	VOA6_441712	Y071807.D
Trichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	07/18/23 23:16	VOA6_441712	Y071807.D
Vinyl chloride	ug/L	1.0	U	0.20	1.0	1.0	1	07/18/23 23:16	VOA6_441712	Y071807.D

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP Site 16

Workorder
HS23070658

Volatiles by EPA 8260

VBLKW-230719	Collected	Received	Matrix	Basis
VBLKW-230719	NA	NA	Aqueous	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
Trichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	07/19/23 12:11	VOA6_441778	X071907.D

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Form 2

System Monitoring Compound Recovery

Volatiles by EPA 8260

Workorder

HS23070658

Client

Bhate Environmental Associates, Inc.

Project

LHAAP Site 16

07/25/2023

ALS Environmental–Houston Laboratory

10450 Stancliff Road, Suite 210, Houston, TX 77099

Phone (281) 530-5656 Fax (281) 530-5887

www.alsglobal.com

Form 2 - System Monitoring Compound Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP Site 16

Workorder HS23070658

RunID VOA6-441608

Volatiles by EPA 8260

CCB-CCB	Analyzed	Conc Units	Dilution
CCB	07/17/23	%REC	1

Surrogate	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	51.35	50	103		80-120
4-Bromofluorobenzene	47.41	50	94.8		80-120
Dibromofluoromethane	52.2	50	104		80-120
Toluene-d8	52.45	50	105		80-120

CCV-CCV	Analyzed	Conc Units	Dilution
CCV	07/17/23	%REC	1

Surrogate	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	51.06	50	102		80-120
4-Bromofluorobenzene	50.3	50	101		80-120
Dibromofluoromethane	52.7	50	105		80-120
Toluene-d8	45.84	50	91.7		80-120

HS23070546-03MS	Analyzed	Conc Units	Dilution
BatchQC	07/18/23	%REC	1000

Surrogate	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	53320	50000	107		81-118
4-Bromofluorobenzene	47810	50000	95.6		85-114
Dibromofluoromethane	54610	50000	109		80-119
Toluene-d8	50950	50000	102		89-112

Form 2 - System Monitoring Compound Recovery

Client: Bhate Environmental Associates, Inc.

Project: LHAAP Site 16

Workorder: HS23070658

RunID: VOA6-441608

Volatiles by EPA 8260

HS23070546-03MSD	Analyzed	Conc Units	Dilution
BatchQC	07/18/23	%REC	1000

Surrogate	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	52660	50000	105		81-118
4-Bromofluorobenzene	48880	50000	97.8		85-114
Dibromofluoromethane	54150	50000	108		80-119
Toluene-d8	52270	50000	105		89-112

HS23070658-01	Analyzed	Conc Units	Dilution
16WW55-230712	07/18/23	%REC	5

Surrogate	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	270	250	106		81-118
4-Bromofluorobenzene	240	250	94.4		85-114
Dibromofluoromethane	270	250	106		80-119
Toluene-d8	260	250	103		89-112
1,2-Dichloroethane-d4	2700	2500	107		81-118
4-Bromofluorobenzene	2300	2500	93.8		85-114
Dibromofluoromethane	2700	2500	107		80-119
Toluene-d8	2600	2500	103		89-112

Form 2 - System Monitoring Compound Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP Site 16

Workorder HS23070658

RunID VOA6-441608

Volatiles by EPA 8260

HS23070658-02	Analyzed	Conc Units	Dilution
16WW41-230712	07/18/23	%REC	10

Surrogate	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	520	500	105		81-118
4-Bromofluorobenzene	490	500	97.3		85-114
Dibromofluoromethane	530	500	106		80-119
Toluene-d8	510	500	102		89-112
1,2-Dichloroethane-d4	5200	5000	105		81-118
4-Bromofluorobenzene	4700	5000	93.9		85-114
Dibromofluoromethane	5300	5000	106		80-119
Toluene-d8	5100	5000	101		89-112

HS23070658-03	Analyzed	Conc Units	Dilution
16WW48-230712	07/18/23	%REC	100

Surrogate	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	5200	5000	105		81-118
4-Bromofluorobenzene	4800	5000	95.1		85-114
Dibromofluoromethane	5300	5000	105		80-119
Toluene-d8	5200	5000	104		89-112
1,2-Dichloroethane-d4	26000	25000	104		81-118
4-Bromofluorobenzene	23000	25000	90.8		85-114
Dibromofluoromethane	25000	25000	102		80-119
Toluene-d8	26000	25000	104		89-112

Form 2 - System Monitoring Compound Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP Site 16

Workorder HS23070658

RunID VOA6-441608

Volatiles by EPA 8260

HS23070658-04	Analyzed	Conc Units	Dilution
16WW48-230712-FD	07/18/23	%REC	100

Surrogate	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	5200	5000	104		81-118
4-Bromofluorobenzene	4600	5000	91.3		85-114
Dibromofluoromethane	5300	5000	105		80-119
Toluene-d8	5000	5000	101		89-112
1,2-Dichloroethane-d4	27000	25000	109		81-118
4-Bromofluorobenzene	23000	25000	91.5		85-114
Dibromofluoromethane	27000	25000	108		80-119
Toluene-d8	26000	25000	103		89-112

HS23070658-07	Analyzed	Conc Units	Dilution
16WW36-230712	07/18/23	%REC	50

Surrogate	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	2600	2500	105		81-118
4-Bromofluorobenzene	2400	2500	95.0		85-114
Dibromofluoromethane	2600	2500	106		80-119
Toluene-d8	2500	2500	102		89-112
1,2-Dichloroethane-d4	26000	25000	105		81-118
4-Bromofluorobenzene	24000	25000	96.0		85-114
Dibromofluoromethane	26000	25000	105		80-119
Toluene-d8	26000	25000	104		89-112

Form 2 - System Monitoring Compound Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP Site 16

Workorder
HS23070658

RunID
VOA6-441608

Volatiles by EPA 8260

VBLKW-230717	Analyzed	Conc Units	Dilution
VBLKW-230717	07/17/23	%REC	1

Surrogate	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	50.08	50	100		81-118
4-Bromofluorobenzene	47.28	50	94.6		85-114
Dibromofluoromethane	52.92	50	106		80-119
Toluene-d8	51.22	50	102		89-112

VLCSW-230717	Analyzed	Conc Units	Dilution
VLCSW-230717	07/17/23	%REC	1

Surrogate	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	52.94	50	106		81-118
4-Bromofluorobenzene	51.07	50	102		85-114
Dibromofluoromethane	54.12	50	108		80-119
Toluene-d8	46.75	50	93.5		89-112

Form 2 - System Monitoring Compound Recovery

Client: Bhate Environmental Associates, Inc.

Project: LHAAP Site 16

Workorder: HS23070658

RunID: VOA6-441712

Volatiles by EPA 8260

CCB-CCB	Analyzed	Conc Units	Dilution
CCB	07/18/23	%REC	1

Surrogate	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	52.03	50	104		80-120
4-Bromofluorobenzene	45.16	50	90.3		80-120
Dibromofluoromethane	52.68	50	105		80-120
Toluene-d8	50.85	50	102		80-120

CCV-CCV	Analyzed	Conc Units	Dilution
CCV	07/18/23	%REC	1

Surrogate	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	53.34	50	107		80-120
4-Bromofluorobenzene	51.35	50	103		80-120
Dibromofluoromethane	53.1	50	106		80-120
Toluene-d8	46.87	50	93.7		80-120

HS23070658-05	Analyzed	Conc Units	Dilution
16EW03-230712	07/19/23	%REC	1

Surrogate	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	55	50	110		81-118
4-Bromofluorobenzene	50	50	99.6		85-114
Dibromofluoromethane	53	50	106		80-119
Toluene-d8	51	50	103		89-112
1,2-Dichloroethane-d4	1100	1000	105		81-118
4-Bromofluorobenzene	970	1000	96.8		85-114
Dibromofluoromethane	1100	1000	107		80-119
Toluene-d8	1100	1000	105		89-112

Form 2 - System Monitoring Compound Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP Site 16

Workorder HS23070658

RunID VOA6-441712

Volatiles by EPA 8260

HS23070658-05MS	Analyzed	Conc Units	Dilution
16EW03-230712	07/19/23	%REC	20

Surrogate	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	1092	1000	109		81-118
4-Bromofluorobenzene	974.3	1000	97.4		85-114
Dibromofluoromethane	1088	1000	109		80-119
Toluene-d8	1027	1000	103		89-112

HS23070658-05MSD	Analyzed	Conc Units	Dilution
16EW03-230712	07/19/23	%REC	20

Surrogate	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	1070	1000	107		81-118
4-Bromofluorobenzene	989	1000	98.9		85-114
Dibromofluoromethane	1047	1000	105		80-119
Toluene-d8	1010	1000	101		89-112

HS23070658-06	Analyzed	Conc Units	Dilution
16WW35-230712	07/19/23	%REC	100

Surrogate	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	5300	5000	107		81-118
4-Bromofluorobenzene	4800	5000	95.8		85-114
Dibromofluoromethane	5400	5000	108		80-119
Toluene-d8	5200	5000	105		89-112

Form 2 - System Monitoring Compound Recovery

Client: Bhate Environmental Associates, Inc.

Project: LHAAP Site 16

Workorder: HS23070658

Volatiles by EPA 8260

RunID: VOA6-441712

HS23070658-08	Analyzed	Conc Units	Dilution
16WW25-230712	07/19/23	%REC	1

Surrogate	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	54	50	107		81-118
4-Bromofluorobenzene	49	50	98.1		85-114
Dibromofluoromethane	53	50	107		80-119
Toluene-d8	51	50	103		89-112

HS23070658-09	Analyzed	Conc Units	Dilution
16WW26-230712	07/19/23	%REC	1

Surrogate	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	54	50	108		81-118
4-Bromofluorobenzene	48	50	95.2		85-114
Dibromofluoromethane	54	50	107		80-119
Toluene-d8	51	50	101		89-112

HS23070658-10	Analyzed	Conc Units	Dilution
16WW66-230712-FD	07/19/23	%REC	1

Surrogate	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	55	50	110		81-118
4-Bromofluorobenzene	48	50	95.7		85-114
Dibromofluoromethane	53	50	105		80-119
Toluene-d8	52	50	104		89-112

Form 2 - System Monitoring Compound Recovery

Client: Bhate Environmental Associates, Inc.

Project: LHAAP Site 16

Workorder: HS23070658

RunID: VOA6-441712

Volatiles by EPA 8260

HS23070658-11	Analyzed	Conc Units	Dilution
Trip blank-230712	07/18/23	%REC	1

Surrogate	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	54	50	108		81-118
4-Bromofluorobenzene	46	50	91.8		85-114
Dibromofluoromethane	54	50	107		80-119
Toluene-d8	52	50	104		89-112

VBLKW-230718	Analyzed	Conc Units	Dilution
VBLKW-230718	07/18/23	%REC	1

Surrogate	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	53.69	50	107		81-118
4-Bromofluorobenzene	47.4	50	94.8		85-114
Dibromofluoromethane	53.37	50	107		80-119
Toluene-d8	51.63	50	103		89-112

VLCSW-230718	Analyzed	Conc Units	Dilution
VLCSW-230718	07/18/23	%REC	1

Surrogate	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	53.85	50	108		81-118
4-Bromofluorobenzene	53.21	50	106		85-114
Dibromofluoromethane	54.61	50	109		80-119
Toluene-d8	47.79	50	95.6		89-112

Form 2 - System Monitoring Compound Recovery

Client: Bhate Environmental Associates, Inc.

Project: LHAAP Site 16

Workorder: HS23070658

Volatiles by EPA 8260

RunID: VOA6-441778

CCB-CCB	Analyzed	Conc Units	Dilution
CCB	07/19/23	%REC	1

Surrogate	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	54.4	50	109		80-120
4-Bromofluorobenzene	48.08	50	96.2		80-120
Dibromofluoromethane	53.1	50	106		80-120
Toluene-d8	52.28	50	105		80-120

CCV-CCV	Analyzed	Conc Units	Dilution
CCV	07/19/23	%REC	1

Surrogate	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	53.22	50	106		80-120
4-Bromofluorobenzene	53.48	50	107		80-120
Dibromofluoromethane	54.83	50	110		80-120
Toluene-d8	47.58	50	95.2		80-120

HS23070658-09	Analyzed	Conc Units	Dilution
16WW26-230712	07/19/23	%REC	25

Surrogate	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	1400	1250	112		81-118
4-Bromofluorobenzene	1200	1250	94.5		85-114
Dibromofluoromethane	1400	1250	109		80-119
Toluene-d8	1300	1250	101		89-112

Form 2 - System Monitoring Compound Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP Site 16

Workorder HS23070658

RunID VOA6-441778

Volatiles by EPA 8260

HS23070658-10	Analyzed	Conc Units	Dilution
16WW66-230712-FD	07/19/23	%REC	25

Surrogate	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	1400	1250	108		81-118
4-Bromofluorobenzene	1200	1250	94.9		85-114
Dibromofluoromethane	1300	1250	108		80-119
Toluene-d8	1300	1250	102		89-112

HS23070791-03MS	Analyzed	Conc Units	Dilution
BatchQC	07/19/23	%REC	1

Surrogate	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	52.16	50	104		81-118
4-Bromofluorobenzene	49.37	50	98.7		85-114
Dibromofluoromethane	53.13	50	106		80-119
Toluene-d8	50.94	50	102		89-112

HS23070791-03MSD	Analyzed	Conc Units	Dilution
BatchQC	07/19/23	%REC	1

Surrogate	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	55.5	50	111		81-118
4-Bromofluorobenzene	47.58	50	95.2		85-114
Dibromofluoromethane	53.79	50	108		80-119
Toluene-d8	51.01	50	102		89-112

Form 2 - System Monitoring Compound Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP Site 16

Workorder
HS23070658

RunID
VOA6-441778

Volatiles by EPA 8260

VBLKW-230719	Analyzed	Conc Units	Dilution
VBLKW-230719	07/19/23	%REC	1

Surrogate	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	53.81	50	108		81-118
4-Bromofluorobenzene	46.96	50	93.9		85-114
Dibromofluoromethane	53.47	50	107		80-119
Toluene-d8	51.68	50	103		89-112

VLCSW-230719	Analyzed	Conc Units	Dilution
VLCSW-230719	07/19/23	%REC	1

Surrogate	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	54.57	50	109		81-118
4-Bromofluorobenzene	51.96	50	104		85-114
Dibromofluoromethane	53.54	50	107		80-119
Toluene-d8	46.76	50	93.5		89-112

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Form 3A

Matrix Spike/Spike Duplicate Recovery

Volatiles by EPA 8260

Workorder

HS23070658

Client

Bhate Environmental Associates, Inc.

Project

LHAAP Site 16

07/25/2023

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Form 3A - Matrix Spike/Spike Duplicate Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP Site 16

Workorder
HS23070658

RunID
VOA6-441608

Volatiles by EPA 8260

BatchQC (HS23070546-03)				HS23070546-03MS				HS23070546-03MSD						
Sample Matrix: Aqueous			Run Date	07/18/23				07/18/23						
Result Units: ug/L			Run Time	01:34				01:54						
			Data File	Y071712.D				Y071713.D						
Analyte	%R Limits	DF	Sample Result	MS Result	Spike Added	%R	Q	MSD Result	Spike Added	%R	Q	RPD Limit	RPD	Q
1,1,2-Trichloroethane	80-119	1000	0	23120	20000	116		23870	20000	119		20	3.19	
1,1-Dichloroethene	71-131	1000	0	25230	20000	126		25520	20000	128		20	1.11	
1,2-Dichloroethane	73-128	1000	0	21590	20000	108		21210	20000	106		20	1.78	
cis-1,2-Dichloroethene	78-123	1000	33480	65000	20000	158		59960	20000	132		20	8.06	
Methylene chloride	74-124	1000	0	24290	20000	121		24320	20000	122		20	0.104	
Trichloroethene	79-123	1000	58100	89320	20000	156		84160	20000	130		20	5.95	
Vinyl chloride	58-137	1000	920.1	26810	20000	129		24930	20000	120		20	7.25	

Q - %Recovery / RPD Flag * - %Recovery / RPD Outside Limits OL - Outside Limits %R - %Recovery DF - Dilution Factor Amt - Amount (weight or volume)

Form 3A - Matrix Spike/Spike Duplicate Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP Site 16

Workorder
HS23070658

RunID
VOA6-441712

Volatiles by EPA 8260

16EW03-230712 (HS23070658-05)				HS23070658-05MS				HS23070658-05MSD						
Sample Matrix Aqueous			**Run Date**	07/19/23				07/19/23						
Result Units ug/L			**Run Time**	03:02				03:22						
			Data File	Y071818.D				Y071819.D						
Analyte	%R Limits	DF	Sample Result	MS Result	Spike Added	%R	Q	MSD Result	Spike Added	%R	Q	RPD Limit	RPD	Q
1,1,2-Trichloroethane	80-119	20	0	441.8	400	110		440.2	400	110		20	0.373	
1,1-Dichloroethene	71-131	20	10.98	499.3	400	122		439.7	400	107		20	12.7	
1,2-Dichloroethane	73-128	20	0	445.3	400	111		434.7	400	109		20	2.41	
cis-1,2-Dichloroethene	78-123	20	2401	2818	400	104		2605	400	51		20	7.85	
Methylene chloride	74-124	20	0	462.8	400	116		438.7	400	110		20	5.34	
Trichloroethene	79-123	20	46.31	539.4	400	123		480.4	400	109		20	11.6	
Vinyl chloride	58-137	20	605.7	1087	400	120		999.7	400	98		20	8.39	

Q - %Recovery / RPD Flag * - %Recovery / RPD Outside Limits OL - Outside Limits %R - %Recovery DF - Dilution Factor Amt - Amount (weight or volume)

Form 3A - Matrix Spike/Spike Duplicate Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP Site 16

Workorder **HS23070658**

RunID VOA6-441778

Volatiles by EPA 8260

BatchQC (HS23070791-03)				HS23070791-03MS				HS23070791-03MSD						
Sample Matrix Aqueous			Run Date	07/19/23				07/19/23						
Result Units ug/L			Run Time	13:12				13:33						
			Data File	X071910.D				X071911.D						
Analyte	%R Limits	DF	Sample Result	MS Result	Spike Added	%R	Q	MSD Result	Spike Added	%R	Q	RPD Limit	RPD	Q
Trichloroethene	79-123	1	0	23.51	20	118		24.53	20	123		20	4.27	

Q - %Recovery / RPD Flag * - %Recovery / RPD Outside Limits OL - Outside Limits %R - %Recovery DF - Dilution Factor Amt - Amount (weight or volume)

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Form 3B

Laboratory Control Sample Recovery

Volatiles by EPA 8260

Workorder

HS23070658

Client

Bhate Environmental Associates, Inc.

Project

LHAAP Site 16

07/25/2023

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Form 3B - Laboratory Control Sample Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP Site 16

Workorder
HS23070658

SAMPLENUM
VLCSW-230717

Volatiles by EPA 8260

VOA6_441608			VLCSW-230717			
Spike Matrix	Aqueous	**Run Date**	07/17/23			
Result Units	ug/L	**Run Time**	23:10			
		Data File	Y071705.D			
Analyte	%Recovery Limits	Spike Added	LCS Result	%R	Q	
1,1,2-Trichloroethane	80-119	20	19.69	98		
1,1-Dichloroethene	71-131	20	22.44	112		
1,2-Dichloroethane	73-128	20	19.27	96		
cis-1,2-Dichloroethene	78-123	20	20.58	103		
Methylene chloride	74-124	20	23.46	117		
Trichloroethene	79-123	20	19.17	96		
Vinyl chloride	58-137	20	23.33	117		

Q - %Recovery / RPD Flag * - %Recovery / RPD Outside Limits %R - %Recovery DF - Dilution Factor Amt - Amount (weight or volume)

Form 3B - Laboratory Control Sample Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP Site 16

Workorder
HS23070658

SAMPLENUM
VLCSW-230718

Volatiles by EPA 8260

VOA6_441712			VLCSW-230718			
Spike Matrix Aqueous		**Run Date**	07/18/23			
Result Units ug/L		**Run Time**	22:35			
		Data File	Y071805.D			
Analyte	%Recovery Limits	Spike Added	LCS Result	%R	Q	
1,1,2-Trichloroethane	80-119	20	19.38	97		
1,1-Dichloroethene	71-131	20	21.79	109		
1,2-Dichloroethane	73-128	20	19.62	98		
cis-1,2-Dichloroethene	78-123	20	20.02	100		
Methylene chloride	74-124	20	22.14	111		
Trichloroethene	79-123	20	20.72	104		
Vinyl chloride	58-137	20	23.26	116		

Q - %Recovery / RPD Flag * - %Recovery / RPD Outside Limits %R - %Recovery DF - Dilution Factor Amt - Amount (weight or volume)

Form 3B - Laboratory Control Sample Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP Site 16

Workorder
HS23070658

SAMPLENUM
VLCSW-230719

Volatiles by EPA 8260

VOA6_441778			VLCSW-230719			
Spike Matrix Aqueous		**Run Date**	07/19/23			
Result Units ug/L		**Run Time**	12:52			
		Data File	X071909.D			
Analyte	%Recovery Limits	Spike Added	LCS Result	%R	Q	
Trichloroethene	79-123	20	19.51	98		

Q - %Recovery / RPD Flag * - %Recovery / RPD Outside Limits %R - %Recovery DF - Dilution Factor Amt - Amount (weight or volume)

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Form 4

Method Blank Summary

Volatiles by EPA 8260

Workorder

HS23070658

Client

Bhate Environmental Associates, Inc.

Project

LHAAP Site 16

07/25/2023

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Form 4 - Method Blank Summary

Client Bhate Environmental Associates, Inc.

Project LHAAP Site 16

Workorder
HS23070658

Volatiles by EPA 8260

Client Sample ID	Type	Lab Sample ID	File ID	Date Analyzed	Run ID
METHOD BLANK	MBLK	VBLKW-230717	Y071707.D	07/17/23 23:51	VOA6_441608
VLCSW-230717	LCS	VLCSW-230717	Y071705.D	07/17/23 23:10	VOA6_441608
BatchQC	MS	HS23070546-03MS	Y071712.D	07/18/23 01:34	VOA6_441608
BatchQC	MSD	HS23070546-03MSD	Y071713.D	07/18/23 01:54	VOA6_441608
16WW55-230712	SAMP	HS23070658-01	Y071721.D	07/18/23 04:39	VOA6_441608
16WW55-230712	SAMP	HS23070658-01	Y071722.D	07/18/23 04:59	VOA6_441608
16WW41-230712	SAMP	HS23070658-02	Y071723.D	07/18/23 05:20	VOA6_441608
16WW41-230712	SAMP	HS23070658-02	Y071724.D	07/18/23 05:40	VOA6_441608
16WW36-230712	SAMP	HS23070658-07	Y071725.D	07/18/23 06:01	VOA6_441608
16WW36-230712	SAMP	HS23070658-07	Y071726.D	07/18/23 06:21	VOA6_441608
16WW48-230712	SAMP	HS23070658-03	Y071727.D	07/18/23 06:42	VOA6_441608
16WW48-230712	SAMP	HS23070658-03	Y071728.D	07/18/23 07:02	VOA6_441608
16WW48-230712-FD	SAMP	HS23070658-04	Y071729.D	07/18/23 07:23	VOA6_441608
16WW48-230712-FD	SAMP	HS23070658-04	Y071730.D	07/18/23 07:43	VOA6_441608

Form 4 - Method Blank Summary

Client Bhate Environmental Associates, Inc.

Project LHAAP Site 16

Workorder
HS23070658

Volatiles by EPA 8260

Client Sample ID	Type	Lab Sample ID	File ID	Date Analyzed	Run ID
METHOD BLANK	MBLK	VBLKW-230718	Y071807.D	07/18/23 23:16	VOA6_441712
VLCSW-230718	LCS	VLCSW-230718	Y071805.D	07/18/23 22:35	VOA6_441712
Trip blank-230712	SAMP	HS23070658-11	Y071808.D	07/18/23 23:37	VOA6_441712
16WW25-230712	SAMP	HS23070658-08	Y071811.D	07/19/23 00:38	VOA6_441712
16EW03-230712	SAMP	HS23070658-05	Y071812.D	07/19/23 00:59	VOA6_441712
16EW03-230712	SAMP	HS23070658-05	Y071813.D	07/19/23 01:19	VOA6_441712
16WW35-230712	SAMP	HS23070658-06	Y071814.D	07/19/23 01:40	VOA6_441712
16WW26-230712	SAMP	HS23070658-09	Y071816.D	07/19/23 02:21	VOA6_441712
16WW66-230712-FD	SAMP	HS23070658-10	Y071817.D	07/19/23 02:41	VOA6_441712
16EW03-230712	MS	HS23070658-05MS	Y071818.D	07/19/23 03:02	VOA6_441712
16EW03-230712	MSD	HS23070658-05MSD	Y071819.D	07/19/23 03:22	VOA6_441712

Form 4 - Method Blank Summary

Client Bhate Environmental Associates, Inc.

Project LHAAP Site 16

Workorder
HS23070658

Volatiles by EPA 8260

Client Sample ID	Type	Lab Sample ID	File ID	Date Analyzed	Run ID
METHOD BLANK	MBLK	VBLKW-230719	X071907.D	07/19/23 12:11	VOA6_441778
VLCSW-230719	LCS	VLCSW-230719	X071909.D	07/19/23 12:52	VOA6_441778
BatchQC	MS	HS23070791-03MS	X071910.D	07/19/23 13:12	VOA6_441778
BatchQC	MSD	HS23070791-03MSD	X071911.D	07/19/23 13:33	VOA6_441778
16WW26-230712	SAMP	HS23070658-09	X071912.D	07/19/23 13:53	VOA6_441778
16WW66-230712-FD	SAMP	HS23070658-10	X071913.D	07/19/23 14:14	VOA6_441778

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Form 5

Instrument Performance Check

Volatiles by EPA 8260

Workorder

HS23070658

Client

Bhate Environmental Associates, Inc.

Project

LHAAP Site 16

07/25/2023

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www.alsglobal.com

Form 5 - Instrument Performance Check

Client Bhate Environmental Associates, Inc.

Project LHAAP Site 16

Workorder
HS23070658

RunID
VOA6-441456

Volatiles by EPA 8260

Tune File X071401.D 07/14/23 7/14/2023

m / e	Ion Abundance Criterion	%RA
50	15.0 - 40.0% of mass 95	25.9 (25.9)
75	30.0 - 60.0% of mass 95	52 (52)
95	Base peak, 100% RA	100 (100)
96	5.0 - 9.0% of mass 95	5.6 (5.63)
173	Less than 2.0% of mass 174	0.8 (0.926) 1
174	50.0 - 120.0% of mass 95	82.2 (82.2)
175	4.0 - 9.0% of mass 174	5.4 (6.56) 1
176	93.0 - 101.0% of mass 174	79.3 (96.5) 1
177	5.0 - 9.0% of mass 176	4.5 (5.64) 2

%RA - Percent Relative Abundance

This check applies to the following analyses

	Lab Samp ID	Type	Date Analyzed	Lab File ID	Sample ID
1	VSTD000.25	ICAL1	7/14/2023	X071402	VSTD000.25
2	VSTD000.5	ICAL2	7/14/2023	X071403	VSTD000.5
3	VSTD001	ICAL3	7/14/2023	X071404	VSTD001
4	VSTD002	ICAL4	7/14/2023	X071405	VSTD002
5	VSTD005	ICAL5	7/14/2023	X071406	VSTD005
6	VSTD020	ICAL6	7/14/2023	X071407	VSTD020
7	VSTD050	ICAL7	7/14/2023	X071408	VSTD050
8	VSTD100	ICAL8	7/14/2023	X071409	VSTD100
9	VSTD150	ICAL9	7/14/2023	X071410	VSTD150
10	VSTD200	ICAL	7/14/2023	X071411	VSTD200
11	CCV	ICV	7/14/2023	X071413	CCV

Form 5 - Instrument Performance Check

Client Bhate Environmental Associates, Inc.

Project LHAAP Site 16

Workorder **HS23070658**

RunID **VOA6-441608**

Volatiles by EPA 8260

Tune File Y071701.D 07/17/23 7/17/2023

m / e	Ion Abundance Criterion	%RA
50	15.0 - 40.0% of mass 95	24.1 (24.1)
75	30.0 - 60.0% of mass 95	49.4 (49.4)
95	Base peak, 100% RA	100 (100)
96	5.0 - 9.0% of mass 95	7.5 (7.5)
173	Less than 2.0% of mass 174	0 (0) 1
174	50.0 - 120.0% of mass 95	79.2 (79.2)
175	4.0 - 9.0% of mass 174	6.9 (8.75) 1
176	93.0 - 101.0% of mass 174	78.4 (99) 1
177	5.0 - 9.0% of mass 176	5.2 (6.67) 2

%RA - Percent Relative Abundance

This check applies to the following analyses

	Lab Samp ID	Type	Date Analyzed	Lab File ID	Sample ID
1	CCV	CCV	7/17/2023	Y071703	CCV
2	CCB	CCB	7/17/2023	Y071704	CCB
3	VLCSW-	LCS	7/17/2023	Y071705	VLCSW-230717
4	VBLKW-	MBLK	7/17/2023	Y071707	VBLKW-230717
5	HS23070546-	MS	7/18/2023	Y071712	ZZZZZZMS
6	HS23070546-	MSD	7/18/2023	Y071713	ZZZZZZMSD
7	HS23070658-	SAMP	7/18/2023	Y071721	16WW55-230712
8	HS23070658-	SAMP	7/18/2023	Y071722	16WW55-230712
9	HS23070658-	SAMP	7/18/2023	Y071723	16WW41-230712
10	HS23070658-	SAMP	7/18/2023	Y071724	16WW41-230712
11	HS23070658-	SAMP	7/18/2023	Y071725	16WW36-230712
12	HS23070658-	SAMP	7/18/2023	Y071726	16WW36-230712
13	HS23070658-	SAMP	7/18/2023	Y071727	16WW48-230712
14	HS23070658-	SAMP	7/18/2023	Y071728	16WW48-230712
15	HS23070658-	SAMP	7/18/2023	Y071729	16WW48-230712-FD
16	HS23070658-	SAMP	7/18/2023	Y071730	16WW48-230712-FD
17	CCV-END	CCV_EN	7/18/2023	Y071731	CCV-END

Form 5 - Instrument Performance Check

Client Bhate Environmental Associates, Inc.

Project LHAAP Site 16

Workorder **HS23070658**

RunID **VOA6-441712**

Volatiles by EPA 8260

Tune File Y071801.D 07/18/23 7/18/2023

m / e	Ion Abundance Criterion	%RA
50	15.0 - 40.0% of mass 95	22.1 (22.1)
75	30.0 - 60.0% of mass 95	44 (44)
95	Base peak, 100% RA	100 (100)
96	5.0 - 9.0% of mass 95	7.4 (7.4)
173	Less than 2.0% of mass 174	0 (0) 1
174	50.0 - 120.0% of mass 95	75.5 (75.5)
175	4.0 - 9.0% of mass 174	6.2 (8.21) 1
176	93.0 - 101.0% of mass 174	71.9 (95.2) 1
177	5.0 - 9.0% of mass 176	5.6 (7.78) 2

%RA - Percent Relative Abundance

This check applies to the following analyses

	Lab Samp ID	Type	Date Analyzed	Lab File ID	Sample ID
1	CCV	CCV	7/18/2023	Y071803	CCV
2	CCB	CCB	7/18/2023	Y071804	CCB
3	VLCSW-	LCS	7/18/2023	Y071805	VLCSW-230718
4	VBLKW-	MBLK	7/18/2023	Y071807	VBLKW-230718
5	HS23070658-	SAMP	7/18/2023	Y071808	Trip blank-230712
6	HS23070658-	SAMP	7/19/2023	Y071811	16WW25-230712
7	HS23070658-	SAMP	7/19/2023	Y071812	16EW03-230712
8	HS23070658-	SAMP	7/19/2023	Y071813	16EW03-230712
9	HS23070658-	SAMP	7/19/2023	Y071814	16WW35-230712
10	HS23070658-	SAMP	7/19/2023	Y071816	16WW26-230712
11	HS23070658-	SAMP	7/19/2023	Y071817	16WW66-230712-FD
12	HS23070658-	MS	7/19/2023	Y071818	HS23070658-05MS
13	HS23070658-	MSD	7/19/2023	Y071819	HS23070658-05MSD
14	CCV-END	CCV_EN	7/19/2023	Y071820	CCV-END

Form 5 - Instrument Performance Check

Client Bhate Environmental Associates, Inc.

Project LHAAP Site 16

Workorder
HS23070658

RunID
VOA6-441778

Volatiles by EPA 8260

Tune File X071901.D 07/19/23 7/19/2023

m / e	Ion Abundance Criterion	%RA
50	15.0 - 40.0% of mass 95	22.7 (22.7)
75	30.0 - 60.0% of mass 95	48.4 (48.4)
95	Base peak, 100% RA	100 (100)
96	5.0 - 9.0% of mass 95	6.7 (6.73)
173	Less than 2.0% of mass 174	0 (0) 1
174	50.0 - 120.0% of mass 95	76.4 (76.4)
175	4.0 - 9.0% of mass 174	6.8 (8.89) 1
176	93.0 - 101.0% of mass 174	74.6 (97.7) 1
177	5.0 - 9.0% of mass 176	5 (6.76) 2

%RA - Percent Relative Abundance

This check applies to the following analyses

	Lab Samp ID	Type	Date Analyzed	Lab File ID	Sample ID
1	CCV	CCV	7/19/2023	X071903	CCV
2	CCB	CCB	7/19/2023	X071904	CCB
3	VBLKW-	MBLK	7/19/2023	X071907	VBLKW-230719
4	VLCSW-	LCS	7/19/2023	X071909	VLCSW-230719
5	HS23070791-	MS	7/19/2023	X071910	ZZZZZZMS
6	HS23070791-	MSD	7/19/2023	X071911	ZZZZZZMSD
7	HS23070658-	SAMP	7/19/2023	X071912	16WW26-230712
8	HS23070658-	SAMP	7/19/2023	X071913	16WW66-230712-FD
9	CCV-END	CCV_EN	7/19/2023	X071914	CCV-END

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Form 6

Initial Calibration Data

Volatiles by EPA 8260

Workorder

HS23070658

Client

Bhate Environmental Associates, Inc.

Project

LHAAP Site 16

07/25/2023

ALS Environmental–Houston Laboratory
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Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Initial Calibration Data

Client Bhate Environmental Associates, Inc.

Project LHAAP Site 16

Workorder HS23070658

RunID VOA6_441456

Volatiles by EPA 8260

Compound	50.00 Level 7 / 0.250 Level 1	100.00 Level 8 / 0.500 Level 2	150.00 Level 9 / 1.00 Level 3	200.00 Level 10 / 2.00 Level 4	5.00 Level 5	20.00 Level 6	Curve	b	m1	m2	%RSD or R2	Q
Dichlorodifluoromethane	NE 235300	1663 576963	3668 822037	9210 1105119	21541	94710	LINR	0.02191	0.52294		0.99807	
Chloromethane	NE 0.67753	0.84001 0.79824	0.66306 0.81227	0.83928 0.82447	0.68468	0.65730	AVRG		0.75520		10.80318	
Propionitrile	NE 0.09423	0.10390 0.10017	0.09941 0.10114	0.09874 0.09819	0.09448	0.10115	AVRG		0.09905		3.16658	
Vinyl Chloride	NE 0.60823	0.69203 0.70202	0.53140 0.67183	0.72188 0.65918	0.61204	0.62458	AVRG		0.64702		9.14675	
Bromomethane	NE 0.25218	0.27789 0.28534	0.24476 0.29658	0.27563 0.28725	0.25296	0.23720	AVRG		0.26775		7.93201	
Chloroethane	NE 0.34475	0.43063 0.37168	0.35796 0.36290	0.40526 0.34794	0.34800	0.35515	AVRG		0.36936		7.97570	
Trichlorofluoromethane	NE 0.60292	0.58636 0.75016	0.55773 0.71606	0.73670 0.70274	0.59809	0.65059	AVRG		0.65570		11.03396	
Acrolein	NE 19251	268 38657	510 60619	917 82636	2341	6957	LINR	0.02257	0.01915		0.99956	
Acetone	NE 210033	7150 413238	8098 616513	15631 806431	26152	92232	LINR	-0.09778	0.18861		0.99933	
1,1-Dichloroethene	NE 0.35132	0.34284 0.39971	0.33390 0.37449	0.40741 0.37144	0.35652	0.35911	AVRG		0.36630		6.73637	

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Initial Calibration Data

Client Bhate Environmental Associates, Inc.
Project LHAAP Site 16

Workorder HS23070658

RunID VOA6_441456

Volatiles by EPA 8260

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Compound	50.00 Level 7 0.250 Level 1	100.00 Level 8 0.500 Level 2	150.00 Level 9 1.00 Level 3	200.00 Level 10 2.00 Level 4	5.00 Level 5	20.00 Level 6	Curve	b	m1	m2	%RSD or R2	Q
Isobutyl Alcohol	NE 0.09486	0.09915 0.10064	0.08022 0.09926	0.09038 0.09480	0.09479	0.09891	AVRG		0.09478		6.69321	
Acetonitrile	NE 0.06830	0.07163 0.06960	0.07422 0.07051	0.07419 0.06805	0.06612	0.06841	AVRG		0.07011		3.98876	
Allyl Chloride	NE 1.52604	1.95513 1.56199	1.82721 1.56589	1.62093 1.51692	1.61860	1.58159	AVRG		1.64159		9.09372	
Iodomethane	NE 473625	2897 1101288	4792 1666204	11682 2365259	29645	147770	QUAD	0.07604	2.04557	-0.05646	0.99916	
Acrylonitrile	NE 0.22535	0.30341 0.23200	0.22558 0.23458	0.25182 0.22663	0.25615	0.23734	AVRG		0.24365		10.26343	
Methylene Chloride	NE 228969	3115 461890	7389 679924	11880 893552	25734	93705	LINR	-0.02821	0.42039		0.99928	
Methyl tert-butyl ether	NE 1.28013	1.42757 1.32509	1.50562 1.32040	1.44539 1.27025	1.34304	1.34355	AVRG		1.36234		5.84889	
Carbon Disulfide	NE 1.09141	1.19715 1.22733	1.02400 1.19261	1.26579 1.18678	1.08532	1.09253	AVRG		1.15144		6.97191	
trans-1,2-Dichloroethene	NE 0.40397	0.50790 0.43050	0.34716 0.41204	0.45461 0.41226	0.43607	0.40889	AVRG		0.42371		10.21222	
Vinyl Acetate	NE 1.67574	1.80993 1.76700	1.71245 1.76631	1.79630 1.74491	1.73508	1.76334	AVRG		1.75234		2.35224	
1,1-Dichloroethane	NE 0.89937	1.04282 0.93166	0.87723 0.90417	1.03426 0.88702	0.90313	0.88859	AVRG		0.92980		6.83106	
Chloroprene	NE 0.19474	0.25663 0.23640	0.22753 0.23331	0.21787 0.23204	0.21758	0.20725	AVRG		0.22482		8.00705	

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Initial Calibration Data

Client Bhate Environmental Associates, Inc.

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Compound	50.00 Level 7 0.250 Level 1	100.00 Level 8 0.500 Level 2	150.00 Level 9 1.00 Level 3	200.00 Level 10 2.00 Level 4	5.00 Level 5	20.00 Level 6	Curve	b	m1	m2	%RSD or R2	Q
2-Butanone	NE 0.25660	0.28077 0.28522	0.26281 0.27741	0.24974 0.28148	0.24863	0.25377	AVRG		0.26627		5.58805	
Methacrylonitrile	NE 0.62768	0.71944 0.66925	0.58681 0.67273	0.61854 0.65439	0.59811	0.66152	AVRG		0.64539		6.44560	
2,2-Dichloropropane	NE 357279	3703 797830	7001 1150093	15882 1535535	34523	136770	LINR	0.00416	0.72480		0.99899	
cis-1,2-Dichloroethene	NE 0.52561	0.58080 0.55258	0.55205 0.52870	0.55103 0.51702	0.52518	0.52498	AVRG		0.53977		3.81784	
Chloroform	NE 0.90021	1.12088 0.94131	0.94789 0.91371	1.04563 0.88871	0.89046	0.91369	AVRG		0.95139		8.37790	
Bromochloromethane	NE 0.28615	0.34105 0.29492	0.28436 0.28865	0.36073 0.28298	0.29741	0.28625	AVRG		0.30250		9.34540	
1,1,1-Trichloroethane	NE 0.70136	0.76811 0.80905	0.60604 0.78046	0.76445 0.77179	0.67544	0.71465	AVRG		0.73237		8.70697	
1,1-Dichloropropene	NE 0.37472	0.46667 0.45240	0.37410 0.42446	0.41961 0.42714	0.34598	0.38546	AVRG		0.40784		9.80634	
1,2-Dichloroethane	NE 0.52114	0.65388 0.55719	0.55646 0.54137	0.52020 0.54393	0.51464	0.54481	AVRG		0.55040		7.59848	
Carbon Tetrachloride	NE 0.35583	0.45034 0.44940	0.42963 0.42389	0.40208 0.42272	0.37338	0.39061	AVRG		0.41088		7.99245	
Benzene	NE 1.14556	1.30726 1.25702	1.13102 1.18986	1.22322 1.19963	1.12620	1.18395	AVRG		1.19597		5.00630	
Trichloroethene	NE 0.32325	0.36259 0.36148	0.29151 0.34333	0.38072 0.34832	0.30457	0.32879	AVRG		0.33829		8.55214	

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Initial Calibration Data

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Compound	50.00 Level 7 0.250 Level 1	100.00 Level 8 0.500 Level 2	150.00 Level 9 1.00 Level 3	200.00 Level 10 2.00 Level 4	5.00 Level 5	20.00 Level 6	Curve	b	m1	m2	%RSD or R2	Q
Bromodichloromethane	NE 0.43234	0.56576 0.45884	0.42748 0.45203	0.45204 0.46018	0.42979	0.44442	AVRG		0.45810		9.21563	
Methyl Methacrylate	NE 0.55557	0.64774 0.60054	0.67348 0.60150	0.61013 0.58254	0.58540	0.57437	AVRG		0.60347		6.09532	
2-Chloroethylvinyl ether	NE 0.13958	0.13748 0.15371	0.12812 0.14777	0.12943 0.15040	0.13129	0.14103	AVRG		0.13987		6.65248	
1,2-Dichloropropane	NE 0.37714	0.43289 0.40397	0.31618 0.38726	0.39071 0.39014	0.37483	0.38801	AVRG		0.38457		8.02856	
2-Nitropropane	NE 0.18456	0.23319 0.19499	0.19456 0.20657	0.22145 0.20342	0.16115	0.18784	AVRG		0.19864		10.60581	
Dibromomethane	NE 0.20339	0.24779 0.21844	0.21543 0.20650	0.23770 0.20862	0.20762	0.21371	AVRG		0.21769		6.96902	
4-Methyl-2-Pentanone	NE 0.46063	0.58655 0.48903	0.46075 0.48195	0.49135 0.48645	0.48596	0.48555	AVRG		0.49202		7.57687	
cis-1,3-Dichloropropene	NE 0.51175	0.61537 0.55605	0.45166 0.53397	0.53404 0.54067	0.47196	0.51998	AVRG		0.52616		8.99460	
Ethyl Methacrylate	NE 0.26930	0.34651 0.30905	0.35275 0.33292	0.35012 0.34232	0.32495	0.31920	AVRG		0.32746		8.05273	
Toluene	NE 1.35355	1.36539 1.44404	1.14100 1.39074	1.37686 1.39027	1.31689	1.33460	AVRG		1.34593		6.32428	
trans-1,3-Dichloropropene	NE 0.42358	0.49608 0.46734	0.38674 0.45302	0.44837 0.46834	0.41009	0.43827	AVRG		0.44354		7.48885	
2-Hexanone	NE 0.30067	0.30395 0.32110	0.33705 0.32372	0.32917 0.32526	0.33286	0.33513	AVRG		0.32321		4.01955	

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Client Bhate Environmental Associates, Inc.

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Volatiles by EPA 8260

ICAL Summary Page 5 / 12

Compound	50.00 Level 7 0.250 Level 1	100.00 Level 8 0.500 Level 2	150.00 Level 9 1.00 Level 3	200.00 Level 10 2.00 Level 4	5.00 Level 5	20.00 Level 6	Curve	b	m1	m2	%RSD or R2	Q
1,1,2-Trichloroethane	NE 0.27496	0.30232 0.28103	0.28933 0.27111	0.30515 0.27281	0.28408	0.28886	AVRG		0.28552		4.28271	
1,3-Dichloropropane	NE 0.56268	0.68555 0.57784	0.56076 0.55478	0.58546 0.55874	0.58510	0.57884	AVRG		0.58331		6.87413	
Dibromochloromethane	NE 0.40608	0.42594 0.43396	0.39216 0.42165	0.41047 0.42582	0.38971	0.40387	AVRG		0.41218		3.79175	
Tetrachloroethene	NE 0.26863	0.24343 0.31076	0.22414 0.29395	0.32780 0.29098	0.27159	0.27129	AVRG		0.27806		11.54647	
1,2-Dibromoethane	NE 0.30967	0.35535 0.31558	0.31873 0.30475	0.33131 0.31110	0.34997	0.33995	AVRG		0.32627		5.69357	
1-Chlorohexane	NE 0.33296	0.43114 0.42814	0.40883 0.40776	0.43814 0.41598	0.36414	0.38805	AVRG		0.40168		8.58201	
Chlorobenzene	NE 0.90189	1.07531 0.96048	0.86917 0.93481	0.96582 0.94343	0.89774	0.91892	AVRG		0.94084		6.30233	
1,1,1,2-Tetrachloroethane	NE 0.36189	0.40907 0.38531	0.32801 0.37705	0.36574 0.37837	0.34420	0.36531	AVRG		0.36833		6.36041	
Ethylbenzene	NE 0.45381	0.53160 0.50085	0.40783 0.48317	0.49648 0.48539	0.44109	0.44588	AVRG		0.47179		7.99221	
m,p-Xylenes	NE 0.58355	0.58138 0.63520	0.51291 0.61039	0.66213 0.61758	0.54279	0.58097	AVRG		0.59188		7.73323	
o-Xylene	NE 0.54985	0.60028 0.59157	0.50413 0.57426	0.58077 0.58210	0.50944	0.55204	AVRG		0.56049		6.17548	
Styrene	NE 0.97719	1.10605 1.02091	0.86982 0.99759	0.96217 1.01131	0.89239	0.96159	AVRG		0.97767		7.16726	

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Initial Calibration Data

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Volatiles by EPA 8260

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Compound	50.00 Level 7 0.250 Level 1	100.00 Level 8 0.500 Level 2	150.00 Level 9 1.00 Level 3	200.00 Level 10 2.00 Level 4	5.00 Level 5	20.00 Level 6	Curve	b	m1	m2	%RSD or R2	Q
Bromoform	NE 0.26395	0.26832 0.27994	0.21153 0.27771	0.29273 0.28394	0.24404	0.25796	AVRG		0.26446		9.32941	
Isopropylbenzene	NE 1.36958	1.45474 1.59321	1.15694 1.51601	1.62659 1.55523	1.31430	1.37984	AVRG		1.44071		10.47090	
1,1,2,2-Tetrachloroethane	NE 0.78472	0.94445 0.81779	0.83194 0.80619	0.90896 0.80829	0.84185	0.81425	AVRG		0.83983		6.25761	
1,2,3-Trichloropropane	NE 0.62245	0.70743 0.65589	0.66768 0.64581	0.66994 0.64574	0.70648	0.67647	AVRG		0.66643		4.21060	
trans-1,4-Dichloro-2-butene	NE 0.15148	0.15286 0.16770	0.12745 0.16789	0.14444 0.16922	0.13548	0.15209	AVRG		0.15207		9.66771	
n-Propylbenzene	NE 2.91361	2.94838 3.40683	2.53997 3.24372	3.16964 3.29645	2.67171	3.00288	AVRG		3.02147		9.55626	
Bromobenzene	NE 0.73926	0.82736 0.79512	0.75995 0.76647	0.82086 0.78754	0.76608	0.77520	AVRG		0.78198		3.67998	
1,3,5-Trimethylbenzene	NE 2.12204	2.47615 2.50410	1.87986 2.44372	2.39387 2.46514	1.97150	2.11509	AVRG		2.26350		10.68239	
2-Chlorotoluene	NE 1.91345	2.19364 2.08147	2.04515 2.01122	2.15846 2.03095	1.86416	2.04541	AVRG		2.03821		5.12320	
4-Chlorotoluene	NE 2.19714	2.25128 2.40271	1.82096 2.33521	2.37563 2.37480	2.11635	2.28352	AVRG		2.23973		8.15437	
tert-Butylbenzene	NE 1.75584	2.09594 2.12022	1.61179 2.04664	2.20774 2.05649	1.74066	1.83461	AVRG		1.94110		10.71222	
1,2,4-Trimethylbenzene	NE 2.11967	2.62916 2.46832	1.84573 2.41069	2.42858 2.45093	1.92871	2.14683	AVRG		2.26985		11.86510	

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Initial Calibration Data

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Compound	50.00 Level 7 0.250 Level 1	100.00 Level 8 0.500 Level 2	150.00 Level 9 1.00 Level 3	200.00 Level 10 2.00 Level 4	5.00 Level 5	20.00 Level 6	Curve	b	m1	m2	%RSD or R2	Q
sec-Butylbenzene	NE 2.38650	2.39008 2.98896	2.08647 2.87301	2.89395 2.88374	2.26832	2.51515	AVRG		2.58735		12.68595	
p-Isopropyltoluene	NE 2.17688	2.52552 2.69684	1.93671 2.58444	2.48463 2.61384	2.04517	2.20747	AVRG		2.36350		11.64663	
1,3-Dichlorobenzene	NE 1.28863	1.54565 1.44980	1.17676 1.41160	1.40461 1.40967	1.24164	1.33205	AVRG		1.36227		8.33210	
1,4-Dichlorobenzene	NE 1.38557	1.65292 1.53566	1.32318 1.45287	1.69562 1.48161	1.44532	1.46978	AVRG		1.49361		7.97047	
Benzyl Chloride	NE 558112	6245 1321247	10259 2041719	17851 2751633	45616	196200	LINR	0.04694	0.89268		0.99874	
n-Butylbenzene	NE 1.83535	1.84574 2.37633	1.70944 2.27255	1.96808 2.30080	1.70778	1.79924	AVRG		1.97948		13.42128	
1,2-Dichlorobenzene	NE 1.27471	1.35749 1.42525	1.25645 1.37391	1.38320 1.38665	1.26217	1.33374	AVRG		1.33929		4.58000	
1,2-Dibromo-3-Chloropropane	NE 51434	675 119154	831 181917	1953 242707	5268	19568	LINR	0.02176	0.14112		0.99931	
1,2,4-Trichlorobenzene	NE 0.80524	1.05947 0.97476	0.91279 0.95753	0.94981 0.97711	0.85502	0.78698	AVRG		0.91986		9.65852	
Hexachlorobutadiene	NE 139894	1357 382401	2109 564457	6844 760294	13714	52647	LINR	0.04709	0.44481		0.99698	
Naphthalene	NE 2.02307	2.67698 2.35582	2.32669 2.27389	2.26771 2.32875	2.16067	2.07687	AVRG		2.27672		8.35550	
1,2,3-Trichlorobenzene	NE 0.74794	0.99382 0.88744	0.89482 0.86237	0.93334 0.87314	0.76923	0.78029	AVRG		0.86027		9.42402	

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Ethyl Acetate	NE 0.70402	0.85233 0.73854	0.68267 0.71854	0.73966 0.71045	0.76533	0.77227	AVRG		0.74265		6.75864	
Methyl Acrylate	NE 0.62114	0.66840 0.77600	0.54731 0.78843	0.64052 0.76129	0.64695	0.66691	AVRG		0.67966		11.81743	
n-Butanol	NE 0.01560	0.01615 0.01818	0.01470 0.01945	0.01778 0.01980	0.01318	0.01496	AVRG		0.01664		13.67270	
Ethyl Acrylate	NE 1.56849	1.63514 1.70663	1.72358 1.77502	1.50263 1.75049	1.60242	1.64950	AVRG		1.65710		5.42882	
Cyclohexanone	NE 0.03949	0.05394 0.03979	0.05115 0.03982	0.04786 0.03661	0.04626	0.04568	AVRG		0.04451		13.30149	
1,4-Dioxane	0.00529 0.00540	0.00687 0.00595	0.00611 0.00600	0.00555 0.00602	0.00636	0.00586	AVRG		0.00594		7.82889	
n-Hexane	NE 244351	2320 700280	5000 NE	11984 NE	26276	106667	QUAD	-0.01727	2.41947	-0.68015	0.99837	
Freon TF	NE 154547	1274 422615	2818 NE	7195 NE	16656	67796	QUAD	-0.01499	3.77998	-1.58677	0.99832	
Methyl Acetate	NE 0.42203	0.46559 0.43221	0.47286 0.43028	0.45346 0.42016	0.45829	0.45001	AVRG		0.44499		4.35037	
Methylcyclohexane	NE 0.98734	1.14273 1.10411	0.96842 1.12748	0.95973 1.14019	1.03867	1.02958	AVRG		1.05536		7.08148	
Isopropyl alcohol	NE 0.03536	0.04517 0.03638	0.04439 0.03714	0.04149 0.03689	0.03687	0.03873	AVRG		0.03916		9.28018	
Amyl alcohol	NE 0.01277	0.01442 0.01513	0.01288 0.01573	0.01448 0.01580	0.01462	0.01358	AVRG		0.01438		7.75370	

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Allyl alcohol	NE 244351	2068 700280	5000 NE	14314 NE	26276	106667	QUAD	-0.39232	48.54112	-13.69022	0.99834	
4-Methyl-2-pentanol	NE 0.08687	0.12600 0.10145	0.10791 0.10473	0.11127 0.10925	0.11234	0.10455	AVRG		0.10715		9.67860	
Tert-butyl alcohol	NE 0.05636	0.07802 0.05963	0.06140 0.05977	0.06995 0.05928	0.06161	0.06194	AVRG		0.06311		10.61812	
Diethyl ether	NE 0.43908	0.51744 0.44851	0.49360 0.44689	0.51199 0.43020	0.45058	0.45793	AVRG		0.46625		6.99240	
1,3-Butadiene	NE 0.58528	0.63622 0.71010	0.57213 0.67222	0.73345 0.66543	0.59805	0.60945	AVRG		0.64248		8.80211	
Cyclohexane	NE 0.73558	0.85829 1.03245	0.72681 0.97434	0.92986 0.96744	0.75844	0.81693	AVRG		0.86668		13.16994	
Tetrahydrofuran	NE 0.12218	0.14083 0.12495	0.13332 0.12609	0.13514 0.12108	0.12274	0.13136	AVRG		0.12863		5.31484	
alpha-Methylstyrene	NE 1.02454	1.23006 1.16376	0.99517 1.14646	1.09377 1.14475	0.99115	1.02796	AVRG		1.09085		7.81543	
Diisopropyl ether	NE 1.95747	2.14800 2.03902	2.34506 2.05555	2.06794 1.95720	1.91324	2.06344	AVRG		2.06077		6.23686	
Dichlorofluoromethane	NE 0.76153	0.85332 0.78724	0.92289 0.78703	0.84028 0.76192	0.75366	0.78256	AVRG		0.80560		6.93852	
Propylene oxide	NE 0.05692	0.06108 0.05582	0.06673 0.05455	0.06684 0.04985	0.07410	0.06618	AVRG		0.06134		12.54653	
3-Methyl-1-butanol	NE 0.01195	0.01323 0.01394	0.01183 0.01419	0.00888 0.01408	0.01158	0.01110	AVRG		0.01231		14.14320	

NE - Not Evaluated, AVRG - Averaged, LINR - Linear Regression, WLIN - Weighted Linear, QUAD - Quadratic, * - Curve Fit Outside Limits

Initial Calibration Data

Client Bhate Environmental Associates, Inc.

Project LHAAP Site 16

Workorder HS23070658

RunID VOA6_441456

Volatiles by EPA 8260

ICAL Summary Page 10 / 12

Compound	50.00 Level 7 / 0.250 Level 1	100.00 Level 8 / 0.500 Level 2	150.00 Level 9 / 1.00 Level 3	200.00 Level 10 / 2.00 Level 4	5.00 Level 5	20.00 Level 6	Curve	b	m1	m2	%RSD or R2	Q
Butyl acrylate	NE 0.95529	0.92245 1.02517	0.88753 1.04707	0.86138 1.05297	0.86060	0.94857	AVRG		0.95123		7.98920	
Butyl methacrylate	NE 1.15197	1.22102 1.29239	1.20704 1.21819	1.20789 1.18934	1.13145	1.15942	AVRG		1.19763		3.97564	
Dicyclopentadiene	NE 2.75252	2.80389 2.95979	3.12078 3.02021	2.84202 2.97202	2.58546	2.86391	AVRG		2.88007		5.53053	
1,2,3-Trimethylbenzene	NE 2.26318	2.33141 2.44349	2.44039 2.48171	2.00963 2.47220	2.11668	2.24288	AVRG		2.31129		7.26158	
Ethanol	NE 72445	1082 150451	1613 220615	3219 291912	7997	30252	LINR	-0.37330	0.00686		0.99938	
tert-Butyl formate	NE 0.46269	0.60414 0.51460	0.54120 0.53820	0.56992 0.54329	0.53335	0.49959	AVRG		0.53411		7.55066	
3,3-Dimethyl-1-butanol	NE 0.04382	0.07070 0.04890	0.05527 0.05244	0.05594 0.05101	0.05364	0.05224	AVRG		0.05377		13.60012	
tert-Amyl methyl ether	NE 1.60911	1.86257 1.58140	1.86766 1.64949	1.49761 1.54826	1.62072	1.56664	AVRG		1.64483		8.04479	
tert-Butyl ethyl ether	NE 1.97744	2.48449 2.04789	2.24930 2.06704	2.05003 2.01150	2.12663	2.03642	AVRG		2.11675		7.49756	
tert-Amyl alcohol	NE 0.04627	0.06041 0.05146	0.05141 0.05382	0.06972 0.05433	0.05333	0.05084	AVRG		0.05462		12.42201	
Epichlorohydrin	NE 0.03559	0.03842 0.03914	0.03655 0.03819	0.03704 0.03863	0.03577	0.03679	AVRG		0.03735		3.45493	
Isoprene	NE 0.14969	0.16745 0.17829	0.14351 0.17017	0.16283 0.16423	0.17487	0.17231	AVRG		0.16482		6.98920	

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Initial Calibration Data

Client Bhate Environmental Associates, Inc.

Project LHAAP Site 16

Workorder HS23070658

RunID VOA6_441456

Volatiles by EPA 8260

ICAL Summary Page 11 / 12

Compound	50.00 Level 7 0.250 Level 1	100.00 Level 8 0.500 Level 2	150.00 Level 9 1.00 Level 3	200.00 Level 10 2.00 Level 4	5.00 Level 5	20.00 Level 6	Curve	b	m1	m2	%RSD or R2	Q
n-Amyl acetate	NE 0.81039	1.01275 0.90629	1.04196 0.91309	0.90756 0.92294	0.85545	0.87675	AVRG		0.91635		7.88906	
Isopropyl acetate	NE 1.19423	1.44350 1.30224	1.45714 1.26100	1.48440 1.24685	1.21182	1.26381	AVRG		1.31833		8.51827	
n-Butyl acetate	NE 0.73443	0.87010 0.79624	0.63987 0.80262	0.70296 0.81276	0.74526	0.79294	AVRG		0.76635		8.91130	
Acetaldehyde	NE 101552	NE 189053	5117 265471	8114 347350	20987	39093	LINR	-0.45320	0.04030		0.99713	
Methyl Amyl Ketone	NE 0.96318	1.20532 1.04745	0.94521 1.08877	0.97102 1.09326	1.04102	1.05023	AVRG		1.04505		7.72385	
Dimethyl Disulfide	NE 0.69887	0.66624 0.73618	0.61152 0.73656	0.60301 0.73622	0.60088	0.68043	AVRG		0.67444		8.55931	
Isobutylene	NE 0.07008	0.09932 0.08656	0.08288 0.08198	0.07903 0.07923	0.07898	0.08593	AVRG		0.08267		9.56800	
2-Ethylhexyl Acrylate	NE 1.36334	1.09488 1.47049	1.12671 1.45960	1.14640 1.46017	1.06053	1.31158	AVRG		1.27708		13.35344	
94 1,2-Dichloroethylene (total)	NE 0.46479	0.54435 0.49154	0.44960 0.47037	0.50282 0.46464	0.48062	0.46694	AVRG		0.48174		5.88171	
95 Xylenes (total)	NE 0.51459	0.53863 0.58017	0.47900 0.55693	0.57974 0.56971	0.47946	0.52696	AVRG		0.53613		7.35273	
30 Dibromofluoromethane	NE 227290	3536 502644	5859 719790	10131 959895	26145	100577	LINR	-0.01526	0.45137		0.99889	
35 1,2-Dichloroethane-d4	NE 282994	5342 615043	7805 911155	14667 1203985	31653	125030	LINR	-0.01246	0.56601		0.99932	

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Initial Calibration Data

Client Bhate Environmental Associates, Inc.

Project LHAAP Site 16

Workorder HS23070658

RunID VOA6_441456

Volatiles by EPA 8260

ICAL Summary Page 12 / 12

Compound	50.00 Level 7 / 0.250 Level 1	100.00 Level 8 / 0.500 Level 2	150.00 Level 9 / 1.00 Level 3	200.00 Level 10 / 2.00 Level 4	5.00 Level 5	20.00 Level 6	Curve	b	m1	m2	%RSD or R2	Q
48 Toluene-d8	NE 1.07891	1.41149 1.19952	1.42719 NE	1.38594 NE	1.29623	1.21214	AVRG		1.28735		10.10735	
69 4-Bromofluorobenzene	NE 355682	7819 767493	11517 1135204	17835 1538168	40007	153161	LINR	-0.00857	0.49361		0.99967	

NE - Not Evaluated, AVRG - Averaged, LINR - Linear Regression, WLIN - Weighted Linear, QUAD - Quadratic, * - Curve Fit Outside Limits

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Form 6I

Initial Calibration Verification (ICV)

Volatiles by EPA 8260

Workorder

HS23070658

Client

Bhate Environmental Associates, Inc.

Project

LHAAP Site 16

07/25/2023

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Initial Calibration Verification (ICV)

Client Bhate Environmental Associates, Inc.
Project LHAAP Site 16

Workorder HS23070658

RunID VOA6_441456

Volatiles by EPA 8260

Sample Matrix LIQUID
Lab Smp Id ICV
Level LOW
Fraction VOA
Client Smp ID ICV
Operator PC

Compound	Conc Added	Conc Recovered	% Recovered	Limits	Q
1,1,1,2-Tetrachloroethane	50.00	49.01	98.02	80-120	
1,1,1-Trichloroethane	50.00	46.46	92.93	80-120	
1,1,2,2-Tetrachloroethane	50.00	48.23	96.47	80-120	
Freon TF	50.00	50.73	101.47	80-120	
Methyl acetate	50.00	48.60	97.20	80-120	
Cyclohexane	50.00	43.28	86.57	80-120	
Methylcyclohexane	50.00	47.44	94.90	80-120	
Carbon Disulfide	100.00	92.54	92.54	80-120	
2-Hexanone	100.00	100.41	100.42	80-120	
1,1,2-Trichloroethane	50.00	48.51	97.03	80-120	
1,1-Dichloroethane	50.00	46.83	93.66	80-120	
1,1-Dichloroethene	50.00	45.26	90.53	80-120	
1,1-Dichloropropene	50.00	45.59	91.20	80-120	
1,2,3-Trichlorobenzene	50.00	43.05	86.12	80-120	
1,2,3-Trichloropropane	50.00	48.09	96.20	80-120	
1,2,4-Trichlorobenzene	50.00	43.35	86.72	80-120	
1,2,4-Trimethylbenzene	50.00	44.77	89.55	80-120	
1,2-Dibromo-3-Chloropropane	50.00	48.27	96.54	80-120	
1,2-Dibromoethane	50.00	47.85	95.71	80-120	
Acrolein	100.00	95.33	95.34	80-120	
Acrylonitrile	100.00	96.95	96.95	80-120	
1,2-Dichlorobenzene	50.00	47.75	95.52	80-120	
1,2-Dichloroethane	50.00	47.45	94.92	80-120	
1,2-Dichloropropane	50.00	49.01	98.02	80-120	
1,3,5-Trimethylbenzene	50.00	44.65	89.31	80-120	
1,3-Dichlorobenzene	50.00	46.44	92.88	80-120	
1,3-Dichloropropane	50.00	48.46	96.93	80-120	
1,4-Dichlorobenzene	50.00	45.87	91.75	80-120	
1-Chlorohexane	50.00	40.17	80.36	80-120	
2,2-Dichloropropane	50.00	47.06	94.14	80-120	
2-Butanone	100.00	105.06	105.06	80-120	
2-Chloroethylvinyl ether	100.00	103.48	103.49	80-120	
2-Chlorotoluene	50.00	45.07	90.16	80-120	
4-Chlorotoluene	50.00	47.10	94.21	80-120	

Initial Calibration Verification (ICV)

Client Bhate Environmental Associates, Inc.
Project LHAAP Site 16

Workorder HS23070658

RunID VOA6_441456

Volatiles by EPA 8260

Sample Matrix LIQUID
Lab Smp Id ICV
Level LOW
Fraction VOA
Client Smp ID ICV
Operator PC

Compound	Conc Added	Conc Recovered	% Recovered	Limits	Q
p-Isopropyltoluene	50.00	42.46	84.92	80-120	
4-Methyl-2-Pentanone	100.00	96.77	96.78	80-120	
Acetone	100.00	109.68	109.69	80-120	
Acetonitrile	500.00	477.86	95.57	80-120	
Allyl Chloride	50.00	46.25	92.52	80-120	
Benzene	50.00	47.17	94.35	80-120	
Bromobenzene	50.00	47.14	94.28	80-120	
Bromochloromethane	50.00	47.57	95.15	80-120	
Bromodichloromethane	50.00	47.04	94.09	80-120	
Bromoform	50.00	50.48	100.97	80-120	
Bromomethane	50.00	52.69	105.40	80-120	
Carbon Tetrachloride	50.00	43.89	87.80	80-120	
Chlorobenzene	50.00	47.93	95.88	80-120	
Chloroethane	50.00	45.13	90.26	80-120	
Chloroform	50.00	45.97	91.96	80-120	
Chloromethane	50.00	46.75	93.50	80-120	
Chloroprene	50.00	45.07	90.15	80-120	
cis-1,2-Dichloroethene	50.00	47.65	95.31	80-120	
cis-1,3-Dichloropropene	50.00	49.60	99.21	80-120	
Dibromochloromethane	50.00	50.99	101.99	80-120	
Dibromomethane	50.00	47.45	94.92	80-120	
Dichlorodifluoromethane	50.00	44.13	88.28	80-120	
Ethylbenzene	50.00	46.22	92.44	80-120	
Ethyl Methacrylate	50.00	42.56	85.14	80-120	
Iodomethane	100.00	85.27	85.27	80-120	
Isobutyl Alcohol	1000.00	1037.79	103.78	70-130	
Propionitrile	500.00	495.72	99.15	70-130	
Hexachlorobutadiene	50.00	40.81	81.63	80-120	
Isopropylbenzene	50.00	44.80	89.60	80-120	
m,p-Xylenes	100.00	94.37	94.38	80-120	
Methyl tert-butyl ether	50.00	48.10	96.20	80-120	
Methylene Chloride	50.00	48.91	97.83	80-120	
Methacrylonitrile	50.00	51.28	102.56	80-120	
Methyl Methacrylate	50.00	48.63	97.28	80-120	

Initial Calibration Verification (ICV)

Client Bhate Environmental Associates, Inc.
Project LHAAP Site 16

Workorder HS23070658

RunID VOA6_441456

Volatiles by EPA 8260

Sample Matrix LIQUID
Lab Smp Id ICV
Level LOW
Fraction VOA
Client Smp ID ICV
Operator PC

Compound	Conc Added	Conc Recovered	% Recovered	Limits	Q
n-Butylbenzene	50.00	43.07	86.14	80-120	
n-Propylbenzene	50.00	44.93	89.87	80-120	
Naphthalene	50.00	45.05	90.10	80-120	
o-Xylene	50.00	47.84	95.69	80-120	
sec-Butylbenzene	50.00	42.83	85.66	80-120	
Styrene	50.00	49.01	98.02	80-120	
tert-Butylbenzene	50.00	42.55	85.10	80-120	
Tetrachloroethene	50.00	47.18	94.38	80-120	
Toluene	50.00	48.91	97.82	80-120	
trans-1,2-Dichloroethene	50.00	45.43	90.87	80-120	
trans-1,3-Dichloropropene	50.00	49.09	98.19	80-120	
trans-1,4-Dichloro-2-butene	50.00	53.16	106.34	80-120	
Trichloroethene	50.00	46.63	93.27	80-120	
Trichlorofluoromethane	50.00	46.87	93.76	80-120	
Vinyl Acetate	100.00	100.31	100.31	80-120	
Vinyl Chloride	50.00	46.46	92.92	80-120	
1,2-Dichloroethylene (total)	100.00	93.08	93.09	80-120	
Xylenes (total)	150.00	142.22	94.81	80-120	
1,4-Dioxane	1000.00	988.21	98.82	80-120	
Dibromofluoromethane	50.00	52.53	105.08	71-125	
1,2-Dichloroethane-d4	50.00	52.09	104.19	70-125	
Toluene-d8	50.00	48.16	96.34	75-125	

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Form 7

Continuing Calibration Verification (CCV)

Volatiles by EPA 8260

Workorder

HS23070658

Client

Bhate Environmental Associates, Inc.

Project

LHAAP Site 16

07/25/2023

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP Site 16

Workorder HS23070658

RunID VOA6_441608

Volatiles by EPA 8260

Instrument ID VOA6.I
Lab File ID Y071703.D
Analysis Type WATER
Lab Sample ID CCV

Injection Date :30
ICAL Date(s) 14-JUL-2023 14-JUL-2023
ICAL Times :41 15:25
Quant Type ISTD

Compound	$\overline{RRF}$ / Conc	RF50 / Conc	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
30 Dibromofluoromethane	50.0	52.70386	0.48266	0.100	-5.40772	20.0	Linear	
35 1,2-Dichloroethane-d4	50.0	51.05569	0.58501	0.100	-2.11138	20.0	Linear	
48 Toluene-d8	1.28735	1.18014	1.18014	0.100	8.32769	20.0	Averaged	
Vinyl Chloride	0.64702	0.70564	0.70564	0.100	-9.05885	20.0	Averaged	
1,1-Dichloroethene	0.36630	0.38444	0.38444	0.100	-4.95045	20.0	Averaged	
Methylene Chloride	50.0	56.45824	0.48655	0.100	-12.91649	20.0	Linear	
cis-1,2-Dichloroethene	0.53977	0.54677	0.54677	0.100	-1.29631	20.0	Averaged	
1,2-Dichloroethane	0.55040	0.52903	0.52903	0.100	3.88350	20.0	Averaged	
Trichloroethene	0.33829	0.33483	0.33483	0.200	1.02208	20.0	Averaged	
1,1,2-Trichloroethane	0.28552	0.28298	0.28298	0.100	0.88682	20.0	Averaged	
trans-1,2-Dichloroethene	0.42371	0.44207	0.44207	0.100	-4.33272	20.0	Averaged	

Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP Site 16

Workorder HS23070658

RunID VOA6_441608

Volatiles by EPA 8260

Instrument ID VOA6.I
Lab File ID Y071731.D
Analysis Type WATER
Lab Sample ID CCV-END

Injection Date :04
ICAL Date(s) 14-JUL-2023 14-JUL-2023
ICAL Times :41 15:25
Quant Type ISTD

Compound	$\overline{RRF}$ / Conc	RF50 / Conc	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
30 Dibromofluoromethane	50.0	56.96734	0.52115	0.100	-13.93467	50.0	Linear	
35 1,2-Dichloroethane-d4	50.0	55.43012	0.63453	0.100	-10.86024	50.0	Linear	
48 Toluene-d8	1.28735	1.22910	1.22910	0.100	4.52459	50.0	Averaged	
Vinyl Chloride	0.64702	0.79339	0.79339	0.100	-22.62171	50.0	Averaged	
1,1-Dichloroethene	0.36630	0.44476	0.44476	0.100	-21.41922	50.0	Averaged	
Methylene Chloride	50.0	60.86354	0.52359	0.100	-21.72708	50.0	Linear	
cis-1,2-Dichloroethene	0.53977	0.58918	0.58918	0.100	-9.15374	50.0	Averaged	
1,2-Dichloroethane	0.55040	0.54470	0.54470	0.100	1.03579	50.0	Averaged	
Trichloroethene	0.33829	0.34068	0.34068	0.200	-0.70833	50.0	Averaged	
1,1,2-Trichloroethane	0.28552	0.28524	0.28524	0.100	0.09526	50.0	Averaged	
trans-1,2-Dichloroethene	0.42371	0.48160	0.48160	0.100	-13.66213	50.0	Averaged	

Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP Site 16

Workorder HS23070658

RunID VOA6_441712

Volatiles by EPA 8260

Instrument ID VOA6.I
Lab File ID Y071803.D
Analysis Type WATER
Lab Sample ID CCV

Injection Date :55
ICAL Date(s) 14-JUL-2023 14-JUL-2023
ICAL Times :41 15:25
Quant Type ISTD

Compound	$\overline{RRF}$ / Conc	RF50 / Conc	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
1,4-Dioxane	0.00594	0.00590	0.00590	0.001	0.70776	20.0	Averaged	
1,3-Butadiene	0.64248	0.69078	0.69078	0.100	-7.51797	20.0	Averaged	
Methacrylonitrile	0.64539	0.70727	0.70727	0.100	-9.58817	20.0	Averaged	
Isobutyl Alcohol	0.09478	0.09958	0.09958	0.005	-5.06446	20.0	Averaged	
Acetonitrile	0.07011	0.08205	0.08205	0.005	-17.02743	20.0	Averaged	
Allyl Chloride	1.64159	1.91223	1.91223	0.100	-16.48647	20.0	Averaged	
Propionitrile	0.09905	0.10514	0.10514	0.010	-6.15307	20.0	Averaged	
trans-1,4-Dichloro-2-butene	0.15207	0.15702	0.15702	0.050	-3.25521	20.0	Averaged	
Acetaldehyde	200	239	0.05275	0.001	-19.58251	20.0	Linear	
Chloroprene	0.22482	0.25522	0.25522	0.100	-13.52277	20.0	Averaged	
Ethyl Acetate	0.74265	0.75020	0.75020	0.100	-1.01765	20.0	Averaged	
Methyl Methacrylate	0.60347	0.65500	0.65500	0.100	-8.53747	20.0	Averaged	
Ethyl Methacrylate	0.32746	0.31412	0.31412	0.100	4.07189	20.0	Averaged	
Methyl Acrylate	0.67966	0.83517	0.83517	0.100	-22.88101	20.0	Averaged	*
Dichlorodifluoromethane	50.0	45.83424	0.46791	0.100	8.33152	20.0	Linear	
Chloromethane	0.75520	0.66336	0.66336	0.100	12.16189	20.0	Averaged	
Vinyl Chloride	0.64702	0.66547	0.66547	0.100	-2.85161	20.0	Averaged	
Bromomethane	0.26775	0.24870	0.24870	0.100	7.11563	20.0	Averaged	
Chloroethane	0.36936	0.36663	0.36663	0.100	0.74087	20.0	Averaged	
Trichlorofluoromethane	0.65570	0.70080	0.70080	0.100	-6.87738	20.0	Averaged	
Acrolein	100	147	0.02790	0.010	-46.81444	20.0	Linear	*
Acetone	100	117	0.23035	0.100	-17.24191	20.0	Linear	
1,1-Dichloroethene	0.36630	0.36006	0.36006	0.100	1.70485	20.0	Averaged	
Iodomethane	100	85.16888	0.40691	0.100	14.83112	20.0	Quadratic	
Acrylonitrile	0.24365	0.28592	0.28592	0.050	-17.34705	20.0	Averaged	
Methylene Chloride	50.0	52.65863	0.45460	0.100	-5.31726	20.0	Linear	
Methyl tert-butyl ether	1.36234	1.45770	1.45770	0.100	-7.00011	20.0	Averaged	
Carbon Disulfide	1.15144	1.11766	1.11766	0.100	2.93331	20.0	Averaged	
trans-1,2-Dichloroethene	0.42371	0.41902	0.41902	0.100	1.10714	20.0	Averaged	
Vinyl Acetate	1.75234	1.99183	1.99183	0.010	-13.66696	20.0	Averaged	
1,1-Dichloroethane	0.92980	0.95884	0.95884	0.200	-3.12234	20.0	Averaged	
2-Butanone	0.26627	0.27265	0.27265	0.100	-2.39608	20.0	Averaged	
2,2-Dichloropropane	50.0	46.11840	0.66552	0.100	7.76319	20.0	Linear	
cis-1,2-Dichloroethene	0.53977	0.52345	0.52345	0.100	3.02300	20.0	Averaged	

Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP Site 16

Workorder HS23070658

RunID VOA6_441712

Volatiles by EPA 8260

Instrument ID VOA6.I
Lab File ID Y071803.D
Analysis Type WATER
Lab Sample ID CCV

Injection Date :55
ICAL Date(s) 14-JUL-2023 14-JUL-2023
ICAL Times :41 15:25
Quant Type ISTD

Compound	$\overline{RRF}$ / Conc	RF50 / Conc	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
Chloroform	0.95139	0.90306	0.90306	0.200	5.07928	20.0	Averaged	
Bromochloromethane	0.30250	0.29422	0.29422	0.100	2.73676	20.0	Averaged	
30 Dibromofluoromethane	50.0	53.09508	0.48620	0.100	-6.19015	20.0	Linear	
1,1,1-Trichloroethane	0.73237	0.71920	0.71920	0.100	1.79900	20.0	Averaged	
1,1-Dichloropropene	0.40784	0.40296	0.40296	0.100	1.19678	20.0	Averaged	
1,2-Dichloroethane	0.55040	0.56177	0.56177	0.100	-2.06619	20.0	Averaged	
Carbon Tetrachloride	0.41088	0.38927	0.38927	0.100	5.25781	20.0	Averaged	
35 1,2-Dichloroethane-d4	50.0	53.34013	0.61087	0.100	-6.68026	20.0	Linear	
Benzene	1.19597	1.17317	1.17317	0.500	1.90610	20.0	Averaged	
Trichloroethene	0.33829	0.32908	0.32908	0.200	2.72224	20.0	Averaged	
Bromodichloromethane	0.45810	0.44782	0.44782	0.200	2.24398	20.0	Averaged	
2-Chloroethylvinyl ether	0.13987	0.14095	0.14095	0.001	-0.77579	20.0	Averaged	
1,2-Dichloropropane	0.38457	0.39599	0.39599	0.100	-2.96910	20.0	Averaged	
Dibromomethane	0.21769	0.21462	0.21462	0.100	1.41126	20.0	Averaged	
4-Methyl-2-Pentanone	0.49202	0.49842	0.49842	0.100	-1.30003	20.0	Averaged	
cis-1,3-Dichloropropene	0.52616	0.52476	0.52476	0.200	0.26691	20.0	Averaged	
48 Toluene-d8	1.28735	1.20674	1.20674	0.100	6.26153	20.0	Averaged	
Toluene	1.34593	1.36085	1.36085	0.400	-1.10846	20.0	Averaged	
trans-1,3-Dichloropropene	0.44354	0.45049	0.45049	0.100	-1.56886	20.0	Averaged	
2-Hexanone	0.32321	0.33181	0.33181	0.100	-2.66028	20.0	Averaged	
1,1,2-Trichloroethane	0.28552	0.28595	0.28595	0.100	-0.15155	20.0	Averaged	
1,3-Dichloropropane	0.58331	0.58059	0.58059	0.100	0.46574	20.0	Averaged	
Dibromochloromethane	0.41218	0.42156	0.42156	0.100	-2.27365	20.0	Averaged	
Tetrachloroethene	0.27806	0.27321	0.27321	0.200	1.74549	20.0	Averaged	
1,2-Dibromoethane	0.32627	0.32064	0.32064	0.100	1.72528	20.0	Averaged	
1-Chlorohexane	0.40168	0.35791	0.35791	0.100	10.89680	20.0	Averaged	
Chlorobenzene	0.94084	0.90844	0.90844	0.500	3.44399	20.0	Averaged	
1,1,1,2-Tetrachloroethane	0.36833	0.36769	0.36769	0.100	0.17458	20.0	Averaged	
Ethylbenzene	0.47179	0.44592	0.44592	0.100	5.48397	20.0	Averaged	
m,p-Xylenes	0.59188	0.56852	0.56852	0.100	3.94698	20.0	Averaged	
o-Xylene	0.56049	0.56749	0.56749	0.300	-1.24827	20.0	Averaged	
Styrene	0.97767	0.98795	0.98795	0.300	-1.05199	20.0	Averaged	
Bromoform	0.26446	0.27268	0.27268	0.100	-3.10776	20.0	Averaged	
Isopropylbenzene	1.44071	1.39830	1.39830	0.100	2.94372	20.0	Averaged	

Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP Site 16

Workorder HS23070658

RunID VOA6_441712

Volatiles by EPA 8260

Instrument ID VOA6.I
Lab File ID Y071803.D
Analysis Type WATER
Lab Sample ID CCV

Injection Date :55
ICAL Date(s) 14-JUL-2023 14-JUL-2023
ICAL Times :41 15:25
Quant Type ISTD

Compound	$\overline{RRF}$ / Conc	RF50 / Conc	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
1,1,2,2-Tetrachloroethane	0.83983	0.83271	0.83271	0.300	0.84775	20.0	Averaged	
1,2,3-Trichloropropane	0.66643	0.66048	0.66048	0.100	0.89266	20.0	Averaged	
n-Propylbenzene	3.02147	2.92571	2.92571	0.100	3.16931	20.0	Averaged	
Bromobenzene	0.78198	0.75892	0.75892	0.100	2.94884	20.0	Averaged	
1,3,5-Trimethylbenzene	2.26350	2.13554	2.13554	0.100	5.65317	20.0	Averaged	
2-Chlorotoluene	2.03821	1.93580	1.93580	0.100	5.02441	20.0	Averaged	
4-Chlorotoluene	2.23973	2.20052	2.20052	0.100	1.75064	20.0	Averaged	
tert-Butylbenzene	1.94110	1.83358	1.83358	0.100	5.53920	20.0	Averaged	
1,2,4-Trimethylbenzene	2.26985	2.20234	2.20234	0.100	2.97413	20.0	Averaged	
sec-Butylbenzene	2.58735	2.50752	2.50752	0.100	3.08533	20.0	Averaged	
p-Isopropyltoluene	2.36350	2.21490	2.21490	0.100	6.28716	20.0	Averaged	
1,3-Dichlorobenzene	1.36227	1.34066	1.34066	0.600	1.58596	20.0	Averaged	
1,4-Dichlorobenzene	1.49361	1.41430	1.41430	0.400	5.30995	20.0	Averaged	
n-Butylbenzene	1.97948	1.92876	1.92876	0.500	2.56216	20.0	Averaged	
1,2-Dichlorobenzene	1.33929	1.37739	1.37739	0.400	-2.84512	20.0	Averaged	
1,2-Dibromo-3-Chloropropane	50.0	49.50766	0.13666	0.040	0.98467	20.0	Linear	
1,2,4-Trichlorobenzene	0.91986	0.86146	0.86146	0.100	6.34877	20.0	Averaged	
Hexachlorobutadiene	50.0	43.88232	0.36944	0.100	12.23536	20.0	Linear	
Naphthalene	2.27672	2.31206	2.31206	0.200	-1.55215	20.0	Averaged	
1,2,3-Trichlorobenzene	0.86027	0.81767	0.81767	0.010	4.95189	20.0	Averaged	
94 1,2-Dichloroethylene (total	0.48174	0.47124	0.47124	0.200	2.18046	20.0	Averaged	
95 Xylenes (total)	0.53613	0.52948	0.52948	0.100	1.24167	20.0	Averaged	
Cyclohexane	0.86668	0.84927	0.84927	0.100	2.00845	20.0	Averaged	
Freon TF	50.0	55.94542	0.35198	0.100	-11.89083	20.0	Quadratic	
Methylcyclohexane	1.05536	1.13755	1.13755	0.100	-7.78784	20.0	Averaged	
Methyl Acetate	0.44499	0.54405	0.54405	0.100	-22.26098	20.0	Averaged	*
Tert-butyl alcohol	0.06311	0.06743	0.06743	0.005	-6.85504	20.0	Averaged	
Isopropyl alcohol	0.03916	0.04440	0.04440	0.005	-13.39436	20.0	Averaged	

Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP Site 16

Workorder HS23070658

RunID VOA6_441712

Volatiles by EPA 8260

Instrument ID VOA6.I
Lab File ID Y071820.D
Analysis Type WATER
Lab Sample ID CCV-END

Injection Date :43
ICAL Date(s) 14-JUL-2023 14-JUL-2023
ICAL Times :41 15:25
Quant Type ISTD

Compound	$\overline{RRF}$ / Conc	RF50 / Conc	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
1,4-Dioxane	0.00594	0.00582	0.00582	0.001	2.06443	50.0	Averaged	
1,3-Butadiene	0.64248	0.64778	0.64778	0.100	-0.82465	50.0	Averaged	
Methacrylonitrile	0.64539	0.83338	0.83338	0.100	-29.12873	50.0	Averaged	
Isobutyl Alcohol	0.09478	0.11781	0.11781	0.005	-24.30001	50.0	Averaged	
Acetonitrile	0.07011	0.08873	0.08873	0.005	-26.54533	50.0	Averaged	
Allyl Chloride	1.64159	2.02218	2.02218	0.100	-23.18404	50.0	Averaged	
Propionitrile	0.09905	0.11611	0.11611	0.010	-17.22430	50.0	Averaged	
trans-1,4-Dichloro-2-butene	0.15207	0.14943	0.14943	0.050	1.73672	50.0	Averaged	
Acetaldehyde	200	242	0.05338	0.001	-21.14701	50.0	Linear	
Chloroprene	0.22482	0.23096	0.23096	0.100	-2.73195	50.0	Averaged	
Ethyl Acetate	0.74265	0.90294	0.90294	0.100	-21.58468	50.0	Averaged	
Methyl Methacrylate	0.60347	0.59461	0.59461	0.100	1.46812	50.0	Averaged	
Ethyl Methacrylate	0.32746	0.29719	0.29719	0.100	9.24326	50.0	Averaged	
Methyl Acrylate	0.67966	0.76168	0.76168	0.100	-12.06728	50.0	Averaged	
Dichlorodifluoromethane	50.0	41.71826	0.42486	0.100	16.56347	50.0	Linear	
Chloromethane	0.75520	0.68726	0.68726	0.100	8.99647	50.0	Averaged	
Vinyl Chloride	0.64702	0.63745	0.63745	0.100	1.47932	50.0	Averaged	
Bromomethane	0.26775	0.25342	0.25342	0.100	5.35402	50.0	Averaged	
Chloroethane	0.36936	0.36043	0.36043	0.100	2.41962	50.0	Averaged	
Trichlorofluoromethane	0.65570	0.64451	0.64451	0.100	1.70648	50.0	Averaged	
Acrolein	100	153	0.02918	0.010	-53.49586	50.0	Linear	
Acetone	100	126	0.24678	0.100	-25.95339	50.0	Linear	
1,1-Dichloroethene	0.36630	0.33871	0.33871	0.100	7.53280	50.0	Averaged	
Iodomethane	100	94.91918	0.45696	0.100	5.08082	50.0	Quadratic	
Acrylonitrile	0.24365	0.28726	0.28726	0.050	-17.89657	50.0	Averaged	
Methylene Chloride	50.0	51.36637	0.44374	0.100	-2.73274	50.0	Linear	
Methyl tert-butyl ether	1.36234	1.44689	1.44689	0.100	-6.20665	50.0	Averaged	
Carbon Disulfide	1.15144	1.08459	1.08459	0.100	5.80558	50.0	Averaged	
trans-1,2-Dichloroethene	0.42371	0.40489	0.40489	0.100	4.44150	50.0	Averaged	
Vinyl Acetate	1.75234	1.91444	1.91444	0.010	-9.25012	50.0	Averaged	
1,1-Dichloroethane	0.92980	0.96652	0.96652	0.200	-3.94822	50.0	Averaged	
2-Butanone	0.26627	0.32069	0.32069	0.100	-20.43889	50.0	Averaged	
2,2-Dichloropropane	50.0	42.90148	0.61888	0.100	14.19703	50.0	Linear	
cis-1,2-Dichloroethene	0.53977	0.55044	0.55044	0.100	-1.97580	50.0	Averaged	

Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP Site 16

Workorder HS23070658

RunID VOA6_441712

Volatiles by EPA 8260

Instrument ID VOA6.I
Lab File ID Y071820.D
Analysis Type WATER
Lab Sample ID CCV-END

Injection Date :43
ICAL Date(s) 14-JUL-2023 14-JUL-2023
ICAL Times :41 15:25
Quant Type ISTD

Compound	$\overline{RRF}$ / Conc	RF50 / Conc	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
Chloroform	0.95139	0.95490	0.95490	0.200	-0.36875	50.0	Averaged	
Bromochloromethane	0.30250	0.29931	0.29931	0.100	1.05332	50.0	Averaged	
30 Dibromofluoromethane	50.0	55.61404	0.50893	0.100	-11.22808	50.0	Linear	
1,1,1-Trichloroethane	0.73237	0.75141	0.75141	0.100	-2.59897	50.0	Averaged	
1,1-Dichloropropene	0.40784	0.37472	0.37472	0.100	8.12128	50.0	Averaged	
1,2-Dichloroethane	0.55040	0.59426	0.59426	0.100	-7.96896	50.0	Averaged	
Carbon Tetrachloride	0.41088	0.37571	0.37571	0.100	8.55753	50.0	Averaged	
35 1,2-Dichloroethane-d4	50.0	57.75267	0.66082	0.100	-15.50534	50.0	Linear	
Benzene	1.19597	1.16700	1.16700	0.500	2.42231	50.0	Averaged	
Trichloroethene	0.33829	0.32842	0.32842	0.200	2.91642	50.0	Averaged	
Bromodichloromethane	0.45810	0.43606	0.43606	0.200	4.81011	50.0	Averaged	
2-Chloroethylvinyl ether	0.13987	0.13518	0.13518	0.001	3.34868	50.0	Averaged	
1,2-Dichloropropane	0.38457	0.39049	0.39049	0.100	-1.53965	50.0	Averaged	
Dibromomethane	0.21769	0.20576	0.20576	0.100	5.47783	50.0	Averaged	
4-Methyl-2-Pentanone	0.49202	0.47027	0.47027	0.100	4.42078	50.0	Averaged	
cis-1,3-Dichloropropene	0.52616	0.50107	0.50107	0.200	4.76935	50.0	Averaged	
48 Toluene-d8	1.28735	1.19914	1.19914	0.100	6.85152	50.0	Averaged	
Toluene	1.34593	1.27371	1.27371	0.400	5.36597	50.0	Averaged	
trans-1,3-Dichloropropene	0.44354	0.42927	0.42927	0.100	3.21591	50.0	Averaged	
2-Hexanone	0.32321	0.31064	0.31064	0.100	3.88818	50.0	Averaged	
1,1,2-Trichloroethane	0.28552	0.27179	0.27179	0.100	4.80891	50.0	Averaged	
1,3-Dichloropropane	0.58331	0.55194	0.55194	0.100	5.37654	50.0	Averaged	
Dibromochloromethane	0.41218	0.41180	0.41180	0.100	0.09324	50.0	Averaged	
Tetrachloroethene	0.27806	0.24376	0.24376	0.200	12.33585	50.0	Averaged	
1,2-Dibromoethane	0.32627	0.30889	0.30889	0.100	5.32773	50.0	Averaged	
1-Chlorohexane	0.40168	0.28881	0.28881	0.100	28.09952	50.0	Averaged	
Chlorobenzene	0.94084	0.87546	0.87546	0.500	6.94963	50.0	Averaged	
1,1,1,2-Tetrachloroethane	0.36833	0.36397	0.36397	0.100	1.18460	50.0	Averaged	
Ethylbenzene	0.47179	0.42055	0.42055	0.100	10.85988	50.0	Averaged	
m,p-Xylenes	0.59188	0.53531	0.53531	0.100	9.55656	50.0	Averaged	
o-Xylene	0.56049	0.54161	0.54161	0.300	3.36826	50.0	Averaged	
Styrene	0.97767	0.94178	0.94178	0.300	3.67128	50.0	Averaged	
Bromoform	0.26446	0.26557	0.26557	0.100	-0.41993	50.0	Averaged	
Isopropylbenzene	1.44071	1.25312	1.25312	0.100	13.02114	50.0	Averaged	

Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP Site 16

Workorder HS23070658

RunID VOA6_441712

Volatiles by EPA 8260

Instrument ID VOA6.I
Lab File ID Y071820.D
Analysis Type WATER
Lab Sample ID CCV-END

Injection Date :43
ICAL Date(s) 14-JUL-2023 14-JUL-2023
ICAL Times :41 15:25
Quant Type ISTD

Compound	$\overline{RRF}$ / Conc	RF50 / Conc	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
1,1,2,2-Tetrachloroethane	0.83983	0.73527	0.73527	0.300	12.44974	50.0	Averaged	
1,2,3-Trichloropropane	0.66643	0.62087	0.62087	0.100	6.83741	50.0	Averaged	
n-Propylbenzene	3.02147	2.64111	2.64111	0.100	12.58864	50.0	Averaged	
Bromobenzene	0.78198	0.72686	0.72686	0.100	7.04928	50.0	Averaged	
1,3,5-Trimethylbenzene	2.26350	1.96181	1.96181	0.100	13.32821	50.0	Averaged	
2-Chlorotoluene	2.03821	1.77869	1.77869	0.100	12.73296	50.0	Averaged	
4-Chlorotoluene	2.23973	2.05970	2.05970	0.100	8.03807	50.0	Averaged	
tert-Butylbenzene	1.94110	1.64819	1.64819	0.100	15.08999	50.0	Averaged	
1,2,4-Trimethylbenzene	2.26985	2.00523	2.00523	0.100	11.65797	50.0	Averaged	
sec-Butylbenzene	2.58735	2.14331	2.14331	0.100	17.16219	50.0	Averaged	
p-Isopropyltoluene	2.36350	1.96417	1.96417	0.100	16.89559	50.0	Averaged	
1,3-Dichlorobenzene	1.36227	1.25911	1.25911	0.600	7.57276	50.0	Averaged	
1,4-Dichlorobenzene	1.49361	1.33887	1.33887	0.400	10.36034	50.0	Averaged	
n-Butylbenzene	1.97948	1.64509	1.64509	0.500	16.89276	50.0	Averaged	
1,2-Dichlorobenzene	1.33929	1.30290	1.30290	0.400	2.71661	50.0	Averaged	
1,2-Dibromo-3-Chloropropane	50.0	47.55488	0.13115	0.040	4.89025	50.0	Linear	
1,2,4-Trichlorobenzene	0.91986	0.76624	0.76624	0.100	16.69990	50.0	Averaged	
Hexachlorobutadiene	50.0	35.01706	0.29057	0.100	29.96587	50.0	Linear	
Naphthalene	2.27672	2.02836	2.02836	0.200	10.90840	50.0	Averaged	
1,2,3-Trichlorobenzene	0.86027	0.72526	0.72526	0.010	15.69393	50.0	Averaged	
94 1,2-Dichloroethylene (total	0.48174	0.47766	0.47766	0.200	0.84633	50.0	Averaged	
95 Xylenes (total)	0.53613	0.49683	0.49683	0.100	7.33084	50.0	Averaged	
Cyclohexane	0.86668	0.74645	0.74645	0.100	13.87236	50.0	Averaged	
Freon TF	50.0	46.81455	0.28600	0.100	6.37090	50.0	Quadratic	
Methylcyclohexane	1.05536	1.06956	1.06956	0.100	-1.34531	50.0	Averaged	
Methyl Acetate	0.44499	0.58138	0.58138	0.100	-30.65153	50.0	Averaged	
Tert-butyl alcohol	0.06311	0.06871	0.06871	0.005	-8.88040	50.0	Averaged	
Isopropyl alcohol	0.03916	0.04729	0.04729	0.005	-20.77324	50.0	Averaged	

Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP Site 16

Workorder HS23070658

RunID VOA6_441778

Volatiles by EPA 8260

Instrument ID VOA6.I
Lab File ID X071903.D
Analysis Type WATER
Lab Sample ID CCV

Injection Date :49
ICAL Date(s) 14-JUL-2023 14-JUL-2023
ICAL Times :41 15:25
Quant Type ISTD

Compound	$\overline{RRF}$ / Conc	RF50 / Conc	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
1,4-Dioxane	0.00594	0.00576	0.00576	0.001	3.01541	20.0	Averaged	
1,3-Butadiene	0.64248	0.67298	0.67298	0.100	-4.74699	20.0	Averaged	
Methacrylonitrile	0.64539	0.68182	0.68182	0.100	-5.64467	20.0	Averaged	
Isobutyl Alcohol	0.09478	0.09903	0.09903	0.005	-4.48240	20.0	Averaged	
Acetonitrile	0.07011	0.07626	0.07626	0.005	-8.76778	20.0	Averaged	
Allyl Chloride	1.64159	1.83182	1.83182	0.100	-11.58814	20.0	Averaged	
Propionitrile	0.09905	0.10361	0.10361	0.010	-4.60294	20.0	Averaged	
trans-1,4-Dichloro-2-butene	0.15207	0.16685	0.16685	0.050	-9.72151	20.0	Averaged	
Acetaldehyde	200	236	0.05213	0.001	-18.02647	20.0	Linear	
Chloroprene	0.22482	0.23215	0.23215	0.100	-3.26380	20.0	Averaged	
Ethyl Acetate	0.74265	0.75898	0.75898	0.100	-2.19993	20.0	Averaged	
Methyl Methacrylate	0.60347	0.59541	0.59541	0.100	1.33671	20.0	Averaged	
Ethyl Methacrylate	0.32746	0.30045	0.30045	0.100	8.24690	20.0	Averaged	
Methyl Acrylate	0.67966	0.71588	0.71588	0.100	-5.32917	20.0	Averaged	
n-Butanol	0.01664	0.01613	0.01613	0.005	3.07796	20.0	Averaged	
n-Hexane	50.0	55.06409	0.54617	0.100	-10.12818	20.0	Quadratic	
Diethyl ether	0.46625	0.49123	0.49123	0.100	-5.35923	20.0	Averaged	
Diisopropyl ether	2.06077	2.27097	2.27097	0.100	-10.20001	20.0	Averaged	
Dichlorodifluoromethane	50.0	45.21295	0.46142	0.100	9.57409	20.0	Linear	
Chloromethane	0.75520	0.75209	0.75209	0.100	0.41254	20.0	Averaged	
Vinyl Chloride	0.64702	0.64090	0.64090	0.100	0.94687	20.0	Averaged	
Bromomethane	0.26775	0.25668	0.25668	0.100	4.13648	20.0	Averaged	
Chloroethane	0.36936	0.35565	0.35565	0.100	3.71326	20.0	Averaged	
Trichlorofluoromethane	0.65570	0.70515	0.70515	0.100	-7.54013	20.0	Averaged	
Acrolein	100	142	0.02704	0.010	-42.35664	20.0	Linear	*
Acetone	100	114	0.22424	0.100	-14.00596	20.0	Linear	
1,1-Dichloroethene	0.36630	0.35064	0.35064	0.100	4.27569	20.0	Averaged	
Iodomethane	100	92.19600	0.44295	0.100	7.80400	20.0	Quadratic	
Acrylonitrile	0.24365	0.27603	0.27603	0.050	-13.28726	20.0	Averaged	
Methylene Chloride	50.0	51.01048	0.44074	0.100	-2.02096	20.0	Linear	
Methyl tert-butyl ether	1.36234	1.40562	1.40562	0.100	-3.17673	20.0	Averaged	
Carbon Disulfide	1.15144	1.11100	1.11100	0.100	3.51173	20.0	Averaged	
trans-1,2-Dichloroethene	0.42371	0.40611	0.40611	0.100	4.15467	20.0	Averaged	
Vinyl Acetate	1.75234	2.03055	2.03055	0.010	-15.87620	20.0	Averaged	

Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP Site 16

Workorder HS23070658

RunID VOA6_441778

Volatiles by EPA 8260

Instrument ID VOA6.I
Lab File ID X071903.D
Analysis Type WATER
Lab Sample ID CCV

Injection Date :49
ICAL Date(s) 14-JUL-2023 14-JUL-2023
ICAL Times :41 15:25
Quant Type ISTD

Compound	$\overline{RRF}$ / Conc	RF50 / Conc	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
1,1-Dichloroethane	0.92980	0.94693	0.94693	0.200	-1.84226	20.0	Averaged	
2-Butanone	0.26627	0.26569	0.26569	0.100	0.21815	20.0	Averaged	
2,2-Dichloropropane	50.0	48.16285	0.69515	0.100	3.67430	20.0	Linear	
cis-1,2-Dichloroethene	0.53977	0.51893	0.51893	0.100	3.86053	20.0	Averaged	
Chloroform	0.95139	0.89129	0.89129	0.200	6.31653	20.0	Averaged	
Bromochloromethane	0.30250	0.28702	0.28702	0.100	5.11663	20.0	Averaged	
30 Dibromofluoromethane	50.0	54.82542	0.50182	0.100	-9.65085	20.0	Linear	
1,1,1-Trichloroethane	0.73237	0.72055	0.72055	0.100	1.61386	20.0	Averaged	
1,1-Dichloropropene	0.40784	0.38024	0.38024	0.100	6.76748	20.0	Averaged	
1,2-Dichloroethane	0.55040	0.53639	0.53639	0.100	2.54556	20.0	Averaged	
Carbon Tetrachloride	0.41088	0.37319	0.37319	0.100	9.17251	20.0	Averaged	
35 1,2-Dichloroethane-d4	50.0	53.22279	0.60954	0.100	-6.44557	20.0	Linear	
Benzene	1.19597	1.12737	1.12737	0.500	5.73580	20.0	Averaged	
Trichloroethene	0.33829	0.31784	0.31784	0.200	6.04414	20.0	Averaged	
Bromodichloromethane	0.45810	0.43741	0.43741	0.200	4.51648	20.0	Averaged	
2-Chloroethylvinyl ether	0.13987	0.13871	0.13871	0.001	0.82804	20.0	Averaged	
1,2-Dichloropropane	0.38457	0.37998	0.37998	0.100	1.19331	20.0	Averaged	
Dibromomethane	0.21769	0.20695	0.20695	0.100	4.93252	20.0	Averaged	
4-Methyl-2-Pentanone	0.49202	0.47473	0.47473	0.100	3.51471	20.0	Averaged	
cis-1,3-Dichloropropene	0.52616	0.51753	0.51753	0.200	1.64022	20.0	Averaged	
48 Toluene-d8	1.28735	1.22509	1.22509	0.100	4.83591	20.0	Averaged	
Toluene	1.34593	1.31408	1.31408	0.400	2.36609	20.0	Averaged	
trans-1,3-Dichloropropene	0.44354	0.44457	0.44457	0.100	-0.23364	20.0	Averaged	
2-Hexanone	0.32321	0.31238	0.31238	0.100	3.34999	20.0	Averaged	
1,1,2-Trichloroethane	0.28552	0.27430	0.27430	0.100	3.92857	20.0	Averaged	
1,3-Dichloropropane	0.58331	0.56646	0.56646	0.100	2.88735	20.0	Averaged	
Dibromochloromethane	0.41218	0.42140	0.42140	0.100	-2.23601	20.0	Averaged	
Tetrachloroethene	0.27806	0.26008	0.26008	0.200	6.46761	20.0	Averaged	
1,2-Dibromoethane	0.32627	0.31762	0.31762	0.100	2.64911	20.0	Averaged	
1-Chlorohexane	0.40168	0.34232	0.34232	0.100	14.77753	20.0	Averaged	
Chlorobenzene	0.94084	0.89165	0.89165	0.500	5.22872	20.0	Averaged	
1,1,1,2-Tetrachloroethane	0.36833	0.36688	0.36688	0.100	0.39229	20.0	Averaged	
Ethylbenzene	0.47179	0.43422	0.43422	0.100	7.96346	20.0	Averaged	
m,p-Xylenes	0.59188	0.55081	0.55081	0.100	6.93851	20.0	Averaged	

Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP Site 16

Workorder HS23070658

RunID VOA6_441778

Volatiles by EPA 8260

Instrument ID VOA6.I
Lab File ID X071903.D
Analysis Type WATER
Lab Sample ID CCV

Injection Date :49
ICAL Date(s) 14-JUL-2023 14-JUL-2023
ICAL Times :41 15:25
Quant Type ISTD

Compound	$\overline{RRF}$ / Conc	RF50 / Conc	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
o-Xylene	0.56049	0.54328	0.54328	0.300	3.07145	20.0	Averaged	
Styrene	0.97767	0.95377	0.95377	0.300	2.44493	20.0	Averaged	
Bromoform	0.26446	0.26470	0.26470	0.100	-0.09082	20.0	Averaged	
Isopropylbenzene	1.44071	1.33026	1.33026	0.100	7.66623	20.0	Averaged	
1,1,2,2-Tetrachloroethane	0.83983	0.80447	0.80447	0.300	4.21013	20.0	Averaged	
1,2,3-Trichloropropane	0.66643	0.63579	0.63579	0.100	4.59836	20.0	Averaged	
n-Propylbenzene	3.02147	2.84266	2.84266	0.100	5.91773	20.0	Averaged	
Bromobenzene	0.78198	0.74155	0.74155	0.100	5.17058	20.0	Averaged	
1,3,5-Trimethylbenzene	2.26350	2.06414	2.06414	0.100	8.80750	20.0	Averaged	
2-Chlorotoluene	2.03821	1.83737	1.83737	0.100	9.85397	20.0	Averaged	
4-Chlorotoluene	2.23973	2.15643	2.15643	0.100	3.71939	20.0	Averaged	
tert-Butylbenzene	1.94110	1.74158	1.74158	0.100	10.27884	20.0	Averaged	
1,2,4-Trimethylbenzene	2.26985	2.10851	2.10851	0.100	7.10783	20.0	Averaged	
sec-Butylbenzene	2.58735	2.33557	2.33557	0.100	9.73133	20.0	Averaged	
p-Isopropyltoluene	2.36350	2.11084	2.11084	0.100	10.69023	20.0	Averaged	
1,3-Dichlorobenzene	1.36227	1.29038	1.29038	0.600	5.27728	20.0	Averaged	
1,4-Dichlorobenzene	1.49361	1.40777	1.40777	0.400	5.74712	20.0	Averaged	
n-Butylbenzene	1.97948	1.82866	1.82866	0.500	7.61924	20.0	Averaged	
1,2-Dichlorobenzene	1.33929	1.30068	1.30068	0.400	2.88255	20.0	Averaged	
1,2-Dibromo-3-Chloropropane	50.0	46.93128	0.12939	0.040	6.13743	20.0	Linear	
1,2,4-Trichlorobenzene	0.91986	0.82730	0.82730	0.100	10.06181	20.0	Averaged	
Hexachlorobutadiene	50.0	42.65651	0.35853	0.100	14.68698	20.0	Linear	
Naphthalene	2.27672	2.09670	2.09670	0.200	7.90710	20.0	Averaged	
1,2,3-Trichlorobenzene	0.86027	0.75254	0.75254	0.010	12.52255	20.0	Averaged	
94 1,2-Dichloroethylene (total	0.48174	0.46252	0.46252	0.200	3.98988	20.0	Averaged	
95 Xylenes (total)	0.53613	0.50279	0.50279	0.100	6.21843	20.0	Averaged	
Cyclohexane	0.86668	0.78912	0.78912	0.100	8.94897	20.0	Averaged	
Freon TF	50.0	54.16892	0.33874	0.100	-8.33783	20.0	Quadratic	
Methylcyclohexane	1.05536	0.99054	0.99054	0.100	6.14251	20.0	Averaged	
Methyl Acetate	0.44499	0.53135	0.53135	0.100	-19.40689	20.0	Averaged	
Tert-butyl alcohol	0.06311	0.06525	0.06525	0.005	-3.39769	20.0	Averaged	
Isopropyl alcohol	0.03916	0.04353	0.04353	0.005	-11.15565	20.0	Averaged	

Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP Site 16

Workorder HS23070658

RunID VOA6_441778

Volatiles by EPA 8260

Instrument ID VOA6.I
Lab File ID X071914.D
Analysis Type WATER
Lab Sample ID CCV-END

Injection Date :34
ICAL Date(s) 14-JUL-2023 14-JUL-2023
ICAL Times :41 15:25
Quant Type ISTD

Compound	$\overline{RRF}$ / Conc	RF50 / Conc	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
1,4-Dioxane	0.00594	0.00567	0.00567	0.001	4.51719	50.0	Averaged	
1,3-Butadiene	0.64248	0.75015	0.75015	0.100	-16.75839	50.0	Averaged	
Methacrylonitrile	0.64539	0.68972	0.68972	0.100	-6.86885	50.0	Averaged	
Isobutyl Alcohol	0.09478	0.09745	0.09745	0.005	-2.81445	50.0	Averaged	
Acetonitrile	0.07011	0.08571	0.08571	0.005	-22.24323	50.0	Averaged	
Allyl Chloride	1.64159	2.00589	2.00589	0.100	-22.19213	50.0	Averaged	
Propionitrile	0.09905	0.09953	0.09953	0.010	-0.49168	50.0	Averaged	
trans-1,4-Dichloro-2-butene	0.15207	0.15805	0.15805	0.050	-3.93078	50.0	Averaged	
Acetaldehyde	200	259	0.05679	0.001	-29.59183	50.0	Linear	
Chloroprene	0.22482	0.26064	0.26064	0.100	-15.93263	50.0	Averaged	
Ethyl Acetate	0.74265	0.74916	0.74916	0.100	-0.87675	50.0	Averaged	
Methyl Methacrylate	0.60347	0.59390	0.59390	0.100	1.58733	50.0	Averaged	
Ethyl Methacrylate	0.32746	0.29125	0.29125	0.100	11.05824	50.0	Averaged	
Methyl Acrylate	0.67966	0.68861	0.68861	0.100	-1.31740	50.0	Averaged	
n-Butanol	0.01664	0.01640	0.01640	0.005	1.47496	50.0	Averaged	
n-Hexane	50.0	53.63185	0.52920	0.100	-7.26369	50.0	Quadratic	
Diethyl ether	0.46625	0.49027	0.49027	0.100	-5.15205	50.0	Averaged	
Diisopropyl ether	2.06077	2.27704	2.27704	0.100	-10.49482	50.0	Averaged	
Dichlorodifluoromethane	50.0	47.39719	0.48426	0.100	5.20563	50.0	Linear	
Chloromethane	0.75520	0.79059	0.79059	0.100	-4.68595	50.0	Averaged	
Vinyl Chloride	0.64702	0.68642	0.68642	0.100	-6.08938	50.0	Averaged	
Bromomethane	0.26775	0.26769	0.26769	0.100	0.02316	50.0	Averaged	
Chloroethane	0.36936	0.37008	0.37008	0.100	-0.19424	50.0	Averaged	
Trichlorofluoromethane	0.65570	0.73082	0.73082	0.100	-11.45536	50.0	Averaged	
Acrolein	100	144	0.02732	0.010	-43.77529	50.0	Linear	
Acetone	100	120	0.23530	0.100	-19.86773	50.0	Linear	
1,1-Dichloroethene	0.36630	0.38016	0.38016	0.100	-3.78158	50.0	Averaged	
Iodomethane	100	94.28210	0.45368	0.100	5.71790	50.0	Quadratic	
Acrylonitrile	0.24365	0.29059	0.29059	0.050	-19.26537	50.0	Averaged	
Methylene Chloride	50.0	51.73571	0.44684	0.100	-3.47142	50.0	Linear	
Methyl tert-butyl ether	1.36234	1.40170	1.40170	0.100	-2.88899	50.0	Averaged	
Carbon Disulfide	1.15144	1.17122	1.17122	0.100	-1.71840	50.0	Averaged	
trans-1,2-Dichloroethene	0.42371	0.42557	0.42557	0.100	-0.43762	50.0	Averaged	
Vinyl Acetate	1.75234	2.04961	2.04961	0.010	-16.96434	50.0	Averaged	

Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP Site 16

Workorder HS23070658

RunID VOA6_441778

Volatiles by EPA 8260

Instrument ID VOA6.I
Lab File ID X071914.D
Analysis Type WATER
Lab Sample ID CCV-END

Injection Date :34
ICAL Date(s) 14-JUL-2023 14-JUL-2023
ICAL Times :41 15:25
Quant Type ISTD

Compound	$\overline{RRF}$ / Conc	RF50 / Conc	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
1,1-Dichloroethane	0.92980	0.97691	0.97691	0.200	-5.06606	50.0	Averaged	
2-Butanone	0.26627	0.27111	0.27111	0.100	-1.81816	50.0	Averaged	
2,2-Dichloropropane	50.0	48.46430	0.69952	0.100	3.07139	50.0	Linear	
cis-1,2-Dichloroethene	0.53977	0.52003	0.52003	0.100	3.65775	50.0	Averaged	
Chloroform	0.95139	0.91273	0.91273	0.200	4.06343	50.0	Averaged	
Bromochloromethane	0.30250	0.28891	0.28891	0.100	4.49395	50.0	Averaged	
30 Dibromofluoromethane	50.0	54.07665	0.49506	0.100	-8.15329	50.0	Linear	
1,1,1-Trichloroethane	0.73237	0.73497	0.73497	0.100	-0.35537	50.0	Averaged	
1,1-Dichloropropene	0.40784	0.37978	0.37978	0.100	6.87897	50.0	Averaged	
1,2-Dichloroethane	0.55040	0.54255	0.54255	0.100	1.42589	50.0	Averaged	
Carbon Tetrachloride	0.41088	0.37576	0.37576	0.100	8.54599	50.0	Averaged	
35 1,2-Dichloroethane-d4	50.0	52.52978	0.60170	0.100	-5.05955	50.0	Linear	
Benzene	1.19597	1.14478	1.14478	0.500	4.28000	50.0	Averaged	
Trichloroethene	0.33829	0.32690	0.32690	0.200	3.36611	50.0	Averaged	
Bromodichloromethane	0.45810	0.43749	0.43749	0.200	4.49846	50.0	Averaged	
2-Chloroethylvinyl ether	0.13987	0.13835	0.13835	0.001	1.08646	50.0	Averaged	
1,2-Dichloropropane	0.38457	0.38377	0.38377	0.100	0.20804	50.0	Averaged	
Dibromomethane	0.21769	0.20763	0.20763	0.100	4.62232	50.0	Averaged	
4-Methyl-2-Pentanone	0.49202	0.47391	0.47391	0.100	3.68253	50.0	Averaged	
cis-1,3-Dichloropropene	0.52616	0.51618	0.51618	0.200	1.89587	50.0	Averaged	
48 Toluene-d8	1.28735	1.23616	1.23616	0.100	3.97609	50.0	Averaged	
Toluene	1.34593	1.36274	1.36274	0.400	-1.24911	50.0	Averaged	
trans-1,3-Dichloropropene	0.44354	0.43617	0.43617	0.100	1.66088	50.0	Averaged	
2-Hexanone	0.32321	0.31732	0.31732	0.100	1.82338	50.0	Averaged	
1,1,2-Trichloroethane	0.28552	0.27637	0.27637	0.100	3.20372	50.0	Averaged	
1,3-Dichloropropane	0.58331	0.56932	0.56932	0.100	2.39848	50.0	Averaged	
Dibromochloromethane	0.41218	0.41884	0.41884	0.100	-1.61437	50.0	Averaged	
Tetrachloroethene	0.27806	0.26987	0.26987	0.200	2.94603	50.0	Averaged	
1,2-Dibromoethane	0.32627	0.31173	0.31173	0.100	4.45570	50.0	Averaged	
1-Chlorohexane	0.40168	0.33809	0.33809	0.100	15.83110	50.0	Averaged	
Chlorobenzene	0.94084	0.91132	0.91132	0.500	3.13725	50.0	Averaged	
1,1,1,2-Tetrachloroethane	0.36833	0.37413	0.37413	0.100	-1.57573	50.0	Averaged	
Ethylbenzene	0.47179	0.43765	0.43765	0.100	7.23645	50.0	Averaged	
m,p-Xylenes	0.59188	0.57338	0.57338	0.100	3.12526	50.0	Averaged	

Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP Site 16

Workorder HS23070658

RunID VOA6_441778

Volatiles by EPA 8260

Instrument ID VOA6.I
Lab File ID X071914.D
Analysis Type WATER
Lab Sample ID CCV-END

Injection Date :34
ICAL Date(s) 14-JUL-2023 14-JUL-2023
ICAL Times :41 15:25
Quant Type ISTD

Compound	$\overline{RRF}$ / Conc	RF50 / Conc	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
o-Xylene	0.56049	0.55810	0.55810	0.300	0.42759	50.0	Averaged	
Styrene	0.97767	0.97840	0.97840	0.300	-0.07461	50.0	Averaged	
Bromoform	0.26446	0.27011	0.27011	0.100	-2.13802	50.0	Averaged	
Isopropylbenzene	1.44071	1.35565	1.35565	0.100	5.90388	50.0	Averaged	
1,1,2,2-Tetrachloroethane	0.83983	0.80633	0.80633	0.300	3.98861	50.0	Averaged	
1,2,3-Trichloropropane	0.66643	0.68368	0.68368	0.100	-2.58739	50.0	Averaged	
n-Propylbenzene	3.02147	2.95031	2.95031	0.100	2.35497	50.0	Averaged	
Bromobenzene	0.78198	0.78168	0.78168	0.100	0.03907	50.0	Averaged	
1,3,5-Trimethylbenzene	2.26350	2.13899	2.13899	0.100	5.50043	50.0	Averaged	
2-Chlorotoluene	2.03821	1.94621	1.94621	0.100	4.51371	50.0	Averaged	
4-Chlorotoluene	2.23973	2.21112	2.21112	0.100	1.27733	50.0	Averaged	
tert-Butylbenzene	1.94110	1.76428	1.76428	0.100	9.10937	50.0	Averaged	
1,2,4-Trimethylbenzene	2.26985	2.15710	2.15710	0.100	4.96698	50.0	Averaged	
sec-Butylbenzene	2.58735	2.37552	2.37552	0.100	8.18730	50.0	Averaged	
p-Isopropyltoluene	2.36350	2.13660	2.13660	0.100	9.60011	50.0	Averaged	
1,3-Dichlorobenzene	1.36227	1.35445	1.35445	0.600	0.57368	50.0	Averaged	
1,4-Dichlorobenzene	1.49361	1.40902	1.40902	0.400	5.66388	50.0	Averaged	
n-Butylbenzene	1.97948	1.82865	1.82865	0.500	7.61983	50.0	Averaged	
1,2-Dichlorobenzene	1.33929	1.35448	1.35448	0.400	-1.13461	50.0	Averaged	
1,2-Dibromo-3-Chloropropane	50.0	49.46459	0.13654	0.040	1.07083	50.0	Linear	
1,2,4-Trichlorobenzene	0.91986	0.84087	0.84087	0.100	8.58642	50.0	Averaged	
Hexachlorobutadiene	50.0	39.64139	0.33171	0.100	20.71723	50.0	Linear	
Naphthalene	2.27672	2.16514	2.16514	0.200	4.90069	50.0	Averaged	
1,2,3-Trichlorobenzene	0.86027	0.77819	0.77819	0.010	9.54048	50.0	Averaged	
94 1,2-Dichloroethylene (total	0.48174	0.47280	0.47280	0.200	1.85673	50.0	Averaged	
95 Xylenes (total)	0.53613	0.51716	0.51716	0.100	3.53800	50.0	Averaged	
Cyclohexane	0.86668	0.79499	0.79499	0.100	8.27216	50.0	Averaged	
Freon TF	50.0	54.74114	0.34298	0.100	-9.48227	50.0	Quadratic	
Methylcyclohexane	1.05536	0.90148	0.90148	0.100	14.58078	50.0	Averaged	
Methyl Acetate	0.44499	0.59118	0.59118	0.100	-32.85257	50.0	Averaged	
Tert-butyl alcohol	0.06311	0.06795	0.06795	0.005	-7.68076	50.0	Averaged	
Isopropyl alcohol	0.03916	0.04681	0.04681	0.005	-19.53046	50.0	Averaged	

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Form 8

Internal Standard Area and RT Summary

Volatiles by EPA 8260

Workorder

HS23070658

Client

Bhate Environmental Associates, Inc.

Project

LHAAP Site 16

07/25/2023

ALS Environmental–Houston Laboratory

10450 Stancliff Road, Suite 210, Houston, TX 77099

Phone (281) 530-5656 Fax (281) 530-5887

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Form 8 - Internal Standard Area and RT Summary

Client Bhate Environmental Associates, Inc.

Project LHAAP Site 16

Workorder **HS23070658**

Volatiles by EPA 8260

VOA6_441608		Pentafluorobenzene				1,4-Difluorobenzene				Chlorobenzene				1,4-Dichlorobenze			
Sample ID	File ID	Area	#	RT	#	Area	#	RT	#	Area	#	RT	#	Area	#	RT	#
12-HOUR STD (CCV)	Y071703.D	600874	#	4.18	#	980784	#	4.97	#	907491	#	7.67	#	480551	#	9.66	#
HS23070658-01	Y071722.D	619734		4.18		940550		4.97		836111		7.67		429368		9.66	
HS23070658-01	Y071721.D	631050		4.18		964290		4.97		830860		7.67		422400		9.66	
HS23070658-02	Y071724.D	636141		4.18		969115		4.97		869043		7.67		419080		9.66	
HS23070658-02	Y071723.D	645873		4.18		984075		4.97		860946		7.67		435376		9.66	
HS23070658-03	Y071728.D	632929		4.18		961038		4.97		836846		7.67		399234		9.66	
HS23070658-03	Y071727.D	644102		4.18		978715		4.97		856043		7.67		443147		9.66	
HS23070658-04	Y071730.D	613672		4.18		956670		4.97		827741		7.67		412579		9.66	
HS23070658-04	Y071729.D	641529		4.18		980316		4.97		867147		7.67		444002		9.66	
HS23070658-07	Y071726.D	633385		4.18		970593		4.97		841911		7.67		425008		9.66	
HS23070658-07	Y071725.D	635889		4.18		968791		4.97		863019		7.67		425398		9.66	
VBLKW-230717	Y071707.D	645460		4.18		990257		4.97		874420		7.67		442776		9.66	
VLCSW-230717	Y071705.D	610210		4.18		1016770		4.97		935510		7.67		490550		9.66	
MS-ZZZZZZMS	Y071712.D	623956		4.18		974494		4.97		857955		7.67		430640		9.66	
ZZZZZZMSD	Y071713.D	629996		4.18		985284		4.97		849001		7.67		442985		9.66	

AREA UPPER LIMIT = +100% of 12H STD IS Area
AREA LOWER LIMIT = - 50% of 12H STD IS Area
RT - Retention IS - Internal StandardTime

RT UPPER LIMIT = + 0.50 of 12H STD IS RT
RT LOWER LIMIT = - 0.50 of 12H STD IS RT
CCV - Continuing Calibration Verification

- Area or RT Limit Flag
* - Value Outside Area or RT limits
H - Hour STD - Standard

Form 8 - Internal Standard Area and RT Summary

Client Bhate Environmental Associates, Inc.

Project LHAAP Site 16

Workorder **HS23070658**

Volatiles by EPA 8260

VOA6_441712		Pentafluorobenzene				1,4-Difluorobenzene				Chlorobenzene				1,4-Dichlorobenze			
Sample ID	File ID	Area	#	RT	#	Area	#	RT	#	Area	#	RT	#	Area	#	RT	#
12-HOUR STD (CCV)	Y071803.D	478168	#	4.18	#	746690	#	4.97	#	695833	#	7.67	#	377358	#	9.66	#
HS23070658-05	Y071813.D	501638		4.18		746383		4.97		655481		7.67		345230		9.66	
HS23070658-05	Y071812.D	472339		4.18		697810		4.97		623178		7.67		323225		9.66	
HS23070658-05MS	Y071818.D	469315		4.18		706937		4.97		624916		7.67		334831		9.66	
HS23070658-05MSD	Y071819.D	476645		4.18		707670		4.97		632004		7.67		346737		9.66	
HS23070658-06	Y071814.D	498268		4.18		727973		4.97		631880		7.67		338690		9.66	
HS23070658-08	Y071811.D	489397		4.18		734088		4.97		645681		7.67		327690		9.66	
HS23070658-09	Y071816.D	477836		4.18		725543		4.97		638170		7.67		336736		9.66	
HS23070658-10	Y071817.D	476266		4.18		716618		4.97		610620		7.67		301606		9.66	
HS23070658-11	Y071808.D	487044		4.18		723108		4.97		633678		7.67		311458		9.66	
VBLKW-230718	Y071807.D	503063		4.18		751331		4.97		673679		7.67		342067		9.66	
VLCSW-230718	Y071805.D	480099		4.18		772790		4.97		706090		7.67		379838		9.66	

AREA UPPER LIMIT = +100% of 12H STD IS Area
AREA LOWER LIMIT = - 50% of 12H STD IS Area
RT - Retention IS - Internal StandardTime

RT UPPER LIMIT = + 0.50 of 12H STD IS RT
RT LOWER LIMIT = - 0.50 of 12H STD IS RT
CCV - Continuing Calibration Verification

- Area or RT Limit Flag
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H - Hour STD - Standard

Form 8 - Internal Standard Area and RT Summary

Client Bhate Environmental Associates, Inc.

Project LHAAP Site 16

Workorder **HS23070658**

Volatiles by EPA 8260

VOA6_441778		Pentafluorobenzene				1,4-Difluorobenzene				Chlorobenzene				1,4-Dichlorobenze			
Sample ID	File ID	Area	#	RT	#	Area	#	RT	#	Area	#	RT	#	Area	#	RT	#
12-HOUR STD (CCV)	X071903.D	445562	#	4.18	#	699339	#	4.97	#	641298	#	7.67	#	352641	#	9.66	#
HS23070658-09	X071912.D	456202		4.18		681559		4.97		607992		7.67		305633		9.66	
HS23070658-10	X071913.D	464746		4.18		678358		4.97		609955		7.67		314193		9.66	
VBLKW-230719	X071907.D	470929		4.18		693682		4.97		609883		7.67		320923		9.66	
VLCSW-230719	X071909.D	459752		4.18		727395		4.97		666124		7.67		366877		9.66	
MS-ZZZZZZMS	X071910.D	477528		4.18		708560		4.97		628247		7.67		343067		9.66	
ZZZZZZMSD	X071911.D	470925		4.18		690793		4.97		624529		7.67		325753		9.66	

AREA UPPER LIMIT = +100% of 12H STD IS Area
AREA LOWER LIMIT = - 50% of 12H STD IS Area
RT - Retention IS - Internal StandardTime

RT UPPER LIMIT = + 0.50 of 12H STD IS RT
RT LOWER LIMIT = - 0.50 of 12H STD IS RT
CCV - Continuing Calibration Verification

- Area or RT Limit Flag
* - Value Outside Area or RT limits
H - Hour STD - Standard

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Analysis Run Log

Volatiles by EPA 8260

Workorder

HS23070658

Client

Bhate Environmental Associates, Inc.

Project

LHAAP Site 16

07/25/2023

ALS Environmental–Houston Laboratory

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Form 13 - Analysis Run Log

Client Bhate Environmental Associates, Inc.

Project LHAAP Site 16

Workorder
HS23070658

RunID
VOA6-441456

Volatiles by EPA 8260

Run ID VOA6_441456 **Start Date** 07/14/23 **EndDate** 07/14/23

Inj. Time	Client Sample ID	Type	Lab Sample ID	File ID	Analysis Date	DF
11:20	BFB	TUNE	BFB	X071401.D	07/14/23	1
12:01	VSTD000.25	ICAL1	VSTD000.25	X071402.D	07/14/23	1
12:22	VSTD000.5	ICAL2	VSTD000.5	X071403.D	07/14/23	1
13:02	VSTD001	ICAL3	VSTD001	X071404.D	07/14/23	1
13:23	VSTD002	ICAL4	VSTD002	X071405.D	07/14/23	1
13:43	VSTD005	ICAL5	VSTD005	X071406.D	07/14/23	1
14:04	VSTD020	ICAL6	VSTD020	X071407.D	07/14/23	1
14:24	VSTD050	ICAL7	VSTD050	X071408.D	07/14/23	1
14:44	VSTD100	ICAL8	VSTD100	X071409.D	07/14/23	1
15:05	VSTD150	ICAL9	VSTD150	X071410.D	07/14/23	1
15:25	VSTD200	ICAL	VSTD200	X071411.D	07/14/23	1
16:06	CCV	ICV	CCV	X071413.D	07/14/23	1

Form 13 - Analysis Run Log

Client Bhate Environmental Associates, Inc.

Project LHAAP Site 16

Workorder
HS23070658

RunID
VOA6-441608

Volatiles by EPA 8260

Run ID VOA6_441608 **Start Date** 07/17/23 **EndDate** 07/18/23

Inj. Time	Client Sample ID	Type	Lab Sample ID	File ID	Analysis Date	DF
21:49	BFB	TUNE	BFB	Y071701.D	07/17/23	1
22:30	CCV	CCV	CCV	Y071703.D	07/17/23	1
22:50	CCB	CCB	CCB	Y071704.D	07/17/23	1
23:10	VLCSW-230717	LCS	VLCSW-230717	Y071705.D	07/17/23	1
23:51	VBLKW-230717	MBLK	VBLKW-230717	Y071707.D	07/17/23	1
00:12	HS23070546-09	SAMP	ZZZZZZZZZZ	Y071708.D	07/18/23	1
00:32	HS23070546-03	SAMP	ZZZZZZZZZZ	Y071709.D	07/18/23	100
00:53	HS23070546-03	SAMP	ZZZZZZZZZZ	Y071710.D	07/18/23	1000
01:13	HS23070451-03	SAMP	ZZZZZZZZZZ	Y071711.D	07/18/23	50
01:34	HS23070546-03MS	MS	ZZZZZZMS	Y071712.D	07/18/23	1000
01:54	HS23070546-03MSD	MSD	ZZZZZZMSD	Y071713.D	07/18/23	1000
02:35	HS23070451-03	SAMP	ZZZZZZZZZZ	Y071715.D	07/18/23	1000
02:56	HS23070546-04	SAMP	ZZZZZZZZZZ	Y071716.D	07/18/23	1
03:16	HS23070546-05	SAMP	ZZZZZZZZZZ	Y071717.D	07/18/23	1
03:37	HS23070546-06	SAMP	ZZZZZZZZZZ	Y071718.D	07/18/23	1
03:57	HS23070546-07	SAMP	ZZZZZZZZZZ	Y071719.D	07/18/23	1
04:18	HS23070546-08	SAMP	ZZZZZZZZZZ	Y071720.D	07/18/23	1
04:39	HS23070658-01	SAMP	16WW55-230712	Y071721.D	07/18/23	5
04:59	HS23070658-01	SAMP	16WW55-230712	Y071722.D	07/18/23	50
05:20	HS23070658-02	SAMP	16WW41-230712	Y071723.D	07/18/23	10
05:40	HS23070658-02	SAMP	16WW41-230712	Y071724.D	07/18/23	100
06:01	HS23070658-07	SAMP	16WW36-230712	Y071725.D	07/18/23	50
06:21	HS23070658-07	SAMP	16WW36-230712	Y071726.D	07/18/23	500
06:42	HS23070658-03	SAMP	16WW48-230712	Y071727.D	07/18/23	100
07:02	HS23070658-03	SAMP	16WW48-230712	Y071728.D	07/18/23	500
07:23	HS23070658-04	SAMP	16WW48-230712-FD	Y071729.D	07/18/23	100
07:43	HS23070658-04	SAMP	16WW48-230712-FD	Y071730.D	07/18/23	500
08:04	CCV-END	CCV_END	CCV-END	Y071731.D	07/18/23	1

Form 13 - Analysis Run Log

Client Bhate Environmental Associates, Inc.

Project LHAAP Site 16

Workorder
HS23070658

RunID
VOA6-441712

Volatiles by EPA 8260

Run ID VOA6_441712 **Start Date** 07/18/23 **EndDate** 07/19/23

Inj. Time	Client Sample ID	Type	Lab Sample ID	File ID	Analysis Date	DF
21:14	BFB	TUNE	BFB	Y071801.D	07/18/23	1
21:55	CCV	CCV	CCV	Y071803.D	07/18/23	1
22:15	CCB	CCB	CCB	Y071804.D	07/18/23	1
22:35	VLCSW-230718	LCS	VLCSW-230718	Y071805.D	07/18/23	1
23:16	VBLKW-230718	MBLK	VBLKW-230718	Y071807.D	07/18/23	1
23:37	HS23070658-11	SAMP	Trip blank-230712	Y071808.D	07/18/23	1
23:57	HS23070539-01	SAMP	ZZZZZZZZZZ	Y071809.D	07/18/23	50
00:18	HS23070627-01	SAMP	ZZZZZZZZZZ	Y071810.D	07/19/23	50
00:38	HS23070658-08	SAMP	16WW25-230712	Y071811.D	07/19/23	1
00:59	HS23070658-05	SAMP	16EW03-230712	Y071812.D	07/19/23	1
01:19	HS23070658-05	SAMP	16EW03-230712	Y071813.D	07/19/23	20
01:40	HS23070658-06	SAMP	16WW35-230712	Y071814.D	07/19/23	100
02:01	HS23070791-01	SAMP	ZZZZZZZZZZ	Y071815.D	07/19/23	25
02:21	HS23070658-09	SAMP	16WW26-230712	Y071816.D	07/19/23	1
02:41	HS23070658-10	SAMP	16WW66-230712-FD	Y071817.D	07/19/23	1
03:02	HS23070658-05MS	MS	HS23070658-05MS	Y071818.D	07/19/23	20
03:22	HS23070658-05MSD	MSD	HS23070658-05MSD	Y071819.D	07/19/23	20
03:43	CCV-END	CCV_END	CCV-END	Y071820.D	07/19/23	1

Form 13 - Analysis Run Log

Client Bhate Environmental Associates, Inc.

Project LHAAP Site 16

Workorder
HS23070658

RunID
VOA6-441778

Volatiles by EPA 8260

Run ID VOA6_441778 **Start Date** 07/19/23 **EndDate** 07/19/23

Inj. Time	Client Sample ID	Type	Lab Sample ID	File ID	Analysis Date	DF
10:08	BFB	TUNE	BFB	X071901.D	07/19/23	1
10:49	CCV	CCV	CCV	X071903.D	07/19/23	1
11:09	CCB	CCB	CCB	X071904.D	07/19/23	1
12:11	VBLKW-230719	MBLK	VBLKW-230719	X071907.D	07/19/23	1
12:31	HS23070791-03	SAMP	ZZZZZZZZZZ	X071908.D	07/19/23	1
12:52	VLCSW-230719	LCS	VLCSW-230719	X071909.D	07/19/23	1
13:12	HS23070791-03MS	MS	ZZZZZZMS	X071910.D	07/19/23	1
13:33	HS23070791-03MSD	MSD	ZZZZZZMSD	X071911.D	07/19/23	1
13:53	HS23070658-09	SAMP	16WW26-230712	X071912.D	07/19/23	25
14:14	HS23070658-10	SAMP	16WW66-230712-FD	X071913.D	07/19/23	25
14:34	CCV-END	CCV_END	CCV-END	X071914.D	07/19/23	1

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Raw Data VOA6 441456

Volatiles by EPA 8260

Workorder

HS23070658

Client

Bhate Environmental Associates, Inc.

Project

LHAAP Site 16

07/25/2023

ALS Environmental–Houston Laboratory

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Data File: \\NAHSTWS005\Target\chem\voa6.i\X230714.b\X071401.D Page 1
Report Date: 14-Jul-2023 12:16

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230714.b\X071401.D
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 14-JUL-2023 11:20
Operator : PC Inst ID: voa6.i
Smp Info : BFB;BFB;3;;BFB
Misc Info : V6;WATER;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\voa6.i\X230714.b\bfb.m
Meth Date : 14-Mar-2023 15:45 Linh.Pham Quant Type: ISTD
Cal Date : Cal File:
Als bottle: 1 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: NAHSTW7051

Concentration Formula: Amt * DF * Uf * Vf * Vi * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vf	1.000	Volumetric correction factor
Vi	2.000	Injection Volume
Cpnd Variable		Local Compound Variable

					CONCENTRATIONS ON-COL (ug/L)	CONCENTRATIONS FINAL (ug/l)	TARGET RANGE	RATIO
1 bfb							CAS #: 460-00-4	
8.687	8.889	(0.000)	95	75584			0.00- 100.00	100.00
8.687	8.889	(0.000)	50	19544			15.00- 40.00	25.86
8.687	8.889	(0.000)	75	39336			30.00- 60.00	52.04
8.687	8.889	(0.000)	96	4254			5.00- 9.00	5.63
8.687	8.889	(0.000)	173	575			0.00- 2.00	0.93
8.687	8.889	(0.000)	174	62120			50.00- 0.00	82.19
8.687	8.889	(0.000)	175	4074			5.00- 9.00	6.56
8.687	8.889	(0.000)	176	59920			95.00- 101.00	96.46
8.687	8.889	(0.000)	177	3382			5.00- 9.00	5.64

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	25.86
75	30.00 - 60.00% of mass 95	52.04
96	5.00 - 9.00% of mass 95	5.63
173	Less than 2.00% of mass 174	0.76 (0.93)
174	Greater than 50.00% of mass 95	82.19
175	5.00 - 9.00% of mass 174	5.39 (6.56)
176	95.00 - 101.00% of mass 174	79.28 (96.46)
177	5.00 - 9.00% of mass 176	4.47 (5.64)

Data File: X071401.D
Spectrum: Scan 2159 (8.68)
Location of Maximum: 95.10
Number of points: 86

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1001	59.90	684	88.00	3732	134.80	342
37.00	4000	61.00	4199	91.20	205	137.00	155
38.10	3490	62.10	4176	92.00	2613	140.00	79
39.20	1334	63.00	2135	93.00	3158	140.80	1031
39.90	3559	64.10	319	94.00	8834	142.20	140
40.70	64	67.00	413	95.10	75584	142.90	753
42.00	125	68.10	6971	96.00	4254	145.70	149
43.00	148	69.10	7538	97.30	71	147.80	317
44.10	2032	70.10	1203	104.00	361	148.70	68
45.10	1709	72.20	463	105.00	140	155.00	115
46.10	218	73.20	3048	105.90	261	156.90	305
47.00	2031	74.00	11989	107.00	78	158.60	77
47.80	299	75.00	39336	114.80	122	167.70	60
48.30	315	76.10	3185	115.70	131	169.70	59
49.00	4410	76.90	966	116.70	450	172.20	197
50.00	19544	78.10	384	118.00	134	173.00	575
51.00	6014	78.90	2349	118.90	176	174.00	62120
52.20	624	79.90	148	127.80	434	175.00	4074
55.10	243	80.80	1499	128.50	116	176.00	59920
55.90	1173	82.00	347	129.50	194	177.00	3382
57.00	2234	85.90	194	129.90	123		
57.80	62	87.00	3285	131.00	91		

Data File: \\nahstws005\target\chem\voa6.i\x230714.b\x071401.d Page 1

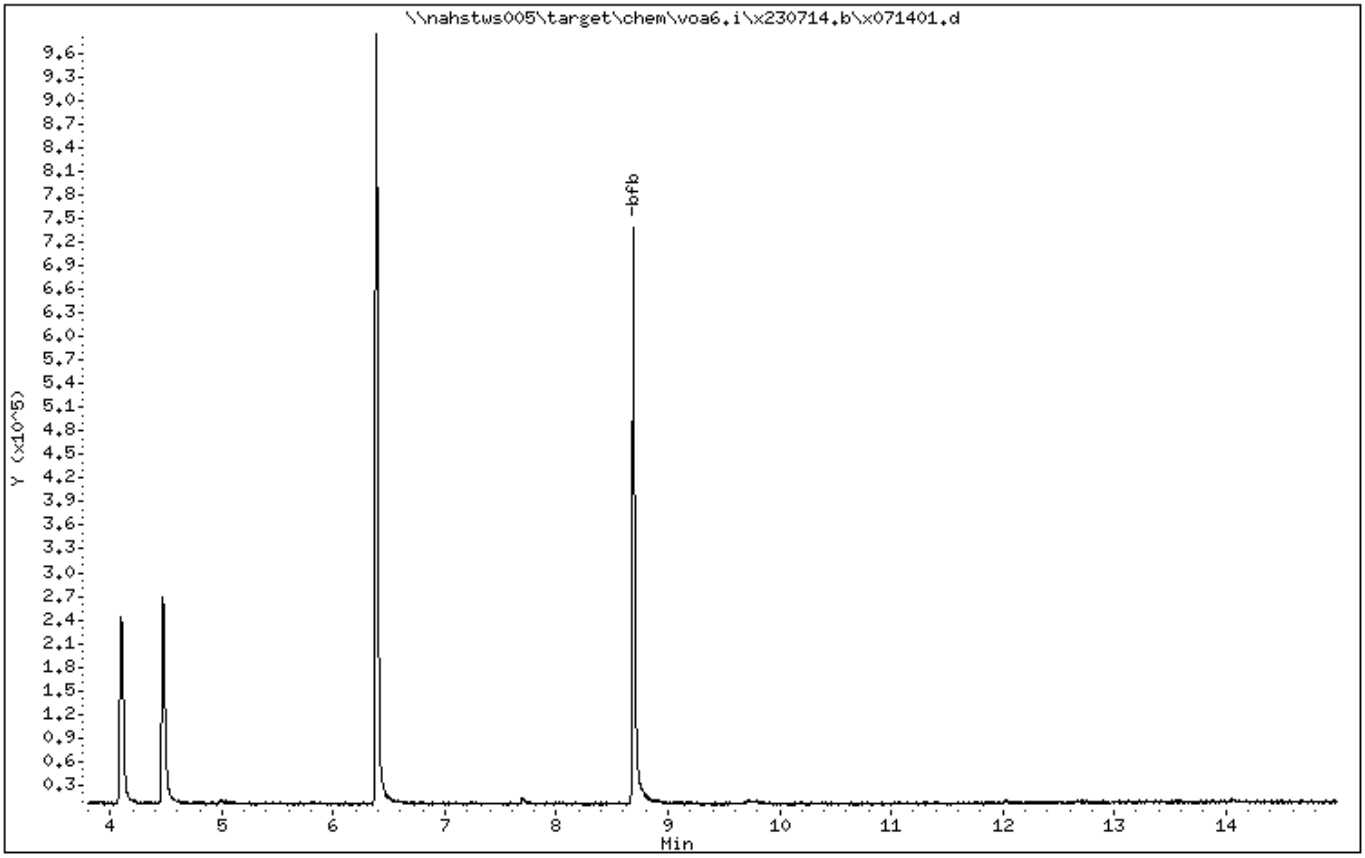
Date : 14-JUL-2023 11:20

Client ID: BFB Instrument: voa6.i

Sample Info: BFB;BFB;3;;BFB

Volume Injected (uL): 2.0 Operator: PC

Column phase: DB624 Column diameter: 0.25



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InstruID : voa6.i
LabSampID : BFB

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230714.b\X071402.D Page 1
Report Date: 20-Jul-2023 15:04

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230714.b\X071402.D
Lab Smp Id: VSTD000.25 Client Smp ID: VSTD000.25
Inj Date : 14-JUL-2023 12:01
Operator : PC Inst ID: voa6.i
Smp Info : VSTD000.25;VSTD000.25;1;1;
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230714.b\8260W.m
Meth Date : 20-Jul-2023 15:04 voa6.i Quant Type: ISTD
Cal Date : 14-JUL-2023 14:24 Cal File: X071408.D
Als bottle: 3 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

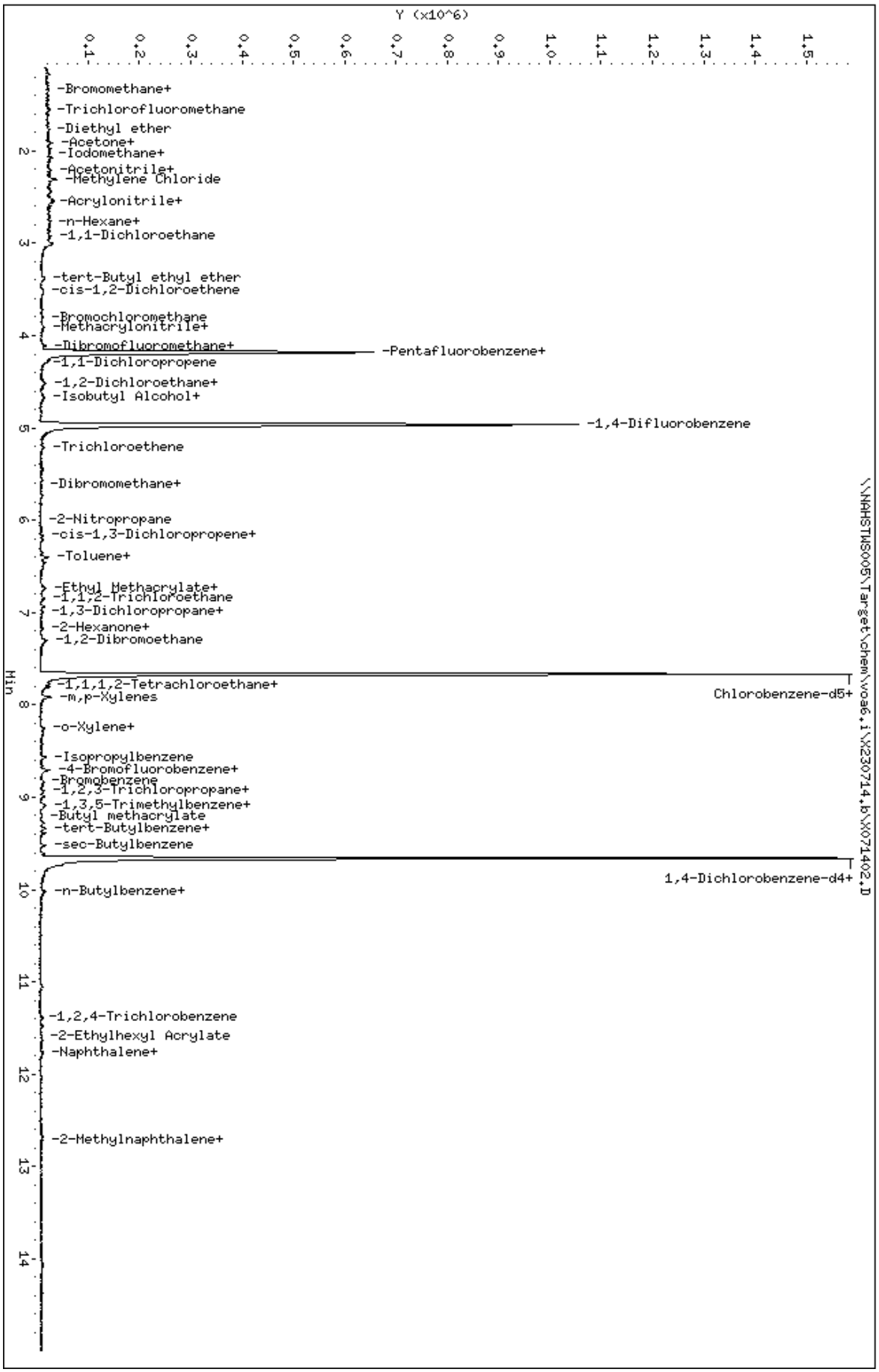
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
*	1 Pentafluorobenzene	168	4.177	4.177	(1.000)	513772	50.0000	
	2 Dichlorodifluoromethane	85	0.972	0.972	(0.233)	1327	0.25000	1.34
	6 Bromomethane	94	1.344	1.344	(0.322)	1426	0.25000	0.51
	7 Chloroethane	64	1.404	1.404	(0.336)	2235	0.25000	0.58
	13 Acetonitrile	39	2.206	2.206	(0.528)	1743	2.50000	2.41(a)
	15 Iodomethane	142	2.026	2.026	(0.485)	1361	0.50000	4.07(T)
	34 Carbon Tetrachloride	117	4.177	4.177	(0.841)	45277	0.25000	6.79
*	36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	810653	50.0000	
	43 2-Nitropropane	43	5.992	5.992	(1.434)	882	0.25000	0.43(a)
	44 Dibromomethane	93	5.557	5.557	(1.119)	982	0.25000	0.27(a)
	46 cis-1,3-Dichloropropene	75	6.164	6.164	(1.242)	2135	0.25000	0.25(a)
*	47 Chlorobenzene-d5	117	7.667	7.667	(1.000)	750028	50.0000	
$	48 Toluene-d8	98	6.400	6.400	(0.835)	9790	0.25000	0.50(aM)
	49 Ethyl Methacrylate	69	6.738	6.738	(1.357)	1122	0.25000	0.21(a)
	50 Toluene	91	6.457	6.457	(0.842)	5493	0.25000	0.27(a)
	53 1,1,2-Trichloroethane	83	6.847	6.847	(0.893)	800	0.25000	0.18(a)
	54 1,3-Dichloropropane	76	6.993	6.993	(0.912)	2465	0.25000	0.28(a)
	55 Dibromochloromethane	129	7.180	7.180	(0.936)	1520	0.25000	0.24(a)
	56 Tetrachloroethene	164	6.940	6.940	(0.905)	1306	0.25000	0.31(a)
	57 1,2-Dibromoethane	107	7.285	7.285	(0.950)	1533	0.25000	0.31(a)

58 1-Chlorohexane	55	7.667	7.667 (1.544)	8221	0.25000	1.26(a)
59 Chlorobenzene	112	7.694	7.694 (1.003)	4381	0.25000	0.31(a)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	60 1,1,1,2-Tetrachloroethane	131	7.780	7.780	(1.015)	1432	0.25000	0.25(a)
	61 Ethylbenzene	106	7.810	7.810	(1.019)	1916	0.25000	0.27(a)
	62 m,p-Xylenes	106	7.915	7.915	(1.032)	4768	0.50000	0.53(a)
	63 o-Xylene	106	8.252	8.252	(1.076)	2524	0.25000	0.30(a)
	64 Styrene	104	8.316	8.316	(1.085)	2747	0.25000	0.18(a)
	67 Isopropylbenzene	105	8.567	8.567	(1.117)	5899	0.25000	0.27(a)
$	69 4-Bromofluorobenzene	95	8.710	8.710	(1.136)	5758	0.25000	0.34(a)
*	70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	386421	50.0000	
	71 1,2,3-Trichloropropane	75	8.871	8.871	(0.918)	2014	0.25000	0.39(a)
	73 n-Propylbenzene	91	8.927	8.927	(0.924)	5784	0.25000	0.24(a)
	74 Bromobenzene	156	8.818	8.818	(0.913)	1741	0.25000	0.28(a)
	75 1,3,5-Trimethylbenzene	105	9.081	9.081	(0.940)	5918	0.25000	0.33(a)
	76 2-Chlorotoluene	91	8.991	8.991	(0.931)	3339	0.25000	0.21(a)
	77 4-Chlorotoluene	91	9.114	9.114	(0.943)	4046	0.25000	0.23(a)
	78 tert-Butylbenzene	119	9.339	9.339	(0.967)	4275	0.25000	0.28(a)
	79 1,2,4-Trimethylbenzene	105	9.392	9.392	(0.972)	5781	0.25000	0.32(a)
	81 sec-Butylbenzene	105	9.519	9.519	(0.985)	5830	0.25000	0.29(a)
	82 p-Isopropyltoluene	119	9.654	9.654	(0.999)	5470	0.25000	0.29(a)
	83 1,3-Dichlorobenzene	146	9.624	9.624	(0.996)	3790	0.25000	0.35(a)
	84 1,4-Dichlorobenzene	146	9.684	9.684	(1.002)	4376	0.25000	0.37(a)
	88 1,2-Dichlorobenzene	146	10.018	10.018	(1.037)	2842	0.25000	0.27(a)
	93 1,2,3-Trichlorobenzene	180	11.780	11.780	(1.219)	1828	0.25000	0.27(a)
	141 Cyclohexane	56	4.174	4.174	(0.999)	9736	0.25000	1.09(a)
	135 1,4-Dioxane	88	5.621	5.621	(1.345)	272	5.00000	4.45(aM)
	136 n-Hexane	57	2.772	2.772	(0.664)	1827	0.25000	(a)
	139 Diethyl ether	59	1.760	1.760	(0.421)	1325	0.25000	0.27(a)
	149 Isopropyl alcohol	45	2.097	2.097	(0.502)	2990	5.00000	7.43(T)
	166 1,2,3-Trimethylbenzene	105	9.737	9.737	(1.008)	3283	0.25000	0.18(a)
	174 tert-Amyl methyl ether	73	4.665	4.665	(1.117)	5098	0.25000	0.30(Ta)
	175 tert-Butyl ethyl ether	59	3.379	3.379	(0.809)	5067	0.25000	0.23(a)
	176 tert-Amyl alcohol	59	4.646	4.646	(1.112)	1684	5.00000	3.00(a)
	151 4-Methyl-2-pentanol	45	6.734	6.734	(1.356)	10871	5.00000	6.25
	180 1-Methylnaphthalene	142	12.672	12.672	(1.312)	2289	0.25000	(a)
	140 1,3-Butadiene	54	1.171	1.171	(0.280)	1955	0.25000	0.29(a)
M	94 1,2-Dichloroethylene (total)	96				3006	0.50000	(a)
	134 Cyclohexanone	55	8.653	8.653	(0.896)	2370	5.00000	6.88(a)
	150 Allyl alcohol	57	2.772	2.772	(0.664)	1827	5.00000	(a)
	200 Dimethyl Disulfide	94	6.202	6.202	(0.809)	2328	0.25000	0.23(a)

QC Flag Legend

T - Target compound detected outside RT window.
a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.



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Client ID: VSTD000.25
Sample Info: VSTD000.25;VSTD000.25;1;1;
Purge Volume: 5.0
Column phase: DB624

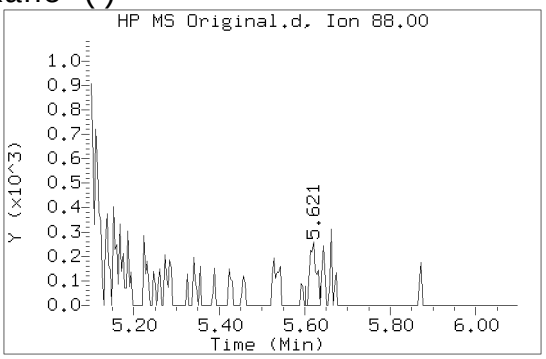
Instrument: voa6.i
Operator: PC
Column diameter: 0.18

Data File : \\NAHSTWS005\Target\chem\voa6.i\X230714.b\X071402.D
Inj Date : 14-JUL-2023 12:01
InstruID : voa6.i
LabSampID : VSTD000.25

1,4-Dioxane ()

Reason Code:

BEFORE
MASS
88
AREA
272
HEIGHT
259
20-Jul-2023
15:04
linh
pham



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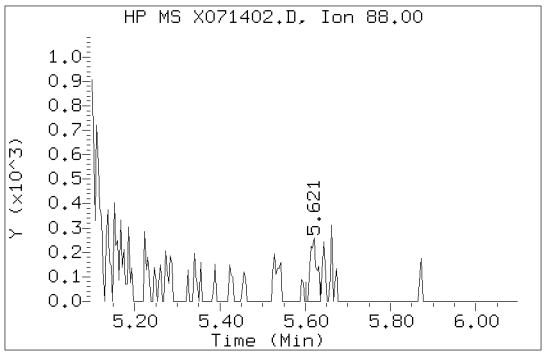

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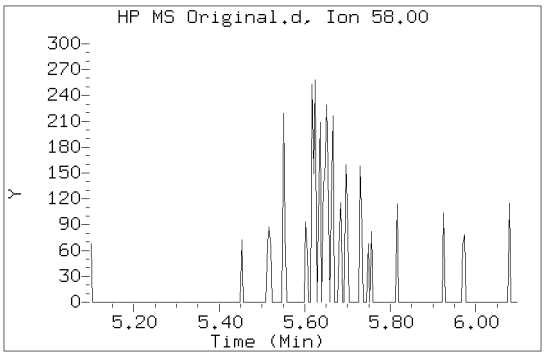

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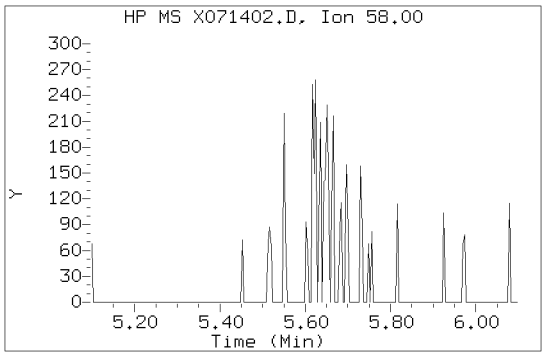

Toluene-d8 (2037-26-5)

Reason Code:

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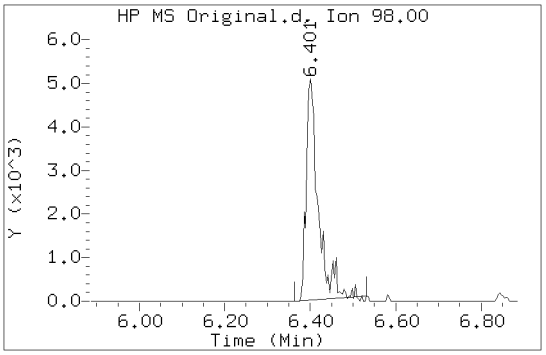

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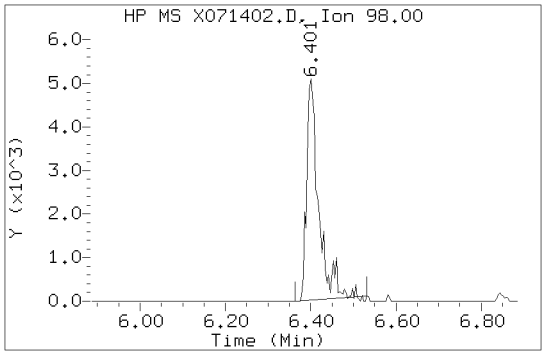

BEFORE
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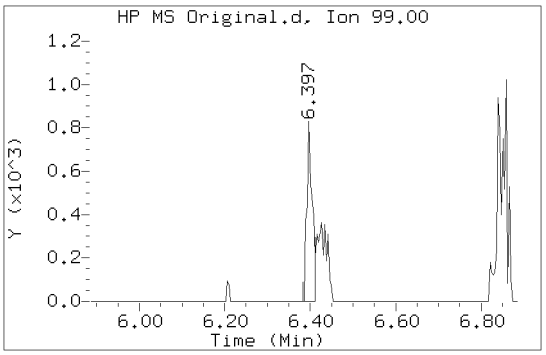

AFTER
MASS
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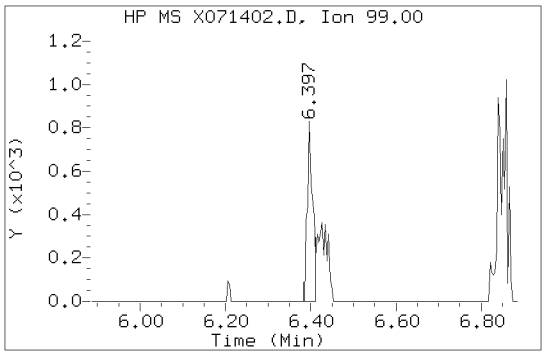

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InstruID : voa6.i
LabSampID : VSTD000.25

Toluene-d8 (2037-26-5)

Reason Code:

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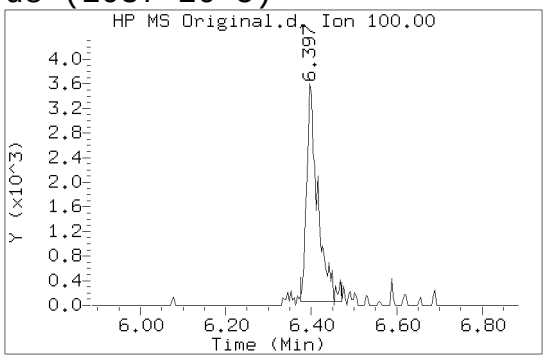

AFTER

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20-Jul-2023
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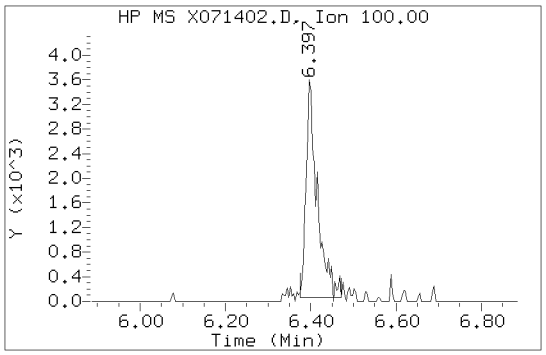

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230714.b\X071403.D Page 1
Report Date: 20-Jul-2023 15:04

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230714.b\X071403.D
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Inj Date : 14-JUL-2023 12:22
Operator : PC Inst ID: voa6.i
Smp Info : VSTD000.5;VSTD000.5;1;2;
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230714.b\8260W.m
Meth Date : 20-Jul-2023 15:04 voa6.i Quant Type: ISTD
Cal Date : 14-JUL-2023 12:01 Cal File: X071402.D
Als bottle: 3 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
*	1 Pentafluorobenzene	168	4.181	4.181	(1.000)	503444	50.0000	
	2 Dichlorodifluoromethane	85	0.976	0.976	(0.234)	1663	0.50000	1.41
	3 Chloromethane	50	1.081	1.081	(0.259)	4229	0.50000	0.55
	4 Propionitrile	54	3.701	3.701	(0.885)	5231	5.00000	5.24(aM)
	5 Vinyl Chloride	62	1.145	1.145	(0.274)	3484	0.50000	0.53
	6 Bromomethane	94	1.340	1.340	(0.321)	1399	0.50000	0.51(M)
	7 Chloroethane	64	1.407	1.407	(0.337)	2168	0.50000	0.58(M)
	9 Acrolein	56	1.868	1.868	(0.447)	268	1.00000	2.51(aM)
	12 Isobutyl Alcohol	43	4.695	4.695	(1.123)	9983	10.0000	10.46(a)
	13 Acetonitrile	39	2.213	2.213	(0.529)	3606	5.00000	5.10(aM)
	14 Allyl Chloride	41	2.202	2.202	(0.527)	9843	0.50000	0.59(a)
	15 Iodomethane	142	2.026	2.026	(0.485)	2897	1.00000	4.39(TM)
	16 Acrylonitrile	53	2.539	2.539	(0.607)	3055	1.00000	1.24(M)
	18 Methyl tert-butyl ether	73	2.539	2.539	(0.607)	7187	0.50000	0.52(M)
	19 Carbon Disulfide	76	2.078	2.078	(0.497)	12054	1.00000	1.03
	20 trans-1,2-Dichloroethene	96	2.543	2.543	(0.608)	2557	0.50000	0.59
	21 Vinyl Acetate	43	3.019	3.019	(0.722)	18224	1.00000	1.03(M)
	22 1,1-Dichloroethane	63	2.929	2.929	(0.701)	5250	0.50000	0.56(TM)
	23 Chloroprene	53	1.786	1.786	(0.427)	1292	0.50000	0.57(aM)
	24 2-Butanone	43	3.675	3.675	(0.879)	2827	1.00000	1.05(M)

25 Methacrylonitrile	41	3.893	3.893 (0.931)	3622	0.50000	0.55(aM)
26 2,2-Dichloropropane	77	3.506	3.506 (0.839)	3703	0.50000	0.71(M)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	27 cis-1,2-Dichloroethene	96	3.540	3.540	(0.847)	2924	0.50000	0.53(M)
	28 Chloroform	83	3.911	3.911	(0.935)	5643	0.50000	0.58(M)
	29 Bromochloromethane	128	3.810	3.810	(0.911)	1717	0.50000	0.56(M)
	31 1,1,1-Trichloroethane	97	4.080	4.080	(0.976)	3867	0.50000	0.52
	32 1,1-Dichloropropene	75	4.286	4.286	(0.863)	3744	0.50000	0.57(M)
	33 1,2-Dichloroethane	62	4.564	4.564	(0.919)	5246	0.50000	0.59(M)
	34 Carbon Tetrachloride	117	4.256	4.256	(0.857)	3613	0.50000	0.54(M)
*	36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	802287	50.0000	
	37 Benzene	78	4.526	4.526	(0.912)	10488	0.50000	0.54
	38 Trichloroethene	130	5.216	5.216	(1.051)	2909	0.50000	0.53(a)
	39 Bromodichloromethane	83	5.737	5.737	(1.156)	4539	0.50000	0.61(aM)
	40 Methyl Methacrylate	41	5.636	5.636	(1.348)	3261	0.50000	0.53(aM)
	41 2-Chloroethylvinyl ether	63	6.082	6.082	(1.225)	2206	1.00000	0.98(aM)
	42 1,2-Dichloropropane	63	5.448	5.448	(1.097)	3473	0.50000	0.56(aM)
	43 2-Nitropropane	43	5.984	5.984	(1.431)	1174	0.50000	0.58(aM)
	44 Dibromomethane	93	5.568	5.568	(1.122)	1988	0.50000	0.56(a)
	45 4-Methyl-2-Pentanone	43	6.348	6.348	(0.828)	8626	1.00000	1.19(a)
	46 cis-1,3-Dichloropropene	75	6.168	6.168	(1.242)	4937	0.50000	0.58(a)
*	47 Chlorobenzene-d5	117	7.667	7.667	(1.000)	735322	50.0000	
$	48 Toluene-d8	98	6.400	6.400	(0.835)	10379	0.50000	0.54(aM)
	49 Ethyl Methacrylate	69	6.727	6.727	(1.355)	2780	0.50000	0.52(aM)
	50 Toluene	91	6.453	6.453	(0.842)	10040	0.50000	0.50(a)
	51 trans-1,3-Dichloropropene	75	6.700	6.700	(1.350)	3980	0.50000	0.55(a)
	52 2-Hexanone	43	7.113	7.113	(0.928)	4470	1.00000	0.94(aM)
	53 1,1,2-Trichloroethane	83	6.843	6.843	(0.892)	2223	0.50000	0.52(aM)
	54 1,3-Dichloropropane	76	6.993	6.993	(0.912)	5041	0.50000	0.58(a)
	55 Dibromochloromethane	129	7.184	7.184	(0.937)	3132	0.50000	0.51(aM)
	56 Tetrachloroethene	164	6.933	6.933	(0.904)	1790	0.50000	0.43(a)
	57 1,2-Dibromoethane	107	7.270	7.270	(0.948)	2613	0.50000	0.54(a)
	58 1-Chlorohexane	55	7.701	7.701	(1.551)	3459	0.50000	0.53(aM)
	59 Chlorobenzene	112	7.694	7.694	(1.003)	7907	0.50000	0.57(aM)
	60 1,1,1,2-Tetrachloroethane	131	7.776	7.776	(1.014)	3008	0.50000	0.55(aM)
	61 Ethylbenzene	106	7.802	7.802	(1.018)	3909	0.50000	0.56(aM)
	62 m,p-Xylenes	106	7.907	7.907	(1.031)	8550	1.00000	0.98(a)
	63 o-Xylene	106	8.256	8.256	(1.077)	4414	0.50000	0.53(aM)
	64 Styrene	104	8.290	8.290	(1.081)	8133	0.50000	0.56(aM)
	66 Bromoform	173	8.417	8.417	(1.098)	1973	0.50000	0.50(Ta)
	67 Isopropylbenzene	105	8.563	8.563	(1.117)	10697	0.50000	0.50(a)
	68 1,1,2,2-Tetrachloroethane	83	8.848	8.848	(0.916)	3654	0.50000	0.56(aM)
$	69 4-Bromofluorobenzene	95	8.702	8.702	(1.135)	7819	0.50000	0.64(aM)
*	70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	386891	50.0000	
	71 1,2,3-Trichloropropane	75	8.871	8.871	(0.918)	2737	0.50000	0.53(aM)
	72 trans-1,4-Dichloro-2-butene	53	8.927	8.927	(1.164)	1124	0.50000	0.50(aM)
	73 n-Propylbenzene	91	8.927	8.927	(0.924)	11407	0.50000	0.48(a)
	74 Bromobenzene	156	8.818	8.818	(0.913)	3201	0.50000	0.52(aM)
	75 1,3,5-Trimethylbenzene	105	9.077	9.077	(0.939)	9580	0.50000	0.54(a)
	76 2-Chlorotoluene	91	8.983	8.983	(0.930)	8487	0.50000	0.53(aM)
	77 4-Chlorotoluene	91	9.088	9.088	(0.941)	8710	0.50000	0.50(a)
	78 tert-Butylbenzene	119	9.339	9.339	(0.967)	8109	0.50000	0.53(a)
	79 1,2,4-Trimethylbenzene	105	9.392	9.392	(0.972)	10172	0.50000	0.57(aM)
	81 sec-Butylbenzene	105	9.523	9.523	(0.986)	9247	0.50000	0.46(aM)
	82 p-Isopropyltoluene	119	9.651	9.651	(0.999)	9771	0.50000	0.53(aM)

83 1,3-Dichlorobenzene	146	9.609	9.609 (0.995)	5980	0.50000	0.56(a)
84 1,4-Dichlorobenzene	146	9.681	9.681 (1.002)	6395	0.50000	0.55(a)

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230714.b\X071403.D Page 3
Report Date: 20-Jul-2023 15:04

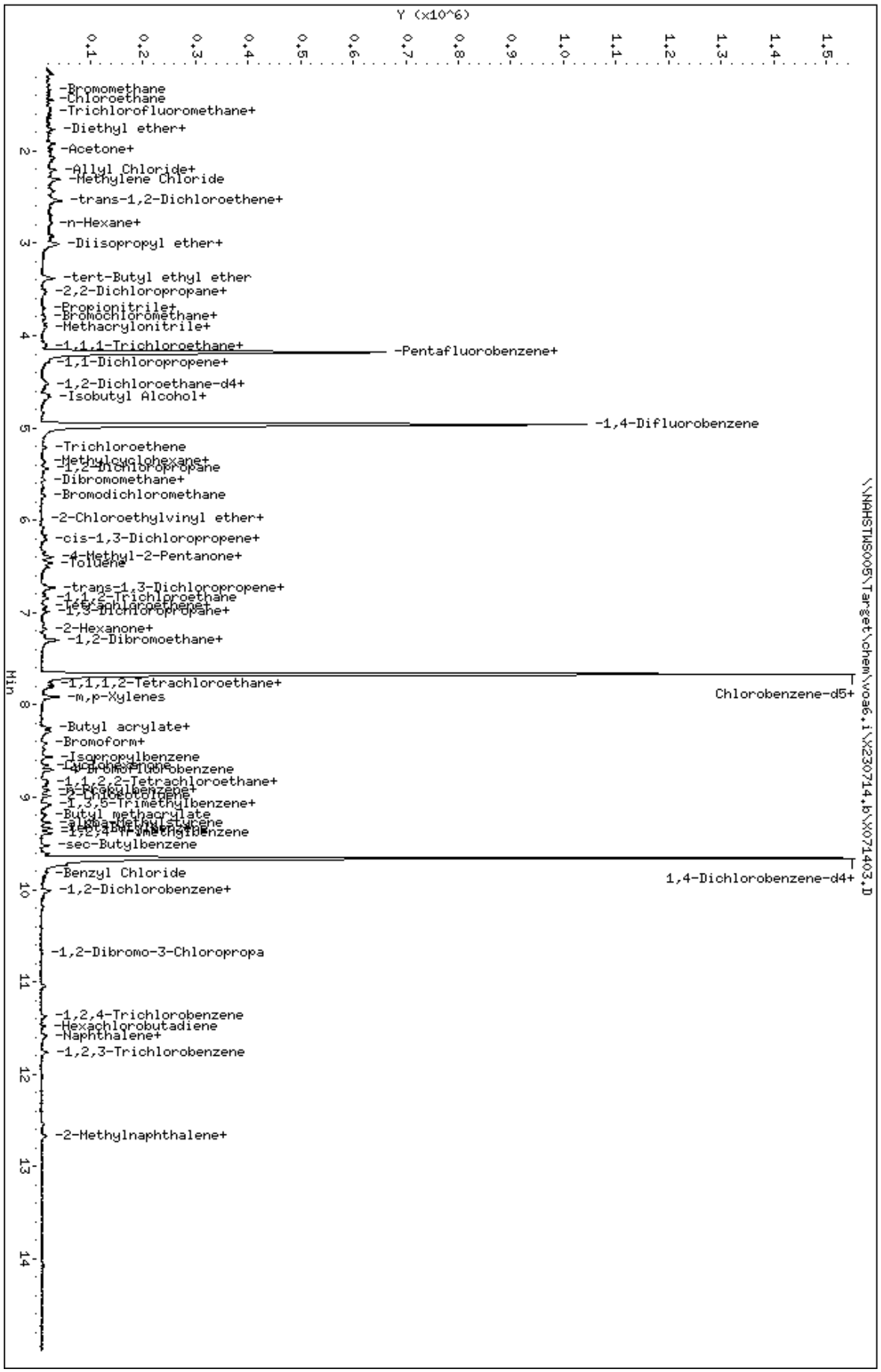
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
86	Benzyl Chloride	91	9.827	9.827	(1.282)	6245	0.50000	2.82(aM)
87	n-Butylbenzene	91	10.014	10.014	(1.036)	7141	0.50000	0.46(aM)
88	1,2-Dichlorobenzene	146	10.010	10.010	(1.036)	5252	0.50000	0.50(a)
89	1,2-Dibromo-3-Chloropropane	155	10.681	10.681	(1.106)	675	0.50000	1.70(aM)
90	1,2,4-Trichlorobenzene	180	11.371	11.371	(1.177)	4099	0.50000	0.57(aM)
91	Hexachlorobutadiene	225	11.484	11.484	(1.189)	1357	0.50000	2.74(aM)
92	Naphthalene	128	11.574	11.574	(1.198)	10357	0.50000	0.58(aM)
93	1,2,3-Trichlorobenzene	180	11.761	11.761	(1.217)	3845	0.50000	0.57(aM)
146	Methyl acetate	43	2.232	2.232	(0.534)	2344	0.50000	0.52(aM)
141	Cyclohexane	56	4.163	4.163	(0.996)	4321	0.50000	0.49(aM)
142	Tetrahydrofuran	42	3.870	3.870	(0.926)	1418	1.00000	1.09(aM)
147	Methylcyclohexane	55	5.366	5.366	(1.081)	9168	0.50000	0.54(aM)
135	1,4-Dioxane	88	5.624	5.624	(1.345)	692	10.0000	11.56(aM)
132	n-Butanol	56	5.355	5.355	(1.281)	1626	10.0000	9.70(aM)
131	Methyl Acrylate	55	3.750	3.750	(0.897)	3365	0.50000	0.49(aM)
133	Ethyl Acrylate	55	5.366	5.366	(1.283)	8232	0.50000	0.49(aM)
136	n-Hexane	57	2.787	2.787	(0.667)	2320	0.50000	(aM)
139	Diethyl ether	59	1.767	1.767	(0.423)	2605	0.50000	0.55(a)
148	Tert-butyl alcohol	59	2.442	2.442	(0.584)	7856	10.0000	12.36(M)
149	Isopropyl alcohol	45	2.105	2.105	(0.503)	4548	10.0000	11.53(T)
156	Diisopropyl ether	45	3.008	3.008	(0.719)	10814	0.50000	0.52(Ta)
166	1,2,3-Trimethylbenzene	105	9.737	9.737	(1.008)	9020	0.50000	0.50(a)
167	Ethanol	45	1.696	1.696	(0.406)	1082	10.0000	(aM)
172	tert-Butyl formate	59	4.646	4.646	(1.111)	6083	1.00000	1.13(aM)
173	3,3-Dimethyl-1-butanol	57	7.296	7.296	(0.952)	10397	10.0000	13.14(M)
174	tert-Amyl methyl ether	73	4.669	4.669	(1.117)	9377	0.50000	0.56(TaM)
175	tert-Butyl ethyl ether	59	3.390	3.390	(0.811)	12508	0.50000	0.58(a)
176	tert-Amyl alcohol	59	4.646	4.646	(1.111)	6083	10.0000	11.06(M)
151	4-Methyl-2-pentanol	45	6.723	6.723	(1.354)	20217	10.0000	11.75(M)
180	1-Methylnaphthalene	142	12.672	12.672	(1.312)	3667	0.50000	(a)
140	1,3-Butadiene	54	1.167	1.167	(0.279)	3203	0.50000	0.49(a)
152	Amyl alcohol	42	6.970	6.970	(0.909)	2120	10.0000	10.02(M)
158	Dichlorofluoromethane	67	1.538	1.538	(0.368)	4296	0.50000	0.52(M)
159	Propylene oxide	43	1.801	1.801	(0.431)	615	1.00000	0.99(aM)
161	3-Methyl-1-butanol	55	6.948	6.948	(0.906)	1945	10.0000	10.74(M)
162	Butyl acrylate	55	8.286	8.286	(1.081)	6783	0.50000	0.48(a)
163	Butyl methacrylate	41	9.182	9.182	(0.950)	4724	0.50000	0.50(aM)
182	Epichlorohydrin	57	6.127	6.127	(1.234)	1233	2.00000	2.05(aM)
M 94	1,2-Dichloroethylene (total)	96				5481	1.00000	(a)
130	Ethyl Acetate	43	3.690	3.690	(0.883)	4291	0.50000	0.57(aM)
134	Cyclohexanone	55	8.653	8.653	(0.896)	4174	10.0000	12.11(aM)
185	Isoprene	39	1.756	1.756	(0.420)	843	0.50000	0.50(aM)
188	Isopropyl acetate	43	4.695	4.695	(0.946)	11581	0.50000	0.54(a)
187	n-Amyl acetate	43	8.477	8.477	(1.106)	7447	0.50000	0.55(aM)
189	n-Butyl acetate	43	7.248	7.248	(0.945)	6398	0.50000	0.56(aM)
150	Allyl alcohol	57	2.787	2.787	(0.667)	2068	10.0000	(aM)
194	Acetaldehyde	44	1.212	1.212	(0.290)	32460	2.00000	57.33
195	Methyl Amyl Ketone	43	8.413	8.413	(1.097)	8863	0.50000	0.57(a)
200	Dimethyl Disulfide	94	6.213	6.213	(0.810)	4899	0.50000	0.49(a)

QC Flag Legend

T - Target compound detected outside RT window.
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

QC Flag Legend

M - Compound response manually integrated.



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Sample Info: VSTD000.5;VSTD000.5;1;2;
Purge Volume: 5.0
Column phase: DB624

Instrument: voa6.i
Operator: PC
Column diameter: 0.18

Data File : \\NAHSTWS005\Target\chem\voa6.i\X230714.b\X071403.D
Inj Date : 14-JUL-2023 12:22
InstruID : voa6.i
LabSampID : VSTD000.5

Bromomethane (74-83-9)

Reason Code:

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1399
HEIGHT
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20-Jul-2023
15:04
linh
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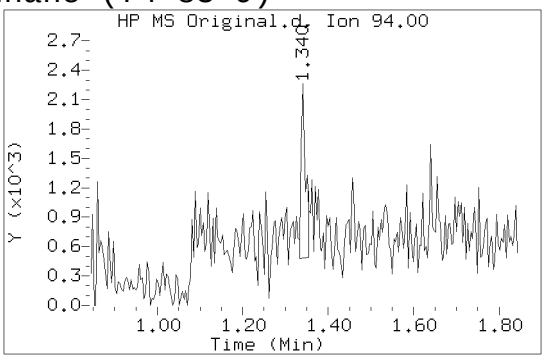

AFTER
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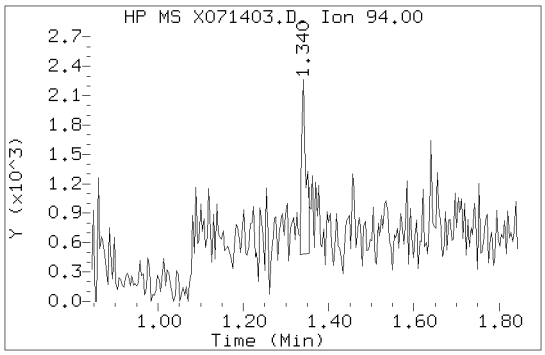

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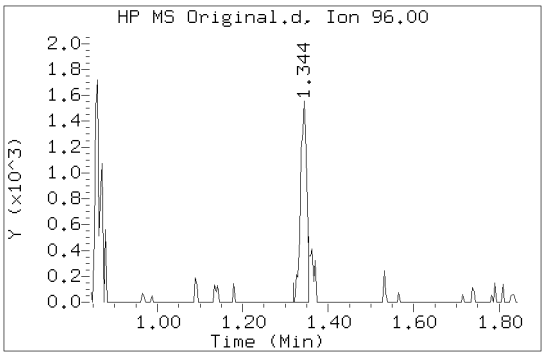

AFTER
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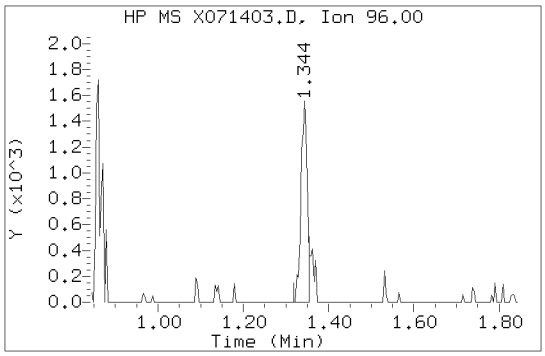

Chloroethane (75-00-3)

Reason Code:

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20-Jul-2023
15:04
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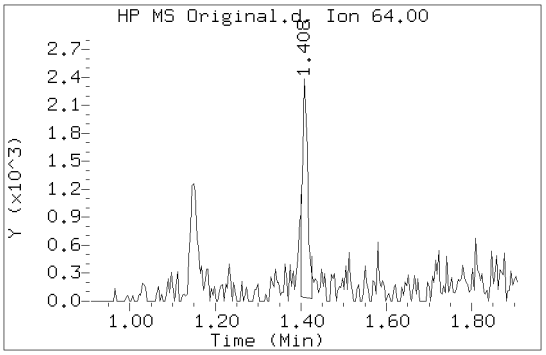

AFTER
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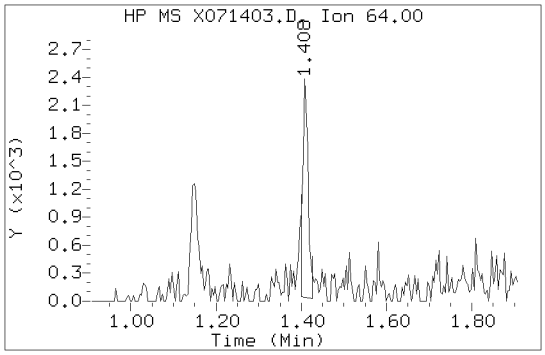

BEFORE
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AREA
934
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704
20-Jul-2023
15:04
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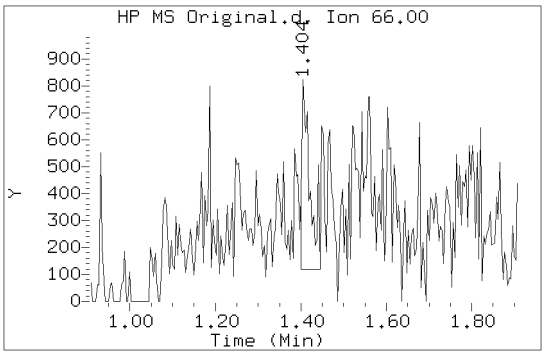

AFTER
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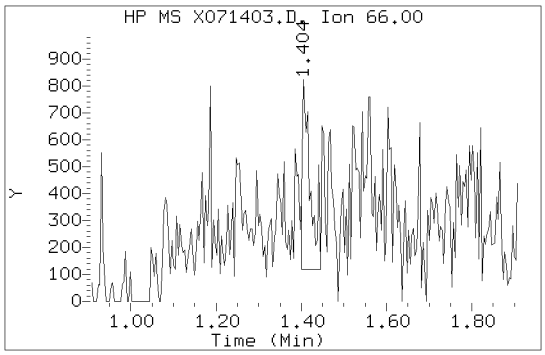

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InstruID : voa6.i
LabSampID : VSTD000.5

Iodomethane (74-88-4)

Reason Code:

BEFORE
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AREA
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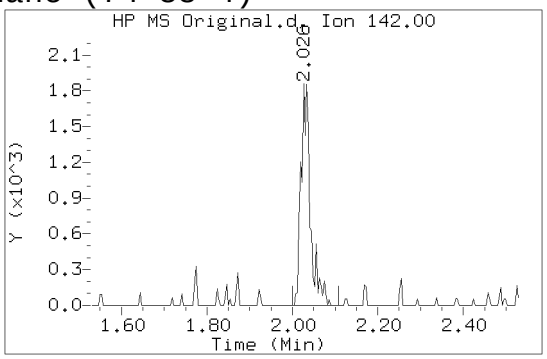
HEIGHT
1860
20-Jul-2023
15:04
linh
pham



AFTER
MASS
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AREA
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HEIGHT
1860
20-Jul-2023
15:04
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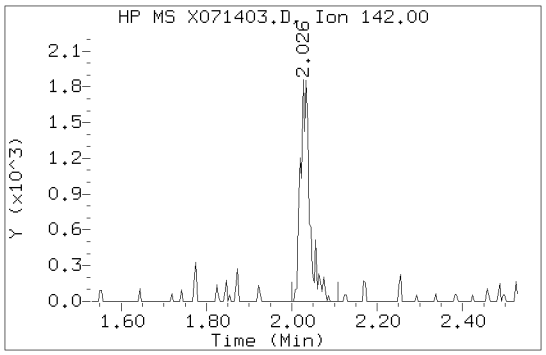
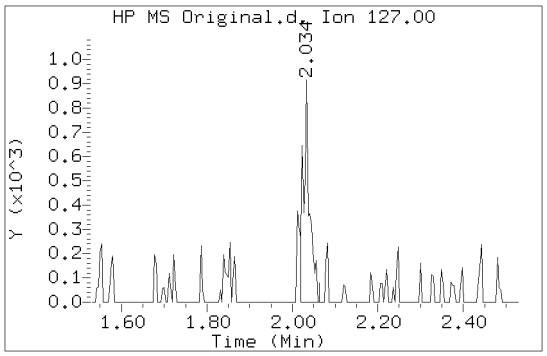


BEFORE
MASS
127
AREA
955
HEIGHT
916
20-Jul-2023
15:04
linh
pham



AFTER
MASS
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AREA
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916
20-Jul-2023
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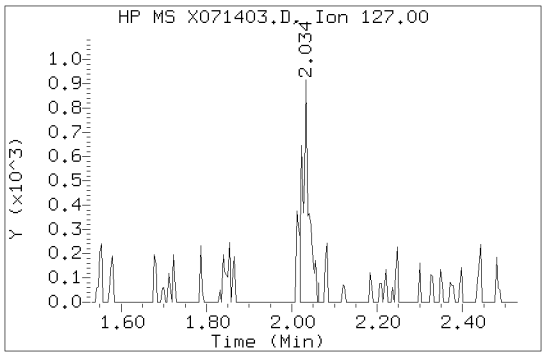

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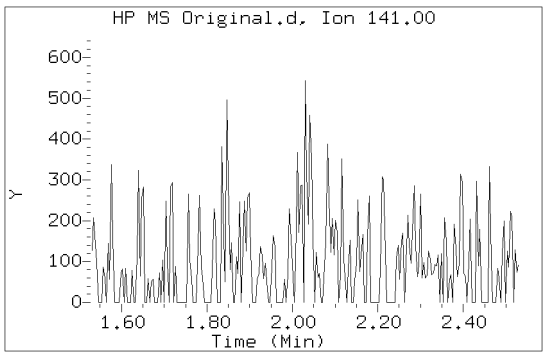

AFTER
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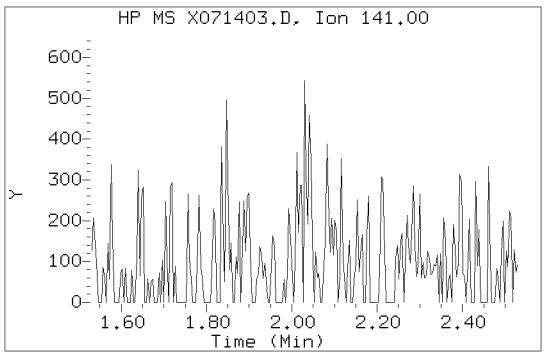

Acrylonitrile (107-13-1)

Reason Code:

BEFORE
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53
AREA
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HEIGHT
1753
20-Jul-2023
15:04
linh
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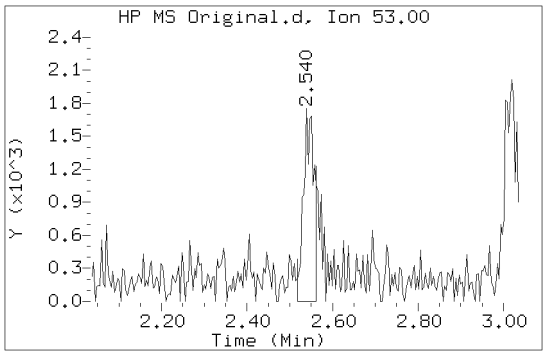

AFTER
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20-Jul-2023
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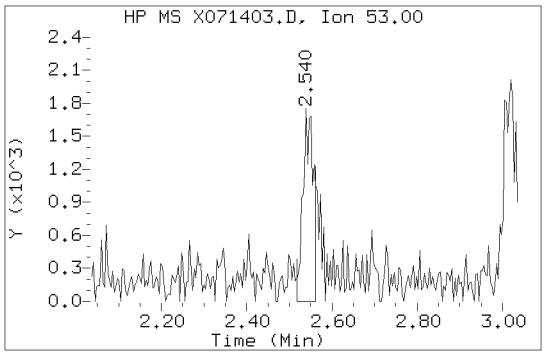

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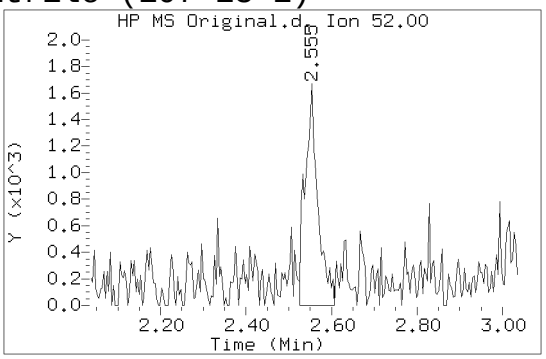
Inj Date : 14-JUL-2023 12:22
InstruID : voa6.i
LabSampID : VSTD000.5

Acrylonitrile (107-13-1)

Reason Code:

BEFORE

MASS
52
AREA
3501
HEIGHT
1670
20-Jul-2023
15:04
linh
pham



AFTER

MASS
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HEIGHT
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20-Jul-2023
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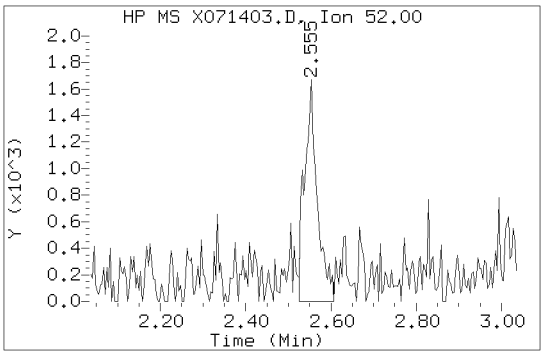

BEFORE

MASS
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AREA
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HEIGHT
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20-Jul-2023
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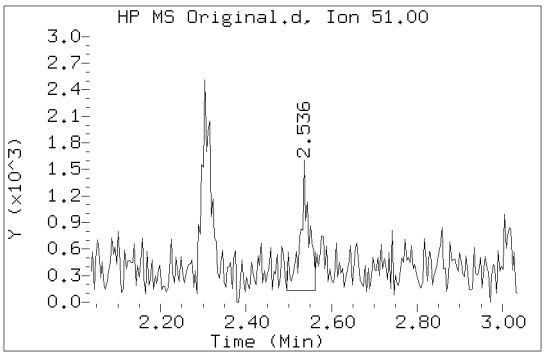

AFTER

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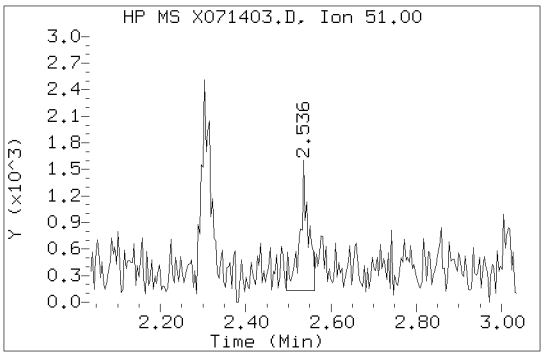
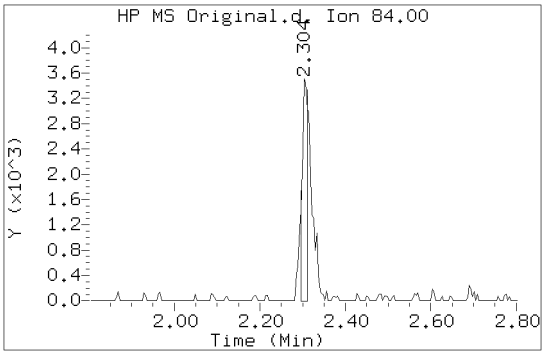


Methylene Chloride (75-09-2)

Reason Code:

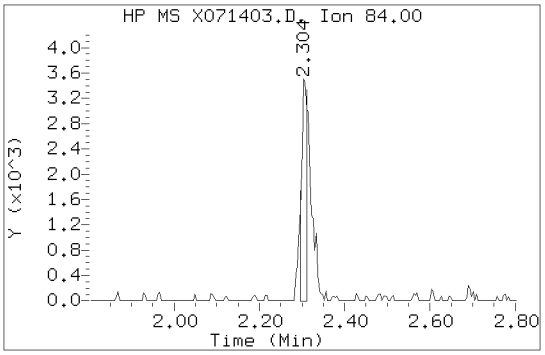
BEFORE

MASS
84
AREA
3115
HEIGHT
3513
20-Jul-2023
15:04
linh
pham



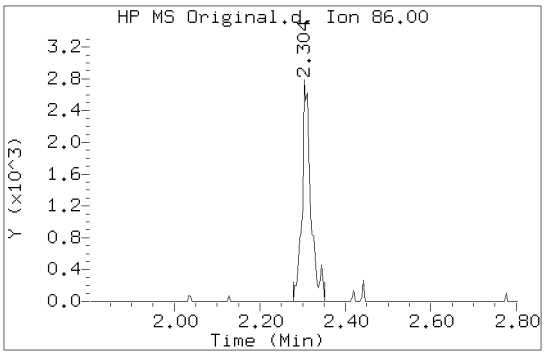
AFTER

MASS
84
AREA
3115
HEIGHT
3513
20-Jul-2023
15:04
linh
pham



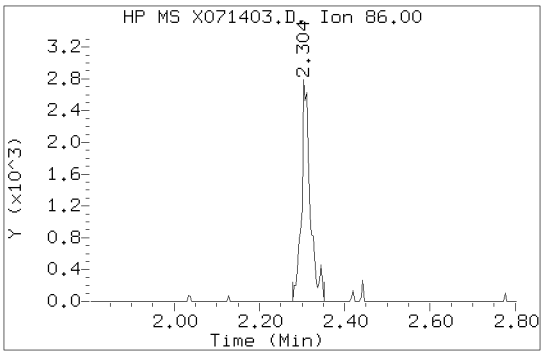
BEFORE

MASS
86
AREA
4061
HEIGHT
2789
20-Jul-2023
15:04
linh
pham



AFTER

MASS
86
AREA
4061
HEIGHT
2789
20-Jul-2023
15:04
linh
pham



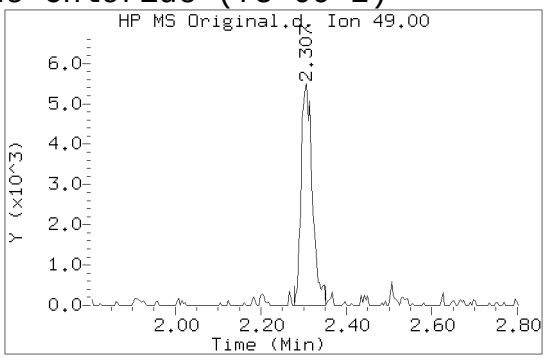
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230714.b\X071403.D
Inj Date : 14-JUL-2023 12:22
InstruID : voa6.i
LabSampID : VSTD000.5

Methylene Chloride (75-09-2)

Reason Code:

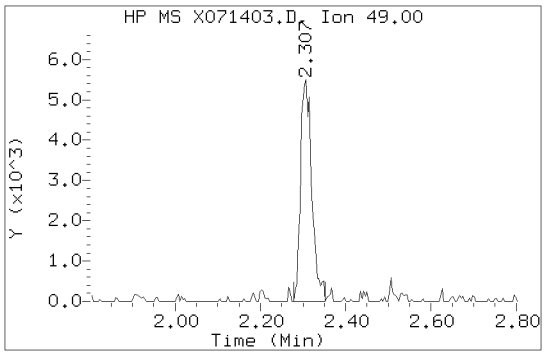
BEFORE

MASS
49
AREA
10268
HEIGHT
5500
20-Jul-2023
15:04
linh
pham



AFTER

MASS
49
AREA
10268
HEIGHT
5500
20-Jul-2023
15:04
linh
pham

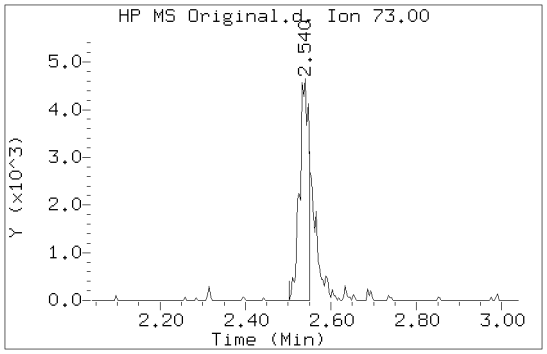


Methyl tert-butyl ether (1634-04-4)

Reason Code:

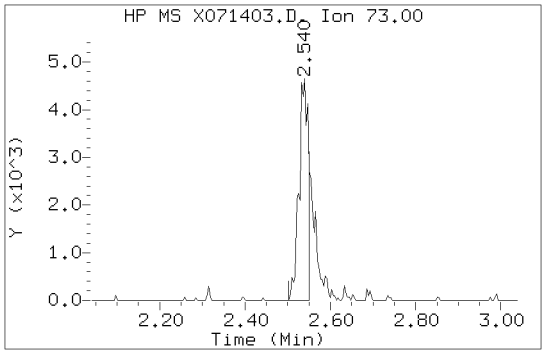
BEFORE

MASS
73
AREA
7187
HEIGHT
4650
20-Jul-2023
15:04
linh
pham



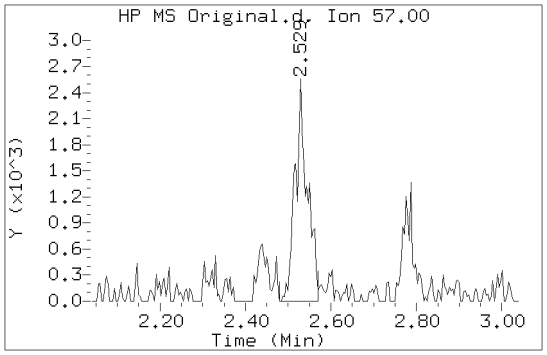
AFTER

MASS
73
AREA
7187
HEIGHT
4650
20-Jul-2023
15:04
linh
pham



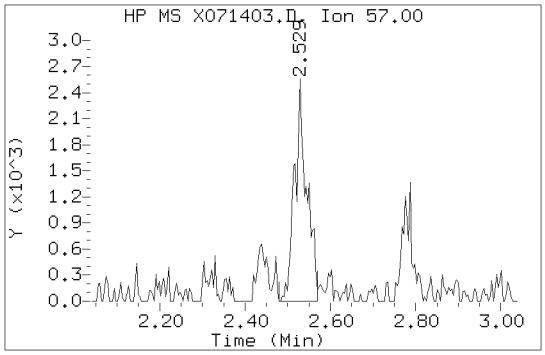
BEFORE

MASS
57
AREA
5084
HEIGHT
2558
20-Jul-2023
15:04
linh
pham



AFTER

MASS
57
AREA
5084
HEIGHT
2558
20-Jul-2023
15:04
linh
pham

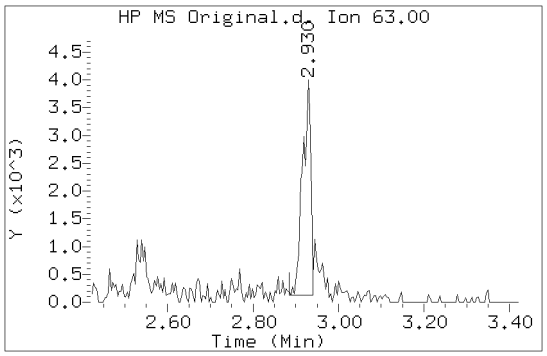


1,1-Dichloroethane (75-34-3)

Reason Code:

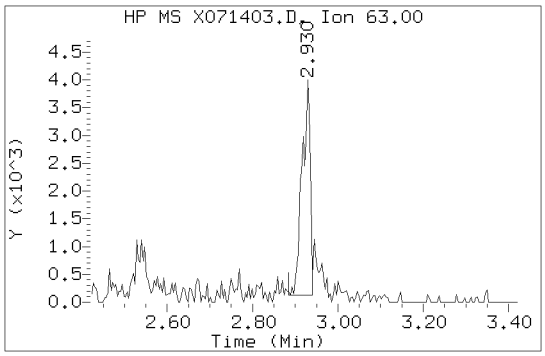
BEFORE

MASS
63
AREA
5250
HEIGHT
3871
20-Jul-2023
15:04
linh
pham



AFTER

MASS
63
AREA
5250
HEIGHT
3871
20-Jul-2023
15:04
linh
pham



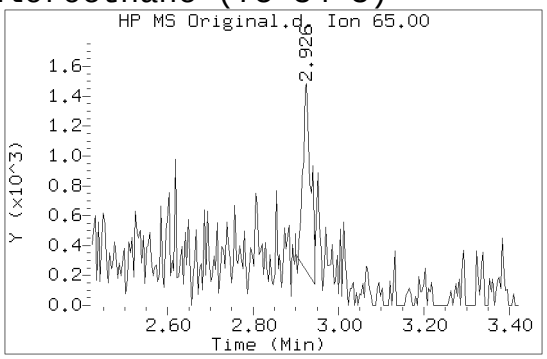
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230714.b\X071403.D
Inj Date : 14-JUL-2023 12:22
InstruID : voa6.i
LabSampID : VSTD000.5

1,1-Dichloroethane (75-34-3)

Reason Code:

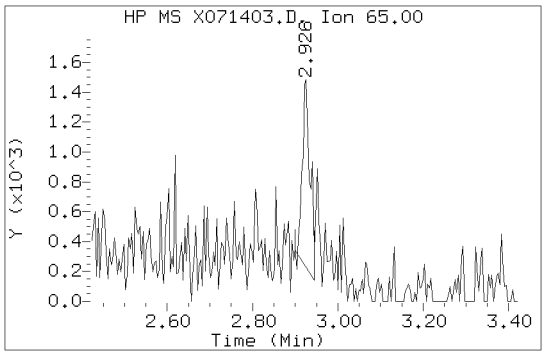
BEFORE

MASS
65
AREA
1602
HEIGHT
1258
20-Jul-2023
15:04
linh
pham



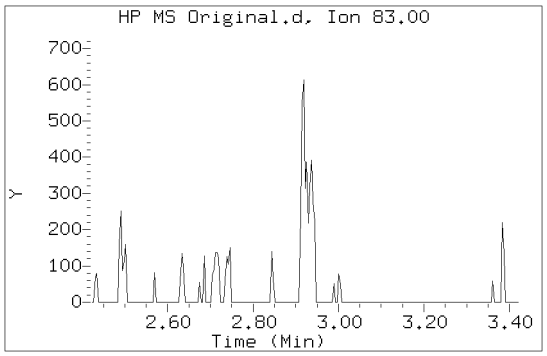
AFTER

MASS
65
AREA
1602
HEIGHT
1258
20-Jul-2023
15:04
linh
pham



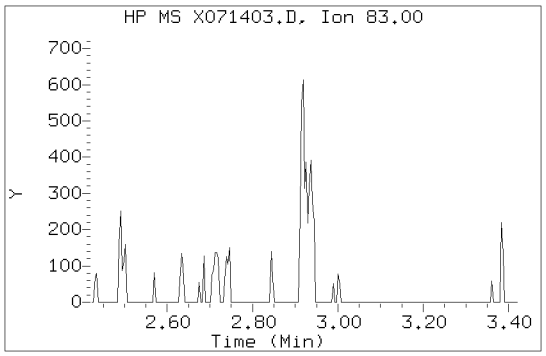
BEFORE

MASS
83
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham



AFTER

MASS
83
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham

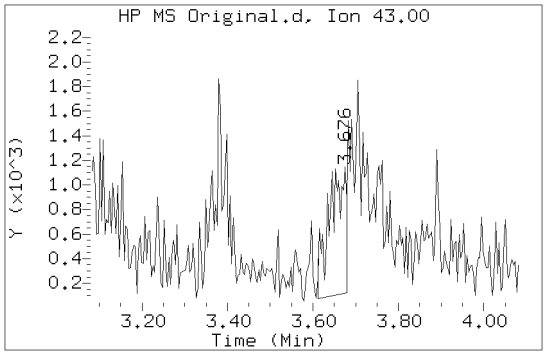


2-Butanone (78-93-3)

Reason Code:

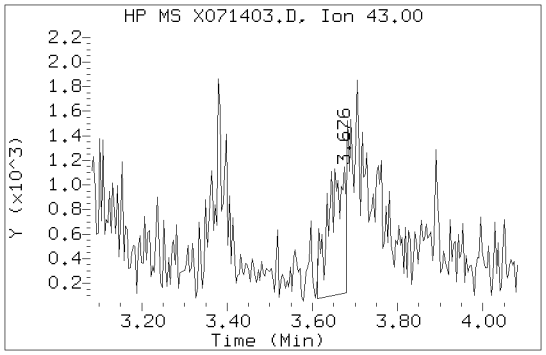
BEFORE

MASS
43
AREA
2827
HEIGHT
1024
20-Jul-2023
15:04
linh
pham



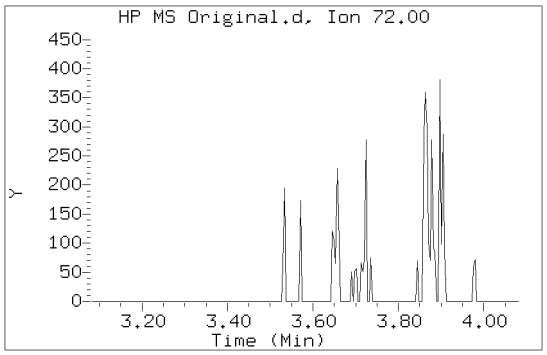
AFTER

MASS
43
AREA
2827
HEIGHT
1024
20-Jul-2023
15:04
linh
pham



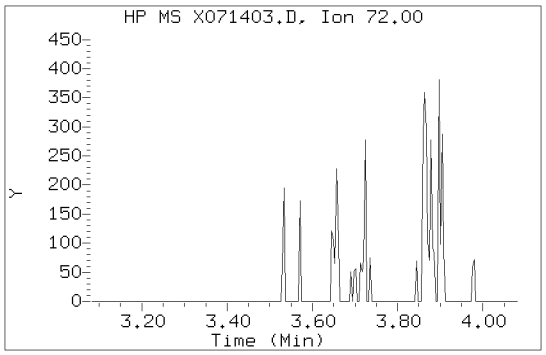
BEFORE

MASS
72
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham



AFTER

MASS
72
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham



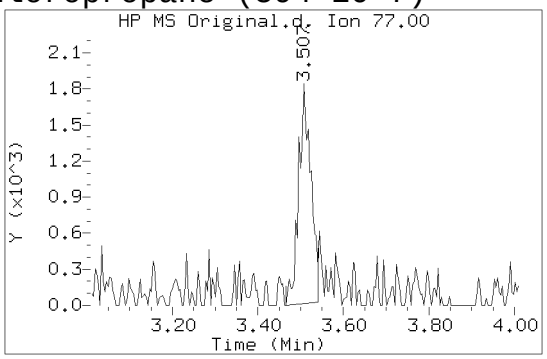
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230714.b\X071403.D
Inj Date : 14-JUL-2023 12:22
InstruID : voa6.i
LabSampID : VSTD000.5

2,2-Dichloropropane (594-20-7)

Reason Code:

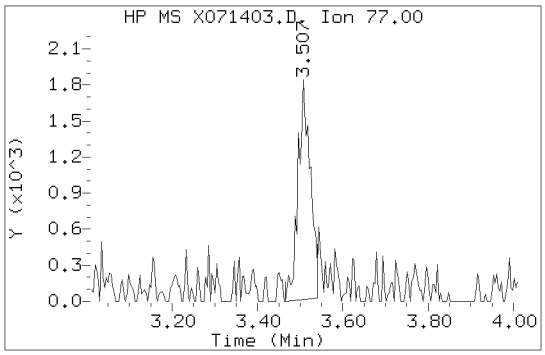
BEFORE

MASS
77
AREA
3703
HEIGHT
1829
20-Jul-2023
15:04
linh
pham



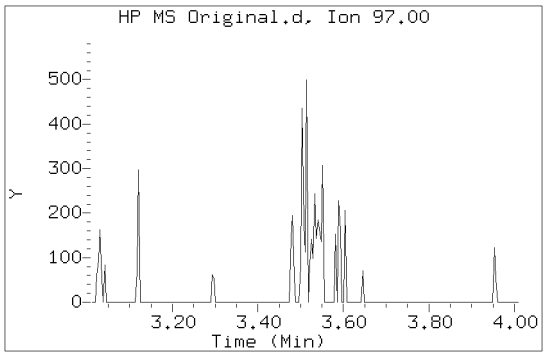
AFTER

MASS
77
AREA
3703
HEIGHT
1829
20-Jul-2023
15:04
linh
pham



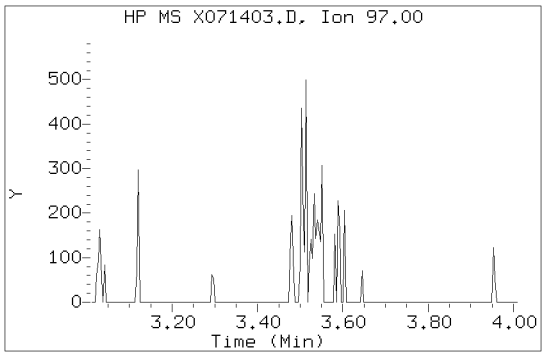
BEFORE

MASS
97
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham



AFTER

MASS
97
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham

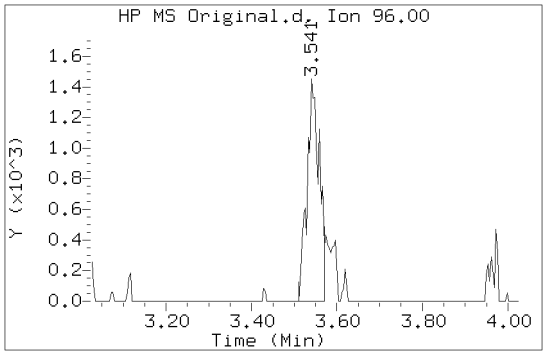


cis-1,2-Dichloroethene (156-59-2)

Reason Code:

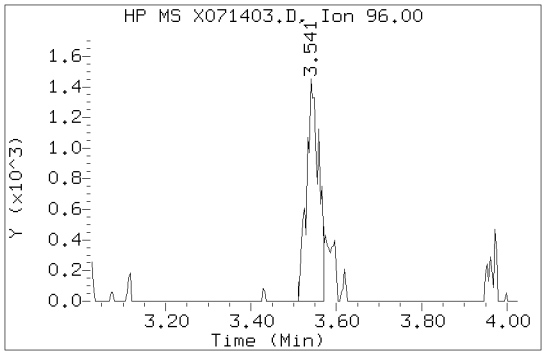
BEFORE

MASS
96
AREA
2924
HEIGHT
1452
20-Jul-2023
15:04
linh
pham



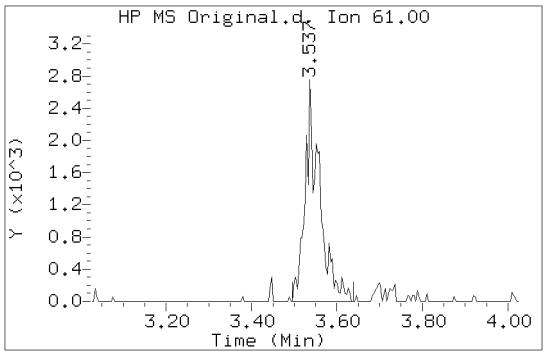
AFTER

MASS
96
AREA
2924
HEIGHT
1452
20-Jul-2023
15:04
linh
pham



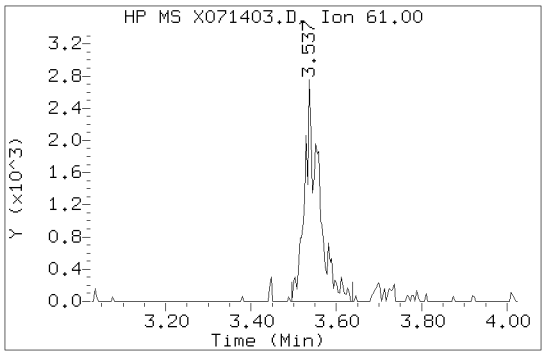
BEFORE

MASS
61
AREA
6464
HEIGHT
2755
20-Jul-2023
15:04
linh
pham



AFTER

MASS
61
AREA
6464
HEIGHT
2755
20-Jul-2023
15:04
linh
pham



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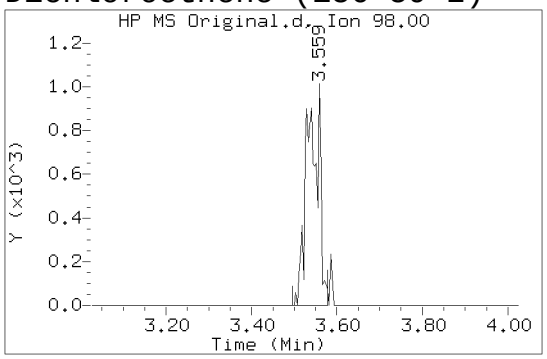
Inj Date : 14-JUL-2023 12:22
InstruID : voa6.i
LabSampID : VSTD000.5

cis-1,2-Dichloroethene (156-59-2)

Reason Code:

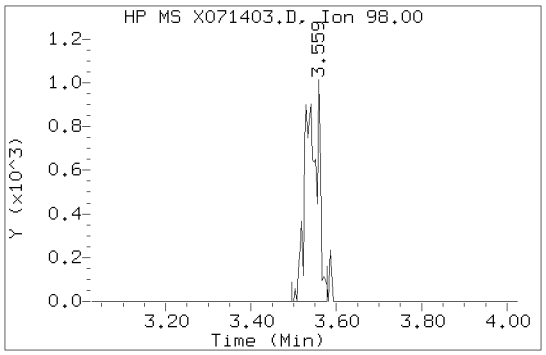
BEFORE

MASS
98
AREA
2118
HEIGHT
1014
20-Jul-2023
15:04
linh
pham



AFTER

MASS
98
AREA
2118
HEIGHT
1014
20-Jul-2023
15:04
linh
pham

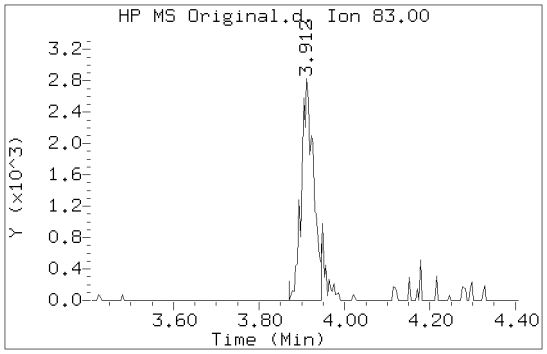


Chloroform (67-66-3)

Reason Code:

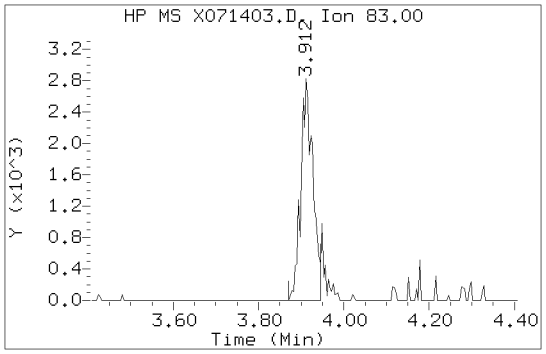
BEFORE

MASS
83
AREA
5643
HEIGHT
2826
20-Jul-2023
15:04
linh
pham



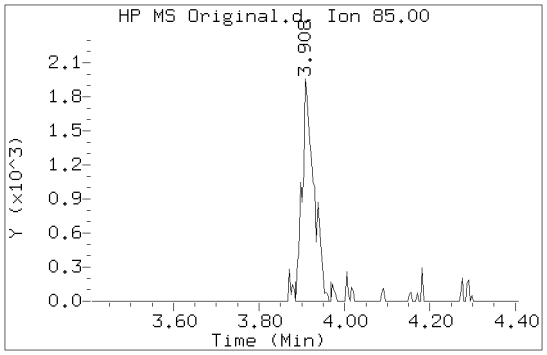
AFTER

MASS
83
AREA
5643
HEIGHT
2826
20-Jul-2023
15:04
linh
pham



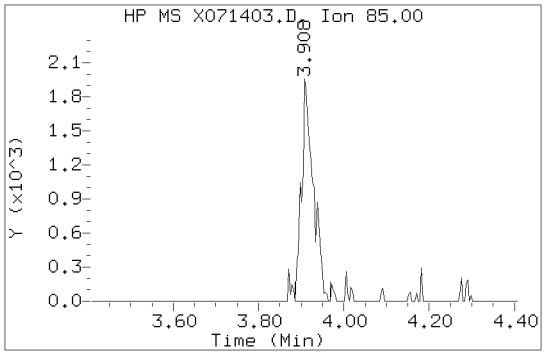
BEFORE

MASS
85
AREA
3815
HEIGHT
1958
20-Jul-2023
15:04
linh
pham



AFTER

MASS
85
AREA
3815
HEIGHT
1958
20-Jul-2023
15:04
linh
pham

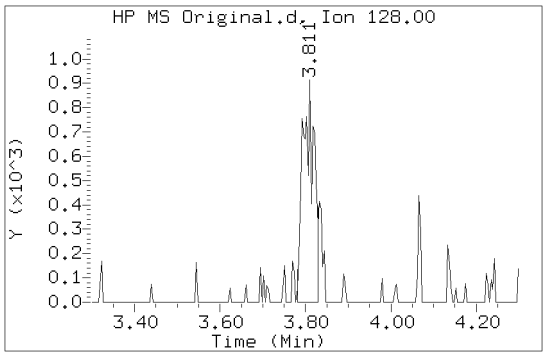


Bromochloromethane (74-97-5)

Reason Code:

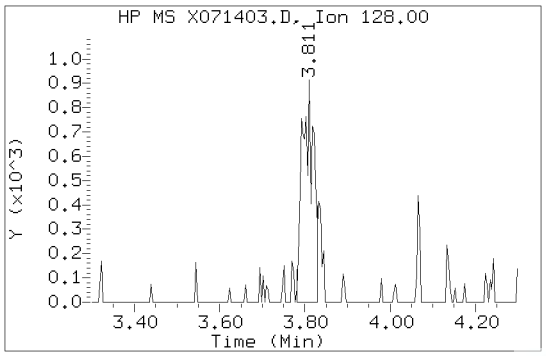
BEFORE

MASS
128
AREA
1717
HEIGHT
914
20-Jul-2023
15:04
linh
pham



AFTER

MASS
128
AREA
1717
HEIGHT
914
20-Jul-2023
15:04
linh
pham

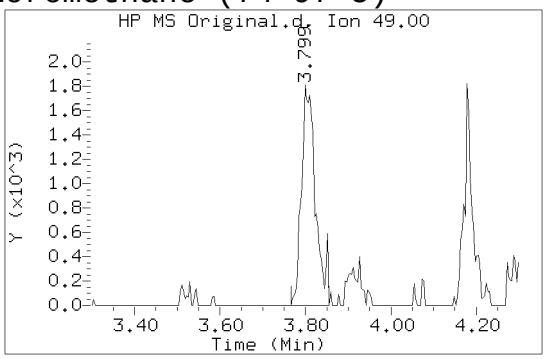


Data File : \\NAHSTWS005\Target\chem\voa6.i\X230714.b\X071403.D
Inj Date : 14-JUL-2023 12:22
InstruID : voa6.i
LabSampID : VSTD000.5

Bromochloromethane (74-97-5)

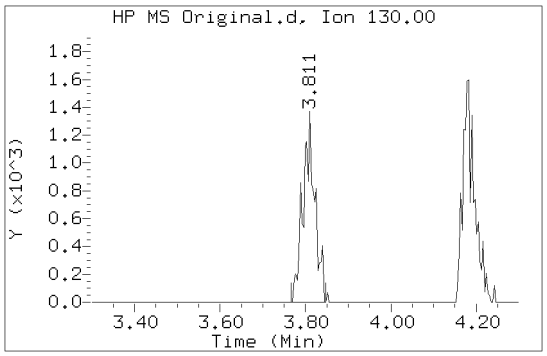
BEFORE

MASS
49
AREA
4173
HEIGHT
1811
20-Jul-2023
15:04
linh
pham



BEFORE

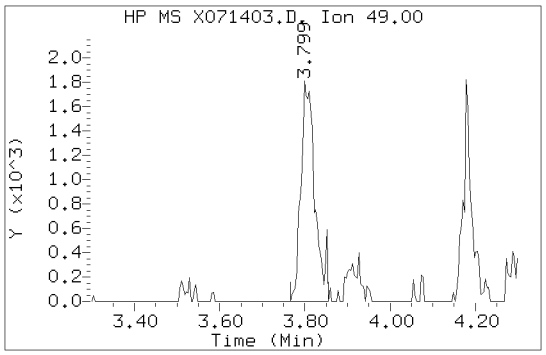
MASS
130
AREA
2643
HEIGHT
1372
20-Jul-2023
15:04
linh
pham



Reason Code:

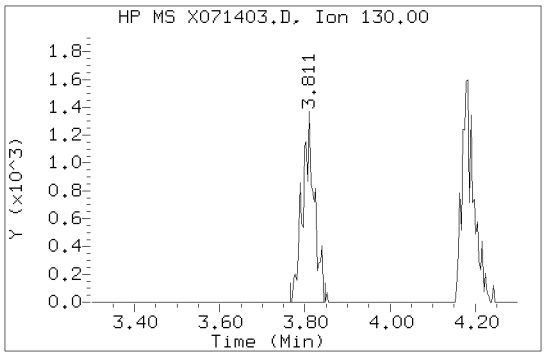
AFTER

MASS
49
AREA
4173
HEIGHT
1811
20-Jul-2023
15:04
linh
pham



AFTER

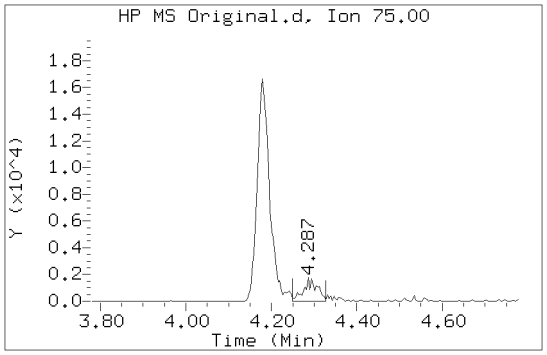
MASS
130
AREA
2643
HEIGHT
1372
20-Jul-2023
15:04
linh
pham



1,1-Dichloropropene (563-58-6)

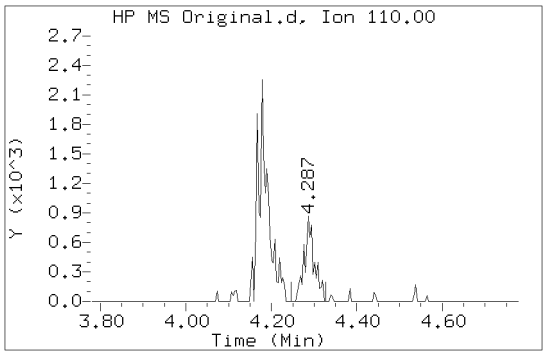
BEFORE

MASS
75
AREA
3744
HEIGHT
1770
20-Jul-2023
15:04
linh
pham



BEFORE

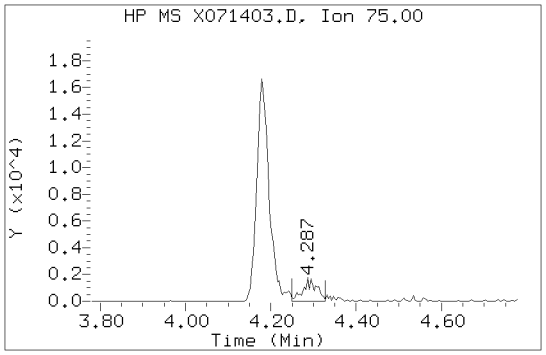
MASS
110
AREA
1389
HEIGHT
866
20-Jul-2023
15:04
linh
pham



Reason Code:

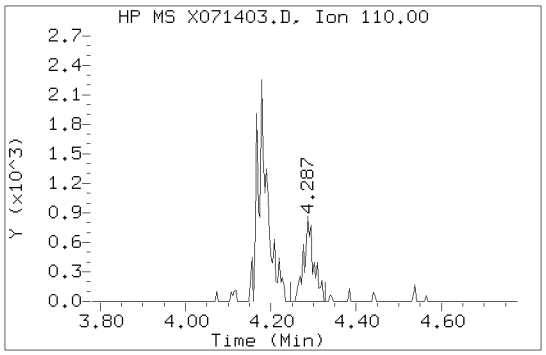
AFTER

MASS
75
AREA
3744
HEIGHT
1770
20-Jul-2023
15:04
linh
pham



AFTER

MASS
110
AREA
1389
HEIGHT
866
20-Jul-2023
15:04
linh
pham



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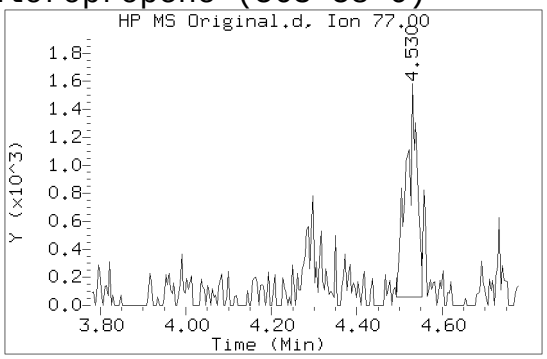
Inj Date : 14-JUL-2023 12:22
InstruID : voa6.i
LabSampID : VSTD000.5

1,1-Dichloropropene (563-58-6)

Reason Code:

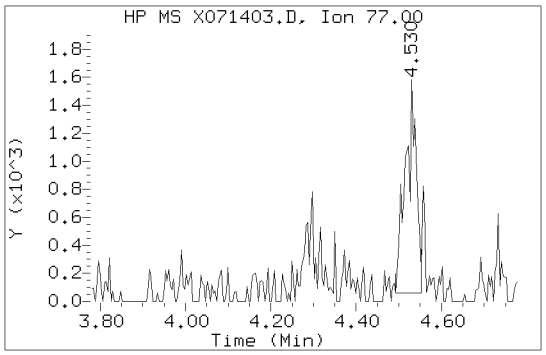
BEFORE

MASS
77
AREA
2714
HEIGHT
1524
20-Jul-2023
15:04
linh
pham



AFTER

MASS
77
AREA
2714
HEIGHT
1524
20-Jul-2023
15:04
linh
pham

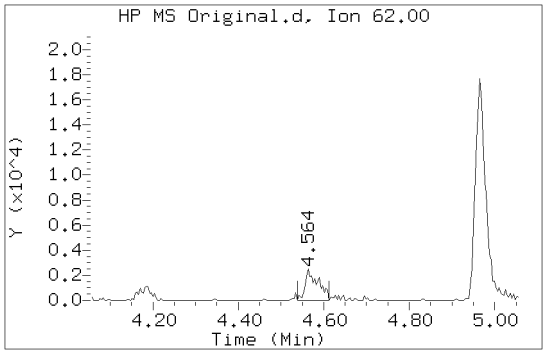


1,2-Dichloroethane (107-06-2)

Reason Code:

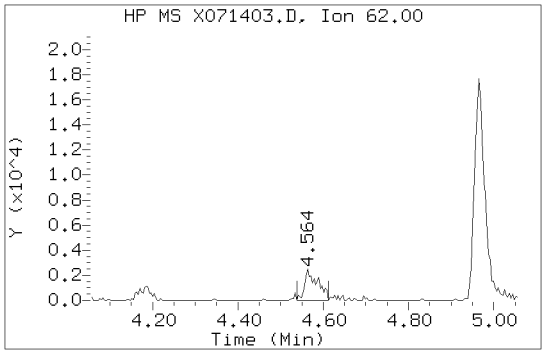
BEFORE

MASS
62
AREA
5246
HEIGHT
2498
20-Jul-2023
15:04
linh
pham



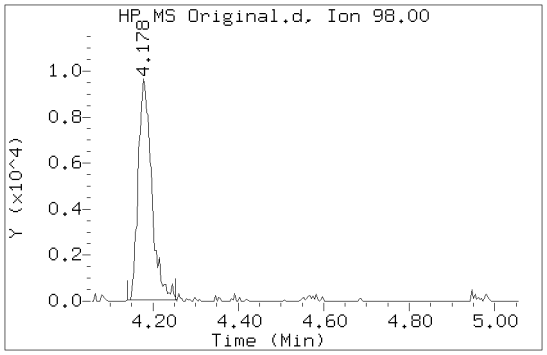
AFTER

MASS
62
AREA
5246
HEIGHT
2498
20-Jul-2023
15:04
linh
pham



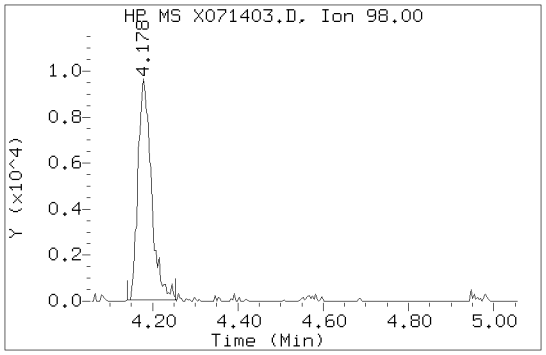
BEFORE

MASS
98
AREA
20890
HEIGHT
9608
20-Jul-2023
15:04
linh
pham



AFTER

MASS
98
AREA
20890
HEIGHT
9608
20-Jul-2023
15:04
linh
pham

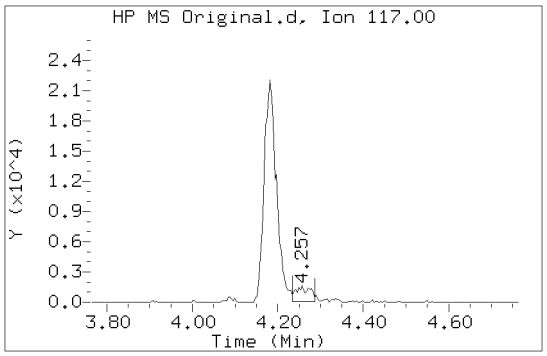


Carbon Tetrachloride (56-23-5)

Reason Code:

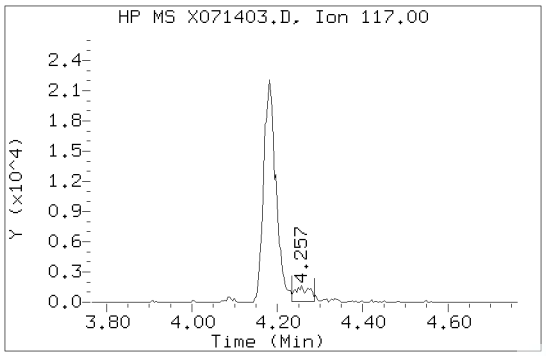
BEFORE

MASS
117
AREA
3613
HEIGHT
1577
20-Jul-2023
15:04
linh
pham



AFTER

MASS
117
AREA
3613
HEIGHT
1577
20-Jul-2023
15:04
linh
pham



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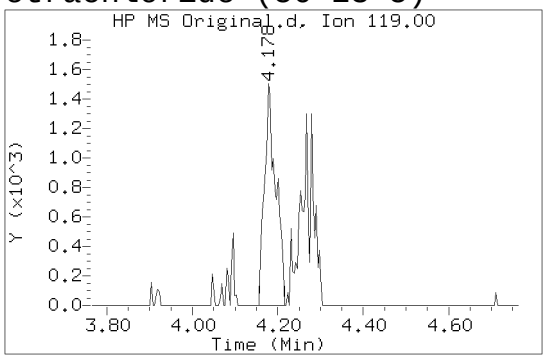
Inj Date : 14-JUL-2023 12:22
InstruID : voa6.i
LabSampID : VSTD000.5

Carbon Tetrachloride (56-23-5)

Reason Code:

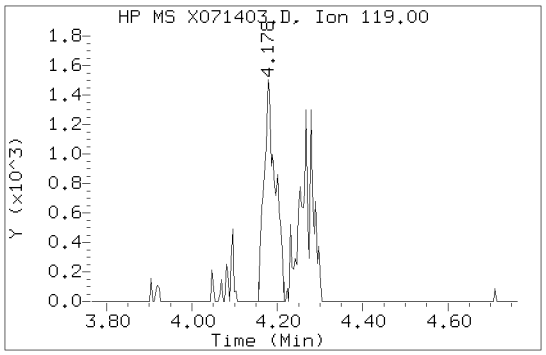
BEFORE

MASS
119
AREA
2769
HEIGHT
1504
20-Jul-2023
15:04
linh
pham



AFTER

MASS
119
AREA
2769
HEIGHT
1504
20-Jul-2023
15:04
linh
pham

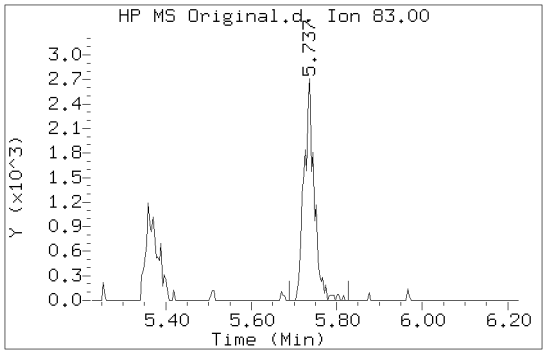


Bromodichloromethane (75-27-4)

Reason Code:

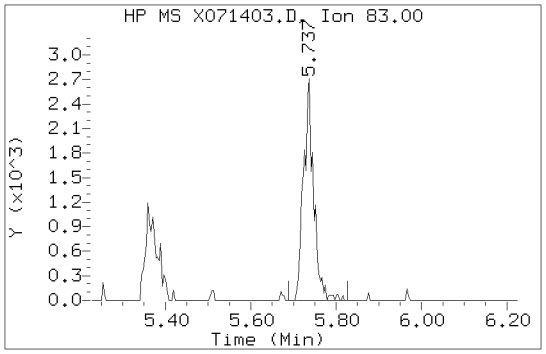
BEFORE

MASS
83
AREA
4539
HEIGHT
2709
20-Jul-2023
15:04
linh
pham



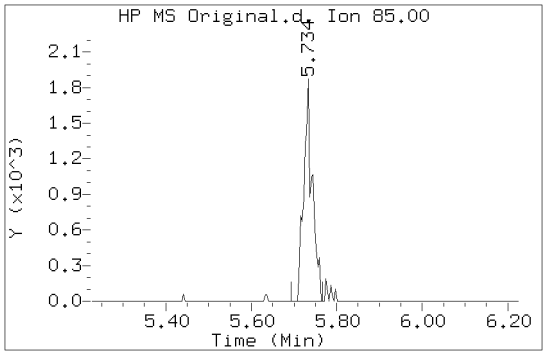
AFTER

MASS
83
AREA
4539
HEIGHT
2709
20-Jul-2023
15:04
linh
pham



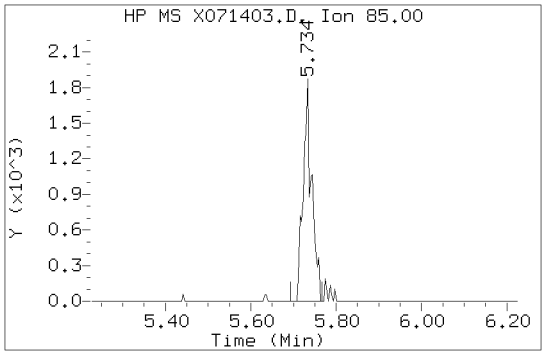
BEFORE

MASS
85
AREA
2648
HEIGHT
1873
20-Jul-2023
15:04
linh
pham



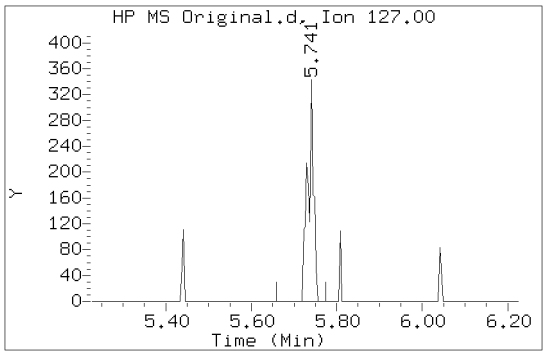
AFTER

MASS
85
AREA
2648
HEIGHT
1873
20-Jul-2023
15:04
linh
pham



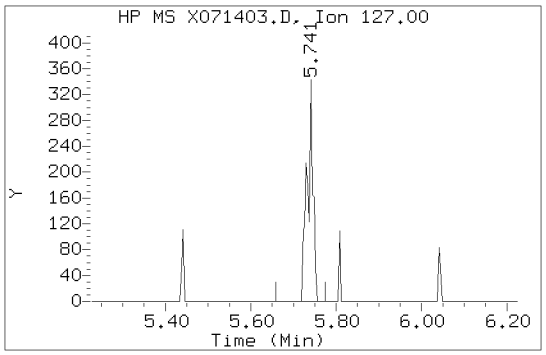
BEFORE

MASS
127
AREA
328
HEIGHT
343
20-Jul-2023
15:04
linh
pham



AFTER

MASS
127
AREA
328
HEIGHT
343
20-Jul-2023
15:04
linh
pham



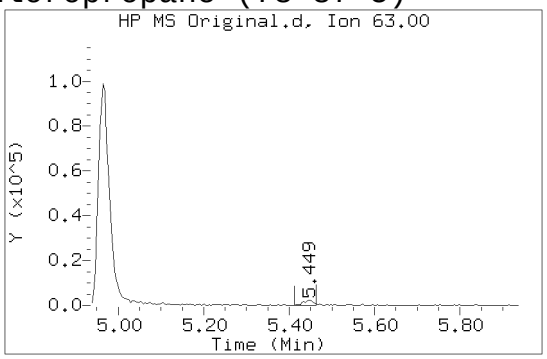
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230714.b\X071403.D
Inj Date : 14-JUL-2023 12:22
InstruID : voa6.i
LabSampID : VSTD000.5

1,2-Dichloropropane (78-87-5)

Reason Code:

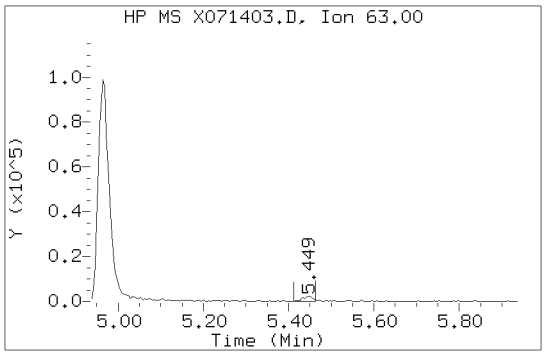
BEFORE

MASS
63
AREA
3473
HEIGHT
2209
20-Jul-2023
15:04
linh
pham



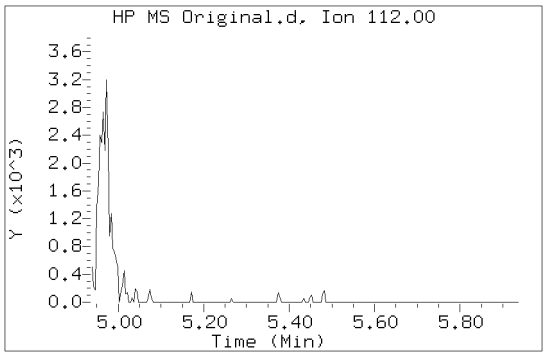
AFTER

MASS
63
AREA
3473
HEIGHT
2209
20-Jul-2023
15:04
linh
pham



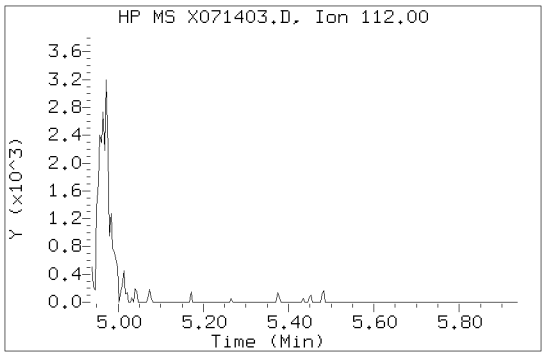
BEFORE

MASS
112
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham



AFTER

MASS
112
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham

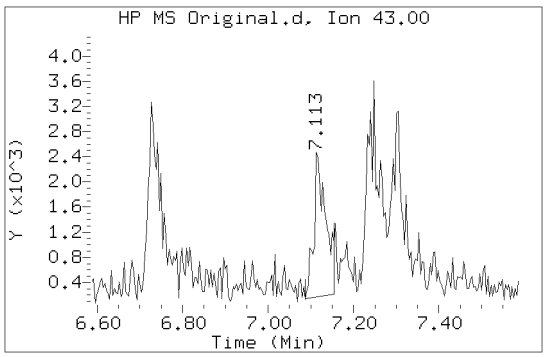


2-Hexanone (591-78-6)

Reason Code:

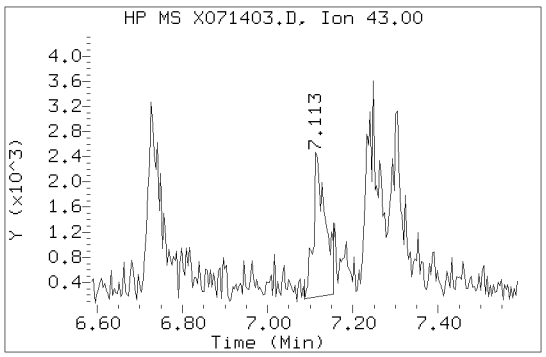
BEFORE

MASS
43
AREA
4470
HEIGHT
2301
20-Jul-2023
15:04
linh
pham



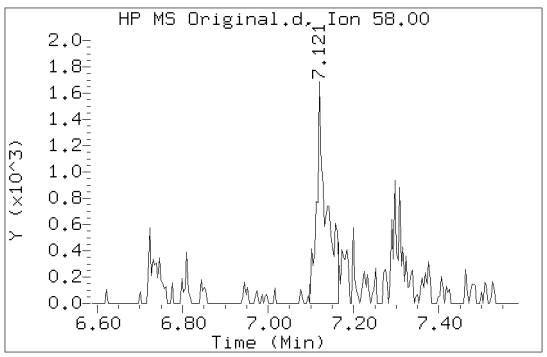
AFTER

MASS
43
AREA
4470
HEIGHT
2301
20-Jul-2023
15:04
linh
pham



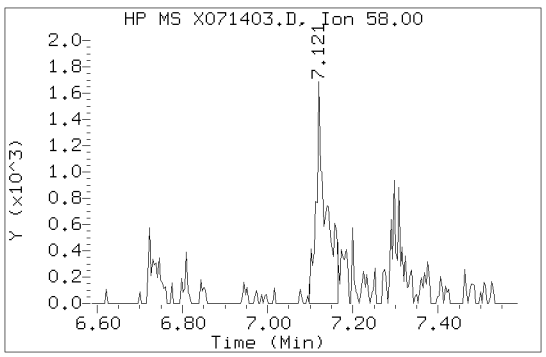
BEFORE

MASS
58
AREA
2664
HEIGHT
1687
20-Jul-2023
15:04
linh
pham



AFTER

MASS
58
AREA
2664
HEIGHT
1687
20-Jul-2023
15:04
linh
pham



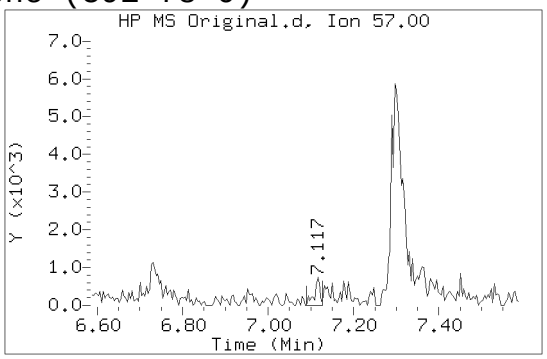
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230714.b\X071403.D
Inj Date : 14-JUL-2023 12:22
InstruID : voa6.i
LabSampID : VSTD000.5

2-Hexanone (591-78-6)

Reason Code:

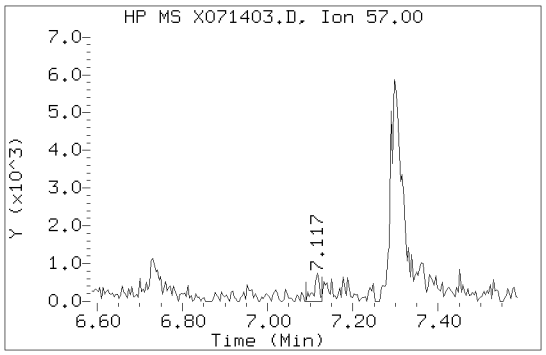
BEFORE

MASS
57
AREA
683
HEIGHT
740
20-Jul-2023
15:04
linh
pham



AFTER

MASS
57
AREA
683
HEIGHT
740
20-Jul-2023
15:04
linh
pham

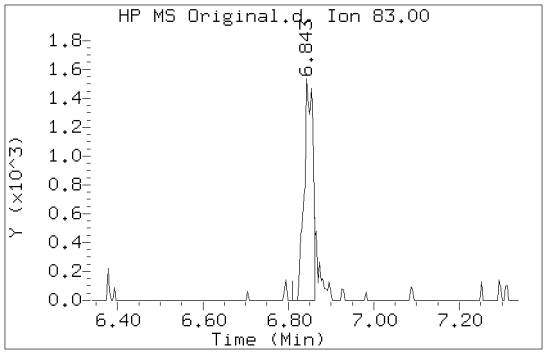


1,1,2-Trichloroethane (79-00-5)

Reason Code:

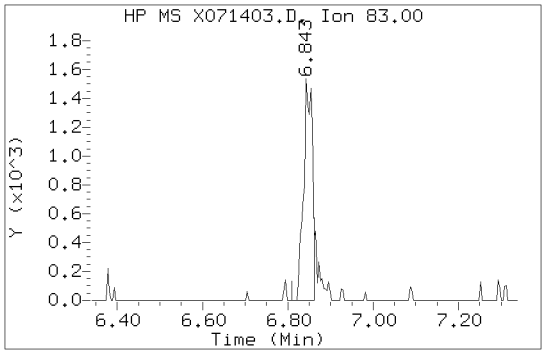
BEFORE

MASS
83
AREA
2223
HEIGHT
1536
20-Jul-2023
15:04
linh
pham



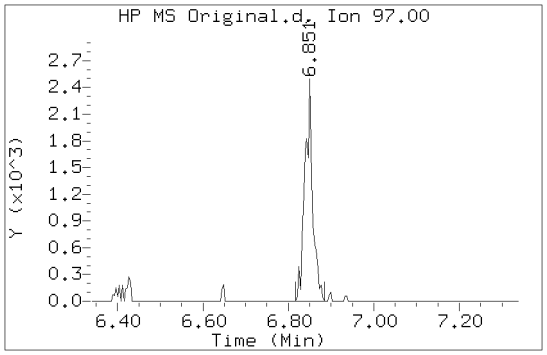
AFTER

MASS
83
AREA
2223
HEIGHT
1536
20-Jul-2023
15:04
linh
pham



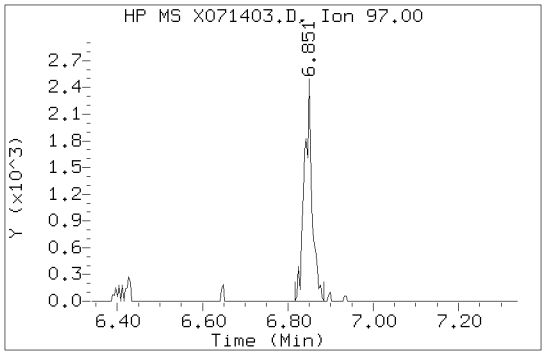
BEFORE

MASS
97
AREA
3209
HEIGHT
2495
20-Jul-2023
15:04
linh
pham



AFTER

MASS
97
AREA
3209
HEIGHT
2495
20-Jul-2023
15:04
linh
pham

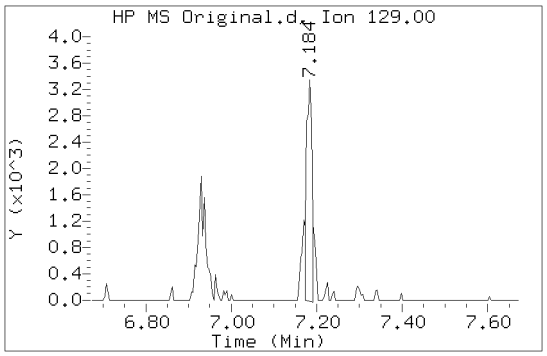


Dibromochloromethane (124-48-1)

Reason Code:

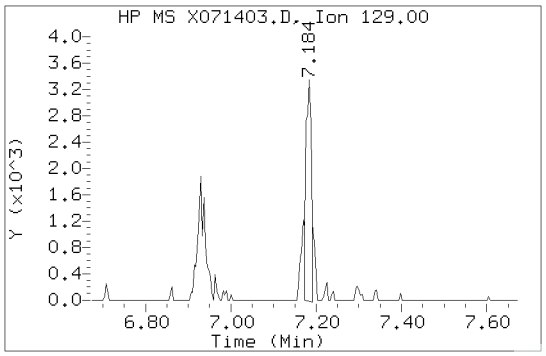
BEFORE

MASS
129
AREA
3132
HEIGHT
3366
20-Jul-2023
15:04
linh
pham



AFTER

MASS
129
AREA
3132
HEIGHT
3366
20-Jul-2023
15:04
linh
pham



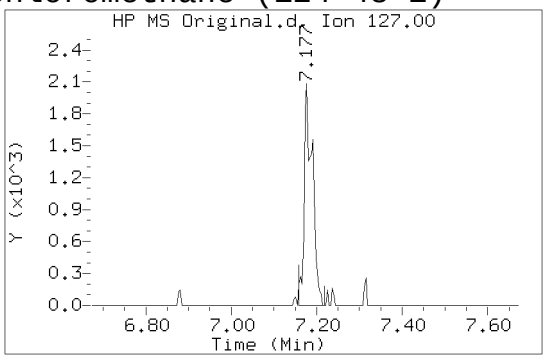
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230714.b\X071403.D
Inj Date : 14-JUL-2023 12:22
InstruID : voa6.i
LabSampID : VSTD000.5

Dibromochloromethane (124-48-1)

Reason Code:

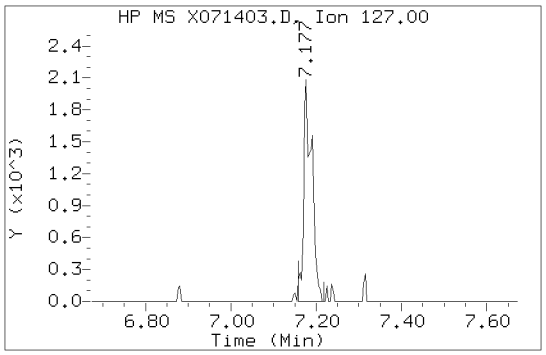
BEFORE

MASS
127
AREA
2854
HEIGHT
2083
20-Jul-2023
15:04
linh
pham



AFTER

MASS
127
AREA
2854
HEIGHT
2083
20-Jul-2023
15:04
linh
pham

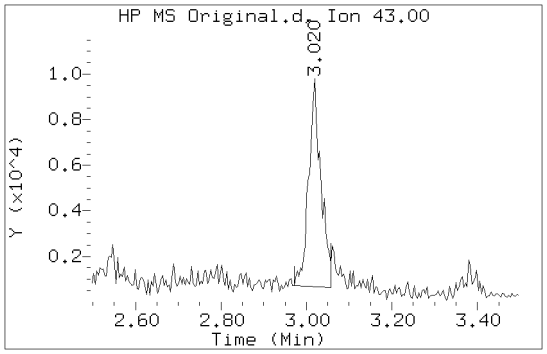


Vinyl Acetate (108-05-4)

Reason Code:

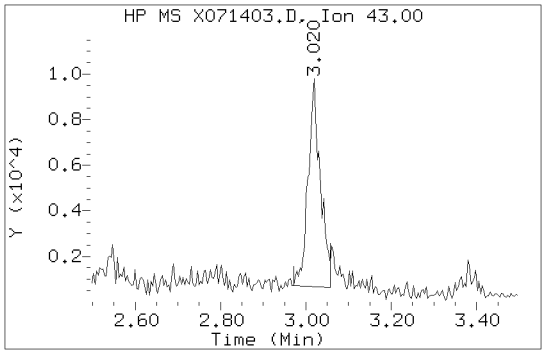
BEFORE

MASS
43
AREA
18224
HEIGHT
9126
20-Jul-2023
15:04
linh
pham



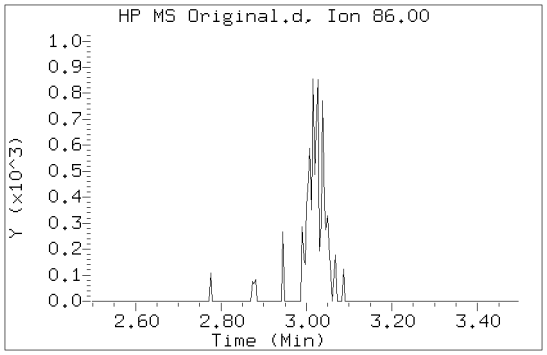
AFTER

MASS
43
AREA
18224
HEIGHT
9126
20-Jul-2023
15:04
linh
pham



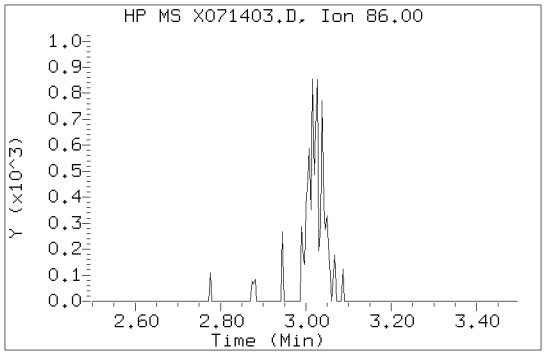
BEFORE

MASS
86
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham



AFTER

MASS
86
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham

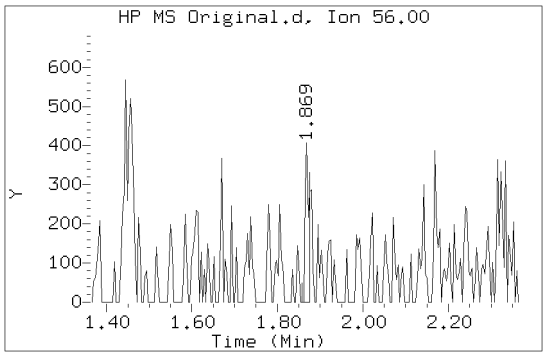


Acrolein (107-02-8)

Reason Code:

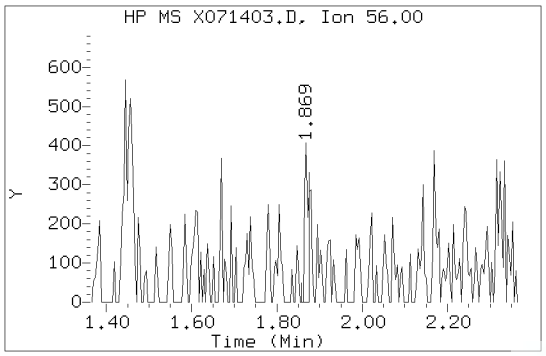
BEFORE

MASS
56
AREA
268
HEIGHT
407
20-Jul-2023
15:04
linh
pham



AFTER

MASS
56
AREA
268
HEIGHT
407
20-Jul-2023
15:04
linh
pham



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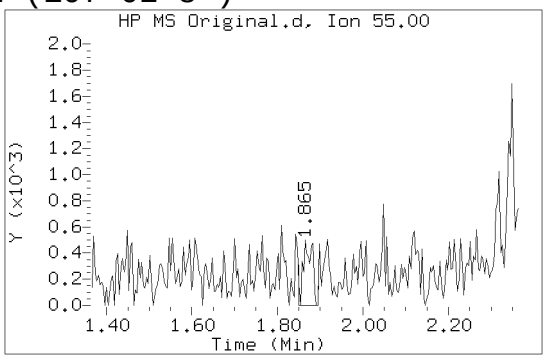
Inj Date : 14-JUL-2023 12:22
InstruID : voa6.i
LabSampID : VSTD000.5

Acrolein (107-02-8)

Reason Code:

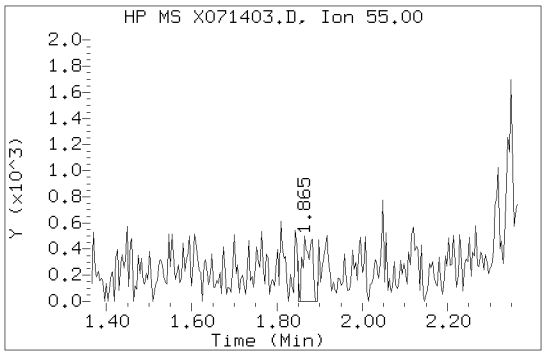
BEFORE

MASS
55
AREA
759
HEIGHT
500
20-Jul-2023
15:04
linh
pham



AFTER

MASS
55
AREA
759
HEIGHT
500
20-Jul-2023
15:04
linh
pham

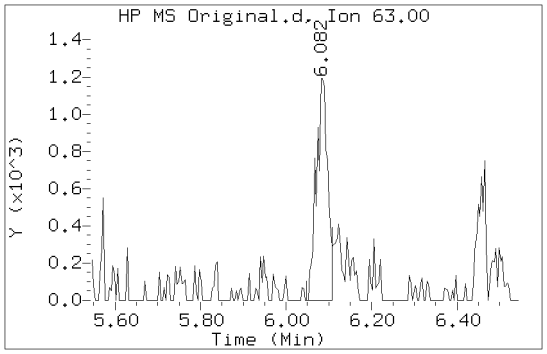


2-Chloroethylvinyl ether (110-75-8)

Reason Code:

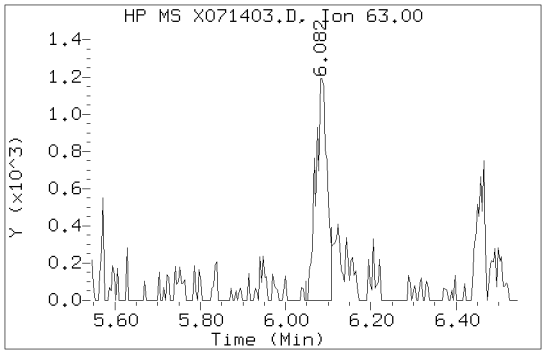
BEFORE

MASS
63
AREA
2206
HEIGHT
1191
20-Jul-2023
15:04
linh
pham



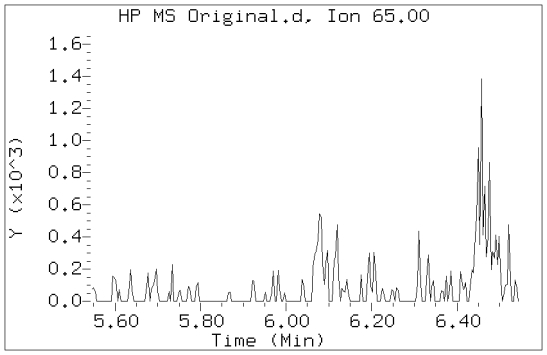
AFTER

MASS
63
AREA
2206
HEIGHT
1191
20-Jul-2023
15:04
linh
pham



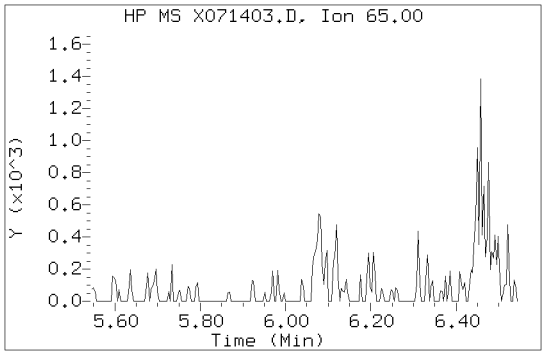
BEFORE

MASS
65
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham



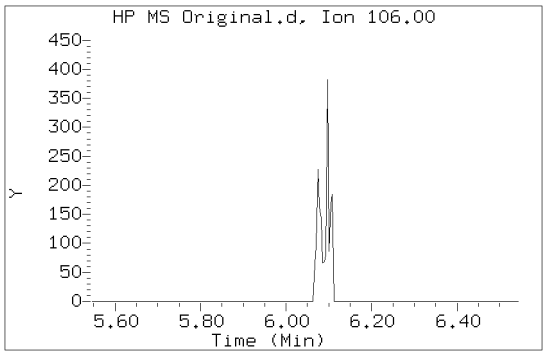
AFTER

MASS
65
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham



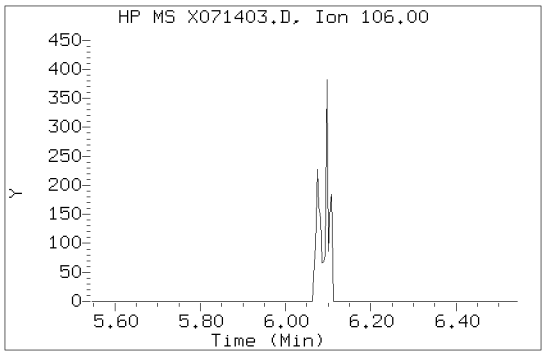
BEFORE

MASS
106
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham



AFTER

MASS
106
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham



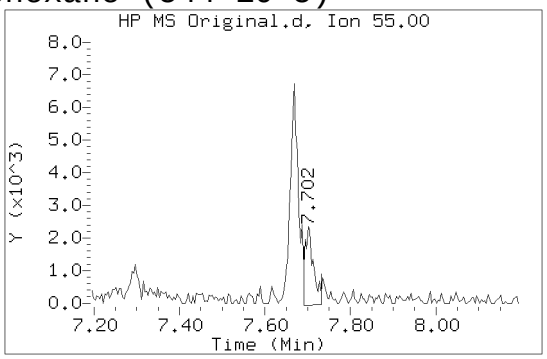
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230714.b\X071403.D
Inj Date : 14-JUL-2023 12:22
InstruID : voa6.i
LabSampID : VSTD000.5

1-Chlorohexane (544-10-5)

Reason Code:

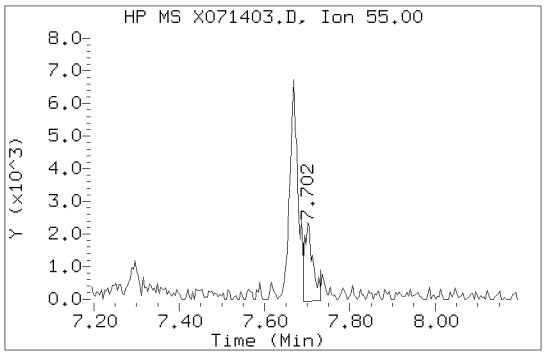
BEFORE

MASS
55
AREA
3459
HEIGHT
2414
20-Jul-2023
15:04
linh
pham



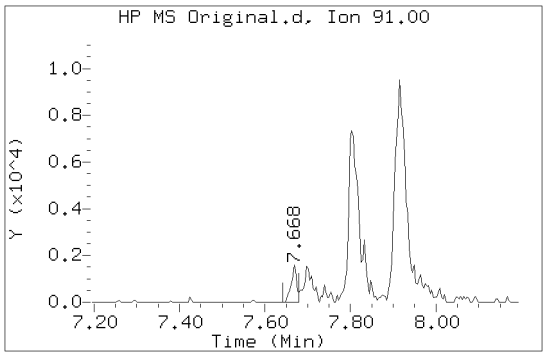
AFTER

MASS
55
AREA
3459
HEIGHT
2414
20-Jul-2023
15:04
linh
pham



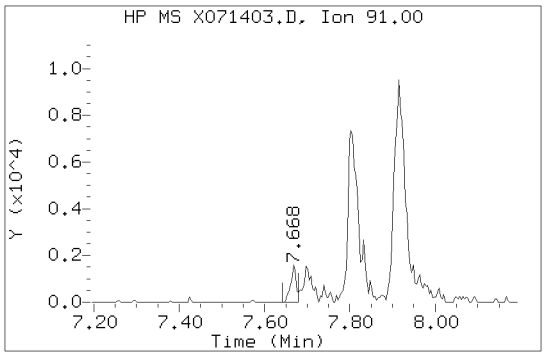
BEFORE

MASS
91
AREA
1435
HEIGHT
1592
20-Jul-2023
15:04
linh
pham



AFTER

MASS
91
AREA
1435
HEIGHT
1592
20-Jul-2023
15:04
linh
pham

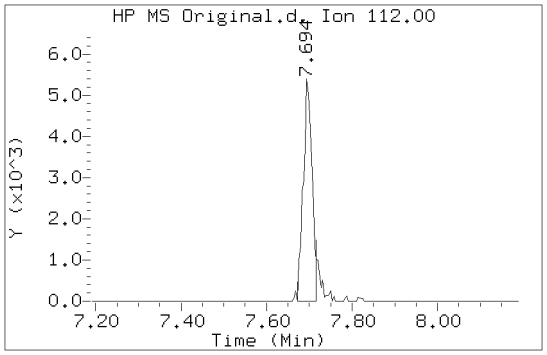


Chlorobenzene (108-90-7)

Reason Code:

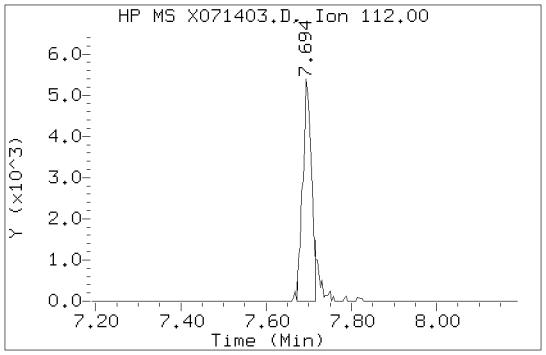
BEFORE

MASS
112
AREA
7907
HEIGHT
5398
20-Jul-2023
15:04
linh
pham



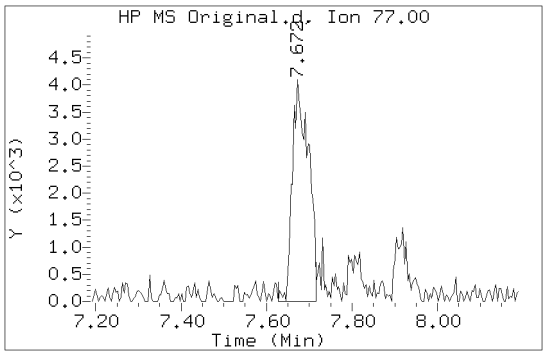
AFTER

MASS
112
AREA
7907
HEIGHT
5398
20-Jul-2023
15:04
linh
pham



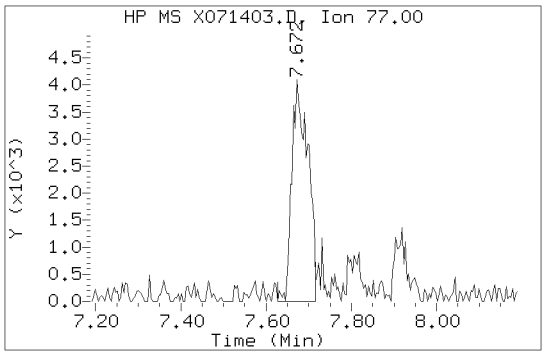
BEFORE

MASS
77
AREA
10872
HEIGHT
4098
20-Jul-2023
15:04
linh
pham



AFTER

MASS
77
AREA
10872
HEIGHT
4098
20-Jul-2023
15:04
linh
pham



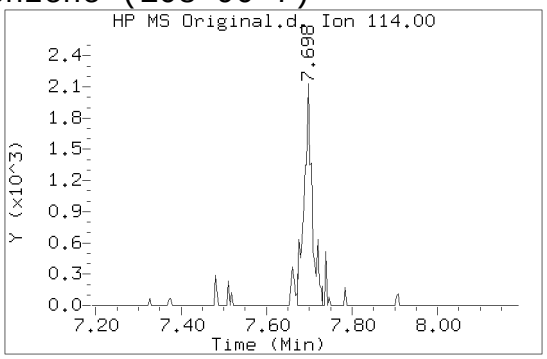
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230714.b\X071403.D
Inj Date : 14-JUL-2023 12:22
InstruID : voa6.i
LabSampID : VSTD000.5

Chlorobenzene (108-90-7)

Reason Code:

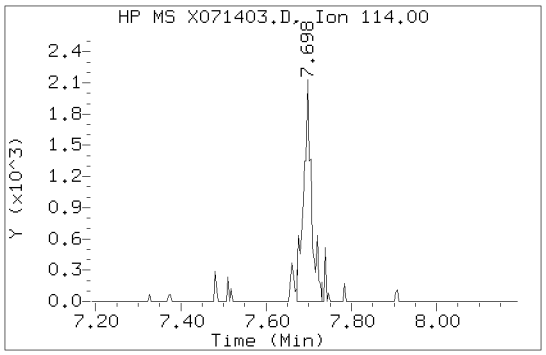
BEFORE

MASS
114
AREA
2819
HEIGHT
2130
20-Jul-2023
15:04
linh
pham



AFTER

MASS
114
AREA
2819
HEIGHT
2130
20-Jul-2023
15:04
linh
pham

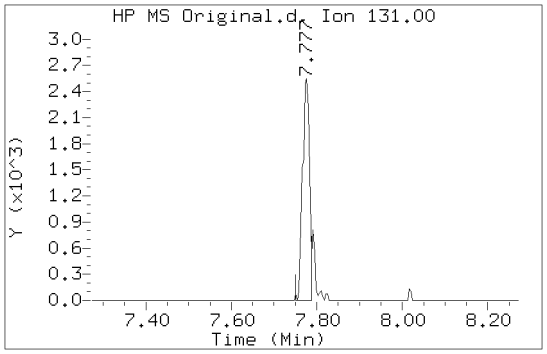


1,1,1,2-Tetrachloroethane (630-20-6)

Reason Code:

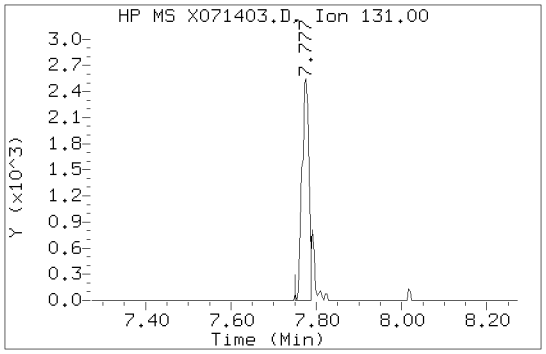
BEFORE

MASS
131
AREA
3008
HEIGHT
2547
20-Jul-2023
15:04
linh
pham



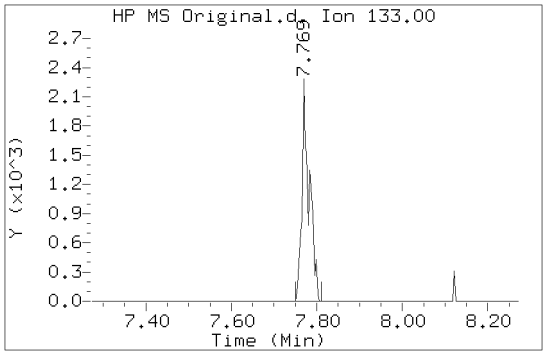
AFTER

MASS
131
AREA
3008
HEIGHT
2547
20-Jul-2023
15:04
linh
pham



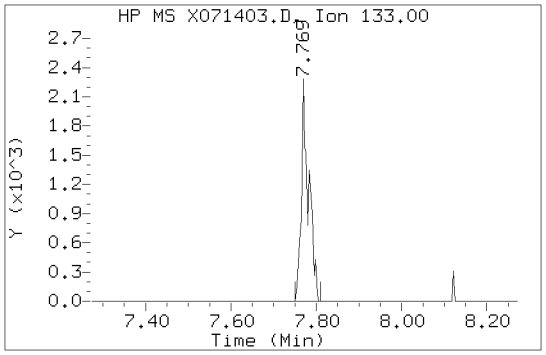
BEFORE

MASS
133
AREA
2774
HEIGHT
2284
20-Jul-2023
15:04
linh
pham



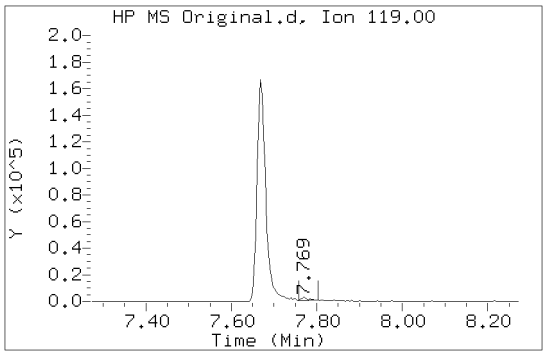
AFTER

MASS
133
AREA
2774
HEIGHT
2284
20-Jul-2023
15:04
linh
pham



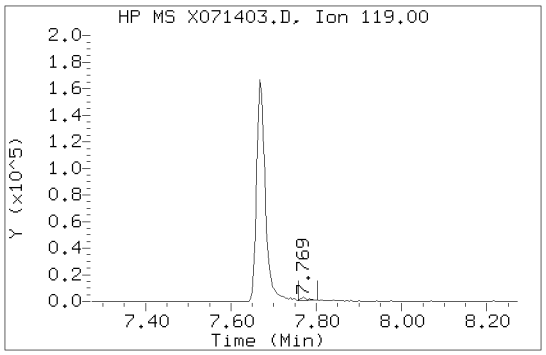
BEFORE

MASS
119
AREA
2799
HEIGHT
2519
20-Jul-2023
15:04
linh
pham



AFTER

MASS
119
AREA
2799
HEIGHT
2519
20-Jul-2023
15:04
linh
pham



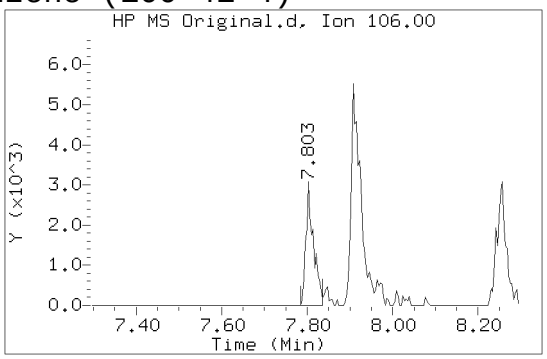
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230714.b\X071403.D
Inj Date : 14-JUL-2023 12:22
InstruID : voa6.i
LabSampID : VSTD000.5

Ethylbenzene (100-41-4)

Reason Code:

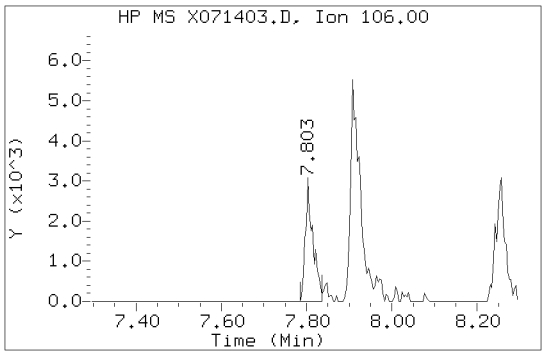
BEFORE

MASS
106
AREA
3909
HEIGHT
3078
20-Jul-2023
15:04
linh
pham



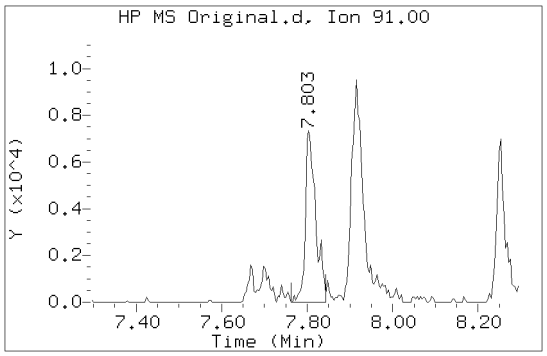
AFTER

MASS
106
AREA
3909
HEIGHT
3078
20-Jul-2023
15:04
linh
pham



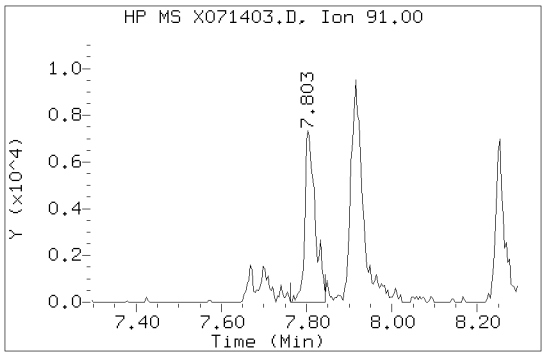
BEFORE

MASS
91
AREA
12659
HEIGHT
7347
20-Jul-2023
15:04
linh
pham



AFTER

MASS
91
AREA
12659
HEIGHT
7347
20-Jul-2023
15:04
linh
pham

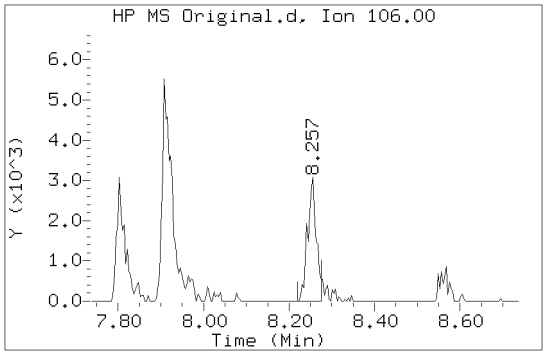


o-Xylene (95-47-6)

Reason Code:

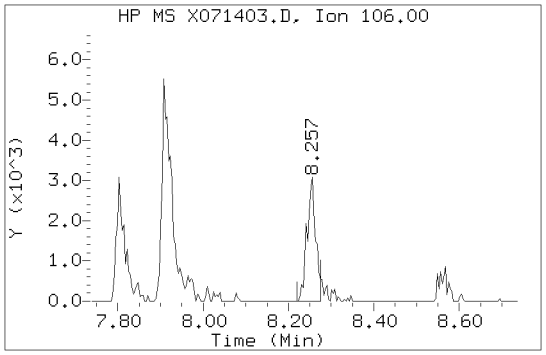
BEFORE

MASS
106
AREA
4414
HEIGHT
3089
20-Jul-2023
15:04
linh
pham



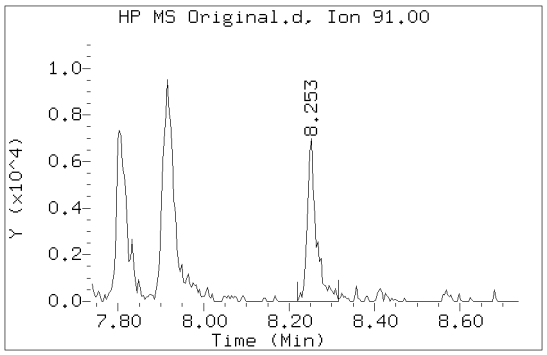
AFTER

MASS
106
AREA
4414
HEIGHT
3089
20-Jul-2023
15:04
linh
pham



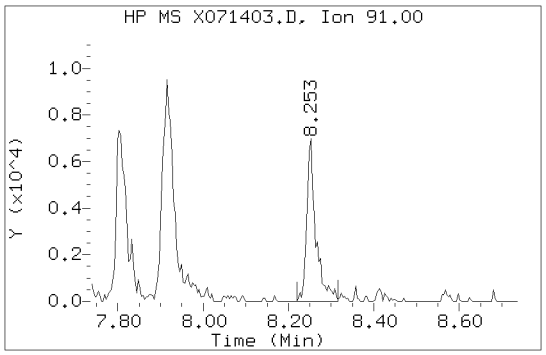
BEFORE

MASS
91
AREA
10415
HEIGHT
7000
20-Jul-2023
15:04
linh
pham



AFTER

MASS
91
AREA
10415
HEIGHT
7000
20-Jul-2023
15:04
linh
pham



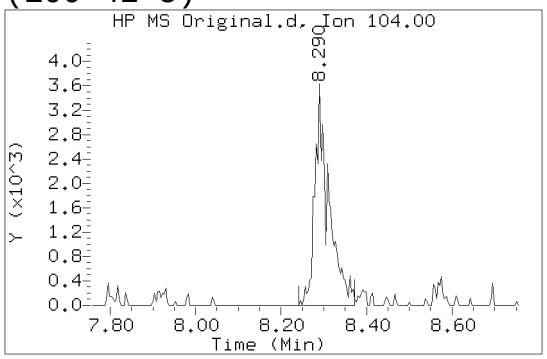
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230714.b\X071403.D
Inj Date : 14-JUL-2023 12:22
InstruID : voa6.i
LabSampID : VSTD000.5

Styrene (100-42-5)

Reason Code:

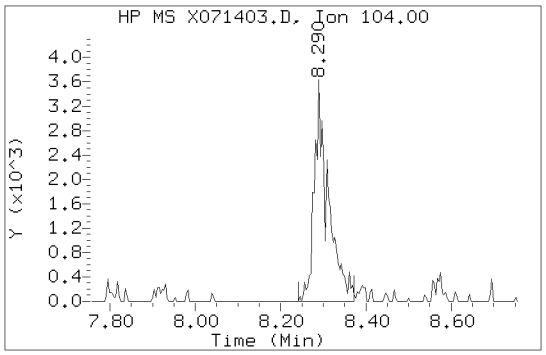
BEFORE

MASS
104
AREA
8133
HEIGHT
3635
20-Jul-2023
15:04
linh
pham



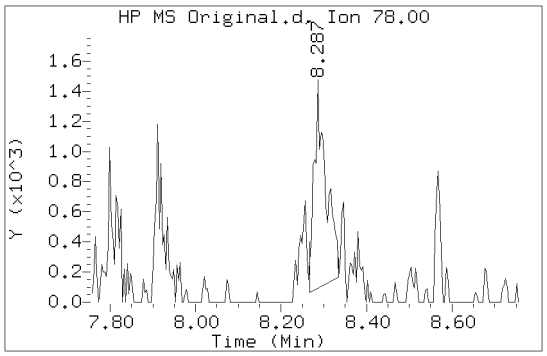
AFTER

MASS
104
AREA
8133
HEIGHT
3635
20-Jul-2023
15:04
linh
pham



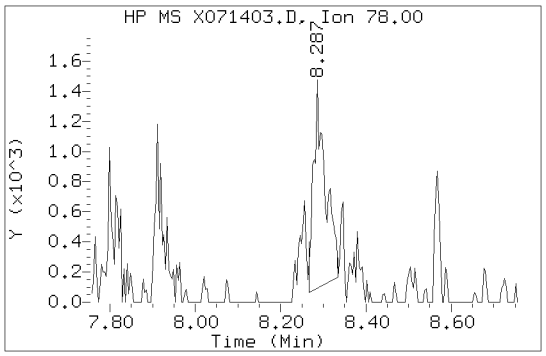
BEFORE

MASS
78
AREA
2633
HEIGHT
1381
20-Jul-2023
15:04
linh
pham



AFTER

MASS
78
AREA
2633
HEIGHT
1381
20-Jul-2023
15:04
linh
pham

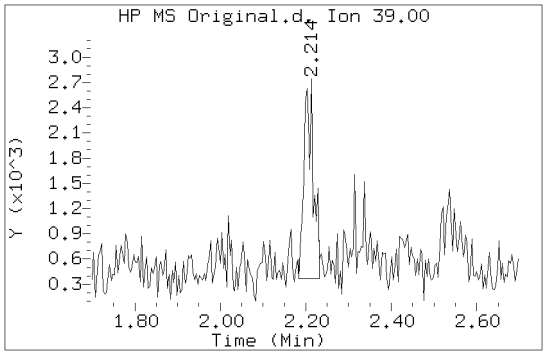


Acetonitrile (75-05-8)

Reason Code:

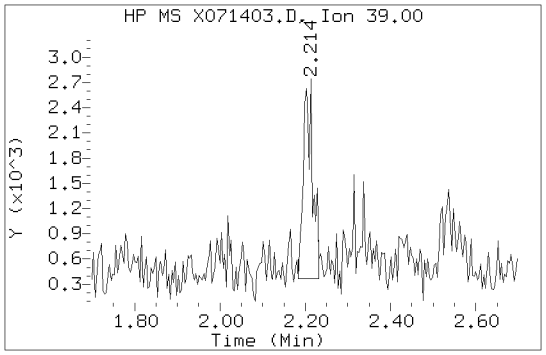
BEFORE

MASS
39
AREA
3606
HEIGHT
2378
20-Jul-2023
15:04
linh
pham



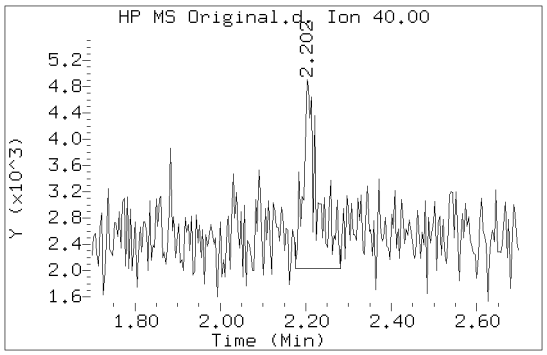
AFTER

MASS
39
AREA
3606
HEIGHT
2378
20-Jul-2023
15:04
linh
pham



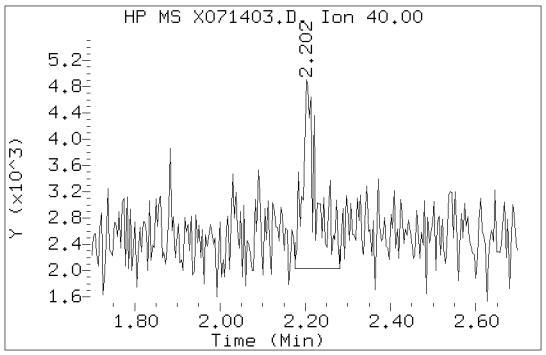
BEFORE

MASS
40
AREA
6842
HEIGHT
2874
20-Jul-2023
15:04
linh
pham



AFTER

MASS
40
AREA
6842
HEIGHT
2874
20-Jul-2023
15:04
linh
pham



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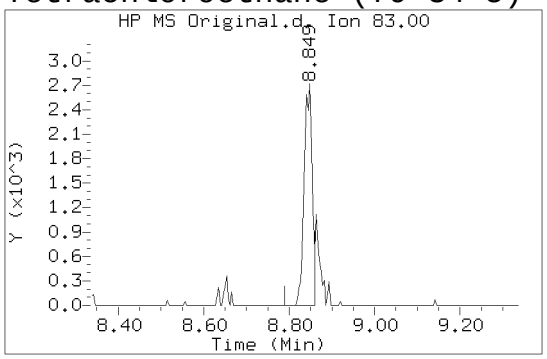
Inj Date : 14-JUL-2023 12:22
InstruID : voa6.i
LabSampID : VSTD000.5

1,1,2,2-Tetrachloroethane (79-34-5)

Reason Code:

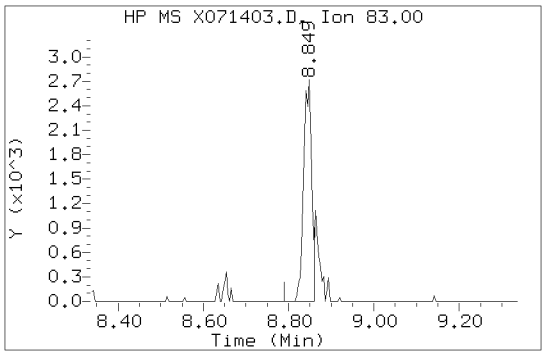
BEFORE

MASS
83
AREA
3654
HEIGHT
2720
20-Jul-2023
15:04
linh
pham



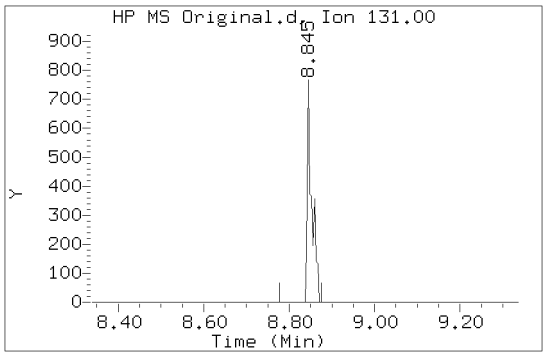
AFTER

MASS
83
AREA
3654
HEIGHT
2720
20-Jul-2023
15:04
linh
pham



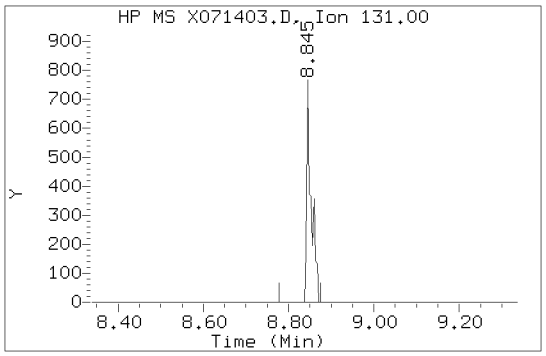
BEFORE

MASS
131
AREA
565
HEIGHT
767
20-Jul-2023
15:04
linh
pham



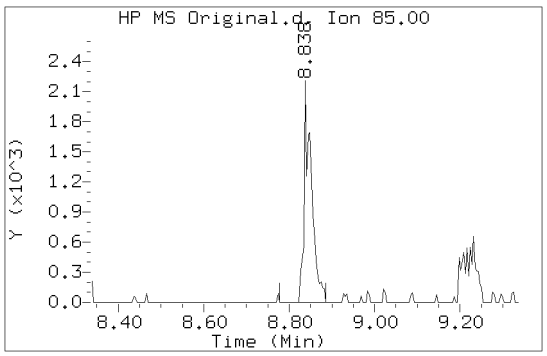
AFTER

MASS
131
AREA
565
HEIGHT
767
20-Jul-2023
15:04
linh
pham



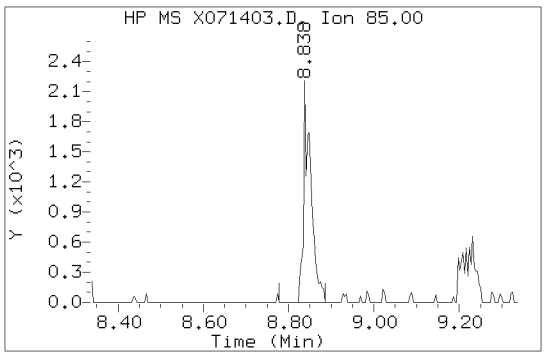
BEFORE

MASS
85
AREA
2735
HEIGHT
2209
20-Jul-2023
15:04
linh
pham



AFTER

MASS
85
AREA
2735
HEIGHT
2209
20-Jul-2023
15:04
linh
pham

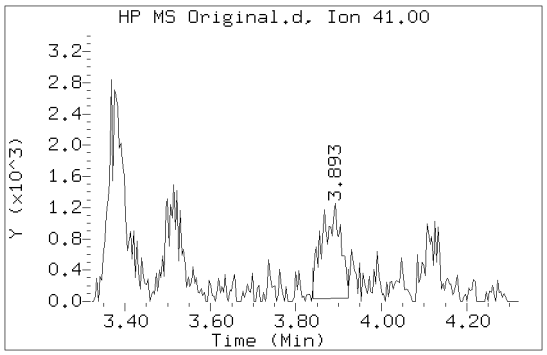


Methacrylonitrile (126-98-7)

Reason Code:

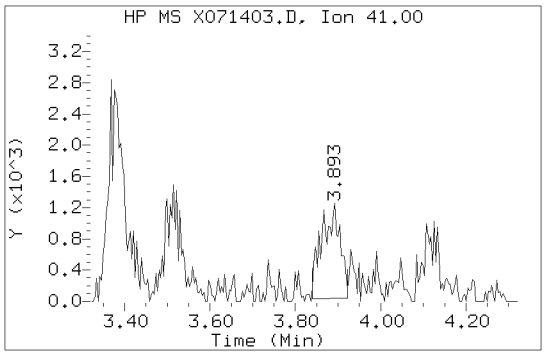
BEFORE

MASS
41
AREA
3622
HEIGHT
1212
20-Jul-2023
15:04
linh
pham



AFTER

MASS
41
AREA
3622
HEIGHT
1212
20-Jul-2023
15:04
linh
pham



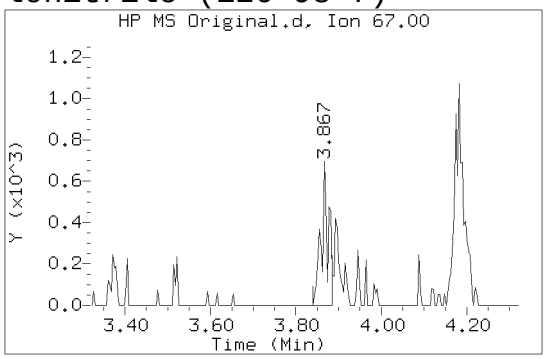
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230714.b\X071403.D
Inj Date : 14-JUL-2023 12:22
InstruID : voa6.i
LabSampID : VSTD000.5

Methacrylonitrile (126-98-7)

Reason Code:

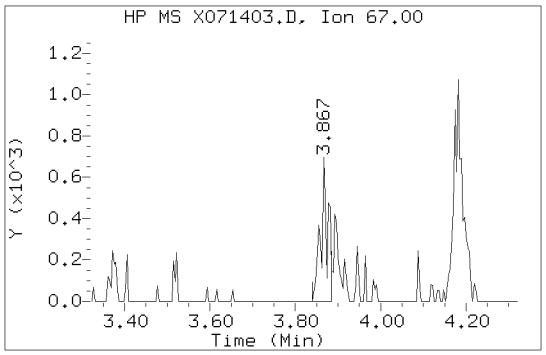
BEFORE

MASS
67
AREA
806
HEIGHT
697
20-Jul-2023
15:04
linh
pham



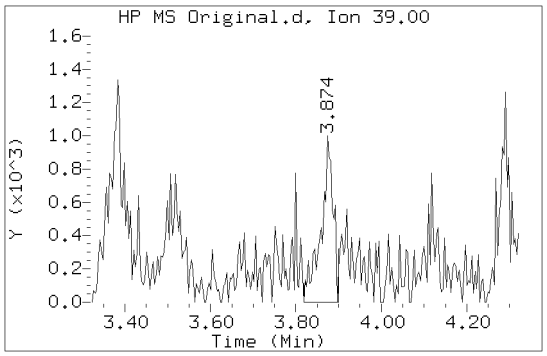
AFTER

MASS
67
AREA
806
HEIGHT
697
20-Jul-2023
15:04
linh
pham



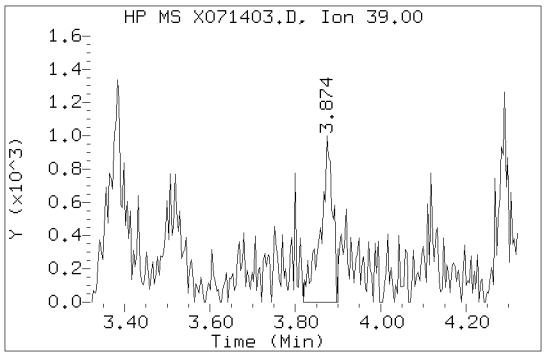
BEFORE

MASS
39
AREA
1986
HEIGHT
1000
20-Jul-2023
15:04
linh
pham



AFTER

MASS
39
AREA
1986
HEIGHT
1000
20-Jul-2023
15:04
linh
pham

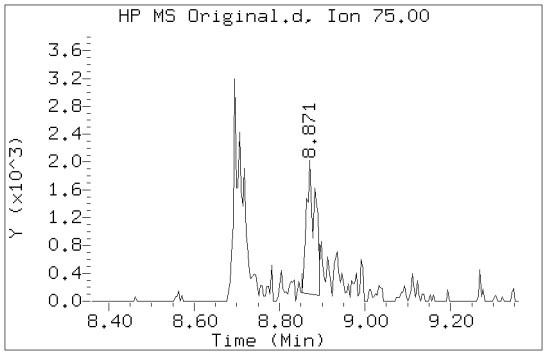


1,2,3-Trichloropropane (96-18-4)

Reason Code:

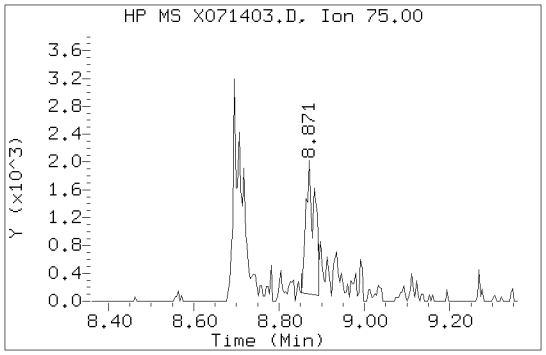
BEFORE

MASS
75
AREA
2737
HEIGHT
1922
20-Jul-2023
15:04
linh
pham



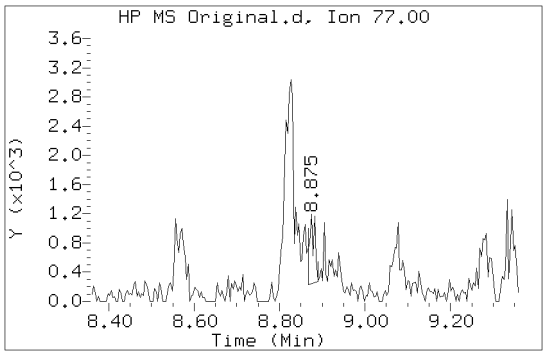
AFTER

MASS
75
AREA
2737
HEIGHT
1922
20-Jul-2023
15:04
linh
pham



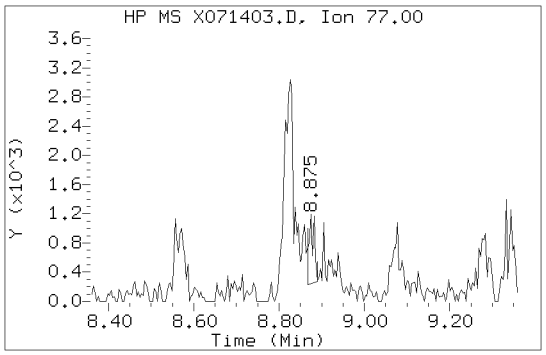
BEFORE

MASS
77
AREA
813
HEIGHT
948
20-Jul-2023
15:04
linh
pham



AFTER

MASS
77
AREA
813
HEIGHT
948
20-Jul-2023
15:04
linh
pham

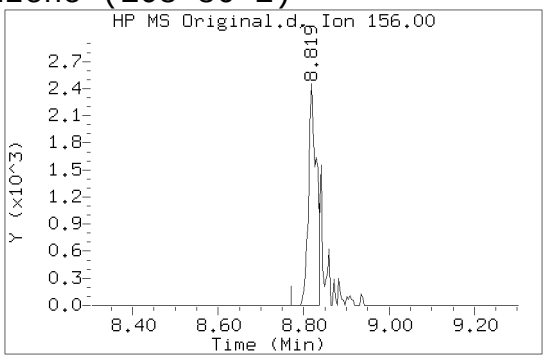


Data File : \\NAHSTWS005\Target\chem\voa6.i\X230714.b\X071403.D
Inj Date : 14-JUL-2023 12:22
InstruID : voa6.i
LabSampID : VSTD000.5

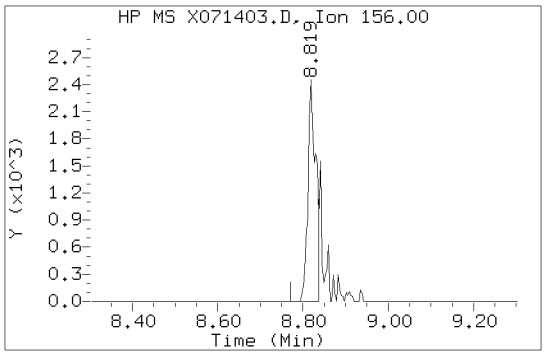
Bromobenzene (108-86-1)

Reason Code:

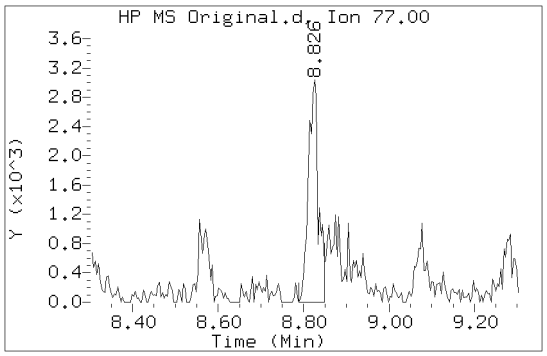
BEFORE
MASS
156
AREA
3201
HEIGHT
2455
20-Jul-2023
15:04
linh
pham



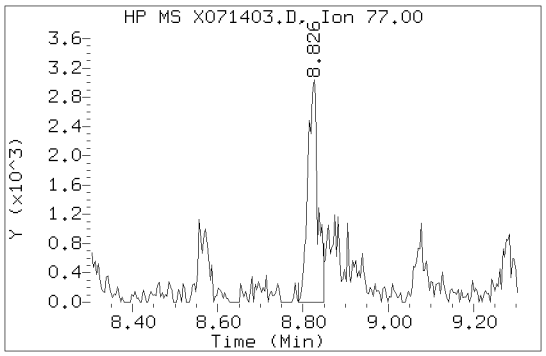
AFTER
MASS
156
AREA
3201
HEIGHT
2455
20-Jul-2023
15:04
linh
pham



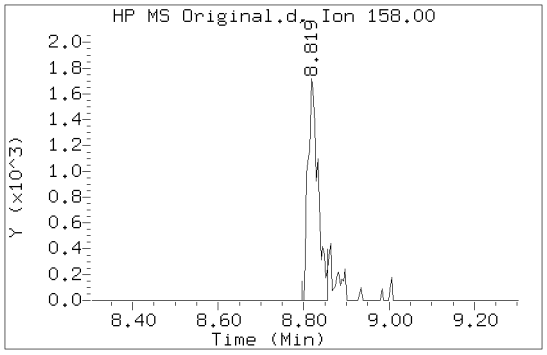
BEFORE
MASS
77
AREA
5003
HEIGHT
3037
20-Jul-2023
15:04
linh
pham



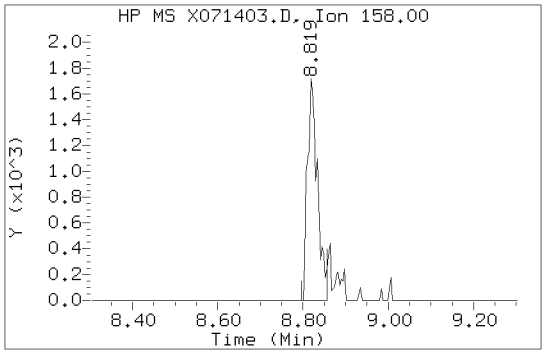
AFTER
MASS
77
AREA
5003
HEIGHT
3037
20-Jul-2023
15:04
linh
pham



BEFORE
MASS
158
AREA
2823
HEIGHT
1718
20-Jul-2023
15:04
linh
pham



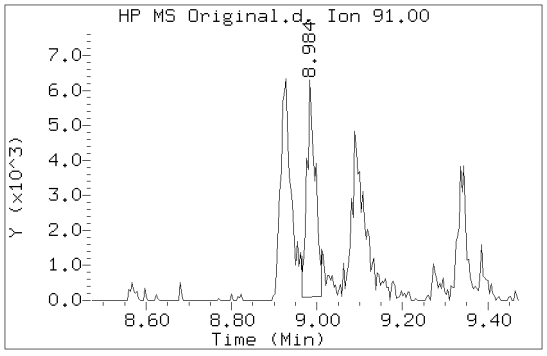
AFTER
MASS
158
AREA
2823
HEIGHT
1718
20-Jul-2023
15:04
linh
pham



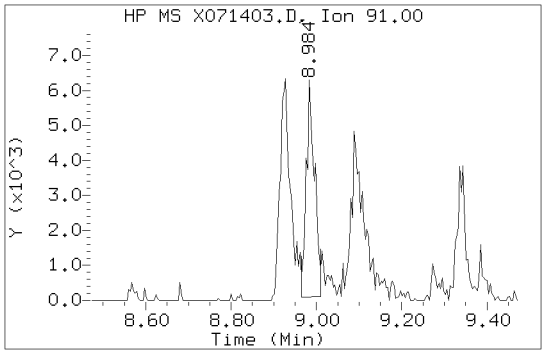
2-Chlorotoluene (95-49-8)

Reason Code:

BEFORE
MASS
91
AREA
8487
HEIGHT
6195
20-Jul-2023
15:04
linh
pham



AFTER
MASS
91
AREA
8487
HEIGHT
6195
20-Jul-2023
15:04
linh
pham



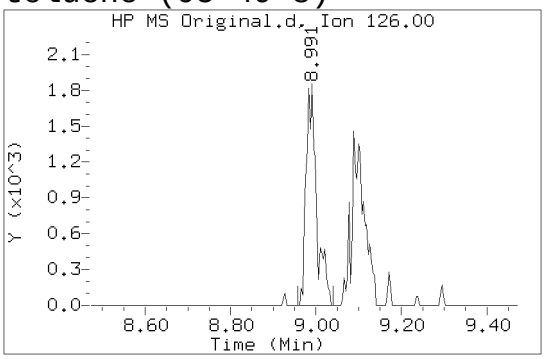
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230714.b\X071403.D
Inj Date : 14-JUL-2023 12:22
InstruID : voa6.i
LabSampID : VSTD000.5

2-Chlorotoluene (95-49-8)

Reason Code:

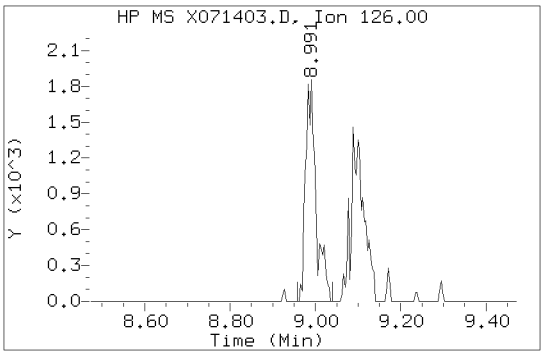
BEFORE

MASS
126
AREA
3192
HEIGHT
1856
20-Jul-2023
15:04
linh
pham



AFTER

MASS
126
AREA
3192
HEIGHT
1856
20-Jul-2023
15:04
linh
pham

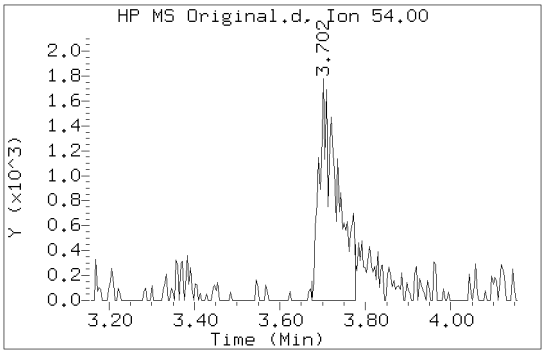


Propionitrile (107-12-0)

Reason Code:

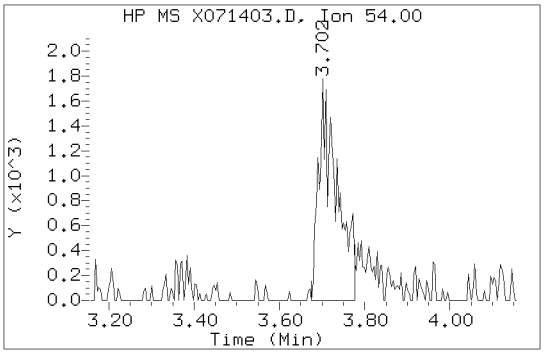
BEFORE

MASS
54
AREA
5231
HEIGHT
1779
20-Jul-2023
15:04
linh
pham



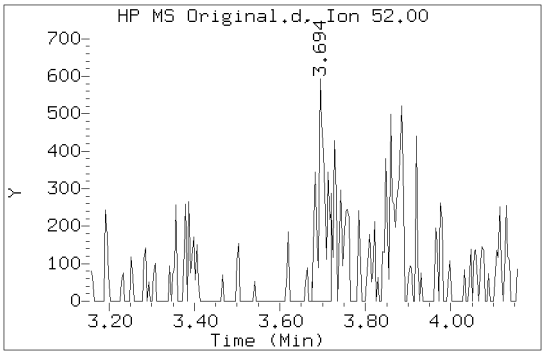
AFTER

MASS
54
AREA
5231
HEIGHT
1779
20-Jul-2023
15:04
linh
pham



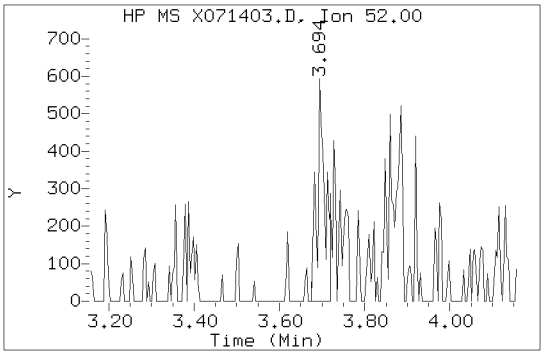
BEFORE

MASS
52
AREA
779
HEIGHT
593
20-Jul-2023
15:04
linh
pham



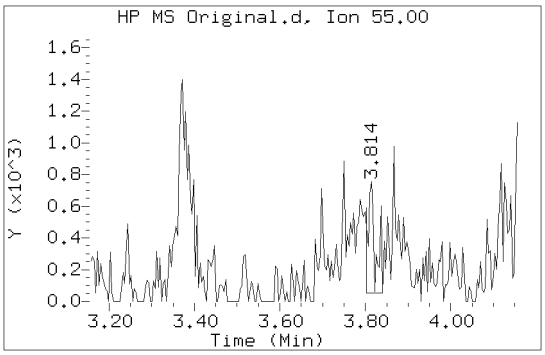
AFTER

MASS
52
AREA
779
HEIGHT
593
20-Jul-2023
15:04
linh
pham



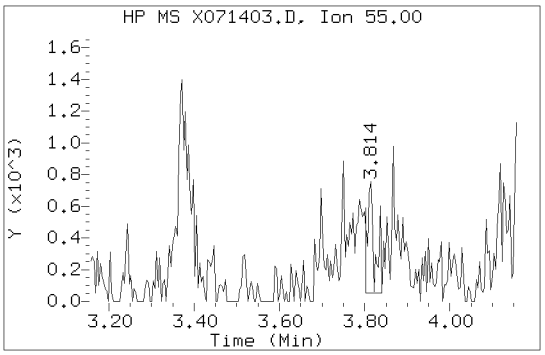
BEFORE

MASS
55
AREA
826
HEIGHT
704
20-Jul-2023
15:04
linh
pham



AFTER

MASS
55
AREA
826
HEIGHT
704
20-Jul-2023
15:04
linh
pham

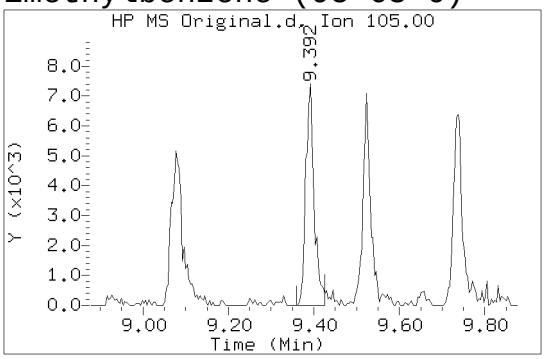


Data File : \\NAHSTWS005\Target\chem\voa6.i\X230714.b\X071403.D
Inj Date : 14-JUL-2023 12:22
InstruID : voa6.i
LabSampID : VSTD000.5

1,2,4-Trimethylbenzene (95-63-6)

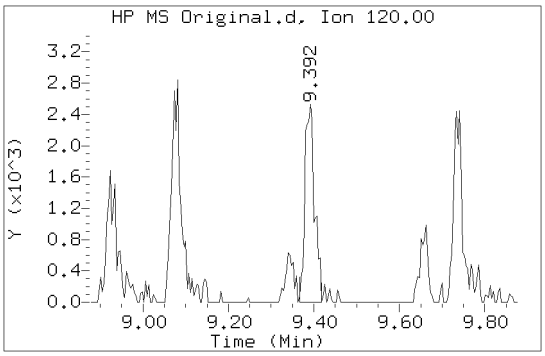
BEFORE

MASS
105
AREA
10172
HEIGHT
7414
20-Jul-2023
15:04
linh
pham



BEFORE

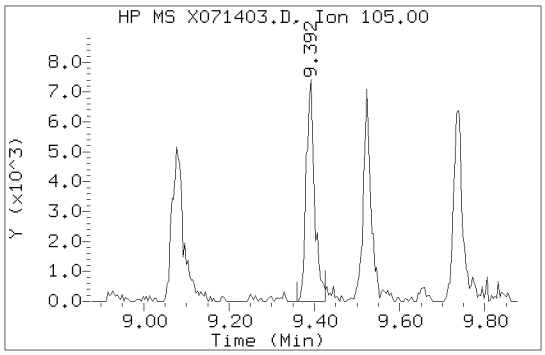
MASS
120
AREA
3980
HEIGHT
2527
20-Jul-2023
15:04
linh
pham



Reason Code:

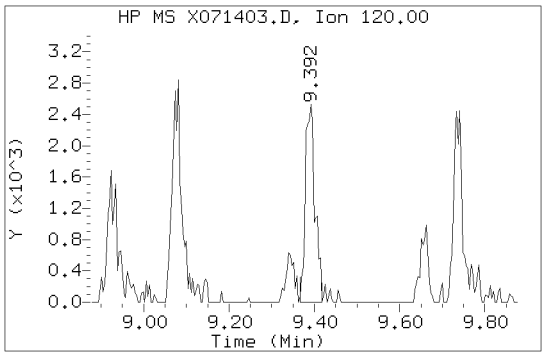
AFTER

MASS
105
AREA
10172
HEIGHT
7414
20-Jul-2023
15:04
linh
pham



AFTER

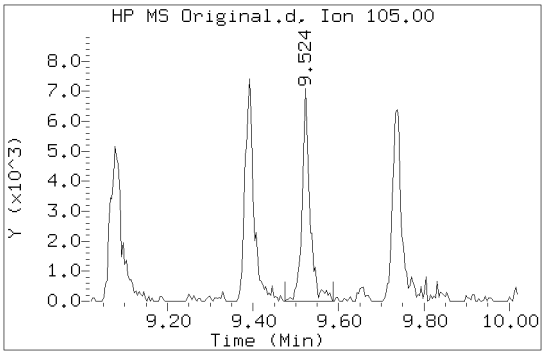
MASS
120
AREA
3980
HEIGHT
2527
20-Jul-2023
15:04
linh
pham



sec-Butylbenzene (135-98-8)

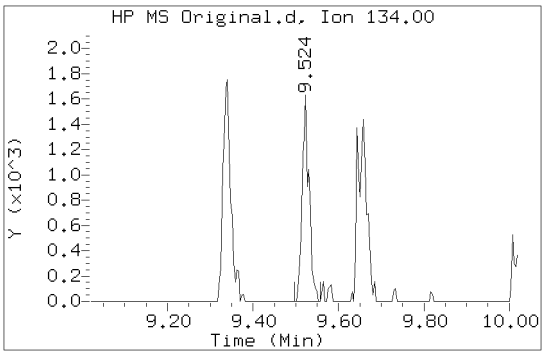
BEFORE

MASS
105
AREA
9247
HEIGHT
7103
20-Jul-2023
15:04
linh
pham



BEFORE

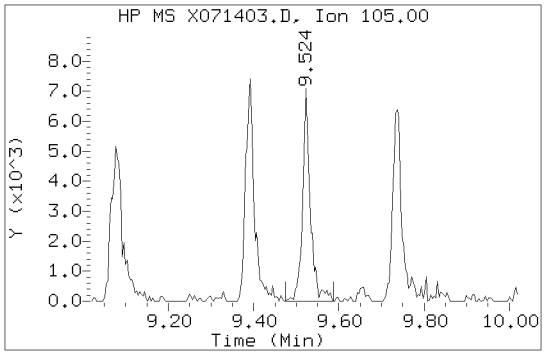
MASS
134
AREA
1861
HEIGHT
1631
20-Jul-2023
15:04
linh
pham



Reason Code:

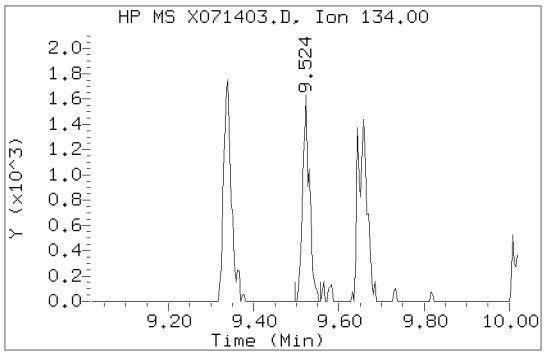
AFTER

MASS
105
AREA
9247
HEIGHT
7103
20-Jul-2023
15:04
linh
pham



AFTER

MASS
134
AREA
1861
HEIGHT
1631
20-Jul-2023
15:04
linh
pham



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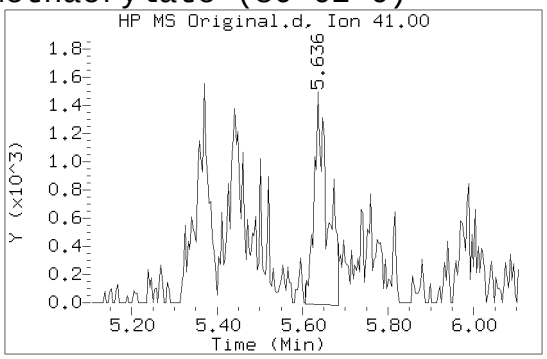
Inj Date : 14-JUL-2023 12:22
InstruID : voa6.i
LabSampID : VSTD000.5

Methyl Methacrylate (80-62-6)

Reason Code:

BEFORE
MASS
41
AREA
3261
HEIGHT
1505
20-Jul-2023
15:04
linh
pham



AFTER
MASS
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AREA
3261
HEIGHT
1505
20-Jul-2023
15:04
linh
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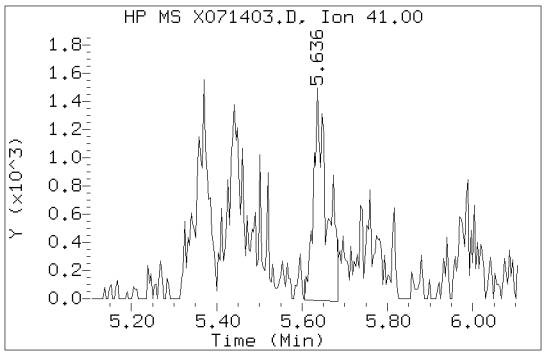

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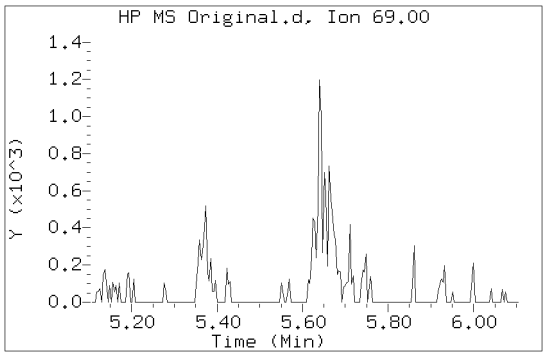
HEIGHT
0
20-Jul-2023
15:04
linh
pham



AFTER
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15:04
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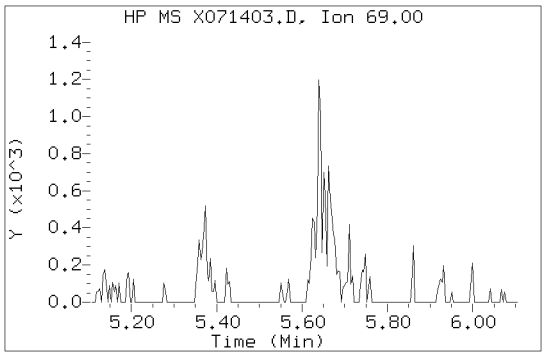

BEFORE
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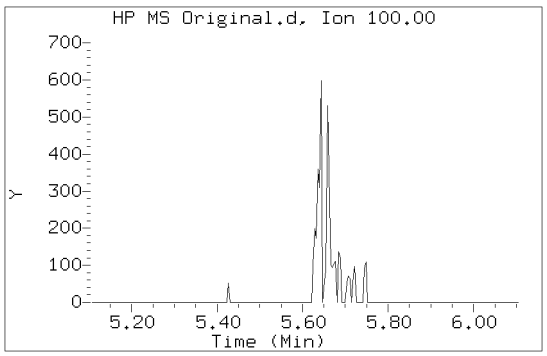
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham



AFTER
MASS
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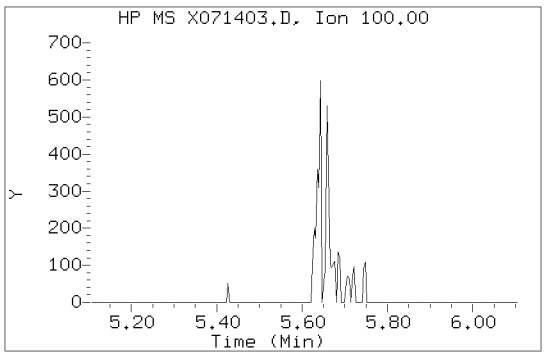
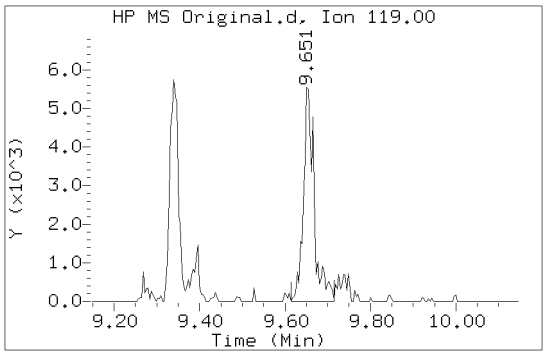
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham



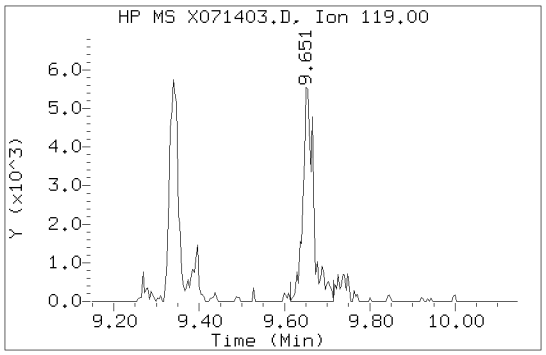
p-Isopropyltoluene (99-87-6)

Reason Code:

BEFORE
MASS
119
AREA
9771
HEIGHT
5556
20-Jul-2023
15:04
linh
pham



AFTER
MASS
119
AREA
9771
HEIGHT
5556
20-Jul-2023
15:04
linh
pham



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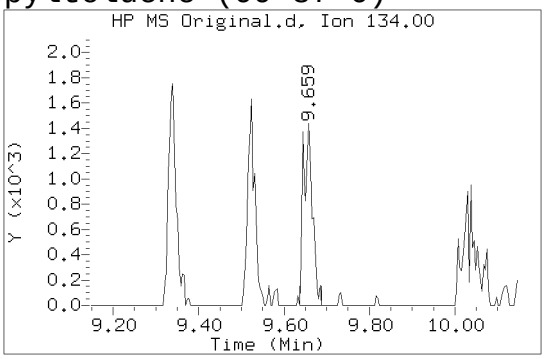
Inj Date : 14-JUL-2023 12:22
InstruID : voa6.i
LabSampID : VSTD000.5

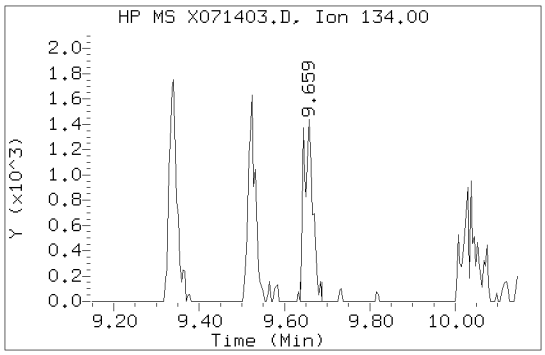
p-Isopropyltoluene (99-87-6)

BEFORE
MASS
134
AREA
2131
HEIGHT
1438
20-Jul-2023
15:04
linh
pham



Reason Code:

AFTER
MASS
134
AREA
2131
HEIGHT
1438
20-Jul-2023
15:04
linh
pham



BEFORE
MASS
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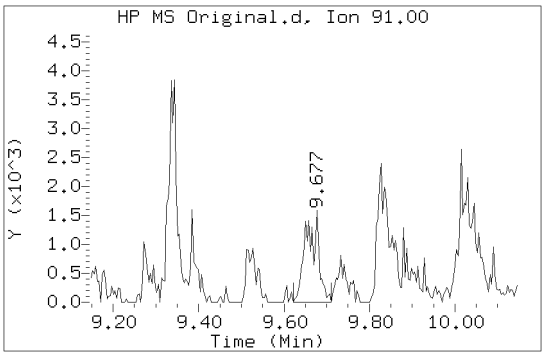
AREA
3352
HEIGHT
1591
20-Jul-2023
15:04
linh
pham



AFTER
MASS
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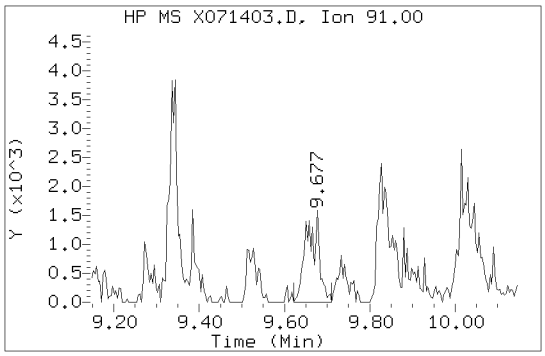
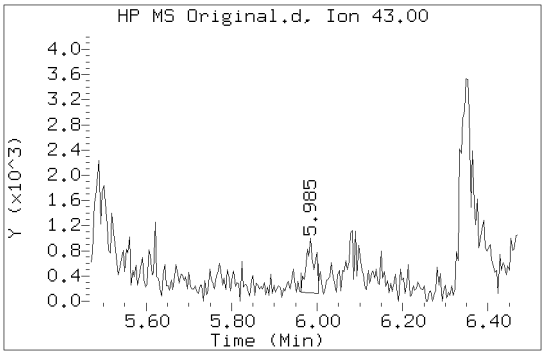
AREA
3352
HEIGHT
1591
20-Jul-2023
15:04
linh
pham



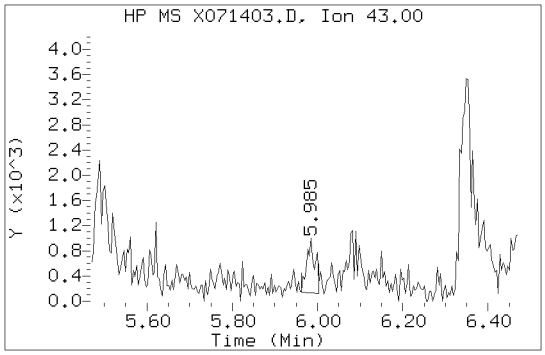
2-Nitropropane (79-46-9)

BEFORE
MASS
43
AREA
1174
HEIGHT
872
20-Jul-2023
15:04
linh
pham

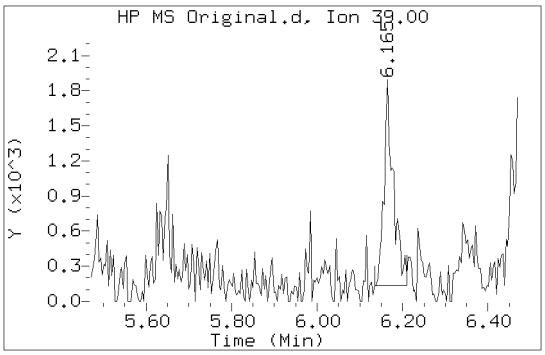


Reason Code:

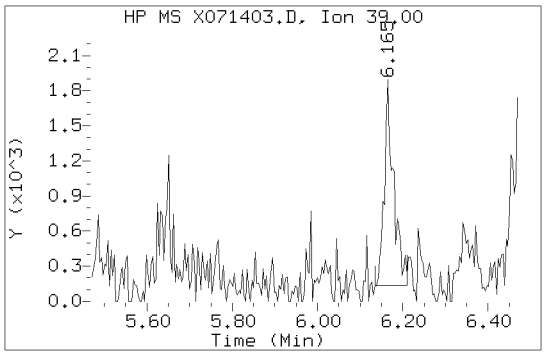
AFTER
MASS
43
AREA
1174
HEIGHT
872
20-Jul-2023
15:04
linh
pham



BEFORE
MASS
39
AREA
2649
HEIGHT
1759
20-Jul-2023
15:04
linh
pham



AFTER
MASS
39
AREA
2649
HEIGHT
1759
20-Jul-2023
15:04
linh
pham



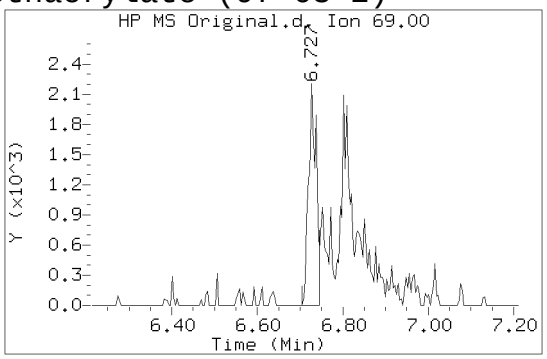
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230714.b\X071403.D
Inj Date : 14-JUL-2023 12:22
InstruID : voa6.i
LabSampID : VSTD000.5

Ethyl Methacrylate (97-63-2)

Reason Code:

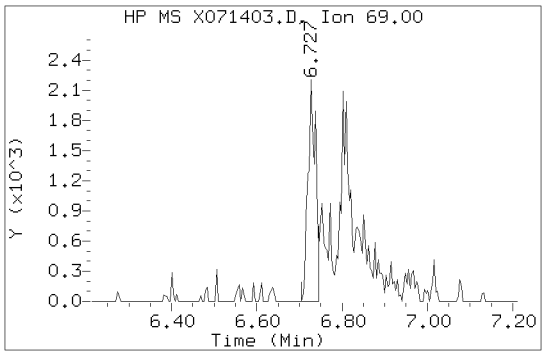
BEFORE

MASS
69
AREA
2780
HEIGHT
2206
20-Jul-2023
15:04
linh
pham



AFTER

MASS
69
AREA
2780
HEIGHT
2206
20-Jul-2023
15:04
linh
pham



BEFORE

MASS
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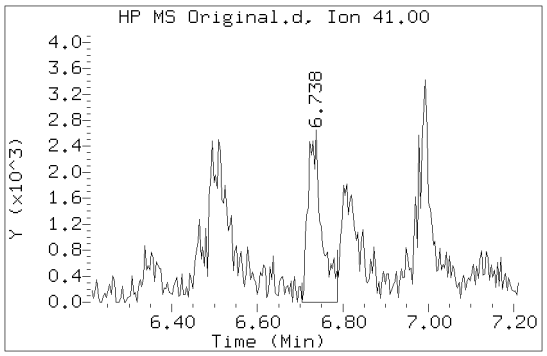
AREA
5900
HEIGHT
2651
20-Jul-2023
15:04
linh
pham



AFTER

MASS
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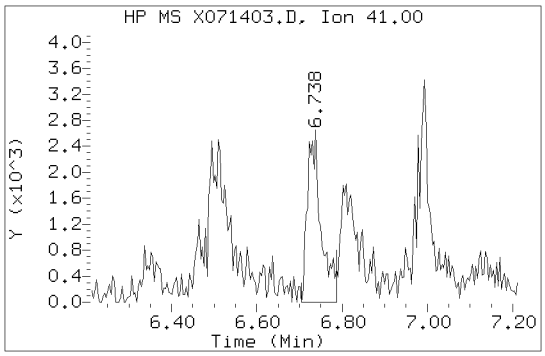
AREA
5900
HEIGHT
2651
20-Jul-2023
15:04
linh
pham

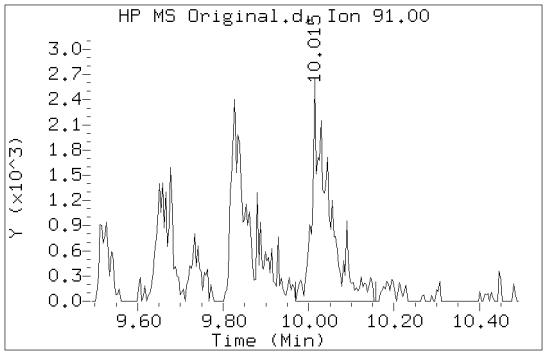


n-Butylbenzene (104-51-8)

Reason Code:

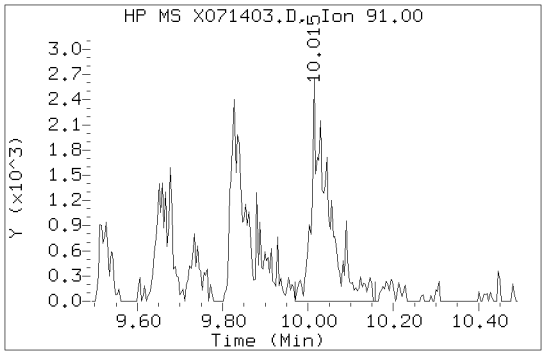
BEFORE

MASS
91
AREA
7141
HEIGHT
2647
20-Jul-2023
15:04
linh
pham



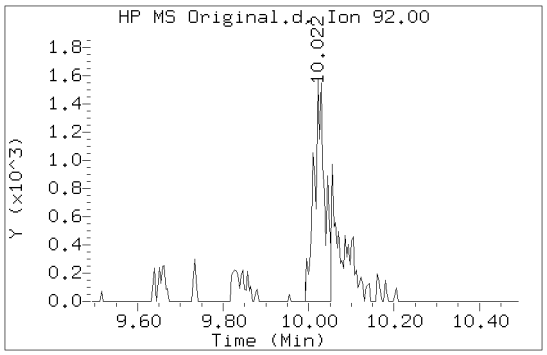
AFTER

MASS
91
AREA
7141
HEIGHT
2647
20-Jul-2023
15:04
linh
pham



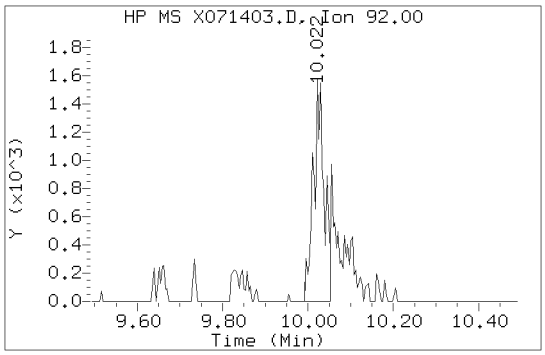
BEFORE

MASS
92
AREA
2733
HEIGHT
1571
20-Jul-2023
15:04
linh
pham



AFTER

MASS
92
AREA
2733
HEIGHT
1571
20-Jul-2023
15:04
linh
pham



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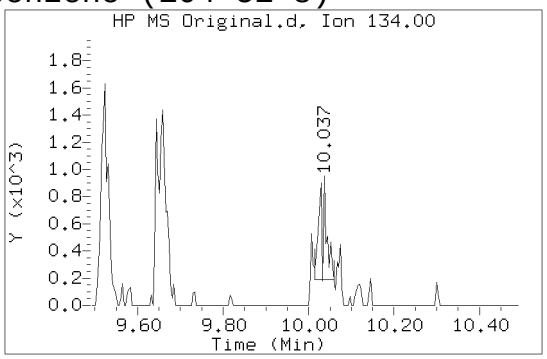
Inj Date : 14-JUL-2023 12:22
InstruID : voa6.i
LabSampID : VSTD000.5

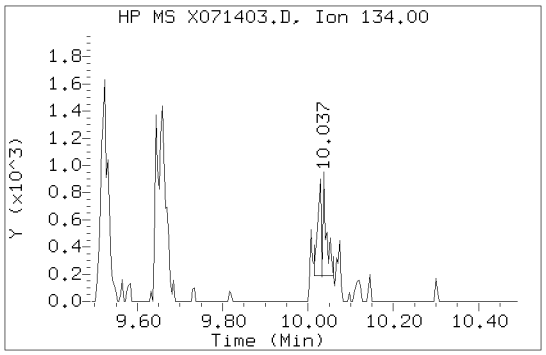
n-Butylbenzene (104-51-8)

Reason Code:

BEFORE
MASS
134
AREA
825
HEIGHT
766
20-Jul-2023
15:04
linh
pham



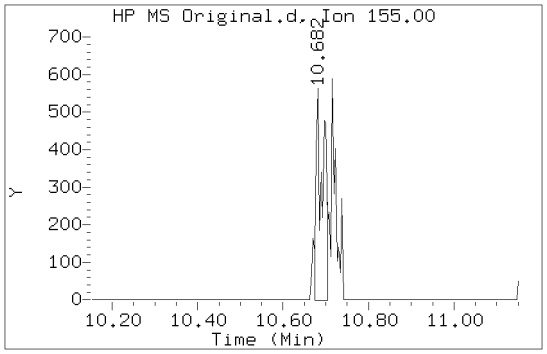
AFTER
MASS
134
AREA
825
HEIGHT
766
20-Jul-2023
15:04
linh
pham



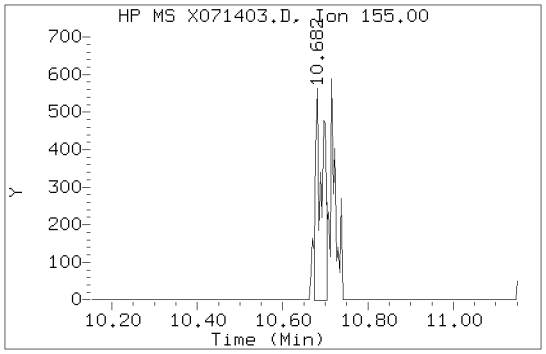
1,2-Dibromo-3-Chloropropane (96-12-8)

Reason Code:

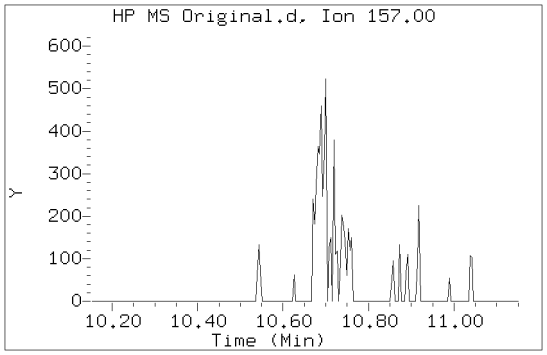
BEFORE
MASS
155
AREA
675
HEIGHT
564
20-Jul-2023
15:04
linh
pham



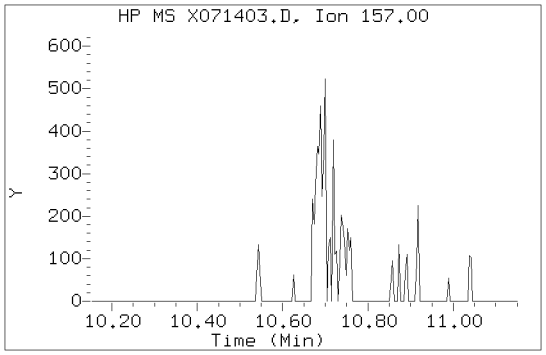
AFTER
MASS
155
AREA
675
HEIGHT
564
20-Jul-2023
15:04
linh
pham



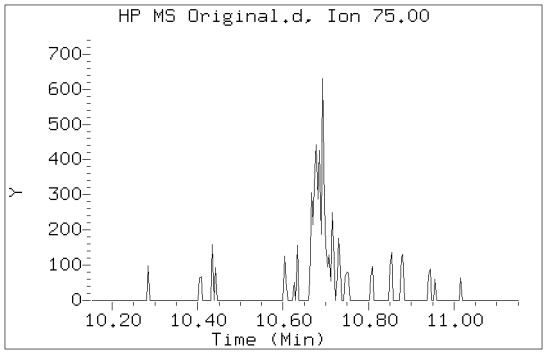
BEFORE
MASS
157
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham



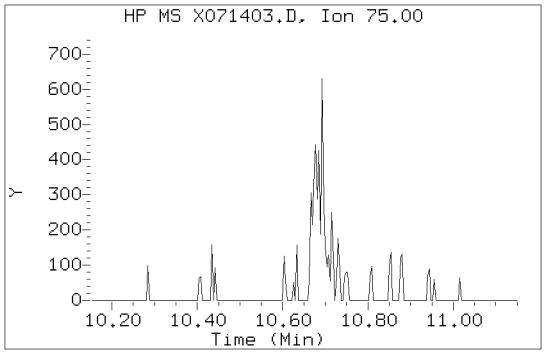
AFTER
MASS
157
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham



BEFORE
MASS
75
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham



AFTER
MASS
75
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham



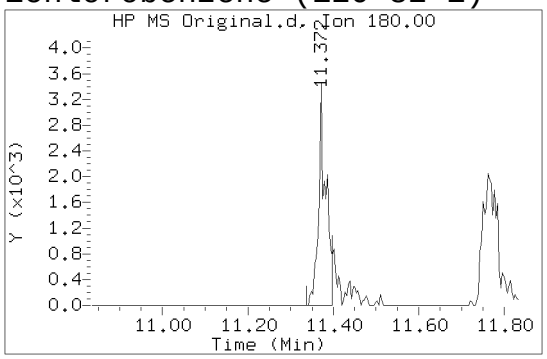
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230714.b\X071403.D
Inj Date : 14-JUL-2023 12:22
InstruID : voa6.i
LabSampID : VSTD000.5

1,2,4-Trichlorobenzene (120-82-1)

Reason Code:

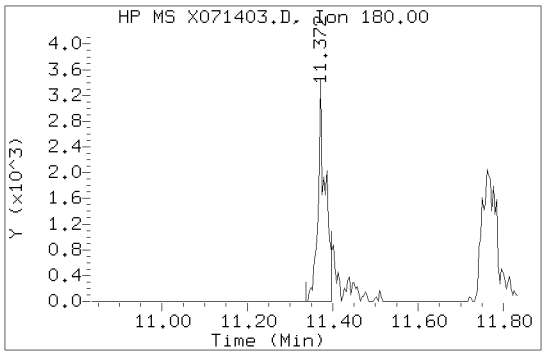
BEFORE

MASS
180
AREA
4099
HEIGHT
3445
20-Jul-2023
15:04
linh
pham



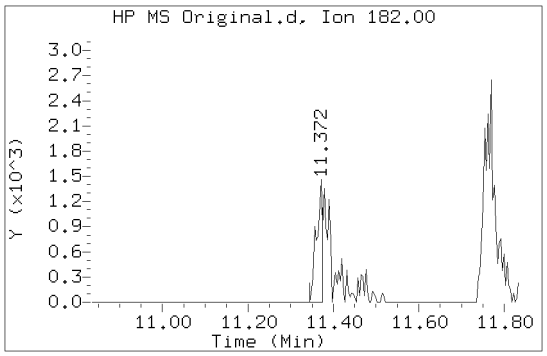
AFTER

MASS
180
AREA
4099
HEIGHT
3445
20-Jul-2023
15:04
linh
pham



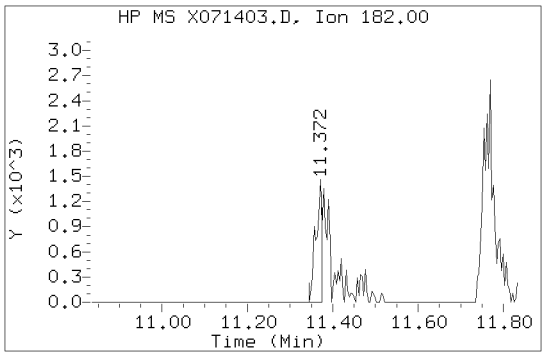
BEFORE

MASS
182
AREA
1413
HEIGHT
1466
20-Jul-2023
15:04
linh
pham



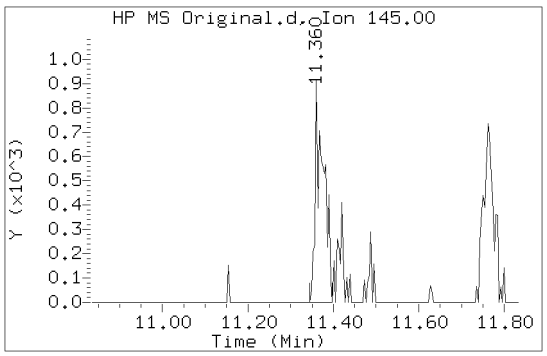
AFTER

MASS
182
AREA
1413
HEIGHT
1466
20-Jul-2023
15:04
linh
pham



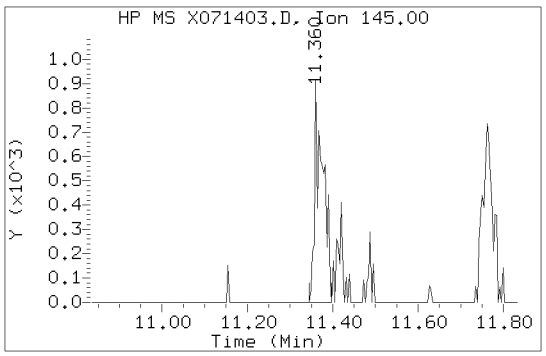
BEFORE

MASS
145
AREA
1239
HEIGHT
912
20-Jul-2023
15:04
linh
pham



AFTER

MASS
145
AREA
1239
HEIGHT
912
20-Jul-2023
15:04
linh
pham

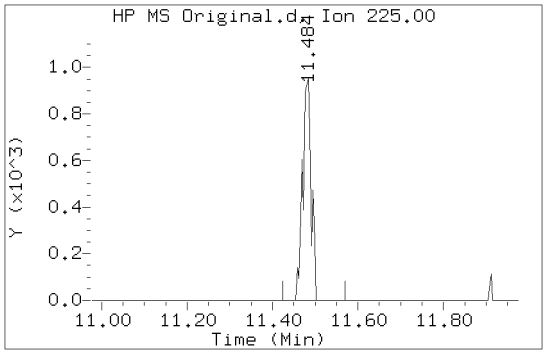


Hexachlorobutadiene (87-68-3)

Reason Code:

BEFORE

MASS
225
AREA
1357
HEIGHT
951
20-Jul-2023
15:04
linh
pham



AFTER

MASS
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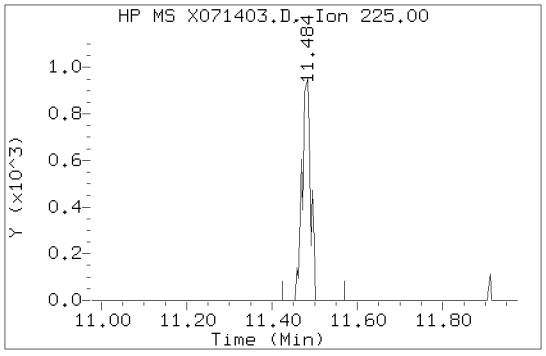
AREA
1357
HEIGHT
951
20-Jul-2023
15:04
linh
pham

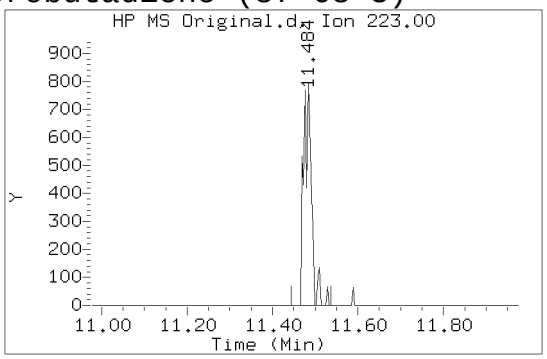


Data File : \\NAHSTWS005\Target\chem\voa6.i\X230714.b\X071403.D
Inj Date : 14-JUL-2023 12:22
InstruID : voa6.i
LabSampID : VSTD000.5

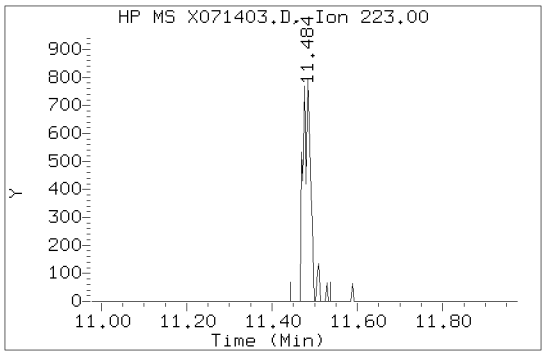
Hexachlorobutadiene (87-68-3)

Reason Code:

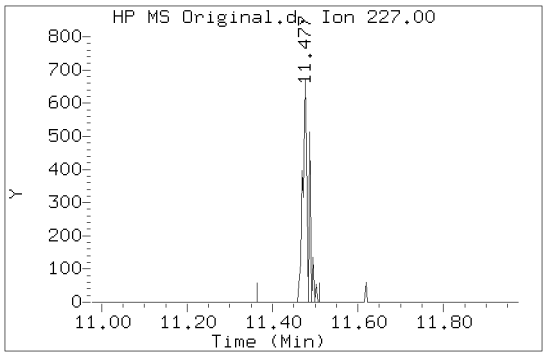
BEFORE
MASS
223
AREA
1025
HEIGHT
792
20-Jul-2023
15:04
linh
pham



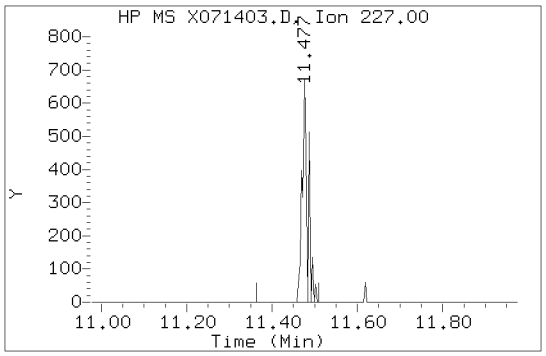
AFTER
MASS
223
AREA
1025
HEIGHT
792
20-Jul-2023
15:04
linh
pham



BEFORE
MASS
227
AREA
611
HEIGHT
670
20-Jul-2023
15:04
linh
pham



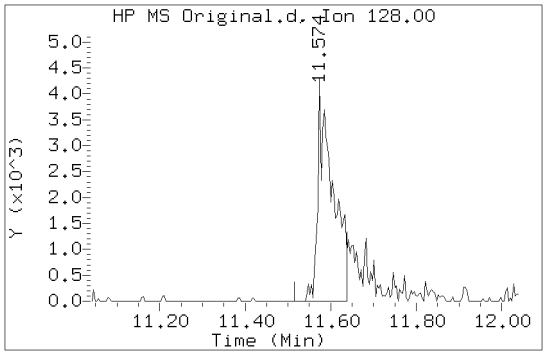
AFTER
MASS
227
AREA
611
HEIGHT
670
20-Jul-2023
15:04
linh
pham



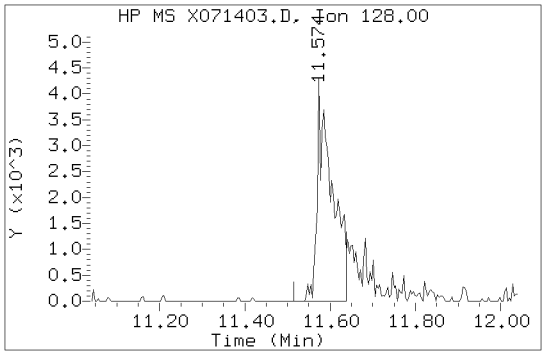
Naphthalene (91-20-3)

Reason Code:

BEFORE
MASS
128
AREA
10357
HEIGHT
4289
20-Jul-2023
15:04
linh
pham



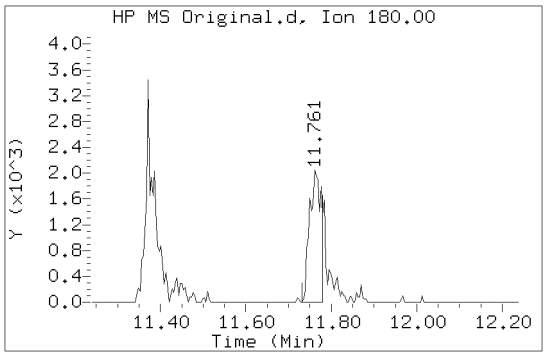
AFTER
MASS
128
AREA
10357
HEIGHT
4289
20-Jul-2023
15:04
linh
pham



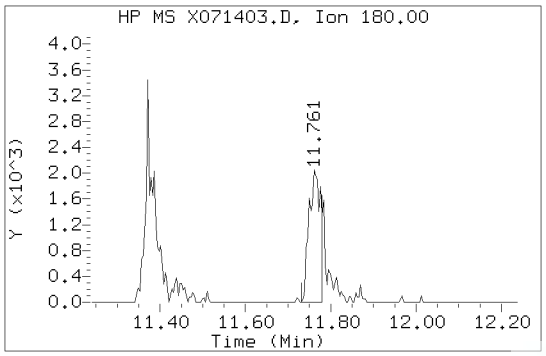
1,2,3-Trichlorobenzene (87-61-6)

Reason Code:

BEFORE
MASS
180
AREA
3845
HEIGHT
2053
20-Jul-2023
15:04
linh
pham



AFTER
MASS
180
AREA
3845
HEIGHT
2053
20-Jul-2023
15:04
linh
pham



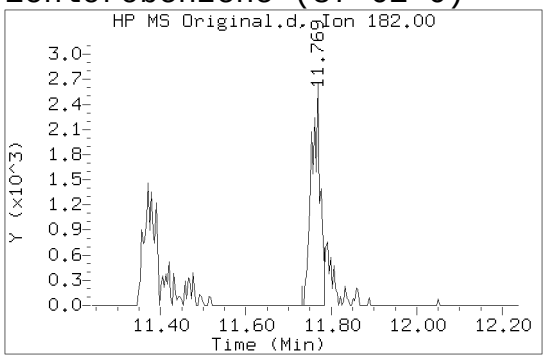
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230714.b\X071403.D
Inj Date : 14-JUL-2023 12:22
InstruID : voa6.i
LabSampID : VSTD000.5

1,2,3-Trichlorobenzene (87-61-6)

Reason Code:

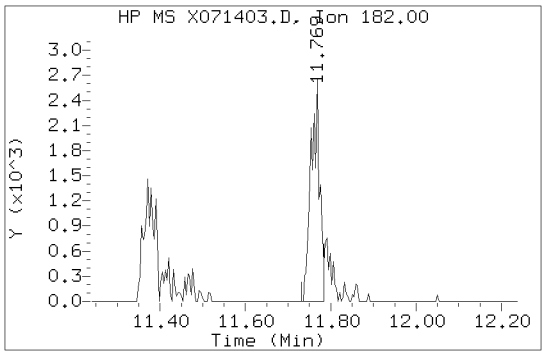
BEFORE

MASS
182
AREA
3757
HEIGHT
2648
20-Jul-2023
15:04
linh
pham



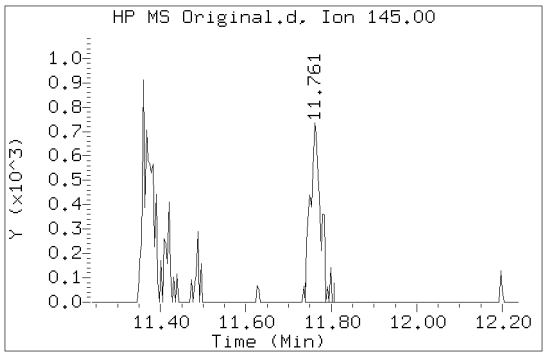
AFTER

MASS
182
AREA
3757
HEIGHT
2648
20-Jul-2023
15:04
linh
pham



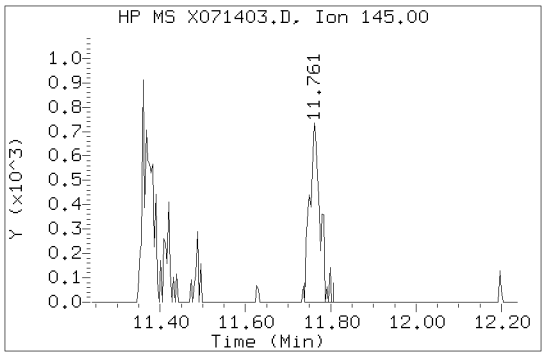
BEFORE

MASS
145
AREA
1239
HEIGHT
737
20-Jul-2023
15:04
linh
pham



AFTER

MASS
145
AREA
1239
HEIGHT
737
20-Jul-2023
15:04
linh
pham

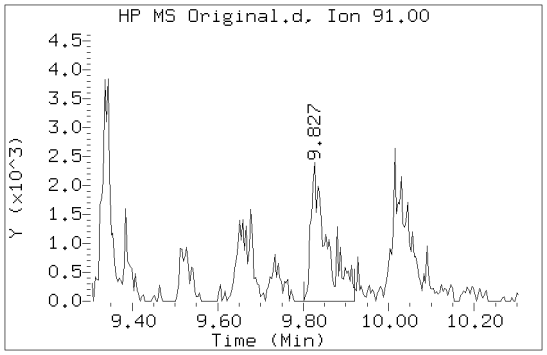


Benzyl Chloride (100-44-7)

Reason Code:

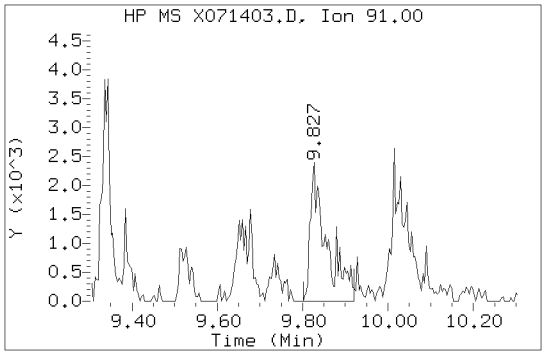
BEFORE

MASS
91
AREA
6245
HEIGHT
2401
20-Jul-2023
15:04
linh
pham



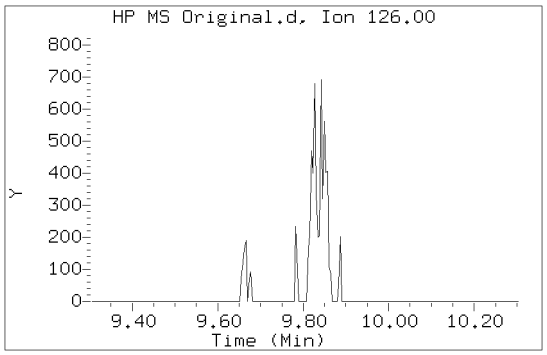
AFTER

MASS
91
AREA
6245
HEIGHT
2401
20-Jul-2023
15:04
linh
pham



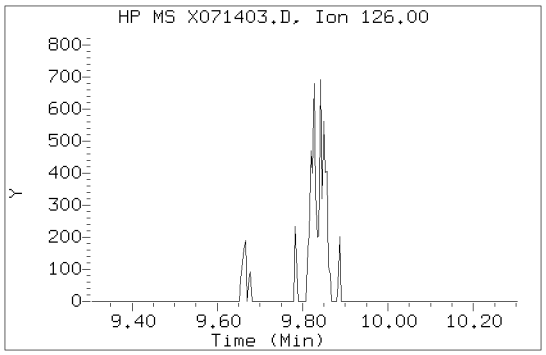
BEFORE

MASS
126
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham



AFTER

MASS
126
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham



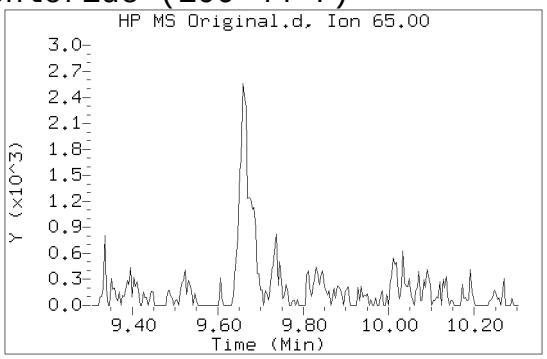
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230714.b\X071403.D
Inj Date : 14-JUL-2023 12:22
InstruID : voa6.i
LabSampID : VSTD000.5

Benzyl Chloride (100-44-7)

Reason Code:

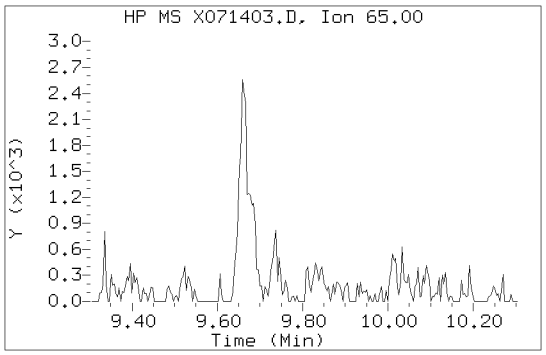
BEFORE

MASS
65
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham



AFTER

MASS
65
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham

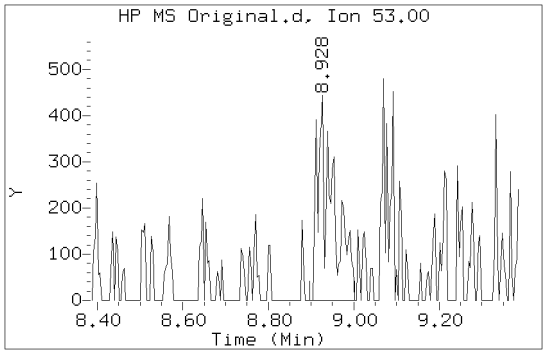


trans-1,4-Dichloro-2-butene (110-57-6)

Reason Code:

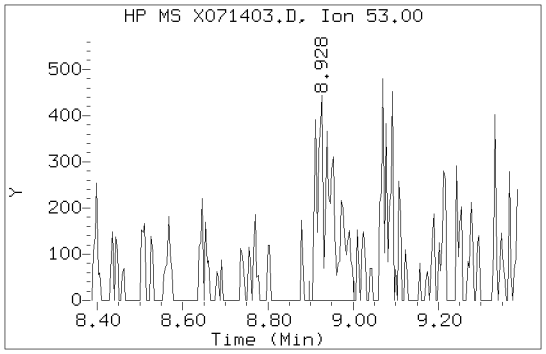
BEFORE

MASS
53
AREA
1124
HEIGHT
444
20-Jul-2023
15:04
linh
pham



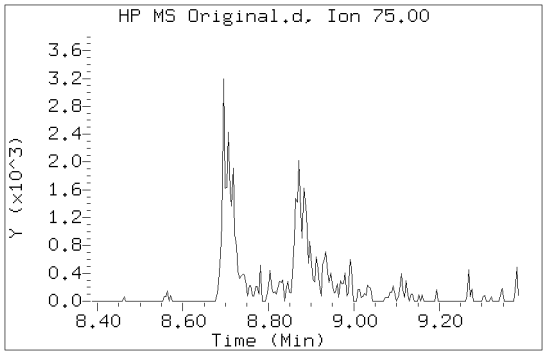
AFTER

MASS
53
AREA
1124
HEIGHT
444
20-Jul-2023
15:04
linh
pham



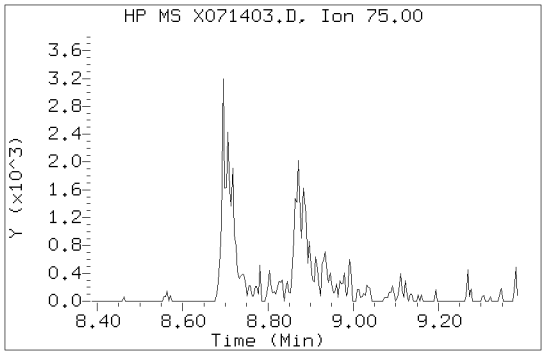
BEFORE

MASS
75
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham



AFTER

MASS
75
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham

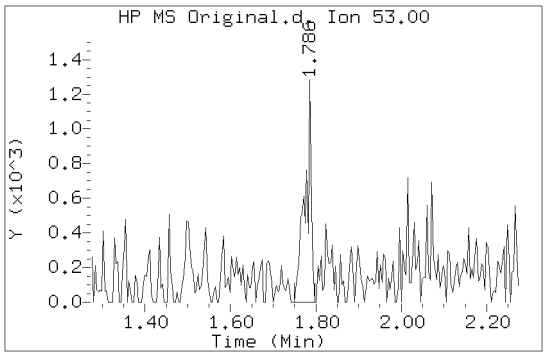


Chloroprene (126-99-8)

Reason Code:

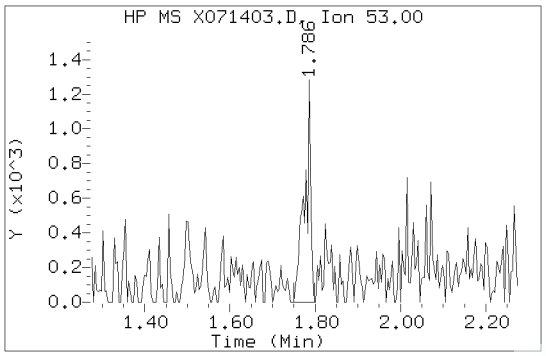
BEFORE

MASS
53
AREA
1292
HEIGHT
1283
20-Jul-2023
15:04
linh
pham



AFTER

MASS
53
AREA
1292
HEIGHT
1283
20-Jul-2023
15:04
linh
pham



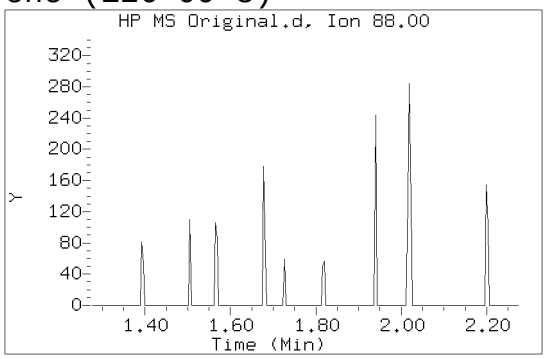
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230714.b\X071403.D
Inj Date : 14-JUL-2023 12:22
InstruID : voa6.i
LabSampID : VSTD000.5

Chloroprene (126-99-8)

Reason Code:

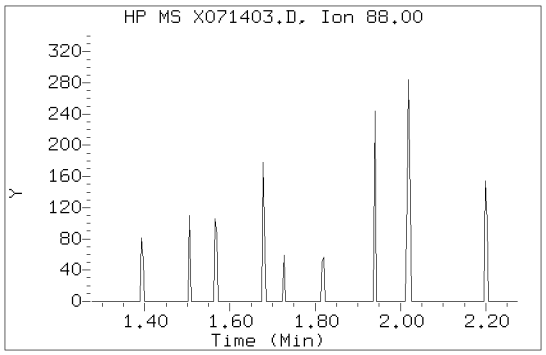
BEFORE

MASS
88
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham



AFTER

MASS
88
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham

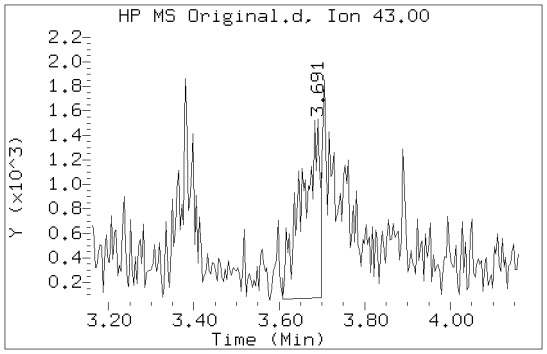


Ethyl Acetate (141-78-6)

Reason Code:

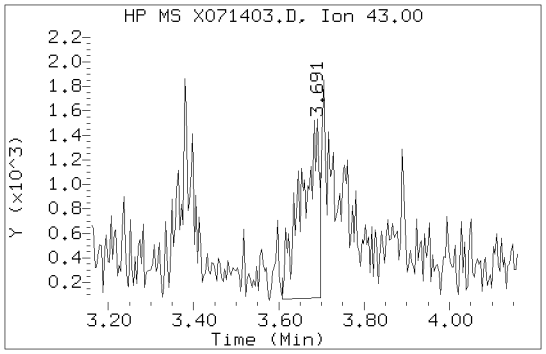
BEFORE

MASS
43
AREA
4291
HEIGHT
1463
20-Jul-2023
15:04
linh
pham



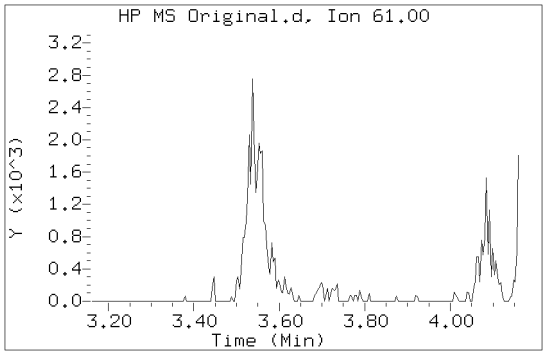
AFTER

MASS
43
AREA
4291
HEIGHT
1463
20-Jul-2023
15:04
linh
pham



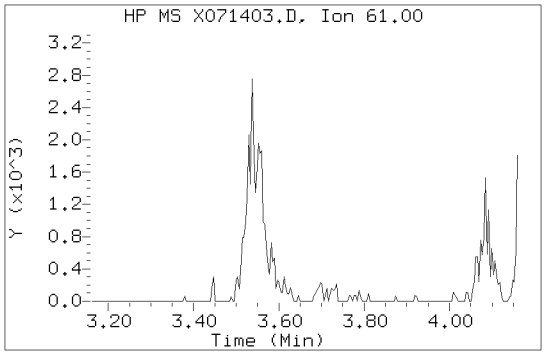
BEFORE

MASS
61
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham



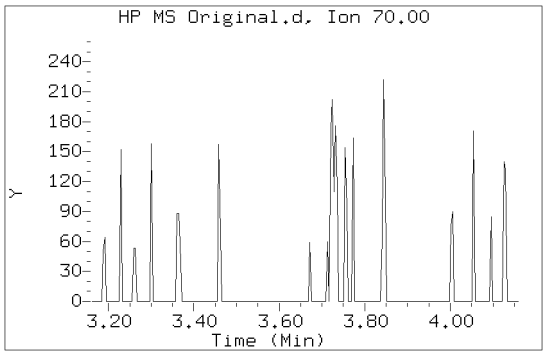
AFTER

MASS
61
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham



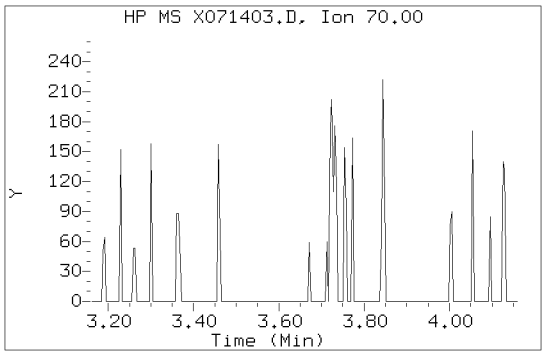
BEFORE

MASS
70
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham



AFTER

MASS
70
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham

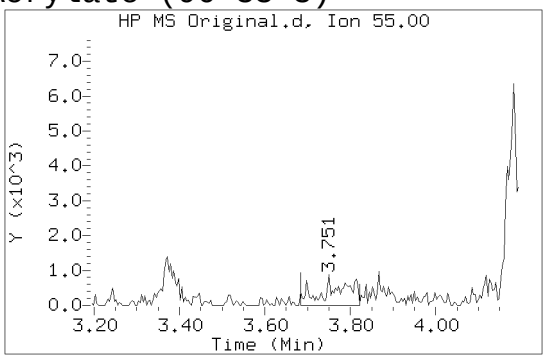


Data File : \\NAHSTWS005\Target\chem\voa6.i\X230714.b\X071403.D
Inj Date : 14-JUL-2023 12:22
InstruID : voa6.i
LabSampID : VSTD000.5

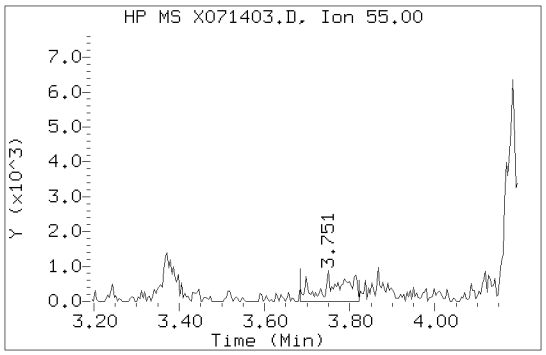
Methyl Acrylate (96-33-3)

Reason Code:

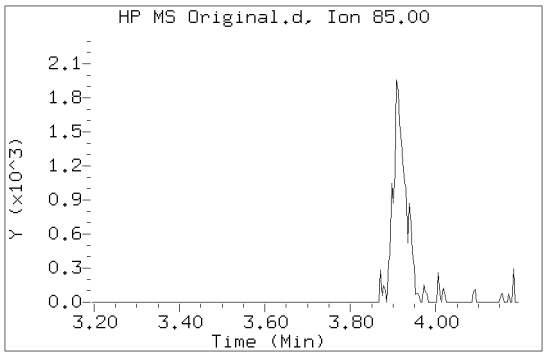
BEFORE
MASS
55
AREA
3365
HEIGHT
887
20-Jul-2023
15:04
linh
pham



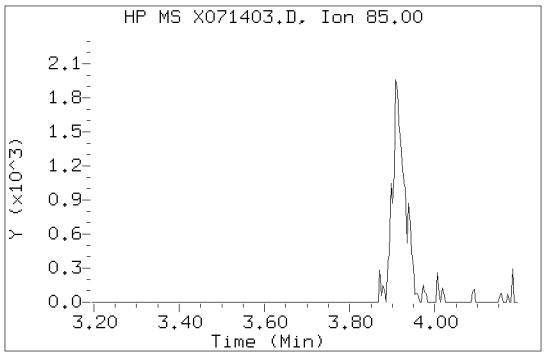
AFTER
MASS
55
AREA
3365
HEIGHT
887
20-Jul-2023
15:04
linh
pham



BEFORE
MASS
85
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham



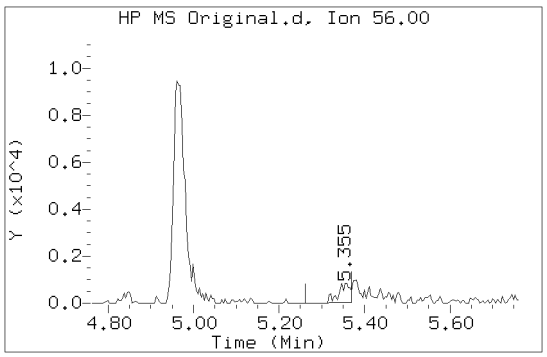
AFTER
MASS
85
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham



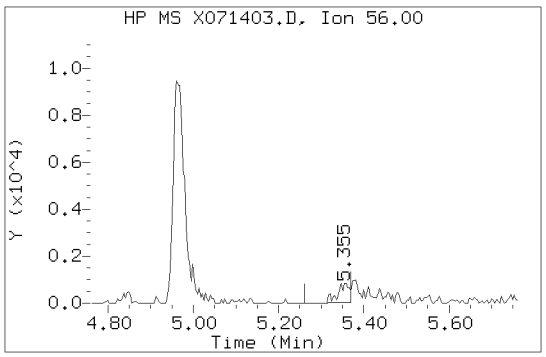
n-Butanol (71-36-3)

Reason Code:

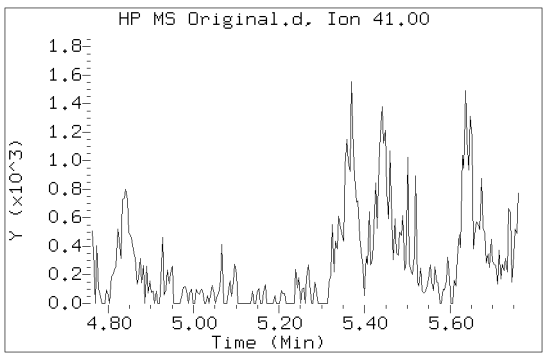
BEFORE
MASS
56
AREA
1626
HEIGHT
848
20-Jul-2023
15:04
linh
pham



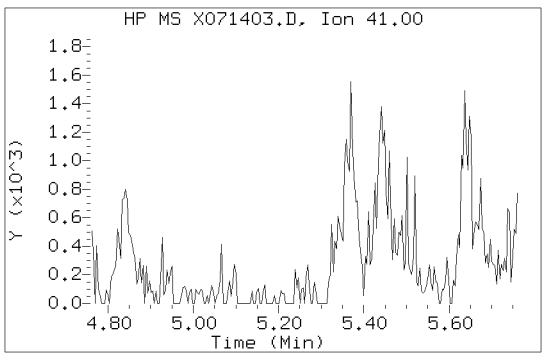
AFTER
MASS
56
AREA
1626
HEIGHT
848
20-Jul-2023
15:04
linh
pham



BEFORE
MASS
41
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham



AFTER
MASS
41
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham

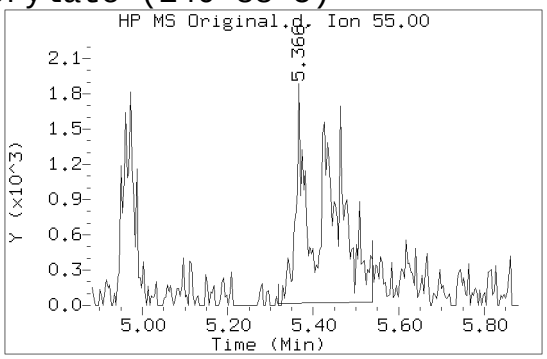


Data File : \\NAHSTWS005\Target\chem\voa6.i\X230714.b\X071403.D
Inj Date : 14-JUL-2023 12:22
InstruID : voa6.i
LabSampID : VSTD000.5

Ethyl Acrylate (140-88-5)

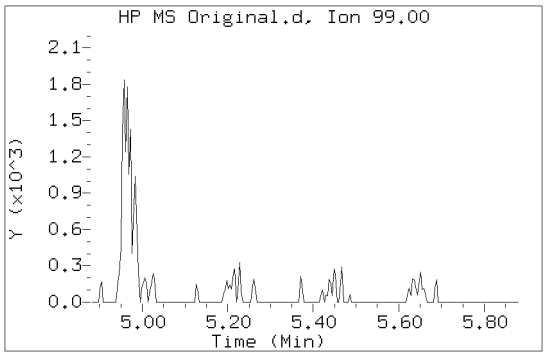
BEFORE

MASS
55
AREA
8232
HEIGHT
1867
20-Jul-2023
15:04
linh
pham



BEFORE

MASS
99
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham



Reason Code:

AFTER

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HEIGHT
1867
20-Jul-2023
15:04
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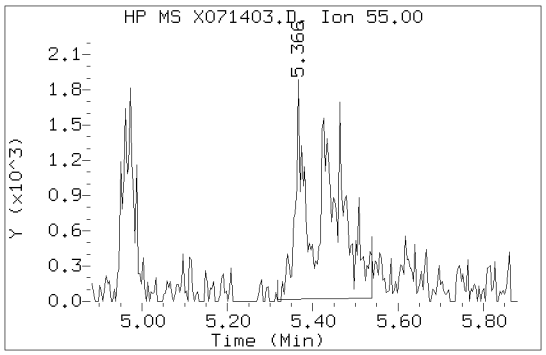

AFTER

MASS
99
AREA
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HEIGHT
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20-Jul-2023
15:04
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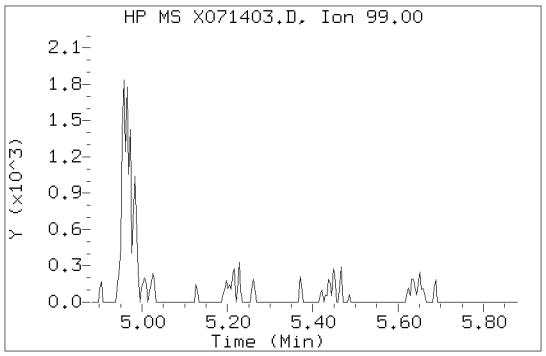
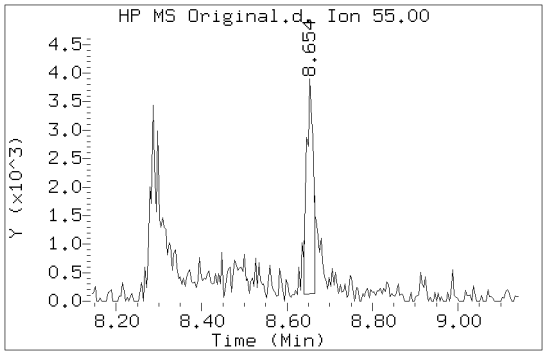


Cyclohexanone (108-94-1)

BEFORE

MASS
55
AREA
4174
HEIGHT
3766
20-Jul-2023
15:04
linh
pham



BEFORE

MASS
42
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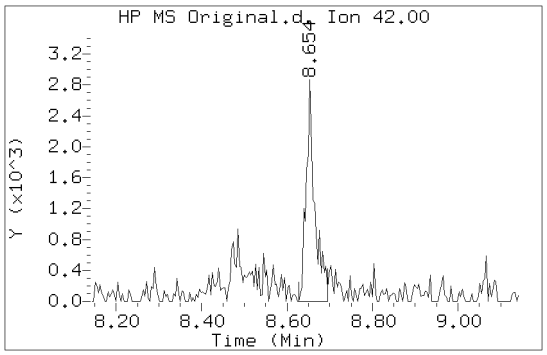
4022
HEIGHT
2868
20-Jul-2023
15:04
linh
pham



Reason Code:

AFTER

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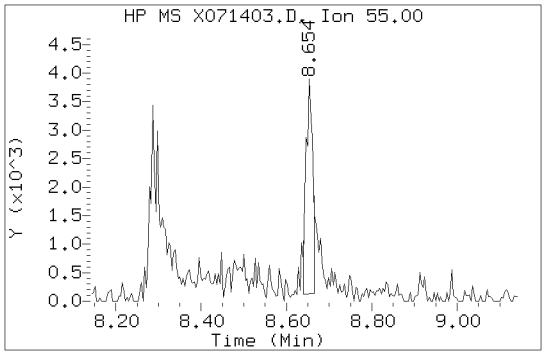
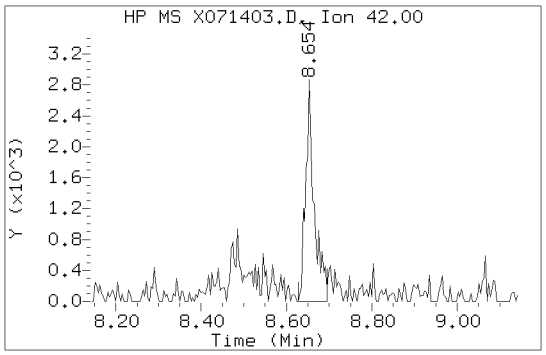
55
AREA
4174
HEIGHT
3766
20-Jul-2023
15:04
linh
pham



AFTER

MASS
42
AREA
4022
HEIGHT
2868
20-Jul-2023
15:04
linh
pham



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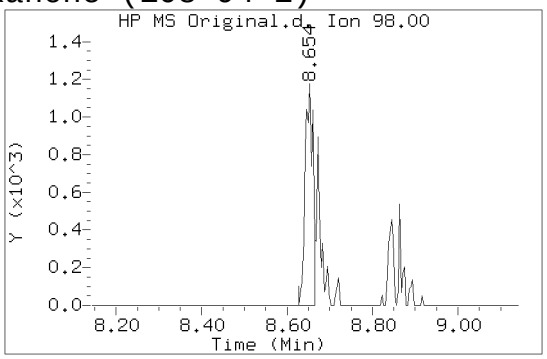
Inj Date : 14-JUL-2023 12:22
InstruID : voa6.i
LabSampID : VSTD000.5

Cyclohexanone (108-94-1)

Reason Code:

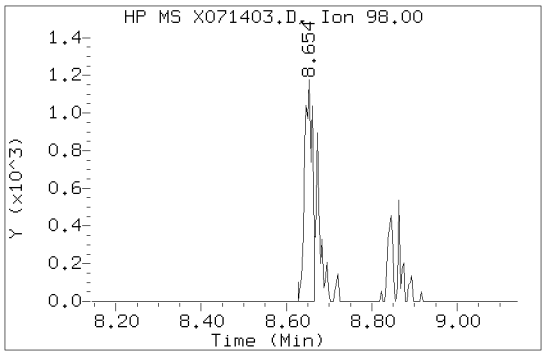
BEFORE

MASS
98
AREA
1506
HEIGHT
1177
20-Jul-2023
15:04
linh
pham



AFTER

MASS
98
AREA
1506
HEIGHT
1177
20-Jul-2023
15:04
linh
pham

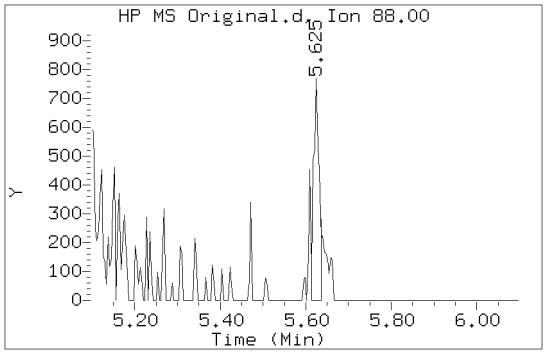


1,4-Dioxane ()

Reason Code:

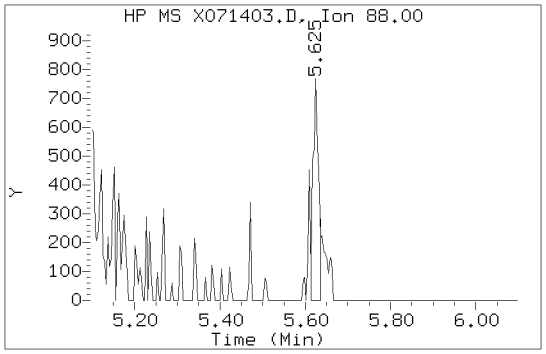
BEFORE

MASS
88
AREA
692
HEIGHT
769
20-Jul-2023
15:04
linh
pham



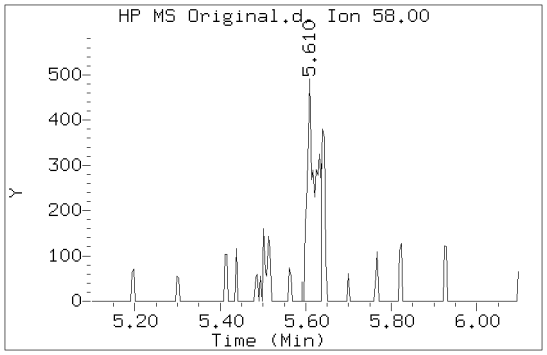
AFTER

MASS
88
AREA
692
HEIGHT
769
20-Jul-2023
15:04
linh
pham



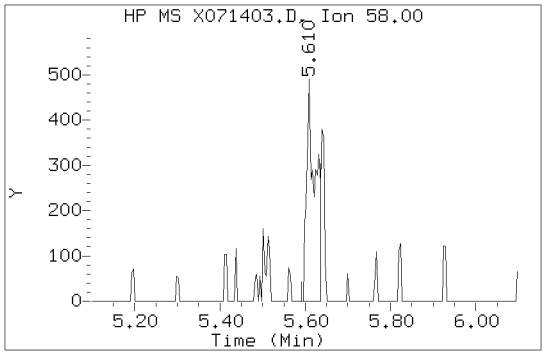
BEFORE

MASS
58
AREA
715
HEIGHT
491
20-Jul-2023
15:04
linh
pham



AFTER

MASS
58
AREA
715
HEIGHT
491
20-Jul-2023
15:04
linh
pham

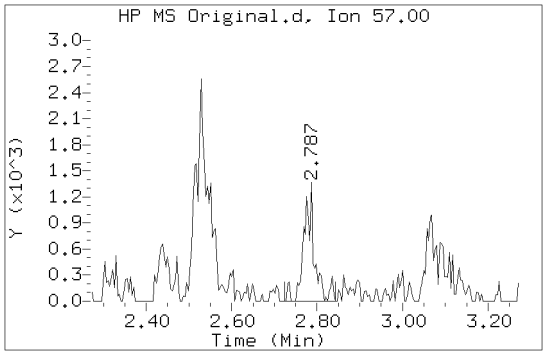


n-Hexane (110-54-3)

Reason Code:

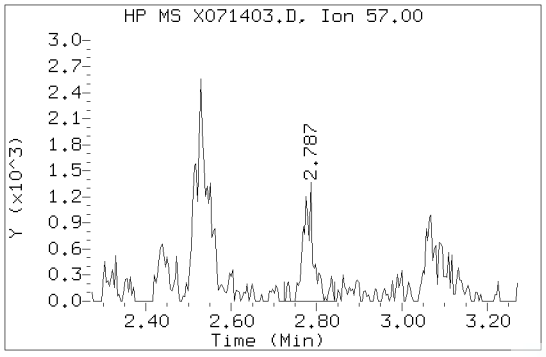
BEFORE

MASS
57
AREA
2320
HEIGHT
1372
20-Jul-2023
15:04
linh
pham



AFTER

MASS
57
AREA
2320
HEIGHT
1372
20-Jul-2023
15:04
linh
pham



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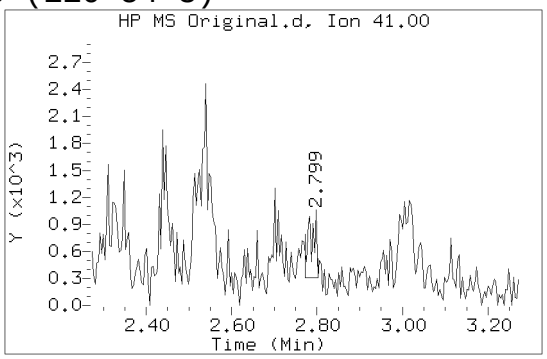
Inj Date : 14-JUL-2023 12:22
InstruID : voa6.i
LabSampID : VSTD000.5

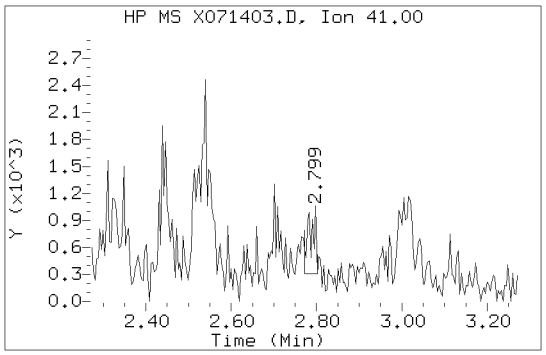
n-Hexane (110-54-3)

Reason Code:

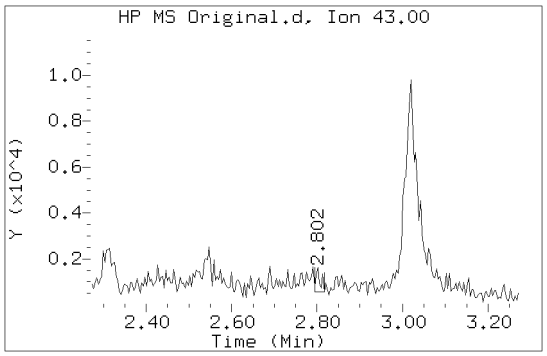
BEFORE
MASS
41
AREA
798
HEIGHT
755
20-Jul-2023
15:04
linh
pham



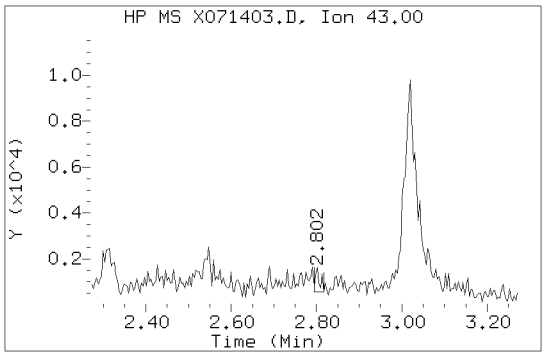
AFTER
MASS
41
AREA
798
HEIGHT
755
20-Jul-2023
15:04
linh
pham



BEFORE
MASS
43
AREA
753
HEIGHT
1069
20-Jul-2023
15:04
linh
pham



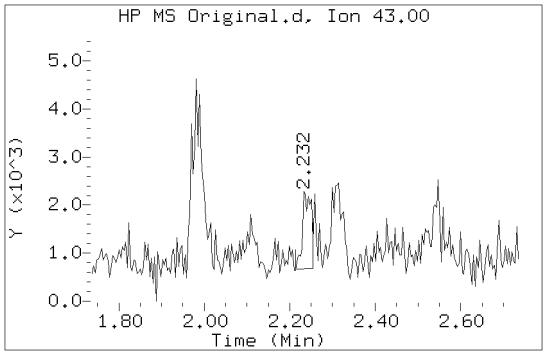
AFTER
MASS
43
AREA
753
HEIGHT
1069
20-Jul-2023
15:04
linh
pham



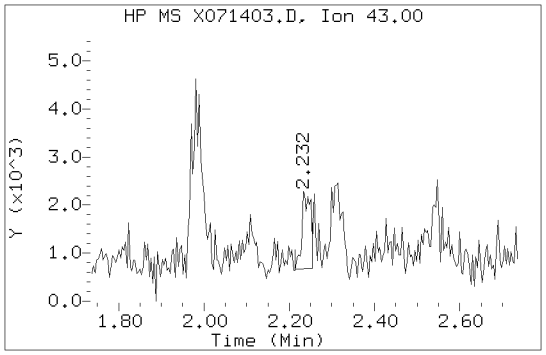
Methyl acetate (79-20-9)

Reason Code:

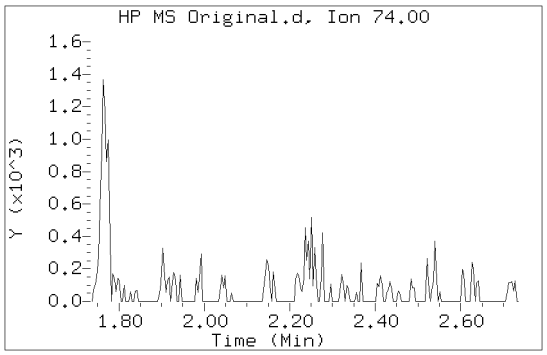
BEFORE
MASS
43
AREA
2344
HEIGHT
1617
20-Jul-2023
15:04
linh
pham



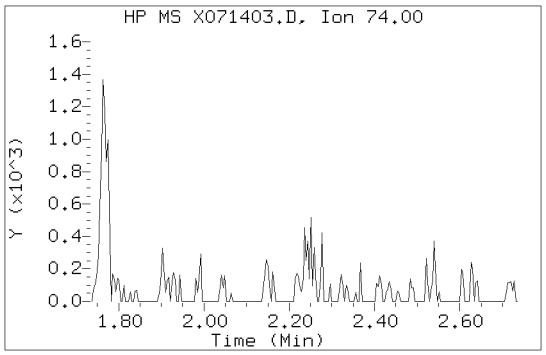
AFTER
MASS
43
AREA
2344
HEIGHT
1617
20-Jul-2023
15:04
linh
pham



BEFORE
MASS
74
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham



AFTER
MASS
74
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham



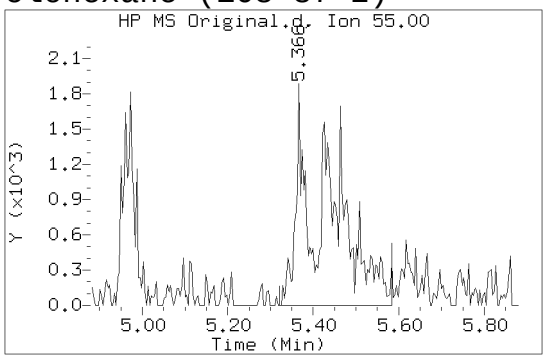
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230714.b\X071403.D
Inj Date : 14-JUL-2023 12:22
InstruID : voa6.i
LabSampID : VSTD000.5

Methylcyclohexane (108-87-2)

Reason Code:

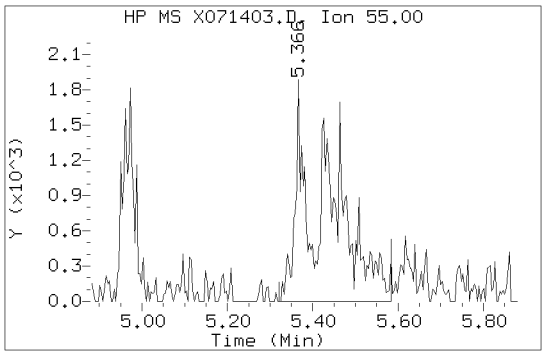
BEFORE

MASS
55
AREA
9168
HEIGHT
1886
20-Jul-2023
15:04
linh
pham



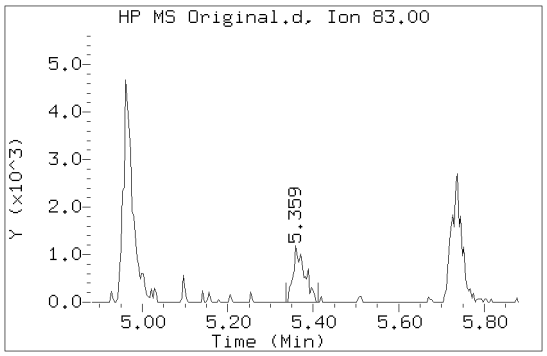
AFTER

MASS
55
AREA
9168
HEIGHT
1886
20-Jul-2023
15:04
linh
pham



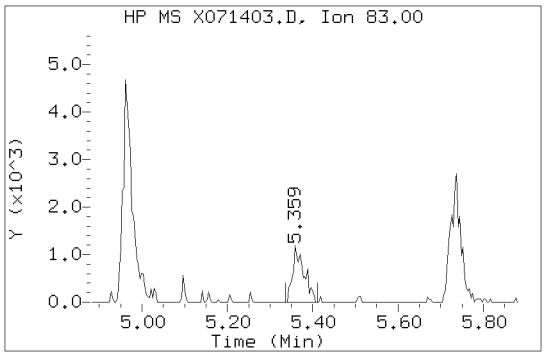
BEFORE

MASS
83
AREA
2193
HEIGHT
1189
20-Jul-2023
15:04
linh
pham



AFTER

MASS
83
AREA
2193
HEIGHT
1189
20-Jul-2023
15:04
linh
pham

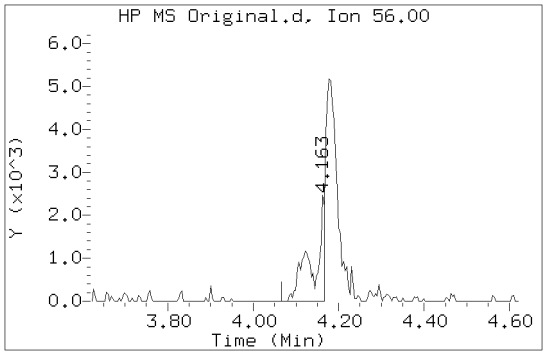


Cyclohexane (110-82-7)

Reason Code:

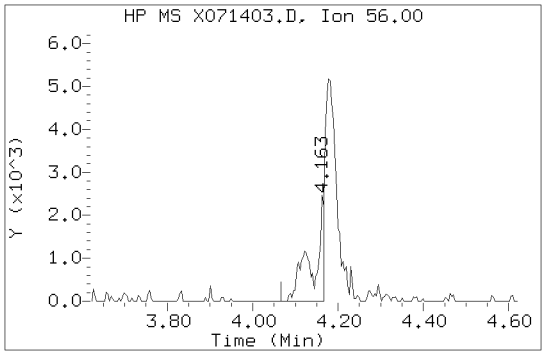
BEFORE

MASS
56
AREA
4321
HEIGHT
2474
20-Jul-2023
15:04
linh
pham



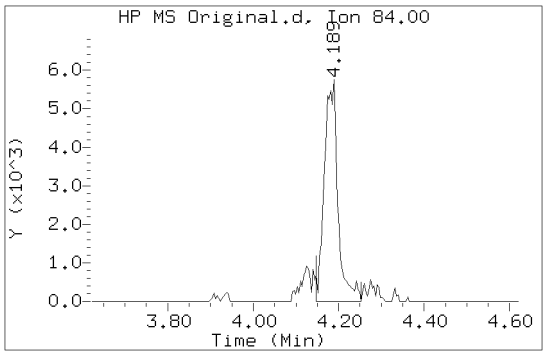
AFTER

MASS
56
AREA
4321
HEIGHT
2474
20-Jul-2023
15:04
linh
pham



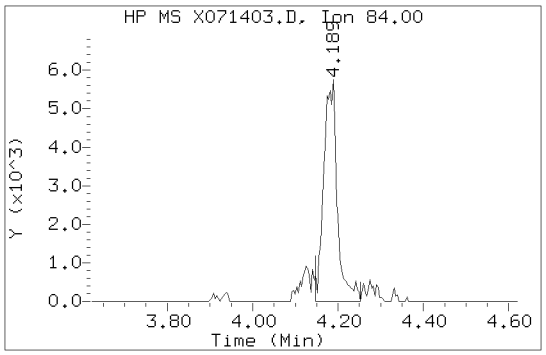
BEFORE

MASS
84
AREA
12654
HEIGHT
5754
20-Jul-2023
15:04
linh
pham



AFTER

MASS
84
AREA
12654
HEIGHT
5754
20-Jul-2023
15:04
linh
pham



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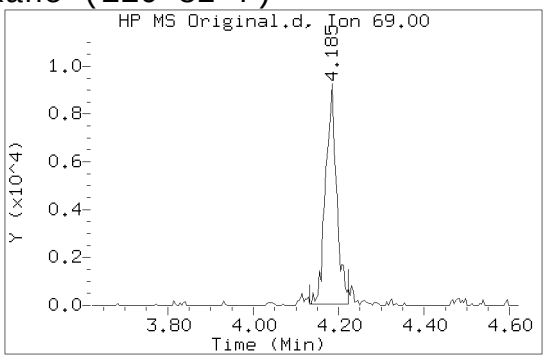
Inj Date : 14-JUL-2023 12:22
InstruID : voa6.i
LabSampID : VSTD000.5

Cyclohexane (110-82-7)

Reason Code:

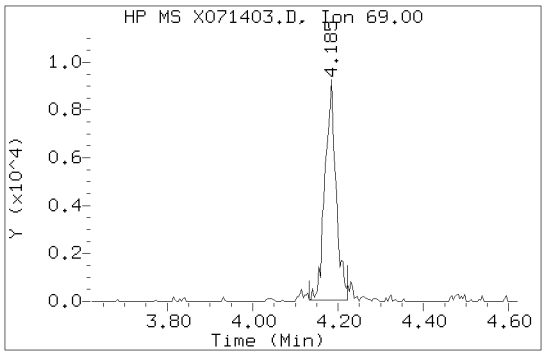
BEFORE

MASS
69
AREA
16448
HEIGHT
9203
20-Jul-2023
15:04
linh
pham



AFTER

MASS
69
AREA
16448
HEIGHT
9203
20-Jul-2023
15:04
linh
pham

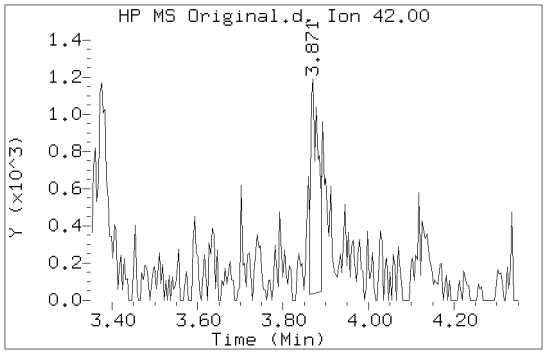


Tetrahydrofuran (109-99-9)

Reason Code:

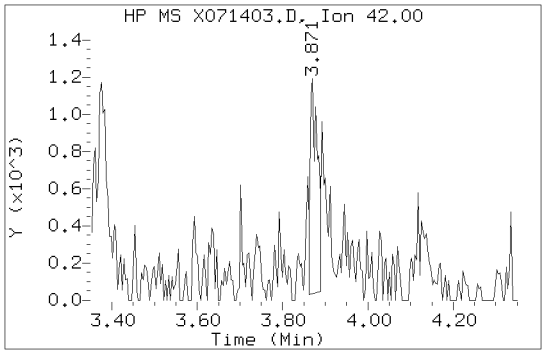
BEFORE

MASS
42
AREA
1418
HEIGHT
1157
20-Jul-2023
15:04
linh
pham



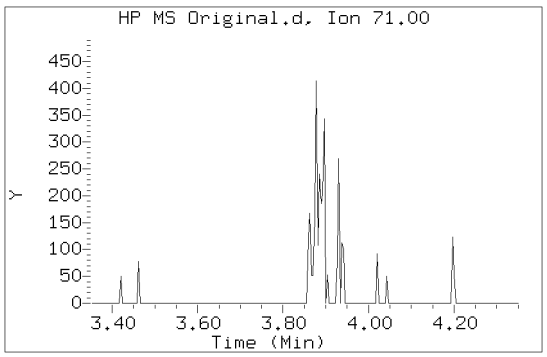
AFTER

MASS
42
AREA
1418
HEIGHT
1157
20-Jul-2023
15:04
linh
pham



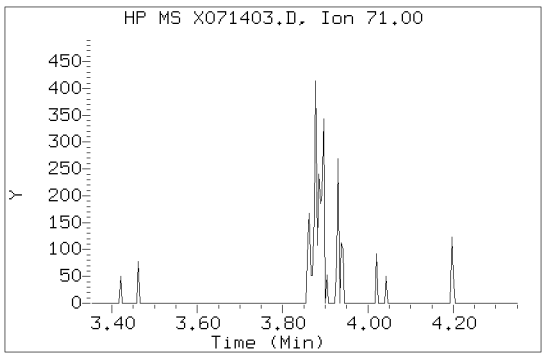
BEFORE

MASS
71
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham



AFTER

MASS
71
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham

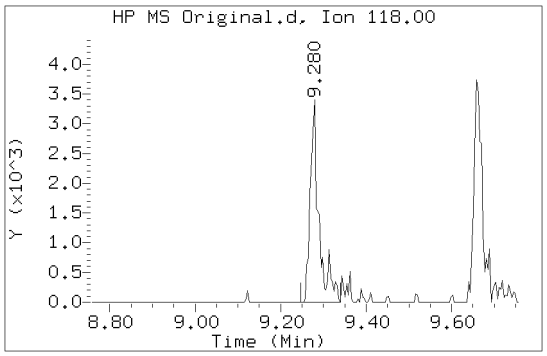


alpha-Methylstyrene (98-83-9)

Reason Code:

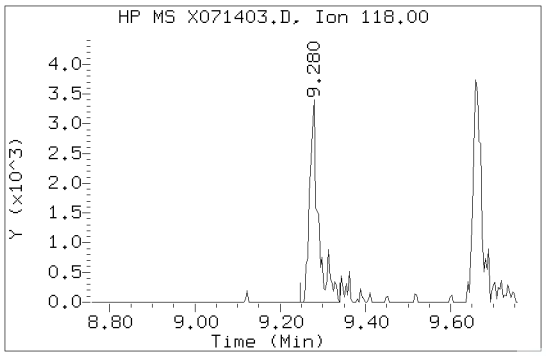
BEFORE

MASS
118
AREA
4759
HEIGHT
3401
20-Jul-2023
15:04
linh
pham



AFTER

MASS
118
AREA
4759
HEIGHT
3401
20-Jul-2023
15:04
linh
pham



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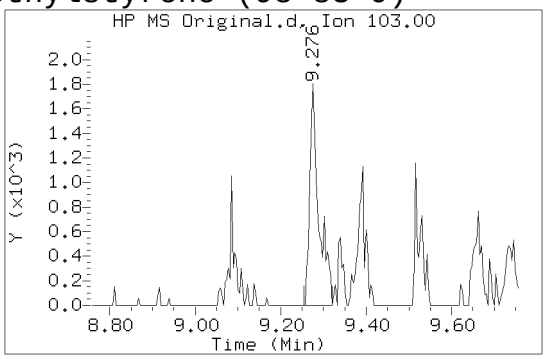
Inj Date : 14-JUL-2023 12:22
InstruID : voa6.i
LabSampID : VSTD000.5

alpha-Methylstyrene (98-83-9)

Reason Code:

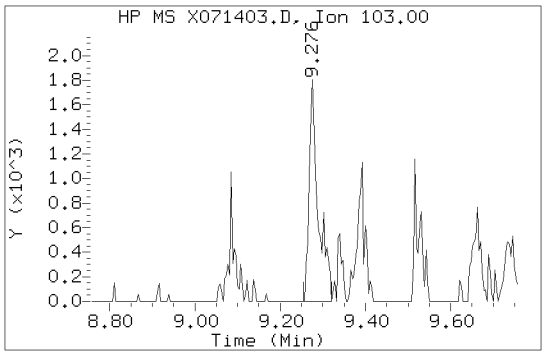
BEFORE

MASS
103
AREA
2652
HEIGHT
1804
20-Jul-2023
15:04
linh
pham



AFTER

MASS
103
AREA
2652
HEIGHT
1804
20-Jul-2023
15:04
linh
pham

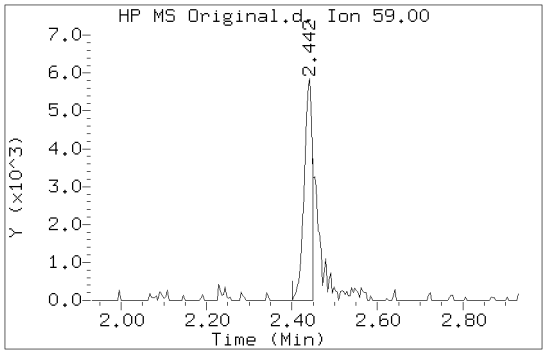


Tert-butyl alcohol (75-65-0)

Reason Code:

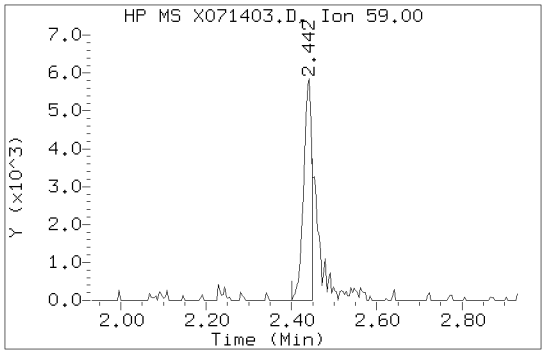
BEFORE

MASS
59
AREA
7856
HEIGHT
5851
20-Jul-2023
15:04
linh
pham



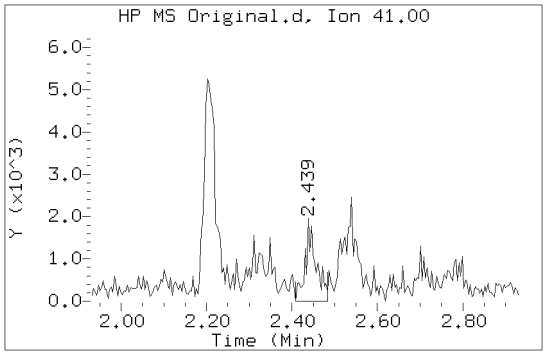
AFTER

MASS
59
AREA
7856
HEIGHT
5851
20-Jul-2023
15:04
linh
pham



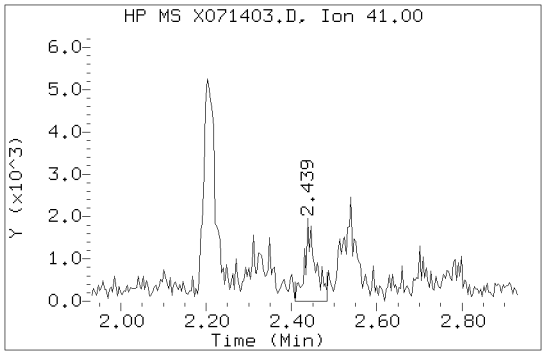
BEFORE

MASS
41
AREA
3380
HEIGHT
1954
20-Jul-2023
15:04
linh
pham



AFTER

MASS
41
AREA
3380
HEIGHT
1954
20-Jul-2023
15:04
linh
pham

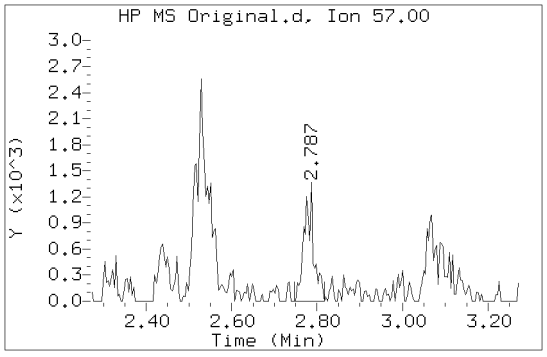


Allyl alcohol (107-18-6)

Reason Code:

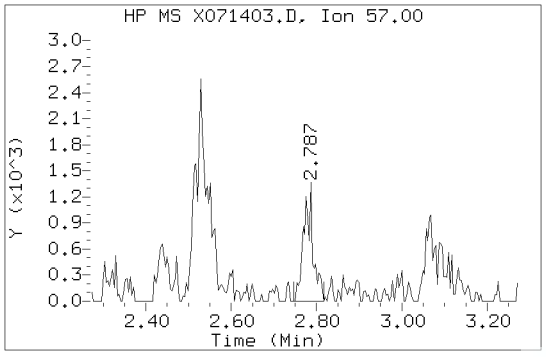
BEFORE

MASS
57
AREA
2068
HEIGHT
1372
20-Jul-2023
15:04
linh
pham



AFTER

MASS
57
AREA
2068
HEIGHT
1372
20-Jul-2023
15:04
linh
pham



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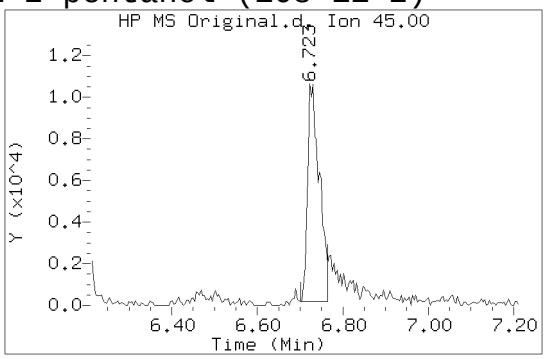
Inj Date : 14-JUL-2023 12:22
InstruID : voa6.i
LabSampID : VSTD000.5

4-Methyl-2-pentanol (108-11-2)

Reason Code:

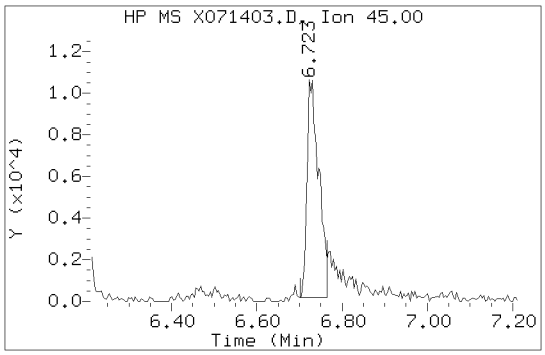
BEFORE

MASS
45
AREA
20217
HEIGHT
10478
20-Jul-2023
15:04
linh
pham



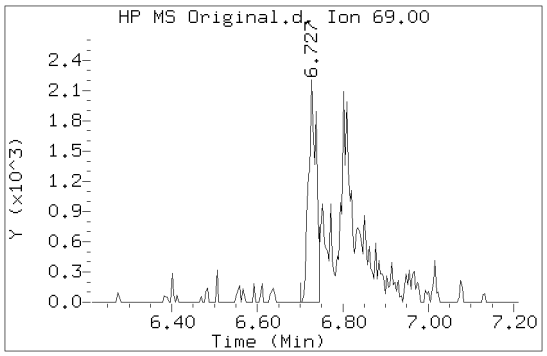
AFTER

MASS
45
AREA
20217
HEIGHT
10478
20-Jul-2023
15:04
linh
pham



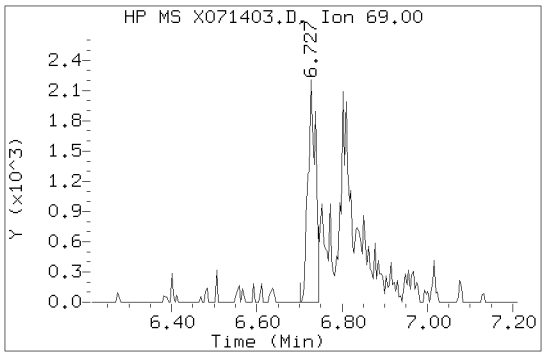
BEFORE

MASS
69
AREA
2780
HEIGHT
2206
20-Jul-2023
15:04
linh
pham



AFTER

MASS
69
AREA
2780
HEIGHT
2206
20-Jul-2023
15:04
linh
pham

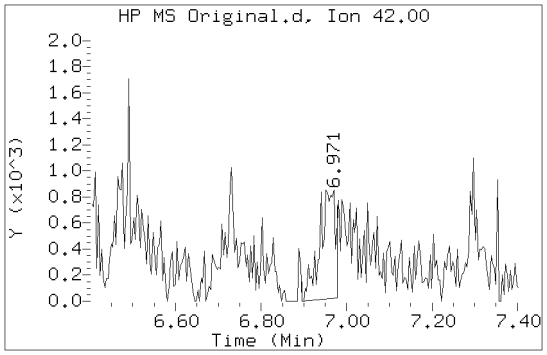


Amyl alcohol (71-41-0)

Reason Code:

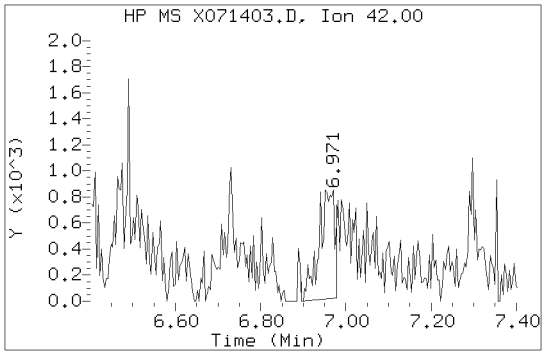
BEFORE

MASS
42
AREA
2120
HEIGHT
829
20-Jul-2023
15:04
linh
pham



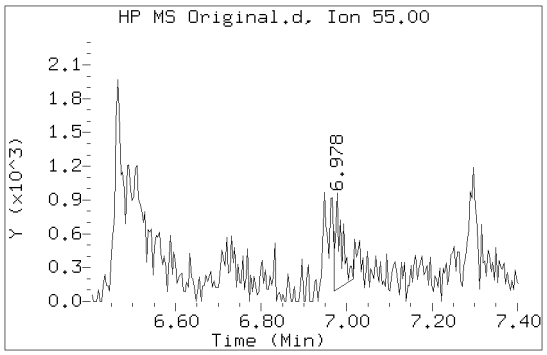
AFTER

MASS
42
AREA
2120
HEIGHT
829
20-Jul-2023
15:04
linh
pham



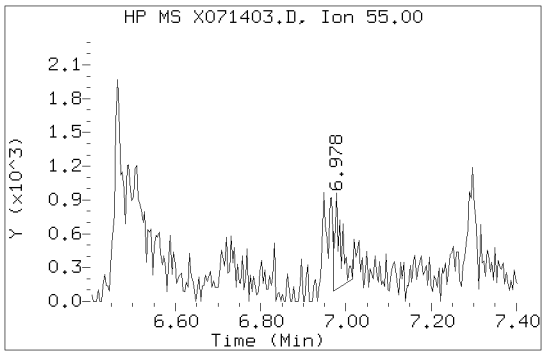
BEFORE

MASS
55
AREA
884
HEIGHT
854
20-Jul-2023
15:04
linh
pham



AFTER

MASS
55
AREA
884
HEIGHT
854
20-Jul-2023
15:04
linh
pham



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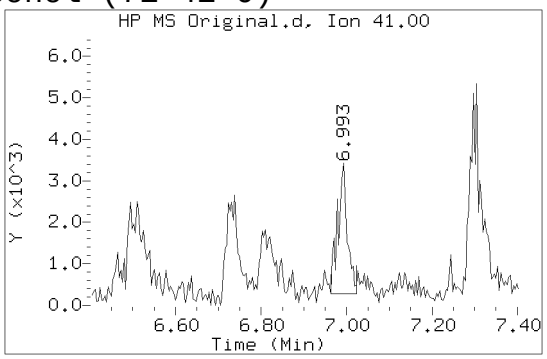
Inj Date : 14-JUL-2023 12:22
InstruID : voa6.i
LabSampID : VSTD000.5

Amyl alcohol (71-41-0)

Reason Code:

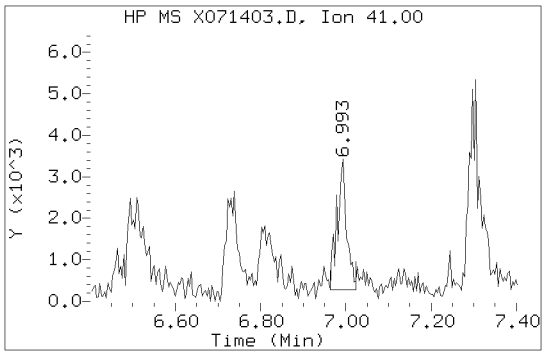
BEFORE

MASS
41
AREA
4891
HEIGHT
3144
20-Jul-2023
15:04
linh
pham



AFTER

MASS
41
AREA
4891
HEIGHT
3144
20-Jul-2023
15:04
linh
pham

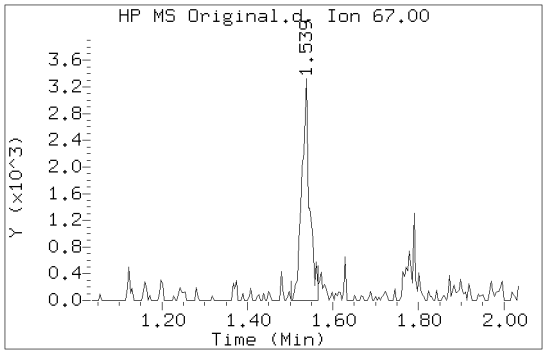


Dichlorofluoromethane (75-43-4)

Reason Code:

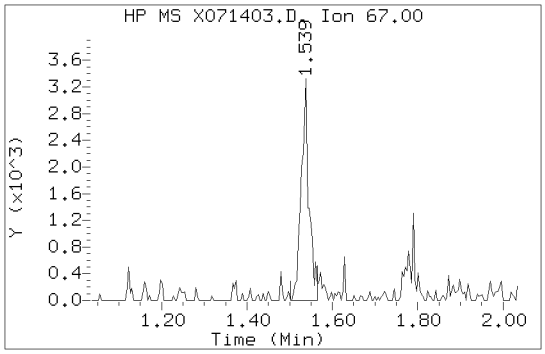
BEFORE

MASS
67
AREA
4296
HEIGHT
3324
20-Jul-2023
15:04
linh
pham



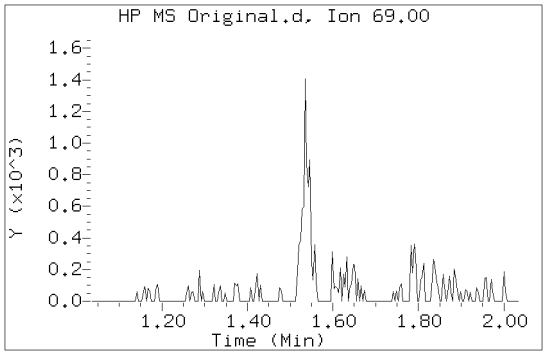
AFTER

MASS
67
AREA
4296
HEIGHT
3324
20-Jul-2023
15:04
linh
pham



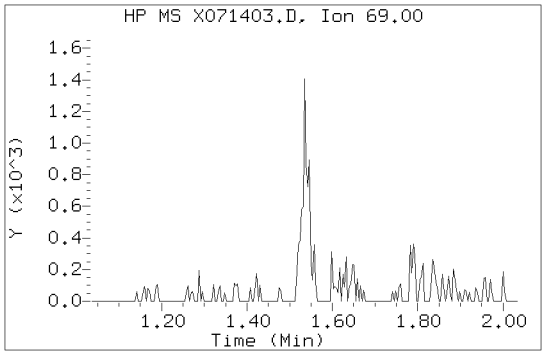
BEFORE

MASS
69
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham



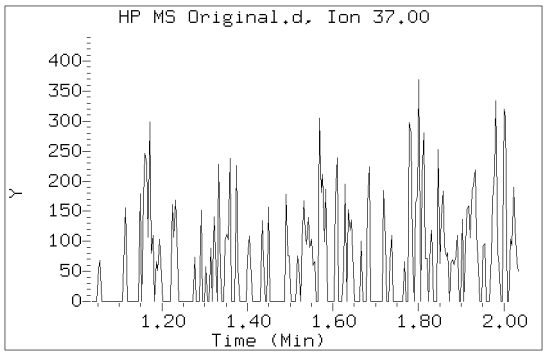
AFTER

MASS
69
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham



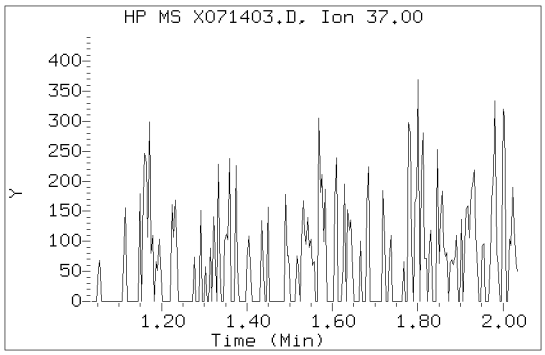
BEFORE

MASS
37
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham



AFTER

MASS
37
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham



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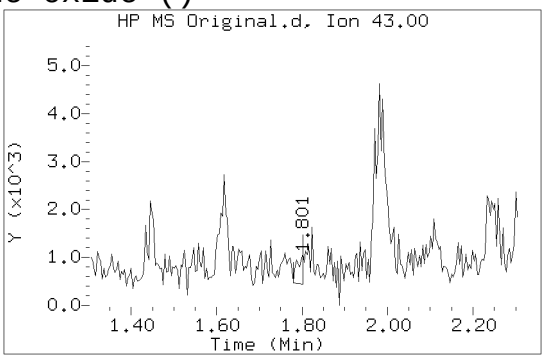
Inj Date : 14-JUL-2023 12:22
InstruID : voa6.i
LabSampID : VSTD000.5

Propylene oxide ()

Reason Code:

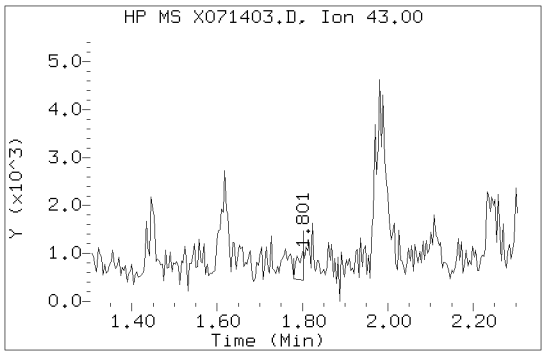
BEFORE

MASS
43
AREA
615
HEIGHT
640
20-Jul-2023
15:04
linh
pham



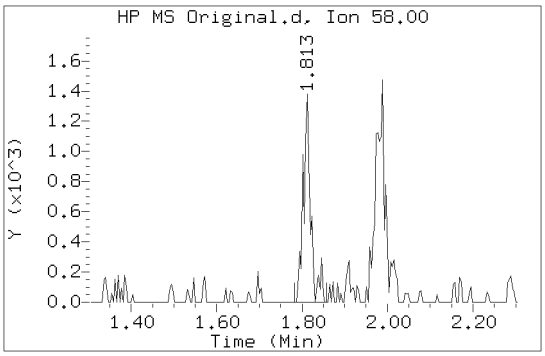
AFTER

MASS
43
AREA
615
HEIGHT
640
20-Jul-2023
15:04
linh
pham



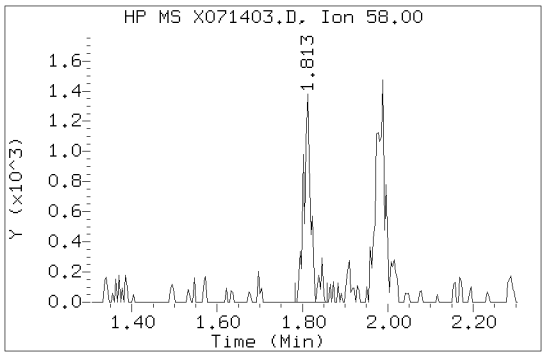
BEFORE

MASS
58
AREA
1675
HEIGHT
1380
20-Jul-2023
15:04
linh
pham



AFTER

MASS
58
AREA
1675
HEIGHT
1380
20-Jul-2023
15:04
linh
pham

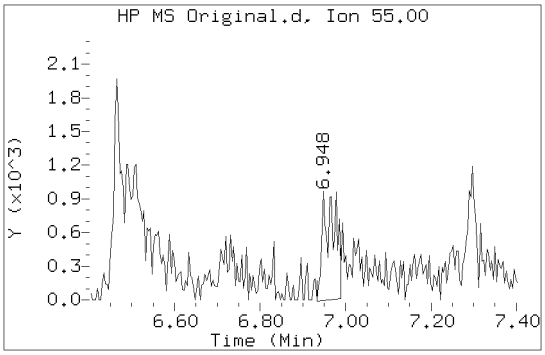


3-Methyl-1-butanol (123-51-3)

Reason Code:

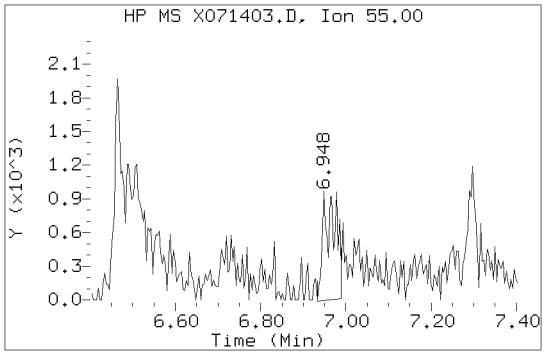
BEFORE

MASS
55
AREA
1945
HEIGHT
970
20-Jul-2023
15:04
linh
pham



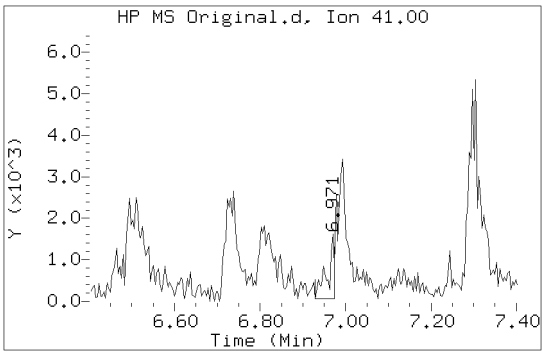
AFTER

MASS
55
AREA
1945
HEIGHT
970
20-Jul-2023
15:04
linh
pham



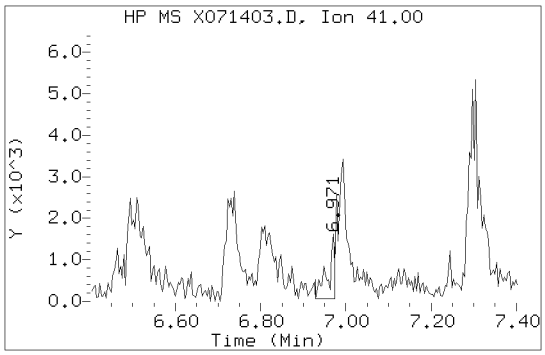
BEFORE

MASS
41
AREA
1621
HEIGHT
1554
20-Jul-2023
15:04
linh
pham



AFTER

MASS
41
AREA
1621
HEIGHT
1554
20-Jul-2023
15:04
linh
pham



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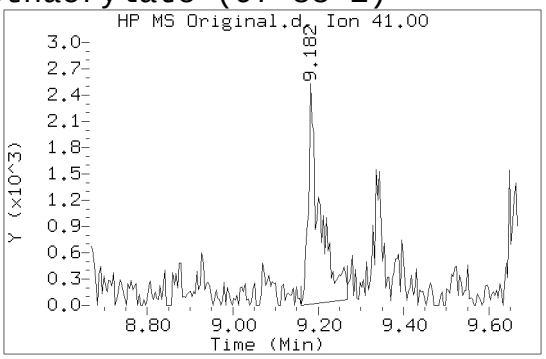
Inj Date : 14-JUL-2023 12:22
InstruID : voa6.i
LabSampID : VSTD000.5

Butyl methacrylate (97-88-1)

Reason Code:

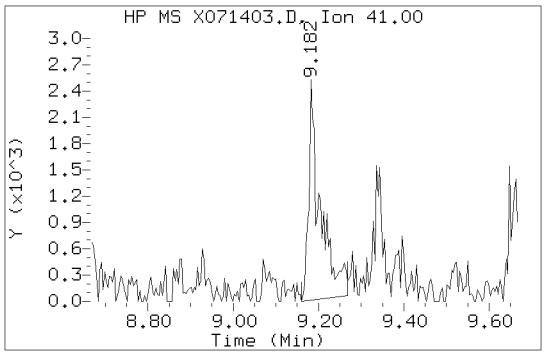
BEFORE

MASS
41
AREA
4724
HEIGHT
2516
20-Jul-2023
15:04
linh
pham



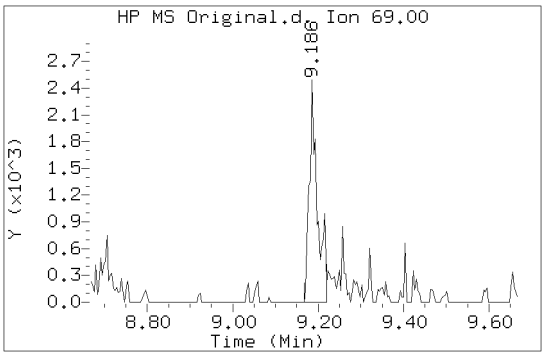
AFTER

MASS
41
AREA
4724
HEIGHT
2516
20-Jul-2023
15:04
linh
pham



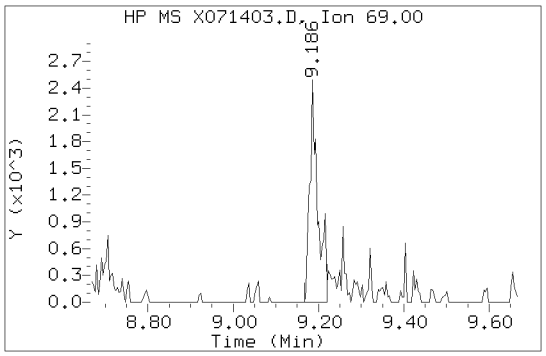
BEFORE

MASS
69
AREA
3258
HEIGHT
2492
20-Jul-2023
15:04
linh
pham



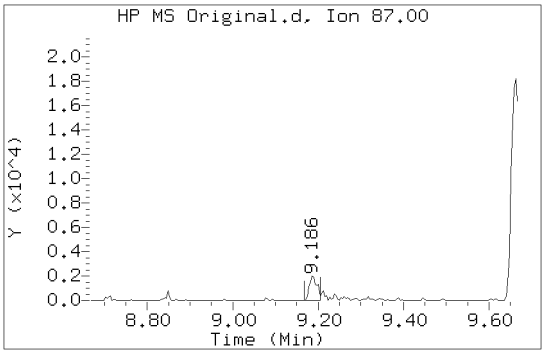
AFTER

MASS
69
AREA
3258
HEIGHT
2492
20-Jul-2023
15:04
linh
pham



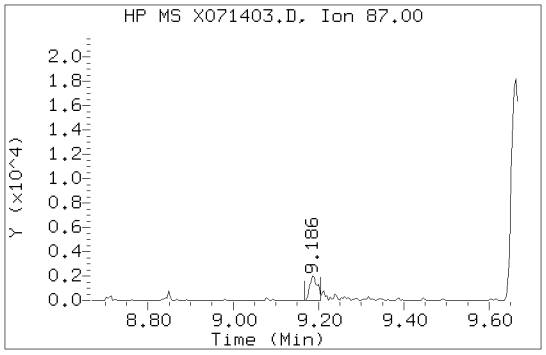
BEFORE

MASS
87
AREA
2479
HEIGHT
2026
20-Jul-2023
15:04
linh
pham



AFTER

MASS
87
AREA
2479
HEIGHT
2026
20-Jul-2023
15:04
linh
pham

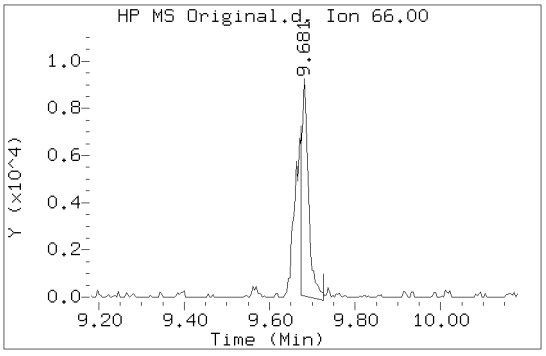


Dicyclopentadiene (77-73-6)

Reason Code:

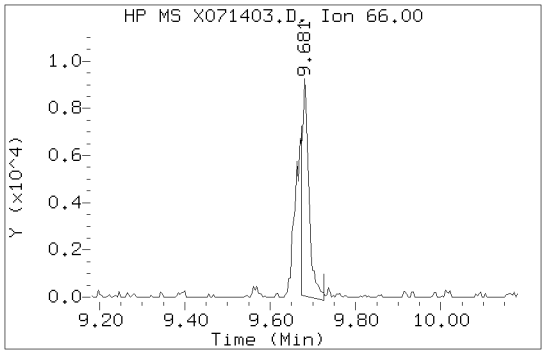
BEFORE

MASS
66
AREA
10848
HEIGHT
9195
20-Jul-2023
15:04
linh
pham



AFTER

MASS
66
AREA
10848
HEIGHT
9195
20-Jul-2023
15:04
linh
pham



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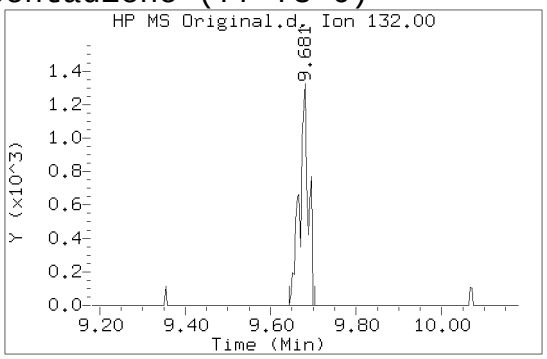
Inj Date : 14-JUL-2023 12:22
InstruID : voa6.i
LabSampID : VSTD000.5

Dicyclopentadiene (77-73-6)

Reason Code:

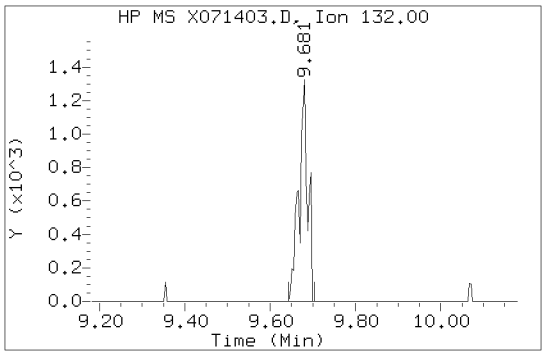
BEFORE

MASS
132
AREA
1955
HEIGHT
1325
20-Jul-2023
15:04
linh
pham



AFTER

MASS
132
AREA
1955
HEIGHT
1325
20-Jul-2023
15:04
linh
pham

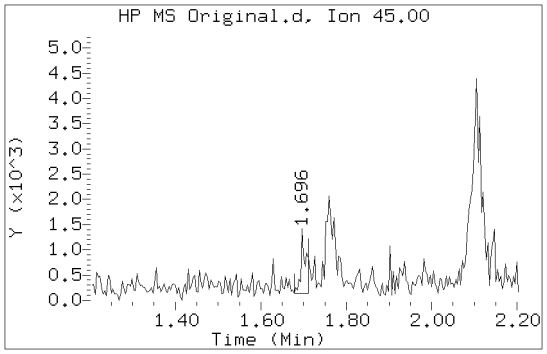


Ethanol (64-17-5)

Reason Code:

BEFORE

MASS
45
AREA
1082
HEIGHT
1281
20-Jul-2023
15:04
linh
pham



AFTER

MASS
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1082
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1281
20-Jul-2023
15:04
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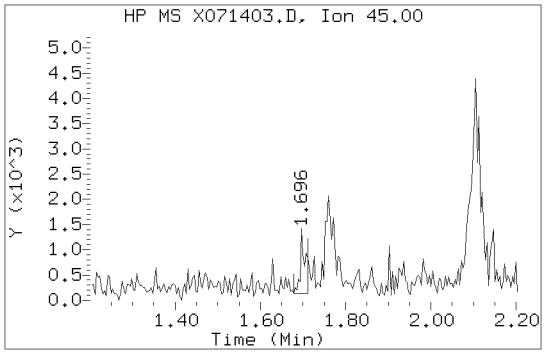

BEFORE

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46
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20-Jul-2023
15:04
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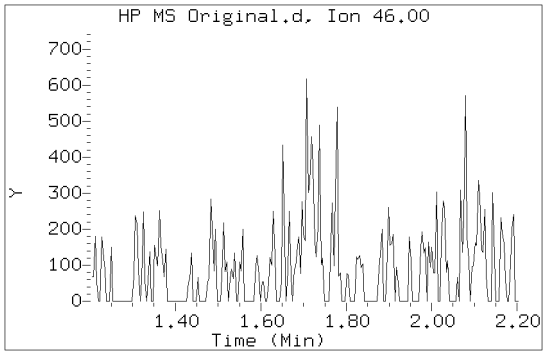

AFTER

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20-Jul-2023
15:04
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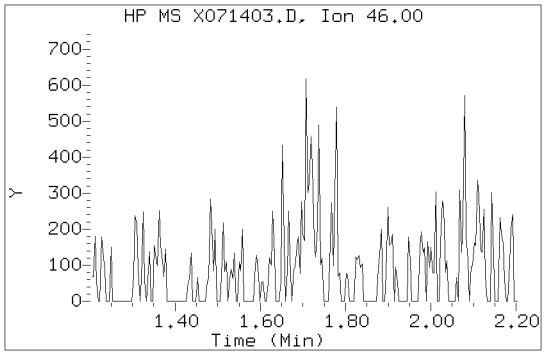

BEFORE

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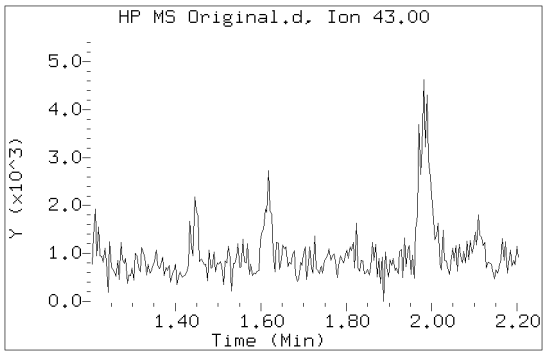

AFTER

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20-Jul-2023
15:04
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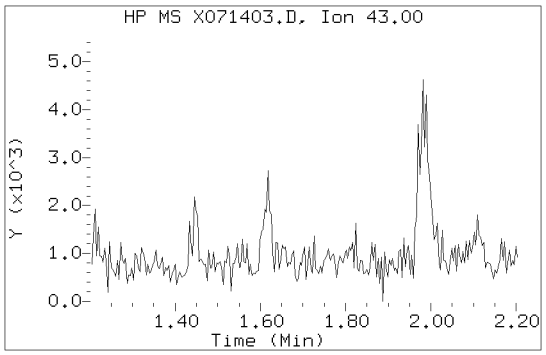

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Inj Date : 14-JUL-2023 12:22
InstruID : voa6.i
LabSampID : VSTD000.5

tert-Butyl formate (762-75-4)

Reason Code:

BEFORE
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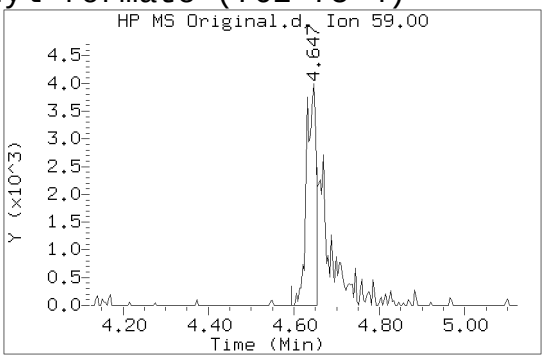
6083
HEIGHT
3995
20-Jul-2023
15:04
linh
pham



AFTER
MASS
59
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6083
HEIGHT
3995
20-Jul-2023
15:04
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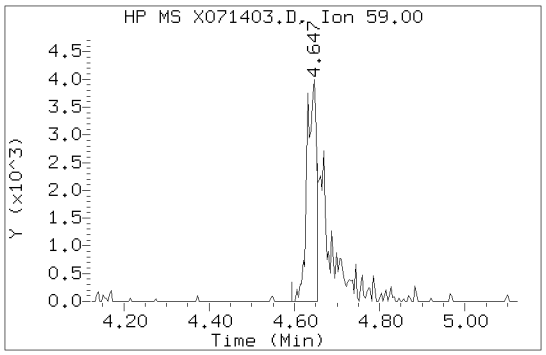

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20-Jul-2023
15:04
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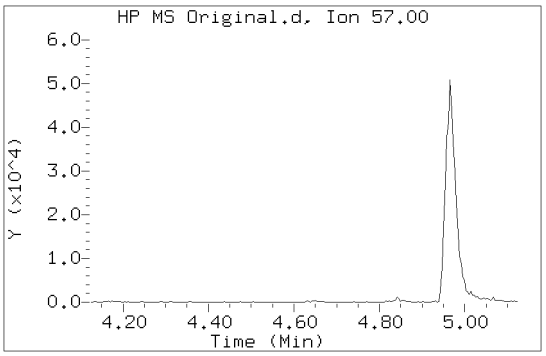

AFTER
MASS
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HEIGHT
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20-Jul-2023
15:04
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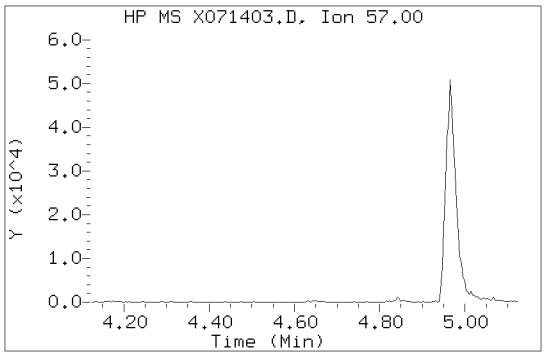

BEFORE
MASS
41
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20-Jul-2023
15:04
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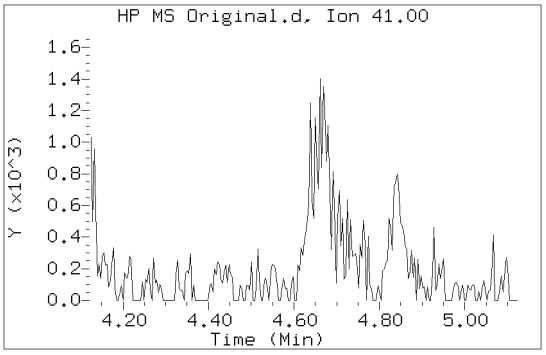

AFTER
MASS
41
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HEIGHT
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20-Jul-2023
15:04
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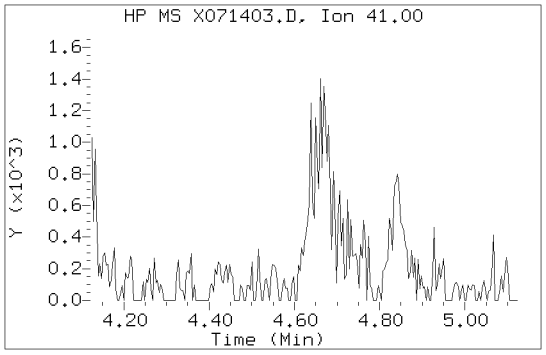
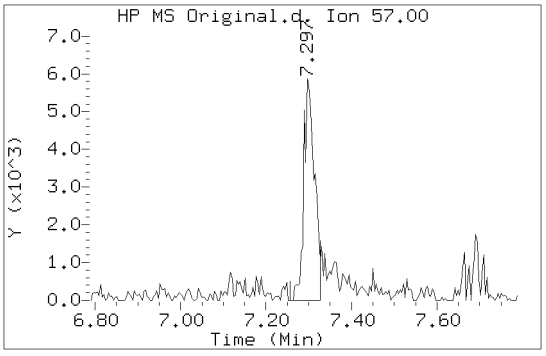


3,3-Dimethyl-1-butanol (624-95-3)

Reason Code:

BEFORE
MASS
57
AREA
10397
HEIGHT
5870
20-Jul-2023
15:04
linh
pham



AFTER
MASS
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HEIGHT
5870
20-Jul-2023
15:04
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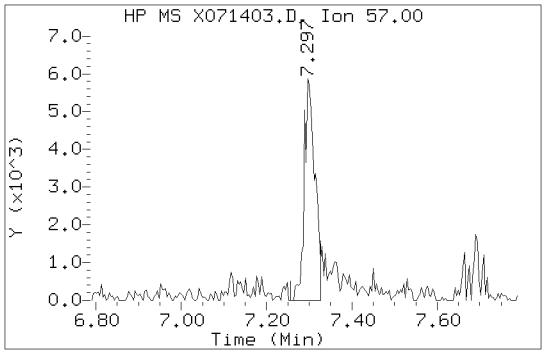
pham



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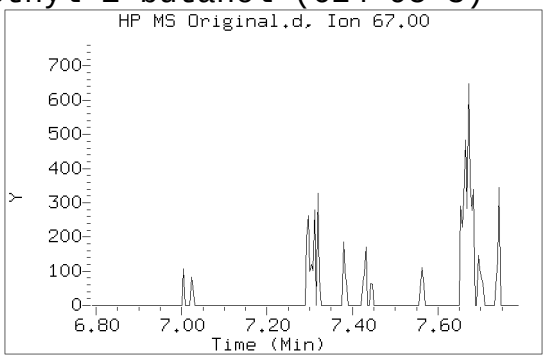
Inj Date : 14-JUL-2023 12:22
InstruID : voa6.i
LabSampID : VSTD000.5

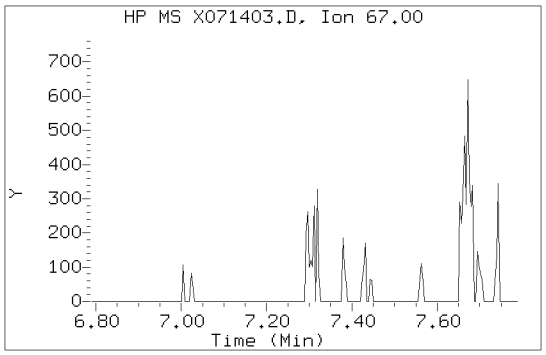
3,3-Dimethyl-1-butanol (624-95-3)

Reason Code:

BEFORE
MASS
67
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham



AFTER
MASS
67
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham



BEFORE
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56
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HEIGHT
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20-Jul-2023
15:04
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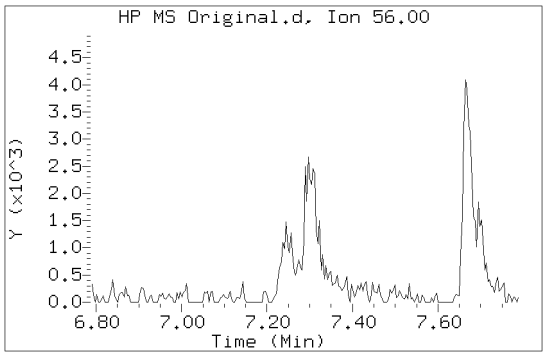

AFTER
MASS
56
AREA
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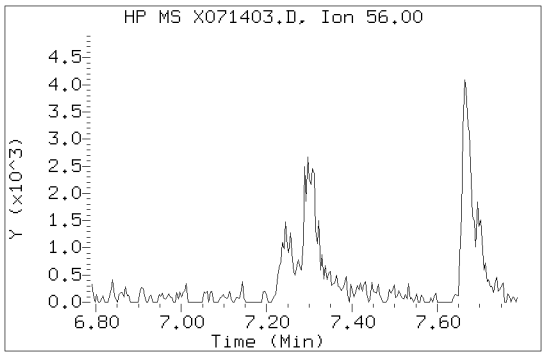
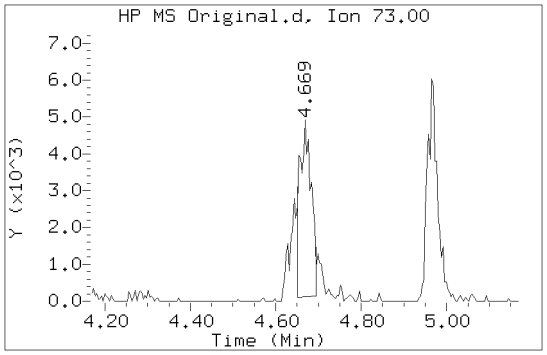
HEIGHT
0
20-Jul-2023
15:04
linh
pham



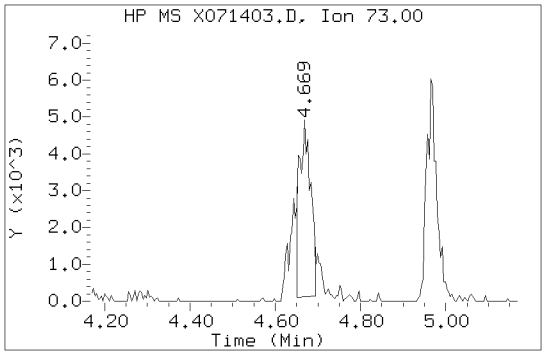
tert-Amyl methyl ether (974-05-08)

Reason Code:

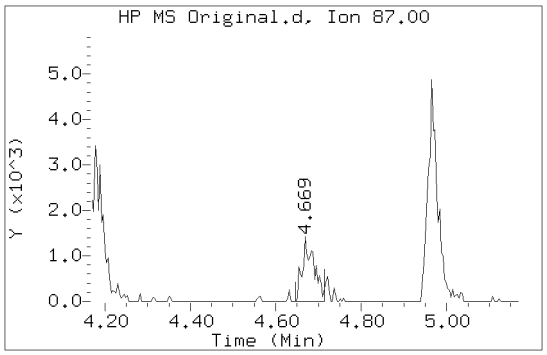
BEFORE
MASS
73
AREA
9377
HEIGHT
4800
20-Jul-2023
15:04
linh
pham



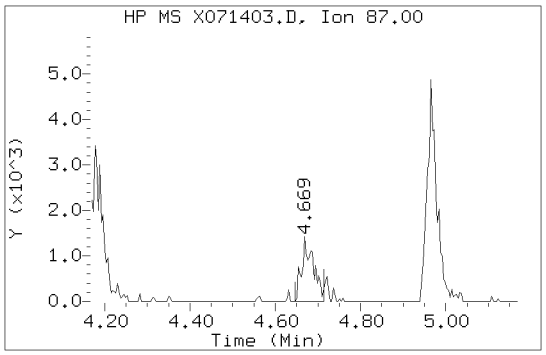
AFTER
MASS
73
AREA
9377
HEIGHT
4800
20-Jul-2023
15:04
linh
pham



BEFORE
MASS
87
AREA
2769
HEIGHT
1423
20-Jul-2023
15:04
linh
pham



AFTER
MASS
87
AREA
2769
HEIGHT
1423
20-Jul-2023
15:04
linh
pham



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Inj Date : 14-JUL-2023 12:22
InstruID : voa6.i
LabSampID : VSTD000.5

tert-Amyl methyl ether (974-05-08)

Reason Code:

BEFORE

MASS
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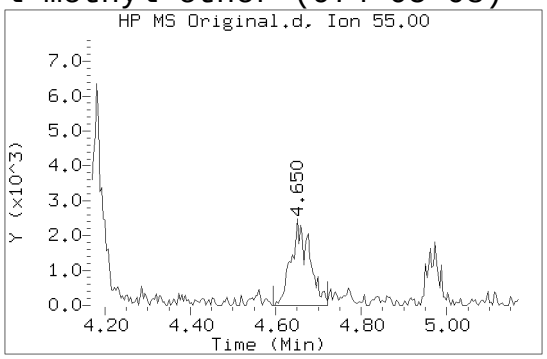
AREA
7426
HEIGHT
2483
20-Jul-2023
15:04
linh
pham



AFTER

MASS
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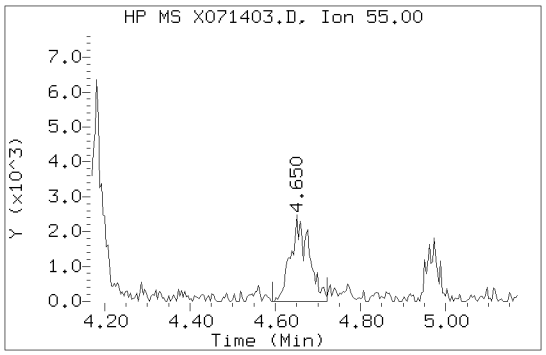
AREA
7426
HEIGHT
2483
20-Jul-2023
15:04
linh
pham



tert-Amyl alcohol (75-85-4)

Reason Code:

BEFORE

MASS
59
AREA
6083
HEIGHT
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20-Jul-2023
15:04
linh
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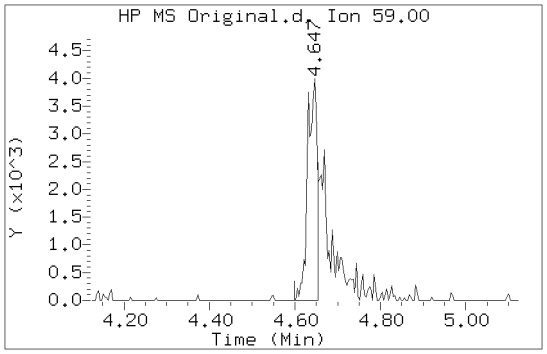

AFTER

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HEIGHT
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20-Jul-2023
15:04
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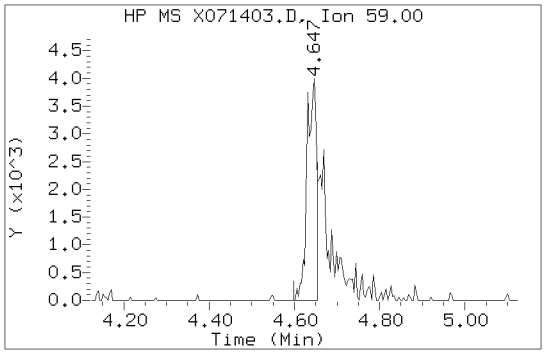
pham



BEFORE

MASS
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AREA
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HEIGHT
2424
20-Jul-2023
15:04
linh
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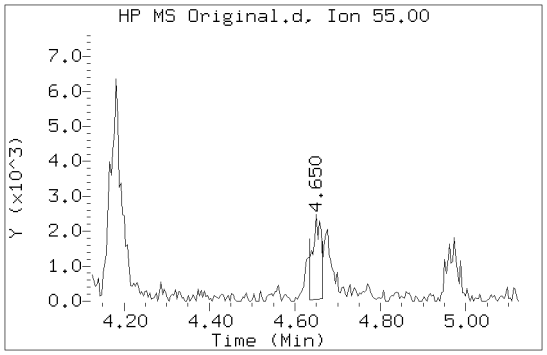

AFTER

MASS
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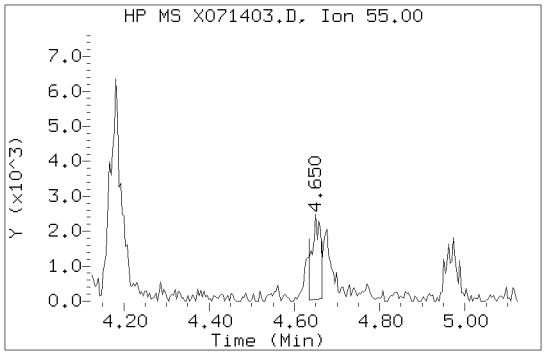
AREA
3364
HEIGHT
2424
20-Jul-2023
15:04
linh
pham



BEFORE

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4914
20-Jul-2023
15:04
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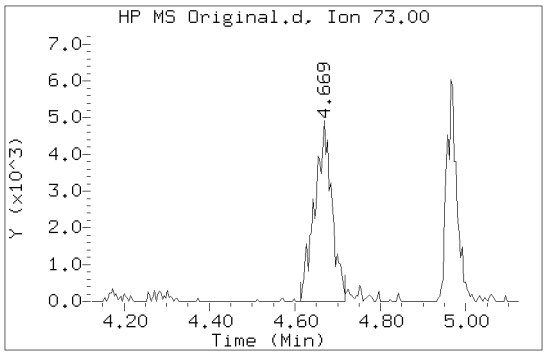

AFTER

MASS
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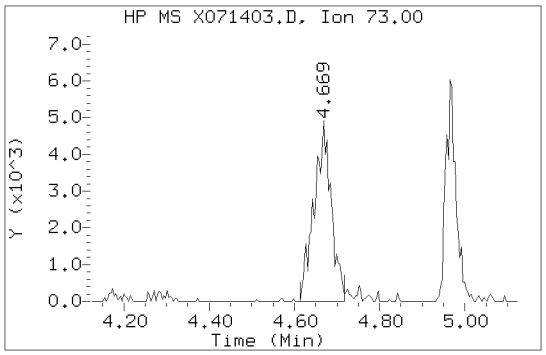
AREA
13761
HEIGHT
4914
20-Jul-2023
15:04
linh
pham



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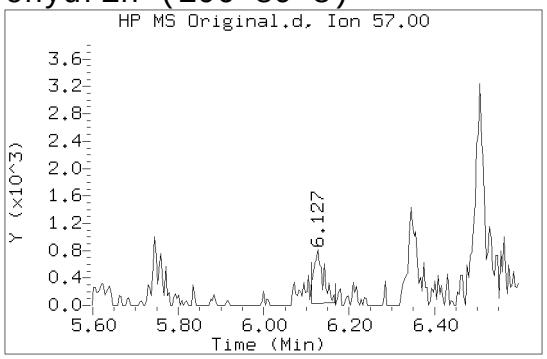
Inj Date : 14-JUL-2023 12:22
InstruID : voa6.i
LabSampID : VSTD000.5

Epichlorohydrin (106-89-8)

Reason Code:

BEFORE
MASS
57
AREA
1233
HEIGHT
788
20-Jul-2023
15:04
linh
pham



AFTER
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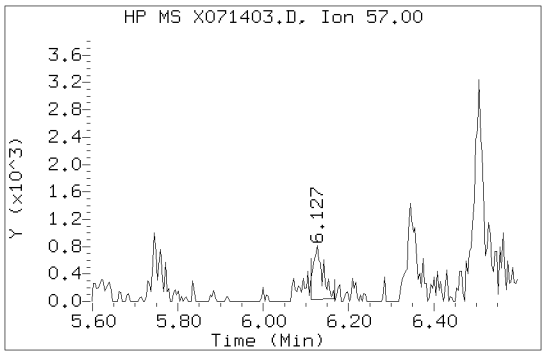
HEIGHT
788
20-Jul-2023
15:04
linh
pham



BEFORE
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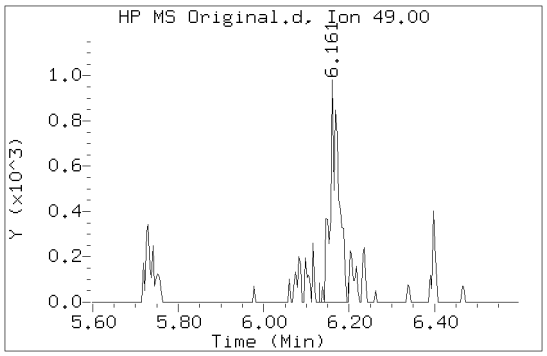
AREA
1383
HEIGHT
981
20-Jul-2023
15:04
linh
pham



AFTER
MASS
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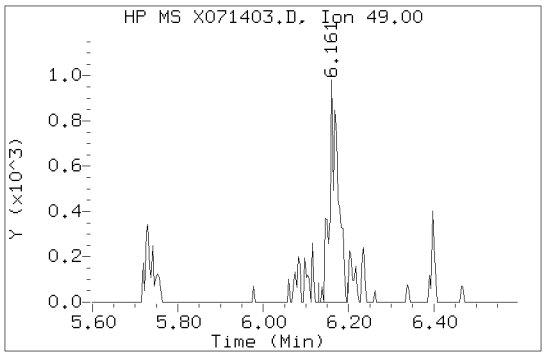
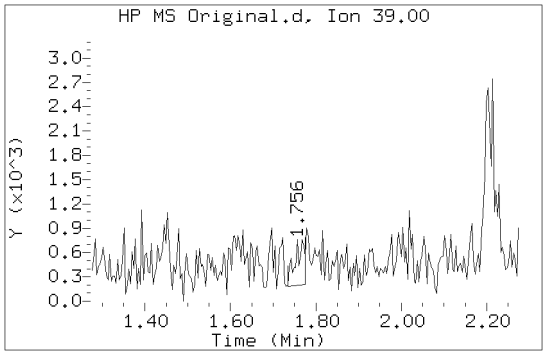
1383
HEIGHT
981
20-Jul-2023
15:04
linh
pham



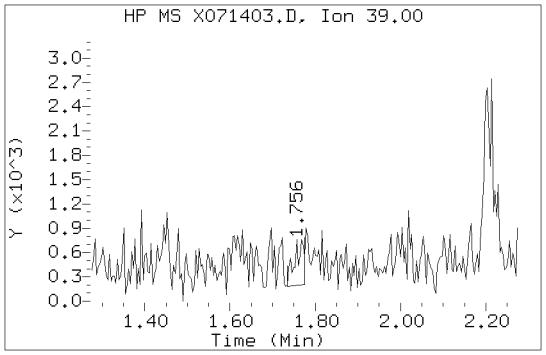
Isoprene (78-79-5)

Reason Code:

BEFORE
MASS
39
AREA
843
HEIGHT
570
20-Jul-2023
15:04
linh
pham



AFTER
MASS
39
AREA
843
HEIGHT
570
20-Jul-2023
15:04
linh
pham



BEFORE
MASS
67
AREA
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HEIGHT
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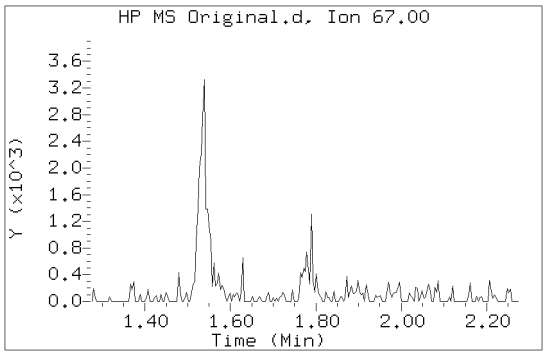
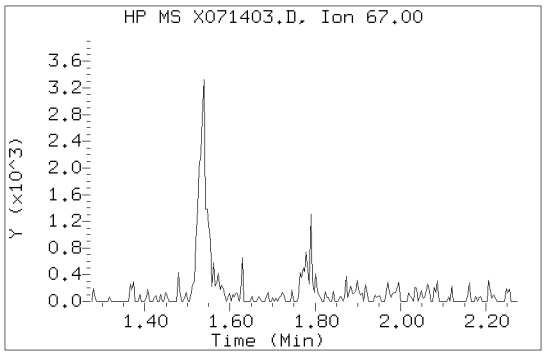
20-Jul-2023
15:04
linh
pham



AFTER
MASS
67
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham



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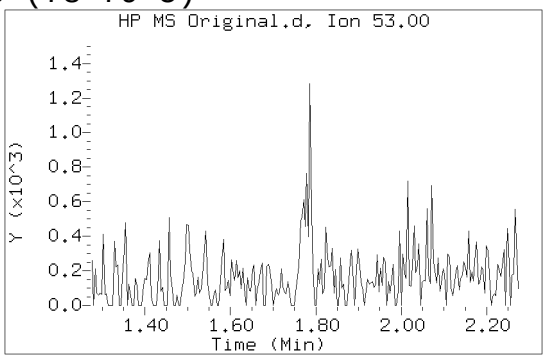
Inj Date : 14-JUL-2023 12:22
InstruID : voa6.i
LabSampID : VSTD000.5

Isoprene (78-79-5)

Reason Code:

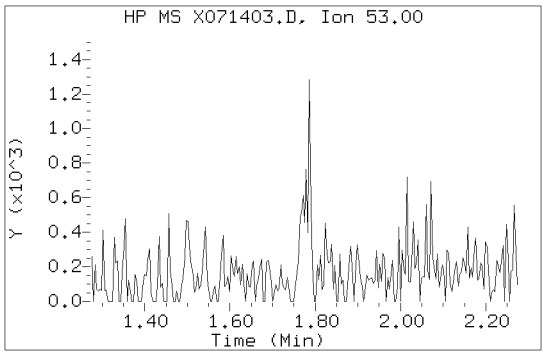
BEFORE

MASS
53
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham



AFTER

MASS
53
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham

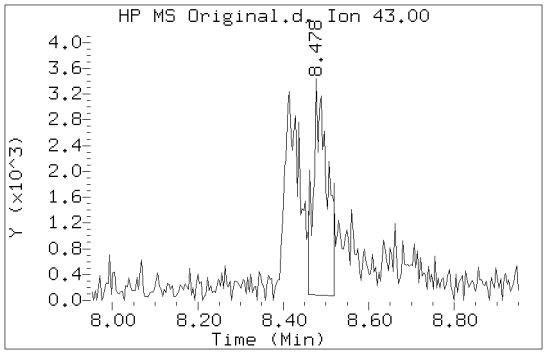


n-Amyl acetate (628-63-7)

Reason Code:

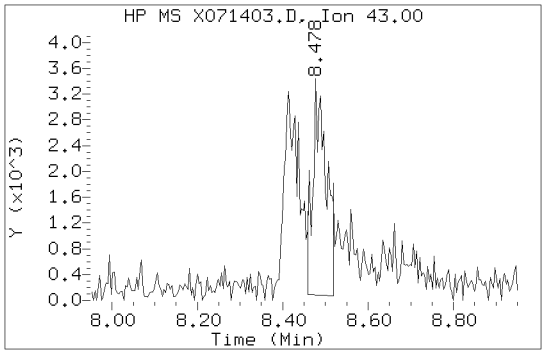
BEFORE

MASS
43
AREA
7447
HEIGHT
3352
20-Jul-2023
15:04
linh
pham



AFTER

MASS
43
AREA
7447
HEIGHT
3352
20-Jul-2023
15:04
linh
pham



BEFORE

MASS
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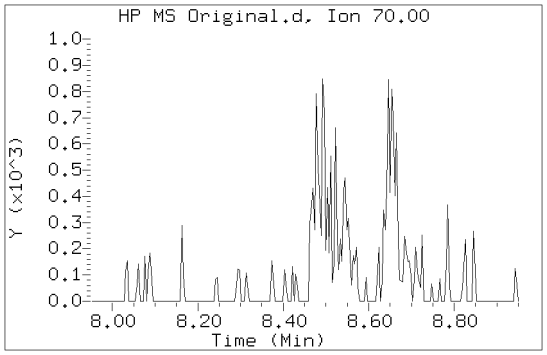
HEIGHT
0
20-Jul-2023
15:04
linh
pham



AFTER

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20-Jul-2023
15:04
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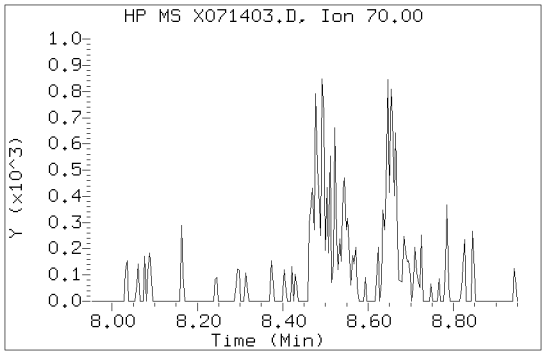

BEFORE

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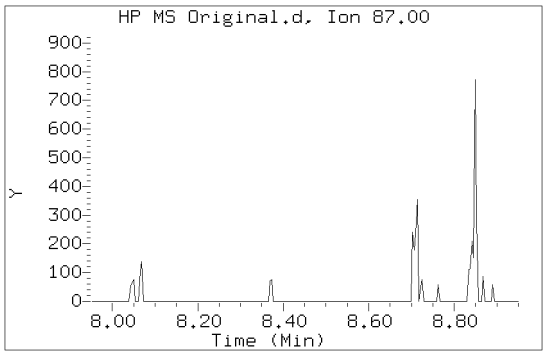

AFTER

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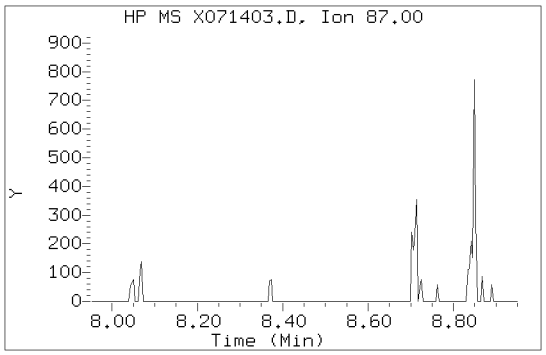

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Inj Date : 14-JUL-2023 12:22
InstruID : voa6.i
LabSampID : VSTD000.5

n-Butyl acetate (123-86-4)

Reason Code:

BEFORE

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HEIGHT
3352
20-Jul-2023
15:04
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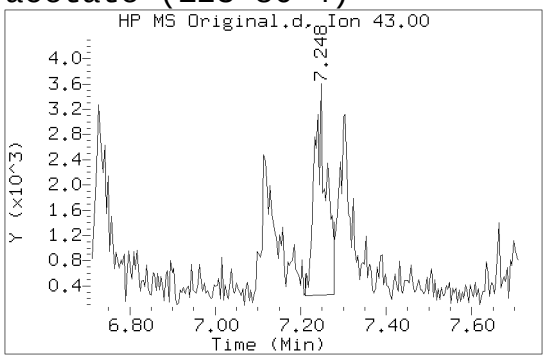
pham



AFTER

MASS
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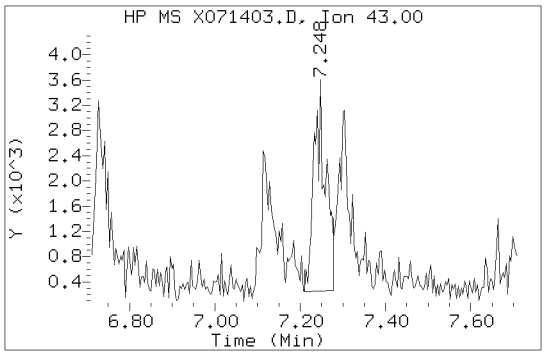
6398
HEIGHT
3352
20-Jul-2023
15:04
linh
pham



BEFORE

MASS
56
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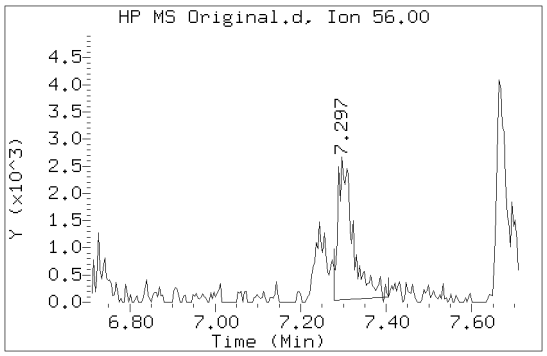
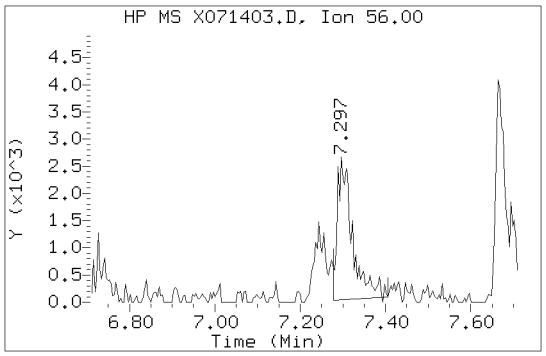
6426
HEIGHT
2636
20-Jul-2023
15:04
linh
pham



AFTER

MASS
56
AREA
6426
HEIGHT
2636
20-Jul-2023
15:04
linh
pham



BEFORE

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AREA
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HEIGHT
572
20-Jul-2023
15:04
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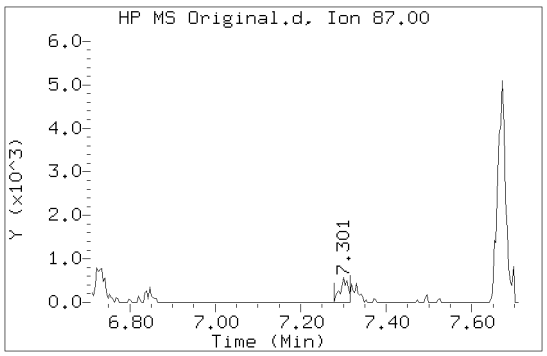
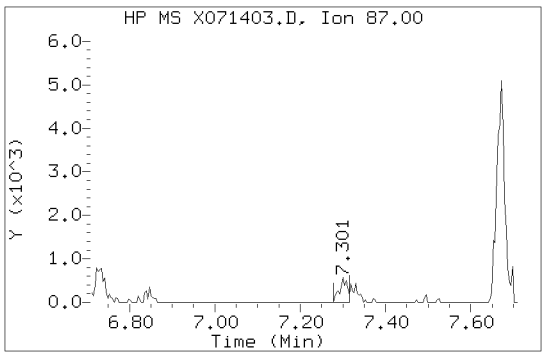


AFTER

MASS
87
AREA
709
HEIGHT
572
20-Jul-2023
15:04
linh
pham



Isobutylene (115-11-7)

Reason Code:

BEFORE

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AREA
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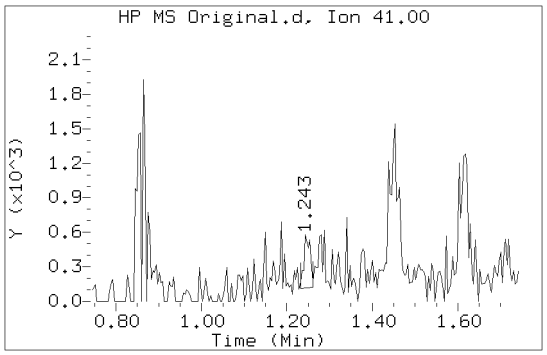
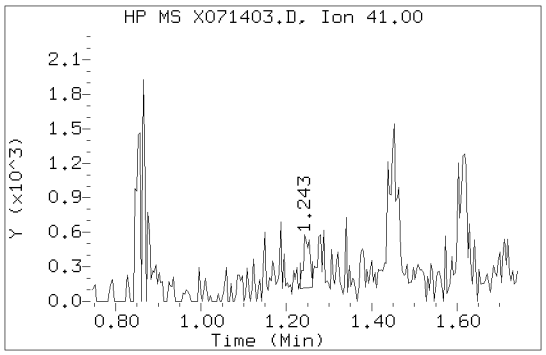
HEIGHT
462
20-Jul-2023
15:04
linh
pham



AFTER

MASS
41
AREA
500
HEIGHT
462
20-Jul-2023
15:04
linh
pham



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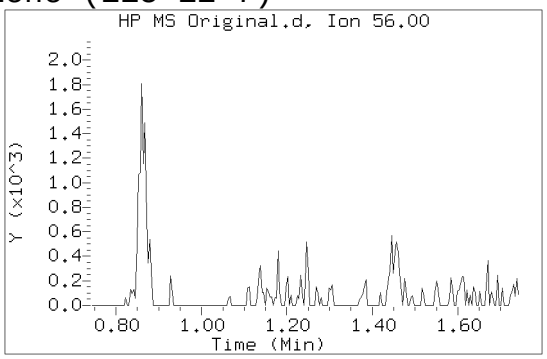
Inj Date : 14-JUL-2023 12:22
InstruID : voa6.i
LabSampID : VSTD000.5

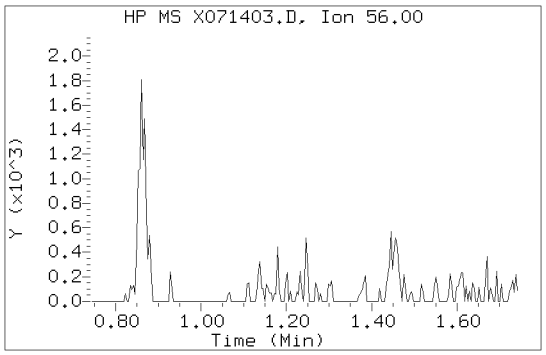
Isobutylene (115-11-7)

Reason Code:

BEFORE
MASS
56
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham



AFTER
MASS
56
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham



BEFORE
MASS
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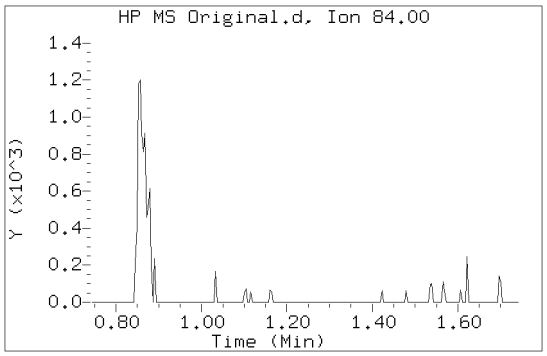
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham



AFTER
MASS
84
AREA
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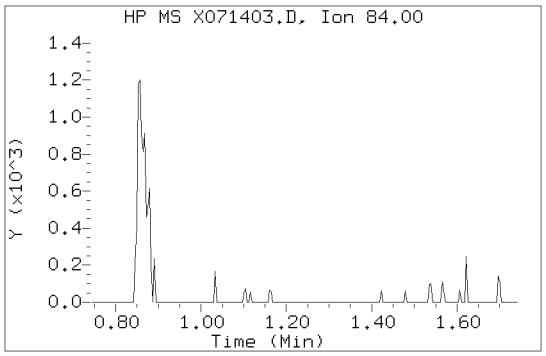
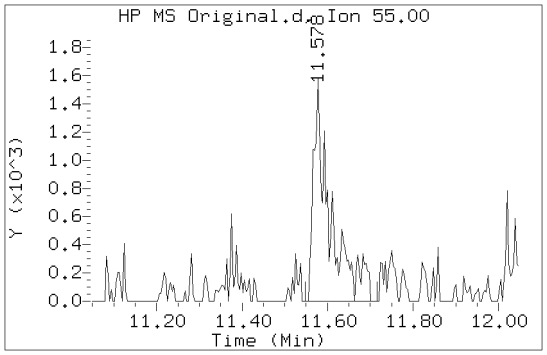
HEIGHT
0
20-Jul-2023
15:04
linh
pham



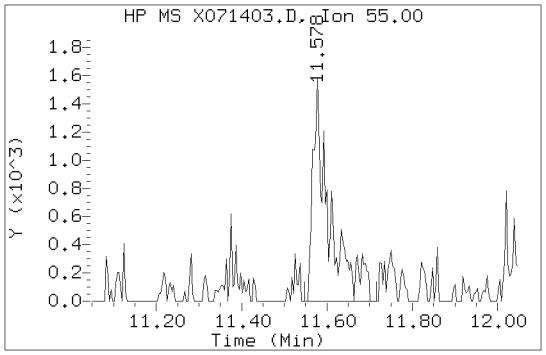
2-Ethylhexyl Acrylate (103-11-7)

Reason Code:

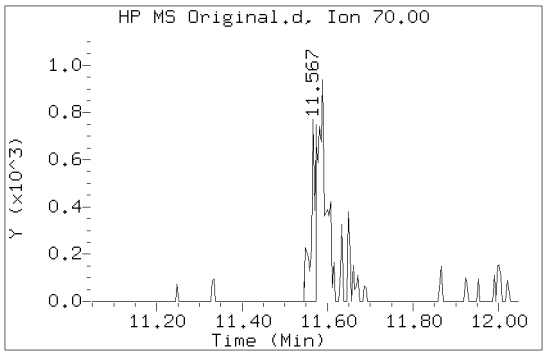
BEFORE
MASS
55
AREA
4236
HEIGHT
1577
20-Jul-2023
15:04
linh
pham



AFTER
MASS
55
AREA
4236
HEIGHT
1577
20-Jul-2023
15:04
linh
pham



BEFORE
MASS
70
AREA
631
HEIGHT
771
20-Jul-2023
15:04
linh
pham



AFTER
MASS
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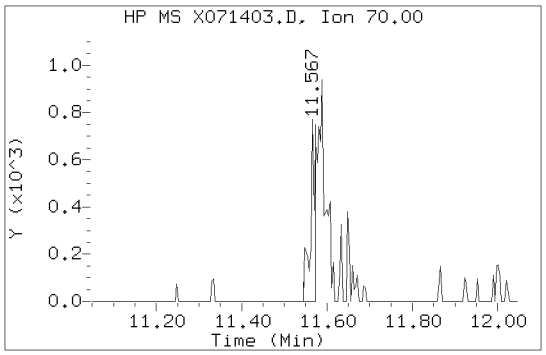
AREA
631
HEIGHT
771
20-Jul-2023
15:04
linh
pham



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Inj Date : 14-JUL-2023 12:22
InstruID : voa6.i
LabSampID : VSTD000.5

Dibromofluoromethane (1868-53-7)

Reason Code:

BEFORE
MASS
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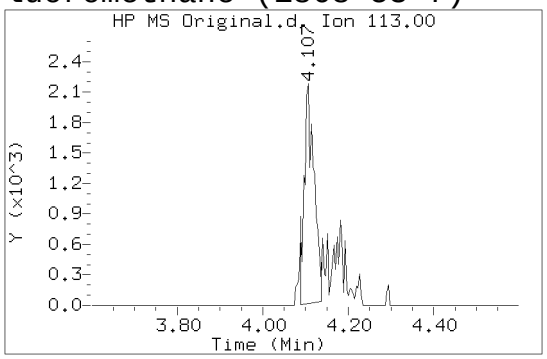
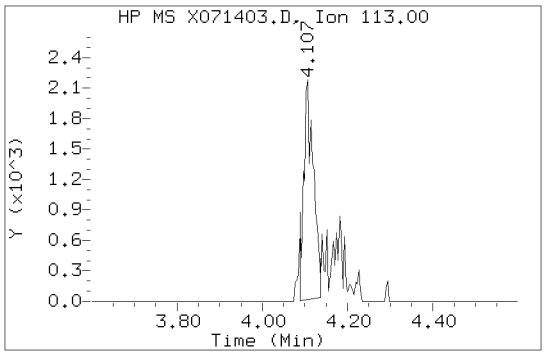
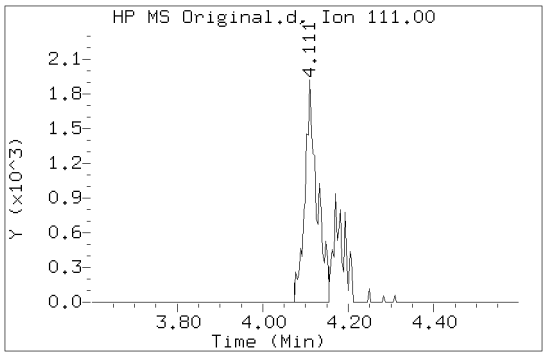
AREA
3536
HEIGHT
2165
20-Jul-2023
15:04
linh
pham



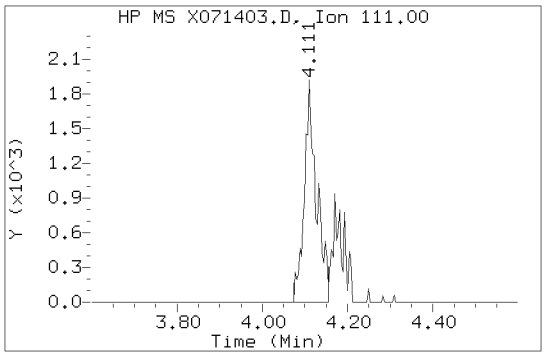
AFTER
MASS
113
AREA
3536
HEIGHT
2165
20-Jul-2023
15:04
linh
pham



BEFORE
MASS
111
AREA
3831
HEIGHT
1919
20-Jul-2023
15:04
linh
pham



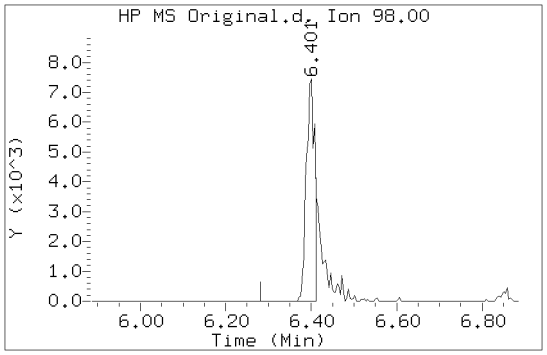
AFTER
MASS
111
AREA
3831
HEIGHT
1919
20-Jul-2023
15:04
linh
pham



Toluene-d8 (2037-26-5)

Reason Code:

BEFORE
MASS
98
AREA
10379
HEIGHT
7449
20-Jul-2023
15:04
linh
pham



AFTER
MASS
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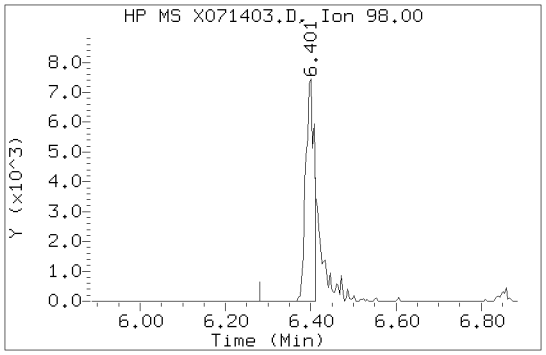
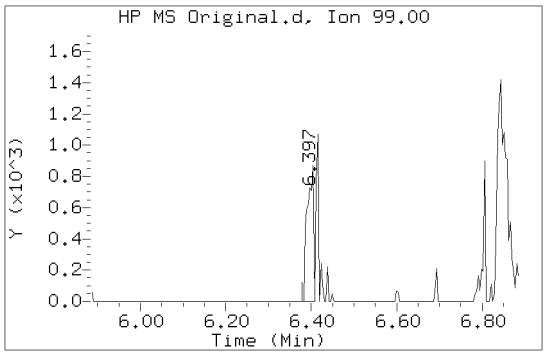
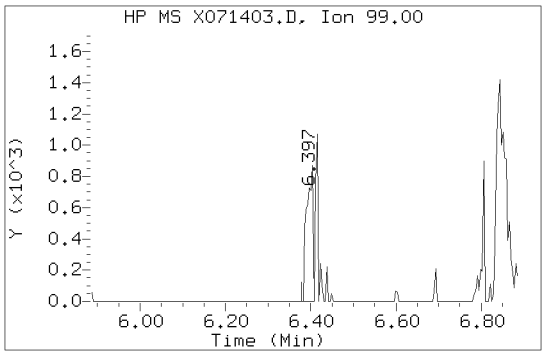
AREA
10379
HEIGHT
7449
20-Jul-2023
15:04
linh
pham



BEFORE
MASS
99
AREA
897
HEIGHT
727
20-Jul-2023
15:04
linh
pham



AFTER
MASS
99
AREA
897
HEIGHT
727
20-Jul-2023
15:04
linh
pham



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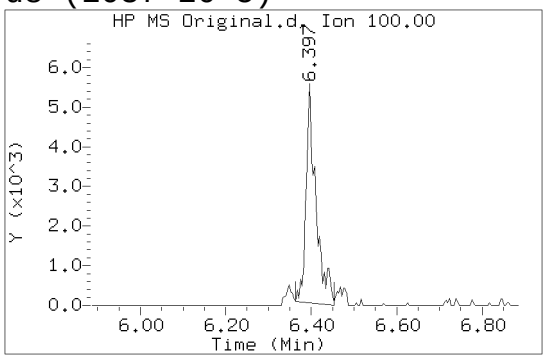
Inj Date : 14-JUL-2023 12:22
InstruID : voa6.i
LabSampID : VSTD000.5

Toluene-d8 (2037-26-5)

Reason Code:

BEFORE

MASS
100
AREA
8943
HEIGHT
5534
20-Jul-2023
15:04
linh
pham



AFTER

MASS
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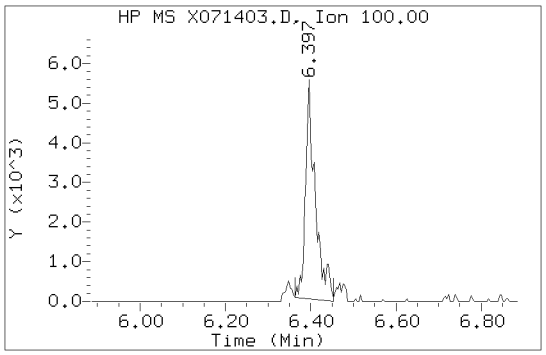
AREA
8943
HEIGHT
5534
20-Jul-2023
15:04
linh
pham



4-Bromofluorobenzene (460-00-4)

Reason Code:

BEFORE

MASS
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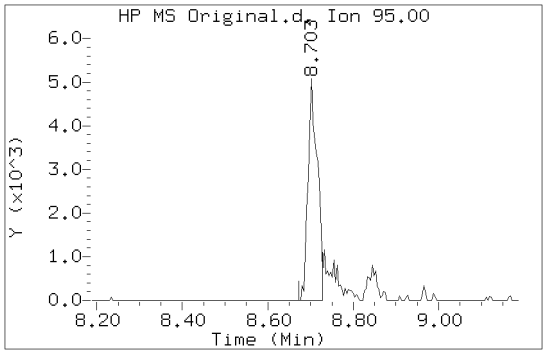
AREA
7819
HEIGHT
5079
20-Jul-2023
15:04
linh
pham



AFTER

MASS
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AREA
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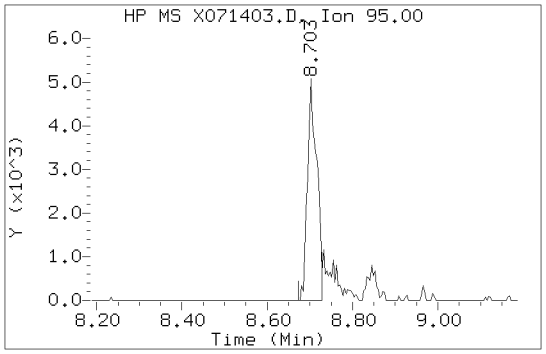
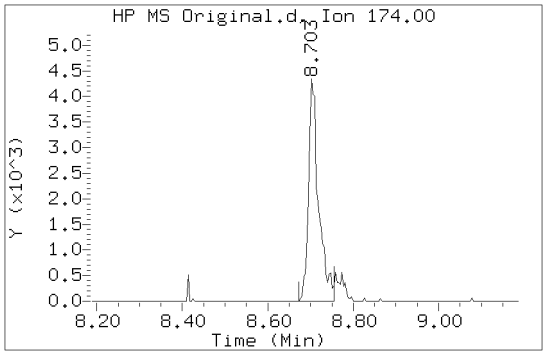
HEIGHT
5079
20-Jul-2023
15:04
linh
pham



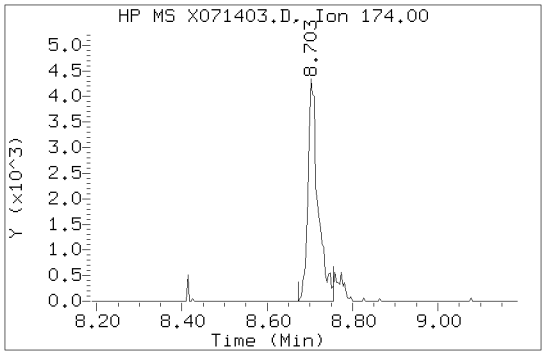
BEFORE

MASS
174
AREA
7142
HEIGHT
4342
20-Jul-2023
15:04
linh
pham



AFTER

MASS
174
AREA
7142
HEIGHT
4342
20-Jul-2023
15:04
linh
pham



BEFORE

MASS
176
AREA
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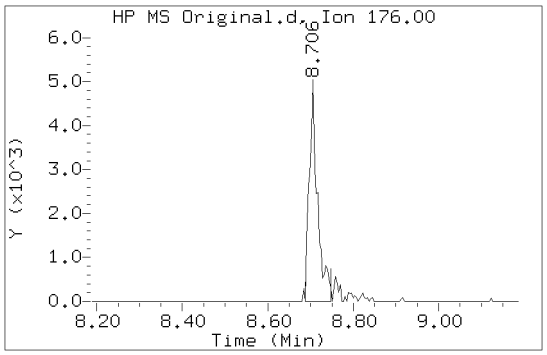
HEIGHT
5044
20-Jul-2023
15:04
linh
pham



AFTER

MASS
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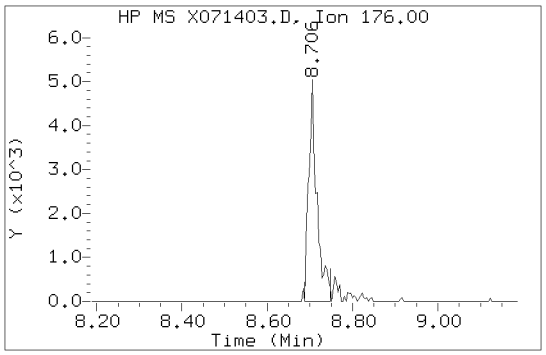
AREA
6702
HEIGHT
5044
20-Jul-2023
15:04
linh
pham



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230714.b\X071404.D Page 1
Report Date: 20-Jul-2023 15:05

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230714.b\X071404.D
Lab Smp Id: VSTD001 Client Smp ID: VSTD001
Inj Date : 14-JUL-2023 13:02
Operator : PC Inst ID: voa6.i
Smp Info : VSTD001;VSTD001;1;3;
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230714.b\8260W.m
Meth Date : 20-Jul-2023 15:05 voa6.i Quant Type: ISTD
Cal Date : 14-JUL-2023 12:22 Cal File: X071403.D
Als bottle: 5 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1	Pentafluorobenzene	168	4.178	4.178	(1.000)	527854	50.0000	
2	Dichlorodifluoromethane	85	0.976	0.976	(0.234)	3668	1.00000	1.76
3	Chloromethane	50	1.081	1.081	(0.259)	7000	1.00000	0.87
4	Propionitrile	54	3.690	3.690	(0.883)	10495	10.0000	10.03(aM)
5	Vinyl Chloride	62	1.149	1.149	(0.275)	5610	1.00000	0.82
6	Bromomethane	94	1.344	1.344	(0.322)	2584	1.00000	0.91
7	Chloroethane	64	1.407	1.407	(0.337)	3779	1.00000	0.96
8	Trichlorofluoromethane	101	1.561	1.561	(0.374)	5888	1.00000	0.85(M)
9	Acrolein	56	1.861	1.861	(0.446)	510	2.00000	3.65(aM)
11	1,1-Dichloroethene	96	1.913	1.913	(0.458)	3525	1.00000	0.91(M)
12	Isobutyl Alcohol	43	4.687	4.687	(1.122)	16938	20.0000	16.92(aM)
13	Acetonitrile	39	2.198	2.198	(0.526)	7835	10.0000	10.58(a)
14	Allyl Chloride	41	2.202	2.202	(0.527)	19290	1.00000	1.11(a)
15	Iodomethane	142	2.030	2.030	(0.486)	4792	2.00000	4.73(M)
16	Acrylonitrile	53	2.551	2.551	(0.611)	4763	2.00000	1.85(M)
18	Methyl tert-butyl ether	73	2.543	2.543	(0.609)	15895	1.00000	1.10
19	Carbon Disulfide	76	2.071	2.071	(0.496)	21621	2.00000	1.77
20	trans-1,2-Dichloroethene	96	2.536	2.536	(0.607)	3665	1.00000	0.81
21	Vinyl Acetate	43	3.015	3.015	(0.722)	36157	2.00000	1.95
22	1,1-Dichloroethane	63	2.929	2.929	(0.701)	9261	1.00000	0.94

23 Chloroprene	53	1.786	1.786 (0.428)	2402	1.00000	1.01(aM)
24 2-Butanone	43	3.686	3.686 (0.882)	5549	2.00000	1.97(M)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	25 Methacrylonitrile	41	3.874	3.874	(0.927)	6195	1.00000	0.90(aM)
	26 2,2-Dichloropropane	77	3.518	3.518	(0.842)	7001	1.00000	1.12(M)
	27 cis-1,2-Dichloroethene	96	3.540	3.540	(0.847)	5828	1.00000	1.02(M)
	28 Chloroform	83	3.915	3.915	(0.937)	10007	1.00000	0.99
	29 Bromochloromethane	128	3.799	3.799	(0.909)	3002	1.00000	0.94(M)
	31 1,1,1-Trichloroethane	97	4.084	4.084	(0.978)	6398	1.00000	0.82(M)
	32 1,1-Dichloropropene	75	4.286	4.286	(0.863)	6097	1.00000	0.91(M)
	33 1,2-Dichloroethane	62	4.564	4.564	(0.919)	9069	1.00000	1.01
	34 Carbon Tetrachloride	117	4.264	4.264	(0.859)	7002	1.00000	1.04(M)
$	35 1,2-Dichloroethane-d4	65	4.485	4.485	(1.074)	7805	1.00000	0.68
*	36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	814886	50.0000	
	37 Benzene	78	4.515	4.515	(0.909)	18433	1.00000	0.94
	38 Trichloroethene	130	5.212	5.212	(1.050)	4751	1.00000	0.86(a)
	39 Bromodichloromethane	83	5.730	5.730	(1.154)	6967	1.00000	0.93(aM)
	40 Methyl Methacrylate	41	5.628	5.628	(1.347)	7110	1.00000	1.11(a)
	41 2-Chloroethylvinyl ether	63	6.071	6.071	(1.223)	4176	2.00000	1.83(aM)
	42 1,2-Dichloropropane	63	5.441	5.441	(1.096)	5153	1.00000	0.82(aM)
	43 2-Nitropropane	43	5.992	5.992	(1.434)	2054	1.00000	0.97(aM)
	44 Dibromomethane	93	5.557	5.557	(1.119)	3511	1.00000	0.98(a)
	45 4-Methyl-2-Pentanone	43	6.337	6.337	(0.826)	14106	2.00000	1.87(aM)
	46 cis-1,3-Dichloropropene	75	6.168	6.168	(1.242)	7361	1.00000	0.85(a)
*	47 Chlorobenzene-d5	117	7.668	7.668	(1.000)	765384	50.0000	
$	48 Toluene-d8	98	6.397	6.397	(0.834)	21847	1.00000	1.10(aM)
	49 Ethyl Methacrylate	69	6.730	6.730	(1.356)	5749	1.00000	1.07(aM)
	50 Toluene	91	6.453	6.453	(0.842)	17466	1.00000	0.84(a)
	51 trans-1,3-Dichloropropene	75	6.693	6.693	(1.348)	6303	1.00000	0.87(a)
	52 2-Hexanone	43	7.113	7.113	(0.928)	10319	2.00000	2.08(aM)
	53 1,1,2-Trichloroethane	83	6.843	6.843	(0.892)	4429	1.00000	1.01(a)
	54 1,3-Dichloropropane	76	6.985	6.985	(0.911)	8584	1.00000	0.96(a)
	55 Dibromochloromethane	129	7.180	7.180	(0.936)	6003	1.00000	0.95(a)
	56 Tetrachloroethene	164	6.929	6.929	(0.904)	3431	1.00000	0.80(aM)
	57 1,2-Dibromoethane	107	7.270	7.270	(0.948)	4879	1.00000	0.97(a)
	58 1-Chlorohexane	55	7.705	7.705	(1.552)	6663	1.00000	1.01(aM)
	59 Chlorobenzene	112	7.698	7.698	(1.004)	13305	1.00000	0.92(a)
	60 1,1,1,2-Tetrachloroethane	131	7.776	7.776	(1.014)	5021	1.00000	0.89(a)
	61 Ethylbenzene	106	7.806	7.806	(1.018)	6243	1.00000	0.86(a)
	62 m,p-Xylenes	106	7.915	7.915	(1.032)	15703	2.00000	1.73(aM)
	63 o-Xylene	106	8.249	8.249	(1.076)	7717	1.00000	0.89(a)
	64 Styrene	104	8.271	8.271	(1.079)	13315	1.00000	0.88(aM)
	66 Bromoform	173	8.421	8.421	(1.098)	3238	1.00000	0.79(TaM)
	67 Isopropylbenzene	105	8.567	8.567	(1.117)	17710	1.00000	0.80(a)
	68 1,1,2,2-Tetrachloroethane	83	8.841	8.841	(0.915)	6483	1.00000	0.99(a)
$	69 4-Bromofluorobenzene	95	8.702	8.702	(1.135)	11517	1.00000	1.09(aM)
*	70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	389630	50.0000	
	71 1,2,3-Trichloropropane	75	8.871	8.871	(0.918)	5203	1.00000	1.00(aM)
	72 trans-1,4-Dichloro-2-butene	53	8.912	8.912	(1.162)	1951	1.00000	0.83(aM)
	73 n-Propylbenzene	91	8.920	8.920	(0.923)	19793	1.00000	0.84(a)
	74 Bromobenzene	156	8.815	8.815	(0.912)	5922	1.00000	0.97(a)
	75 1,3,5-Trimethylbenzene	105	9.077	9.077	(0.939)	14649	1.00000	0.83(aM)
	76 2-Chlorotoluene	91	8.980	8.980	(0.929)	15937	1.00000	1.00(aM)
	77 4-Chlorotoluene	91	9.085	9.085	(0.940)	14190	1.00000	0.81(a)
	78 tert-Butylbenzene	119	9.339	9.339	(0.967)	12560	1.00000	0.83(a)

79 1,2,4-Trimethylbenzene	105	9.388	9.388 (0.972)	14383	1.00000	0.81(a)
81 sec-Butylbenzene	105	9.519	9.519 (0.985)	16259	1.00000	0.80(a)

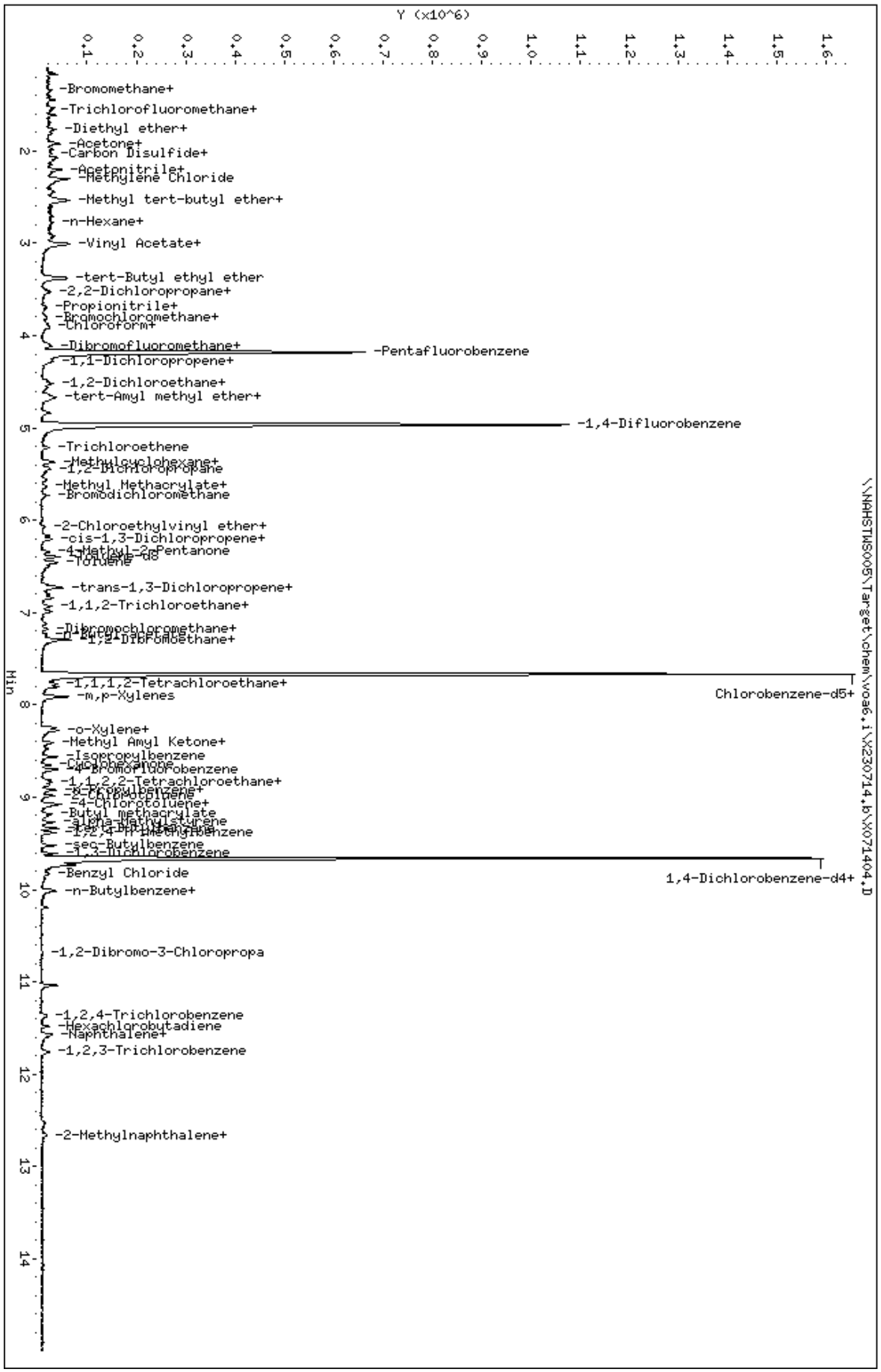
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
82	p-Isopropyltoluene	119	9.651	9.651	(0.999)	15092	1.00000	0.81(aM)
83	1,3-Dichlorobenzene	146	9.609	9.609	(0.995)	9170	1.00000	0.86(a)
84	1,4-Dichlorobenzene	146	9.684	9.684	(1.002)	10311	1.00000	0.88(a)
86	Benzyl Chloride	91	9.827	9.827	(1.282)	10259	1.00000	3.09(aM)
87	n-Butylbenzene	91	10.014	10.014	(1.036)	13321	1.00000	0.86(aM)
88	1,2-Dichlorobenzene	146	10.003	10.003	(1.035)	9791	1.00000	0.93(aM)
89	1,2-Dibromo-3-Chloropropane	155	10.700	10.700	(1.107)	831	1.00000	1.84(aM)
90	1,2,4-Trichlorobenzene	180	11.364	11.364	(1.176)	7113	1.00000	0.99(aM)
91	Hexachlorobutadiene	225	11.480	11.480	(1.188)	2109	1.00000	2.96(a)
92	Naphthalene	128	11.574	11.574	(1.198)	18131	1.00000	1.02(aM)
93	1,2,3-Trichlorobenzene	180	11.765	11.765	(1.218)	6973	1.00000	1.04(a)
146	Methyl acetate	43	2.243	2.243	(0.537)	4992	1.00000	1.06(aM)
138	Freon TF	101	1.917	1.917	(0.459)	2818	1.00000	0.25(aM)
141	Cyclohexane	56	4.121	4.121	(0.987)	7673	1.00000	0.83(aM)
142	Tetrahydrofuran	42	3.874	3.874	(0.927)	2815	2.00000	2.07(aM)
147	Methylcyclohexane	55	5.370	5.370	(1.082)	15783	1.00000	0.91(aM)
135	1,4-Dioxane	88	5.613	5.613	(1.344)	1290	20.0000	20.56(M)
132	n-Butanol	56	5.370	5.370	(1.285)	3103	20.0000	17.65(aM)
131	Methyl Acrylate	55	3.750	3.750	(0.898)	5778	1.00000	0.80(aM)
133	Ethyl Acrylate	55	5.370	5.370	(1.285)	18196	1.00000	1.04(M)
136	n-Hexane	57	2.776	2.776	(0.664)	5000	1.00000	0.27(aM)
139	Diethyl ether	59	1.767	1.767	(0.423)	5211	1.00000	1.05(a)
148	Tert-butyl alcohol	59	2.442	2.442	(0.585)	12965	20.0000	19.46(M)
149	Isopropyl alcohol	45	2.097	2.097	(0.502)	9372	20.0000	22.67(TM)
156	Diisopropyl ether	45	3.012	3.012	(0.721)	24757	1.00000	1.13(Ta)
166	1,2,3-Trimethylbenzene	105	9.733	9.733	(1.007)	19017	1.00000	1.05(a)
167	Ethanol	45	1.703	1.703	(0.408)	1613	20.0000	3.59(aM)
172	tert-Butyl formate	59	4.639	4.639	(1.110)	11427	2.00000	2.02(aM)
173	3,3-Dimethyl-1-butanol	57	7.293	7.293	(0.951)	16922	20.0000	20.55(M)
174	tert-Amyl methyl ether	73	4.669	4.669	(1.118)	19717	1.00000	1.13(a)
175	tert-Butyl ethyl ether	59	3.387	3.387	(0.811)	23746	1.00000	1.06(a)
176	tert-Amyl alcohol	59	4.639	4.639	(1.110)	10855	20.0000	18.82
151	4-Methyl-2-pentanol	45	6.727	6.727	(1.355)	35175	20.0000	20.14(M)
180	1-Methylnaphthalene	142	12.657	12.657	(1.310)	6480	1.00000	(a)
140	1,3-Butadiene	54	1.167	1.167	(0.280)	6040	1.00000	0.89(aM)
152	Amyl alcohol	42	6.989	6.989	(0.912)	3944	20.0000	17.91(M)
158	Dichlorofluoromethane	67	1.531	1.531	(0.367)	9743	1.00000	1.14(M)
159	Propylene oxide	43	1.805	1.805	(0.432)	1409	2.00000	2.17(aM)
161	3-Methyl-1-butanol	55	6.944	6.944	(0.906)	3623	20.0000	19.22(M)
162	Butyl acrylate	55	8.279	8.279	(1.080)	13586	1.00000	0.93(a)
163	Butyl methacrylate	41	9.178	9.178	(0.950)	9406	1.00000	1.00(a)
164	Dicyclopentadiene	66	9.677	9.677	(1.002)	24319	1.00000	1.08(aM)
182	Epichlorohydrin	57	6.119	6.119	(1.233)	2383	4.00000	3.91(aM)
M 94	1,2-Dichloroethylene (total)	96				9493	2.00000	(a)
130	Ethyl Acetate	43	3.713	3.713	(0.889)	7207	1.00000	0.91(TaM)
134	Cyclohexanone	55	8.646	8.646	(0.895)	7972	20.0000	22.98(aM)
185	Isoprene	39	1.778	1.778	(0.426)	1515	1.00000	0.87(a)
188	Isopropyl acetate	43	4.687	4.687	(0.944)	23748	1.00000	1.10(a)
187	n-Amyl acetate	43	8.474	8.474	(1.105)	15950	1.00000	1.13(aM)
189	n-Butyl acetate	43	7.233	7.233	(0.943)	9795	1.00000	0.83(aM)
150	Allyl alcohol	57	2.776	2.776	(0.664)	5000	20.0000	3.31(aM)
194	Acetaldehyde	44	1.216	1.216	(0.291)	5117	4.00000	(aM)

195 Methyl Amyl Ketone	43	8.406	8.406 (1.096)	14469	1.00000	0.90(a)
200 Dimethyl Disulfide	94	6.202	6.202 (0.809)	9361	1.00000	0.90(a)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
202 Isobutylene	41	1.246	1.246	(0.298)	875	1.00000	1.00(aM)
205 2-Ethylhexyl Acrylate	55	11.562	11.562	(1.197)	8780	1.00000	0.88(aM)

QC Flag Legend

T - Target compound detected outside RT window.
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.



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Sample Info: VSTD001;VSTD001;1;3;
Purge Volume: 5.0
Column phase: DB624

Instrument: voa6.i
Operator: PC
Column diameter: 0.18

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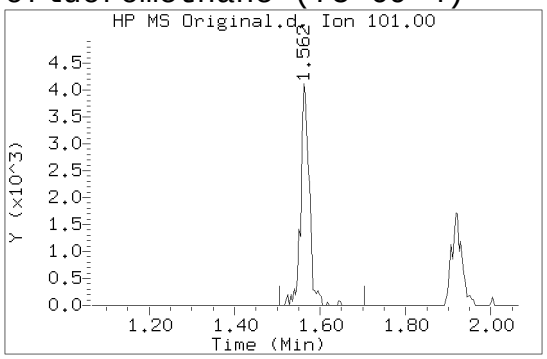
Inj Date : 14-JUL-2023 13:02
InstruID : voa6.i
LabSampID : VSTD001

Trichlorofluoromethane (75-69-4)

Reason Code:

BEFORE
MASS
101
AREA
5888
HEIGHT
4116
20-Jul-2023
15:04
linh
pham



AFTER
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20-Jul-2023
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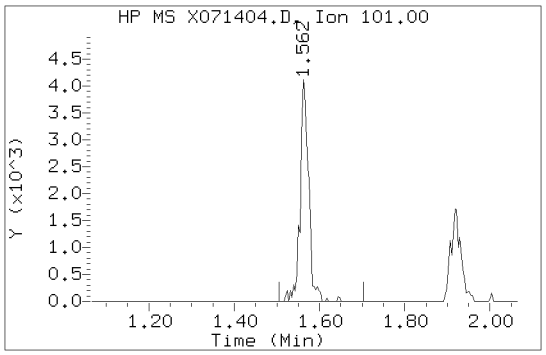

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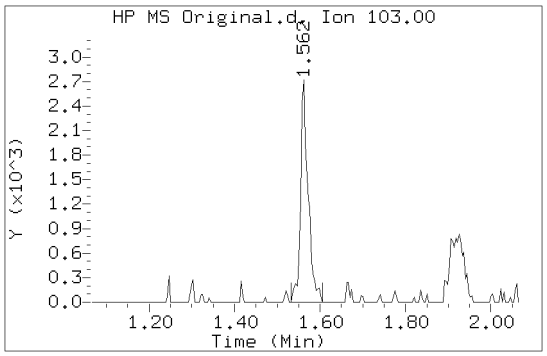

AFTER
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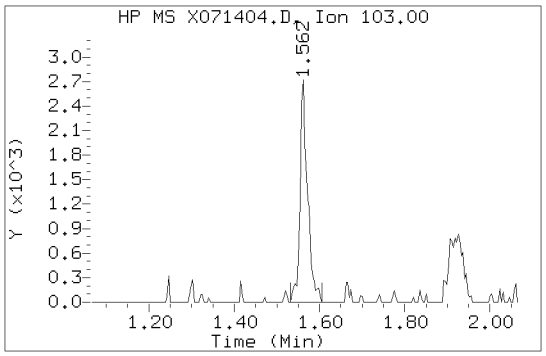

1,1-Dichloroethene (75-35-4)

Reason Code:

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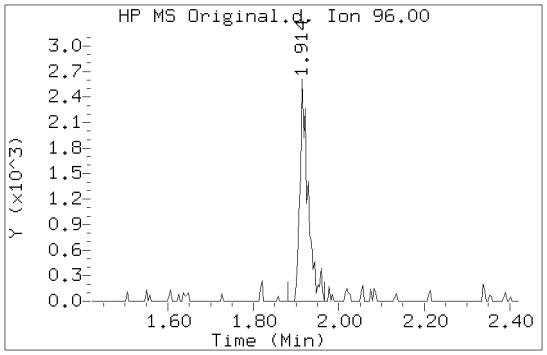

AFTER
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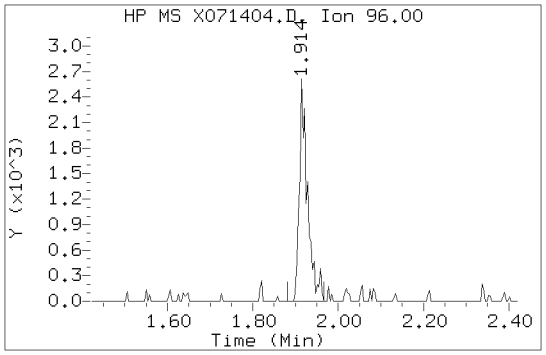

BEFORE
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5846
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20-Jul-2023
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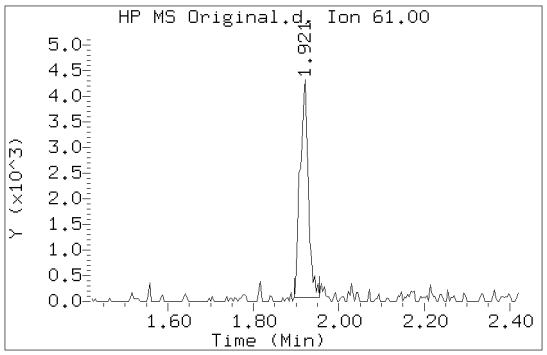

AFTER
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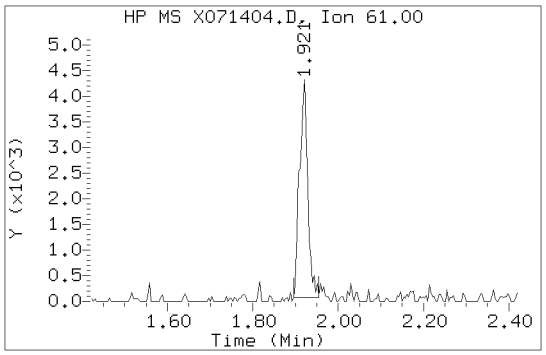

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LabSampID : VSTD001

1,1-Dichloroethene (75-35-4)

Reason Code:

BEFORE

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15:04
linh
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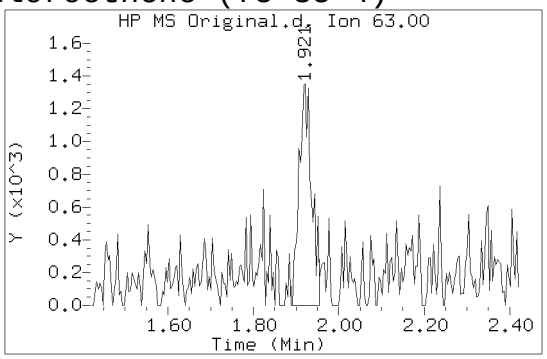

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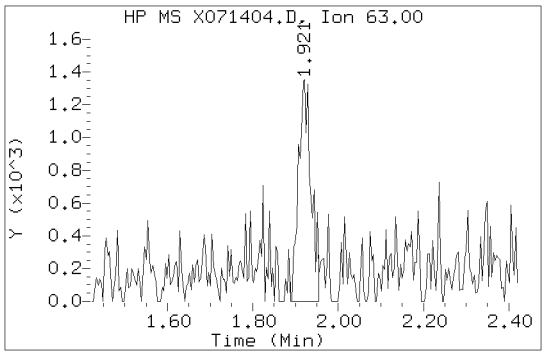

Iodomethane (74-88-4)

Reason Code:

BEFORE

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AREA
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HEIGHT
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20-Jul-2023
15:04
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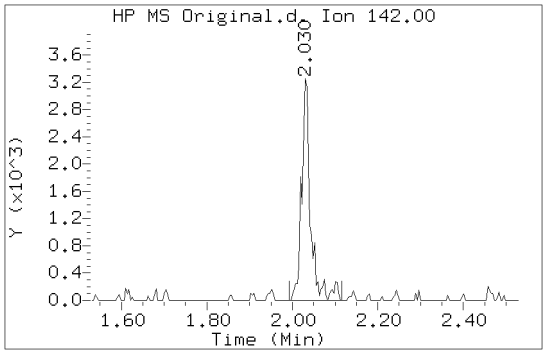

AFTER

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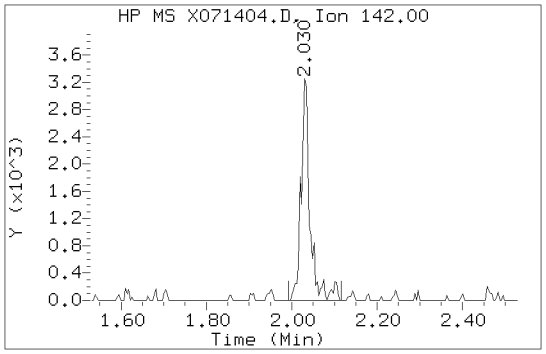

BEFORE

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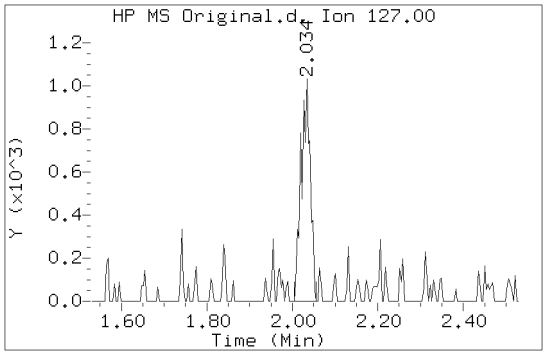

AFTER

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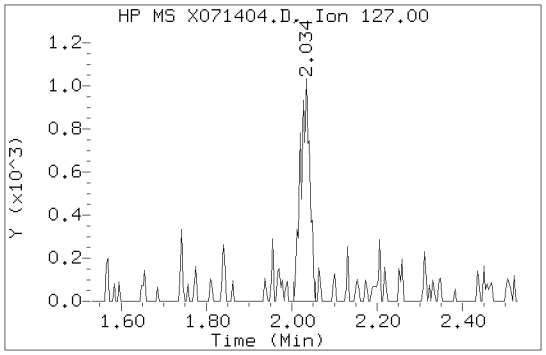

BEFORE

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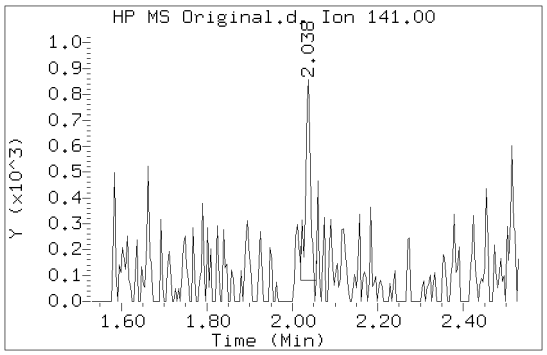
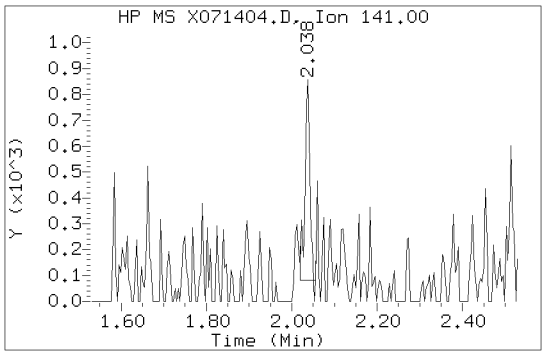
AREA
645
HEIGHT
775
20-Jul-2023
15:04
linh
pham



AFTER

MASS
141
AREA
645
HEIGHT
775
20-Jul-2023
15:04
linh
pham



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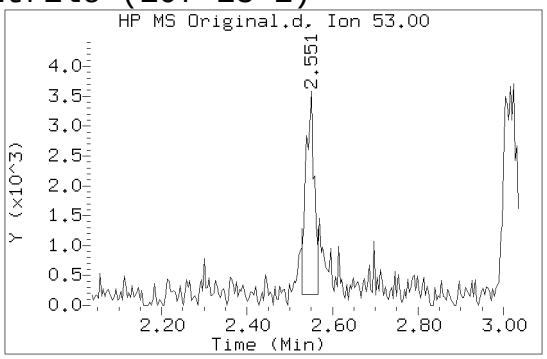
Inj Date : 14-JUL-2023 13:02
InstruID : voa6.i
LabSampID : VSTD001

Acrylonitrile (107-13-1)

Reason Code:

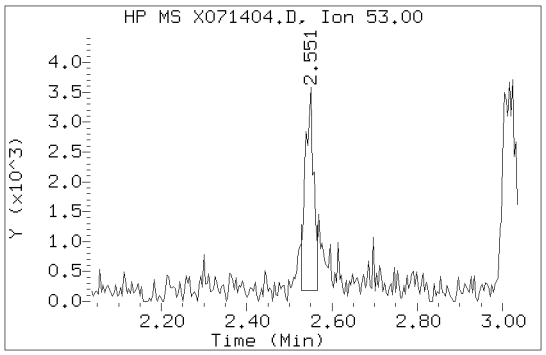
BEFORE

MASS
53
AREA
4763
HEIGHT
3403
20-Jul-2023
15:04
linh
pham



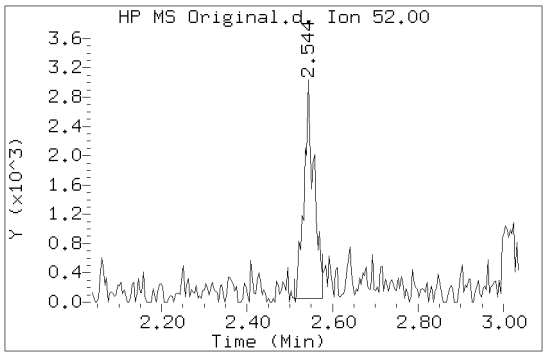
AFTER

MASS
53
AREA
4763
HEIGHT
3403
20-Jul-2023
15:04
linh
pham



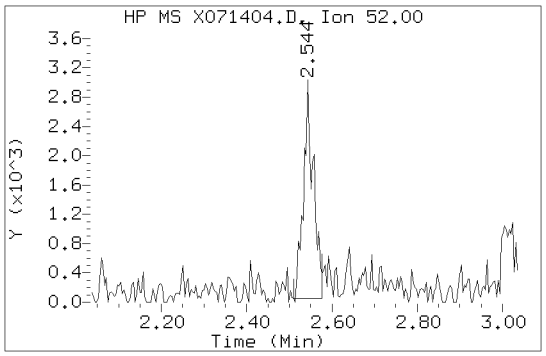
BEFORE

MASS
52
AREA
4911
HEIGHT
2983
20-Jul-2023
15:04
linh
pham



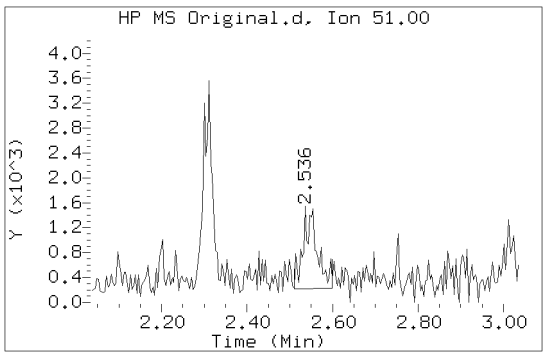
AFTER

MASS
52
AREA
4911
HEIGHT
2983
20-Jul-2023
15:04
linh
pham



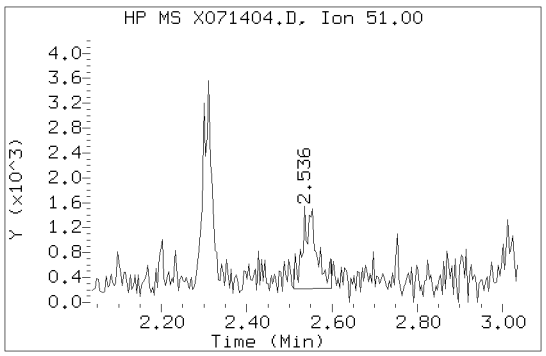
BEFORE

MASS
51
AREA
3020
HEIGHT
1324
20-Jul-2023
15:04
linh
pham



AFTER

MASS
51
AREA
3020
HEIGHT
1324
20-Jul-2023
15:04
linh
pham

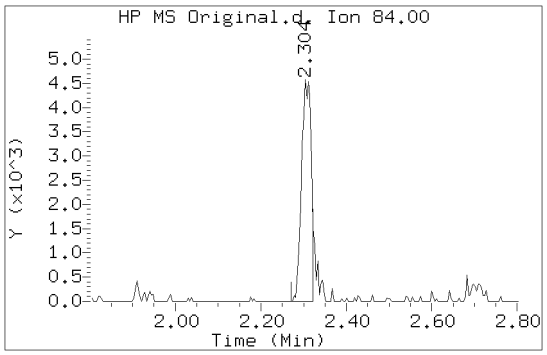


Methylene Chloride (75-09-2)

Reason Code:

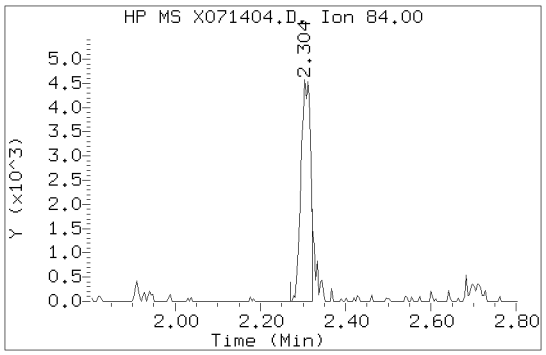
BEFORE

MASS
84
AREA
7389
HEIGHT
4576
20-Jul-2023
15:04
linh
pham



AFTER

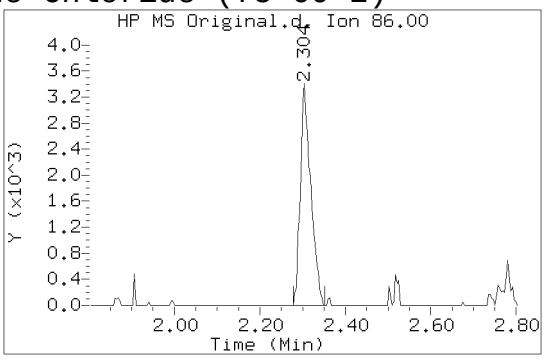
MASS
84
AREA
7389
HEIGHT
4576
20-Jul-2023
15:04
linh
pham



Data File : \\NAHSTWS005\Target\chem\voa6.i\X230714.b\X071404.D
Inj Date : 14-JUL-2023 13:02
InstruID : voa6.i
LabSampID : VSTD001

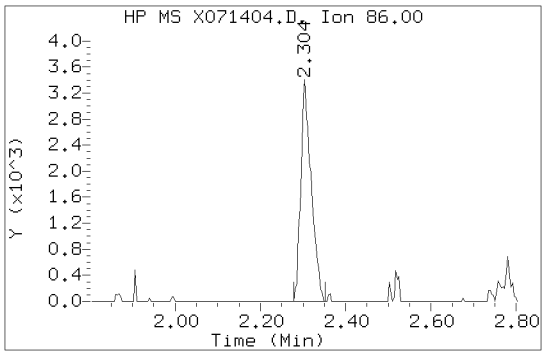
Methylene Chloride (75-09-2)

BEFORE
MASS
86
AREA
5890
HEIGHT
3405
20-Jul-2023
15:04
linh
pham

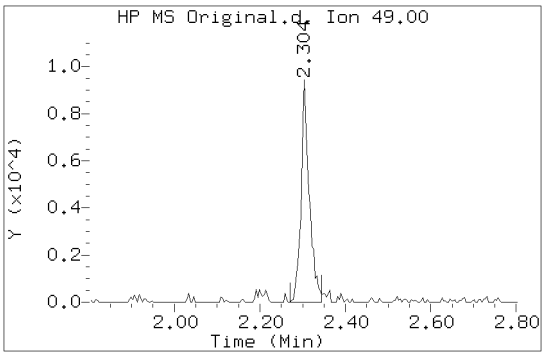


Reason Code:

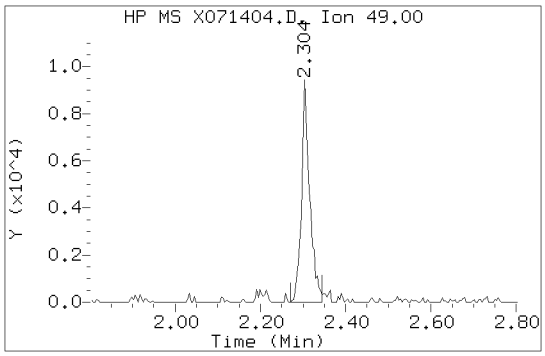
AFTER
MASS
86
AREA
5890
HEIGHT
3405
20-Jul-2023
15:04
linh
pham



BEFORE
MASS
49
AREA
12826
HEIGHT
9432
20-Jul-2023
15:04
linh
pham

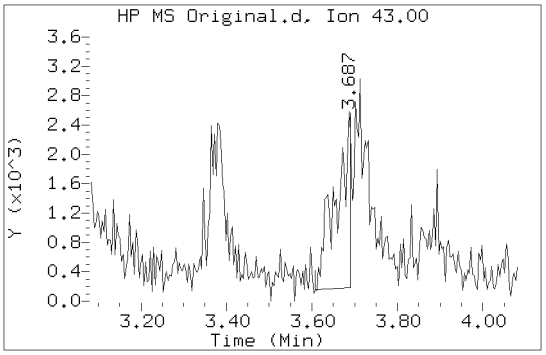


AFTER
MASS
49
AREA
12826
HEIGHT
9432
20-Jul-2023
15:04
linh
pham



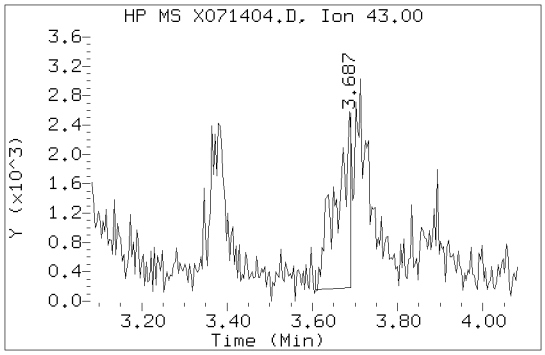
2-Butanone (78-93-3)

BEFORE
MASS
43
AREA
5549
HEIGHT
2403
20-Jul-2023
15:04
linh
pham

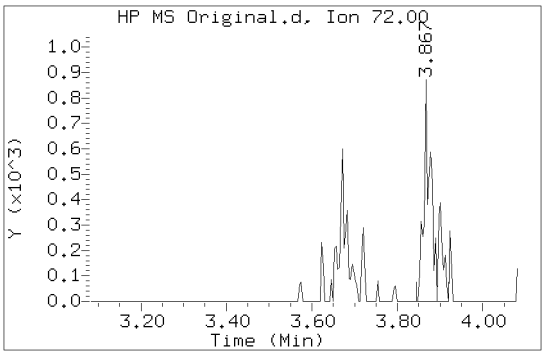


Reason Code:

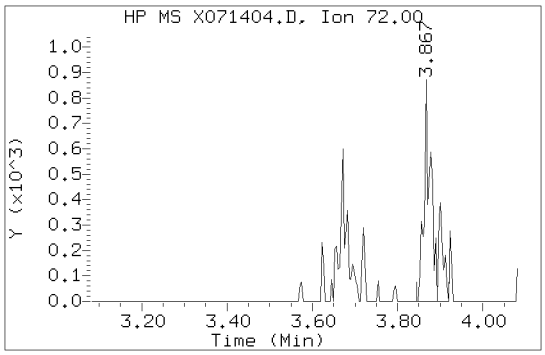
AFTER
MASS
43
AREA
5549
HEIGHT
2403
20-Jul-2023
15:04
linh
pham



BEFORE
MASS
72
AREA
1227
HEIGHT
872
20-Jul-2023
15:04
linh
pham



AFTER
MASS
72
AREA
1227
HEIGHT
872
20-Jul-2023
15:04
linh
pham



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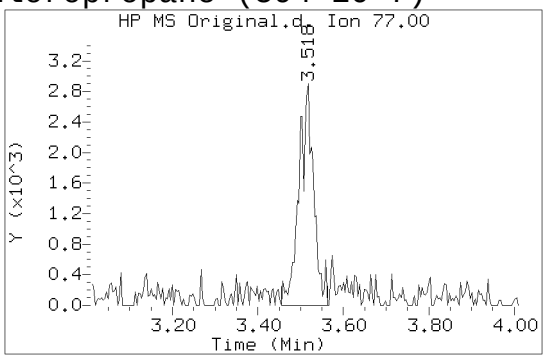
Inj Date : 14-JUL-2023 13:02
InstruID : voa6.i
LabSampID : VSTD001

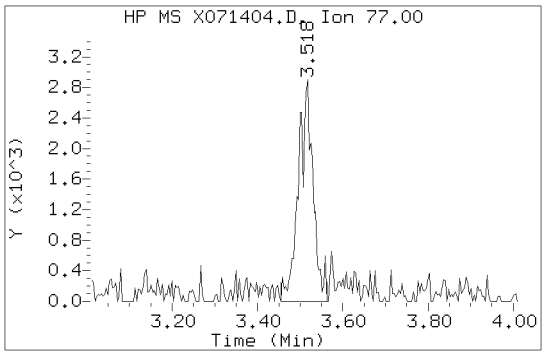
2,2-Dichloropropane (594-20-7)

Reason Code:

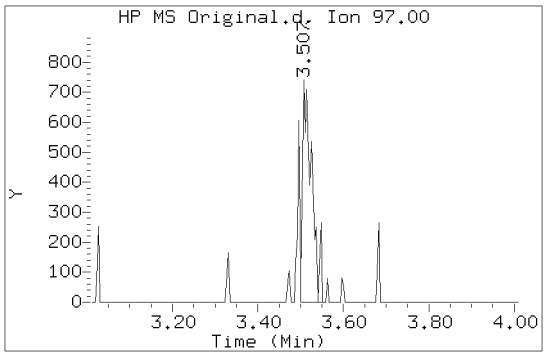
BEFORE
MASS
77
AREA
7001
HEIGHT
2901
20-Jul-2023
15:04
linh
pham



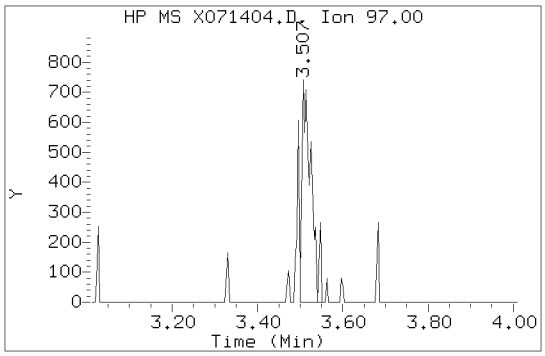
AFTER
MASS
77
AREA
7001
HEIGHT
2901
20-Jul-2023
15:04
linh
pham



BEFORE
MASS
97
AREA
1144
HEIGHT
741
20-Jul-2023
15:04
linh
pham



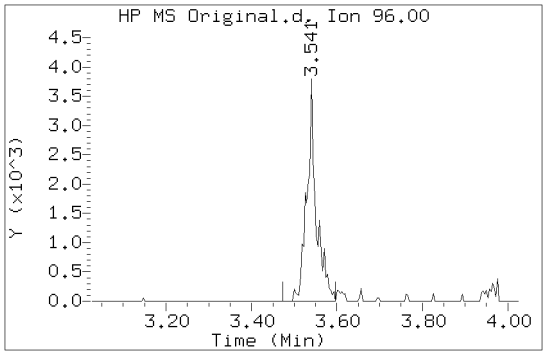
AFTER
MASS
97
AREA
1144
HEIGHT
741
20-Jul-2023
15:04
linh
pham



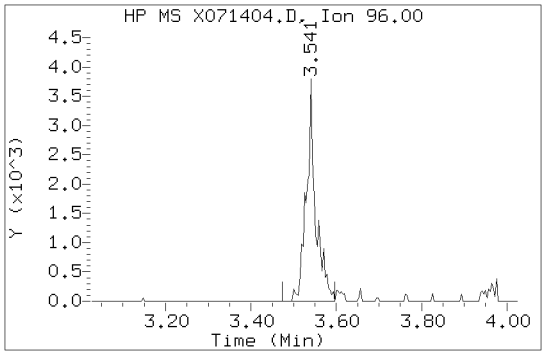
cis-1,2-Dichloroethene (156-59-2)

Reason Code:

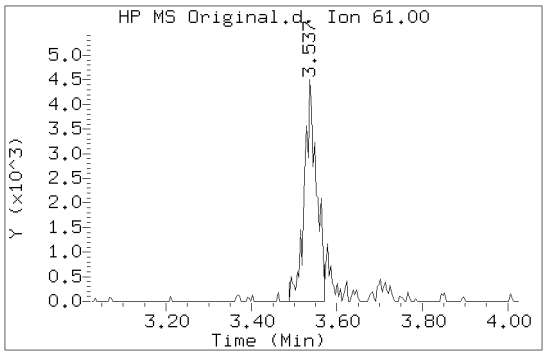
BEFORE
MASS
96
AREA
5828
HEIGHT
3797
20-Jul-2023
15:04
linh
pham



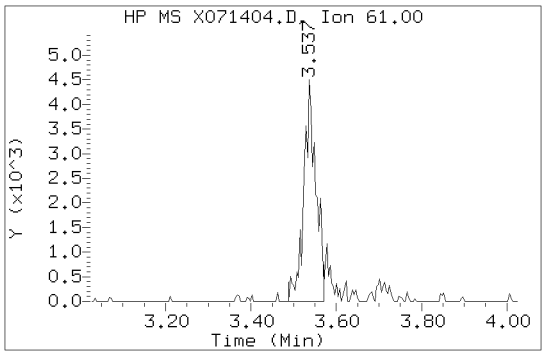
AFTER
MASS
96
AREA
5828
HEIGHT
3797
20-Jul-2023
15:04
linh
pham



BEFORE
MASS
61
AREA
9003
HEIGHT
4504
20-Jul-2023
15:04
linh
pham



AFTER
MASS
61
AREA
9003
HEIGHT
4504
20-Jul-2023
15:04
linh
pham



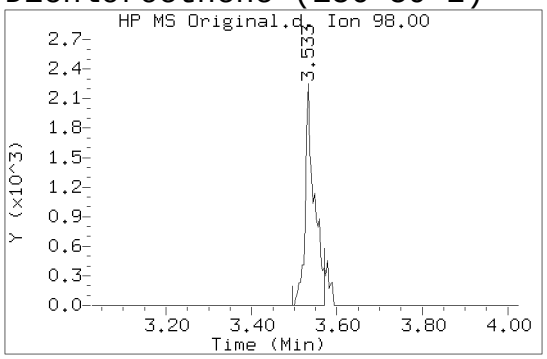
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230714.b\X071404.D
Inj Date : 14-JUL-2023 13:02
InstruID : voa6.i
LabSampID : VSTD001

cis-1,2-Dichloroethene (156-59-2)

Reason Code:

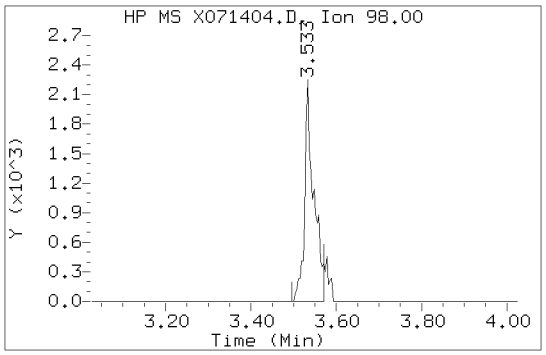
BEFORE

MASS
98
AREA
3384
HEIGHT
2251
20-Jul-2023
15:04
linh
pham



AFTER

MASS
98
AREA
3384
HEIGHT
2251
20-Jul-2023
15:04
linh
pham

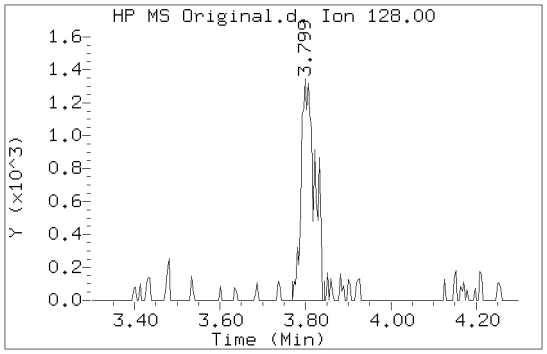


Bromochloromethane (74-97-5)

Reason Code:

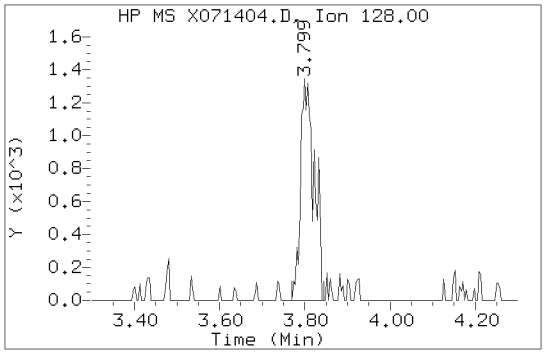
BEFORE

MASS
128
AREA
3002
HEIGHT
1346
20-Jul-2023
15:04
linh
pham



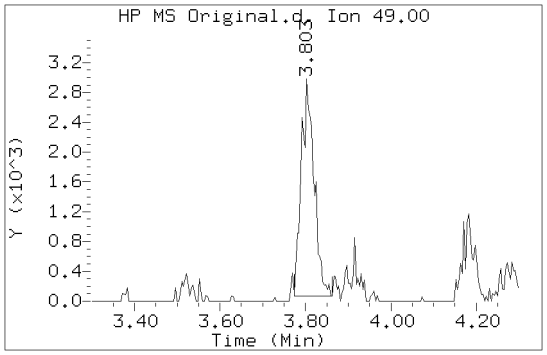
AFTER

MASS
128
AREA
3002
HEIGHT
1346
20-Jul-2023
15:04
linh
pham



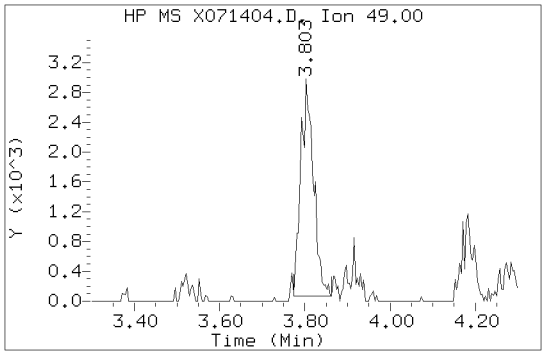
BEFORE

MASS
49
AREA
6119
HEIGHT
2913
20-Jul-2023
15:04
linh
pham



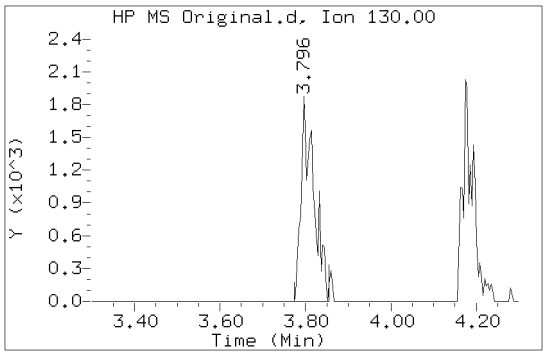
AFTER

MASS
49
AREA
6119
HEIGHT
2913
20-Jul-2023
15:04
linh
pham



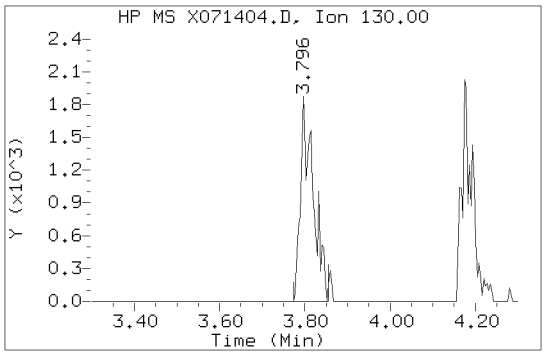
BEFORE

MASS
130
AREA
3970
HEIGHT
1875
20-Jul-2023
15:04
linh
pham



AFTER

MASS
130
AREA
3970
HEIGHT
1875
20-Jul-2023
15:04
linh
pham



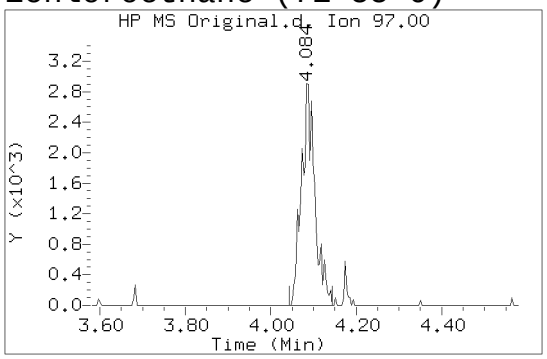
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230714.b\X071404.D
Inj Date : 14-JUL-2023 13:02
InstruID : voa6.i
LabSampID : VSTD001

1,1,1-Trichloroethane (71-55-6)

Reason Code:

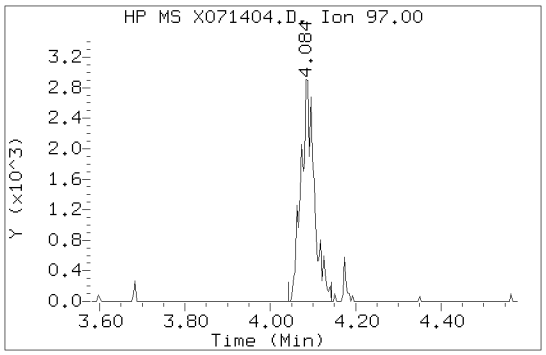
BEFORE

MASS
97
AREA
6398
HEIGHT
2905
20-Jul-2023
15:04
linh
pham



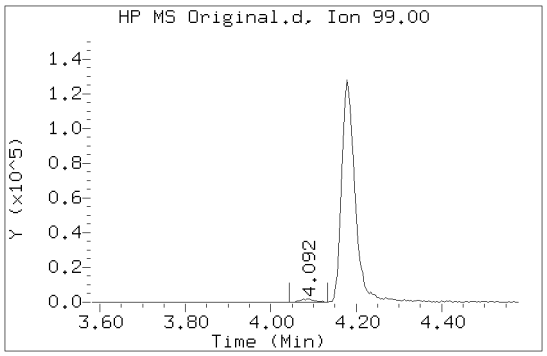
AFTER

MASS
97
AREA
6398
HEIGHT
2905
20-Jul-2023
15:04
linh
pham



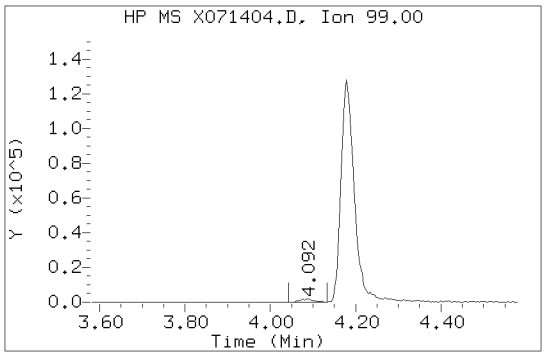
BEFORE

MASS
99
AREA
4128
HEIGHT
1962
20-Jul-2023
15:04
linh
pham



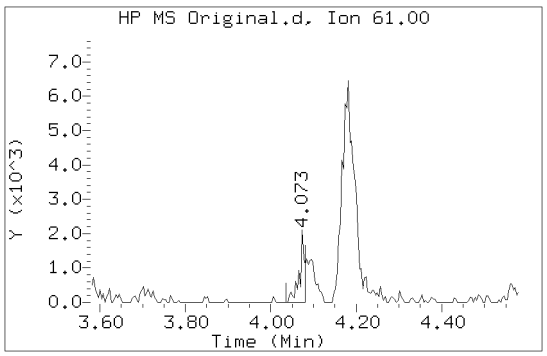
AFTER

MASS
99
AREA
4128
HEIGHT
1962
20-Jul-2023
15:04
linh
pham



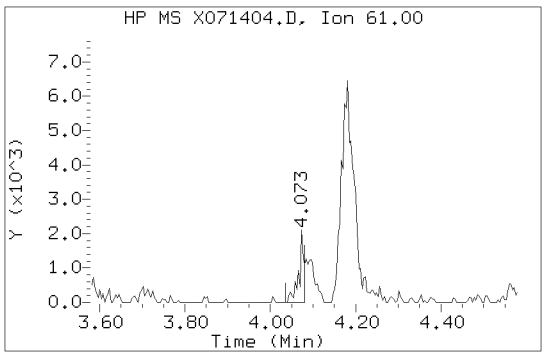
BEFORE

MASS
61
AREA
1719
HEIGHT
2107
20-Jul-2023
15:04
linh
pham



AFTER

MASS
61
AREA
1719
HEIGHT
2107
20-Jul-2023
15:04
linh
pham

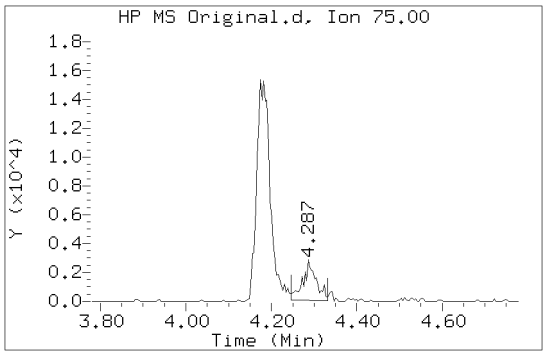


1,1-Dichloropropene (563-58-6)

Reason Code:

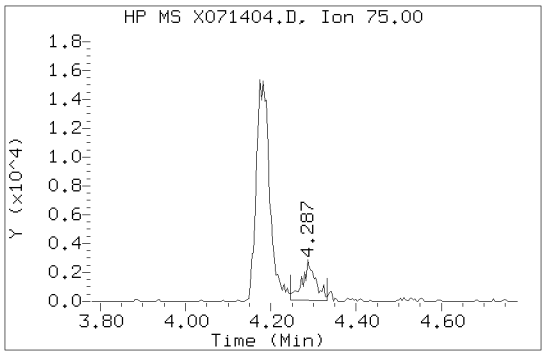
BEFORE

MASS
75
AREA
6097
HEIGHT
2831
20-Jul-2023
15:04
linh
pham



AFTER

MASS
75
AREA
6097
HEIGHT
2831
20-Jul-2023
15:04
linh
pham



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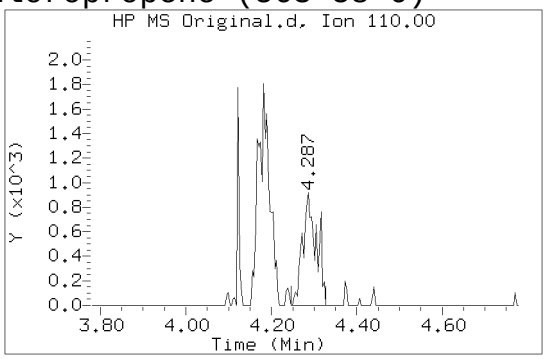
Inj Date : 14-JUL-2023 13:02
InstruID : voa6.i
LabSampID : VSTD001

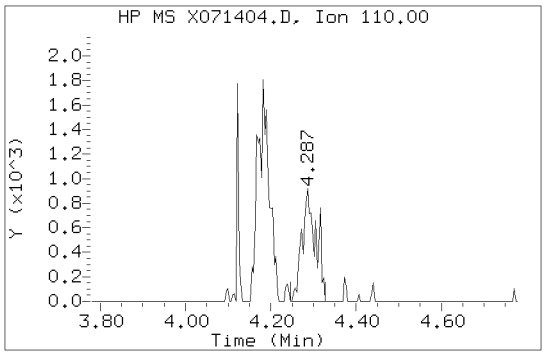
1,1-Dichloropropene (563-58-6)

Reason Code:

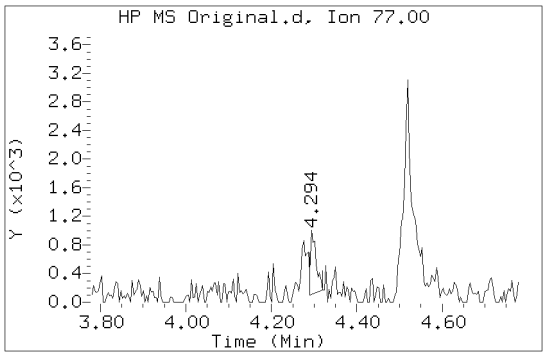
BEFORE
MASS
110
AREA
2079
HEIGHT
917
20-Jul-2023
15:04
linh
pham



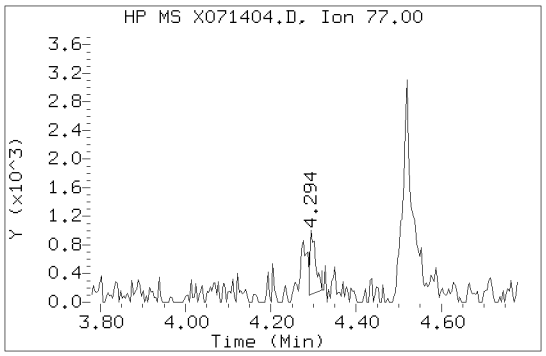
AFTER
MASS
110
AREA
2079
HEIGHT
917
20-Jul-2023
15:04
linh
pham



BEFORE
MASS
77
AREA
821
HEIGHT
892
20-Jul-2023
15:04
linh
pham



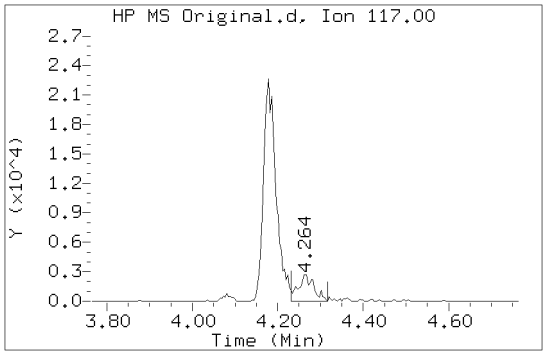
AFTER
MASS
77
AREA
821
HEIGHT
892
20-Jul-2023
15:04
linh
pham



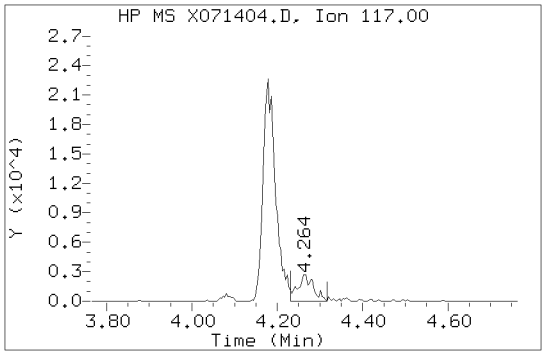
Carbon Tetrachloride (56-23-5)

Reason Code:

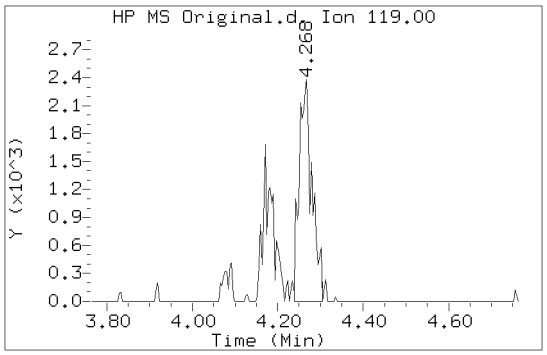
BEFORE
MASS
117
AREA
7002
HEIGHT
2701
20-Jul-2023
15:04
linh
pham



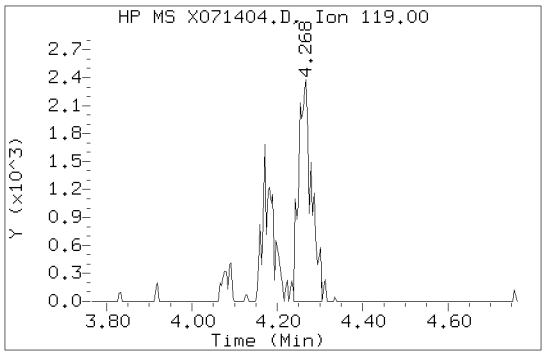
AFTER
MASS
117
AREA
7002
HEIGHT
2701
20-Jul-2023
15:04
linh
pham



BEFORE
MASS
119
AREA
5029
HEIGHT
2378
20-Jul-2023
15:04
linh
pham



AFTER
MASS
119
AREA
5029
HEIGHT
2378
20-Jul-2023
15:04
linh
pham



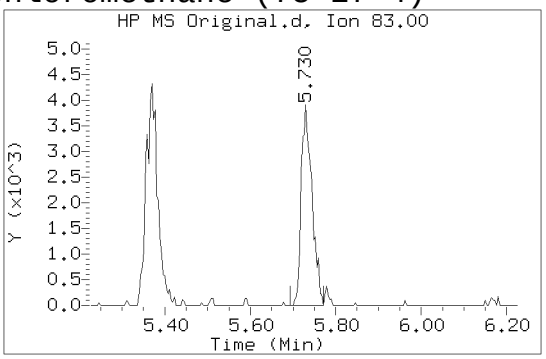
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230714.b\X071404.D
Inj Date : 14-JUL-2023 13:02
InstruID : voa6.i
LabSampID : VSTD001

Bromodichloromethane (75-27-4)

Reason Code:

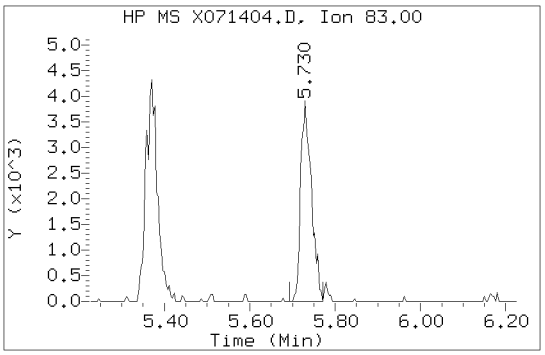
BEFORE

MASS
83
AREA
6967
HEIGHT
3917
20-Jul-2023
15:04
linh
pham



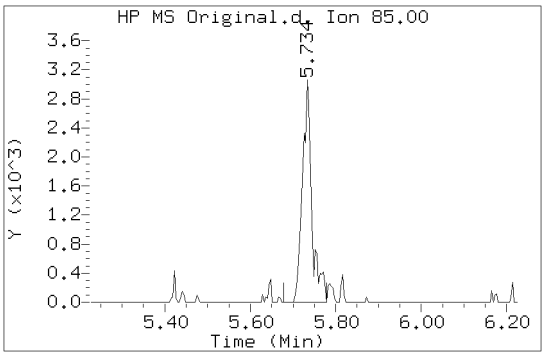
AFTER

MASS
83
AREA
6967
HEIGHT
3917
20-Jul-2023
15:04
linh
pham



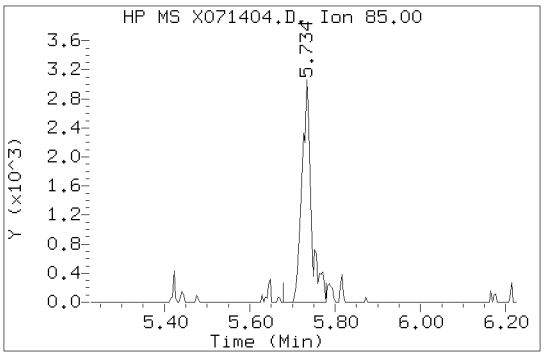
BEFORE

MASS
85
AREA
4797
HEIGHT
3061
20-Jul-2023
15:04
linh
pham



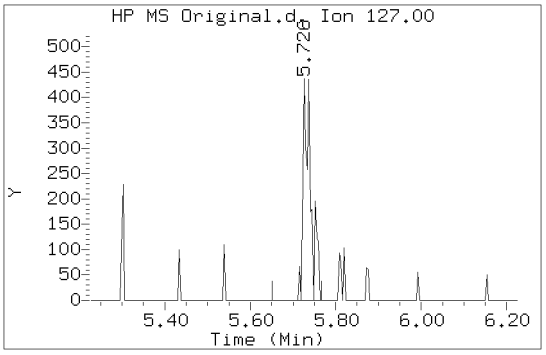
AFTER

MASS
85
AREA
4797
HEIGHT
3061
20-Jul-2023
15:04
linh
pham



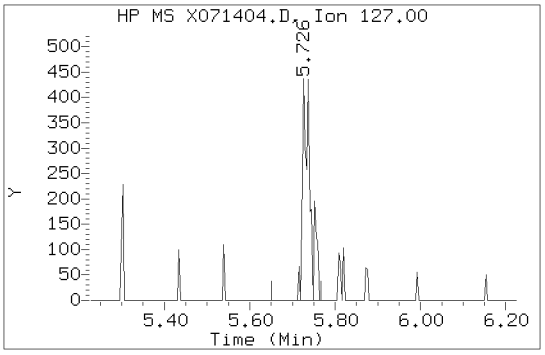
BEFORE

MASS
127
AREA
568
HEIGHT
437
20-Jul-2023
15:04
linh
pham



AFTER

MASS
127
AREA
568
HEIGHT
437
20-Jul-2023
15:04
linh
pham

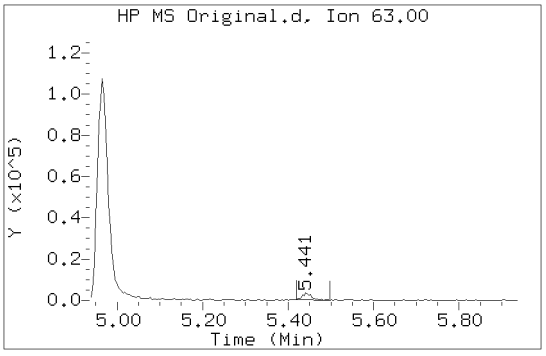


1,2-Dichloropropane (78-87-5)

Reason Code:

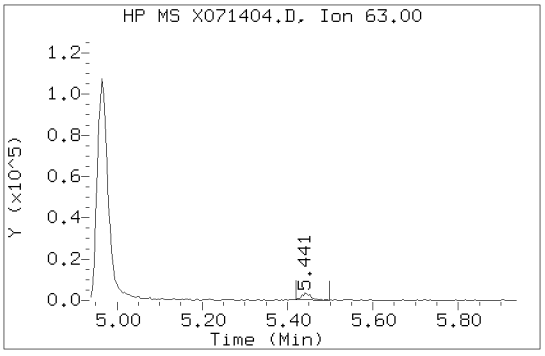
BEFORE

MASS
63
AREA
5153
HEIGHT
3474
20-Jul-2023
15:04
linh
pham



AFTER

MASS
63
AREA
5153
HEIGHT
3474
20-Jul-2023
15:04
linh
pham



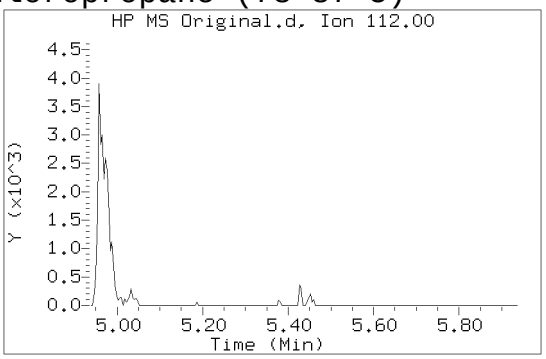
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230714.b\X071404.D
Inj Date : 14-JUL-2023 13:02
InstruID : voa6.i
LabSampID : VSTD001

1,2-Dichloropropane (78-87-5)

Reason Code:

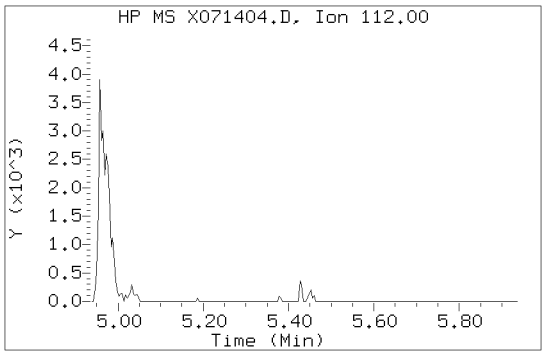
BEFORE

MASS
112
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham



AFTER

MASS
112
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham

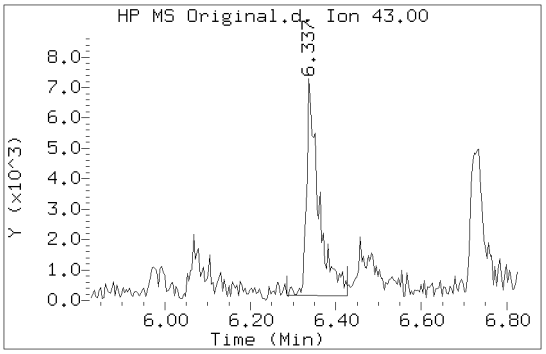


4-Methyl-2-Pentanone (108-10-1)

Reason Code:

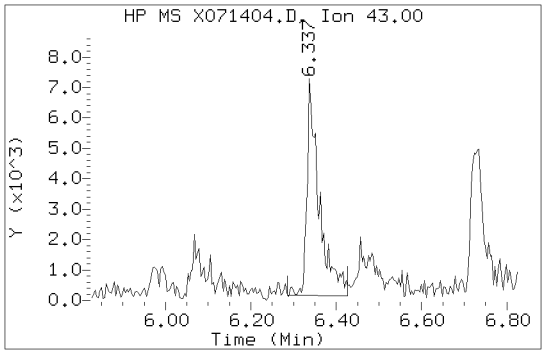
BEFORE

MASS
43
AREA
14106
HEIGHT
7121
20-Jul-2023
15:04
linh
pham



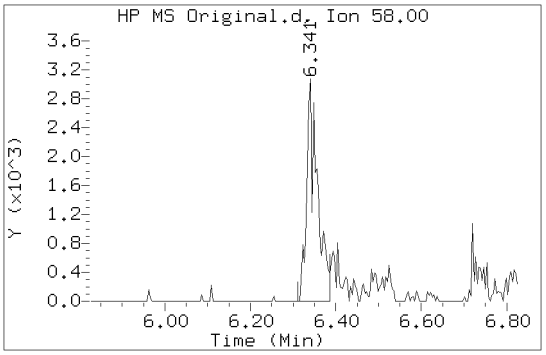
AFTER

MASS
43
AREA
14106
HEIGHT
7121
20-Jul-2023
15:04
linh
pham



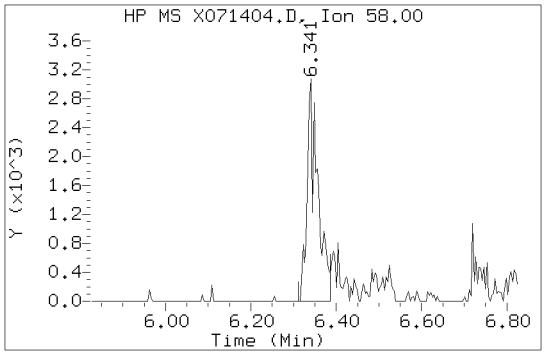
BEFORE

MASS
58
AREA
5370
HEIGHT
3077
20-Jul-2023
15:04
linh
pham



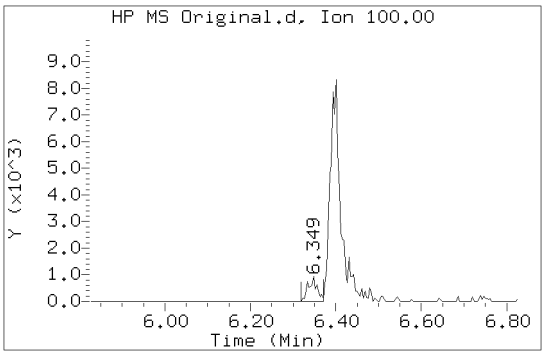
AFTER

MASS
58
AREA
5370
HEIGHT
3077
20-Jul-2023
15:04
linh
pham



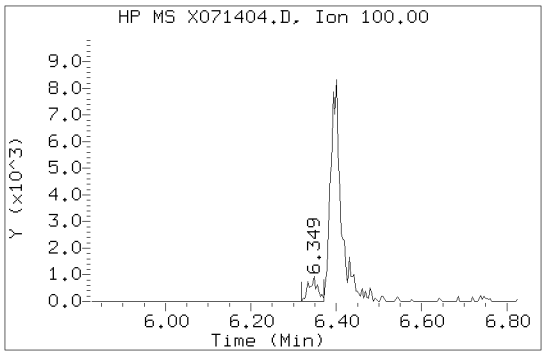
BEFORE

MASS
100
AREA
1328
HEIGHT
944
20-Jul-2023
15:04
linh
pham



AFTER

MASS
100
AREA
1328
HEIGHT
944
20-Jul-2023
15:04
linh
pham



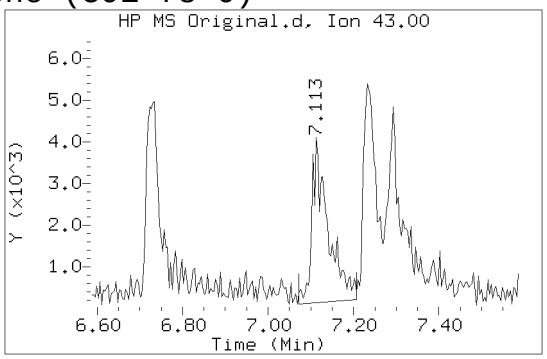
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230714.b\X071404.D
Inj Date : 14-JUL-2023 13:02
InstruID : voa6.i
LabSampID : VSTD001

2-Hexanone (591-78-6)

Reason Code:

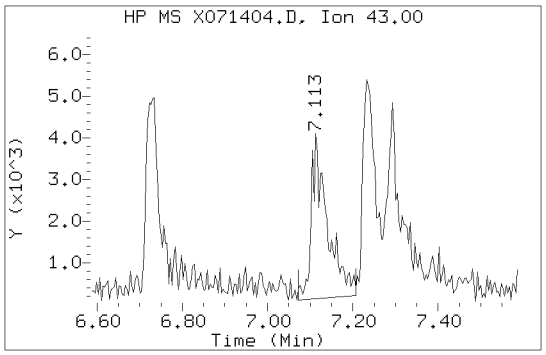
BEFORE

MASS
43
AREA
10319
HEIGHT
3957
20-Jul-2023
15:04
linh
pham



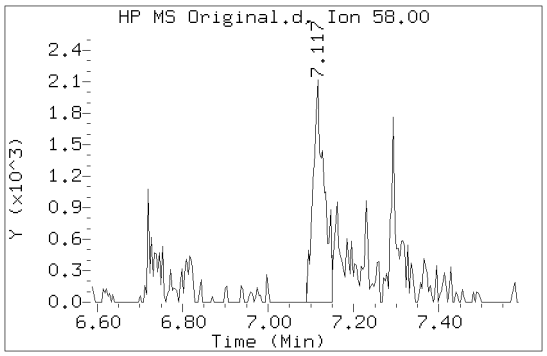
AFTER

MASS
43
AREA
10319
HEIGHT
3957
20-Jul-2023
15:04
linh
pham



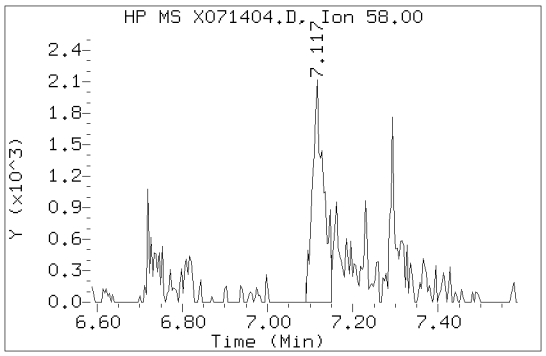
BEFORE

MASS
58
AREA
3772
HEIGHT
2118
20-Jul-2023
15:04
linh
pham



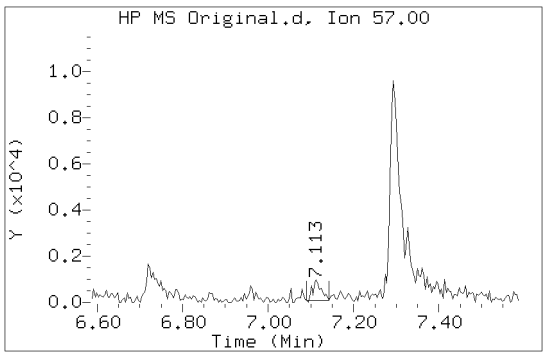
AFTER

MASS
58
AREA
3772
HEIGHT
2118
20-Jul-2023
15:04
linh
pham



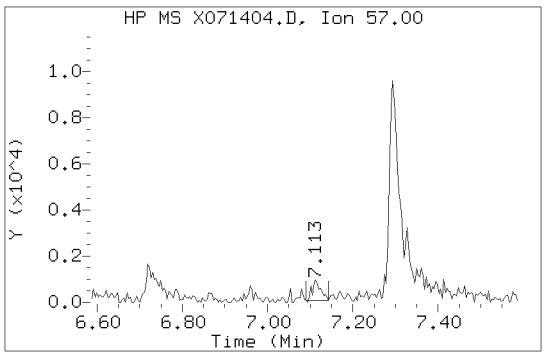
BEFORE

MASS
57
AREA
1177
HEIGHT
882
20-Jul-2023
15:04
linh
pham



AFTER

MASS
57
AREA
1177
HEIGHT
882
20-Jul-2023
15:04
linh
pham

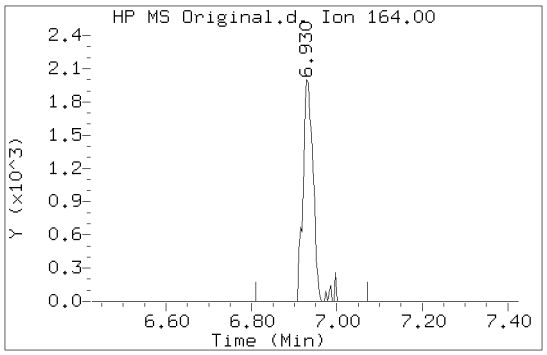


Tetrachloroethene (127-18-4)

Reason Code:

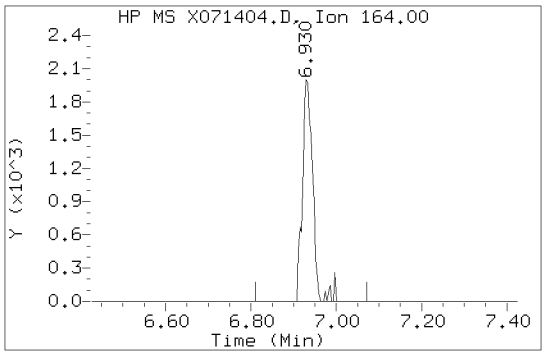
BEFORE

MASS
164
AREA
3431
HEIGHT
2001
20-Jul-2023
15:04
linh
pham



AFTER

MASS
164
AREA
3431
HEIGHT
2001
20-Jul-2023
15:04
linh
pham



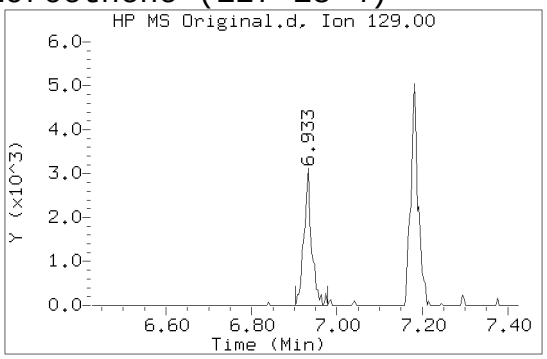
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230714.b\X071404.D
Inj Date : 14-JUL-2023 13:02
InstruID : voa6.i
LabSampID : VSTD001

Tetrachloroethene (127-18-4)

Reason Code:

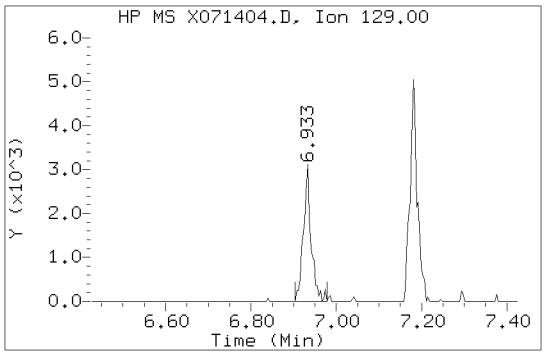
BEFORE

MASS
129
AREA
3977
HEIGHT
3127
20-Jul-2023
15:04
linh
pham



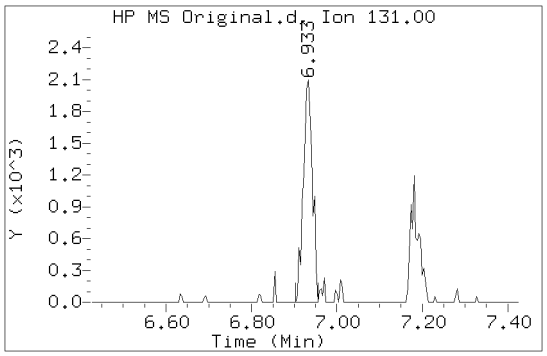
AFTER

MASS
129
AREA
3977
HEIGHT
3127
20-Jul-2023
15:04
linh
pham



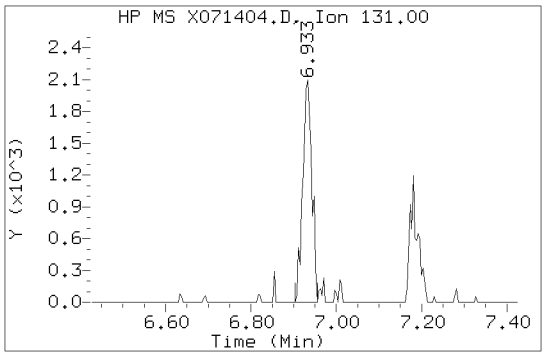
BEFORE

MASS
131
AREA
3184
HEIGHT
2098
20-Jul-2023
15:04
linh
pham



AFTER

MASS
131
AREA
3184
HEIGHT
2098
20-Jul-2023
15:04
linh
pham

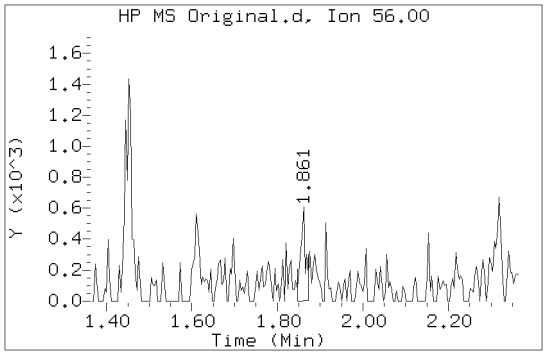


Acrolein (107-02-8)

Reason Code:

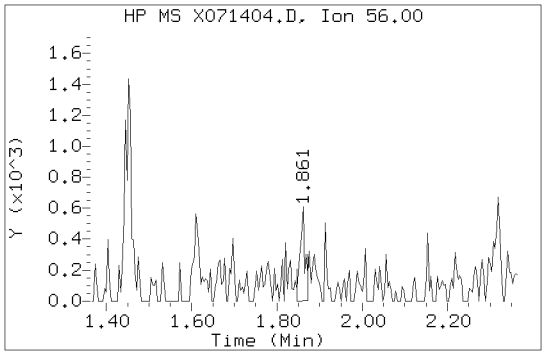
BEFORE

MASS
56
AREA
510
HEIGHT
608
20-Jul-2023
15:04
linh
pham



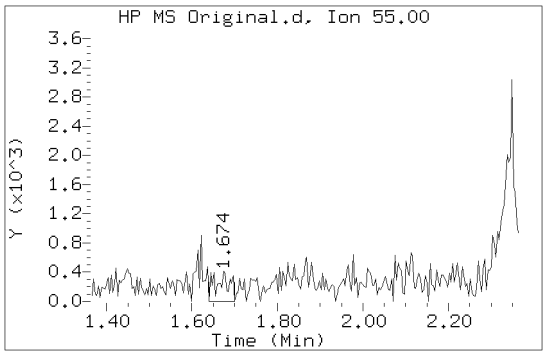
AFTER

MASS
56
AREA
510
HEIGHT
608
20-Jul-2023
15:04
linh
pham



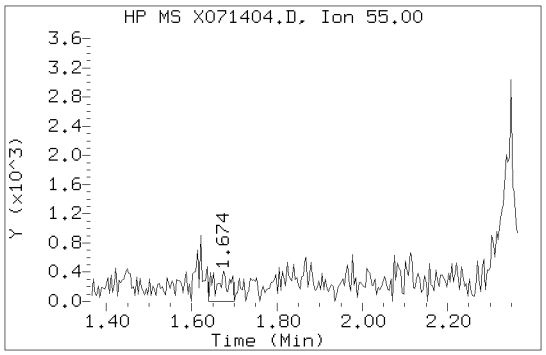
BEFORE

MASS
55
AREA
888
HEIGHT
412
20-Jul-2023
15:04
linh
pham



AFTER

MASS
55
AREA
888
HEIGHT
412
20-Jul-2023
15:04
linh
pham



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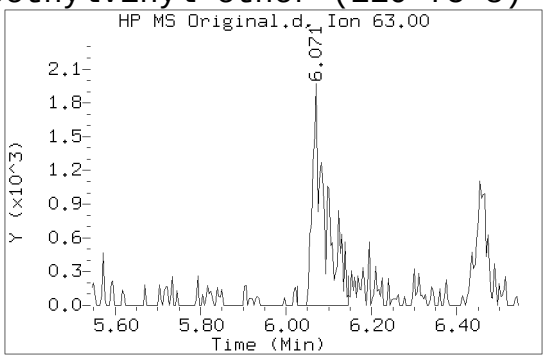
Inj Date : 14-JUL-2023 13:02
InstruID : voa6.i
LabSampID : VSTD001

2-Chloroethylvinyl ether (110-75-8)

Reason Code:

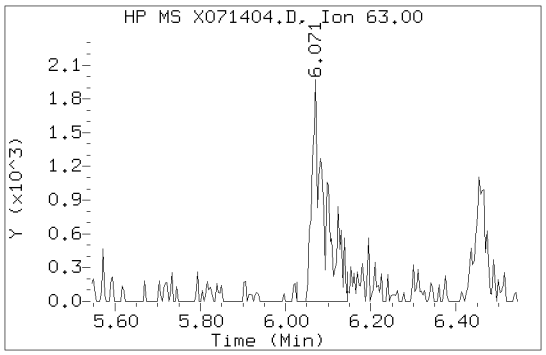
BEFORE

MASS
63
AREA
4176
HEIGHT
1971
20-Jul-2023
15:04
linh
pham



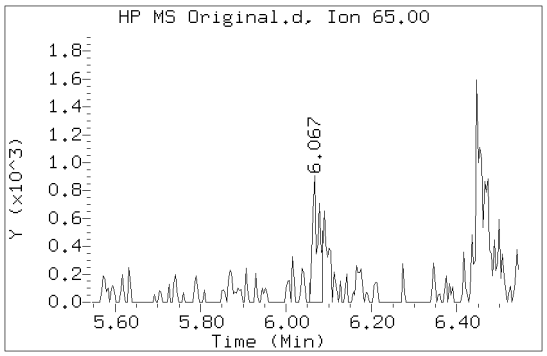
AFTER

MASS
63
AREA
4176
HEIGHT
1971
20-Jul-2023
15:04
linh
pham



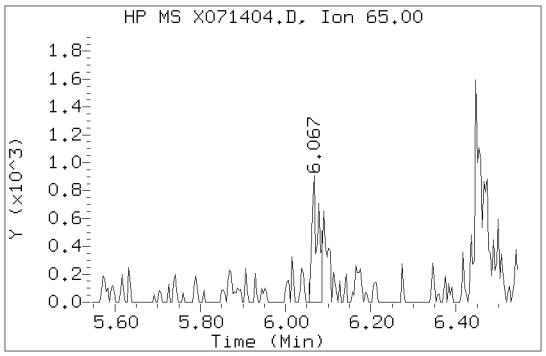
BEFORE

MASS
65
AREA
920
HEIGHT
907
20-Jul-2023
15:04
linh
pham



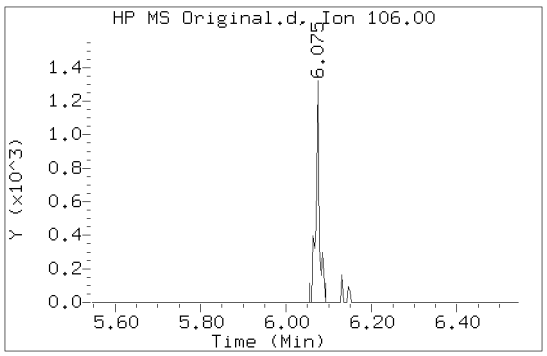
AFTER

MASS
65
AREA
920
HEIGHT
907
20-Jul-2023
15:04
linh
pham



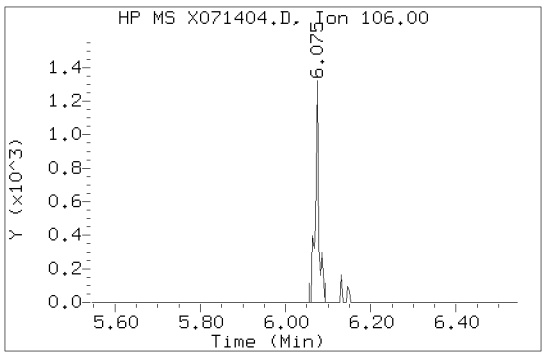
BEFORE

MASS
106
AREA
764
HEIGHT
1322
20-Jul-2023
15:04
linh
pham



AFTER

MASS
106
AREA
764
HEIGHT
1322
20-Jul-2023
15:04
linh
pham

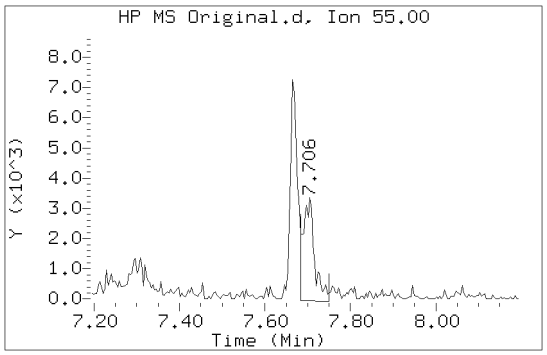


1-Chlorohexane (544-10-5)

Reason Code:

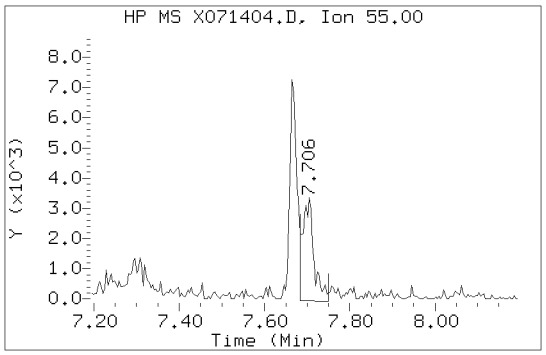
BEFORE

MASS
55
AREA
6663
HEIGHT
3425
20-Jul-2023
15:04
linh
pham



AFTER

MASS
55
AREA
6663
HEIGHT
3425
20-Jul-2023
15:04
linh
pham



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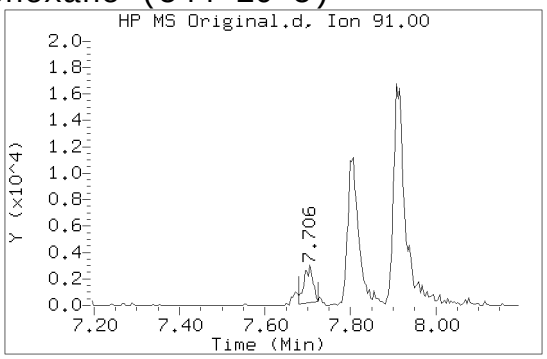
Inj Date : 14-JUL-2023 13:02
InstruID : voa6.i
LabSampID : VSTD001

1-Chlorohexane (544-10-5)

Reason Code:

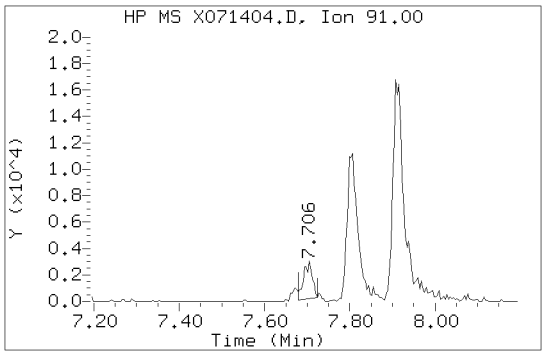
BEFORE

MASS
91
AREA
4133
HEIGHT
2845
20-Jul-2023
15:04
linh
pham



AFTER

MASS
91
AREA
4133
HEIGHT
2845
20-Jul-2023
15:04
linh
pham

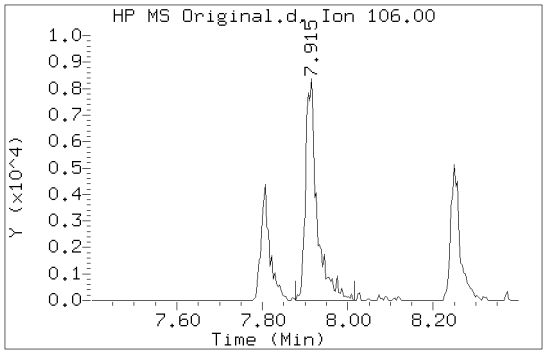


m,p-Xylenes ()

Reason Code:

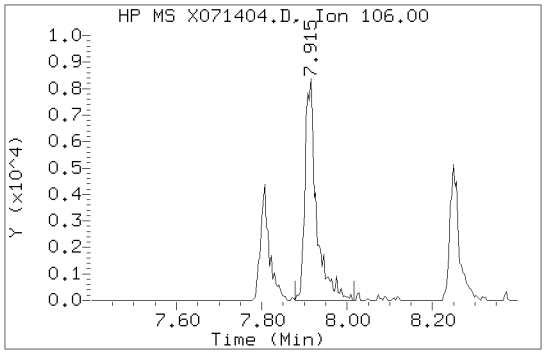
BEFORE

MASS
106
AREA
15703
HEIGHT
8376
20-Jul-2023
15:04
linh
pham



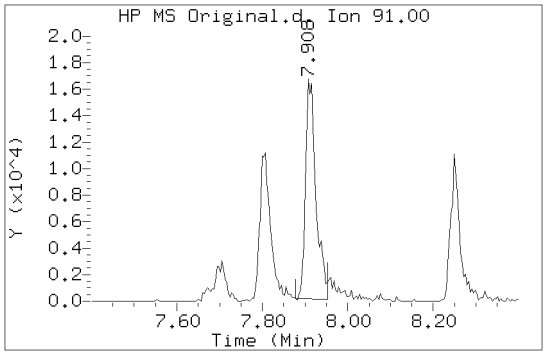
AFTER

MASS
106
AREA
15703
HEIGHT
8376
20-Jul-2023
15:04
linh
pham



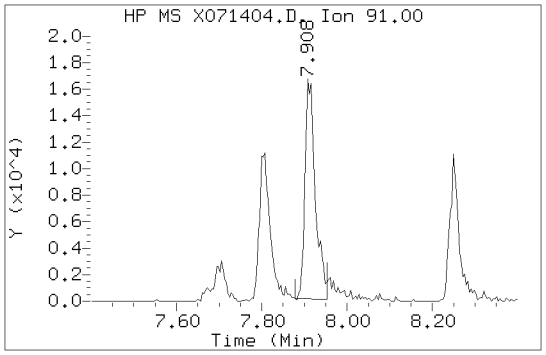
BEFORE

MASS
91
AREA
28386
HEIGHT
16587
20-Jul-2023
15:04
linh
pham



AFTER

MASS
91
AREA
28386
HEIGHT
16587
20-Jul-2023
15:04
linh
pham

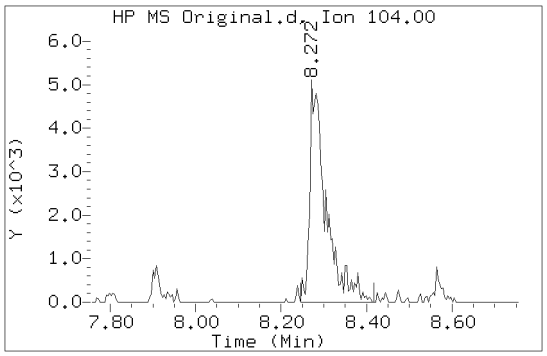


Styrene (100-42-5)

Reason Code:

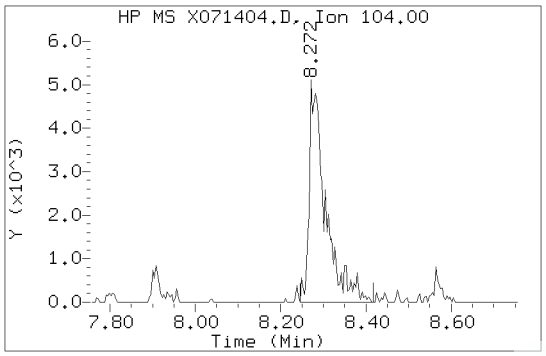
BEFORE

MASS
104
AREA
13315
HEIGHT
5109
20-Jul-2023
15:04
linh
pham



AFTER

MASS
104
AREA
13315
HEIGHT
5109
20-Jul-2023
15:04
linh
pham



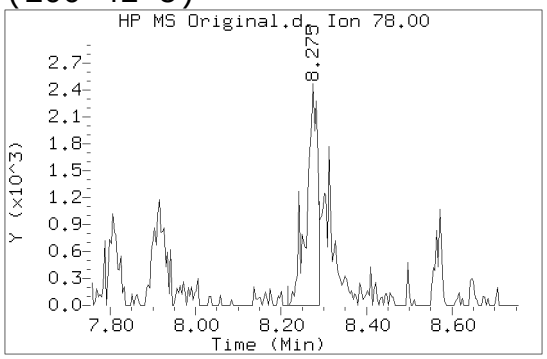
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230714.b\X071404.D
Inj Date : 14-JUL-2023 13:02
InstruID : voa6.i
LabSampID : VSTD001

Styrene (100-42-5)

Reason Code:

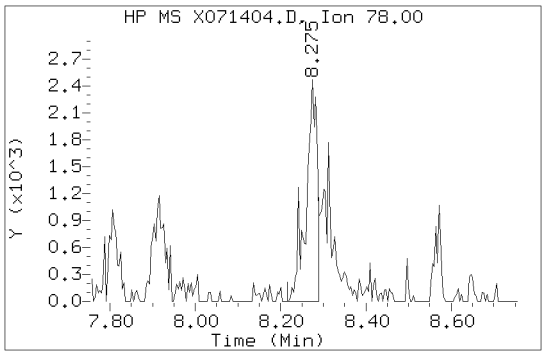
BEFORE

MASS
78
AREA
4442
HEIGHT
2469
20-Jul-2023
15:04
linh
pham



AFTER

MASS
78
AREA
4442
HEIGHT
2469
20-Jul-2023
15:04
linh
pham

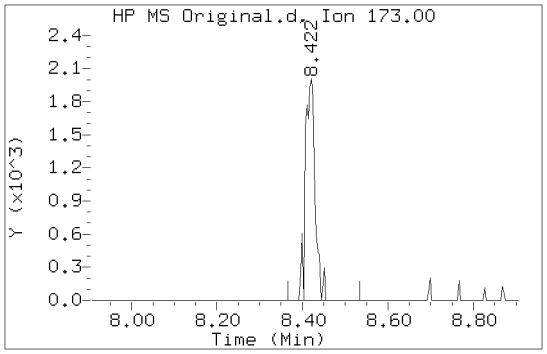


Bromoform (75-25-2)

Reason Code:

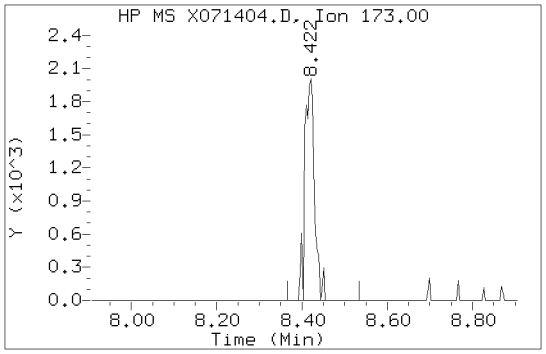
BEFORE

MASS
173
AREA
3238
HEIGHT
2008
20-Jul-2023
15:04
linh
pham



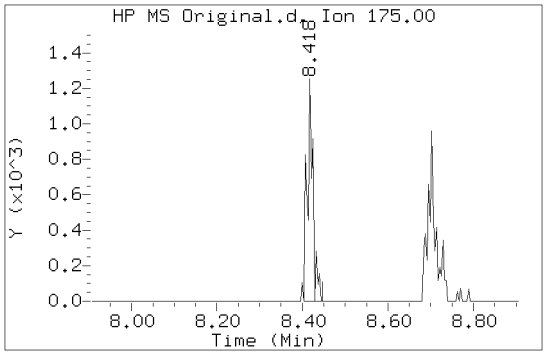
AFTER

MASS
173
AREA
3238
HEIGHT
2008
20-Jul-2023
15:04
linh
pham



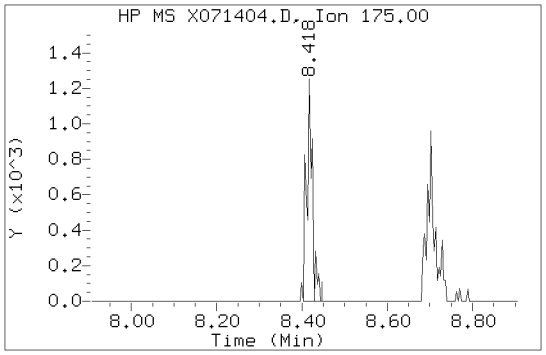
BEFORE

MASS
175
AREA
1174
HEIGHT
1253
20-Jul-2023
15:04
linh
pham



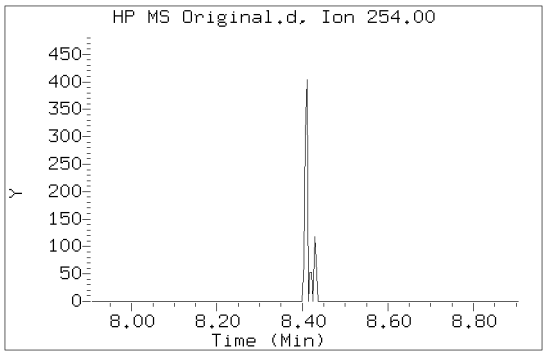
AFTER

MASS
175
AREA
1174
HEIGHT
1253
20-Jul-2023
15:04
linh
pham



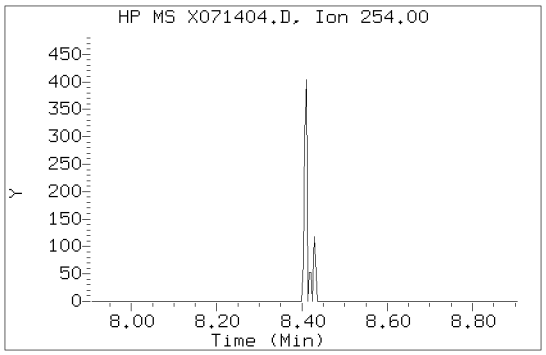
BEFORE

MASS
254
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham



AFTER

MASS
254
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham



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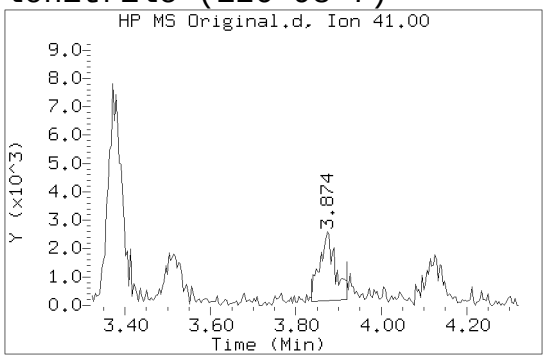
Inj Date : 14-JUL-2023 13:02
InstruID : voa6.i
LabSampID : VSTD001

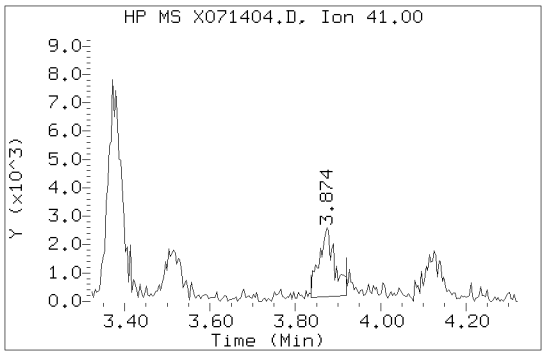
Methacrylonitrile (126-98-7)

Reason Code:

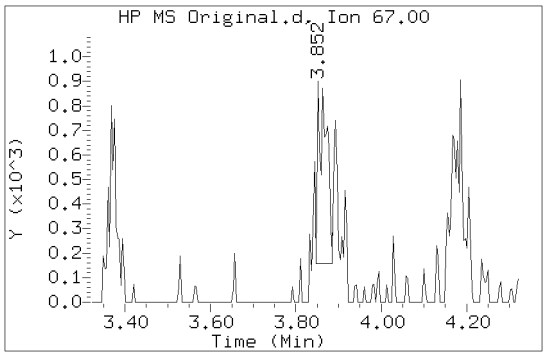
BEFORE
MASS
41
AREA
6195
HEIGHT
2436
20-Jul-2023
15:04
linh
pham



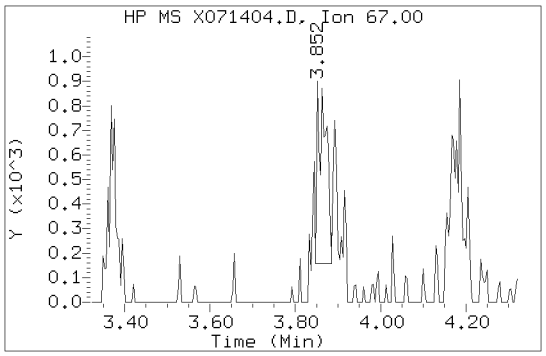
AFTER
MASS
41
AREA
6195
HEIGHT
2436
20-Jul-2023
15:04
linh
pham



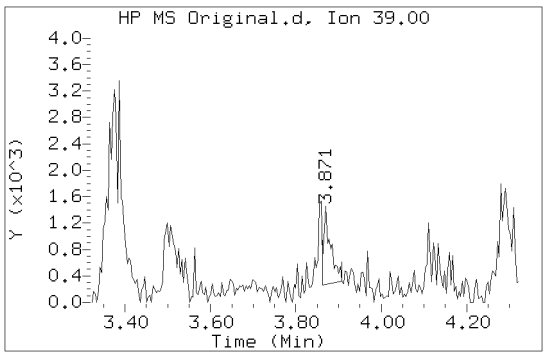
BEFORE
MASS
67
AREA
1024
HEIGHT
744
20-Jul-2023
15:04
linh
pham



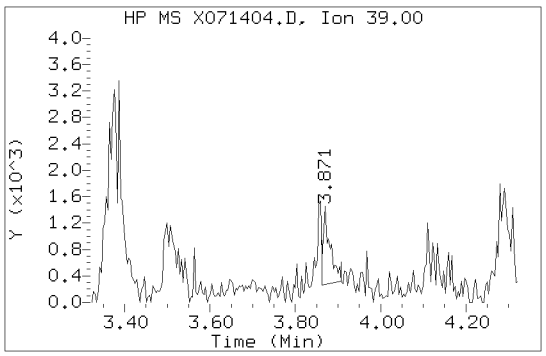
AFTER
MASS
67
AREA
1024
HEIGHT
744
20-Jul-2023
15:04
linh
pham



BEFORE
MASS
39
AREA
1324
HEIGHT
1187
20-Jul-2023
15:04
linh
pham



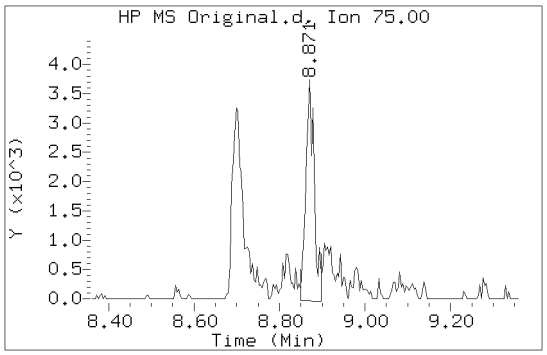
AFTER
MASS
39
AREA
1324
HEIGHT
1187
20-Jul-2023
15:04
linh
pham



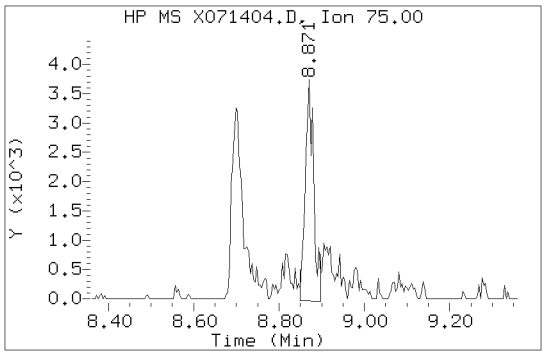
1,2,3-Trichloropropane (96-18-4)

Reason Code:

BEFORE
MASS
75
AREA
5203
HEIGHT
3776
20-Jul-2023
15:04
linh
pham



AFTER
MASS
75
AREA
5203
HEIGHT
3776
20-Jul-2023
15:04
linh
pham



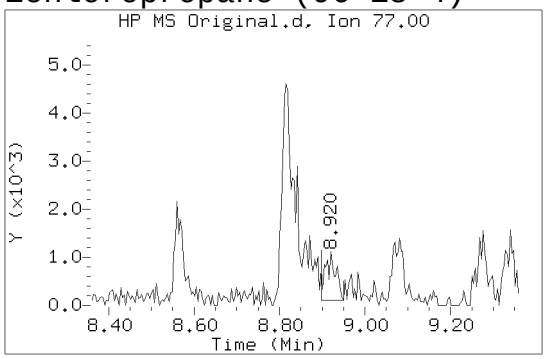
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230714.b\X071404.D
Inj Date : 14-JUL-2023 13:02
InstruID : voa6.i
LabSampID : VSTD001

1,2,3-Trichloropropane (96-18-4)

Reason Code:

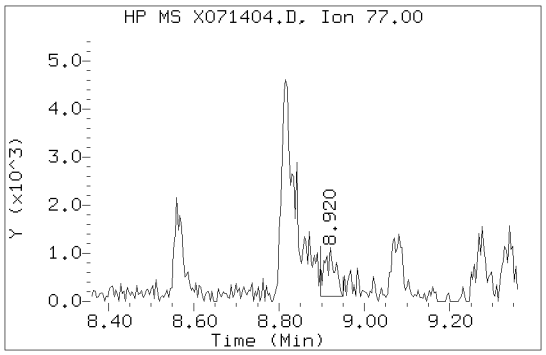
BEFORE

MASS
77
AREA
1749
HEIGHT
1014
20-Jul-2023
15:04
linh
pham



AFTER

MASS
77
AREA
1749
HEIGHT
1014
20-Jul-2023
15:04
linh
pham

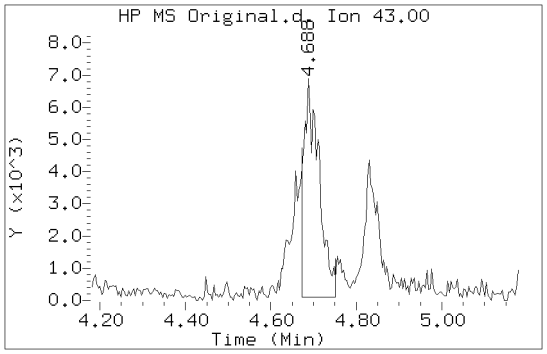


Isobutyl Alcohol (78-83-1)

Reason Code:

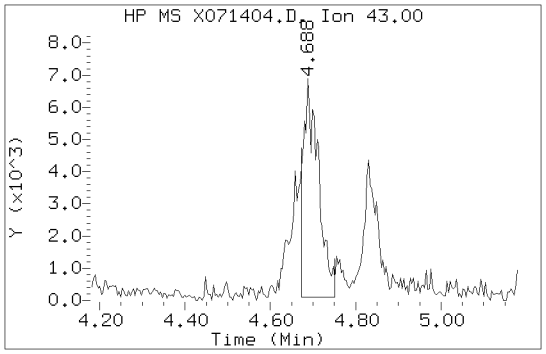
BEFORE

MASS
43
AREA
16938
HEIGHT
6786
20-Jul-2023
15:04
linh
pham



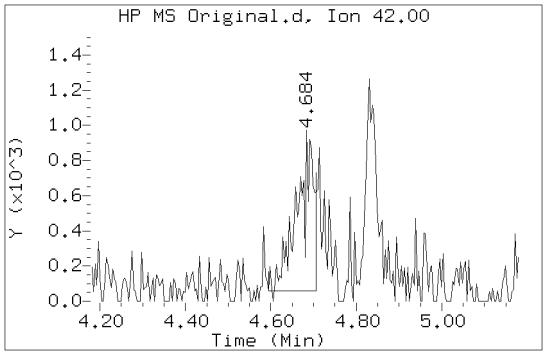
AFTER

MASS
43
AREA
16938
HEIGHT
6786
20-Jul-2023
15:04
linh
pham



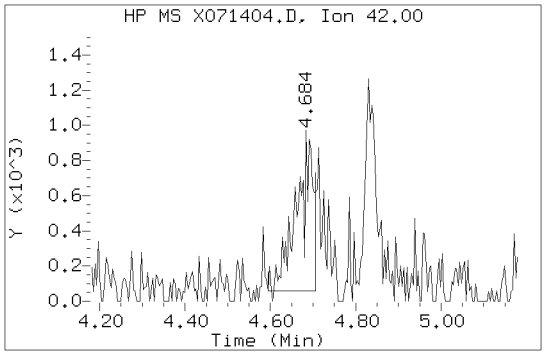
BEFORE

MASS
42
AREA
2469
HEIGHT
914
20-Jul-2023
15:04
linh
pham



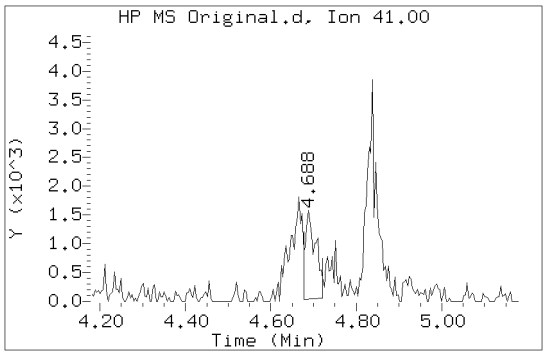
AFTER

MASS
42
AREA
2469
HEIGHT
914
20-Jul-2023
15:04
linh
pham



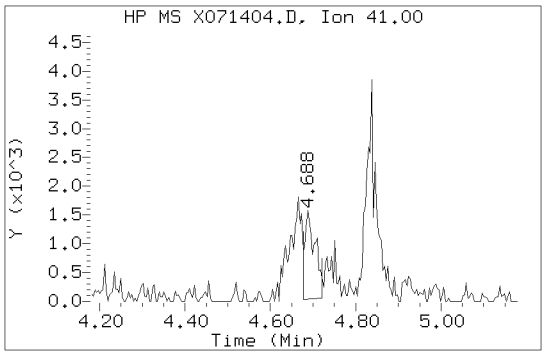
BEFORE

MASS
41
AREA
2733
HEIGHT
1544
20-Jul-2023
15:04
linh
pham



AFTER

MASS
41
AREA
2733
HEIGHT
1544
20-Jul-2023
15:04
linh
pham



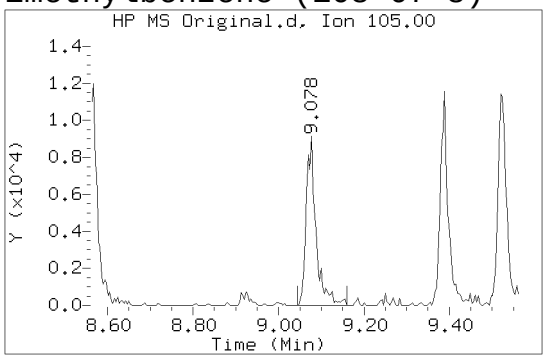
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230714.b\X071404.D
Inj Date : 14-JUL-2023 13:02
InstruID : voa6.i
LabSampID : VSTD001

1,3,5-Trimethylbenzene (108-67-8)

Reason Code:

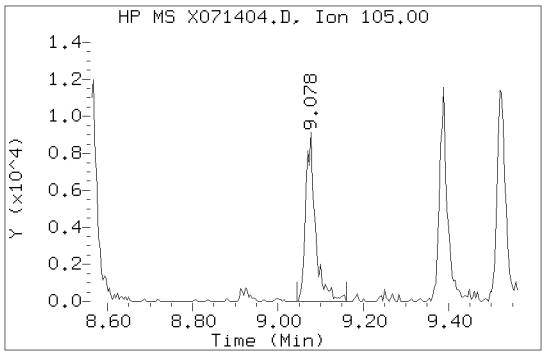
BEFORE

MASS
105
AREA
14649
HEIGHT
9159
20-Jul-2023
15:04
linh
pham



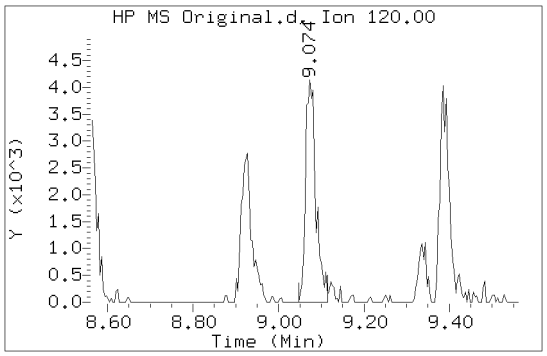
AFTER

MASS
105
AREA
14649
HEIGHT
9159
20-Jul-2023
15:04
linh
pham



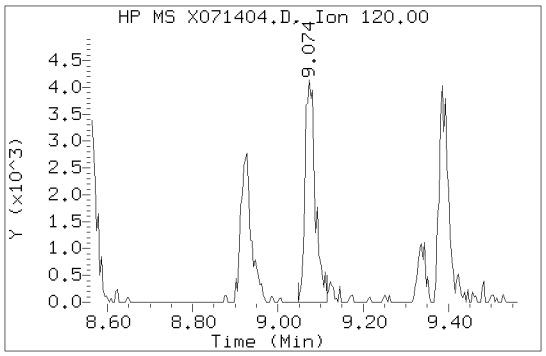
BEFORE

MASS
120
AREA
6985
HEIGHT
4141
20-Jul-2023
15:04
linh
pham



AFTER

MASS
120
AREA
6985
HEIGHT
4141
20-Jul-2023
15:04
linh
pham

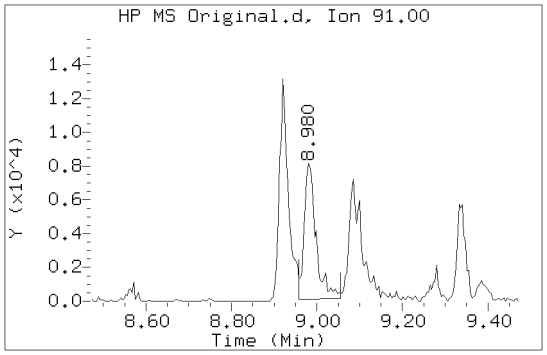


2-Chlorotoluene (95-49-8)

Reason Code:

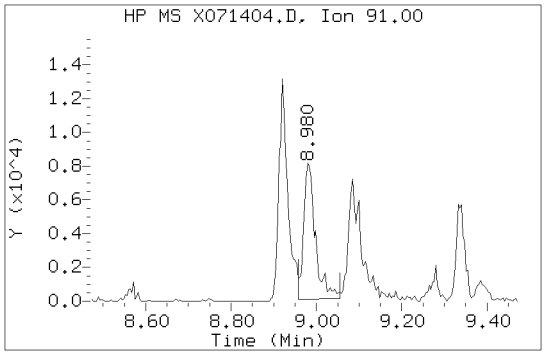
BEFORE

MASS
91
AREA
15937
HEIGHT
8082
20-Jul-2023
15:04
linh
pham



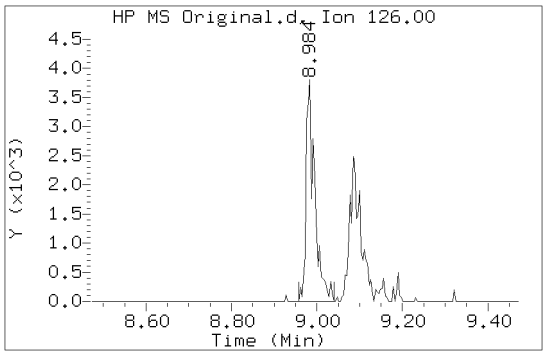
AFTER

MASS
91
AREA
15937
HEIGHT
8082
20-Jul-2023
15:04
linh
pham



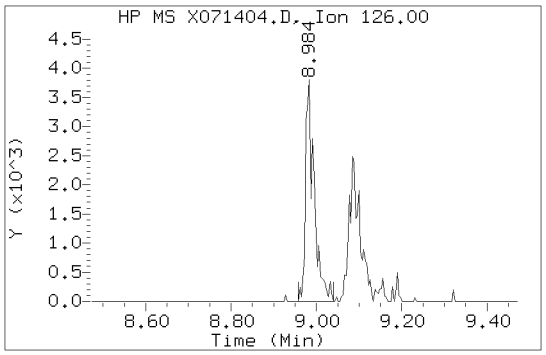
BEFORE

MASS
126
AREA
5351
HEIGHT
3805
20-Jul-2023
15:04
linh
pham



AFTER

MASS
126
AREA
5351
HEIGHT
3805
20-Jul-2023
15:04
linh
pham

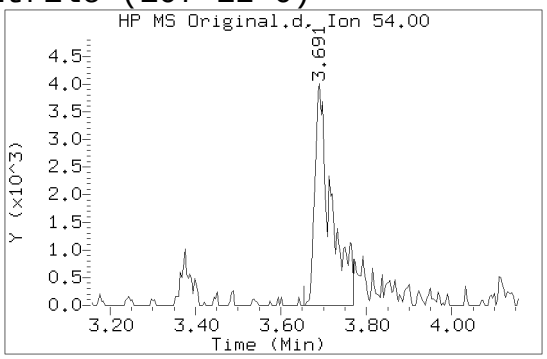


Data File : \\NAHSTWS005\Target\chem\voa6.i\X230714.b\X071404.D
Inj Date : 14-JUL-2023 13:02
InstruID : voa6.i
LabSampID : VSTD001

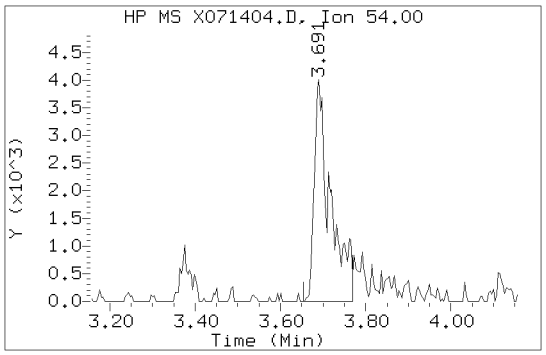
Propionitrile (107-12-0)

Reason Code:

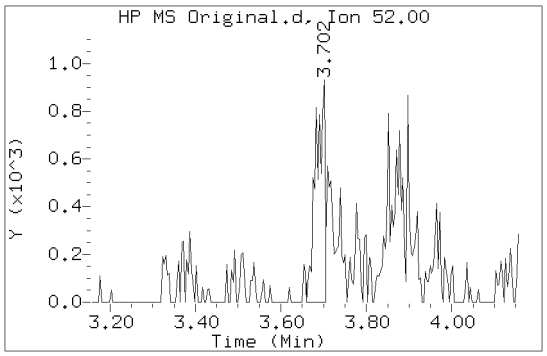
BEFORE
MASS
54
AREA
10495
HEIGHT
4008
20-Jul-2023
15:04
linh
pham



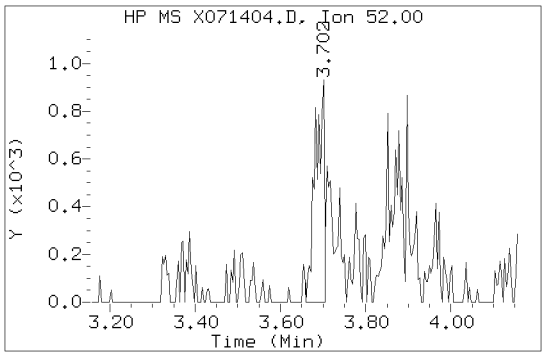
AFTER
MASS
54
AREA
10495
HEIGHT
4008
20-Jul-2023
15:04
linh
pham



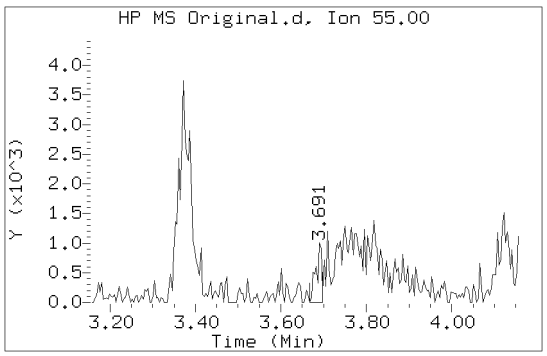
BEFORE
MASS
52
AREA
1356
HEIGHT
931
20-Jul-2023
15:04
linh
pham



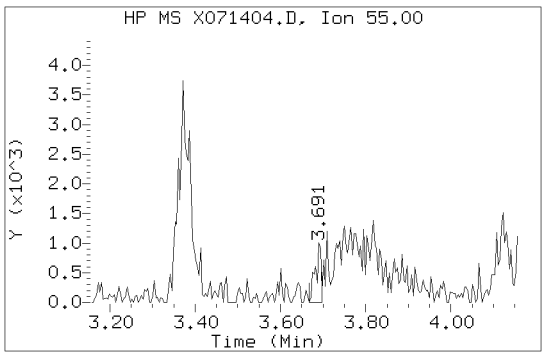
AFTER
MASS
52
AREA
1356
HEIGHT
931
20-Jul-2023
15:04
linh
pham



BEFORE
MASS
55
AREA
924
HEIGHT
1009
20-Jul-2023
15:04
linh
pham



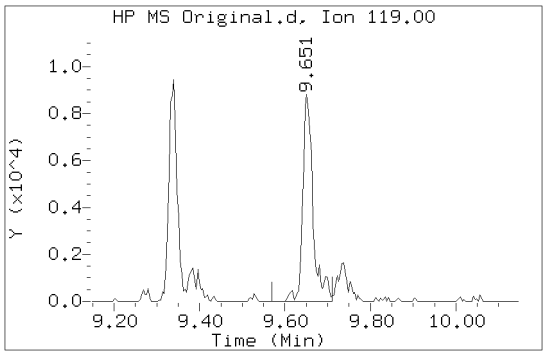
AFTER
MASS
55
AREA
924
HEIGHT
1009
20-Jul-2023
15:04
linh
pham



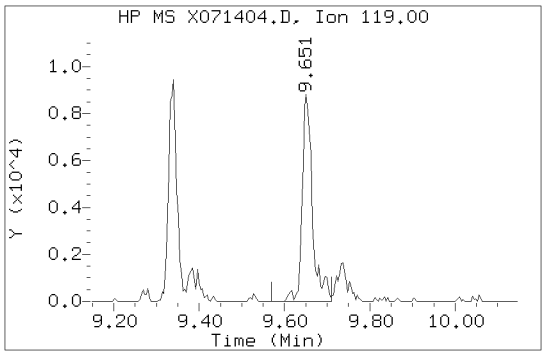
p-Isopropyltoluene (99-87-6)

Reason Code:

BEFORE
MASS
119
AREA
15092
HEIGHT
8813
20-Jul-2023
15:04
linh
pham



AFTER
MASS
119
AREA
15092
HEIGHT
8813
20-Jul-2023
15:04
linh
pham



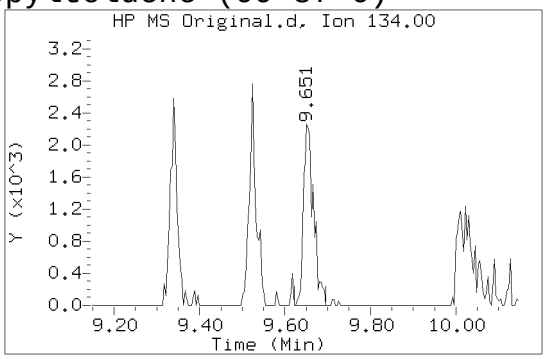
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230714.b\X071404.D
Inj Date : 14-JUL-2023 13:02
InstruID : voa6.i
LabSampID : VSTD001

p-Isopropyltoluene (99-87-6)

Reason Code:

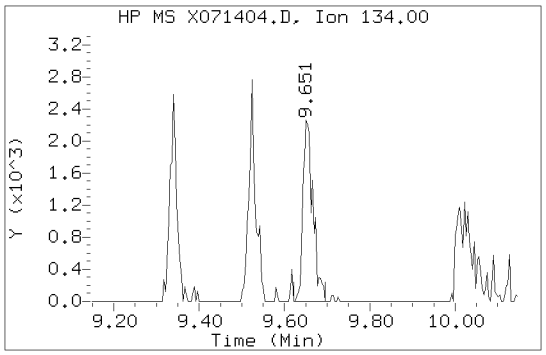
BEFORE

MASS
134
AREA
3764
HEIGHT
2261
20-Jul-2023
15:04
linh
pham



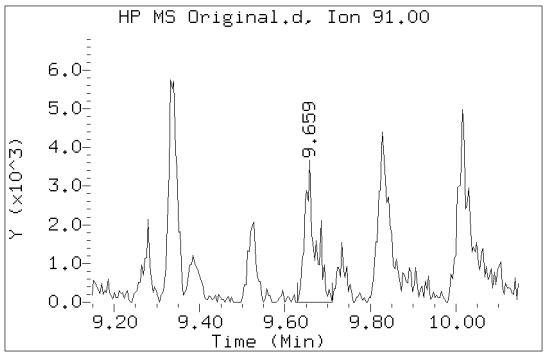
AFTER

MASS
134
AREA
3764
HEIGHT
2261
20-Jul-2023
15:04
linh
pham



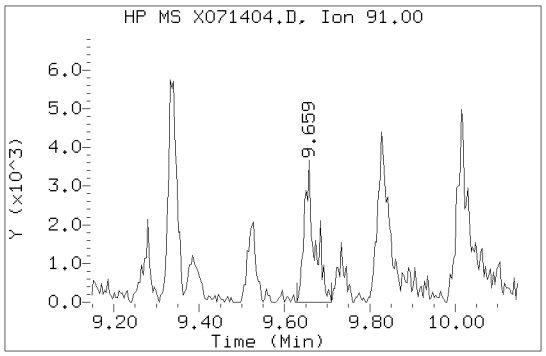
BEFORE

MASS
91
AREA
6124
HEIGHT
3669
20-Jul-2023
15:04
linh
pham



AFTER

MASS
91
AREA
6124
HEIGHT
3669
20-Jul-2023
15:04
linh
pham

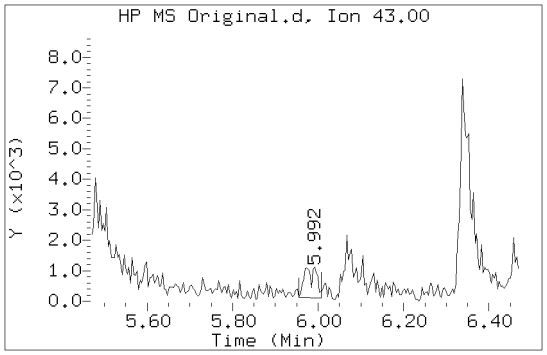


2-Nitropropane (79-46-9)

Reason Code:

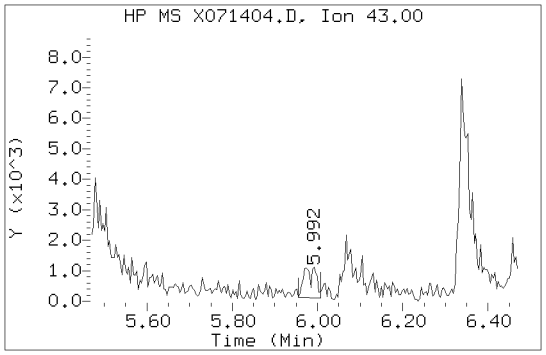
BEFORE

MASS
43
AREA
2054
HEIGHT
1008
20-Jul-2023
15:04
linh
pham



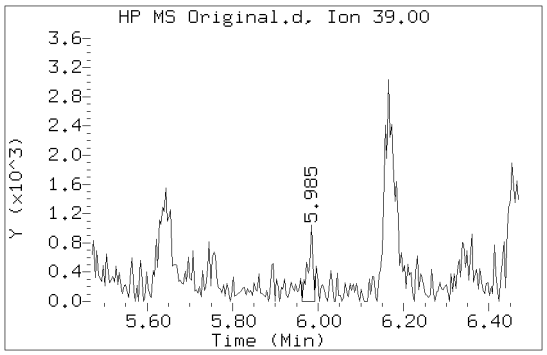
AFTER

MASS
43
AREA
2054
HEIGHT
1008
20-Jul-2023
15:04
linh
pham



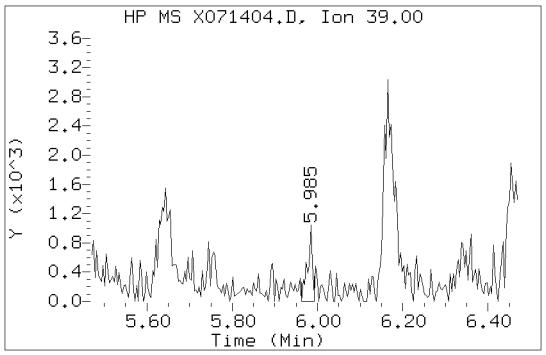
BEFORE

MASS
39
AREA
807
HEIGHT
1040
20-Jul-2023
15:04
linh
pham



AFTER

MASS
39
AREA
807
HEIGHT
1040
20-Jul-2023
15:04
linh
pham



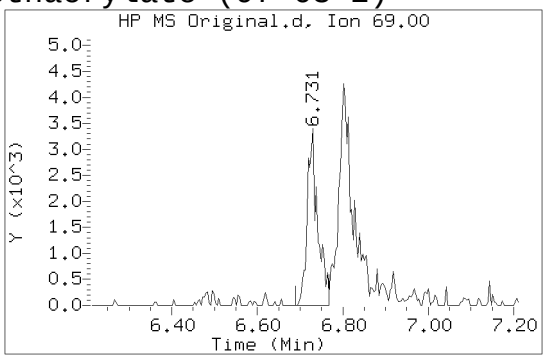
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230714.b\X071404.D
Inj Date : 14-JUL-2023 13:02
InstruID : voa6.i
LabSampID : VSTD001

Ethyl Methacrylate (97-63-2)

Reason Code:

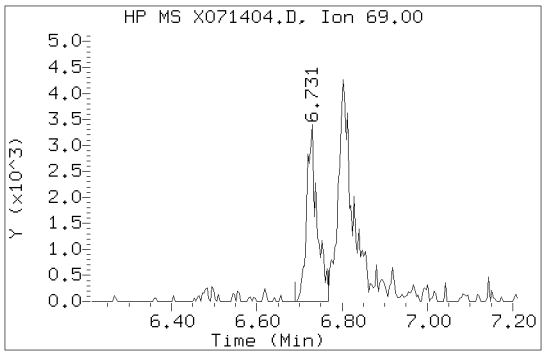
BEFORE

MASS
69
AREA
5749
HEIGHT
3399
20-Jul-2023
15:04
linh
pham



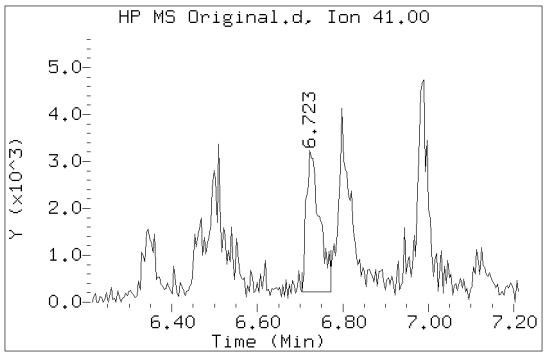
AFTER

MASS
69
AREA
5749
HEIGHT
3399
20-Jul-2023
15:04
linh
pham



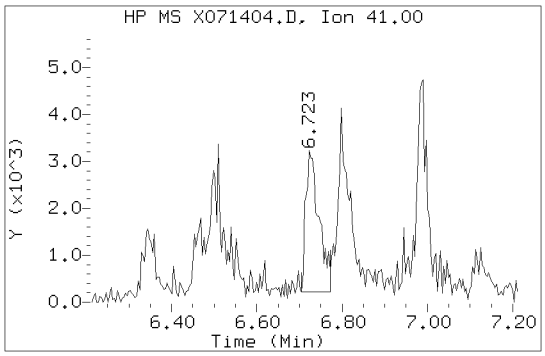
BEFORE

MASS
41
AREA
6505
HEIGHT
3006
20-Jul-2023
15:04
linh
pham



AFTER

MASS
41
AREA
6505
HEIGHT
3006
20-Jul-2023
15:04
linh
pham

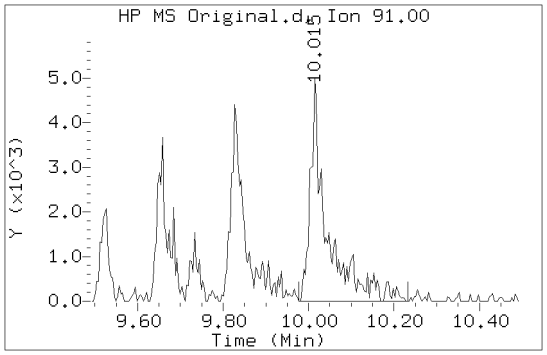


n-Butylbenzene (104-51-8)

Reason Code:

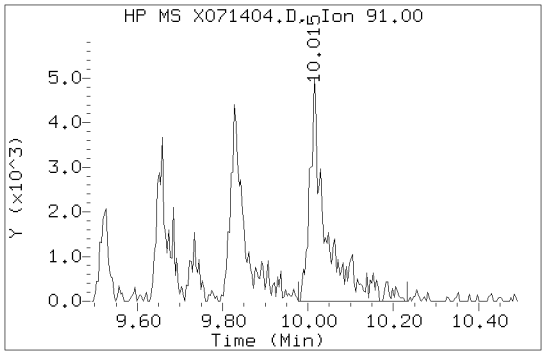
BEFORE

MASS
91
AREA
13321
HEIGHT
4981
20-Jul-2023
15:04
linh
pham



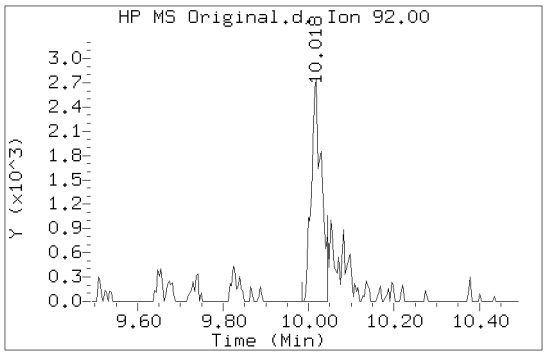
AFTER

MASS
91
AREA
13321
HEIGHT
4981
20-Jul-2023
15:04
linh
pham



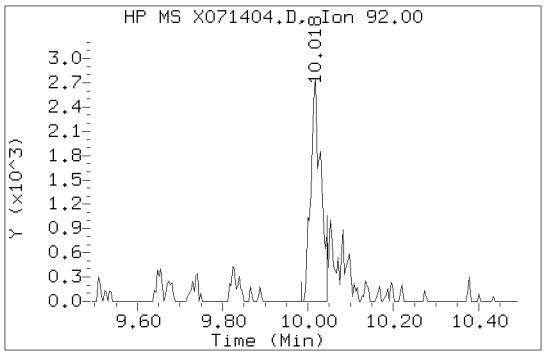
BEFORE

MASS
92
AREA
4505
HEIGHT
2738
20-Jul-2023
15:04
linh
pham



AFTER

MASS
92
AREA
4505
HEIGHT
2738
20-Jul-2023
15:04
linh
pham



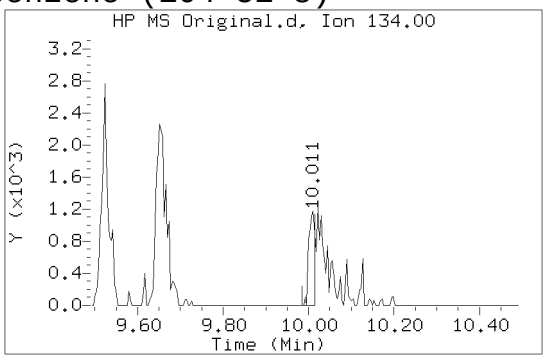
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230714.b\X071404.D
Inj Date : 14-JUL-2023 13:02
InstruID : voa6.i
LabSampID : VSTD001

n-Butylbenzene (104-51-8)

Reason Code:

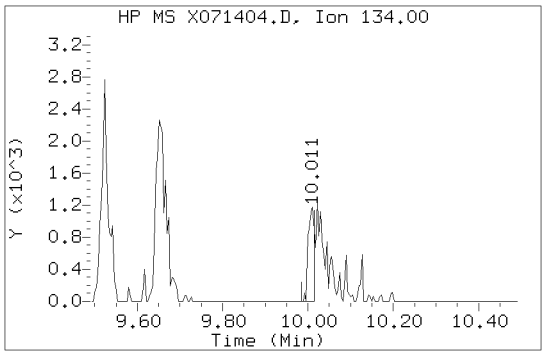
BEFORE

MASS
134
AREA
1125
HEIGHT
1172
20-Jul-2023
15:04
linh
pham



AFTER

MASS
134
AREA
1125
HEIGHT
1172
20-Jul-2023
15:04
linh
pham

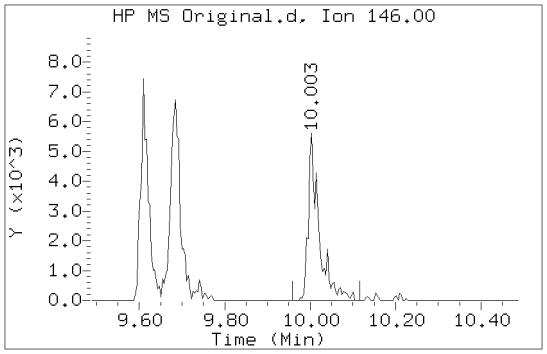


1,2-Dichlorobenzene (95-50-1)

Reason Code:

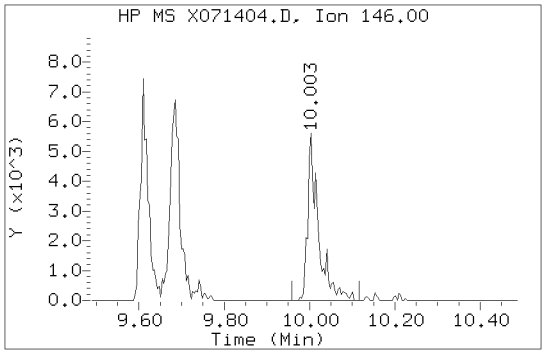
BEFORE

MASS
146
AREA
9791
HEIGHT
5614
20-Jul-2023
15:04
linh
pham



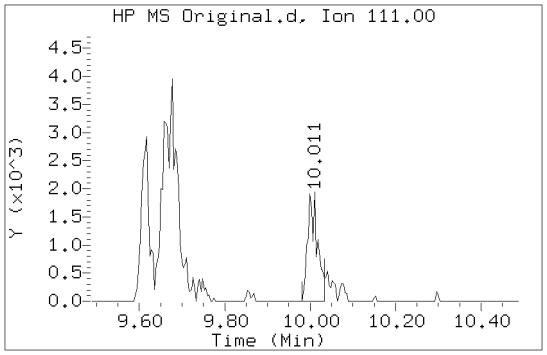
AFTER

MASS
146
AREA
9791
HEIGHT
5614
20-Jul-2023
15:04
linh
pham



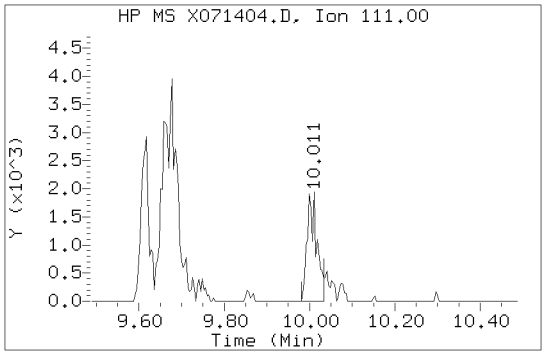
BEFORE

MASS
111
AREA
3070
HEIGHT
1939
20-Jul-2023
15:04
linh
pham



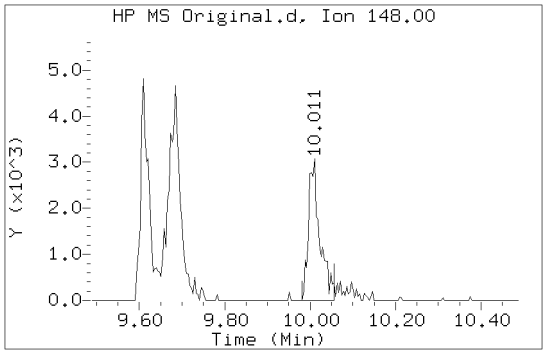
AFTER

MASS
111
AREA
3070
HEIGHT
1939
20-Jul-2023
15:04
linh
pham



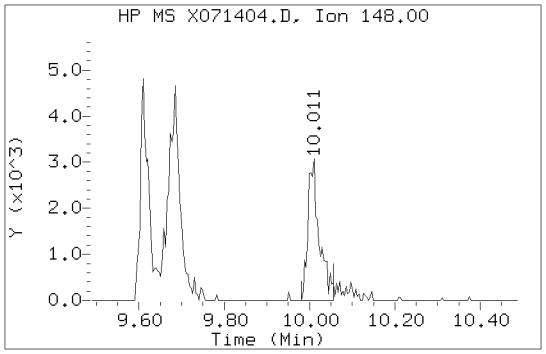
BEFORE

MASS
148
AREA
5707
HEIGHT
3072
20-Jul-2023
15:04
linh
pham



AFTER

MASS
148
AREA
5707
HEIGHT
3072
20-Jul-2023
15:04
linh
pham

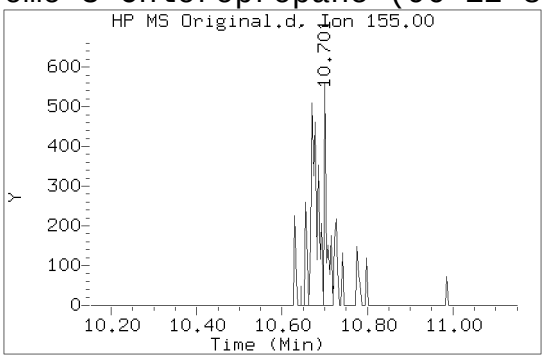


Data File : \\NAHSTWS005\Target\chem\voa6.i\X230714.b\X071404.D
Inj Date : 14-JUL-2023 13:02
InstruID : voa6.i
LabSampID : VSTD001

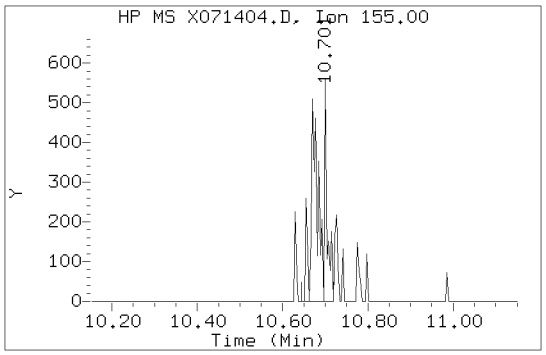
1,2-Dibromo-3-Chloropropane (96-12-8)

Reason Code:

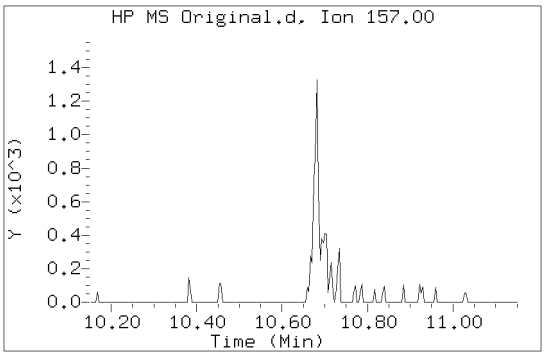
BEFORE
MASS
155
AREA
831
HEIGHT
558
20-Jul-2023
15:04
linh
pham



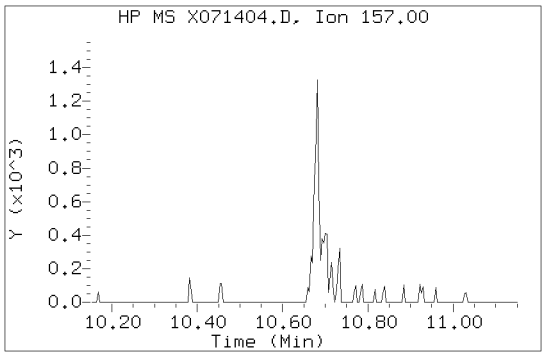
AFTER
MASS
155
AREA
831
HEIGHT
558
20-Jul-2023
15:04
linh
pham



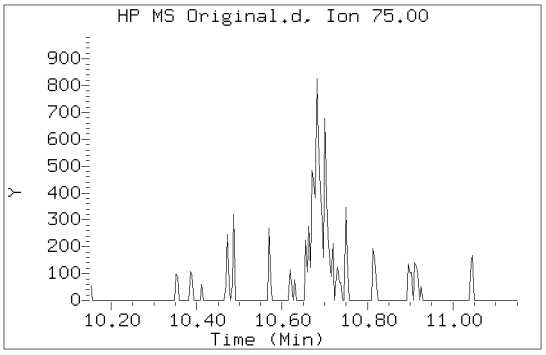
BEFORE
MASS
157
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham



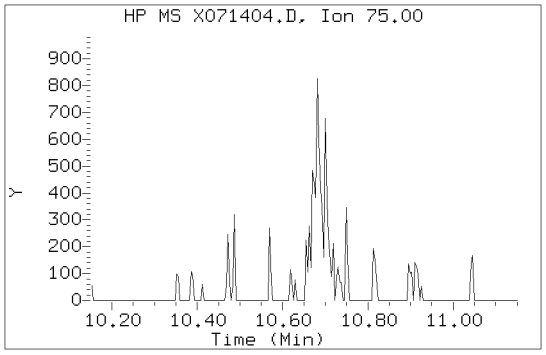
AFTER
MASS
157
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham



BEFORE
MASS
75
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham



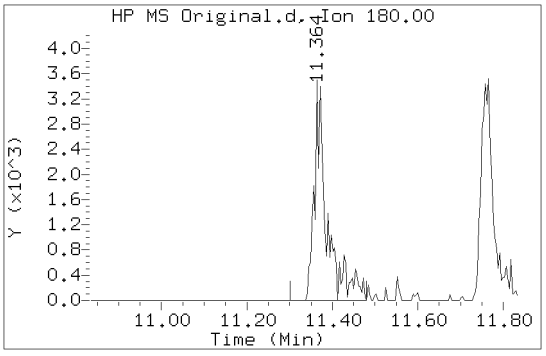
AFTER
MASS
75
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham



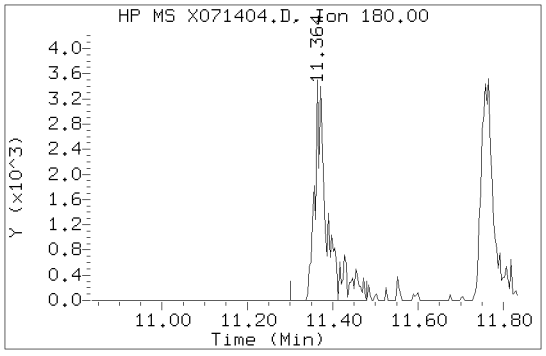
1,2,4-Trichlorobenzene (120-82-1)

Reason Code:

BEFORE
MASS
180
AREA
7113
HEIGHT
3499
20-Jul-2023
15:04
linh
pham



AFTER
MASS
180
AREA
7113
HEIGHT
3499
20-Jul-2023
15:04
linh
pham



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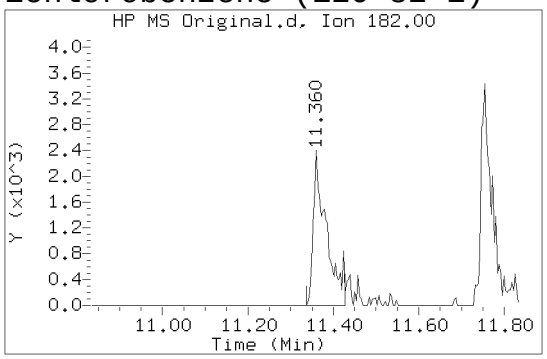
Inj Date : 14-JUL-2023 13:02
InstruID : voa6.i
LabSampID : VSTD001

1,2,4-Trichlorobenzene (120-82-1)

Reason Code:

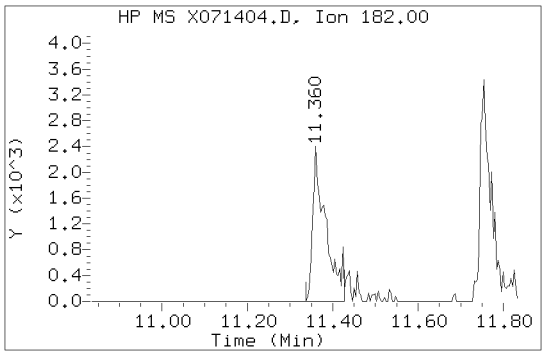
BEFORE

MASS
182
AREA
5066
HEIGHT
2401
20-Jul-2023
15:04
linh
pham



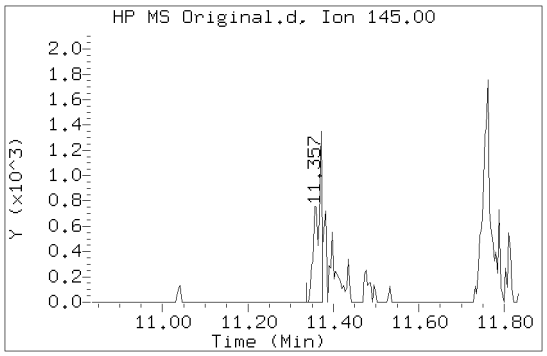
AFTER

MASS
182
AREA
5066
HEIGHT
2401
20-Jul-2023
15:04
linh
pham



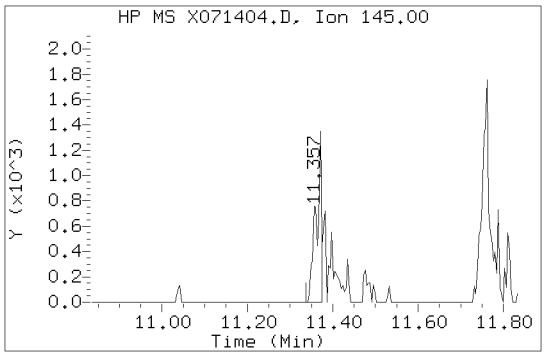
BEFORE

MASS
145
AREA
1146
HEIGHT
757
20-Jul-2023
15:04
linh
pham



AFTER

MASS
145
AREA
1146
HEIGHT
757
20-Jul-2023
15:04
linh
pham

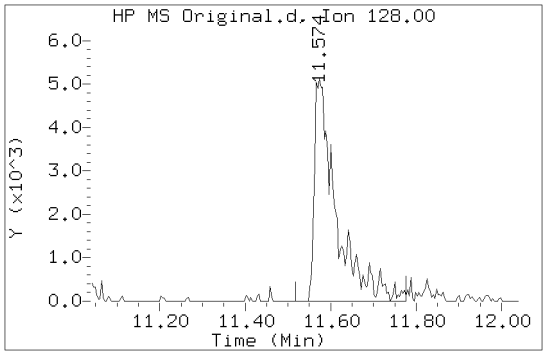


Naphthalene (91-20-3)

Reason Code:

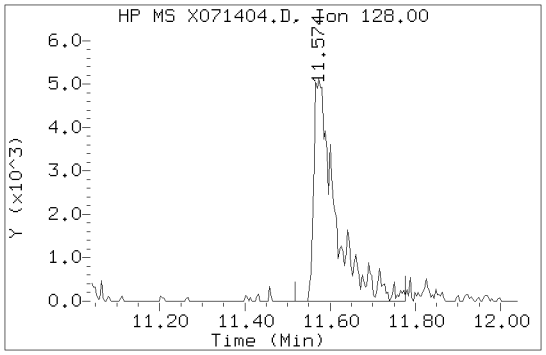
BEFORE

MASS
128
AREA
18131
HEIGHT
5123
20-Jul-2023
15:04
linh
pham



AFTER

MASS
128
AREA
18131
HEIGHT
5123
20-Jul-2023
15:04
linh
pham

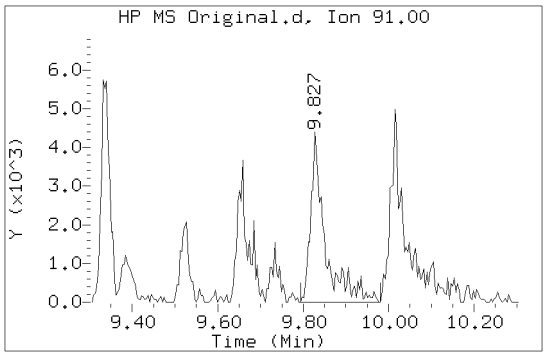


Benzyl Chloride (100-44-7)

Reason Code:

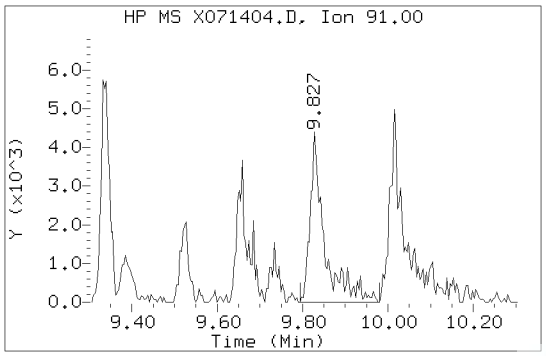
BEFORE

MASS
91
AREA
10259
HEIGHT
4403
20-Jul-2023
15:04
linh
pham



AFTER

MASS
91
AREA
10259
HEIGHT
4403
20-Jul-2023
15:04
linh
pham



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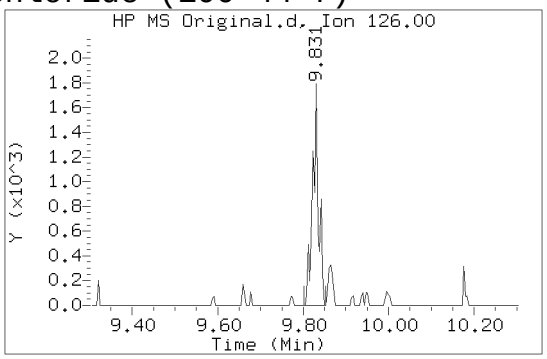
Inj Date : 14-JUL-2023 13:02
InstruID : voa6.i
LabSampID : VSTD001

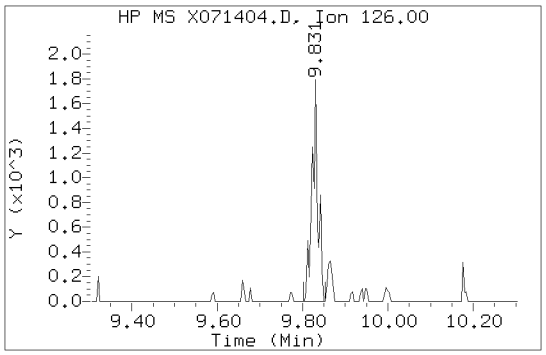
Benzyl Chloride (100-44-7)

Reason Code:

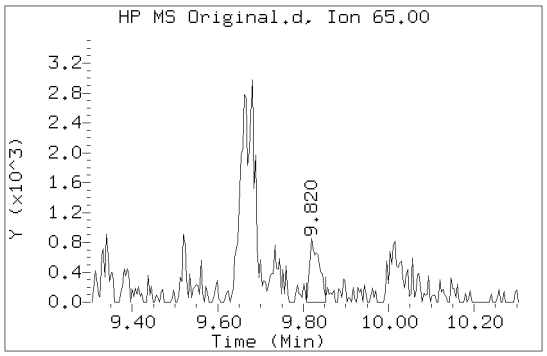
BEFORE
MASS
126
AREA
1709
HEIGHT
1793
20-Jul-2023
15:04
linh
pham



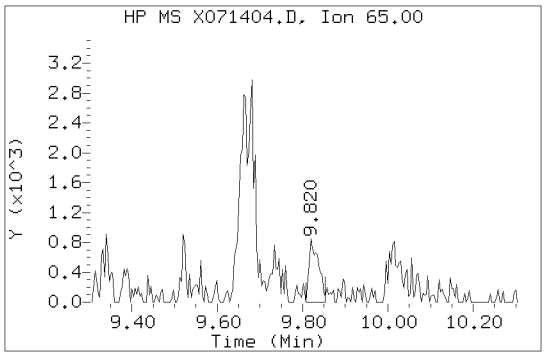
AFTER
MASS
126
AREA
1709
HEIGHT
1793
20-Jul-2023
15:04
linh
pham



BEFORE
MASS
65
AREA
1300
HEIGHT
848
20-Jul-2023
15:04
linh
pham



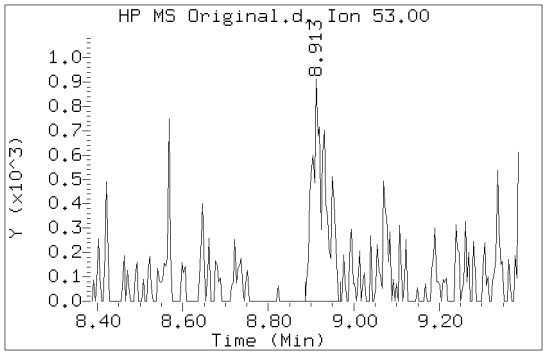
AFTER
MASS
65
AREA
1300
HEIGHT
848
20-Jul-2023
15:04
linh
pham



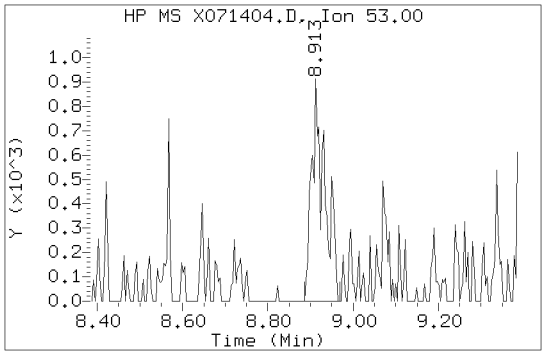
trans-1,4-Dichloro-2-butene (110-57-6)

Reason Code:

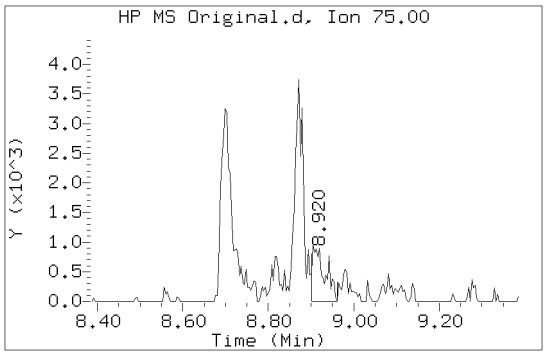
BEFORE
MASS
53
AREA
1951
HEIGHT
913
20-Jul-2023
15:04
linh
pham



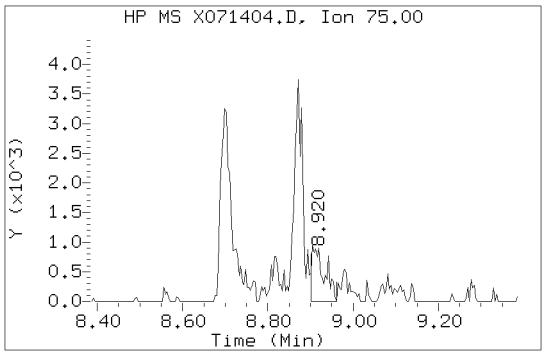
AFTER
MASS
53
AREA
1951
HEIGHT
913
20-Jul-2023
15:04
linh
pham



BEFORE
MASS
75
AREA
1917
HEIGHT
902
20-Jul-2023
15:04
linh
pham



AFTER
MASS
75
AREA
1917
HEIGHT
902
20-Jul-2023
15:04
linh
pham



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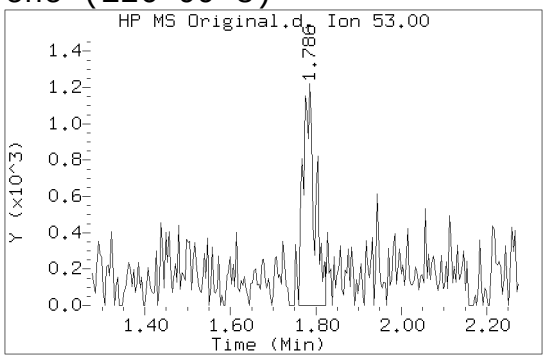
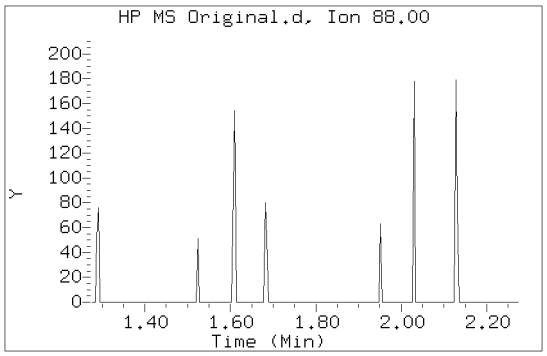
Inj Date : 14-JUL-2023 13:02
InstruID : voa6.i
LabSampID : VSTD001

Chloroprene (126-99-8)

BEFORE
MASS
53
AREA
2402
HEIGHT
1221
20-Jul-2023
15:04
linh
pham

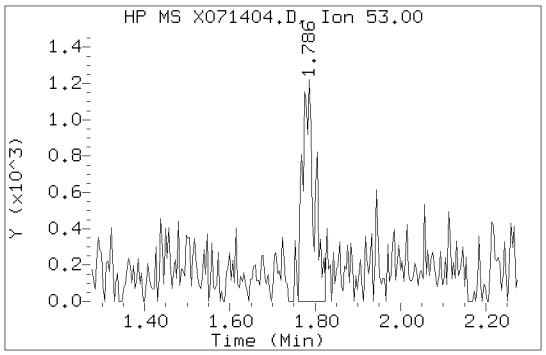


BEFORE
MASS
88
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham

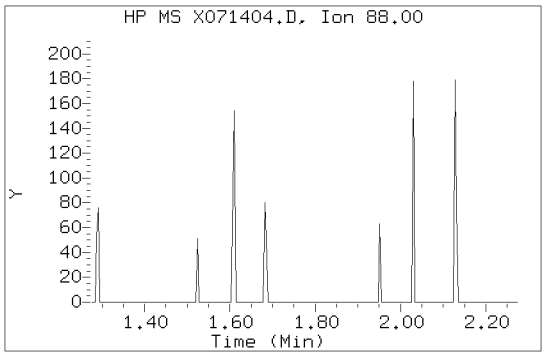


Reason Code:

AFTER
MASS
53
AREA
2402
HEIGHT
1221
20-Jul-2023
15:04
linh
pham

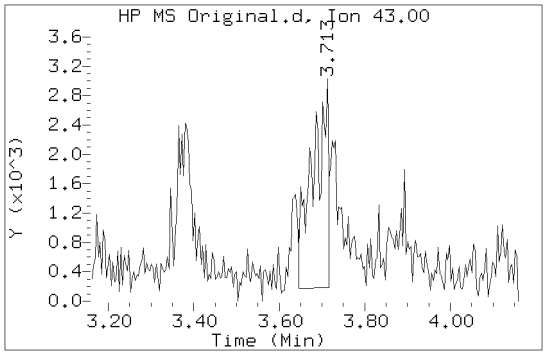


AFTER
MASS
88
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham

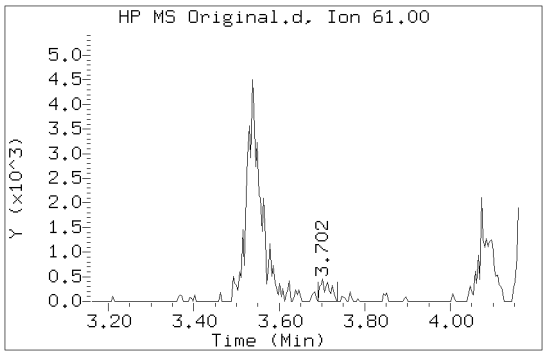


Ethyl Acetate (141-78-6)

BEFORE
MASS
43
AREA
7207
HEIGHT
2844
20-Jul-2023
15:04
linh
pham

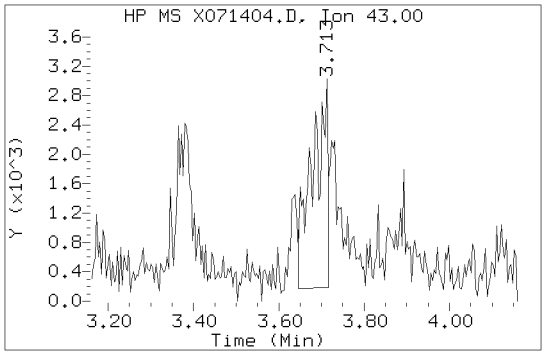


BEFORE
MASS
61
AREA
652
HEIGHT
462
20-Jul-2023
15:04
linh
pham

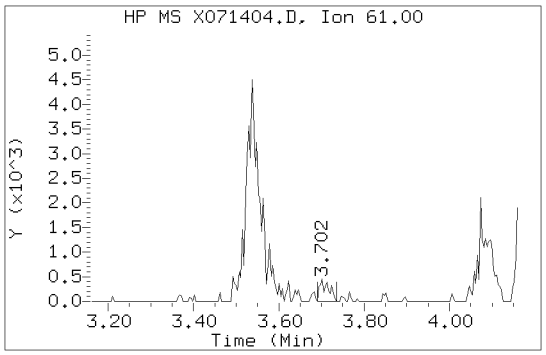


Reason Code:

AFTER
MASS
43
AREA
7207
HEIGHT
2844
20-Jul-2023
15:04
linh
pham



AFTER
MASS
61
AREA
652
HEIGHT
462
20-Jul-2023
15:04
linh
pham



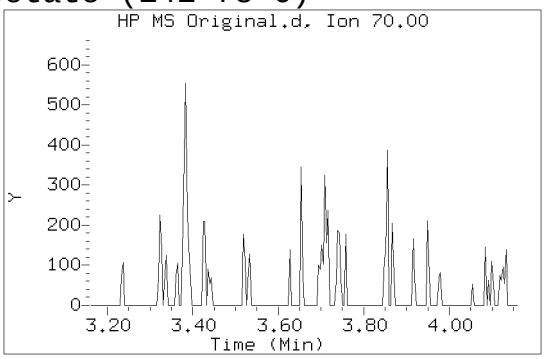
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230714.b\X071404.D
Inj Date : 14-JUL-2023 13:02
InstruID : voa6.i
LabSampID : VSTD001

Ethyl Acetate (141-78-6)

Reason Code:

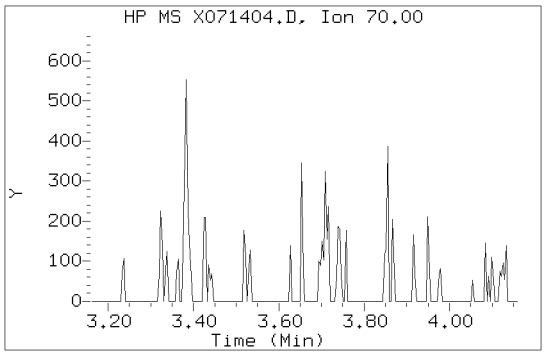
BEFORE

MASS
70
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham



AFTER

MASS
70
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham

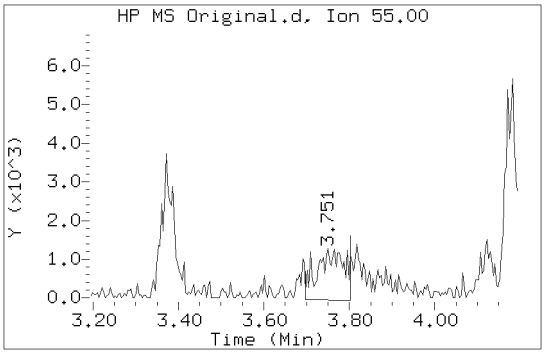


Methyl Acrylate (96-33-3)

Reason Code:

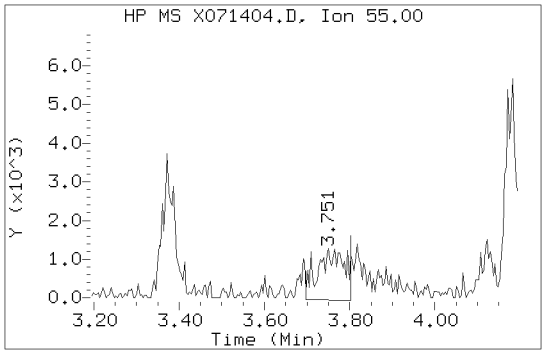
BEFORE

MASS
55
AREA
5778
HEIGHT
1338
20-Jul-2023
15:04
linh
pham



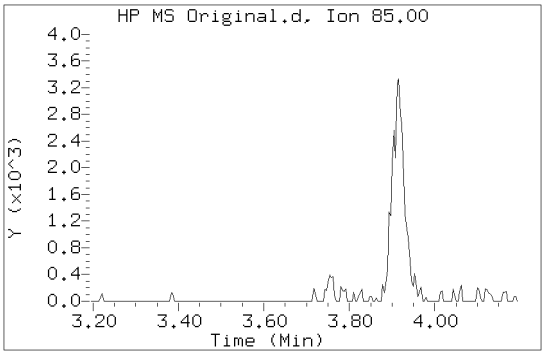
AFTER

MASS
55
AREA
5778
HEIGHT
1338
20-Jul-2023
15:04
linh
pham



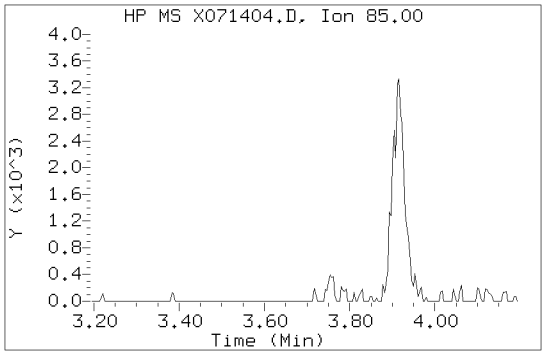
BEFORE

MASS
85
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham



AFTER

MASS
85
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham

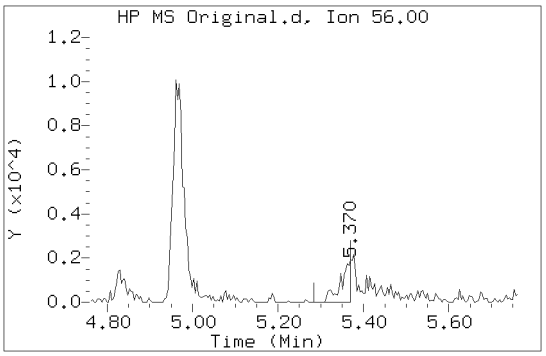


n-Butanol (71-36-3)

Reason Code:

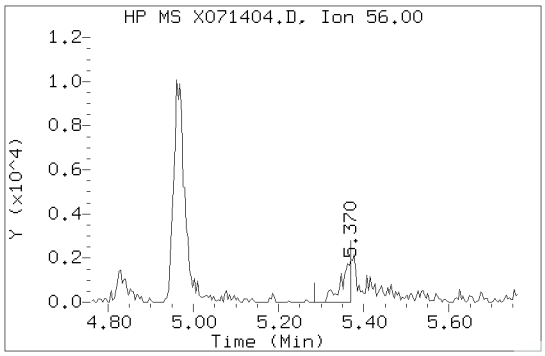
BEFORE

MASS
56
AREA
3103
HEIGHT
1929
20-Jul-2023
15:04
linh
pham



AFTER

MASS
56
AREA
3103
HEIGHT
1929
20-Jul-2023
15:04
linh
pham



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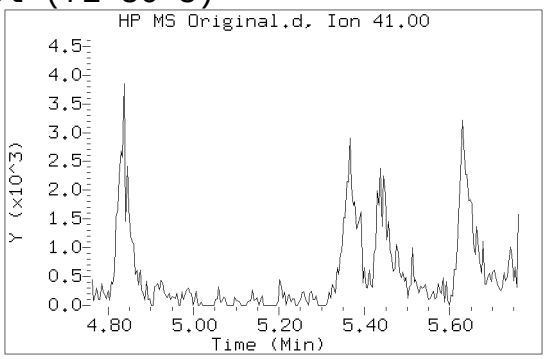
Inj Date : 14-JUL-2023 13:02
InstruID : voa6.i
LabSampID : VSTD001

n-Butanol (71-36-3)

Reason Code:

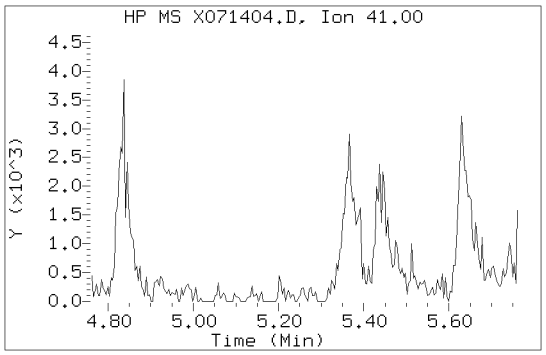
BEFORE

MASS
41
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham



AFTER

MASS
41
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham

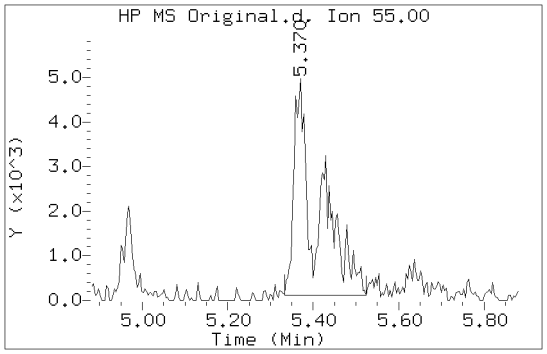


Ethyl Acrylate (140-88-5)

Reason Code:

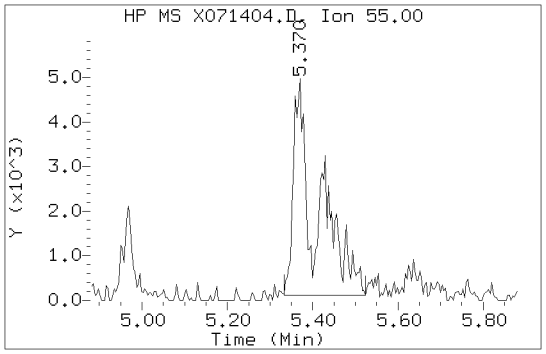
BEFORE

MASS
55
AREA
18196
HEIGHT
4857
20-Jul-2023
15:04
linh
pham



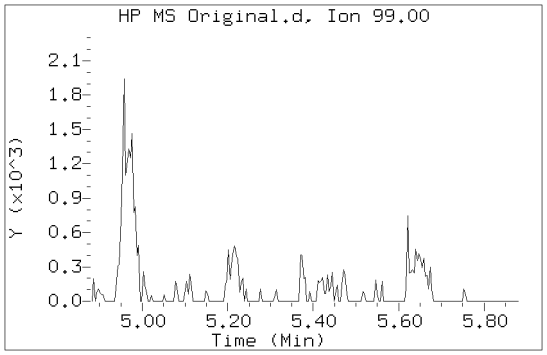
AFTER

MASS
55
AREA
18196
HEIGHT
4857
20-Jul-2023
15:04
linh
pham



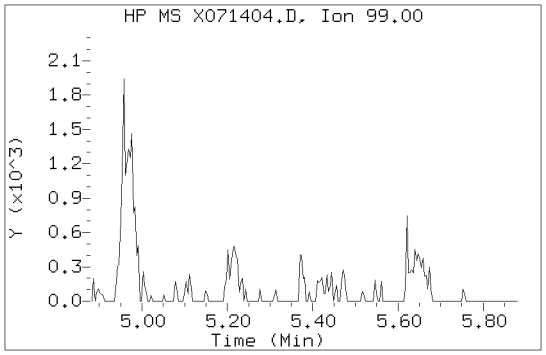
BEFORE

MASS
99
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham



AFTER

MASS
99
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham

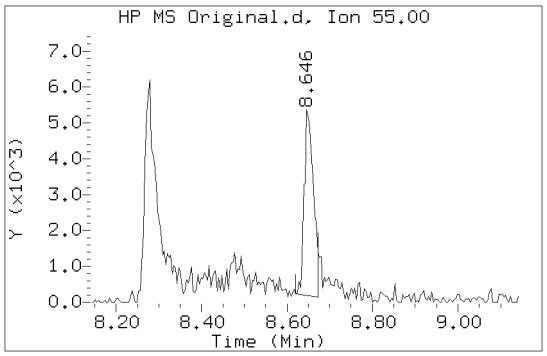


Cyclohexanone (108-94-1)

Reason Code:

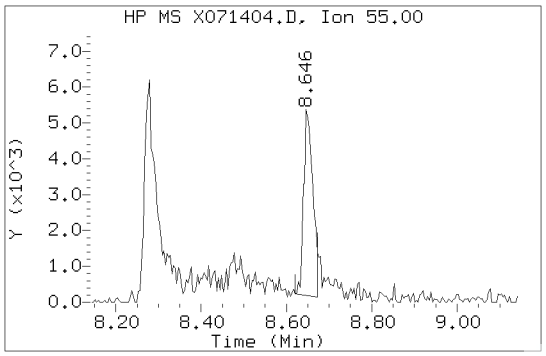
BEFORE

MASS
55
AREA
7972
HEIGHT
5194
20-Jul-2023
15:04
linh
pham



AFTER

MASS
55
AREA
7972
HEIGHT
5194
20-Jul-2023
15:04
linh
pham



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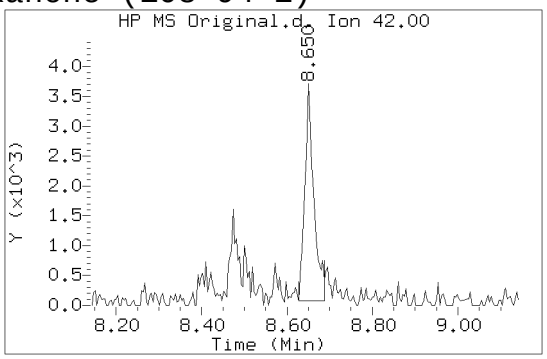
Inj Date : 14-JUL-2023 13:02
InstruID : voa6.i
LabSampID : VSTD001

Cyclohexanone (108-94-1)

Reason Code:

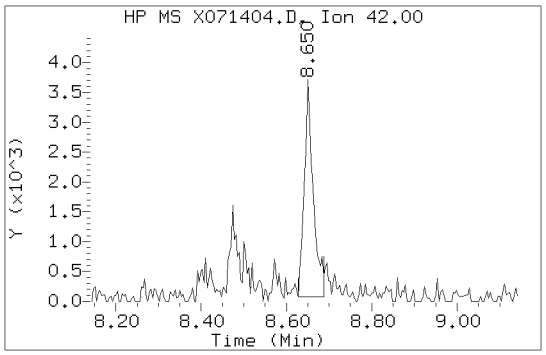
BEFORE

MASS
42
AREA
5392
HEIGHT
3640
20-Jul-2023
15:04
linh
pham



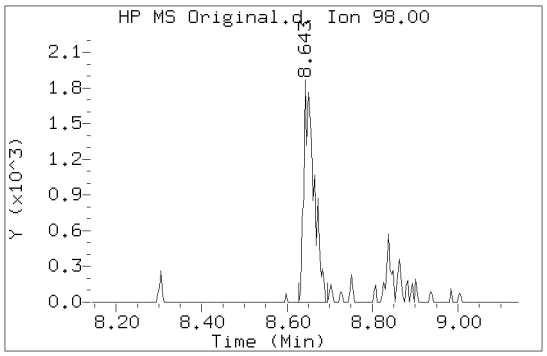
AFTER

MASS
42
AREA
5392
HEIGHT
3640
20-Jul-2023
15:04
linh
pham



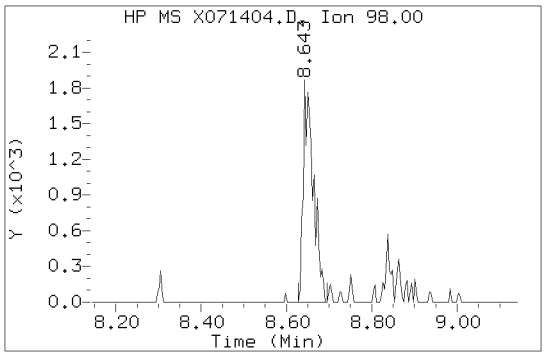
BEFORE

MASS
98
AREA
3142
HEIGHT
1869
20-Jul-2023
15:04
linh
pham



AFTER

MASS
98
AREA
3142
HEIGHT
1869
20-Jul-2023
15:04
linh
pham

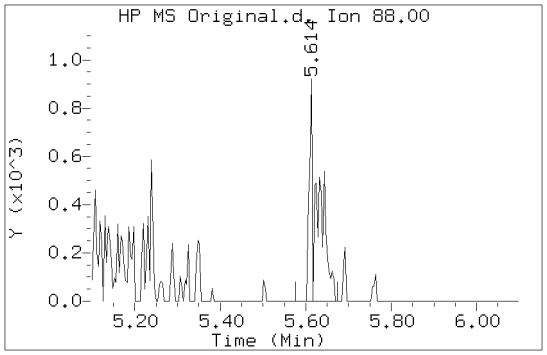


1,4-Dioxane ()

Reason Code:

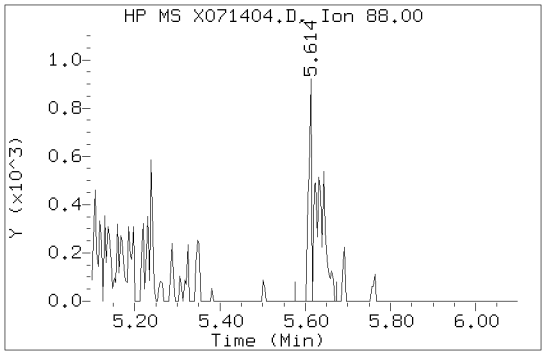
BEFORE

MASS
88
AREA
1290
HEIGHT
921
20-Jul-2023
15:04
linh
pham



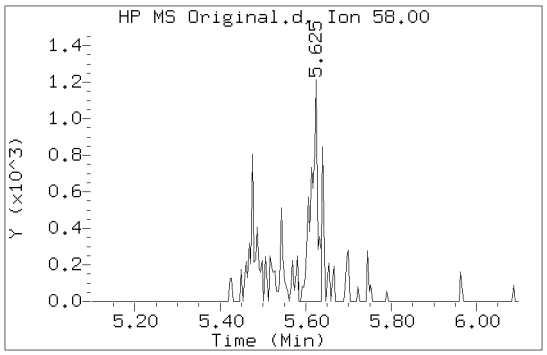
AFTER

MASS
88
AREA
1290
HEIGHT
921
20-Jul-2023
15:04
linh
pham



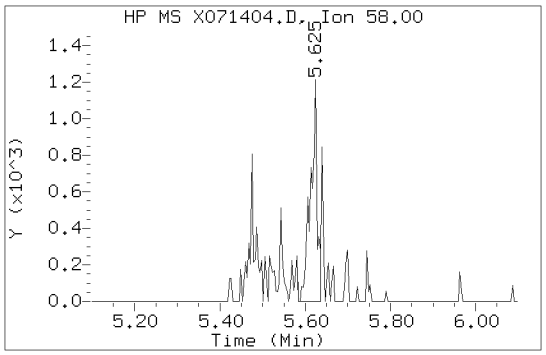
BEFORE

MASS
58
AREA
1310
HEIGHT
1214
20-Jul-2023
15:04
linh
pham



AFTER

MASS
58
AREA
1310
HEIGHT
1214
20-Jul-2023
15:04
linh
pham



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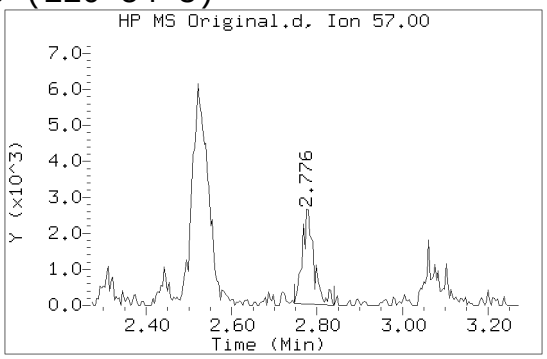
Inj Date : 14-JUL-2023 13:02
InstruID : voa6.i
LabSampID : VSTD001

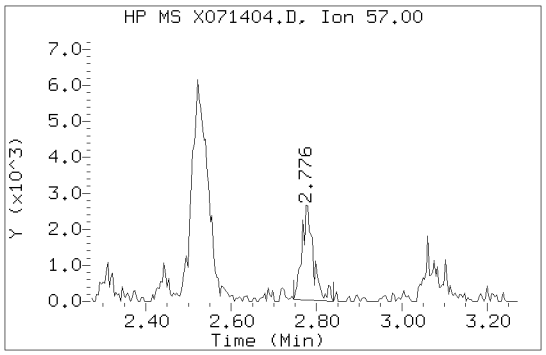
n-Hexane (110-54-3)

Reason Code:

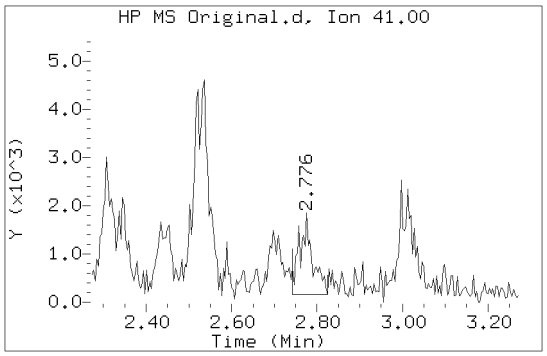
BEFORE
MASS
57
AREA
5000
HEIGHT
2629
20-Jul-2023
15:04
linh
pham



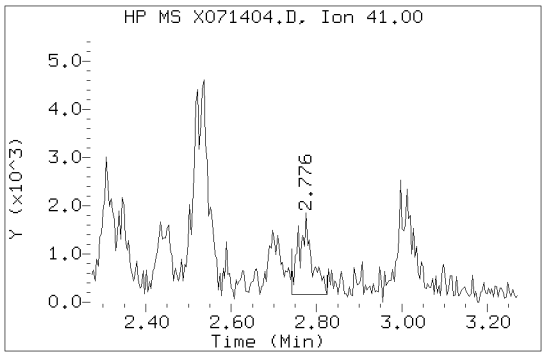
AFTER
MASS
57
AREA
5000
HEIGHT
2629
20-Jul-2023
15:04
linh
pham



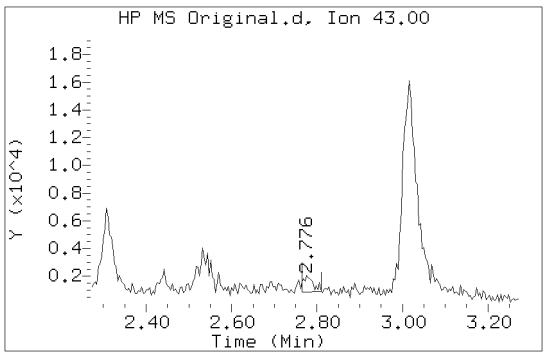
BEFORE
MASS
41
AREA
3569
HEIGHT
1692
20-Jul-2023
15:04
linh
pham



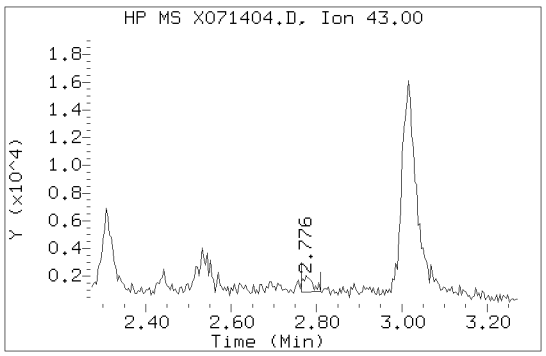
AFTER
MASS
41
AREA
3569
HEIGHT
1692
20-Jul-2023
15:04
linh
pham



BEFORE
MASS
43
AREA
1865
HEIGHT
1174
20-Jul-2023
15:04
linh
pham



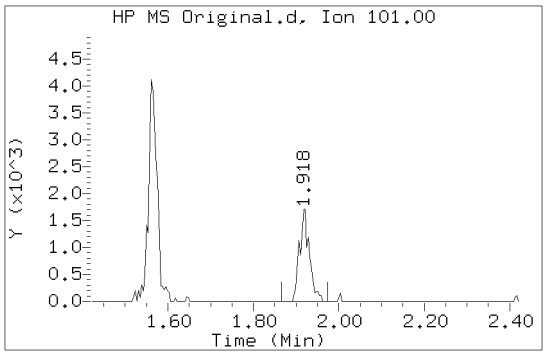
AFTER
MASS
43
AREA
1865
HEIGHT
1174
20-Jul-2023
15:04
linh
pham



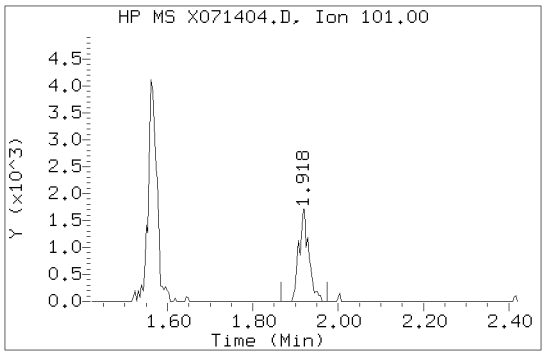
Freon TF (76-13-1)

Reason Code:

BEFORE
MASS
101
AREA
2818
HEIGHT
1714
20-Jul-2023
15:04
linh
pham



AFTER
MASS
101
AREA
2818
HEIGHT
1714
20-Jul-2023
15:04
linh
pham



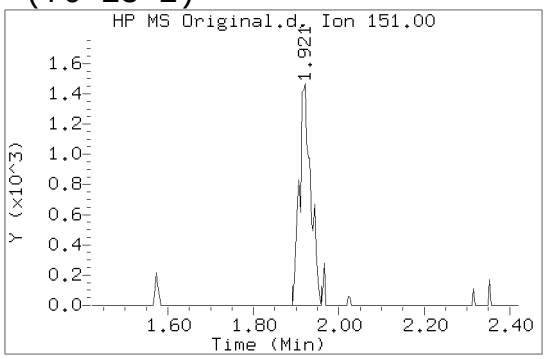
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230714.b\X071404.D
Inj Date : 14-JUL-2023 13:02
InstruID : voa6.i
LabSampID : VSTD001

Freon TF (76-13-1)

Reason Code:

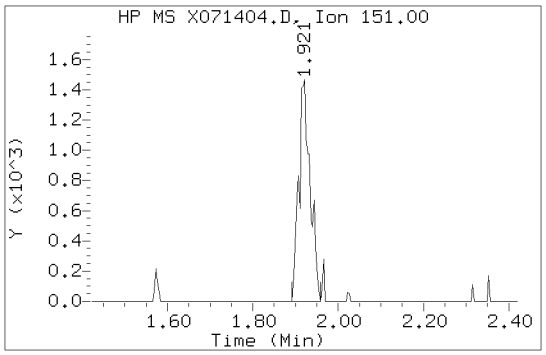
BEFORE

MASS
151
AREA
2770
HEIGHT
1467
20-Jul-2023
15:04
linh
pham



AFTER

MASS
151
AREA
2770
HEIGHT
1467
20-Jul-2023
15:04
linh
pham

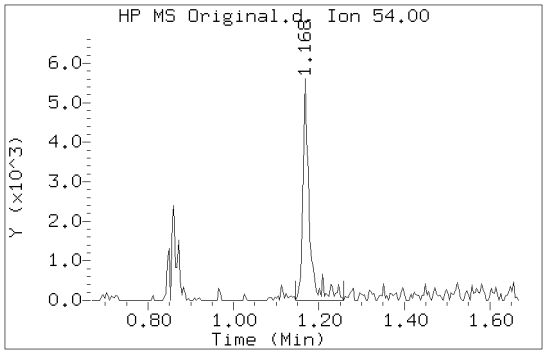


1,3-Butadiene (106-99-0)

Reason Code:

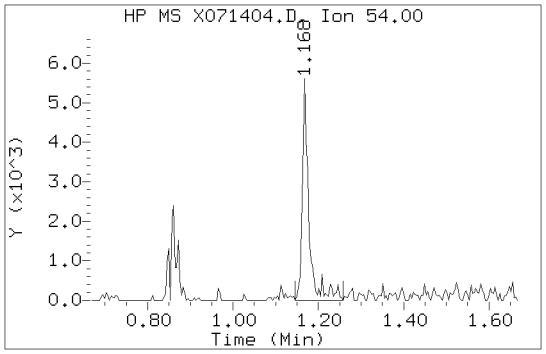
BEFORE

MASS
54
AREA
6040
HEIGHT
5609
20-Jul-2023
15:04
linh
pham



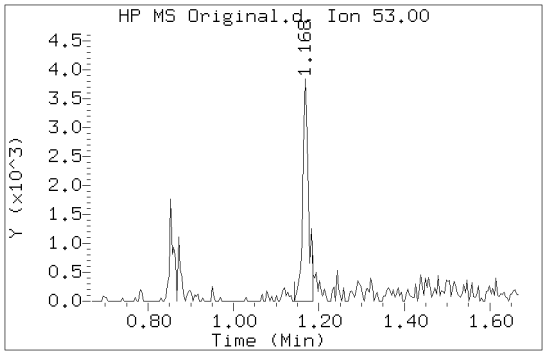
AFTER

MASS
54
AREA
6040
HEIGHT
5609
20-Jul-2023
15:04
linh
pham



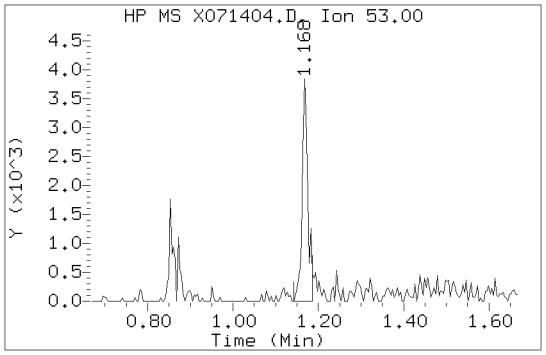
BEFORE

MASS
53
AREA
3632
HEIGHT
3843
20-Jul-2023
15:04
linh
pham



AFTER

MASS
53
AREA
3632
HEIGHT
3843
20-Jul-2023
15:04
linh
pham

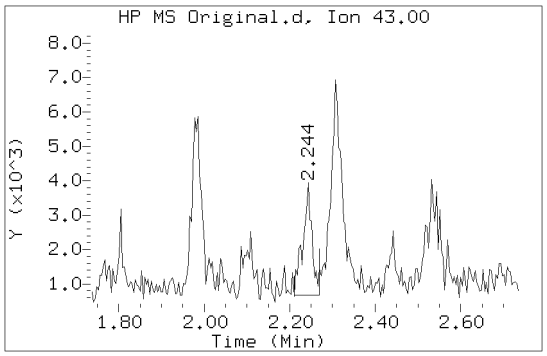


Methyl acetate (79-20-9)

Reason Code:

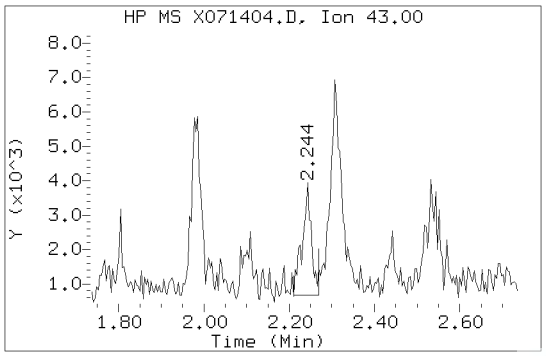
BEFORE

MASS
43
AREA
4992
HEIGHT
3260
20-Jul-2023
15:04
linh
pham



AFTER

MASS
43
AREA
4992
HEIGHT
3260
20-Jul-2023
15:04
linh
pham

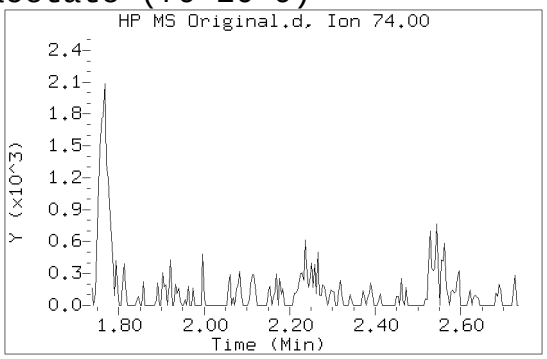


Data File : \\NAHSTWS005\Target\chem\voa6.i\X230714.b\X071404.D
Inj Date : 14-JUL-2023 13:02
InstruID : voa6.i
LabSampID : VSTD001

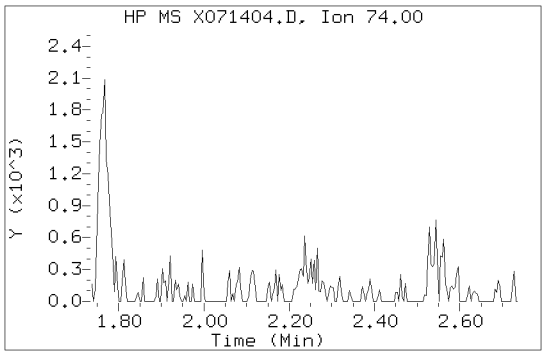
Methyl acetate (79-20-9)

Reason Code:

BEFORE
MASS
74
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham



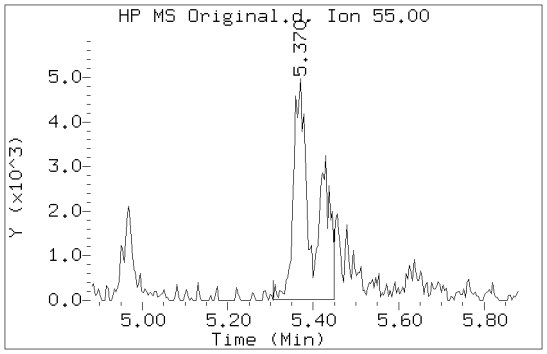
AFTER
MASS
74
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham



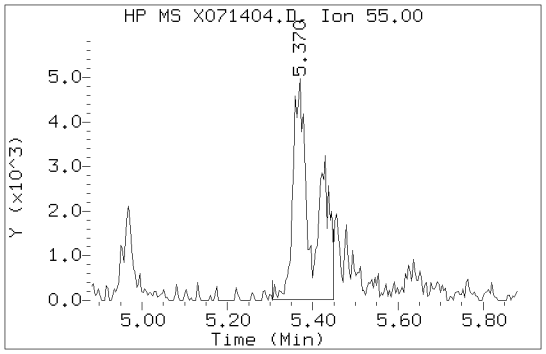
Methylcyclohexane (108-87-2)

Reason Code:

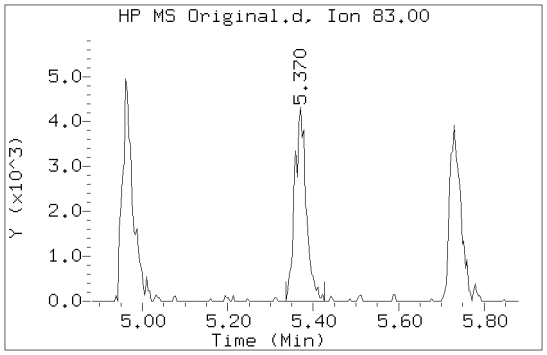
BEFORE
MASS
55
AREA
15783
HEIGHT
4958
20-Jul-2023
15:04
linh
pham



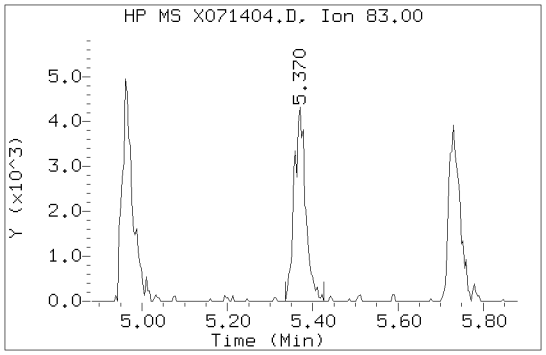
AFTER
MASS
55
AREA
15783
HEIGHT
4958
20-Jul-2023
15:04
linh
pham



BEFORE
MASS
83
AREA
8157
HEIGHT
4322
20-Jul-2023
15:04
linh
pham



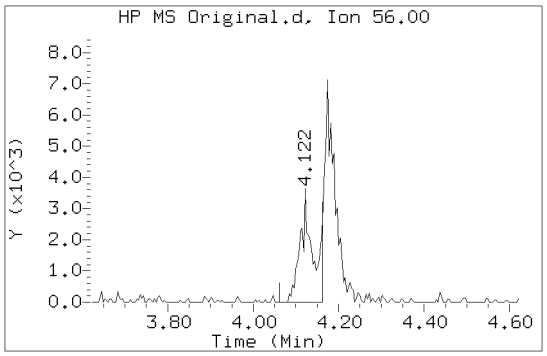
AFTER
MASS
83
AREA
8157
HEIGHT
4322
20-Jul-2023
15:04
linh
pham



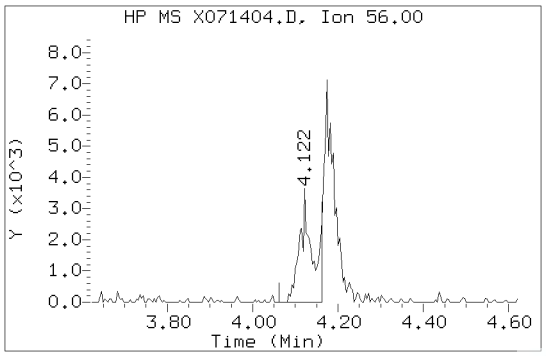
Cyclohexane (110-82-7)

Reason Code:

BEFORE
MASS
56
AREA
7673
HEIGHT
3640
20-Jul-2023
15:04
linh
pham



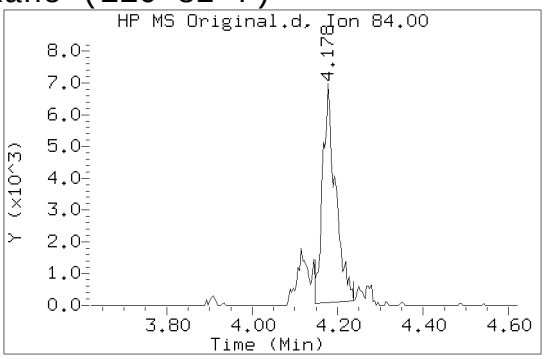
AFTER
MASS
56
AREA
7673
HEIGHT
3640
20-Jul-2023
15:04
linh
pham



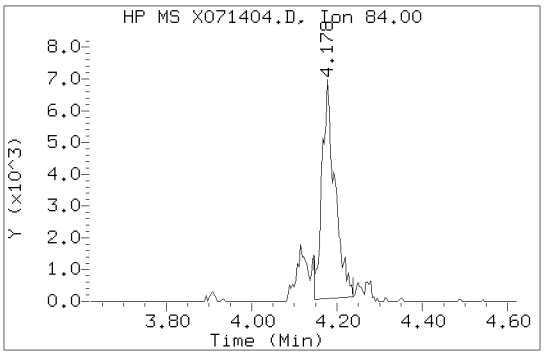
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230714.b\X071404.D
Inj Date : 14-JUL-2023 13:02
InstruID : voa6.i
LabSampID : VSTD001

Cyclohexane (110-82-7)

BEFORE
MASS
84
AREA
14444
HEIGHT
6891
20-Jul-2023
15:04
linh
pham

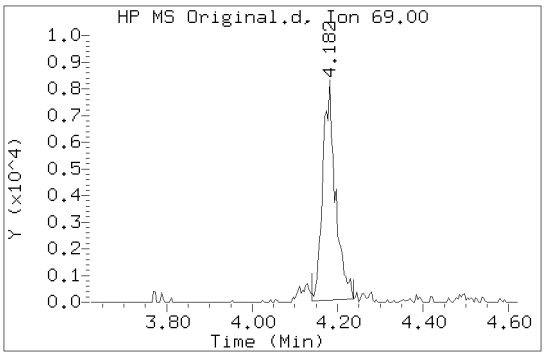


AFTER
MASS
84
AREA
14444
HEIGHT
6891
20-Jul-2023
15:04
linh
pham

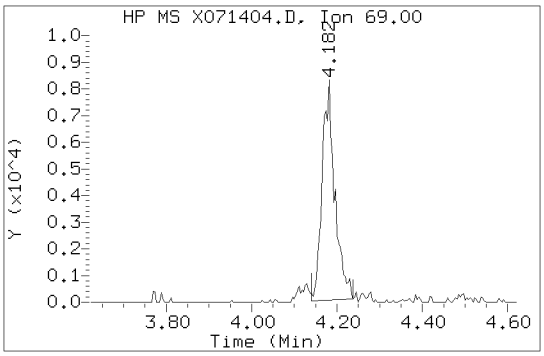


Reason Code:

BEFORE
MASS
69
AREA
16995
HEIGHT
8270
20-Jul-2023
15:04
linh
pham



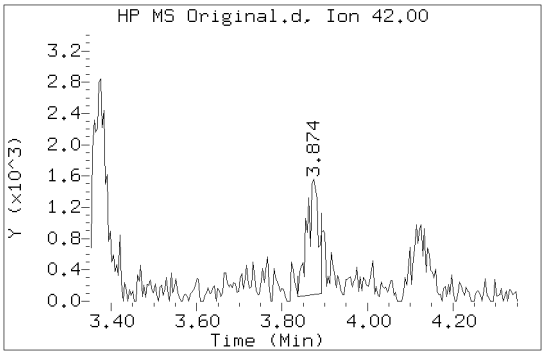
AFTER
MASS
69
AREA
16995
HEIGHT
8270
20-Jul-2023
15:04
linh
pham



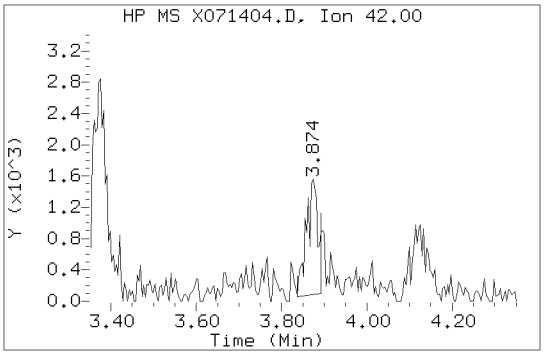
Tetrahydrofuran (109-99-9)

Reason Code:

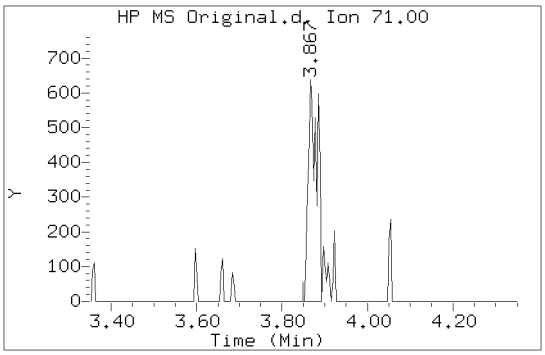
BEFORE
MASS
42
AREA
2815
HEIGHT
1476
20-Jul-2023
15:04
linh
pham



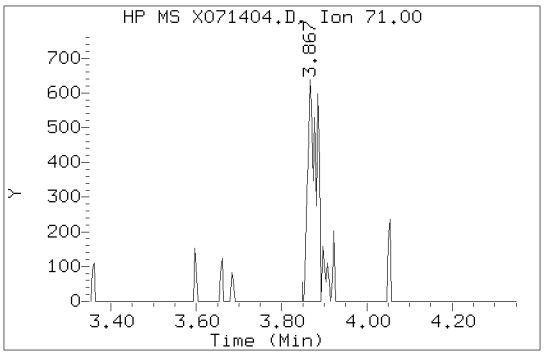
AFTER
MASS
42
AREA
2815
HEIGHT
1476
20-Jul-2023
15:04
linh
pham



BEFORE
MASS
71
AREA
933
HEIGHT
638
20-Jul-2023
15:04
linh
pham



AFTER
MASS
71
AREA
933
HEIGHT
638
20-Jul-2023
15:04
linh
pham



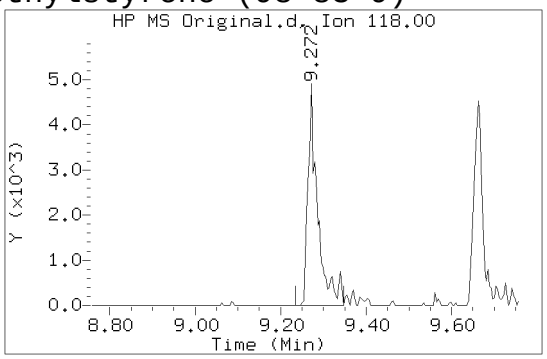
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230714.b\X071404.D
Inj Date : 14-JUL-2023 13:02
InstruID : voa6.i
LabSampID : VSTD001

alpha-Methylstyrene (98-83-9)

Reason Code:

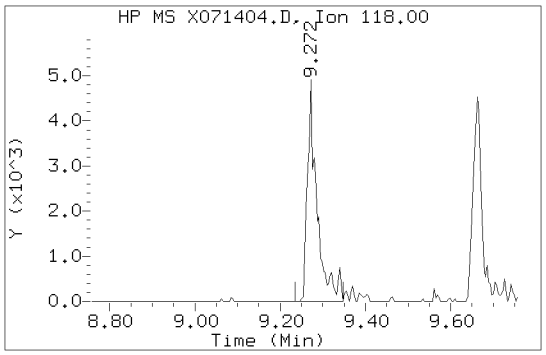
BEFORE

MASS
118
AREA
7755
HEIGHT
4913
20-Jul-2023
15:04
linh
pham



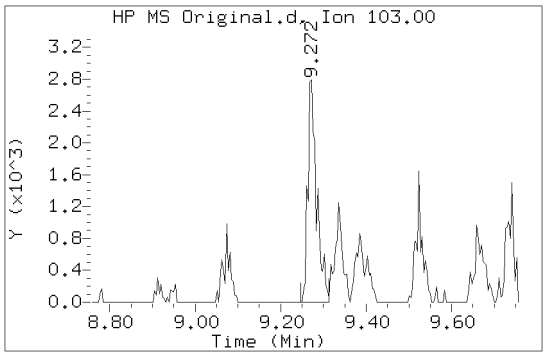
AFTER

MASS
118
AREA
7755
HEIGHT
4913
20-Jul-2023
15:04
linh
pham



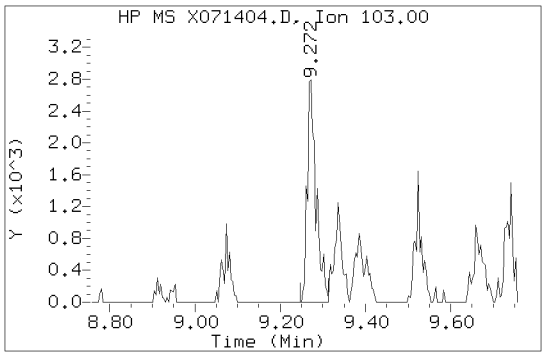
BEFORE

MASS
103
AREA
4028
HEIGHT
2790
20-Jul-2023
15:04
linh
pham



AFTER

MASS
103
AREA
4028
HEIGHT
2790
20-Jul-2023
15:04
linh
pham

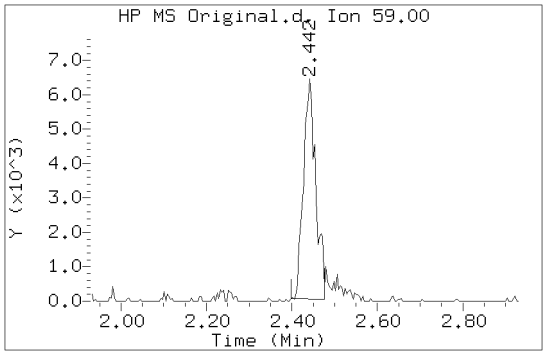


Tert-butyl alcohol (75-65-0)

Reason Code:

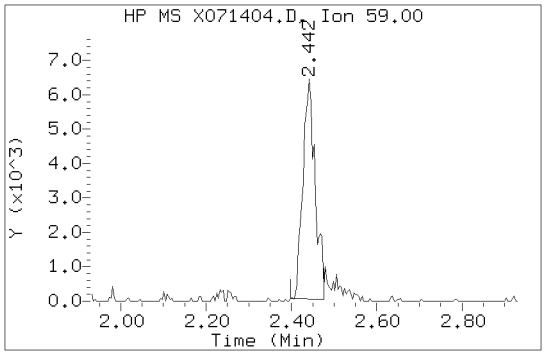
BEFORE

MASS
59
AREA
12965
HEIGHT
6400
20-Jul-2023
15:04
linh
pham



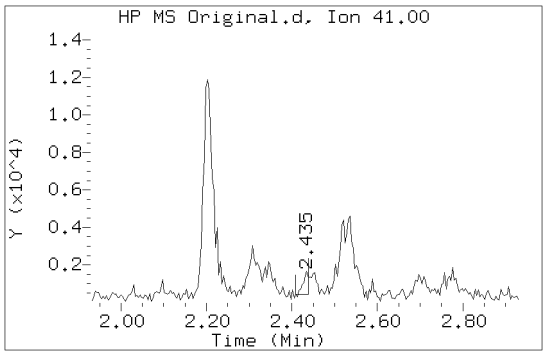
AFTER

MASS
59
AREA
12965
HEIGHT
6400
20-Jul-2023
15:04
linh
pham



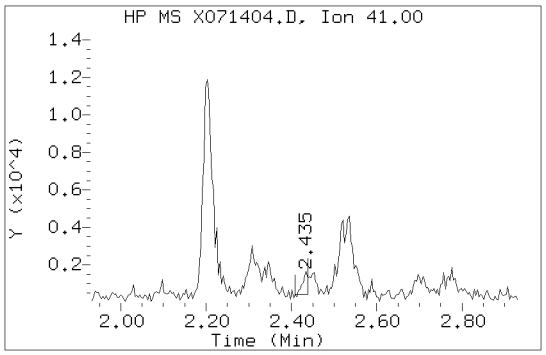
BEFORE

MASS
41
AREA
1041
HEIGHT
1246
20-Jul-2023
15:04
linh
pham



AFTER

MASS
41
AREA
1041
HEIGHT
1246
20-Jul-2023
15:04
linh
pham



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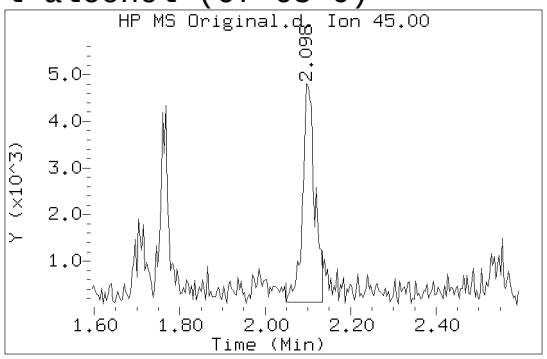
Inj Date : 14-JUL-2023 13:02
InstruID : voa6.i
LabSampID : VSTD001

Isopropyl alcohol (67-63-0)

Reason Code:

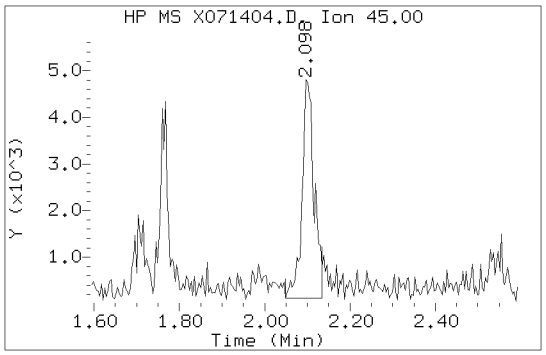
BEFORE

MASS
45
AREA
9372
HEIGHT
4685
20-Jul-2023
15:04
linh
pham



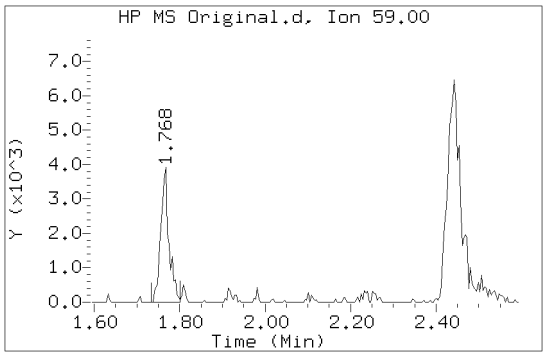
AFTER

MASS
45
AREA
9372
HEIGHT
4685
20-Jul-2023
15:04
linh
pham



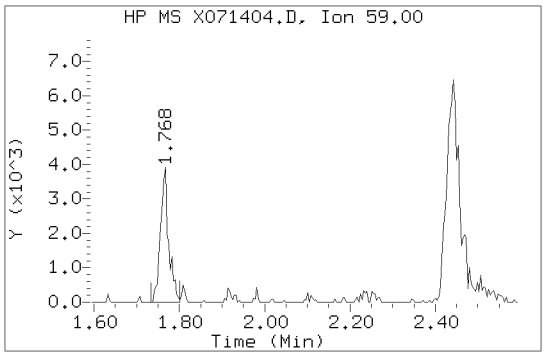
BEFORE

MASS
59
AREA
5211
HEIGHT
3930
20-Jul-2023
15:04
linh
pham



AFTER

MASS
59
AREA
5211
HEIGHT
3930
20-Jul-2023
15:04
linh
pham

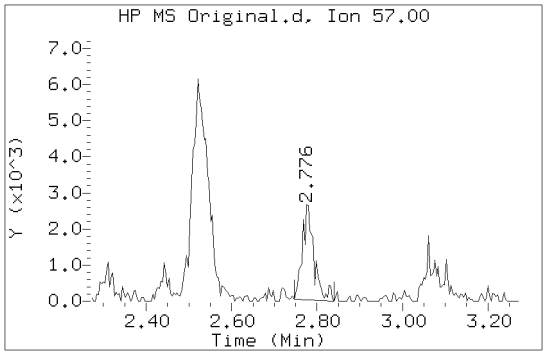


Allyl alcohol (107-18-6)

Reason Code:

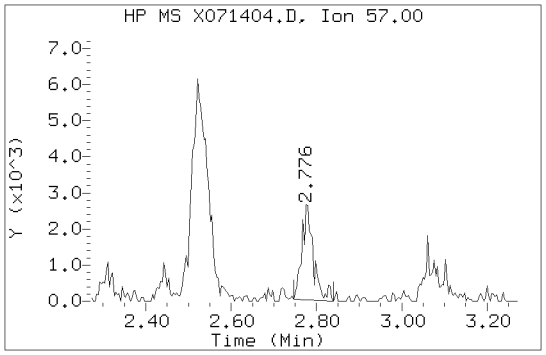
BEFORE

MASS
57
AREA
5000
HEIGHT
2629
20-Jul-2023
15:04
linh
pham



AFTER

MASS
57
AREA
5000
HEIGHT
2629
20-Jul-2023
15:04
linh
pham

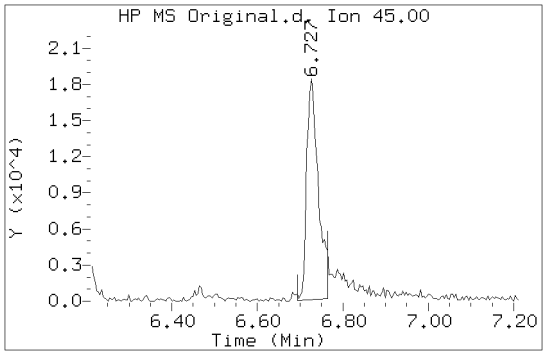


4-Methyl-2-pentanol (108-11-2)

Reason Code:

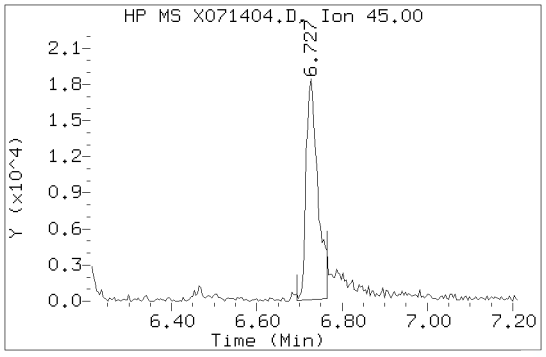
BEFORE

MASS
45
AREA
35175
HEIGHT
18341
20-Jul-2023
15:04
linh
pham



AFTER

MASS
45
AREA
35175
HEIGHT
18341
20-Jul-2023
15:04
linh
pham



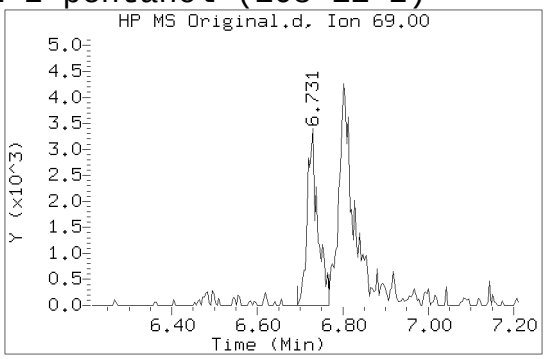
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230714.b\X071404.D
Inj Date : 14-JUL-2023 13:02
InstruID : voa6.i
LabSampID : VSTD001

4-Methyl-2-pentanol (108-11-2)

Reason Code:

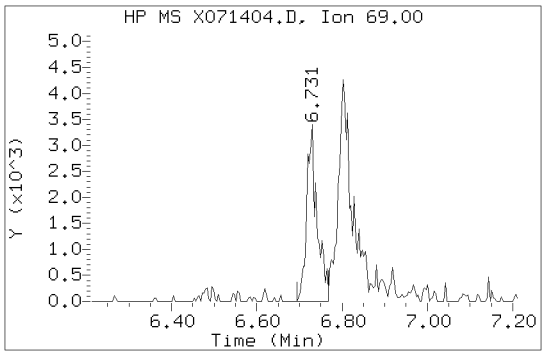
BEFORE

MASS
69
AREA
5748
HEIGHT
3399
20-Jul-2023
15:04
linh
pham



AFTER

MASS
69
AREA
5748
HEIGHT
3399
20-Jul-2023
15:04
linh
pham

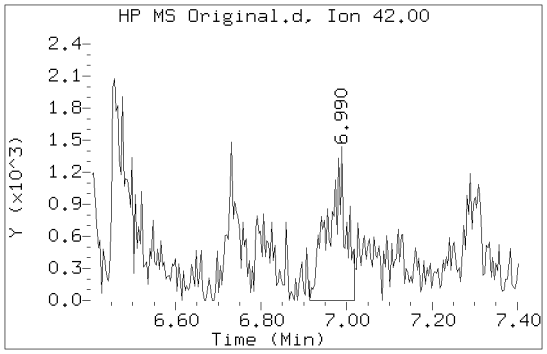


Amyl alcohol (71-41-0)

Reason Code:

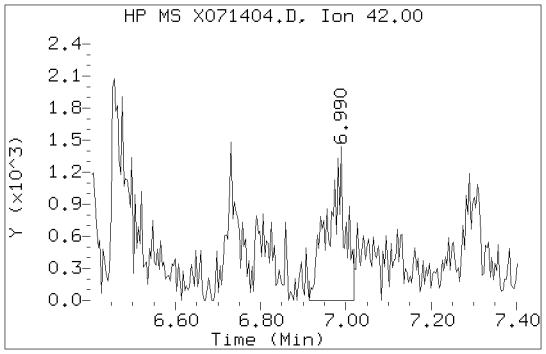
BEFORE

MASS
42
AREA
3944
HEIGHT
1442
20-Jul-2023
15:04
linh
pham



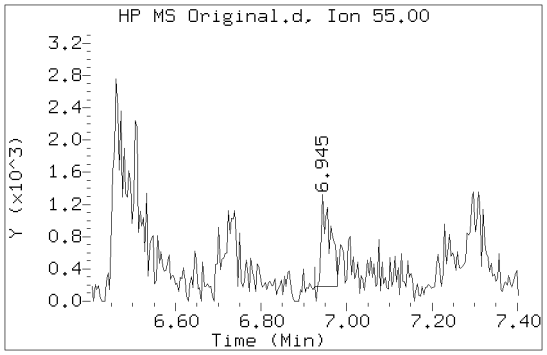
AFTER

MASS
42
AREA
3944
HEIGHT
1442
20-Jul-2023
15:04
linh
pham



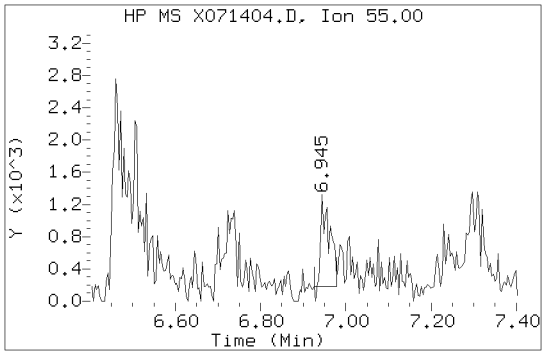
BEFORE

MASS
55
AREA
1617
HEIGHT
1137
20-Jul-2023
15:04
linh
pham



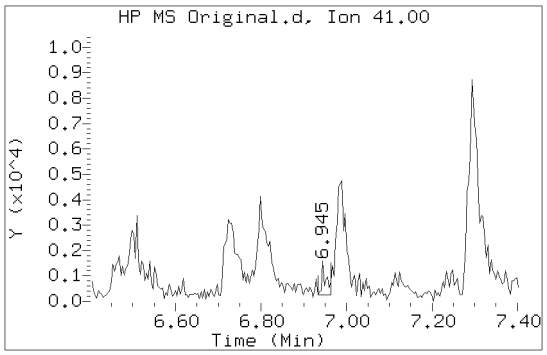
AFTER

MASS
55
AREA
1617
HEIGHT
1137
20-Jul-2023
15:04
linh
pham



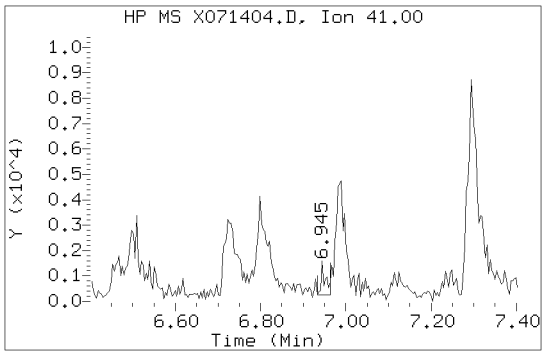
BEFORE

MASS
41
AREA
915
HEIGHT
1326
20-Jul-2023
15:04
linh
pham



AFTER

MASS
41
AREA
915
HEIGHT
1326
20-Jul-2023
15:04
linh
pham



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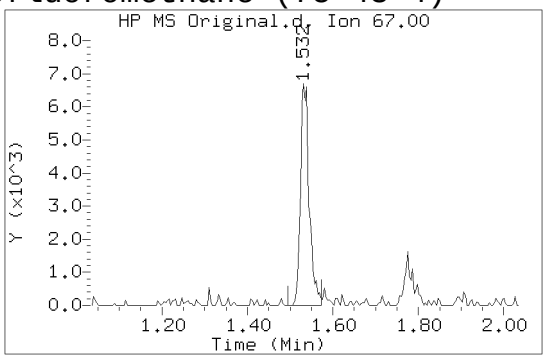
Inj Date : 14-JUL-2023 13:02
InstruID : voa6.i
LabSampID : VSTD001

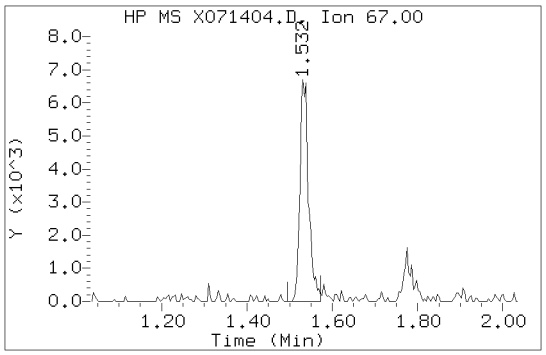
Dichlorofluoromethane (75-43-4)

Reason Code:

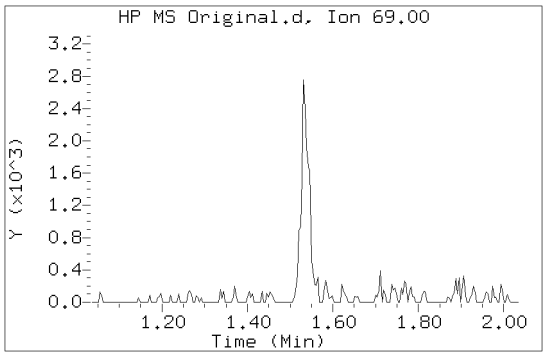
BEFORE
MASS
67
AREA
9743
HEIGHT
6701
20-Jul-2023
15:04
linh
pham



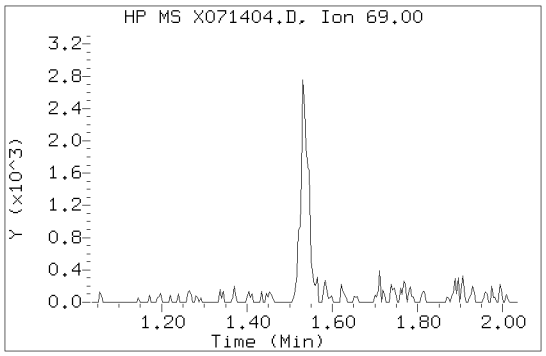
AFTER
MASS
67
AREA
9743
HEIGHT
6701
20-Jul-2023
15:04
linh
pham



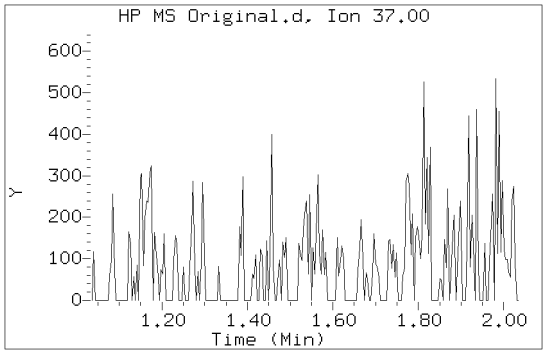
BEFORE
MASS
69
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham



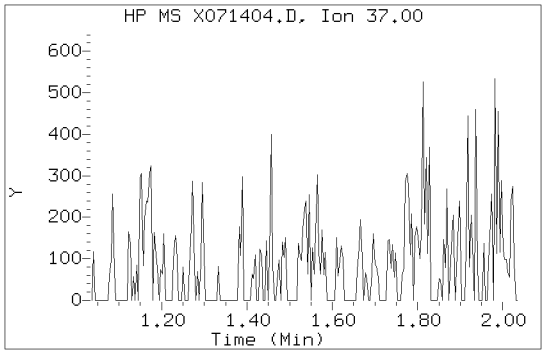
AFTER
MASS
69
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham



BEFORE
MASS
37
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham



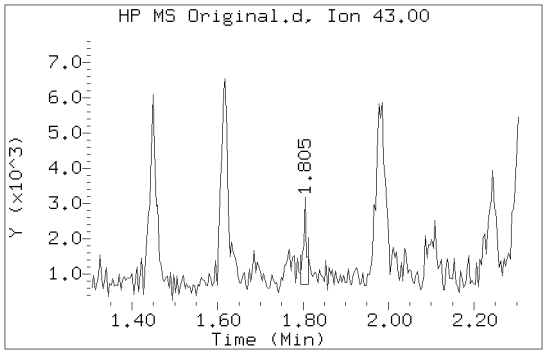
AFTER
MASS
37
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham



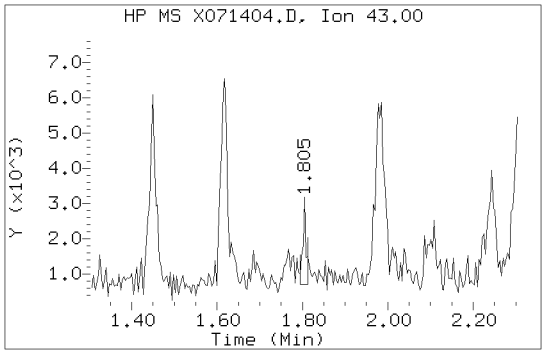
Propylene oxide ()

Reason Code:

BEFORE
MASS
43
AREA
1409
HEIGHT
2479
20-Jul-2023
15:04
linh
pham



AFTER
MASS
43
AREA
1409
HEIGHT
2479
20-Jul-2023
15:04
linh
pham



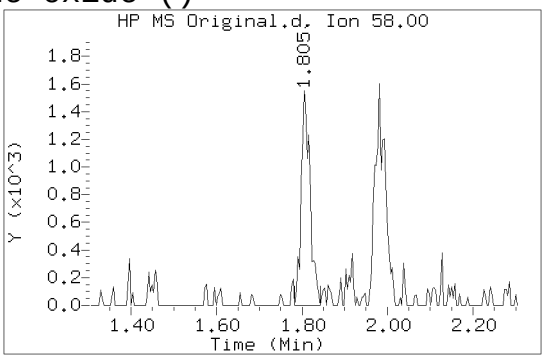
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230714.b\X071404.D
Inj Date : 14-JUL-2023 13:02
InstruID : voa6.i
LabSampID : VSTD001

Propylene oxide ()

Reason Code:

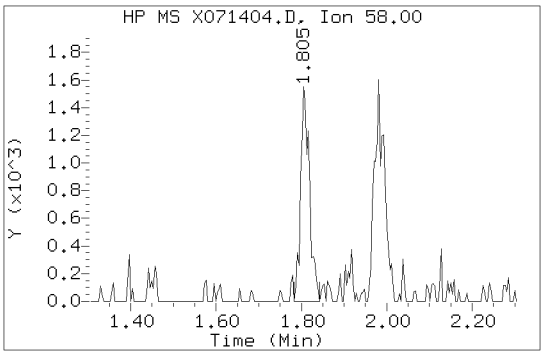
BEFORE

MASS
58
AREA
2276
HEIGHT
1552
20-Jul-2023
15:04
linh
pham



AFTER

MASS
58
AREA
2276
HEIGHT
1552
20-Jul-2023
15:04
linh
pham

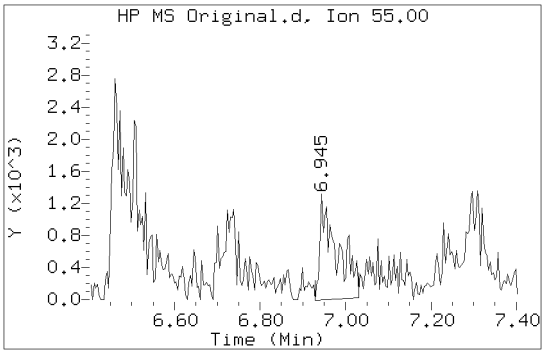


3-Methyl-1-butanol (123-51-3)

Reason Code:

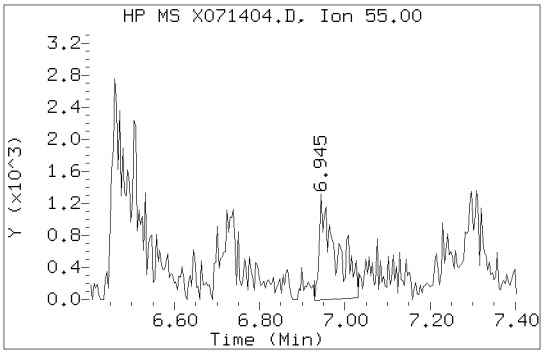
BEFORE

MASS
55
AREA
3623
HEIGHT
1323
20-Jul-2023
15:04
linh
pham



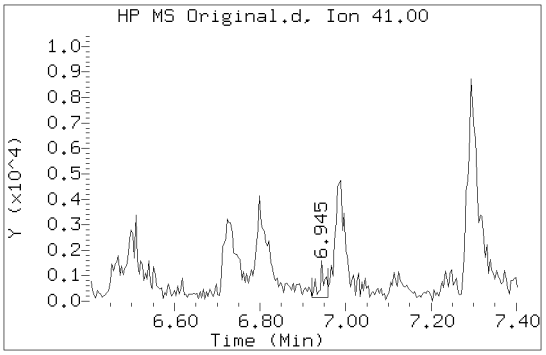
AFTER

MASS
55
AREA
3623
HEIGHT
1323
20-Jul-2023
15:04
linh
pham



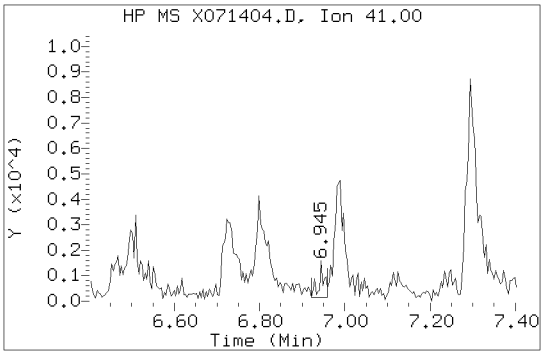
BEFORE

MASS
41
AREA
1239
HEIGHT
1440
20-Jul-2023
15:04
linh
pham



AFTER

MASS
41
AREA
1239
HEIGHT
1440
20-Jul-2023
15:04
linh
pham

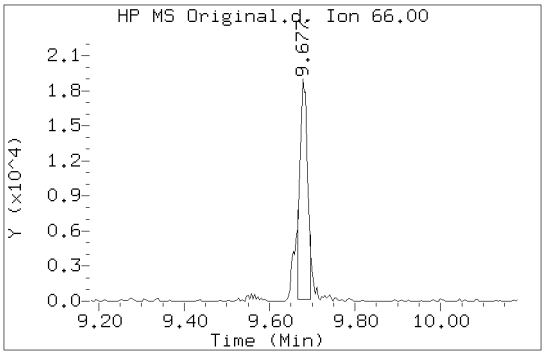


Dicyclopentadiene (77-73-6)

Reason Code:

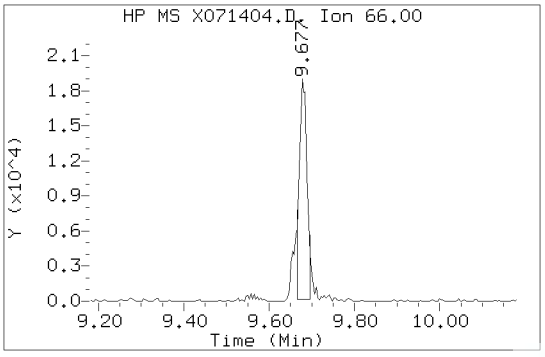
BEFORE

MASS
66
AREA
24319
HEIGHT
18861
20-Jul-2023
15:04
linh
pham



AFTER

MASS
66
AREA
24319
HEIGHT
18861
20-Jul-2023
15:04
linh
pham



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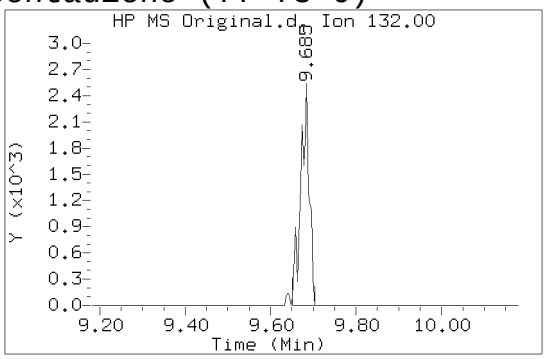
Inj Date : 14-JUL-2023 13:02
InstruID : voa6.i
LabSampID : VSTD001

Dicyclopentadiene (77-73-6)

Reason Code:

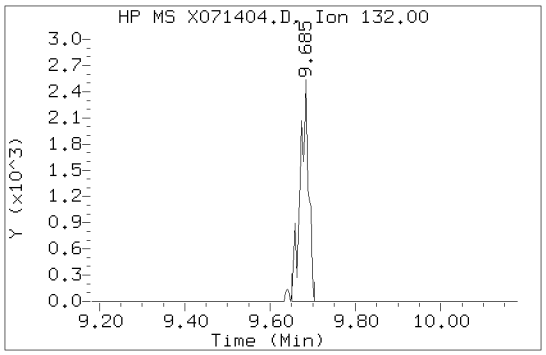
BEFORE

MASS
132
AREA
3579
HEIGHT
2538
20-Jul-2023
15:04
linh
pham



AFTER

MASS
132
AREA
3579
HEIGHT
2538
20-Jul-2023
15:04
linh
pham

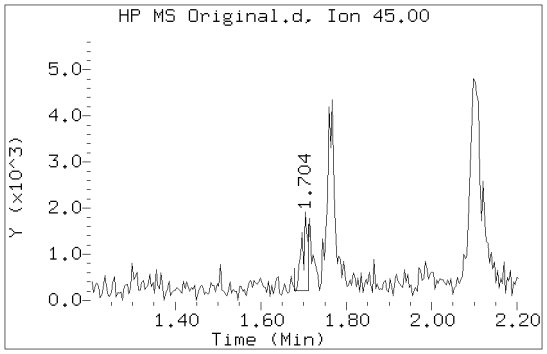


Ethanol (64-17-5)

Reason Code:

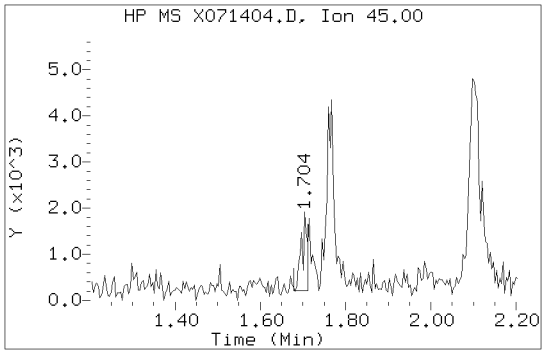
BEFORE

MASS
45
AREA
1613
HEIGHT
1703
20-Jul-2023
15:04
linh
pham



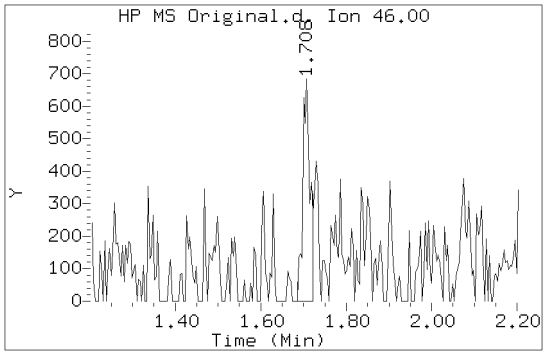
AFTER

MASS
45
AREA
1613
HEIGHT
1703
20-Jul-2023
15:04
linh
pham



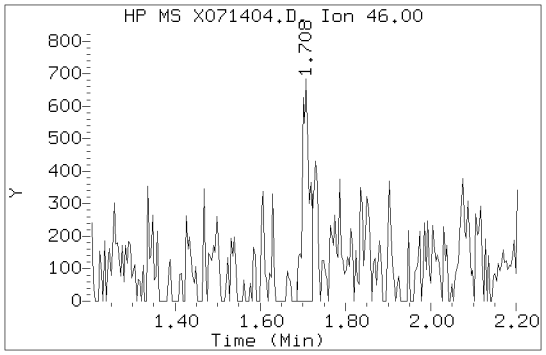
BEFORE

MASS
46
AREA
829
HEIGHT
684
20-Jul-2023
15:04
linh
pham



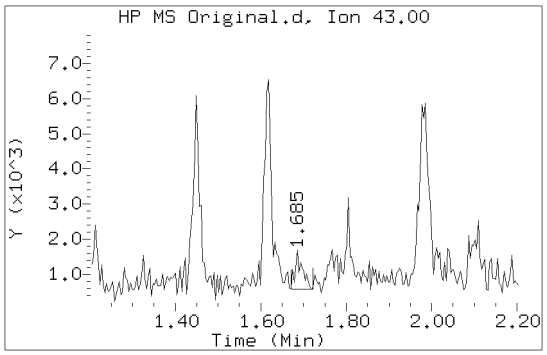
AFTER

MASS
46
AREA
829
HEIGHT
684
20-Jul-2023
15:04
linh
pham



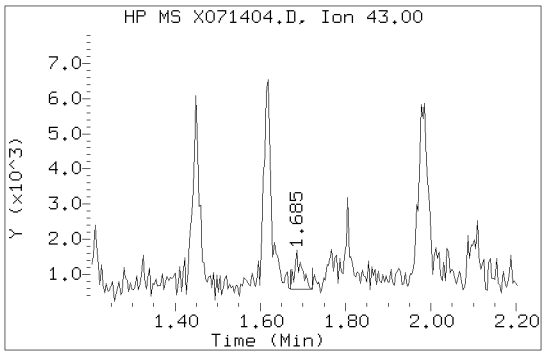
BEFORE

MASS
43
AREA
1337
HEIGHT
1114
20-Jul-2023
15:04
linh
pham



AFTER

MASS
43
AREA
1337
HEIGHT
1114
20-Jul-2023
15:04
linh
pham



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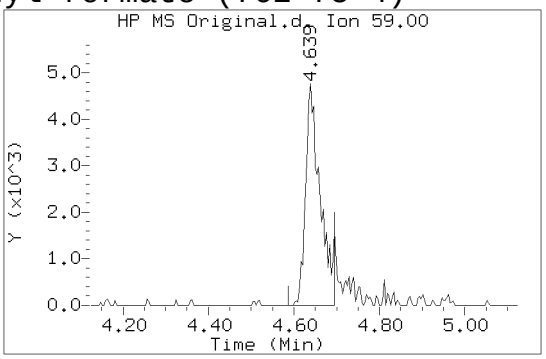
Inj Date : 14-JUL-2023 13:02
InstruID : voa6.i
LabSampID : VSTD001

tert-Butyl formate (762-75-4)

Reason Code:

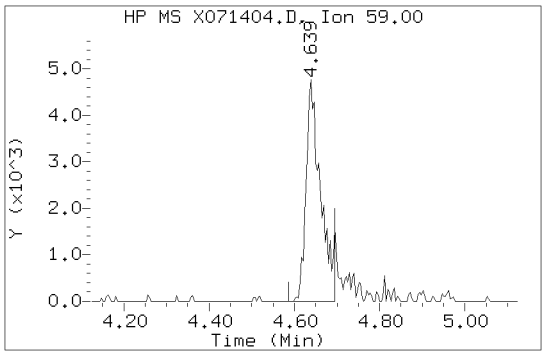
BEFORE

MASS
59
AREA
11427
HEIGHT
4768
20-Jul-2023
15:04
linh
pham



AFTER

MASS
59
AREA
11427
HEIGHT
4768
20-Jul-2023
15:04
linh
pham



BEFORE

MASS
57
AREA
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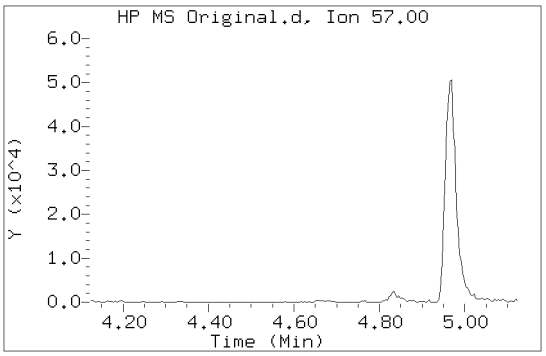
HEIGHT
0
20-Jul-2023
15:04
linh
pham



AFTER

MASS
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AREA
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HEIGHT
0
20-Jul-2023
15:04
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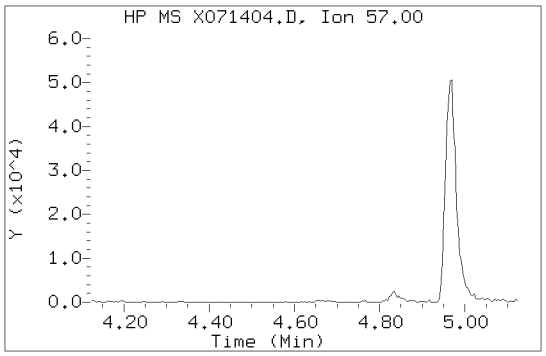
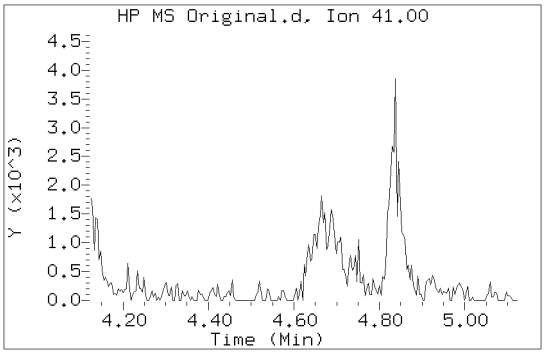
pham



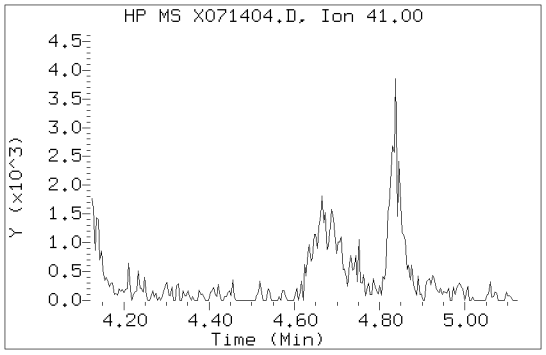
BEFORE

MASS
41
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham



AFTER

MASS
41
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham

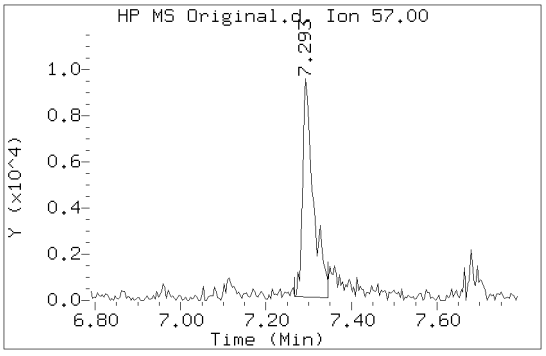


3,3-Dimethyl-1-butanol (624-95-3)

Reason Code:

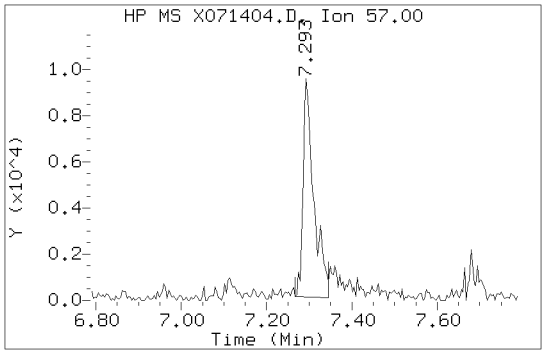
BEFORE

MASS
57
AREA
16922
HEIGHT
9467
20-Jul-2023
15:04
linh
pham



AFTER

MASS
57
AREA
16922
HEIGHT
9467
20-Jul-2023
15:04
linh
pham



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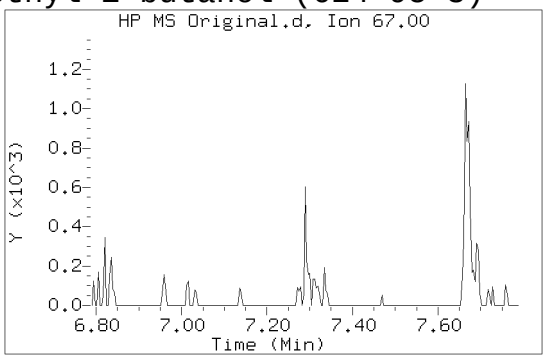
Inj Date : 14-JUL-2023 13:02
InstruID : voa6.i
LabSampID : VSTD001

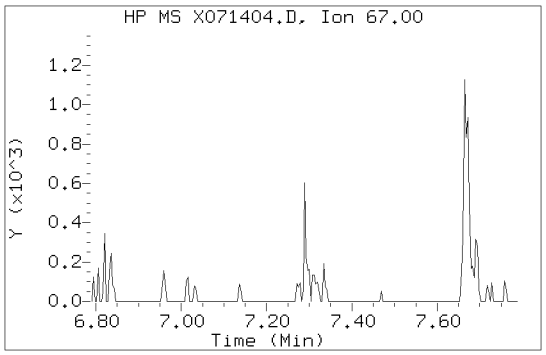
3,3-Dimethyl-1-butanol (624-95-3)

Reason Code:

BEFORE
MASS
67
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham



AFTER
MASS
67
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham



BEFORE
MASS
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AREA
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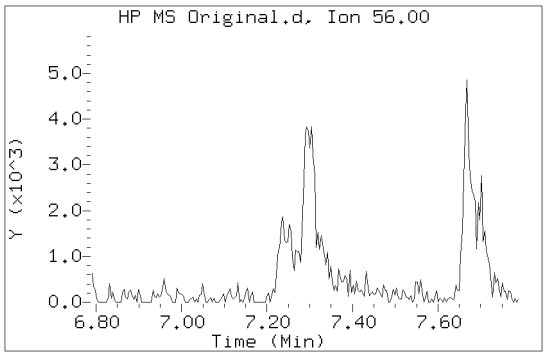
HEIGHT
0
20-Jul-2023
15:04
linh
pham



AFTER
MASS
56
AREA
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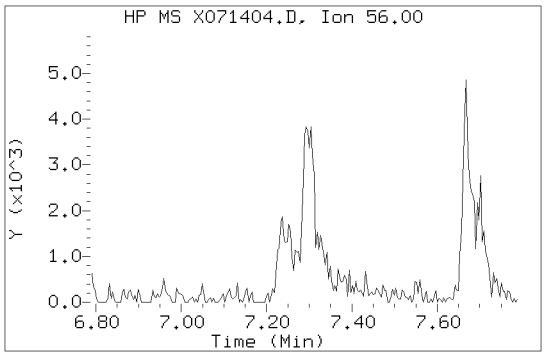
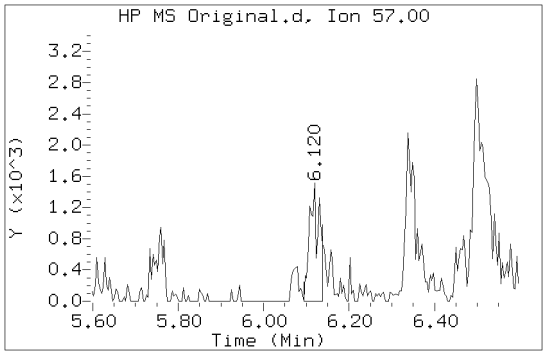
HEIGHT
0
20-Jul-2023
15:04
linh
pham



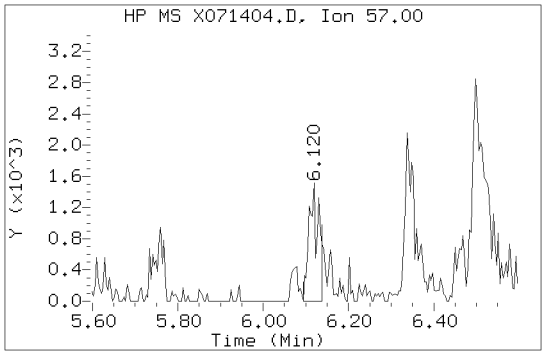
Epichlorohydrin (106-89-8)

Reason Code:

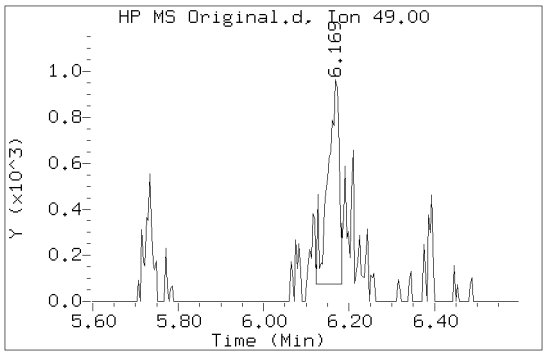
BEFORE
MASS
57
AREA
2383
HEIGHT
1514
20-Jul-2023
15:04
linh
pham



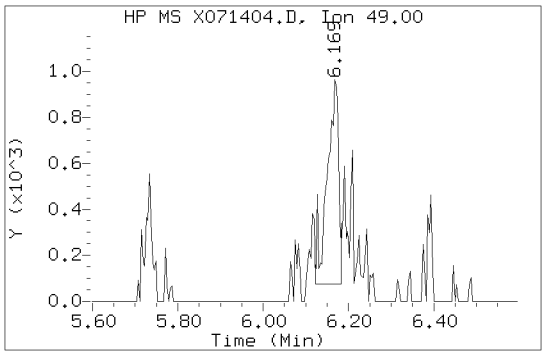
AFTER
MASS
57
AREA
2383
HEIGHT
1514
20-Jul-2023
15:04
linh
pham



BEFORE
MASS
49
AREA
1633
HEIGHT
889
20-Jul-2023
15:04
linh
pham



AFTER
MASS
49
AREA
1633
HEIGHT
889
20-Jul-2023
15:04
linh
pham



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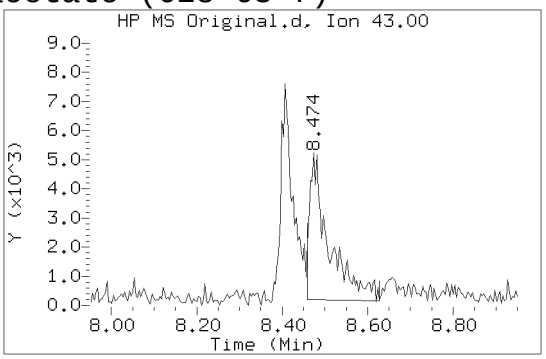
Inj Date : 14-JUL-2023 13:02
InstruID : voa6.i
LabSampID : VSTD001

n-Amyl acetate (628-63-7)

Reason Code:

BEFORE

MASS
43
AREA
15950
HEIGHT
5045
20-Jul-2023
15:04
linh
pham



AFTER

MASS
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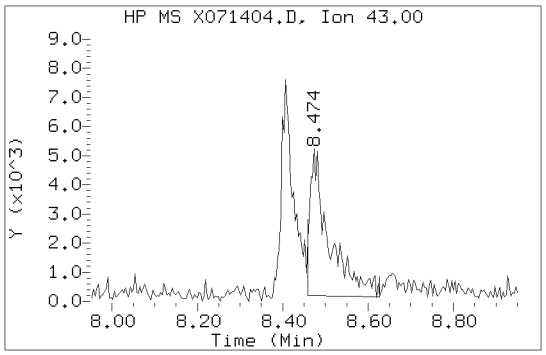
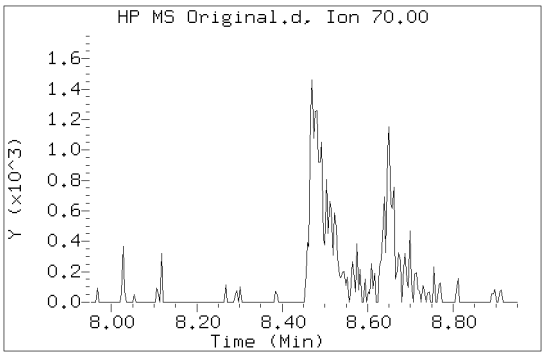
AREA
15950
HEIGHT
5045
20-Jul-2023
15:04
linh
pham



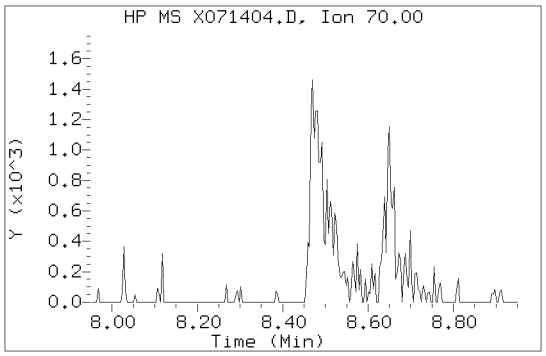
BEFORE

MASS
70
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham



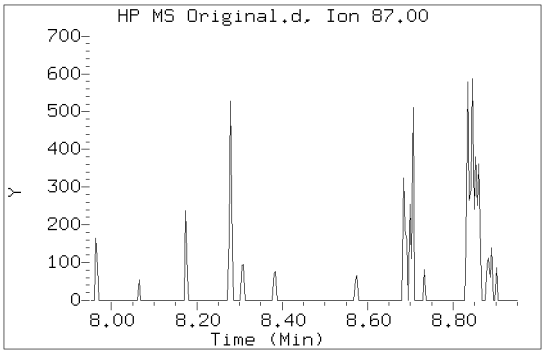
AFTER

MASS
70
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham



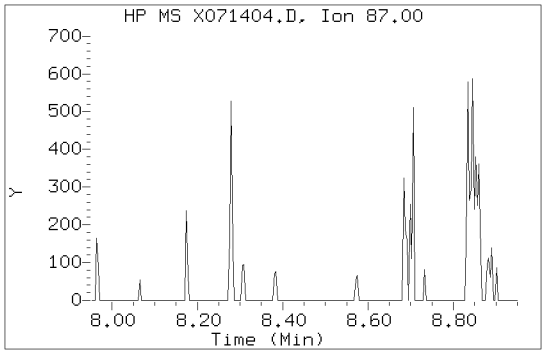
BEFORE

MASS
87
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham



AFTER

MASS
87
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham

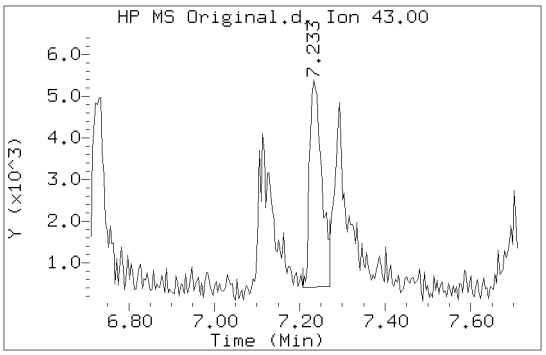


n-Butyl acetate (123-86-4)

Reason Code:

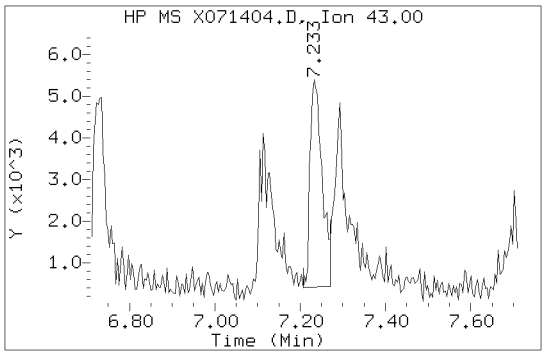
BEFORE

MASS
43
AREA
9795
HEIGHT
4977
20-Jul-2023
15:04
linh
pham



AFTER

MASS
43
AREA
9795
HEIGHT
4977
20-Jul-2023
15:04
linh
pham



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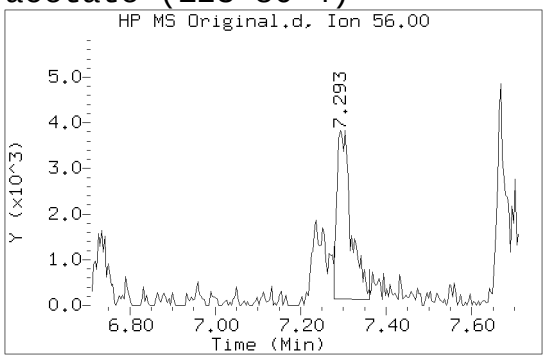
Inj Date : 14-JUL-2023 13:02
InstruID : voa6.i
LabSampID : VSTD001

n-Butyl acetate (123-86-4)

Reason Code:

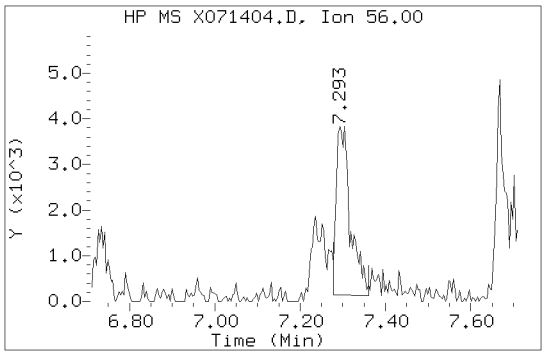
BEFORE

MASS
56
AREA
8623
HEIGHT
3689
20-Jul-2023
15:04
linh
pham



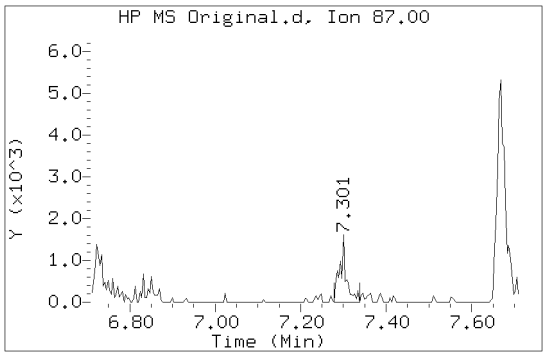
AFTER

MASS
56
AREA
8623
HEIGHT
3689
20-Jul-2023
15:04
linh
pham



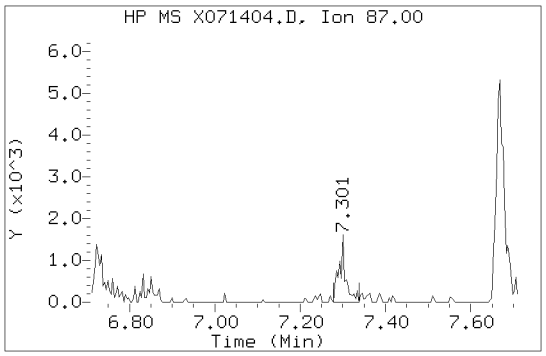
BEFORE

MASS
87
AREA
1682
HEIGHT
1613
20-Jul-2023
15:04
linh
pham



AFTER

MASS
87
AREA
1682
HEIGHT
1613
20-Jul-2023
15:04
linh
pham

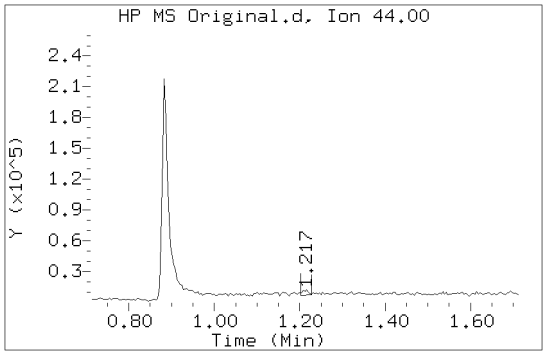


Acetaldehyde (75-07-0)

Reason Code:

BEFORE

MASS
44
AREA
5117
HEIGHT
4908
20-Jul-2023
15:04
linh
pham



AFTER

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AREA
5117
HEIGHT
4908
20-Jul-2023
15:04
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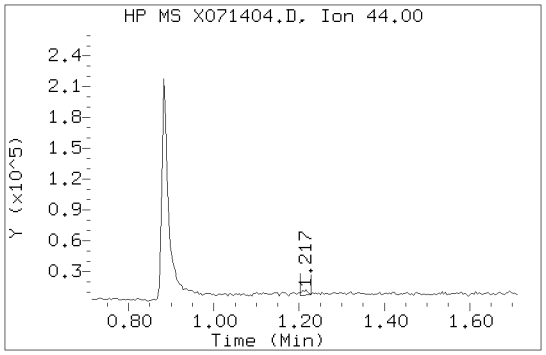

BEFORE

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AREA
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2038
20-Jul-2023
15:04
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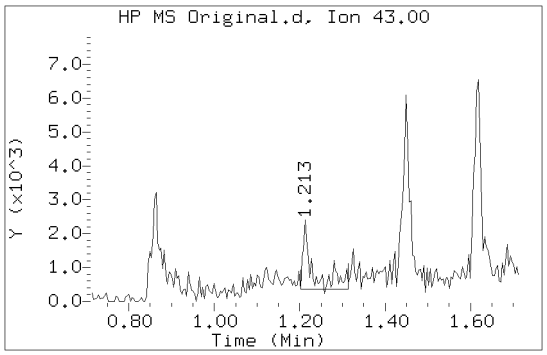
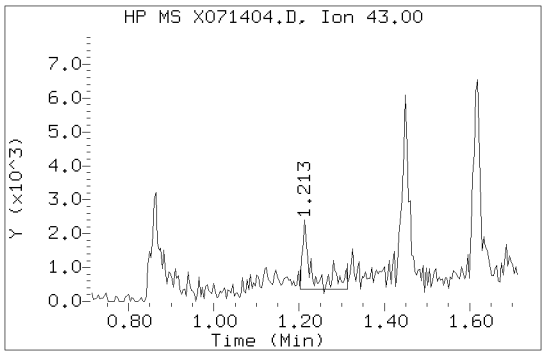


AFTER

MASS
43
AREA
3201
HEIGHT
2038
20-Jul-2023
15:04
linh
pham



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Inj Date : 14-JUL-2023 13:02
InstruID : voa6.i
LabSampID : VSTD001

Acetaldehyde (75-07-0)

Reason Code:

BEFORE

MASS
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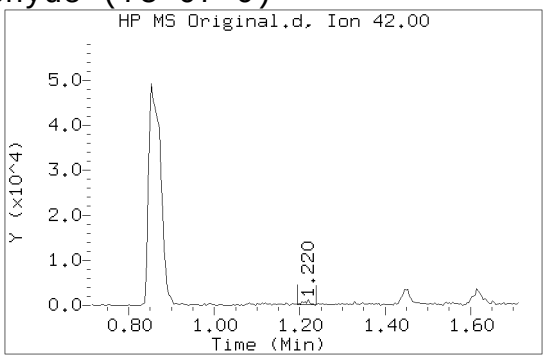
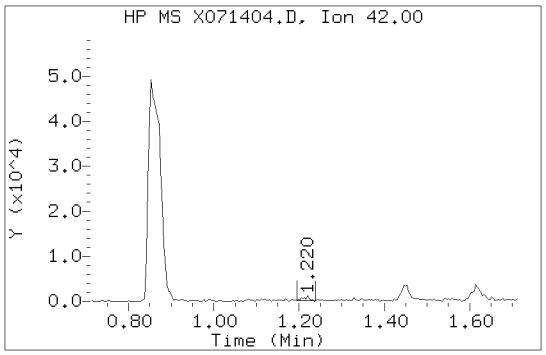
HEIGHT
1152
20-Jul-2023
15:04
linh
pham



AFTER

MASS
42
AREA
1038
HEIGHT
1152
20-Jul-2023
15:04
linh
pham



Isobutylene (115-11-7)

Reason Code:

BEFORE

MASS
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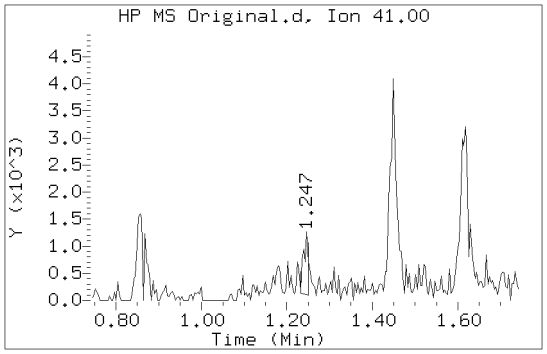
AREA
875
HEIGHT
1172
20-Jul-2023
15:04
linh
pham



AFTER

MASS
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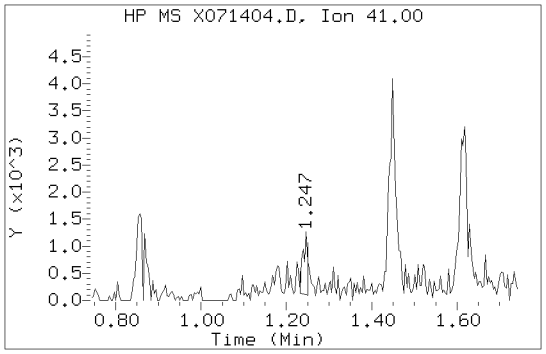
AREA
875
HEIGHT
1172
20-Jul-2023
15:04
linh
pham



BEFORE

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AREA
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HEIGHT
0
20-Jul-2023
15:04
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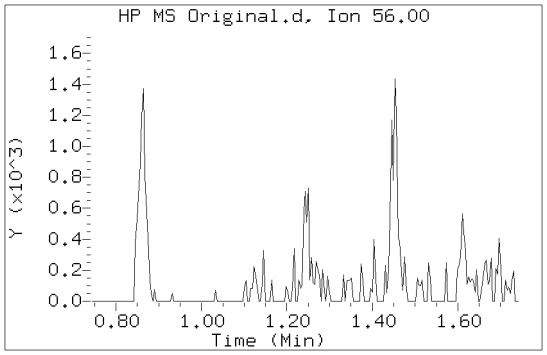
pham



AFTER

MASS
56
AREA
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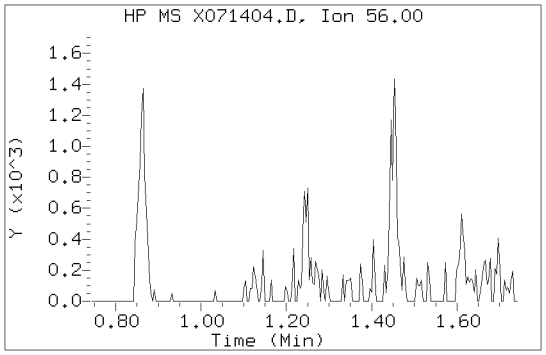
HEIGHT
0
20-Jul-2023
15:04
linh
pham



BEFORE

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AREA
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HEIGHT
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20-Jul-2023
15:04
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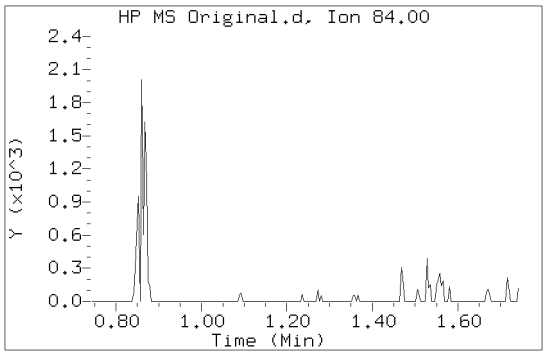

AFTER

MASS
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AREA
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HEIGHT
0
20-Jul-2023
15:04
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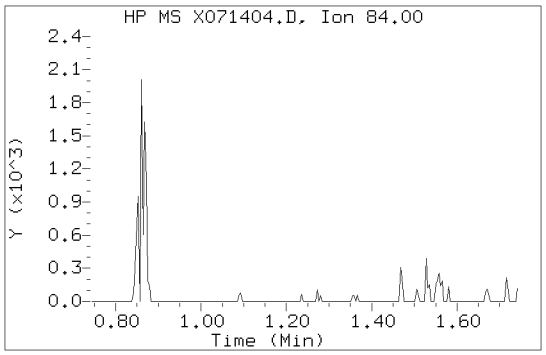
pham



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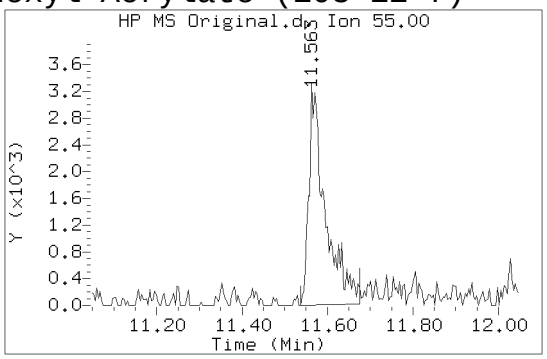
Inj Date : 14-JUL-2023 13:02
InstruID : voa6.i
LabSampID : VSTD001

2-Ethylhexyl Acrylate (103-11-7)

Reason Code:

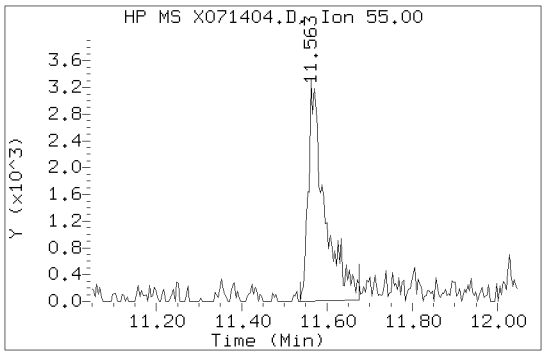
BEFORE

MASS
55
AREA
8780
HEIGHT
3308
20-Jul-2023
15:04
linh
pham



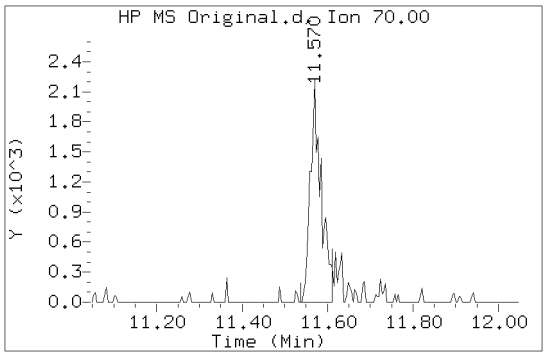
AFTER

MASS
55
AREA
8780
HEIGHT
3308
20-Jul-2023
15:04
linh
pham



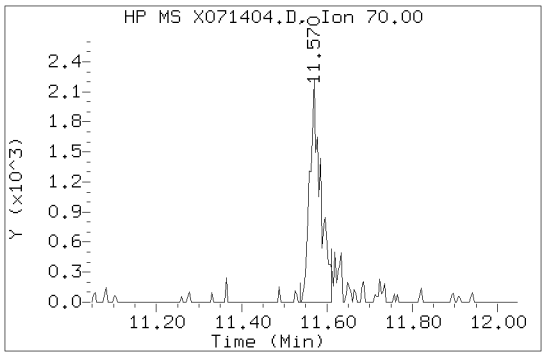
BEFORE

MASS
70
AREA
3926
HEIGHT
2219
20-Jul-2023
15:04
linh
pham



AFTER

MASS
70
AREA
3926
HEIGHT
2219
20-Jul-2023
15:04
linh
pham

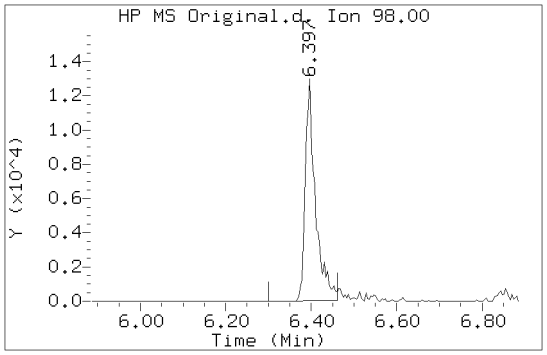


Toluene-d8 (2037-26-5)

Reason Code:

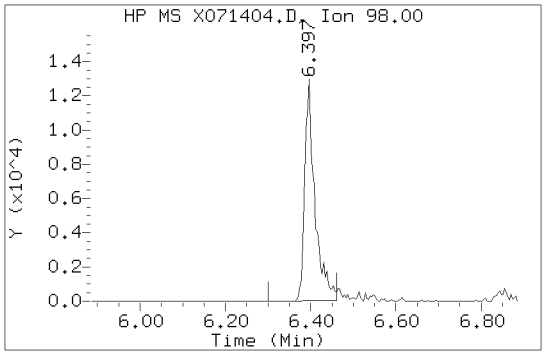
BEFORE

MASS
98
AREA
21847
HEIGHT
12976
20-Jul-2023
15:04
linh
pham



AFTER

MASS
98
AREA
21847
HEIGHT
12976
20-Jul-2023
15:04
linh
pham



BEFORE

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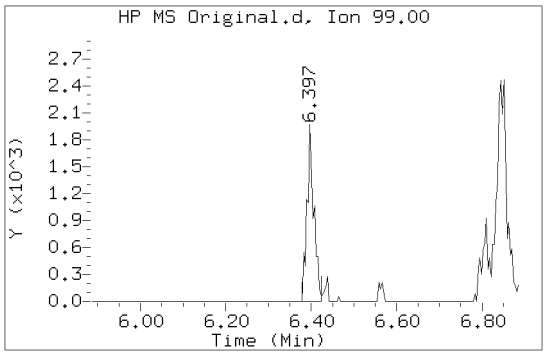
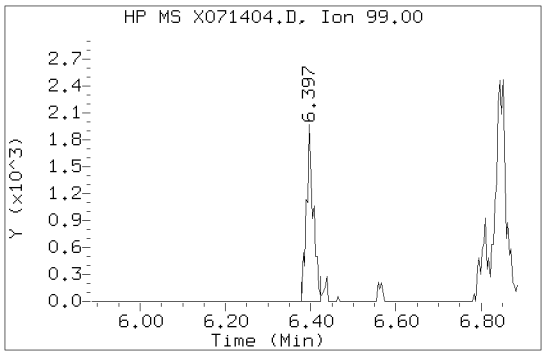
AREA
2184
HEIGHT
1968
20-Jul-2023
15:04
linh
pham



AFTER

MASS
99
AREA
2184
HEIGHT
1968
20-Jul-2023
15:04
linh
pham



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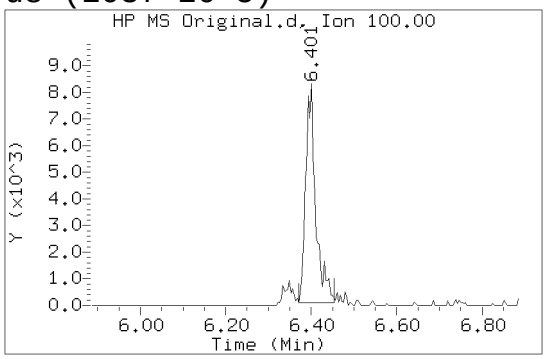
Inj Date : 14-JUL-2023 13:02
InstruID : voa6.i
LabSampID : VSTD001

Toluene-d8 (2037-26-5)

Reason Code:

BEFORE

MASS
100
AREA
13429
HEIGHT
8225
20-Jul-2023
15:04
linh
pham



AFTER

MASS
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15:04
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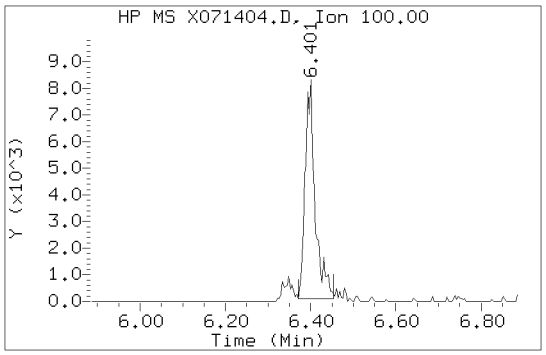

4-Bromofluorobenzene (460-00-4)

Reason Code:

BEFORE

MASS
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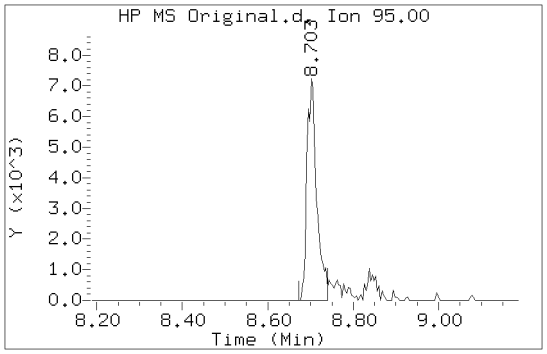
AREA
11517
HEIGHT
7234
20-Jul-2023
15:04
linh
pham



AFTER

MASS
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HEIGHT
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20-Jul-2023
15:04
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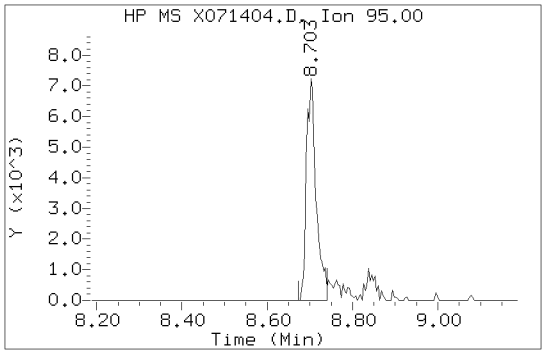

BEFORE

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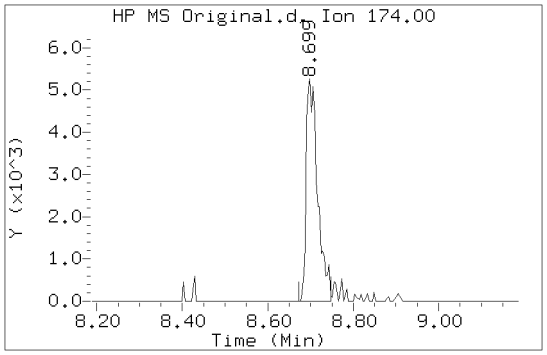
5262
20-Jul-2023
15:04
linh
pham



AFTER

MASS
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AREA
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HEIGHT
5262
20-Jul-2023
15:04
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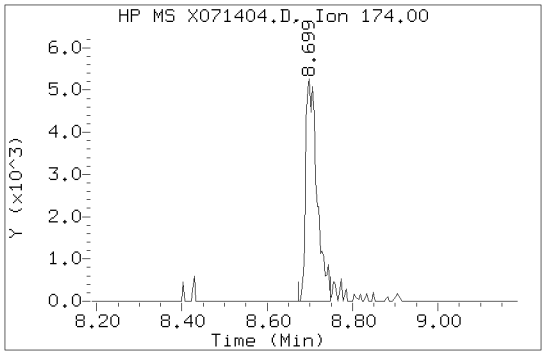
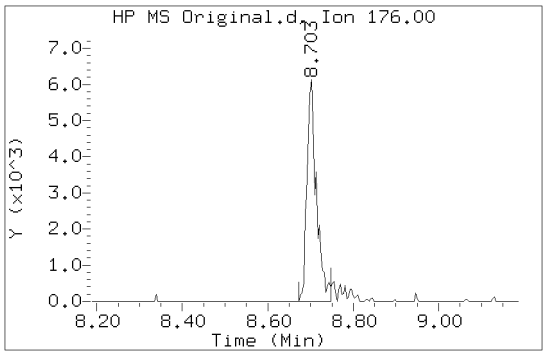
pham



BEFORE

MASS
176
AREA
9576
HEIGHT
6132
20-Jul-2023
15:04
linh
pham



AFTER

MASS
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AREA
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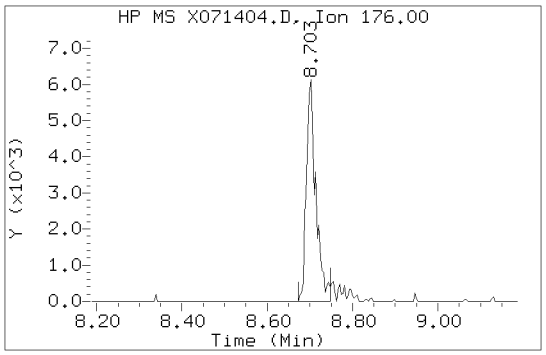
HEIGHT
6132
20-Jul-2023
15:04
linh
pham



ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230714.b\X071405.D
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Inj Date : 14-JUL-2023 13:23
Operator : PC Inst ID: voa6.i
Smp Info : VSTD002;VSTD002;1;4;
Misc Info : V6;WATER;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\voa6.i\X230714.b\8260W.m
Meth Date : 20-Jul-2023 15:05 voa6.i Quant Type: ISTD
Cal Date : 14-JUL-2023 13:02 Cal File: X071404.D
Als bottle: 6 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1 Pentafluorobenzene	168	4.181	4.181	(1.000)	523249	50.0000	
2 Dichlorodifluoromethane	85	0.976	0.976	(0.234)	9210	2.00000	2.77(M)
3 Chloromethane	50	1.085	1.085	(0.260)	17566	2.00000	2.22
4 Propionitrile	54	3.683	3.683	(0.881)	20667	20.0000	19.93(aM)
5 Vinyl Chloride	62	1.145	1.145	(0.274)	15109	2.00000	2.23
6 Bromomethane	94	1.347	1.347	(0.322)	5769	2.00000	2.05(M)
7 Chloroethane	64	1.404	1.404	(0.336)	8482	2.00000	2.19(M)
8 Trichlorofluoromethane	101	1.561	1.561	(0.373)	15419	2.00000	2.24
9 Acrolein	56	1.861	1.861	(0.445)	917	4.00000	5.70(aMH)
10 Acetone	43	1.977	1.977	(0.473)	15631	4.00000	3.03
11 1,1-Dichloroethene	96	1.921	1.921	(0.459)	8527	2.00000	2.22
12 Isobutyl Alcohol	43	4.684	4.684	(1.120)	37832	40.0000	38.14(aM)
13 Acetonitrile	39	2.202	2.202	(0.527)	15528	20.0000	21.16(a)
14 Allyl Chloride	41	2.202	2.202	(0.527)	33926	2.00000	1.97(a)
15 Iodomethane	142	2.030	2.030	(0.485)	11682	4.00000	6.08(M)
16 Acrylonitrile	53	2.547	2.547	(0.609)	10541	4.00000	4.13
17 Methylene Chloride	84	2.303	2.303	(0.551)	11880	2.00000	1.28(M)
18 Methyl tert-butyl ether	73	2.543	2.543	(0.608)	30252	2.00000	2.12
19 Carbon Disulfide	76	2.075	2.075	(0.496)	52986	4.00000	4.39
20 trans-1,2-Dichloroethene	96	2.532	2.532	(0.606)	9515	2.00000	2.14

21 Vinyl Acetate	43	3.004	3.004 (0.719)	75193	4.00000	4.10
22 1,1-Dichloroethane	63	2.922	2.922 (0.699)	21647	2.00000	2.22

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	23 Chloroprene	53	1.771	1.771	(0.424)	4560	2.00000	1.93(aM)
	24 2-Butanone	43	3.672	3.672	(0.878)	10454	4.00000	3.75(M)
	25 Methacrylonitrile	41	3.870	3.870	(0.926)	12946	2.00000	1.91(a)
	26 2,2-Dichloropropane	77	3.514	3.514	(0.840)	15882	2.00000	2.30
	27 cis-1,2-Dichloroethene	96	3.537	3.537	(0.846)	11533	2.00000	2.04(M)
	28 Chloroform	83	3.915	3.915	(0.936)	21885	2.00000	2.19
	29 Bromochloromethane	128	3.799	3.799	(0.909)	7550	2.00000	2.38
$	30 Dibromofluoromethane	113	4.106	4.106	(0.982)	10131	2.00000	1.38
	31 1,1,1-Trichloroethane	97	4.088	4.088	(0.978)	16000	2.00000	2.08
	32 1,1-Dichloropropene	75	4.283	4.283	(0.863)	13616	2.00000	2.05
	33 1,2-Dichloroethane	62	4.564	4.564	(0.919)	16880	2.00000	1.89(M)
	34 Carbon Tetrachloride	117	4.264	4.264	(0.859)	13047	2.00000	1.95(M)
$	35 1,2-Dichloroethane-d4	65	4.477	4.477	(1.071)	14667	2.00000	1.85
*	36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	811220	50.0000	
	37 Benzene	78	4.519	4.519	(0.910)	39692	2.00000	2.04
	38 Trichloroethene	130	5.208	5.208	(1.049)	12354	2.00000	2.25(a)
	39 Bromodichloromethane	83	5.733	5.733	(1.155)	14668	2.00000	1.97(a)
	40 Methyl Methacrylate	41	5.625	5.625	(1.345)	12770	2.00000	2.02(aM)
	41 2-Chloroethylvinyl ether	63	6.059	6.059	(1.220)	8400	4.00000	3.70(a)
	42 1,2-Dichloropropane	63	5.441	5.441	(1.096)	12678	2.00000	2.03(aM)
	43 2-Nitropropane	43	5.973	5.973	(1.428)	4635	2.00000	2.22(a)
	44 Dibromomethane	93	5.557	5.557	(1.119)	7713	2.00000	2.18(a)
	45 4-Methyl-2-Pentanone	43	6.333	6.333	(0.826)	29112	4.00000	3.99(a)
	46 cis-1,3-Dichloropropene	75	6.164	6.164	(1.242)	17329	2.00000	2.02(a)
*	47 Chlorobenzene-d5	117	7.668	7.668	(1.000)	740616	50.0000	
$	48 Toluene-d8	98	6.389	6.389	(0.833)	41058	2.00000	2.15(aM)
	49 Ethyl Methacrylate	69	6.723	6.723	(1.354)	11361	2.00000	2.13(a)
	50 Toluene	91	6.449	6.449	(0.841)	40789	2.00000	2.04(a)
	51 trans-1,3-Dichloropropene	75	6.689	6.689	(1.347)	14549	2.00000	2.02(a)
	52 2-Hexanone	43	7.105	7.105	(0.927)	19503	4.00000	4.07(a)
	53 1,1,2-Trichloroethane	83	6.843	6.843	(0.892)	9040	2.00000	2.13(a)
	54 1,3-Dichloropropane	76	6.985	6.985	(0.911)	17344	2.00000	2.00(a)
	55 Dibromochloromethane	129	7.180	7.180	(0.936)	12160	2.00000	1.99(a)
	56 Tetrachloroethene	164	6.929	6.929	(0.904)	9711	2.00000	2.35(aM)
	57 1,2-Dibromoethane	107	7.263	7.263	(0.947)	9815	2.00000	2.03(a)
	58 1-Chlorohexane	55	7.694	7.694	(1.550)	14217	2.00000	2.18(a)
	59 Chlorobenzene	112	7.694	7.694	(1.003)	28612	2.00000	2.05(a)
	60 1,1,1,2-Tetrachloroethane	131	7.773	7.773	(1.014)	10835	2.00000	1.98(a)
	61 Ethylbenzene	106	7.799	7.799	(1.017)	14708	2.00000	2.10(a)
	62 m,p-Xylenes	106	7.904	7.904	(1.031)	39231	4.00000	4.47(a)
	63 o-Xylene	106	8.245	8.245	(1.075)	17205	2.00000	2.07(a)
	64 Styrene	104	8.275	8.275	(1.079)	28504	2.00000	1.96(a)
	66 Bromoform	173	8.414	8.414	(1.097)	8672	2.00000	2.21(Ta)
	67 Isopropylbenzene	105	8.560	8.560	(1.116)	48187	2.00000	2.25(a)
	68 1,1,2,2-Tetrachloroethane	83	8.841	8.841	(0.915)	14352	2.00000	2.16(aM)
$	69 4-Bromofluorobenzene	95	8.695	8.695	(1.134)	17835	2.00000	2.01(a)
*	70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	394737	50.0000	
	71 1,2,3-Trichloropropane	75	8.863	8.863	(0.917)	10578	2.00000	2.01(aM)
	72 trans-1,4-Dichloro-2-butene	53	8.901	8.901	(1.161)	4279	2.00000	1.89(aM)
	73 n-Propylbenzene	91	8.916	8.916	(0.923)	50047	2.00000	2.09(a)
	74 Bromobenzene	156	8.815	8.815	(0.912)	12961	2.00000	2.09(a)
	75 1,3,5-Trimethylbenzene	105	9.070	9.070	(0.939)	37798	2.00000	2.11(a)

76	2-Chlorotoluene	91	8.980	8.980 (0.929)	34081	2.00000	2.11(a)
77	4-Chlorotoluene	91	9.077	9.077 (0.939)	37510	2.00000	2.12(a)

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230714.b\X071405.D Page 3
Report Date: 20-Jul-2023 15:05

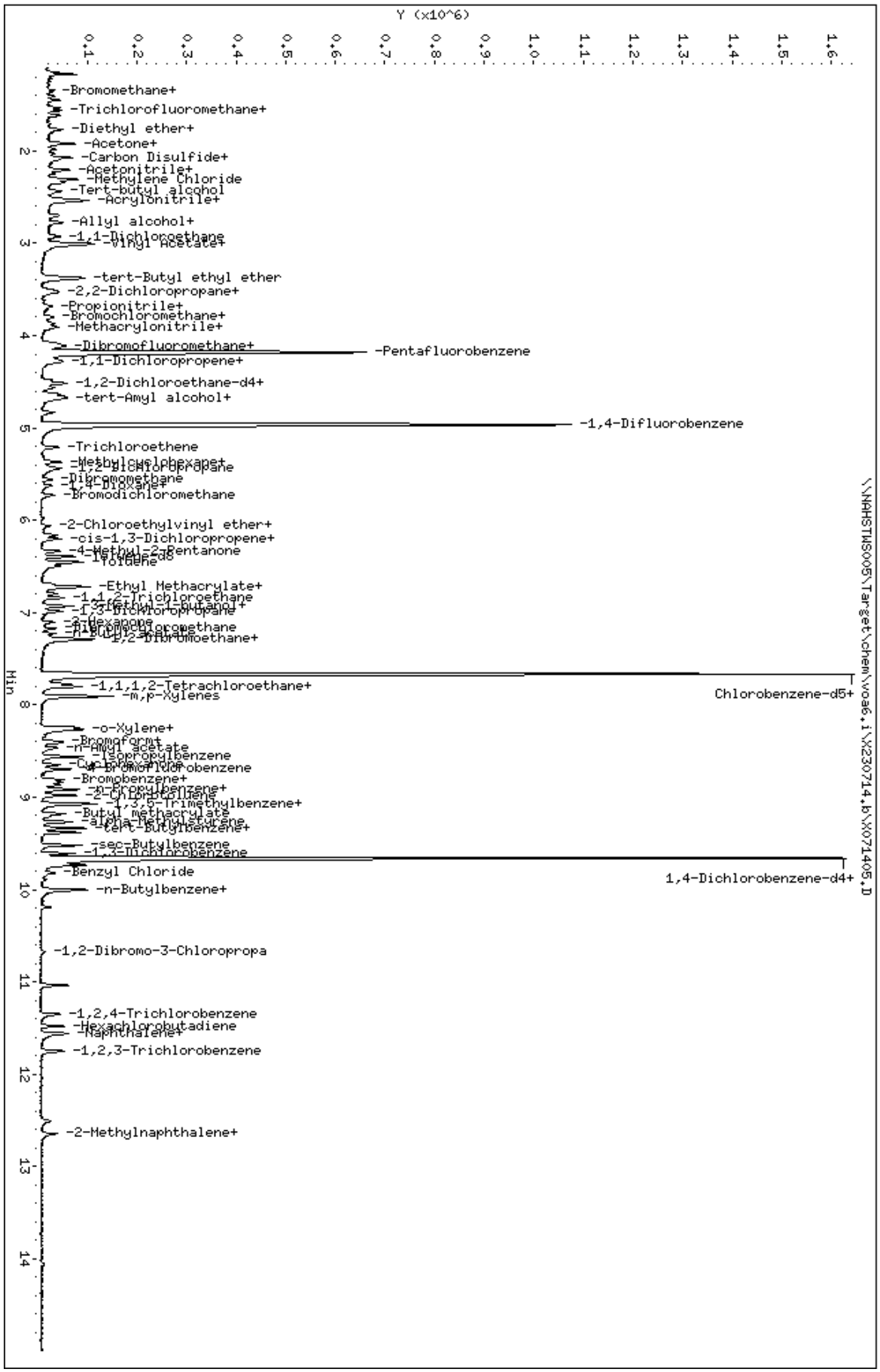
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
78	tert-Butylbenzene	119	9.336	9.336	(0.966)	34859	2.00000	2.27(a)
79	1,2,4-Trimethylbenzene	105	9.381	9.381	(0.971)	38346	2.00000	2.13(a)
81	sec-Butylbenzene	105	9.519	9.519	(0.985)	45694	2.00000	2.23(a)
82	p-Isopropyltoluene	119	9.647	9.647	(0.998)	39231	2.00000	2.10(a)
83	1,3-Dichlorobenzene	146	9.609	9.609	(0.995)	22178	2.00000	2.06(a)
84	1,4-Dichlorobenzene	146	9.681	9.681	(1.002)	26773	2.00000	2.27(a)
86	Benzyl Chloride	91	9.823	9.823	(1.281)	17851	2.00000	3.69(aM)
87	n-Butylbenzene	91	10.003	10.003	(1.035)	31075	2.00000	1.98(a)
88	1,2-Dichlorobenzene	146	9.999	9.999	(1.035)	21840	2.00000	2.06(a)
89	1,2-Dibromo-3-Chloropropane	155	10.678	10.678	(1.105)	1953	2.00000	2.84(a)
90	1,2,4-Trichlorobenzene	180	11.360	11.360	(1.176)	14997	2.00000	2.06(a)
91	Hexachlorobutadiene	225	11.476	11.476	(1.188)	6844	2.00000	4.30(aM)
92	Naphthalene	128	11.559	11.559	(1.196)	35806	2.00000	1.99(aM)
93	1,2,3-Trichlorobenzene	180	11.742	11.742	(1.215)	14737	2.00000	2.16(a)
146	Methyl acetate	43	2.247	2.247	(0.537)	9491	2.00000	2.03(aM)
138	Freon TF	101	1.917	1.917	(0.459)	7195	2.00000	1.83(aM)
141	Cyclohexane	56	4.121	4.121	(0.986)	19462	2.00000	2.14(aH)
142	Tetrahydrofuran	42	3.866	3.866	(0.925)	5657	4.00000	4.20(a)
147	Methylcyclohexane	55	5.370	5.370	(1.082)	31142	2.00000	1.81(aM)
135	1,4-Dioxane	88	5.617	5.617	(1.343)	2323	40.0000	37.36(M)
132	n-Butanol	56	5.362	5.362	(1.282)	7443	40.0000	42.73(aM)
131	Methyl Acrylate	55	3.743	3.743	(0.895)	13406	2.00000	1.88(aM)
133	Ethyl Acrylate	55	5.370	5.370	(1.284)	31450	2.00000	1.81(M)
136	n-Hexane	57	2.768	2.768	(0.662)	11984	2.00000	1.88(aM)
139	Diethyl ether	59	1.760	1.760	(0.421)	10716	2.00000	2.19(a)
148	Tert-butyl alcohol	59	2.442	2.442	(0.584)	29280	40.0000	44.33(M)
149	Isopropyl alcohol	45	2.097	2.097	(0.502)	17366	40.0000	42.37(T)
156	Diisopropyl ether	45	3.008	3.008	(0.719)	43282	2.00000	2.00(Ta)
166	1,2,3-Trimethylbenzene	105	9.733	9.733	(1.007)	31731	2.00000	1.73(a)
167	Ethanol	45	1.711	1.711	(0.409)	3219	40.0000	26.14(M)
172	tert-Butyl formate	59	4.635	4.635	(1.108)	23857	4.00000	4.26(aM)
173	3,3-Dimethyl-1-butanol	57	7.293	7.293	(0.951)	33143	40.0000	41.61
174	tert-Amyl methyl ether	73	4.672	4.672	(1.117)	31345	2.00000	1.82(aM)
175	tert-Butyl ethyl ether	59	3.383	3.383	(0.809)	42907	2.00000	1.93(a)
176	tert-Amyl alcohol	59	4.635	4.635	(1.108)	29185	40.0000	51.05
151	4-Methyl-2-pentanol	45	6.723	6.723	(1.354)	72210	40.0000	41.53(M)
180	1-Methylnaphthalene	142	12.649	12.649	(1.309)	14828	2.00000	(a)
140	1,3-Butadiene	54	1.167	1.167	(0.279)	15351	2.00000	2.28(aM)
152	Amyl alcohol	42	6.933	6.933	(0.904)	8579	40.0000	40.28(M)
158	Dichlorofluoromethane	67	1.535	1.535	(0.367)	17587	2.00000	2.08
159	Propylene oxide	43	1.805	1.805	(0.432)	2798	4.00000	4.35(a)
161	3-Methyl-1-butanol	55	6.929	6.929	(0.904)	5263	40.0000	28.86
162	Butyl acrylate	55	8.267	8.267	(1.078)	25518	2.00000	1.81(a)
163	Butyl methacrylate	41	9.178	9.178	(0.950)	19072	2.00000	2.01(a)
164	Dicyclopentadiene	66	9.681	9.681	(1.002)	44874	2.00000	1.97(a)
182	Epichlorohydrin	57	6.112	6.112	(1.231)	4808	8.00000	7.93
M 94	1,2-Dichloroethylene (total)	96				21048	4.00000	(a)
130	Ethyl Acetate	43	3.683	3.683	(0.881)	15481	2.00000	1.99(TaM)
134	Cyclohexanone	55	8.646	8.646	(0.895)	15113	40.0000	43.00(a)
185	Isoprene	39	1.771	1.771	(0.424)	3408	2.00000	1.97(aM)
188	Isopropyl acetate	43	4.684	4.684	(0.943)	48167	2.00000	2.25(a)
187	n-Amyl acetate	43	8.462	8.462	(1.104)	26886	2.00000	1.98(aM)

189 n-Butyl acetate	43	7.225	7.225 (0.942)	20825	2.00000	1.83(aM)
150 Allyl alcohol	57	2.768	2.768 (0.662)	14314	40.0000	46.26

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
194 Acetaldehyde	44	1.212	1.212	(0.290)	8114	8.00000	(aM)
195 Methyl Amyl Ketone	43	8.391	8.391	(1.094)	28766	2.00000	1.85(a)
200 Dimethyl Disulfide	94	6.202	6.202	(0.809)	17864	2.00000	1.78(a)
202 Isobutylene	41	1.246	1.246	(0.298)	1654	2.00000	1.91(aM)
205 2-Ethylhexyl Acrylate	55	11.559	11.559	(1.196)	18101	2.00000	1.79(aM)

QC Flag Legend

T - Target compound detected outside RT window.
a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.



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Sample Info: VSTD002;VSTD002;1;4;
Purge Volume: 5.0
Column phase: DB624

Instrument: voa6,i
Operator: PC
Column diameter: 0.18

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Inj Date : 14-JUL-2023 13:23
InstruID : voa6.i
LabSampID : VSTD002

Dichlorodifluoromethane (75-71-8)

Reason Code:

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20-Jul-2023
15:04
linh
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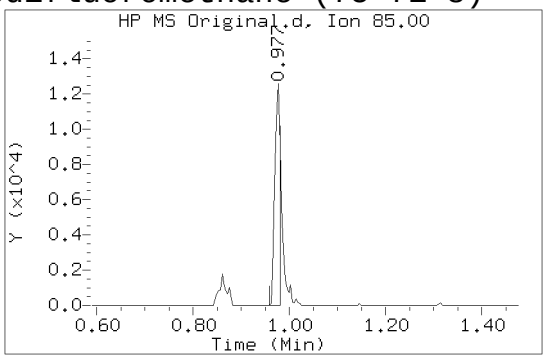

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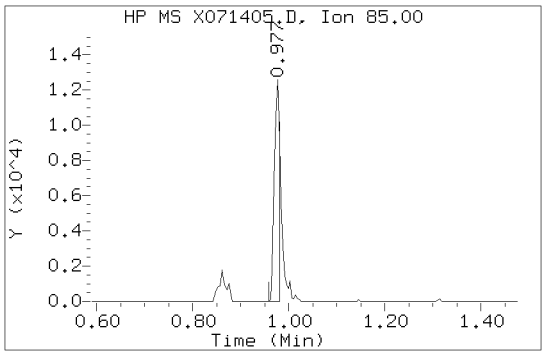

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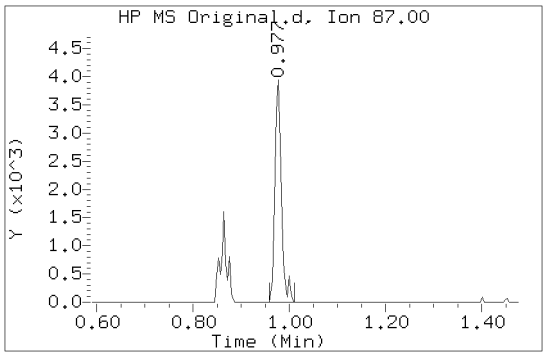

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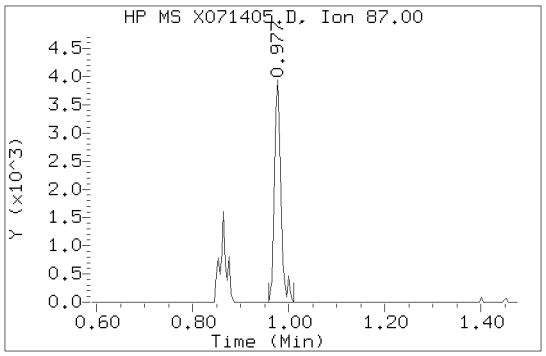

Bromomethane (74-83-9)

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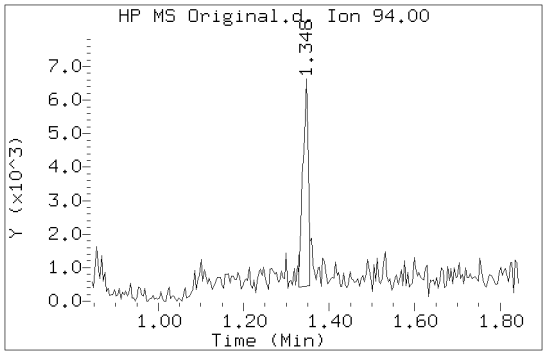

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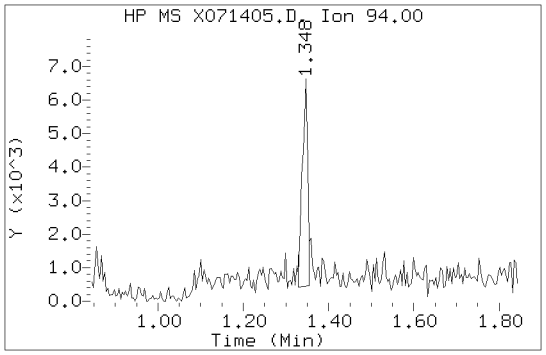

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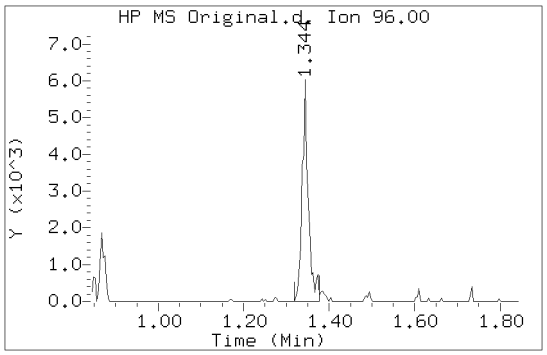

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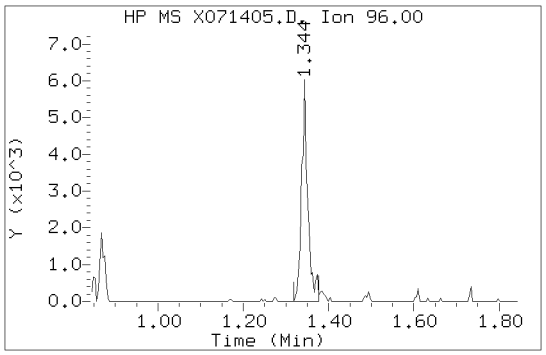

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InstruID : voa6.i
LabSampID : VSTD002

Chloroethane (75-00-3)

Reason Code:

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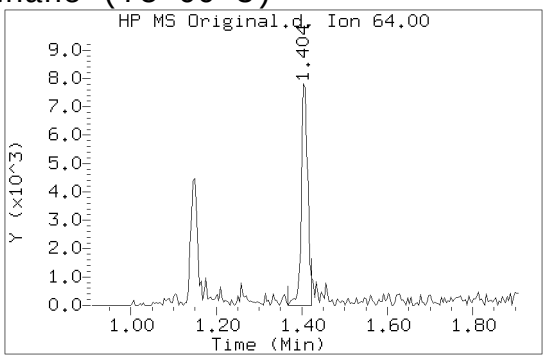

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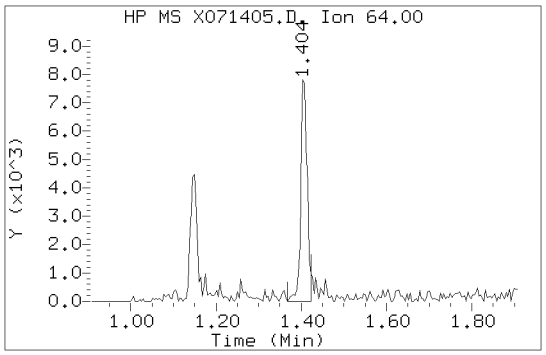

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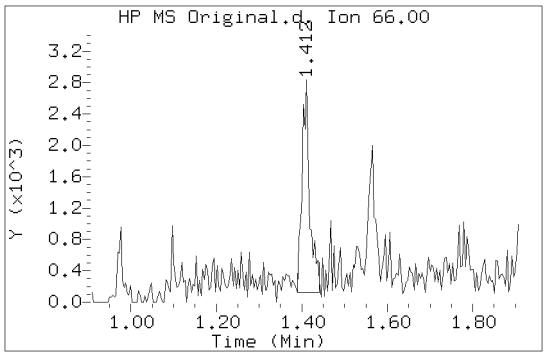

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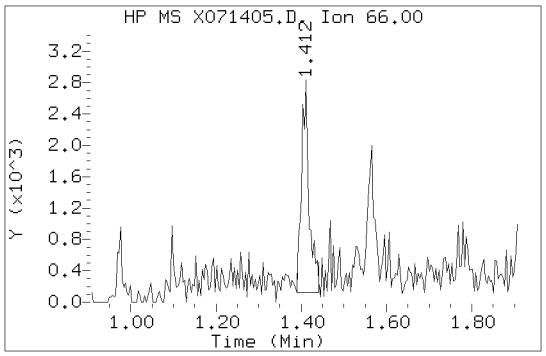

Iodomethane (74-88-4)

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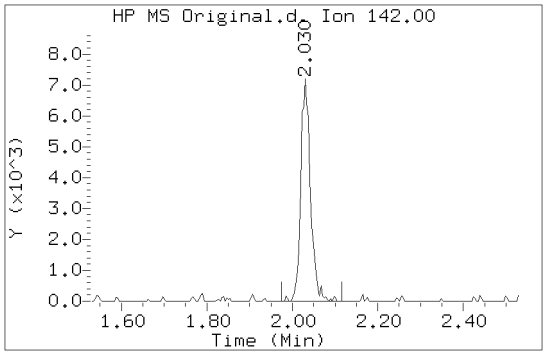

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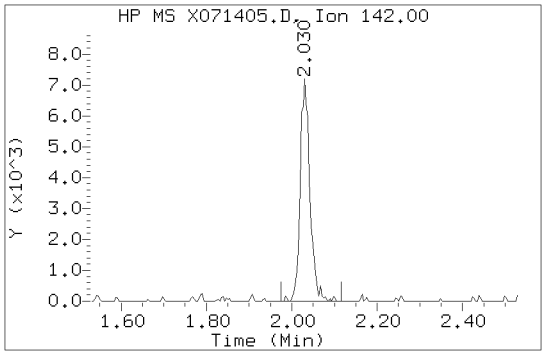

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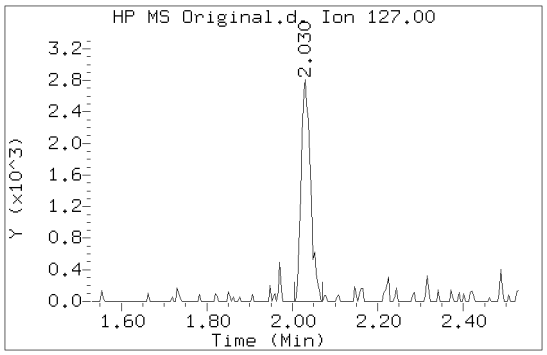

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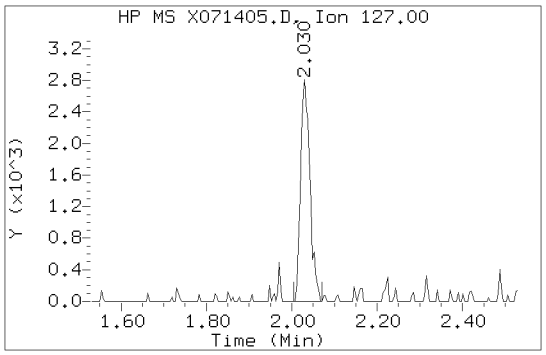

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LabSampID : VSTD002

Iodomethane (74-88-4)

Reason Code:

BEFORE
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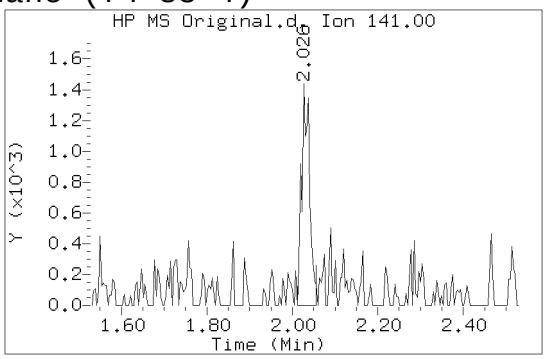

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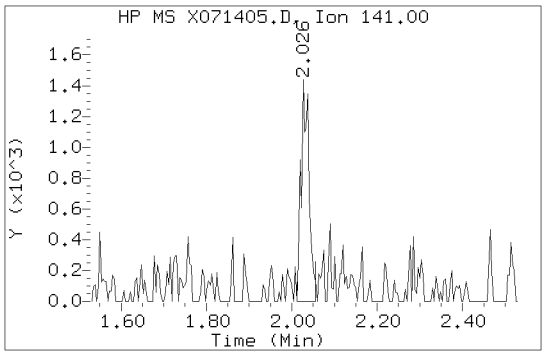

Methylene Chloride (75-09-2)

Reason Code:

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20-Jul-2023
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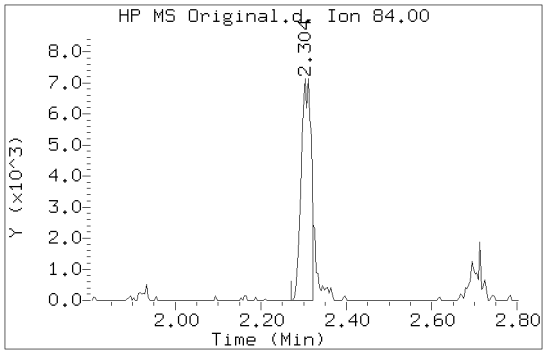

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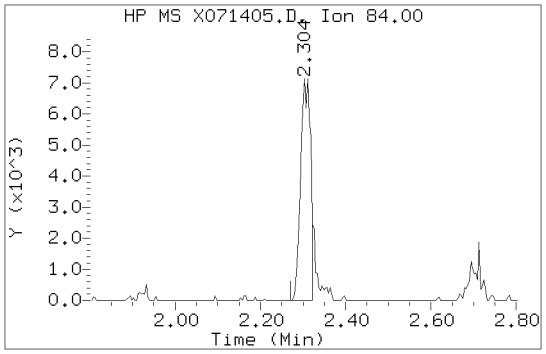

BEFORE
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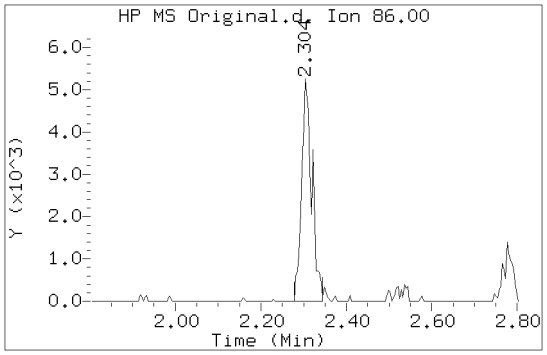

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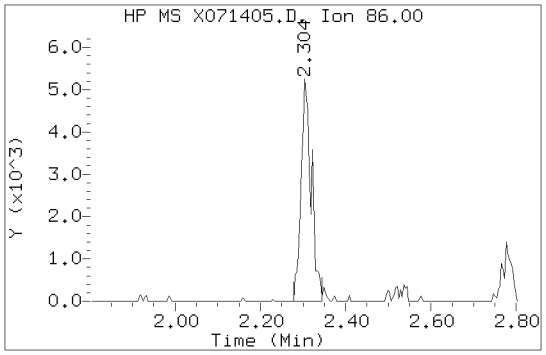

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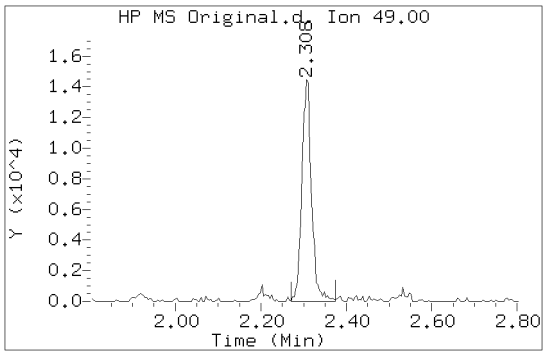
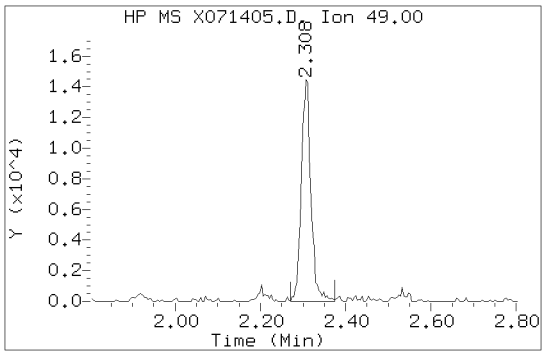
linh
pham



AFTER
MASS
49
AREA
23277
HEIGHT
14471
20-Jul-2023
15:04
linh
pham



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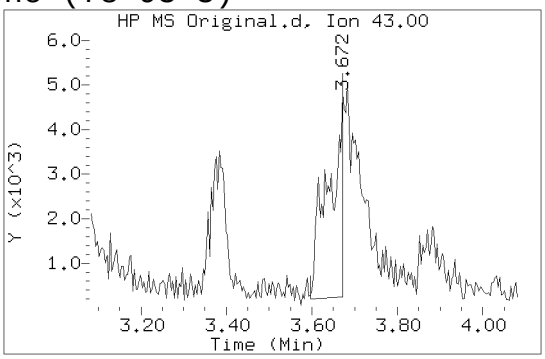
Inj Date : 14-JUL-2023 13:23
InstruID : voa6.i
LabSampID : VSTD002

2-Butanone (78-93-3)

Reason Code:

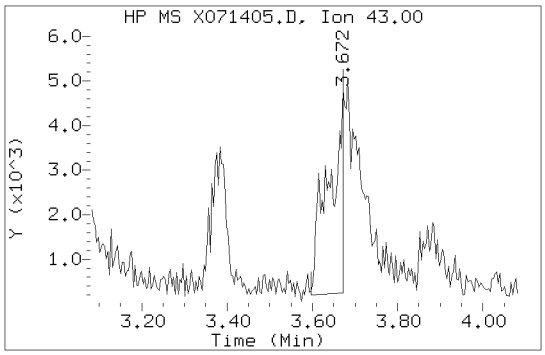
BEFORE

MASS
43
AREA
10454
HEIGHT
4589
20-Jul-2023
15:04
linh
pham



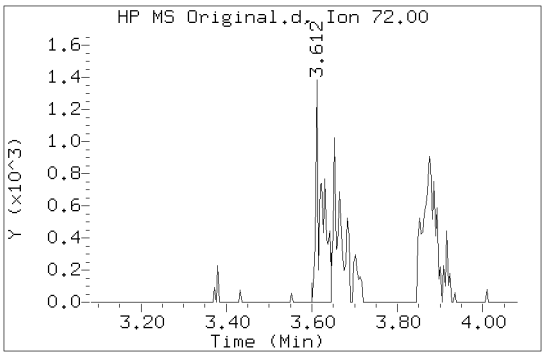
AFTER

MASS
43
AREA
10454
HEIGHT
4589
20-Jul-2023
15:04
linh
pham



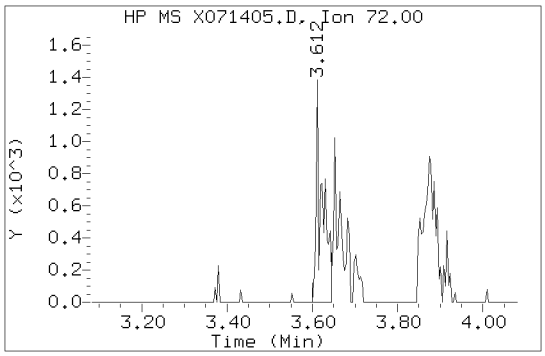
BEFORE

MASS
72
AREA
1388
HEIGHT
1384
20-Jul-2023
15:04
linh
pham



AFTER

MASS
72
AREA
1388
HEIGHT
1384
20-Jul-2023
15:04
linh
pham

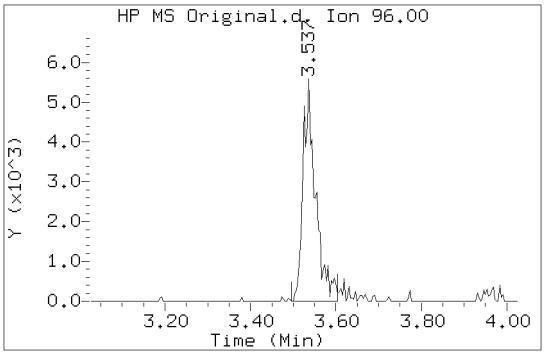


cis-1,2-Dichloroethene (156-59-2)

Reason Code:

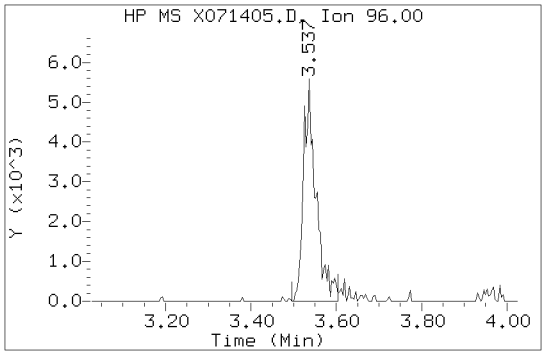
BEFORE

MASS
96
AREA
11533
HEIGHT
5587
20-Jul-2023
15:04
linh
pham



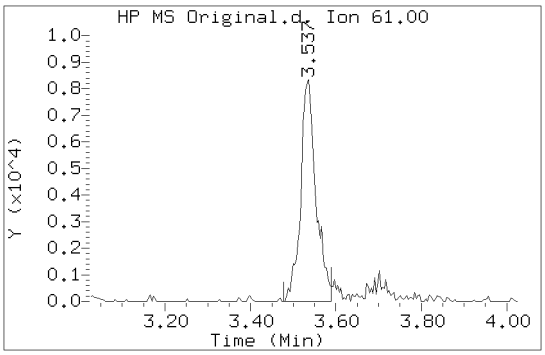
AFTER

MASS
96
AREA
11533
HEIGHT
5587
20-Jul-2023
15:04
linh
pham



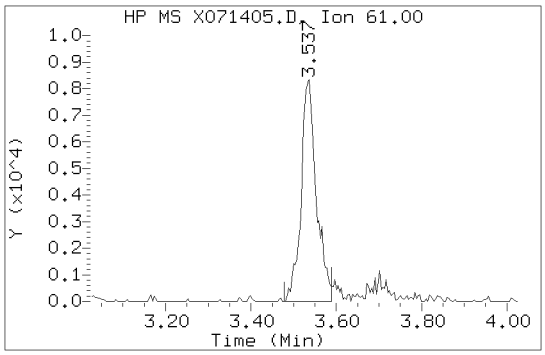
BEFORE

MASS
61
AREA
21081
HEIGHT
8339
20-Jul-2023
15:04
linh
pham



AFTER

MASS
61
AREA
21081
HEIGHT
8339
20-Jul-2023
15:04
linh
pham



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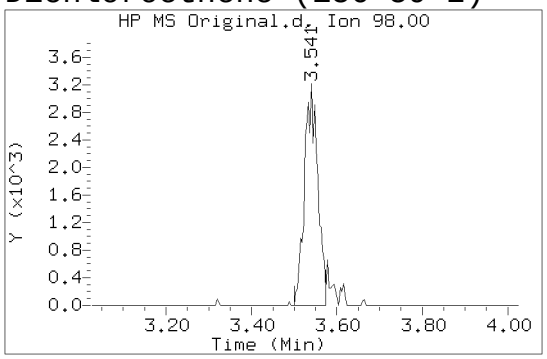
Inj Date : 14-JUL-2023 13:23
InstruID : voa6.i
LabSampID : VSTD002

cis-1,2-Dichloroethene (156-59-2)

Reason Code:

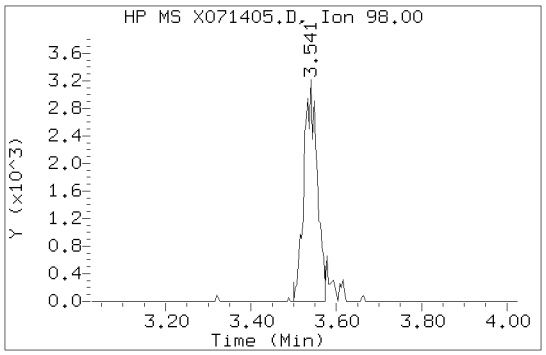
BEFORE

MASS
98
AREA
6988
HEIGHT
3216
20-Jul-2023
15:04
linh
pham



AFTER

MASS
98
AREA
6988
HEIGHT
3216
20-Jul-2023
15:04
linh
pham

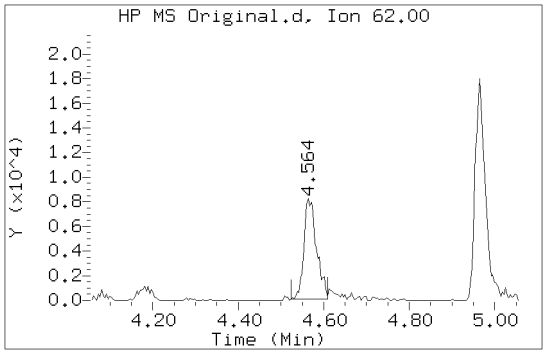


1,2-Dichloroethane (107-06-2)

Reason Code:

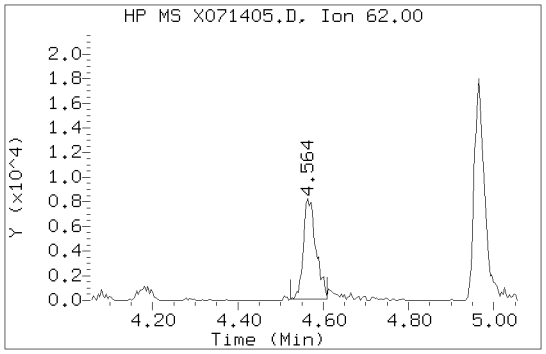
BEFORE

MASS
62
AREA
16880
HEIGHT
8150
20-Jul-2023
15:04
linh
pham



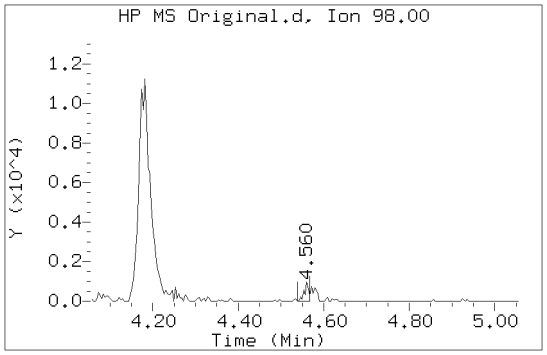
AFTER

MASS
62
AREA
16880
HEIGHT
8150
20-Jul-2023
15:04
linh
pham



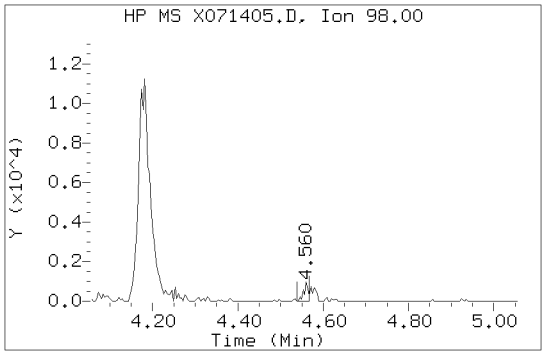
BEFORE

MASS
98
AREA
708
HEIGHT
981
20-Jul-2023
15:04
linh
pham



AFTER

MASS
98
AREA
708
HEIGHT
981
20-Jul-2023
15:04
linh
pham

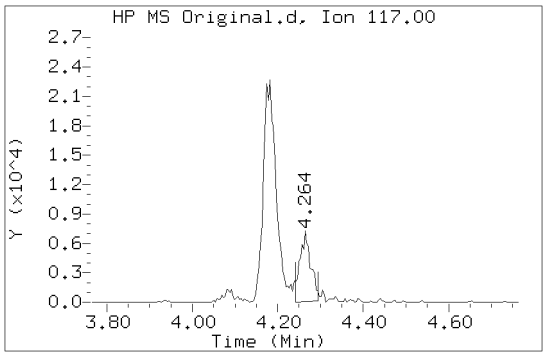


Carbon Tetrachloride (56-23-5)

Reason Code:

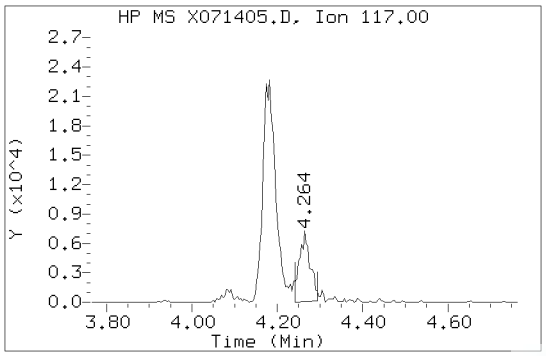
BEFORE

MASS
117
AREA
13047
HEIGHT
7258
20-Jul-2023
15:04
linh
pham



AFTER

MASS
117
AREA
13047
HEIGHT
7258
20-Jul-2023
15:04
linh
pham



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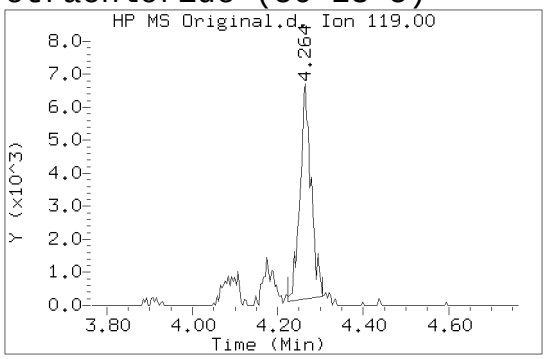
Inj Date : 14-JUL-2023 13:23
InstruID : voa6.i
LabSampID : VSTD002

Carbon Tetrachloride (56-23-5)

Reason Code:

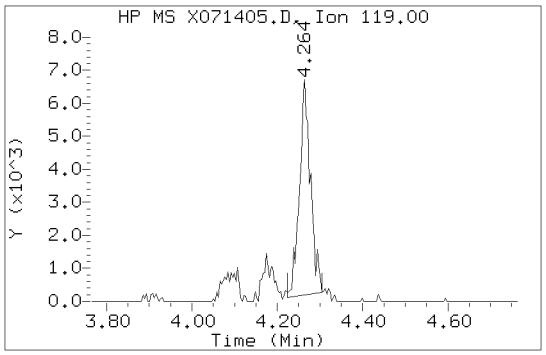
BEFORE

MASS
119
AREA
11949
HEIGHT
6520
20-Jul-2023
15:04
linh
pham



AFTER

MASS
119
AREA
11949
HEIGHT
6520
20-Jul-2023
15:04
linh
pham

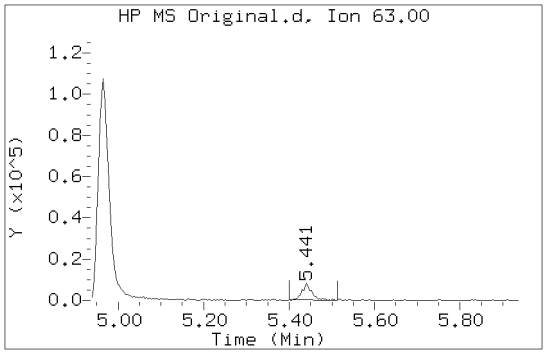


1,2-Dichloropropane (78-87-5)

Reason Code:

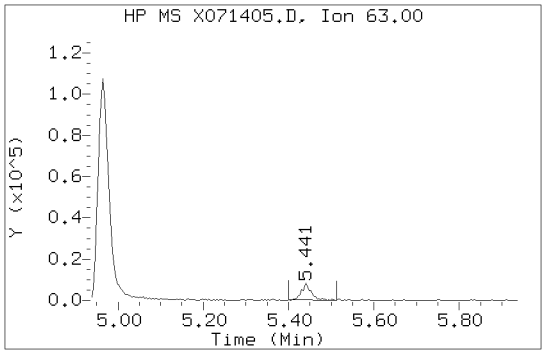
BEFORE

MASS
63
AREA
12678
HEIGHT
8183
20-Jul-2023
15:04
linh
pham



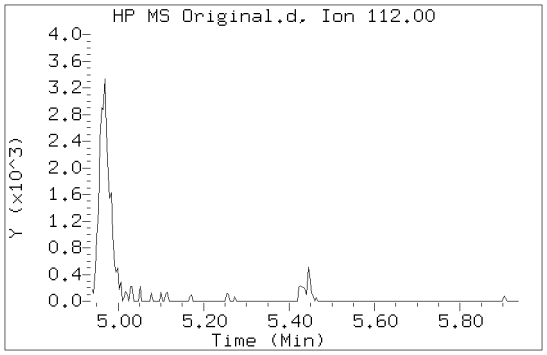
AFTER

MASS
63
AREA
12678
HEIGHT
8183
20-Jul-2023
15:04
linh
pham



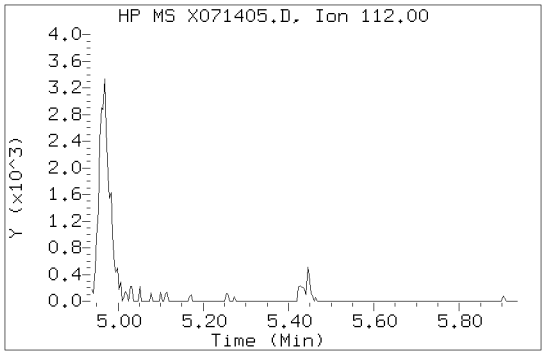
BEFORE

MASS
112
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham



AFTER

MASS
112
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham

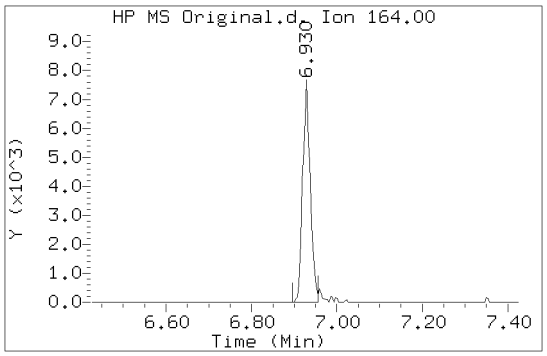


Tetrachloroethene (127-18-4)

Reason Code:

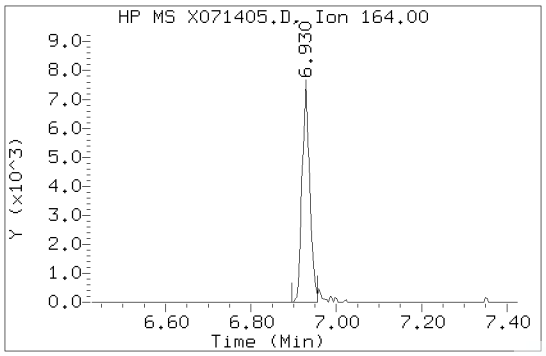
BEFORE

MASS
164
AREA
9711
HEIGHT
7674
20-Jul-2023
15:04
linh
pham



AFTER

MASS
164
AREA
9711
HEIGHT
7674
20-Jul-2023
15:04
linh
pham

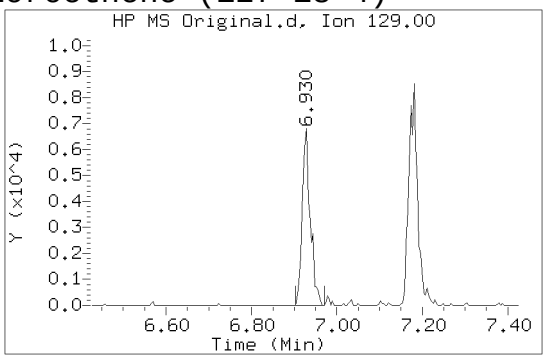


Data File : \\NAHSTWS005\Target\chem\voa6.i\X230714.b\X071405.D
Inj Date : 14-JUL-2023 13:23
InstruID : voa6.i
LabSampID : VSTD002

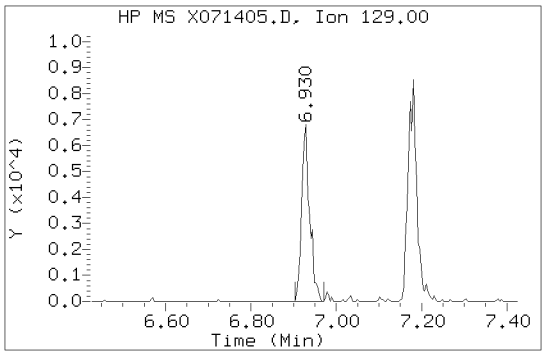
Tetrachloroethene (127-18-4)

Reason Code:

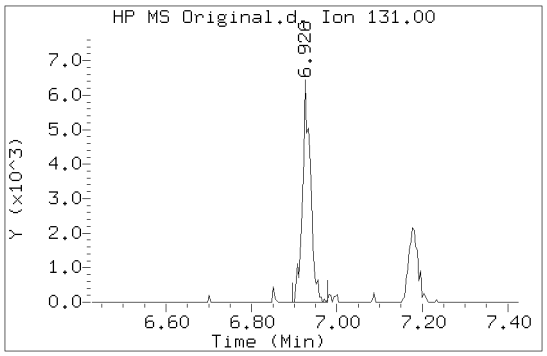
BEFORE
MASS
129
AREA
9180
HEIGHT
6806
20-Jul-2023
15:04
linh
pham



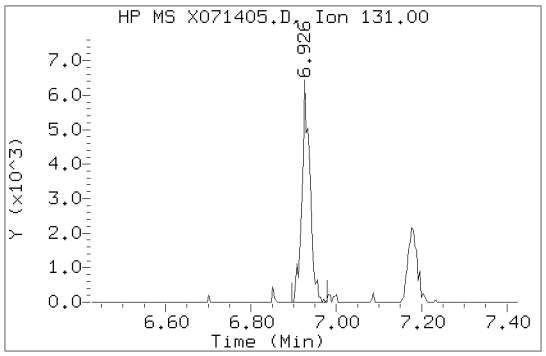
AFTER
MASS
129
AREA
9180
HEIGHT
6806
20-Jul-2023
15:04
linh
pham



BEFORE
MASS
131
AREA
8692
HEIGHT
6442
20-Jul-2023
15:04
linh
pham



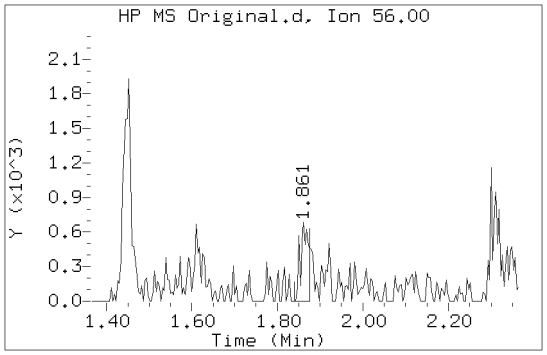
AFTER
MASS
131
AREA
8692
HEIGHT
6442
20-Jul-2023
15:04
linh
pham



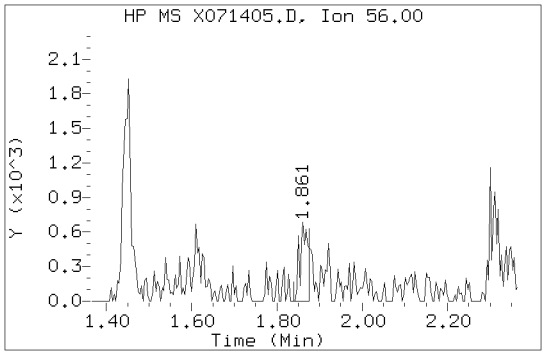
Acrolein (107-02-8)

Reason Code:

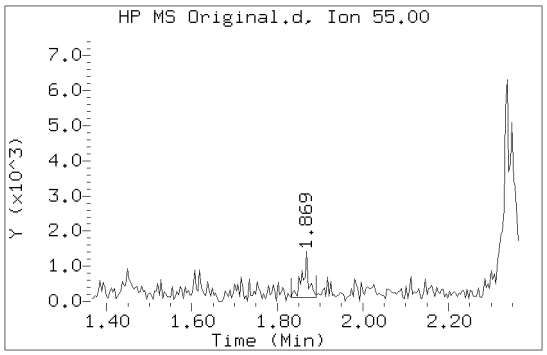
BEFORE
MASS
56
AREA
917
HEIGHT
685
20-Jul-2023
15:04
linh
pham



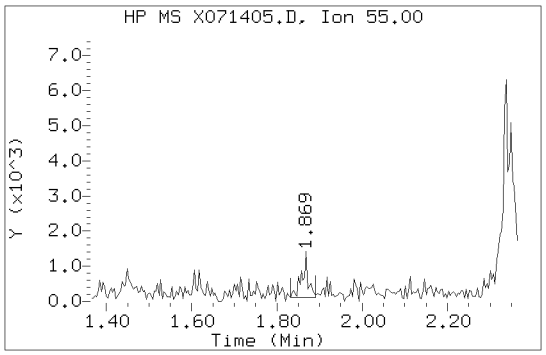
AFTER
MASS
56
AREA
917
HEIGHT
685
20-Jul-2023
15:04
linh
pham



BEFORE
MASS
55
AREA
1362
HEIGHT
1313
20-Jul-2023
15:04
linh
pham



AFTER
MASS
55
AREA
1362
HEIGHT
1313
20-Jul-2023
15:04
linh
pham

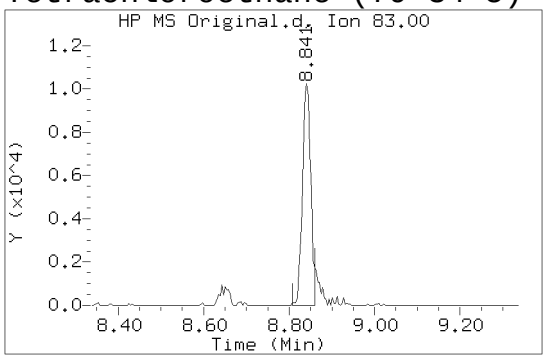


Data File : \\NAHSTWS005\Target\chem\voa6.i\X230714.b\X071405.D
Inj Date : 14-JUL-2023 13:23
InstruID : voa6.i
LabSampID : VSTD002

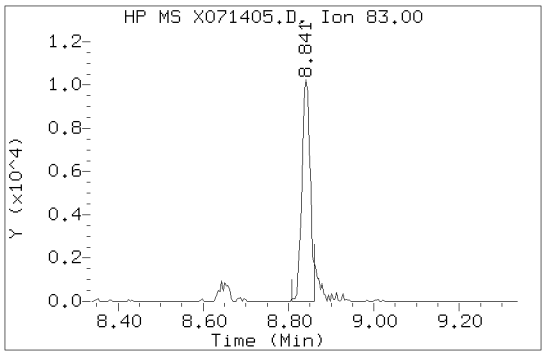
1,1,2,2-Tetrachloroethane (79-34-5)

Reason Code:

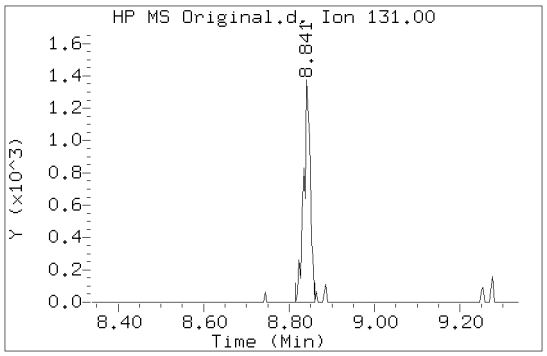
BEFORE
MASS
83
AREA
14352
HEIGHT
10244
20-Jul-2023
15:04
linh
pham



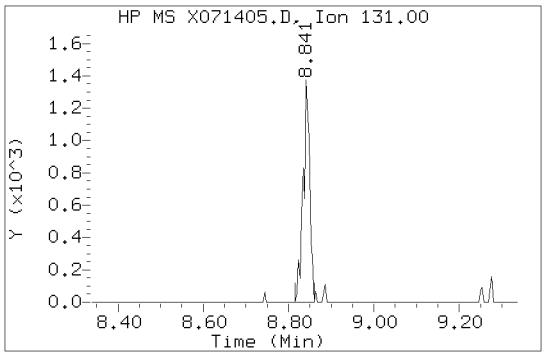
AFTER
MASS
83
AREA
14352
HEIGHT
10244
20-Jul-2023
15:04
linh
pham



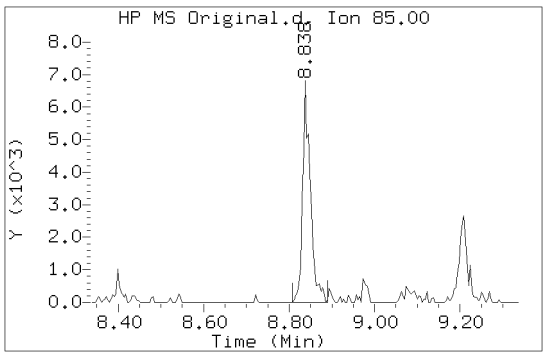
BEFORE
MASS
131
AREA
1498
HEIGHT
1375
20-Jul-2023
15:04
linh
pham



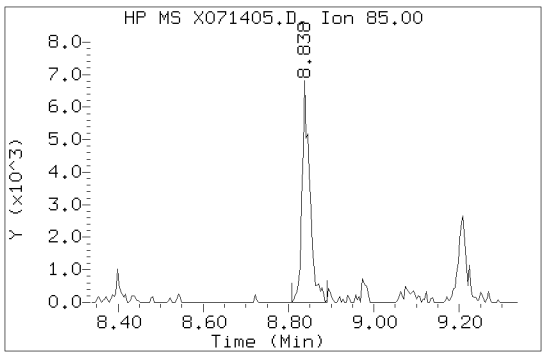
AFTER
MASS
131
AREA
1498
HEIGHT
1375
20-Jul-2023
15:04
linh
pham



BEFORE
MASS
85
AREA
8867
HEIGHT
6812
20-Jul-2023
15:04
linh
pham



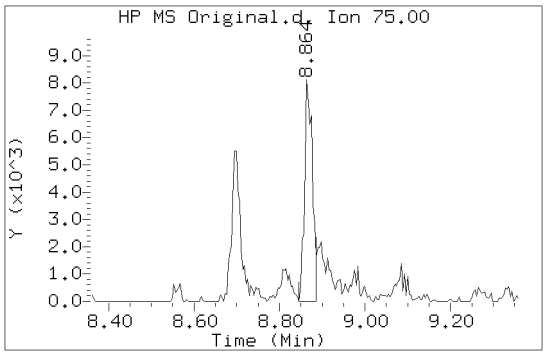
AFTER
MASS
85
AREA
8867
HEIGHT
6812
20-Jul-2023
15:04
linh
pham



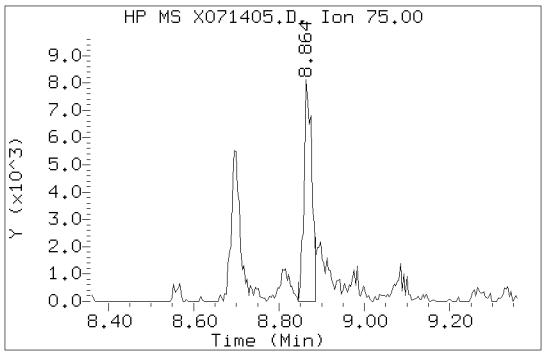
1,2,3-Trichloropropane (96-18-4)

Reason Code:

BEFORE
MASS
75
AREA
10578
HEIGHT
8119
20-Jul-2023
15:04
linh
pham



AFTER
MASS
75
AREA
10578
HEIGHT
8119
20-Jul-2023
15:04
linh
pham



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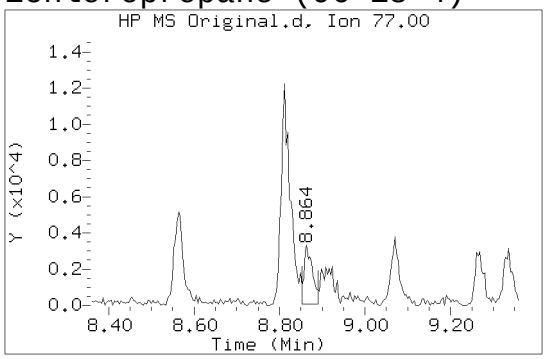
Inj Date : 14-JUL-2023 13:23
InstruID : voa6.i
LabSampID : VSTD002

1,2,3-Trichloropropane (96-18-4)

Reason Code:

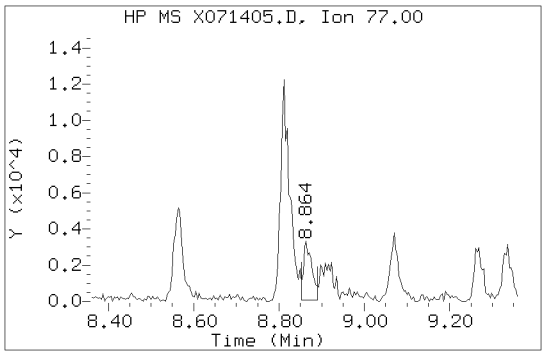
BEFORE

MASS
77
AREA
4616
HEIGHT
3271
20-Jul-2023
15:04
linh
pham



AFTER

MASS
77
AREA
4616
HEIGHT
3271
20-Jul-2023
15:04
linh
pham

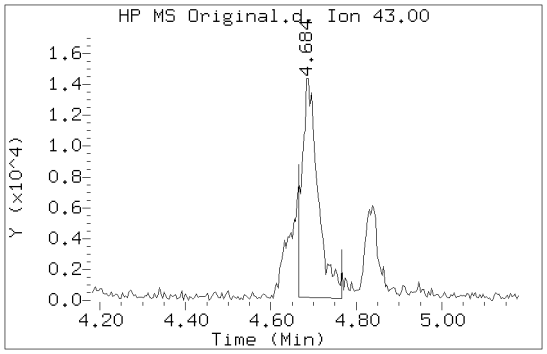


Isobutyl Alcohol (78-83-1)

Reason Code:

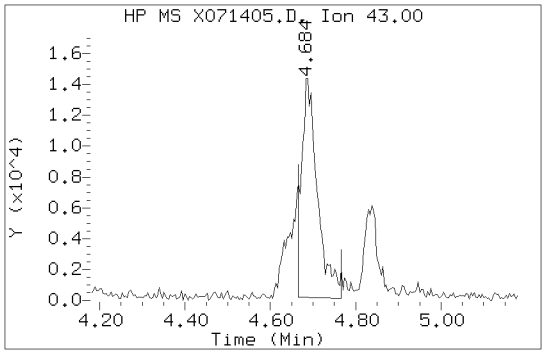
BEFORE

MASS
43
AREA
37832
HEIGHT
14170
20-Jul-2023
15:04
linh
pham



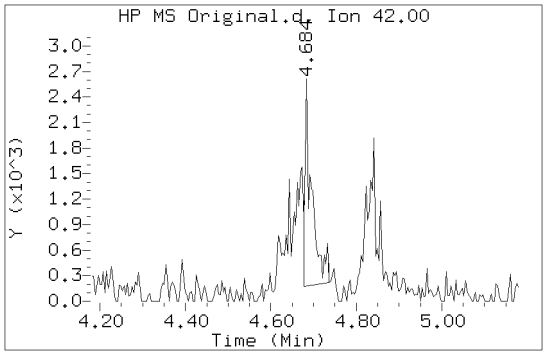
AFTER

MASS
43
AREA
37832
HEIGHT
14170
20-Jul-2023
15:04
linh
pham



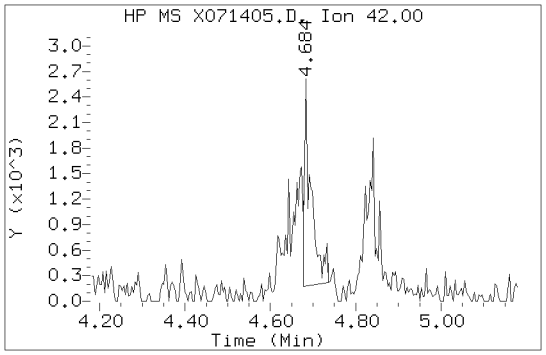
BEFORE

MASS
42
AREA
2790
HEIGHT
2433
20-Jul-2023
15:04
linh
pham



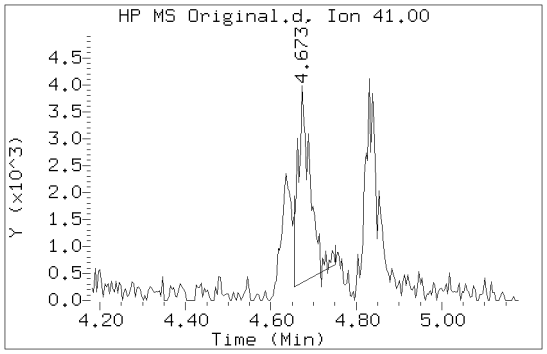
AFTER

MASS
42
AREA
2790
HEIGHT
2433
20-Jul-2023
15:04
linh
pham



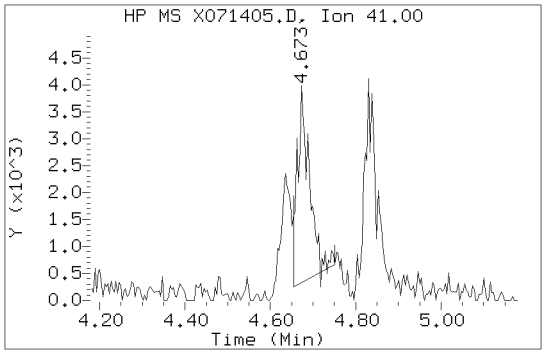
BEFORE

MASS
41
AREA
7292
HEIGHT
3653
20-Jul-2023
15:04
linh
pham



AFTER

MASS
41
AREA
7292
HEIGHT
3653
20-Jul-2023
15:04
linh
pham



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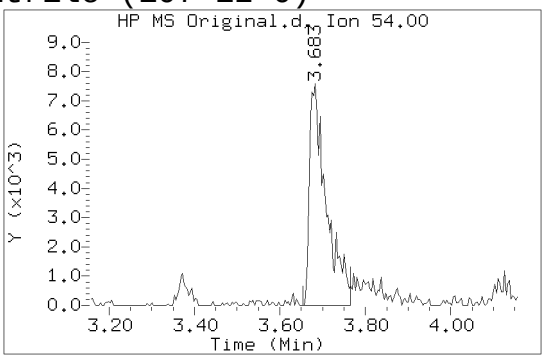
Inj Date : 14-JUL-2023 13:23
InstruID : voa6.i
LabSampID : VSTD002

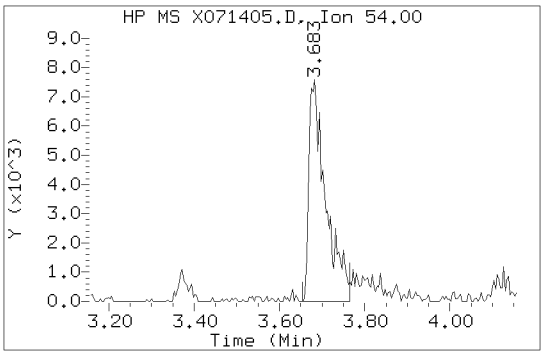
Propionitrile (107-12-0)

Reason Code:

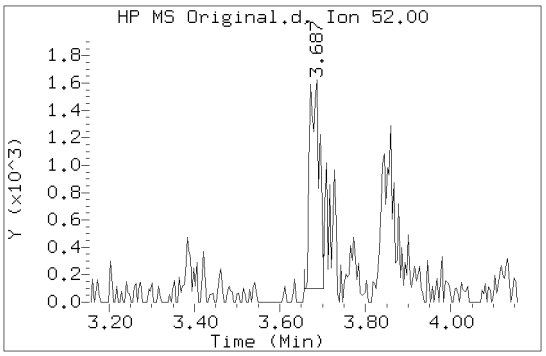
BEFORE
MASS
54
AREA
20667
HEIGHT
7586
20-Jul-2023
15:04
linh
pham



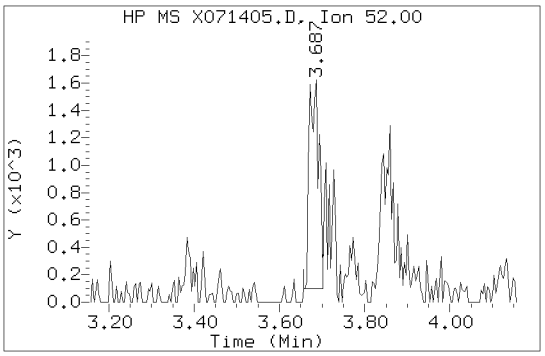
AFTER
MASS
54
AREA
20667
HEIGHT
7586
20-Jul-2023
15:04
linh
pham



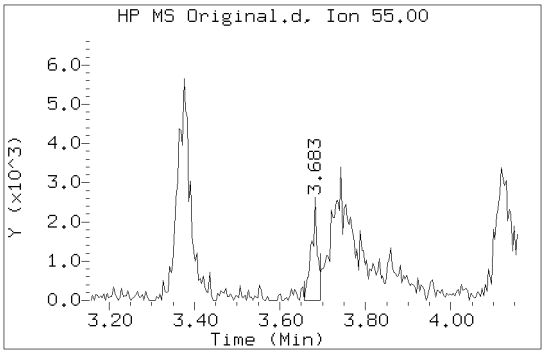
BEFORE
MASS
52
AREA
2370
HEIGHT
1524
20-Jul-2023
15:04
linh
pham



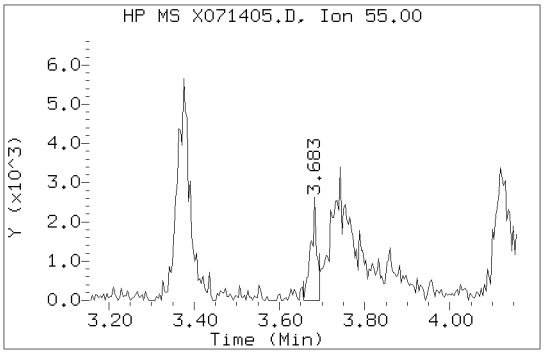
AFTER
MASS
52
AREA
2370
HEIGHT
1524
20-Jul-2023
15:04
linh
pham



BEFORE
MASS
55
AREA
2547
HEIGHT
2627
20-Jul-2023
15:04
linh
pham



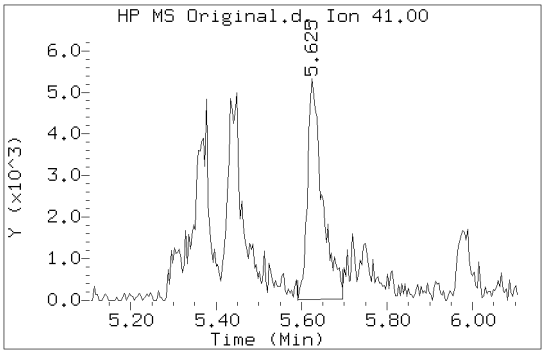
AFTER
MASS
55
AREA
2547
HEIGHT
2627
20-Jul-2023
15:04
linh
pham



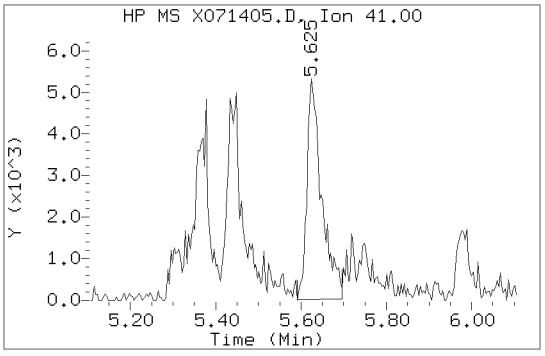
Methyl Methacrylate (80-62-6)

Reason Code:

BEFORE
MASS
41
AREA
12770
HEIGHT
5309
20-Jul-2023
15:04
linh
pham



AFTER
MASS
41
AREA
12770
HEIGHT
5309
20-Jul-2023
15:04
linh
pham



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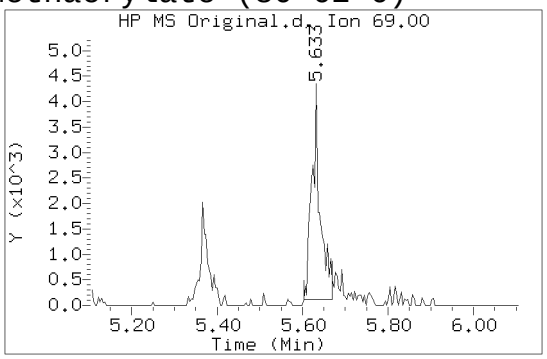
Inj Date : 14-JUL-2023 13:23
InstruID : voa6.i
LabSampID : VSTD002

Methyl Methacrylate (80-62-6)

Reason Code:

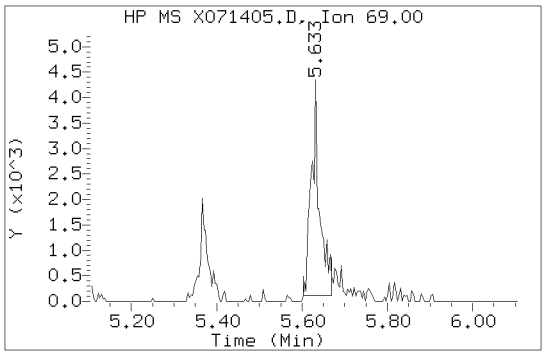
BEFORE

MASS
69
AREA
5709
HEIGHT
4235
20-Jul-2023
15:04
linh
pham



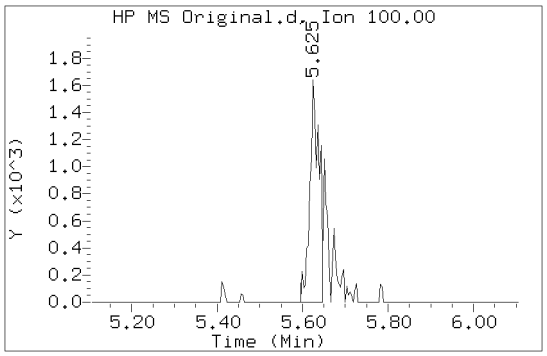
AFTER

MASS
69
AREA
5709
HEIGHT
4235
20-Jul-2023
15:04
linh
pham



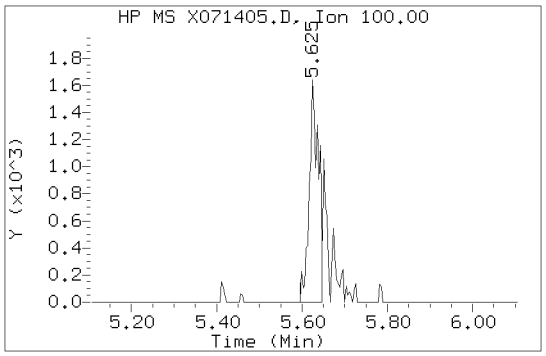
BEFORE

MASS
100
AREA
2452
HEIGHT
1641
20-Jul-2023
15:04
linh
pham



AFTER

MASS
100
AREA
2452
HEIGHT
1641
20-Jul-2023
15:04
linh
pham

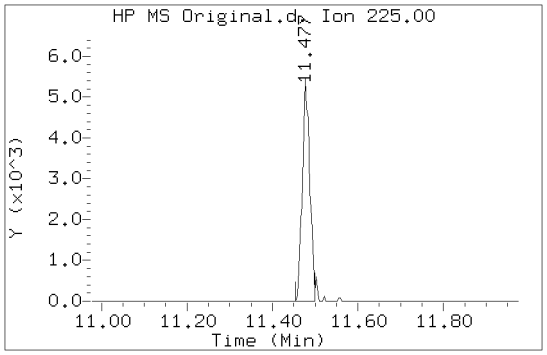


Hexachlorobutadiene (87-68-3)

Reason Code:

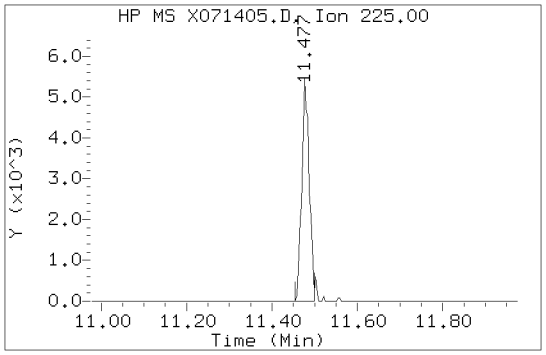
BEFORE

MASS
225
AREA
6844
HEIGHT
5446
20-Jul-2023
15:04
linh
pham



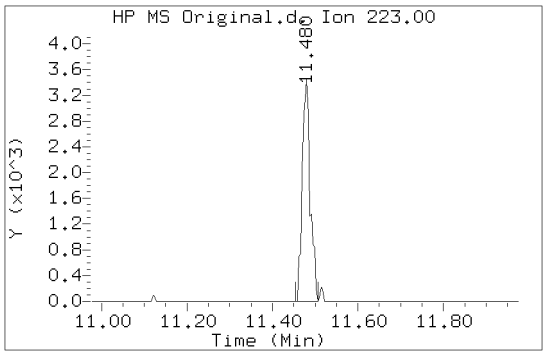
AFTER

MASS
225
AREA
6844
HEIGHT
5446
20-Jul-2023
15:04
linh
pham



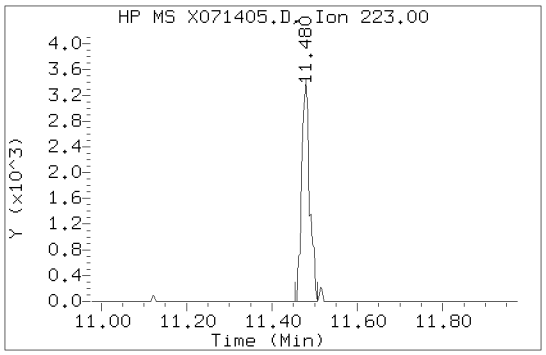
BEFORE

MASS
223
AREA
4606
HEIGHT
3443
20-Jul-2023
15:04
linh
pham



AFTER

MASS
223
AREA
4606
HEIGHT
3443
20-Jul-2023
15:04
linh
pham



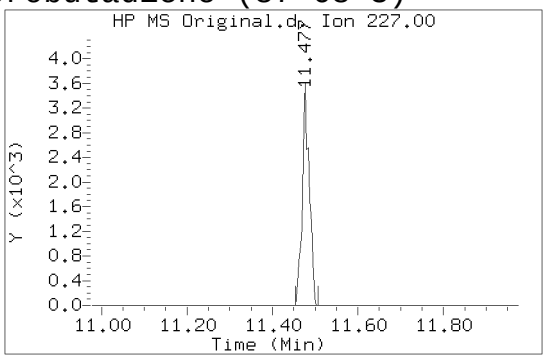
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230714.b\X071405.D
Inj Date : 14-JUL-2023 13:23
InstruID : voa6.i
LabSampID : VSTD002

Hexachlorobutadiene (87-68-3)

Reason Code:

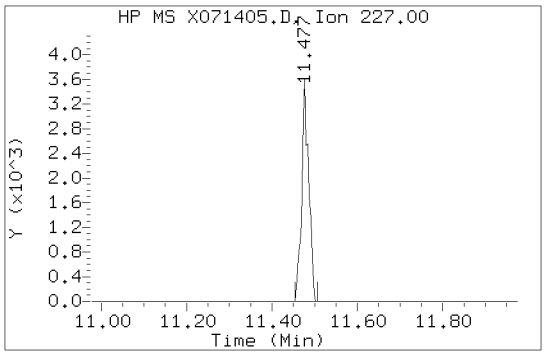
BEFORE

MASS
227
AREA
4231
HEIGHT
3595
20-Jul-2023
15:04
linh
pham



AFTER

MASS
227
AREA
4231
HEIGHT
3595
20-Jul-2023
15:04
linh
pham

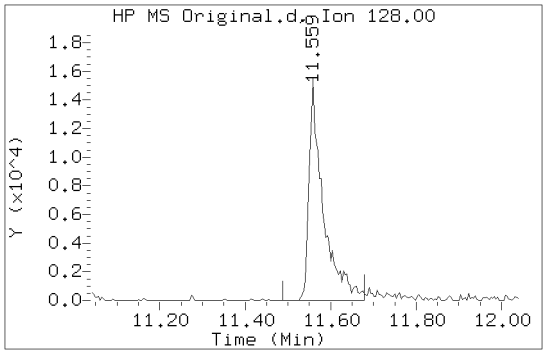


Naphthalene (91-20-3)

Reason Code:

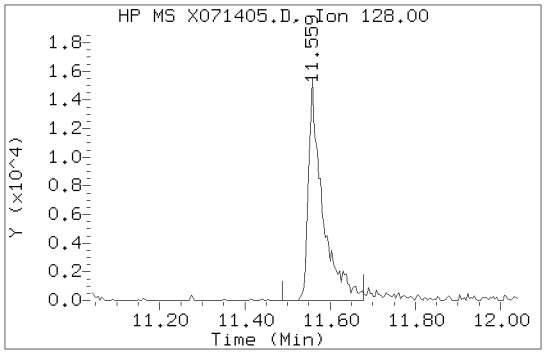
BEFORE

MASS
128
AREA
35806
HEIGHT
15488
20-Jul-2023
15:04
linh
pham



AFTER

MASS
128
AREA
35806
HEIGHT
15488
20-Jul-2023
15:04
linh
pham

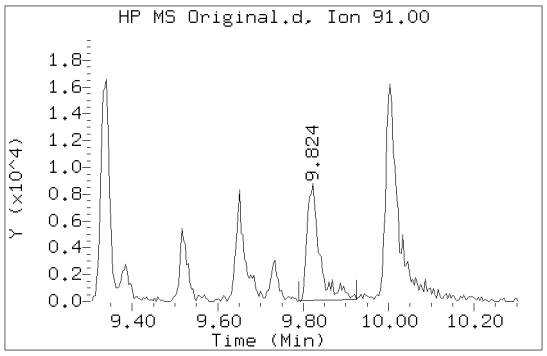


Benzyl Chloride (100-44-7)

Reason Code:

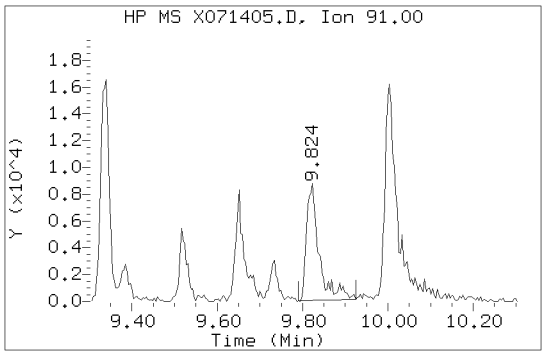
BEFORE

MASS
91
AREA
17851
HEIGHT
8726
20-Jul-2023
15:04
linh
pham



AFTER

MASS
91
AREA
17851
HEIGHT
8726
20-Jul-2023
15:04
linh
pham

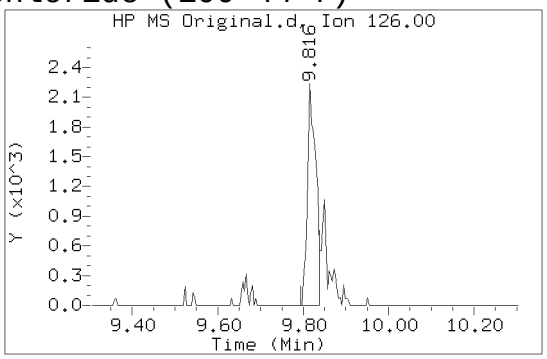


Data File : \\NAHSTWS005\Target\chem\voa6.i\X230714.b\X071405.D
Inj Date : 14-JUL-2023 13:23
InstruID : voa6.i
LabSampID : VSTD002

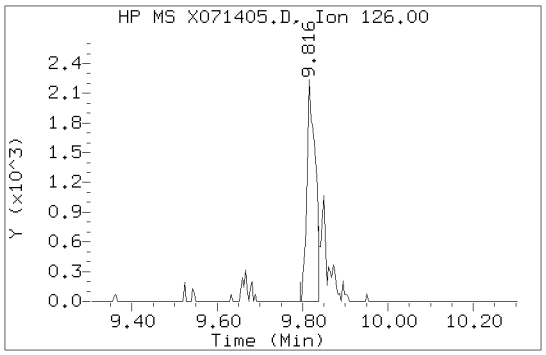
Benzyl Chloride (100-44-7)

Reason Code:

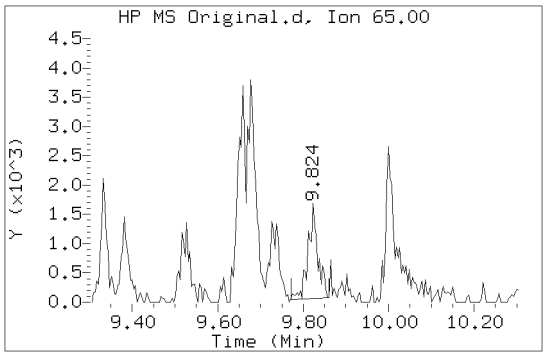
BEFORE
MASS
126
AREA
3073
HEIGHT
2237
20-Jul-2023
15:04
linh
pham



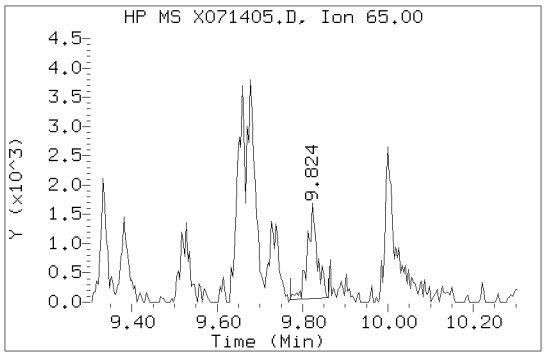
AFTER
MASS
126
AREA
3073
HEIGHT
2237
20-Jul-2023
15:04
linh
pham



BEFORE
MASS
65
AREA
2588
HEIGHT
1635
20-Jul-2023
15:04
linh
pham



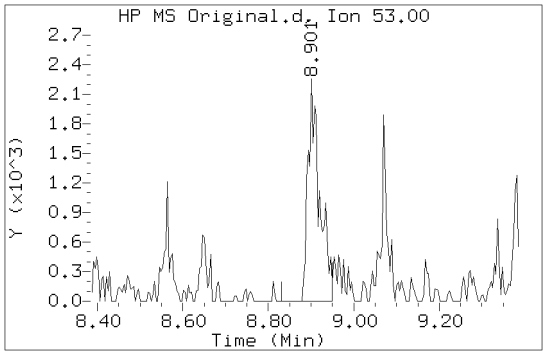
AFTER
MASS
65
AREA
2588
HEIGHT
1635
20-Jul-2023
15:04
linh
pham



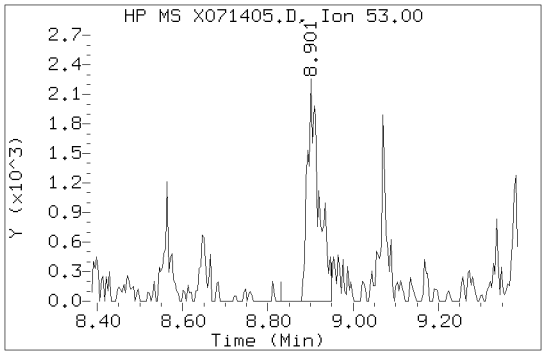
trans-1,4-Dichloro-2-butene (110-57-6)

Reason Code:

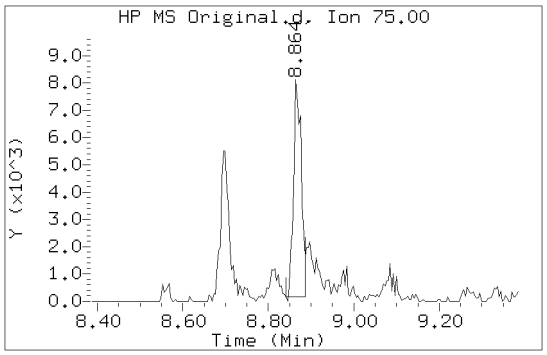
BEFORE
MASS
53
AREA
4279
HEIGHT
2257
20-Jul-2023
15:04
linh
pham



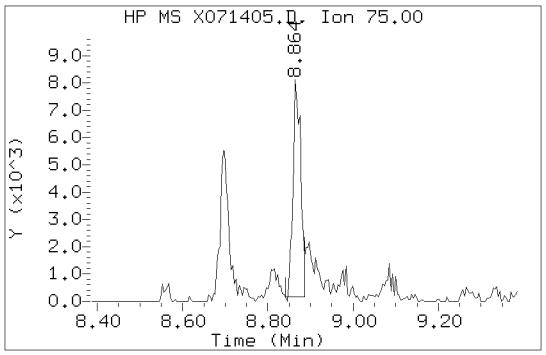
AFTER
MASS
53
AREA
4279
HEIGHT
2257
20-Jul-2023
15:04
linh
pham



BEFORE
MASS
75
AREA
10144
HEIGHT
7958
20-Jul-2023
15:04
linh
pham



AFTER
MASS
75
AREA
10144
HEIGHT
7958
20-Jul-2023
15:04
linh
pham

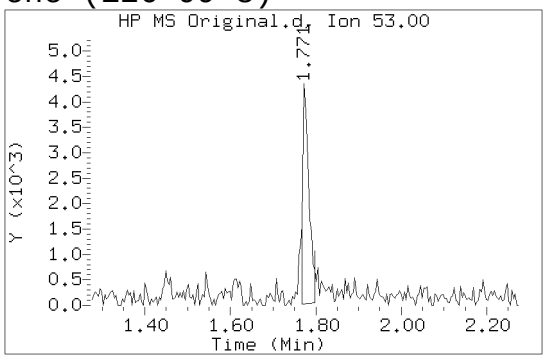


Data File : \\NAHSTWS005\Target\chem\voa6.i\X230714.b\X071405.D
Inj Date : 14-JUL-2023 13:23
InstruID : voa6.i
LabSampID : VSTD002

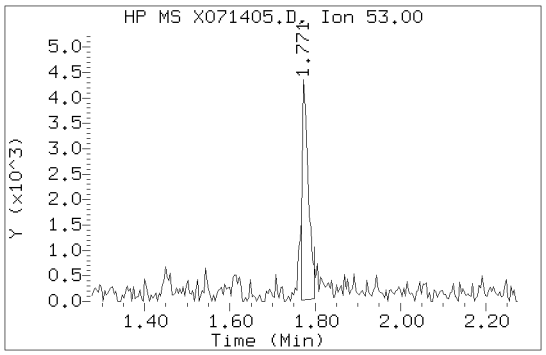
Chloroprene (126-99-8)

Reason Code:

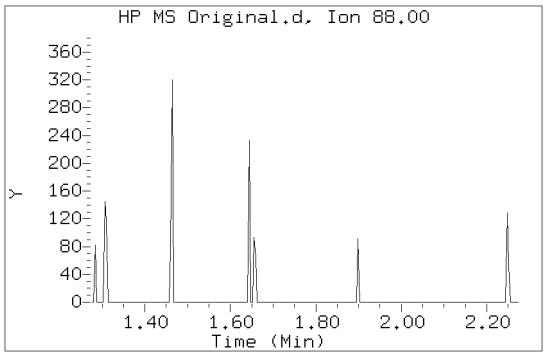
BEFORE
MASS
53
AREA
4560
HEIGHT
4328
20-Jul-2023
15:04
linh
pham



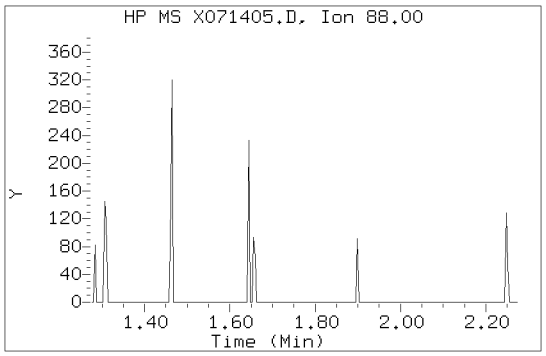
AFTER
MASS
53
AREA
4560
HEIGHT
4328
20-Jul-2023
15:04
linh
pham



BEFORE
MASS
88
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham



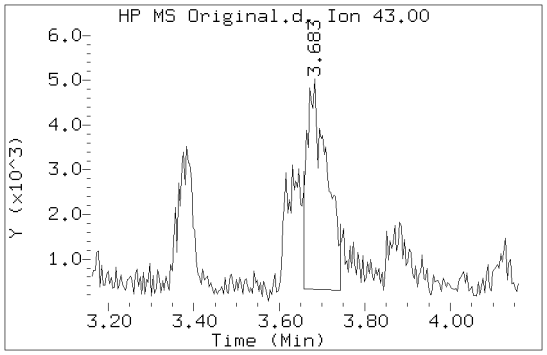
AFTER
MASS
88
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham



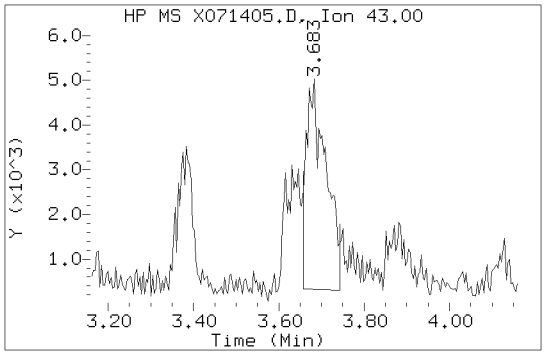
Ethyl Acetate (141-78-6)

Reason Code:

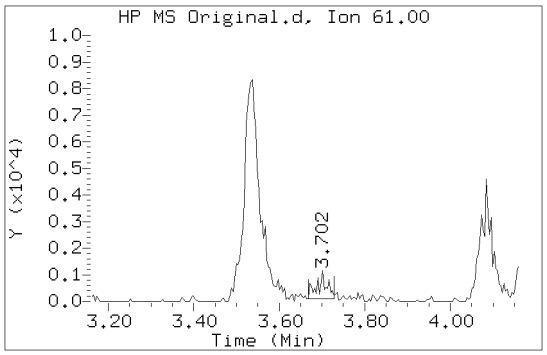
BEFORE
MASS
43
AREA
15481
HEIGHT
4704
20-Jul-2023
15:04
linh
pham



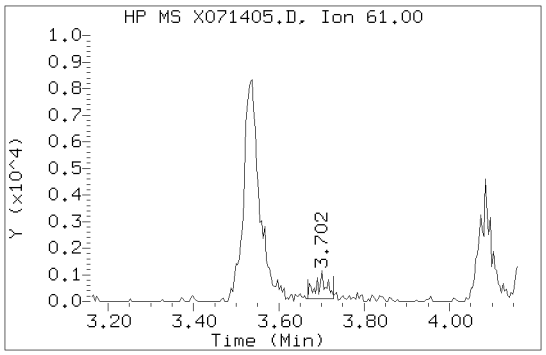
AFTER
MASS
43
AREA
15481
HEIGHT
4704
20-Jul-2023
15:04
linh
pham



BEFORE
MASS
61
AREA
1598
HEIGHT
1061
20-Jul-2023
15:04
linh
pham



AFTER
MASS
61
AREA
1598
HEIGHT
1061
20-Jul-2023
15:04
linh
pham



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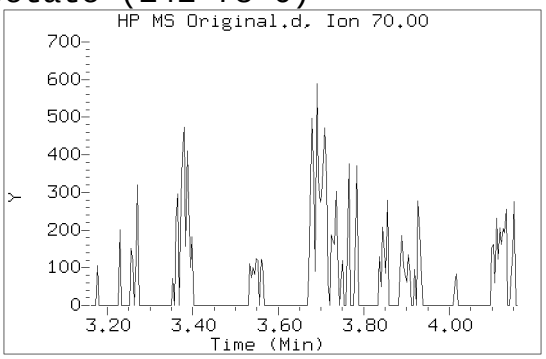
Inj Date : 14-JUL-2023 13:23
InstruID : voa6.i
LabSampID : VSTD002

Ethyl Acetate (141-78-6)

Reason Code:

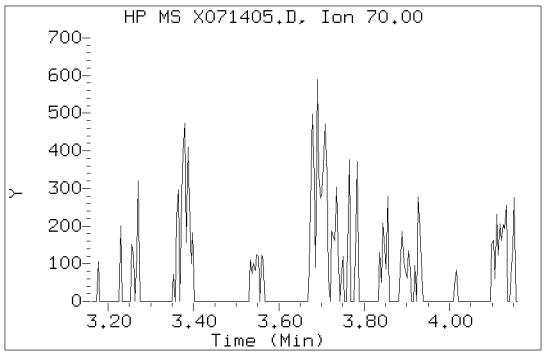
BEFORE

MASS
70
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham



AFTER

MASS
70
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham

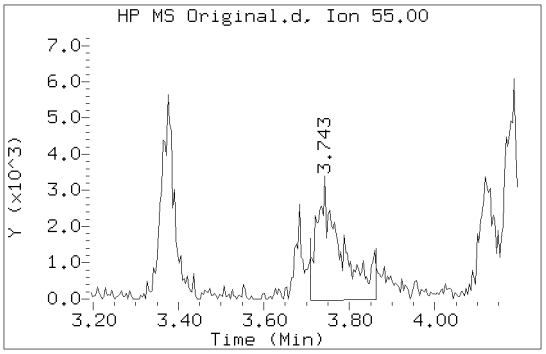


Methyl Acrylate (96-33-3)

Reason Code:

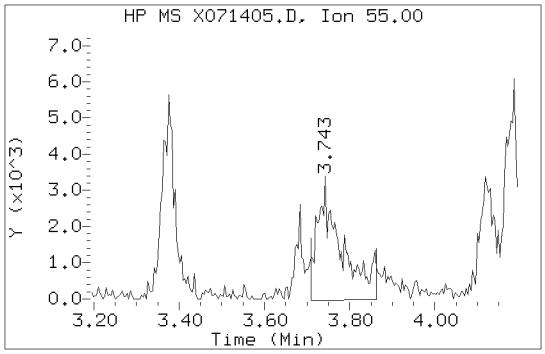
BEFORE

MASS
55
AREA
13406
HEIGHT
3436
20-Jul-2023
15:04
linh
pham



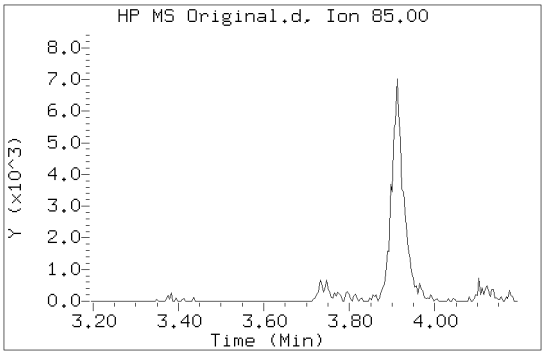
AFTER

MASS
55
AREA
13406
HEIGHT
3436
20-Jul-2023
15:04
linh
pham



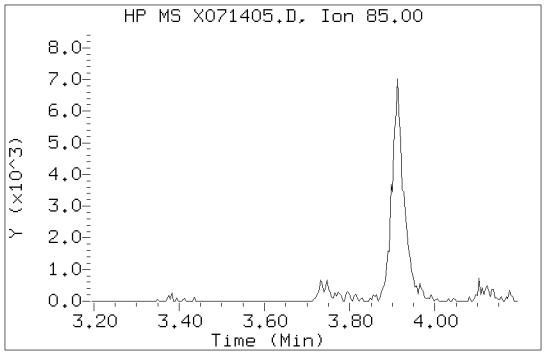
BEFORE

MASS
85
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham



AFTER

MASS
85
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham

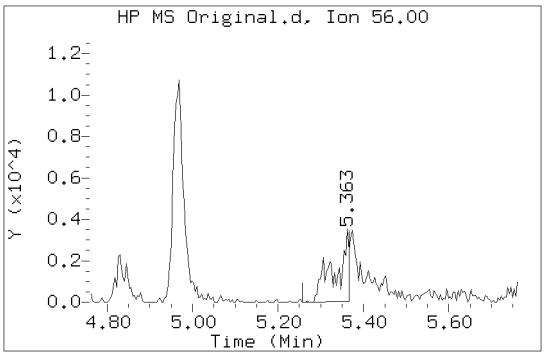


n-Butanol (71-36-3)

Reason Code:

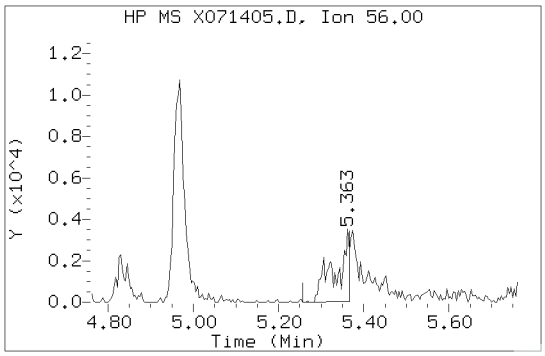
BEFORE

MASS
56
AREA
7443
HEIGHT
3529
20-Jul-2023
15:04
linh
pham



AFTER

MASS
56
AREA
7443
HEIGHT
3529
20-Jul-2023
15:04
linh
pham



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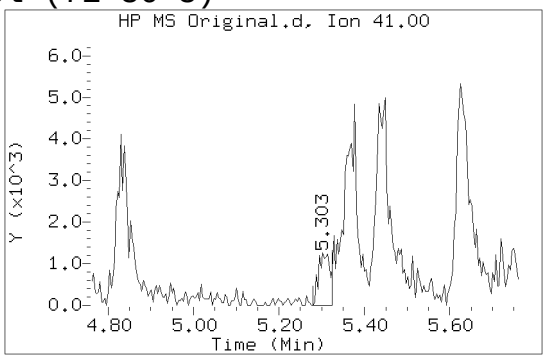
Inj Date : 14-JUL-2023 13:23
InstruID : voa6.i
LabSampID : VSTD002

n-Butanol (71-36-3)

Reason Code:

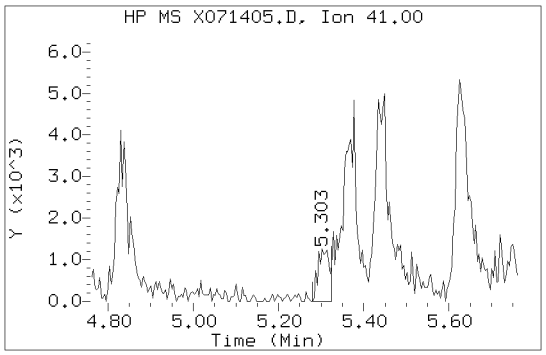
BEFORE

MASS
41
AREA
2384
HEIGHT
1261
20-Jul-2023
15:04
linh
pham



AFTER

MASS
41
AREA
2384
HEIGHT
1261
20-Jul-2023
15:04
linh
pham

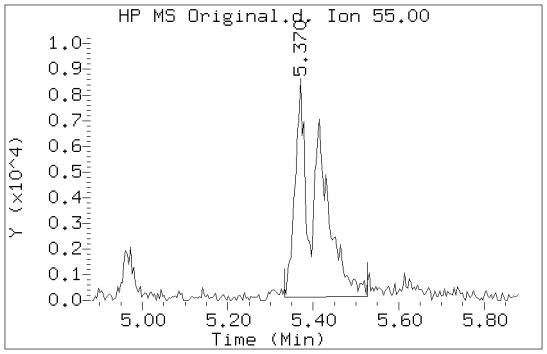


Ethyl Acrylate (140-88-5)

Reason Code:

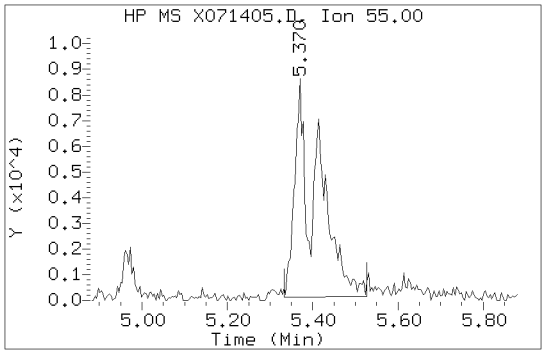
BEFORE

MASS
55
AREA
31450
HEIGHT
8507
20-Jul-2023
15:04
linh
pham



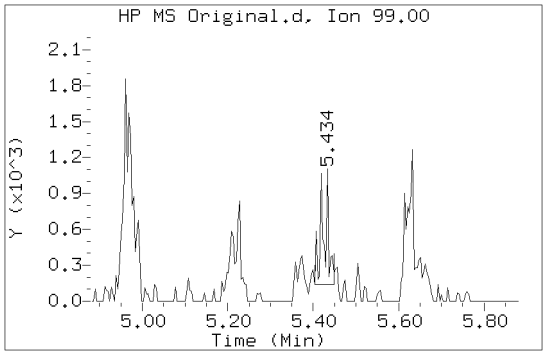
AFTER

MASS
55
AREA
31450
HEIGHT
8507
20-Jul-2023
15:04
linh
pham



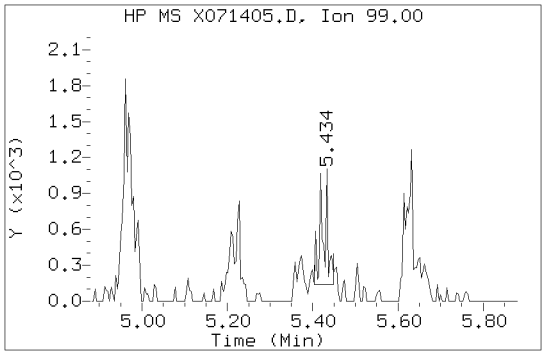
BEFORE

MASS
99
AREA
888
HEIGHT
965
20-Jul-2023
15:04
linh
pham



AFTER

MASS
99
AREA
888
HEIGHT
965
20-Jul-2023
15:04
linh
pham

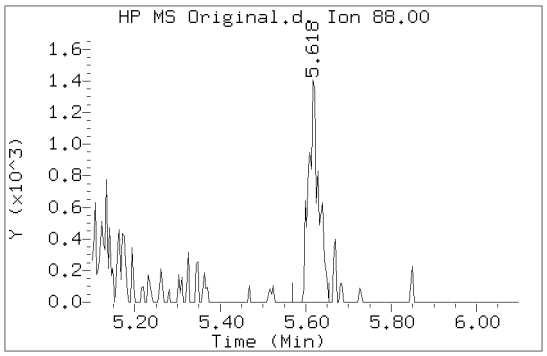


1,4-Dioxane ()

Reason Code:

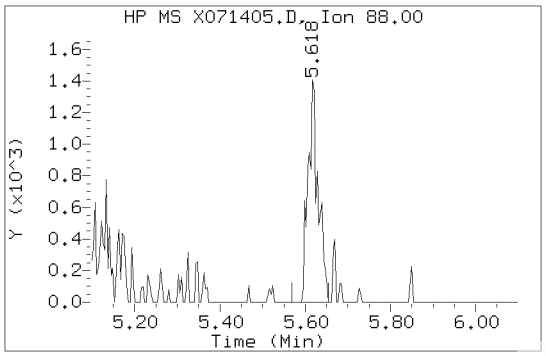
BEFORE

MASS
88
AREA
2323
HEIGHT
1407
20-Jul-2023
15:04
linh
pham



AFTER

MASS
88
AREA
2323
HEIGHT
1407
20-Jul-2023
15:04
linh
pham



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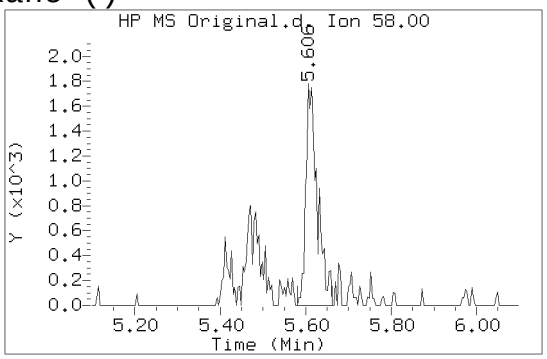
Inj Date : 14-JUL-2023 13:23
InstruID : voa6.i
LabSampID : VSTD002

1,4-Dioxane ()

Reason Code:

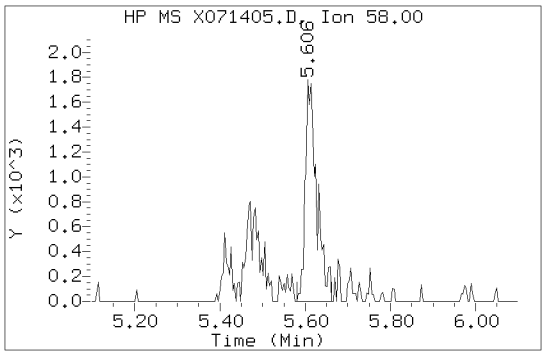
BEFORE

MASS
58
AREA
3341
HEIGHT
1781
20-Jul-2023
15:04
linh
pham



AFTER

MASS
58
AREA
3341
HEIGHT
1781
20-Jul-2023
15:04
linh
pham

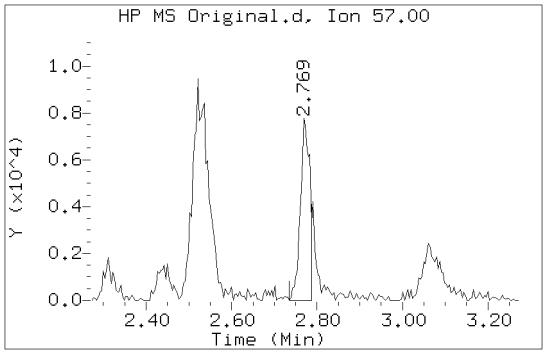


n-Hexane (110-54-3)

Reason Code:

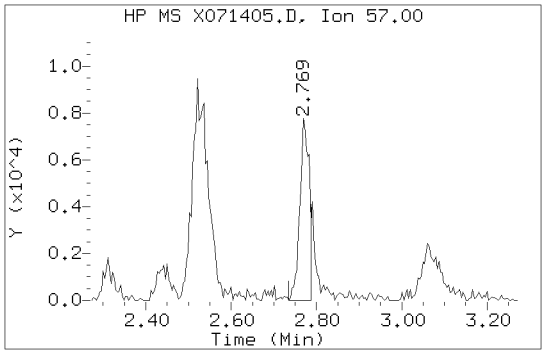
BEFORE

MASS
57
AREA
11984
HEIGHT
7776
20-Jul-2023
15:04
linh
pham



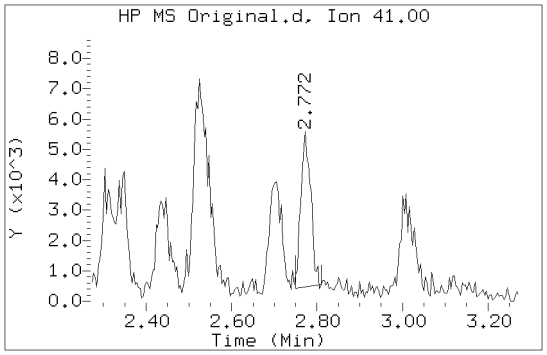
AFTER

MASS
57
AREA
11984
HEIGHT
7776
20-Jul-2023
15:04
linh
pham



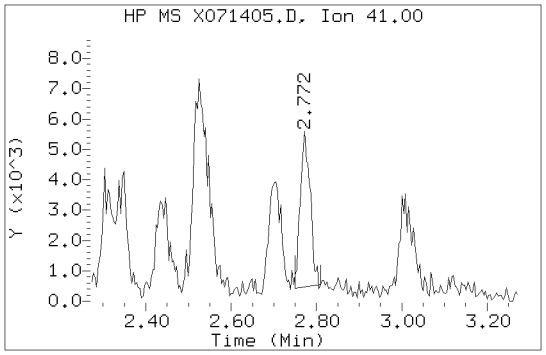
BEFORE

MASS
41
AREA
8381
HEIGHT
5113
20-Jul-2023
15:04
linh
pham



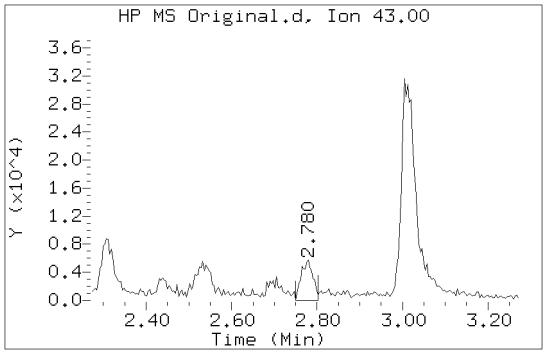
AFTER

MASS
41
AREA
8381
HEIGHT
5113
20-Jul-2023
15:04
linh
pham



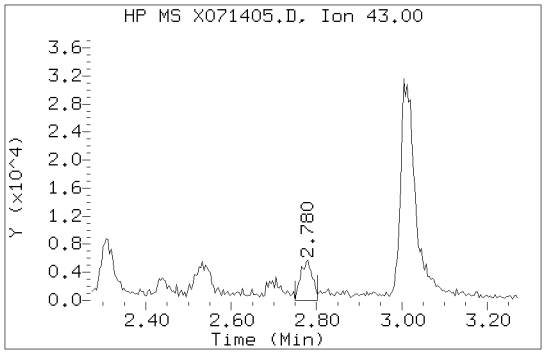
BEFORE

MASS
43
AREA
11133
HEIGHT
5721
20-Jul-2023
15:04
linh
pham



AFTER

MASS
43
AREA
11133
HEIGHT
5721
20-Jul-2023
15:04
linh
pham

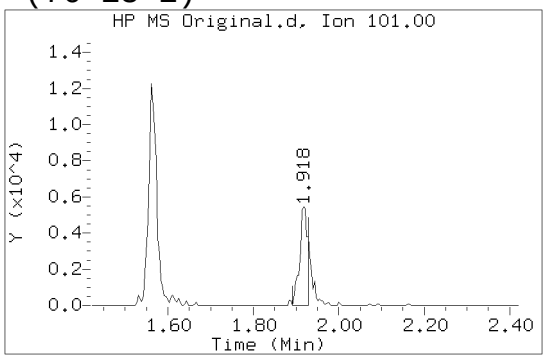


Data File : \\NAHSTWS005\Target\chem\voa6.i\X230714.b\X071405.D
Inj Date : 14-JUL-2023 13:23
InstruID : voa6.i
LabSampID : VSTD002

Freon TF (76-13-1)

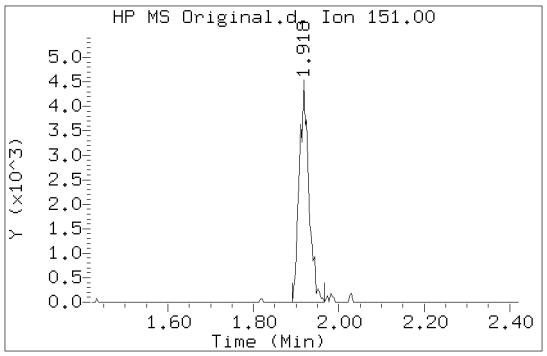
BEFORE

MASS
101
AREA
7195
HEIGHT
5473
20-Jul-2023
15:04
linh
pham



BEFORE

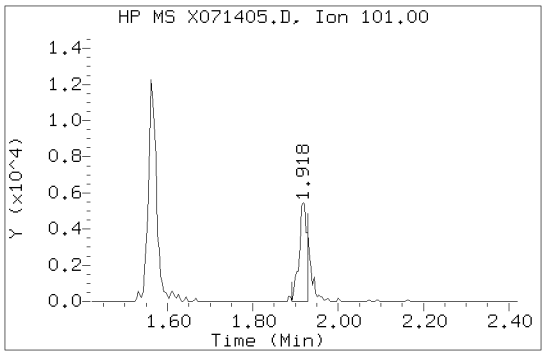
MASS
151
AREA
7204
HEIGHT
4541
20-Jul-2023
15:04
linh
pham



Reason Code:

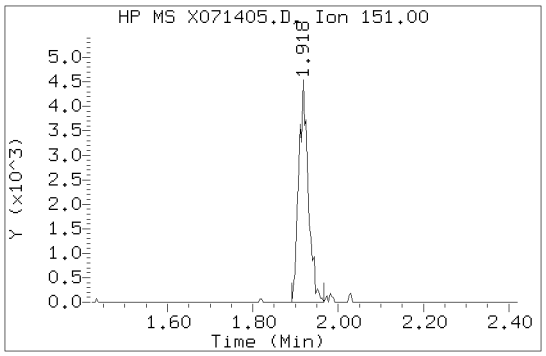
AFTER

MASS
101
AREA
7195
HEIGHT
5473
20-Jul-2023
15:04
linh
pham



AFTER

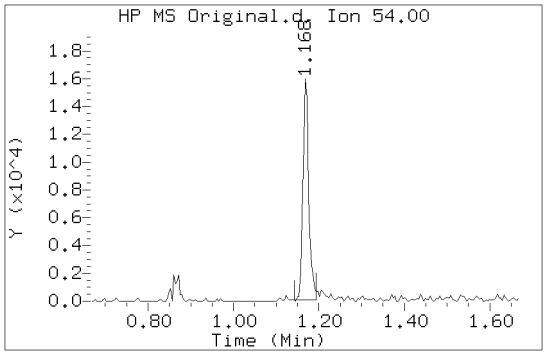
MASS
151
AREA
7204
HEIGHT
4541
20-Jul-2023
15:04
linh
pham



1,3-Butadiene (106-99-0)

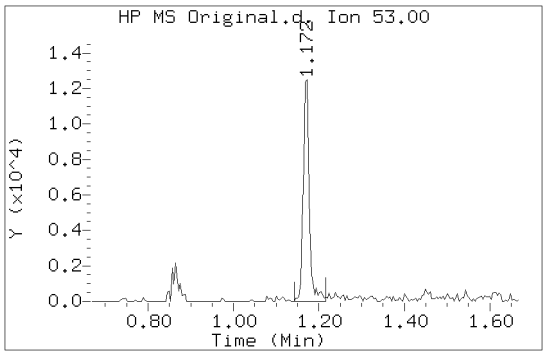
BEFORE

MASS
54
AREA
15351
HEIGHT
15893
20-Jul-2023
15:04
linh
pham



BEFORE

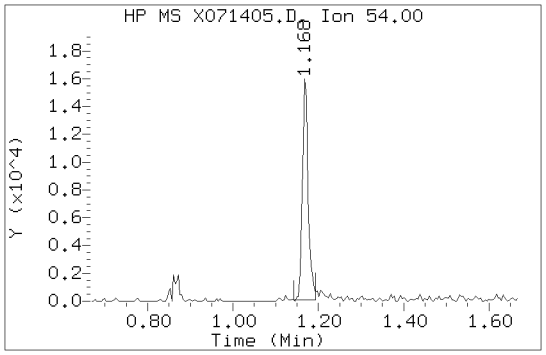
MASS
53
AREA
12769
HEIGHT
12495
20-Jul-2023
15:04
linh
pham



Reason Code:

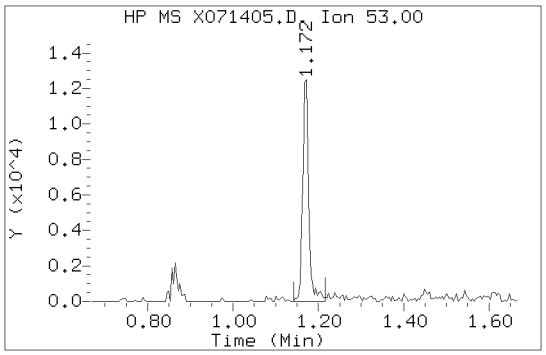
AFTER

MASS
54
AREA
15351
HEIGHT
15893
20-Jul-2023
15:04
linh
pham



AFTER

MASS
53
AREA
12769
HEIGHT
12495
20-Jul-2023
15:04
linh
pham

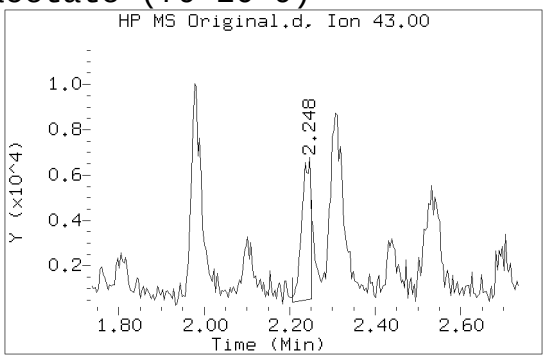


Data File : \\NAHSTWS005\Target\chem\voa6.i\X230714.b\X071405.D
Inj Date : 14-JUL-2023 13:23
InstruID : voa6.i
LabSampID : VSTD002

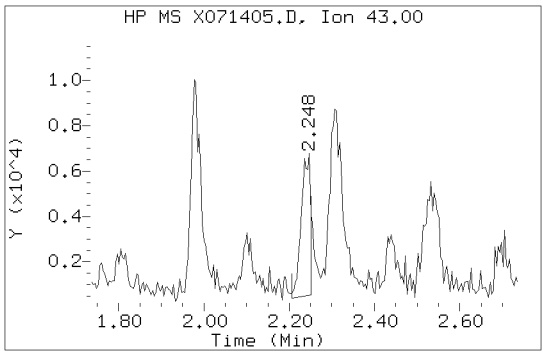
Methyl acetate (79-20-9)

Reason Code:

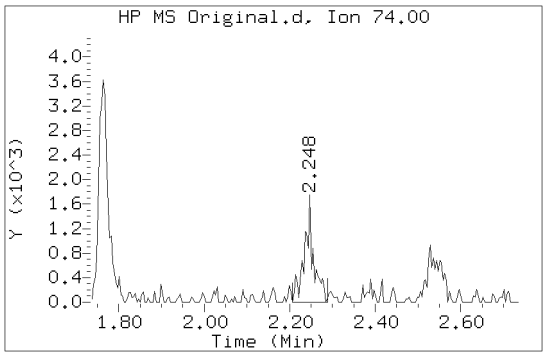
BEFORE
MASS
43
AREA
9491
HEIGHT
6252
20-Jul-2023
15:04
linh
pham



AFTER
MASS
43
AREA
9491
HEIGHT
6252
20-Jul-2023
15:04
linh
pham



BEFORE
MASS
74
AREA
2612
HEIGHT
1756
20-Jul-2023
15:04
linh
pham



AFTER
MASS
74
AREA
2612
HEIGHT
1756
20-Jul-2023
15:04
linh
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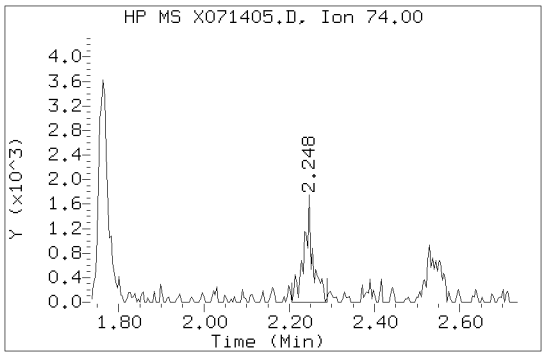
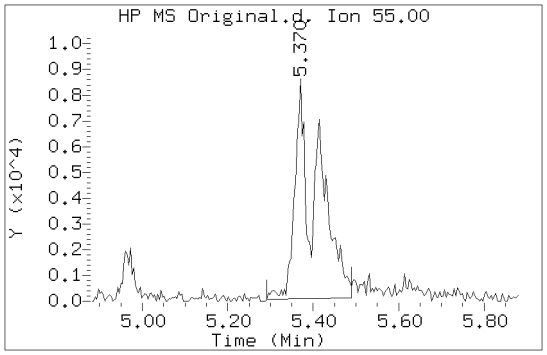


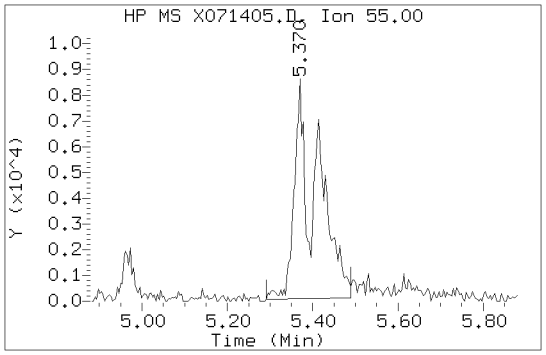
Methylcyclohexane (108-87-2)

Reason Code:

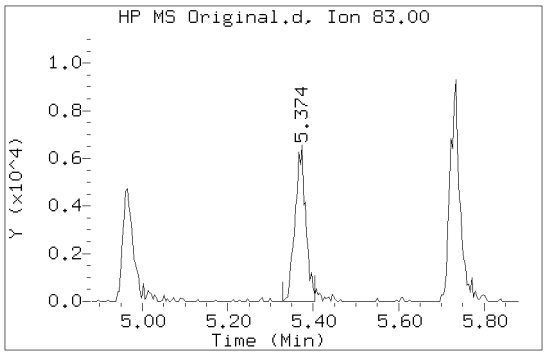
BEFORE
MASS
55
AREA
31142
HEIGHT
8535
20-Jul-2023
15:04
linh
pham



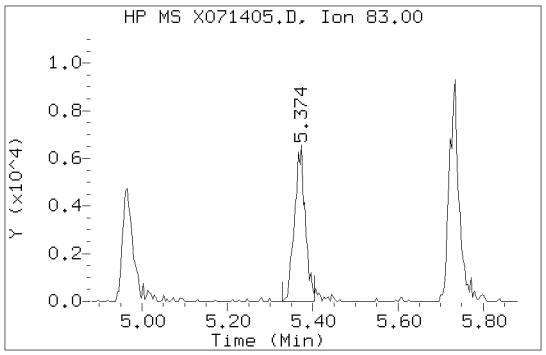
AFTER
MASS
55
AREA
31142
HEIGHT
8535
20-Jul-2023
15:04
linh
pham



BEFORE
MASS
83
AREA
11484
HEIGHT
6566
20-Jul-2023
15:04
linh
pham



AFTER
MASS
83
AREA
11484
HEIGHT
6566
20-Jul-2023
15:04
linh
pham



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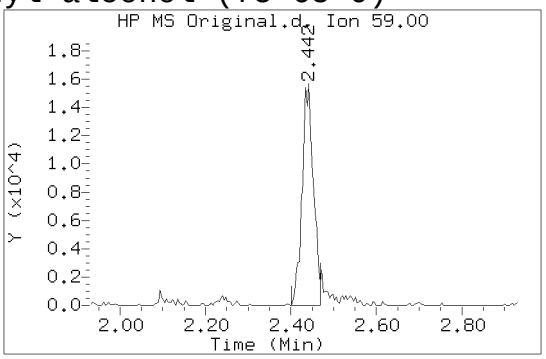
Inj Date : 14-JUL-2023 13:23
InstruID : voa6.i
LabSampID : VSTD002

Tert-butyl alcohol (75-65-0)

Reason Code:

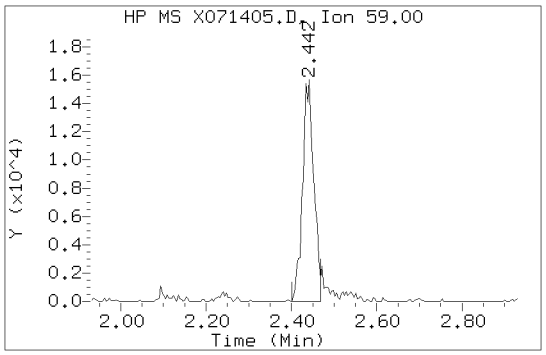
BEFORE

MASS
59
AREA
29280
HEIGHT
15681
20-Jul-2023
15:04
linh
pham



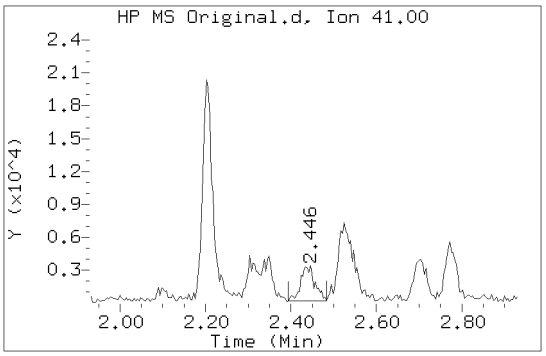
AFTER

MASS
59
AREA
29280
HEIGHT
15681
20-Jul-2023
15:04
linh
pham



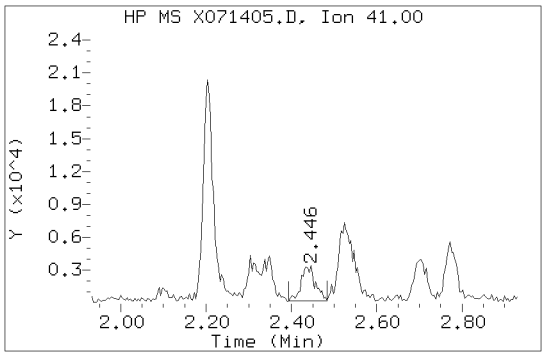
BEFORE

MASS
41
AREA
7457
HEIGHT
3224
20-Jul-2023
15:04
linh
pham



AFTER

MASS
41
AREA
7457
HEIGHT
3224
20-Jul-2023
15:04
linh
pham

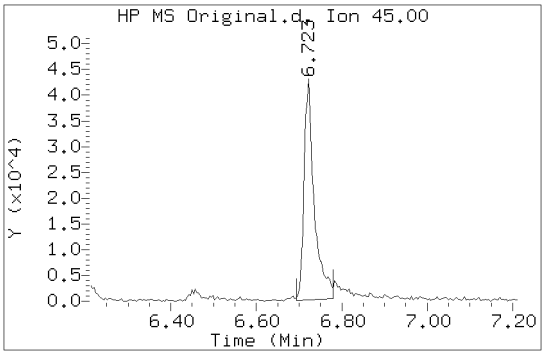


4-Methyl-2-pentanol (108-11-2)

Reason Code:

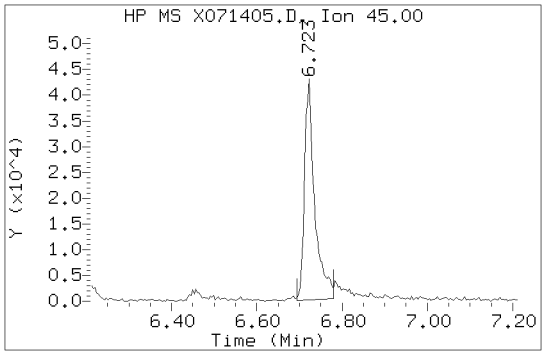
BEFORE

MASS
45
AREA
72210
HEIGHT
42882
20-Jul-2023
15:04
linh
pham



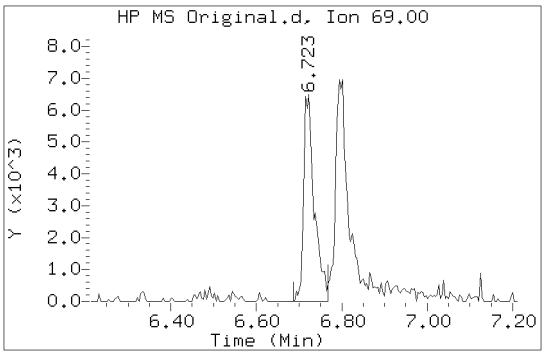
AFTER

MASS
45
AREA
72210
HEIGHT
42882
20-Jul-2023
15:04
linh
pham



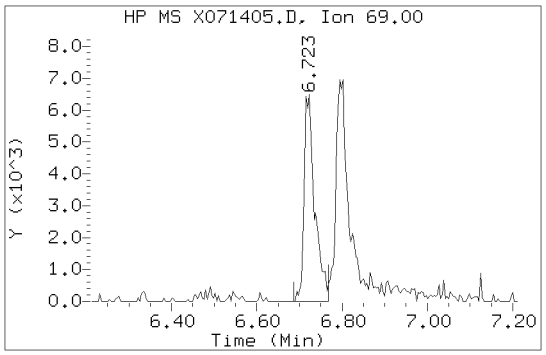
BEFORE

MASS
69
AREA
11484
HEIGHT
6492
20-Jul-2023
15:04
linh
pham



AFTER

MASS
69
AREA
11484
HEIGHT
6492
20-Jul-2023
15:04
linh
pham



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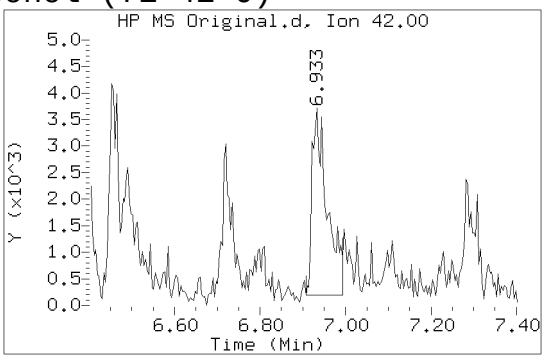
Inj Date : 14-JUL-2023 13:23
InstruID : voa6.i
LabSampID : VSTD002

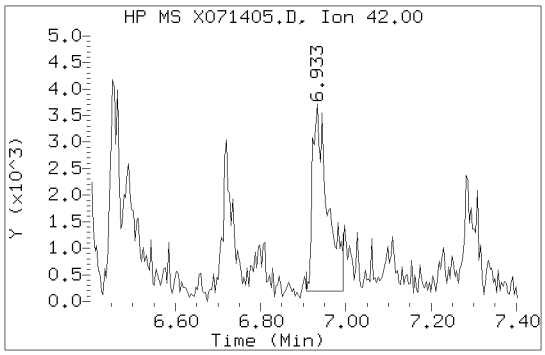
Amyl alcohol (71-41-0)

Reason Code:

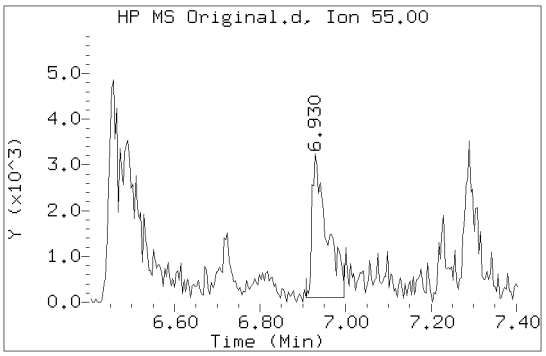
BEFORE
MASS
42
AREA
8579
HEIGHT
3524
20-Jul-2023
15:04
linh
pham



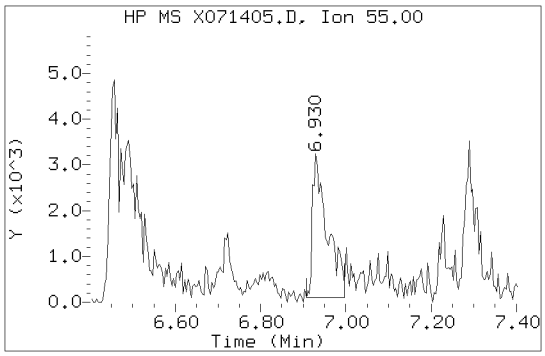
AFTER
MASS
42
AREA
8579
HEIGHT
3524
20-Jul-2023
15:04
linh
pham



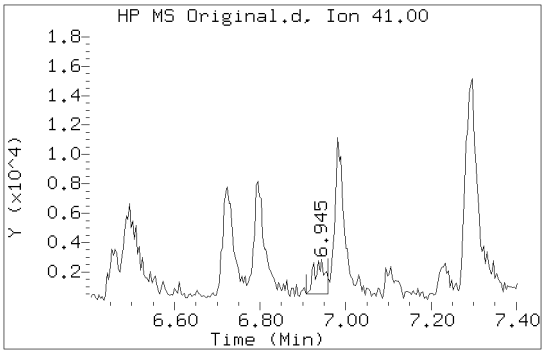
BEFORE
MASS
55
AREA
7591
HEIGHT
3153
20-Jul-2023
15:04
linh
pham



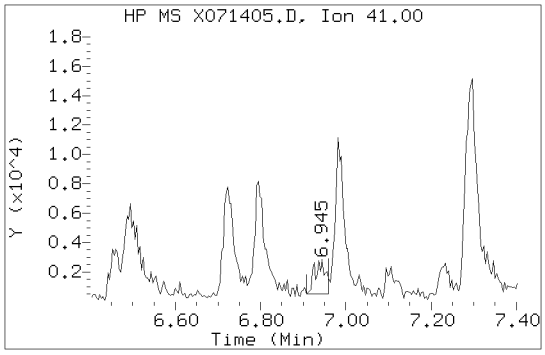
AFTER
MASS
55
AREA
7591
HEIGHT
3153
20-Jul-2023
15:04
linh
pham



BEFORE
MASS
41
AREA
4124
HEIGHT
2354
20-Jul-2023
15:04
linh
pham



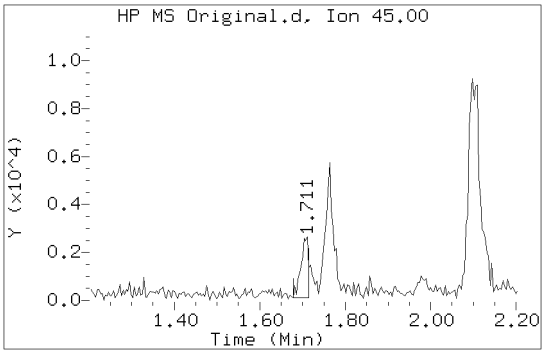
AFTER
MASS
41
AREA
4124
HEIGHT
2354
20-Jul-2023
15:04
linh
pham



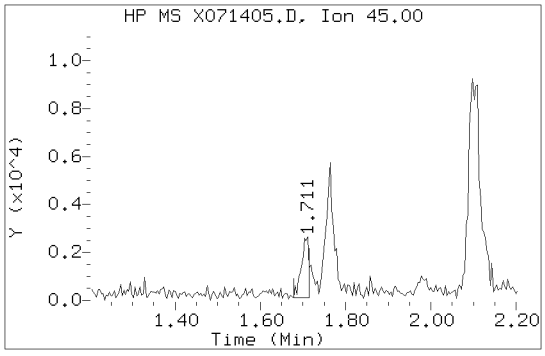
Ethanol (64-17-5)

Reason Code:

BEFORE
MASS
45
AREA
3219
HEIGHT
2559
20-Jul-2023
15:04
linh
pham



AFTER
MASS
45
AREA
3219
HEIGHT
2559
20-Jul-2023
15:04
linh
pham



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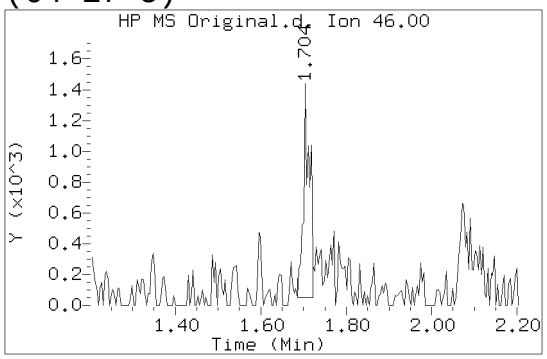
Inj Date : 14-JUL-2023 13:23
InstruID : voa6.i
LabSampID : VSTD002

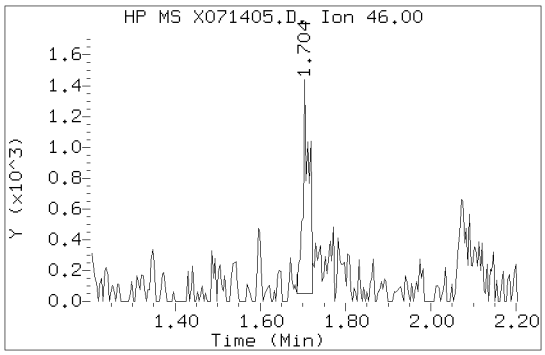
Ethanol (64-17-5)

Reason Code:

BEFORE
MASS
46
AREA
1433
HEIGHT
1387
20-Jul-2023
15:04
linh
pham



AFTER
MASS
46
AREA
1433
HEIGHT
1387
20-Jul-2023
15:04
linh
pham



BEFORE
MASS
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1776
HEIGHT
1290
20-Jul-2023
15:04
linh
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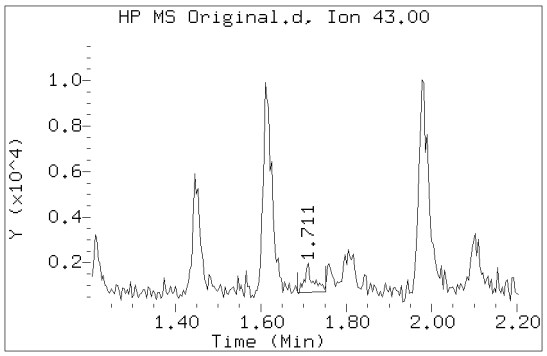

AFTER
MASS
43
AREA
1776
HEIGHT
1290
20-Jul-2023
15:04
linh
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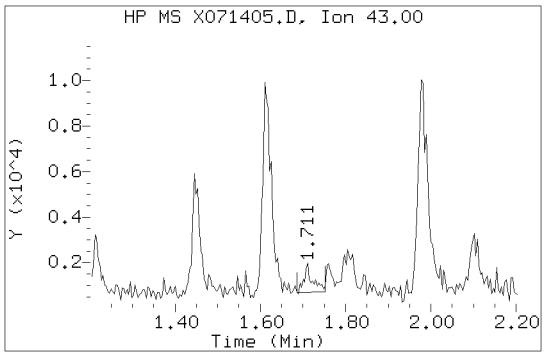

tert-Butyl formate (762-75-4)

Reason Code:

BEFORE
MASS
59
AREA
23857
HEIGHT
11486
20-Jul-2023
15:04
linh
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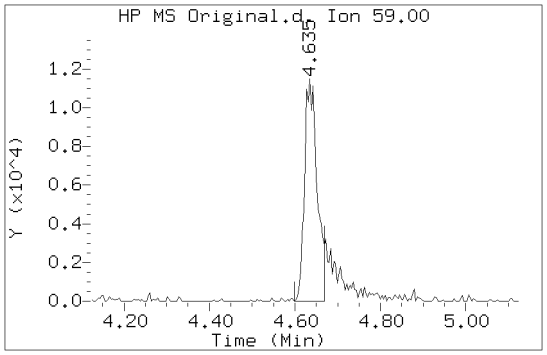
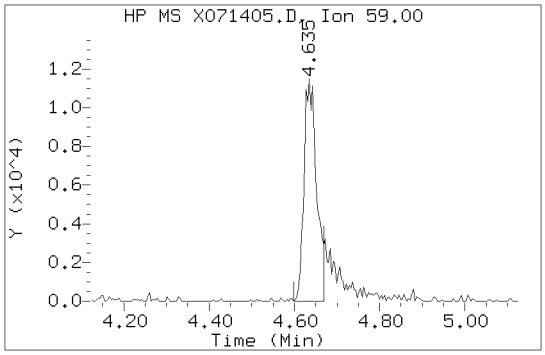
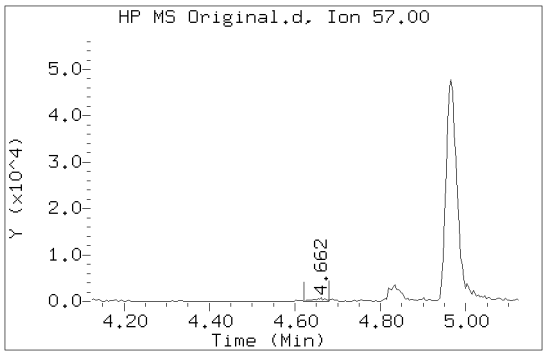


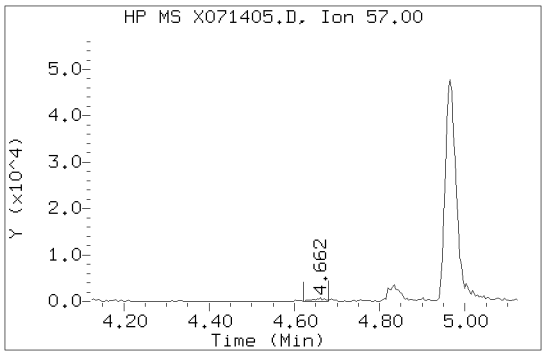
AFTER
MASS
59
AREA
23857
HEIGHT
11486
20-Jul-2023
15:04
linh
pham



BEFORE
MASS
57
AREA
1334
HEIGHT
778
20-Jul-2023
15:04
linh
pham



AFTER
MASS
57
AREA
1334
HEIGHT
778
20-Jul-2023
15:04
linh
pham



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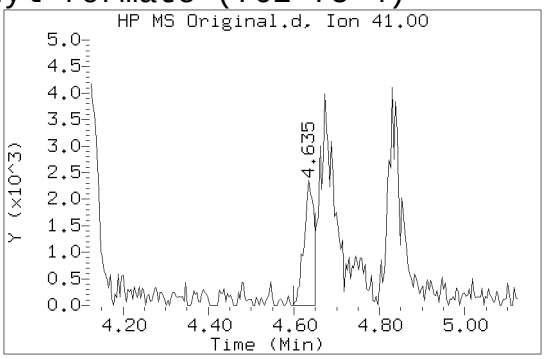
Inj Date : 14-JUL-2023 13:23
InstruID : voa6.i
LabSampID : VSTD002

tert-Butyl formate (762-75-4)

Reason Code:

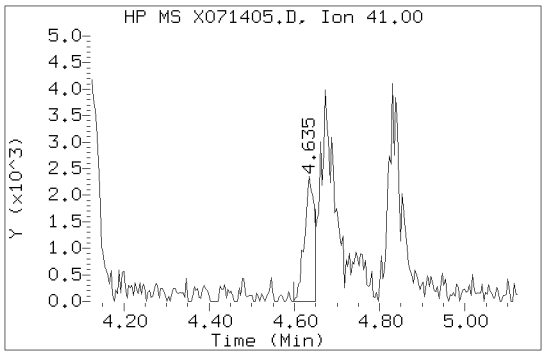
BEFORE

MASS
41
AREA
3833
HEIGHT
2355
20-Jul-2023
15:04
linh
pham



AFTER

MASS
41
AREA
3833
HEIGHT
2355
20-Jul-2023
15:04
linh
pham

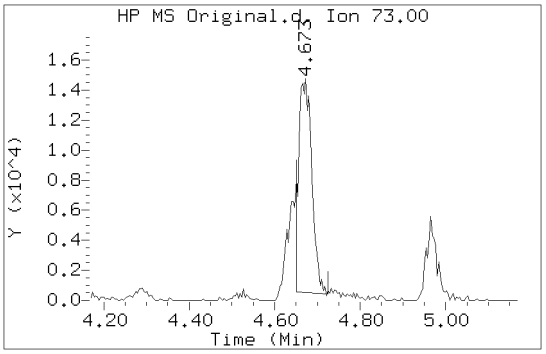


tert-Amyl methyl ether (974-05-08)

Reason Code:

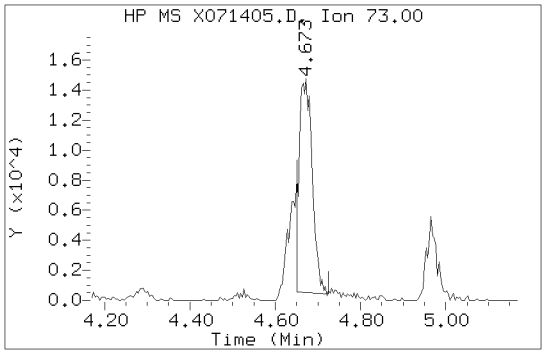
BEFORE

MASS
73
AREA
31345
HEIGHT
14253
20-Jul-2023
15:04
linh
pham



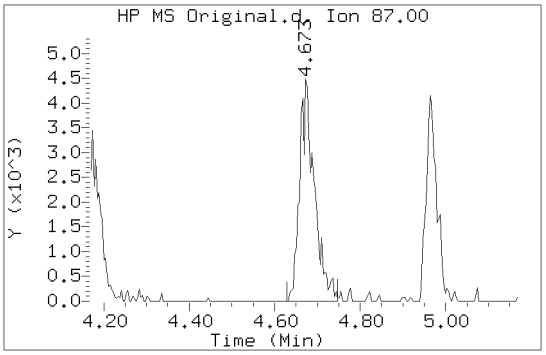
AFTER

MASS
73
AREA
31345
HEIGHT
14253
20-Jul-2023
15:04
linh
pham



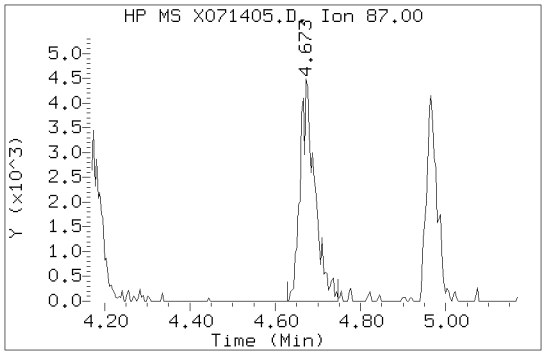
BEFORE

MASS
87
AREA
10923
HEIGHT
4489
20-Jul-2023
15:04
linh
pham



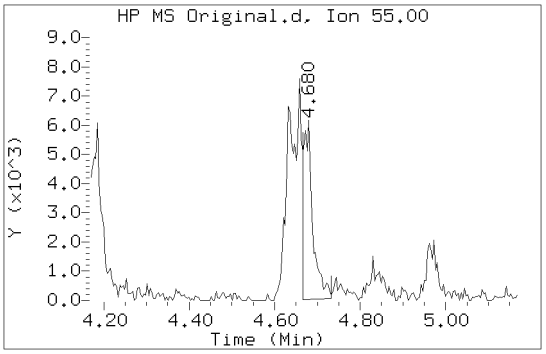
AFTER

MASS
87
AREA
10923
HEIGHT
4489
20-Jul-2023
15:04
linh
pham



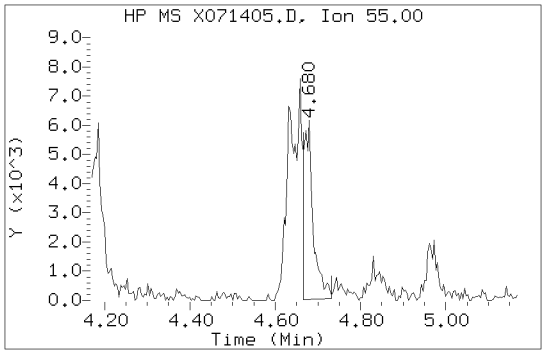
BEFORE

MASS
55
AREA
9755
HEIGHT
6135
20-Jul-2023
15:04
linh
pham



AFTER

MASS
55
AREA
9755
HEIGHT
6135
20-Jul-2023
15:04
linh
pham



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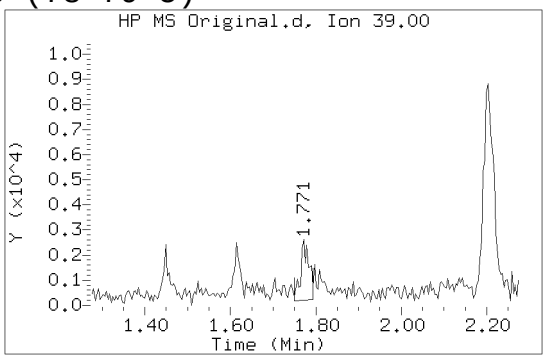
Inj Date : 14-JUL-2023 13:23
InstruID : voa6.i
LabSampID : VSTD002

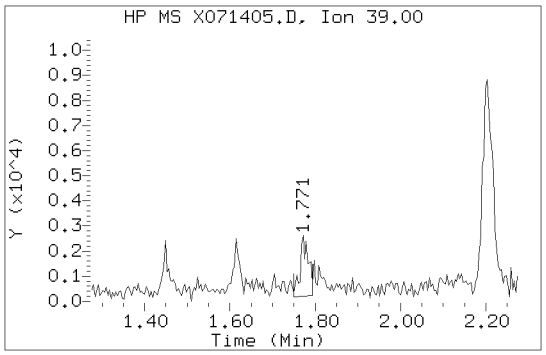
Isoprene (78-79-5)

Reason Code:

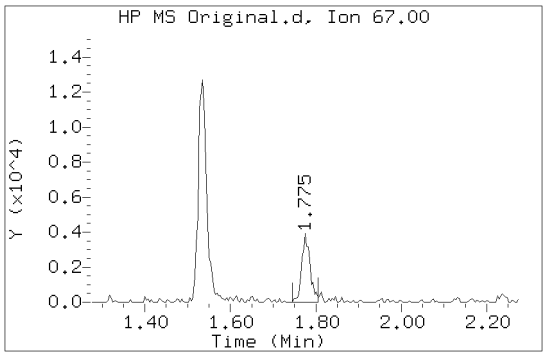
BEFORE
MASS
39
AREA
3408
HEIGHT
2427
20-Jul-2023
15:04
linh
pham



AFTER
MASS
39
AREA
3408
HEIGHT
2427
20-Jul-2023
15:04
linh
pham



BEFORE
MASS
67
AREA
5482
HEIGHT
3925
20-Jul-2023
15:04
linh
pham



AFTER
MASS
67
AREA
5482
HEIGHT
3925
20-Jul-2023
15:04
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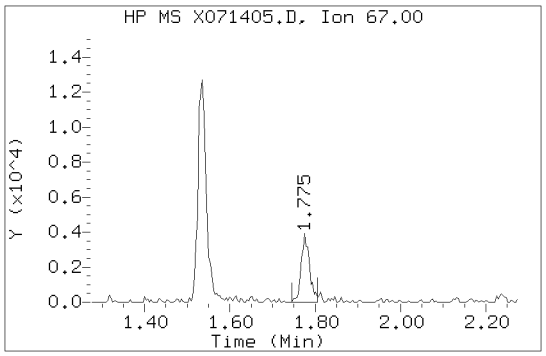

BEFORE
MASS
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20-Jul-2023
15:04
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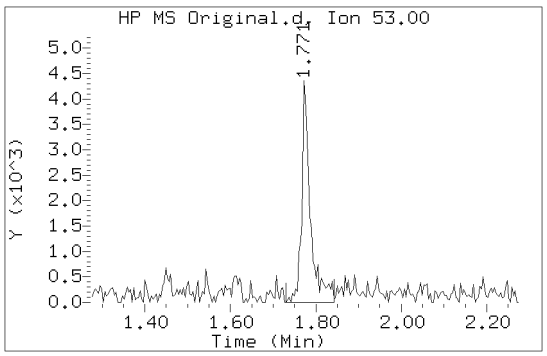

AFTER
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53
AREA
6318
HEIGHT
4358
20-Jul-2023
15:04
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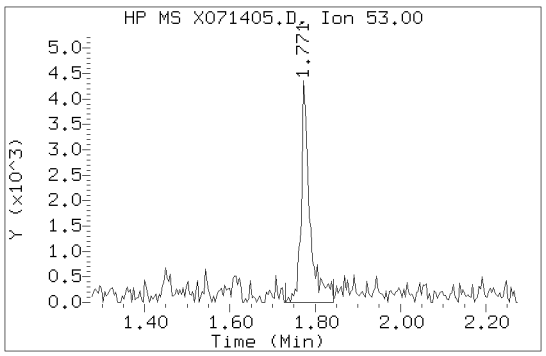

n-Amyl acetate (628-63-7)

Reason Code:

BEFORE
MASS
43
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26886
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12364
20-Jul-2023
15:04
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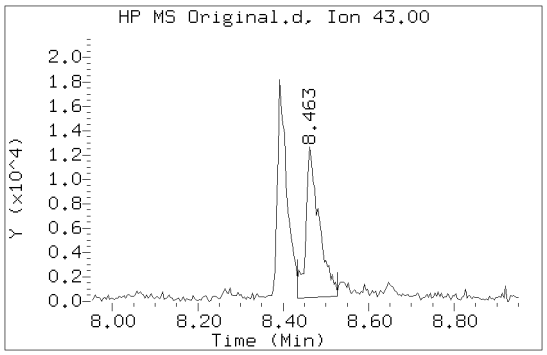
pham



AFTER
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AREA
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HEIGHT
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20-Jul-2023
15:04
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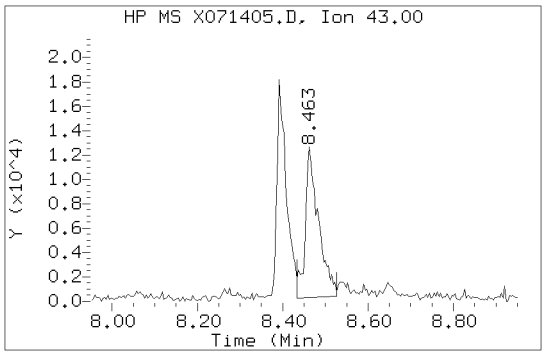
pham



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Inj Date : 14-JUL-2023 13:23
InstruID : voa6.i
LabSampID : VSTD002

n-Amyl acetate (628-63-7)

Reason Code:

BEFORE
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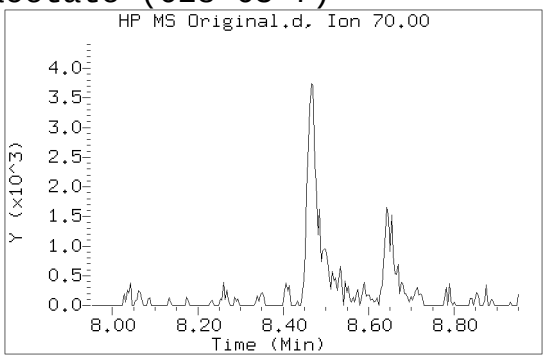
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham



AFTER
MASS
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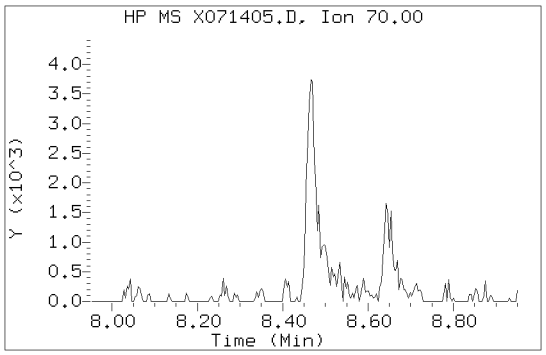
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham



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HEIGHT
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20-Jul-2023
15:04
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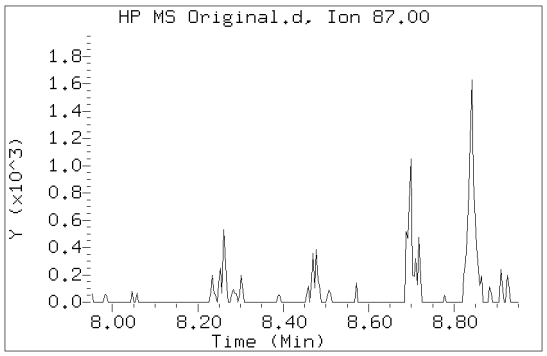
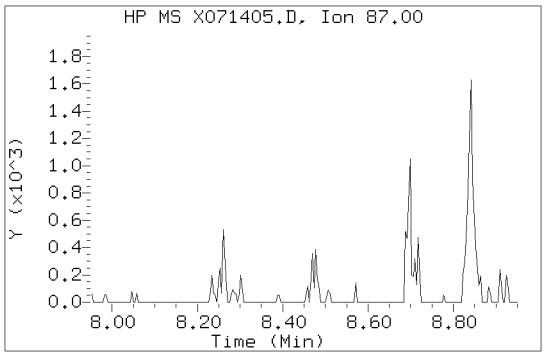
pham



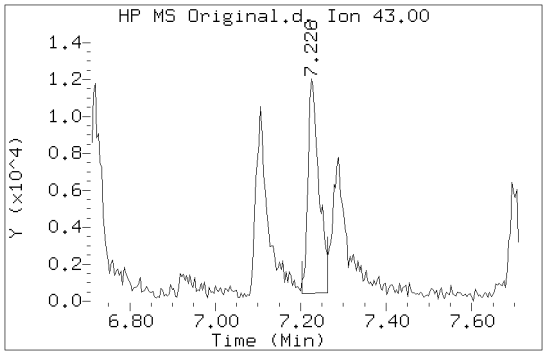
AFTER
MASS
87
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham



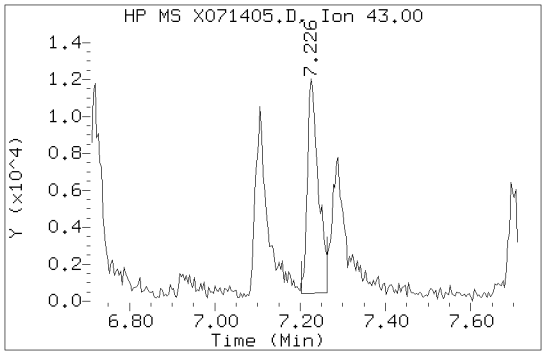
n-Butyl acetate (123-86-4)

Reason Code:

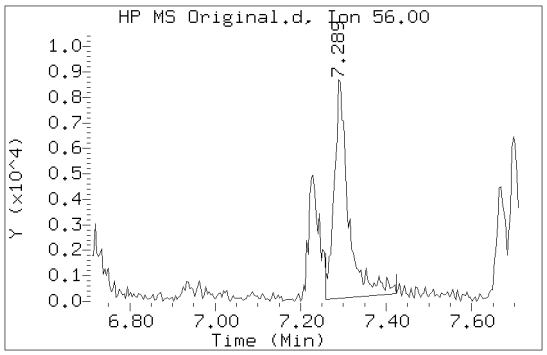
BEFORE
MASS
43
AREA
20825
HEIGHT
11598
20-Jul-2023
15:04
linh
pham



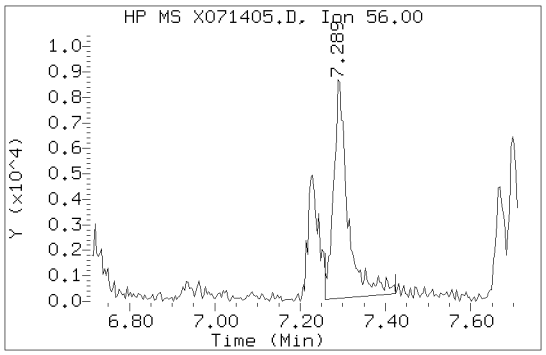
AFTER
MASS
43
AREA
20825
HEIGHT
11598
20-Jul-2023
15:04
linh
pham



BEFORE
MASS
56
AREA
20012
HEIGHT
8570
20-Jul-2023
15:04
linh
pham



AFTER
MASS
56
AREA
20012
HEIGHT
8570
20-Jul-2023
15:04
linh
pham



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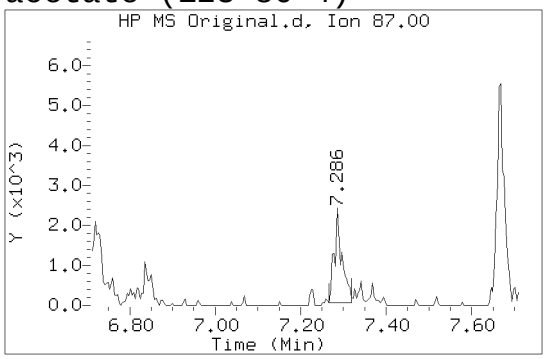
Inj Date : 14-JUL-2023 13:23
InstruID : voa6.i
LabSampID : VSTD002

n-Butyl acetate (123-86-4)

Reason Code:

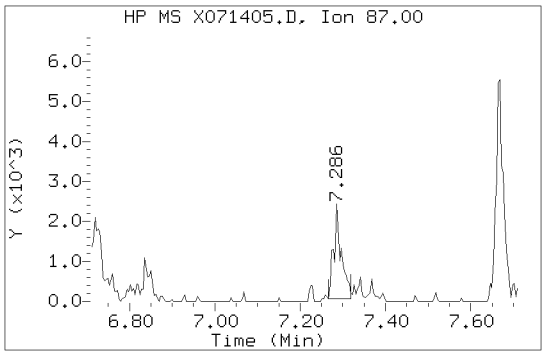
BEFORE

MASS
87
AREA
2958
HEIGHT
2373
20-Jul-2023
15:04
linh
pham



AFTER

MASS
87
AREA
2958
HEIGHT
2373
20-Jul-2023
15:04
linh
pham



Acetaldehyde (75-07-0)

Reason Code:

BEFORE

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44
AREA
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HEIGHT
5042
20-Jul-2023
15:04
linh
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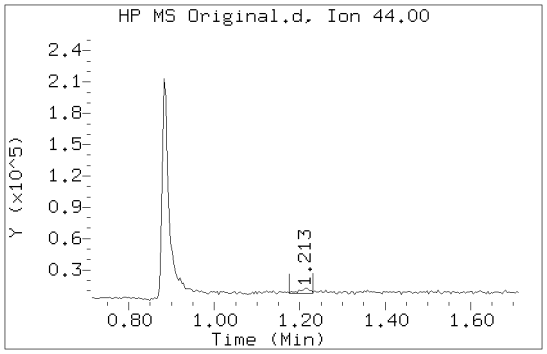

AFTER

MASS
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AREA
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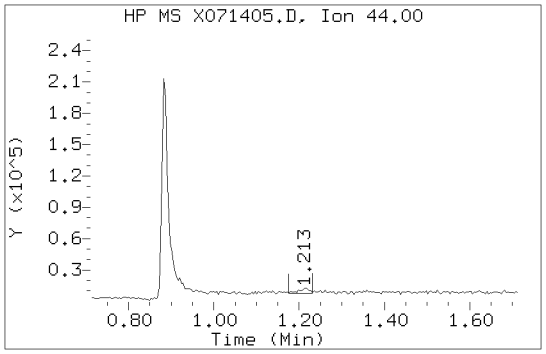
HEIGHT
5042
20-Jul-2023
15:04
linh
pham



BEFORE

MASS
43
AREA
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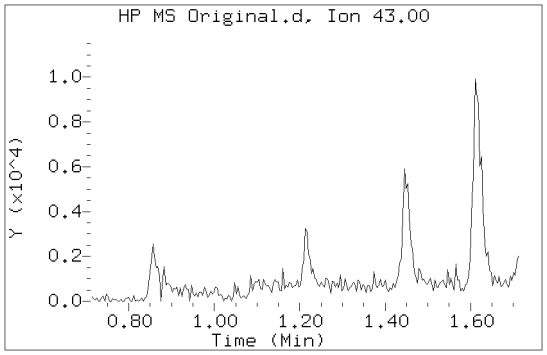
HEIGHT
0
20-Jul-2023
15:04
linh
pham



AFTER

MASS
43
AREA
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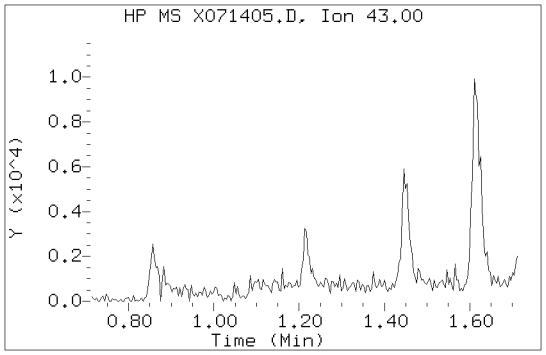
HEIGHT
0
20-Jul-2023
15:04
linh
pham



BEFORE

MASS
42
AREA
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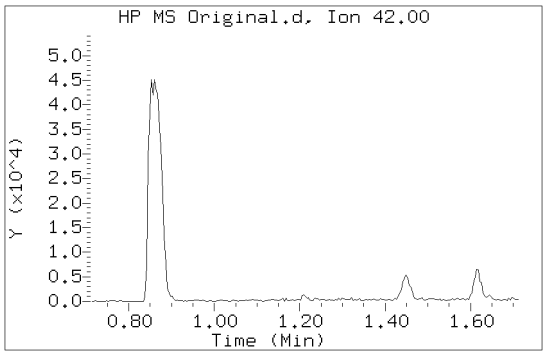
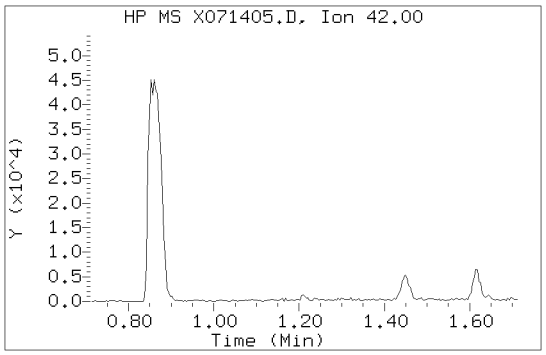
HEIGHT
0
20-Jul-2023
15:04
linh
pham



AFTER

MASS
42
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham



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Inj Date : 14-JUL-2023 13:23
InstruID : voa6.i
LabSampID : VSTD002

Isobutylene (115-11-7)

Reason Code:

BEFORE
MASS
41
AREA
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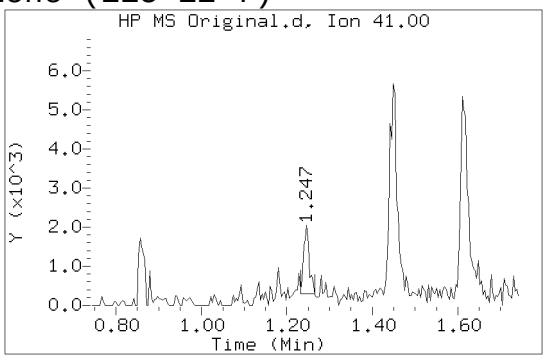
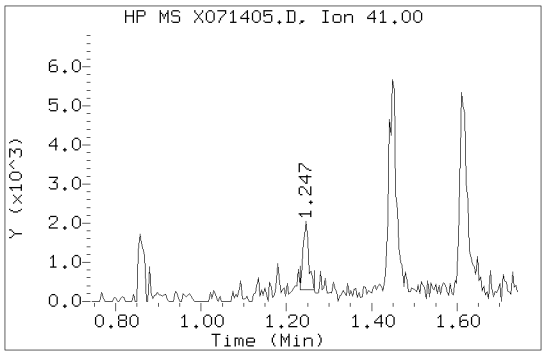
HEIGHT
1749
20-Jul-2023
15:04
linh
pham



AFTER
MASS
41
AREA
1654
HEIGHT
1749
20-Jul-2023
15:04
linh
pham



BEFORE
MASS
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AREA
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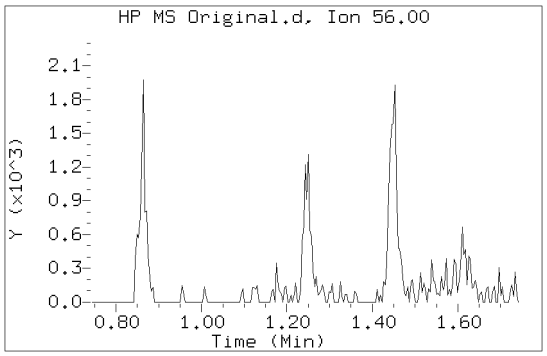
HEIGHT
0
20-Jul-2023
15:04
linh
pham



AFTER
MASS
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AREA
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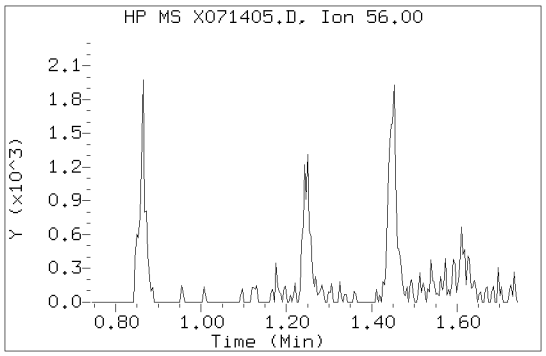
HEIGHT
0
20-Jul-2023
15:04
linh
pham



BEFORE
MASS
84
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
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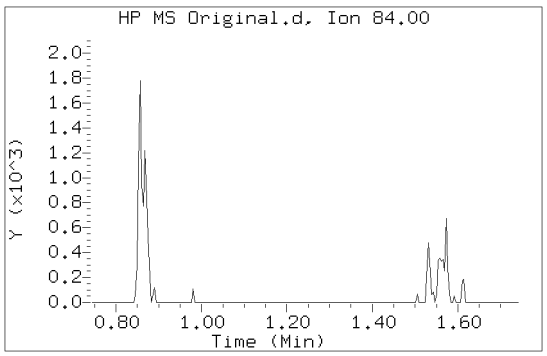

AFTER
MASS
84
AREA
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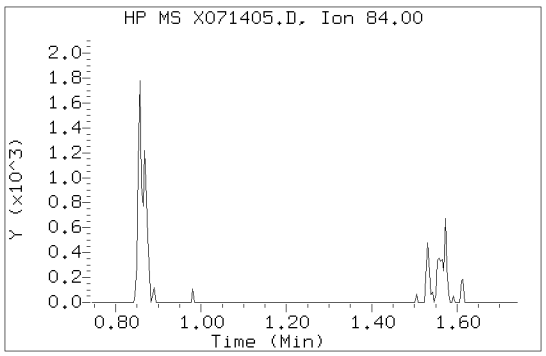
HEIGHT
0
20-Jul-2023
15:04
linh
pham



2-Ethylhexyl Acrylate (103-11-7)

Reason Code:

BEFORE
MASS
55
AREA
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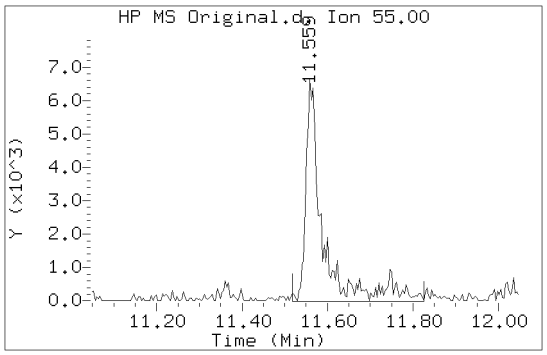
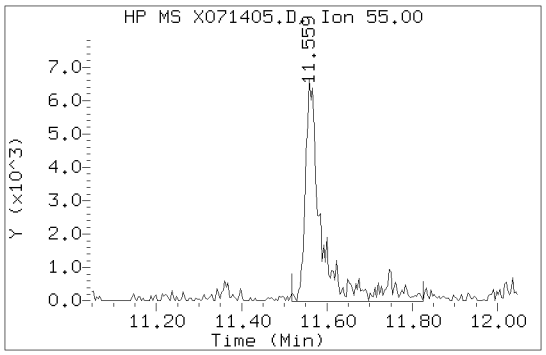
HEIGHT
6633
20-Jul-2023
15:04
linh
pham



AFTER
MASS
55
AREA
18101
HEIGHT
6633
20-Jul-2023
15:04
linh
pham



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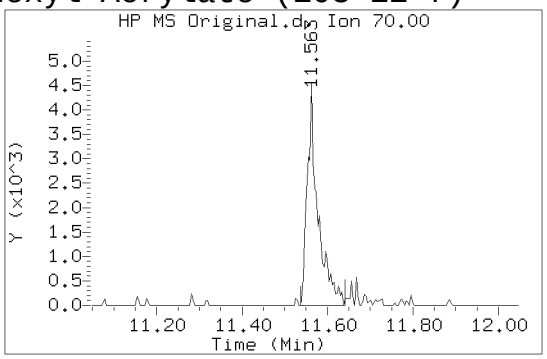
Inj Date : 14-JUL-2023 13:23
InstruID : voa6.i
LabSampID : VSTD002

2-Ethylhexyl Acrylate (103-11-7)

Reason Code:

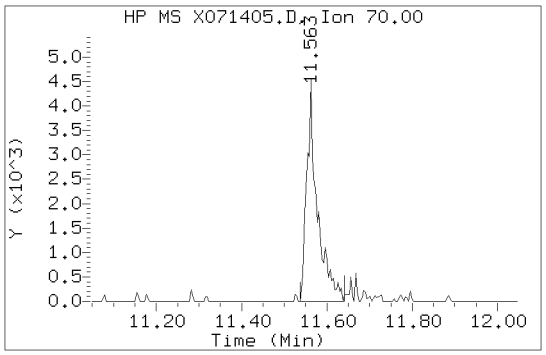
BEFORE

MASS
70
AREA
7844
HEIGHT
4538
20-Jul-2023
15:04
linh
pham



AFTER

MASS
70
AREA
7844
HEIGHT
4538
20-Jul-2023
15:04
linh
pham

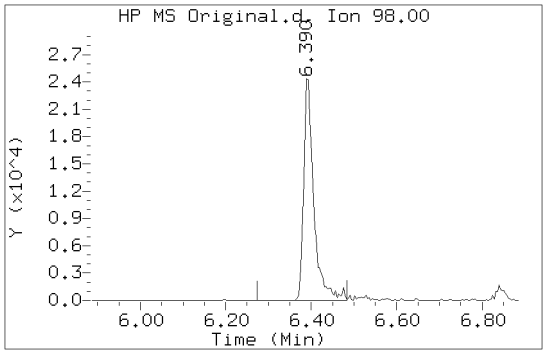


Toluene-d8 (2037-26-5)

Reason Code:

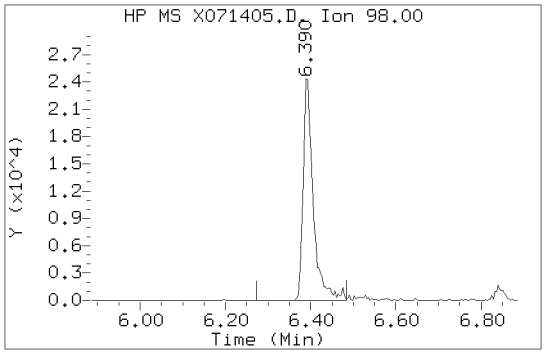
BEFORE

MASS
98
AREA
41058
HEIGHT
24360
20-Jul-2023
15:04
linh
pham



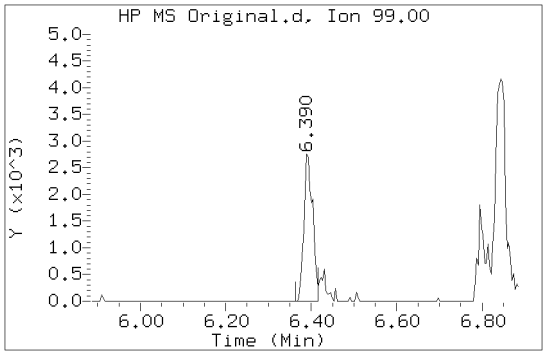
AFTER

MASS
98
AREA
41058
HEIGHT
24360
20-Jul-2023
15:04
linh
pham



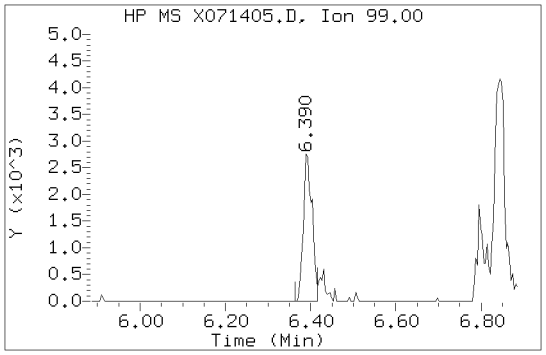
BEFORE

MASS
99
AREA
4023
HEIGHT
2761
20-Jul-2023
15:04
linh
pham



AFTER

MASS
99
AREA
4023
HEIGHT
2761
20-Jul-2023
15:04
linh
pham



BEFORE

MASS
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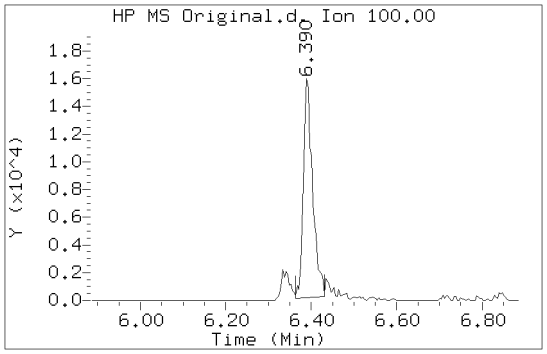
AREA
24373
HEIGHT
15816
20-Jul-2023
15:04
linh
pham



AFTER

MASS
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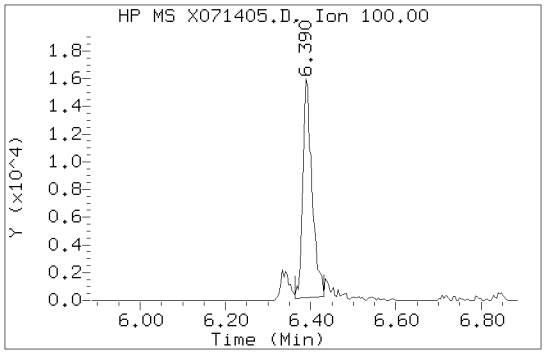
AREA
24373
HEIGHT
15816
20-Jul-2023
15:04
linh
pham



ALS Laboratory Group

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Inj Date : 14-JUL-2023 13:43
Operator : PC Inst ID: voa6.i
Smp Info : VSTD005;VSTD005;1;5;
Misc Info : V6;WATER;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\voa6.i\X230714.b\8260W.m
Meth Date : 20-Jul-2023 15:05 voa6.i Quant Type: ISTD
Cal Date : 14-JUL-2023 13:23 Cal File: X071405.D
Als bottle: 7 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1	Pentafluorobenzene	168	4.177	4.177	(1.000)	515309	50.0000	
2	Dichlorodifluoromethane	85	0.976	0.976	(0.234)	21541	5.00000	5.09
3	Chloromethane	50	1.081	1.081	(0.259)	35282	5.00000	4.53(M)
4	Propionitrile	54	3.671	3.671	(0.879)	48685	50.0000	47.69(a)
5	Vinyl Chloride	62	1.149	1.149	(0.275)	31539	5.00000	4.72
6	Bromomethane	94	1.343	1.343	(0.322)	13035	5.00000	4.72(M)
7	Chloroethane	64	1.407	1.407	(0.337)	17933	5.00000	4.71
8	Trichlorofluoromethane	101	1.565	1.565	(0.375)	30820	5.00000	4.56
9	Acrolein	56	1.868	1.868	(0.447)	2341	10.0000	12.99(aH)
10	Acetone	43	1.977	1.977	(0.473)	26152	10.0000	8.56
11	1,1-Dichloroethene	96	1.917	1.917	(0.459)	18372	5.00000	4.86
12	Isobutyl Alcohol	43	4.684	4.684	(1.121)	97691	100.000	100.01(a)
13	Acetonitrile	39	2.206	2.206	(0.528)	34072	50.0000	47.15(a)
14	Allyl Chloride	41	2.206	2.206	(0.528)	83408	5.00000	4.92(a)
15	Iodomethane	142	2.029	2.029	(0.486)	29645	10.0000	9.67(M)
16	Acrylonitrile	53	2.539	2.539	(0.608)	26399	10.0000	10.51
17	Methylene Chloride	84	2.307	2.307	(0.552)	25734	5.00000	4.52
18	Methyl tert-butyl ether	73	2.543	2.543	(0.609)	69208	5.00000	4.92
19	Carbon Disulfide	76	2.074	2.074	(0.497)	111855	10.0000	9.42
20	trans-1,2-Dichloroethene	96	2.532	2.532	(0.606)	22471	5.00000	5.14

21 Vinyl Acetate	43	3.008	3.008 (0.720)	178820	10.0000	9.90
22 1,1-Dichloroethane	63	2.925	2.925 (0.700)	46539	5.00000	4.85

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	23 Chloroprene	53	1.778	1.778	(0.426)	11212	5.00000	4.83(aM)
	24 2-Butanone	43	3.608	3.608	(0.864)	25624	10.0000	9.33(M)
	25 Methacrylonitrile	41	3.848	3.848	(0.921)	30821	5.00000	4.63(a)
	26 2,2-Dichloropropane	77	3.506	3.506	(0.839)	34523	5.00000	4.82
	27 cis-1,2-Dichloroethene	96	3.529	3.529	(0.845)	27063	5.00000	4.86
	28 Chloroform	83	3.908	3.908	(0.935)	45886	5.00000	4.67
	29 Bromochloromethane	128	3.803	3.803	(0.910)	15326	5.00000	4.91
$	30 Dibromofluoromethane	113	4.102	4.102	(0.982)	26145	5.00000	4.85
	31 1,1,1-Trichloroethane	97	4.076	4.076	(0.976)	34806	5.00000	4.61
	32 1,1-Dichloropropene	75	4.282	4.282	(0.863)	28199	5.00000	4.24
	33 1,2-Dichloroethane	62	4.564	4.564	(0.919)	41945	5.00000	4.67
	34 Carbon Tetrachloride	117	4.264	4.264	(0.859)	30432	5.00000	4.54
$	35 1,2-Dichloroethane-d4	65	4.477	4.477	(1.072)	31653	5.00000	4.80
*	36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	815041	50.0000	
	37 Benzene	78	4.515	4.515	(0.909)	91790	5.00000	4.70
	38 Trichloroethene	130	5.212	5.212	(1.050)	24824	5.00000	4.50(a)
	39 Bromodichloromethane	83	5.726	5.726	(1.153)	35030	5.00000	4.69(a)
	40 Methyl Methacrylate	41	5.617	5.617	(1.345)	30166	5.00000	4.85(a)
	41 2-Chloroethylvinyl ether	63	6.056	6.056	(1.220)	21401	10.0000	9.38(a)
	42 1,2-Dichloropropane	63	5.437	5.437	(1.095)	30550	5.00000	4.87(a)
	43 2-Nitropropane	43	5.981	5.981	(1.432)	8304	5.00000	4.05(a)
	44 Dibromomethane	93	5.557	5.557	(1.119)	16922	5.00000	4.76(a)
	45 4-Methyl-2-Pentanone	43	6.329	6.329	(0.825)	71437	10.0000	9.87
	46 cis-1,3-Dichloropropene	75	6.160	6.160	(1.241)	38467	5.00000	4.48(a)
*	47 Chlorobenzene-d5	117	7.667	7.667	(1.000)	735002	50.0000	
$	48 Toluene-d8	98	6.385	6.385	(0.833)	95273	5.00000	5.03(M)
	49 Ethyl Methacrylate	69	6.715	6.715	(1.353)	26485	5.00000	4.96(a)
	50 Toluene	91	6.445	6.445	(0.841)	96792	5.00000	4.89(a)
	51 trans-1,3-Dichloropropene	75	6.685	6.685	(1.347)	33424	5.00000	4.62(a)
	52 2-Hexanone	43	7.098	7.098	(0.926)	48930	10.0000	10.29
	53 1,1,2-Trichloroethane	83	6.843	6.843	(0.892)	20880	5.00000	4.97(a)
	54 1,3-Dichloropropane	76	6.981	6.981	(0.911)	43005	5.00000	5.01
	55 Dibromochloromethane	129	7.173	7.173	(0.935)	28644	5.00000	4.72(a)
	56 Tetrachloroethene	164	6.929	6.929	(0.904)	19962	5.00000	4.88(a)
	57 1,2-Dibromoethane	107	7.263	7.263	(0.947)	25723	5.00000	5.36
	58 1-Chlorohexane	55	7.697	7.697	(1.550)	29679	5.00000	4.53(a)
	59 Chlorobenzene	112	7.694	7.694	(1.003)	65984	5.00000	4.77(a)
	60 1,1,1,2-Tetrachloroethane	131	7.776	7.776	(1.014)	25299	5.00000	4.67(a)
	61 Ethylbenzene	106	7.799	7.799	(1.017)	32420	5.00000	4.67(a)
	62 m,p-Xylenes	106	7.907	7.907	(1.031)	79790	10.0000	9.17(a)
	63 o-Xylene	106	8.241	8.241	(1.075)	37444	5.00000	4.54(a)
	64 Styrene	104	8.267	8.267	(1.078)	65591	5.00000	4.56(a)
	66 Bromoform	173	8.413	8.413	(1.097)	17937	5.00000	4.61(a)
	67 Isopropylbenzene	105	8.560	8.560	(1.116)	96601	5.00000	4.56(a)
	68 1,1,2,2-Tetrachloroethane	83	8.837	8.837	(0.915)	33128	5.00000	5.01
$	69 4-Bromofluorobenzene	95	8.691	8.691	(1.133)	40007	5.00000	5.08
*	70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	393512	50.0000	
	71 1,2,3-Trichloropropane	75	8.863	8.863	(0.917)	27801	5.00000	5.30
	72 trans-1,4-Dichloro-2-butene	53	8.893	8.893	(1.160)	9958	5.00000	4.45(aM)
	73 n-Propylbenzene	91	8.912	8.912	(0.922)	105135	5.00000	4.42(a)
	74 Bromobenzene	156	8.811	8.811	(0.912)	30146	5.00000	4.89(a)
	75 1,3,5-Trimethylbenzene	105	9.066	9.066	(0.938)	77581	5.00000	4.35(a)

76	2-Chlorotoluene	91	8.972	8.972 (0.929)	73357	5.00000	4.57(a)
77	4-Chlorotoluene	91	9.073	9.073 (0.939)	83281	5.00000	4.72(a)

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230714.b\X071406.D Page 3
Report Date: 20-Jul-2023 15:05

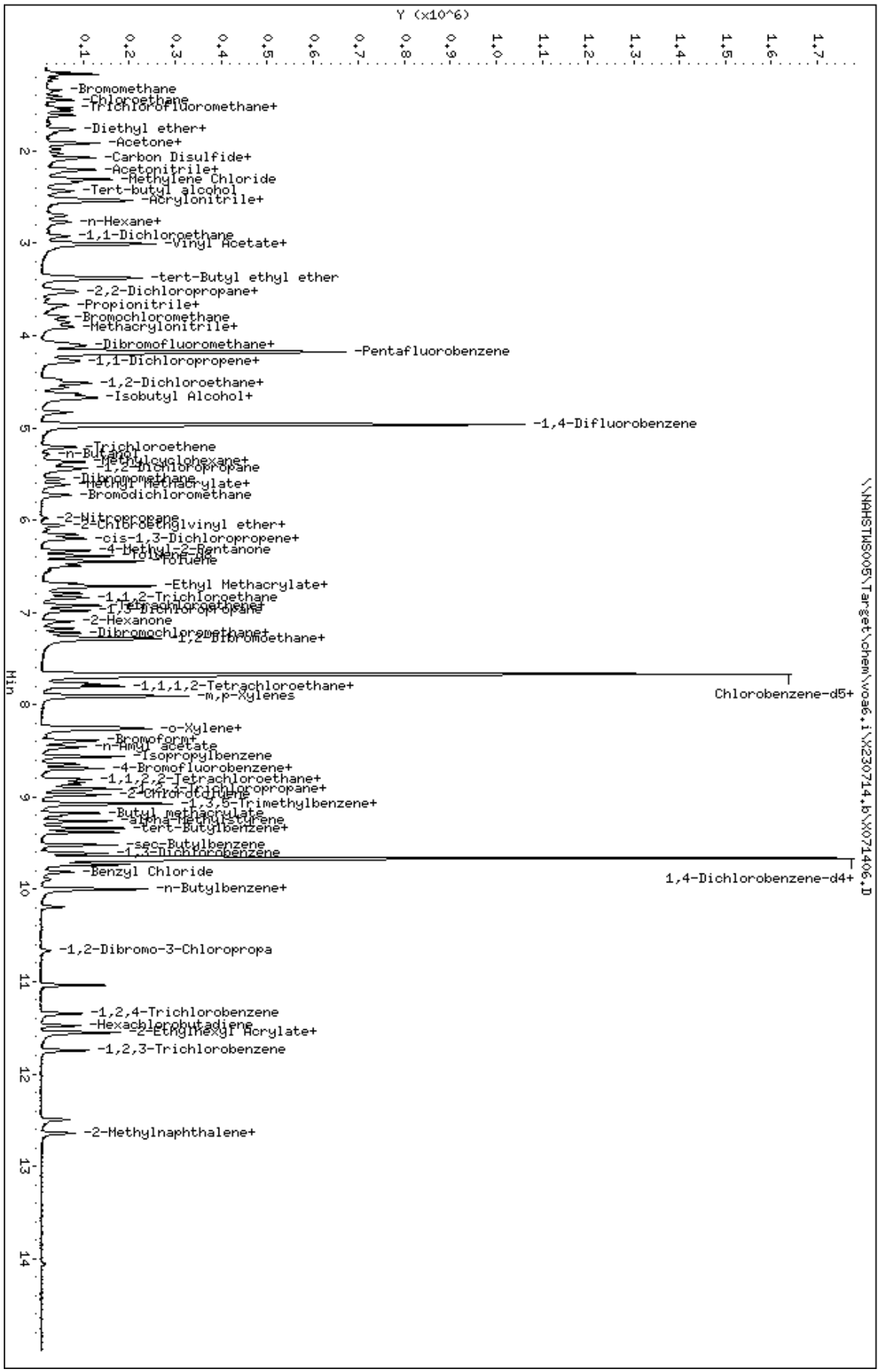
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
78	tert-Butylbenzene	119	9.336	9.336	(0.966)	68497	5.00000	4.48(a)
79	1,2,4-Trimethylbenzene	105	9.381	9.381	(0.971)	75897	5.00000	4.24(a)
81	sec-Butylbenzene	105	9.519	9.519	(0.985)	89261	5.00000	4.38(a)
82	p-Isopropyltoluene	119	9.647	9.647	(0.998)	80480	5.00000	4.32(a)
83	1,3-Dichlorobenzene	146	9.609	9.609	(0.995)	48860	5.00000	4.55(a)
84	1,4-Dichlorobenzene	146	9.680	9.680	(1.002)	56875	5.00000	4.83(a)
86	Benzyl Chloride	91	9.815	9.815	(1.280)	45616	5.00000	5.82(M)
87	n-Butylbenzene	91	9.995	9.995	(1.035)	67203	5.00000	4.31(a)
88	1,2-Dichlorobenzene	146	9.995	9.995	(1.035)	49668	5.00000	4.71(a)
89	1,2-Dibromo-3-Chloropropane	155	10.659	10.659	(1.103)	5268	5.00000	5.83(M)
90	1,2,4-Trichlorobenzene	180	11.349	11.349	(1.175)	33646	5.00000	4.64(aM)
91	Hexachlorobutadiene	225	11.476	11.476	(1.188)	13714	5.00000	6.27
92	Naphthalene	128	11.551	11.551	(1.196)	85025	5.00000	4.74(aM)
93	1,2,3-Trichlorobenzene	180	11.742	11.742	(1.215)	30270	5.00000	4.47(a)
146	Methyl acetate	43	2.236	2.236	(0.535)	23616	5.00000	5.14
138	Freon TF	101	1.921	1.921	(0.460)	16656	5.00000	5.27
141	Cyclohexane	56	4.121	4.121	(0.987)	39083	5.00000	4.37(aH)
142	Tetrahydrofuran	42	3.863	3.863	(0.925)	12650	10.0000	9.54
147	Methylcyclohexane	55	5.399	5.399	(1.088)	84656	5.00000	4.92(aM)
135	1,4-Dioxane	88	5.617	5.617	(1.345)	6551	100.000	106.98(M)
132	n-Butanol	56	5.287	5.287	(1.266)	13588	100.000	79.21(aM)
131	Methyl Acrylate	55	3.716	3.716	(0.890)	33338	5.00000	4.75(aMH)
133	Ethyl Acrylate	55	5.399	5.399	(1.293)	82574	5.00000	4.83(M)
136	n-Hexane	57	2.775	2.775	(0.664)	26276	5.00000	5.21
139	Diethyl ether	59	1.763	1.763	(0.422)	23219	5.00000	4.83(a)
148	Tert-butyl alcohol	59	2.434	2.434	(0.583)	63493	100.000	97.62
149	Isopropyl alcohol	45	2.101	2.101	(0.503)	37998	100.000	94.15
156	Diisopropyl ether	45	3.008	3.008	(0.720)	98591	5.00000	4.64(Ta)
166	1,2,3-Trimethylbenzene	105	9.729	9.729	(1.007)	83294	5.00000	4.57(a)
167	Ethanol	45	1.703	1.703	(0.408)	7997	100.000	94.37
172	tert-Butyl formate	59	4.627	4.627	(1.108)	54968	10.0000	9.98
173	3,3-Dimethyl-1-butanol	57	7.289	7.289	(0.951)	78844	100.000	99.74
174	tert-Amyl methyl ether	73	4.669	4.669	(1.118)	83517	5.00000	4.92(aM)
175	tert-Butyl ethyl ether	59	3.379	3.379	(0.809)	109587	5.00000	5.02
176	tert-Amyl alcohol	59	4.627	4.627	(1.108)	54968	100.000	97.64
151	4-Methyl-2-pentanol	45	6.715	6.715	(1.353)	183123	100.000	104.84(M)
180	1-Methylnaphthalene	142	12.642	12.642	(1.308)	33519	5.00000	(a)
140	1,3-Butadiene	54	1.167	1.167	(0.280)	30818	5.00000	4.65(a)
152	Amyl alcohol	42	6.921	6.921	(0.903)	21498	100.000	101.70(M)
158	Dichlorofluoromethane	67	1.535	1.535	(0.367)	38837	5.00000	4.67
159	Propylene oxide	43	1.808	1.808	(0.433)	7637	10.0000	12.08
161	3-Methyl-1-butanol	55	6.921	6.921	(0.903)	17029	100.000	94.10(M)
162	Butyl acrylate	55	8.256	8.256	(1.077)	63254	5.00000	4.52(a)
163	Butyl methacrylate	41	9.178	9.178	(0.950)	44524	5.00000	4.72(a)
164	Dicyclopentadiene	66	9.680	9.680	(1.002)	101741	5.00000	4.48(a)
182	Epichlorohydrin	57	6.104	6.104	(1.230)	11661	20.0000	19.15
M 94	1,2-Dichloroethylene (total)	96				49534	10.0000	(a)
130	Ethyl Acetate	43	3.679	3.679	(0.881)	39438	5.00000	5.15(M)
134	Cyclohexanone	55	8.646	8.646	(0.895)	36410	100.000	103.93(a)
185	Isoprene	39	1.775	1.775	(0.425)	9011	5.00000	5.30
188	Isopropyl acetate	43	4.684	4.684	(0.943)	98768	5.00000	4.59(a)
187	n-Amyl acetate	43	8.458	8.458	(1.103)	62876	5.00000	4.66(a)

189 n-Butyl acetate	43	7.221	7.221 (0.942)	54777	5.00000	4.86(aH)
150 Allyl alcohol	57	2.775	2.775 (0.664)	26276	100.000	102.36

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
194 Acetaldehyde	44	1.212	1.212	(0.290)	20987	20.0000	27.87(M)
195 Methyl Amyl Ketone	43	8.387	8.387	(1.094)	76515	5.00000	4.98(aH)
200 Dimethyl Disulfide	94	6.202	6.202	(0.809)	44165	5.00000	4.45(a)
202 Isobutylene	41	1.246	1.246	(0.298)	4070	5.00000	4.77(aM)
205 2-Ethylhexyl Acrylate	55	11.551	11.551	(1.196)	41733	5.00000	4.15(a)

QC Flag Legend

T - Target compound detected outside RT window.
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.



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Purge Volume: 5.0
Column phase: DB624

Instrument: voa6.i
Operator: PC
Column diameter: 0.18

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Chloromethane (74-87-3)

Reason Code:

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20-Jul-2023
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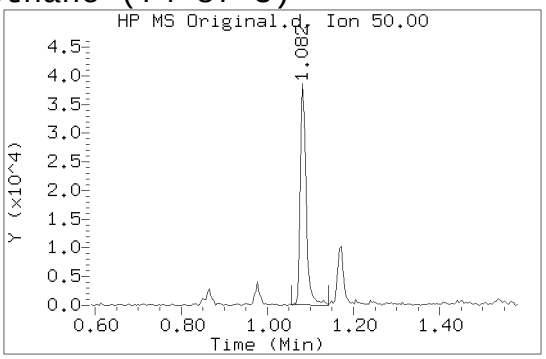

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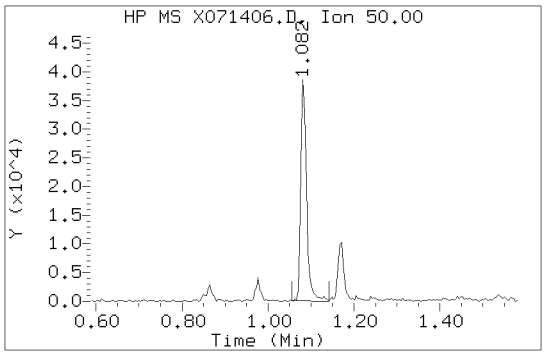

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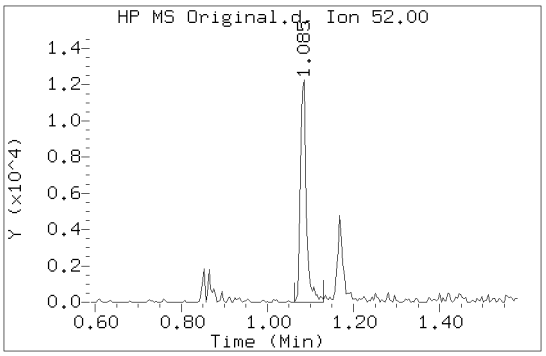

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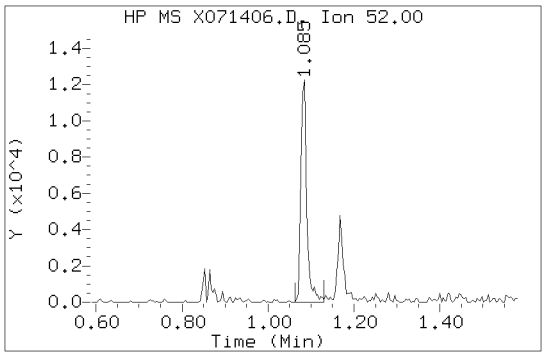

Bromomethane (74-83-9)

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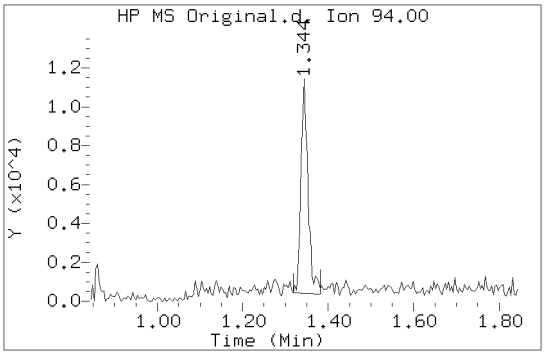

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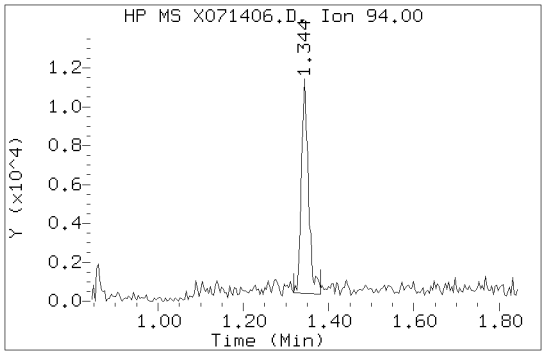

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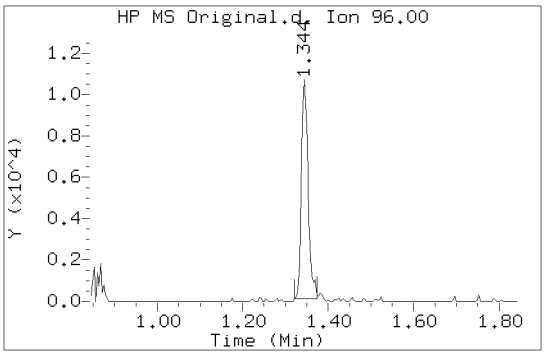

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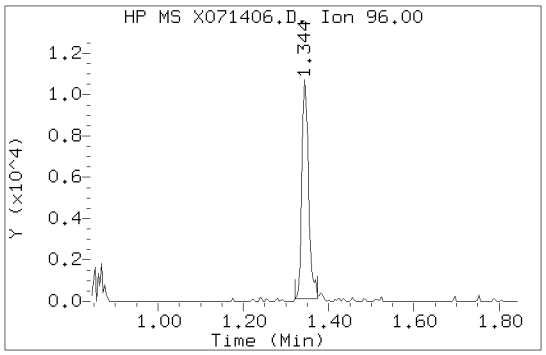

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Iodomethane (74-88-4)

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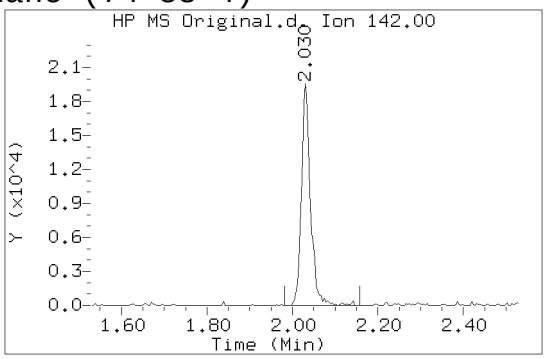

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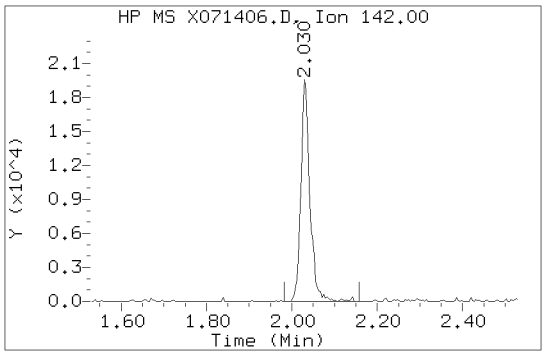

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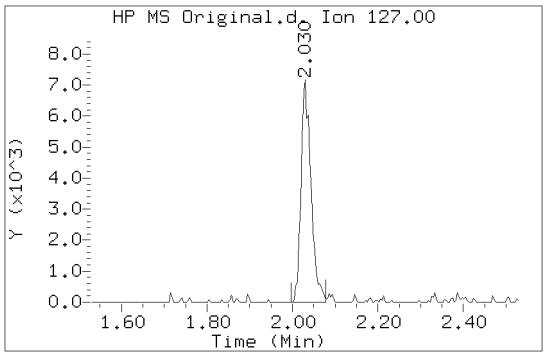

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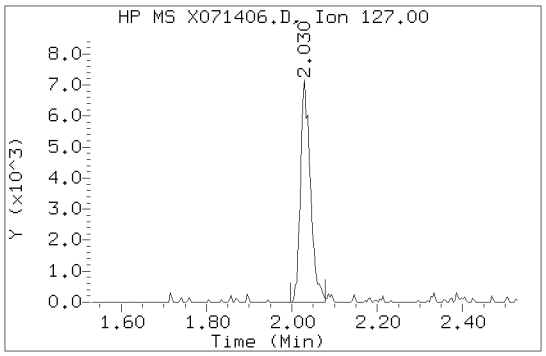

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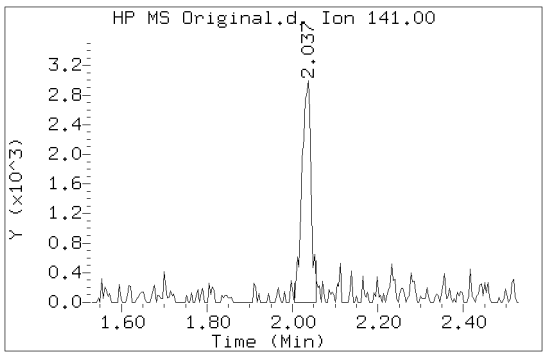
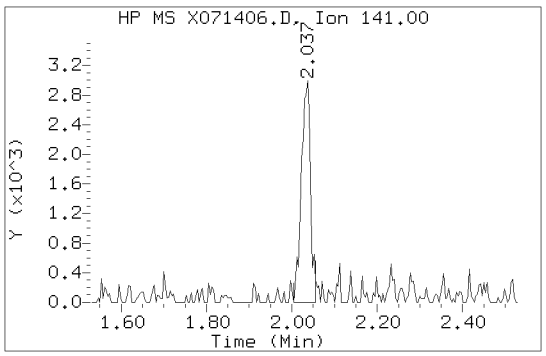
pham



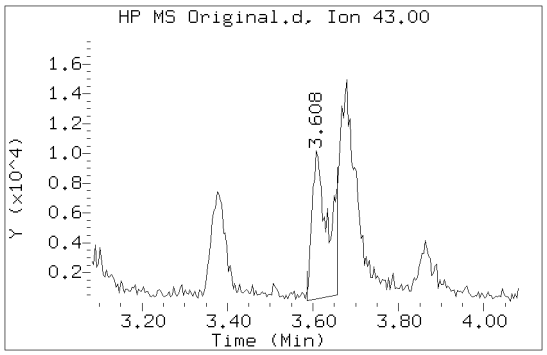
AFTER
MASS
141
AREA
4591
HEIGHT
2994
20-Jul-2023
15:04
linh
pham



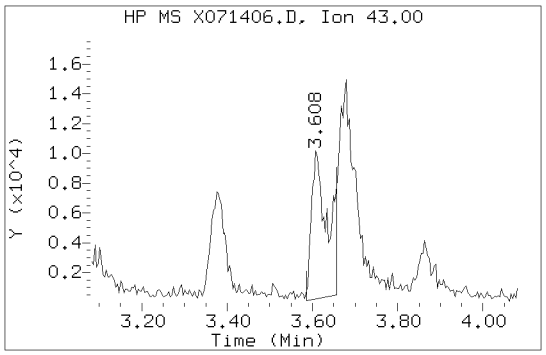
2-Butanone (78-93-3)

Reason Code:

BEFORE
MASS
43
AREA
25624
HEIGHT
9920
20-Jul-2023
15:04
linh
pham



AFTER
MASS
43
AREA
25624
HEIGHT
9920
20-Jul-2023
15:04
linh
pham



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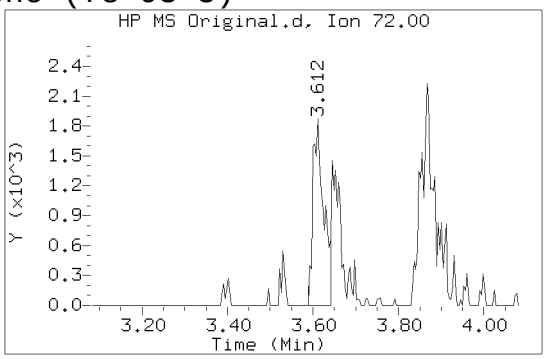
Inj Date : 14-JUL-2023 13:43
InstruID : voa6.i
LabSampID : VSTD005

2-Butanone (78-93-3)

Reason Code:

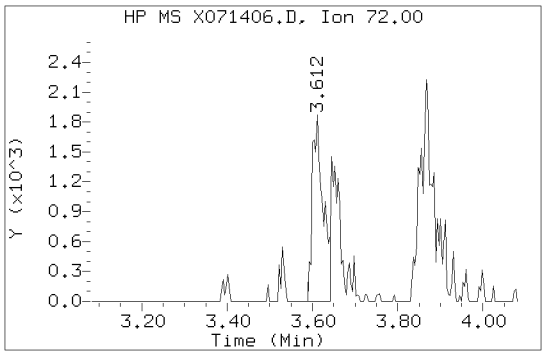
BEFORE

MASS
72
AREA
3309
HEIGHT
1873
20-Jul-2023
15:04
linh
pham



AFTER

MASS
72
AREA
3309
HEIGHT
1873
20-Jul-2023
15:04
linh
pham

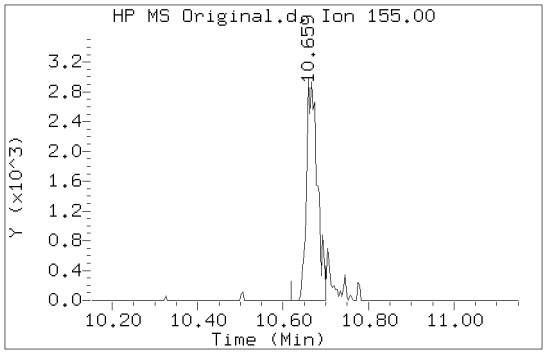


1,2-Dibromo-3-Chloropropane (96-12-8)

Reason Code:

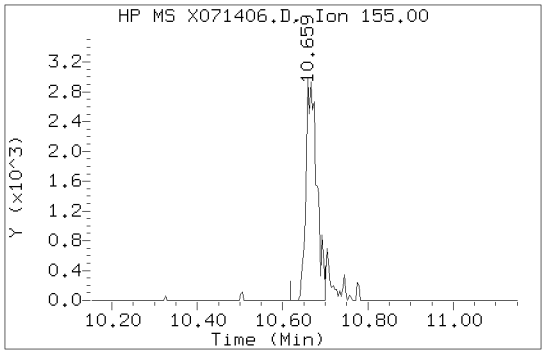
BEFORE

MASS
155
AREA
5268
HEIGHT
2977
20-Jul-2023
15:04
linh
pham



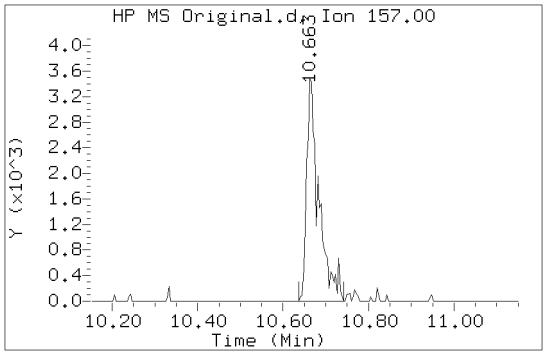
AFTER

MASS
155
AREA
5268
HEIGHT
2977
20-Jul-2023
15:04
linh
pham



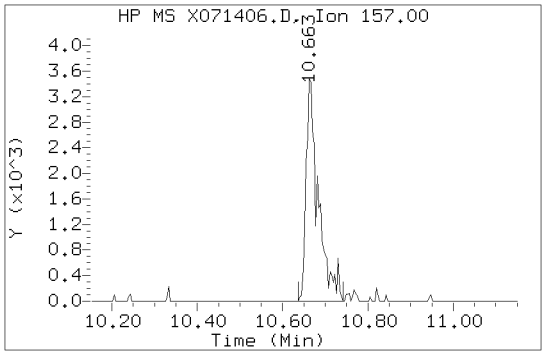
BEFORE

MASS
157
AREA
6914
HEIGHT
3477
20-Jul-2023
15:04
linh
pham



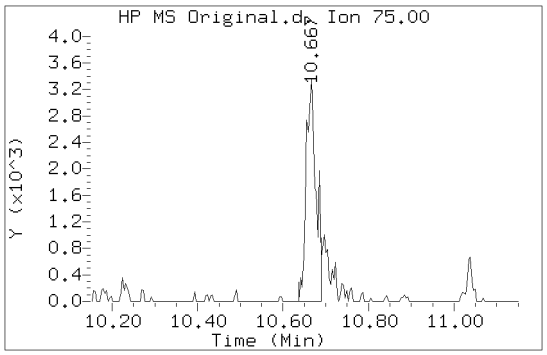
AFTER

MASS
157
AREA
6914
HEIGHT
3477
20-Jul-2023
15:04
linh
pham



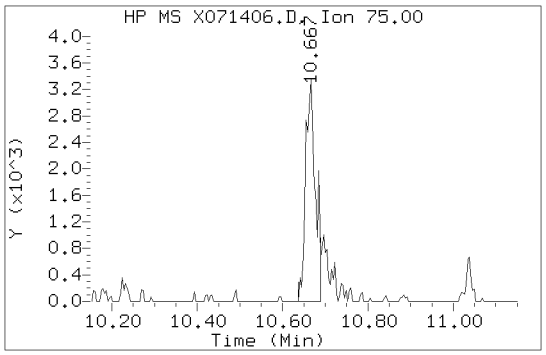
BEFORE

MASS
75
AREA
5387
HEIGHT
3348
20-Jul-2023
15:04
linh
pham



AFTER

MASS
75
AREA
5387
HEIGHT
3348
20-Jul-2023
15:04
linh
pham



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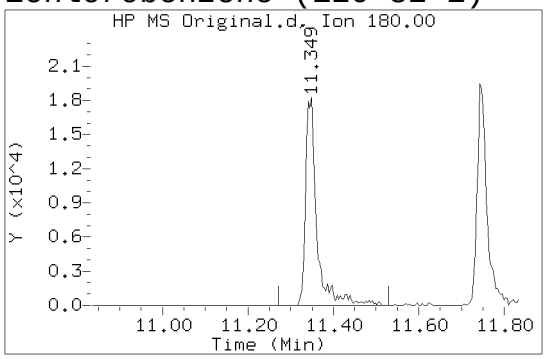
Inj Date : 14-JUL-2023 13:43
InstruID : voa6.i
LabSampID : VSTD005

1,2,4-Trichlorobenzene (120-82-1)

Reason Code:

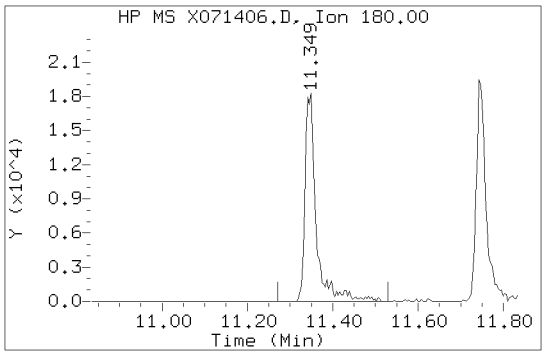
BEFORE

MASS
180
AREA
33646
HEIGHT
18264
20-Jul-2023
15:04
linh
pham



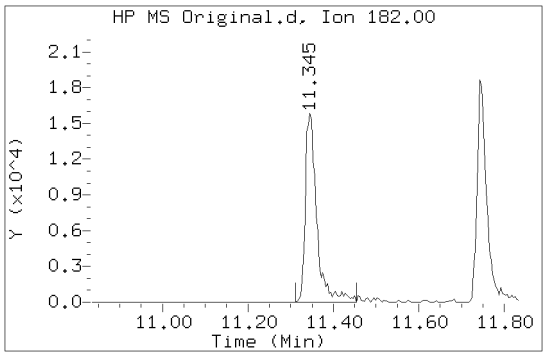
AFTER

MASS
180
AREA
33646
HEIGHT
18264
20-Jul-2023
15:04
linh
pham



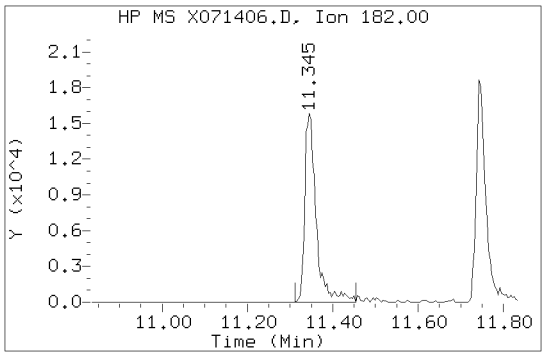
BEFORE

MASS
182
AREA
29855
HEIGHT
15861
20-Jul-2023
15:04
linh
pham



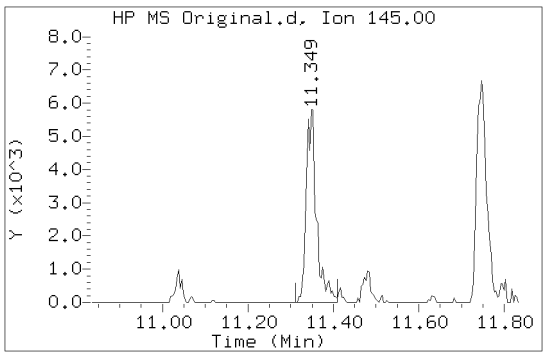
AFTER

MASS
182
AREA
29855
HEIGHT
15861
20-Jul-2023
15:04
linh
pham



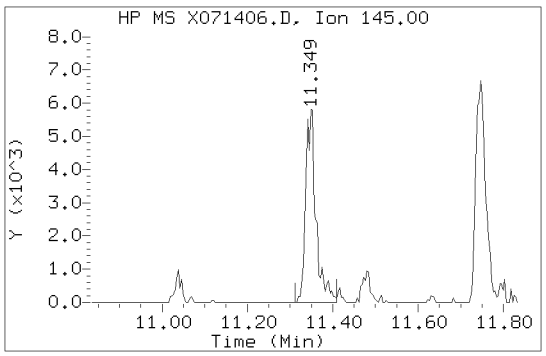
BEFORE

MASS
145
AREA
9753
HEIGHT
5817
20-Jul-2023
15:04
linh
pham



AFTER

MASS
145
AREA
9753
HEIGHT
5817
20-Jul-2023
15:04
linh
pham

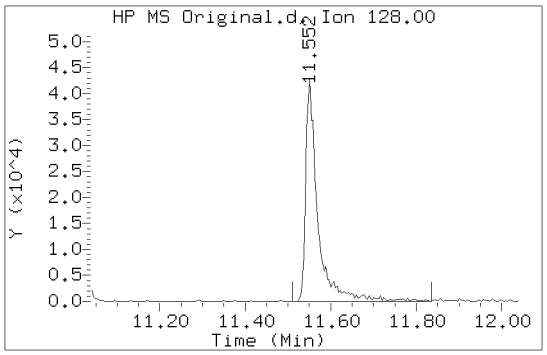


Naphthalene (91-20-3)

Reason Code:

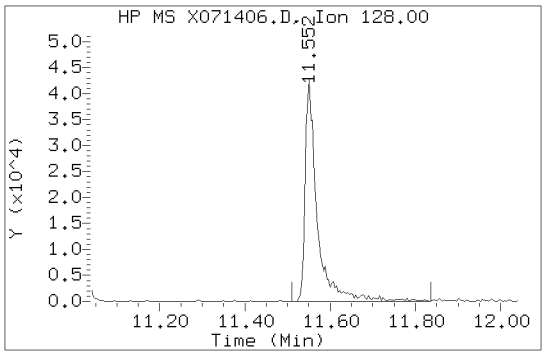
BEFORE

MASS
128
AREA
85025
HEIGHT
42672
20-Jul-2023
15:04
linh
pham



AFTER

MASS
128
AREA
85025
HEIGHT
42672
20-Jul-2023
15:04
linh
pham



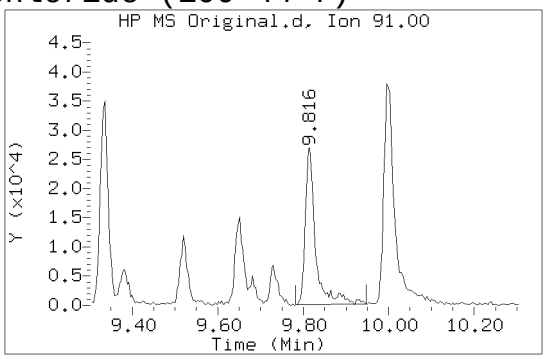
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230714.b\X071406.D
Inj Date : 14-JUL-2023 13:43
InstruID : voa6.i
LabSampID : VSTD005

Benzyl Chloride (100-44-7)

Reason Code:

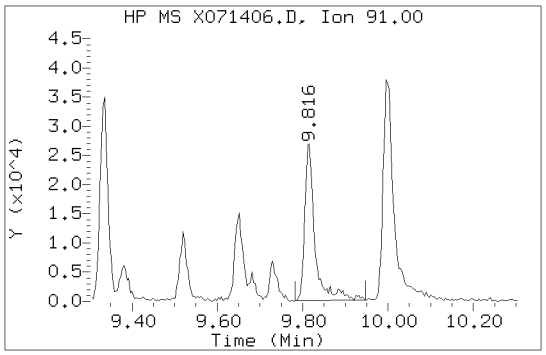
BEFORE

MASS
91
AREA
45616
HEIGHT
26893
20-Jul-2023
15:04
linh
pham



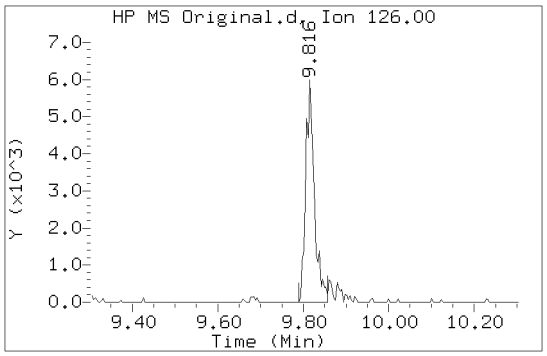
AFTER

MASS
91
AREA
45616
HEIGHT
26893
20-Jul-2023
15:04
linh
pham



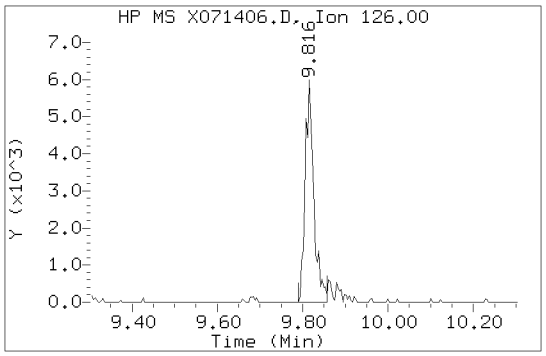
BEFORE

MASS
126
AREA
8499
HEIGHT
5989
20-Jul-2023
15:04
linh
pham



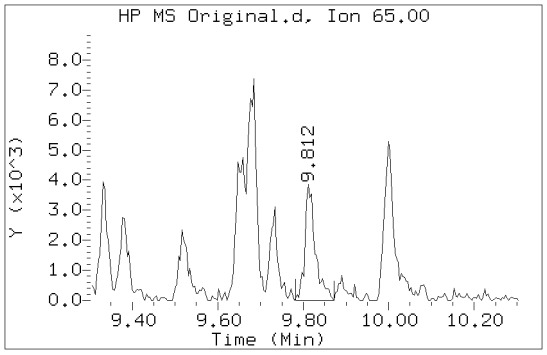
AFTER

MASS
126
AREA
8499
HEIGHT
5989
20-Jul-2023
15:04
linh
pham



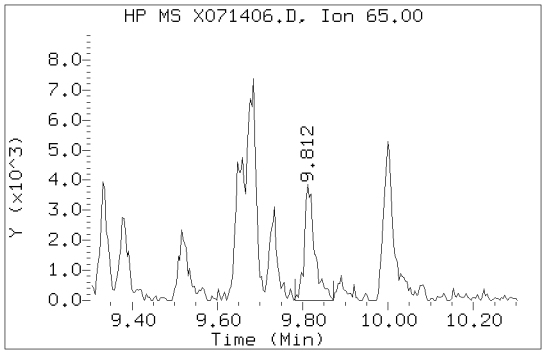
BEFORE

MASS
65
AREA
6591
HEIGHT
3852
20-Jul-2023
15:04
linh
pham



AFTER

MASS
65
AREA
6591
HEIGHT
3852
20-Jul-2023
15:04
linh
pham

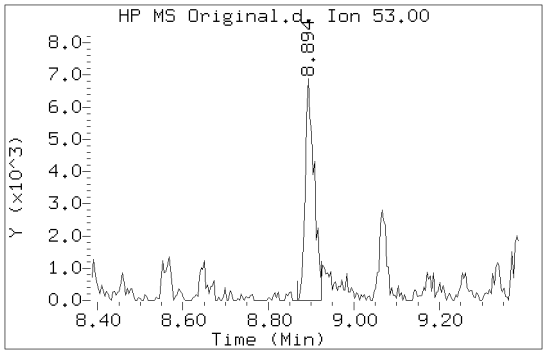


trans-1,4-Dichloro-2-butene (110-57-6)

Reason Code:

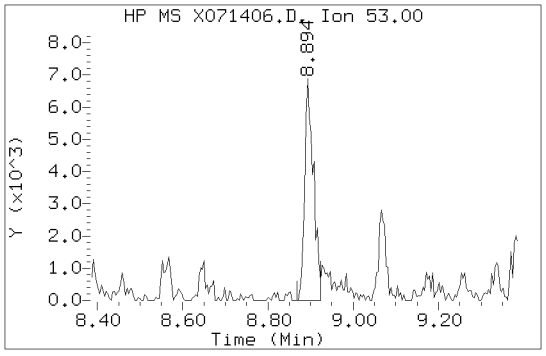
BEFORE

MASS
53
AREA
9958
HEIGHT
6886
20-Jul-2023
15:04
linh
pham



AFTER

MASS
53
AREA
9958
HEIGHT
6886
20-Jul-2023
15:04
linh
pham



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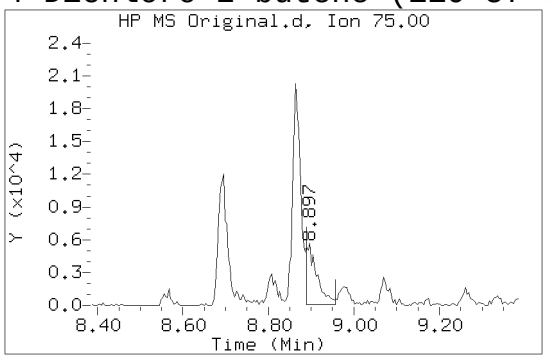
Inj Date : 14-JUL-2023 13:43
InstruID : voa6.i
LabSampID : VSTD005

trans-1,4-Dichloro-2-butene (110-57-6)

Reason Code:

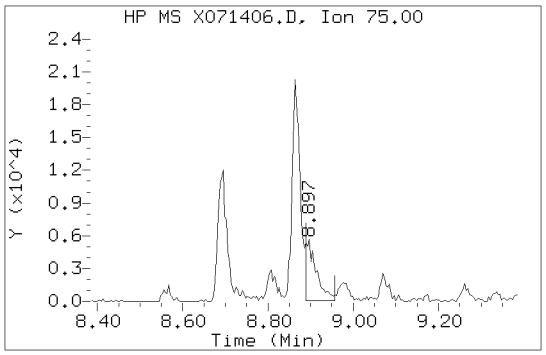
BEFORE

MASS
75
AREA
9615
HEIGHT
5621
20-Jul-2023
15:04
linh
pham



AFTER

MASS
75
AREA
9615
HEIGHT
5621
20-Jul-2023
15:04
linh
pham

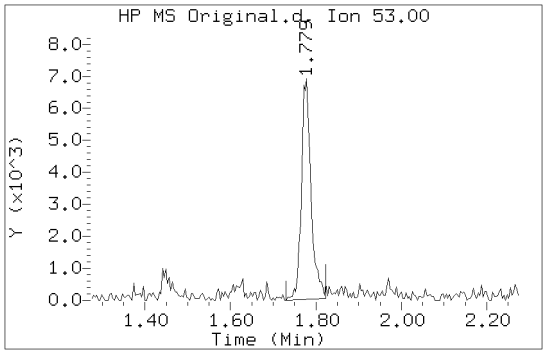


Chloroprene (126-99-8)

Reason Code:

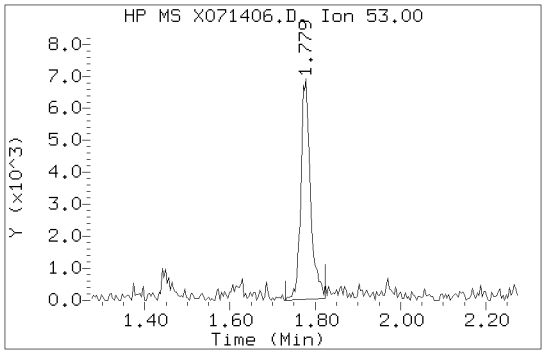
BEFORE

MASS
53
AREA
11212
HEIGHT
6900
20-Jul-2023
15:04
linh
pham



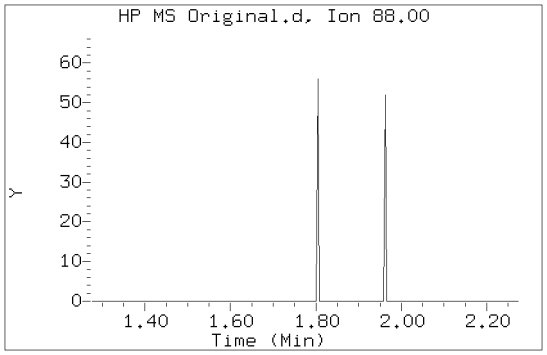
AFTER

MASS
53
AREA
11212
HEIGHT
6900
20-Jul-2023
15:04
linh
pham



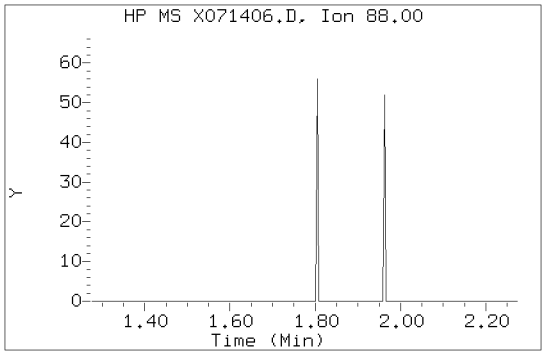
BEFORE

MASS
88
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham



AFTER

MASS
88
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham

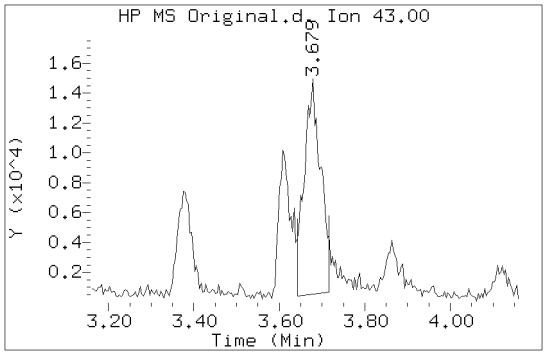


Ethyl Acetate (141-78-6)

Reason Code:

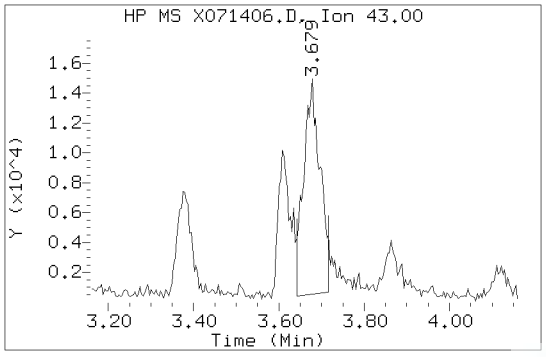
BEFORE

MASS
43
AREA
39438
HEIGHT
14396
20-Jul-2023
15:04
linh
pham



AFTER

MASS
43
AREA
39438
HEIGHT
14396
20-Jul-2023
15:04
linh
pham



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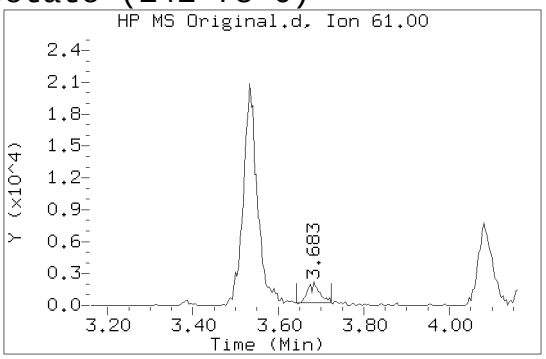
Inj Date : 14-JUL-2023 13:43
InstruID : voa6.i
LabSampID : VSTD005

Ethyl Acetate (141-78-6)

Reason Code:

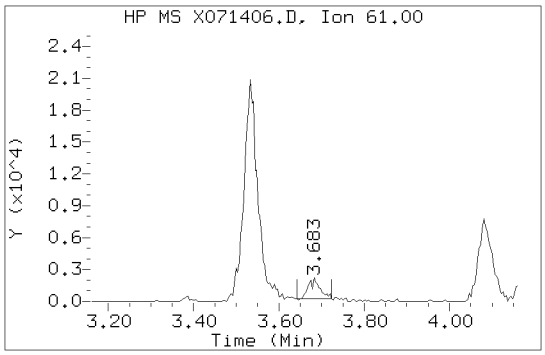
BEFORE

MASS
61
AREA
3702
HEIGHT
2000
20-Jul-2023
15:04
linh
pham



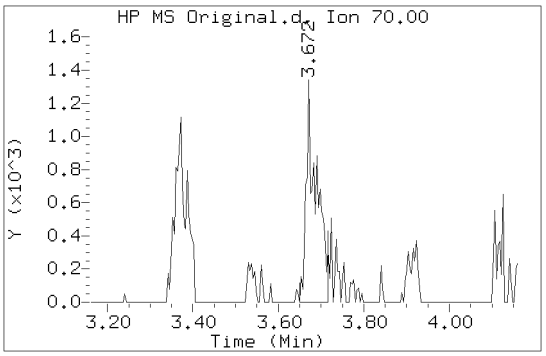
AFTER

MASS
61
AREA
3702
HEIGHT
2000
20-Jul-2023
15:04
linh
pham



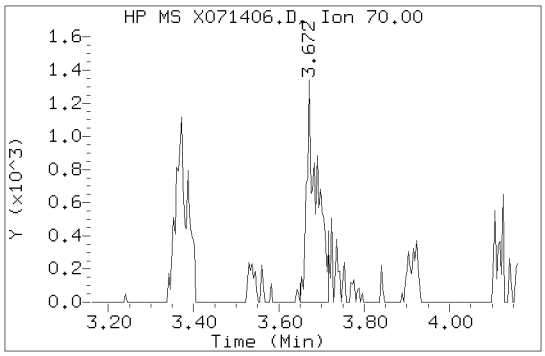
BEFORE

MASS
70
AREA
2283
HEIGHT
1341
20-Jul-2023
15:04
linh
pham



AFTER

MASS
70
AREA
2283
HEIGHT
1341
20-Jul-2023
15:04
linh
pham

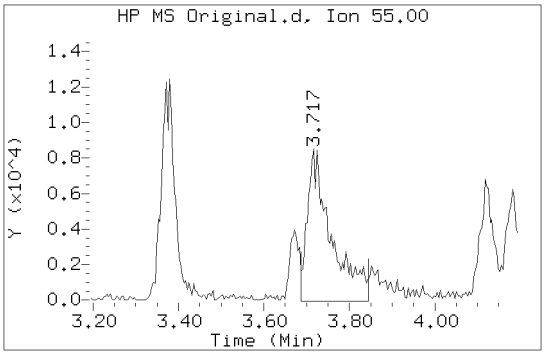


Methyl Acrylate (96-33-3)

Reason Code:

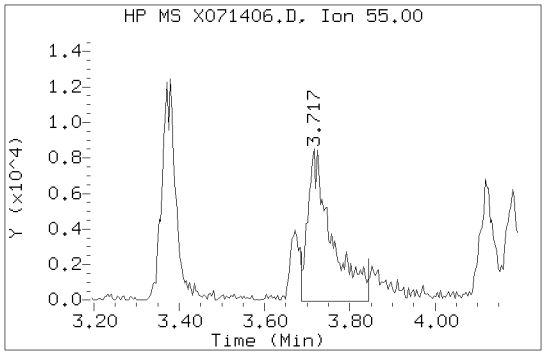
BEFORE

MASS
55
AREA
33338
HEIGHT
8583
20-Jul-2023
15:04
linh
pham



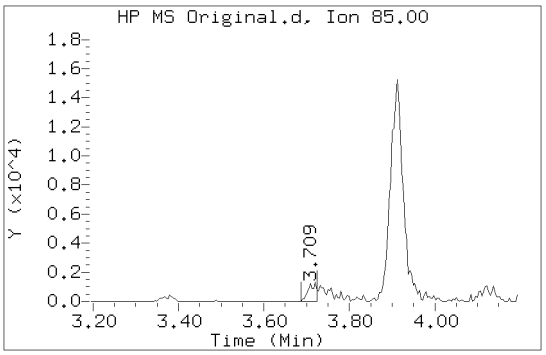
AFTER

MASS
55
AREA
33338
HEIGHT
8583
20-Jul-2023
15:04
linh
pham



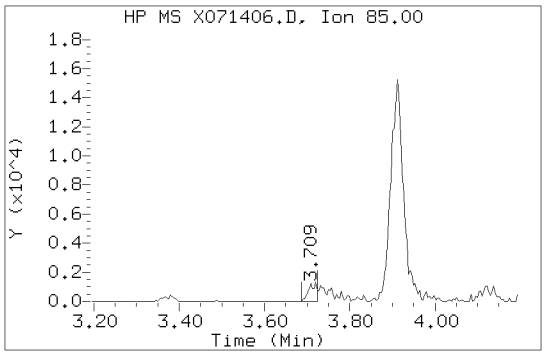
BEFORE

MASS
85
AREA
1657
HEIGHT
1216
20-Jul-2023
15:04
linh
pham



AFTER

MASS
85
AREA
1657
HEIGHT
1216
20-Jul-2023
15:04
linh
pham



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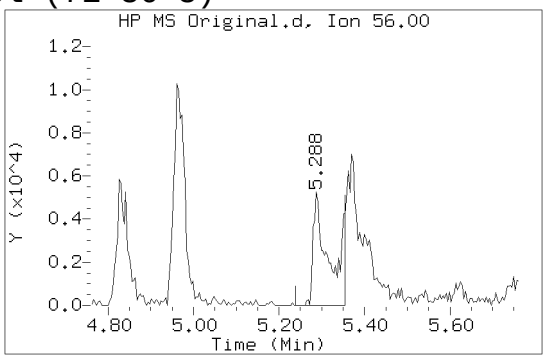
Inj Date : 14-JUL-2023 13:43
InstruID : voa6.i
LabSampID : VSTD005

n-Butanol (71-36-3)

Reason Code:

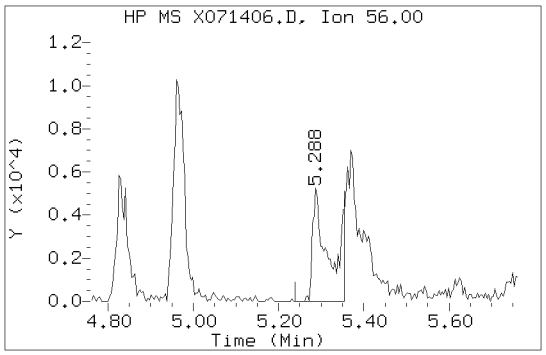
BEFORE

MASS
56
AREA
13588
HEIGHT
5250
20-Jul-2023
15:04
linh
pham



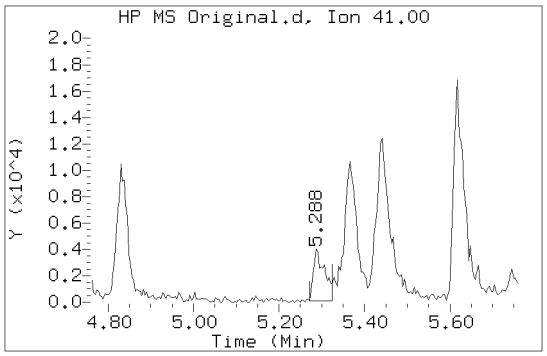
AFTER

MASS
56
AREA
13588
HEIGHT
5250
20-Jul-2023
15:04
linh
pham



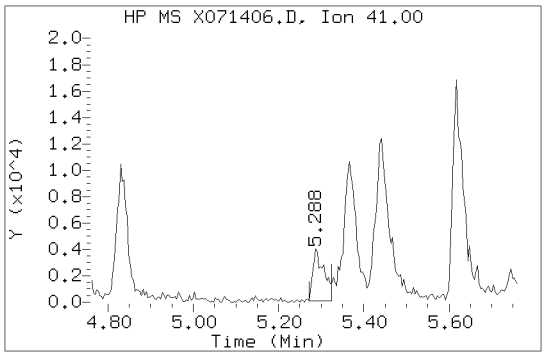
BEFORE

MASS
41
AREA
7179
HEIGHT
3942
20-Jul-2023
15:04
linh
pham



AFTER

MASS
41
AREA
7179
HEIGHT
3942
20-Jul-2023
15:04
linh
pham

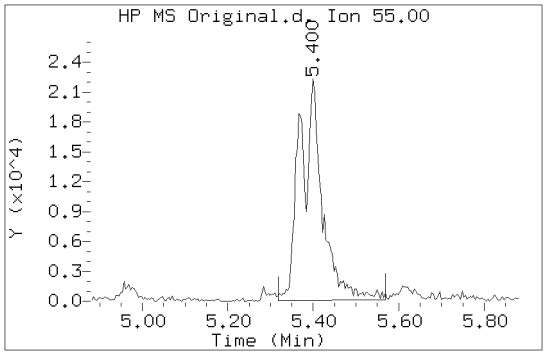


Ethyl Acrylate (140-88-5)

Reason Code:

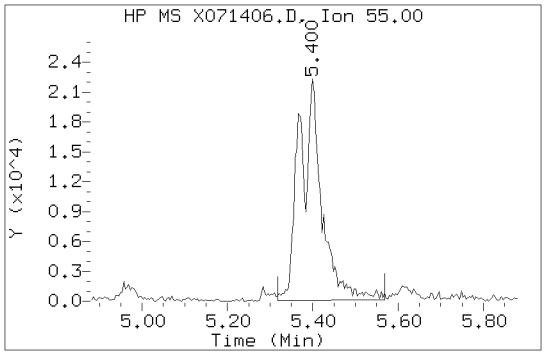
BEFORE

MASS
55
AREA
82574
HEIGHT
22225
20-Jul-2023
15:04
linh
pham



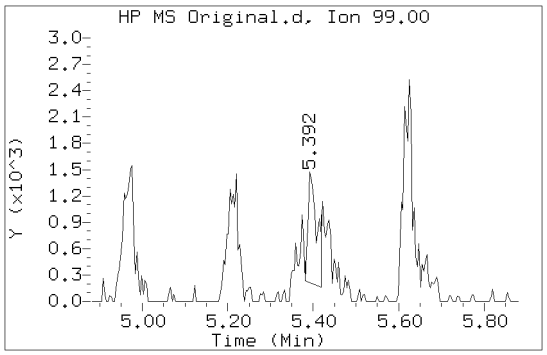
AFTER

MASS
55
AREA
82574
HEIGHT
22225
20-Jul-2023
15:04
linh
pham



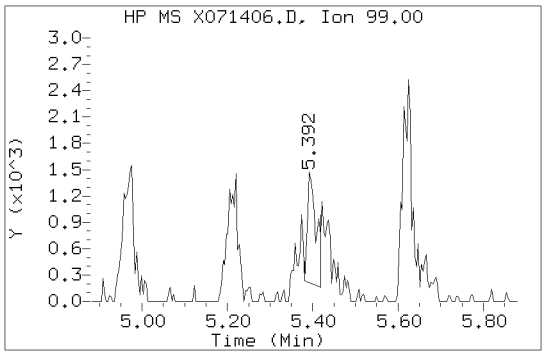
BEFORE

MASS
99
AREA
1773
HEIGHT
1256
20-Jul-2023
15:04
linh
pham



AFTER

MASS
99
AREA
1773
HEIGHT
1256
20-Jul-2023
15:04
linh
pham



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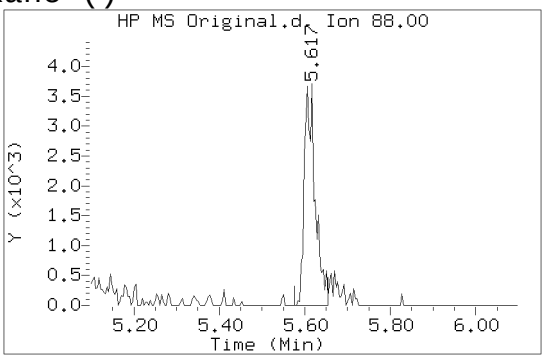
Inj Date : 14-JUL-2023 13:43
InstruID : voa6.i
LabSampID : VSTD005

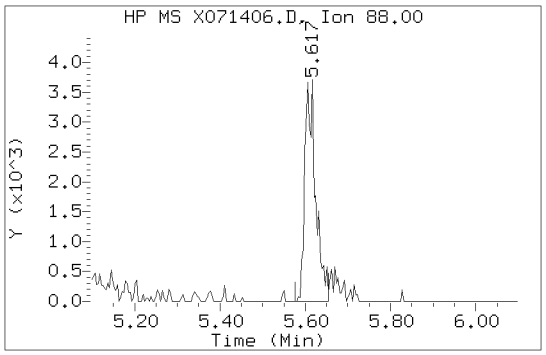
1,4-Dioxane ()

Reason Code:

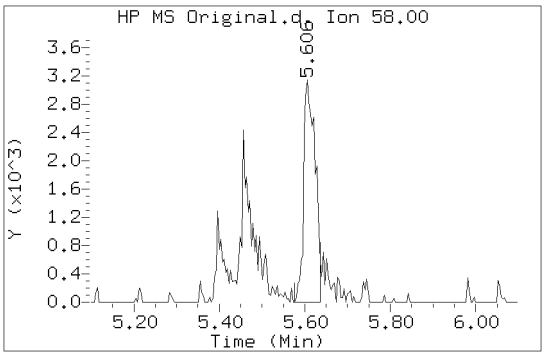
BEFORE
MASS
88
AREA
6551
HEIGHT
3709
20-Jul-2023
15:04
linh
pham



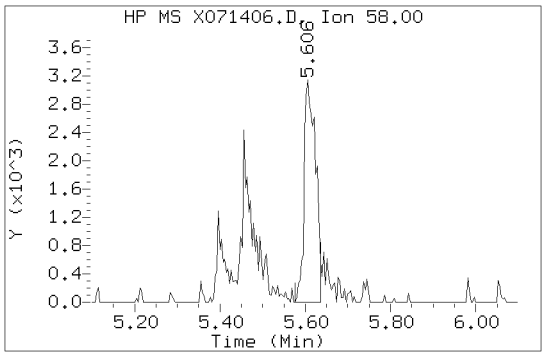
AFTER
MASS
88
AREA
6551
HEIGHT
3709
20-Jul-2023
15:04
linh
pham



BEFORE
MASS
58
AREA
5961
HEIGHT
3144
20-Jul-2023
15:04
linh
pham



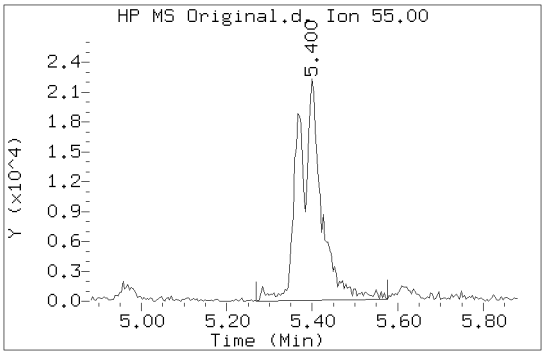
AFTER
MASS
58
AREA
5961
HEIGHT
3144
20-Jul-2023
15:04
linh
pham



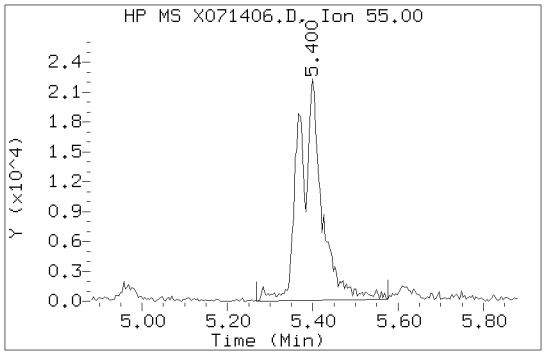
Methylcyclohexane (108-87-2)

Reason Code:

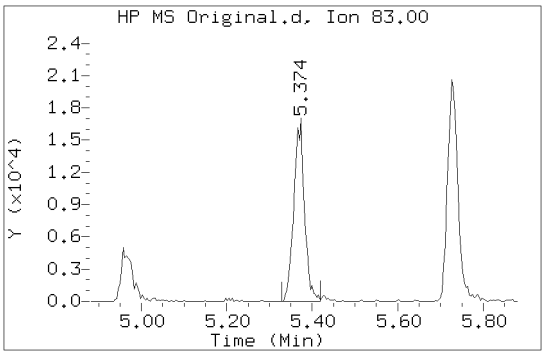
BEFORE
MASS
55
AREA
84656
HEIGHT
22257
20-Jul-2023
15:04
linh
pham



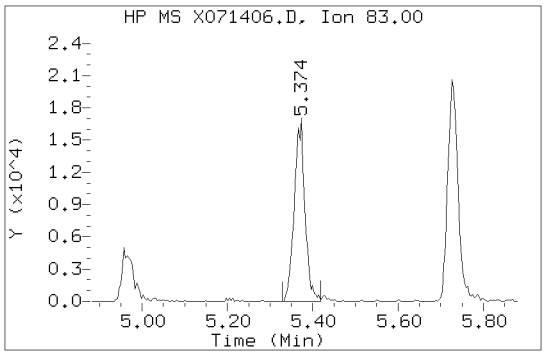
AFTER
MASS
55
AREA
84656
HEIGHT
22257
20-Jul-2023
15:04
linh
pham



BEFORE
MASS
83
AREA
30014
HEIGHT
17040
20-Jul-2023
15:04
linh
pham



AFTER
MASS
83
AREA
30014
HEIGHT
17040
20-Jul-2023
15:04
linh
pham



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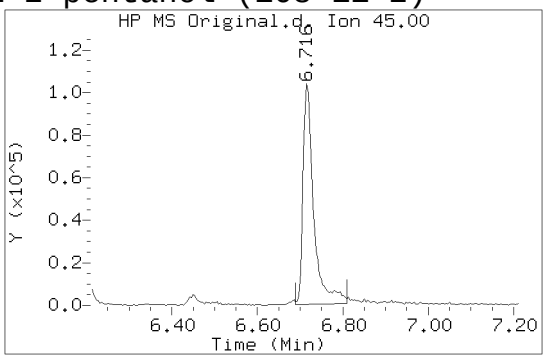
Inj Date : 14-JUL-2023 13:43
InstruID : voa6.i
LabSampID : VSTD005

4-Methyl-2-pentanol (108-11-2)

Reason Code:

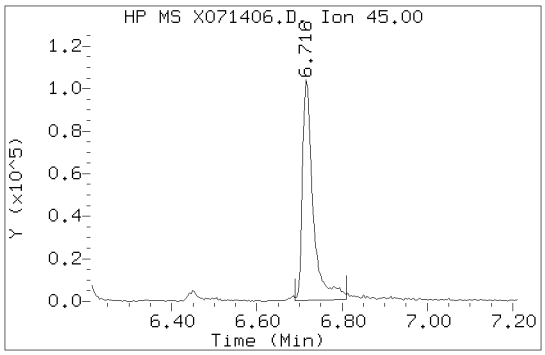
BEFORE

MASS
45
AREA
183123
HEIGHT
103764
20-Jul-2023
15:04
linh
pham



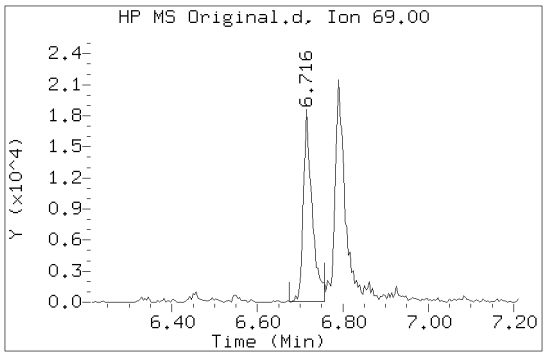
AFTER

MASS
45
AREA
183123
HEIGHT
103764
20-Jul-2023
15:04
linh
pham



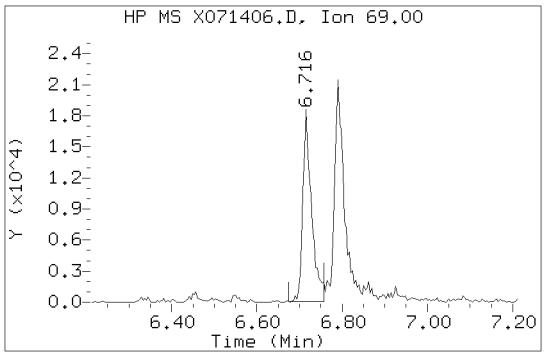
BEFORE

MASS
69
AREA
26485
HEIGHT
18576
20-Jul-2023
15:04
linh
pham



AFTER

MASS
69
AREA
26485
HEIGHT
18576
20-Jul-2023
15:04
linh
pham

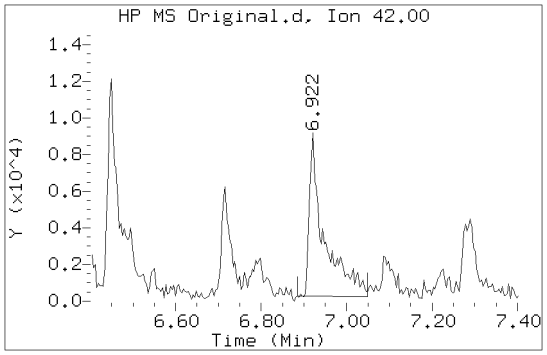


Amyl alcohol (71-41-0)

Reason Code:

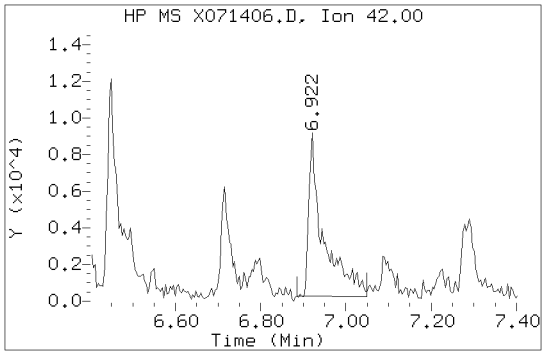
BEFORE

MASS
42
AREA
21498
HEIGHT
8913
20-Jul-2023
15:04
linh
pham



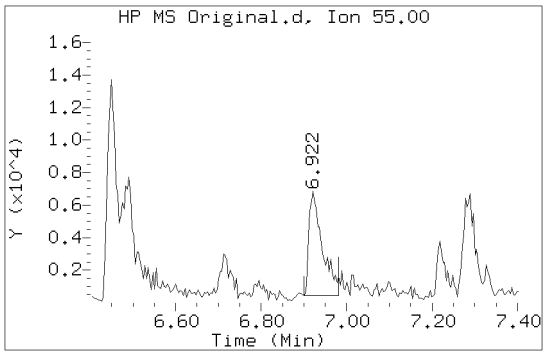
AFTER

MASS
42
AREA
21498
HEIGHT
8913
20-Jul-2023
15:04
linh
pham



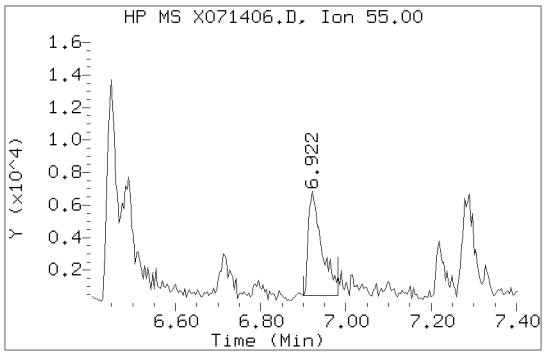
BEFORE

MASS
55
AREA
14214
HEIGHT
6435
20-Jul-2023
15:04
linh
pham



AFTER

MASS
55
AREA
14214
HEIGHT
6435
20-Jul-2023
15:04
linh
pham



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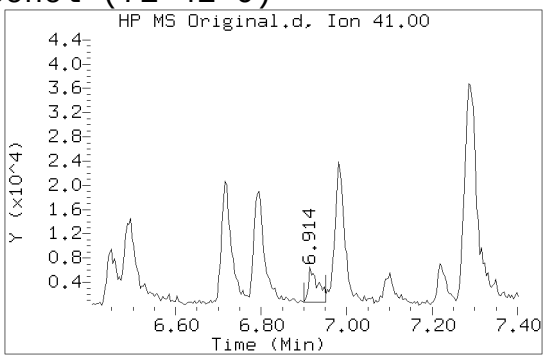
Inj Date : 14-JUL-2023 13:43
InstruID : voa6.i
LabSampID : VSTD005

Amyl alcohol (71-41-0)

Reason Code:

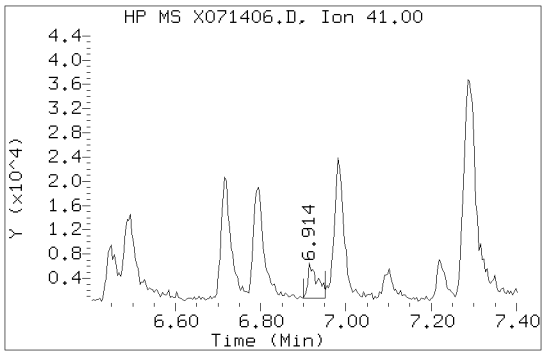
BEFORE

MASS
41
AREA
8850
HEIGHT
5781
20-Jul-2023
15:04
linh
pham



AFTER

MASS
41
AREA
8850
HEIGHT
5781
20-Jul-2023
15:04
linh
pham

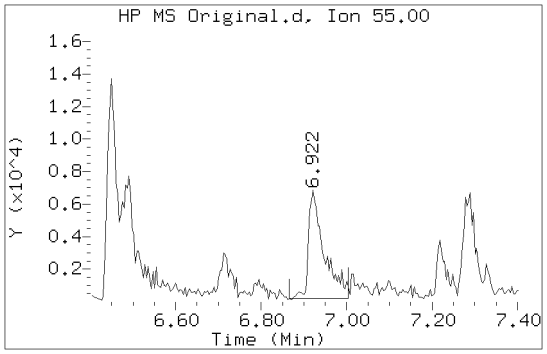


3-Methyl-1-butanol (123-51-3)

Reason Code:

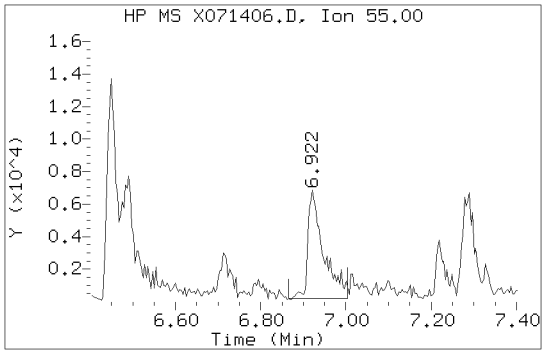
BEFORE

MASS
55
AREA
17029
HEIGHT
6664
20-Jul-2023
15:04
linh
pham



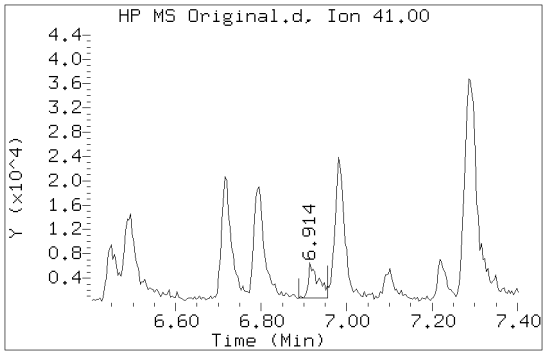
AFTER

MASS
55
AREA
17029
HEIGHT
6664
20-Jul-2023
15:04
linh
pham



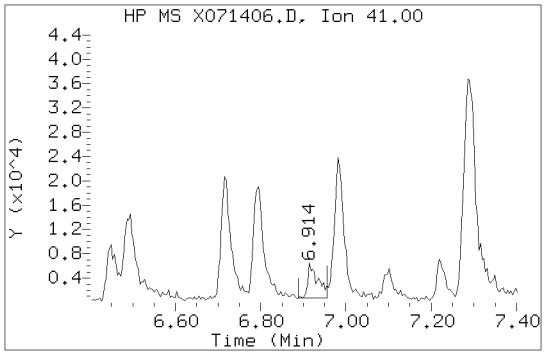
BEFORE

MASS
41
AREA
9490
HEIGHT
5807
20-Jul-2023
15:04
linh
pham



AFTER

MASS
41
AREA
9490
HEIGHT
5807
20-Jul-2023
15:04
linh
pham

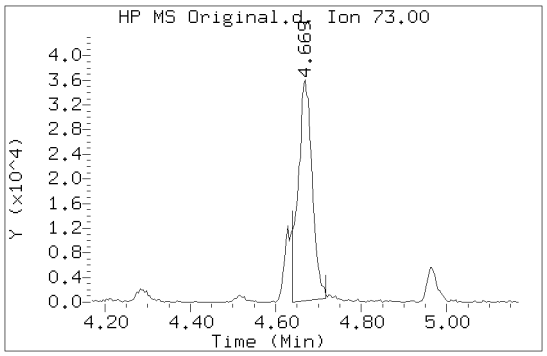


tert-Amyl methyl ether (974-05-08)

Reason Code:

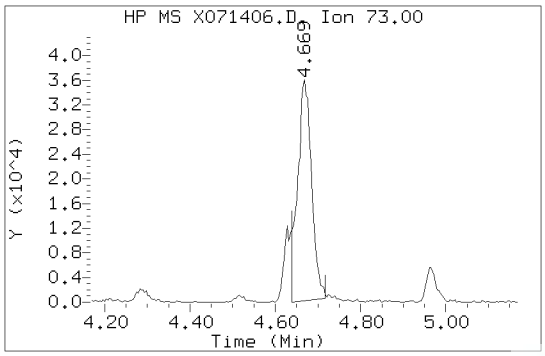
BEFORE

MASS
73
AREA
83517
HEIGHT
35784
20-Jul-2023
15:04
linh
pham



AFTER

MASS
73
AREA
83517
HEIGHT
35784
20-Jul-2023
15:04
linh
pham



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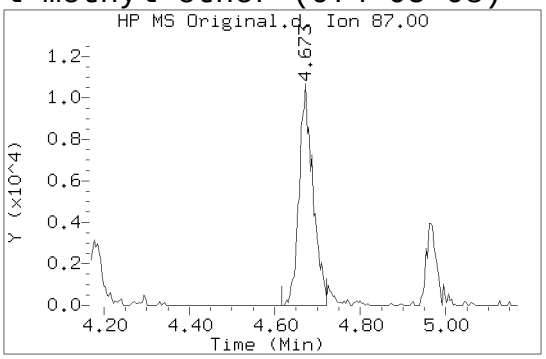
Inj Date : 14-JUL-2023 13:43
InstruID : voa6.i
LabSampID : VSTD005

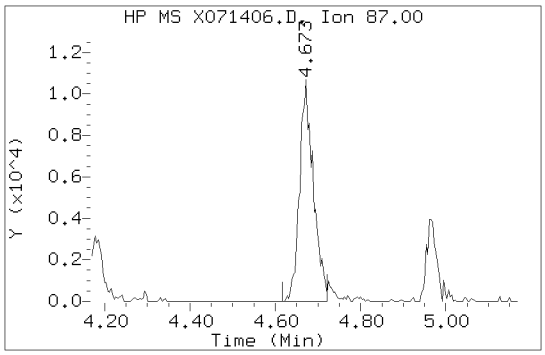
tert-Amyl methyl ether (974-05-08)

BEFORE
MASS
87
AREA
24319
HEIGHT
10688
20-Jul-2023
15:04
linh
pham

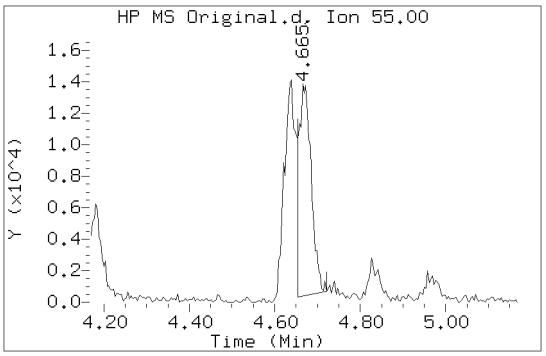


Reason Code:

AFTER
MASS
87
AREA
24319
HEIGHT
10688
20-Jul-2023
15:04
linh
pham



BEFORE
MASS
55
AREA
27476
HEIGHT
13484
20-Jul-2023
15:04
linh
pham



AFTER
MASS
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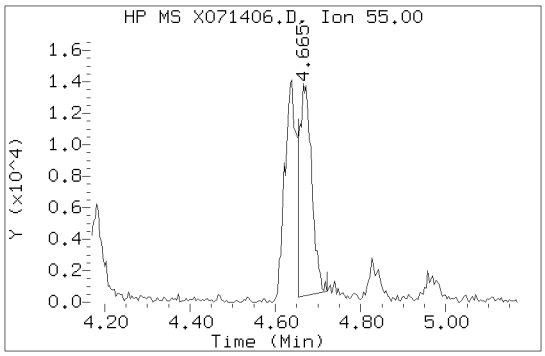
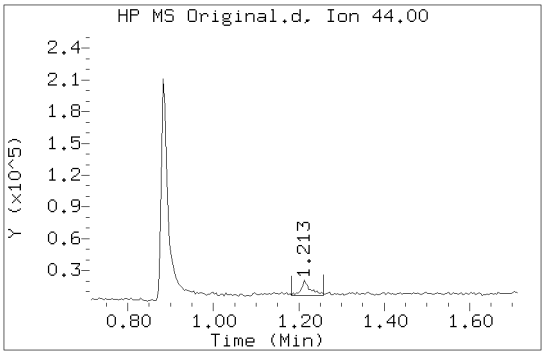
AREA
27476
HEIGHT
13484
20-Jul-2023
15:04
linh
pham



Acetaldehyde (75-07-0)

BEFORE
MASS
44
AREA
20987
HEIGHT
14166
20-Jul-2023
15:04
linh
pham



Reason Code:

AFTER
MASS
44
AREA
20987
HEIGHT
14166
20-Jul-2023
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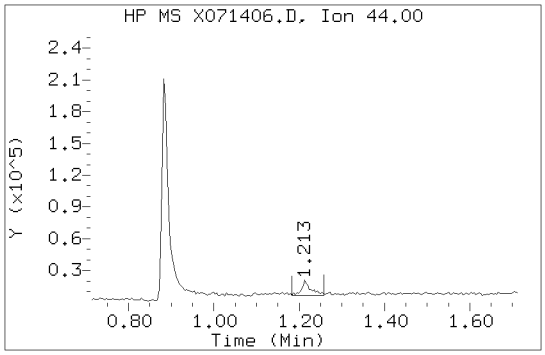

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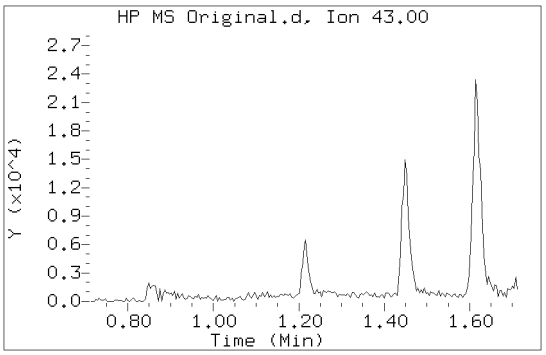

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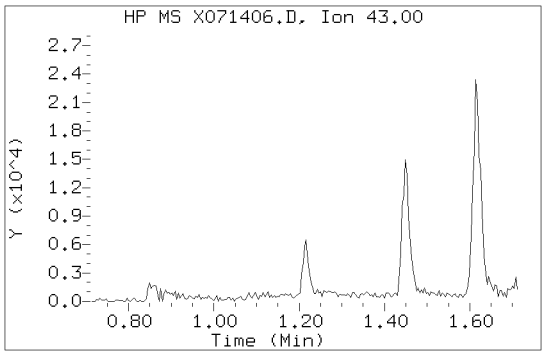

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LabSampID : VSTD005

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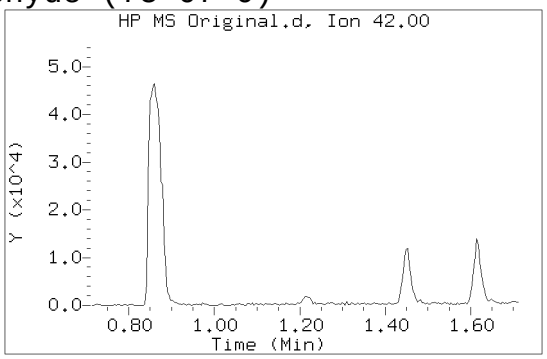

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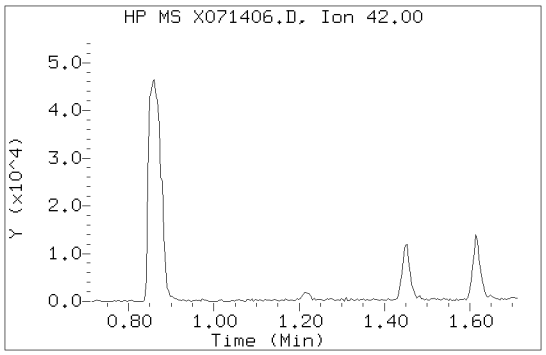

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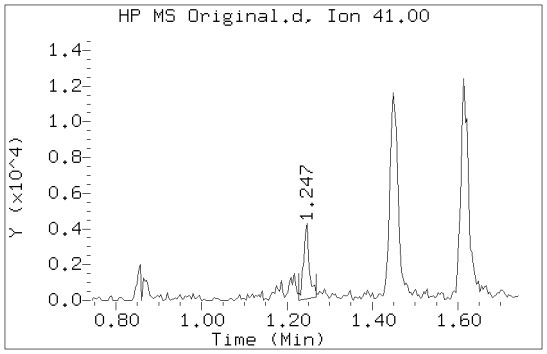

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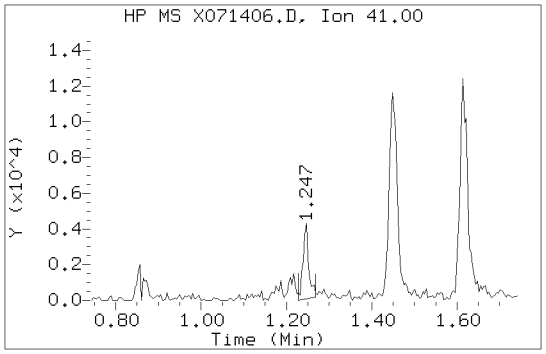

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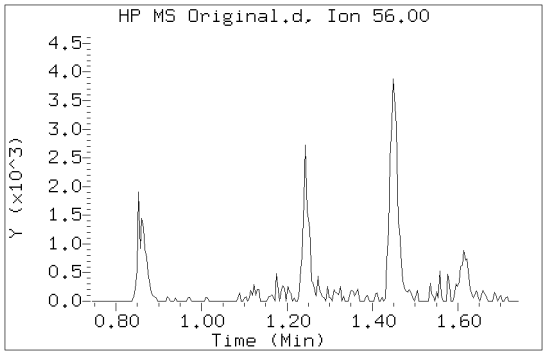

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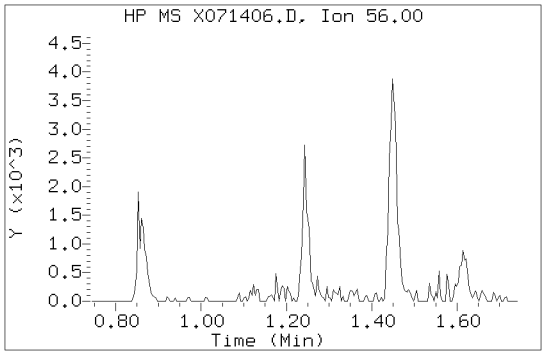

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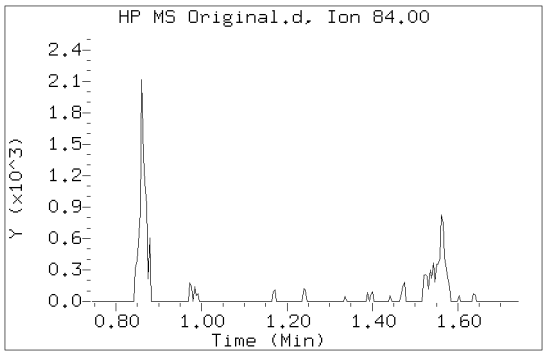

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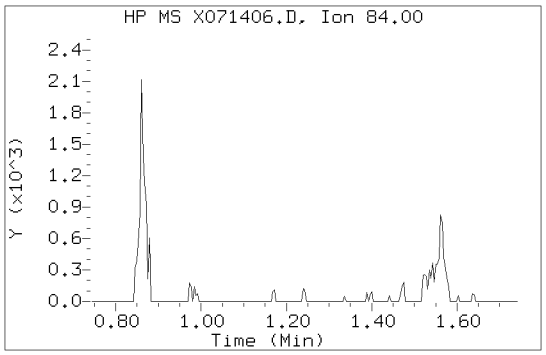

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LabSampID : VSTD005

Toluene-d8 (2037-26-5)

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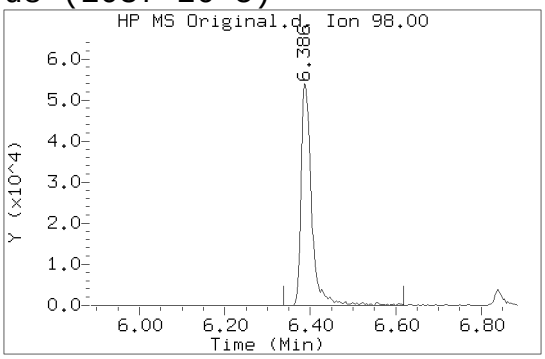

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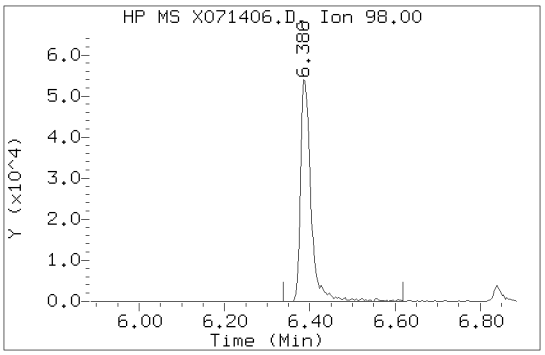

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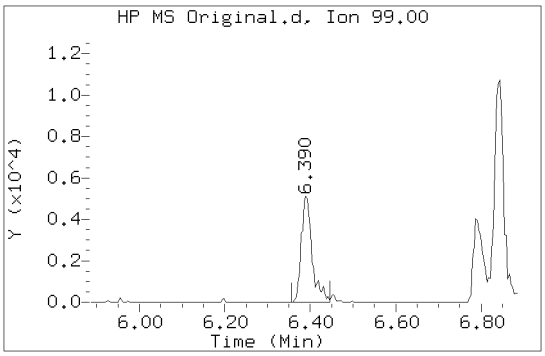

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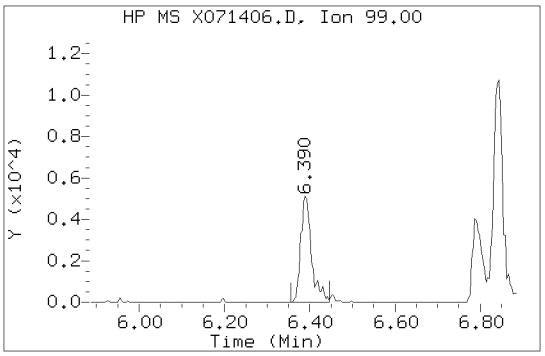

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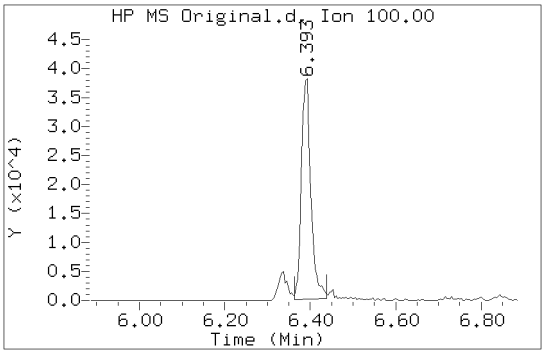

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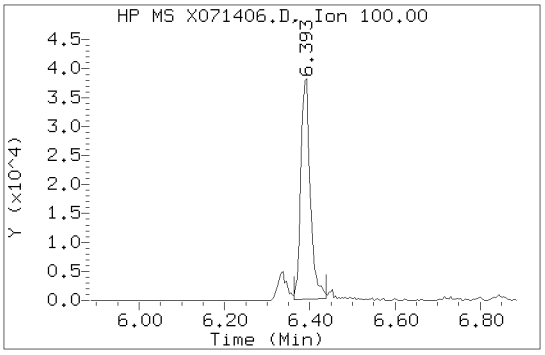

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230714.b\X071407.D Page 1
Report Date: 20-Jul-2023 15:05

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230714.b\X071407.D
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Inj Date : 14-JUL-2023 14:04
Operator : PC Inst ID: voa6.i
Smp Info : VSTD020;VSTD020;1;6;
Misc Info : V6;WATER;0;1;
Comment   :
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Meth Date : 20-Jul-2023 15:05 voa6.i Quant Type: ISTD
Cal Date : 14-JUL-2023 13:43 Cal File: X071406.D
Als bottle: 8 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1	Pentafluorobenzene	168	4.178	4.178	(1.000)	507763	50.0000	
2	Dichlorodifluoromethane	85	0.976	0.976	(0.234)	94710	20.0000	18.92
3	Chloromethane	50	1.081	1.081	(0.259)	133501	20.0000	17.40
4	Propionitrile	54	3.660	3.660	(0.876)	205441	200.000	204.24(a)
5	Vinyl Chloride	62	1.145	1.145	(0.274)	126856	20.0000	19.30
6	Bromomethane	94	1.344	1.344	(0.322)	48177	20.0000	17.71
7	Chloroethane	64	1.407	1.407	(0.337)	72133	20.0000	19.23
8	Trichlorofluoromethane	101	1.561	1.561	(0.374)	132138	20.0000	19.84
9	Acrolein	56	1.865	1.865	(0.446)	6957	40.0000	36.90(H)
10	Acetone	43	1.977	1.977	(0.473)	92232	40.0000	43.26
11	1,1-Dichloroethene	96	1.917	1.917	(0.459)	72938	20.0000	19.60
12	Isobutyl Alcohol	43	4.680	4.680	(1.120)	401784	400.000	417.43(a)
13	Acetonitrile	39	2.198	2.198	(0.526)	138938	200.000	195.13(a)
14	Allyl Chloride	41	2.198	2.198	(0.526)	321229	20.0000	19.26(a)
15	Iodomethane	142	2.030	2.030	(0.486)	147770	40.0000	33.32
16	Acrylonitrile	53	2.539	2.539	(0.608)	96410	40.0000	38.96
17	Methylene Chloride	84	2.303	2.303	(0.551)	93705	20.0000	20.53
18	Methyl tert-butyl ether	73	2.539	2.539	(0.608)	272881	20.0000	19.72
19	Carbon Disulfide	76	2.075	2.075	(0.497)	443798	40.0000	37.95
20	trans-1,2-Dichloroethene	96	2.528	2.528	(0.605)	83048	20.0000	19.30

21 Vinyl Acetate	43	3.004	3.004 (0.719)	716288	40.0000	40.25
22 1,1-Dichloroethane	63	2.922	2.922 (0.699)	180478	20.0000	19.11

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	23 Chloroprene	53	1.775	1.775	(0.425)	42093	20.0000	18.43(M)
	24 2-Butanone	43	3.593	3.593	(0.860)	103083	40.0000	38.12
	25 Methacrylonitrile	41	3.833	3.833	(0.917)	134358	20.0000	20.49(a)
	26 2,2-Dichloropropane	77	3.510	3.510	(0.840)	136770	20.0000	18.78
	27 cis-1,2-Dichloroethene	96	3.525	3.525	(0.844)	106626	20.0000	19.45
	28 Chloroform	83	3.904	3.904	(0.935)	185575	20.0000	19.20
	29 Bromochloromethane	128	3.799	3.799	(0.909)	58138	20.0000	18.92
$	30 Dibromofluoromethane	113	4.103	4.103	(0.982)	100577	20.0000	21.17
	31 1,1,1-Trichloroethane	97	4.084	4.084	(0.978)	145149	20.0000	19.51
	32 1,1-Dichloropropene	75	4.283	4.283	(0.863)	122898	20.0000	18.90
	33 1,2-Dichloroethane	62	4.556	4.556	(0.918)	173705	20.0000	19.79
	34 Carbon Tetrachloride	117	4.264	4.264	(0.859)	124542	20.0000	19.01
$	35 1,2-Dichloroethane-d4	65	4.470	4.470	(1.070)	125030	20.0000	21.12
*	36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	797093	50.0000	
	37 Benzene	78	4.511	4.511	(0.909)	377488	20.0000	19.79
	38 Trichloroethene	130	5.208	5.208	(1.049)	104832	20.0000	19.43
	39 Bromodichloromethane	83	5.726	5.726	(1.153)	141699	20.0000	19.40
	40 Methyl Methacrylate	41	5.610	5.610	(1.343)	116657	20.0000	19.03(a)
	41 2-Chloroethylvinyl ether	63	6.048	6.048	(1.218)	89929	40.0000	40.33
	42 1,2-Dichloropropane	63	5.437	5.437	(1.095)	123713	20.0000	20.17
	43 2-Nitropropane	43	5.969	5.969	(1.429)	38152	20.0000	18.91
	44 Dibromomethane	93	5.553	5.553	(1.119)	68138	20.0000	19.63
	45 4-Methyl-2-Pentanone	43	6.326	6.326	(0.825)	285574	40.0000	39.47
	46 cis-1,3-Dichloropropene	75	6.153	6.153	(1.239)	165788	20.0000	19.76
*	47 Chlorobenzene-d5	117	7.668	7.668	(1.000)	735188	50.0000	
$	48 Toluene-d8	98	6.386	6.386	(0.833)	356461	20.0000	18.83(M)
	49 Ethyl Methacrylate	69	6.712	6.712	(1.352)	101772	20.0000	19.49(a)
	50 Toluene	91	6.446	6.446	(0.841)	392472	20.0000	19.83
	51 trans-1,3-Dichloropropene	75	6.682	6.682	(1.346)	139738	20.0000	19.76
	52 2-Hexanone	43	7.090	7.090	(0.925)	197105	40.0000	41.47
	53 1,1,2-Trichloroethane	83	6.835	6.835	(0.891)	84947	20.0000	20.23
	54 1,3-Dichloropropane	76	6.982	6.982	(0.911)	170222	20.0000	19.84
	55 Dibromochloromethane	129	7.173	7.173	(0.935)	118768	20.0000	19.59
	56 Tetrachloroethene	164	6.922	6.922	(0.903)	79779	20.0000	19.51
	57 1,2-Dibromoethane	107	7.259	7.259	(0.947)	99972	20.0000	20.83
	58 1-Chlorohexane	55	7.694	7.694	(1.550)	123726	20.0000	19.32
	59 Chlorobenzene	112	7.694	7.694	(1.003)	270232	20.0000	19.53
	60 1,1,1,2-Tetrachloroethane	131	7.773	7.773	(1.014)	107430	20.0000	19.83
	61 Ethylbenzene	106	7.795	7.795	(1.017)	131122	20.0000	18.90
	62 m,p-Xylenes	106	7.904	7.904	(1.031)	341700	40.0000	39.26
	63 o-Xylene	106	8.237	8.237	(1.074)	162342	20.0000	19.69
	64 Styrene	104	8.260	8.260	(1.077)	282779	20.0000	19.67
	66 Bromoform	173	8.406	8.406	(1.096)	75861	20.0000	19.50
	67 Isopropylbenzene	105	8.560	8.560	(1.116)	405778	20.0000	19.15
	68 1,1,2,2-Tetrachloroethane	83	8.837	8.837	(0.915)	127719	20.0000	19.39
$	69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	153161	20.0000	20.67
*	70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	392137	50.0000	
	71 1,2,3-Trichloropropane	75	8.860	8.860	(0.917)	106108	20.0000	20.30(M)
	72 trans-1,4-Dichloro-2-butene	53	8.886	8.886	(1.159)	44727	20.0000	20.00(a)
	73 n-Propylbenzene	91	8.908	8.908	(0.922)	471016	20.0000	19.87
	74 Bromobenzene	156	8.803	8.803	(0.911)	121594	20.0000	19.82
	75 1,3,5-Trimethylbenzene	105	9.066	9.066	(0.938)	331762	20.0000	18.68

76	2-Chlorotoluene	91	8.972	8.972 (0.929)	320833	20.0000	20.07
77	4-Chlorotoluene	91	9.070	9.070 (0.939)	358181	20.0000	20.39

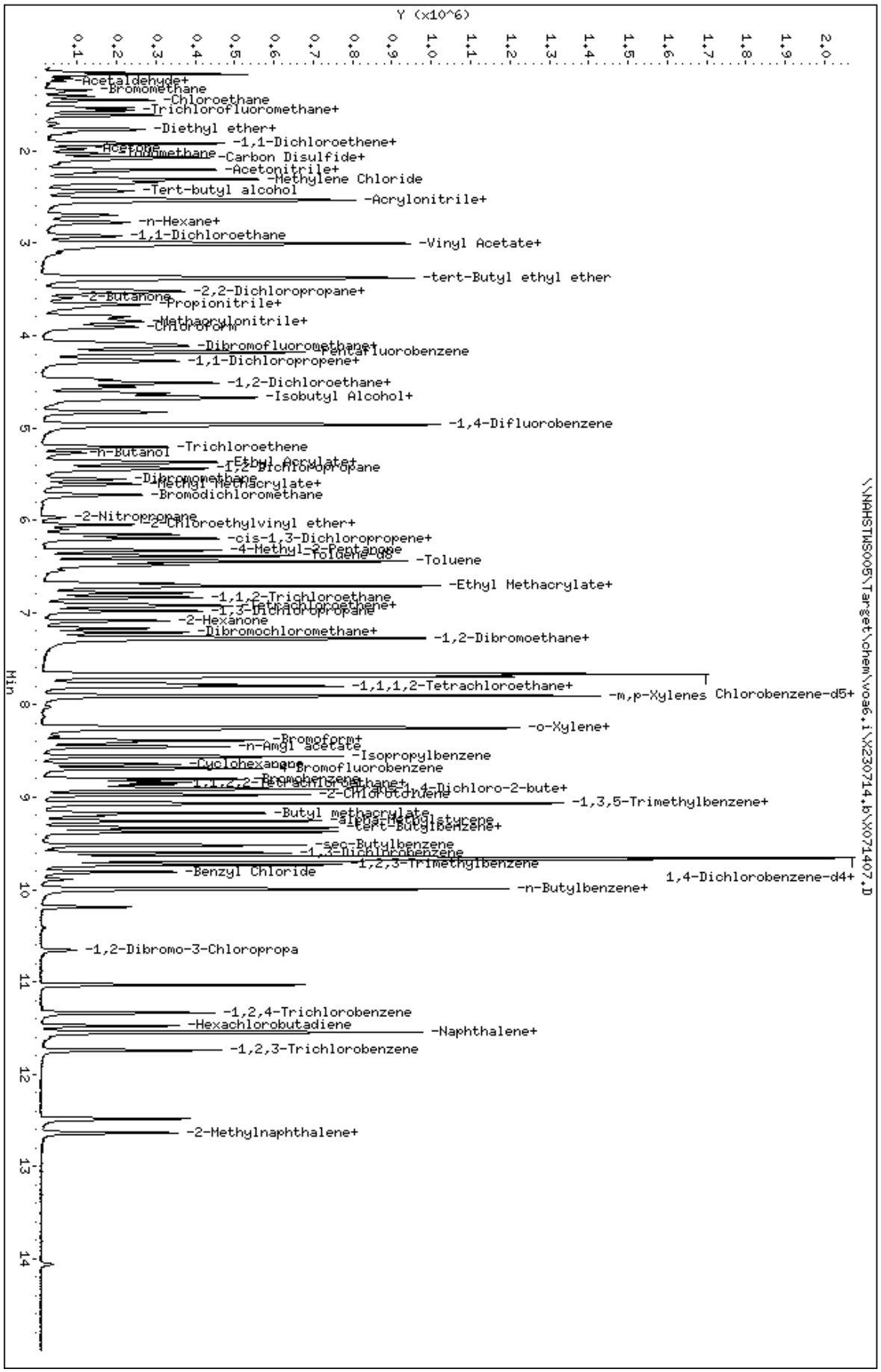
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
78	tert-Butylbenzene	119	9.332	9.332	(0.966)	287767	20.0000	18.90
79	1,2,4-Trimethylbenzene	105	9.377	9.377	(0.971)	336741	20.0000	18.91
81	sec-Butylbenzene	105	9.519	9.519	(0.985)	394513	20.0000	19.44
82	p-Isopropyltoluene	119	9.647	9.647	(0.998)	346253	20.0000	18.67
83	1,3-Dichlorobenzene	146	9.606	9.606	(0.994)	208939	20.0000	19.55
84	1,4-Dichlorobenzene	146	9.677	9.677	(1.002)	230542	20.0000	19.68
86	Benzyl Chloride	91	9.808	9.808	(1.279)	196200	20.0000	17.29
87	n-Butylbenzene	91	9.992	9.992	(1.034)	282220	20.0000	18.17
88	1,2-Dichlorobenzene	146	9.992	9.992	(1.034)	209204	20.0000	19.91
89	1,2-Dibromo-3-Chloropropane	155	10.659	10.659	(1.103)	19568	20.0000	18.76
90	1,2,4-Trichlorobenzene	180	11.337	11.337	(1.173)	123442	20.0000	17.11
91	Hexachlorobutadiene	225	11.476	11.476	(1.188)	52647	20.0000	17.44
92	Naphthalene	128	11.540	11.540	(1.194)	325767	20.0000	18.24
93	1,2,3-Trichlorobenzene	180	11.739	11.739	(1.215)	122392	20.0000	18.14
146	Methyl acetate	43	2.232	2.232	(0.534)	91399	20.0000	20.22
138	Freon TF	101	1.917	1.917	(0.459)	67796	20.0000	23.07(M)
141	Cyclohexane	56	4.121	4.121	(0.987)	165922	20.0000	18.85(H)
142	Tetrahydrofuran	42	3.851	3.851	(0.922)	53361	40.0000	40.84
147	Methylcyclohexane	55	5.388	5.388	(1.085)	328269	20.0000	19.51(M)
135	1,4-Dioxane	88	5.606	5.606	(1.342)	23823	400.000	394.82
132	n-Butanol	56	5.265	5.265	(1.260)	60771	400.000	359.52(a)
131	Methyl Acrylate	55	3.702	3.702	(0.886)	135453	20.0000	19.62(H)
133	Ethyl Acrylate	55	5.388	5.388	(1.290)	335022	20.0000	19.90
136	n-Hexane	57	2.772	2.772	(0.664)	106667	20.0000	23.04
139	Diethyl ether	59	1.763	1.763	(0.422)	93008	20.0000	19.64
148	Tert-butyl alcohol	59	2.434	2.434	(0.583)	251621	400.000	392.62
149	Isopropyl alcohol	45	2.097	2.097	(0.502)	157344	400.000	395.67
156	Diisopropyl ether	45	3.008	3.008	(0.720)	419096	20.0000	20.02
166	1,2,3-Trimethylbenzene	105	9.729	9.729	(1.007)	351806	20.0000	19.40
167	Ethanol	45	1.703	1.703	(0.408)	30252	400.000	415.32
172	tert-Butyl formate	59	4.627	4.627	(1.108)	202938	40.0000	37.41(M)
173	3,3-Dimethyl-1-butanol	57	7.285	7.285	(0.950)	307235	400.000	388.58
174	tert-Amyl methyl ether	73	4.669	4.669	(1.118)	318193	20.0000	19.04
175	tert-Butyl ethyl ether	59	3.379	3.379	(0.809)	413607	20.0000	19.24
176	tert-Amyl alcohol	59	4.627	4.627	(1.108)	206505	400.000	372.28(M)
151	4-Methyl-2-pentanol	45	6.712	6.712	(1.352)	666674	400.000	390.27(M)
180	1-Methylnaphthalene	142	12.635	12.635	(1.308)	150919	20.0000	(a)
140	1,3-Butadiene	54	1.167	1.167	(0.280)	123783	20.0000	18.97
152	Amyl alcohol	42	6.907	6.907	(0.901)	79891	400.000	377.87(M)
158	Dichlorofluoromethane	67	1.535	1.535	(0.367)	158942	20.0000	19.42
159	Propylene oxide	43	1.808	1.808	(0.433)	26882	40.0000	43.15
161	3-Methyl-1-butanol	55	6.907	6.907	(0.901)	65296	400.000	360.74
162	Butyl acrylate	55	8.252	8.252	(1.076)	278950	20.0000	19.94
163	Butyl methacrylate	41	9.167	9.167	(0.949)	181860	20.0000	19.36
164	Dicyclopentadiene	66	9.681	9.681	(1.002)	449218	20.0000	19.88
182	Epichlorohydrin	57	6.101	6.101	(1.229)	46921	80.0000	78.80
M 94	1,2-Dichloroethylene (total)	96				189674	40.0000	(a)
145	alpha-Methylstyrene	118	9.257	9.257	(0.958)	161241	20.0000	18.84
130	Ethyl Acetate	43	3.660	3.660	(0.876)	156852	20.0000	20.79
134	Cyclohexanone	55	8.642	8.642	(0.894)	143296	400.000	410.46(a)
185	Isoprene	39	1.771	1.771	(0.424)	34997	20.0000	20.90
188	Isopropyl acetate	43	4.680	4.680	(0.943)	402950	20.0000	19.17

187 n-Amyl acetate	43	8.451	8.451 (1.102)	257831	20.0000	19.13
189 n-Butyl acetate	43	7.214	7.214 (0.941)	233185	20.0000	20.69(H)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
150 Allyl alcohol	57	2.772	2.772	(0.664)	106667	400.000	460.03
194 Acetaldehyde	44	1.212	1.212	(0.290)	39093	80.0000	72.86(M)
195 Methyl Amyl Ketone	43	8.380	8.380	(1.093)	308846	20.0000	20.09(H)
200 Dimethyl Disulfide	94	6.198	6.198	(0.808)	200098	20.0000	20.17
202 Isobutylene	41	1.242	1.242	(0.297)	17453	20.0000	20.78(M)
205 2-Ethylhexyl Acrylate	55	11.547	11.547	(1.195)	205728	20.0000	20.54

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.



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Client ID: VSTD020
Sample Info: VSTD020;VSTD020;1;6;
Purge Volume: 5.0
Column phase: DB624

Instrument: voa6.i
Operator: PC
Column diameter: 0.18

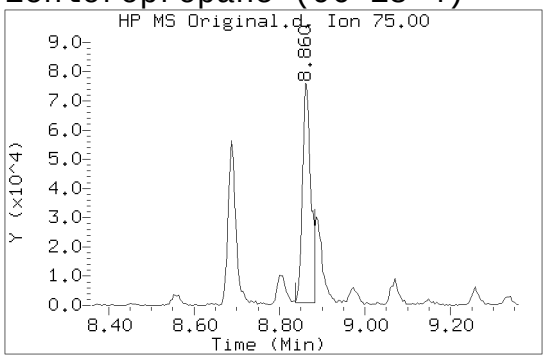
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230714.b\X071407.D
Inj Date : 14-JUL-2023 14:04
InstruID : voa6.i
LabSampID : VSTD020

1,2,3-Trichloropropane (96-18-4)

Reason Code:

BEFORE

MASS
75
AREA
106108
HEIGHT
74979
20-Jul-2023
15:04
linh
pham



AFTER

MASS
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20-Jul-2023
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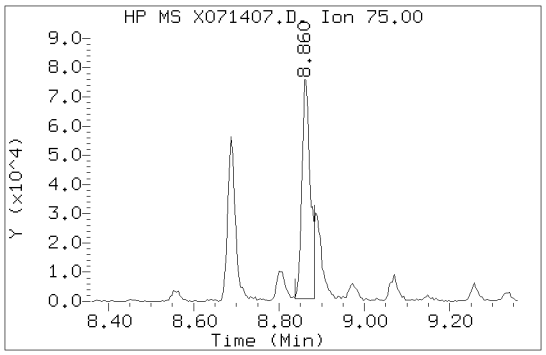

BEFORE

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25771
20-Jul-2023
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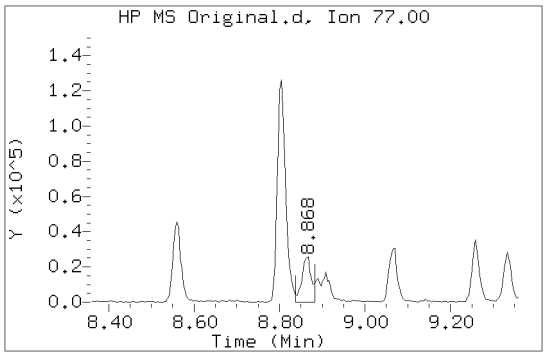
pham



AFTER

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20-Jul-2023
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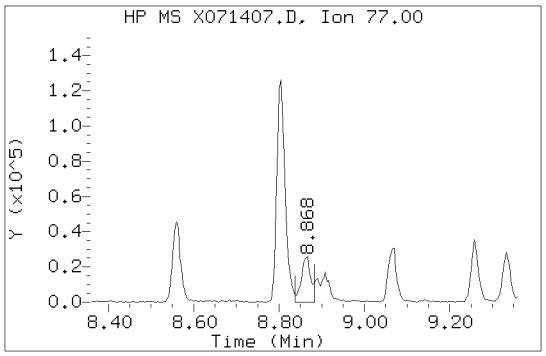

Chloroprene (126-99-8)

Reason Code:

BEFORE

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20-Jul-2023
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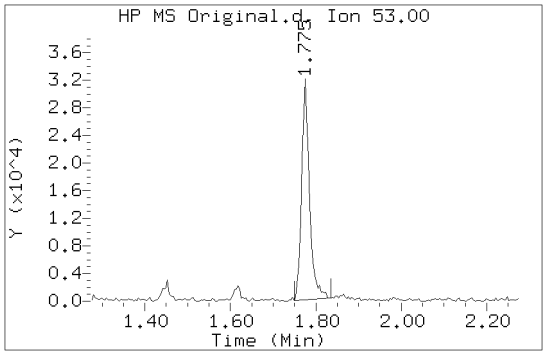

AFTER

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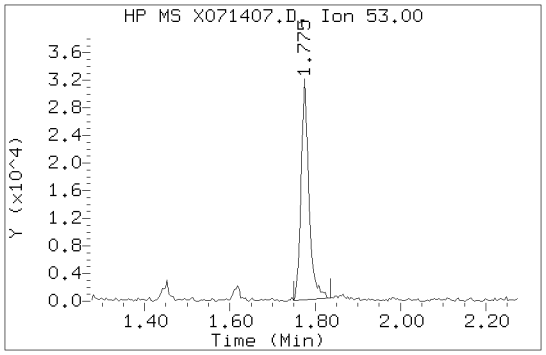

BEFORE

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AREA
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HEIGHT
0
20-Jul-2023
15:04
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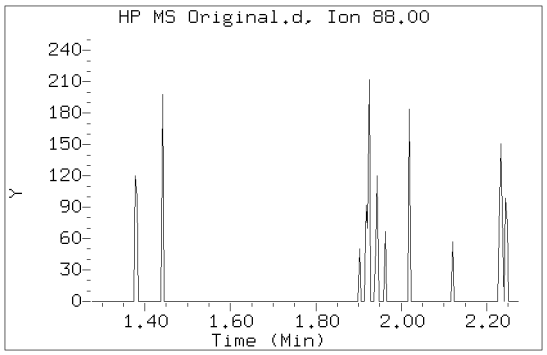

AFTER

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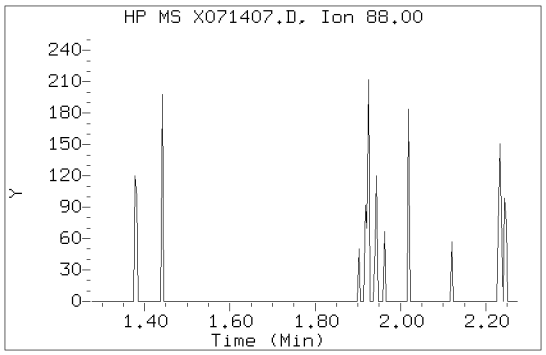

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Inj Date : 14-JUL-2023 14:04
InstruID : voa6.i
LabSampID : VSTD020

Freon TF (76-13-1)

Reason Code:

BEFORE

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HEIGHT
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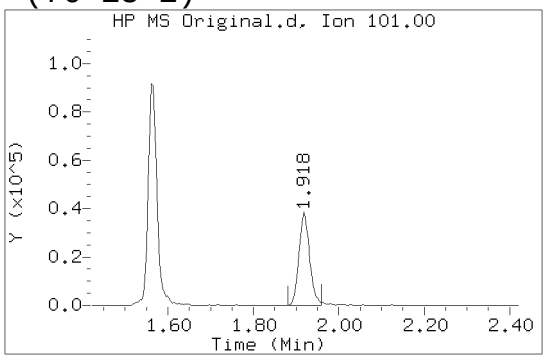
20-Jul-2023
15:04
linh
pham



AFTER

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67796
HEIGHT
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20-Jul-2023
15:04
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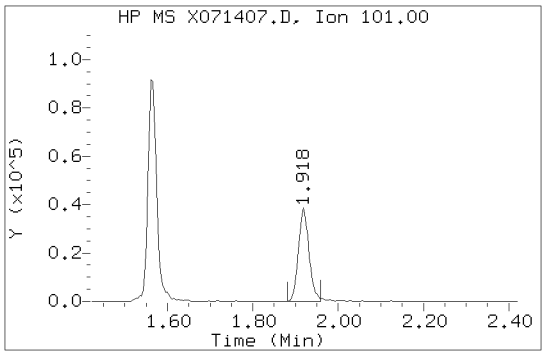
pham



BEFORE

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20-Jul-2023
15:04
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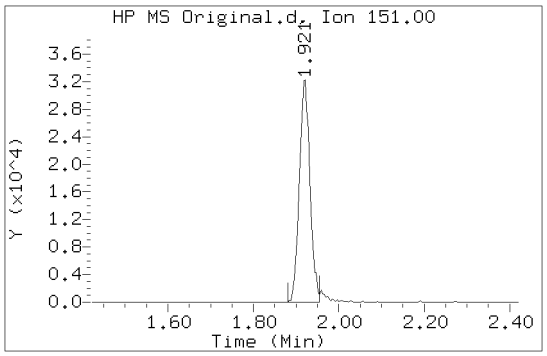

AFTER

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20-Jul-2023
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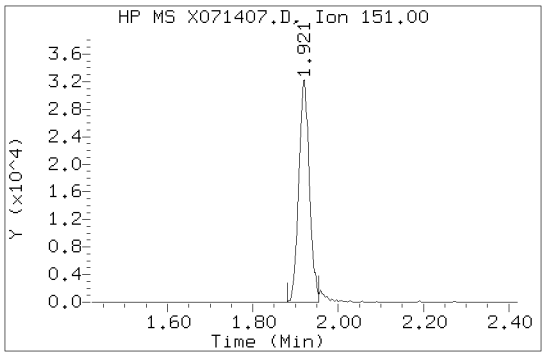

Methylcyclohexane (108-87-2)

Reason Code:

BEFORE

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AREA
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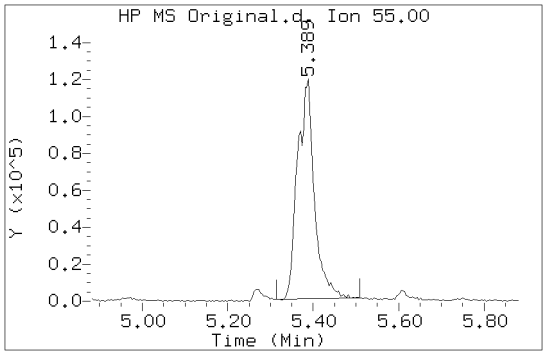
HEIGHT
118927
20-Jul-2023
15:04
linh
pham



AFTER

MASS
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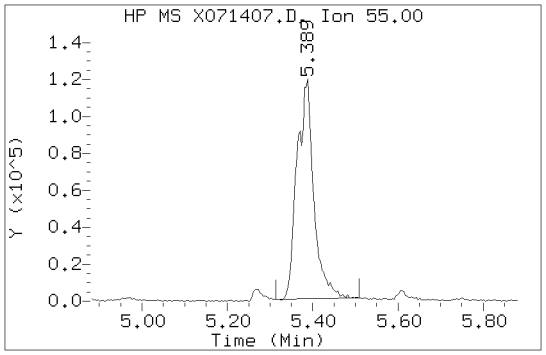
HEIGHT
118927
20-Jul-2023
15:04
linh
pham



BEFORE

MASS
83
AREA
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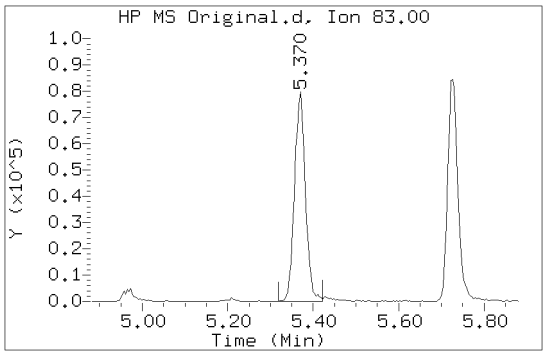
HEIGHT
79744
20-Jul-2023
15:04
linh
pham



AFTER

MASS
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AREA
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HEIGHT
79744
20-Jul-2023
15:04
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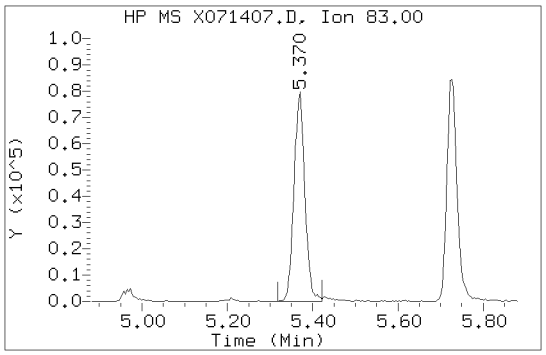

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Inj Date : 14-JUL-2023 14:04
InstruID : voa6.i
LabSampID : VSTD020

4-Methyl-2-pentanol (108-11-2)

Reason Code:

BEFORE

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AREA
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HEIGHT
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20-Jul-2023
15:04
linh
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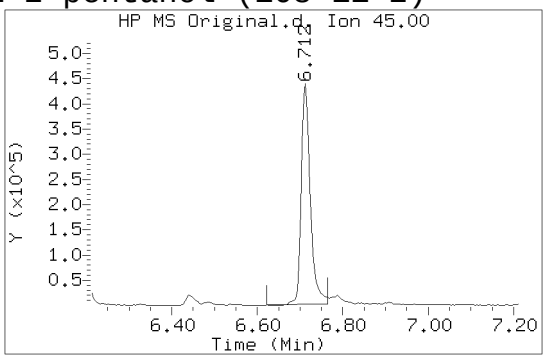

AFTER

MASS
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AREA
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HEIGHT
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20-Jul-2023
15:04
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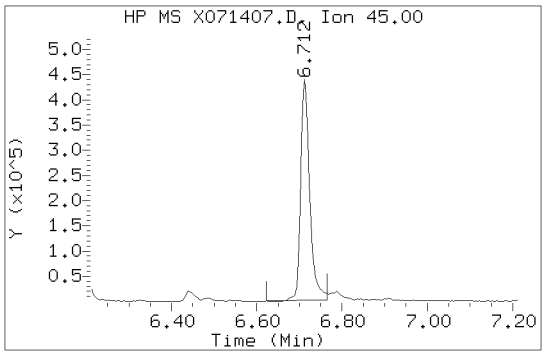

BEFORE

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AREA
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70395
20-Jul-2023
15:04
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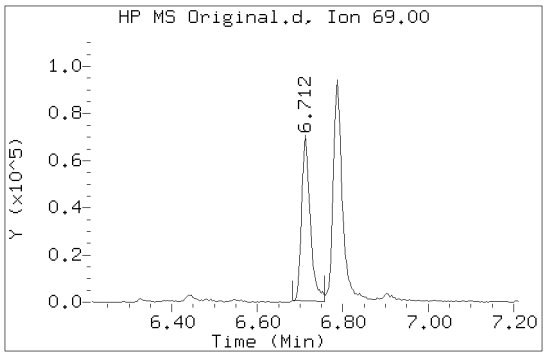

AFTER

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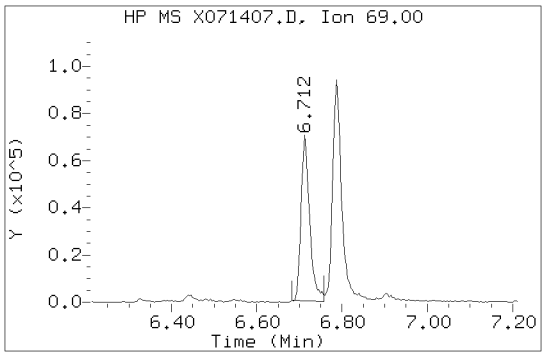

Amyl alcohol (71-41-0)

Reason Code:

BEFORE

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AREA
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HEIGHT
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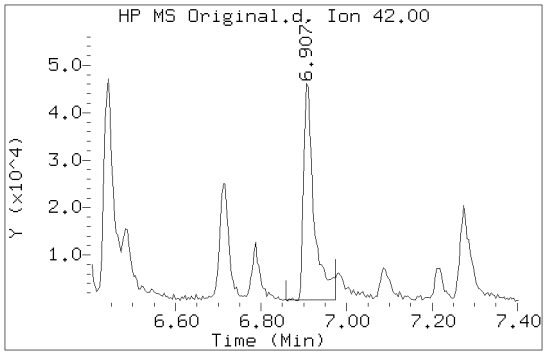
20-Jul-2023
15:04
linh
pham



AFTER

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AREA
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HEIGHT
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20-Jul-2023
15:04
linh
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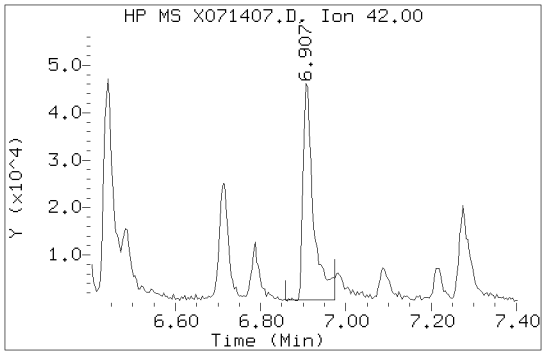

BEFORE

MASS
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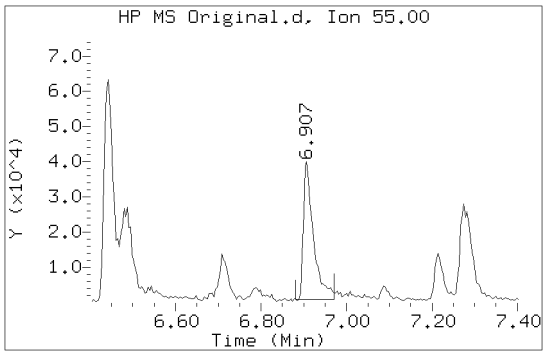
AREA
65296
HEIGHT
39055
20-Jul-2023
15:04
linh
pham



AFTER

MASS
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AREA
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HEIGHT
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20-Jul-2023
15:04
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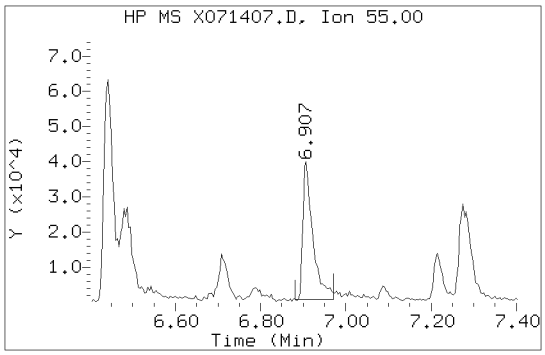

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Inj Date : 14-JUL-2023 14:04
InstruID : voa6.i
LabSampID : VSTD020

Amyl alcohol (71-41-0)

Reason Code:

BEFORE

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HEIGHT
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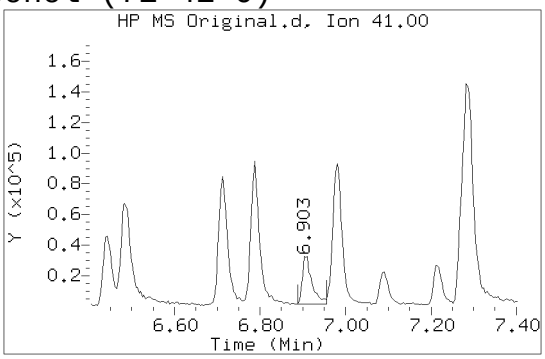
20-Jul-2023
15:04
linh
pham



AFTER

MASS
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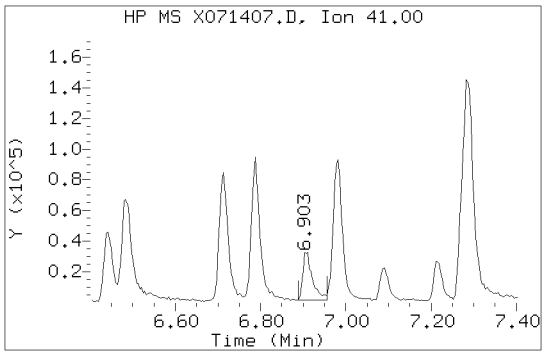

tert-Butyl formate (762-75-4)

Reason Code:

BEFORE

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AREA
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HEIGHT
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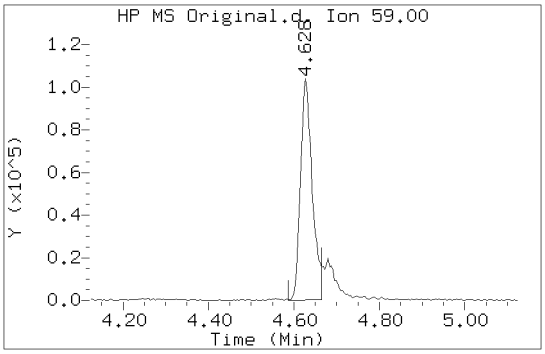
20-Jul-2023
15:04
linh
pham



AFTER

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15:04
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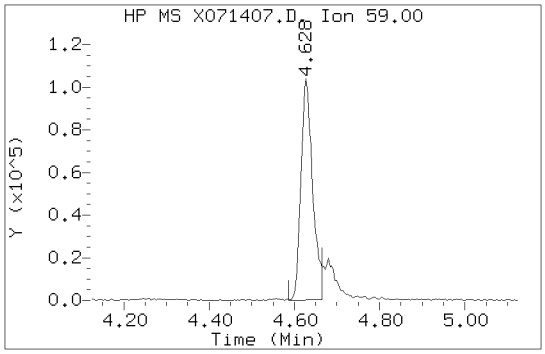

BEFORE

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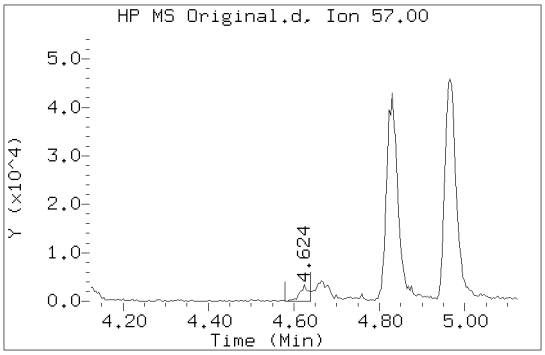
15:04
linh
pham



AFTER

MASS
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HEIGHT
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20-Jul-2023
15:04
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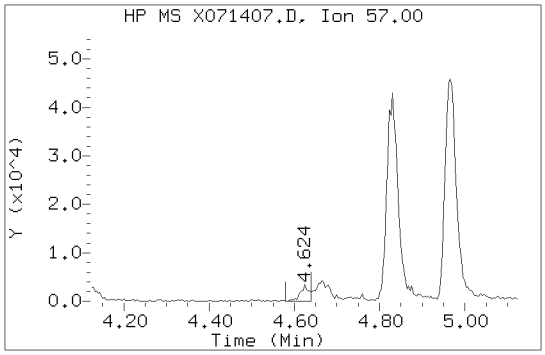

BEFORE

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20-Jul-2023
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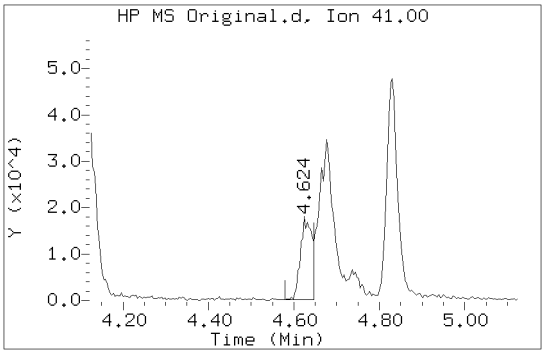

AFTER

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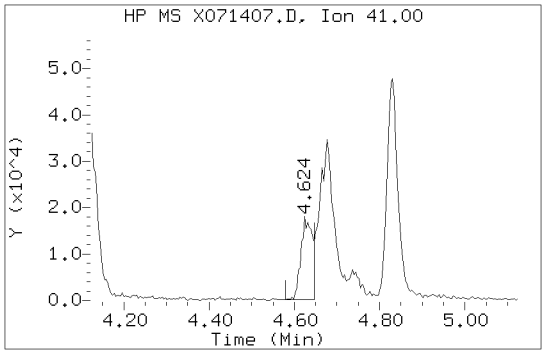

Data File : \\NAHSTWS005\Target\chem\voa6.i\X230714.b\X071407.D
Inj Date : 14-JUL-2023 14:04
InstruID : voa6.i
LabSampID : VSTD020

tert-Amyl alcohol (75-85-4)

Reason Code:

BEFORE
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AREA
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20-Jul-2023
15:04
linh
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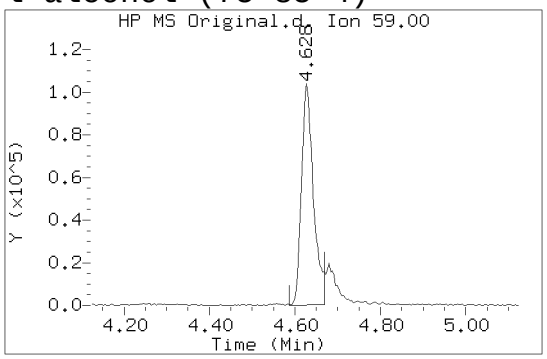

AFTER
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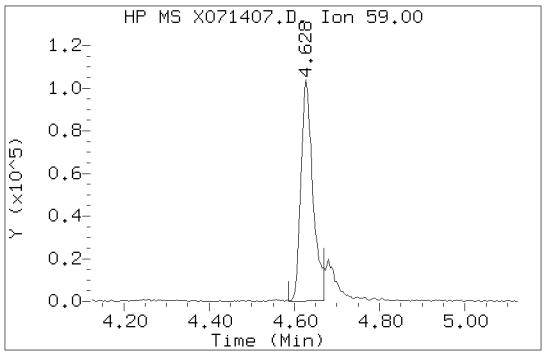

BEFORE
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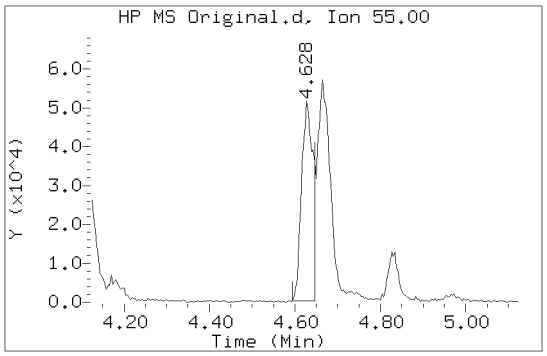
AREA
96489
HEIGHT
51399
20-Jul-2023
15:04
linh
pham



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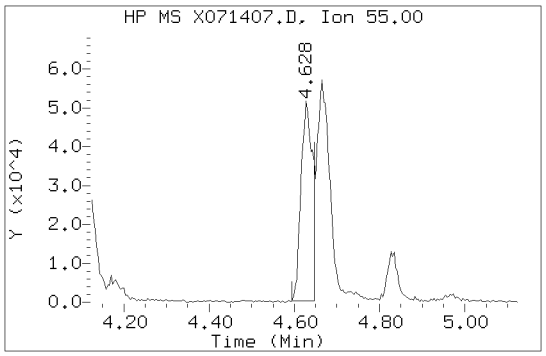

BEFORE
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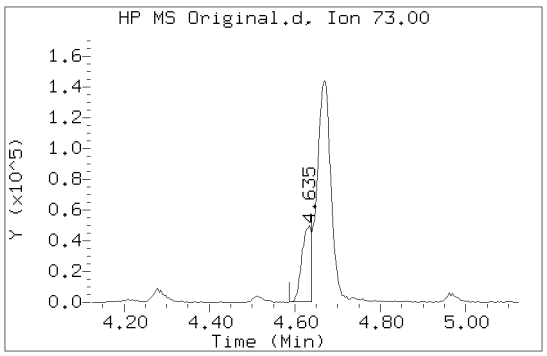

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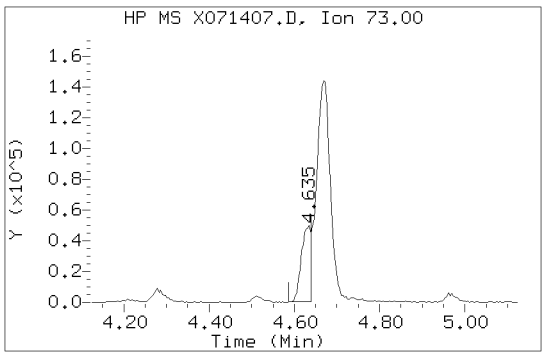

Acetaldehyde (75-07-0)

Reason Code:

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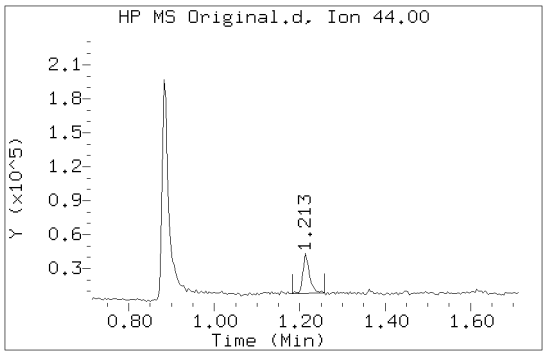

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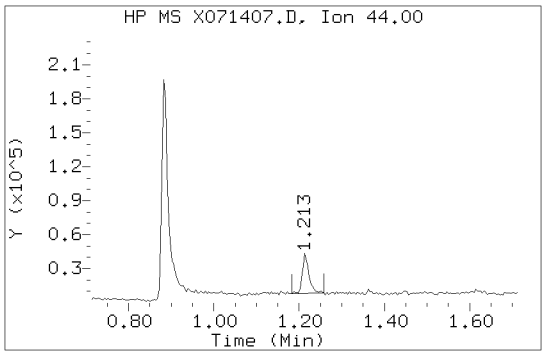

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Inj Date : 14-JUL-2023 14:04
InstruID : voa6.i
LabSampID : VSTD020

Acetaldehyde (75-07-0)

BEFORE

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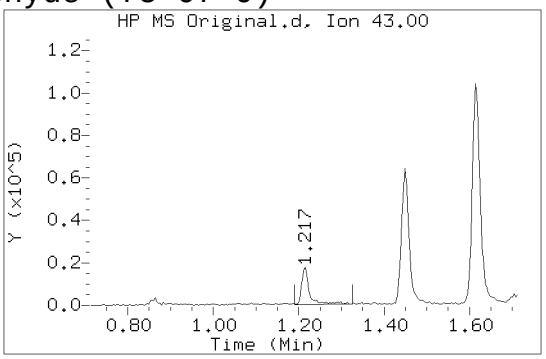

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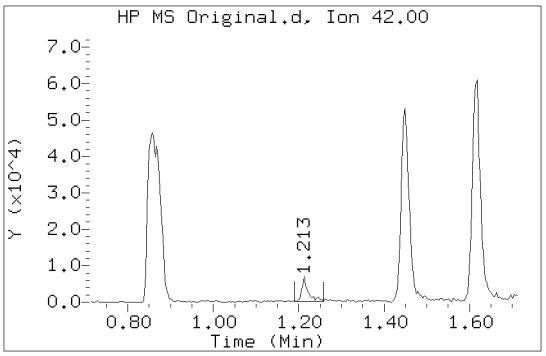

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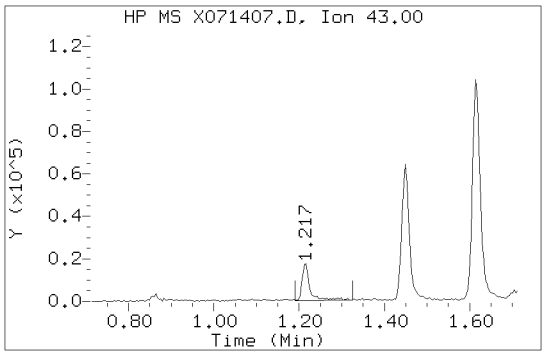

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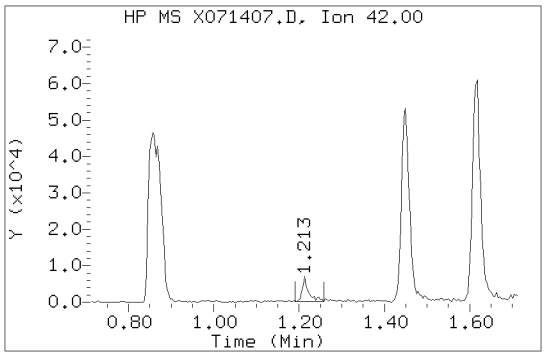

Isobutylene (115-11-7)

BEFORE

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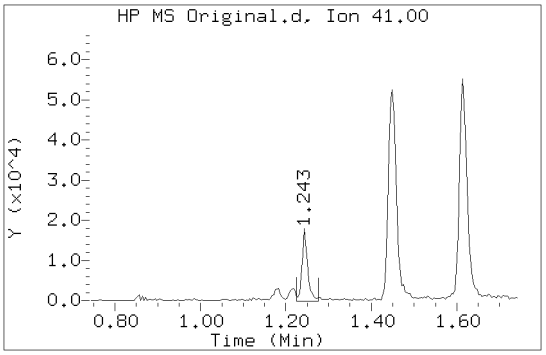

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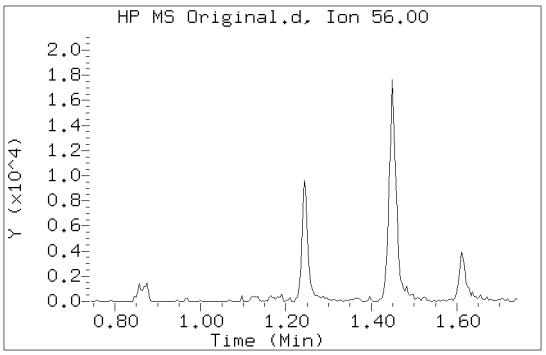

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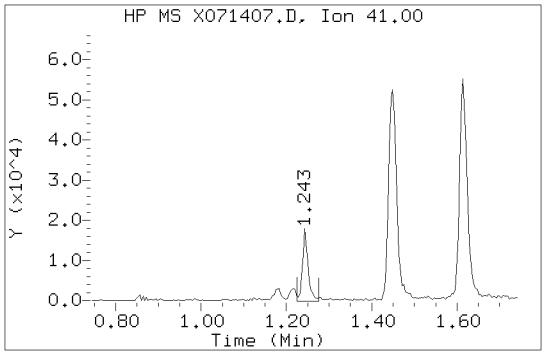

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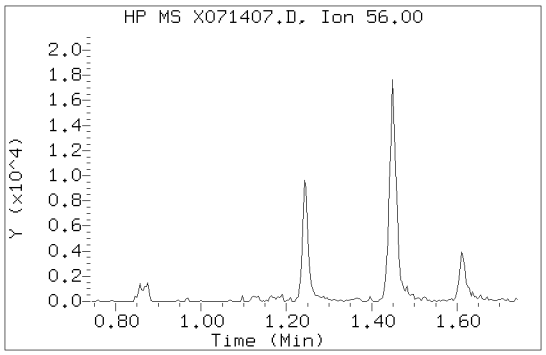

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InstruID : voa6.i
LabSampID : VSTD020

Isobutylene (115-11-7)

Reason Code:

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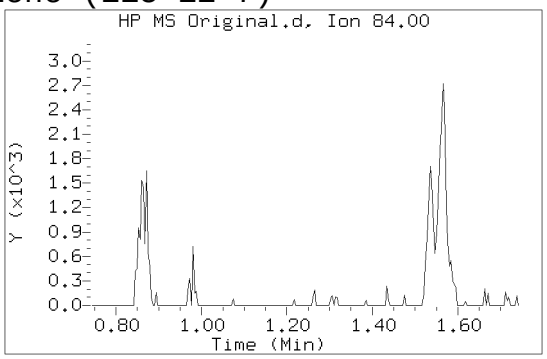

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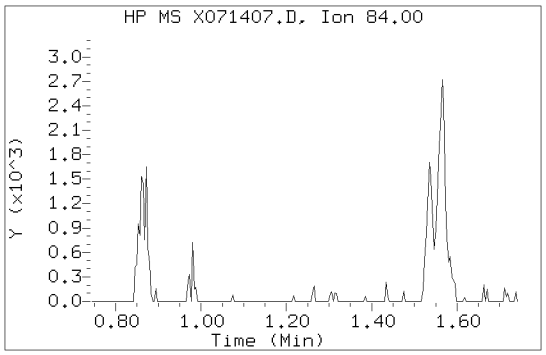

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Reason Code:

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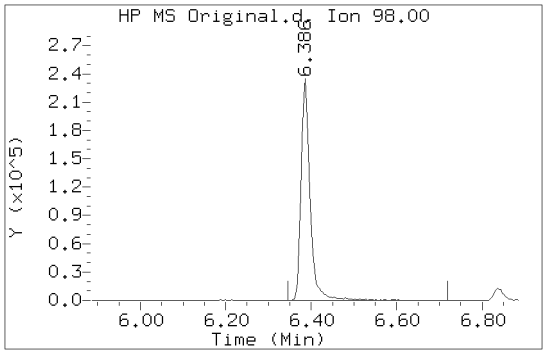

AFTER

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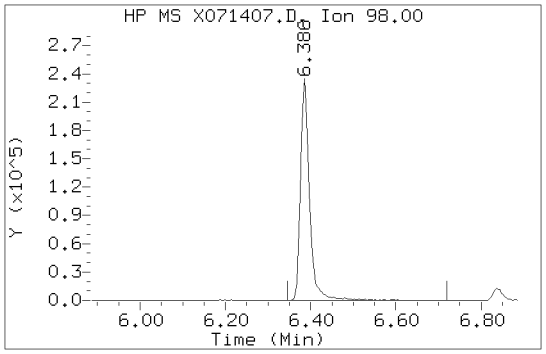

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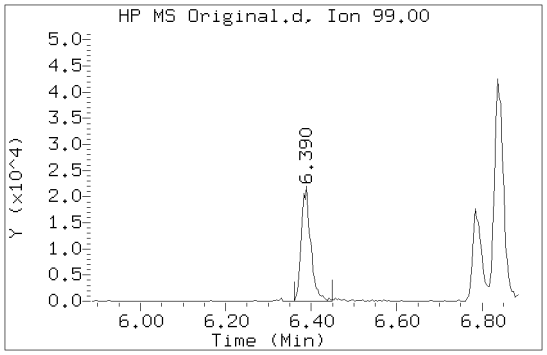

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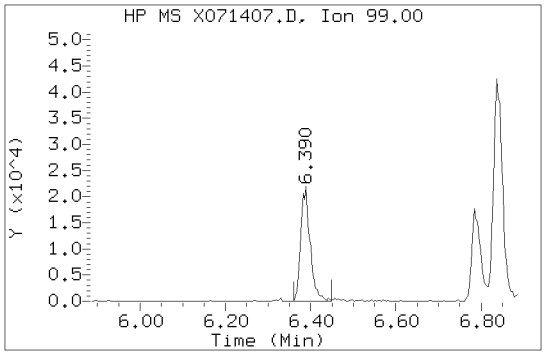

BEFORE

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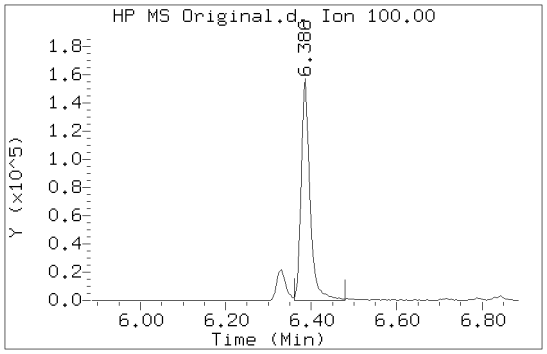

AFTER

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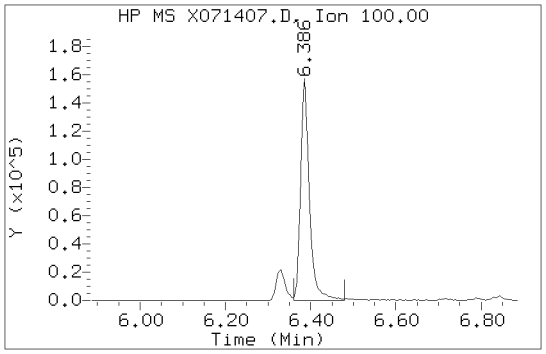

ALS Laboratory Group

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Inj Date : 14-JUL-2023 14:24
Operator : PC Inst ID: voa6.i
Smp Info : VSTD050;VSTD050;1;7;
Misc Info : V6;WATER;0;1;
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Cal Date : 14-JUL-2023 14:04 Cal File: X071407.D
Als bottle: 9 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1 Pentafluorobenzene	168	4.178	4.178	(1.000)	523013	50.0000	
2 Dichlorodifluoromethane	85	0.976	0.976	(0.234)	235300	50.0000	44.11
3 Chloromethane	50	1.081	1.081	(0.259)	354356	50.0000	44.85
4 Propionitrile	54	3.656	3.656	(0.875)	492839	500.000	475.69
5 Vinyl Chloride	62	1.145	1.145	(0.274)	318113	50.0000	47.00
6 Bromomethane	94	1.344	1.344	(0.322)	131891	50.0000	47.09
7 Chloroethane	64	1.407	1.407	(0.337)	180308	50.0000	46.66
8 Trichlorofluoromethane	101	1.561	1.561	(0.374)	315333	50.0000	45.97
9 Acrolein	56	1.861	1.861	(0.446)	19251	100.000	97.23(H)
10 Acetone	43	1.973	1.973	(0.472)	210033	100.000	101.57
11 1,1-Dichloroethene	96	1.913	1.913	(0.458)	183746	50.0000	47.95
12 Isobutyl Alcohol	43	4.680	4.680	(1.120)	992232	1000.00	1000.83
13 Acetonitrile	39	2.198	2.198	(0.526)	357196	500.000	487.03
14 Allyl Chloride	41	2.198	2.198	(0.526)	798138	50.0000	46.48
15 Iodomethane	142	2.030	2.030	(0.486)	473625	100.000	94.10
16 Acrylonitrile	53	2.532	2.532	(0.606)	235726	100.000	92.49
17 Methylene Chloride	84	2.307	2.307	(0.552)	228969	50.0000	50.65
18 Methyl tert-butyl ether	73	2.539	2.539	(0.608)	669525	50.0000	46.98
19 Carbon Disulfide	76	2.071	2.071	(0.496)	1141643	100.000	94.78
20 trans-1,2-Dichloroethene	96	2.528	2.528	(0.605)	211279	50.0000	47.66

21 Vinyl Acetate	43	2.997	2.997 (0.717)	1752870	100.000	95.62
22 1,1-Dichloroethane	63	2.922	2.922 (0.699)	470383	50.0000	48.36

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	23 Chloroprene	53	1.775	1.775	(0.425)	101850	50.0000	43.31(M)
	24 2-Butanone	43	3.582	3.582	(0.857)	268410	100.000	96.36
	25 Methacrylonitrile	41	3.821	3.821	(0.915)	328284	50.0000	48.62(a)
	26 2,2-Dichloropropane	77	3.507	3.507	(0.839)	357279	50.0000	47.33
	27 cis-1,2-Dichloroethene	96	3.525	3.525	(0.844)	274899	50.0000	48.68
	28 Chloroform	83	3.904	3.904	(0.935)	470821	50.0000	47.31
	29 Bromochloromethane	128	3.791	3.791	(0.908)	149658	50.0000	47.29
$	30 Dibromofluoromethane	113	4.099	4.099	(0.981)	227290	50.0000	47.37
	31 1,1,1-Trichloroethane	97	4.084	4.084	(0.978)	366818	50.0000	47.88
	32 1,1-Dichloropropene	75	4.279	4.279	(0.862)	311339	50.0000	45.93
	33 1,2-Dichloroethane	62	4.556	4.556	(0.918)	432993	50.0000	47.34
	34 Carbon Tetrachloride	117	4.268	4.268	(0.860)	295641	50.0000	43.30
$	35 1,2-Dichloroethane-d4	65	4.470	4.470	(1.070)	282994	50.0000	47.17
*	36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	830857	50.0000	
	37 Benzene	78	4.511	4.511	(0.909)	951794	50.0000	47.89
	38 Trichloroethene	130	5.205	5.205	(1.048)	268578	50.0000	47.77
	39 Bromodichloromethane	83	5.722	5.722	(1.153)	359212	50.0000	47.18
	40 Methyl Methacrylate	41	5.606	5.606	(1.342)	290569	50.0000	46.03
	41 2-Chloroethylvinyl ether	63	6.048	6.048	(1.218)	231938	100.000	99.79
	42 1,2-Dichloropropane	63	5.433	5.433	(1.094)	313347	50.0000	49.03
	43 2-Nitropropane	43	5.969	5.969	(1.429)	96529	50.0000	46.45
	44 Dibromomethane	93	5.550	5.550	(1.118)	168989	50.0000	46.71
	45 4-Methyl-2-Pentanone	43	6.326	6.326	(0.825)	688236	100.000	93.62
	46 cis-1,3-Dichloropropene	75	6.153	6.153	(1.239)	425194	50.0000	48.63
*	47 Chlorobenzene-d5	117	7.668	7.668	(1.000)	747052	50.0000	
$	48 Toluene-d8	98	6.385	6.385	(0.833)	806003	50.0000	41.90(M)
	49 Ethyl Methacrylate	69	6.712	6.712	(1.352)	223750	50.0000	41.11
	50 Toluene	91	6.445	6.445	(0.841)	1011174	50.0000	50.28
	51 trans-1,3-Dichloropropene	75	6.678	6.678	(1.345)	351933	50.0000	47.75
	52 2-Hexanone	43	7.086	7.086	(0.924)	449229	100.000	93.02
	53 1,1,2-Trichloroethane	83	6.835	6.835	(0.891)	205411	50.0000	48.15
	54 1,3-Dichloropropane	76	6.978	6.978	(0.910)	420354	50.0000	48.23
	55 Dibromochloromethane	129	7.173	7.173	(0.935)	303363	50.0000	49.25
	56 Tetrachloroethene	164	6.925	6.925	(0.903)	200679	50.0000	48.30
	57 1,2-Dibromoethane	107	7.259	7.259	(0.947)	231339	50.0000	47.45
	58 1-Chlorohexane	55	7.694	7.694	(1.550)	276645	50.0000	41.44
	59 Chlorobenzene	112	7.690	7.690	(1.003)	673755	50.0000	47.92
	60 1,1,1,2-Tetrachloroethane	131	7.772	7.772	(1.014)	270349	50.0000	49.12
	61 Ethylbenzene	106	7.795	7.795	(1.017)	339019	50.0000	48.09
	62 m,p-Xylenes	106	7.900	7.900	(1.030)	871877	100.000	98.59
	63 o-Xylene	106	8.237	8.237	(1.074)	410767	50.0000	49.05
	64 Styrene	104	8.256	8.256	(1.077)	730009	50.0000	49.97
	66 Bromoform	173	8.406	8.406	(1.096)	197185	50.0000	49.90
	67 Isopropylbenzene	105	8.560	8.560	(1.116)	1023144	50.0000	47.53
	68 1,1,2,2-Tetrachloroethane	83	8.837	8.837	(0.915)	323110	50.0000	46.71
$	69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	355682	50.0000	47.79
*	70 1,4-Dichlorobenzene-d4	152	9.658	9.658	(1.000)	411751	50.0000	
	71 1,2,3-Trichloropropane	75	8.860	8.860	(0.917)	256294	50.0000	46.70(M)
	72 trans-1,4-Dichloro-2-butene	53	8.886	8.886	(1.159)	113164	50.0000	49.80
	73 n-Propylbenzene	91	8.908	8.908	(0.922)	1199683	50.0000	48.21
	74 Bromobenzene	156	8.803	8.803	(0.912)	304391	50.0000	47.26
	75 1,3,5-Trimethylbenzene	105	9.062	9.062	(0.938)	873751	50.0000	46.87

76	2-Chlorotoluene	91	8.972	8.972 (0.929)	787863	50.0000	46.93
77	4-Chlorotoluene	91	9.066	9.066 (0.939)	904673	50.0000	49.04

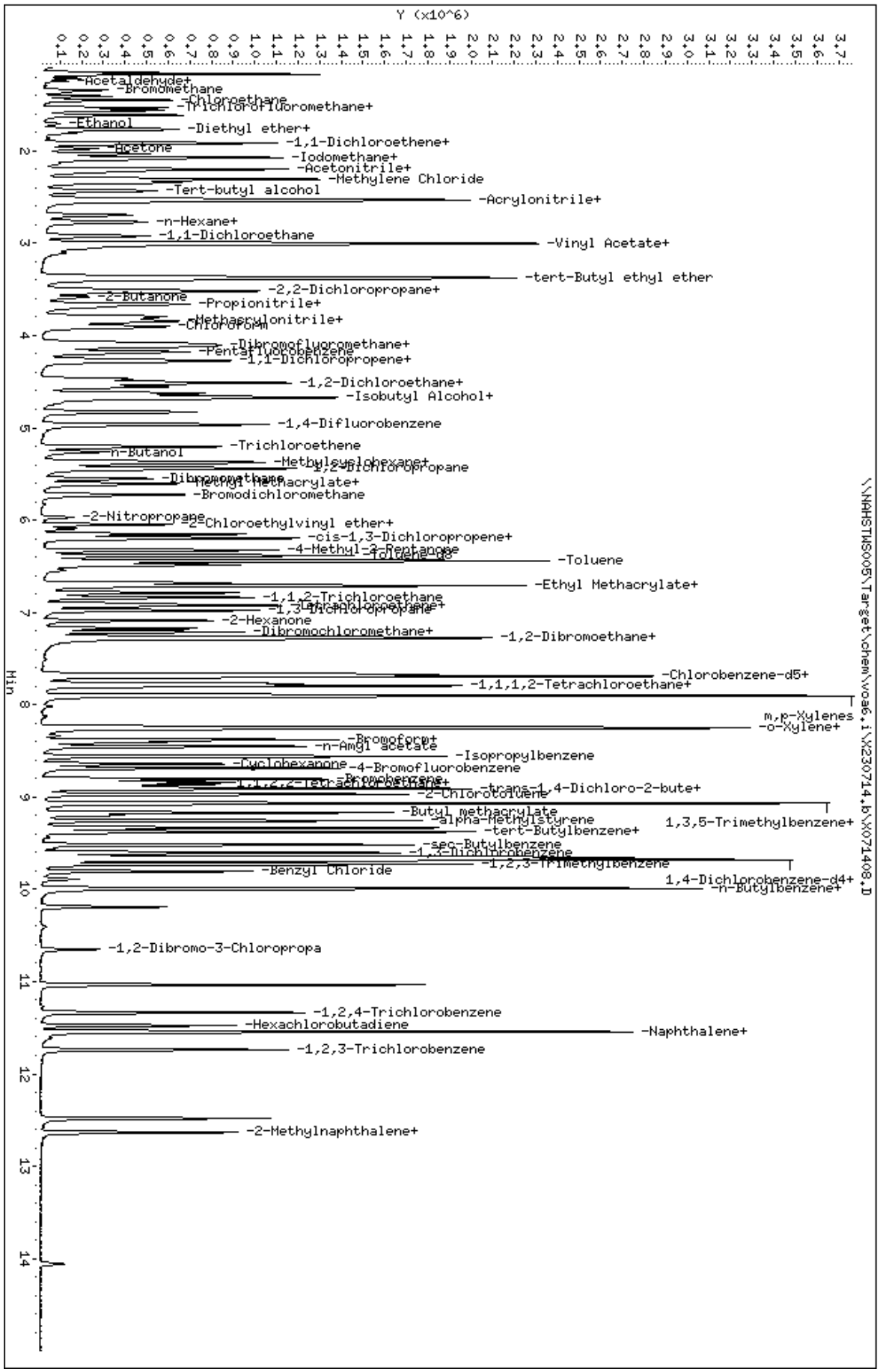
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)	
78	tert-Butylbenzene	119	9.336	9.336	(0.967)	722967	50.0000	45.22	
79	1,2,4-Trimethylbenzene	105	9.377	9.377	(0.971)	872776	50.0000	46.69	
81	sec-Butylbenzene	105	9.519	9.519	(0.986)	982642	50.0000	46.11	
82	p-Isopropyltoluene	119	9.647	9.647	(0.999)	896333	50.0000	46.05	
83	1,3-Dichlorobenzene	146	9.602	9.602	(0.994)	530593	50.0000	47.29	
84	1,4-Dichlorobenzene	146	9.681	9.681	(1.002)	570511	50.0000	46.38	
86	Benzyl Chloride	91	9.804	9.804	(1.279)	558112	50.0000	44.19	
87	n-Butylbenzene	91	9.992	9.992	(1.035)	755707	50.0000	46.35	
88	1,2-Dichlorobenzene	146	9.988	9.988	(1.034)	524864	50.0000	47.58	
89	1,2-Dibromo-3-Chloropropane	155	10.651	10.651	(1.103)	51434	50.0000	45.34	
90	1,2,4-Trichlorobenzene	180	11.334	11.334	(1.173)	331560	50.0000	43.77	
91	Hexachlorobutadiene	225	11.476	11.476	(1.188)	139894	50.0000	40.54	
92	Naphthalene	128	11.540	11.540	(1.195)	833003	50.0000	44.42	
93	1,2,3-Trichlorobenzene	180	11.739	11.739	(1.215)	307966	50.0000	43.47	
146	Methyl acetate	43	2.232	2.232	(0.534)	220729	50.0000	47.42	
138	Freon TF	101	1.917	1.917	(0.459)	154547	50.0000	48.17	
141	Cyclohexane	56	4.125	4.125	(0.987)	384719	50.0000	42.43	
142	Tetrahydrofuran	42	3.851	3.851	(0.922)	127806	100.000	94.98	
147	Methylcyclohexane	55	5.381	5.381	(1.084)	820341	50.0000	46.77	
135	1,4-Dioxane	88	5.602	5.602	(1.341)	56497	1000.00	909.04	
132	n-Butanol	56	5.261	5.261	(1.259)	163155	1000.00	937.09	
131	Methyl Acrylate	55	3.690	3.690	(0.883)	324862	50.0000	45.69	
133	Ethyl Acrylate	55	5.381	5.381	(1.288)	820341	50.0000	47.32	
136	n-Hexane	57	2.772	2.772	(0.664)	244351	50.0000	48.23	
139	Diethyl ether	59	1.760	1.760	(0.421)	229645	50.0000	47.08	
148	Tert-butyl alcohol	59	2.434	2.434	(0.583)	589524	1000.00	893.06	
149	Isopropyl alcohol	45	2.093	2.093	(0.501)	369866	1000.00	902.98	
156	Diisopropyl ether	45	3.004	3.004	(0.719)	1023782	50.0000	47.49	
166	1,2,3-Trimethylbenzene	105	9.729	9.729	(1.007)	931868	50.0000	48.95	
167	Ethanol	45	1.703	1.703	(0.408)	72445	1000.00	990.30	
172	tert-Butyl formate	59	4.627	4.627	(1.108)	483988	100.000	86.62	
173	3,3-Dimethyl-1-butanol	57	7.285	7.285	(0.950)	654787	1000.00	815.00	
174	tert-Amyl methyl ether	73	4.669	4.669	(1.118)	841588	50.0000	48.91	
175	tert-Butyl ethyl ether	59	3.379	3.379	(0.809)	1034229	50.0000	46.70	
176	tert-Amyl alcohol	59	4.627	4.627	(1.108)	483988	1000.00	847.08	
151	4-Methyl-2-pentanol	45	6.712	6.712	(1.352)	1443508	1000.00	810.70	
180	1-Methylnaphthalene	142	12.634	12.634	(1.308)	377609	50.0000		(a)
140	1,3-Butadiene	54	1.167	1.167	(0.280)	306107	50.0000	45.54	
152	Amyl alcohol	42	6.903	6.903	(0.900)	190741	1000.00	887.85	
158	Dichlorofluoromethane	67	1.535	1.535	(0.367)	398292	50.0000	47.26	
159	Propylene oxide	43	1.805	1.805	(0.432)	59535	100.000	92.78	
161	3-Methyl-1-butanol	55	6.903	6.903	(0.900)	178568	1000.00	970.88	
162	Butyl acrylate	55	8.249	8.249	(1.076)	713652	50.0000	50.21	
163	Butyl methacrylate	41	9.167	9.167	(0.949)	474324	50.0000	48.09	
164	Dicyclopentadiene	66	9.681	9.681	(1.002)	1133352	50.0000	47.78	
182	Epichlorohydrin	57	6.093	6.093	(1.227)	118291	200.000	190.60	
M 94	1,2-Dichloroethylene (total)	96				486178	100.000		(a)
145	alpha-Methylstyrene	118	9.257	9.257	(0.958)	421857	50.0000	46.96	
130	Ethyl Acetate	43	3.660	3.660	(0.876)	368212	50.0000	47.39	
134	Cyclohexanone	55	8.642	8.642	(0.895)	325236	1000.00	887.25	
185	Isoprene	39	1.775	1.775	(0.425)	78291	50.0000	45.41	
188	Isopropyl acetate	43	4.680	4.680	(0.943)	992232	50.0000	45.29	

187 n-Amyl acetate	43	8.451	8.451 (1.102)	605401	50.0000	44.21
189 n-Butyl acetate	43	7.210	7.210 (0.940)	548658	50.0000	47.91(H)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
150 Allyl alcohol	57	2.772	2.772	(0.664)	244351	1000.00	964.89
194 Acetaldehyde	44	1.212	1.212	(0.290)	101552	200.000	218.25(M)
195 Methyl Amyl Ketone	43	8.380	8.380	(1.093)	719543	50.0000	46.08
200 Dimethyl Disulfide	94	6.194	6.194	(0.808)	522090	50.0000	51.81
202 Isobutylene	41	1.242	1.242	(0.297)	36655	50.0000	42.38(M)
205 2-Ethylhexyl Acrylate	55	11.547	11.547	(1.196)	561357	50.0000	53.37

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.



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Client ID: VSTD050
Sample Info: VSTD050;VSTD050;1;7;
Purge Volume: 5.0
Column phase: DB624

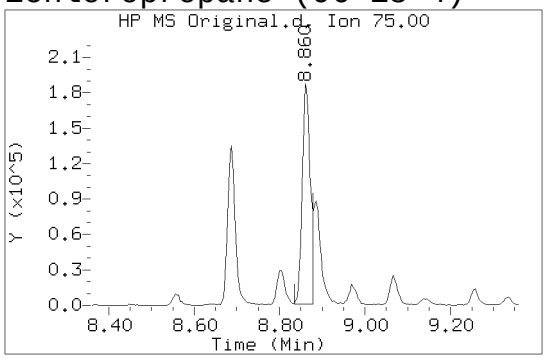
Instrument: voa6.i
Operator: PC
Column diameter: 0.18

Data File : \\NAHSTWS005\Target\chem\voa6.i\X230714.b\X071408.D
Inj Date : 14-JUL-2023 14:24
InstruID : voa6.i
LabSampID : VSTD050

1,2,3-Trichloropropane (96-18-4)

BEFORE

MASS
75
AREA
256294
HEIGHT
186871
20-Jul-2023
15:04
linh
pham



BEFORE

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HEIGHT
60865
20-Jul-2023
15:04
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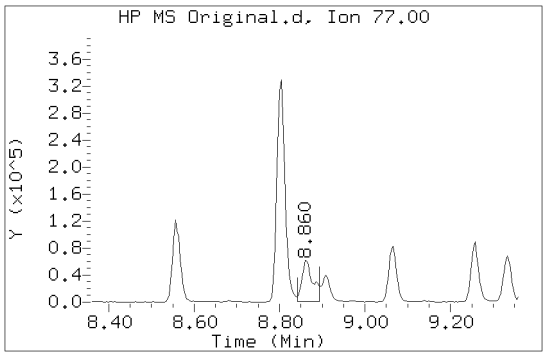
pham



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AFTER

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HEIGHT
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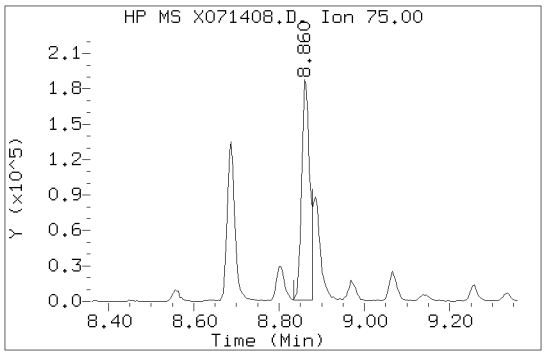

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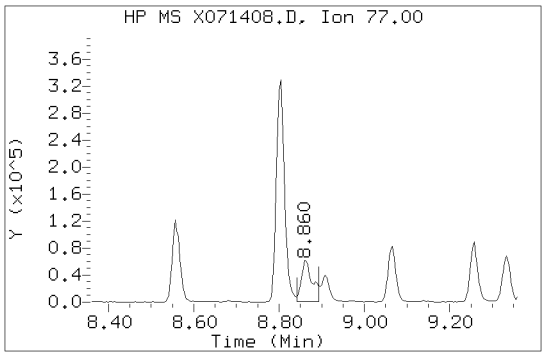

Chloroprene (126-99-8)

BEFORE

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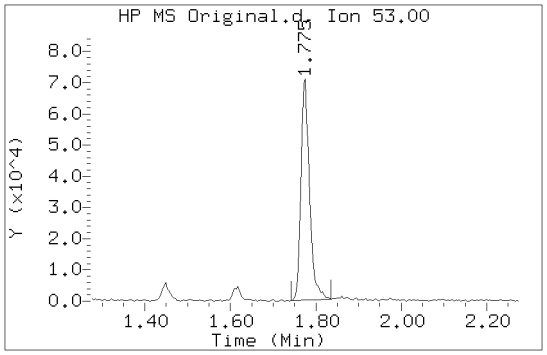

BEFORE

MASS
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AREA
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20-Jul-2023
15:04
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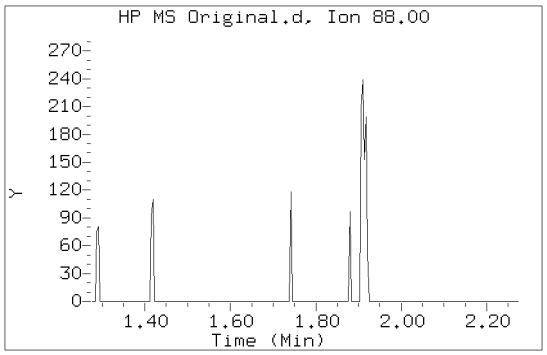

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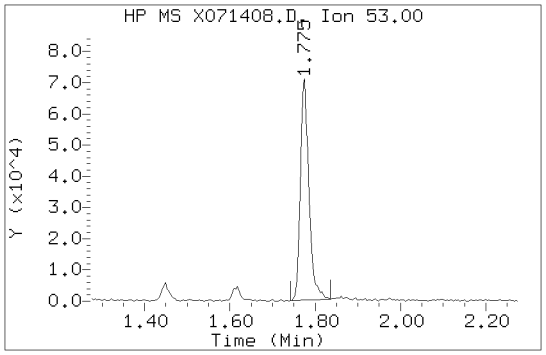

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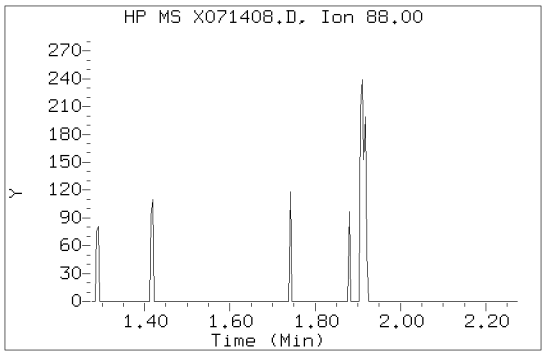

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InstruID : voa6.i
LabSampID : VSTD050

Acetaldehyde (75-07-0)

Reason Code:

BEFORE

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HEIGHT
86521
20-Jul-2023
15:04
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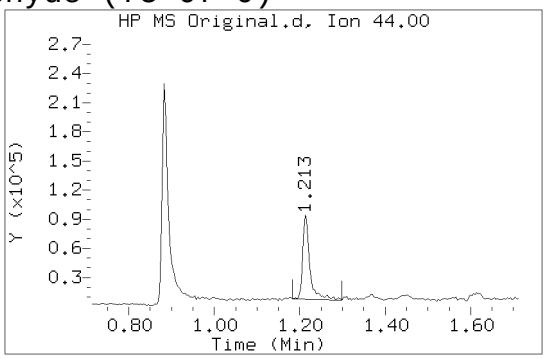
pham



AFTER

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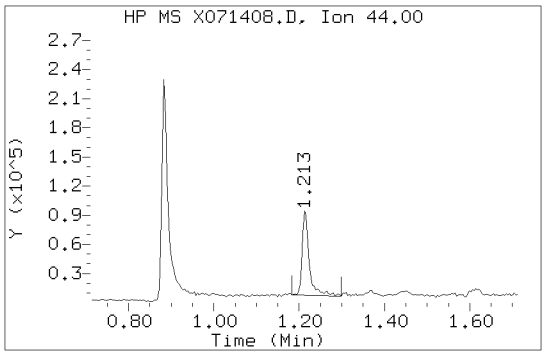

BEFORE

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48775
20-Jul-2023
15:04
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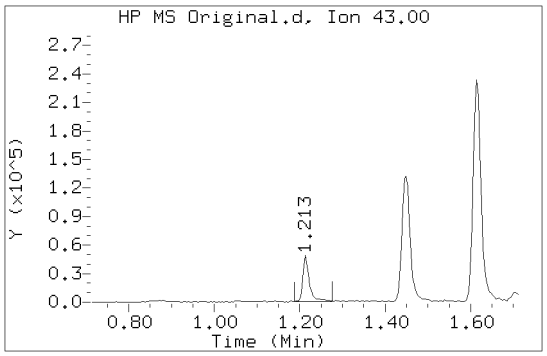

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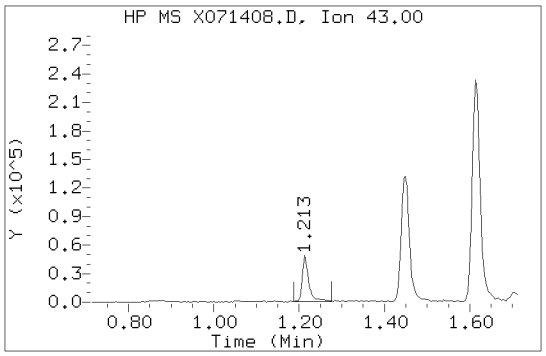

BEFORE

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20-Jul-2023
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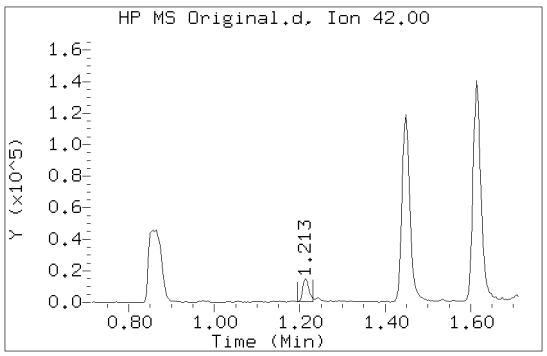

AFTER

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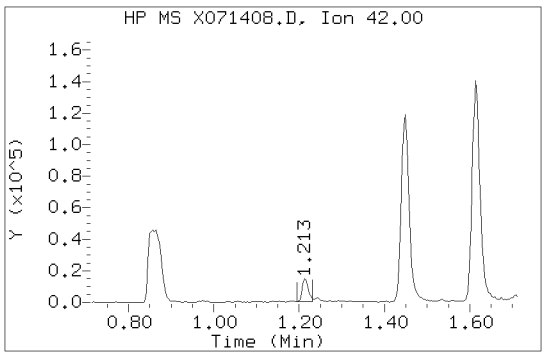

Isobutylene (115-11-7)

Reason Code:

BEFORE

MASS
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AREA
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HEIGHT
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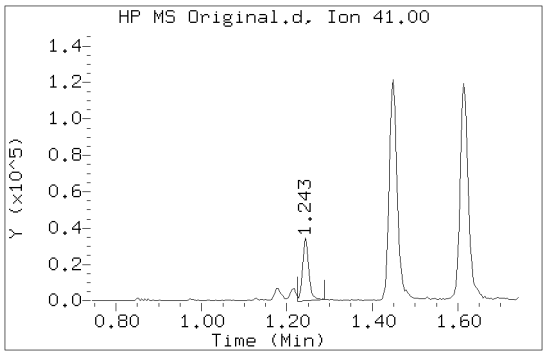
20-Jul-2023
15:04
linh
pham



AFTER

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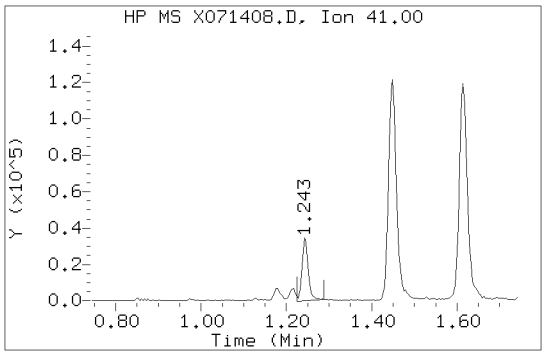

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Inj Date : 14-JUL-2023 14:24
InstruID : voa6.i
LabSampID : VSTD050

Isobutylene (115-11-7)

BEFORE

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HEIGHT
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20-Jul-2023
15:04
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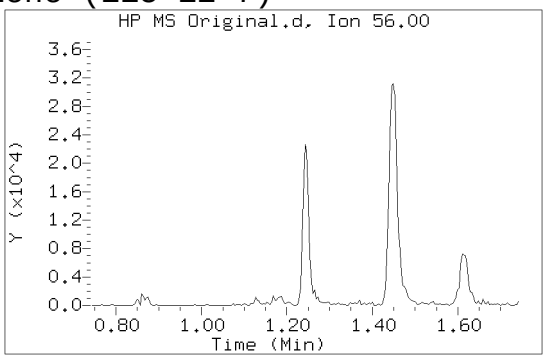

BEFORE

MASS
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AREA
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20-Jul-2023
15:04
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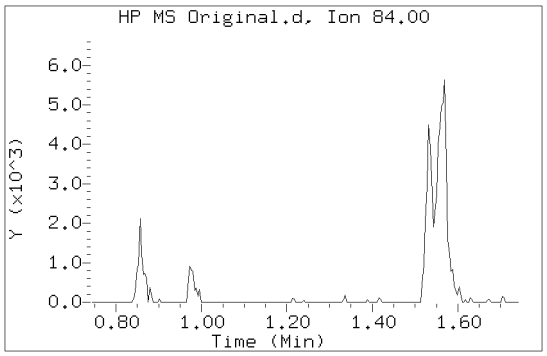

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AFTER

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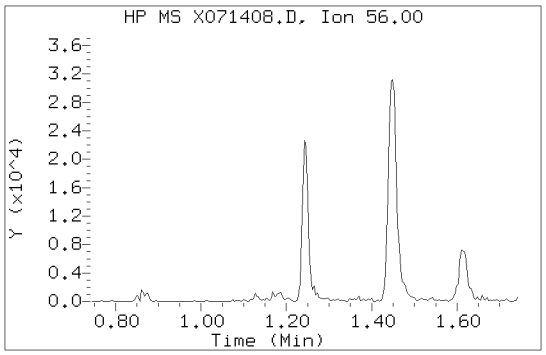

AFTER

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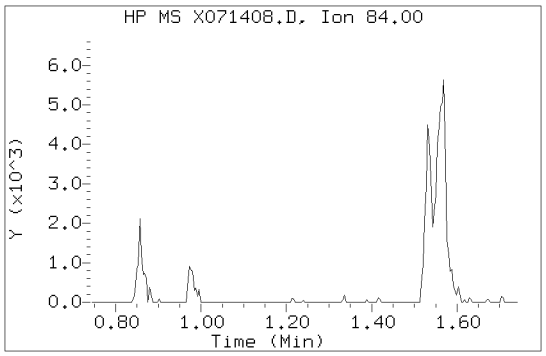

Toluene-d8 (2037-26-5)

BEFORE

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AREA
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HEIGHT
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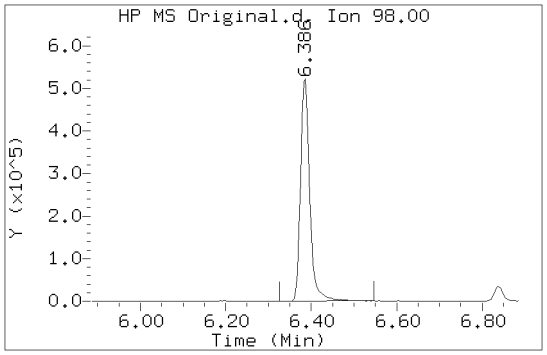
20-Jul-2023
15:04
linh
pham



BEFORE

MASS
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AREA
75189
HEIGHT
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20-Jul-2023
15:04
linh
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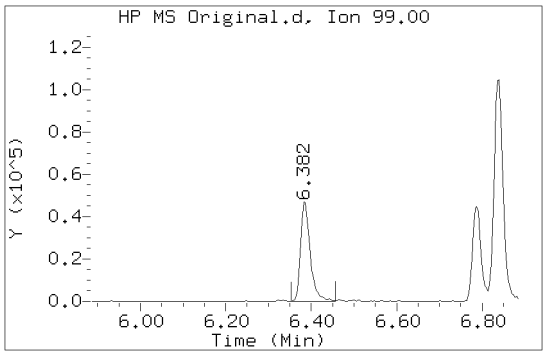

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AFTER

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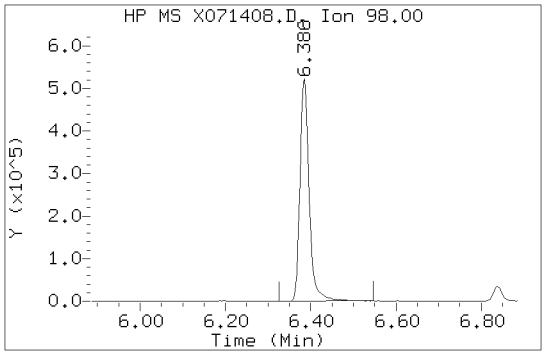

AFTER

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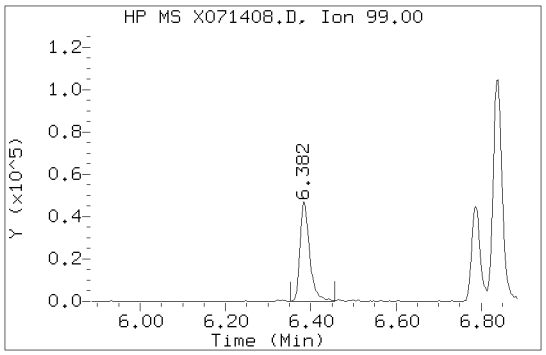

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Inj Date : 14-JUL-2023 14:24
InstruID : voa6.i
LabSampID : VSTD050

Toluene-d8 (2037-26-5)

Reason Code:

BEFORE

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HEIGHT
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20-Jul-2023
15:04
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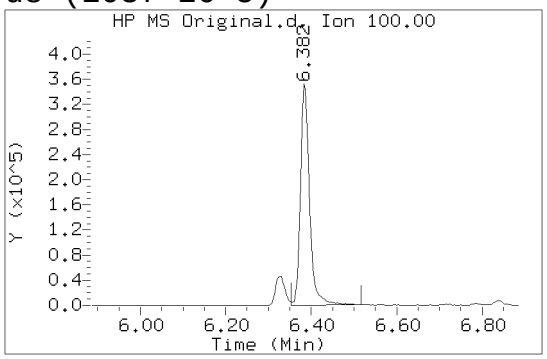

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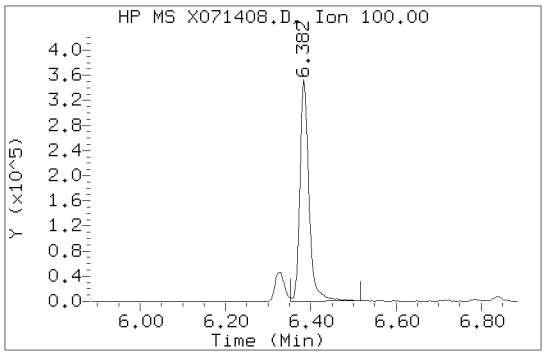

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Report Date: 20-Jul-2023 15:05

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230714.b\X071409.D
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Inj Date : 14-JUL-2023 14:44
Operator : PC Inst ID: voa6.i
Smp Info : VSTD100;VSTD100;1;8;
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230714.b\8260W.m
Meth Date : 20-Jul-2023 15:05 voa6.i Quant Type: ISTD
Cal Date : 14-JUL-2023 14:24 Cal File: X071408.D
Als bottle: 10 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1	Pentafluorobenzene	168	4.178	4.178	(1.000)	523083	50.0000	
2	Dichlorodifluoromethane	85	0.976	0.976	(0.234)	576963	100.000	106.55
3	Chloromethane	50	1.081	1.081	(0.259)	835087	100.000	105.69
4	Propionitrile	54	3.657	3.657	(0.875)	1047975	1000.00	1011.37
5	Vinyl Chloride	62	1.145	1.145	(0.274)	734431	100.000	108.50
6	Bromomethane	94	1.340	1.340	(0.321)	298512	100.000	106.56
7	Chloroethane	64	1.404	1.404	(0.336)	388839	100.000	100.62
8	Trichlorofluoromethane	101	1.561	1.561	(0.374)	784790	100.000	114.40
9	Acrolein	56	1.861	1.861	(0.446)	38657	200.000	194.08(H)
10	Acetone	43	1.973	1.973	(0.472)	413238	200.000	204.54
11	1,1-Dichloroethene	96	1.917	1.917	(0.459)	418161	100.000	109.11
12	Isobutyl Alcohol	43	4.676	4.676	(1.119)	2105793	2000.00	2123.76
13	Acetonitrile	39	2.198	2.198	(0.526)	728143	1000.00	992.69
14	Allyl Chloride	41	2.198	2.198	(0.526)	1634102	100.000	95.15
15	Iodomethane	142	2.030	2.030	(0.486)	1101288	200.000	206.62
16	Acrylonitrile	53	2.532	2.532	(0.606)	485413	200.000	190.43
17	Methylene Chloride	84	2.303	2.303	(0.551)	461890	100.000	103.61
18	Methyl tert-butyl ether	73	2.539	2.539	(0.608)	1386267	100.000	97.26
19	Carbon Disulfide	76	2.071	2.071	(0.496)	2567979	200.000	213.18
20	trans-1,2-Dichloroethene	96	2.528	2.528	(0.605)	450376	100.000	101.60

21 Vinyl Acetate	43	3.001	3.001 (0.718)	3697154	200.000	201.67
22 1,1-Dichloroethane	63	2.918	2.918 (0.699)	974667	100.000	100.19

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	23 Chloroprene	53	1.775	1.775	(0.425)	247316	100.000	105.15(M)
	24 2-Butanone	43	3.582	3.582	(0.857)	596777	200.000	214.23
	25 Methacrylonitrile	41	3.821	3.821	(0.915)	700145	100.000	103.69(a)
	26 2,2-Dichloropropane	77	3.507	3.507	(0.839)	797830	100.000	105.42
	27 cis-1,2-Dichloroethene	96	3.525	3.525	(0.844)	578093	100.000	102.37
	28 Chloroform	83	3.904	3.904	(0.935)	984765	100.000	98.94
	29 Bromochloromethane	128	3.795	3.795	(0.908)	308539	100.000	97.49
$	30 Dibromofluoromethane	113	4.099	4.099	(0.981)	502644	100.000	105.68
	31 1,1,1-Trichloroethane	97	4.084	4.084	(0.978)	846403	100.000	110.47
	32 1,1-Dichloropropene	75	4.279	4.279	(0.862)	731563	100.000	110.92
	33 1,2-Dichloroethane	62	4.556	4.556	(0.918)	901009	100.000	101.23
	34 Carbon Tetrachloride	117	4.260	4.260	(0.858)	726709	100.000	109.37
$	35 1,2-Dichloroethane-d4	65	4.470	4.470	(1.070)	615043	100.000	103.24
*	36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	808530	50.0000	
	37 Benzene	78	4.511	4.511	(0.909)	2032676	100.000	105.10
	38 Trichloroethene	130	5.201	5.201	(1.048)	584538	100.000	106.85
	39 Bromodichloromethane	83	5.726	5.726	(1.153)	741977	100.000	100.16
	40 Methyl Methacrylate	41	5.606	5.606	(1.342)	628263	100.000	99.51
	41 2-Chloroethylvinyl ether	63	6.044	6.044	(1.217)	497113	200.000	219.79
	42 1,2-Dichloropropane	63	5.433	5.433	(1.094)	653249	100.000	105.04
	43 2-Nitropropane	43	5.969	5.969	(1.429)	203991	100.000	98.16
	44 Dibromomethane	93	5.550	5.550	(1.118)	353228	100.000	100.34
	45 4-Methyl-2-Pentanone	43	6.326	6.326	(0.825)	1478418	200.000	198.78
	46 cis-1,3-Dichloropropene	75	6.153	6.153	(1.239)	899164	100.000	105.68
*	47 Chlorobenzene-d5	117	7.668	7.668	(1.000)	755792	50.0000	
$	48 Toluene-d8	98	6.386	6.386	(0.833)	1813180	100.000	93.17(M)
	49 Ethyl Methacrylate	69	6.712	6.712	(1.352)	499748	100.000	94.37
	50 Toluene	91	6.442	6.442	(0.840)	2182793	100.000	107.28
	51 trans-1,3-Dichloropropene	75	6.678	6.678	(1.345)	755710	100.000	105.36
	52 2-Hexanone	43	7.087	7.087	(0.924)	970744	200.000	198.69
	53 1,1,2-Trichloroethane	83	6.835	6.835	(0.891)	424795	100.000	98.42
	54 1,3-Dichloropropane	76	6.978	6.978	(0.910)	873450	100.000	99.06
	55 Dibromochloromethane	129	7.173	7.173	(0.935)	655964	100.000	105.28
	56 Tetrachloroethene	164	6.925	6.925	(0.903)	469739	100.000	111.75
	57 1,2-Dibromoethane	107	7.259	7.259	(0.947)	477019	100.000	96.72
	58 1-Chlorohexane	55	7.694	7.694	(1.550)	692334	100.000	106.58
	59 Chlorobenzene	112	7.690	7.690	(1.003)	1451842	100.000	102.08
	60 1,1,1,2-Tetrachloroethane	131	7.773	7.773	(1.014)	582430	100.000	104.61
	61 Ethylbenzene	106	7.795	7.795	(1.017)	757084	100.000	106.16
	62 m,p-Xylenes	106	7.900	7.900	(1.030)	1920317	200.000	214.63
	63 o-Xylene	106	8.237	8.237	(1.074)	894211	100.000	105.54
	64 Styrene	104	8.256	8.256	(1.077)	1543196	100.000	104.42
	66 Bromoform	173	8.410	8.410	(1.097)	423146	100.000	105.85
	67 Isopropylbenzene	105	8.560	8.560	(1.116)	2408268	100.000	110.58
	68 1,1,2,2-Tetrachloroethane	83	8.837	8.837	(0.915)	686871	100.000	97.37
$	69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	767493	100.000	102.43
*	70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	419955	50.0000	
	71 1,2,3-Trichloropropane	75	8.860	8.860	(0.917)	550885	100.000	98.41(M)
	72 trans-1,4-Dichloro-2-butene	53	8.886	8.886	(1.159)	253486	100.000	110.27
	73 n-Propylbenzene	91	8.908	8.908	(0.922)	2861434	100.000	112.75
	74 Bromobenzene	156	8.803	8.803	(0.911)	667827	100.000	101.67
	75 1,3,5-Trimethylbenzene	105	9.066	9.066	(0.938)	2103222	100.000	110.62

76	2-Chlorotoluene	91	8.972	8.972 (0.929)	1748246	100.000	102.12
77	4-Chlorotoluene	91	9.066	9.066 (0.938)	2018059	100.000	107.27

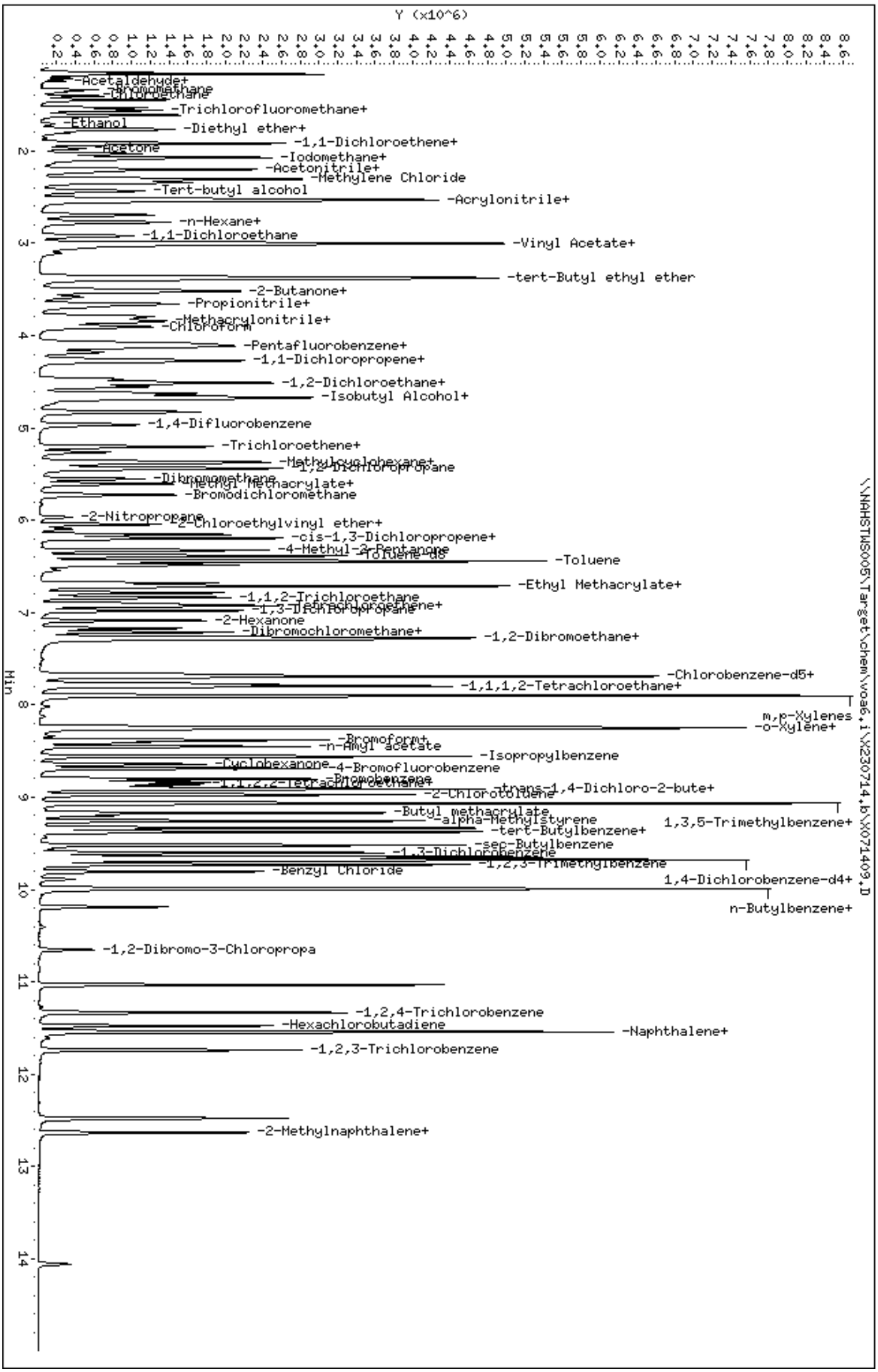
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
78	tert-Butylbenzene	119	9.336	9.336	(0.966)	1780796	100.000	109.22
79	1,2,4-Trimethylbenzene	105	9.377	9.377	(0.971)	2073163	100.000	108.74
81	sec-Butylbenzene	105	9.519	9.519	(0.985)	2510459	100.000	115.52
82	p-Isopropyltoluene	119	9.647	9.647	(0.998)	2265107	100.000	114.10
83	1,3-Dichlorobenzene	146	9.602	9.602	(0.994)	1217703	100.000	106.42
84	1,4-Dichlorobenzene	146	9.681	9.681	(1.002)	1289815	100.000	102.81
86	Benzyl Chloride	91	9.804	9.804	(1.279)	1321247	100.000	100.26
87	n-Butylbenzene	91	9.992	9.992	(1.034)	1995906	100.000	120.04
88	1,2-Dichlorobenzene	146	9.988	9.988	(1.034)	1197079	100.000	106.41
89	1,2-Dibromo-3-Chloropropane	155	10.651	10.651	(1.102)	119154	100.000	101.61
90	1,2,4-Trichlorobenzene	180	11.334	11.334	(1.173)	818711	100.000	105.96
91	Hexachlorobutadiene	225	11.476	11.476	(1.188)	382401	100.000	104.71
92	Naphthalene	128	11.540	11.540	(1.194)	1978675	100.000	103.47
93	1,2,3-Trichlorobenzene	180	11.739	11.739	(1.215)	745369	100.000	103.15
146	Methyl acetate	43	2.228	2.228	(0.533)	452160	100.000	97.12
138	Freon TF	101	1.917	1.917	(0.459)	422615	100.000	100.16
141	Cyclohexane	56	4.118	4.118	(0.986)	1080112	100.000	119.12
142	Tetrahydrofuran	42	3.848	3.848	(0.921)	261433	200.000	194.26
147	Methylcyclohexane	55	5.381	5.381	(1.084)	1785418	100.000	104.61(A)
135	1,4-Dioxane	88	5.598	5.598	(1.340)	124490	2000.00	2002.78
132	n-Butanol	56	5.261	5.261	(1.259)	380486	2000.00	2185.06
131	Methyl Acrylate	55	3.690	3.690	(0.883)	811825	100.000	114.17
133	Ethyl Acrylate	55	5.381	5.381	(1.288)	1785418	100.000	102.98
136	n-Hexane	57	2.772	2.772	(0.664)	700280	100.000	100.13
139	Diethyl ether	59	1.760	1.760	(0.421)	469212	100.000	96.19
148	Tert-butyl alcohol	59	2.434	2.434	(0.583)	1247600	2000.00	1889.72
149	Isopropyl alcohol	45	2.097	2.097	(0.502)	761231	2000.00	1858.21
156	Diisopropyl ether	45	3.004	3.004	(0.719)	2133149	100.000	98.94
166	1,2,3-Trimethylbenzene	105	9.729	9.729	(1.007)	2052311	100.000	105.71
167	Ethanol	45	1.703	1.703	(0.408)	150451	2000.00	2076.45
172	tert-Butyl formate	59	4.627	4.627	(1.108)	1076721	200.000	192.69
173	3,3-Dimethyl-1-butanol	57	7.289	7.289	(0.951)	1478367	2000.00	1818.81
174	tert-Amyl methyl ether	73	4.669	4.669	(1.118)	1654411	100.000	96.14
175	tert-Butyl ethyl ether	59	3.383	3.383	(0.810)	2142435	100.000	96.74
176	tert-Amyl alcohol	59	4.627	4.627	(1.108)	1076721	2000.00	1884.24
151	4-Methyl-2-pentanol	45	6.712	6.712	(1.352)	3281154	2000.00	1893.64
180	1-Methylnaphthalene	142	12.635	12.635	(1.308)	878613	100.000	(a)
140	1,3-Butadiene	54	1.167	1.167	(0.280)	742885	100.000	110.52
152	Amyl alcohol	42	6.903	6.903	(0.900)	457453	2000.00	2104.71
158	Dichlorofluoromethane	67	1.531	1.531	(0.367)	823584	100.000	97.72
159	Propylene oxide	43	1.805	1.805	(0.432)	116784	200.000	181.98
161	3-Methyl-1-butanol	55	6.899	6.899	(0.900)	421402	2000.00	2264.68
162	Butyl acrylate	55	8.249	8.249	(1.076)	1549632	100.000	107.77
163	Butyl methacrylate	41	9.167	9.167	(0.949)	1085490	100.000	107.91
164	Dicyclopentadiene	66	9.681	9.681	(1.002)	2485958	100.000	102.76
182	Epichlorohydrin	57	6.093	6.093	(1.227)	253170	400.000	419.20
M 94	1,2-Dichloroethylene (total)	96				1028469	200.000	(a)
145	alpha-Methylstyrene	118	9.257	9.257	(0.958)	977451	100.000	106.68
130	Ethyl Acetate	43	3.660	3.660	(0.876)	772631	100.000	99.44
134	Cyclohexanone	55	8.642	8.642	(0.894)	668441	2000.00	1787.90
185	Isoprene	39	1.771	1.771	(0.424)	186523	100.000	108.17
188	Isopropyl acetate	43	4.676	4.676	(0.942)	2105793	100.000	98.77

187 n-Amyl acetate	43	8.451	8.451 (1.102)	1369941	100.000	98.90
189 n-Butyl acetate	43	7.210	7.210 (0.940)	1203586	100.000	103.89(H)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
150 Allyl alcohol	57	2.772	2.772	(0.664)	700280	2000.00	2002.79
194 Acetaldehyde	44	1.212	1.212	(0.290)	189053	400.000	425.78(M)
195 Methyl Amyl Ketone	43	8.380	8.380	(1.093)	1583303	100.000	100.22
200 Dimethyl Disulfide	94	6.194	6.194	(0.808)	1112805	100.000	109.15
202 Isobutylene	41	1.242	1.242	(0.297)	90557	100.000	104.71(M)
205 2-Ethylhexyl Acrylate	55	11.544	11.544	(1.195)	1235080	100.000	115.14

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
exceeded maximum amount.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.



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Sample Info: VSTD100;VSTD100;1;8;
Purge Volume: 5.0
Column phase: DB624

Instrument: voa6.i
Operator: PC
Column diameter: 0.18

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Inj Date : 14-JUL-2023 14:44
InstruID : voa6.i
LabSampID : VSTD100

1,2,3-Trichloropropane (96-18-4)

Reason Code:

BEFORE

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20-Jul-2023
15:04
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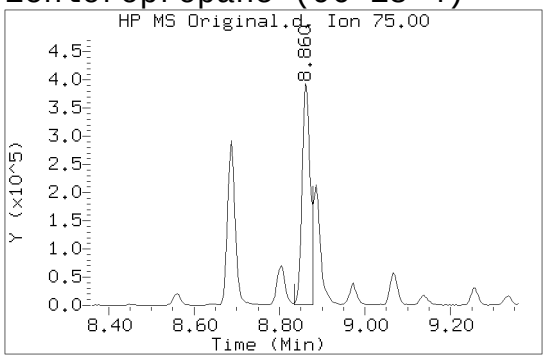
pham



AFTER

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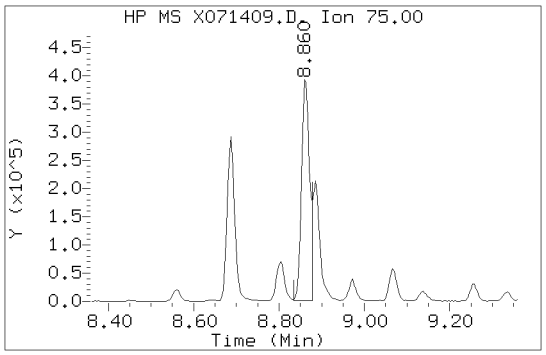

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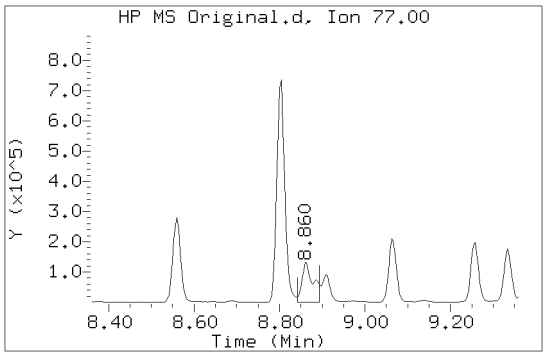

AFTER

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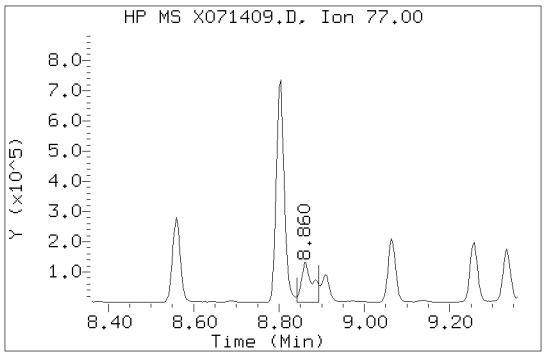

Chloroprene (126-99-8)

Reason Code:

BEFORE

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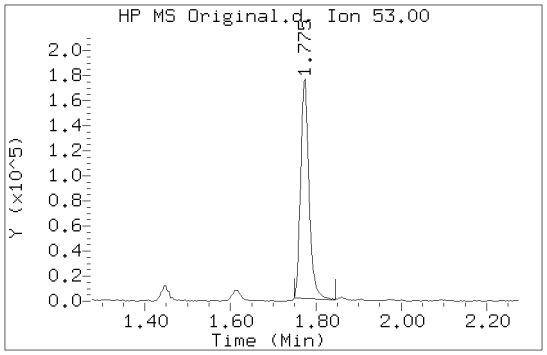

AFTER

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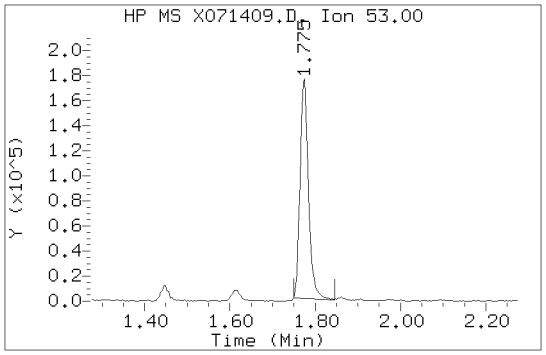

BEFORE

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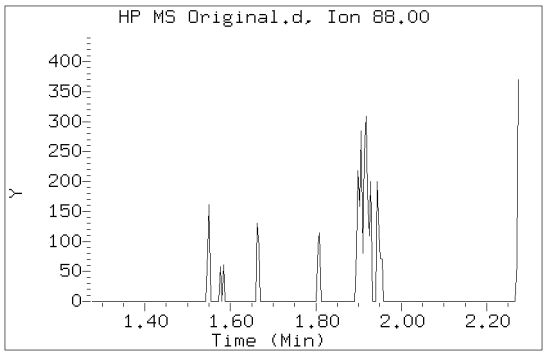

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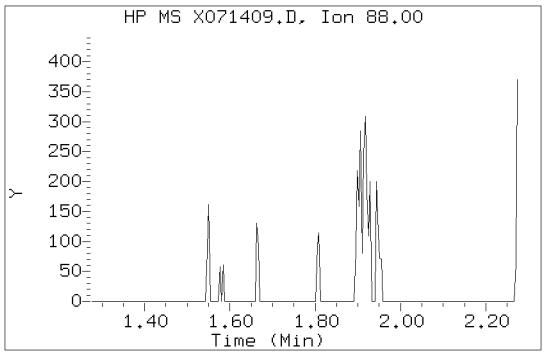

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LabSampID : VSTD100

Acetaldehyde (75-07-0)

Reason Code:

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20-Jul-2023
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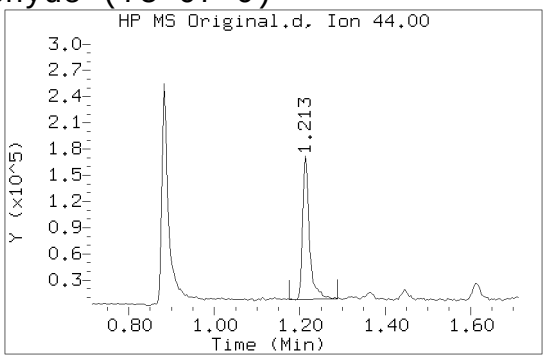

AFTER
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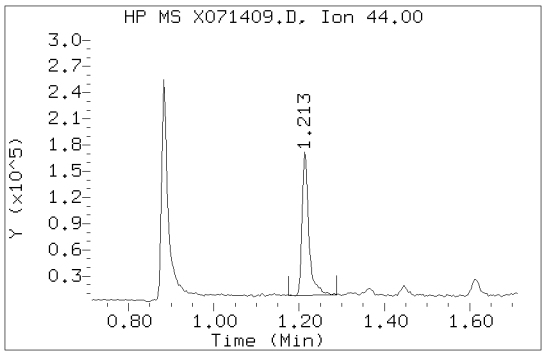

BEFORE
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20-Jul-2023
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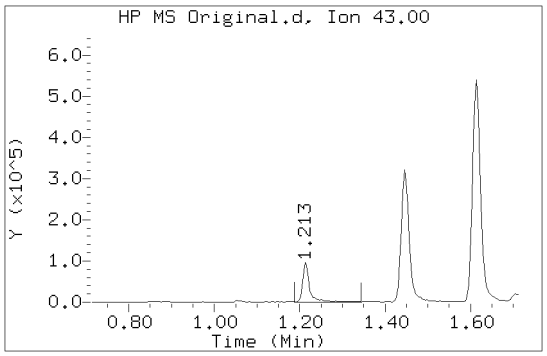
pham



AFTER
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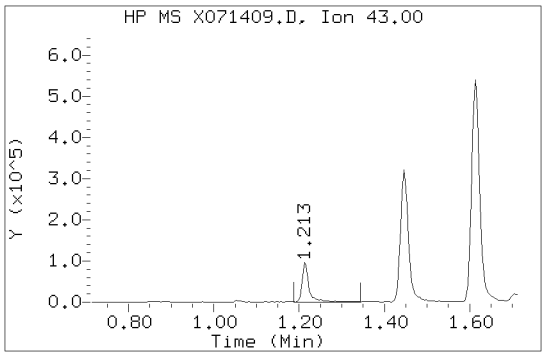

BEFORE
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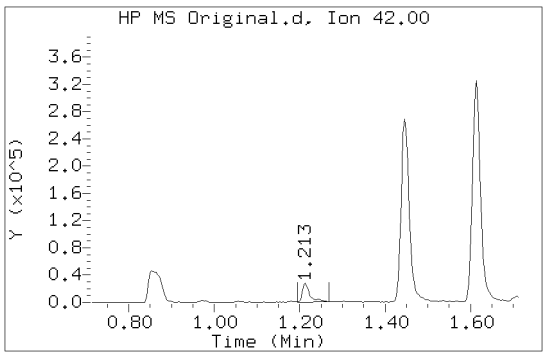

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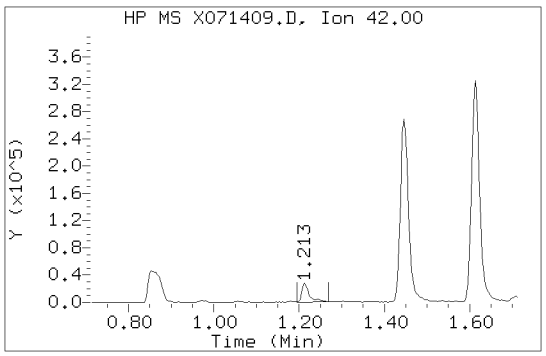

Isobutylene (115-11-7)

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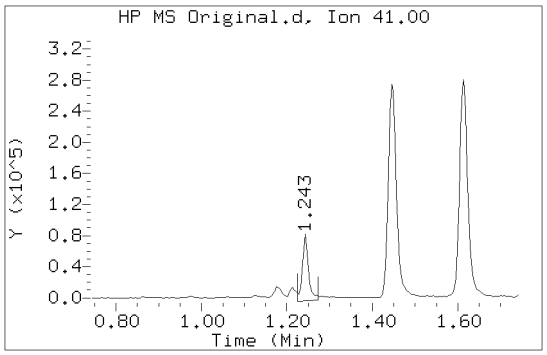

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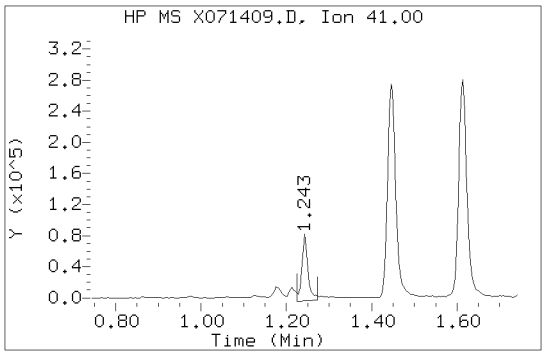

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LabSampID : VSTD100

Isobutylene (115-11-7)

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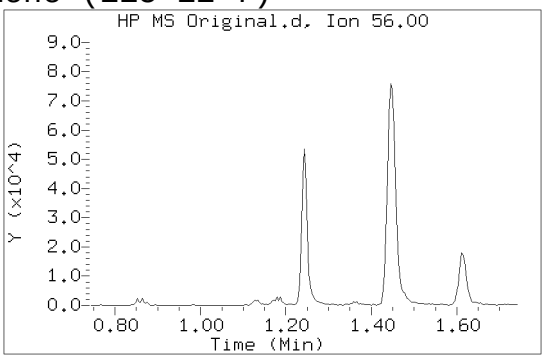

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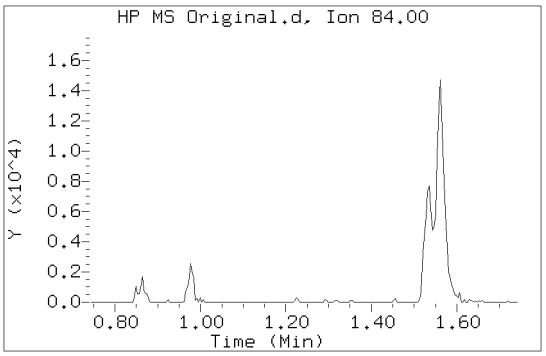

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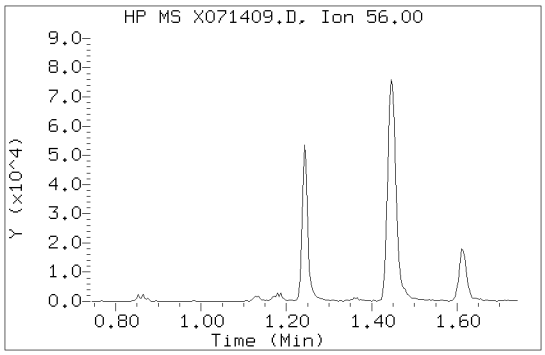

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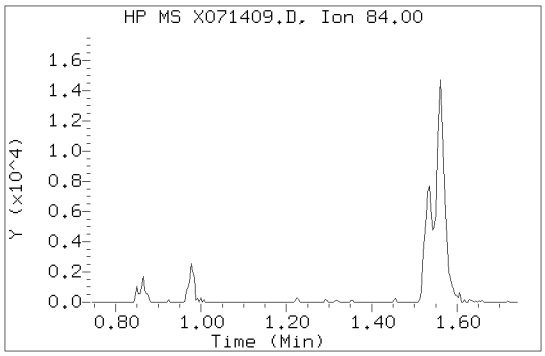

Toluene-d8 (2037-26-5)

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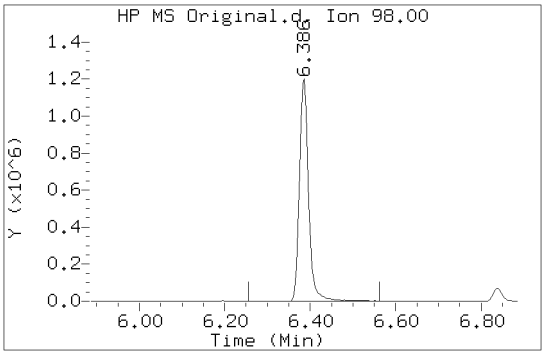

BEFORE

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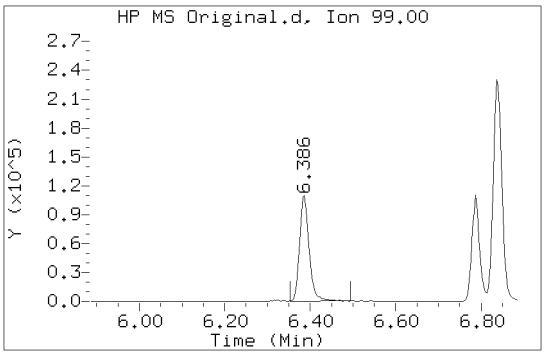

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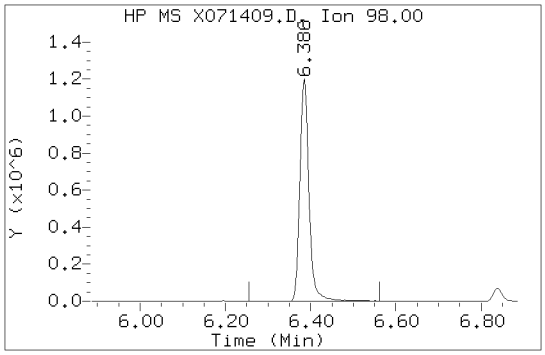

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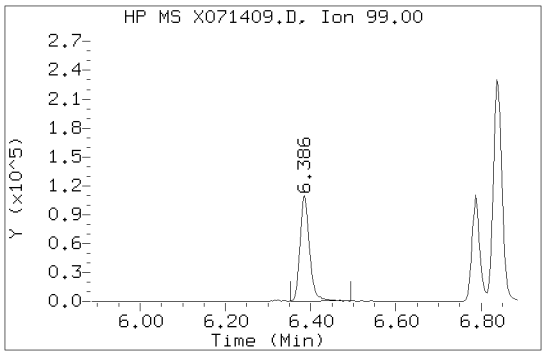

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LabSampID : VSTD100

Toluene-d8 (2037-26-5)

Reason Code:

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20-Jul-2023
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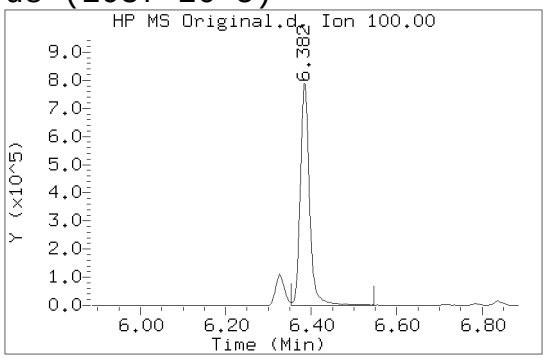

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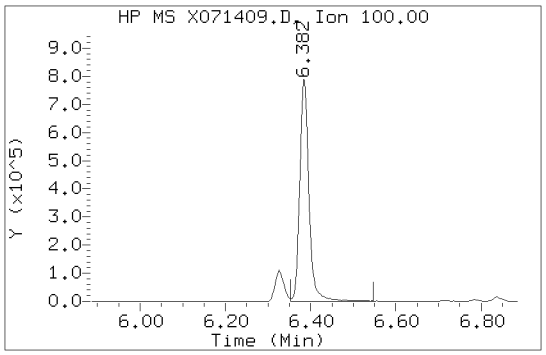

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Report Date: 20-Jul-2023 15:05

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230714.b\X071410.D
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Inj Date : 14-JUL-2023 15:05
Operator : PC Inst ID: voa6.i
Smp Info : VSTD150;VSTD150;1;9;
Misc Info : V6;WATER;0;1;
Comment   :
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Meth Date : 20-Jul-2023 15:05 voa6.i Quant Type: ISTD
Cal Date : 14-JUL-2023 14:44 Cal File: X071409.D
Als bottle: 11 Calibration Sample, Level: 9
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1	Pentafluorobenzene	168	4.178	4.178	(1.000)	527810	50.0000	
2	Dichlorodifluoromethane	85	0.976	0.976	(0.234)	822037	150.000	150.00
3	Chloromethane	50	1.081	1.081	(0.259)	1286174	150.000	161.33
4	Propionitrile	54	3.656	3.656	(0.875)	1601430	1500.00	1531.66
5	Vinyl Chloride	62	1.145	1.145	(0.274)	1063794	150.000	155.75
6	Bromomethane	94	1.336	1.336	(0.320)	469612	150.000	166.14
7	Chloroethane	64	1.404	1.404	(0.336)	574620	150.000	147.37
8	Trichlorofluoromethane	101	1.561	1.561	(0.374)	1133831	150.000	163.80
9	Acrolein	56	1.861	1.861	(0.446)	60619	300.000	301.00(M)
10	Acetone	43	1.973	1.973	(0.472)	616513	300.000	304.76
11	1,1-Dichloroethene	96	1.913	1.913	(0.458)	592973	150.000	153.35
12	Isobutyl Alcohol	43	4.676	4.676	(1.119)	3143464	3000.00	3141.89
13	Acetonitrile	39	2.198	2.198	(0.526)	1116521	1500.00	1508.54
14	Allyl Chloride	41	2.198	2.198	(0.526)	2479475	150.000	143.08
15	Iodomethane	142	2.030	2.030	(0.486)	1666204	300.000	298.54
16	Acrylonitrile	53	2.532	2.532	(0.606)	742882	300.000	288.83
17	Methylene Chloride	84	2.303	2.303	(0.551)	679924	150.000	151.80
18	Methyl tert-butyl ether	73	2.539	2.539	(0.608)	2090757	150.000	145.38
19	Carbon Disulfide	76	2.071	2.071	(0.496)	3776842	300.000	310.72
20	trans-1,2-Dichloroethene	96	2.528	2.528	(0.605)	652435	150.000	145.86

21 Vinyl Acetate	43	3.000	3.000 (0.718)	5593666	300.000	302.39
22 1,1-Dichloroethane	63	2.922	2.922 (0.699)	1431683	150.000	145.86

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
23	Chloroprene	53	1.771	1.771	(0.424)	369436	150.000	155.66
24	2-Butanone	43	3.581	3.581	(0.857)	878521	300.000	312.55
25	Methacrylonitrile	41	3.821	3.821	(0.915)	1065216	150.000	156.35(aM)
26	2,2-Dichloropropane	77	3.507	3.507	(0.839)	1150093	150.000	150.52
27	cis-1,2-Dichloroethene	96	3.522	3.522	(0.843)	837160	150.000	146.92
28	Chloroform	83	3.904	3.904	(0.935)	1446796	150.000	144.05
29	Bromochloromethane	128	3.791	3.791	(0.908)	457063	150.000	143.13
$ 30	Dibromofluoromethane	113	4.099	4.099	(0.981)	719790	150.000	150.30
31	1,1,1-Trichloroethane	97	4.080	4.080	(0.977)	1235806	150.000	159.84
32	1,1-Dichloropropene	75	4.279	4.279	(0.862)	1058110	150.000	156.11
33	1,2-Dichloroethane	62	4.552	4.552	(0.917)	1349536	150.000	147.53
34	Carbon Tetrachloride	117	4.264	4.264	(0.859)	1056698	150.000	154.75(H)
$ 35	1,2-Dichloroethane-d4	65	4.470	4.470	(1.070)	911155	150.000	151.87
* 36	1,4-Difluorobenzene	114	4.965	4.965	(1.000)	830945	50.0000	
37	Benzene	78	4.511	4.511	(0.909)	2966123	150.000	149.23
38	Trichloroethene	130	5.205	5.205	(1.048)	855874	150.000	152.23
39	Bromodichloromethane	83	5.726	5.726	(1.153)	1126828	150.000	148.01
40	Methyl Methacrylate	41	5.606	5.606	(1.342)	952441	150.000	149.51
41	2-Chloroethylvinyl ether	63	6.044	6.044	(1.217)	736745	300.000	316.95
42	1,2-Dichloropropane	63	5.437	5.437	(1.095)	965373	150.000	151.04
43	2-Nitropropane	43	5.969	5.969	(1.429)	327090	150.000	155.99
44	Dibromomethane	93	5.550	5.550	(1.118)	514778	150.000	142.29
45	4-Methyl-2-Pentanone	43	6.325	6.325	(0.825)	2236545	300.000	293.85
46	cis-1,3-Dichloropropene	75	6.153	6.153	(1.239)	1331094	150.000	152.22
* 47	Chlorobenzene-d5	117	7.668	7.668	(1.000)	773431	50.0000	
$ 48	Toluene-d8	98	6.385	6.385	(0.833)	2609088	150.000	131.02(M)
49	Ethyl Methacrylate	69	6.715	6.715	(1.353)	829910	150.000	152.50
50	Toluene	91	6.442	6.442	(0.840)	3226930	150.000	154.99
51	trans-1,3-Dichloropropene	75	6.678	6.678	(1.345)	1129301	150.000	153.20
52	2-Hexanone	43	7.086	7.086	(0.924)	1502232	300.000	300.46
53	1,1,2-Trichloroethane	83	6.839	6.839	(0.892)	629049	150.000	142.43
54	1,3-Dichloropropane	76	6.978	6.978	(0.910)	1287243	150.000	142.66
55	Dibromochloromethane	129	7.173	7.173	(0.935)	978359	150.000	153.44
56	Tetrachloroethene	164	6.925	6.925	(0.903)	682053	150.000	158.57
57	1,2-Dibromoethane	107	7.255	7.255	(0.946)	707106	150.000	140.10
58	1-Chlorohexane	55	7.694	7.694	(1.550)	1016479	150.000	152.26
59	Chlorobenzene	112	7.690	7.690	(1.003)	2169037	150.000	149.03
60	1,1,1,2-Tetrachloroethane	131	7.772	7.772	(1.014)	874873	150.000	153.55
61	Ethylbenzene	106	7.795	7.795	(1.017)	1121097	150.000	153.61
62	m,p-Xylenes	106	7.900	7.900	(1.030)	2832546	300.000	309.38
63	o-Xylene	106	8.237	8.237	(1.074)	1332457	150.000	153.68
64	Styrene	104	8.256	8.256	(1.077)	2314702	150.000	153.05
66	Bromoform	173	8.406	8.406	(1.096)	644372	150.000	157.51
67	Isopropylbenzene	105	8.560	8.560	(1.116)	3517587	150.000	157.83
68	1,1,2,2-Tetrachloroethane	83	8.837	8.837	(0.915)	1039682	150.000	143.99
$ 69	4-Bromofluorobenzene	95	8.687	8.687	(1.133)	1135204	150.000	148.24
* 70	1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	429875	50.0000	
71	1,2,3-Trichloropropane	75	8.860	8.860	(0.917)	832853	150.000	145.35(M)
72	trans-1,4-Dichloro-2-butene	53	8.886	8.886	(1.159)	389558	150.000	165.60
73	n-Propylbenzene	91	8.908	8.908	(0.922)	4183180	150.000	161.03
74	Bromobenzene	156	8.803	8.803	(0.911)	988462	150.000	147.02
75	1,3,5-Trimethylbenzene	105	9.066	9.066	(0.938)	3151476	150.000	161.94

76	2-Chlorotoluene	91	8.972	8.972 (0.929)	2593717	150.000	148.01
77	4-Chlorotoluene	91	9.066	9.066 (0.938)	3011546	150.000	156.39

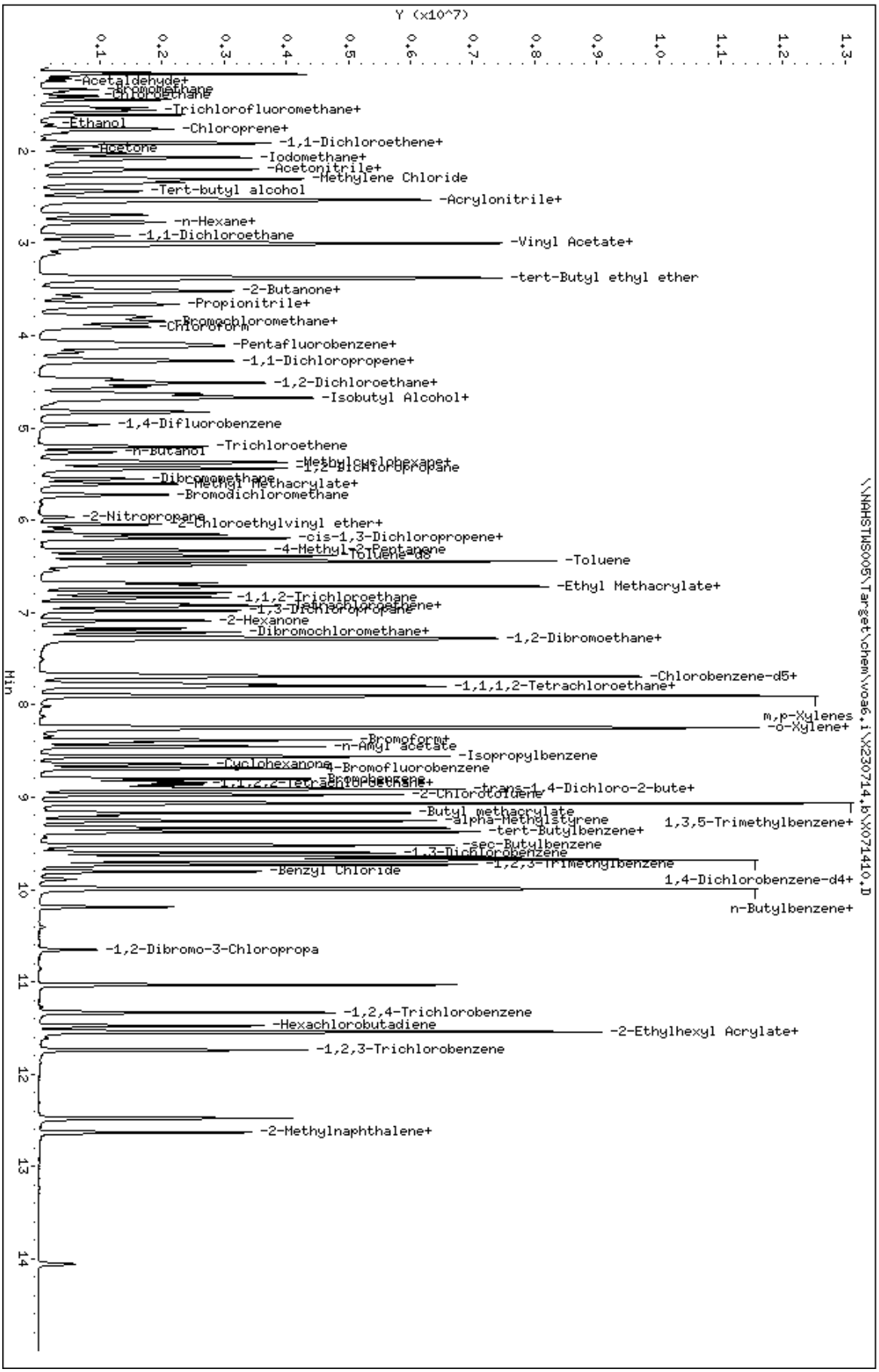
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
78	tert-Butylbenzene	119	9.336	9.336	(0.966)	2639400	150.000	158.15
79	1,2,4-Trimethylbenzene	105	9.377	9.377	(0.971)	3108890	150.000	159.30
81	sec-Butylbenzene	105	9.519	9.519	(0.985)	3705100	150.000	166.56
82	p-Isopropyltoluene	119	9.647	9.647	(0.998)	3332963	150.000	164.02
83	1,3-Dichlorobenzene	146	9.602	9.602	(0.994)	1820441	150.000	155.43
84	1,4-Dichlorobenzene	146	9.681	9.681	(1.002)	1873658	150.000	145.90
86	Benzyl Chloride	91	9.804	9.804	(1.279)	2041719	150.000	150.20
87	n-Butylbenzene	91	9.992	9.992	(1.034)	2930740	150.000	172.20
88	1,2-Dichlorobenzene	146	9.988	9.988	(1.034)	1771825	150.000	153.87
89	1,2-Dibromo-3-Chloropropane	155	10.651	10.651	(1.102)	181917	150.000	151.02
90	1,2,4-Trichlorobenzene	180	11.334	11.334	(1.173)	1234851	150.000	156.14
91	Hexachlorobutadiene	225	11.476	11.476	(1.188)	564457	150.000	149.95
92	Naphthalene	128	11.536	11.536	(1.194)	2932468	150.000	149.81(H)
93	1,2,3-Trichlorobenzene	180	11.739	11.739	(1.215)	1112132	150.000	150.36
146	Methyl acetate	43	2.228	2.228	(0.533)	681317	150.000	145.04
138	Freon TF	101	1.917	1.917	(0.459)	606555	150.000	111.66
141	Cyclohexane	56	4.118	4.118	(0.986)	1542802	150.000	168.63
142	Tetrahydrofuran	42	3.851	3.851	(0.922)	399301	300.000	294.06
147	Methylcyclohexane	55	5.377	5.377	(1.083)	2810624	150.000	160.25(A)
135	1,4-Dioxane	88	5.602	5.602	(1.341)	190045	3000.00	3030.04
132	n-Butanol	56	5.261	5.261	(1.259)	615802	3000.00	3504.76
131	Methyl Acrylate	55	3.690	3.690	(0.883)	1248423	150.000	174.00
133	Ethyl Acrylate	55	5.377	5.377	(1.287)	2810624	150.000	160.67
136	n-Hexane	57	2.772	2.772	(0.664)	1037045	150.000	105.54
139	Diethyl ether	59	1.756	1.756	(0.420)	707615	150.000	143.77
148	Tert-butyl alcohol	59	2.438	2.438	(0.584)	1892876	3000.00	2841.43
149	Isopropyl alcohol	45	2.097	2.097	(0.502)	1176234	3000.00	2845.54
156	Diisopropyl ether	45	3.004	3.004	(0.719)	3254817	150.000	149.61
166	1,2,3-Trimethylbenzene	105	9.729	9.729	(1.007)	3200479	150.000	161.06
167	Ethanol	45	1.711	1.711	(0.410)	220615	3000.00	3026.01
172	tert-Butyl formate	59	4.631	4.631	(1.109)	1704396	300.000	302.29(A)
173	3,3-Dimethyl-1-butanol	57	7.289	7.289	(0.951)	2433401	3000.00	2925.50
174	tert-Amyl methyl ether	73	4.669	4.669	(1.118)	2611847	150.000	150.42(M)
175	tert-Butyl ethyl ether	59	3.383	3.383	(0.810)	3273017	150.000	146.47
176	tert-Amyl alcohol	59	4.631	4.631	(1.109)	1704396	3000.00	2955.95
151	4-Methyl-2-pentanol	45	6.715	6.715	(1.353)	5221709	3000.00	2932.29
180	1-Methylnaphthalene	142	12.631	12.631	(1.307)	1346422	150.000	(a)
140	1,3-Butadiene	54	1.167	1.167	(0.280)	1064415	150.000	156.94
152	Amyl alcohol	42	6.903	6.903	(0.900)	729736	3000.00	3280.90
158	Dichlorofluoromethane	67	1.531	1.531	(0.367)	1246213	150.000	146.54
159	Propylene oxide	43	1.805	1.805	(0.432)	172752	300.000	266.78
161	3-Methyl-1-butanol	55	6.903	6.903	(0.900)	658666	3000.00	3459.04
162	Butyl acrylate	55	8.249	8.249	(1.076)	2429512	150.000	165.11
163	Butyl methacrylate	41	9.167	9.167	(0.949)	1571014	150.000	152.57
164	Dicyclopentadiene	66	9.684	9.684	(1.002)	3894938	150.000	157.29(H)
182	Epichlorohydrin	57	6.093	6.093	(1.227)	380786	600.000	613.50
M 94	1,2-Dichloroethylene (total)	96				1489595	300.000	(a)
145	alpha-Methylstyrene	118	9.257	9.257	(0.958)	1478505	150.000	157.64
130	Ethyl Acetate	43	3.660	3.660	(0.876)	1137763	150.000	145.13
134	Cyclohexanone	55	8.642	8.642	(0.894)	1027116	3000.00	2683.87
185	Isoprene	39	1.771	1.771	(0.424)	269460	150.000	154.87
188	Isopropyl acetate	43	4.676	4.676	(0.942)	3143464	150.000	143.47

187 n-Amyl acetate	43	8.451	8.451 (1.102)	2118647	150.000	149.46
189 n-Butyl acetate	43	7.210	7.210 (0.940)	1862306	150.000	157.09(H)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
150 Allyl alcohol	57	2.772	2.772	(0.664)	1037045	3000.00	2106.54
194 Acetaldehyde	44	1.212	1.212	(0.290)	265471	600.000	601.40(M)
195 Methyl Amyl Ketone	43	8.380	8.380	(1.093)	2526261	150.000	156.27
200 Dimethyl Disulfide	94	6.194	6.194	(0.808)	1709034	150.000	163.81
202 Isobutylene	41	1.242	1.242	(0.297)	129814	150.000	148.75(M)
205 2-Ethylhexyl Acrylate	55	11.544	11.544	(1.195)	1882332	150.000	171.43

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
exceeded maximum amount.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230714.b\X071410.D
Date : 14-JUL-2023 15:05
Client ID: VSTD150
Sample Info: VSTD150;VSTD150;1;9;
Purge Volume: 5.0
Column phase: DB624

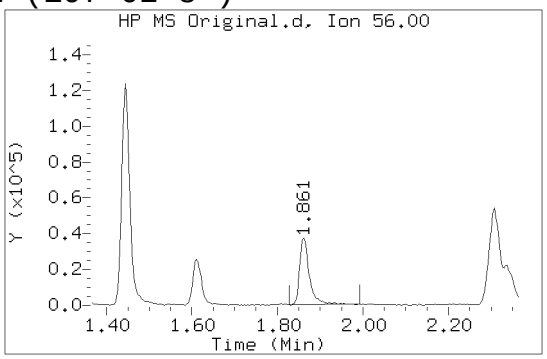
Instrument: voa6.i
Operator: PC
Column diameter: 0.18

Data File : \\NAHSTWS005\Target\chem\voa6.i\X230714.b\X071410.D
Inj Date : 14-JUL-2023 15:05
InstruID : voa6.i
LabSampID : VSTD150

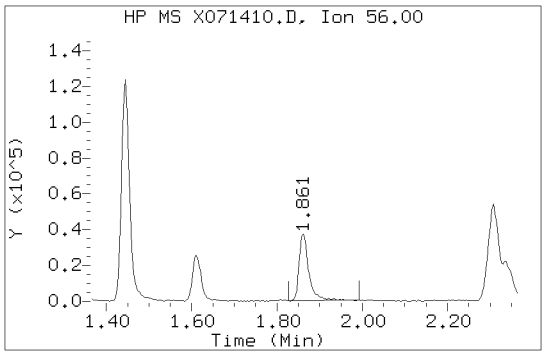
Acrolein (107-02-8)

Reason Code:

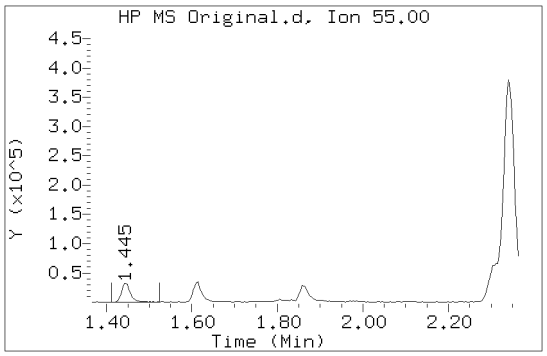
BEFORE
MASS
56
AREA
60619
HEIGHT
37327
20-Jul-2023
15:04
linh
pham



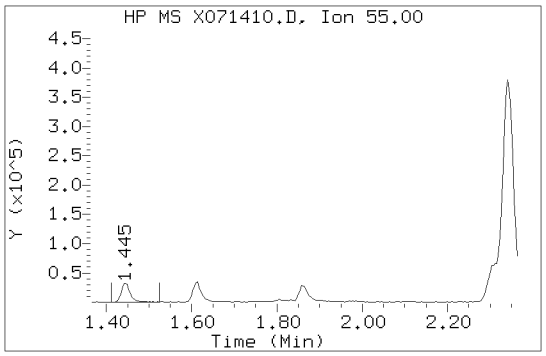
AFTER
MASS
56
AREA
60619
HEIGHT
37327
20-Jul-2023
15:04
linh
pham



BEFORE
MASS
55
AREA
45945
HEIGHT
31957
20-Jul-2023
15:04
linh
pham



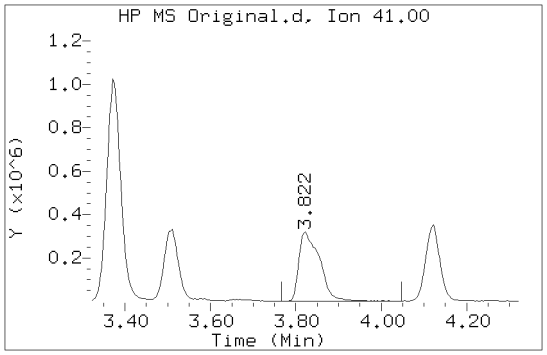
AFTER
MASS
55
AREA
45945
HEIGHT
31957
20-Jul-2023
15:04
linh
pham



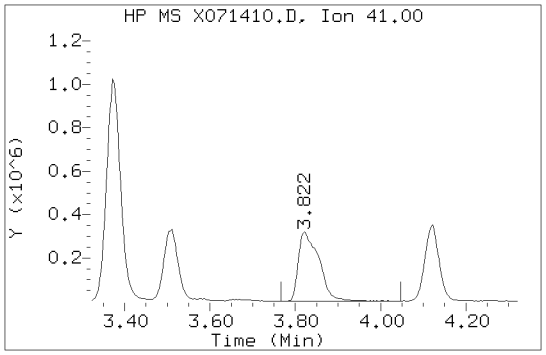
Methacrylonitrile (126-98-7)

Reason Code:

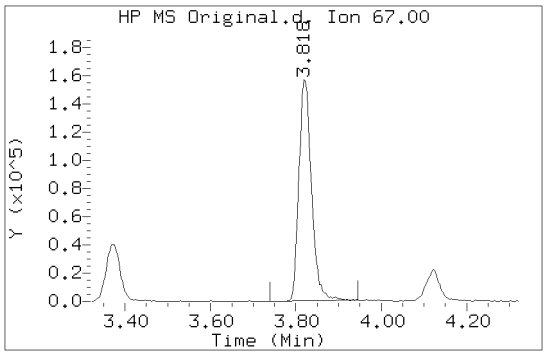
BEFORE
MASS
41
AREA
1065216
HEIGHT
318629
20-Jul-2023
15:04
linh
pham



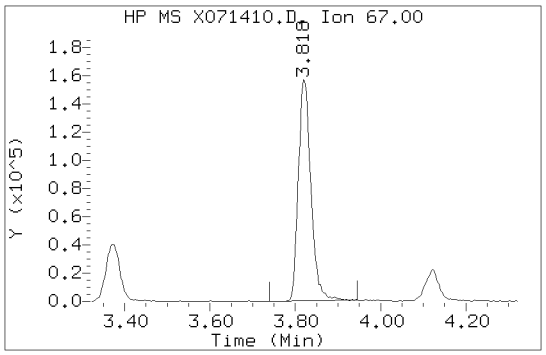
AFTER
MASS
41
AREA
1065216
HEIGHT
318629
20-Jul-2023
15:04
linh
pham



BEFORE
MASS
67
AREA
327199
HEIGHT
157063
20-Jul-2023
15:04
linh
pham



AFTER
MASS
67
AREA
327199
HEIGHT
157063
20-Jul-2023
15:04
linh
pham



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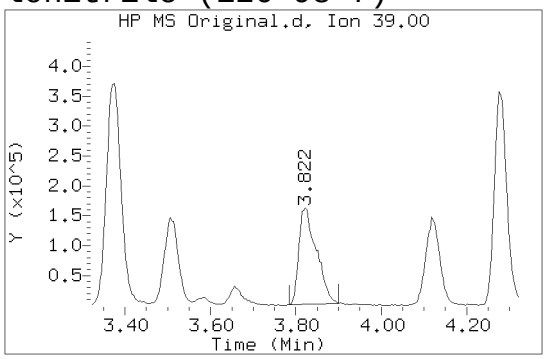
Inj Date : 14-JUL-2023 15:05
InstruID : voa6.i
LabSampID : VSTD150

Methacrylonitrile (126-98-7)

Reason Code:

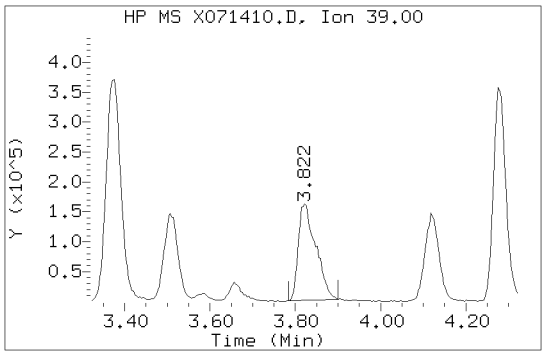
BEFORE

MASS
39
AREA
462715
HEIGHT
161606
20-Jul-2023
15:04
linh
pham



AFTER

MASS
39
AREA
462715
HEIGHT
161606
20-Jul-2023
15:04
linh
pham

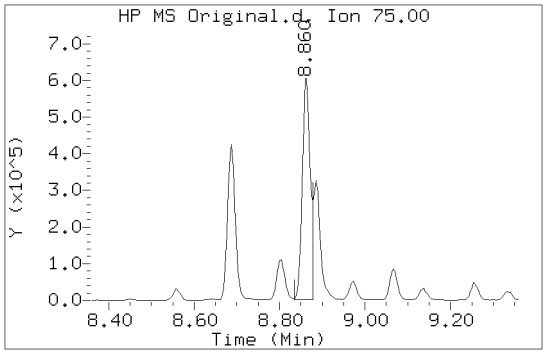


1,2,3-Trichloropropane (96-18-4)

Reason Code:

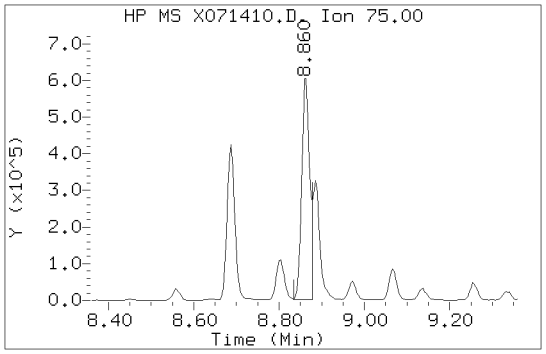
BEFORE

MASS
75
AREA
832853
HEIGHT
603944
20-Jul-2023
15:04
linh
pham



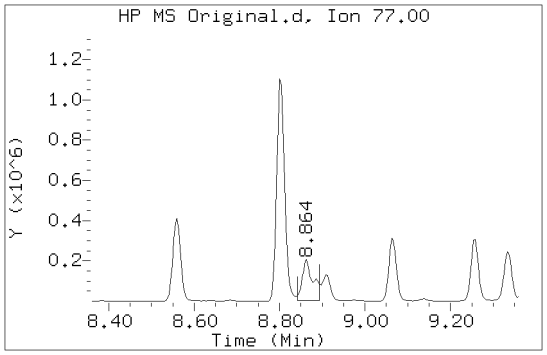
AFTER

MASS
75
AREA
832853
HEIGHT
603944
20-Jul-2023
15:04
linh
pham



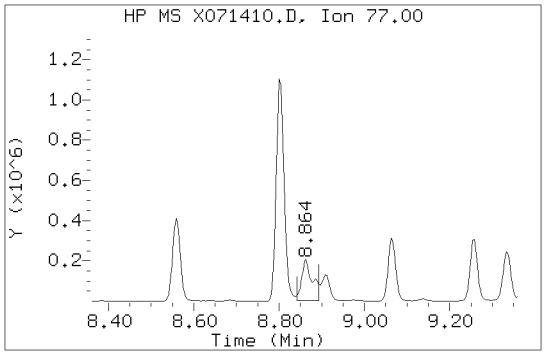
BEFORE

MASS
77
AREA
366391
HEIGHT
202553
20-Jul-2023
15:04
linh
pham



AFTER

MASS
77
AREA
366391
HEIGHT
202553
20-Jul-2023
15:04
linh
pham

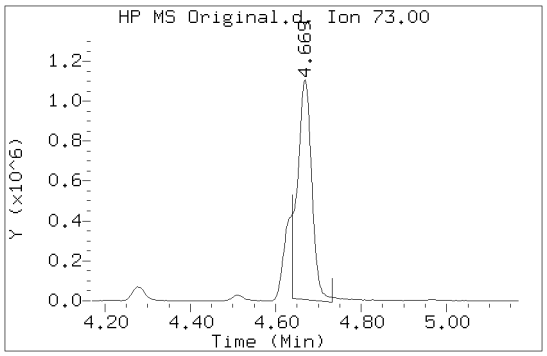


tert-Amyl methyl ether (974-05-08)

Reason Code:

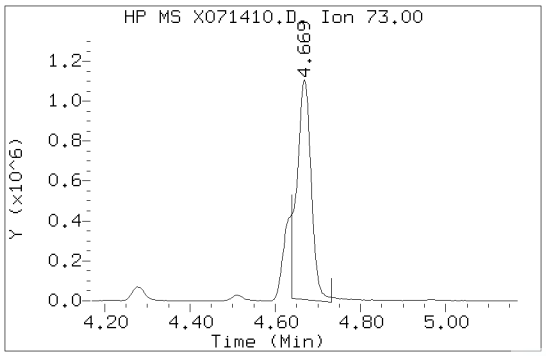
BEFORE

MASS
73
AREA
2611847
HEIGHT
1100641
20-Jul-2023
15:04
linh
pham



AFTER

MASS
73
AREA
2611847
HEIGHT
1100641
20-Jul-2023
15:04
linh
pham

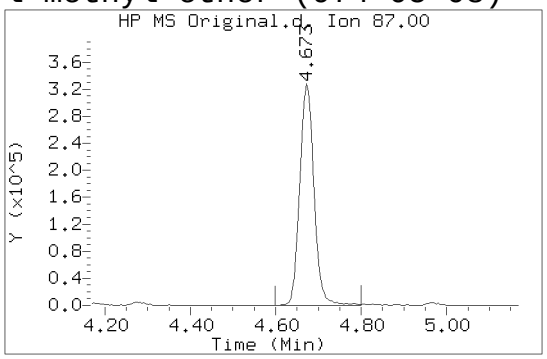


Data File : \\NAHSTWS005\Target\chem\voa6.i\X230714.b\X071410.D
Inj Date : 14-JUL-2023 15:05
InstruID : voa6.i
LabSampID : VSTD150

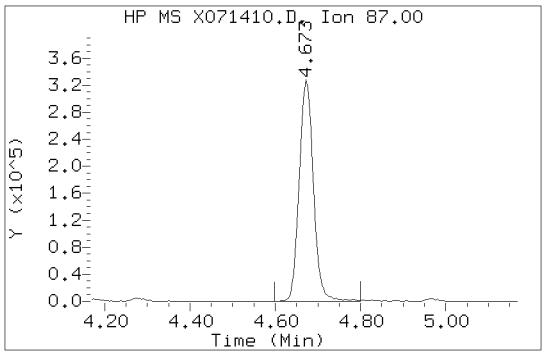
tert-Amyl methyl ether (974-05-08)

Reason Code:

BEFORE
MASS
87
AREA
775395
HEIGHT
328192
20-Jul-2023
15:04
linh
pham



AFTER
MASS
87
AREA
775395
HEIGHT
328192
20-Jul-2023
15:04
linh
pham



BEFORE
MASS
55
AREA
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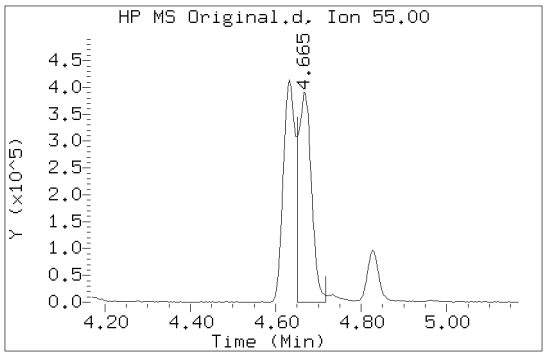
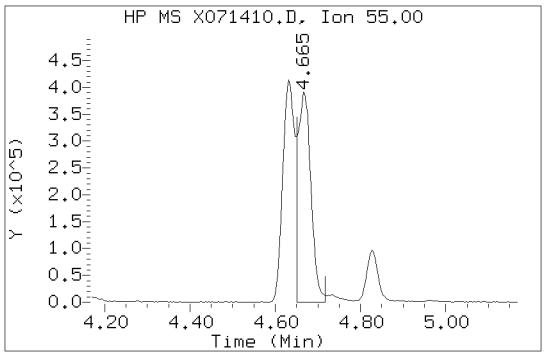
HEIGHT
391260
20-Jul-2023
15:04
linh
pham



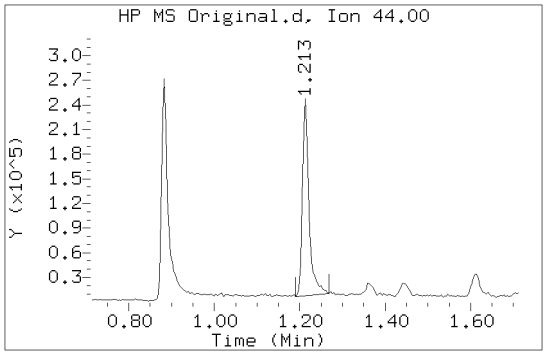
AFTER
MASS
55
AREA
853298
HEIGHT
391260
20-Jul-2023
15:04
linh
pham



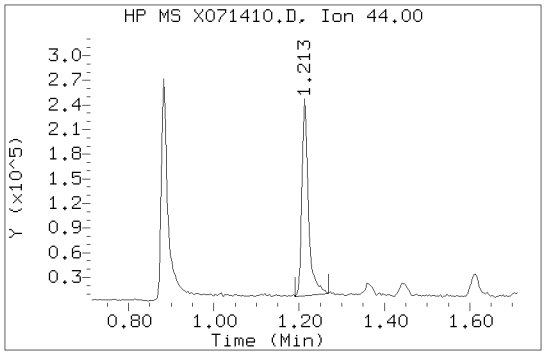
Acetaldehyde (75-07-0)

Reason Code:

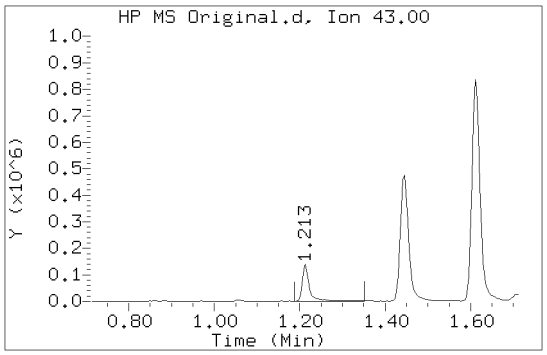
BEFORE
MASS
44
AREA
265471
HEIGHT
240024
20-Jul-2023
15:04
linh
pham



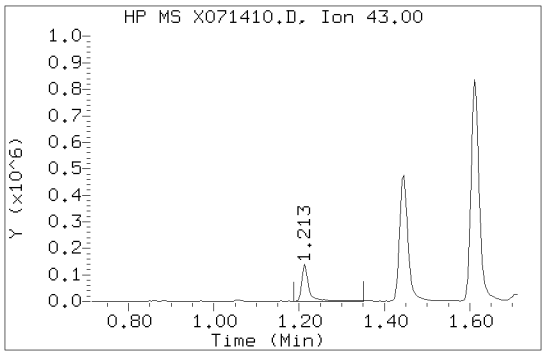
AFTER
MASS
44
AREA
265471
HEIGHT
240024
20-Jul-2023
15:04
linh
pham



BEFORE
MASS
43
AREA
162116
HEIGHT
140408
20-Jul-2023
15:04
linh
pham



AFTER
MASS
43
AREA
162116
HEIGHT
140408
20-Jul-2023
15:04
linh
pham



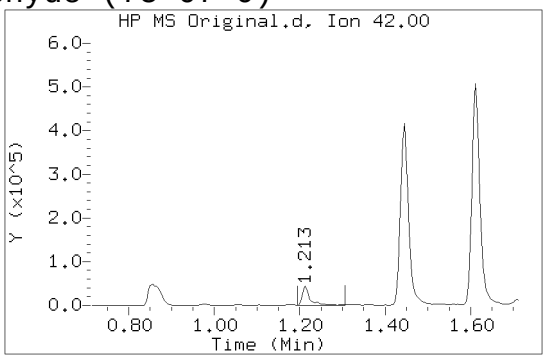
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230714.b\X071410.D
Inj Date : 14-JUL-2023 15:05
InstruID : voa6.i
LabSampID : VSTD150

Acetaldehyde (75-07-0)

Reason Code:

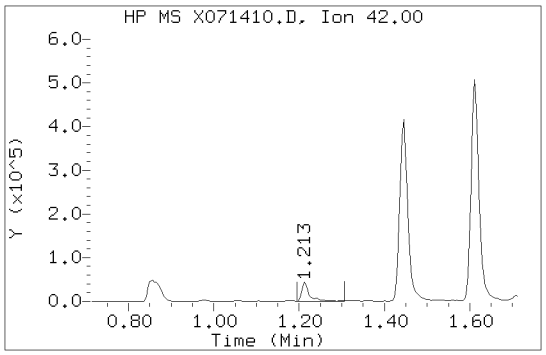
BEFORE

MASS
42
AREA
53628
HEIGHT
42843
20-Jul-2023
15:04
linh
pham



AFTER

MASS
42
AREA
53628
HEIGHT
42843
20-Jul-2023
15:04
linh
pham

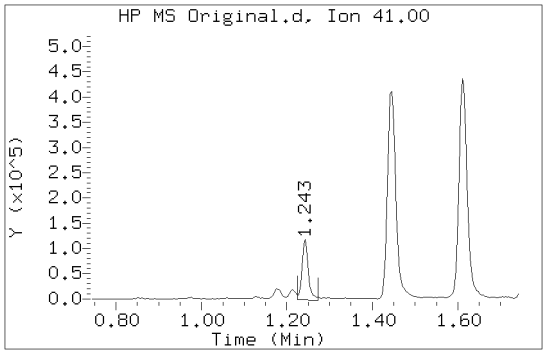


Isobutylene (115-11-7)

Reason Code:

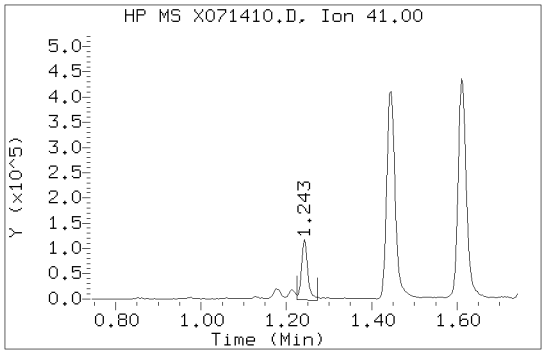
BEFORE

MASS
41
AREA
129814
HEIGHT
120099
20-Jul-2023
15:04
linh
pham



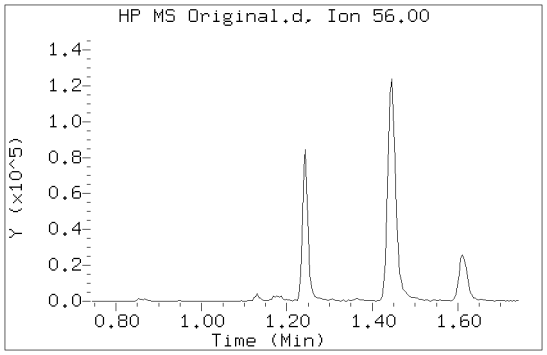
AFTER

MASS
41
AREA
129814
HEIGHT
120099
20-Jul-2023
15:04
linh
pham



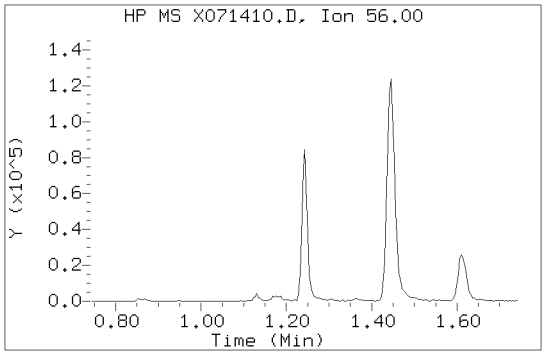
BEFORE

MASS
56
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham



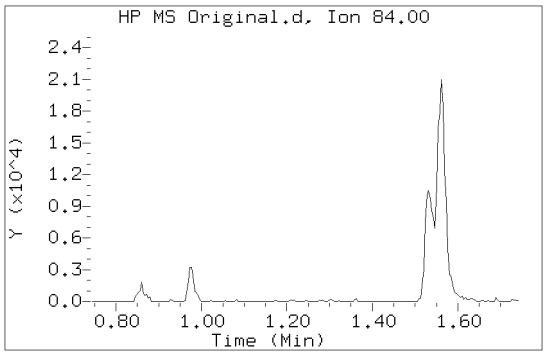
AFTER

MASS
56
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham



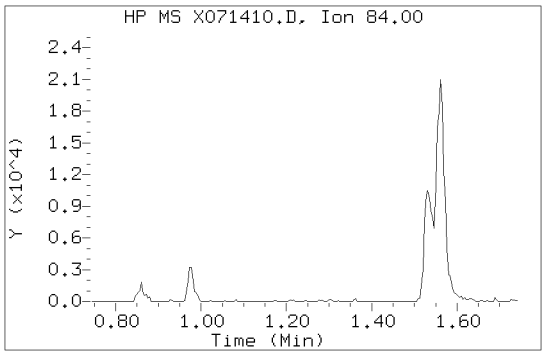
BEFORE

MASS
84
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham



AFTER

MASS
84
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham



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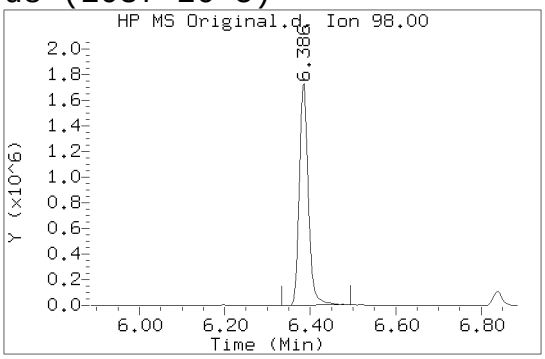
Inj Date : 14-JUL-2023 15:05
InstruID : voa6.i
LabSampID : VSTD150

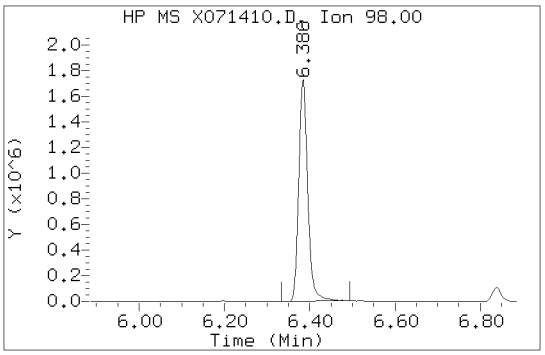
Toluene-d8 (2037-26-5)

Reason Code:

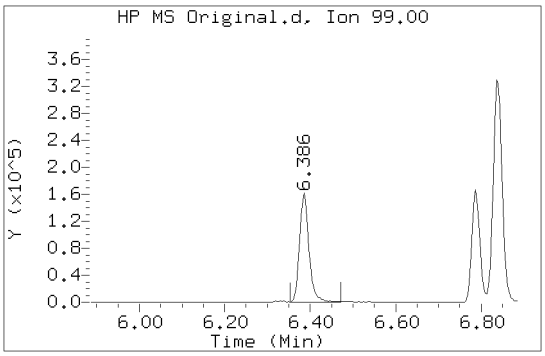
BEFORE
MASS
98
AREA
2609088
HEIGHT
1726183
20-Jul-2023
15:04
linh
pham



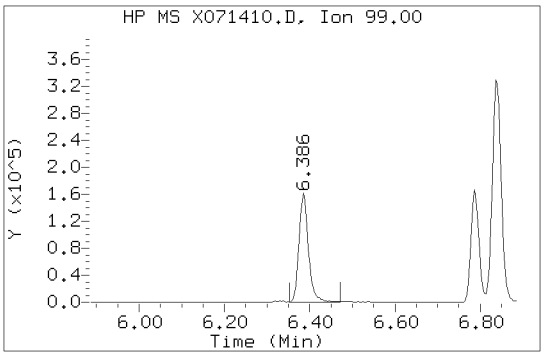
AFTER
MASS
98
AREA
2609088
HEIGHT
1726183
20-Jul-2023
15:04
linh
pham



BEFORE
MASS
99
AREA
255374
HEIGHT
162240
20-Jul-2023
15:04
linh
pham



AFTER
MASS
99
AREA
255374
HEIGHT
162240
20-Jul-2023
15:04
linh
pham



BEFORE
MASS
100
AREA
1734764
HEIGHT
1151862
20-Jul-2023
15:04
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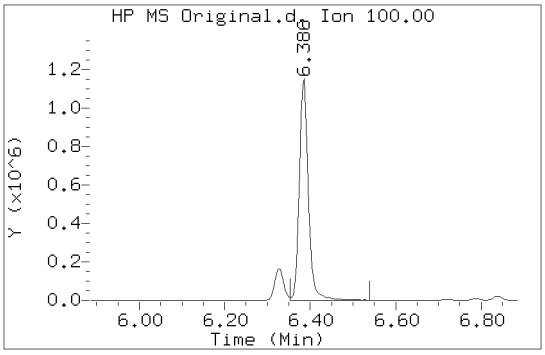

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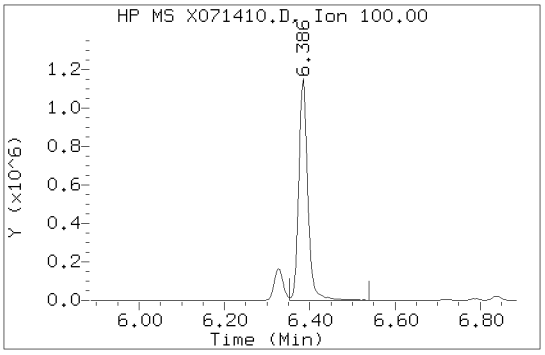

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Report Date: 20-Jul-2023 15:05

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230714.b\X071411.D
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Inj Date : 14-JUL-2023 15:25
Operator : PC Inst ID: voa6.i
Smp Info : VSTD200;VSTD200;1;10;
Misc Info : V6;WATER;0;1;
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Meth Date : 20-Jul-2023 15:05 voa6.i Quant Type: ISTD
Cal Date : 14-JUL-2023 15:05 Cal File: X071410.D
Als bottle: 12 Calibration Sample, Level: 10
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
*	1 Pentafluorobenzene	168	4.181	4.181	(1.000)	537032	50.0000	
	2 Dichlorodifluoromethane	85	0.976	0.976	(0.234)	1105119	200.000	197.85
	3 Chloromethane	50	1.081	1.081	(0.259)	1771073	200.000	218.34(A)
	4 Propionitrile	54	3.660	3.660	(0.875)	2109183	2000.00	1982.65
	5 Vinyl Chloride	62	1.145	1.145	(0.274)	1416013	200.000	203.75(A)
	6 Bromomethane	94	1.332	1.332	(0.319)	617046	200.000	214.56(A)
	7 Chloroethane	64	1.400	1.400	(0.335)	747413	200.000	188.39
	8 Trichlorofluoromethane	101	1.561	1.561	(0.373)	1509581	200.000	214.34(A)
	9 Acrolein	56	1.857	1.857	(0.444)	82636	400.000	402.90(AM)
	10 Acetone	43	1.973	1.973	(0.472)	806431	400.000	393.20
	11 1,1-Dichloroethene	96	1.913	1.913	(0.458)	797906	200.000	202.80(A)
	12 Isobutyl Alcohol	43	4.680	4.680	(1.119)	4072757	4000.00	4000.82(A)
	13 Acetonitrile	39	2.198	2.198	(0.526)	1461877	2000.00	1941.23
	14 Allyl Chloride	41	2.198	2.198	(0.526)	3258545	200.000	184.81
	15 Iodomethane	142	2.029	2.029	(0.485)	2365259	400.000	399.51
	16 Acrylonitrile	53	2.535	2.535	(0.606)	973671	400.000	372.06
	17 Methylene Chloride	84	2.303	2.303	(0.551)	893552	200.000	196.48
	18 Methyl tert-butyl ether	73	2.535	2.535	(0.606)	2728667	200.000	186.48
	19 Carbon Disulfide	76	2.071	2.071	(0.495)	5098731	400.000	412.27(A)
	20 trans-1,2-Dichloroethene	96	2.528	2.528	(0.605)	885590	200.000	194.59

21 Vinyl Acetate	43	3.000	3.000 (0.718)	7496591	400.000	398.30
22 1,1-Dichloroethane	63	2.922	2.922 (0.699)	1905438	200.000	190.79

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
23	Chloroprene	53	1.771	1.771	(0.424)	498457	200.000	206.42(A)
24	2-Butanone	43	3.581	3.581	(0.857)	1209313	400.000	422.85(A)
25	Methacrylonitrile	41	3.818	3.818	(0.913)	1405724	200.000	202.79(aA)
26	2,2-Dichloropropane	77	3.506	3.506	(0.839)	1535535	200.000	197.45
27	cis-1,2-Dichloroethene	96	3.521	3.521	(0.842)	1110625	200.000	191.56
28	Chloroform	83	3.904	3.904	(0.934)	1909053	200.000	186.82
29	Bromochloromethane	128	3.791	3.791	(0.907)	607870	200.000	187.09
$ 30	Dibromofluoromethane	113	4.099	4.099	(0.980)	959895	200.000	197.23
31	1,1,1-Trichloroethane	97	4.080	4.080	(0.976)	1657906	200.000	210.76(A)
32	1,1-Dichloropropene	75	4.279	4.279	(0.862)	1408668	200.000	209.46(A)
33	1,2-Dichloroethane	62	4.552	4.552	(0.917)	1793850	200.000	197.64
34	Carbon Tetrachloride	117	4.260	4.260	(0.858)	1394099	200.000	205.76(AH)
$ 35	1,2-Dichloroethane-d4	65	4.470	4.470	(1.069)	1203985	200.000	197.42
* 36	1,4-Difluorobenzene	114	4.965	4.965	(1.000)	824484	50.0000	
37	Benzene	78	4.511	4.511	(0.909)	3956301	200.000	200.61(A)
38	Trichloroethene	130	5.205	5.205	(1.048)	1148728	200.000	205.93(A)
39	Bromodichloromethane	83	5.722	5.722	(1.153)	1517659	200.000	200.91(A)
40	Methyl Methacrylate	41	5.606	5.606	(1.341)	1251379	200.000	193.06
41	2-Chloroethylvinyl ether	63	6.048	6.048	(1.218)	991998	400.000	430.11(A)
42	1,2-Dichloropropane	63	5.437	5.437	(1.095)	1286655	200.000	202.89(A)
43	2-Nitropropane	43	5.969	5.969	(1.428)	436967	200.000	204.81(A)
44	Dibromomethane	93	5.549	5.549	(1.118)	688009	200.000	191.66
45	4-Methyl-2-Pentanone	43	6.325	6.325	(0.825)	3017637	400.000	395.46
46	cis-1,3-Dichloropropene	75	6.153	6.153	(1.239)	1783083	200.000	205.51(A)
* 47	Chlorobenzene-d5	117	7.667	7.667	(1.000)	775428	50.0000	
$ 48	Toluene-d8	98	6.385	6.385	(0.833)	3447548	200.000	172.68(M)
49	Ethyl Methacrylate	69	6.719	6.719	(1.353)	1128954	200.000	209.07
50	Toluene	91	6.445	6.445	(0.841)	4312229	200.000	206.58(A)
51	trans-1,3-Dichloropropene	75	6.678	6.678	(1.345)	1544556	200.000	211.18(A)
52	2-Hexanone	43	7.086	7.086	(0.924)	2017738	400.000	402.53(A)
53	1,1,2-Trichloroethane	83	6.839	6.839	(0.892)	846183	200.000	191.10
54	1,3-Dichloropropane	76	6.981	6.981	(0.911)	1733058	200.000	191.57
55	Dibromochloromethane	129	7.173	7.173	(0.935)	1320761	200.000	206.61(A)
56	Tetrachloroethene	164	6.925	6.925	(0.903)	902535	200.000	209.29(A)
57	1,2-Dibromoethane	107	7.259	7.259	(0.947)	964928	200.000	190.69
58	1-Chlorohexane	55	7.694	7.694	(1.550)	1371878	200.000	207.11(A)
59	Chlorobenzene	112	7.690	7.690	(1.003)	2926240	200.000	200.54(A)
60	1,1,1,2-Tetrachloroethane	131	7.772	7.772	(1.014)	1173596	200.000	205.45(A)
61	Ethylbenzene	106	7.799	7.799	(1.017)	1505552	200.000	205.76(A)
62	m,p-Xylenes	106	7.900	7.900	(1.030)	3831125	400.000	417.37(A)
63	o-Xylene	106	8.241	8.241	(1.075)	1805494	200.000	207.70(A)
64	Styrene	104	8.256	8.256	(1.077)	3136788	200.000	206.88(A)
66	Bromoform	173	8.406	8.406	(1.096)	880696	200.000	214.73(A)
67	Isopropylbenzene	105	8.560	8.560	(1.116)	4823863	200.000	215.89(A)
68	1,1,2,2-Tetrachloroethane	83	8.837	8.837	(0.915)	1401164	200.000	192.48
$ 69	4-Bromofluorobenzene	95	8.687	8.687	(1.133)	1538168	200.000	200.50(A)
* 70	1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	433375	50.0000	
71	1,2,3-Trichloropropane	75	8.863	8.863	(0.917)	1119387	200.000	193.78(M)
72	trans-1,4-Dichloro-2-butene	53	8.886	8.886	(1.159)	524884	200.000	222.56(A)
73	n-Propylbenzene	91	8.912	8.912	(0.922)	5714404	200.000	218.20(A)
74	Bromobenzene	156	8.803	8.803	(0.911)	1365207	200.000	201.42(A)
75	1,3,5-Trimethylbenzene	105	9.066	9.066	(0.938)	4273312	200.000	217.81(A)

76	2-Chlorotoluene	91	8.972	8.972 (0.929)	3520653	200.000	199.28
77	4-Chlorotoluene	91	9.069	9.069 (0.939)	4116709	200.000	212.06(A)

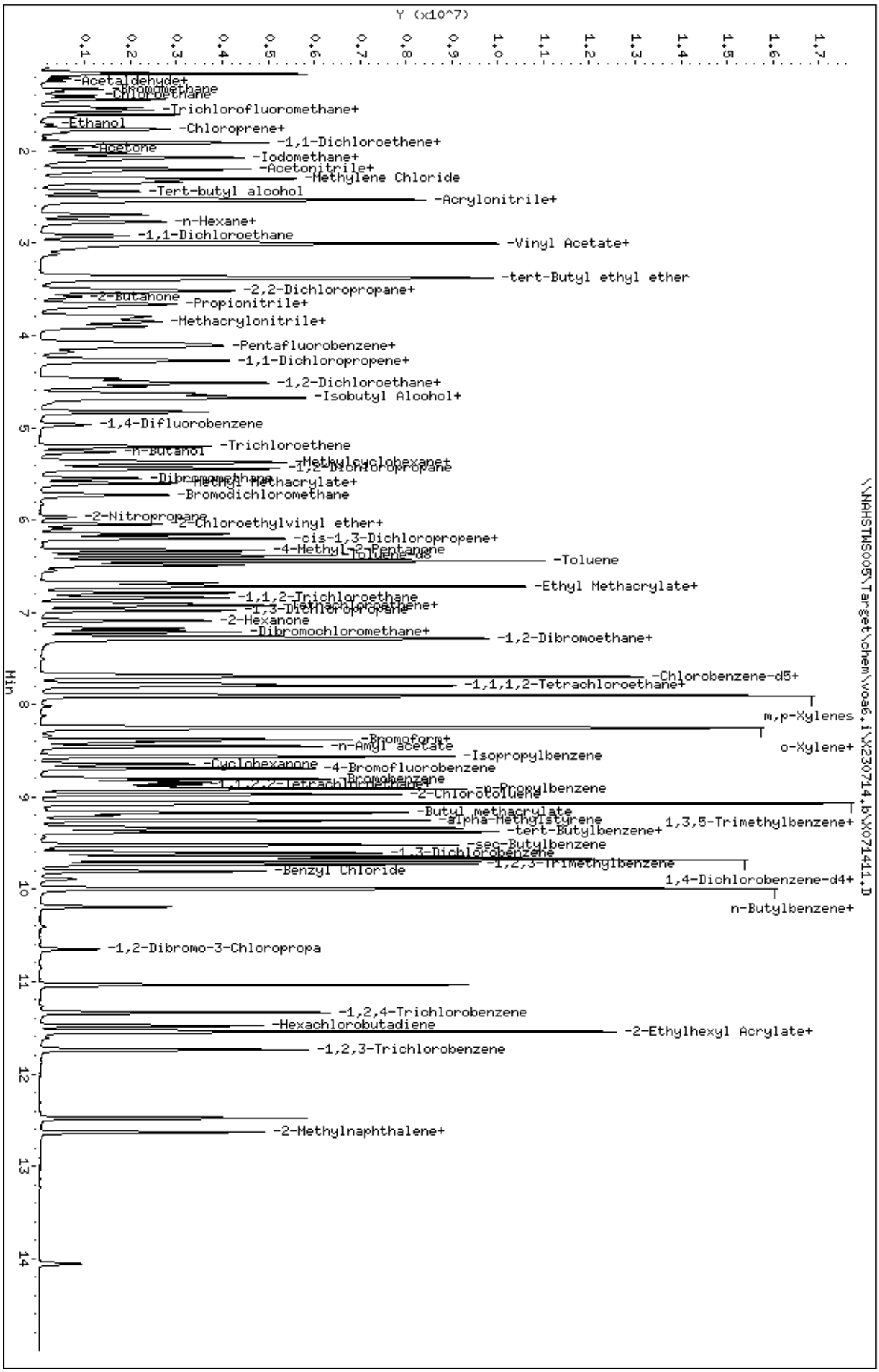
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
78	tert-Butylbenzene	119	9.336	9.336	(0.966)	3564918	200.000	211.88(A)
79	1,2,4-Trimethylbenzene	105	9.377	9.377	(0.971)	4248690	200.000	215.95(A)
81	sec-Butylbenzene	105	9.519	9.519	(0.985)	4998963	200.000	222.91(A)
82	p-Isopropyltoluene	119	9.647	9.647	(0.998)	4531097	200.000	221.18(A)
83	1,3-Dichlorobenzene	146	9.602	9.602	(0.994)	2443663	200.000	206.95(A)
84	1,4-Dichlorobenzene	146	9.680	9.680	(1.002)	2568367	200.000	198.39
86	Benzyl Chloride	91	9.804	9.804	(1.279)	2751633	200.000	201.10(A)
87	n-Butylbenzene	91	9.992	9.992	(1.034)	3988441	200.000	232.46(A)
88	1,2-Dichlorobenzene	146	9.992	9.992	(1.034)	2403758	200.000	207.07(A)
89	1,2-Dibromo-3-Chloropropane	155	10.651	10.651	(1.102)	242707	200.000	199.51
90	1,2,4-Trichlorobenzene	180	11.334	11.334	(1.173)	1693827	200.000	212.44(A)
91	Hexachlorobutadiene	225	11.480	11.480	(1.188)	760294	200.000	199.55
92	Naphthalene	128	11.536	11.536	(1.194)	4036891	200.000	204.57(AH)
93	1,2,3-Trichlorobenzene	180	11.738	11.738	(1.215)	1513592	200.000	202.99(A)
146	Methyl acetate	43	2.228	2.228	(0.533)	902568	200.000	188.84
138	Freon TF	101	1.917	1.917	(0.459)	815067	200.000	103.34
141	Cyclohexane	56	4.117	4.117	(0.985)	2078176	200.000	223.25(A)
142	Tetrahydrofuran	42	3.851	3.851	(0.921)	520211	400.000	376.52
147	Methylcyclohexane	55	5.381	5.381	(1.084)	3760283	200.000	216.07(A)
135	1,4-Dioxane	88	5.602	5.602	(1.340)	258483	4000.00	4050.44(A)
132	n-Butanol	56	5.261	5.261	(1.258)	850812	4000.00	4759.14(A)
131	Methyl Acrylate	55	3.686	3.686	(0.882)	1635344	200.000	224.02(A)
133	Ethyl Acrylate	55	5.381	5.381	(1.287)	3760283	200.000	211.27(A)
136	n-Hexane	57	2.768	2.768	(0.662)	1402092	200.000	83.16
139	Diethyl ether	59	1.760	1.760	(0.421)	924117	200.000	184.53
148	Tert-butyl alcohol	59	2.442	2.442	(0.584)	2546793	4000.00	3757.39
149	Isopropyl alcohol	45	2.101	2.101	(0.502)	1585037	4000.00	3768.67
156	Diisopropyl ether	45	3.008	3.008	(0.719)	4204307	200.000	189.94
166	1,2,3-Trimethylbenzene	105	9.729	9.729	(1.007)	4285563	200.000	213.92(A)
167	Ethanol	45	1.711	1.711	(0.409)	291912	4000.00	3940.79
172	tert-Butyl formate	59	4.635	4.635	(1.108)	2334112	400.000	406.87(AM)
173	3,3-Dimethyl-1-butanol	57	7.293	7.293	(0.951)	3164338	4000.00	3794.46
174	tert-Amyl methyl ether	73	4.668	4.668	(1.117)	3325871	200.000	188.25(M)
175	tert-Butyl ethyl ether	59	3.379	3.379	(0.808)	4320968	200.000	190.05
176	tert-Amyl alcohol	59	4.635	4.635	(1.108)	2334112	4000.00	3978.56(M)
151	4-Methyl-2-pentanol	45	6.715	6.715	(1.353)	7205996	4000.00	4078.30(A)
180	1-Methylnaphthalene	142	12.631	12.631	(1.307)	1852094	200.000	(a)
140	1,3-Butadiene	54	1.167	1.167	(0.279)	1429438	200.000	207.14(A)
152	Amyl alcohol	42	6.903	6.903	(0.900)	980159	4000.00	4395.46(A)
158	Dichlorofluoromethane	67	1.531	1.531	(0.366)	1636710	200.000	189.15
159	Propylene oxide	43	1.805	1.805	(0.432)	214178	400.000	325.08
161	3-Methyl-1-butanol	55	6.903	6.903	(0.900)	873259	4000.00	4574.19(A)
162	Butyl acrylate	55	8.248	8.248	(1.076)	3266024	200.000	221.39(A)
163	Butyl methacrylate	41	9.171	9.171	(0.949)	2061719	200.000	198.61
164	Dicyclopentadiene	66	9.684	9.684	(1.002)	5152004	200.000	206.38(A)
182	Epichlorohydrin	57	6.093	6.093	(1.227)	509575	800.000	827.43(A)
M 94	1,2-Dichloroethylene (total)	96				1996215	400.000	(a)
145	alpha-Methylstyrene	118	9.257	9.257	(0.958)	1984425	200.000	209.88(A)
130	Ethyl Acetate	43	3.660	3.660	(0.875)	1526148	200.000	191.33
134	Cyclohexanone	55	8.642	8.642	(0.894)	1269424	4000.00	3290.23
185	Isoprene	39	1.771	1.771	(0.424)	352780	200.000	199.28
188	Isopropyl acetate	43	4.680	4.680	(0.943)	4112016	200.000	189.15

187 n-Amyl acetate	43	8.451	8.451 (1.102)	2862687	200.000	201.43(A)
189 n-Butyl acetate	43	7.210	7.210 (0.940)	2520952	200.000	212.11(AH)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
150 Allyl alcohol	57	2.768	2.768	(0.662)	1402092	4000.00	1651.10
194 Acetaldehyde	44	1.212	1.212	(0.290)	347350	800.000	779.86(M)
195 Methyl Amyl Ketone	43	8.380	8.380	(1.093)	3390972	200.000	209.22
200 Dimethyl Disulfide	94	6.198	6.198	(0.808)	2283547	200.000	218.32(A)
202 Isobutylene	41	1.242	1.242	(0.297)	170200	200.000	191.69(M)
205 2-Ethylhexyl Acrylate	55	11.547	11.547	(1.195)	2531204	200.000	228.67(A)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
exceeded maximum amount.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.



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Purge Volume: 5.0
Column phase: DB624

Instrument: voa6.i
Operator: PC
Column diameter: 0.18

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Inj Date : 14-JUL-2023 15:25
InstruID : voa6.i
LabSampID : VSTD200

Acrolein (107-02-8)

Reason Code:

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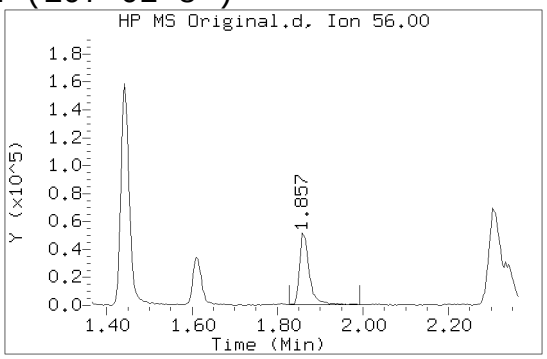

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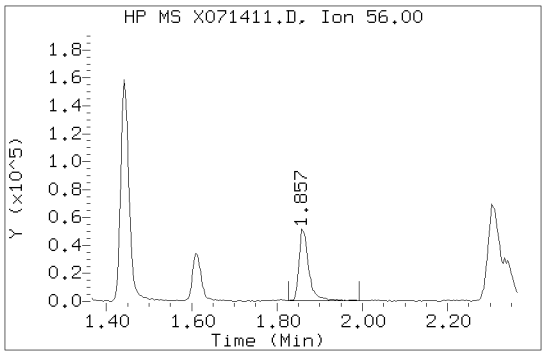

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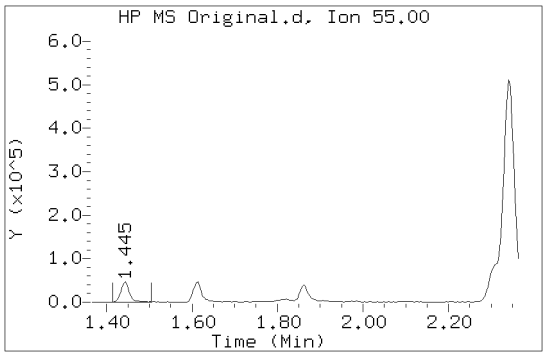

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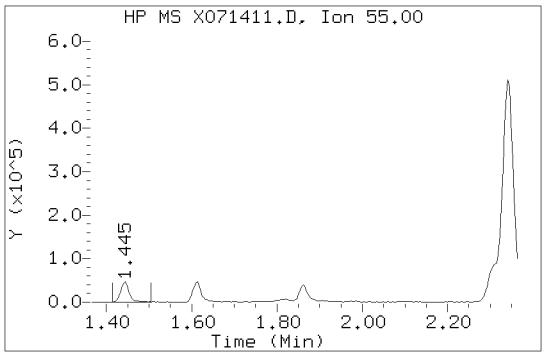

1,2,3-Trichloropropane (96-18-4)

Reason Code:

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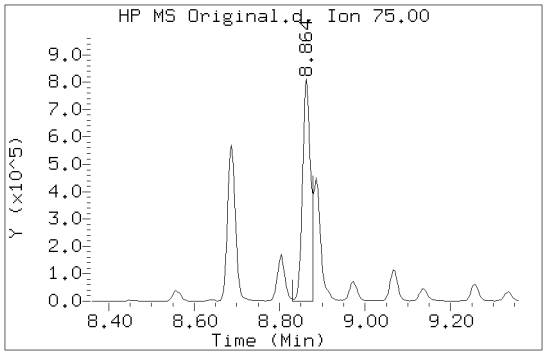

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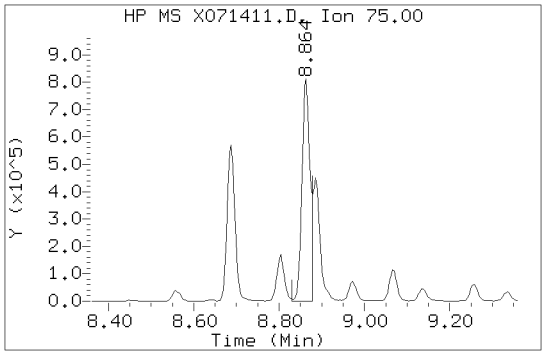

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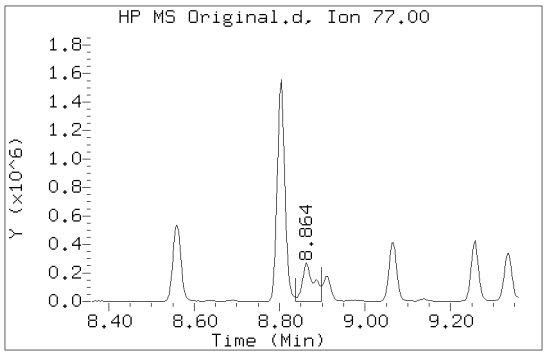

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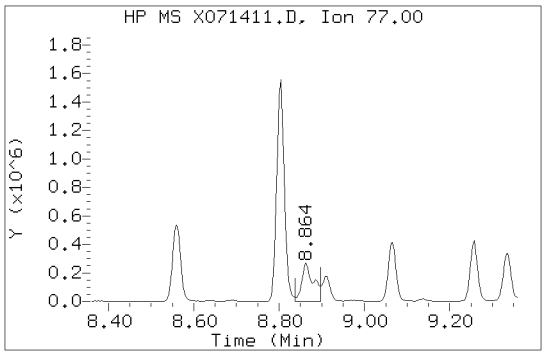

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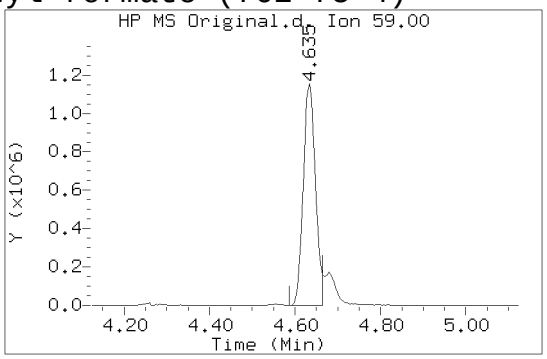
Inj Date : 14-JUL-2023 15:25
InstruID : voa6.i
LabSampID : VSTD200

tert-Butyl formate (762-75-4)

Reason Code:

BEFORE
MASS
59
AREA
2334112
HEIGHT
1154659
20-Jul-2023
15:04
linh
pham



AFTER
MASS
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AREA
2334112
HEIGHT
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20-Jul-2023
15:04
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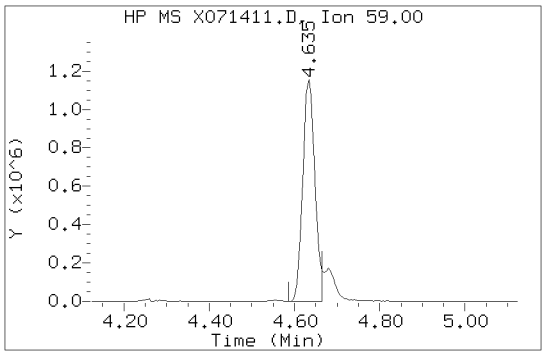

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61248
HEIGHT
27018
20-Jul-2023
15:04
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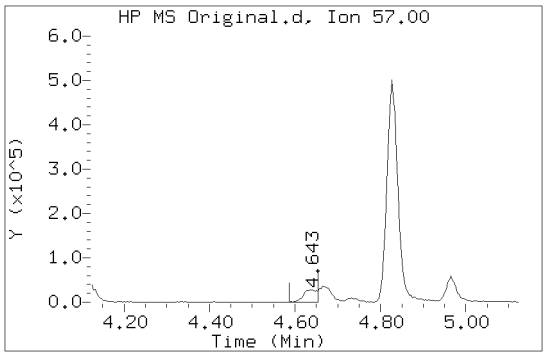

AFTER
MASS
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AREA
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20-Jul-2023
15:04
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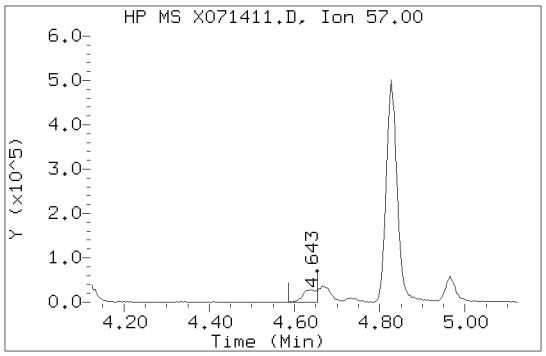

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190663
20-Jul-2023
15:04
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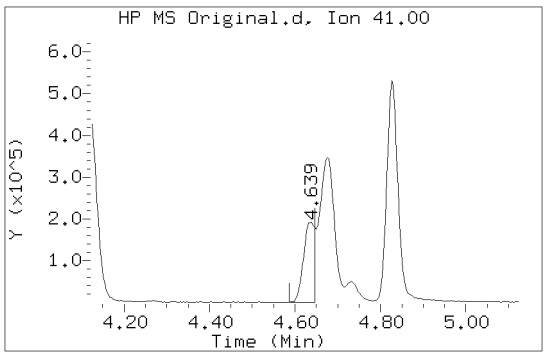
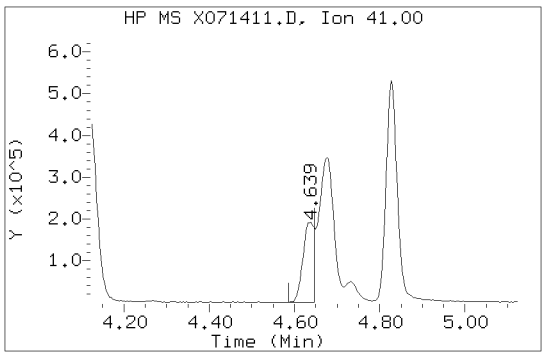
pham



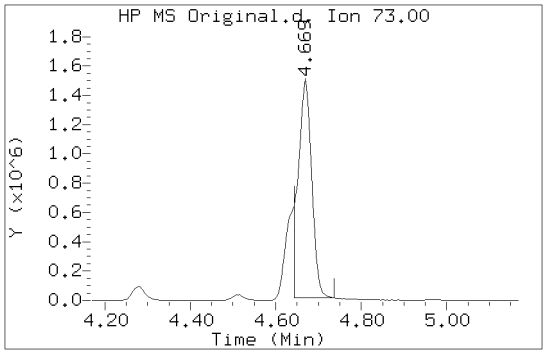
AFTER
MASS
41
AREA
348681
HEIGHT
190663
20-Jul-2023
15:04
linh
pham



tert-Amyl methyl ether (974-05-08)

Reason Code:

BEFORE
MASS
73
AREA
3325871
HEIGHT
1495166
20-Jul-2023
15:04
linh
pham



AFTER
MASS
73
AREA
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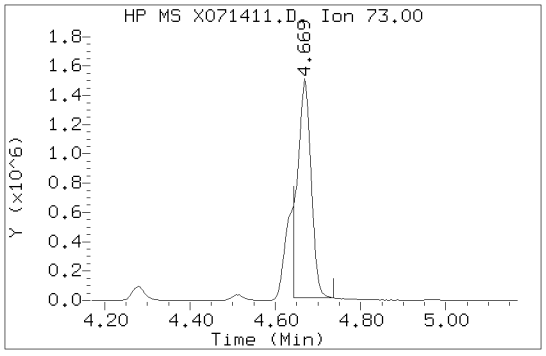
HEIGHT
1495166
20-Jul-2023
15:04
linh
pham



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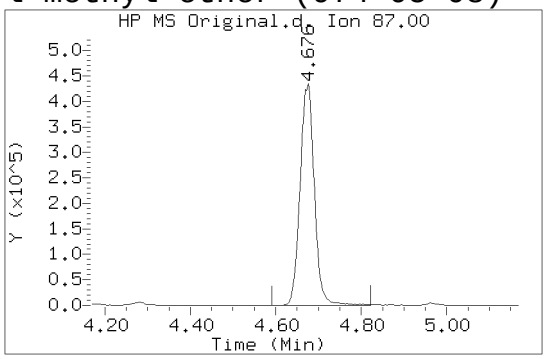
Inj Date : 14-JUL-2023 15:25
InstruID : voa6.i
LabSampID : VSTD200

tert-Amyl methyl ether (974-05-08)

Reason Code:

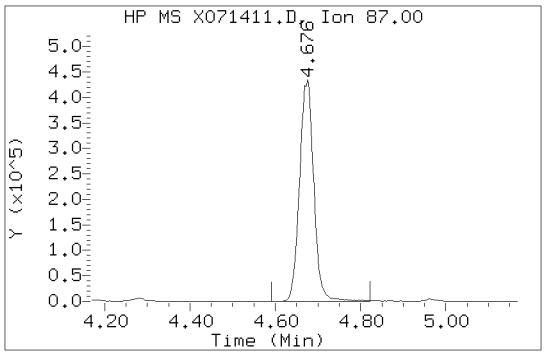
BEFORE

MASS
87
AREA
1024271
HEIGHT
434624
20-Jul-2023
15:04
linh
pham



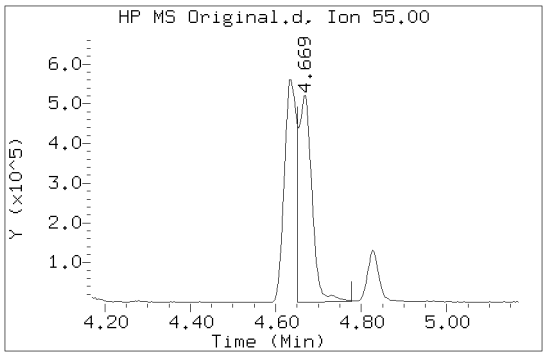
AFTER

MASS
87
AREA
1024271
HEIGHT
434624
20-Jul-2023
15:04
linh
pham



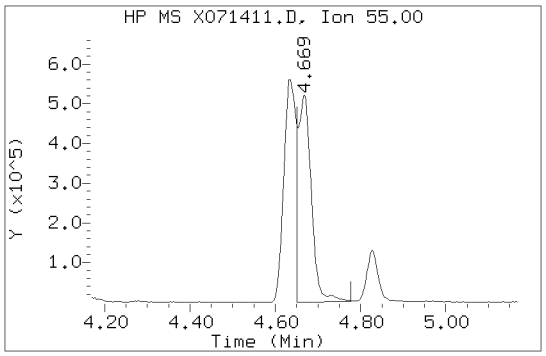
BEFORE

MASS
55
AREA
1191571
HEIGHT
521301
20-Jul-2023
15:04
linh
pham



AFTER

MASS
55
AREA
1191571
HEIGHT
521301
20-Jul-2023
15:04
linh
pham

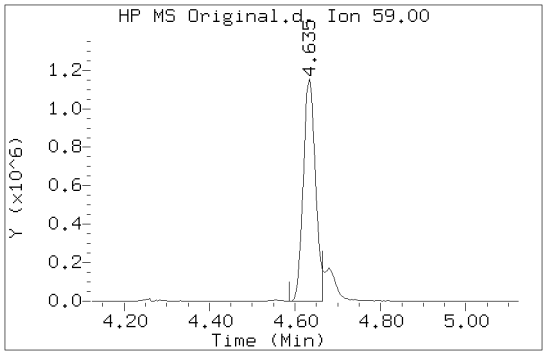


tert-Amyl alcohol (75-85-4)

Reason Code:

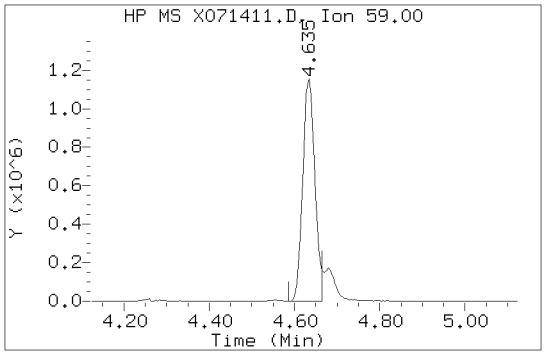
BEFORE

MASS
59
AREA
2334112
HEIGHT
1154659
20-Jul-2023
15:04
linh
pham



AFTER

MASS
59
AREA
2334112
HEIGHT
1154659
20-Jul-2023
15:04
linh
pham



BEFORE

MASS
55
AREA
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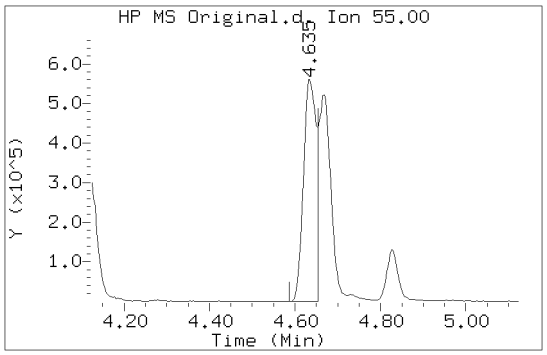
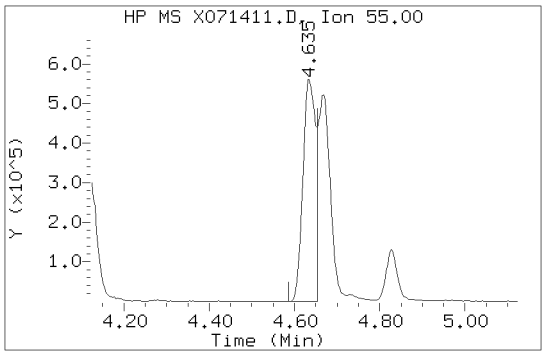
HEIGHT
559928
20-Jul-2023
15:04
linh
pham



AFTER

MASS
55
AREA
1205179
HEIGHT
559928
20-Jul-2023
15:04
linh
pham



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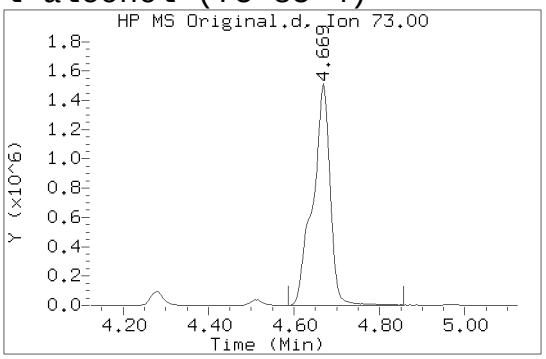
Inj Date : 14-JUL-2023 15:25
InstruID : voa6.i
LabSampID : VSTD200

tert-Amyl alcohol (75-85-4)

Reason Code:

BEFORE

MASS
73
AREA
4277303
HEIGHT
1513022
20-Jul-2023
15:04
linh
pham



AFTER

MASS
73
AREA
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HEIGHT
1513022
20-Jul-2023
15:04
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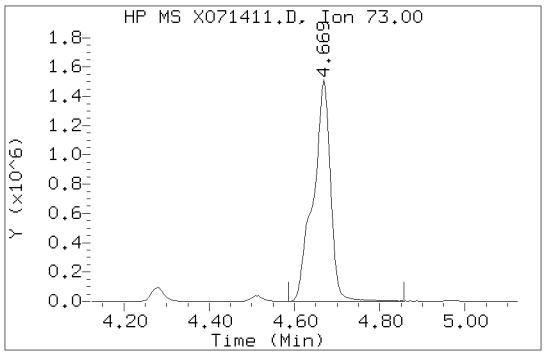
pham

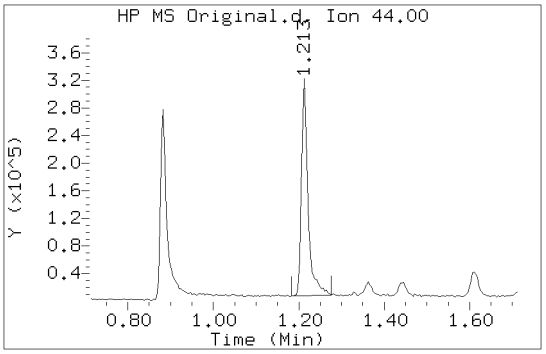


Acetaldehyde (75-07-0)

Reason Code:

BEFORE

MASS
44
AREA
347350
HEIGHT
313846
20-Jul-2023
15:04
linh
pham



AFTER

MASS
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AREA
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HEIGHT
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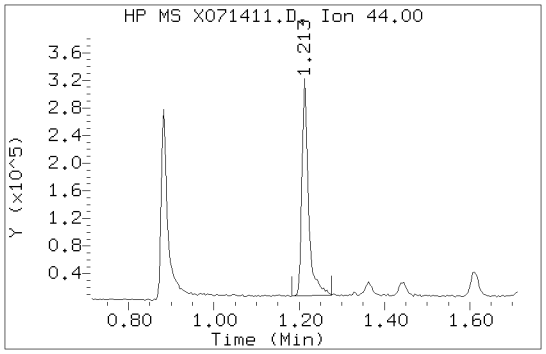
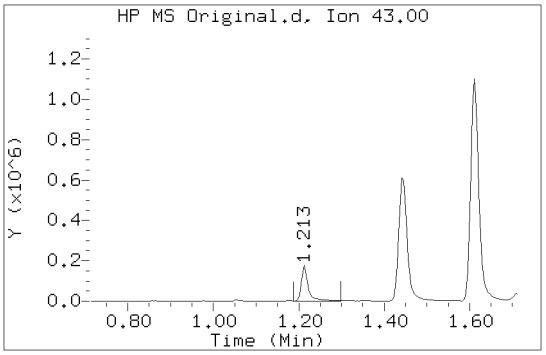
20-Jul-2023
15:04
linh
pham



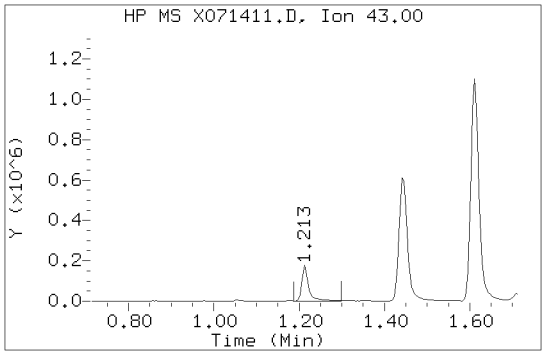
BEFORE

MASS
43
AREA
201165
HEIGHT
178522
20-Jul-2023
15:04
linh
pham



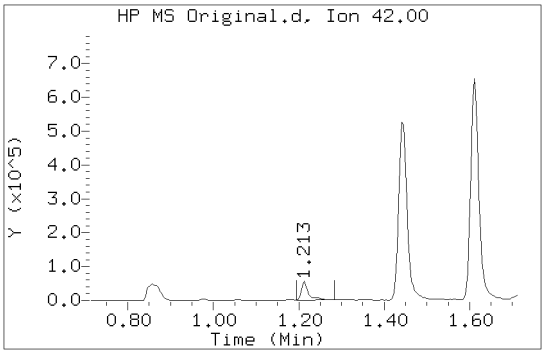
AFTER

MASS
43
AREA
201165
HEIGHT
178522
20-Jul-2023
15:04
linh
pham



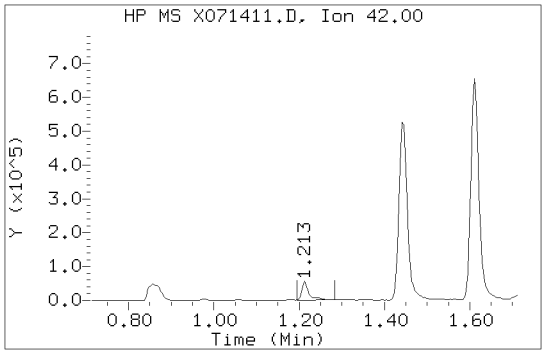
BEFORE

MASS
42
AREA
64792
HEIGHT
55441
20-Jul-2023
15:04
linh
pham



AFTER

MASS
42
AREA
64792
HEIGHT
55441
20-Jul-2023
15:04
linh
pham



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Inj Date : 14-JUL-2023 15:25
InstruID : voa6.i
LabSampID : VSTD200

Isobutylene (115-11-7)

Reason Code:

BEFORE
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41
AREA
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HEIGHT
165804
20-Jul-2023
15:04
linh
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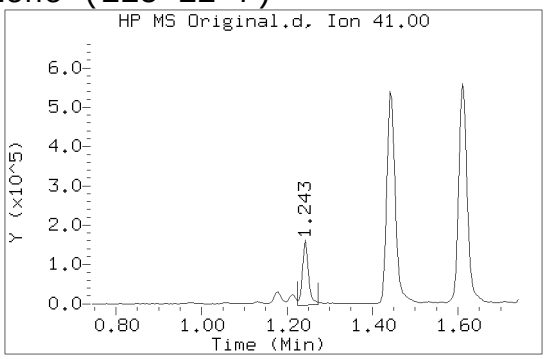

AFTER
MASS
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AREA
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20-Jul-2023
15:04
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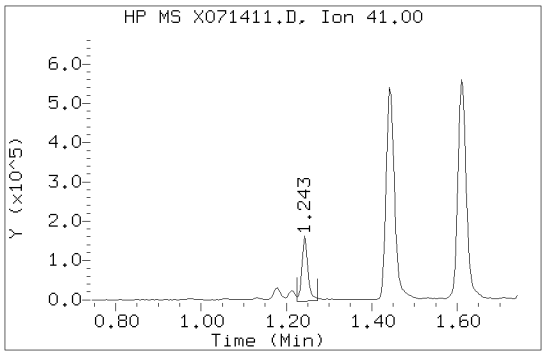

BEFORE
MASS
56
AREA
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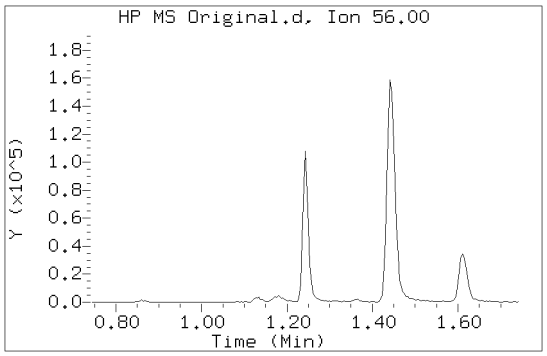
HEIGHT
0
20-Jul-2023
15:04
linh
pham



AFTER
MASS
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AREA
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HEIGHT
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20-Jul-2023
15:04
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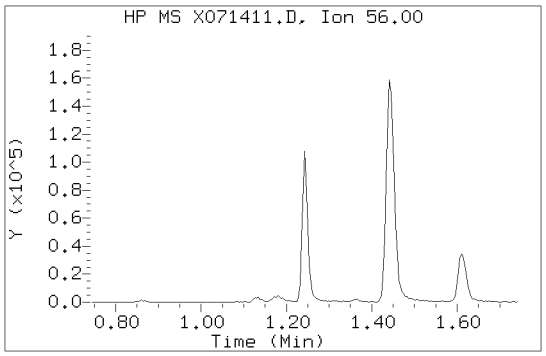

BEFORE
MASS
84
AREA
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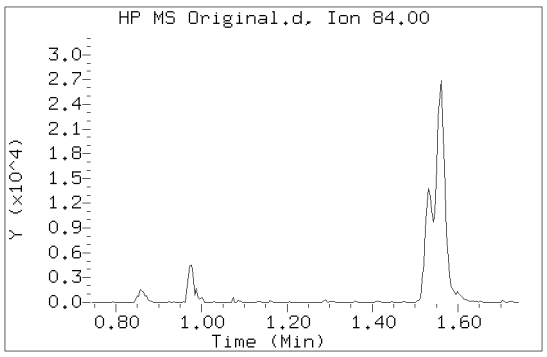
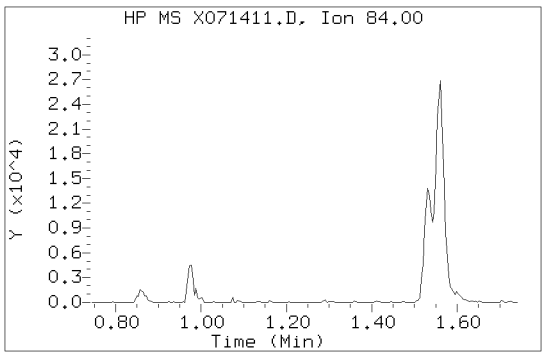
HEIGHT
0
20-Jul-2023
15:04
linh
pham



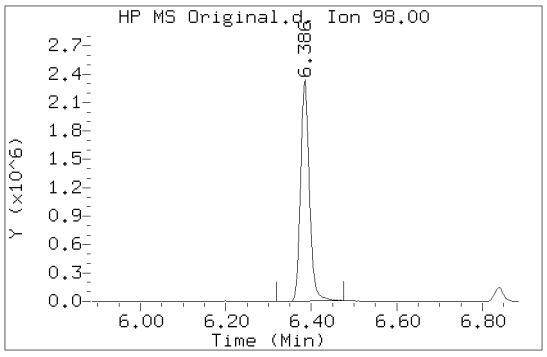
AFTER
MASS
84
AREA
0
HEIGHT
0
20-Jul-2023
15:04
linh
pham



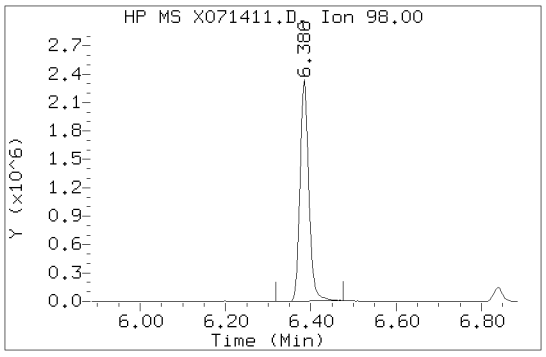
Toluene-d8 (2037-26-5)

Reason Code:

BEFORE
MASS
98
AREA
3447548
HEIGHT
2338393
20-Jul-2023
15:04
linh
pham



AFTER
MASS
98
AREA
3447548
HEIGHT
2338393
20-Jul-2023
15:04
linh
pham



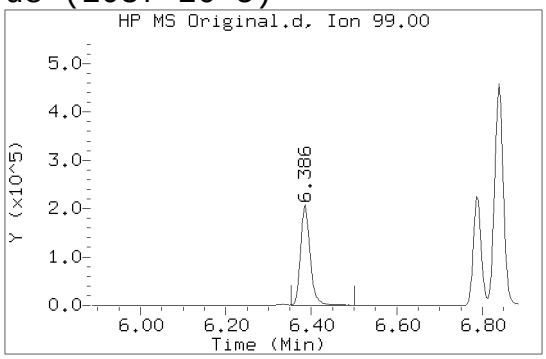
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230714.b\X071411.D
Inj Date : 14-JUL-2023 15:25
InstruID : voa6.i
LabSampID : VSTD200

Toluene-d8 (2037-26-5)

Reason Code:

BEFORE

MASS
99
AREA
332540
HEIGHT
208135
20-Jul-2023
15:04
linh
pham



AFTER

MASS
99
AREA
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HEIGHT
208135
20-Jul-2023
15:04
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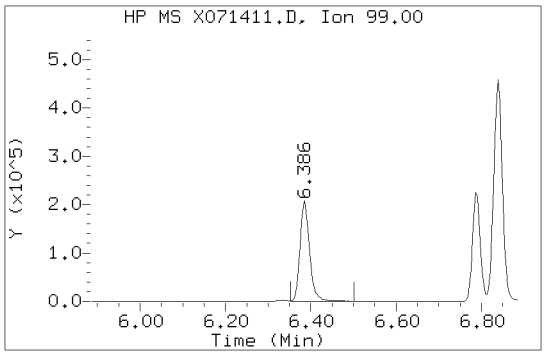
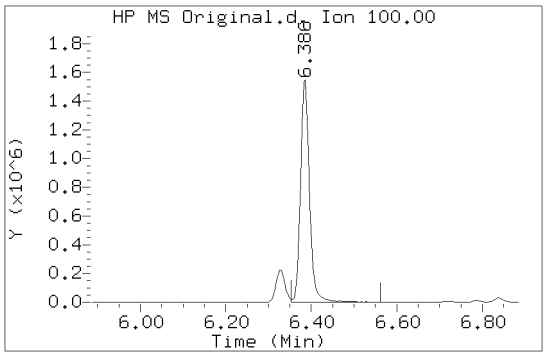


BEFORE

MASS
100
AREA
2330683
HEIGHT
1547095
20-Jul-2023
15:04
linh
pham



AFTER

MASS
100
AREA
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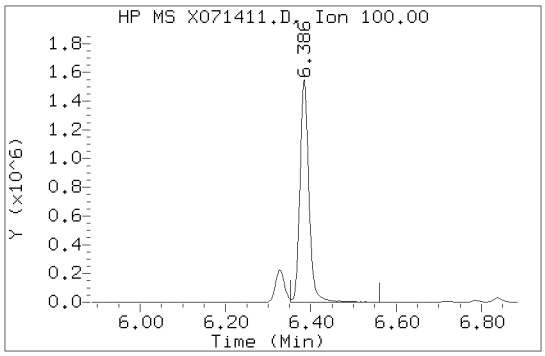
HEIGHT
1547095
20-Jul-2023
15:04
linh
pham



ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230714.b\X071413.D
Lab Smp Id: ICV Client Smp ID: ICV
Inj Date : 14-JUL-2023 16:06
Operator : PC Inst ID: voa6.i
Smp Info : CCV;CCV;2;;ICV
Misc Info : V6;WATER;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\voa6.i\X230714.b\8260W.m
Meth Date : 20-Jul-2023 15:05 voa6.i Quant Type: ISTD
Cal Date : 14-JUL-2023 15:25 Cal File: X071411.D
Als bottle: 14 QC Sample: METHSPIKE
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.178	4.181	(1.000)	523560	50.0000	
2 Dichlorodifluoromethane	85	0.976	0.976	(0.234)	235700	44.1394	44.13
3 Chloromethane	50	1.081	1.081	(0.259)	369706	46.7515	46.75
4 Propionitrile	54	3.656	3.660	(0.875)	514137	495.730	495.72
5 Vinyl Chloride	62	1.145	1.145	(0.274)	314786	46.4622	46.46
6 Bromomethane	94	1.344	1.332	(0.322)	147749	52.6978	52.69
7 Chloroethane	64	1.404	1.400	(0.336)	174555	45.1318	45.13
8 Trichlorofluoromethane	101	1.561	1.561	(0.374)	321870	46.8787	46.87
9 Acrolein	56	1.857	1.857	(0.445)	18891	95.3394	95.33
10 Acetone	43	1.973	1.973	(0.472)	226282	109.688	109.68
11 1,1-Dichloroethene	96	1.913	1.913	(0.458)	173630	45.2674	45.26
12 Isobutyl Alcohol	43	4.680	4.680	(1.120)	1029947	1037.79	1037.79
13 Acetonitrile	39	2.202	2.198	(0.527)	350837	477.867	477.86
14 Allyl Chloride	41	2.198	2.198	(0.526)	795160	46.2587	46.25
15 Iodomethane	142	2.030	2.029	(0.486)	426627	85.2702	85.27
16 Acrylonitrile	53	2.536	2.535	(0.607)	247354	96.9514	96.95
17 Methylene Chloride	84	2.303	2.303	(0.551)	221542	48.9173	48.91
18 Methyl tert-butyl ether	73	2.539	2.535	(0.608)	686179	48.1012	48.10
19 Carbon Disulfide	76	2.071	2.071	(0.496)	1115788	92.5432	92.54
20 trans-1,2-Dichloroethene	96	2.528	2.528	(0.605)	201576	45.4331	45.43

21 Vinyl Acetate	43	3.000	3.000 (0.718)	1840684	100.315	100.31
22 1,1-Dichloroethane	63	2.918	2.922 (0.699)	455953	46.8308	46.83

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
	23 Chloroprene	53	1.771	1.771	(0.424)	106109	45.0742	45.07(M)
	24 2-Butanone	43	3.582	3.581	(0.857)	292924	105.060	105.06
	25 Methacrylonitrile	41	3.825	3.818	(0.916)	346558	51.2815	51.28(a)
	26 2,2-Dichloropropane	77	3.510	3.506	(0.840)	355659	47.0700	47.06
	27 cis-1,2-Dichloroethene	96	3.522	3.521	(0.843)	269347	47.6547	47.65
	28 Chloroform	83	3.904	3.904	(0.935)	458057	45.9797	45.97
	29 Bromochloromethane	128	3.795	3.791	(0.908)	150697	47.5755	47.57
$	30 Dibromofluoromethane	113	4.099	4.099	(0.981)	251919	52.5379	52.53
	31 1,1,1-Trichloroethane	97	4.076	4.080	(0.976)	356334	46.4653	46.46
	32 1,1-Dichloropropene	75	4.279	4.279	(0.862)	303929	45.5996	45.59
	33 1,2-Dichloroethane	62	4.552	4.552	(0.917)	426885	47.4578	47.45
	34 Carbon Tetrachloride	117	4.264	4.260	(0.859)	294766	43.8978	43.89
$	35 1,2-Dichloroethane-d4	65	4.474	4.470	(1.071)	312436	52.0928	52.09
*	36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	817135	50.0000	
	37 Benzene	78	4.511	4.511	(0.909)	922063	47.1756	47.17
	38 Trichloroethene	130	5.205	5.205	(1.048)	257816	46.6338	46.63
	39 Bromodichloromethane	83	5.722	5.722	(1.153)	352205	47.0449	47.04
	40 Methyl Methacrylate	41	5.606	5.606	(1.342)	307355	48.6390	48.63
	41 2-Chloroethylvinyl ether	63	6.044	6.048	(1.217)	236549	103.486	103.48
	42 1,2-Dichloropropane	63	5.433	5.437	(1.094)	308027	49.0106	49.01
	43 2-Nitropropane	43	5.966	5.969	(1.428)	100815	48.4694	48.46
	44 Dibromomethane	93	5.550	5.549	(1.118)	168843	47.4595	47.45
	45 4-Methyl-2-Pentanone	43	6.326	6.325	(0.825)	705887	96.7791	96.77
	46 cis-1,3-Dichloropropene	75	6.153	6.153	(1.239)	426551	49.6054	49.60
*	47 Chlorobenzene-d5	117	7.668	7.667	(1.000)	741203	50.0000	
$	48 Toluene-d8	98	6.382	6.385	(0.832)	919255	48.1696	48.16
	49 Ethyl Methacrylate	69	6.712	6.719	(1.352)	227813	42.5696	42.56
	50 Toluene	91	6.442	6.445	(0.840)	975883	48.9113	48.91
	51 trans-1,3-Dichloropropene	75	6.682	6.678	(1.346)	355856	49.0932	49.09
	52 2-Hexanone	43	7.086	7.086	(0.924)	481140	100.419	100.41
	53 1,1,2-Trichloroethane	83	6.835	6.839	(0.891)	205333	48.5132	48.51
	54 1,3-Dichloropropane	76	6.982	6.981	(0.911)	419059	48.4632	48.46
	55 Dibromochloromethane	129	7.173	7.173	(0.935)	311577	50.9926	50.99
	56 Tetrachloroethene	164	6.925	6.925	(0.903)	194514	47.1890	47.18
	57 1,2-Dibromoethane	107	7.259	7.259	(0.947)	231451	47.8539	47.85
	58 1-Chlorohexane	55	7.694	7.694	(1.550)	263762	40.1795	40.17
	59 Chlorobenzene	112	7.690	7.690	(1.003)	668608	47.9390	47.93
	60 1,1,1,2-Tetrachloroethane	131	7.772	7.772	(1.014)	267606	49.0109	49.01
	61 Ethylbenzene	106	7.795	7.799	(1.017)	323263	46.2211	46.22
	62 m,p-Xylenes	106	7.900	7.900	(1.030)	828056	94.3758	94.37
	63 o-Xylene	106	8.237	8.241	(1.074)	397534	47.8450	47.84
	64 Styrene	104	8.256	8.256	(1.077)	710304	49.0101	49.01
	66 Bromoform	173	8.406	8.406	(1.096)	197925	50.4868	50.48
	67 Isopropylbenzene	105	8.560	8.560	(1.116)	956821	44.8008	44.80
	68 1,1,2,2-Tetrachloroethane	83	8.837	8.837	(0.915)	331151	48.2326	48.23
$	69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	388935	52.7245	52.72
*	70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	408757	50.0000	
	71 1,2,3-Trichloropropane	75	8.863	8.863	(0.917)	262052	48.0990	48.09(M)
	72 trans-1,4-Dichloro-2-butene	53	8.886	8.886	(1.159)	119855	53.1678	53.16
	73 n-Propylbenzene	91	8.908	8.912	(0.922)	1109886	44.9330	44.93
	74 Bromobenzene	156	8.803	8.803	(0.911)	301361	47.1405	47.14
	75 1,3,5-Trimethylbenzene	105	9.062	9.066	(0.938)	826279	44.6531	44.65

76	2-Chlorotoluene	91	8.972	8.972 (0.929)	751134	45.0789	45.07
77	4-Chlorotoluene	91	9.070	9.069 (0.939)	862507	47.1055	47.10

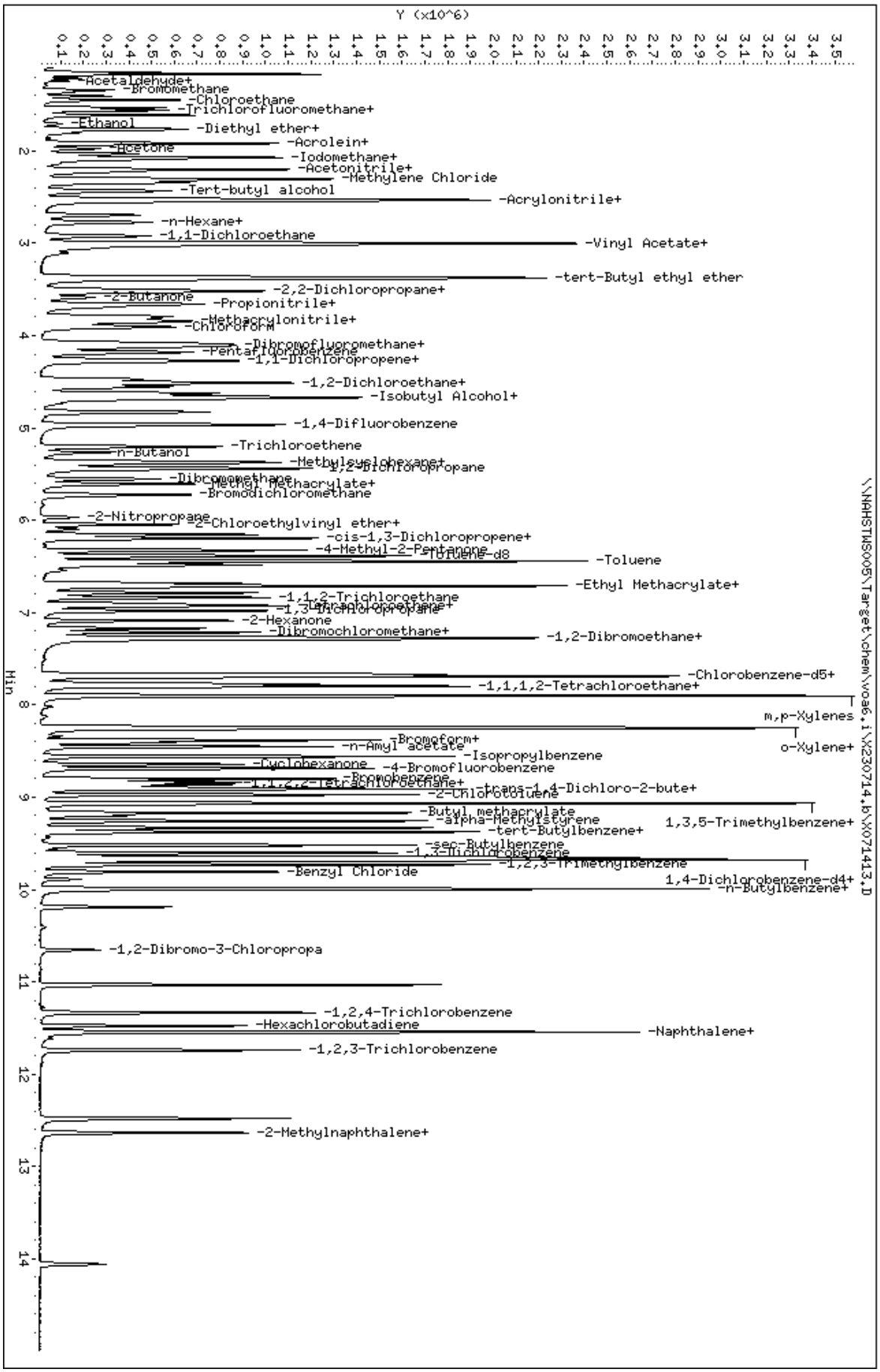
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)	
78	tert-Butylbenzene	119	9.332	9.336	(0.966)	675255	42.5524	42.55	
79	1,2,4-Trimethylbenzene	105	9.377	9.377	(0.971)	830881	44.7762	44.77	
81	sec-Butylbenzene	105	9.519	9.519	(0.985)	905955	42.8308	42.83	
82	p-Isopropyltoluene	119	9.647	9.647	(0.998)	820416	42.4603	42.46	
83	1,3-Dichlorobenzene	146	9.602	9.602	(0.994)	517212	46.4420	46.44	
84	1,4-Dichlorobenzene	146	9.681	9.680	(1.002)	560136	45.8733	45.87	
86	Benzyl Chloride	91	9.808	9.804	(1.279)	615356	48.8480	48.84	
87	n-Butylbenzene	91	9.992	9.992	(1.034)	697021	43.0724	43.07	
88	1,2-Dichlorobenzene	146	9.992	9.992	(1.034)	522905	47.7589	47.75	
89	1,2-Dibromo-3-Chloropropane	155	10.651	10.651	(1.102)	54433	48.2708	48.27	
90	1,2,4-Trichlorobenzene	180	11.334	11.334	(1.173)	326047	43.3575	43.35	
91	Hexachlorobutadiene	225	11.476	11.480	(1.188)	139858	40.8152	40.81	
92	Naphthalene	128	11.540	11.536	(1.194)	838509	45.0509	45.05	
93	1,2,3-Trichlorobenzene	180	11.739	11.738	(1.215)	302822	43.0586	43.05	
146	Methyl acetate	43	2.232	2.228	(0.534)	226459	48.6009	48.60	
138	Freon TF	101	1.917	1.917	(0.459)	164256	50.7362	50.73	
141	Cyclohexane	56	4.121	4.117	(0.987)	392805	43.2834	43.28	
142	Tetrahydrofuran	42	3.848	3.851	(0.921)	129569	96.1946	96.19	
147	Methylcyclohexane	55	5.381	5.381	(1.084)	818352	47.4476	47.44	
135	1,4-Dioxane	88	5.602	5.602	(1.341)	61482	988.216	988.21	
132	n-Butanol	56	5.261	5.261	(1.259)	170908	980.599	980.59	
131	Methyl Acrylate	55	3.690	3.686	(0.883)	366966	51.5629	51.56	
133	Ethyl Acrylate	55	5.381	5.381	(1.288)	818352	47.1623	47.16	
136	n-Hexane	57	2.772	2.768	(0.664)	239027	47.2779	47.27	
139	Diethyl ether	59	1.760	1.760	(0.421)	234998	48.1340	48.13	
148	Tert-butyl alcohol	59	2.434	2.442	(0.583)	626708	948.402	948.40	
149	Isopropyl alcohol	45	2.093	2.101	(0.501)	377497	920.653	920.65	
156	Diisopropyl ether	45	3.004	3.008	(0.719)	1037147	48.0634	48.06	
166	1,2,3-Trimethylbenzene	105	9.729	9.729	(1.007)	913282	48.3344	48.33	
167	Ethanol	45	1.703	1.711	(0.408)	74613	1019.42	1019.41	
172	tert-Butyl formate	59	4.627	4.635	(1.108)	507413	90.7266	90.72	
173	3,3-Dimethyl-1-butanol	57	7.285	7.293	(0.950)	688113	863.240	863.23	
174	tert-Amyl methyl ether	73	4.669	4.668	(1.118)	862678	50.0877	50.08	
175	tert-Butyl ethyl ether	59	3.379	3.379	(0.809)	1050302	47.3858	47.38	
176	tert-Amyl alcohol	59	4.627	4.635	(1.108)	507413	887.155	887.15	
151	4-Methyl-2-pentanol	45	6.712	6.715	(1.352)	1515654	865.514	865.51	
180	1-Methylnaphthalene	142	12.634	12.631	(1.308)	384606			(a)
140	1,3-Butadiene	54	1.167	1.167	(0.280)	301891	44.8739	44.87	
152	Amyl alcohol	42	6.903	6.903	(0.900)	195847	918.818	918.81	
158	Dichlorofluoromethane	67	1.531	1.531	(0.367)	380825	45.1447	45.14	
159	Propylene oxide	43	1.805	1.805	(0.432)	61412	95.6112	95.61	
161	3-Methyl-1-butanol	55	6.903	6.903	(0.900)	186846	1023.91	1023.90	
162	Butyl acrylate	55	8.249	8.248	(1.076)	731306	51.8619	51.86	
163	Butyl methacrylate	41	9.167	9.171	(0.949)	489010	49.9457	49.94	
164	Dicyclopentadiene	66	9.681	9.684	(1.002)	1106669	47.0024	47.00	
182	Epichlorohydrin	57	6.093	6.093	(1.227)	124324	203.690	203.69	
M 94	1,2-Dichloroethylene (total)	96				470923	93.0878	93.08	
M 95	Xylenes (total)	106				1225590	142.221	142.22	
145	alpha-Methylstyrene	118	9.257	9.257	(0.958)	409265	45.8929	45.89	
130	Ethyl Acetate	43	3.660	3.660	(0.876)	382709	49.2142	49.21	
134	Cyclohexanone	55	8.642	8.642	(0.894)	353883	972.476	972.47	
185	Isoprene	39	1.771	1.771	(0.424)	82361	47.7228	47.72	

188 Isopropyl acetate	43	4.680	4.680 (0.943)	1029947	47.8043	47.80
187 n-Amyl acetate	43	8.451	8.451 (1.102)	635386	46.7743	46.77

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
189 n-Butyl acetate	43	7.214	7.210	(0.941)	567096	49.9183	49.91(H)
150 Allyl alcohol	57	2.772	2.768	(0.664)	239027	945.764	945.76
194 Acetaldehyde	44	1.212	1.212	(0.290)	96727	206.571	206.57
195 Methyl Amyl Ketone	43	8.380	8.380	(1.093)	761129	49.1308	49.13
200 Dimethyl Disulfide	94	6.194	6.198	(0.808)	522553	52.2664	52.26
202 Isobutylene	41	1.242	1.242	(0.297)	41486	47.9266	47.92(M)
205 2-Ethylhexyl Acrylate	55	11.547	11.547	(1.195)	553935	53.0575	53.05

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.



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Sample Info: CCV;CCV;2;;ICV
Purge Volume: 5.0
Column phase: DB624

Instrument: voa6.i
Operator: PC
Column diameter: 0.18

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Inj Date : 14-JUL-2023 16:06
InstruID : voa6.i
LabSampID : ICV

1,2,3-Trichloropropane (96-18-4)

BEFORE

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20-Jul-2023
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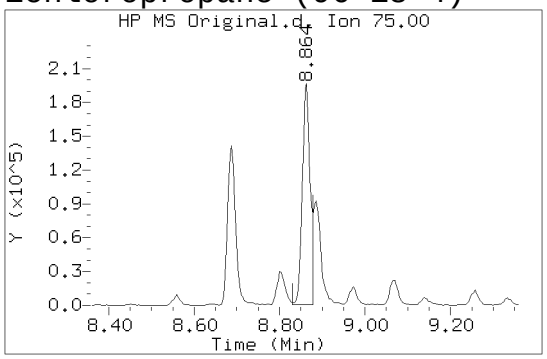

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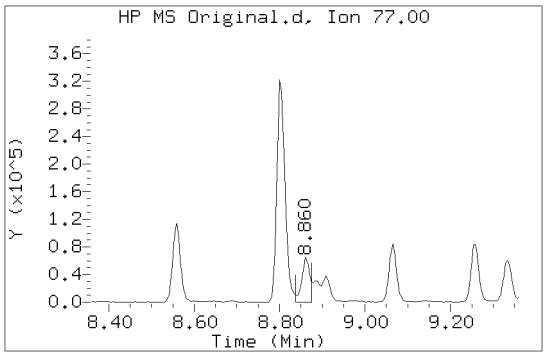

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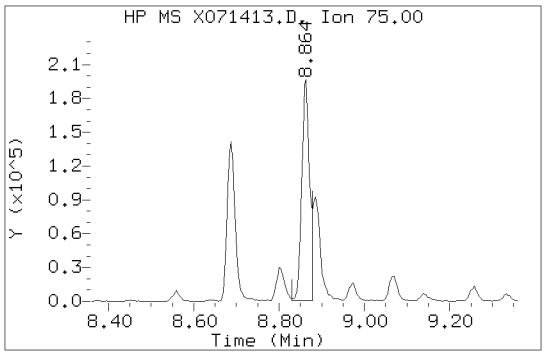

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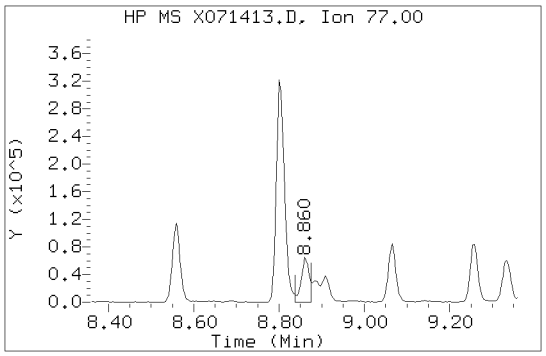

Chloroprene (126-99-8)

BEFORE

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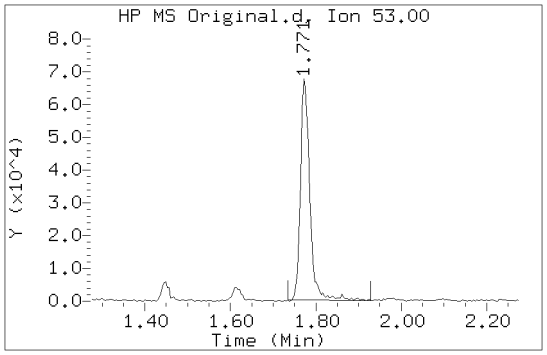

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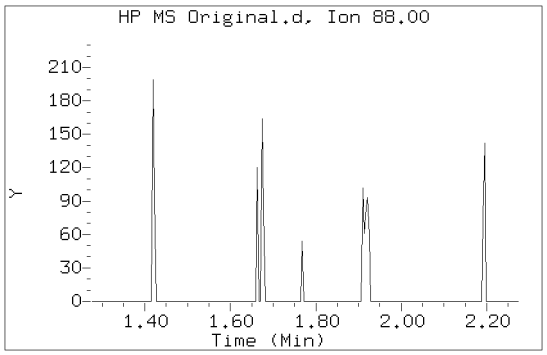

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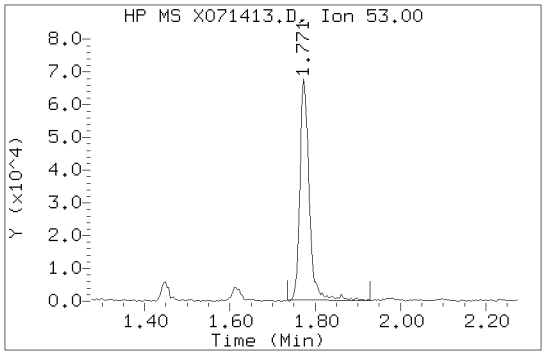

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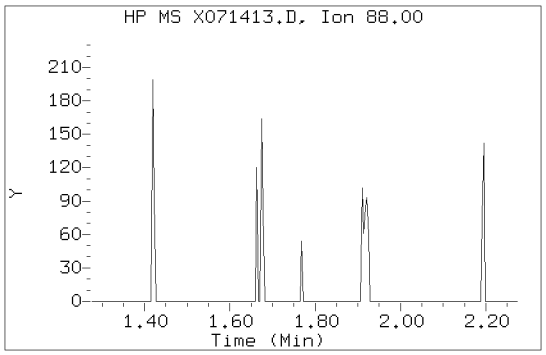

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LabSampID : ICV

Isobutylene (115-11-7)

Reason Code:

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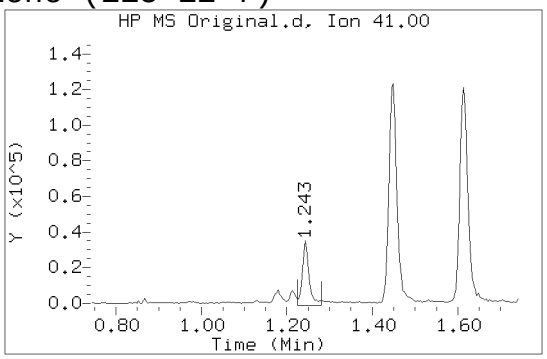

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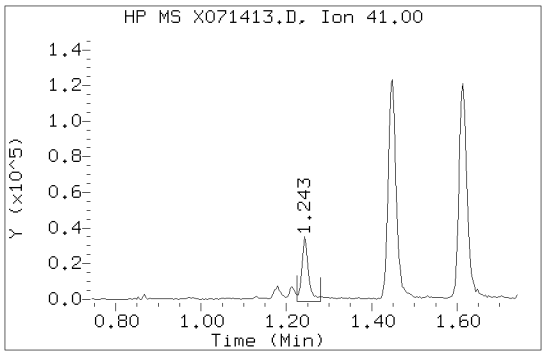

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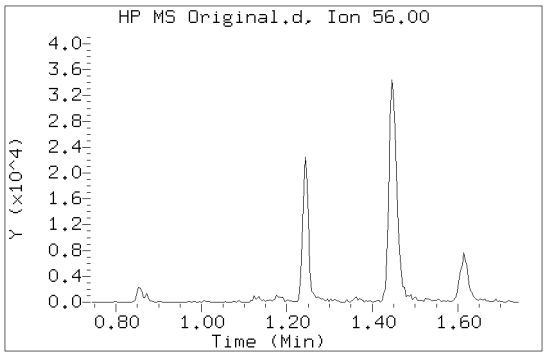

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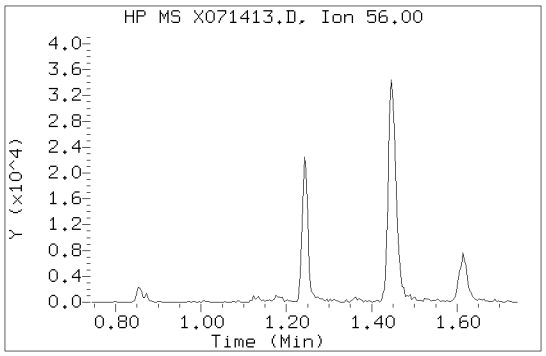

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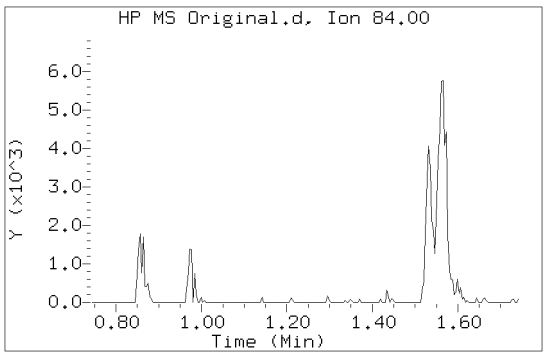

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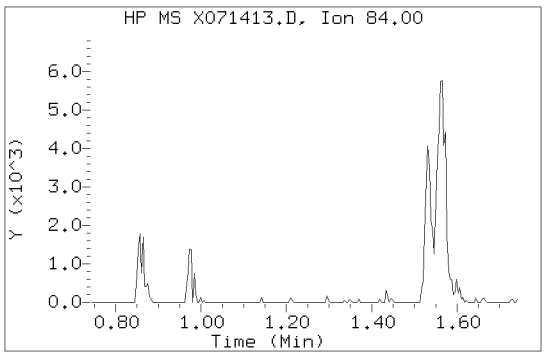
linh
pham



right solutions.
right partner.

Raw Data VOA6 441608

Volatiles by EPA 8260

Workorder

HS23070658

Client

Bhate Environmental Associates, Inc.

Project

LHAAP Site 16

07/25/2023

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230717.b\Y071701.D Page 1
Report Date: 17-Jul-2023 23:04

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230717.b\Y071701.D
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 17-JUL-2023 21:49
Operator : PC Inst ID: voa6.i
Smp Info : BFB;BFB;3;;BFB
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230717.b\bfb.m
Meth Date : 14-Mar-2023 15:45 Linh.Pham Quant Type: ISTD
Cal Date : Cal File:
Als bottle: 32 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: NAHSTW7051

Concentration Formula: Amt * DF * Uf * Vf * Vi * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vf	1.000	Volumetric correction factor
Vi	2.000	Injection Volume
Cpnd Variable		Local Compound Variable

					CONCENTRATIONS ON-COL (ug/L)	CONCENTRATIONS FINAL (ug/l)		
RT	EXP RT	REL RT	MASS	RESPONSE			TARGET RANGE	RATIO
1 bfb							CAS #: 460-00-4	
8.687	8.889	(0.000)	95	242112			0.00- 100.00	100.00
8.687	8.889	(0.000)	50	58328			15.00- 40.00	24.09
8.687	8.889	(0.000)	75	119560			30.00- 60.00	49.38
8.687	8.889	(0.000)	96	18168			5.00- 9.00	7.50
8.687	8.889	(0.000)	173	0	0.0	0.0	0.00- 2.00	0.00
8.687	8.889	(0.000)	174	191680			50.00- 0.00	79.17
8.687	8.889	(0.000)	175	16776			5.00- 9.00	8.75
8.687	8.889	(0.000)	176	189824			95.00- 101.00	99.03
8.687	8.889	(0.000)	177	12662			5.00- 9.00	6.67

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	24.09
75	30.00 - 60.00% of mass 95	49.38
96	5.00 - 9.00% of mass 95	7.50
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	79.17
175	5.00 - 9.00% of mass 174	6.93 (8.75)
176	95.00 - 101.00% of mass 174	78.40 (99.03)
177	5.00 - 9.00% of mass 176	5.23 (6.67)

Data File: Y071701.D
Spectrum: Scan 2159 (8.68)
Location of Maximum: 95.00
Number of points: 118

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	2799	68.00	23392	103.20	165	142.90	1792
37.10	15285	69.10	24232	103.80	986	143.90	263
38.10	11971	70.00	3620	104.90	592	144.90	181
39.10	6965	71.10	611	105.80	1369	145.80	291
40.00	5226	72.10	1006	106.90	1916	146.90	248
41.00	3828	73.00	8651	108.00	107	148.00	686
42.10	4777	74.00	37808	108.80	689	148.70	347
43.10	2800	75.10	119560	109.80	158	149.90	197
44.00	3880	76.10	10448	110.80	151	151.90	179
45.00	3888	77.10	1175	111.70	362	152.70	361
45.90	64	78.00	1157	112.80	394	154.90	1290
47.00	4831	79.00	4552	114.80	211	156.00	55
48.00	2110	79.90	2199	116.00	798	156.90	360
49.00	13079	80.90	6237	116.80	1743	158.80	193
50.00	58328	81.80	1144	117.90	946	160.80	467
51.10	18624	83.10	597	118.90	1286	169.80	66
52.00	938	84.90	119	123.90	179	170.40	285
53.00	379	86.00	904	124.80	51	172.20	706
54.00	669	87.10	8401	125.90	64	174.00	191680
55.00	6654	88.00	11488	126.90	434	175.00	16776
56.10	5094	90.90	1311	127.90	1412	176.00	189824
57.00	9551	92.10	6449	128.90	506	177.00	12662
57.90	607	93.10	8800	130.00	1266	177.80	1090
60.00	2549	94.10	28504	131.10	609	184.80	94
61.00	12419	95.00	242112	135.00	546	185.80	91
62.00	11335	96.00	18168	136.70	422	205.90	171
63.00	8070	97.20	939	139.00	126	234.00	371
64.00	1157	98.00	2438	139.80	193	235.90	89
65.00	95	98.90	186	140.90	2265		
66.90	842	102.80	254	142.10	356		

Data File: \\nahstws005\target\chem\voa6.i\x230717.b\y071701.d Page 1

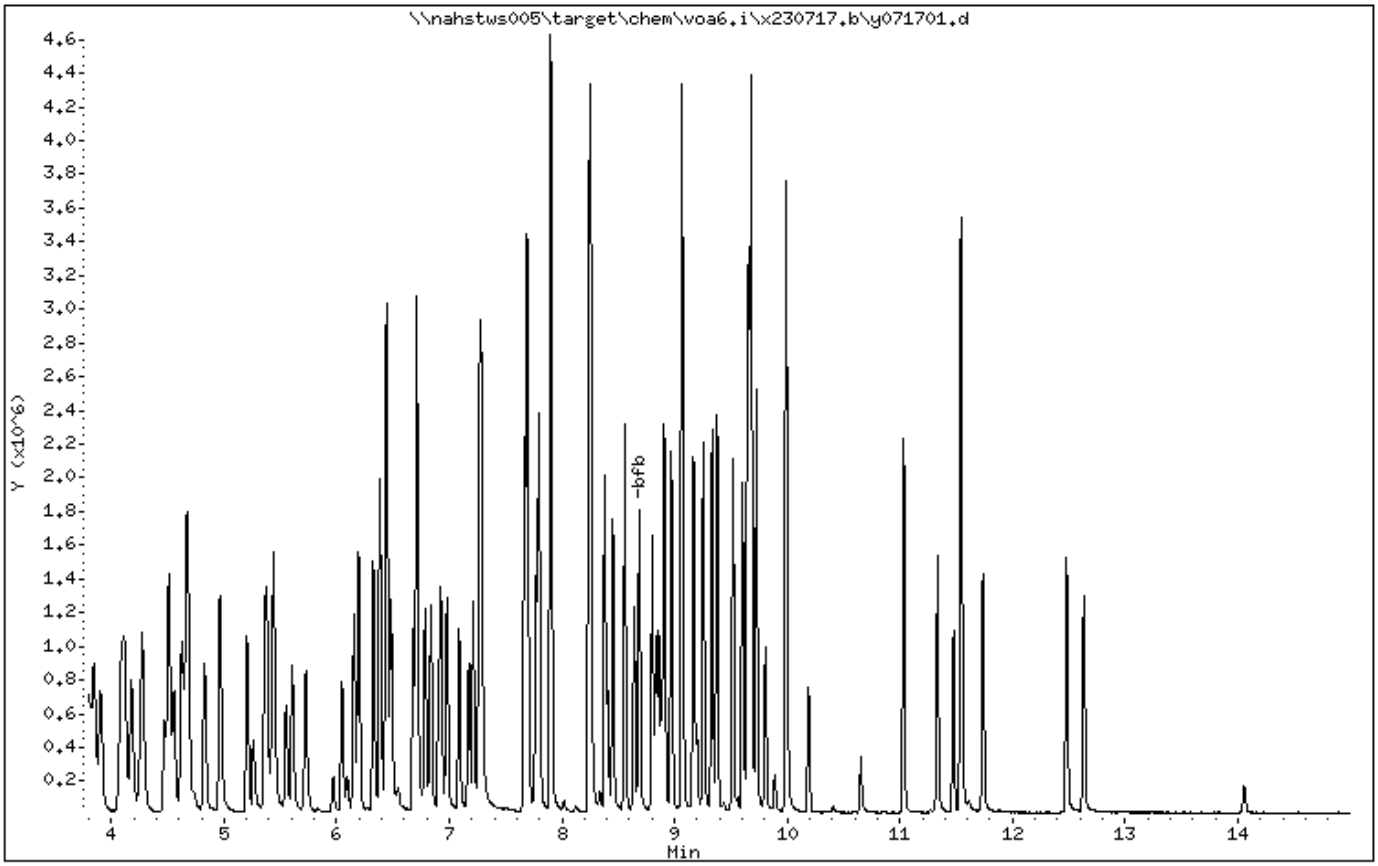
Date : 17-JUL-2023 21:49

Client ID: BFB Instrument: voa6.i

Sample Info: BFB;BFB;3;;BFB

Volume Injected (uL): 2.0 Operator: PC

Column phase: DB624 Column diameter: 0.25



Data File : \\nahstws005\target\chem\voa6.i\x230717.b\y071701.d
Inj Date : 17-JUL-2023 21:49
InstruID : voa6.i
LabSampID : BFB

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230717.b\Y071703.D Page 1
Report Date: 20-Jul-2023 15:02

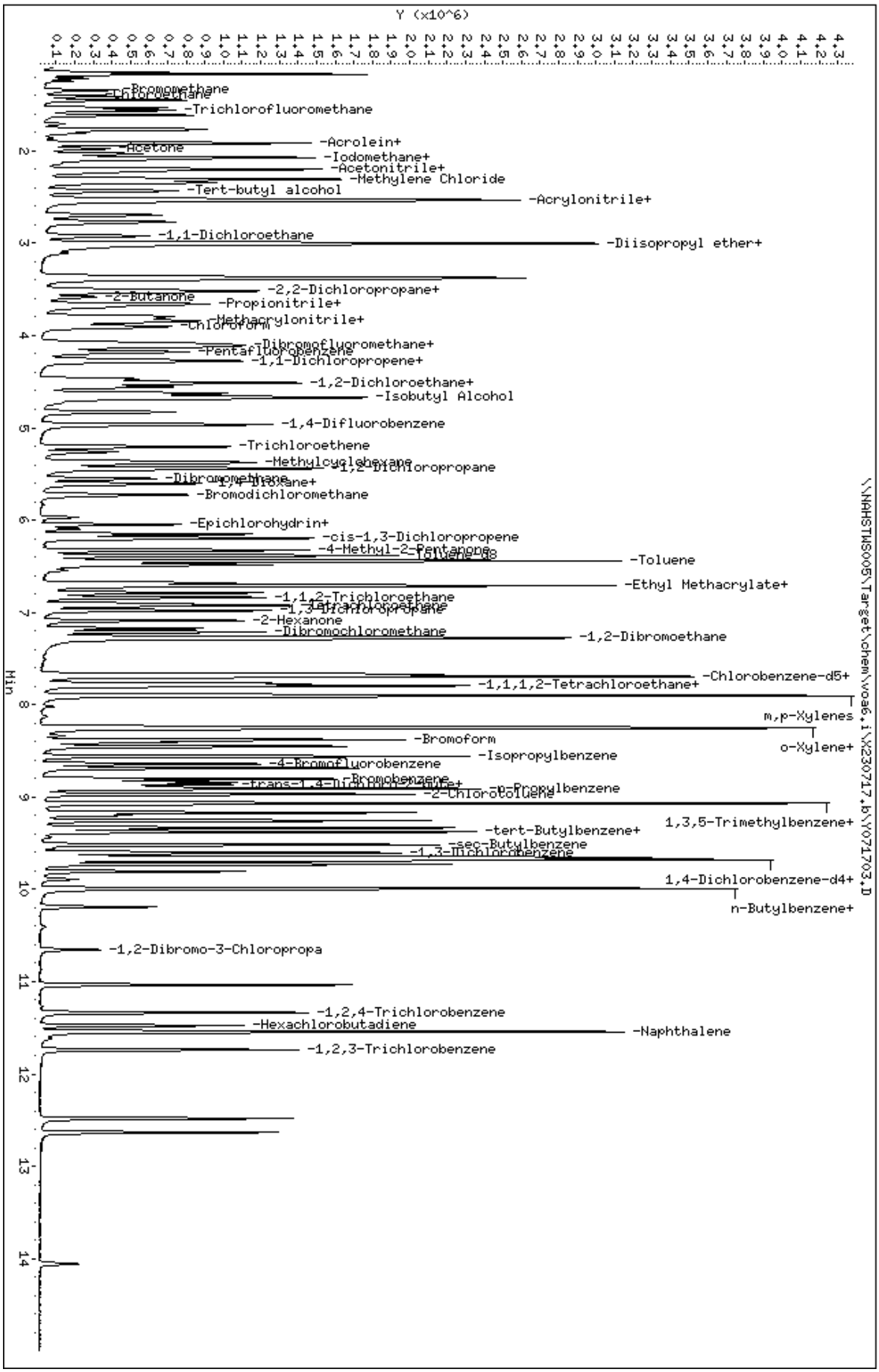
ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230717.b\Y071703.D
Lab Smp Id: CCV Client Smp ID: CCV
Inj Date : 17-JUL-2023 22:30
Operator : PC Inst ID: voa6.i
Smp Info : CCV;CCV;2;;
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230717.b\8260W.m
Meth Date : 20-Jul-2023 15:02 voa6.i Quant Type: ISTD
Cal Date : 14-JUL-2023 14:24 Cal File: X071408.D
Als bottle: 33 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 0474-dod.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1 Pentafluorobenzene	168	4.177	4.177	(1.000)	600874	50.0000	
$ 30 Dibromofluoromethane	113	4.099	4.099	(0.981)	290020	50.0000	52.70
$ 35 1,2-Dichloroethane-d4	65	4.470	4.470	(1.070)	351519	50.0000	51.05
* 36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	980784	50.0000	
* 47 Chlorobenzene-d5	117	7.667	7.667	(1.000)	907491	50.0000	
$ 48 Toluene-d8	98	6.385	6.385	(0.833)	1070967	50.0000	45.83
$ 69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	454478	50.0000	50.30
* 70 1,4-Dichlorobenzene-d4	152	9.658	9.658	(1.000)	480551	50.0000	
5 Vinyl Chloride	62	1.145	1.145	(0.274)	423998	50.0000	54.52
11 1,1-Dichloroethene	96	1.917	1.917	(0.459)	230999	50.0000	52.47
17 Methylene Chloride	84	2.303	2.303	(0.551)	292354	50.0000	56.45
27 cis-1,2-Dichloroethene	96	3.529	3.529	(0.845)	328539	50.0000	50.64
33 1,2-Dichloroethane	62	4.556	4.556	(0.918)	518861	50.0000	48.05
38 Trichloroethene	130	5.205	5.205	(1.048)	328395	50.0000	49.48
53 1,1,2-Trichloroethane	83	6.839	6.839	(0.892)	256806	50.0000	49.55
20 trans-1,2-Dichloroethene	96	2.528	2.528	(0.605)	265628	50.0000	52.16



Data File: \\NAHSTMS005\Target\chem\voa6.i\X230717.b\Y071703.D
Date : 17-JUL-2023 22:30
Client ID: CCV
Sample Info: CCV;CCV;2;;
Purge Volume: 5.0
Column phase: DB624

Instrument: voa6.i
Operator: PC
Column diameter: 0.18

Data File : \\NAHSTWS005\Target\chem\voa6.i\X230717.b\Y071703.D
Inj Date : 17-JUL-2023 22:30
InstruID : voa6.i
LabSampID : CCV

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230717.b\Y071704.D Page 1
Report Date: 20-Jul-2023 15:02

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230717.b\Y071704.D
Lab Smp Id: CCB Client Smp ID: CCB
Inj Date : 17-JUL-2023 22:50
Operator : PC Inst ID: voa6.i
Smp Info : CCB;CCB;;;
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230717.b\8260W.m
Meth Date : 20-Jul-2023 15:02 voa6.i Quant Type: ISTD
Cal Date : 14-JUL-2023 14:24 Cal File: X071408.D
Als bottle: 34
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 0474-dod.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.181	4.177	(1.000)	640922	50.0000	
$ 30 Dibromofluoromethane	113	4.099	4.099	(0.980)	306446	52.2020	52.20
$ 35 1,2-Dichloroethane-d4	65	4.474	4.470	(1.070)	377048	51.3452	51.34
* 36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	965381	50.0000	
* 47 Chlorobenzene-d5	117	7.667	7.667	(1.000)	842082	50.0000	
$ 48 Toluene-d8	98	6.385	6.385	(0.833)	1137179	52.4504	52.45
$ 69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	397677	47.4085	47.40
* 70 1,4-Dichlorobenzene-d4	152	9.662	9.658	(1.000)	425928	50.0000	

01321005

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230717.b\Y071704.D

Page 1

Date : 17-JUL-2023 22:50

Client ID: CCB

Instrument: voa6.i

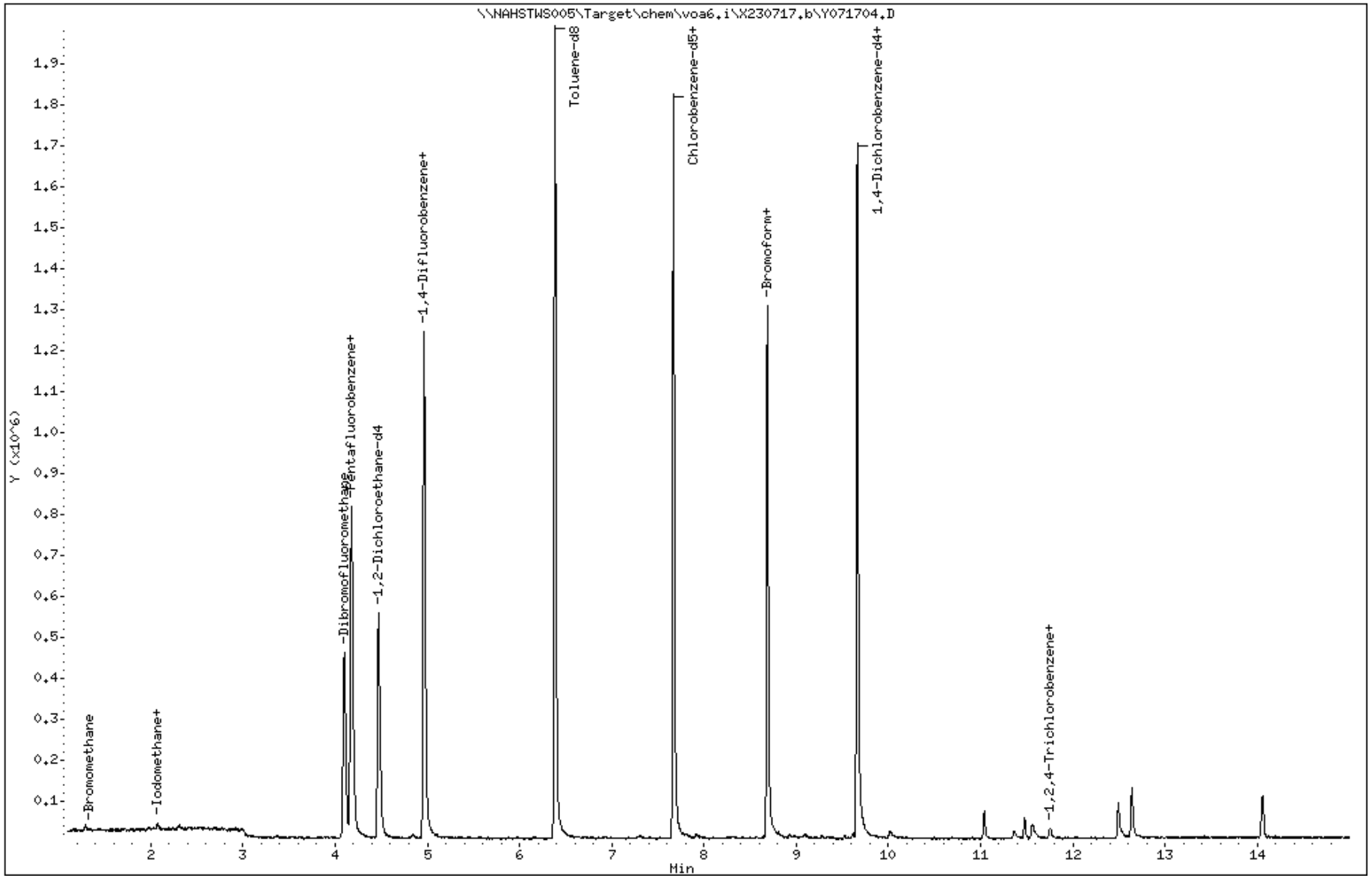
Sample Info: CCB;CCB;;;

Purge Volume: 5.0

Operator: PC

Column phase: DB624

Column diameter: 0.18



Data File : \\NAHSTWS005\Target\chem\voa6.i\X230717.b\Y071704.D
Inj Date : 17-JUL-2023 22:50
InstruID : voa6.i
LabSampID : CCB

NO MANUAL INTEGRATIONS

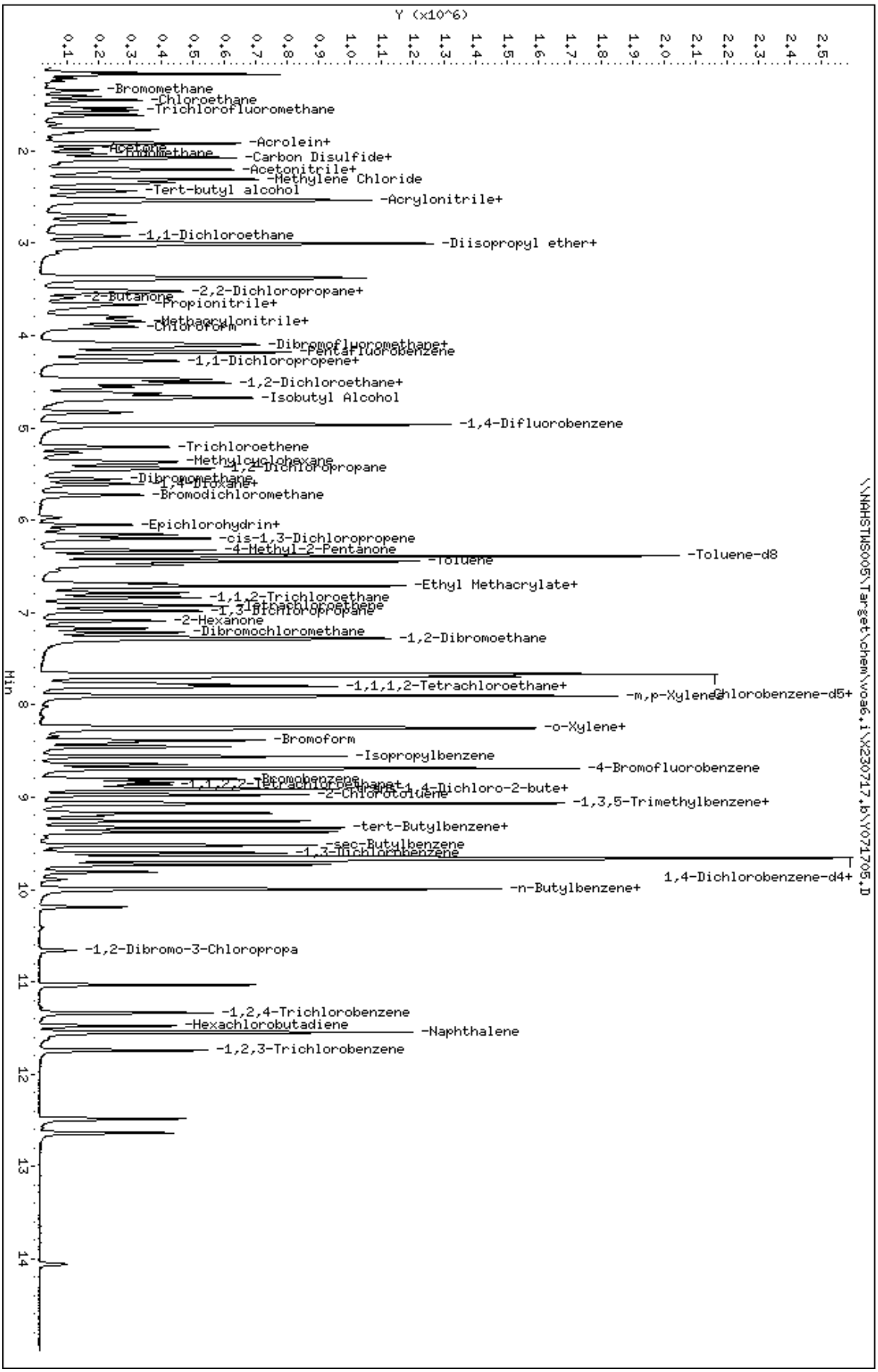
ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230717.b\Y071705.D
Lab Smp Id: VLCSW-230717 Client Smp ID: VLCSW-230717
Inj Date : 17-JUL-2023 23:10
Operator : PC Inst ID: voa6.i
Smp Info : VLCSW-230717;VLCSW-230717;3;;LCS
Misc Info : V6;WATER;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\voa6.i\X230717.b\8260W.m
Meth Date : 20-Jul-2023 15:02 voa6.i Quant Type: ISTD
Cal Date : 14-JUL-2023 14:24 Cal File: X071408.D
Als bottle: 35 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 0474-dod.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.177	4.177	(1.000)	610210	50.0000	
$ 30 Dibromofluoromethane	113	4.099	4.099	(0.981)	302312	54.1173	54.11
$ 35 1,2-Dichloroethane-d4	65	4.470	4.470	(1.070)	370027	52.9444	52.94
* 36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	1016770	50.0000	
* 47 Chlorobenzene-d5	117	7.667	7.667	(1.000)	935510	50.0000	
$ 48 Toluene-d8	98	6.385	6.385	(0.833)	1125980	46.7473	46.74
$ 69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	475574	51.0656	51.06
* 70 1,4-Dichlorobenzene-d4	152	9.658	9.658	(1.000)	490550	50.0000	
5 Vinyl Chloride	62	1.145	1.145	(0.274)	184249	23.3333	23.33
11 1,1-Dichloroethene	96	1.917	1.917	(0.459)	100301	22.4364	22.43
17 Methylene Chloride	84	2.307	2.303	(0.552)	127611	23.4623	23.46
27 cis-1,2-Dichloroethene	96	3.525	3.529	(0.844)	135551	20.5771	20.57
33 1,2-Dichloroethane	62	4.560	4.556	(0.918)	215711	19.2726	19.27
38 Trichloroethene	130	5.205	5.205	(1.048)	131867	19.1690	19.16
53 1,1,2-Trichloroethane	83	6.839	6.839	(0.892)	105162	19.6856	19.68
20 trans-1,2-Dichloroethene	96	2.528	2.528	(0.605)	113681	21.9841	21.98



Data File: \\NAHSTMS005\Target\chem\voa6.i\X230717.b\Y071705.D
Date : 17-JUL-2023 23:10
Client ID: VLCSW-230717
Sample Info: VLCSW-230717;VLCSW-230717;3;;LCS
Purge Volume: 5.0
Column phase: DB624

Instrument: voa6.i
Operator: PC
Column diameter: 0.18

Data File : \\NAHSTWS005\Target\chem\voa6.i\X230717.b\Y071705.D
Inj Date : 17-JUL-2023 23:10
InstruID : voa6.i
LabSampID : VLCSW-230717

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230717.b\Y071707.D Page 1
Report Date: 20-Jul-2023 15:02

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230717.b\Y071707.D
Lab Smp Id: VBLKW-230717 Client Smp ID: VBLKW-230717
Inj Date : 17-JUL-2023 23:51
Operator : PC Inst ID: voa6.i
Smp Info : VBLKW-230717;VBLKW-230717;3;;BLANK
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230717.b\8260W.m
Meth Date : 20-Jul-2023 15:02 voa6.i Quant Type: ISTD
Cal Date : 14-JUL-2023 14:24 Cal File: X071408.D
Als bottle: 37 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 0474-dod.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.181	4.177	(1.000)	645460	50.0000	
$ 30 Dibromofluoromethane	113	4.099	4.099	(0.980)	312819	52.9234	52.92
$ 35 1,2-Dichloroethane-d4	65	4.470	4.470	(1.069)	370486	50.0817	50.08
* 36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	990257	50.0000	
* 47 Chlorobenzene-d5	117	7.667	7.667	(1.000)	874420	50.0000	
$ 48 Toluene-d8	98	6.385	6.385	(0.833)	1153108	51.2182	51.21
$ 69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	411838	47.2799	47.27
* 70 1,4-Dichlorobenzene-d4	152	9.662	9.658	(1.000)	442776	50.0000	

01321011

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230717.b\Y071707.D

Date : 17-JUL-2023 23:51

Client ID: VBLKW-230717

Instrument: voa6.i

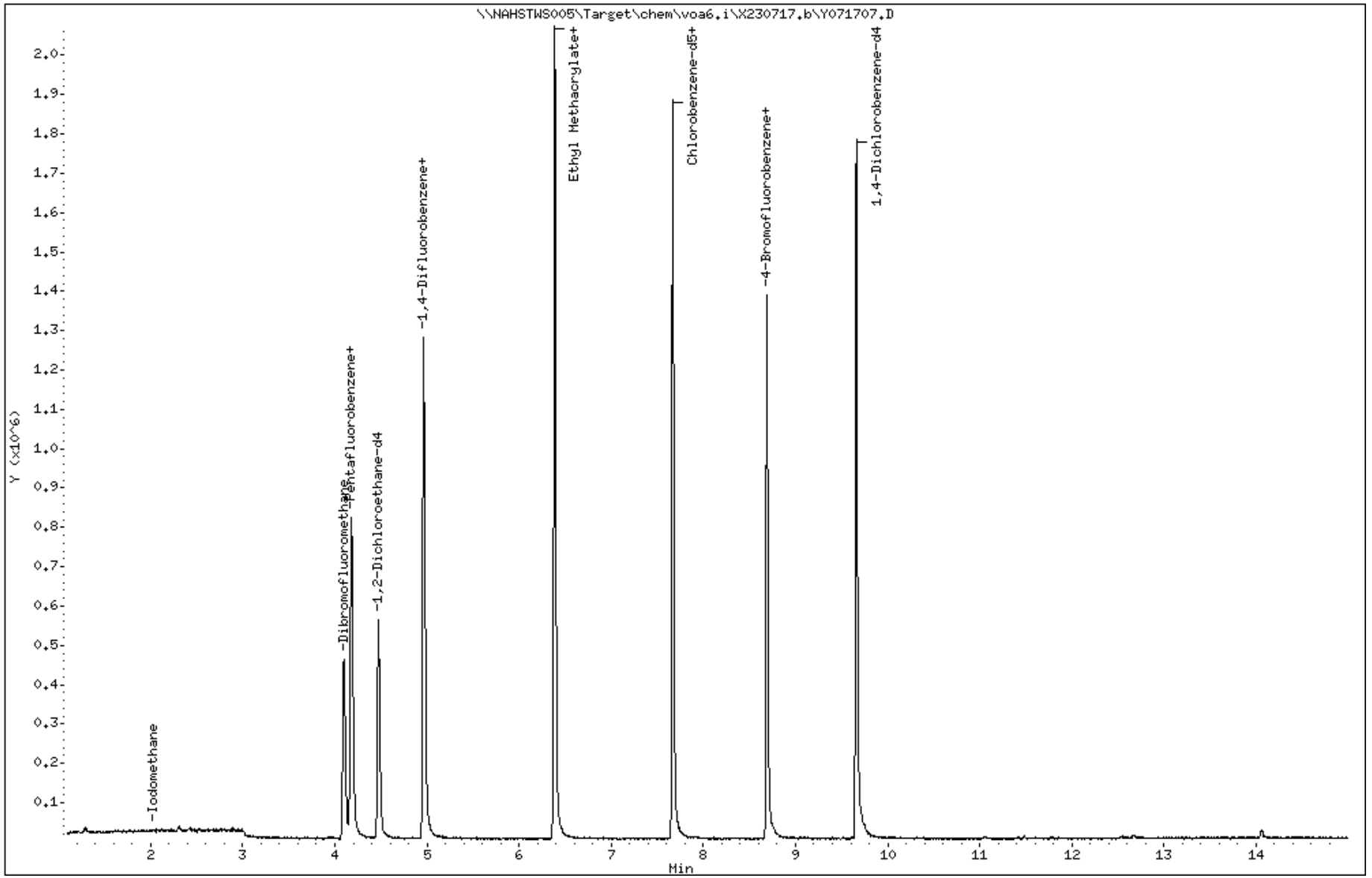
Sample Info: VBLKW-230717;VBLKW-230717;3;;BLANK

Purge Volume: 5.0

Operator: PC

Column phase: DB624

Column diameter: 0.18



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Inj Date : 17-JUL-2023 23:51
InstruID : voa6.i
LabSampID : VBLKW-230717

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230717.b\Y071712.D Page 1
Report Date: 20-Jul-2023 15:03

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230717.b\Y071712.D
Lab Smp Id: HS23070546-03MS Client Smp ID: HS23070546-03MS
Inj Date : 18-JUL-2023 01:34
Operator : PC Inst ID: voa6.i
Smp Info : HS23070546-03MS;HS23070546-03MS;3;;MS
Misc Info : V6;WATER;0;1000;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230717.b\8260W.m
Meth Date : 20-Jul-2023 15:02 voa6.i Quant Type: ISTD
Cal Date : 14-JUL-2023 14:24 Cal File: X071408.D
Als bottle: 42 QC Sample: MS
Dil Factor: 1000.00000
Integrator: HP RTE Compound Sublist: 0474-dod.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1000.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.178	4.177	(1.000)	623956	50.0000	
$ 30 Dibromofluoromethane	113	4.095	4.099	(0.980)	311871	54.6053	54.60
$ 35 1,2-Dichloroethane-d4	65	4.470	4.470	(1.070)	381021	53.3207	53.32
* 36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	974494	50.0000	
* 47 Chlorobenzene-d5	117	7.668	7.667	(1.000)	857955	50.0000	
$ 48 Toluene-d8	98	6.385	6.385	(0.833)	1125485	50.9506	50.95
$ 69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	408607	47.8140	47.81
* 70 1,4-Dichlorobenzene-d4	152	9.662	9.658	(1.000)	430640	50.0000	
5 Vinyl Chloride	62	1.145	1.145	(0.274)	216445	26.8067	26806.74
11 1,1-Dichloroethene	96	1.917	1.917	(0.459)	115346	25.2334	25233.42
17 Methylene Chloride	84	2.307	2.303	(0.552)	134842	24.2927	24292.71
27 cis-1,2-Dichloroethene	96	3.525	3.529	(0.844)	437820	64.9983	64998.26
33 1,2-Dichloroethane	62	4.556	4.556	(0.918)	231615	21.5913	21591.25
38 Trichloroethene	130	5.205	5.205	(1.048)	588870	89.3152	89315.20
53 1,1,2-Trichloroethane	83	6.839	6.839	(0.892)	113274	23.1209	23120.87
20 trans-1,2-Dichloroethene	96	2.532	2.528	(0.606)	124117	23.4735	23473.47

01321014

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230717.b\Y071712.D

Date : 18-JUL-2023 01:34

Client ID: HS23070546-03MS

Instrument: voa6.i

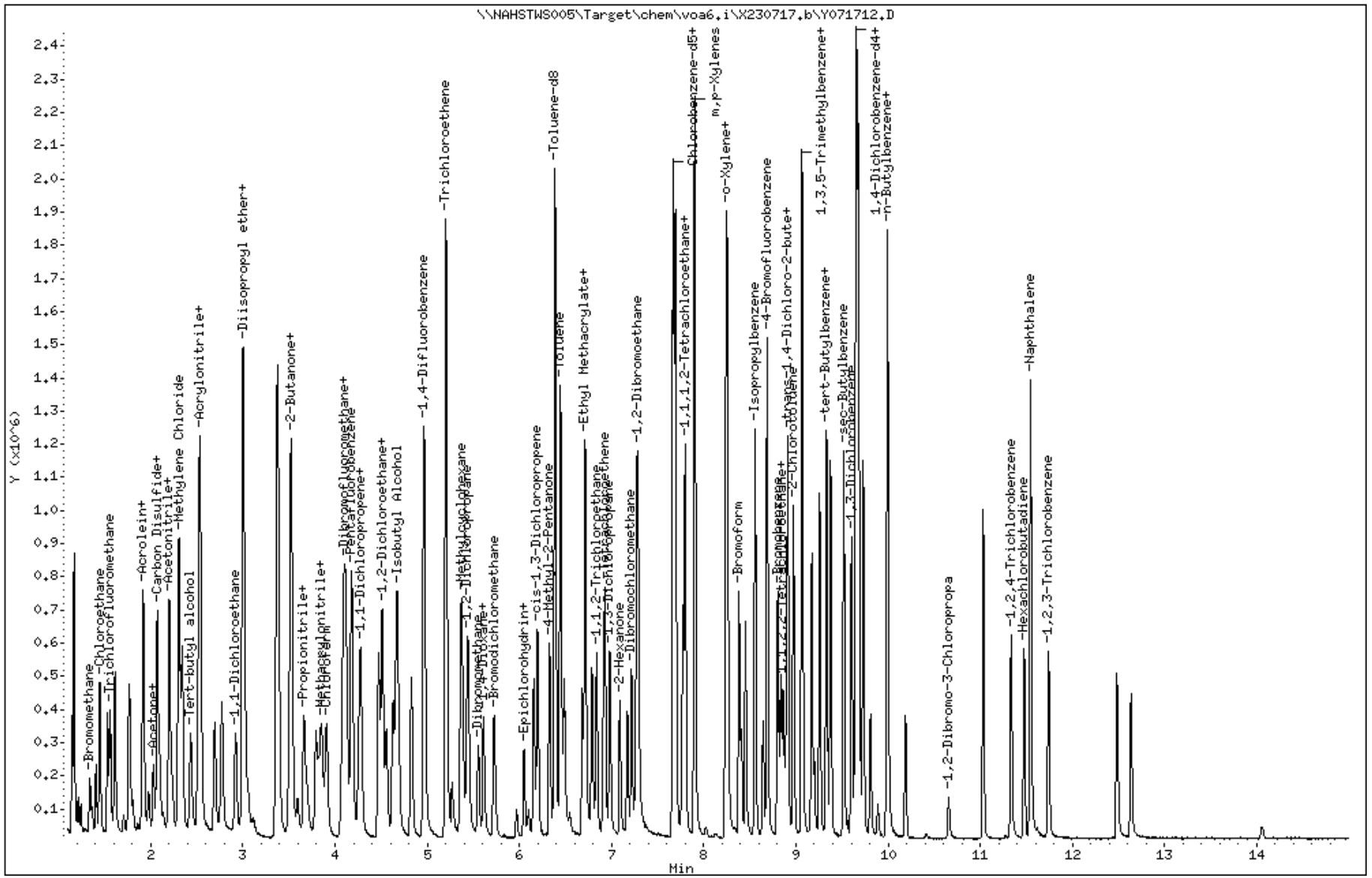
Sample Info: HS23070546-03MS;HS23070546-03MS;3;;MS

Purge Volume: 5.0

Operator: PC

Column phase: DB624

Column diameter: 0.18



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Inj Date : 18-JUL-2023 01:34
InstruID : voa6.i
LabSampID : HS23070546-03MS

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230717.b\Y071713.D Page 1
Report Date: 20-Jul-2023 15:03

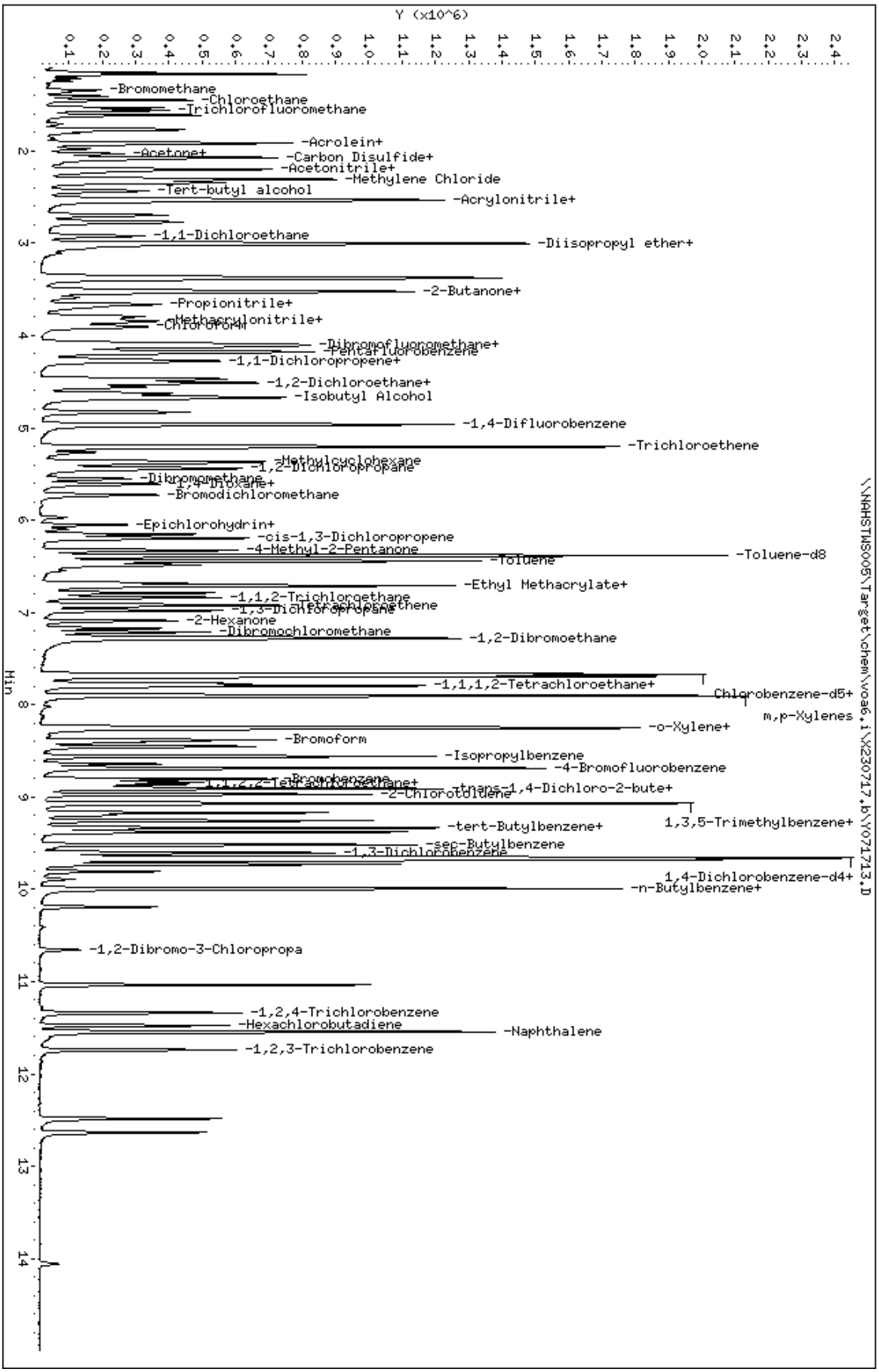
ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230717.b\Y071713.D
Lab Smp Id: HS23070546-03MSD Client Smp ID: HS23070546-03MSD
Inj Date : 18-JUL-2023 01:54
Operator : PC Inst ID: voa6.i
Smp Info : HS23070546-03MSD;HS23070546-03MSD;3;;MSD
Misc Info : V6;WATER;0;1000;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230717.b\8260W.m
Meth Date : 20-Jul-2023 15:02 voa6.i Quant Type: ISTD
Cal Date : 14-JUL-2023 14:24 Cal File: X071408.D
Als bottle: 42 QC Sample: MSD
Dil Factor: 1000.00000
Integrator: HP RTE Compound Sublist: 0474-dod.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1000.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.181	4.177	(1.000)	629996	50.0000	
$ 30 Dibromofluoromethane	113	4.099	4.099	(0.980)	312275	54.1455	54.14
$ 35 1,2-Dichloroethane-d4	65	4.474	4.470	(1.070)	380020	52.6632	52.66
* 36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	985284	50.0000	
* 47 Chlorobenzene-d5	117	7.668	7.667	(1.000)	849001	50.0000	
$ 48 Toluene-d8	98	6.385	6.385	(0.833)	1142656	52.2735	52.27
$ 69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	413302	48.8829	48.88
* 70 1,4-Dichlorobenzene-d4	152	9.662	9.658	(1.000)	442985	50.0000	
5 Vinyl Chloride	62	1.145	1.145	(0.274)	203244	24.9305	24930.46
11 1,1-Dichloroethene	96	1.917	1.917	(0.459)	117765	25.5156	25515.61
17 Methylene Chloride	84	2.303	2.303	(0.551)	136281	24.3180	24317.96
27 cis-1,2-Dichloroethene	96	3.529	3.529	(0.844)	407813	59.9630	59963.00
33 1,2-Dichloroethane	62	4.556	4.556	(0.918)	230054	21.2109	21210.87
38 Trichloroethene	130	5.205	5.205	(1.048)	560997	84.1558	84155.83
53 1,1,2-Trichloroethane	83	6.835	6.839	(0.891)	115724	23.8701	23870.07
20 trans-1,2-Dichloroethene	96	2.532	2.528	(0.606)	126013	23.6036	23603.56



Data File: \\NAHSTWS005\Target\chem\voa6_i\X230717_b\Y071713_D
Date : 18-JUL-2023 01:54
Client ID: HS23070546-03MSD
Sample Info: HS23070546-03MSD;HS23070546-03MSD;3;;MSD
Purge Volume: 5.0
Column phase: DB624

Instrument: voa6_i
Operator: PC
Column diameter: 0.18

Data File : \\NAHSTWS005\Target\chem\voa6.i\X230717.b\Y071713.D
Inj Date : 18-JUL-2023 01:54
InstruID : voa6.i
LabSampID : HS23070546-03MSD

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230717.b\Y071721.D Page 1
Report Date: 20-Jul-2023 15:03

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230717.b\Y071721.D
Lab Smp Id: HS23070658-01 Client Smp ID: HS23070658-01
Inj Date : 18-JUL-2023 04:39
Operator : PC Inst ID: voa6.i
Smp Info : HS23070658-01;HS23070658-01;;;
Misc Info : V6;WATER;0;5;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230717.b\8260W.m
Meth Date : 20-Jul-2023 15:02 voa6.i Quant Type: ISTD
Cal Date : 14-JUL-2023 14:24 Cal File: X071408.D
Als bottle: 50
Dil Factor: 5.00000
Integrator: HP RTE Compound Sublist: 0474-dod.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	5.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.178	4.177	(1.000)	631050	50.0000	
$ 30 Dibromofluoromethane	113	4.103	4.099	(0.982)	306535	53.0462	53.04
$ 35 1,2-Dichloroethane-d4	65	4.474	4.470	(1.071)	383160	53.0138	53.01
* 36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	964290	50.0000	
* 47 Chlorobenzene-d5	117	7.668	7.667	(1.000)	830860	50.0000	
$ 48 Toluene-d8	98	6.385	6.385	(0.833)	1104126	51.6137	51.61
$ 69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	390786	47.2145	47.21
* 70 1,4-Dichlorobenzene-d4	152	9.662	9.658	(1.000)	422400	50.0000	
5 Vinyl Chloride	62	1.145	1.145	(0.274)	259565	31.7858	158.92
11 1,1-Dichloroethene	96	1.917	1.917	(0.459)	8555	1.85048	9.25(a)
27 cis-1,2-Dichloroethene	96	3.525	3.529	(0.844)	1037695	152.323	761.61
33 1,2-Dichloroethane	62	4.567	4.556	(0.920)	11064	1.04230	5.21(a)
38 Trichloroethene	130	5.205	5.205	(1.048)	2919487	447.491	2237.45(A)

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount

exceeded maximum amount.

01321021

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230717.b\Y071721.D

Date : 18-JUL-2023 04:39

Client ID: HS23070658-01

Instrument: voa6.i

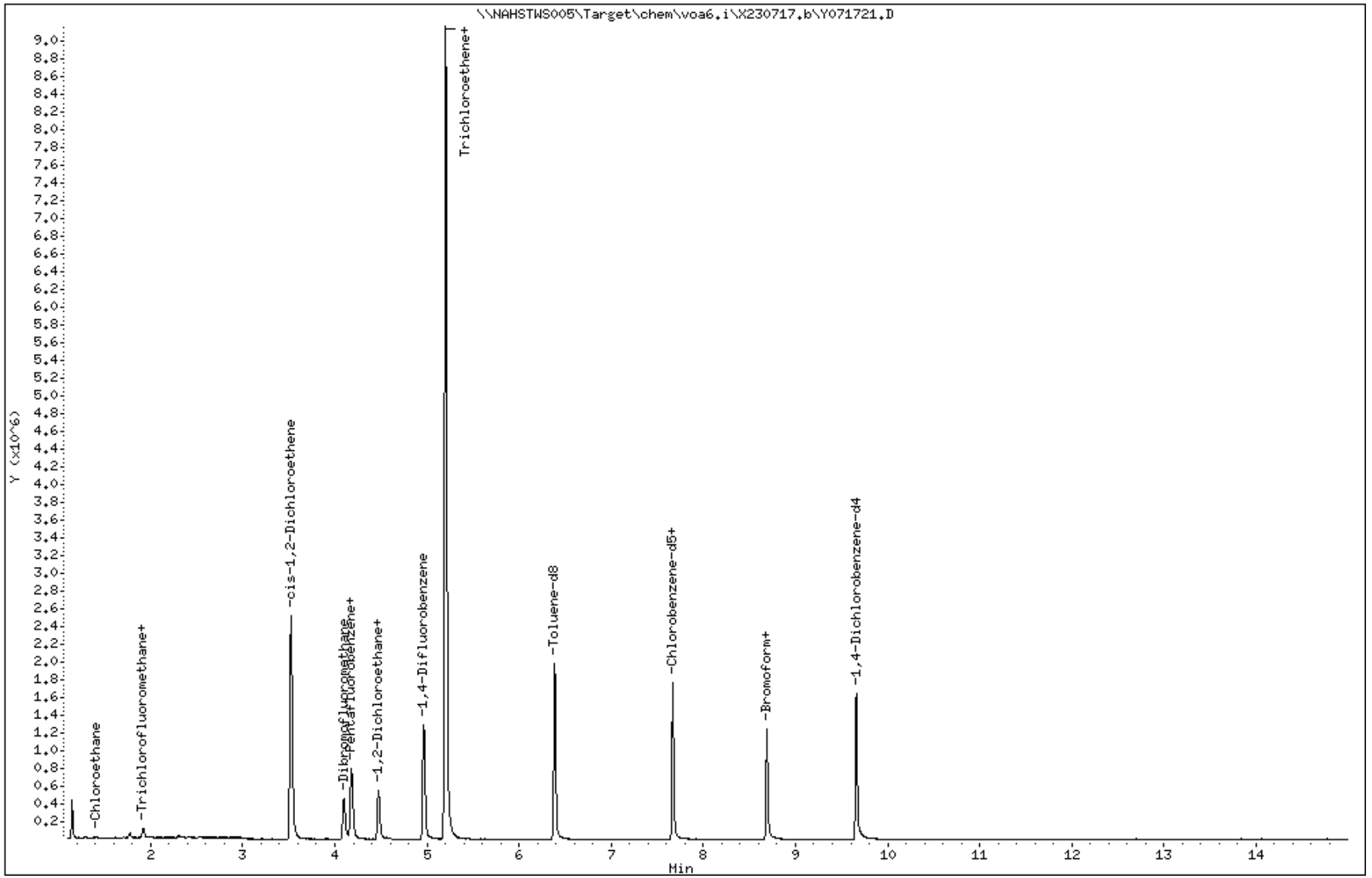
Sample Info: HS23070658-01;HS23070658-01;;;

Purge Volume: 5.0

Operator: PC

Column phase: DB624

Column diameter: 0.18



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230717.b\Y071721.D

Date : 18-JUL-2023 04:39

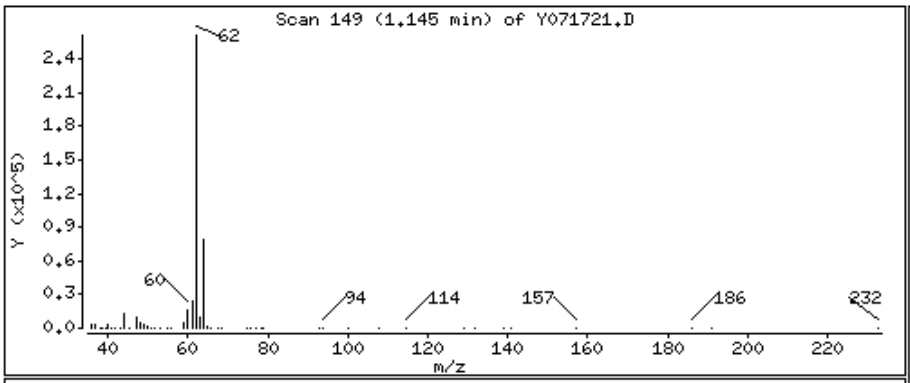
Client ID: HS23070658-01 Instrument: voa6.i

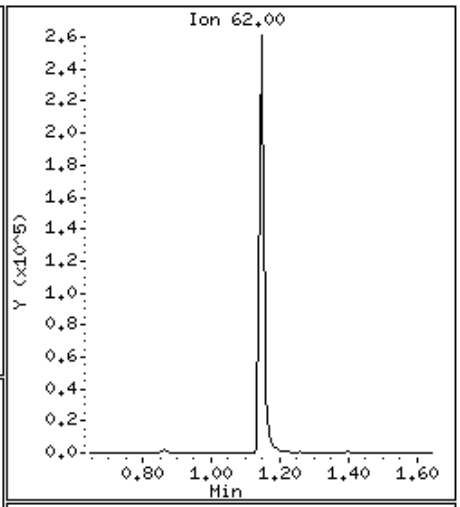
Sample Info: HS23070658-01;HS23070658-01;;;

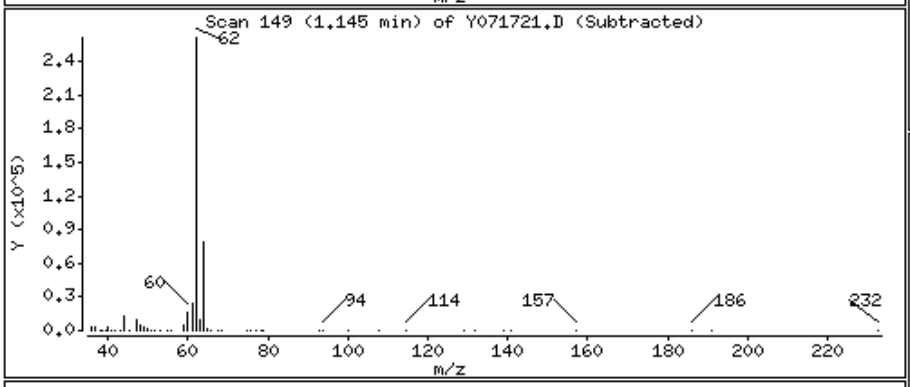
Purge Volume: 5.0 Operator: PC

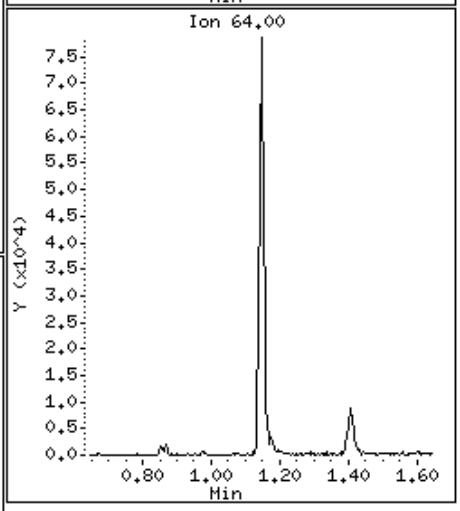
Column phase: DB624 Column diameter: 0.18

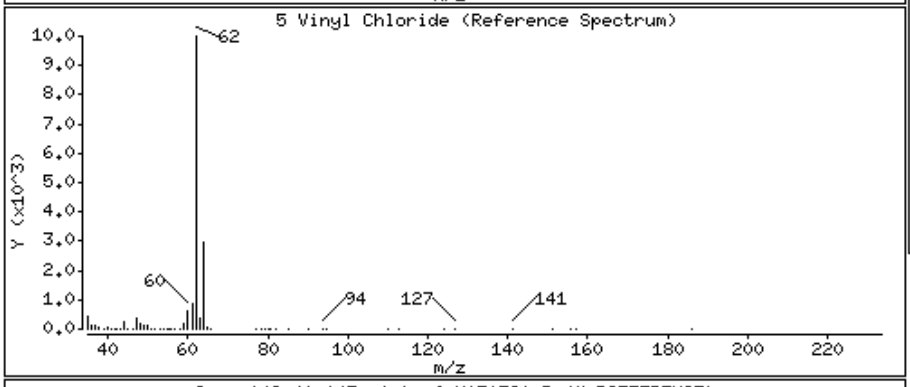
5 Vinyl Chloride Concentration: 158.92 ug/l

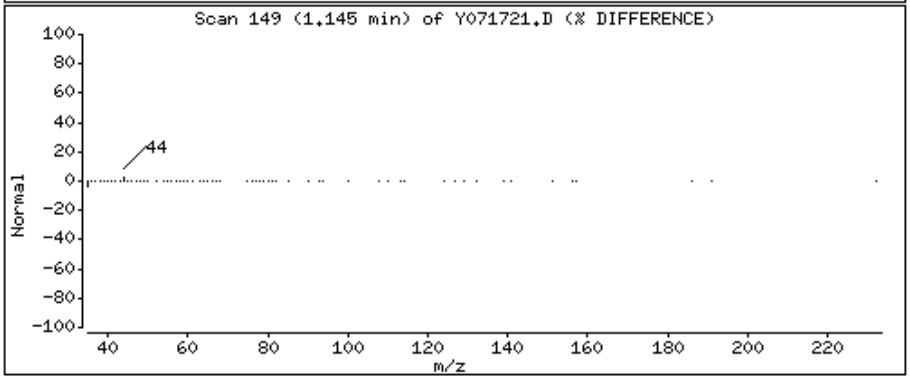












Data File: \\NAHSTWS005\Target\chem\voa6.i\X230717.b\Y071721.D

Date : 18-JUL-2023 04:39

Client ID: HS23070658-01

Instrument: voa6.i

Sample Info: HS23070658-01;HS23070658-01;;;

Purge Volume: 5.0

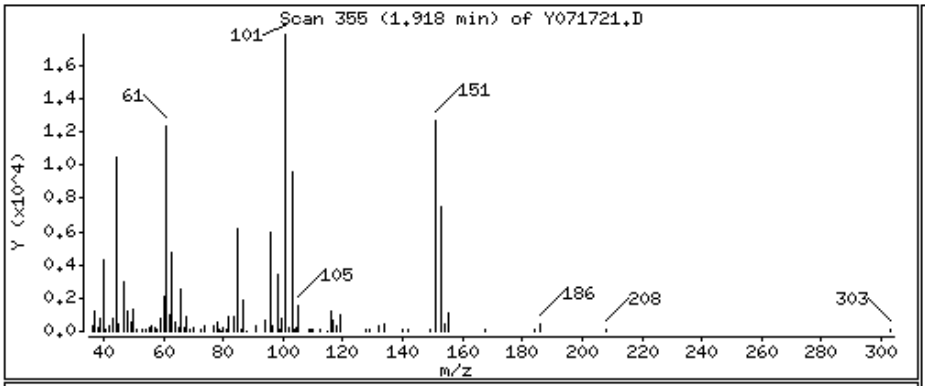
Operator: PC

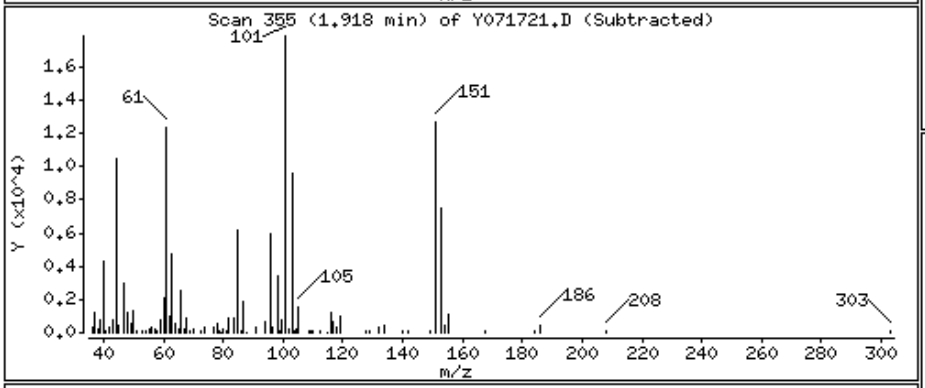
Column phase: DB624

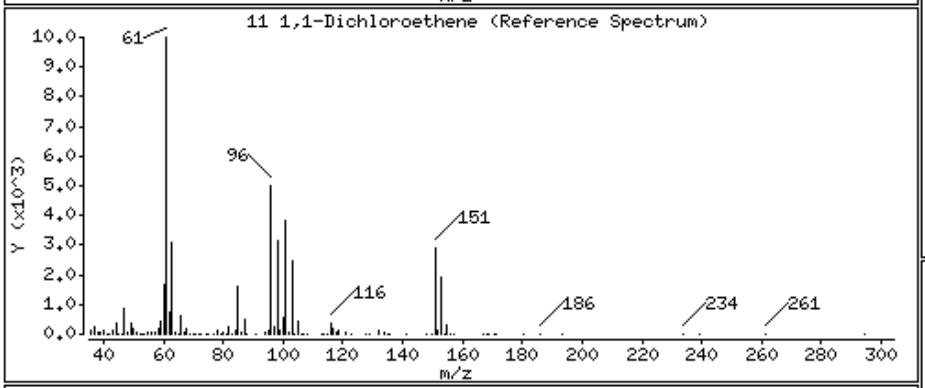
Column diameter: 0.18

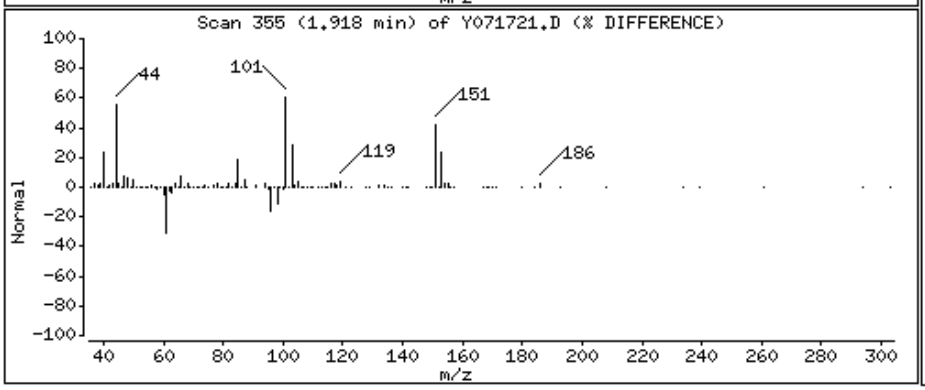
11 1,1-Dichloroethene

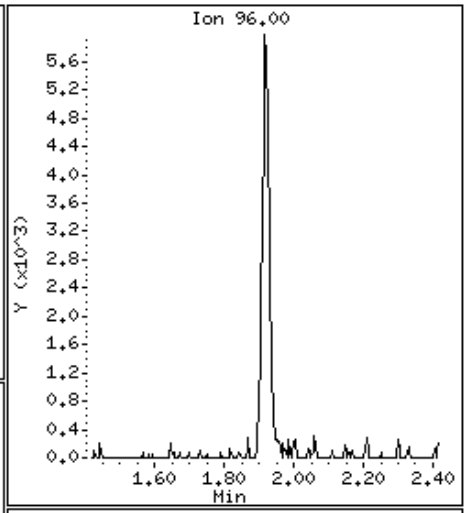
Concentration: 9.25 ug/l

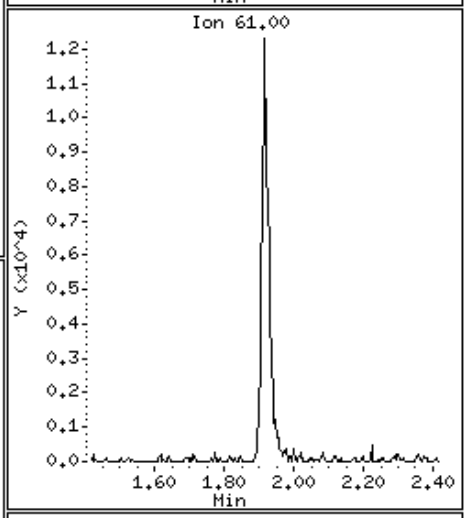


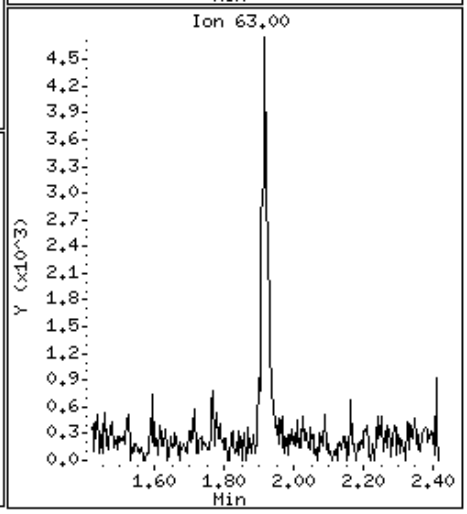












Data File: \\NAHSTWS005\Target\chem\voa6.i\X230717.b\Y071721.D Page 4

Date : 18-JUL-2023 04:39

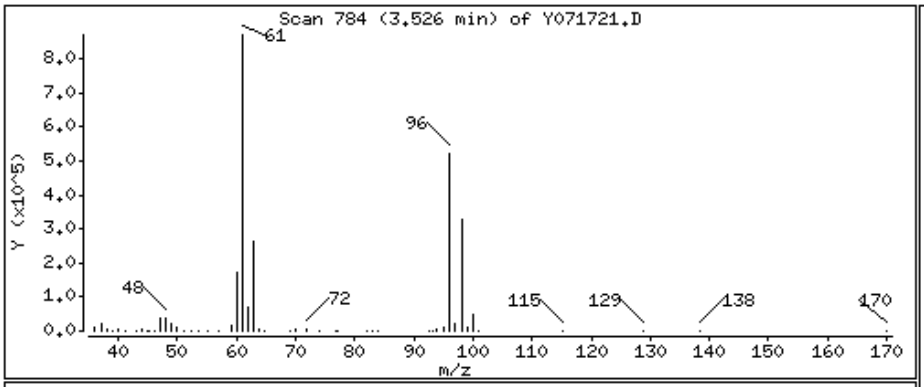
Client ID: HS23070658-01 Instrument: voa6.i

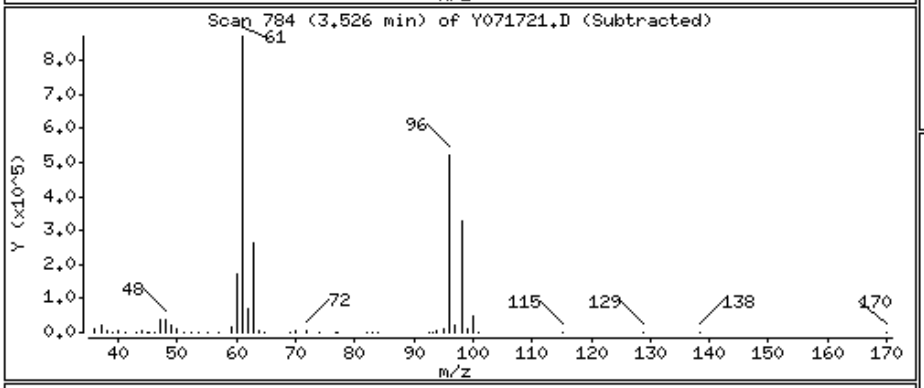
Sample Info: HS23070658-01;HS23070658-01;;;

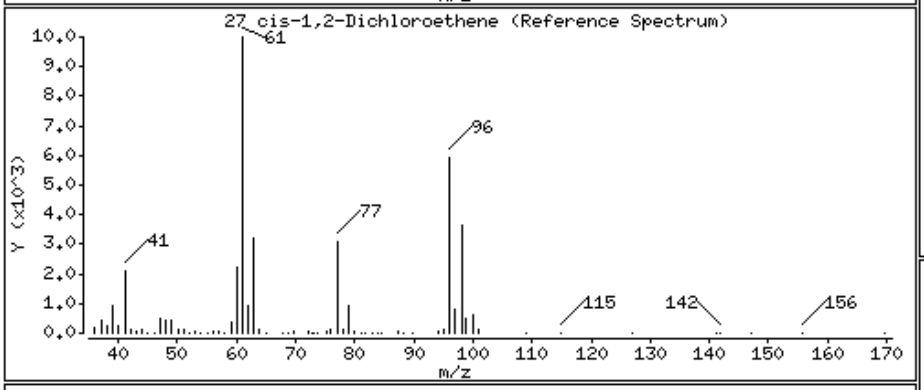
Purge Volume: 5.0 Operator: PC

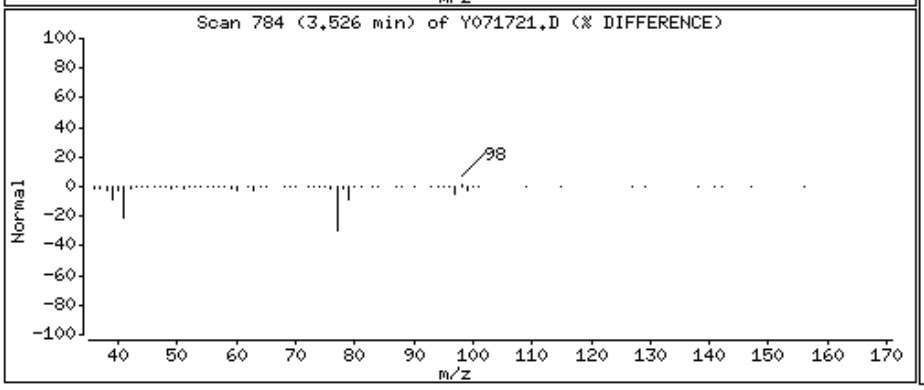
Column phase: DB624 Column diameter: 0.18

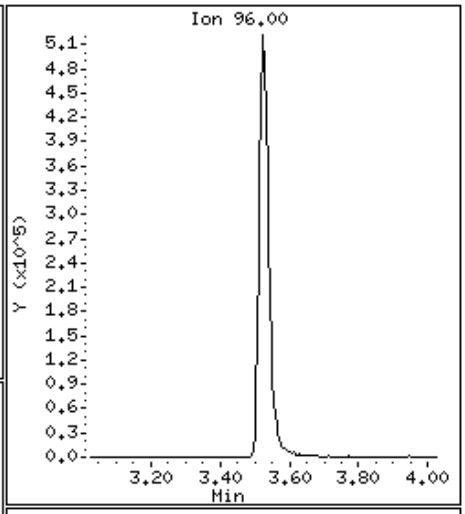
27 cis-1,2-Dichloroethene Concentration: 761.61 ug/l

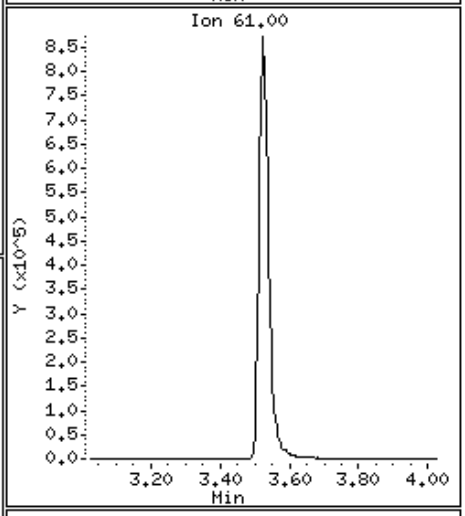


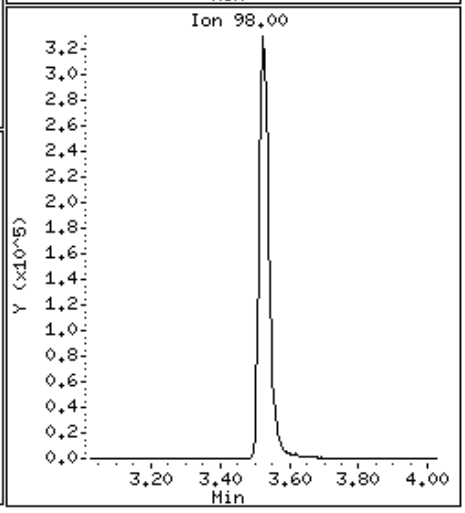












Data File: \\NAHSTWS005\Target\chem\voa6.i\X230717.b\Y071721.D Page 5

Date : 18-JUL-2023 04:39

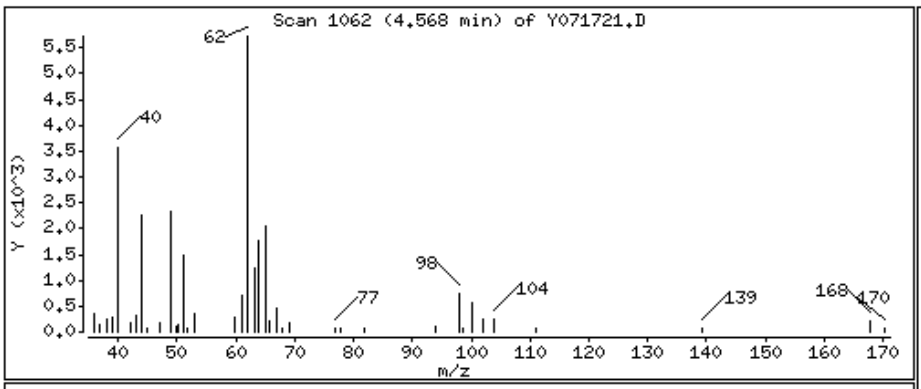
Client ID: HS23070658-01 Instrument: voa6.i

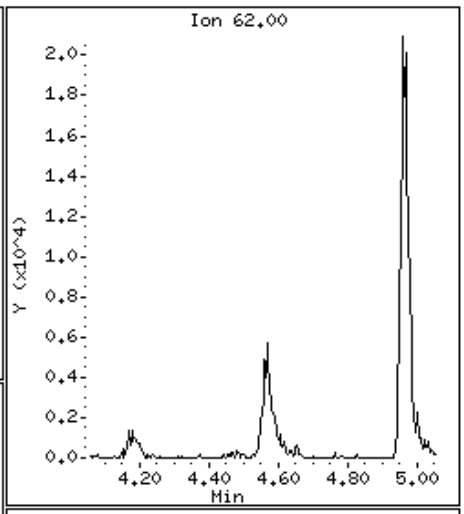
Sample Info: HS23070658-01;HS23070658-01;;;

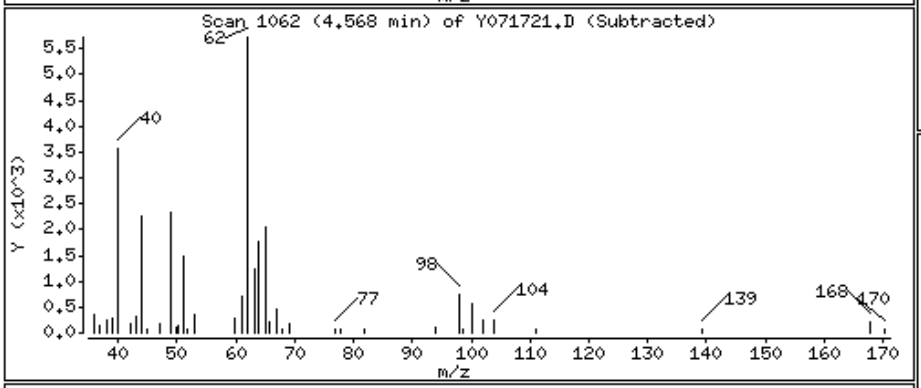
Purge Volume: 5.0 Operator: PC

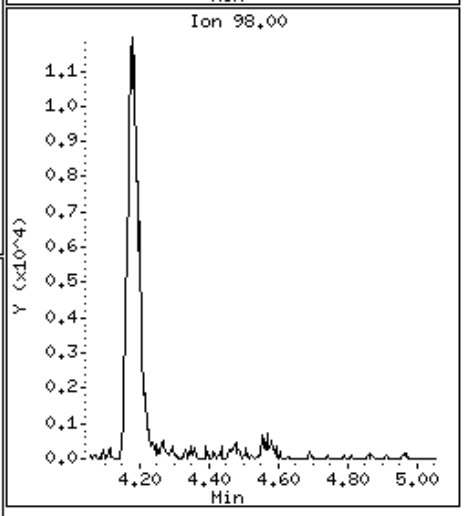
Column phase: DB624 Column diameter: 0.18

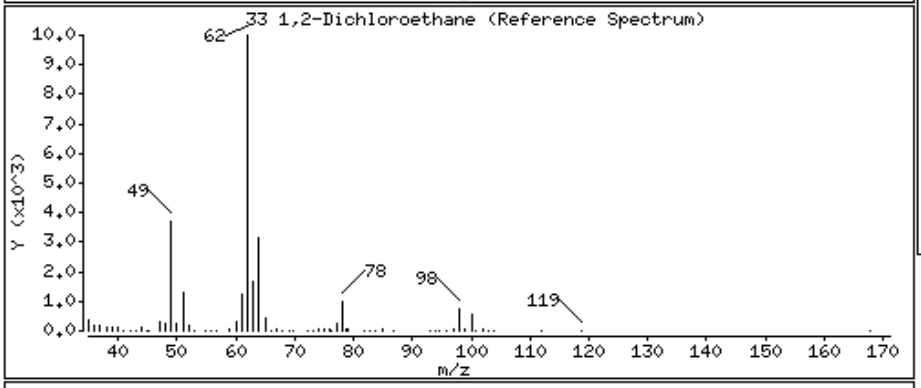
33 1,2-Dichloroethane Concentration: 5.21 ug/l

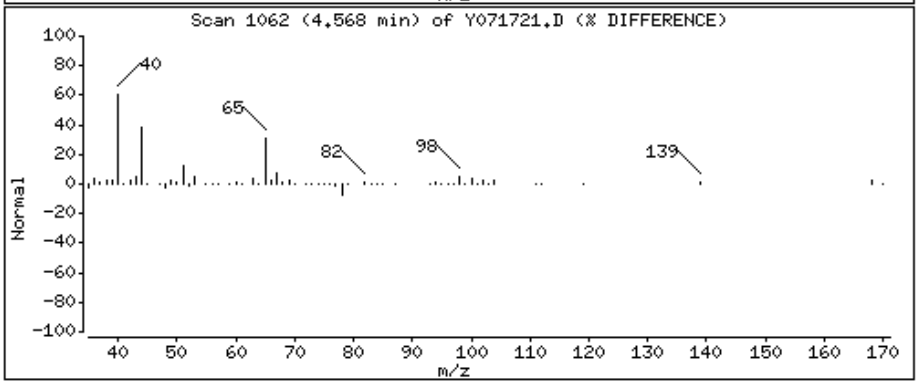












Data File: \\NAHSTWS005\Target\chem\voa6.i\X230717.b\Y071721.D Page 6

Date : 18-JUL-2023 04:39

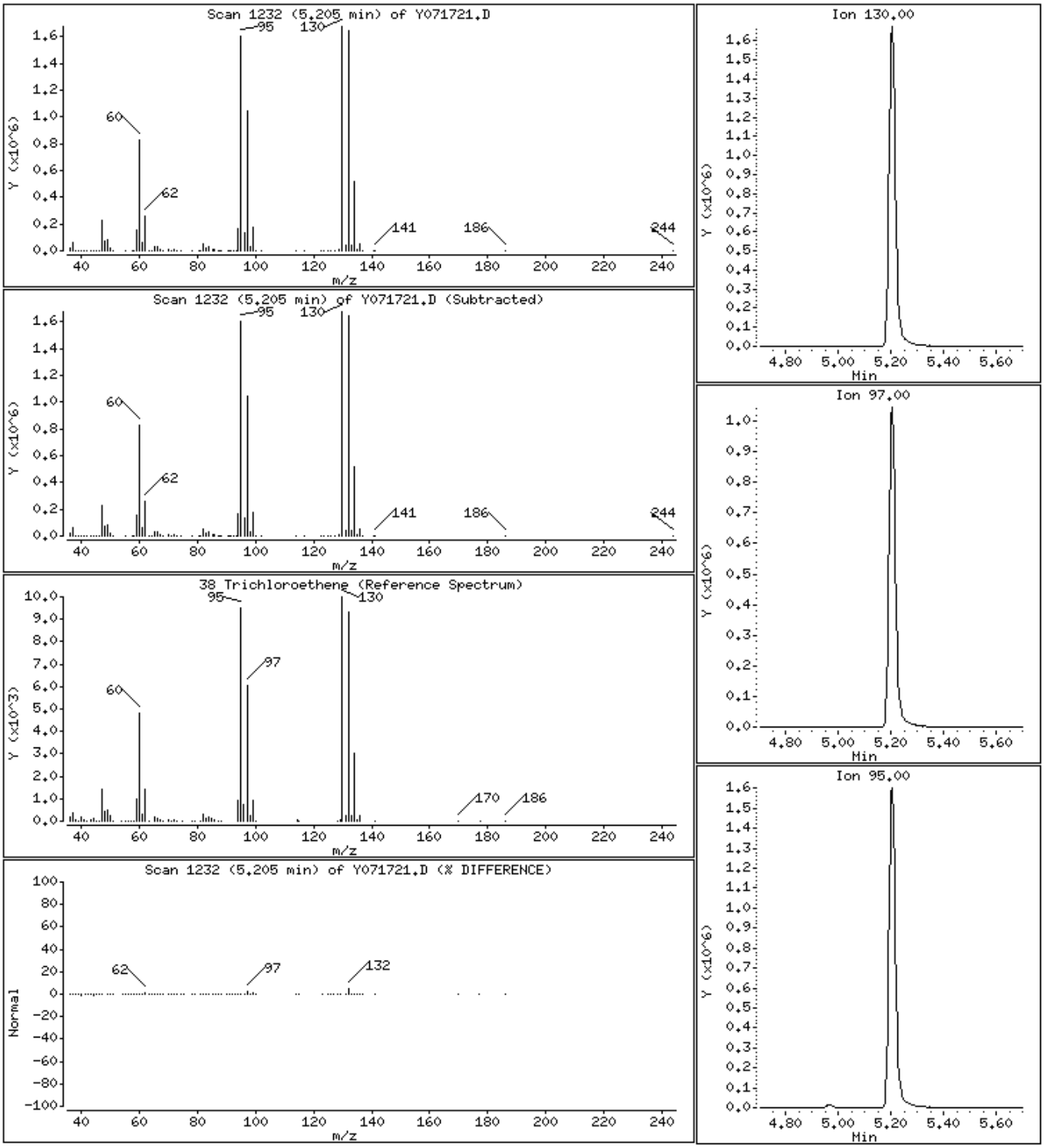
Client ID: HS23070658-01 Instrument: voa6.i

Sample Info: HS23070658-01;HS23070658-01;;;

Purge Volume: 5.0 Operator: PC

Column phase: DB624 Column diameter: 0.18

38 Trichloroethene Concentration: 2237.45 ug/l



Data File : \\NAHSTWS005\Target\chem\voa6.i\X230717.b\Y071721.D
Inj Date : 18-JUL-2023 04:39
InstruID : voa6.i
LabSampID : HS23070658-01

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230717.b\Y071722.D Page 1
Report Date: 20-Jul-2023 15:03

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230717.b\Y071722.D
Lab Smp Id: HS23070658-01 Client Smp ID: HS23070658-01
Inj Date : 18-JUL-2023 04:59
Operator : PC Inst ID: voa6.i
Smp Info : HS23070658-01;HS23070658-01;;;
Misc Info : V6;WATER;0;50;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230717.b\8260W.m
Meth Date : 20-Jul-2023 15:02 voa6.i Quant Type: ISTD
Cal Date : 14-JUL-2023 14:24 Cal File: X071408.D
Als bottle: 51
Dil Factor: 50.00000
Integrator: HP RTE Compound Sublist: 0474-dod.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	50.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.178	4.177	(1.000)	619734	50.0000	
$ 30 Dibromofluoromethane	113	4.099	4.099	(0.981)	304713	53.7030	53.70
$ 35 1,2-Dichloroethane-d4	65	4.470	4.470	(1.070)	380264	53.5803	53.58
* 36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	940550	50.0000	
* 47 Chlorobenzene-d5	117	7.668	7.667	(1.000)	836111	50.0000	
$ 48 Toluene-d8	98	6.386	6.385	(0.833)	1104758	51.3189	51.31
$ 69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	390650	46.8988	46.89
* 70 1,4-Dichlorobenzene-d4	152	9.662	9.658	(1.000)	429368	50.0000	
5 Vinyl Chloride	62	1.145	1.145	(0.274)	27621	3.44417	172.20(a)
27 cis-1,2-Dichloroethene	96	3.529	3.529	(0.845)	174680	26.1095	1305.47
38 Trichloroethene	130	5.205	5.205	(1.048)	369876	58.1245	2906.22

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).

01321029

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230717.b\Y071722.D

Date : 18-JUL-2023 04:59

Client ID: HS23070658-01

Instrument: voa6.i

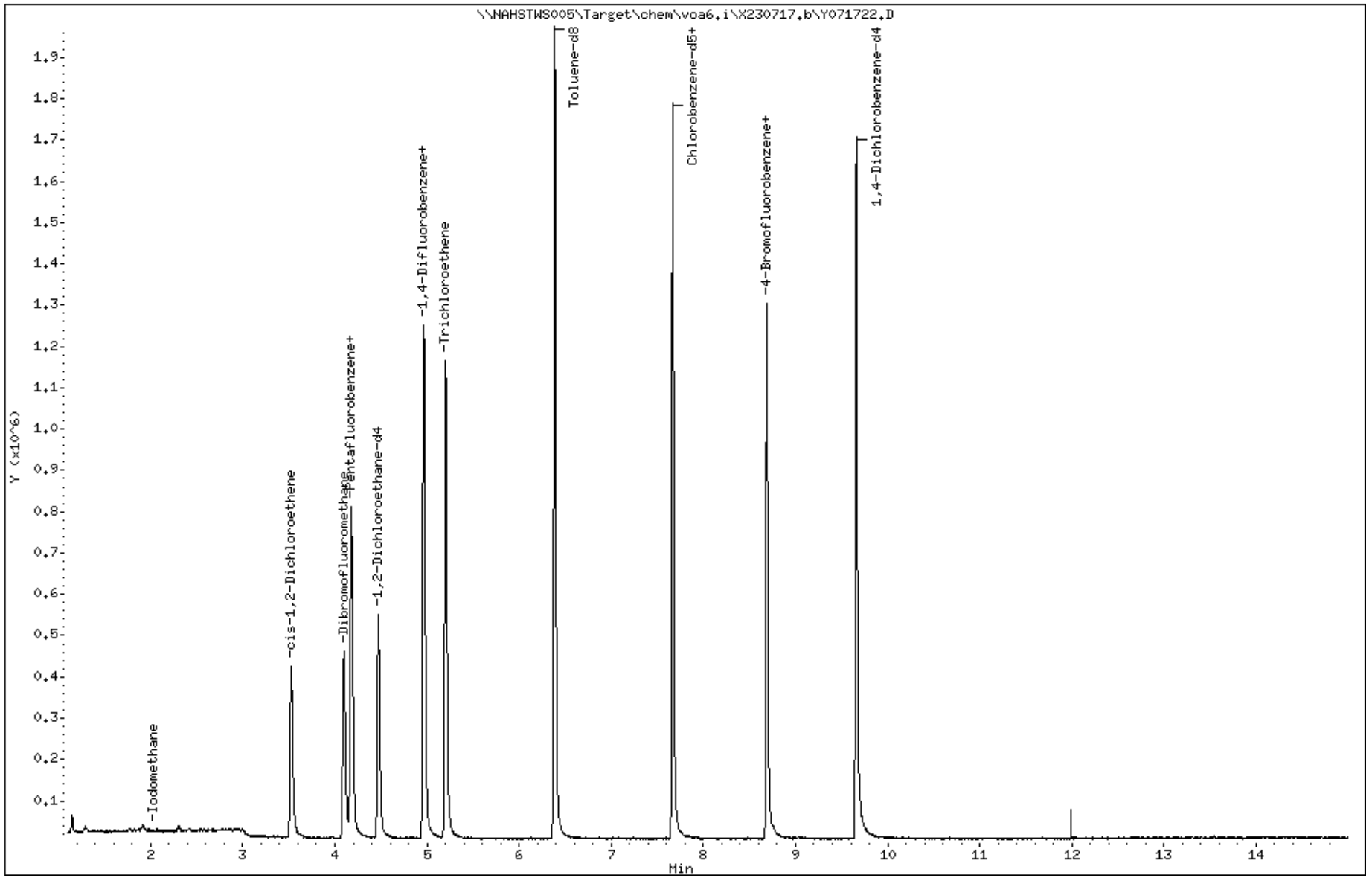
Sample Info: HS23070658-01;HS23070658-01;;;

Purge Volume: 5.0

Operator: PC

Column phase: DB624

Column diameter: 0.18



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230717.b\Y071722.D

Date : 18-JUL-2023 04:59

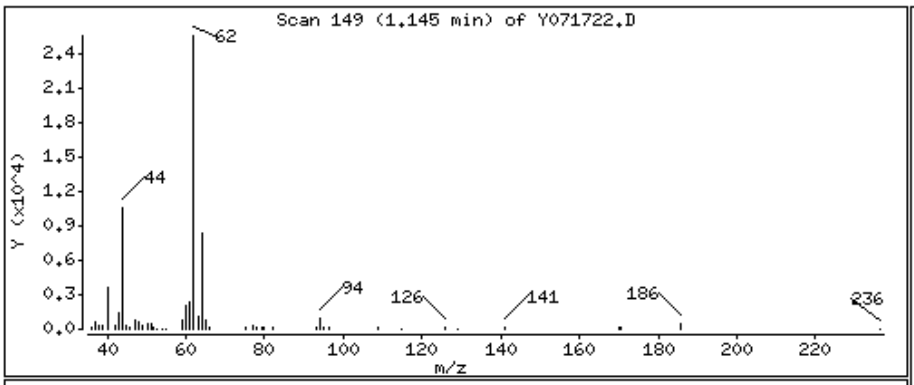
Client ID: HS23070658-01 Instrument: voa6.i

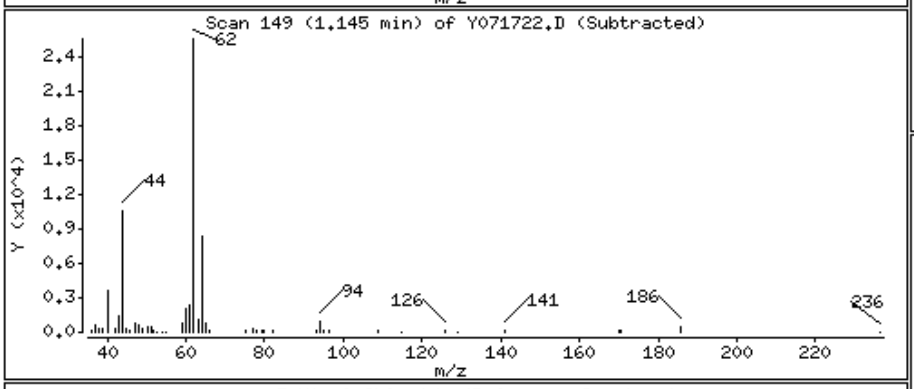
Sample Info: HS23070658-01;HS23070658-01;;;

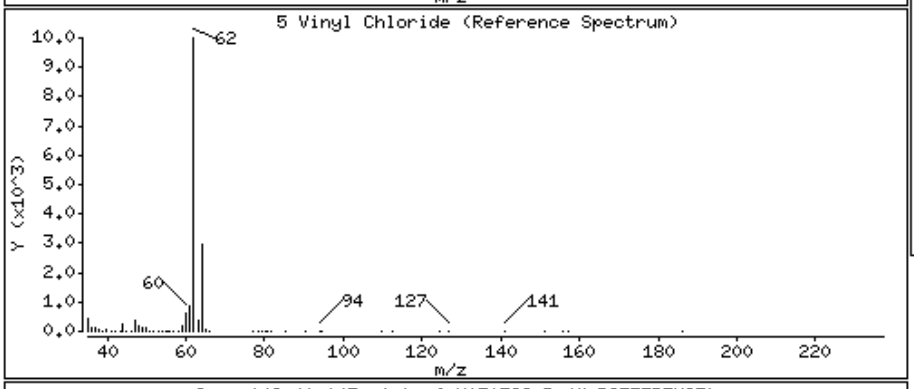
Purge Volume: 5.0 Operator: PC

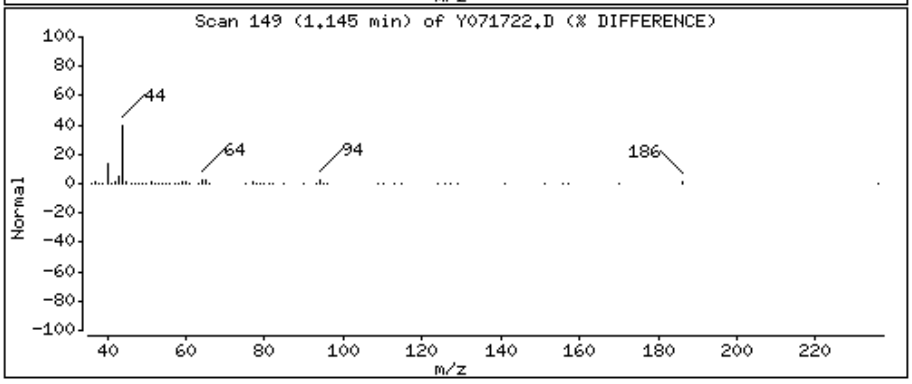
Column phase: DB624 Column diameter: 0.18

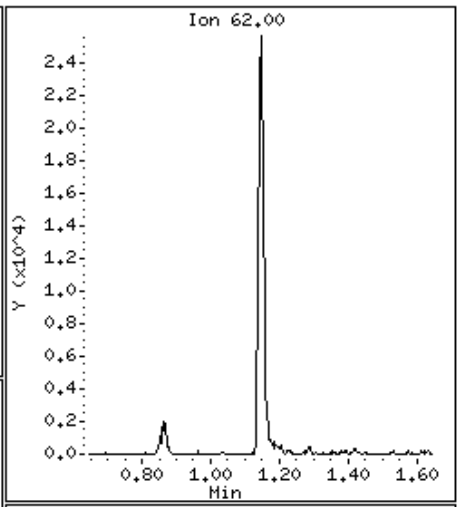
5 Vinyl Chloride Concentration: 172.20 ug/l

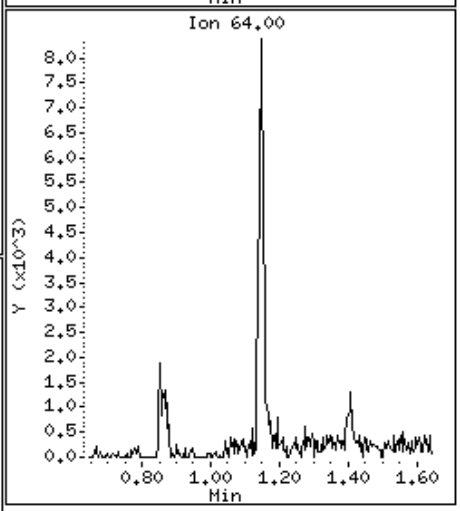












Data File: \\NAHSTWS005\Target\chem\voa6.i\X230717.b\Y071722.D Page 3

Date : 18-JUL-2023 04:59

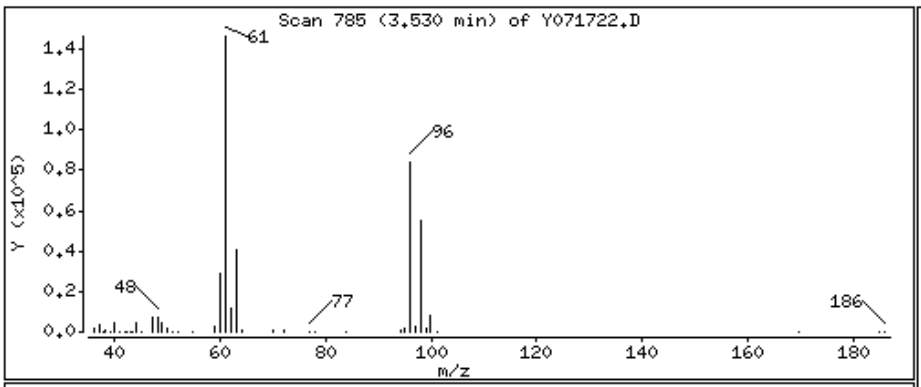
Client ID: HS23070658-01 Instrument: voa6.i

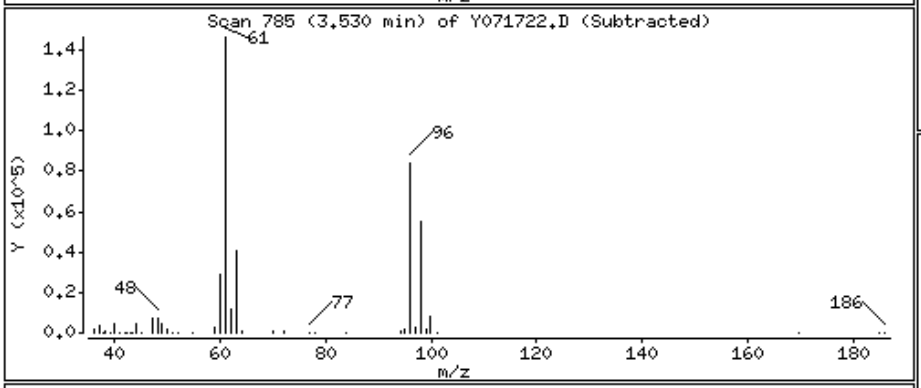
Sample Info: HS23070658-01;HS23070658-01;;;

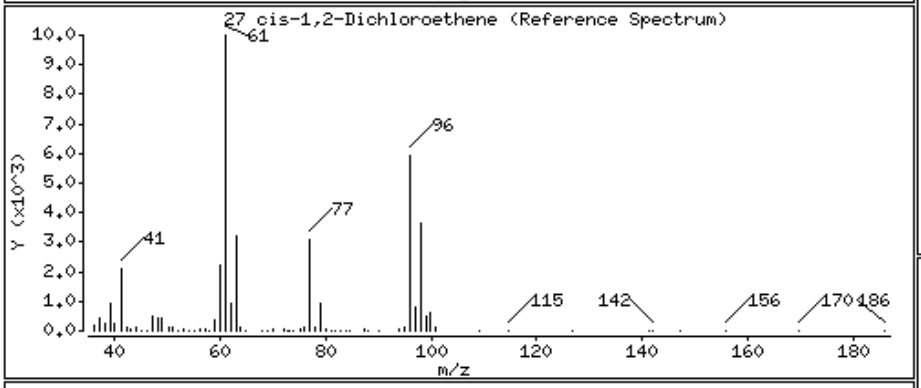
Purge Volume: 5.0 Operator: PC

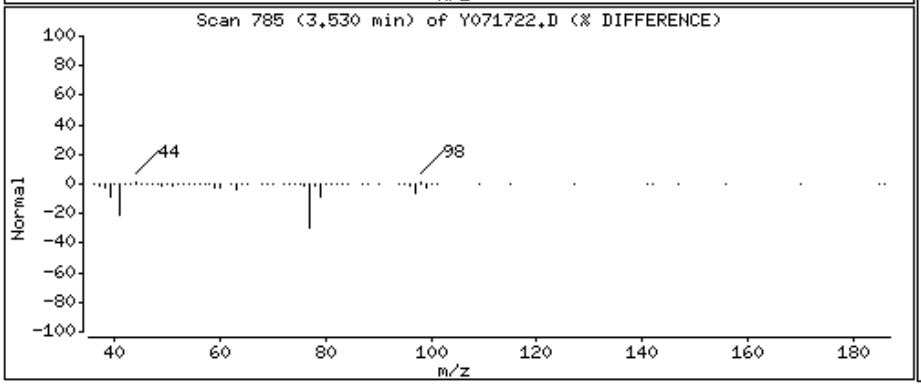
Column phase: DB624 Column diameter: 0.18

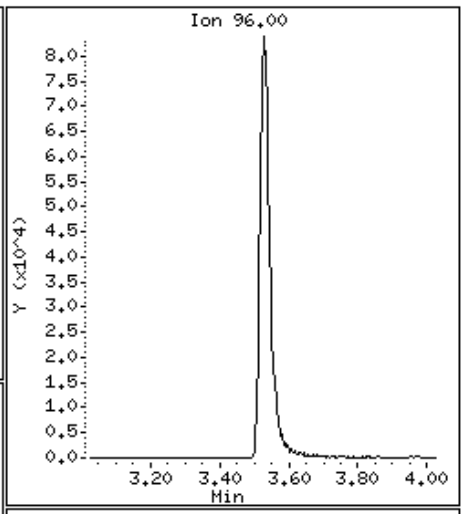
27 cis-1,2-Dichloroethene Concentration: 1305.47 ug/l

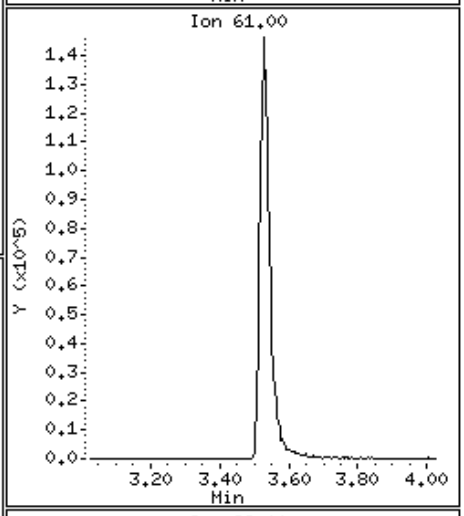


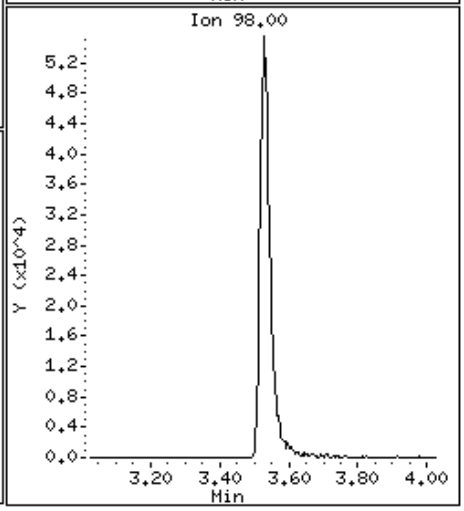












Data File: \\NAHSTWS005\Target\chem\voa6.i\X230717.b\Y071722.D Page 4

Date : 18-JUL-2023 04:59

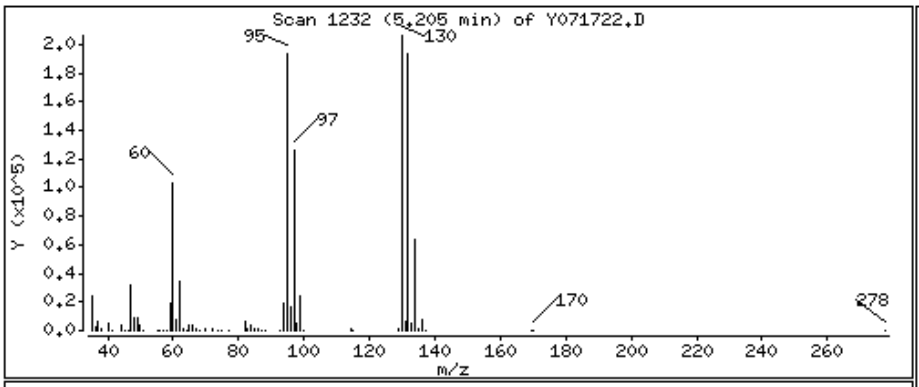
Client ID: HS23070658-01 Instrument: voa6.i

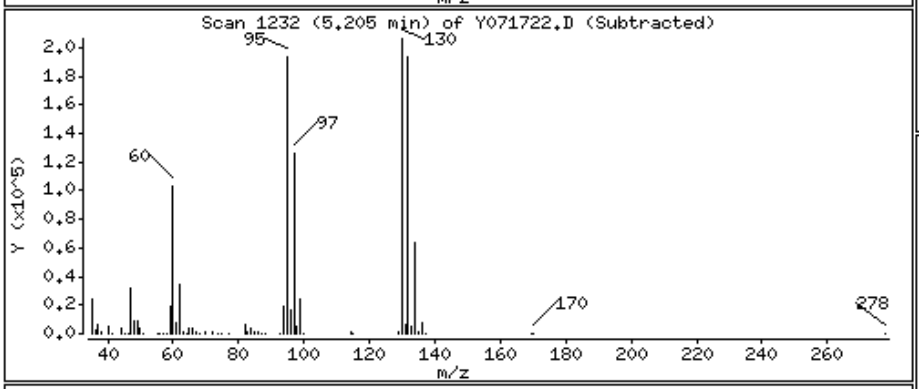
Sample Info: HS23070658-01;HS23070658-01;;;

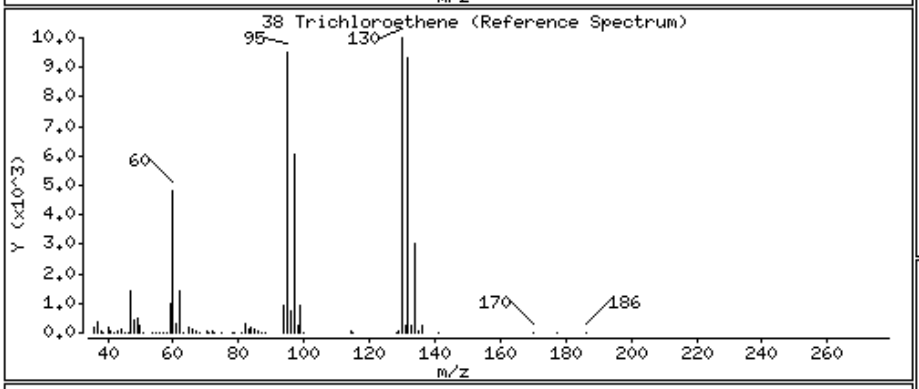
Purge Volume: 5.0 Operator: PC

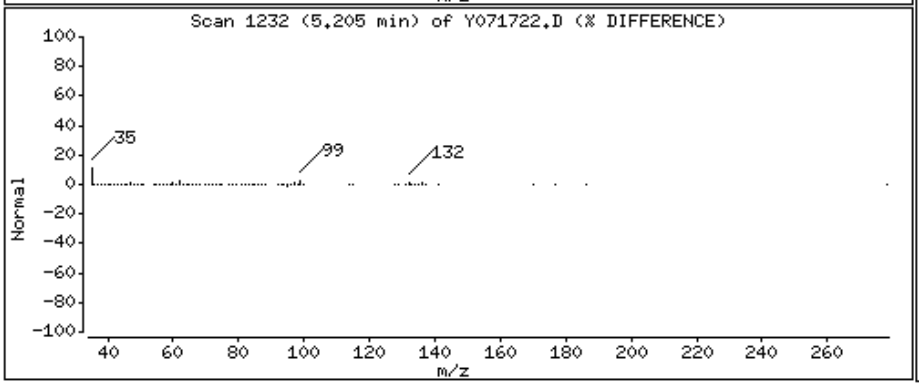
Column phase: DB624 Column diameter: 0.18

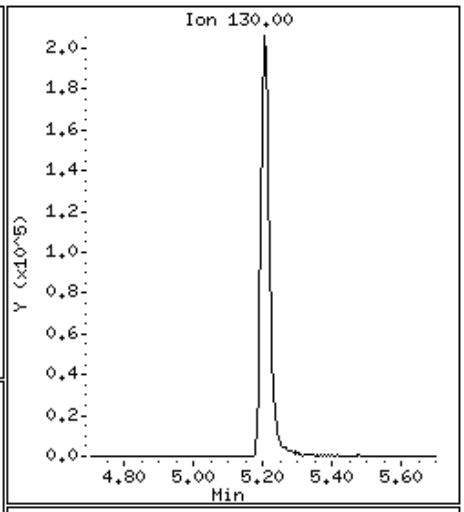
38 Trichloroethene Concentration: 2906.22 ug/l

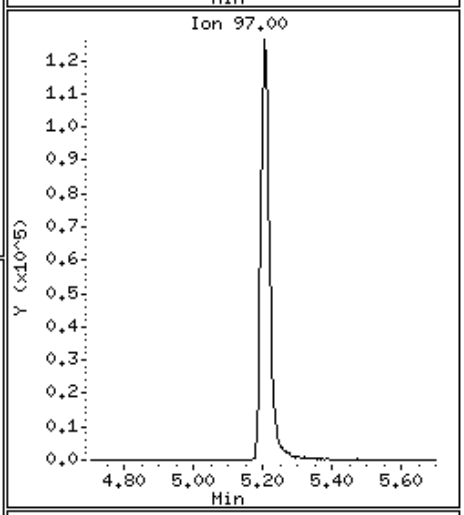


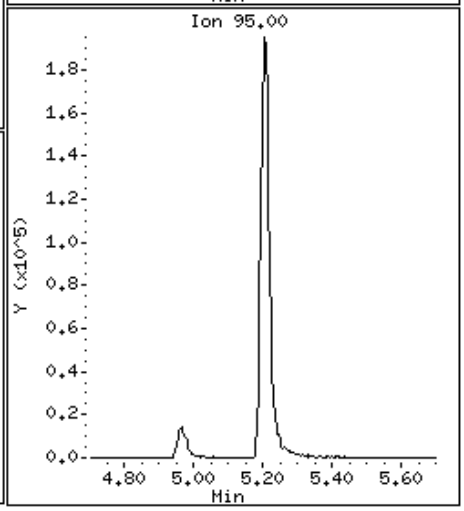












Data File : \\NAHSTWS005\Target\chem\voa6.i\X230717.b\Y071722.D
Inj Date : 18-JUL-2023 04:59
InstruID : voa6.i
LabSampID : HS23070658-01

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230717.b\Y071723.D Page 1
Report Date: 20-Jul-2023 15:03

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230717.b\Y071723.D
Lab Smp Id: HS23070658-02 Client Smp ID: HS23070658-02
Inj Date : 18-JUL-2023 05:20
Operator : PC Inst ID: voa6.i
Smp Info : HS23070658-02;HS23070658-02;;;
Misc Info : V6;WATER;0;10;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230717.b\8260W.m
Meth Date : 20-Jul-2023 15:02 voa6.i Quant Type: ISTD
Cal Date : 14-JUL-2023 14:24 Cal File: X071408.D
Als bottle: 52
Dil Factor: 10.00000
Integrator: HP RTE Compound Sublist: 0474-dod.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	10.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.177	4.177	(1.000)	645873	50.0000	
$ 30 Dibromofluoromethane	113	4.099	4.099	(0.981)	314881	53.2427	53.24
$ 35 1,2-Dichloroethane-d4	65	4.470	4.470	(1.070)	387690	52.4024	52.40
* 36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	984075	50.0000	
* 47 Chlorobenzene-d5	117	7.667	7.667	(1.000)	860946	50.0000	
$ 48 Toluene-d8	98	6.385	6.385	(0.833)	1132265	51.0795	51.07
$ 69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	417042	48.6388	48.63
* 70 1,4-Dichlorobenzene-d4	152	9.662	9.658	(1.000)	435376	50.0000	
5 Vinyl Chloride	62	1.145	1.145	(0.274)	741775	88.7515	887.51
11 1,1-Dichloroethene	96	1.917	1.917	(0.459)	15638	3.30493	33.04(a)
27 cis-1,2-Dichloroethene	96	3.525	3.529	(0.844)	3059212	438.755	4387.55(A)
33 1,2-Dichloroethane	62	4.571	4.556	(0.921)	6640	0.61296	6.12(a)
38 Trichloroethene	130	5.205	5.205	(1.048)	4185470	628.639	6286.38(A)
20 trans-1,2-Dichloroethene	96	2.532	2.528	(0.606)	7078	1.29319	12.93(a)

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).

A - Target compound detected but, quantitated amount exceeded maximum amount.

01321036

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230717.b\Y071723.D

Date : 18-JUL-2023 05:20

Client ID: HS23070658-02

Instrument: voa6.i

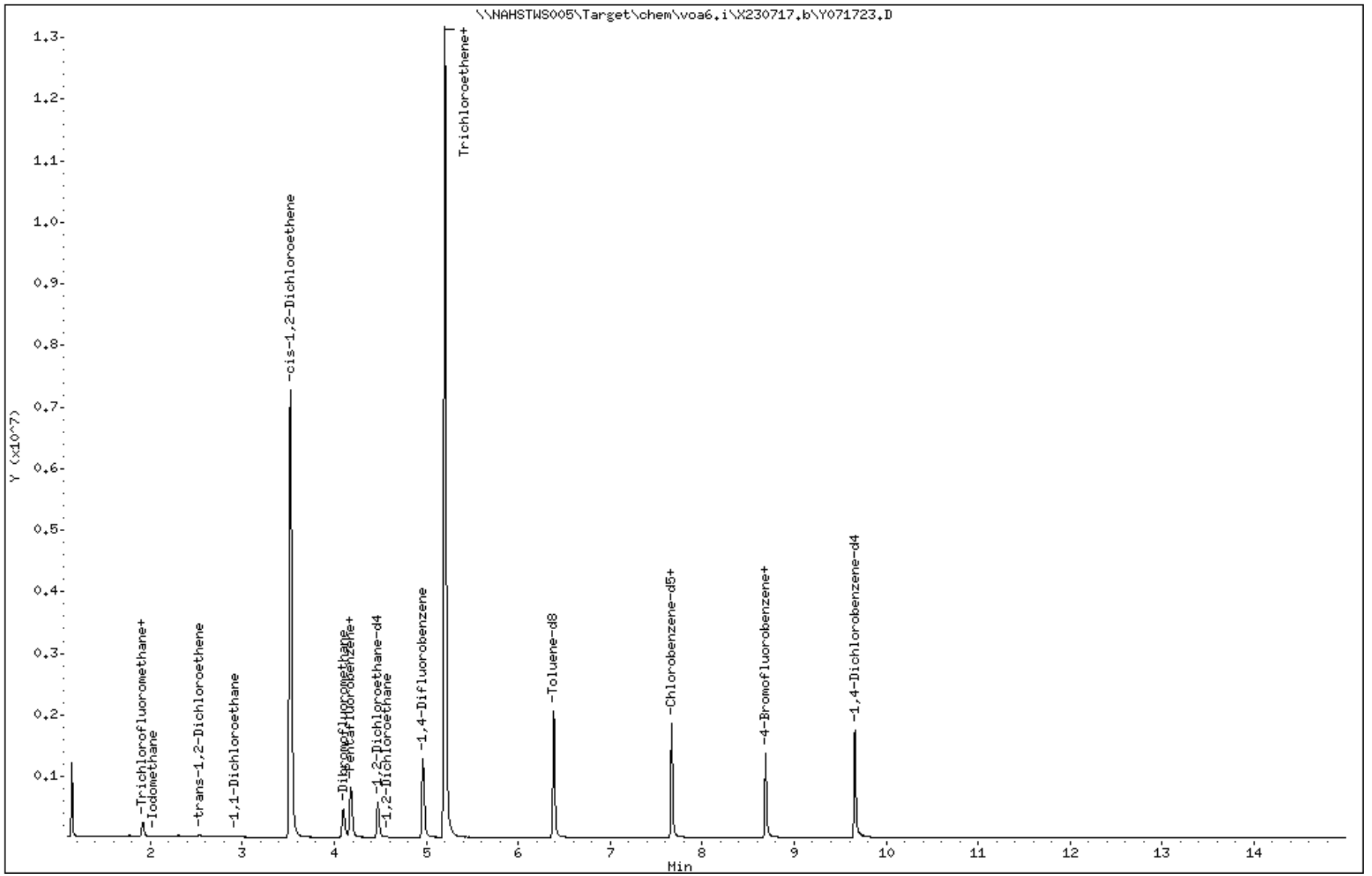
Sample Info: HS23070658-02;HS23070658-02;;;

Purge Volume: 5.0

Operator: PC

Column phase: DB624

Column diameter: 0.18



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Date : 18-JUL-2023 05:20

Client ID: HS23070658-02

Instrument: voa6.i

Sample Info: HS23070658-02;HS23070658-02;;;

Purge Volume: 5.0

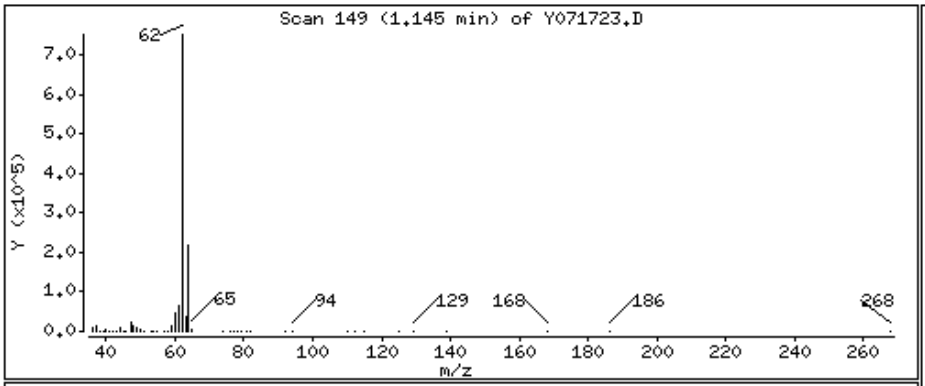
Operator: PC

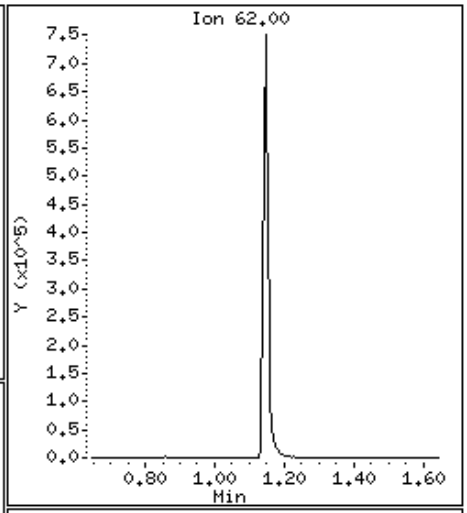
Column phase: DB624

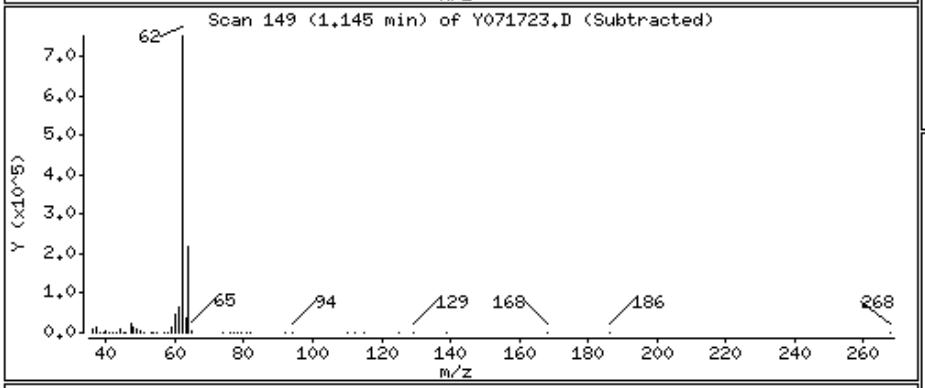
Column diameter: 0.18

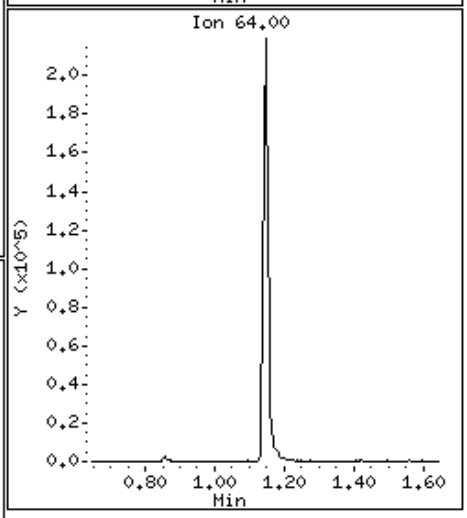
5 Vinyl Chloride

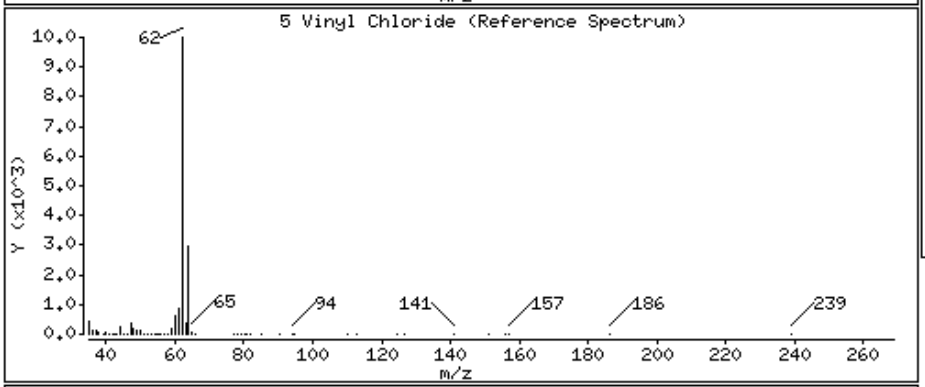
Concentration: 887.51 ug/l

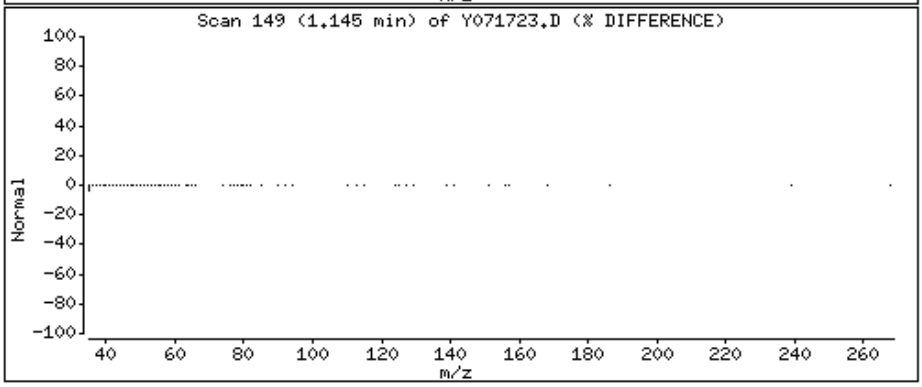












Data File: \\NAHSTWS005\Target\chem\voa6.i\X230717.b\Y071723.D Page 3

Date : 18-JUL-2023 05:20

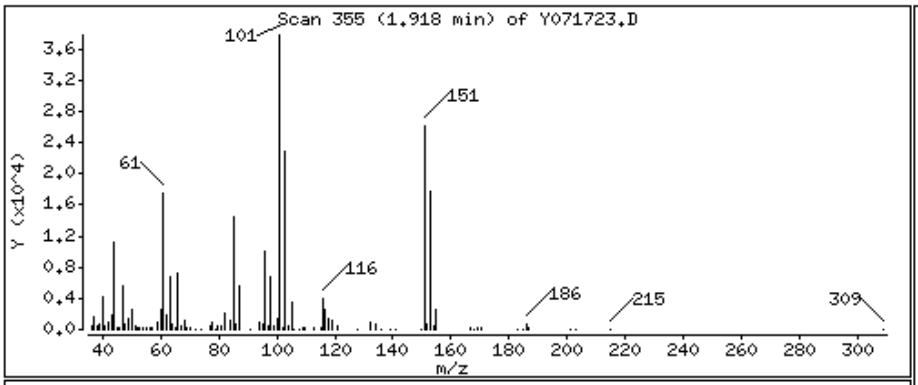
Client ID: HS23070658-02 Instrument: voa6.i

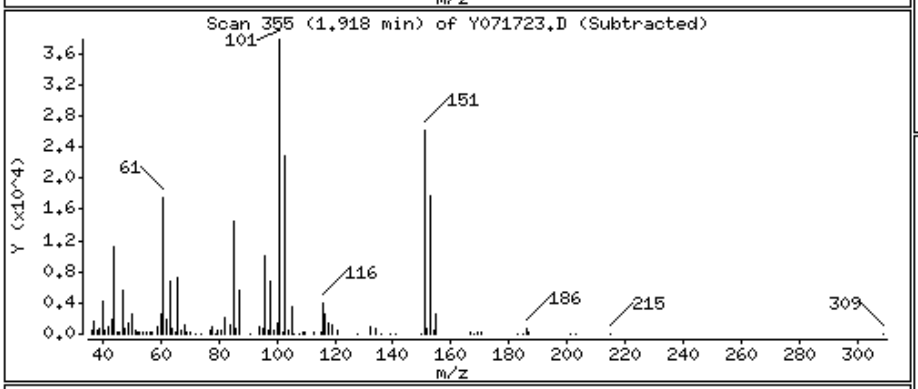
Sample Info: HS23070658-02;HS23070658-02;;;

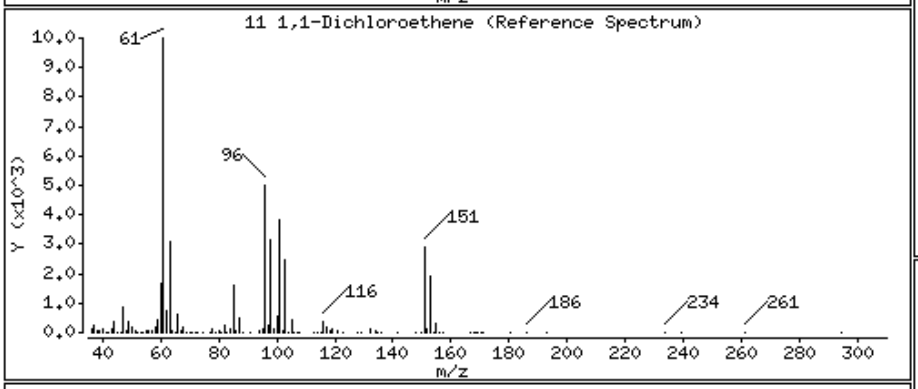
Purge Volume: 5.0 Operator: PC

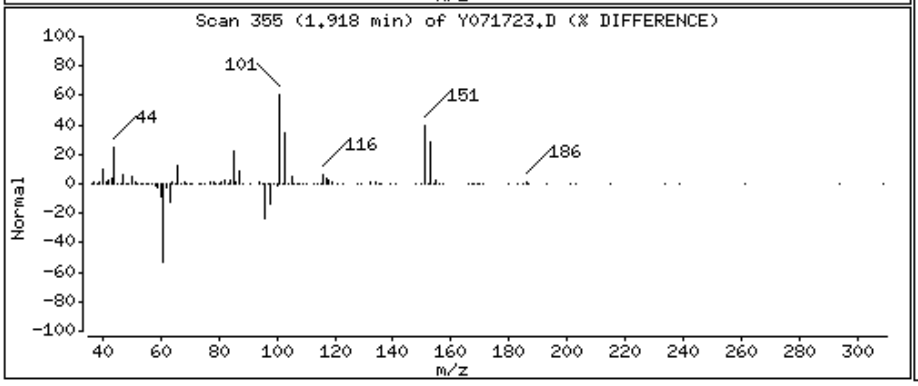
Column phase: DB624 Column diameter: 0.18

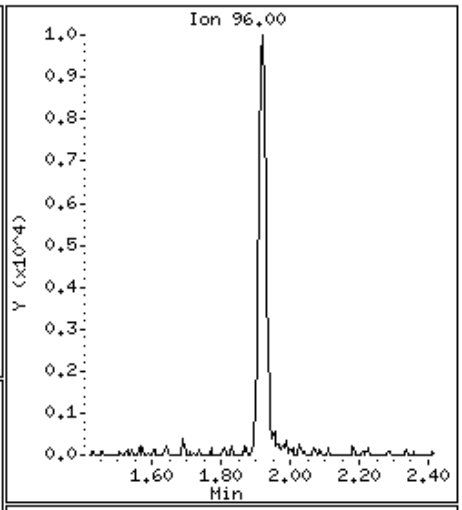
11 1,1-Dichloroethene Concentration: 33.04 ug/l

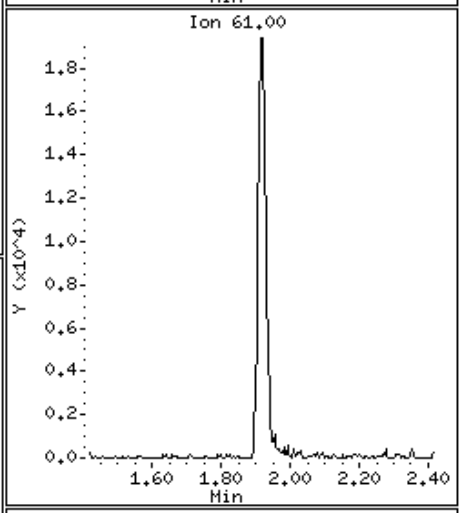


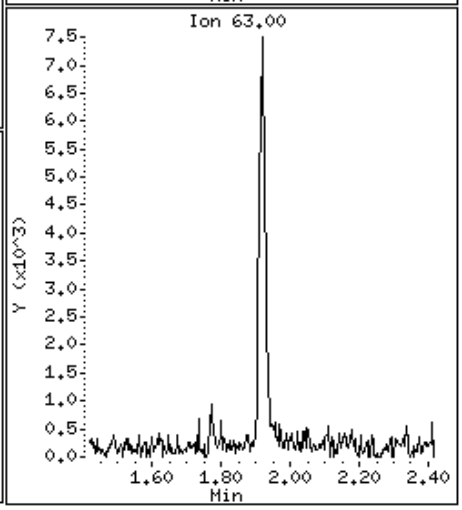












Data File: \\NAHSTWS005\Target\chem\voa6.i\X230717.b\Y071723.D Page 4

Date : 18-JUL-2023 05:20

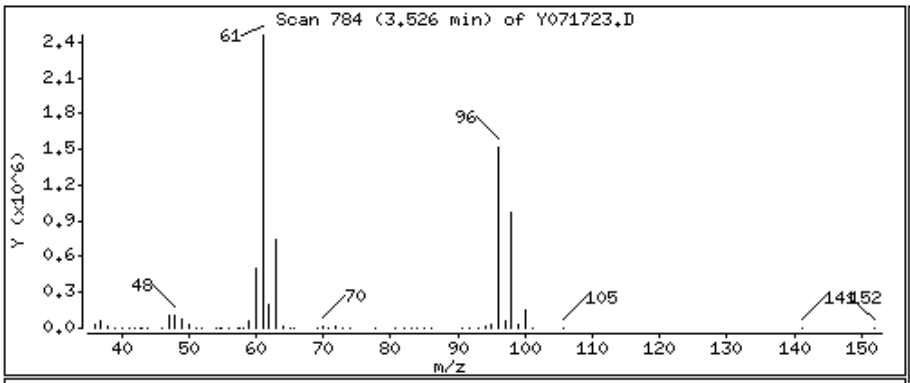
Client ID: HS23070658-02 Instrument: voa6.i

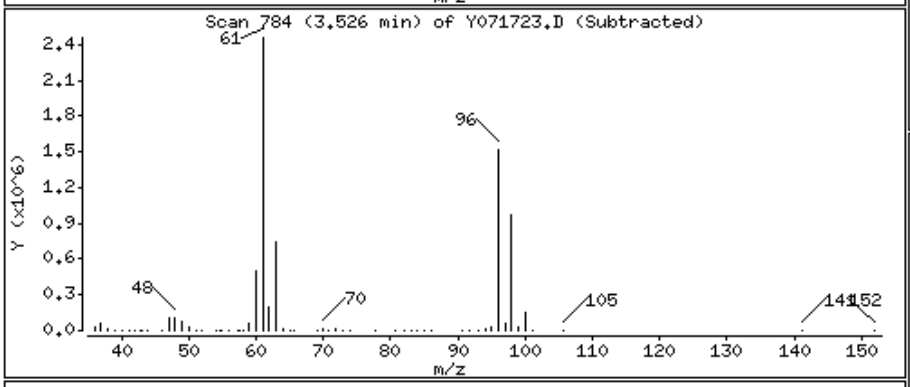
Sample Info: HS23070658-02;HS23070658-02;;;

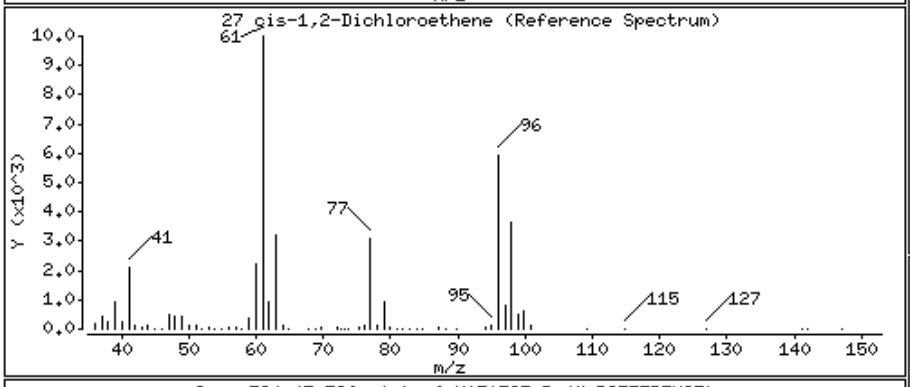
Purge Volume: 5.0 Operator: PC

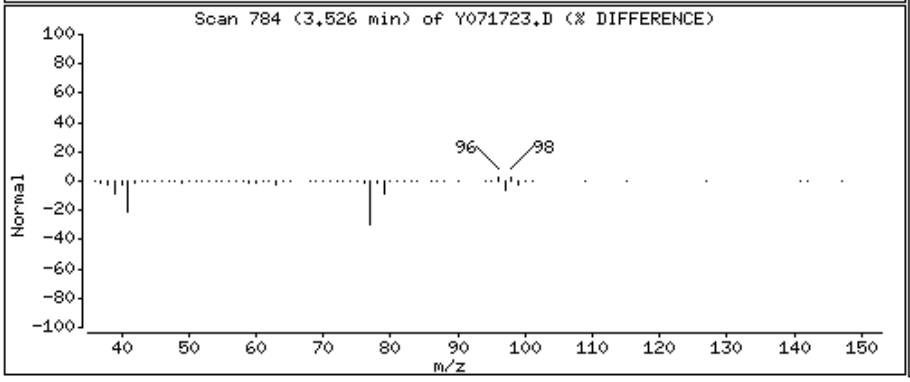
Column phase: DB624 Column diameter: 0.18

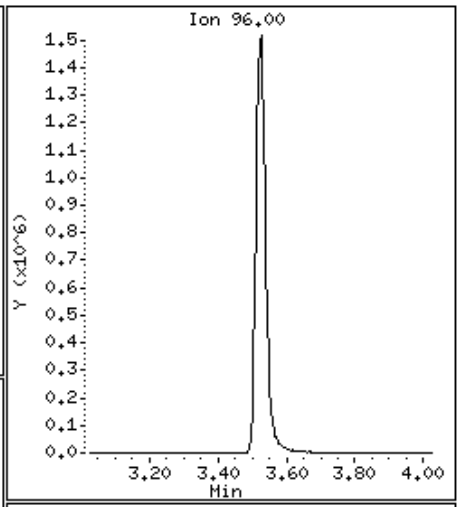
27 cis-1,2-Dichloroethene Concentration: 4387.55 ug/l

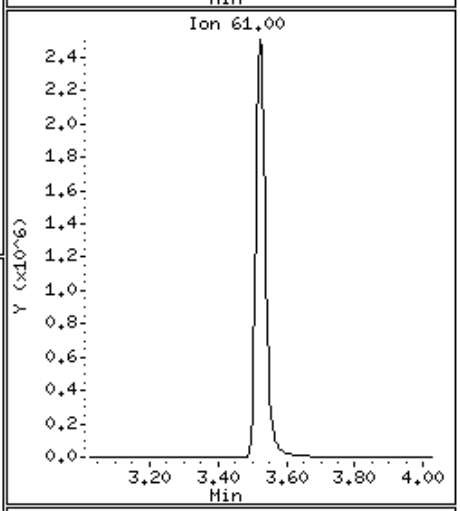


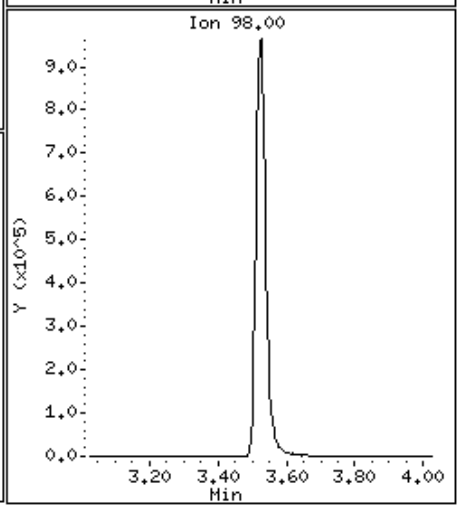












Data File: \\NAHSTWS005\Target\chem\voa6.i\X230717.b\Y071723.D Page 5

Date : 18-JUL-2023 05:20

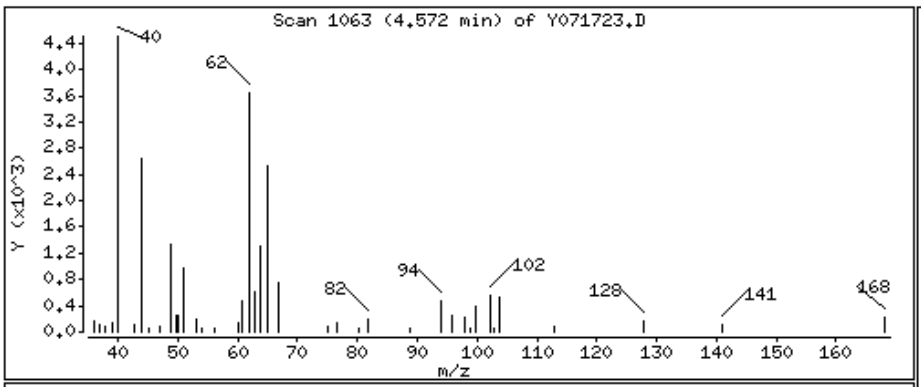
Client ID: HS23070658-02 Instrument: voa6.i

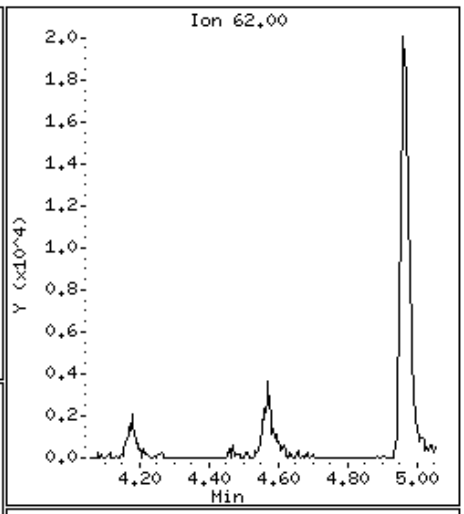
Sample Info: HS23070658-02;HS23070658-02;;;

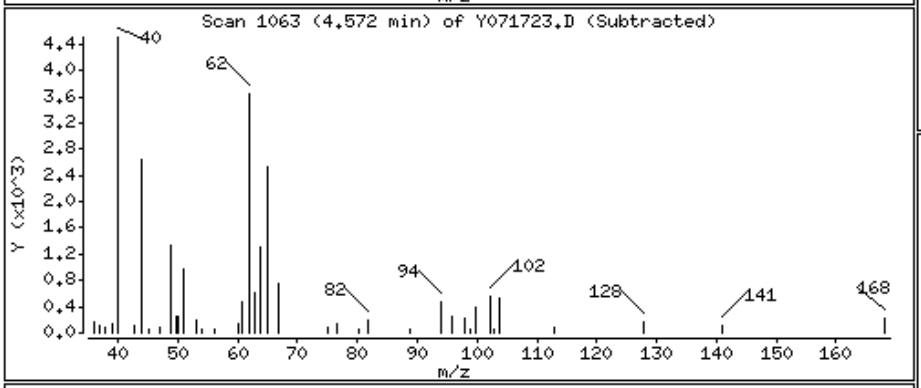
Purge Volume: 5.0 Operator: PC

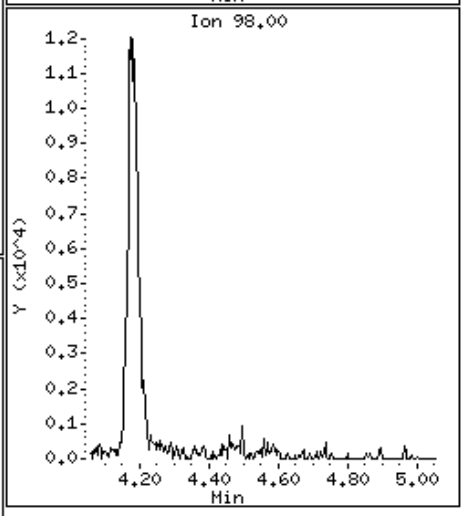
Column phase: DB624 Column diameter: 0.18

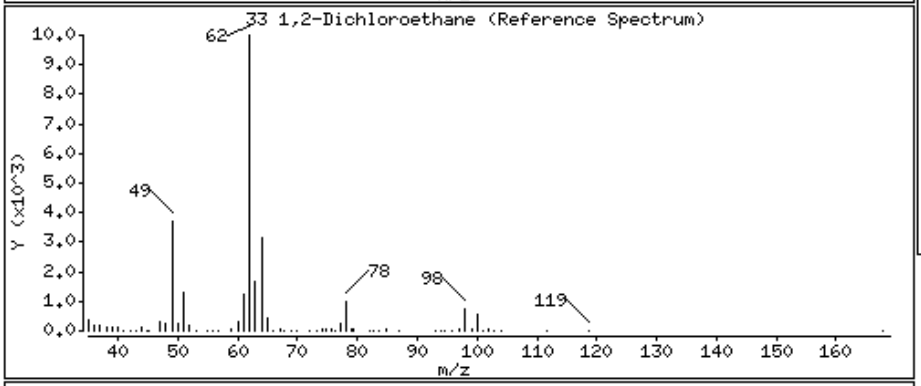
33 1,2-Dichloroethane Concentration: 6.12 ug/l

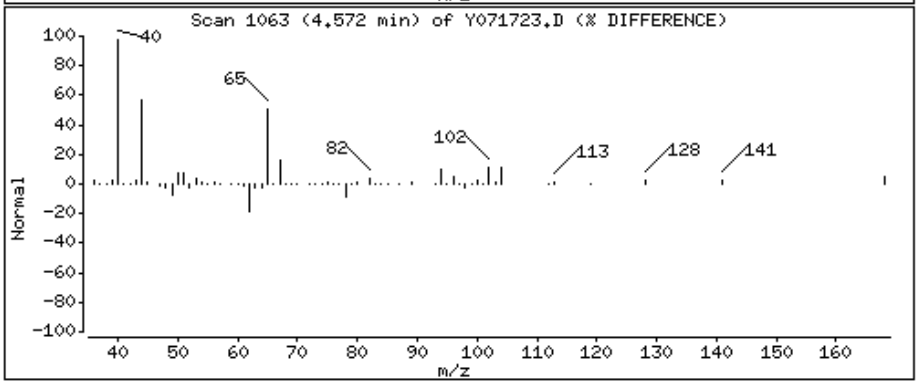












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Date : 18-JUL-2023 05:20

Client ID: HS23070658-02

Instrument: voa6.i

Sample Info: HS23070658-02;HS23070658-02;;;

Purge Volume: 5.0

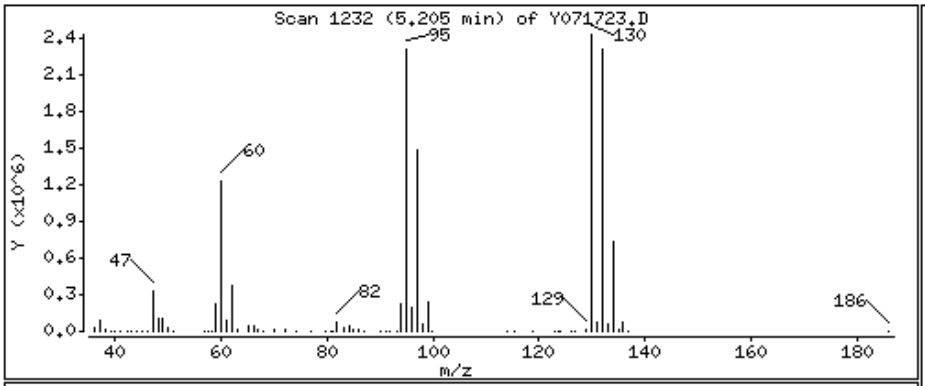
Operator: PC

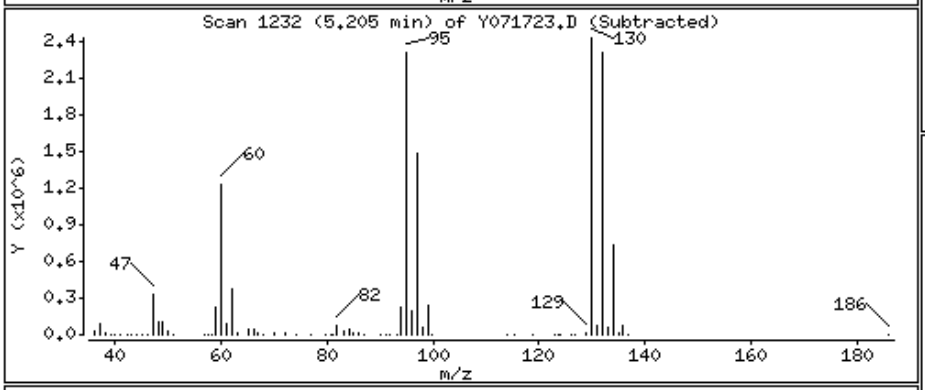
Column phase: DB624

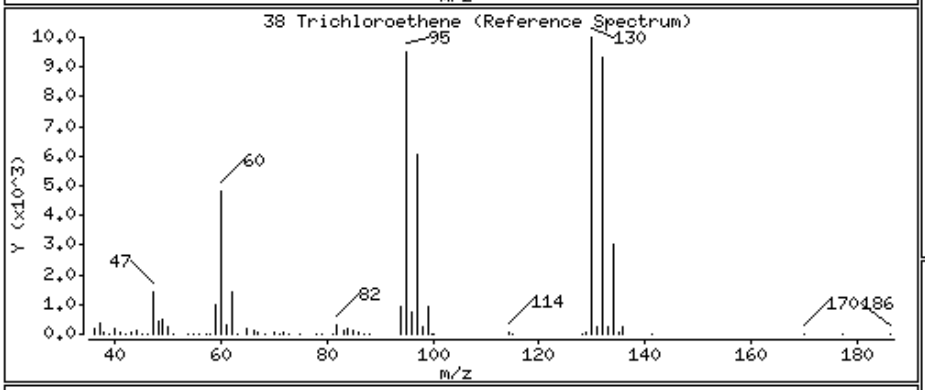
Column diameter: 0.18

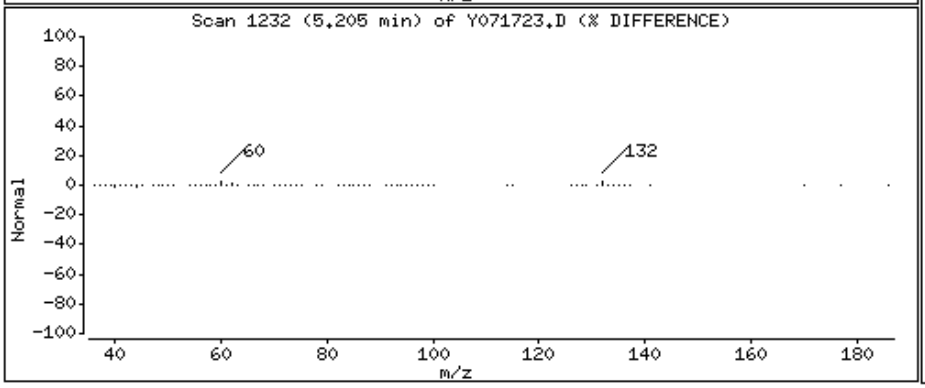
38 Trichloroethene

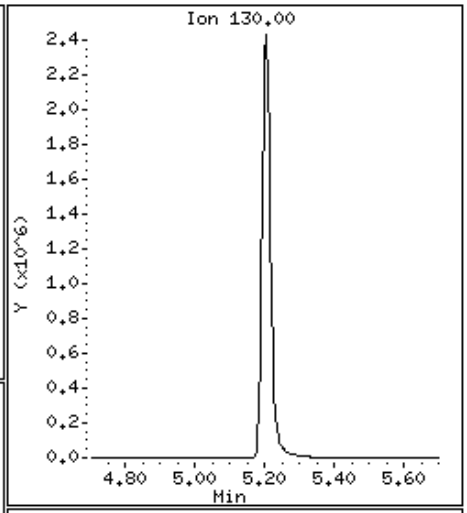
Concentration: 6286.38 ug/l

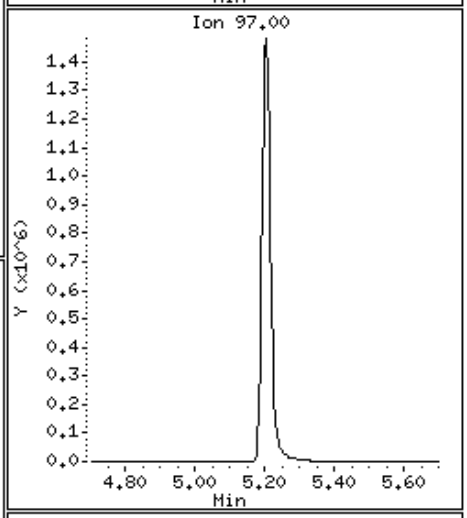


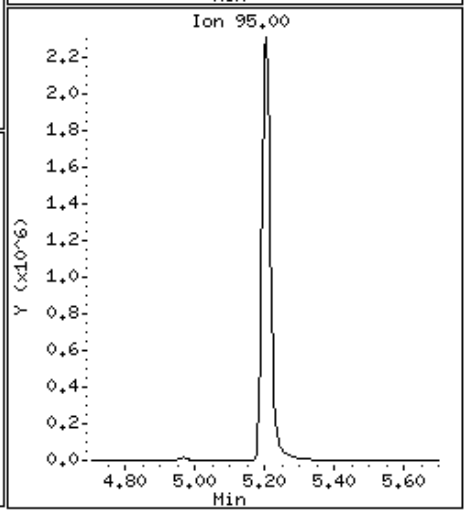












Data File: \\NAHSTWS005\Target\chem\voa6.i\X230717.b\Y071723.D Page 7

Date : 18-JUL-2023 05:20

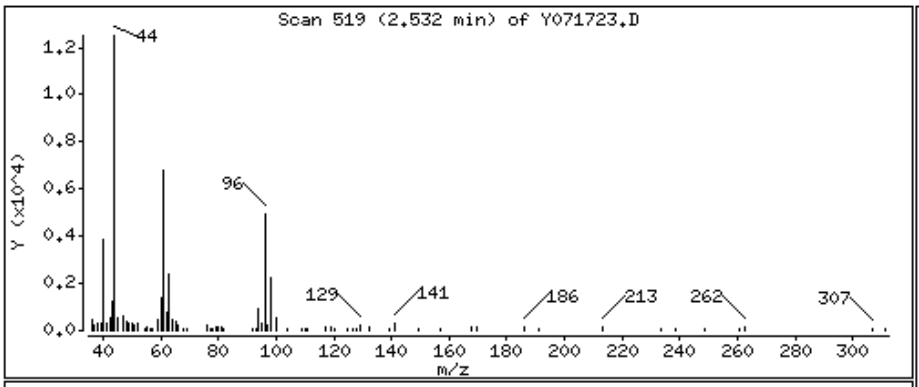
Client ID: HS23070658-02 Instrument: voa6.i

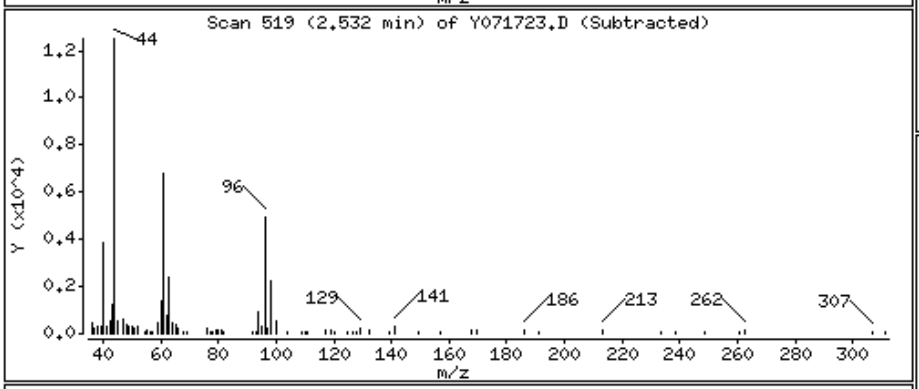
Sample Info: HS23070658-02;HS23070658-02;;;

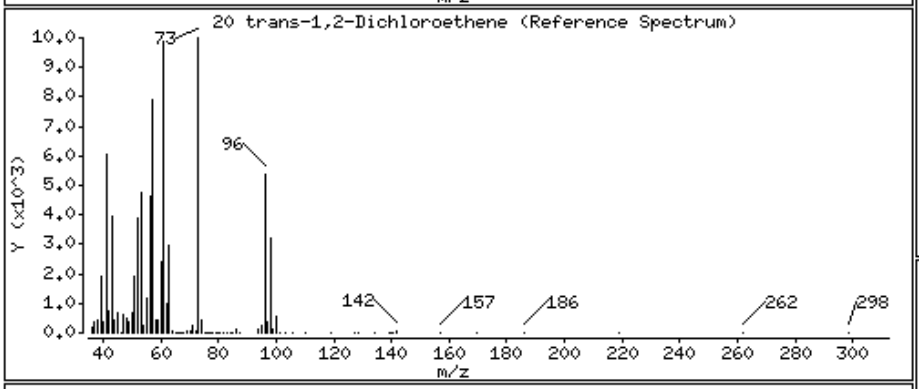
Purge Volume: 5.0 Operator: PC

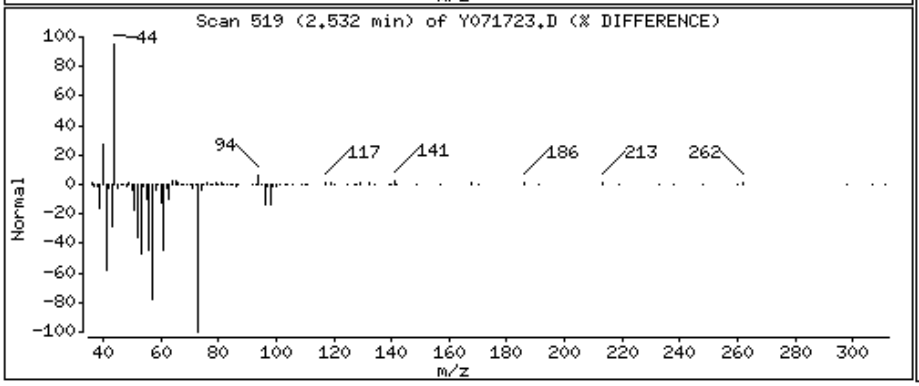
Column phase: DB624 Column diameter: 0.18

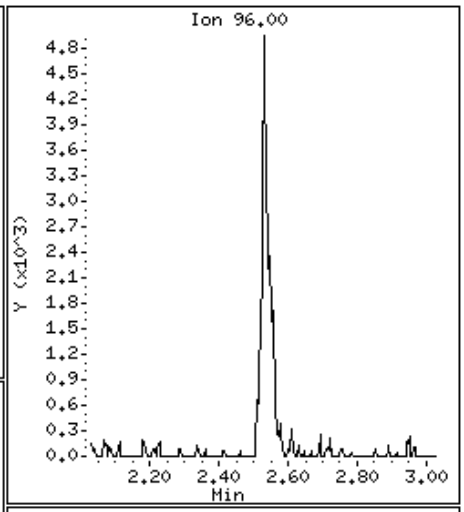
20 trans-1,2-Dichloroethene Concentration: 12.93 ug/l

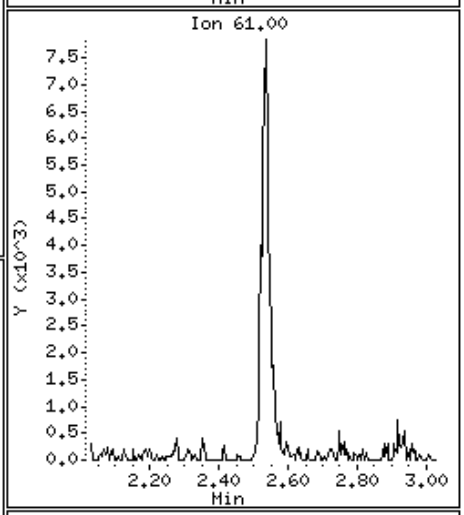


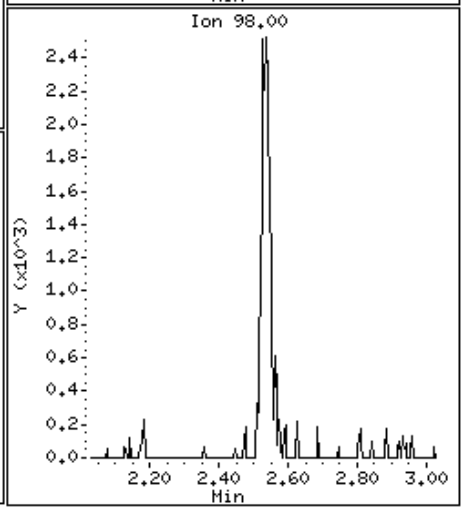












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Inj Date : 18-JUL-2023 05:20
InstruID : voa6.i
LabSampID : HS23070658-02

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230717.b\Y071724.D Page 1
Report Date: 20-Jul-2023 15:03

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230717.b\Y071724.D
Lab Smp Id: HS23070658-02 Client Smp ID: HS23070658-02
Inj Date : 18-JUL-2023 05:40
Operator : PC Inst ID: voa6.i
Smp Info : HS23070658-02;HS23070658-02;;;
Misc Info : V6;WATER;0;100;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230717.b\8260W.m
Meth Date : 20-Jul-2023 15:02 voa6.i Quant Type: ISTD
Cal Date : 14-JUL-2023 14:24 Cal File: X071408.D
Als bottle: 53
Dil Factor: 100.00000
Integrator: HP RTE Compound Sublist: 0474-dod.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	100.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.181	4.177	(1.000)	636141	50.0000	
$ 30 Dibromofluoromethane	113	4.099	4.099	(0.980)	309932	53.2071	53.20
$ 35 1,2-Dichloroethane-d4	65	4.474	4.470	(1.070)	381944	52.4156	52.41
* 36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	969115	50.0000	
* 47 Chlorobenzene-d5	117	7.668	7.667	(1.000)	869043	50.0000	
$ 48 Toluene-d8	98	6.386	6.385	(0.833)	1129958	50.5005	50.50
$ 69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	406272	46.9263	46.92
* 70 1,4-Dichlorobenzene-d4	152	9.662	9.658	(1.000)	419080	50.0000	
5 Vinyl Chloride	62	1.145	1.145	(0.274)	74145	9.00698	900.69
27 cis-1,2-Dichloroethene	96	3.529	3.529	(0.844)	276249	40.2261	4022.60
38 Trichloroethene	130	5.205	5.205	(1.048)	410370	62.5872	6258.71

01321045

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230717.b\Y071724.D

Date : 18-JUL-2023 05:40

Client ID: HS23070658-02

Instrument: voa6.i

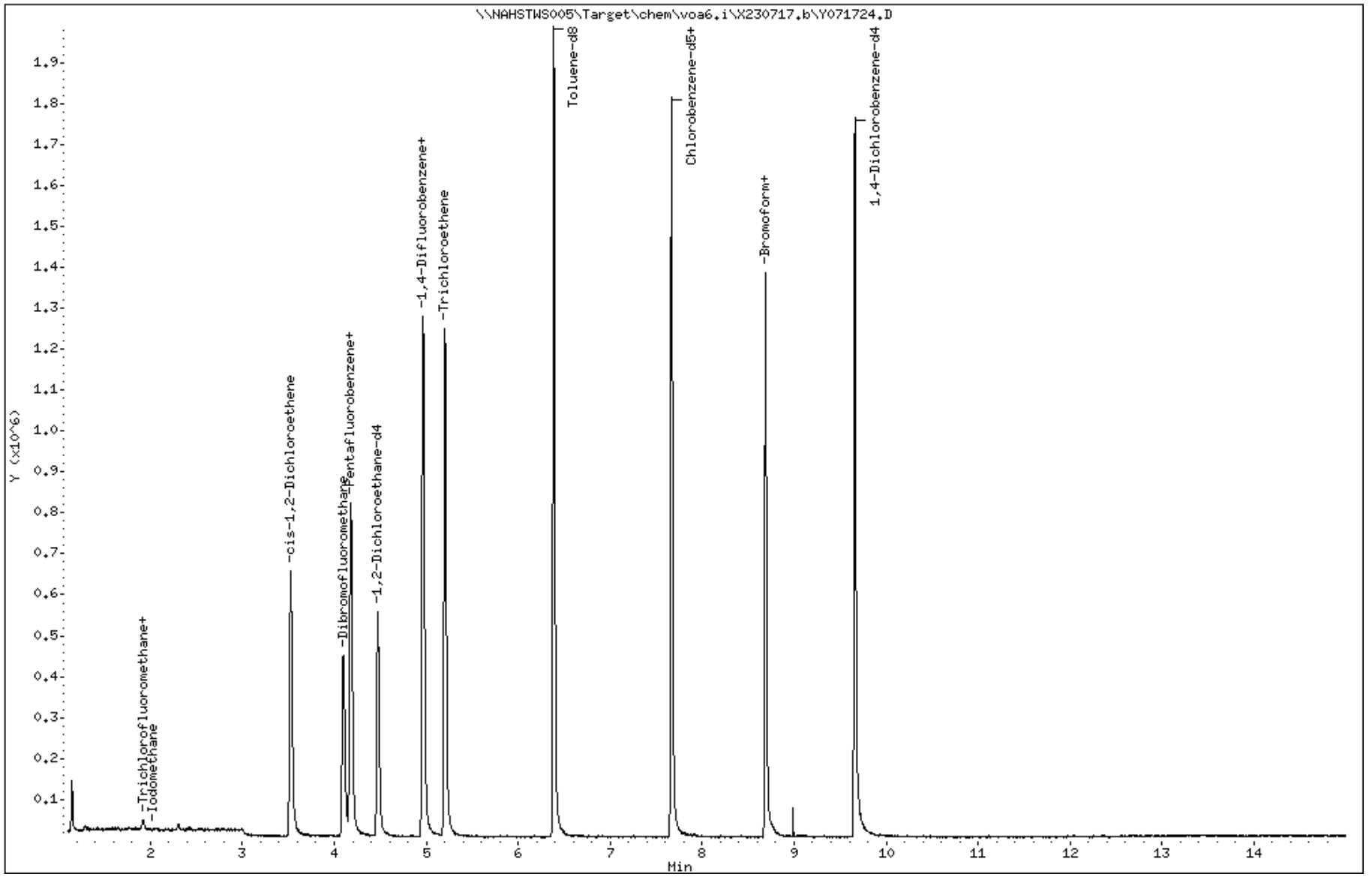
Sample Info: HS23070658-02;HS23070658-02;;;

Purge Volume: 5.0

Operator: PC

Column phase: DB624

Column diameter: 0.18



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Date : 18-JUL-2023 05:40

Client ID: HS23070658-02

Instrument: voa6.i

Sample Info: HS23070658-02;HS23070658-02;;;

Purge Volume: 5.0

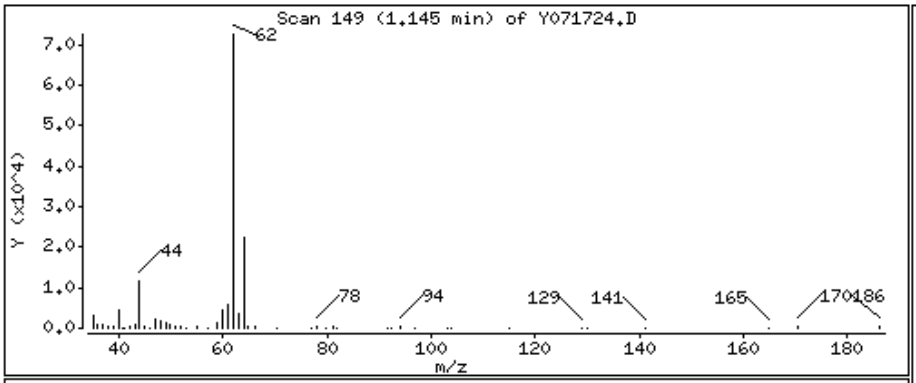
Operator: PC

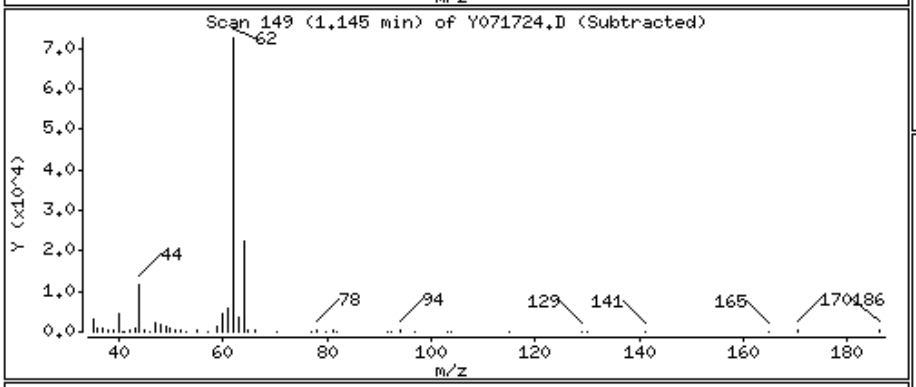
Column phase: DB624

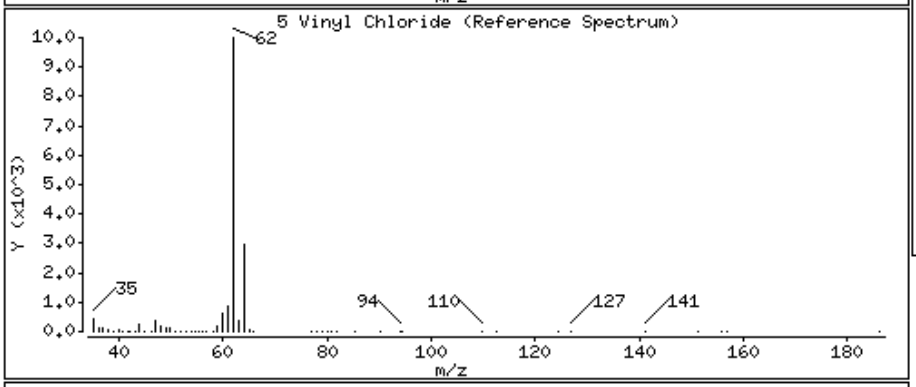
Column diameter: 0.18

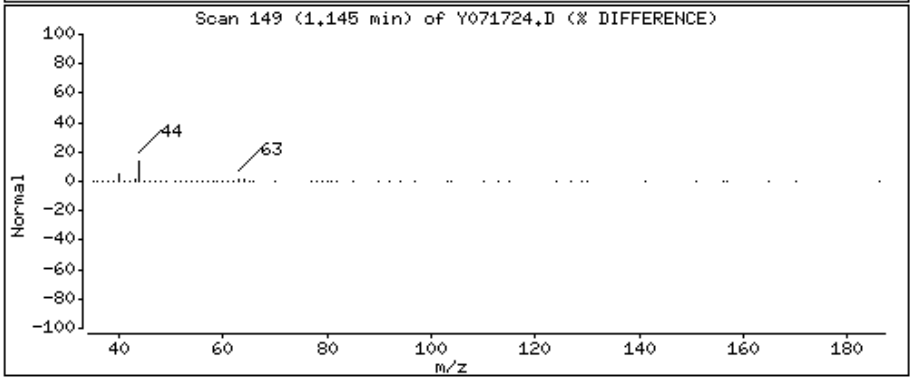
5 Vinyl Chloride

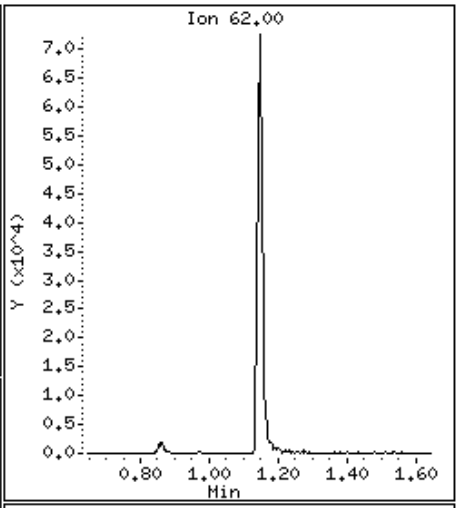
Concentration: 900.69 ug/l

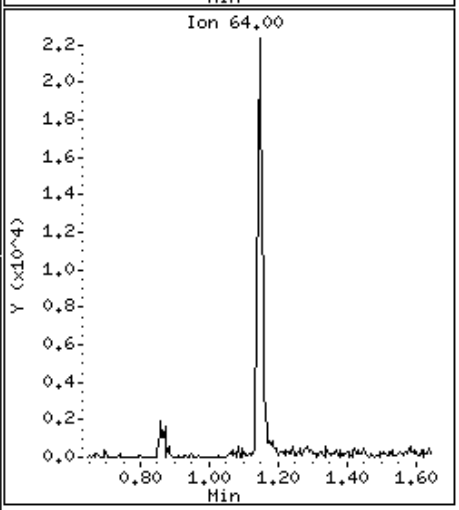












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Date : 18-JUL-2023 05:40

Client ID: HS23070658-02

Instrument: voa6.i

Sample Info: HS23070658-02;HS23070658-02;;;

Purge Volume: 5.0

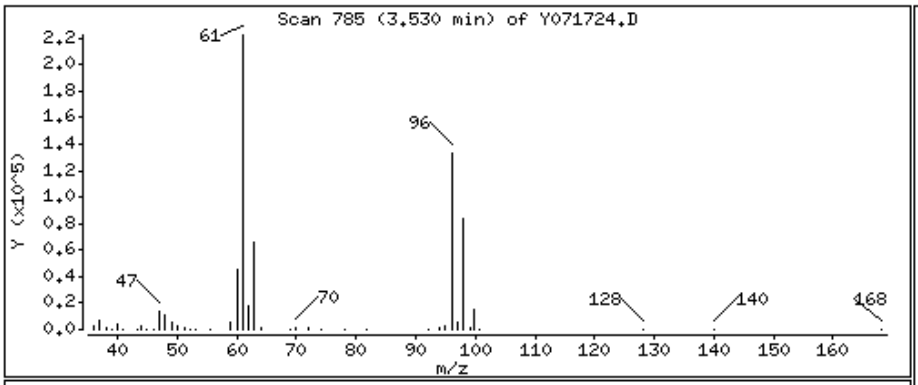
Operator: PC

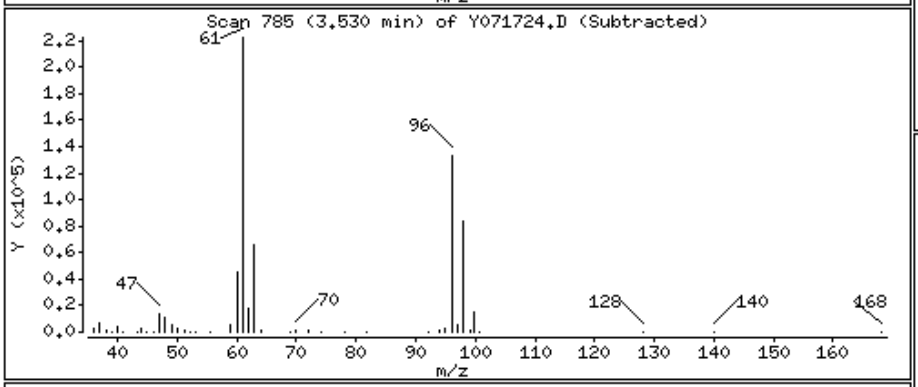
Column phase: DB624

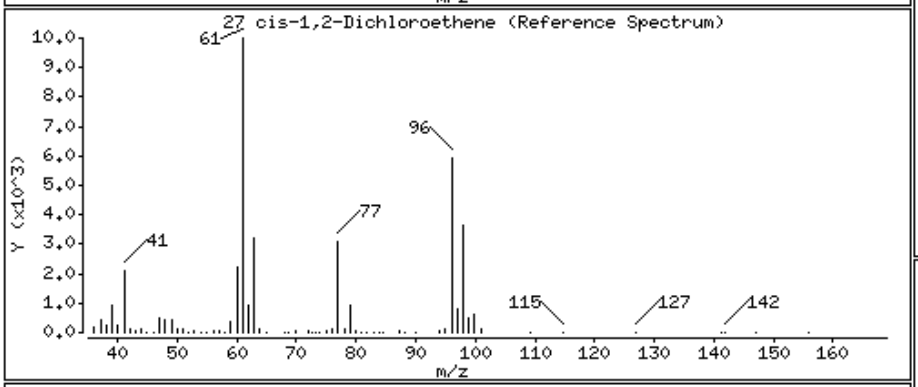
Column diameter: 0.18

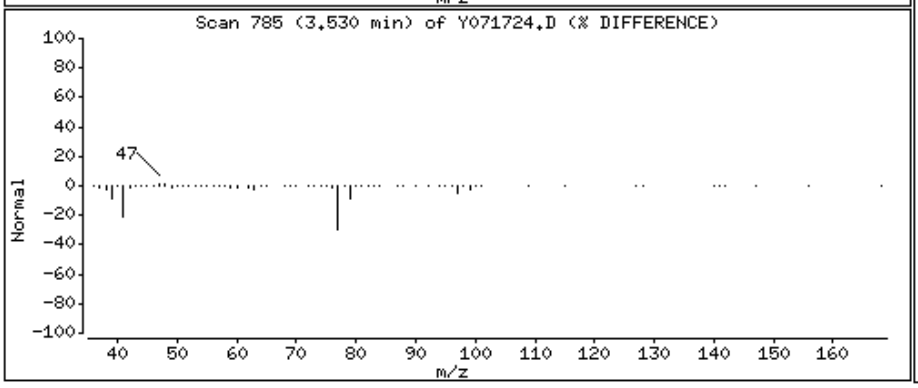
27 cis-1,2-Dichloroethene

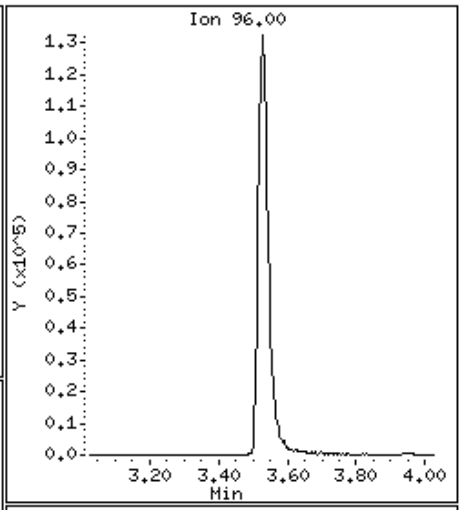
Concentration: 4022.60 ug/l

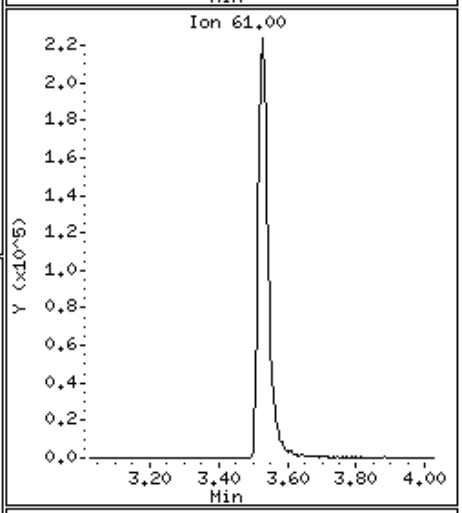


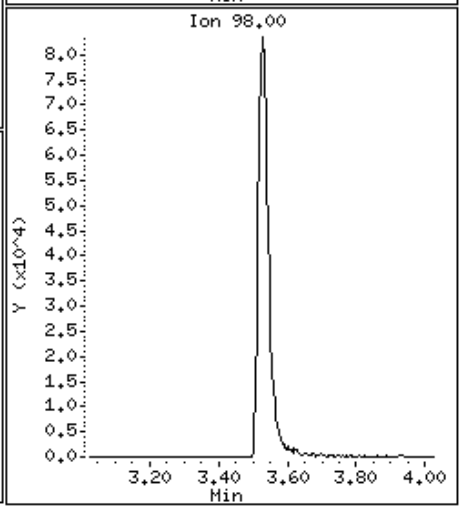












Data File: \\NAHSTWS005\Target\chem\voa6.i\X230717.b\Y071724.D

Date : 18-JUL-2023 05:40

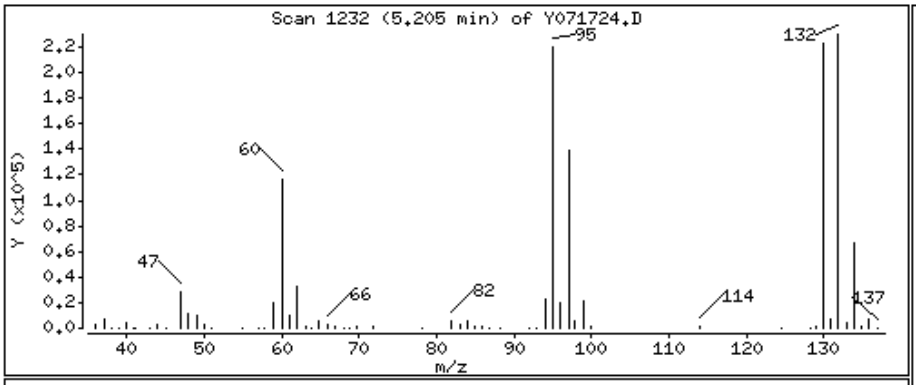
Client ID: HS23070658-02 Instrument: voa6.i

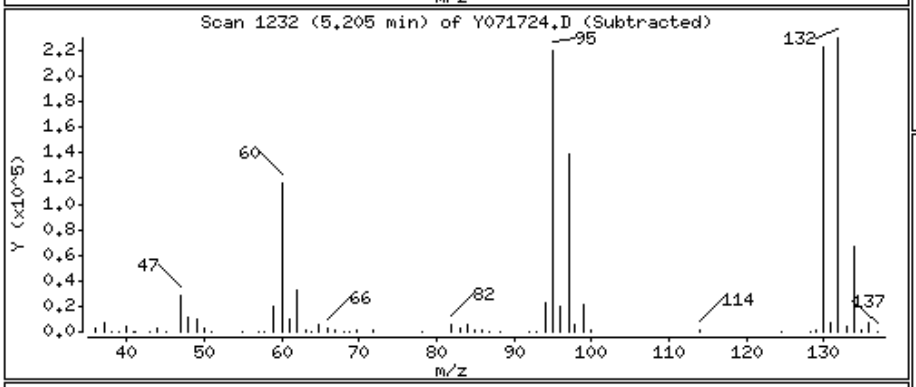
Sample Info: HS23070658-02;HS23070658-02;;;

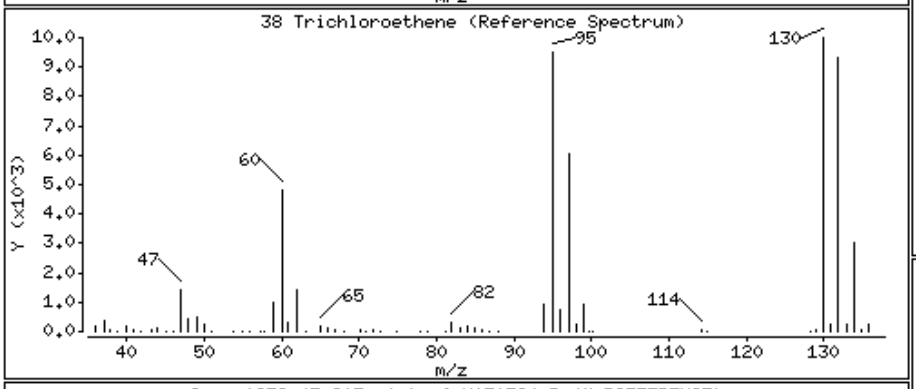
Purge Volume: 5.0 Operator: PC

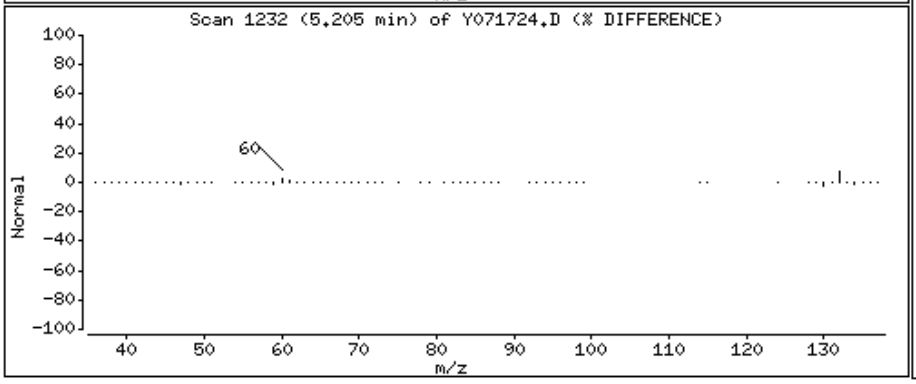
Column phase: DB624 Column diameter: 0.18

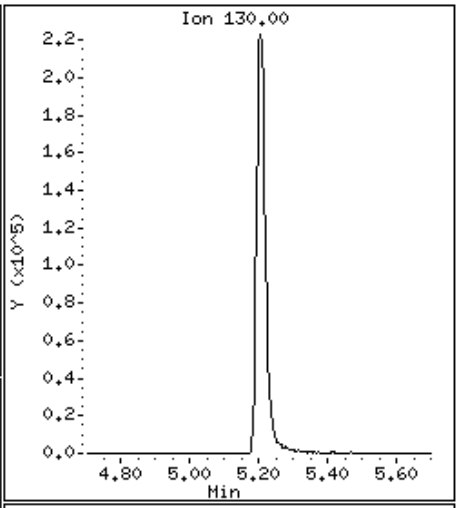
38 Trichloroethene Concentration: 6258.71 ug/l

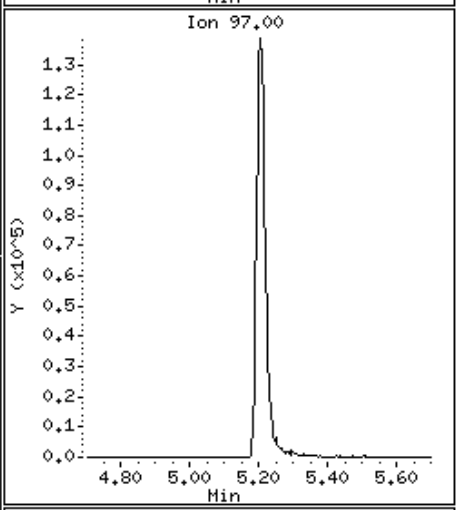


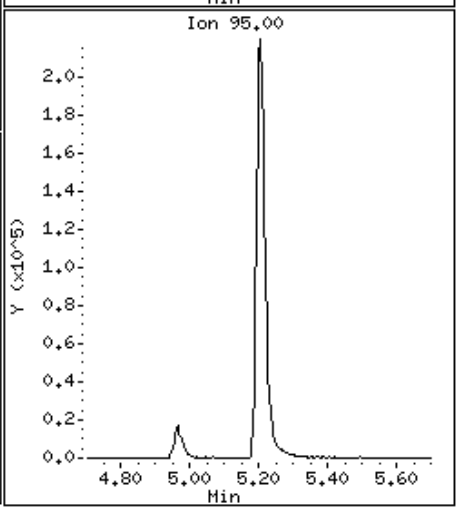












Data File : \\NAHSTWS005\Target\chem\voa6.i\X230717.b\Y071724.D
Inj Date : 18-JUL-2023 05:40
InstruID : voa6.i
LabSampID : HS23070658-02

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230717.b\Y071725.D Page 1
Report Date: 20-Jul-2023 15:03

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230717.b\Y071725.D
Lab Smp Id: HS23070658-07 Client Smp ID: HS23070658-07
Inj Date : 18-JUL-2023 06:01
Operator : PC Inst ID: voa6.i
Smp Info : HS23070658-07;HS23070658-07;;;
Misc Info : V6;WATER;0;50;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230717.b\8260W.m
Meth Date : 20-Jul-2023 15:02 voa6.i Quant Type: ISTD
Cal Date : 14-JUL-2023 14:24 Cal File: X071408.D
Als bottle: 54
Dil Factor: 50.00000
Integrator: HP RTE Compound Sublist: 0474-dod.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	50.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.181	4.177	(1.000)	635889	50.0000	
$ 30 Dibromofluoromethane	113	4.095	4.099	(0.979)	308056	52.9017	52.90
$ 35 1,2-Dichloroethane-d4	65	4.470	4.470	(1.069)	382134	52.4631	52.46
* 36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	968791	50.0000	
* 47 Chlorobenzene-d5	117	7.668	7.667	(1.000)	863019	50.0000	
$ 48 Toluene-d8	98	6.385	6.385	(0.833)	1128514	50.7880	50.78
$ 69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	408222	47.4857	47.48
* 70 1,4-Dichlorobenzene-d4	152	9.662	9.658	(1.000)	425398	50.0000	
5 Vinyl Chloride	62	1.145	1.145	(0.274)	41690	5.06642	253.32
11 1,1-Dichloroethene	96	1.913	1.917	(0.458)	17730	3.80588	190.29(a)
27 cis-1,2-Dichloroethene	96	3.525	3.529	(0.843)	2036040	296.596	14829.79(A)
38 Trichloroethene	130	5.205	5.205	(1.048)	2539866	387.495	19374.73(A)

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
    exceeded maximum amount.

01321051

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230717.b\Y071725.D

Page 1

Date : 18-JUL-2023 06:01

Client ID: HS23070658-07

Instrument: voa6.i

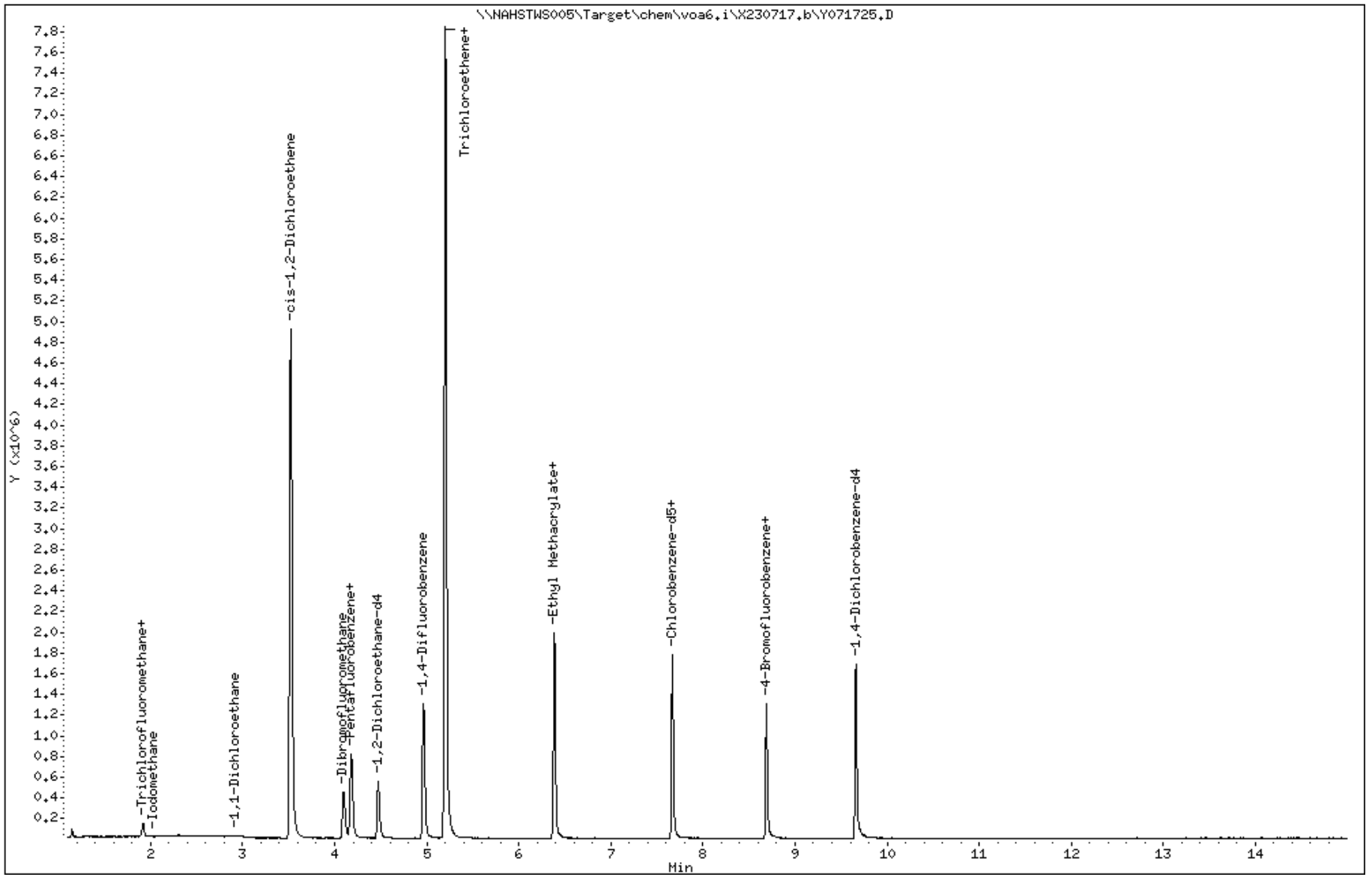
Sample Info: HS23070658-07;HS23070658-07;;;

Purge Volume: 5.0

Operator: PC

Column phase: DB624

Column diameter: 0.18



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Date : 18-JUL-2023 06:01

Client ID: HS23070658-07

Instrument: voa6.i

Sample Info: HS23070658-07;HS23070658-07;;;

Purge Volume: 5.0

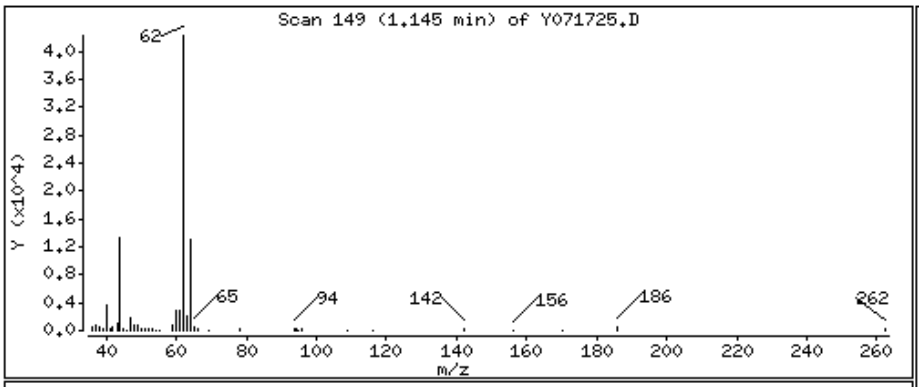
Operator: PC

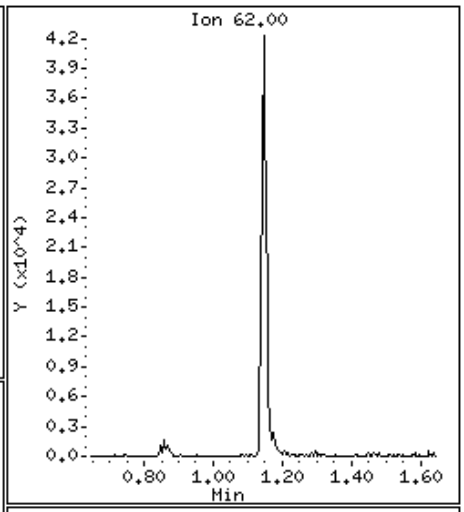
Column phase: DB624

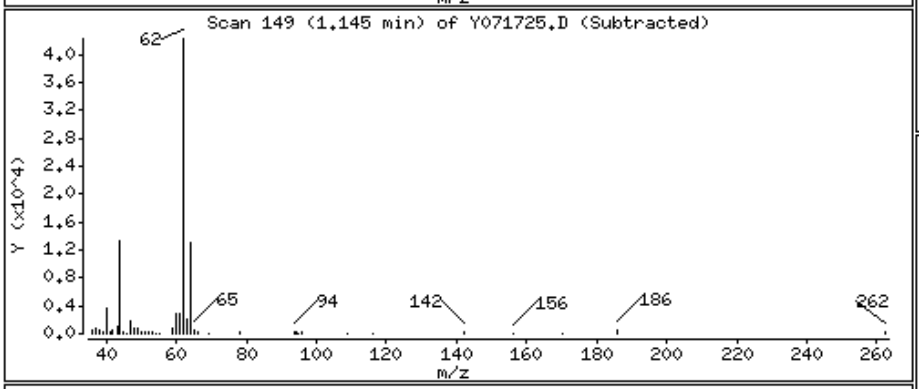
Column diameter: 0.18

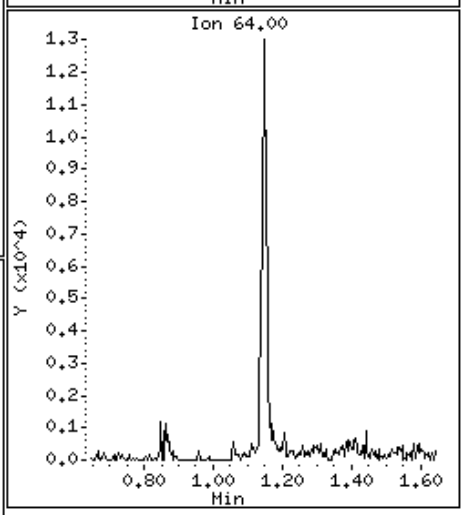
5 Vinyl Chloride

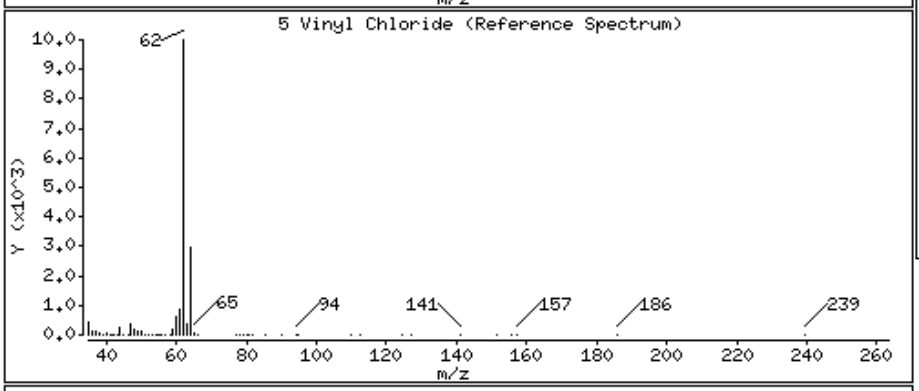
Concentration: 253.32 ug/l

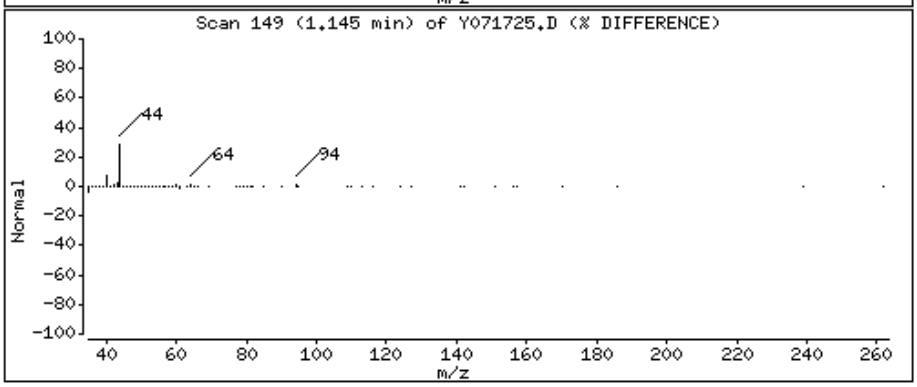












Data File: \\NAHSTWS005\Target\chem\voa6.i\X230717.b\Y071725.D Page 3

Date : 18-JUL-2023 06:01

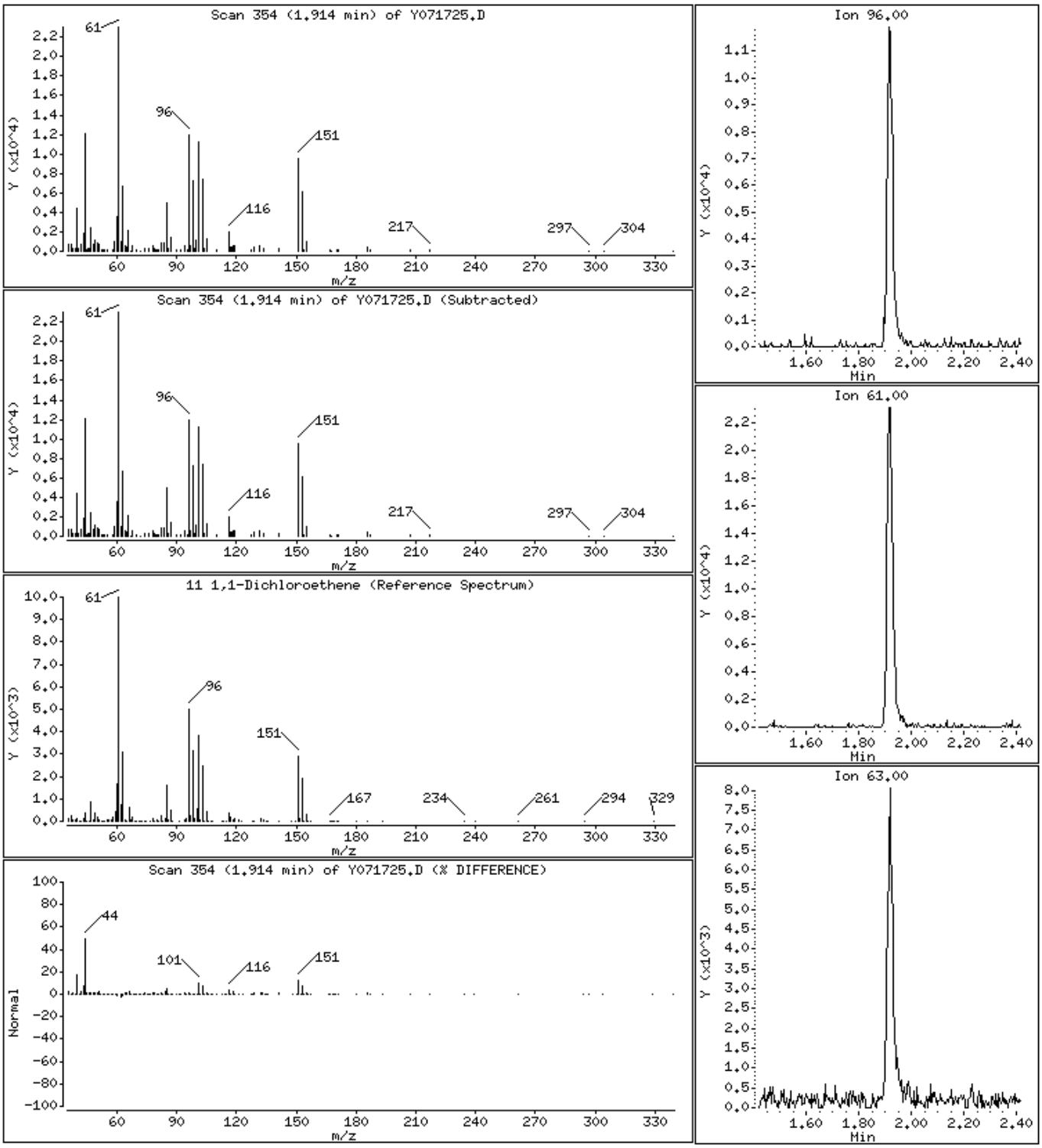
Client ID: HS23070658-07 Instrument: voa6.i

Sample Info: HS23070658-07;HS23070658-07;;;

Purge Volume: 5.0 Operator: PC

Column phase: DB624 Column diameter: 0.18

11 1,1-Dichloroethene Concentration: 190.29 ug/l



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230717.b\Y071725.D Page 4

Date : 18-JUL-2023 06:01

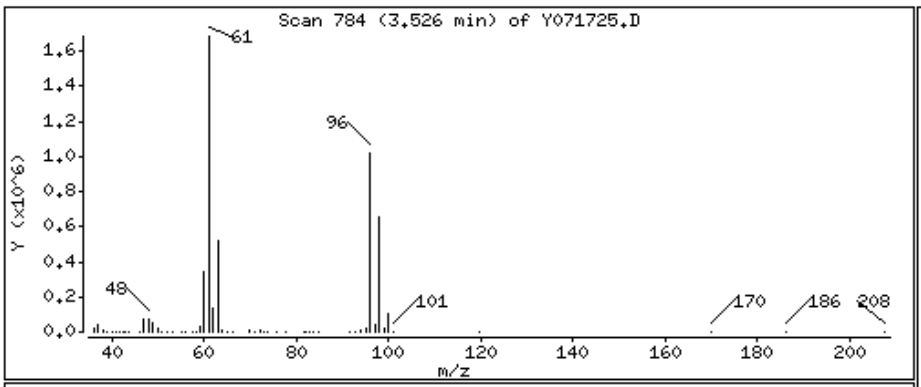
Client ID: HS23070658-07 Instrument: voa6.i

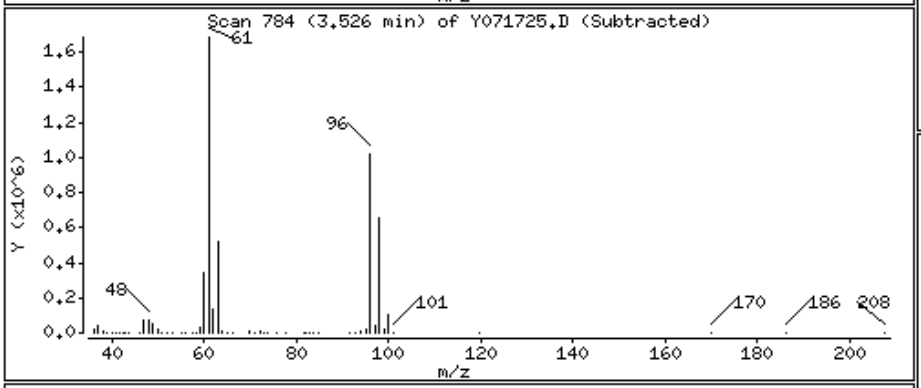
Sample Info: HS23070658-07;HS23070658-07;;;

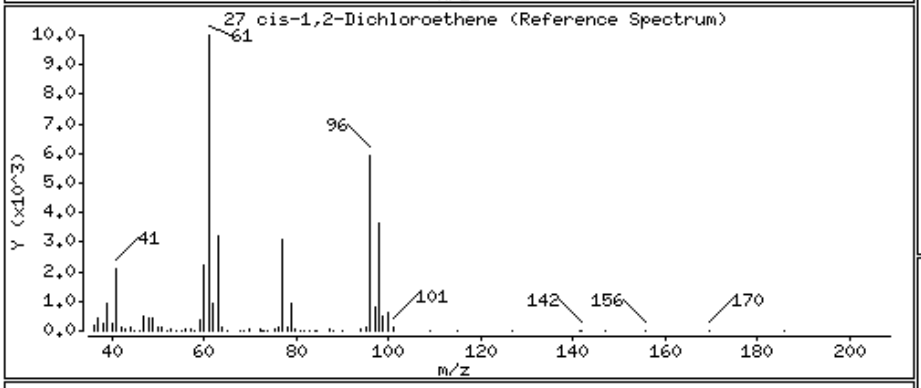
Purge Volume: 5.0 Operator: PC

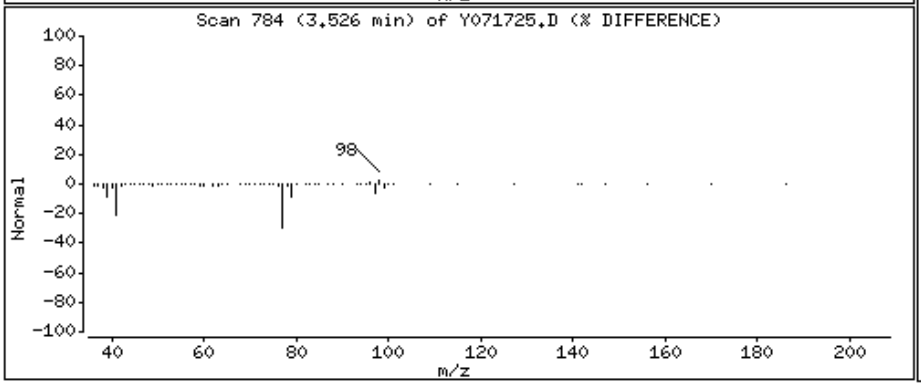
Column phase: DB624 Column diameter: 0.18

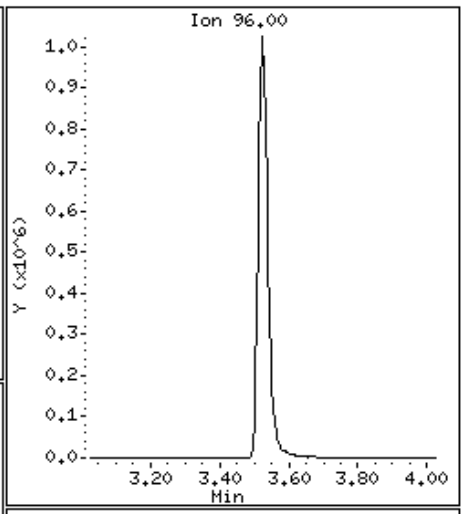
27 cis-1,2-Dichloroethene Concentration: 14829.79 ug/l

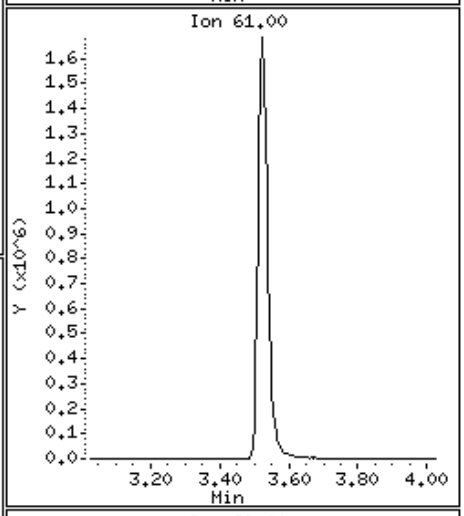


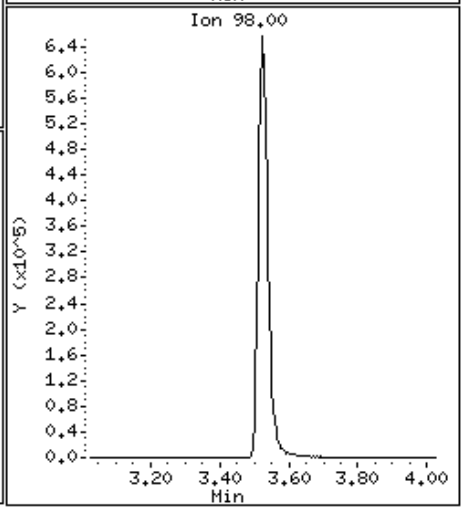












Data File: \\NAHSTWS005\Target\chem\voa6.i\X230717.b\Y071725.D Page 5

Date : 18-JUL-2023 06:01

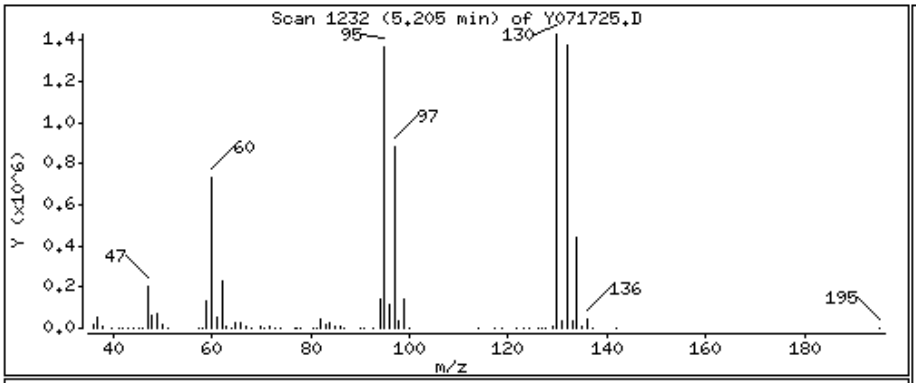
Client ID: HS23070658-07 Instrument: voa6.i

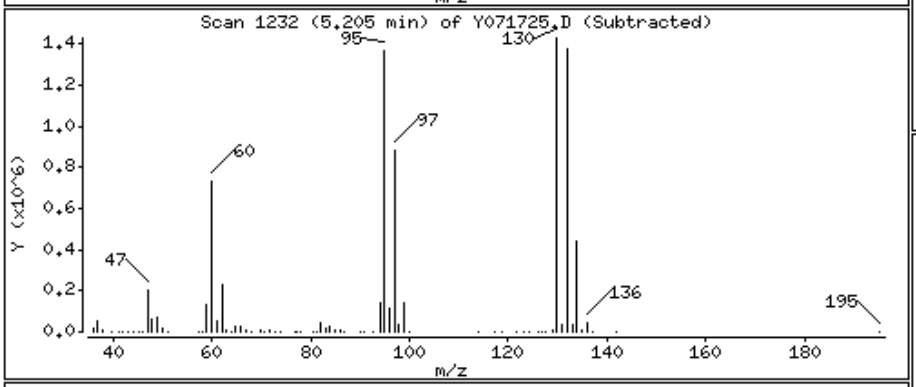
Sample Info: HS23070658-07;HS23070658-07;;;

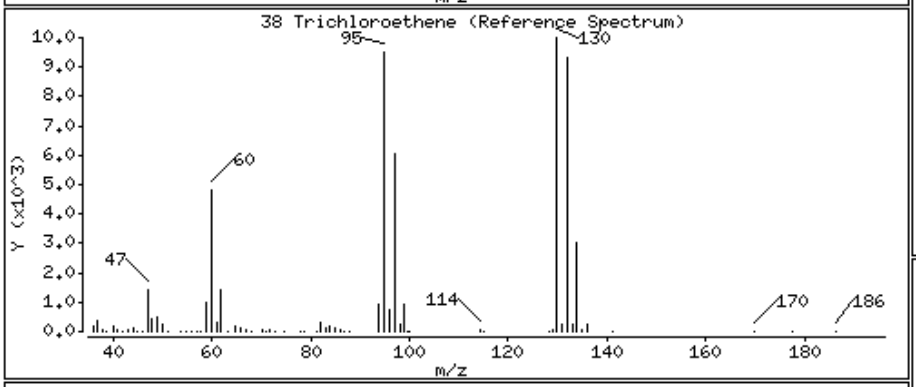
Purge Volume: 5.0 Operator: PC

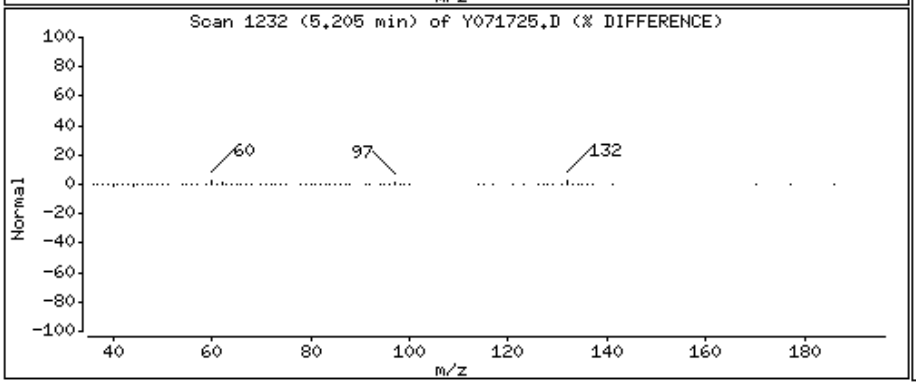
Column phase: DB624 Column diameter: 0.18

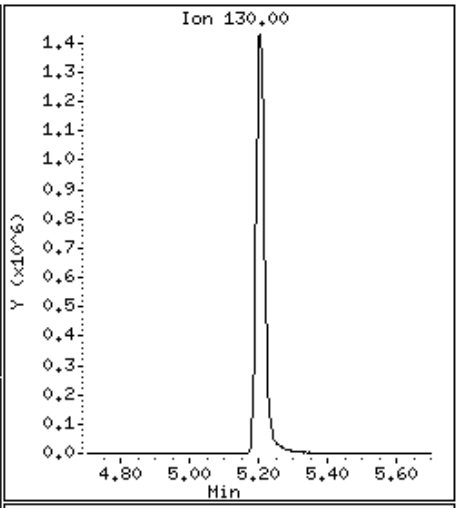
38 Trichloroethene Concentration: 19374.73 ug/l

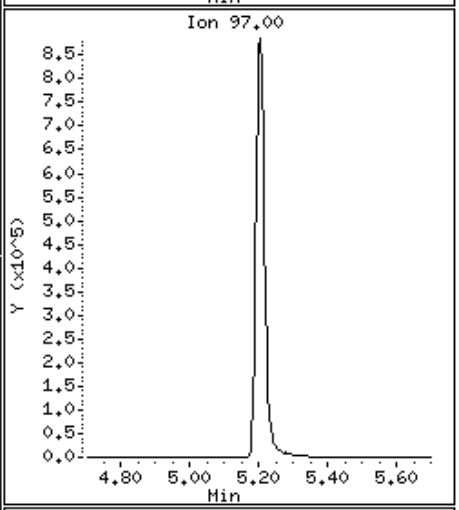


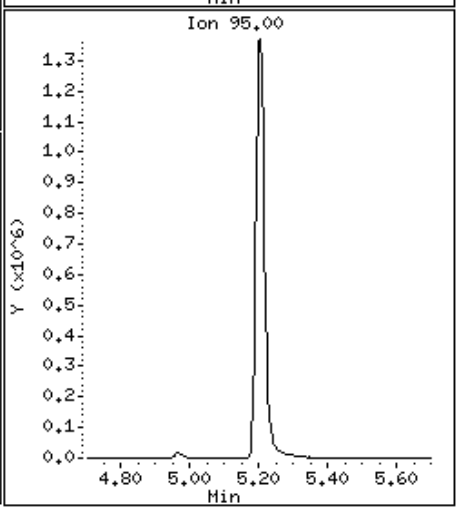












Data File : \\NAHSTWS005\Target\chem\voa6.i\X230717.b\Y071725.D
Inj Date : 18-JUL-2023 06:01
InstruID : voa6.i
LabSampID : HS23070658-07

NO MANUAL INTEGRATIONS

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230717.b\Y071726.D
Lab Smp Id: HS23070658-07 Client Smp ID: HS23070658-07
Inj Date : 18-JUL-2023 06:21
Operator : PC Inst ID: voa6.i
Smp Info : HS23070658-07;HS23070658-07;;;
Misc Info : V6;WATER;0;500;
Comment :
Method : \\NAHSTWS005\Target\chem\voa6.i\X230717.b\8260W.m
Meth Date : 20-Jul-2023 15:02 voa6.i Quant Type: ISTD
Cal Date : 14-JUL-2023 14:24 Cal File: X071408.D
Als bottle: 55
Dil Factor: 500.00000
Integrator: HP RTE Compound Sublist: 0474-dod.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	500.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.181	4.177	(1.000)	633385	50.0000	
$ 30 Dibromofluoromethane	113	4.099	4.099	(0.980)	305068	52.5913	52.59
$ 35 1,2-Dichloroethane-d4	65	4.470	4.470	(1.069)	382184	52.6799	52.67
* 36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	970593	50.0000	
* 47 Chlorobenzene-d5	117	7.668	7.667	(1.000)	841911	50.0000	
$ 48 Toluene-d8	98	6.386	6.385	(0.833)	1130350	52.1460	52.14
$ 69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	402571	48.0071	48.00
* 70 1,4-Dichlorobenzene-d4	152	9.662	9.658	(1.000)	425008	50.0000	
5 Vinyl Chloride	62	1.145	1.145	(0.274)	5898	0.71959	359.79(a)
27 cis-1,2-Dichloroethene	96	3.525	3.529	(0.843)	247845	36.2470	18123.51
38 Trichloroethene	130	5.205	5.205	(1.048)	302503	46.0657	23032.85

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

01321058

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230717.b\Y071726.D

Date : 18-JUL-2023 06:21

Client ID: HS23070658-07

Instrument: voa6.i

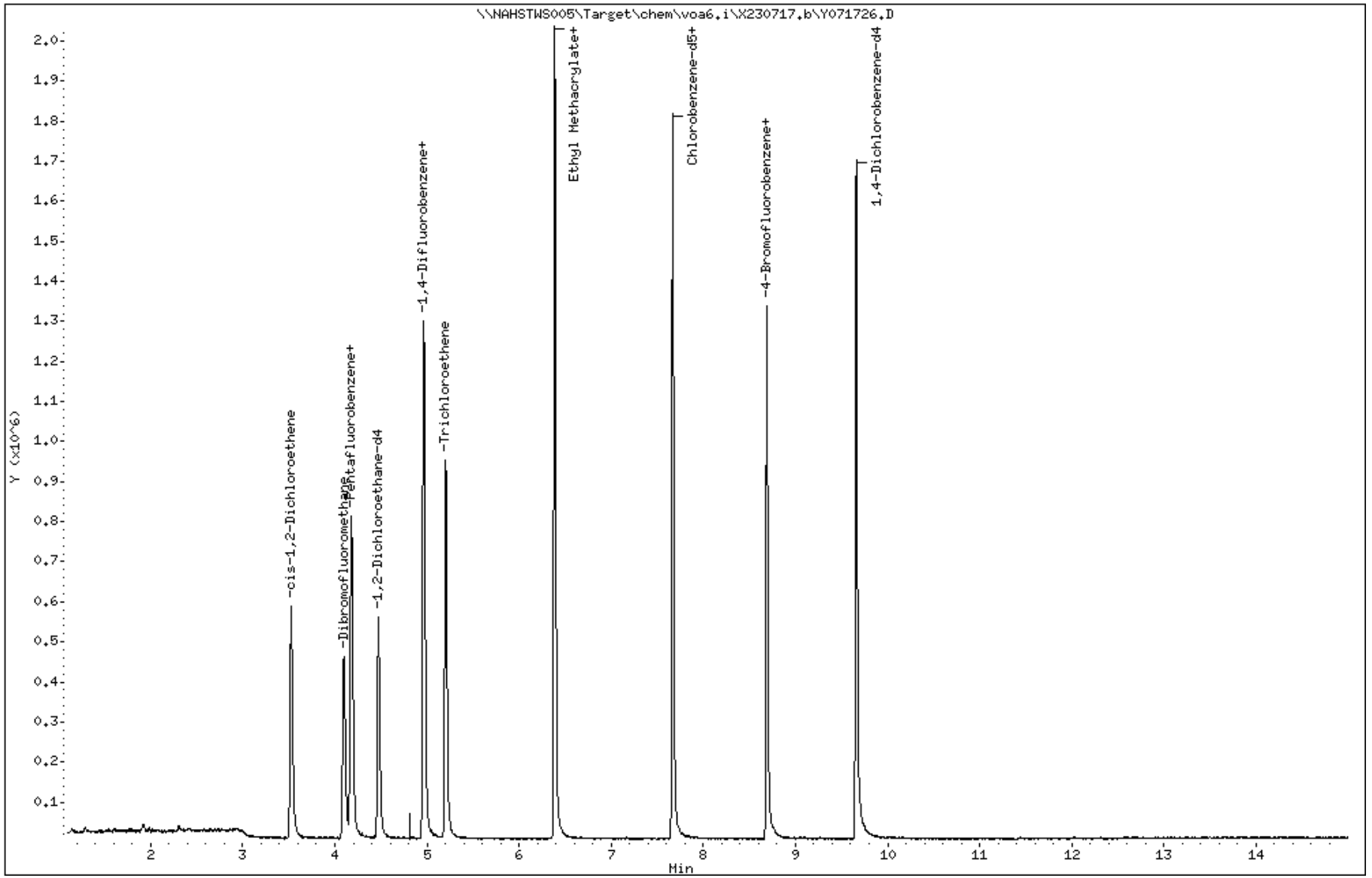
Sample Info: HS23070658-07;HS23070658-07;;;

Purge Volume: 5.0

Operator: PC

Column phase: DB624

Column diameter: 0.18



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Date : 18-JUL-2023 06:21

Client ID: HS23070658-07

Instrument: voa6.i

Sample Info: HS23070658-07;HS23070658-07;;;

Purge Volume: 5.0

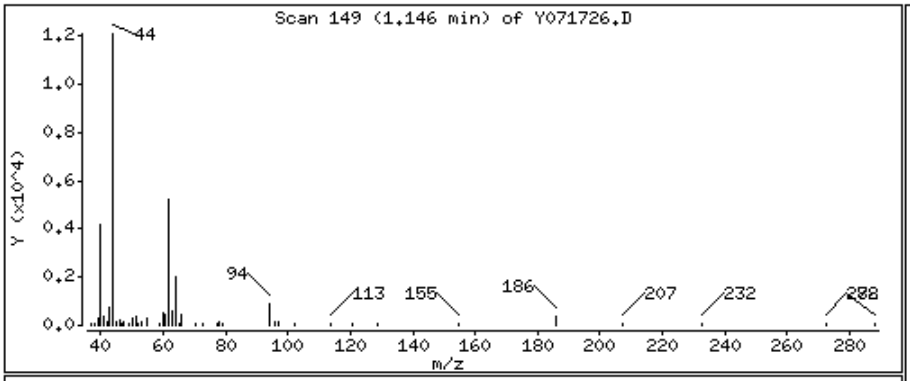
Operator: PC

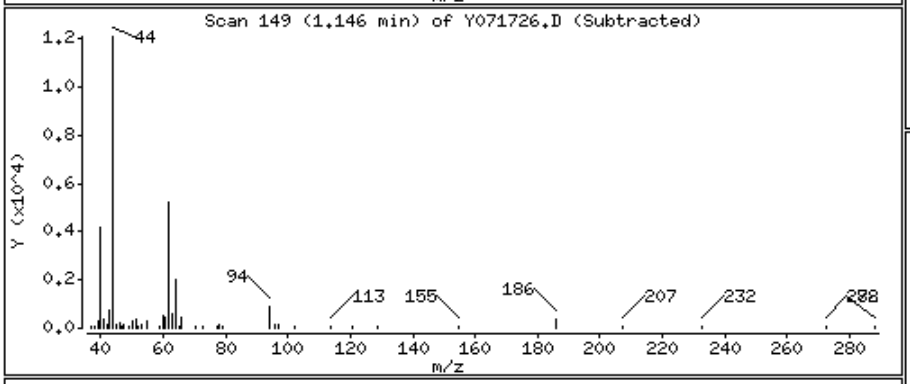
Column phase: DB624

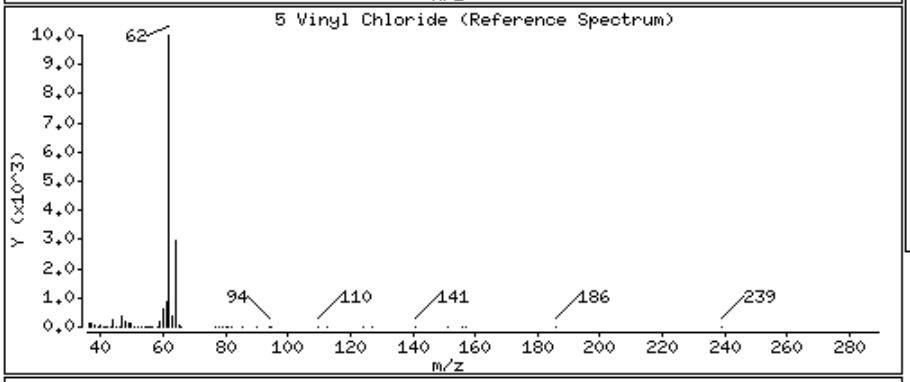
Column diameter: 0.18

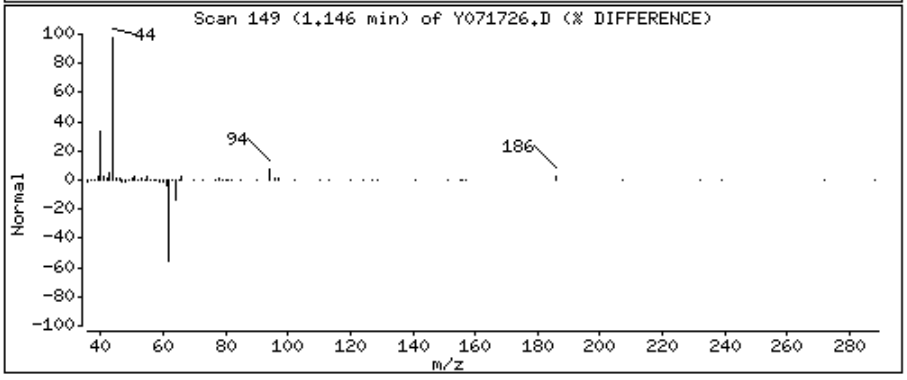
5 Vinyl Chloride

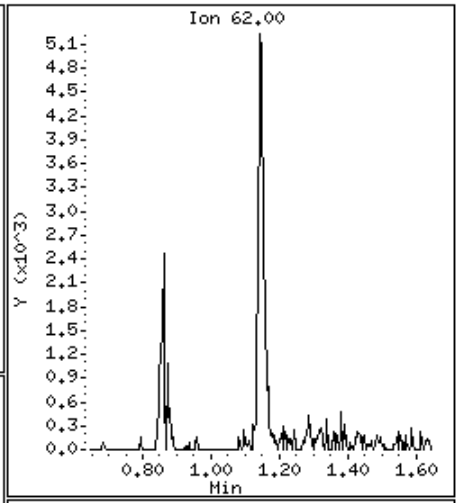
Concentration: 359.79 ug/l

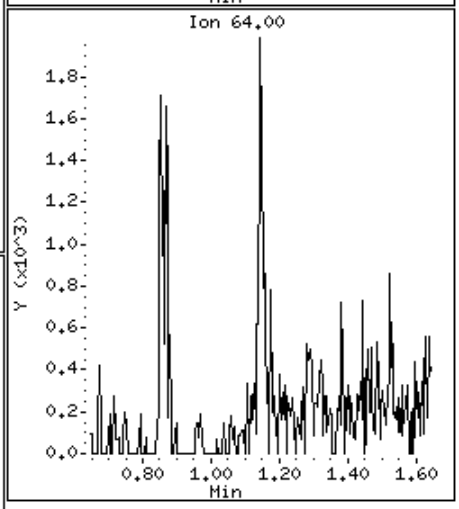












Data File: \\NAHSTWS005\Target\chem\voa6.i\X230717.b\Y071726.D

Date : 18-JUL-2023 06:21

Client ID: HS23070658-07

Instrument: voa6.i

Sample Info: HS23070658-07;HS23070658-07;;;

Purge Volume: 5.0

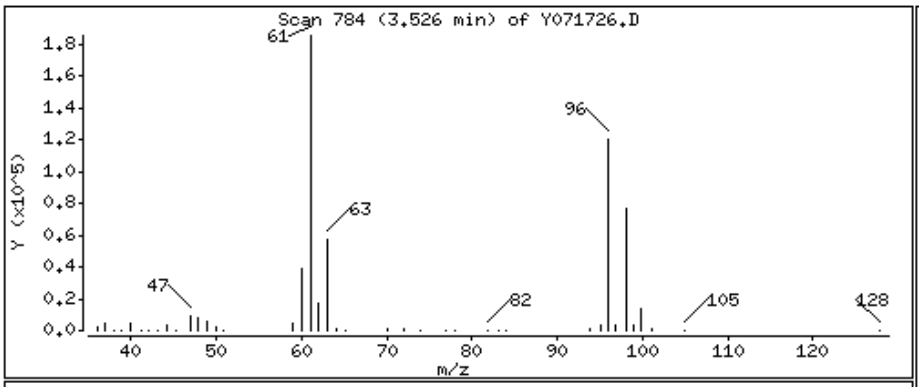
Operator: PC

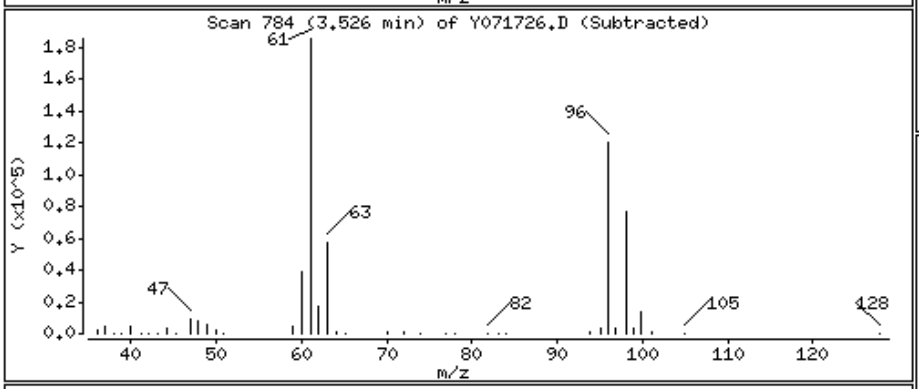
Column phase: DB624

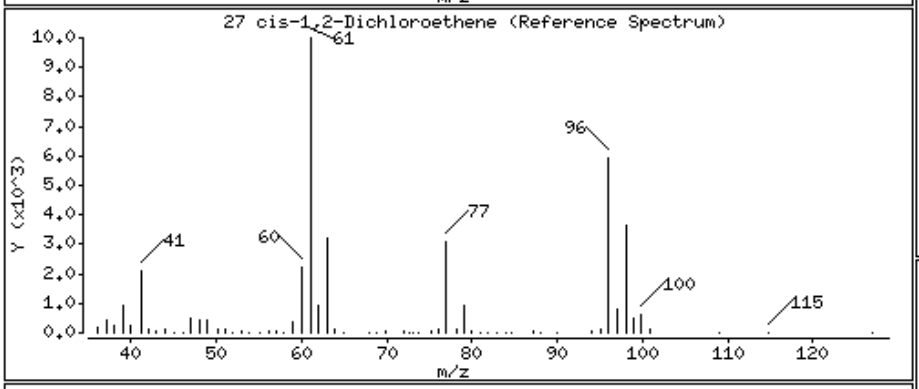
Column diameter: 0.18

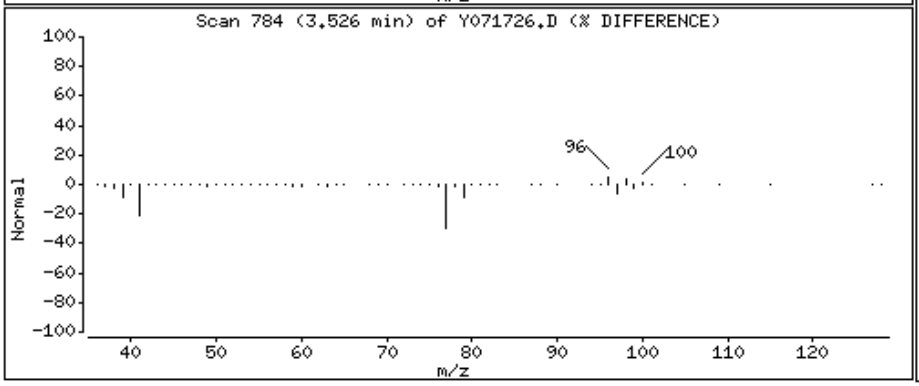
27 cis-1,2-Dichloroethene

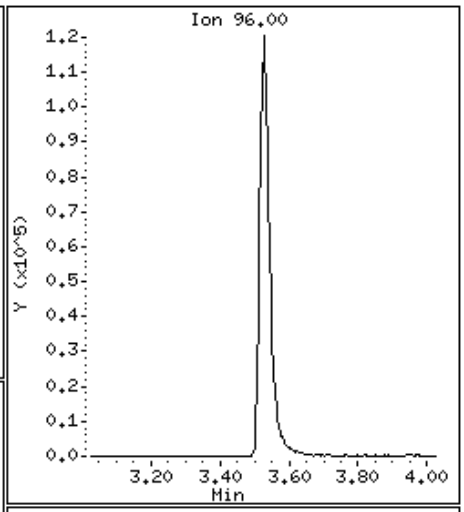
Concentration: 18123.51 ug/l

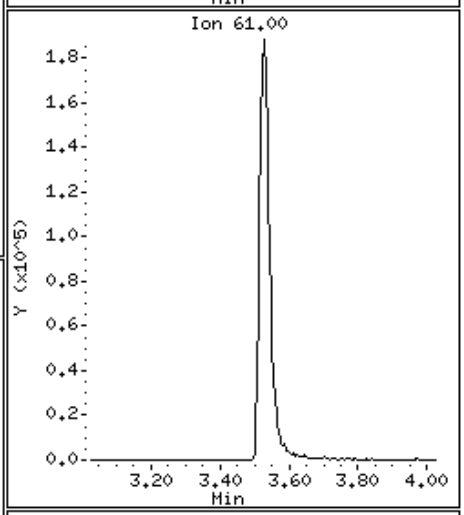


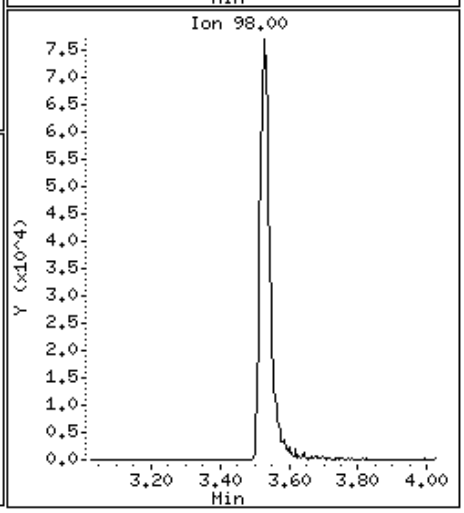












Data File: \\NAHSTWS005\Target\chem\voa6.i\X230717.b\Y071726.D

Date : 18-JUL-2023 06:21

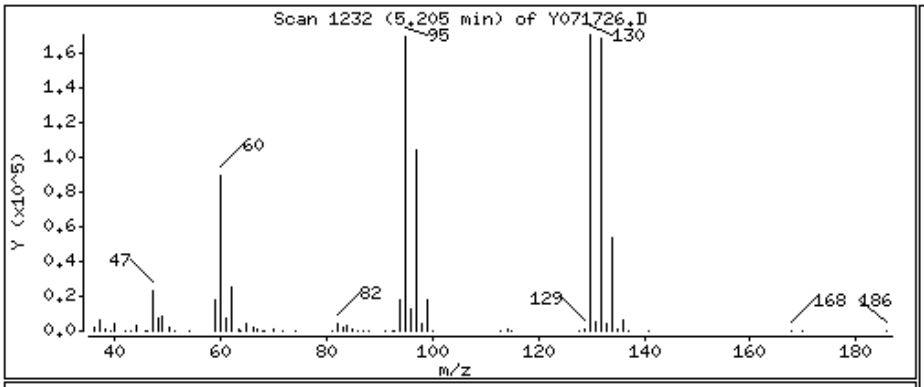
Client ID: HS23070658-07 Instrument: voa6.i

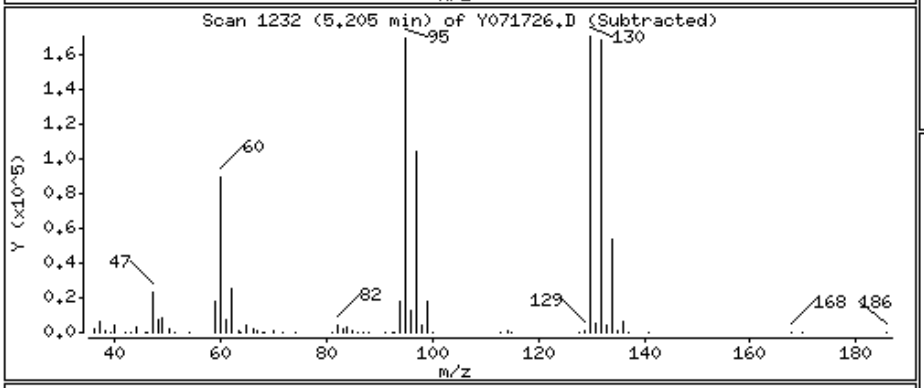
Sample Info: HS23070658-07;HS23070658-07;;;

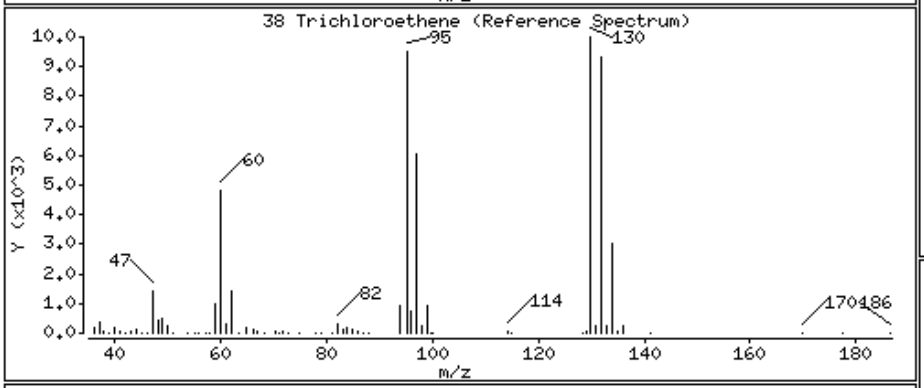
Purge Volume: 5.0 Operator: PC

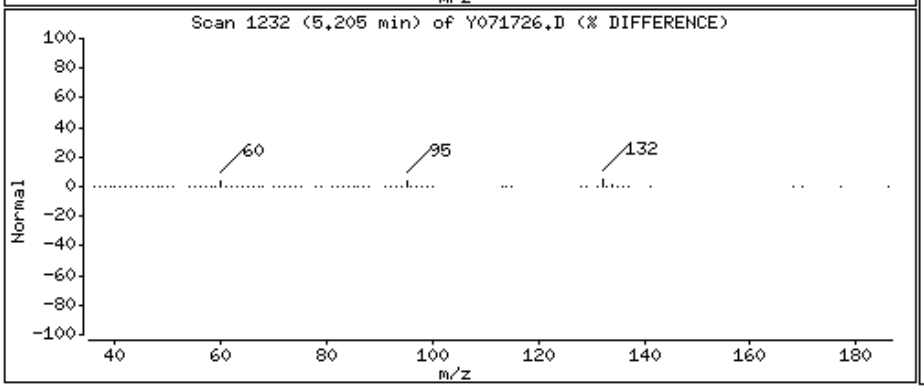
Column phase: DB624 Column diameter: 0.18

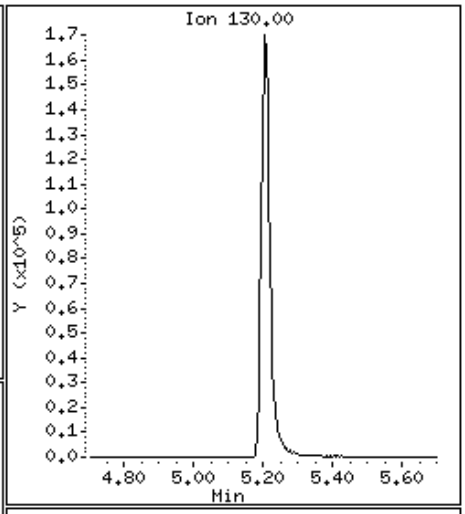
38 Trichloroethene Concentration: 23032.85 ug/l

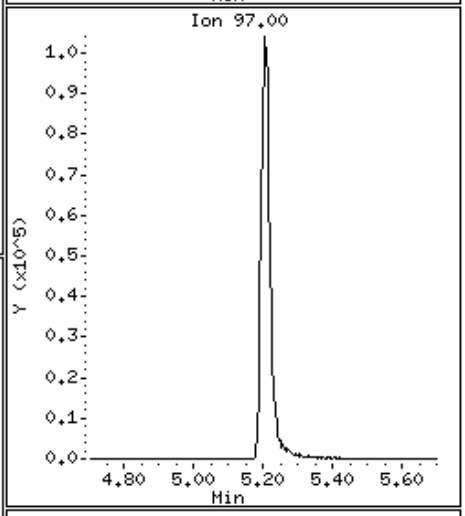


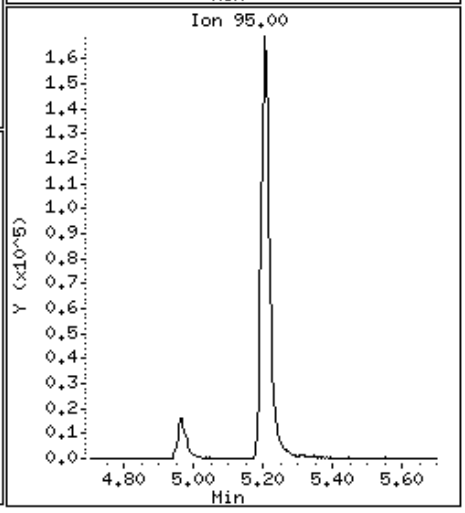












Data File : \\NAHSTWS005\Target\chem\voa6.i\X230717.b\Y071726.D
Inj Date : 18-JUL-2023 06:21
InstruID : voa6.i
LabSampID : HS23070658-07

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230717.b\Y071727.D Page 1
Report Date: 20-Jul-2023 15:03

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230717.b\Y071727.D
Lab Smp Id: HS23070658-03 Client Smp ID: HS23070658-03
Inj Date : 18-JUL-2023 06:42
Operator : PC Inst ID: voa6.i
Smp Info : HS23070658-03;HS23070658-03;;;
Misc Info : V6;WATER;0;100;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230717.b\8260W.m
Meth Date : 20-Jul-2023 15:02 voa6.i Quant Type: ISTD
Cal Date : 14-JUL-2023 14:24 Cal File: X071408.D
Als bottle: 56
Dil Factor: 100.00000
Integrator: HP RTE Compound Sublist: 0474-dod.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	100.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.177	4.177	(1.000)	644102	50.0000	
$ 30 Dibromofluoromethane	113	4.099	4.099	(0.981)	310074	52.5645	52.56
$ 35 1,2-Dichloroethane-d4	65	4.470	4.470	(1.070)	385804	52.2895	52.28
* 36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	978715	50.0000	
* 47 Chlorobenzene-d5	117	7.667	7.667	(1.000)	856043	50.0000	
$ 48 Toluene-d8	98	6.385	6.385	(0.833)	1147524	52.0644	52.06
$ 69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	405334	47.5344	47.53
* 70 1,4-Dichlorobenzene-d4	152	9.662	9.658	(1.000)	443147	50.0000	
5 Vinyl Chloride	62	1.149	1.145	(0.275)	60061	7.20590	720.59
11 1,1-Dichloroethene	96	1.917	1.917	(0.459)	3729	0.79025	79.02(a)
27 cis-1,2-Dichloroethene	96	3.525	3.529	(0.844)	1718275	247.114	24711.44(A)
38 Trichloroethene	130	5.205	5.205	(1.048)	1188397	179.469	17946.94
20 trans-1,2-Dichloroethene	96	2.536	2.528	(0.607)	3279	0.60074	60.07(a)

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount

exceeded maximum amount.

01321065

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230717.b\Y071727.D

Date : 18-JUL-2023 06:42

Client ID: HS23070658-03

Instrument: voa6.i

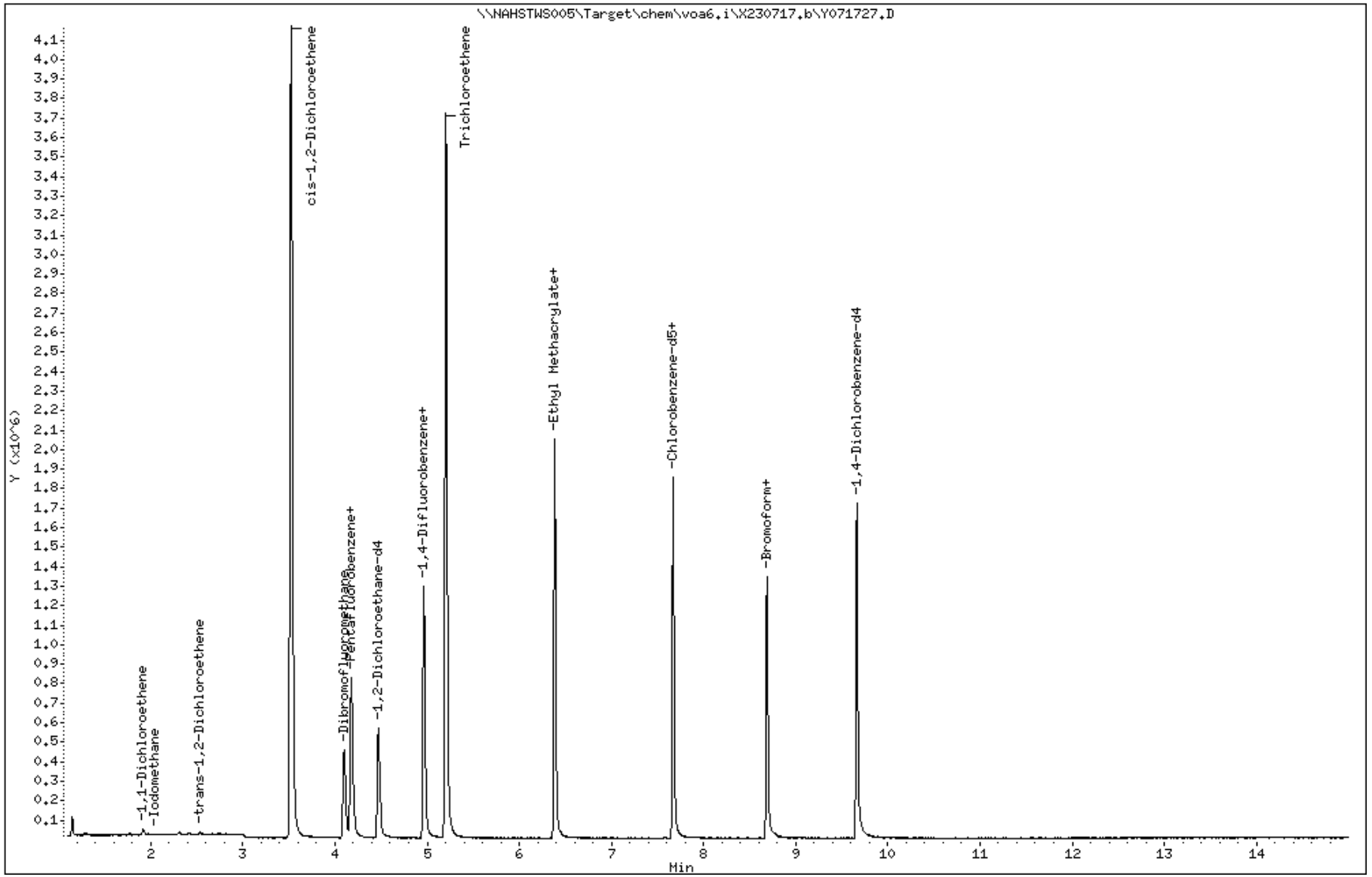
Sample Info: HS23070658-03;HS23070658-03;;;

Purge Volume: 5.0

Operator: PC

Column phase: DB624

Column diameter: 0.18



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230717.b\Y071727.D

Date : 18-JUL-2023 06:42

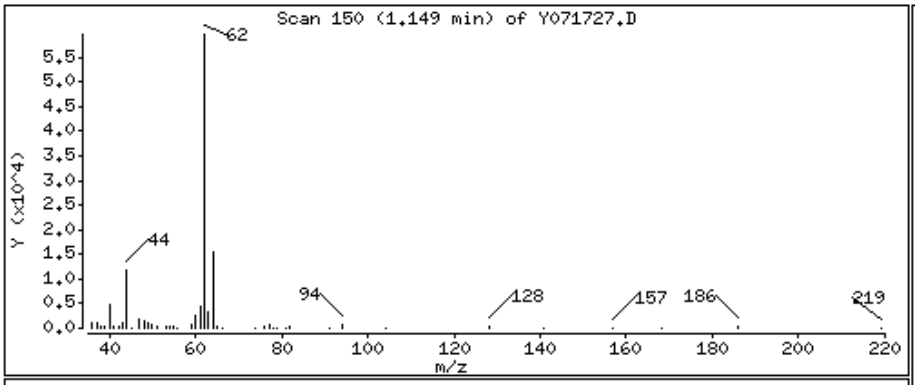
Client ID: HS23070658-03 Instrument: voa6.i

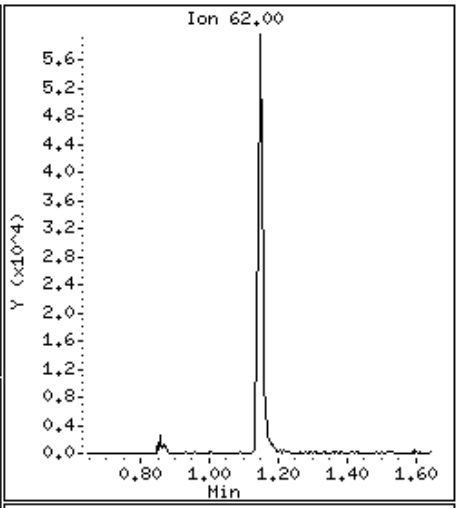
Sample Info: HS23070658-03;HS23070658-03;;;

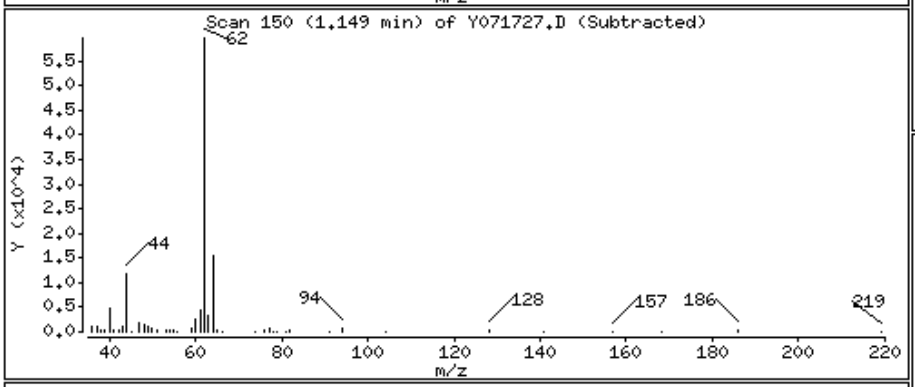
Purge Volume: 5.0 Operator: PC

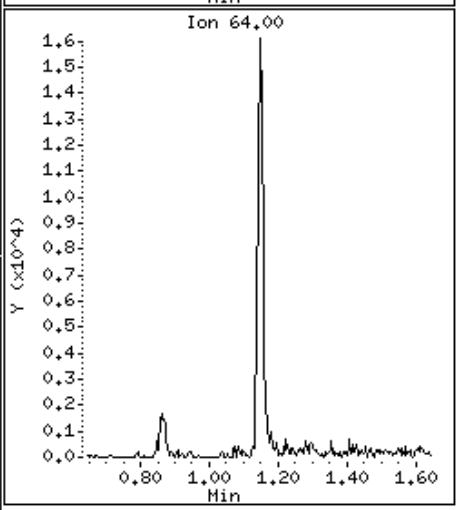
Column phase: DB624 Column diameter: 0.18

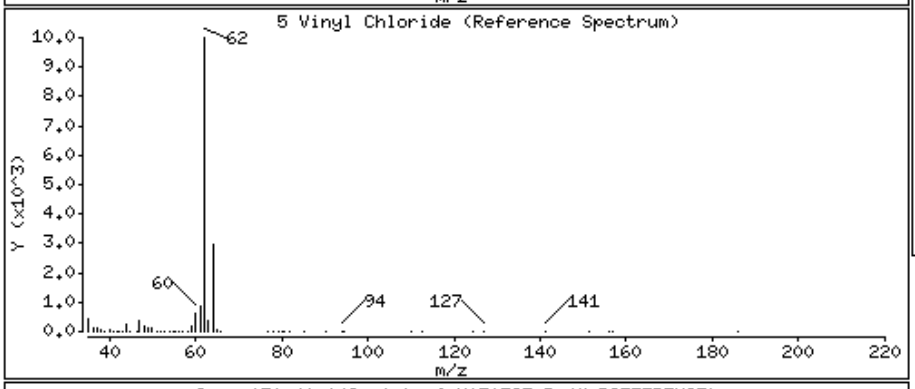
5 Vinyl Chloride Concentration: 720.59 ug/l

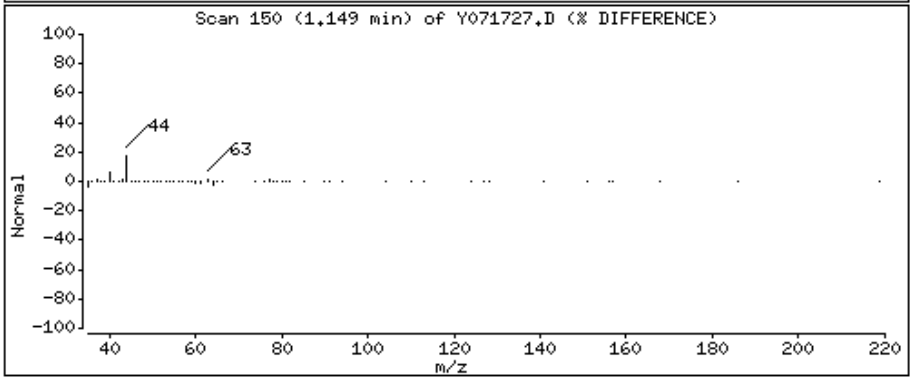












Data File: \\NAHSTWS005\Target\chem\voa6.i\X230717.b\Y071727.D Page 3

Date : 18-JUL-2023 06:42

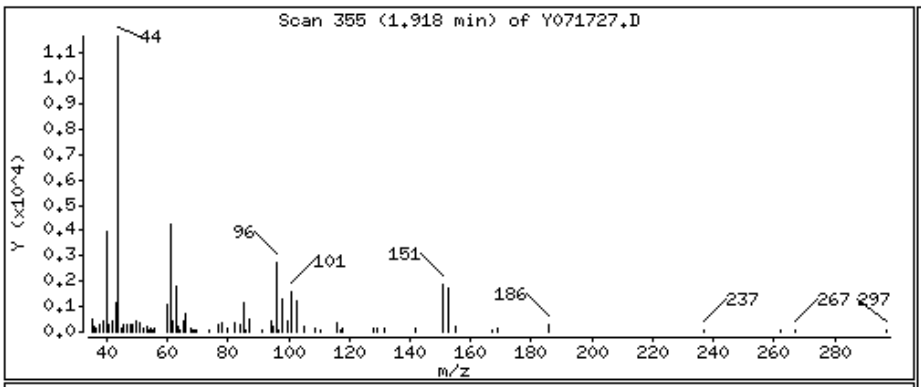
Client ID: HS23070658-03 Instrument: voa6.i

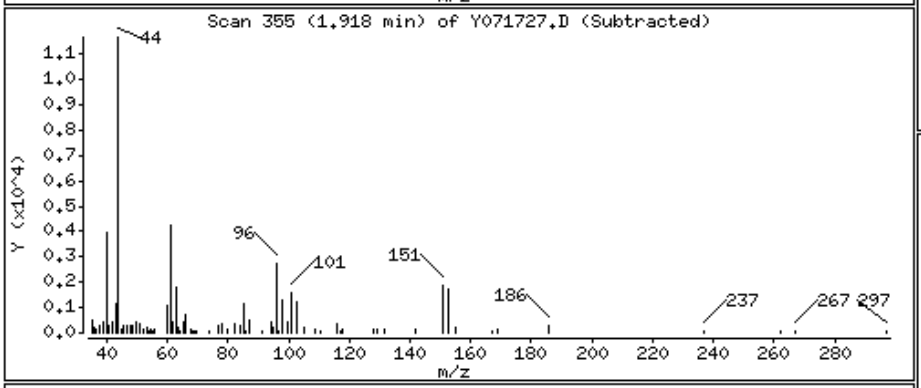
Sample Info: HS23070658-03;HS23070658-03;;;

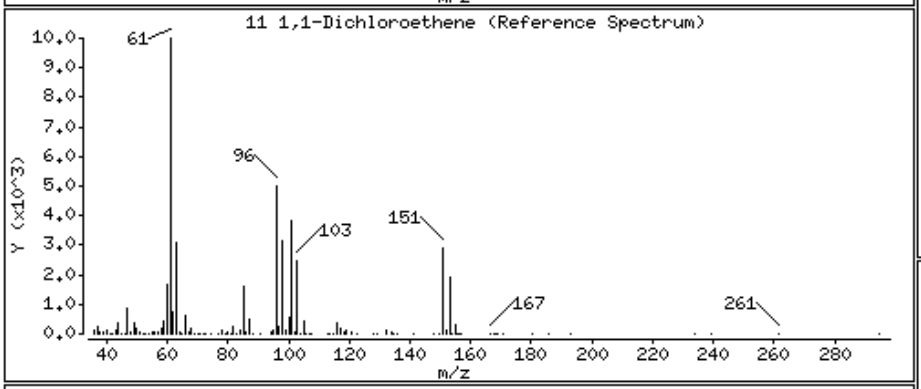
Purge Volume: 5.0 Operator: PC

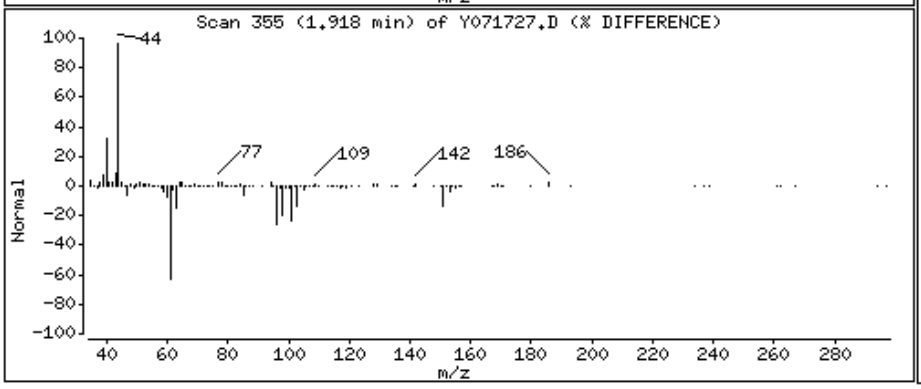
Column phase: DB624 Column diameter: 0.18

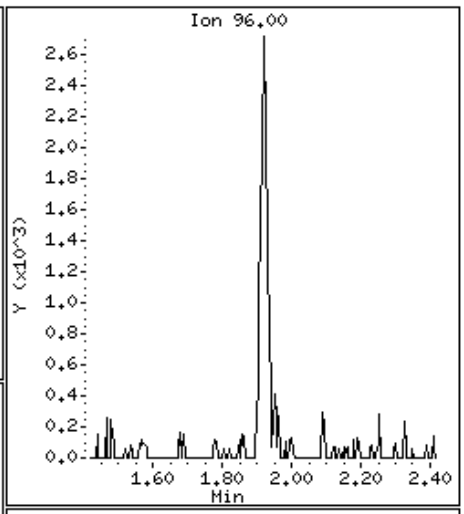
11 1,1-Dichloroethene Concentration: 79.02 ug/l

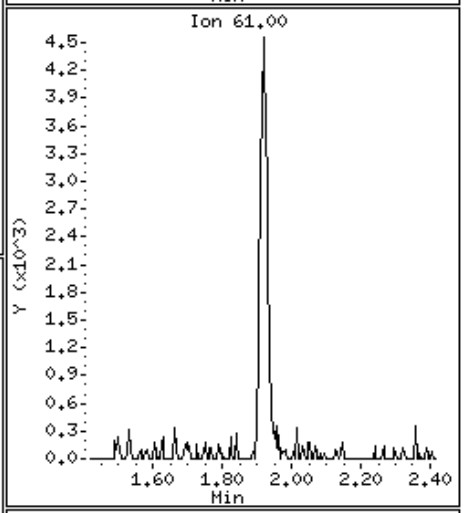


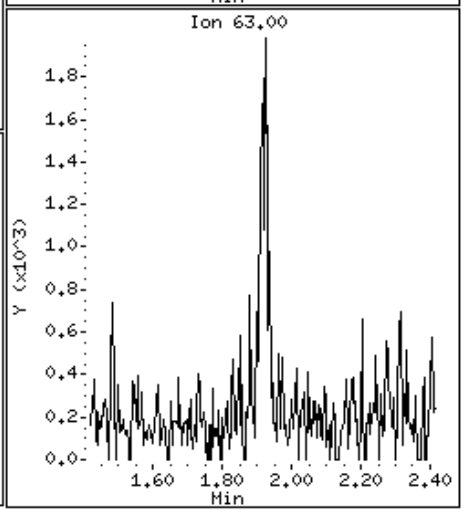












Data File: \\NAHSTWS005\Target\chem\voa6.i\X230717.b\Y071727.D Page 4

Date : 18-JUL-2023 06:42

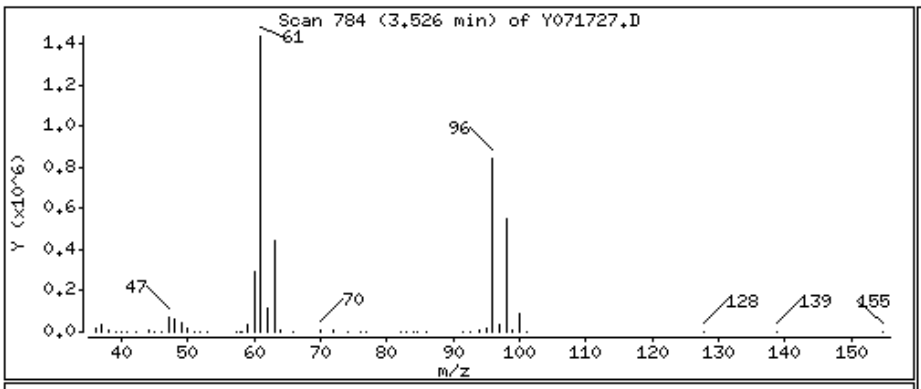
Client ID: HS23070658-03 Instrument: voa6.i

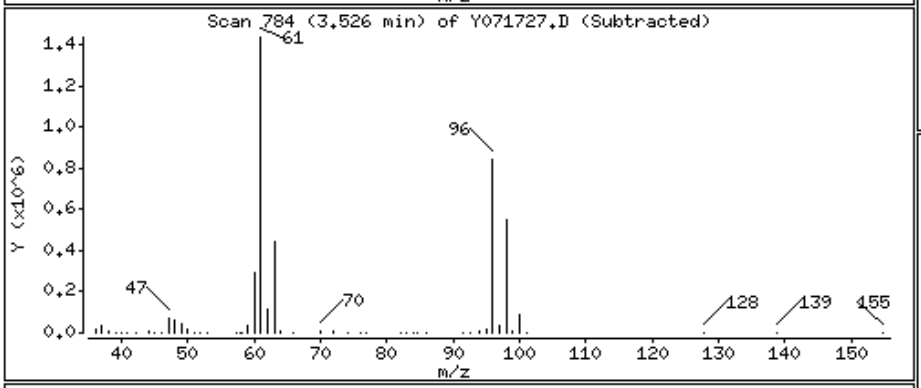
Sample Info: HS23070658-03;HS23070658-03;;;

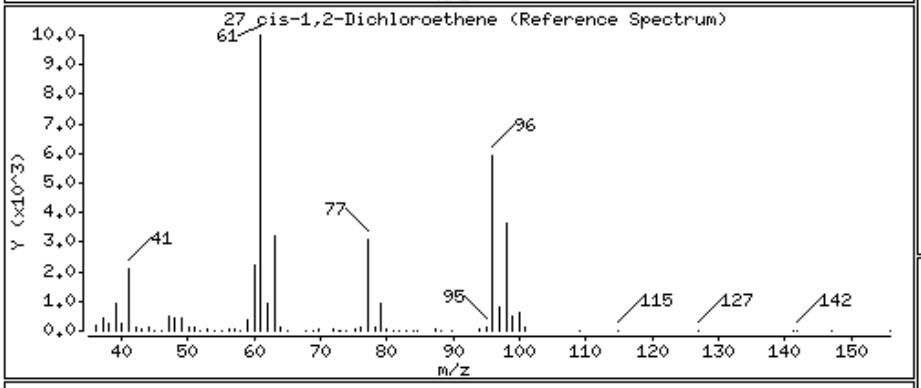
Purge Volume: 5.0 Operator: PC

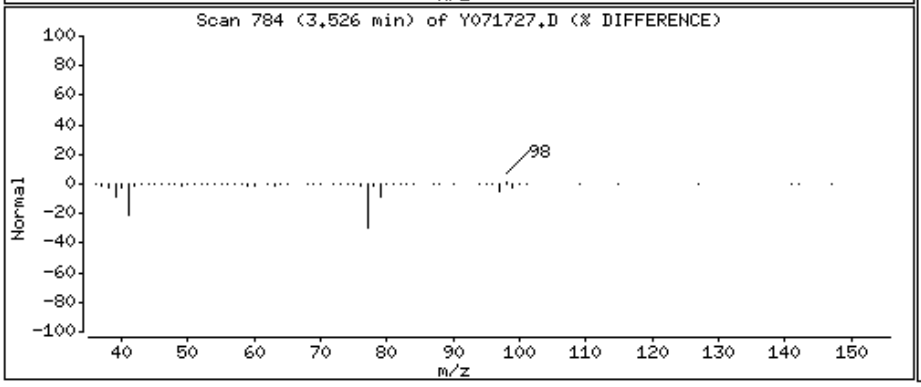
Column phase: DB624 Column diameter: 0.18

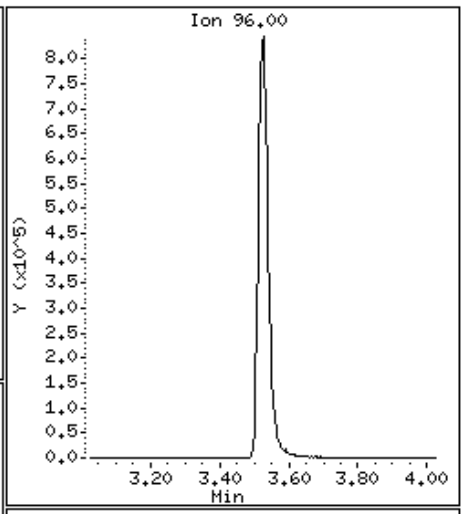
27 cis-1,2-Dichloroethene Concentration: 24711.44 ug/l

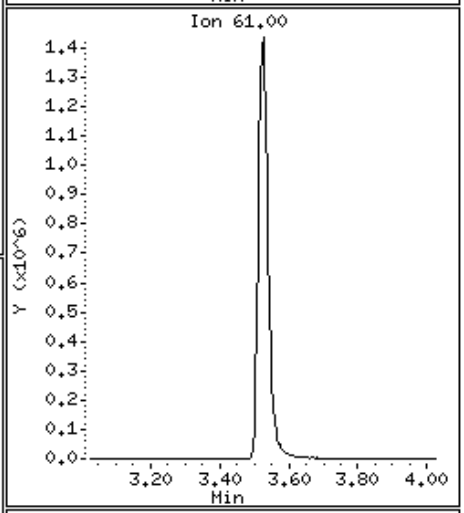


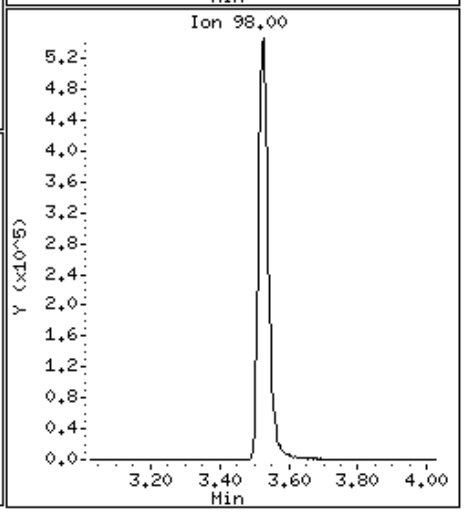












Data File: \\NAHSTWS005\Target\chem\voa6.i\X230717.b\Y071727.D Page 5

Date : 18-JUL-2023 06:42

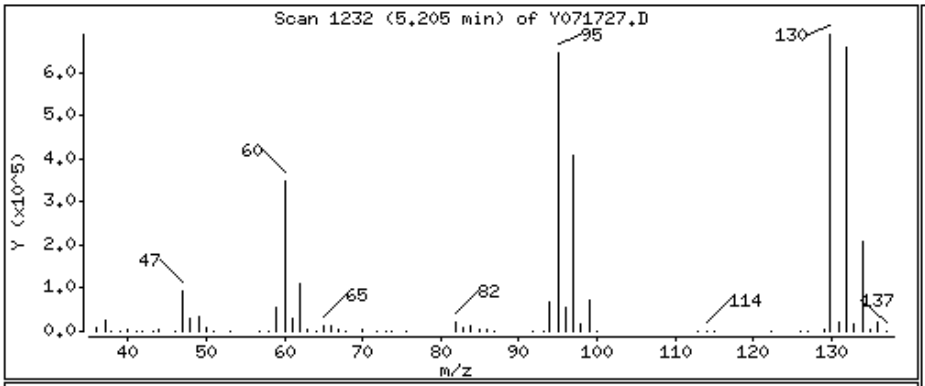
Client ID: HS23070658-03 Instrument: voa6.i

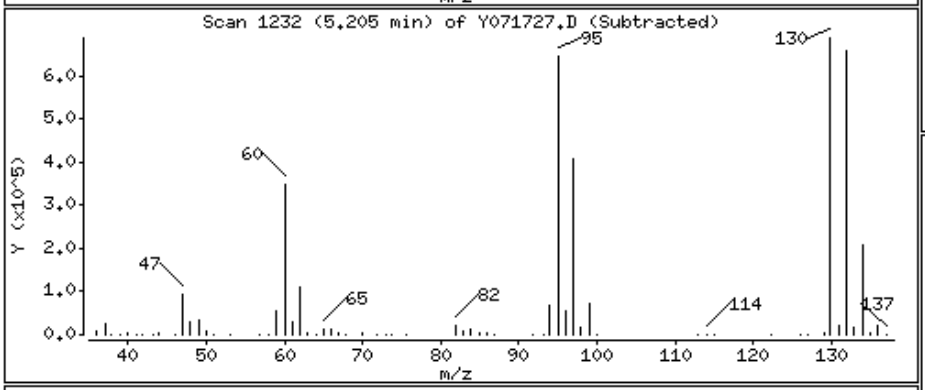
Sample Info: HS23070658-03;HS23070658-03;;;

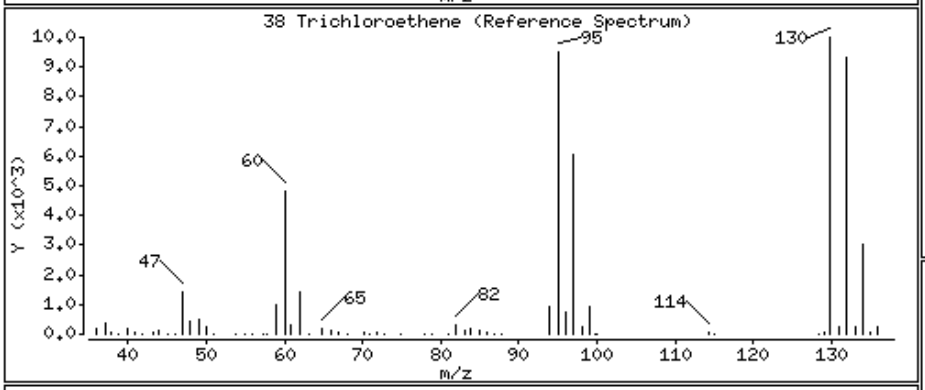
Purge Volume: 5.0 Operator: PC

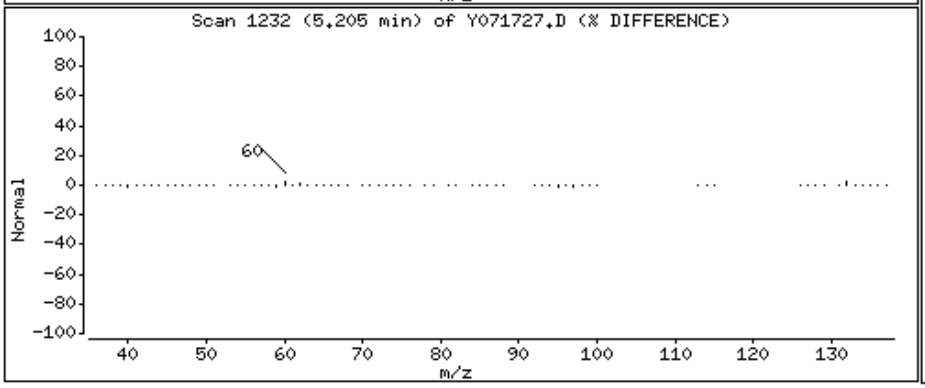
Column phase: DB624 Column diameter: 0.18

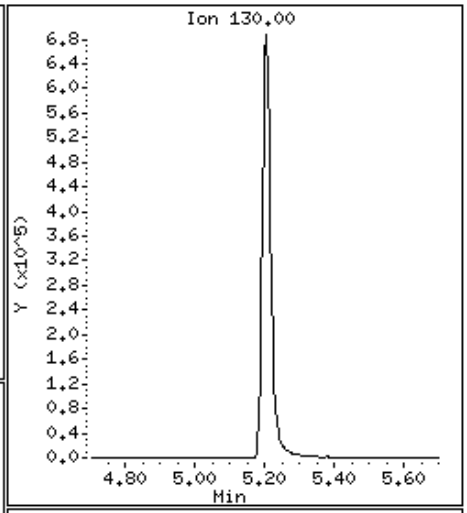
38 Trichloroethene Concentration: 17946.94 ug/l

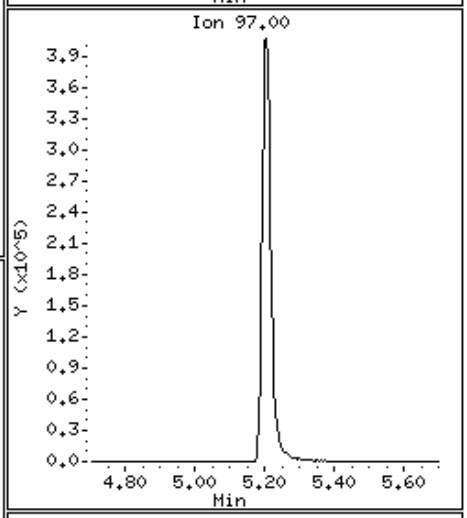


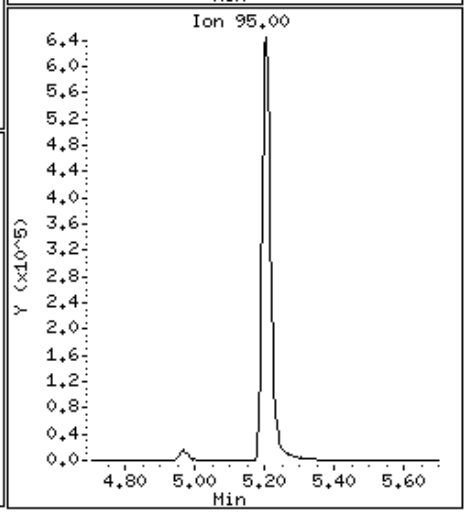












Data File: \\NAHSTWS005\Target\chem\voa6.i\X230717.b\Y071727.D

Date : 18-JUL-2023 06:42

Client ID: HS23070658-03

Instrument: voa6.i

Sample Info: HS23070658-03;HS23070658-03;;;

Purge Volume: 5.0

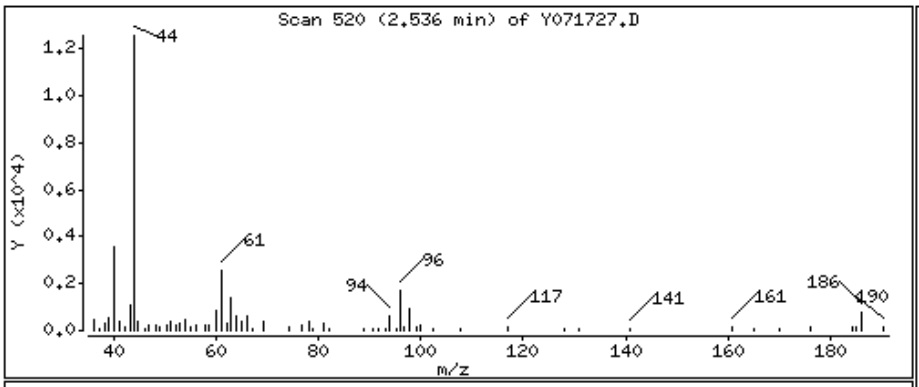
Operator: PC

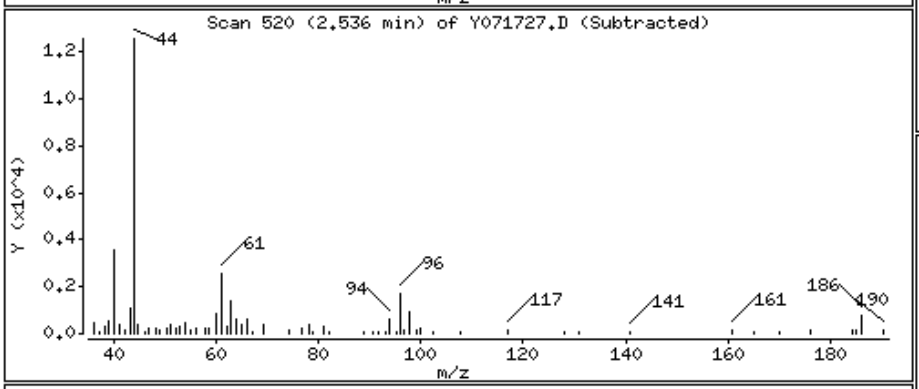
Column phase: DB624

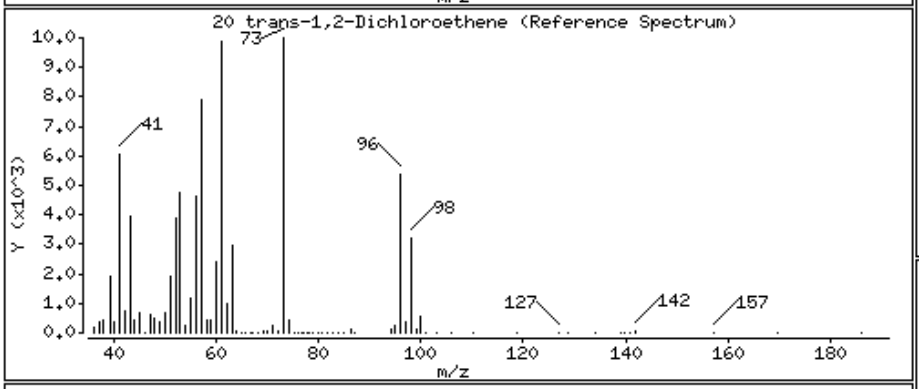
Column diameter: 0.18

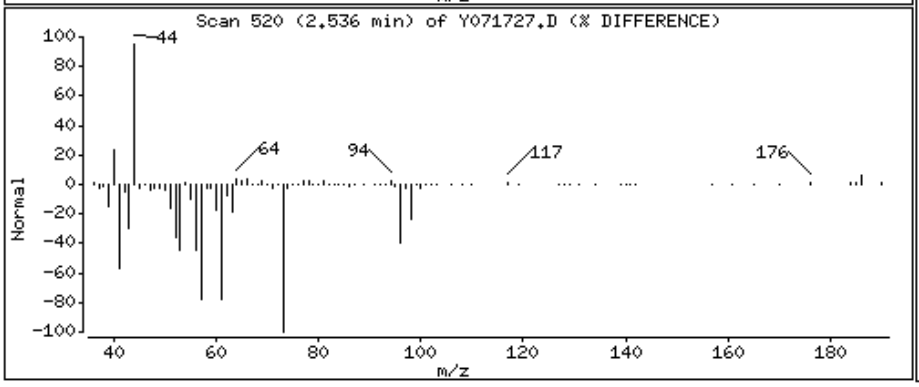
20 trans-1,2-Dichloroethene

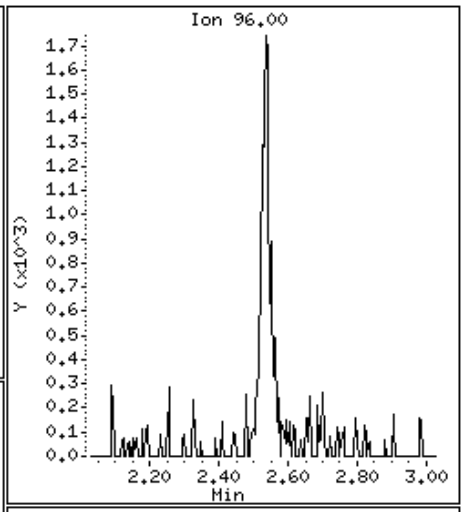
Concentration: 60.07 ug/l

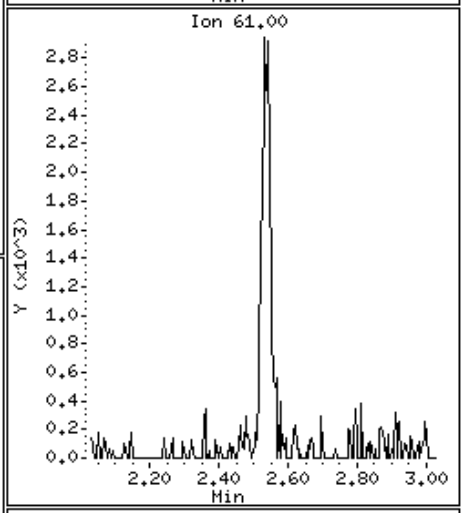


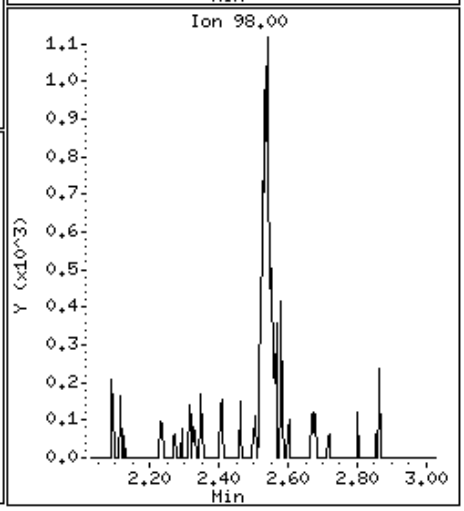












Data File : \\NAHSTWS005\Target\chem\voa6.i\X230717.b\Y071727.D
Inj Date : 18-JUL-2023 06:42
InstruID : voa6.i
LabSampID : HS23070658-03

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230717.b\Y071728.D Page 1
Report Date: 20-Jul-2023 15:03

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230717.b\Y071728.D
Lab Smp Id: HS23070658-03 Client Smp ID: HS23070658-03
Inj Date : 18-JUL-2023 07:02
Operator : PC Inst ID: voa6.i
Smp Info : HS23070658-03;HS23070658-03;;;
Misc Info : V6;WATER;0;500;
Comment :
Method : \\NAHSTWS005\Target\chem\voa6.i\X230717.b\8260W.m
Meth Date : 20-Jul-2023 15:02 voa6.i Quant Type: ISTD
Cal Date : 14-JUL-2023 14:24 Cal File: X071408.D
Als bottle: 57
Dil Factor: 500.00000
Integrator: HP RTE Compound Sublist: 0474-dod.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	500.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.177	4.177	(1.000)	632929	50.0000	
$ 30 Dibromofluoromethane	113	4.099	4.099	(0.981)	294888	50.8480	50.84
$ 35 1,2-Dichloroethane-d4	65	4.470	4.470	(1.070)	375916	51.8435	51.84
* 36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	961038	50.0000	
* 47 Chlorobenzene-d5	117	7.667	7.667	(1.000)	836846	50.0000	
$ 48 Toluene-d8	98	6.385	6.385	(0.833)	1116227	51.8062	51.80
$ 69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	378544	45.3919	45.39
* 70 1,4-Dichlorobenzene-d4	152	9.662	9.658	(1.000)	399234	50.0000	
5 Vinyl Chloride	62	1.145	1.145	(0.274)	13051	1.59345	796.72(a)
27 cis-1,2-Dichloroethene	96	3.525	3.529	(0.844)	428180	62.6659	31332.96
38 Trichloroethene	130	5.205	5.205	(1.048)	266130	40.9297	20464.84

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

01321073

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230717.b\Y071728.D

Date : 18-JUL-2023 07:02

Client ID: HS23070658-03

Instrument: voa6.i

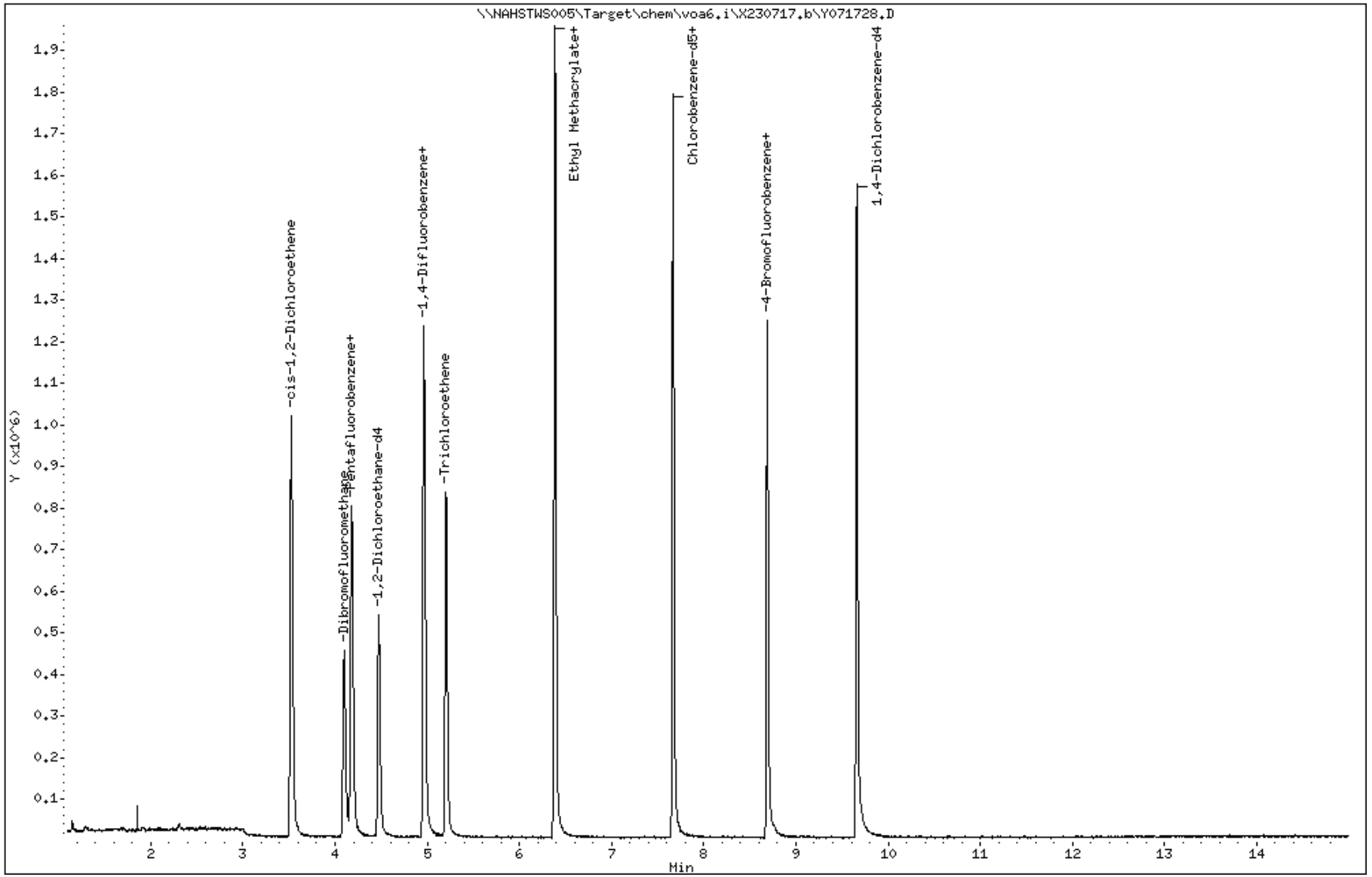
Sample Info: HS23070658-03;HS23070658-03;;;

Purge Volume: 5.0

Operator: PC

Column phase: DB624

Column diameter: 0.18



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230717.b\Y071728.D

Date : 18-JUL-2023 07:02

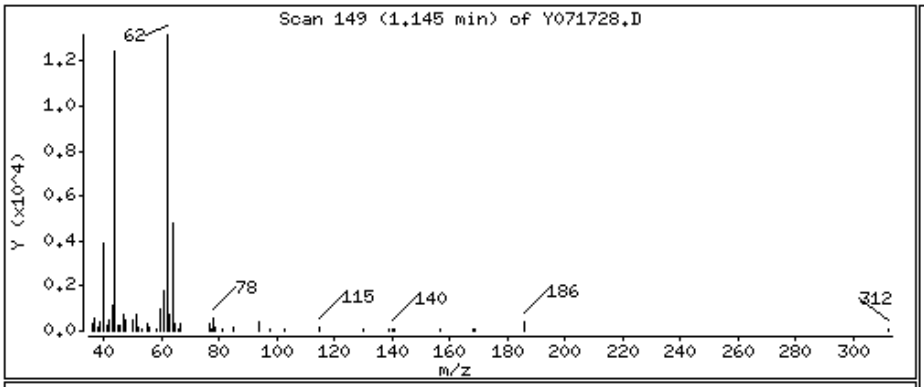
Client ID: HS23070658-03 Instrument: voa6.i

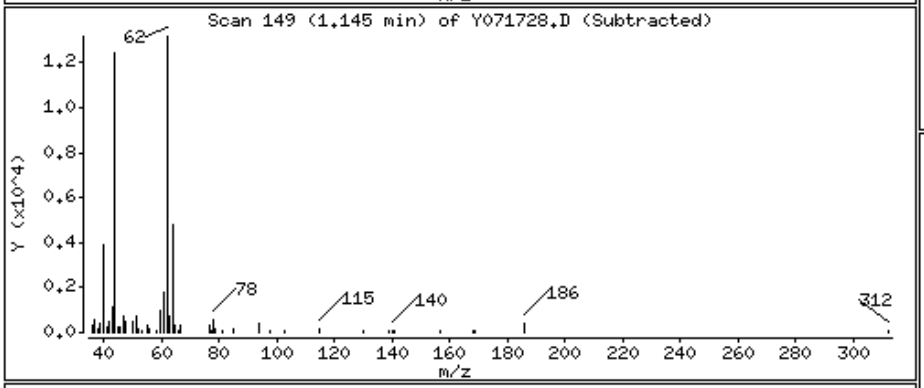
Sample Info: HS23070658-03;HS23070658-03;;;

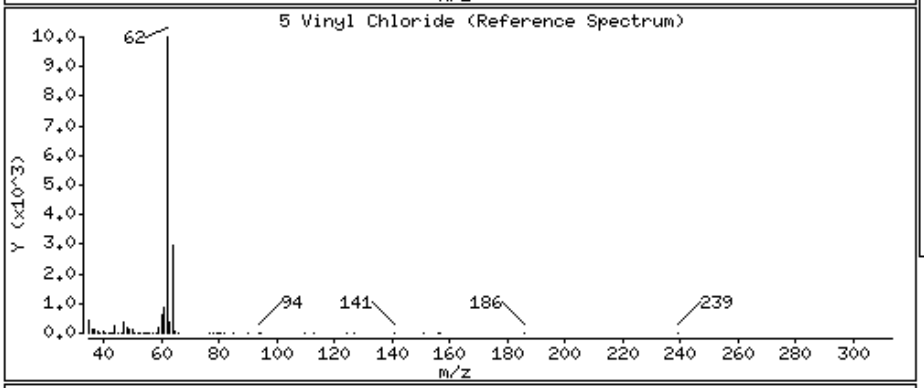
Purge Volume: 5.0 Operator: PC

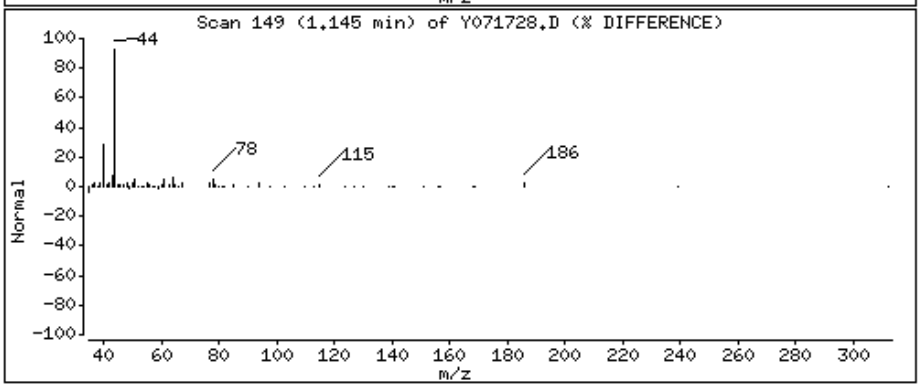
Column phase: DB624 Column diameter: 0.18

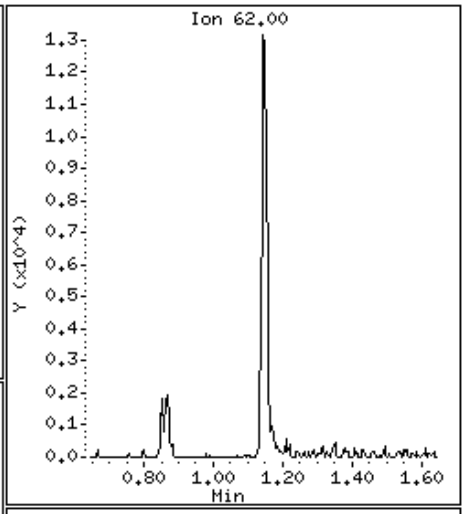
5 Vinyl Chloride Concentration: 796.72 ug/l

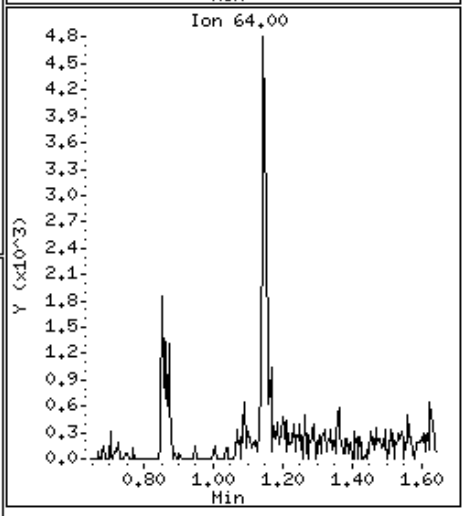












Data File: \\NAHSTWS005\Target\chem\voa6.i\X230717.b\Y071728.D Page 3

Date : 18-JUL-2023 07:02

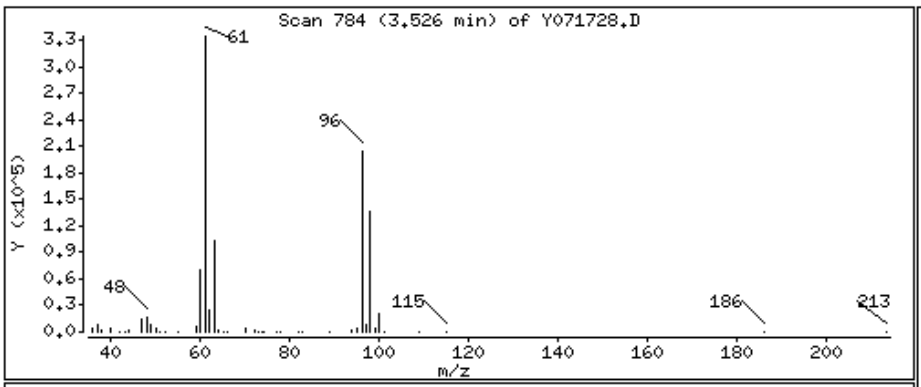
Client ID: HS23070658-03 Instrument: voa6.i

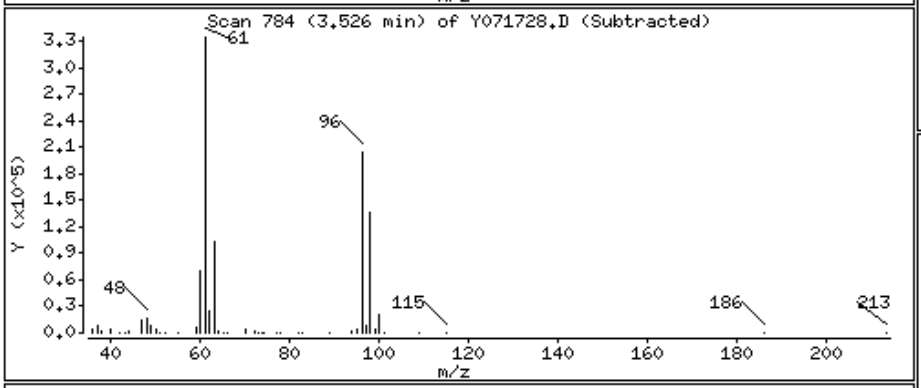
Sample Info: HS23070658-03;HS23070658-03;;;

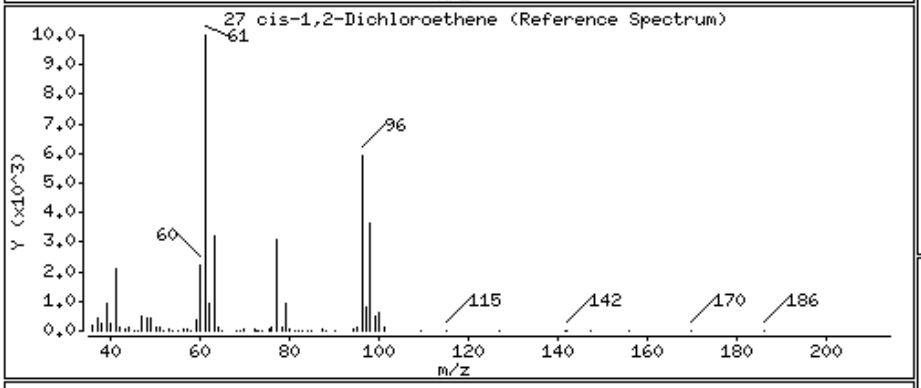
Purge Volume: 5.0 Operator: PC

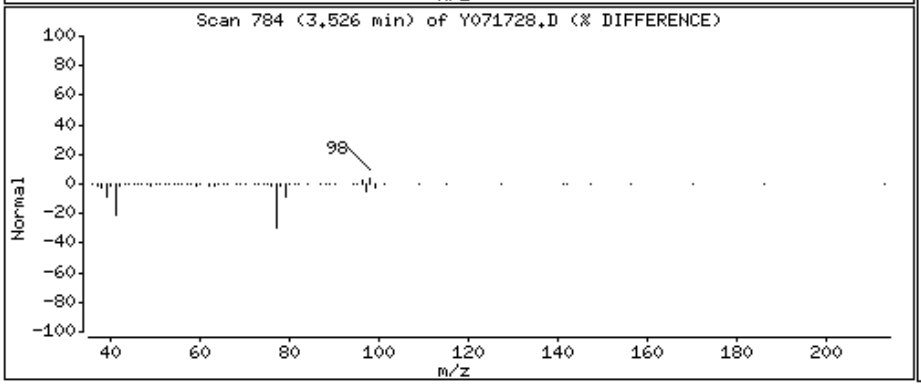
Column phase: DB624 Column diameter: 0.18

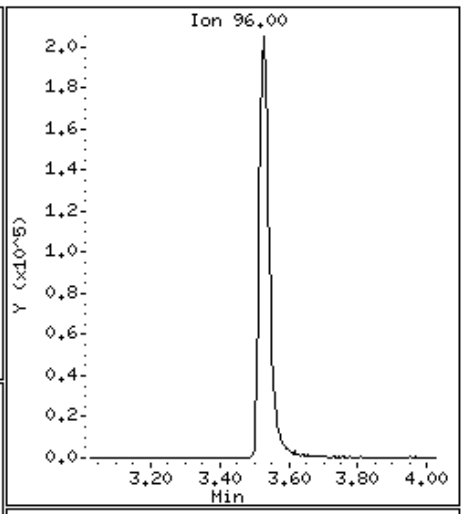
27 cis-1,2-Dichloroethene Concentration: 31332.96 ug/l

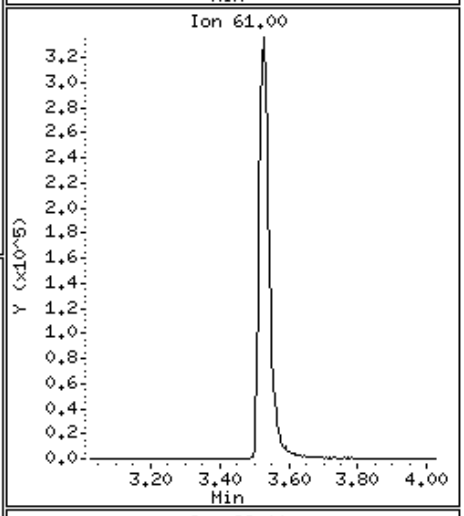


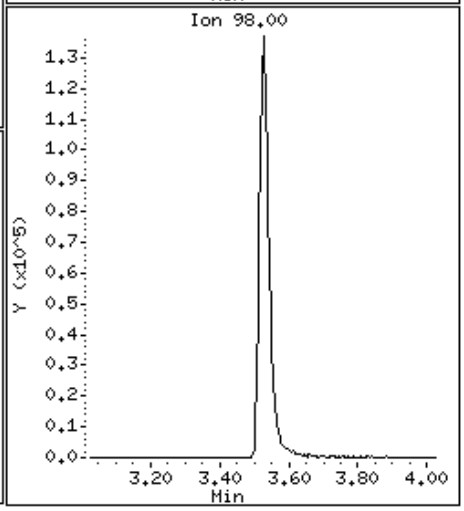












Data File: \\NAHSTWS005\Target\chem\voa6.i\X230717.b\Y071728.D

Date : 18-JUL-2023 07:02

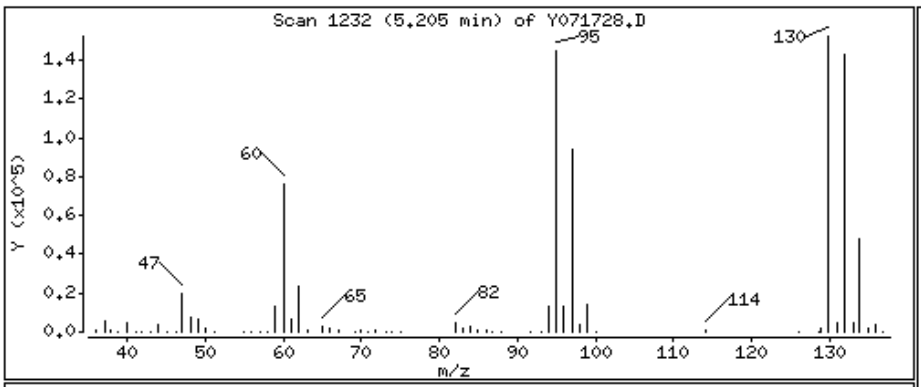
Client ID: HS23070658-03 Instrument: voa6.i

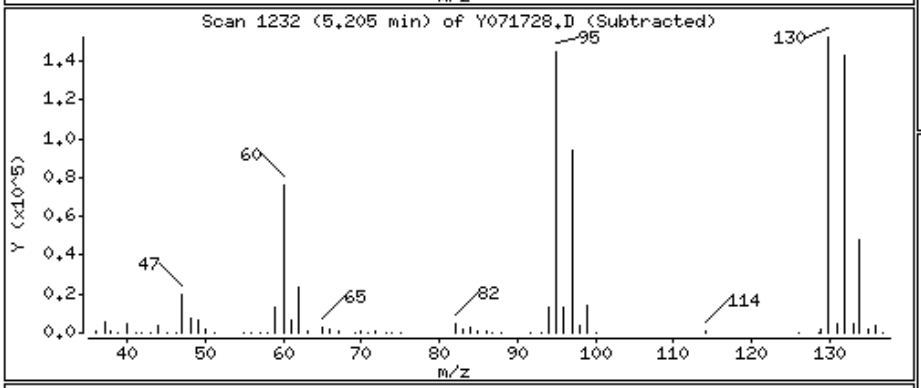
Sample Info: HS23070658-03;HS23070658-03;;;

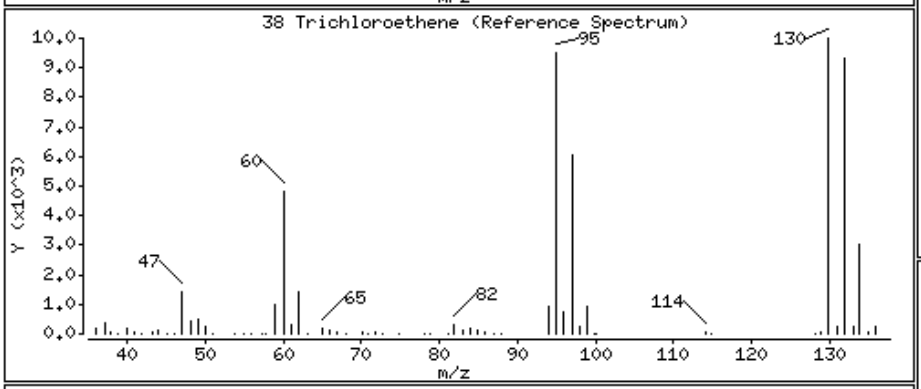
Purge Volume: 5.0 Operator: PC

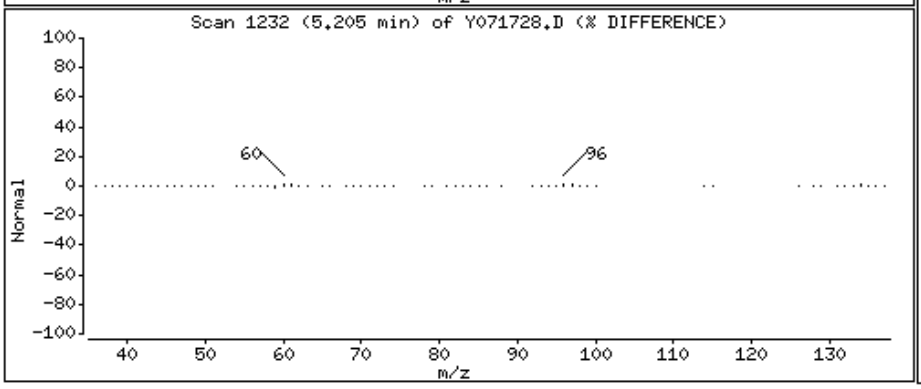
Column phase: DB624 Column diameter: 0.18

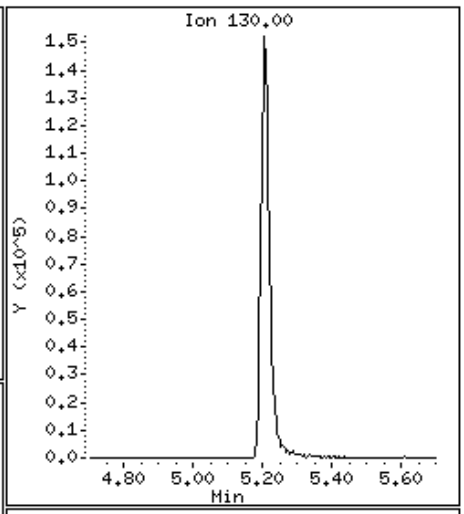
38 Trichloroethene Concentration: 20464.84 ug/l

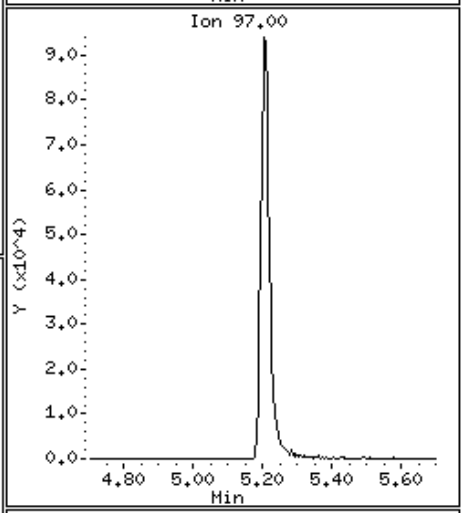


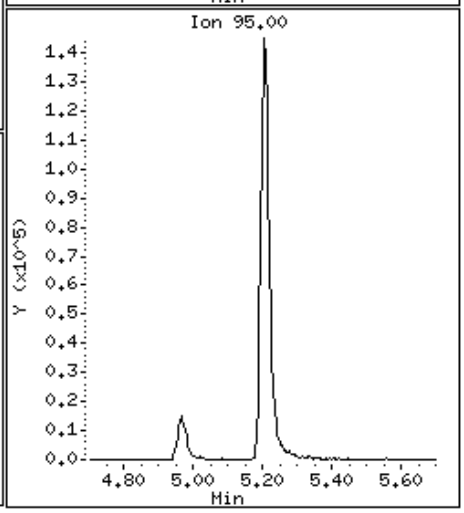












Data File : \\NAHSTWS005\Target\chem\voa6.i\X230717.b\Y071728.D
Inj Date : 18-JUL-2023 07:02
InstruID : voa6.i
LabSampID : HS23070658-03

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230717.b\Y071729.D Page 1
Report Date: 20-Jul-2023 15:03

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230717.b\Y071729.D
Lab Smp Id: HS23070658-04 Client Smp ID: HS23070658-04
Inj Date : 18-JUL-2023 07:23
Operator : PC Inst ID: voa6.i
Smp Info : HS23070658-04;HS23070658-04;;;
Misc Info : V6;WATER;0;100;
Comment :
Method : \\NAHSTWS005\Target\chem\voa6.i\X230717.b\8260W.m
Meth Date : 20-Jul-2023 15:02 voa6.i Quant Type: ISTD
Cal Date : 14-JUL-2023 14:24 Cal File: X071408.D
Als bottle: 58
Dil Factor: 100.00000
Integrator: HP RTE Compound Sublist: 0474-dod.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	100.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.181	4.177	(1.000)	641529	50.0000	
$ 30 Dibromofluoromethane	113	4.102	4.099	(0.981)	309273	52.6400	52.64
$ 35 1,2-Dichloroethane-d4	65	4.470	4.470	(1.069)	383214	52.1451	52.14
* 36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	980316	50.0000	
* 47 Chlorobenzene-d5	117	7.667	7.667	(1.000)	867147	50.0000	
$ 48 Toluene-d8	98	6.385	6.385	(0.833)	1127350	50.4941	50.49
$ 69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	394283	45.6293	45.62
* 70 1,4-Dichlorobenzene-d4	152	9.662	9.658	(1.000)	444002	50.0000	
5 Vinyl Chloride	62	1.145	1.145	(0.274)	55508	6.68636	668.63
11 1,1-Dichloroethene	96	1.921	1.917	(0.459)	3855	0.82023	82.02(a)
27 cis-1,2-Dichloroethene	96	3.525	3.529	(0.843)	1776640	256.533	25653.30(A)
38 Trichloroethene	130	5.205	5.205	(1.048)	1095945	165.237	16523.71

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
exceeded maximum amount.

01321079

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230717.b\Y071729.D

Date : 18-JUL-2023 07:23

Client ID: HS23070658-04

Instrument: voa6.i

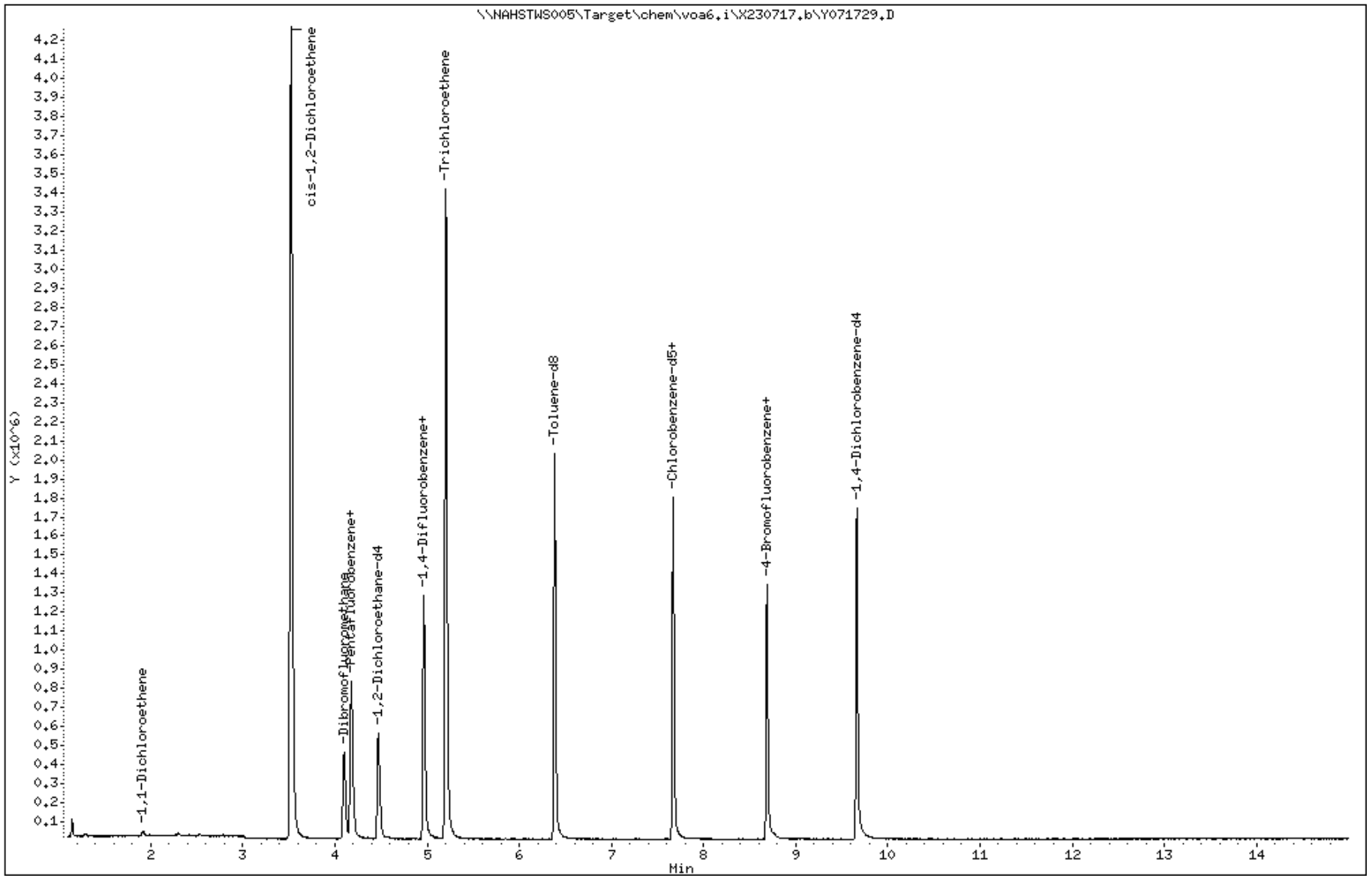
Sample Info: HS23070658-04;HS23070658-04;;;

Purge Volume: 5.0

Operator: PC

Column phase: DB624

Column diameter: 0.18



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230717.b\Y071729.D

Date : 18-JUL-2023 07:23

Client ID: HS23070658-04

Instrument: voa6.i

Sample Info: HS23070658-04;HS23070658-04;;;

Purge Volume: 5.0

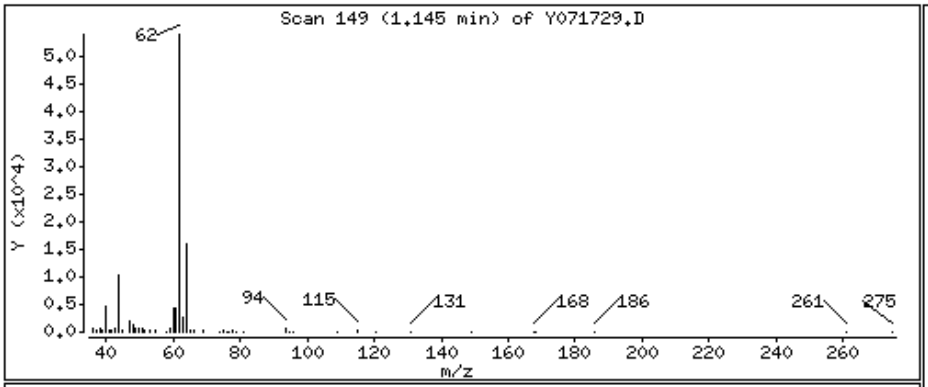
Operator: PC

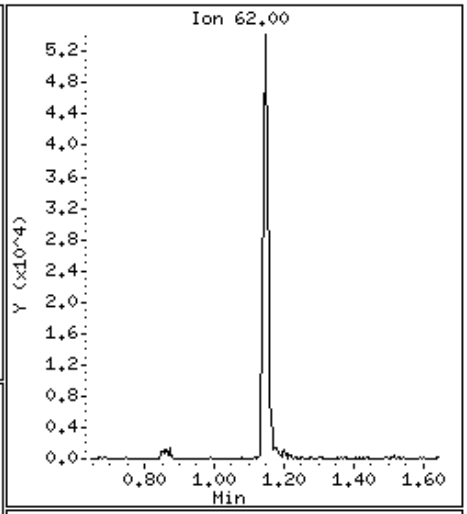
Column phase: DB624

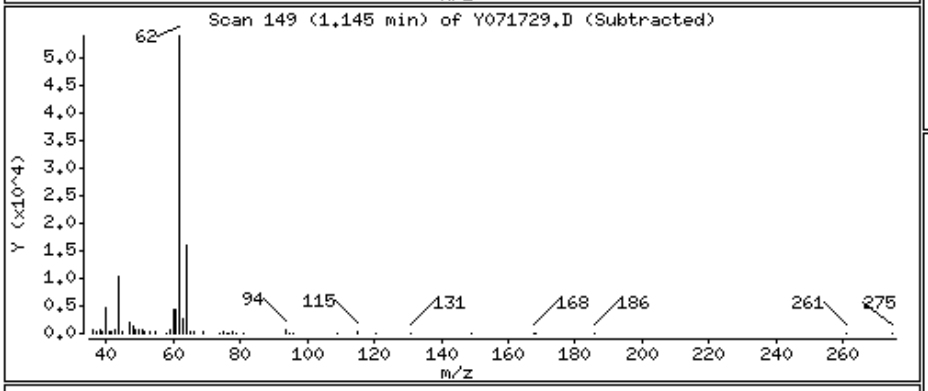
Column diameter: 0.18

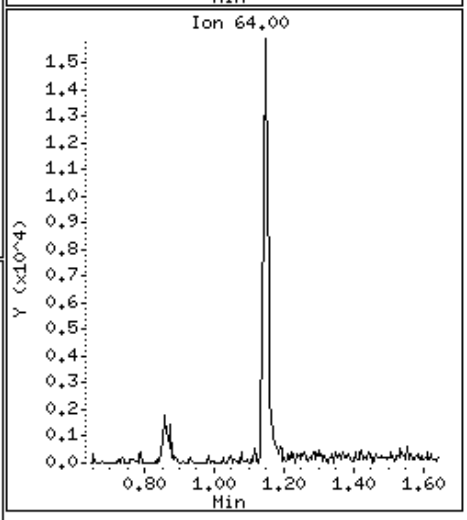
5 Vinyl Chloride

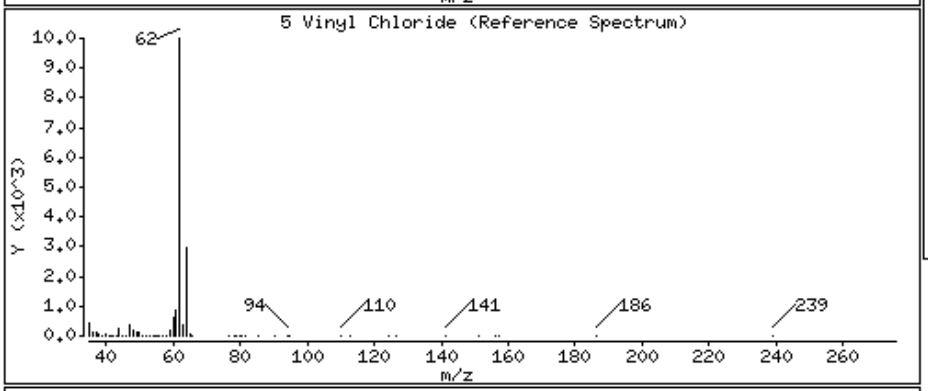
Concentration: 668.63 ug/l

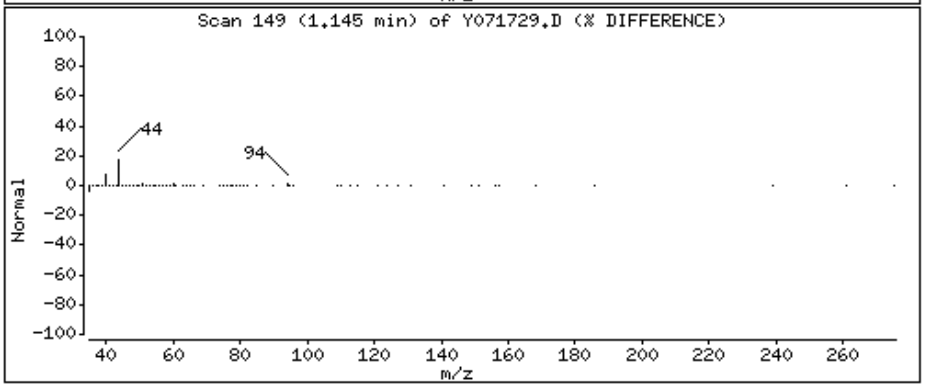












Data File: \\NAHSTWS005\Target\chem\voa6.i\X230717.b\Y071729.D

Date : 18-JUL-2023 07:23

Client ID: HS23070658-04

Instrument: voa6.i

Sample Info: HS23070658-04;HS23070658-04;;;

Purge Volume: 5.0

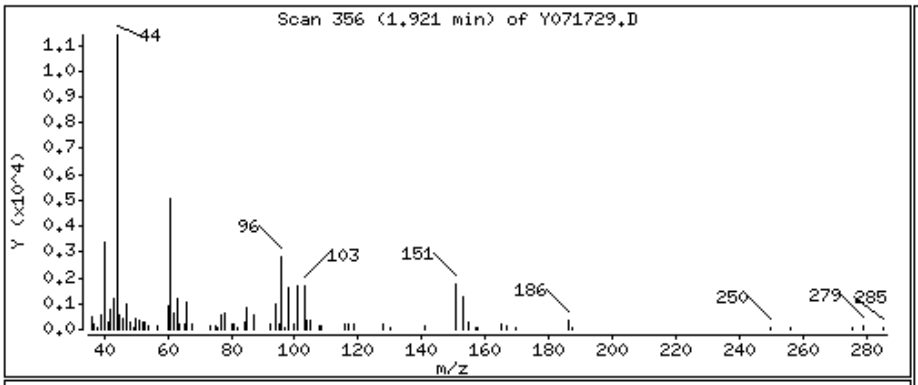
Operator: PC

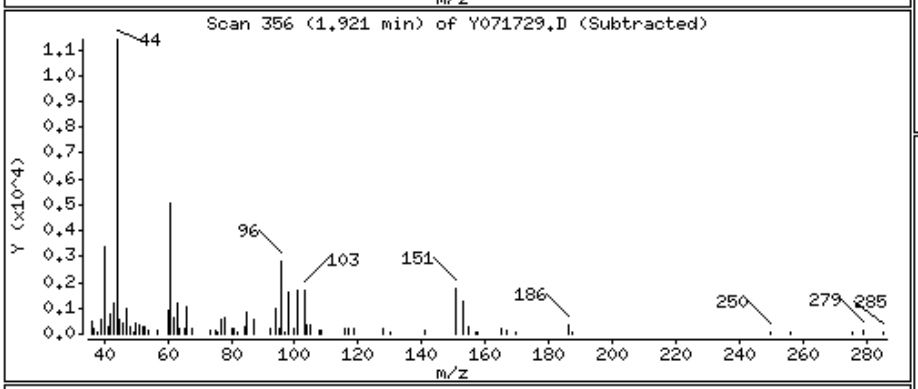
Column phase: DB624

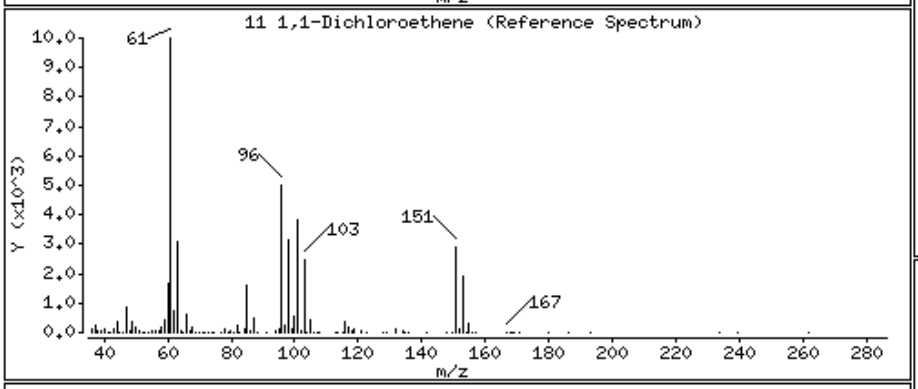
Column diameter: 0.18

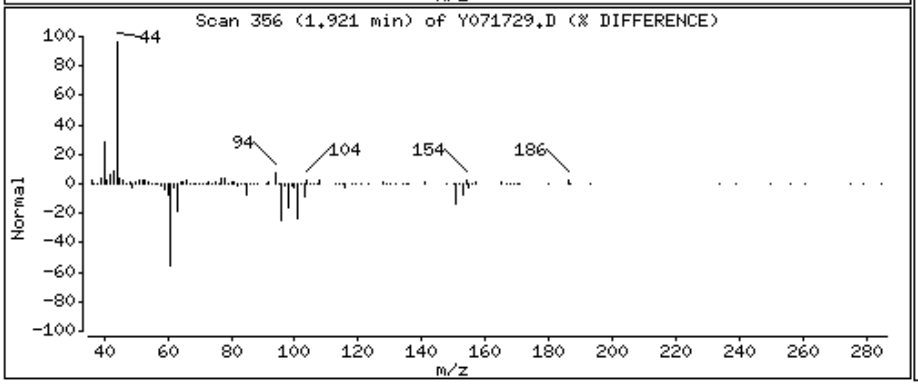
11 1,1-Dichloroethene

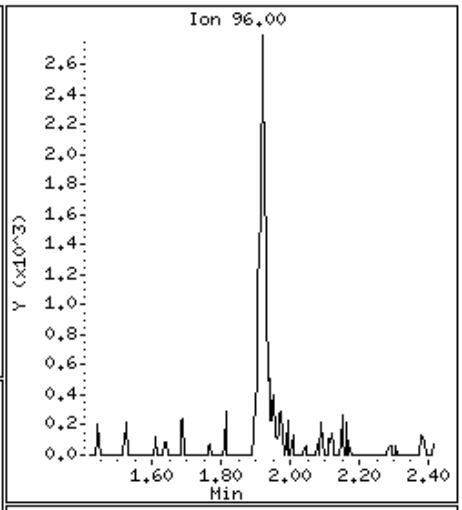
Concentration: 82.02 ug/l

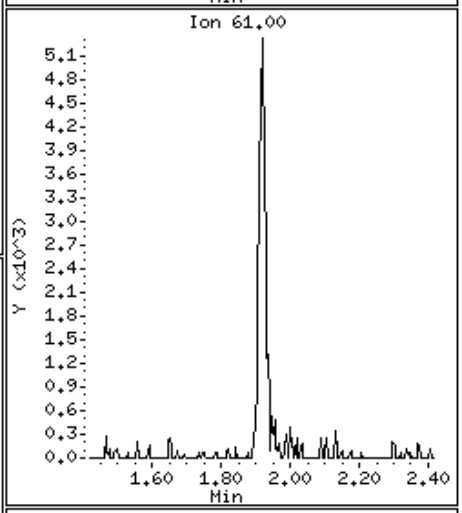


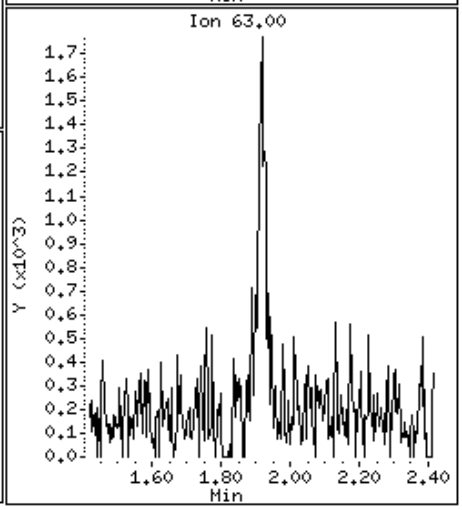












Data File: \\NAHSTWS005\Target\chem\voa6.i\X230717.b\Y071729.D Page 4

Date : 18-JUL-2023 07:23

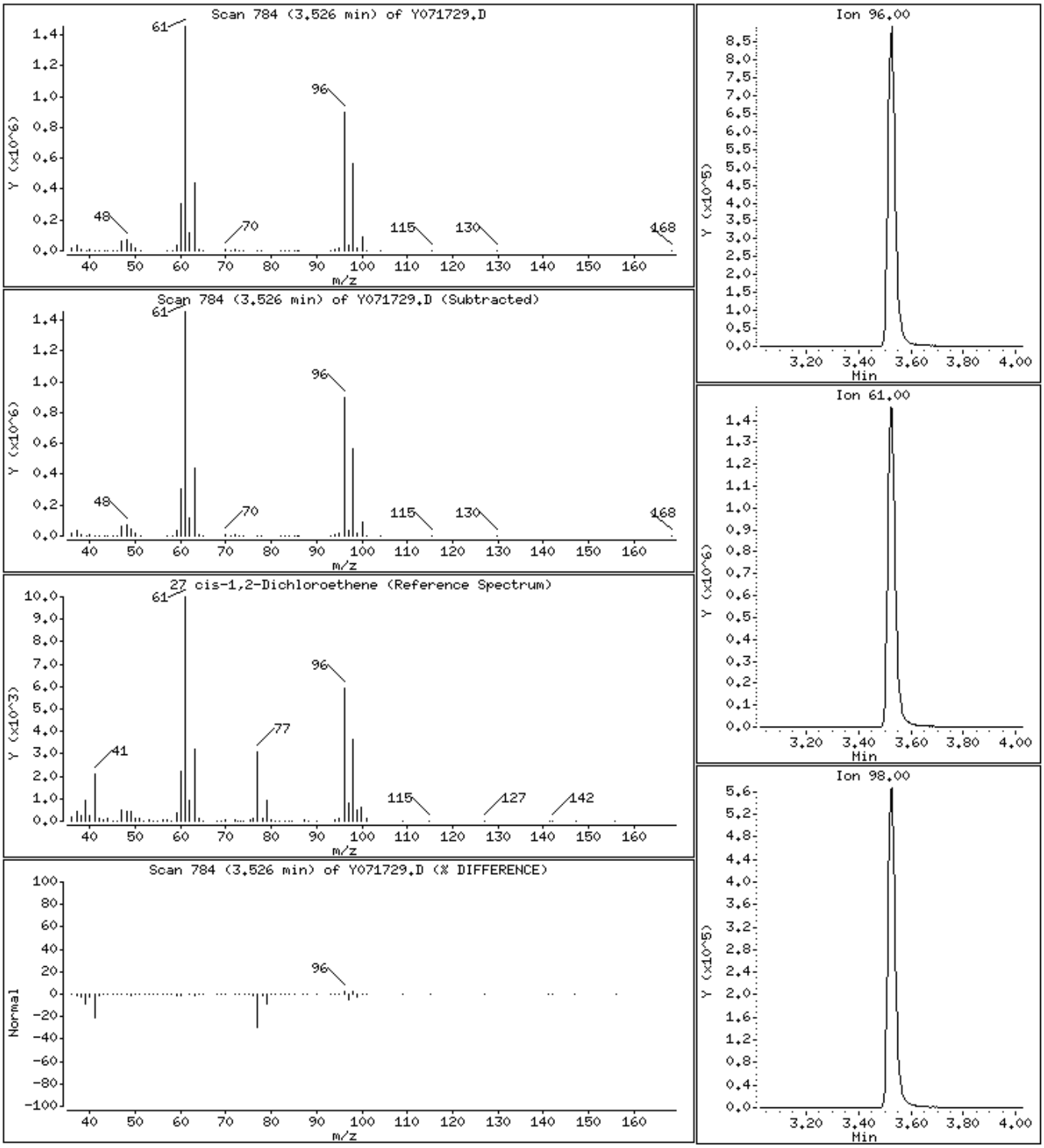
Client ID: HS23070658-04 Instrument: voa6.i

Sample Info: HS23070658-04;HS23070658-04;;;

Purge Volume: 5.0 Operator: PC

Column phase: DB624 Column diameter: 0.18

27 cis-1,2-Dichloroethene Concentration: 25653.30 ug/l



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230717.b\Y071729.D

Date : 18-JUL-2023 07:23

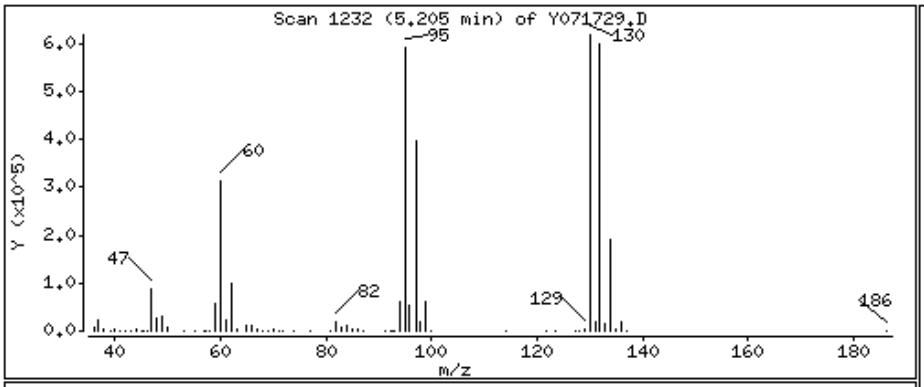
Client ID: HS23070658-04 Instrument: voa6.i

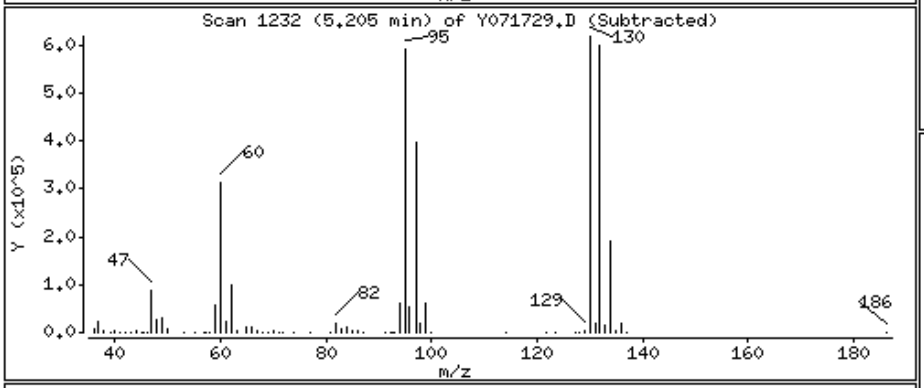
Sample Info: HS23070658-04;HS23070658-04;;;

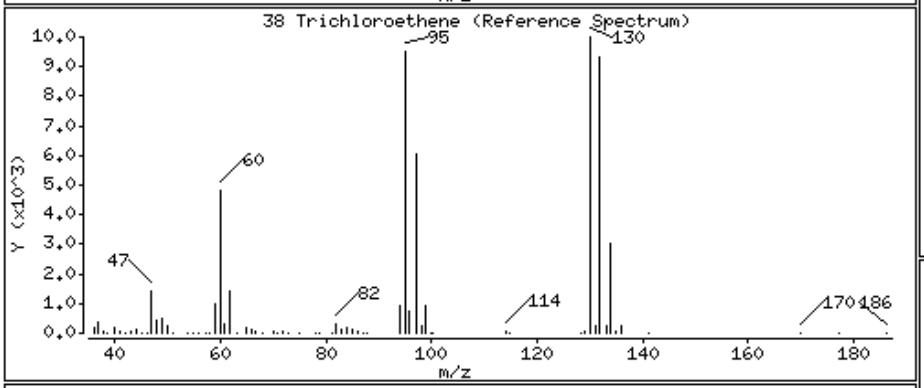
Purge Volume: 5.0 Operator: PC

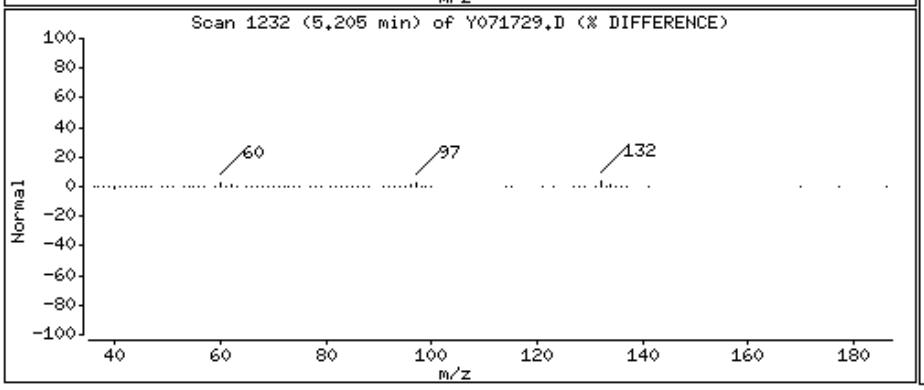
Column phase: DB624 Column diameter: 0.18

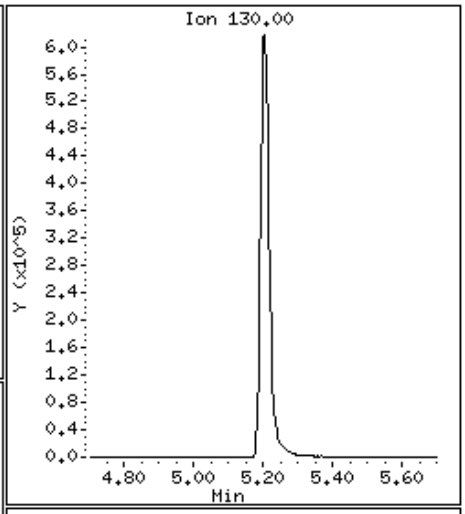
38 Trichloroethene Concentration: 16523.71 ug/l

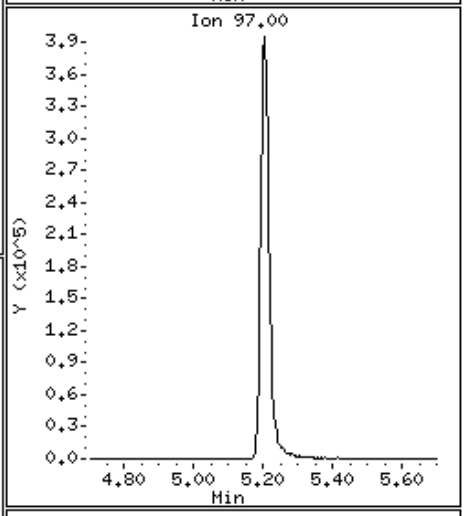


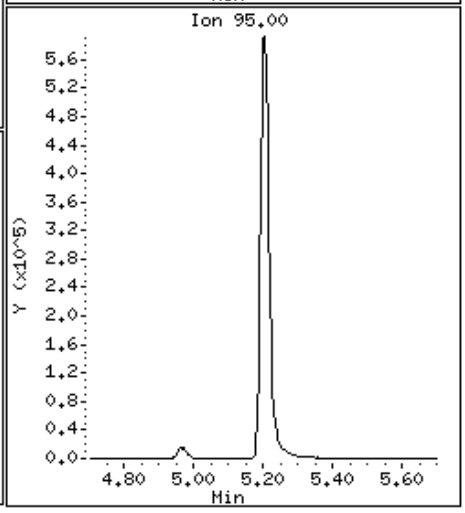












Data File : \\NAHSTWS005\Target\chem\voa6.i\X230717.b\Y071729.D
Inj Date : 18-JUL-2023 07:23
InstruID : voa6.i
LabSampID : HS23070658-04

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230717.b\Y071730.D Page 1
Report Date: 20-Jul-2023 15:03

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230717.b\Y071730.D
Lab Smp Id: HS23070658-04 Client Smp ID: HS23070658-04
Inj Date : 18-JUL-2023 07:43
Operator : PC Inst ID: voa6.i
Smp Info : HS23070658-04;HS23070658-04;;;
Misc Info : V6;WATER;0;500;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230717.b\8260W.m
Meth Date : 20-Jul-2023 15:02 voa6.i Quant Type: ISTD
Cal Date : 14-JUL-2023 14:24 Cal File: X071408.D
Als bottle: 59
Dil Factor: 500.00000
Integrator: HP RTE Compound Sublist: 0474-dod.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	500.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.178	4.177	(1.000)	613672	50.0000	
$ 30 Dibromofluoromethane	113	4.099	4.099	(0.981)	304435	54.1909	54.19
$ 35 1,2-Dichloroethane-d4	65	4.474	4.470	(1.071)	382394	54.4224	54.42
* 36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	956670	50.0000	
* 47 Chlorobenzene-d5	117	7.668	7.667	(1.000)	827741	50.0000	
$ 48 Toluene-d8	98	6.386	6.385	(0.833)	1094982	51.3792	51.37
$ 69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	377296	45.7432	45.74
* 70 1,4-Dichlorobenzene-d4	152	9.662	9.658	(1.000)	412579	50.0000	
5 Vinyl Chloride	62	1.149	1.145	(0.275)	13759	1.73261	866.30(a)
27 cis-1,2-Dichloroethene	96	3.525	3.529	(0.844)	434616	65.6039	32801.93
38 Trichloroethene	130	5.205	5.205	(1.048)	266939	41.2416	20620.77

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).

01321086

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230717.b\Y071730.D

Date : 18-JUL-2023 07:43

Client ID: HS23070658-04

Instrument: voa6.i

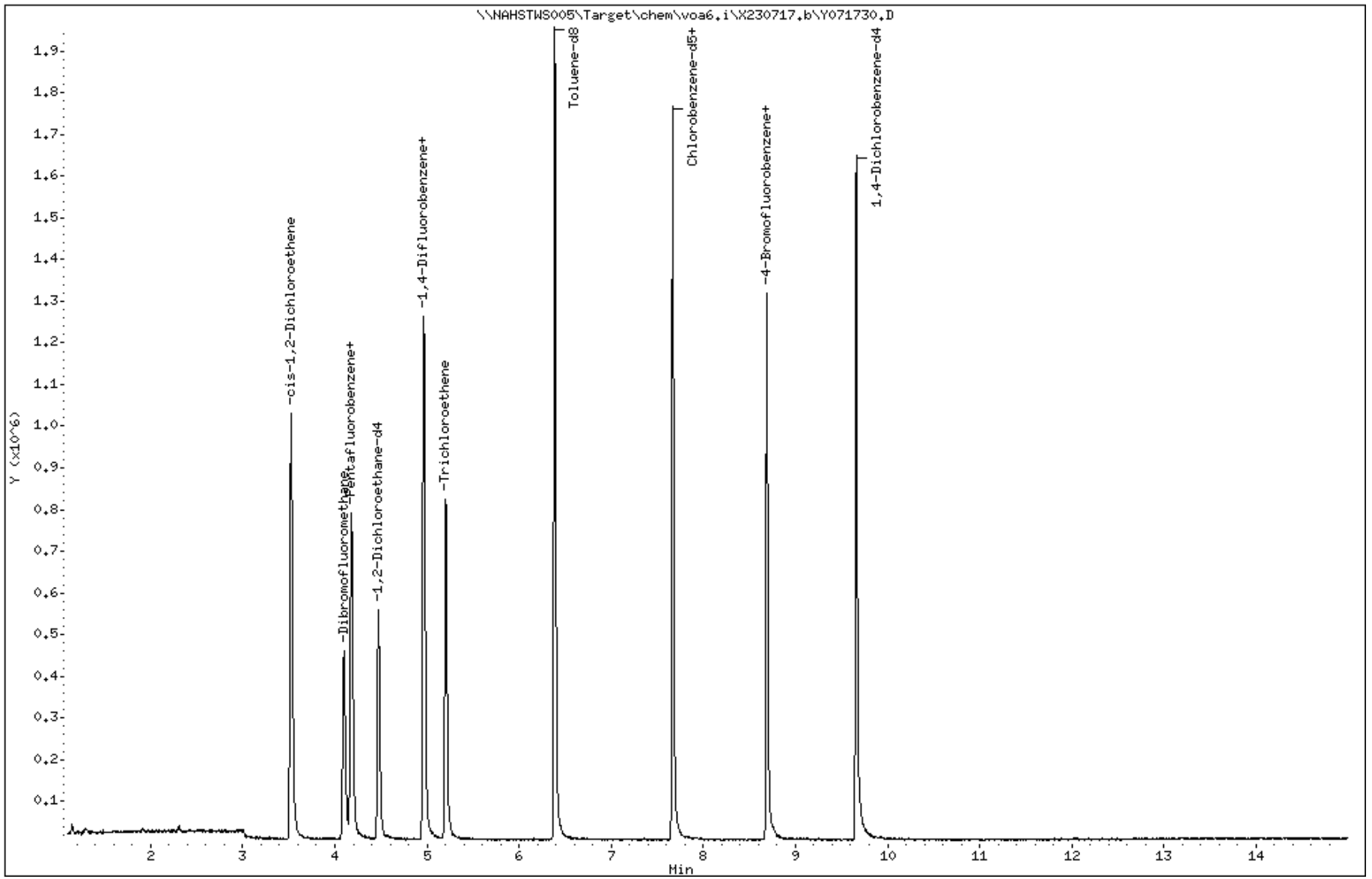
Sample Info: HS23070658-04;HS23070658-04;;;

Purge Volume: 5.0

Operator: PC

Column phase: DB624

Column diameter: 0.18



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230717.b\Y071730.D

Date : 18-JUL-2023 07:43

Client ID: HS23070658-04

Instrument: voa6.i

Sample Info: HS23070658-04;HS23070658-04;;;

Purge Volume: 5.0

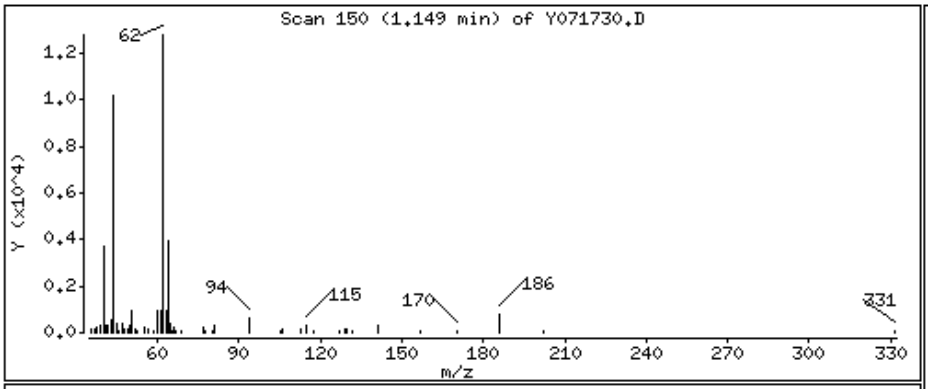
Operator: PC

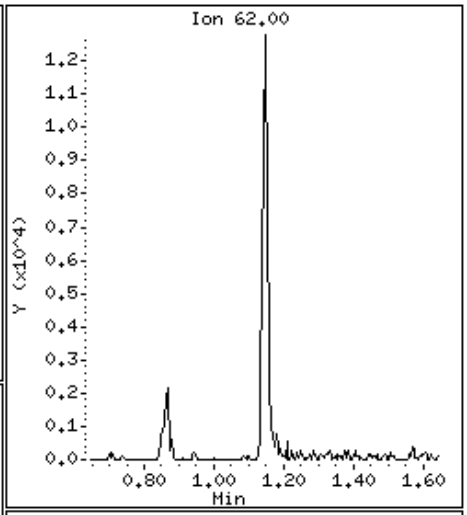
Column phase: DB624

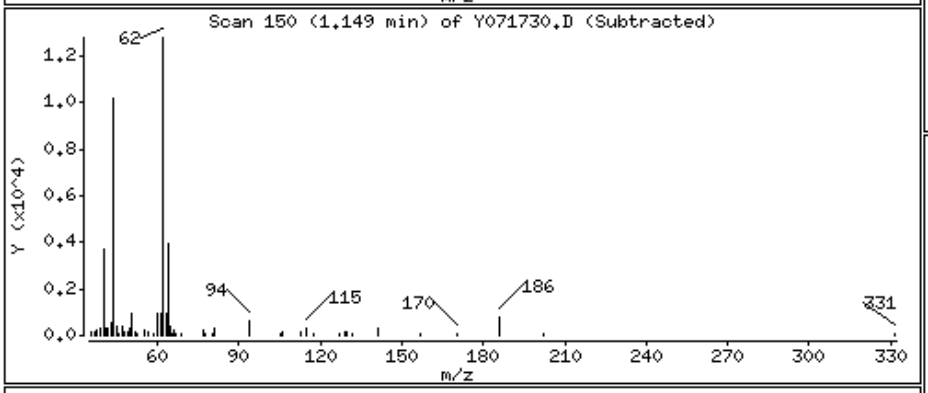
Column diameter: 0.18

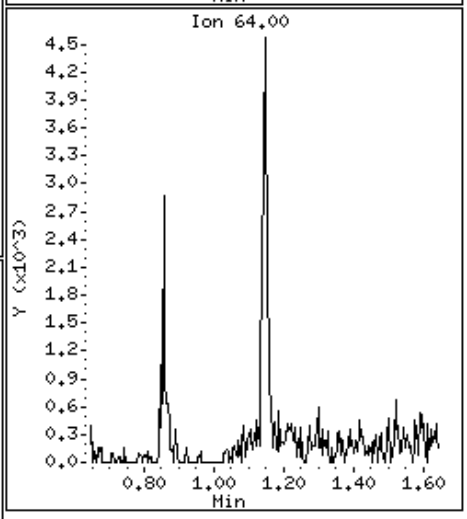
5 Vinyl Chloride

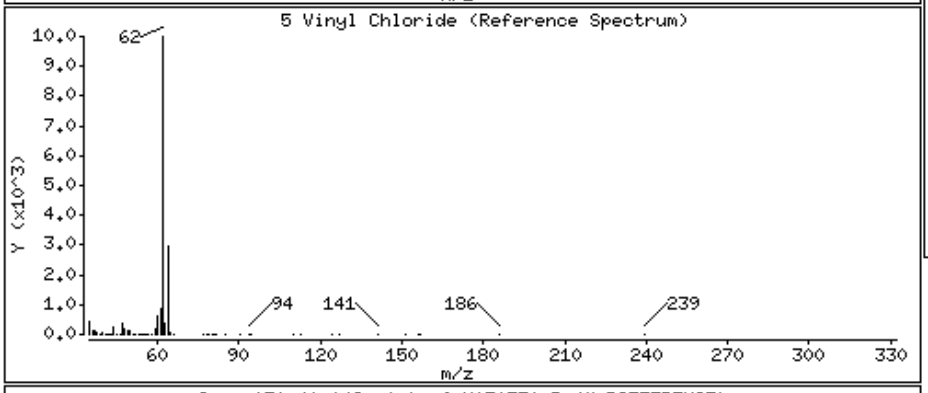
Concentration: 866.30 ug/l

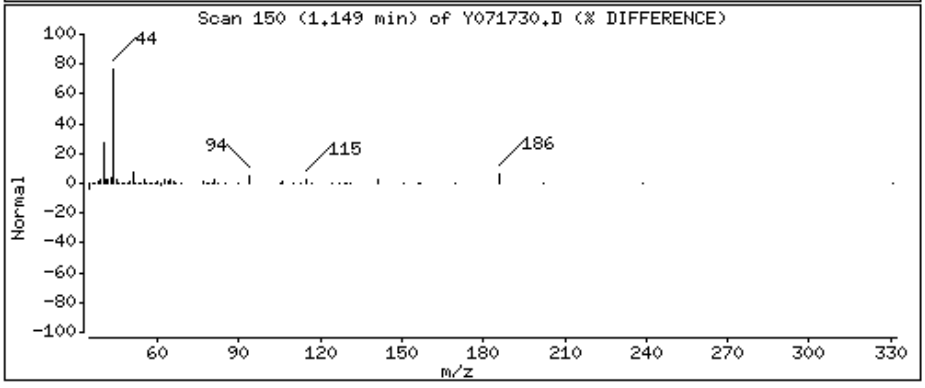












Data File: \\NAHSTWS005\Target\chem\voa6.i\X230717.b\Y071730.D

Date : 18-JUL-2023 07:43

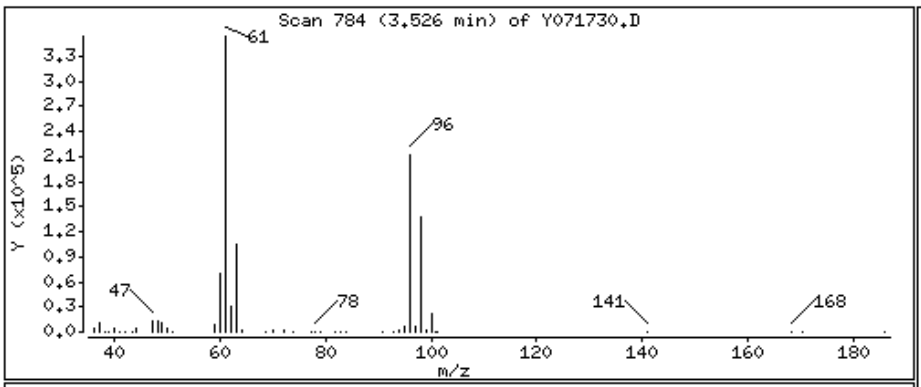
Client ID: HS23070658-04 Instrument: voa6.i

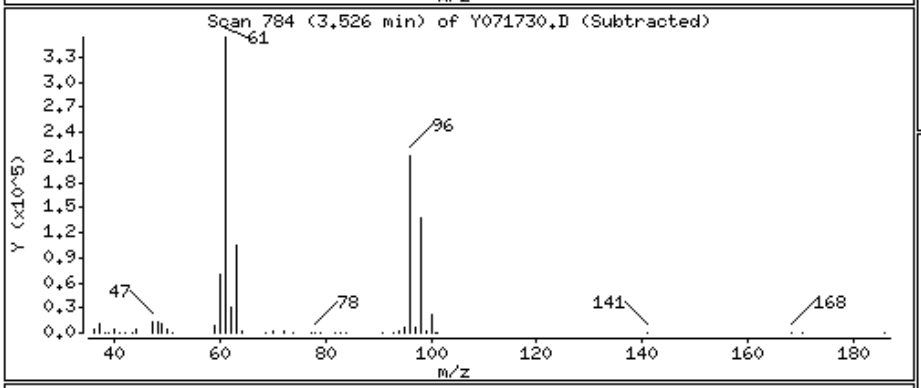
Sample Info: HS23070658-04;HS23070658-04;;;

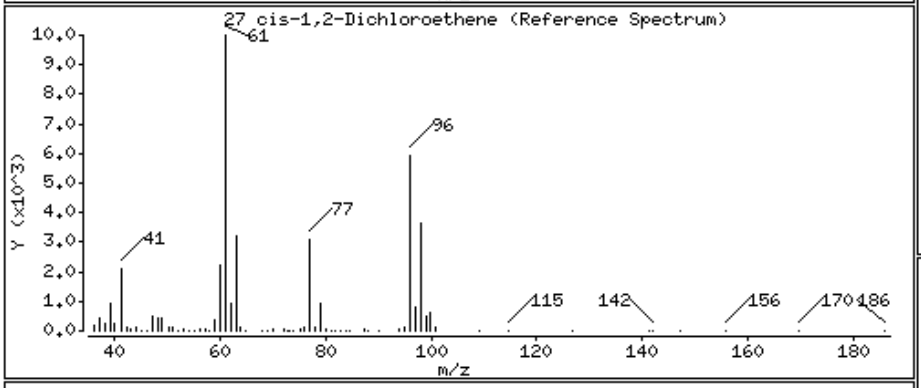
Purge Volume: 5.0 Operator: PC

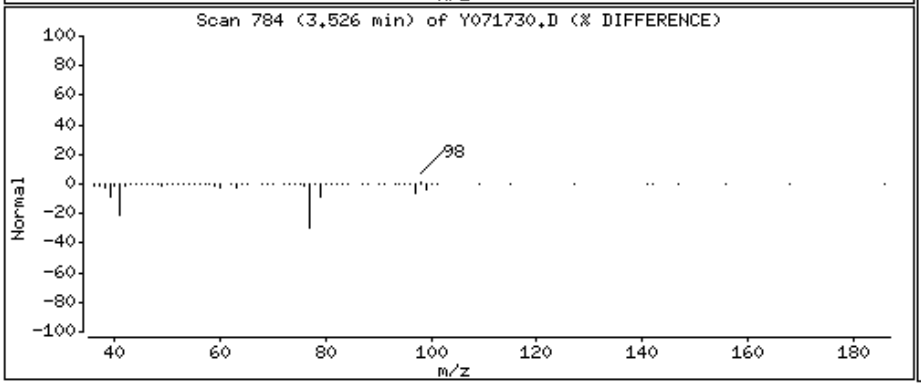
Column phase: DB624 Column diameter: 0.18

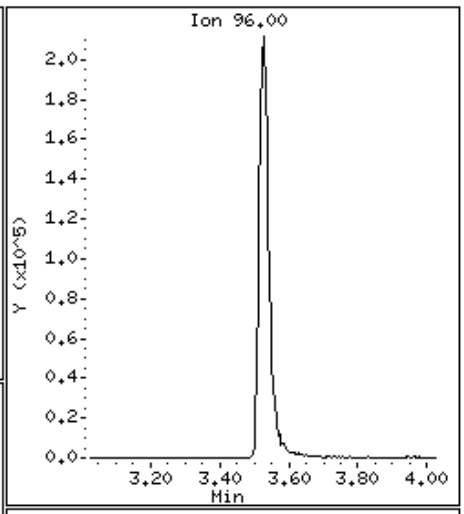
27 cis-1,2-Dichloroethene Concentration: 32801.93 ug/l

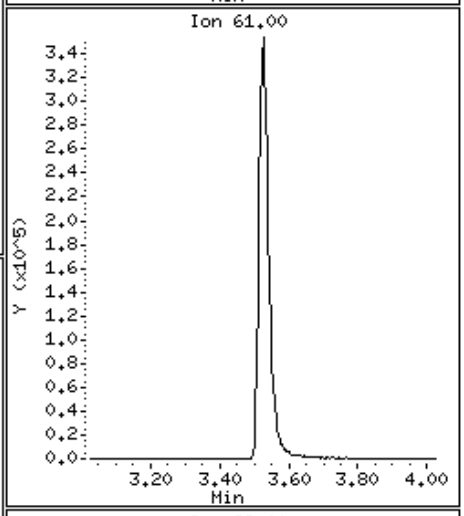


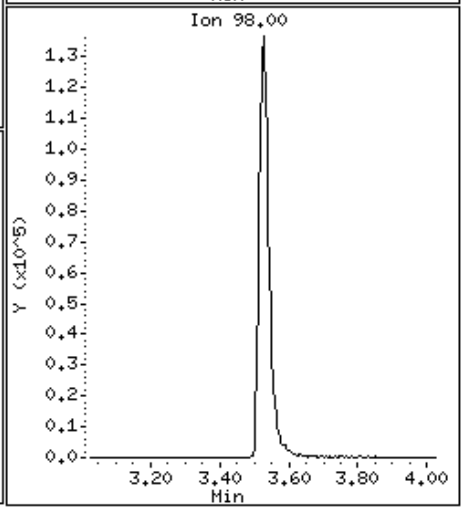












Data File: \\NAHSTWS005\Target\chem\voa6.i\X230717.b\Y071730.D

Date : 18-JUL-2023 07:43

Client ID: HS23070658-04

Instrument: voa6.i

Sample Info: HS23070658-04;HS23070658-04;;;

Purge Volume: 5.0

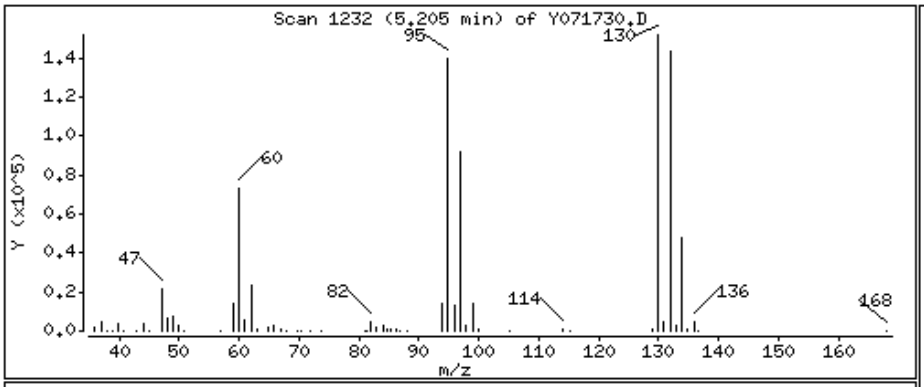
Operator: PC

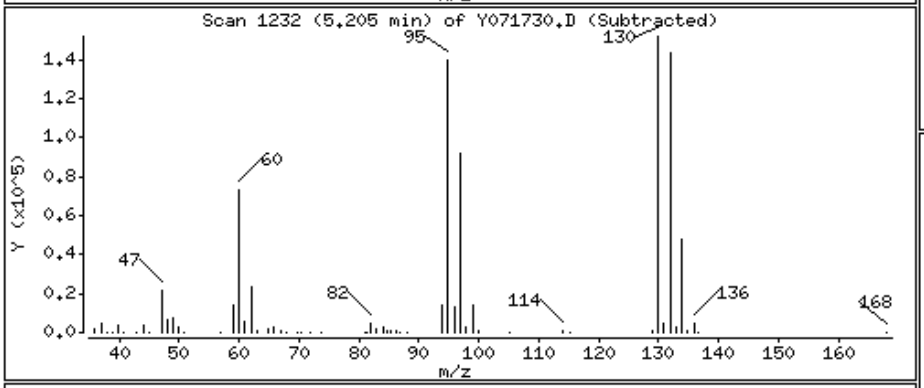
Column phase: DB624

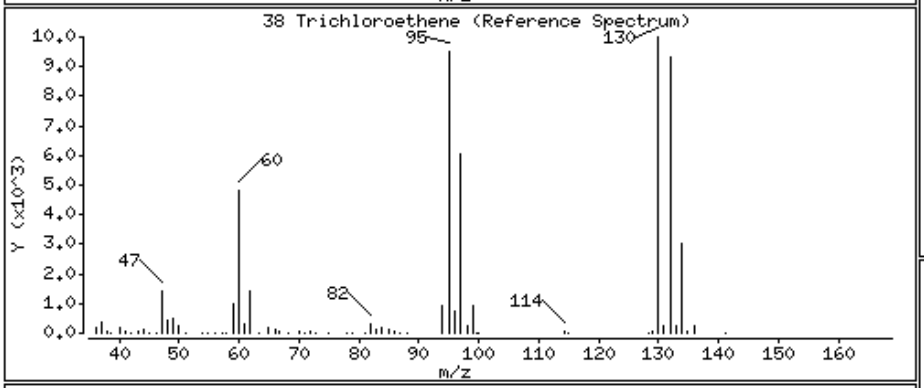
Column diameter: 0.18

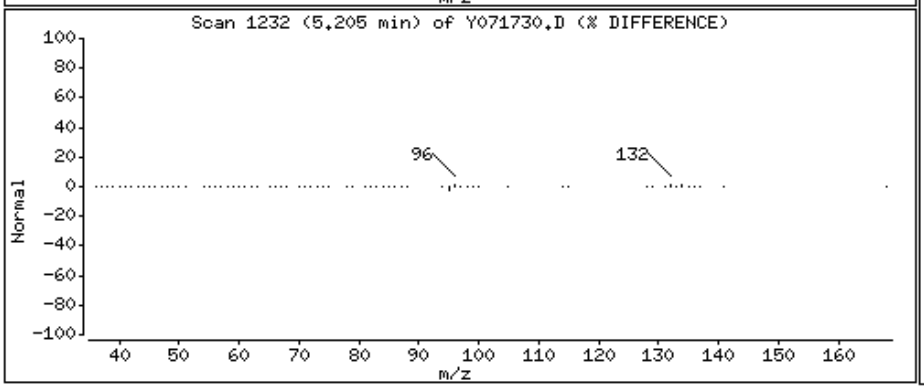
38 Trichloroethene

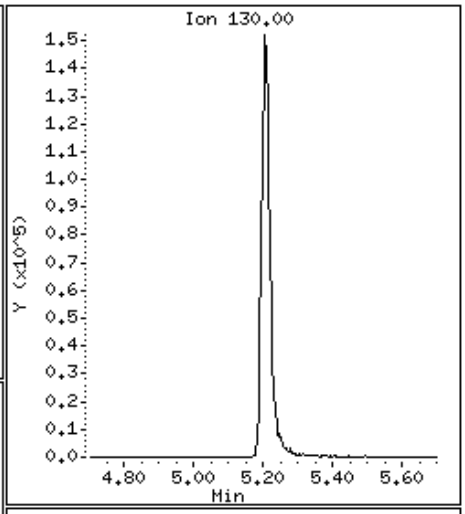
Concentration: 20620.77 ug/l

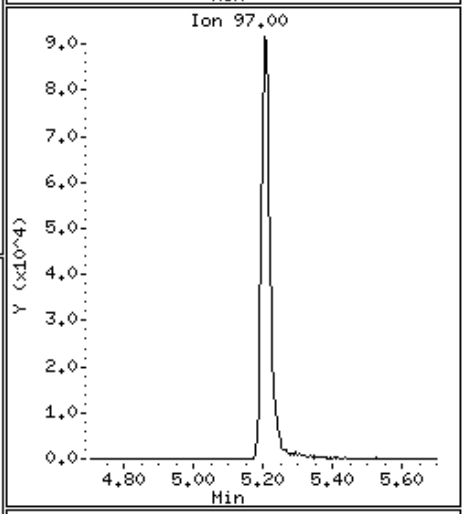


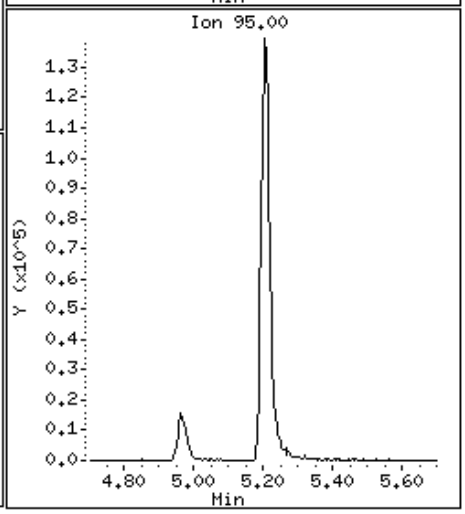












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Inj Date : 18-JUL-2023 07:43
InstruID : voa6.i
LabSampID : HS23070658-04

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230717.b\Y071731.D Page 1
Report Date: 20-Jul-2023 15:03

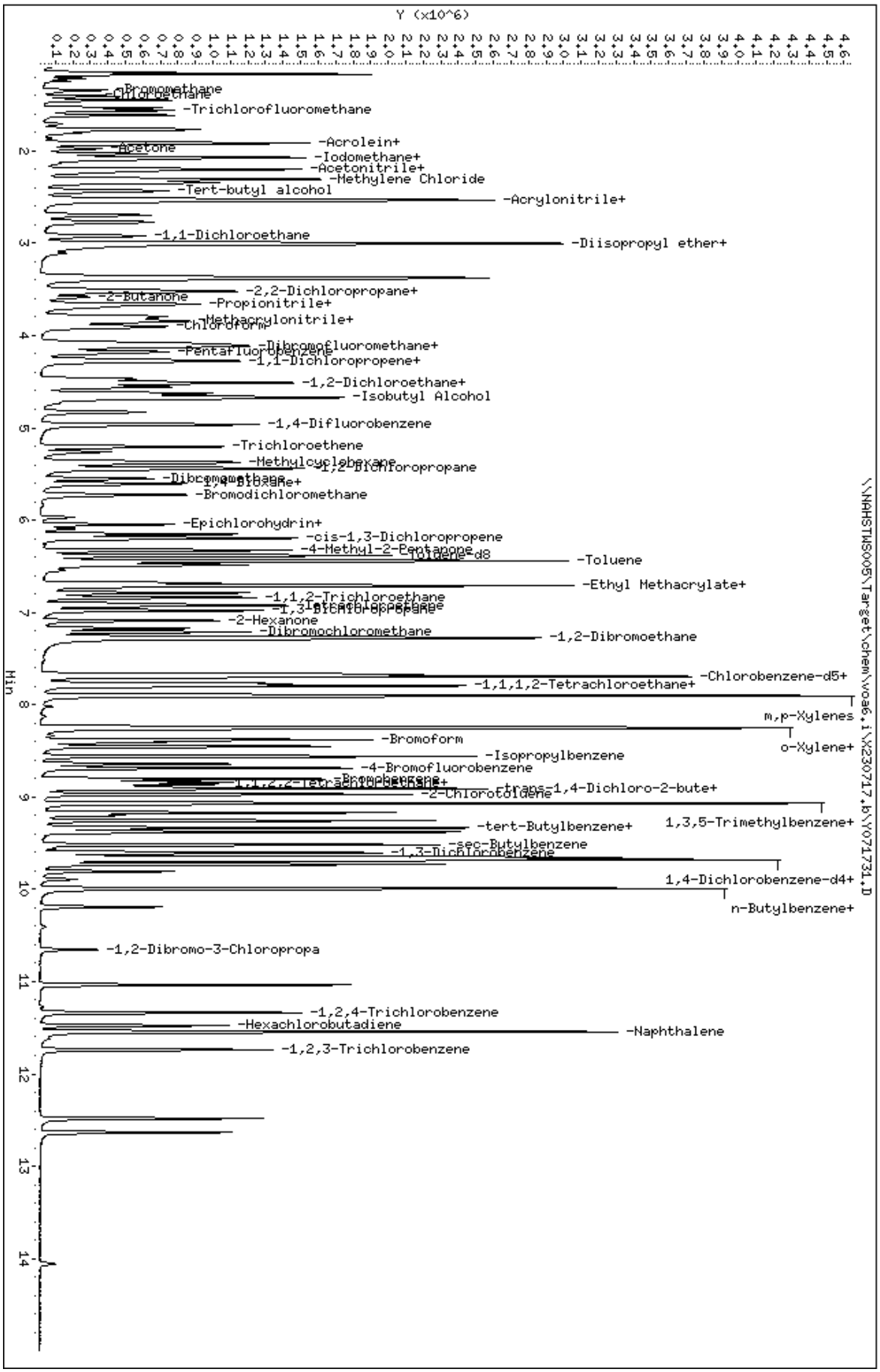
ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230717.b\Y071731.D
Lab Smp Id: CCV-END Client Smp ID: CCV-END
Inj Date : 18-JUL-2023 08:04
Operator : PC Inst ID: voa6.i
Smp Info : CCV-END;CCV-END;2;;
Misc Info : V6;WATER;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\voa6.i\X230717.b\8260W.m
Meth Date : 20-Jul-2023 15:03 voa6.i Quant Type: ISTD
Cal Date : 14-JUL-2023 14:24 Cal File: X071408.D
Als bottle: 60 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 0474-dod.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1 Pentafluorobenzene	168	4.181	4.181	(1.000)	573695	50.0000	
$ 30 Dibromofluoromethane	113	4.099	4.099	(0.980)	298982	50.0000	56.96
$ 35 1,2-Dichloroethane-d4	65	4.470	4.470	(1.069)	364028	50.0000	55.43
* 36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	988051	50.0000	
* 47 Chlorobenzene-d5	117	7.667	7.667	(1.000)	904392	50.0000	
$ 48 Toluene-d8	98	6.382	6.382	(0.832)	1111588	50.0000	47.73
$ 69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	470619	50.0000	52.28
* 70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	466938	50.0000	
5 Vinyl Chloride	62	1.145	1.145	(0.274)	455164	50.0000	61.31
11 1,1-Dichloroethene	96	1.917	1.917	(0.459)	255159	50.0000	60.70
17 Methylene Chloride	84	2.303	2.303	(0.551)	300379	50.0000	60.86
27 cis-1,2-Dichloroethene	96	3.525	3.525	(0.843)	338010	50.0000	54.57
33 1,2-Dichloroethane	62	4.556	4.556	(0.918)	538192	50.0000	49.48
38 Trichloroethene	130	5.201	5.201	(1.048)	336612	50.0000	50.35
53 1,1,2-Trichloroethane	83	6.835	6.835	(0.891)	257973	50.0000	49.95
20 trans-1,2-Dichloroethene	96	2.528	2.528	(0.605)	276291	50.0000	56.83



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230717.b\Y071731.D
Date : 18-JUL-2023 08:04
Client ID: CCV-END
Sample Info: CCV-END;CCV-END;2;;
Purge Volume: 5.0
Column phase: DB624

Instrument: voa6.i
Operator: PC
Column diameter: 0.18

Data File : \\NAHSTWS005\Target\chem\voa6.i\X230717.b\Y071731.D
Inj Date : 18-JUL-2023 08:04
InstruID : voa6.i
LabSampID : CCV-END

NO MANUAL INTEGRATIONS

right solutions.
right partner.

Raw Data VOA6 441712

Volatiles by EPA 8260

Workorder

HS23070658

Client

Bhate Environmental Associates, Inc.

Project

LHAAP Site 16

07/25/2023

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230718.b\Y071801.D
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 18-JUL-2023 21:14
Operator : PC Inst ID: voa6.i
Smp Info : BFB;BFB;3;;BFB
Misc Info : V6;WATER;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\voa6.i\X230718.b\bfb.m
Meth Date : 14-Mar-2023 15:45 Linh.Pham Quant Type: ISTD
Cal Date : Cal File:
Als bottle: 31 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: NAHSTW7051

Concentration Formula: Amt * DF * Uf * Vf * Vi * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vf	1.000	Volumetric correction factor
Vi	2.000	Injection Volume
Cpnd Variable		Local Compound Variable

					CONCENTRATIONS ON-COL (ug/L)	CONCENTRATIONS FINAL (ug/l)		
RT	EXP RT	REL RT	MASS	RESPONSE			TARGET RANGE	RATIO
1 bfb							CAS #: 460-00-4	
8.687	8.889	(0.000)	95	137088			0.00- 100.00	100.00
8.687	8.889	(0.000)	50	30288			15.00- 40.00	22.09
8.687	8.889	(0.000)	75	60384			30.00- 60.00	44.05
8.687	8.889	(0.000)	96	10146			5.00- 9.00	7.40
8.687	8.889	(0.000)	173	0	0.0	0.0	0.00- 2.00	0.00
8.687	8.889	(0.000)	174	103456			50.00- 0.00	75.47
8.687	8.889	(0.000)	175	8492			5.00- 9.00	8.21
8.687	8.889	(0.000)	176	98520			95.00- 101.00	95.23
8.687	8.889	(0.000)	177	7663			5.00- 9.00	7.78

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	22.09
75	30.00 - 60.00% of mass 95	44.05
96	5.00 - 9.00% of mass 95	7.40
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	75.47
175	5.00 - 9.00% of mass 174	6.19 (8.21)
176	95.00 - 101.00% of mass 174	71.87 (95.23)
177	5.00 - 9.00% of mass 176	5.59 (7.78)

Data File: Y071801.D
Spectrum: Scan 2159 (8.68), Background Scan 2154
Location of Maximum: 95.00
Number of points: 82

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.90	1226	74.00	21792	109.00	805	144.10	74
37.10	7246	75.00	60384	110.10	173	146.00	104
38.20	5461	76.10	4822	115.00	19	147.90	625
44.00	596	76.90	712	115.90	458	148.80	107
45.10	1702	79.00	3182	116.80	792	152.10	208
47.10	2398	81.00	2669	118.00	471	152.70	94
47.90	846	81.70	660	119.00	721	154.70	418
49.10	6896	85.00	316	125.40	57	157.10	362
50.00	30288	87.00	5495	126.00	315	157.90	175
51.10	11100	88.00	5354	127.00	579	158.90	188
57.10	3884	91.00	279	127.70	539	172.40	857
58.10	89	91.90	2269	129.10	370	174.00	103456
60.00	1836	93.00	4846	129.80	373	175.00	8492
61.10	7088	94.00	15228	131.20	240	176.00	98520
62.00	6434	95.00	137088	134.70	125	177.00	7663
63.00	4474	96.10	10146	135.70	58	178.00	494
64.00	295	103.60	489	136.80	182	232.80	73
68.00	12908	104.10	181	139.80	102	234.00	82
69.10	7903	104.90	333	141.10	1201	235.80	144
71.90	830	105.90	368	141.90	171		
73.10	5809	106.80	238	143.00	860		

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230718.b\Y071801.D Page 1

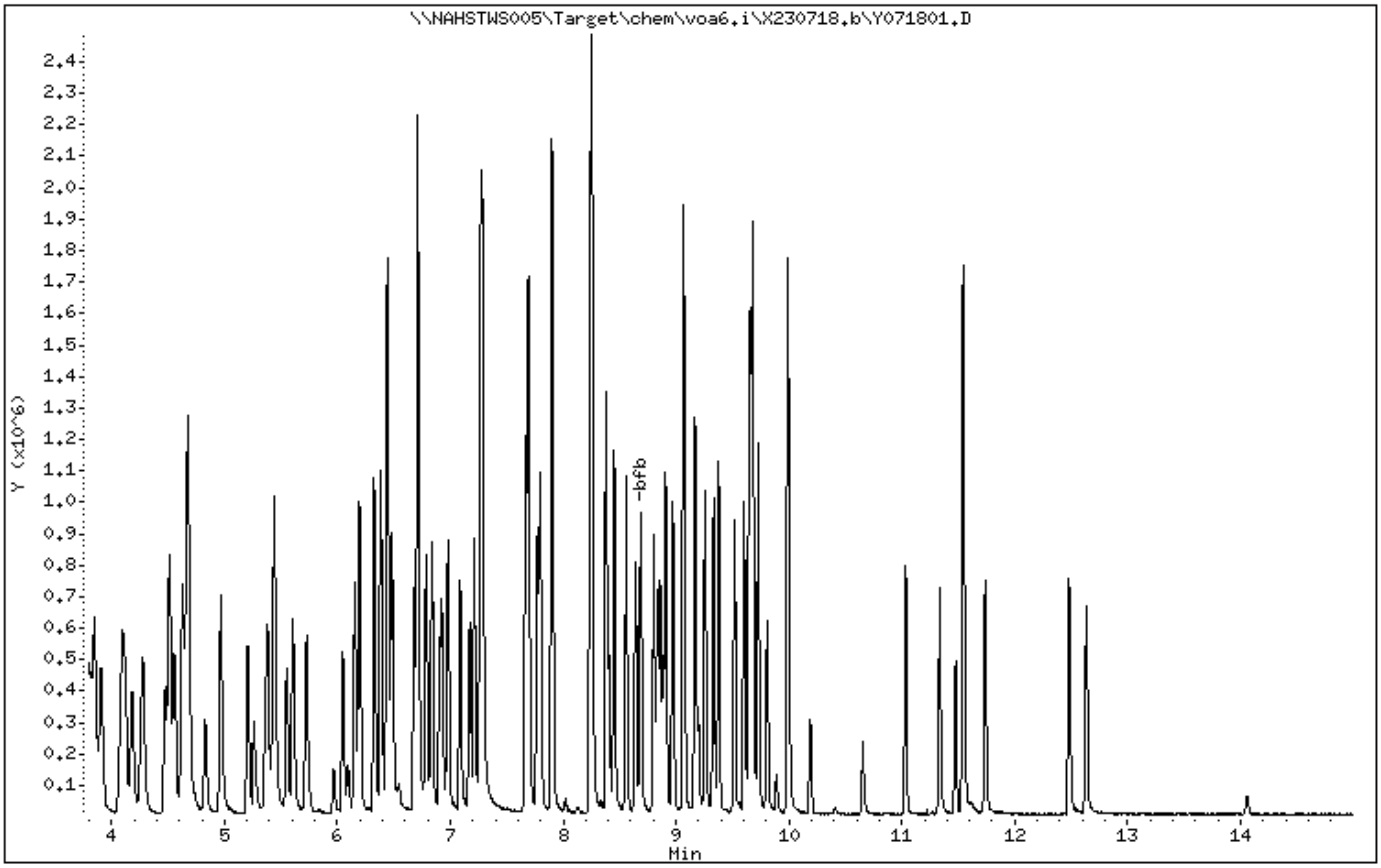
Date : 18-JUL-2023 21:14

Client ID: BFB Instrument: voa6.i

Sample Info: BFB;BFB;3;;BFB

Volume Injected (uL): 2.0 Operator: PC

Column phase: DB624 Column diameter: 0.25



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230718.b\Y071801.D Page 2

Date : 18-JUL-2023 21:14

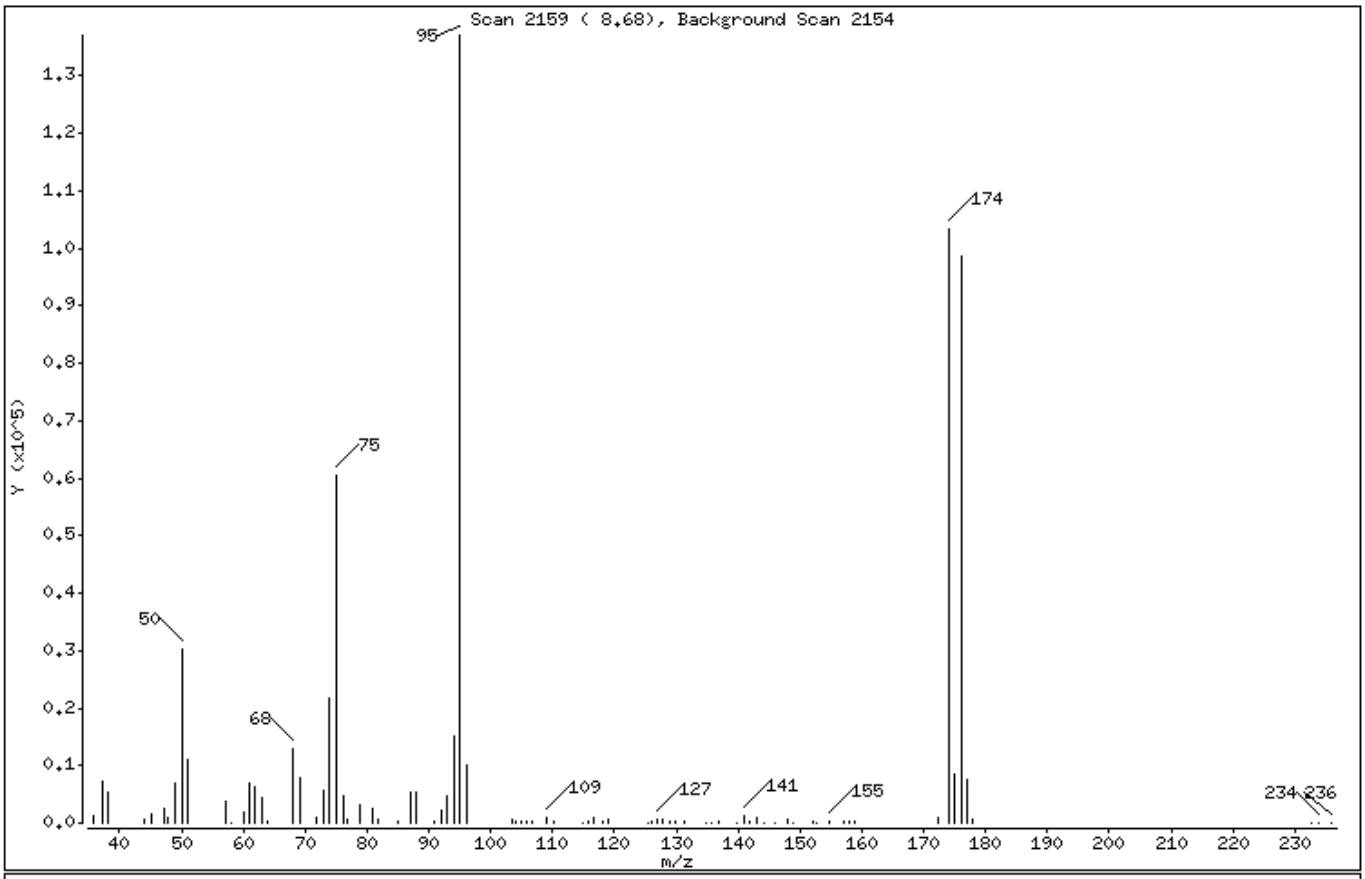
Client ID: BFB Instrument: voa6.i

Sample Info: BFB;BFB;3;;BFB

Volume Injected (uL): 2.0 Operator: PC

Column phase: DB624 Column diameter: 0.25

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	22.09
75	30.00 - 60.00% of mass 95	44.05
96	5.00 - 9.00% of mass 95	7.40
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	75.47
175	5.00 - 9.00% of mass 174	6.19 (8.21)
176	95.00 - 101.00% of mass 174	71.87 (95.23)
177	5.00 - 9.00% of mass 176	5.59 (7.78)

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230718.b\Y071801.D

Date : 18-JUL-2023 21:14

Client ID: BFB Instrument: voa6.i

Sample Info: BFB;BFB;3;;BFB

Volume Injected (uL): 2.0 Operator: PC

Column phase: DB624 Column diameter: 0.25

Data File: Y071801.D
Spectrum: Scan 2159 (8.68), Background Scan 2154
Location of Maximum: 95.00
Number of points: 82

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.90	1226	74.00	21792	109.00	805	144.10	74
37.10	7246	75.00	60384	110.10	173	146.00	104
38.20	5461	76.10	4822	115.00	19	147.90	625
44.00	596	76.90	712	115.90	458	148.80	107
45.10	1702	79.00	3182	116.80	792	152.10	208
47.10	2398	81.00	2669	118.00	471	152.70	94
47.90	846	81.70	660	119.00	721	154.70	418
49.10	6896	85.00	316	125.40	57	157.10	362
50.00	30288	87.00	5495	126.00	315	157.90	175
51.10	11100	88.00	5354	127.00	579	158.90	188
57.10	3884	91.00	279	127.70	539	172.40	857
58.10	89	91.90	2269	129.10	370	174.00	103456
60.00	1836	93.00	4846	129.80	373	175.00	8492
61.10	7088	94.00	15228	131.20	240	176.00	98520
62.00	6434	95.00	137088	134.70	125	177.00	7663
63.00	4474	96.10	10146	135.70	58	178.00	494
64.00	295	103.60	489	136.80	182	232.80	73
68.00	12908	104.10	181	139.80	102	234.00	82
69.10	7903	104.90	333	141.10	1201	235.80	144
71.90	830	105.90	368	141.90	171		
73.10	5809	106.80	238	143.00	860		

Data File : \\nahstws005\target\chem\voa6.i\x230718.b\y071801.d
Inj Date : 18-JUL-2023 21:14
InstruID : voa6.i
LabSampID : BFB

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230718.b\Y071803.D Page 1
Report Date: 25-Jul-2023 12:39

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230718.b\Y071803.D
Lab Smp Id: CCV Client Smp ID: CCV
Inj Date : 18-JUL-2023 21:55
Operator : PC Inst ID: voa6.i
Smp Info : CCV;CCV;2;;
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230718.b\8260W.m
Meth Date : 25-Jul-2023 12:39 voa6.i Quant Type: ISTD
Cal Date : 14-JUL-2023 14:24 Cal File: X071408.D
Als bottle: 32 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1 Pentafluorobenzene	168	4.178	4.178	(1.000)	478168	50.0000	
135 1,4-Dioxane	88	5.598	5.598	(1.340)	56419	1000.00	992.92
140 1,3-Butadiene	54	1.167	1.167	(0.280)	330310	50.0000	53.75
25 Methacrylonitrile	41	3.829	3.829	(0.917)	338192	50.0000	54.79
12 Isobutyl Alcohol	43	4.676	4.676	(1.119)	952303	1000.00	1050.64
13 Acetonitrile	39	2.198	2.198	(0.526)	392347	500.000	585.13
14 Allyl Chloride	41	2.198	2.198	(0.526)	914367	50.0000	58.24
4 Propionitrile	54	3.657	3.657	(0.875)	502748	500.000	530.76
72 trans-1,4-Dichloro-2-butene	53	8.886	8.886	(1.159)	109259	50.0000	51.62
194 Acetaldehyde	44	1.212	1.212	(0.290)	100902	200.000	239.16(M)
23 Chloroprene	53	1.775	1.775	(0.425)	122037	50.0000	56.76(M)
130 Ethyl Acetate	43	3.657	3.657	(0.875)	358723	50.0000	50.50
40 Methyl Methacrylate	41	5.606	5.606	(1.342)	313198	50.0000	54.26
49 Ethyl Methacrylate	69	6.712	6.712	(1.352)	234553	50.0000	47.96
131 Methyl Acrylate	55	3.694	3.694	(0.884)	399353	50.0000	61.44
2 Dichlorodifluoromethane	85	0.976	0.976	(0.234)	223741	50.0000	45.83
3 Chloromethane	50	1.081	1.081	(0.259)	317196	50.0000	43.91
5 Vinyl Chloride	62	1.145	1.145	(0.274)	318208	50.0000	51.42
6 Bromomethane	94	1.340	1.340	(0.321)	118921	50.0000	46.44
7 Chloroethane	64	1.407	1.407	(0.337)	175309	50.0000	49.62

8	Trichlorofluoromethane	101	1.561	1.561 (0.374)	335100	50.0000	53.43
9	Acrolein	56	1.861	1.861 (0.446)	26680	100.000	146.81

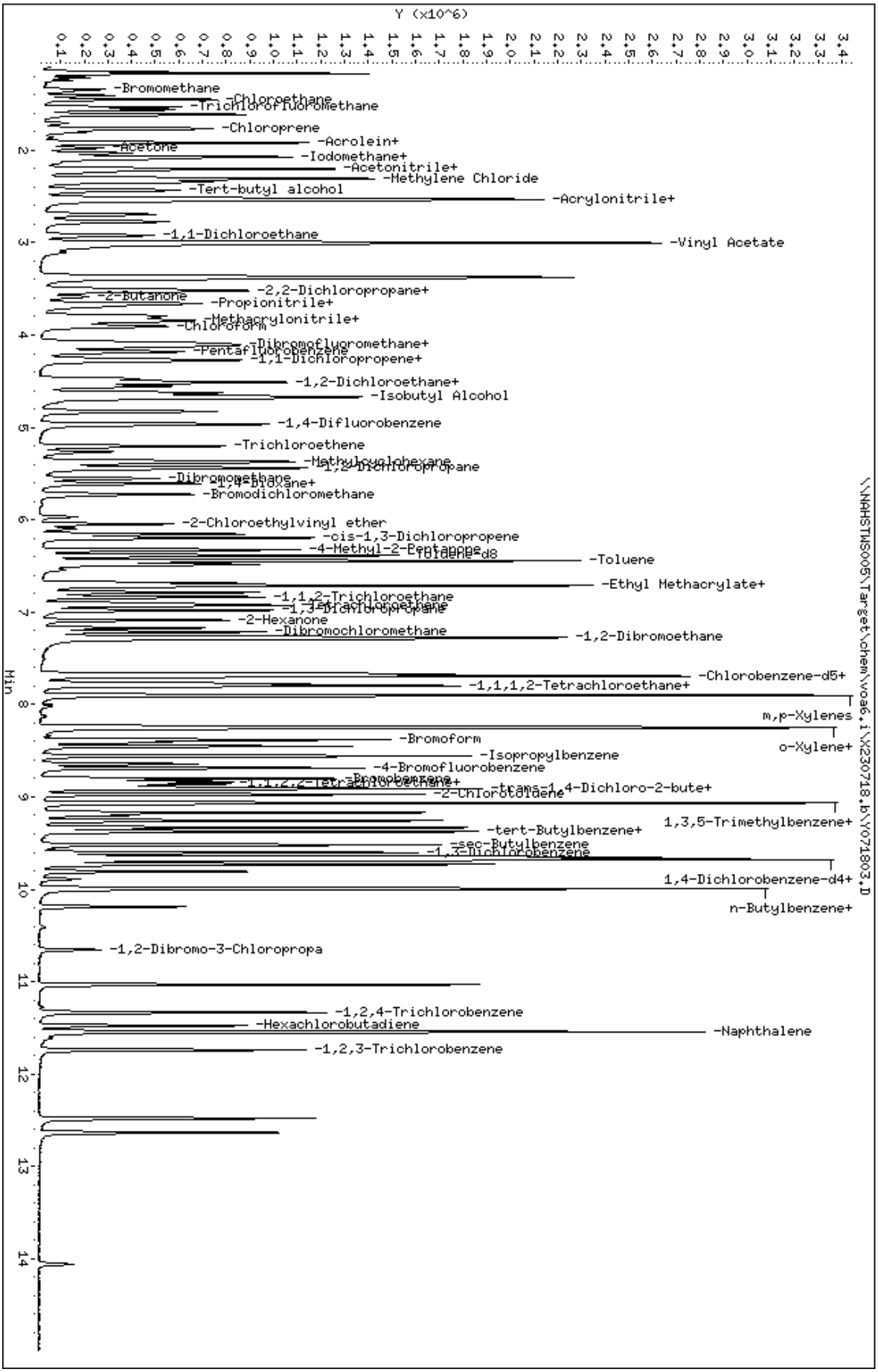
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	10 Acetone	43	1.973	1.973	(0.472)	220288	100.000	117.24
	11 1,1-Dichloroethene	96	1.917	1.917	(0.459)	172169	50.0000	49.14
	15 Iodomethane	142	2.030	2.030	(0.486)	389143	100.000	85.16
	16 Acrylonitrile	53	2.536	2.536	(0.607)	273433	100.000	117.34
	17 Methylene Chloride	84	2.303	2.303	(0.551)	217376	50.0000	52.65
	18 Methyl tert-butyl ether	73	2.539	2.539	(0.608)	697027	50.0000	53.50
	19 Carbon Disulfide	76	2.071	2.071	(0.496)	1068861	100.000	97.06
	20 trans-1,2-Dichloroethene	96	2.532	2.532	(0.606)	200362	50.0000	49.44
	21 Vinyl Acetate	43	3.001	3.001	(0.718)	1904862	100.000	113.66
	22 1,1-Dichloroethane	63	2.918	2.918	(0.699)	458485	50.0000	51.56
	24 2-Butanone	43	3.585	3.585	(0.858)	260744	100.000	102.39
	26 2,2-Dichloropropane	77	3.507	3.507	(0.839)	318228	50.0000	46.11
	27 cis-1,2-Dichloroethene	96	3.529	3.529	(0.845)	250299	50.0000	48.48
	28 Chloroform	83	3.904	3.904	(0.935)	431816	50.0000	47.46
	29 Bromochloromethane	128	3.795	3.795	(0.908)	140687	50.0000	48.63
$	30 Dibromofluoromethane	113	4.099	4.099	(0.981)	232483	50.0000	53.09
	31 1,1,1-Trichloroethane	97	4.080	4.080	(0.977)	343897	50.0000	49.10
	32 1,1-Dichloropropene	75	4.279	4.279	(0.862)	300884	50.0000	49.40
	33 1,2-Dichloroethane	62	4.556	4.556	(0.918)	419471	50.0000	51.03
	34 Carbon Tetrachloride	117	4.260	4.260	(0.858)	290666	50.0000	47.37
$	35 1,2-Dichloroethane-d4	65	4.470	4.470	(1.070)	292100	50.0000	53.34
*	36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	746690	50.0000	
	37 Benzene	78	4.511	4.511	(0.909)	875996	50.0000	49.04
	38 Trichloroethene	130	5.205	5.205	(1.048)	245719	50.0000	48.63
	39 Bromodichloromethane	83	5.726	5.726	(1.153)	334382	50.0000	48.87
	41 2-Chloroethylvinyl ether	63	6.048	6.048	(1.218)	210495	100.000	100.77
	42 1,2-Dichloropropane	63	5.437	5.437	(1.095)	295680	50.0000	51.48
	44 Dibromomethane	93	5.553	5.553	(1.119)	160252	50.0000	49.29
	45 4-Methyl-2-Pentanone	43	6.326	6.326	(0.825)	693635	100.000	101.30
	46 cis-1,3-Dichloropropene	75	6.153	6.153	(1.239)	391830	50.0000	49.86
*	47 Chlorobenzene-d5	117	7.668	7.668	(1.000)	695833	50.0000	
$	48 Toluene-d8	98	6.386	6.386	(0.833)	839689	50.0000	46.86
	50 Toluene	91	6.446	6.446	(0.841)	946922	50.0000	50.55
	51 trans-1,3-Dichloropropene	75	6.682	6.682	(1.346)	336380	50.0000	50.78
	52 2-Hexanone	43	7.087	7.087	(0.924)	461768	100.000	102.66
	53 1,1,2-Trichloroethane	83	6.839	6.839	(0.892)	198973	50.0000	50.07
	54 1,3-Dichloropropane	76	6.978	6.978	(0.910)	403993	50.0000	49.76
	55 Dibromochloromethane	129	7.173	7.173	(0.935)	293332	50.0000	51.13
	56 Tetrachloroethene	164	6.925	6.925	(0.903)	190108	50.0000	49.12
	57 1,2-Dibromoethane	107	7.259	7.259	(0.947)	223111	50.0000	49.13
	58 1-Chlorohexane	55	7.694	7.694	(1.550)	267250	50.0000	44.55
	59 Chlorobenzene	112	7.694	7.694	(1.003)	632121	50.0000	48.27
	60 1,1,1,2-Tetrachloroethane	131	7.773	7.773	(1.014)	255848	50.0000	49.91
	61 Ethylbenzene	106	7.795	7.795	(1.017)	310284	50.0000	47.25
	62 m,p-Xylenes	106	7.900	7.900	(1.030)	791185	100.000	96.05
	63 o-Xylene	106	8.237	8.237	(1.074)	394878	50.0000	50.62
	64 Styrene	104	8.256	8.256	(1.077)	687451	50.0000	50.52
	66 Bromoform	173	8.410	8.410	(1.097)	189737	50.0000	51.55
	67 Isopropylbenzene	105	8.556	8.556	(1.116)	972985	50.0000	48.52
	68 1,1,2,2-Tetrachloroethane	83	8.837	8.837	(0.915)	314229	50.0000	49.57
$	69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	355690	50.0000	51.35
*	70 1,4-Dichlorobenzene-d4	152	9.658	9.658	(1.000)	377358	50.0000	

71 1,2,3-Trichloropropane	75	8.863	8.863 (0.918)	249239	50.0000	49.55(M)
73 n-Propylbenzene	91	8.908	8.908 (0.922)	1104039	50.0000	48.41

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)	
	74 Bromobenzene	156	8.803	8.803	(0.912)	286386	50.0000	48.52	
	75 1,3,5-Trimethylbenzene	105	9.066	9.066	(0.939)	805862	50.0000	47.17	
	76 2-Chlorotoluene	91	8.972	8.972	(0.929)	730491	50.0000	47.48	
	77 4-Chlorotoluene	91	9.070	9.070	(0.939)	830385	50.0000	49.12	
	78 tert-Butylbenzene	119	9.336	9.336	(0.967)	691916	50.0000	47.23	
	79 1,2,4-Trimethylbenzene	105	9.377	9.377	(0.971)	831070	50.0000	48.51	
	81 sec-Butylbenzene	105	9.519	9.519	(0.986)	946234	50.0000	48.45	
	82 p-Isopropyltoluene	119	9.647	9.647	(0.999)	835812	50.0000	46.85	
	83 1,3-Dichlorobenzene	146	9.602	9.602	(0.994)	505910	50.0000	49.20	
	84 1,4-Dichlorobenzene	146	9.681	9.681	(1.002)	533699	50.0000	47.34	
	87 n-Butylbenzene	91	9.992	9.992	(1.035)	727834	50.0000	48.71	
	88 1,2-Dichlorobenzene	146	9.992	9.992	(1.035)	519769	50.0000	51.42	
	89 1,2-Dibromo-3-Chloropropane	155	10.651	10.651	(1.103)	51569	50.0000	49.50	
	90 1,2,4-Trichlorobenzene	180	11.334	11.334	(1.173)	325078	50.0000	46.82	
	91 Hexachlorobutadiene	225	11.476	11.476	(1.188)	139411	50.0000	43.88	
	92 Naphthalene	128	11.540	11.540	(1.195)	872473	50.0000	50.77	
	93 1,2,3-Trichlorobenzene	180	11.739	11.739	(1.215)	308553	50.0000	47.52	
M	94 1,2-Dichloroethylene (total)	96				450661	100.000		(a)
	141 Cyclohexane	56	4.118	4.118	(0.986)	406096	50.0000	48.99	
	138 Freon TF	101	1.917	1.917	(0.459)	168306	50.0000	55.94	
	147 Methylcyclohexane	55	5.381	5.381	(1.084)	849399	50.0000	53.89	
	146 Methyl Acetate	43	2.232	2.232	(0.534)	260146	50.0000	61.13	
	148 Tert-Butyl alcohol	59	2.434	2.434	(0.583)	644884	1000.00	1068.55	
	149 Isopropyl Alcohol	45	2.097	2.097	(0.502)	424642	1000.00	1133.94	

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.



Data File: \\NAHSTMS005\Target\chem\voa6.i\X230718.b\Y071803.D
Date : 18-JUL-2023 21:55
Client ID: CCV
Sample Info: CCV;CCV;2;;
Purge Volume: 5.0
Column phase: DB624

Instrument: voa6.i
Operator: PC
Column diameter: 0.18

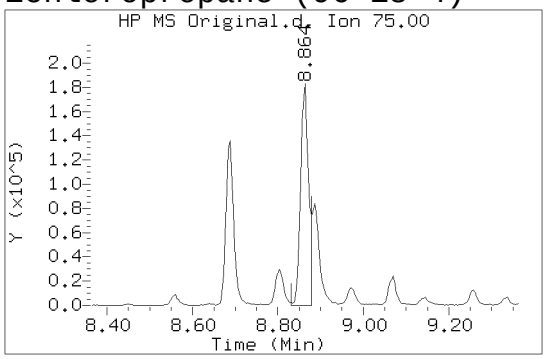
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230718.b\Y071803.D
Inj Date : 18-JUL-2023 21:55
InstruID : voa6.i
LabSampID : CCV

1,2,3-Trichloropropane (96-18-4)

Reason Code:

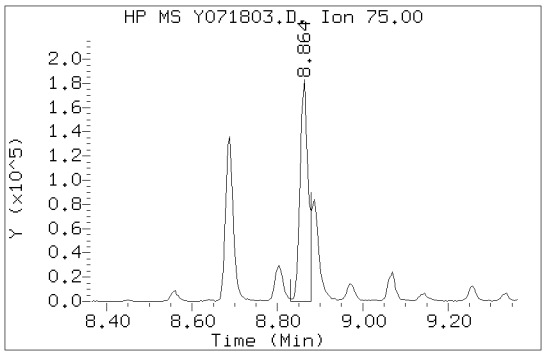
BEFORE

MASS
75
AREA
249239
HEIGHT
182959
25-Jul-2023
12:38
linh
pham



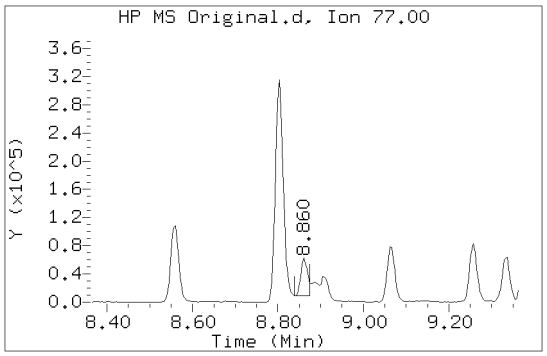
AFTER

MASS
75
AREA
249239
HEIGHT
182959
25-Jul-2023
12:38
linh
pham



BEFORE

MASS
77
AREA
61269
HEIGHT
53833
25-Jul-2023
12:38
linh
pham



AFTER

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61269
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53833
25-Jul-2023
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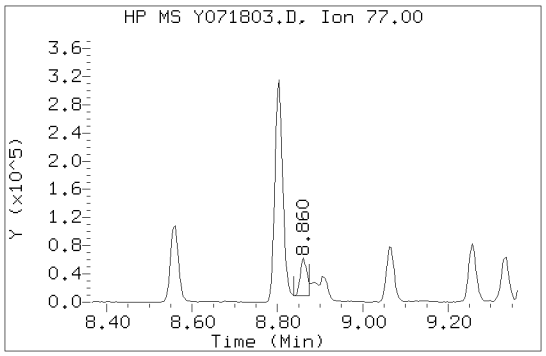

Chloroprene (126-99-8)

Reason Code:

BEFORE

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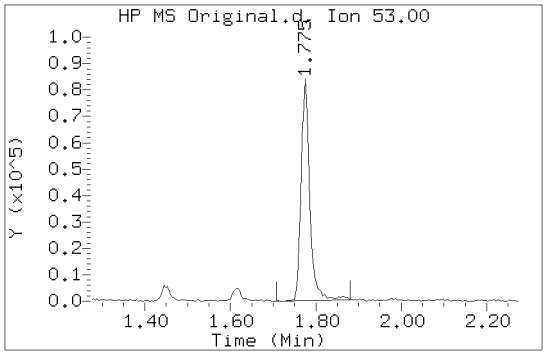

AFTER

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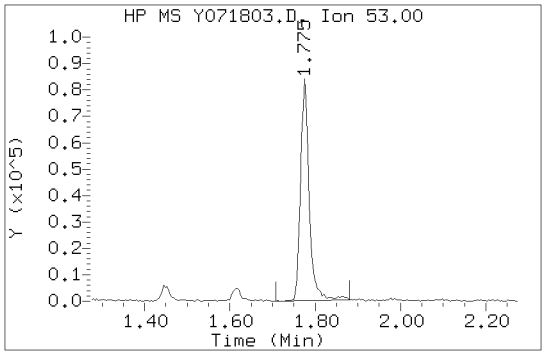

BEFORE

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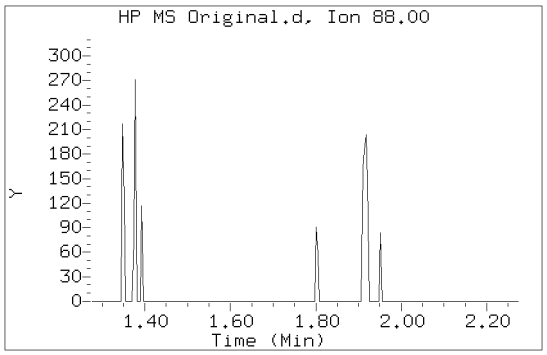

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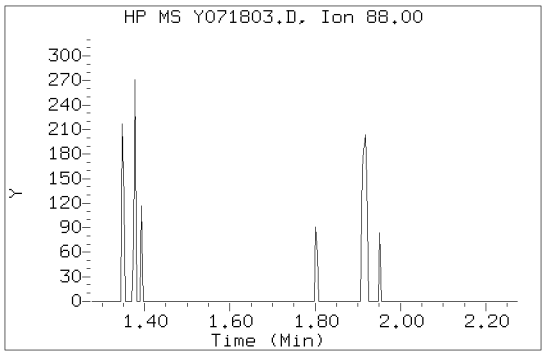

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Inj Date : 18-JUL-2023 21:55
InstruID : voa6.i
LabSampID : CCV

Acetaldehyde (75-07-0)

Reason Code:

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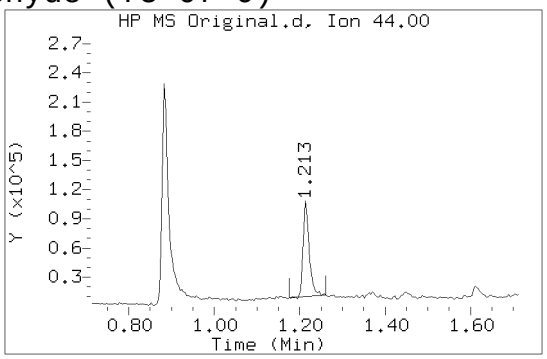

AFTER

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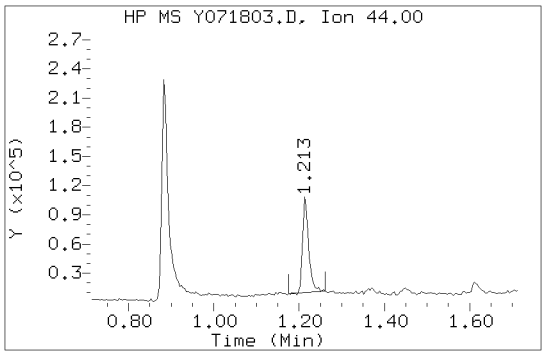

BEFORE

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25-Jul-2023
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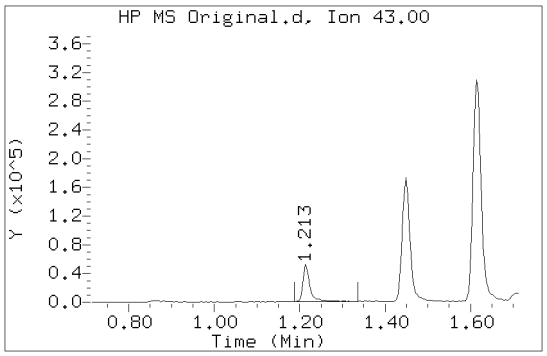

AFTER

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25-Jul-2023
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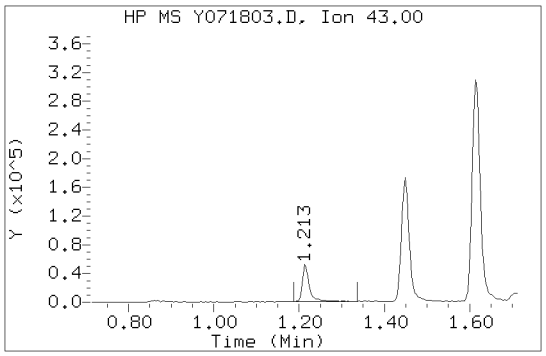

BEFORE

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12:38
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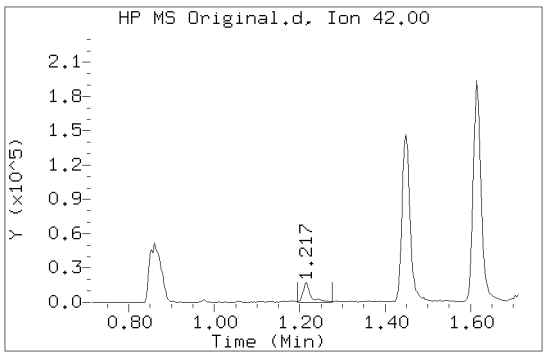

AFTER

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AREA
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HEIGHT
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25-Jul-2023
12:38
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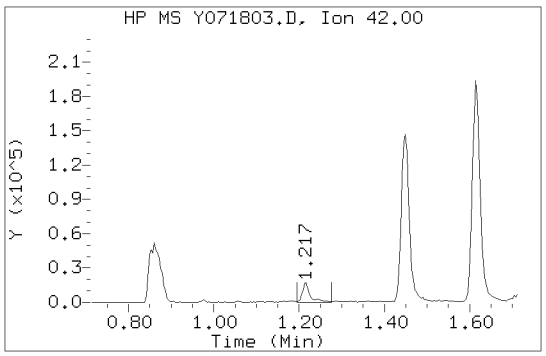


Data File: \\NAHSTWS005\Target\chem\voa6.i\X230718.b\Y071804.D Page 1
Report Date: 25-Jul-2023 12:39

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230718.b\Y071804.D
Lab Smp Id: CCB Client Smp ID: CCB
Inj Date : 18-JUL-2023 22:15
Operator : PC Inst ID: voa6.i
Smp Info : CCB;CCB;;;
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230718.b\8260W.m
Meth Date : 25-Jul-2023 12:39 voa6.i Quant Type: ISTD
Cal Date : 14-JUL-2023 14:24 Cal File: X071408.D
Als bottle: 33
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.181	4.178	(1.000)	511950	50.0000	
$ 30 Dibromofluoromethane	113	4.103	4.099	(0.981)	246977	52.6773	52.67
$ 35 1,2-Dichloroethane-d4	65	4.474	4.470	(1.070)	305140	52.0293	52.02
* 36 1,4-Difluorobenzene	114	4.969	4.965	(1.000)	751948	50.0000	
* 47 Chlorobenzene-d5	117	7.668	7.668	(1.000)	672253	50.0000	
$ 48 Toluene-d8	98	6.386	6.386	(0.833)	880074	50.8465	50.84
$ 69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	302571	45.1629	45.16
* 70 1,4-Dichlorobenzene-d4	152	9.662	9.658	(1.000)	353307	50.0000	

01321111

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230718.b\Y071804.D

Page 1

Date : 18-JUL-2023 22:15

Client ID: CCB

Instrument: voa6.i

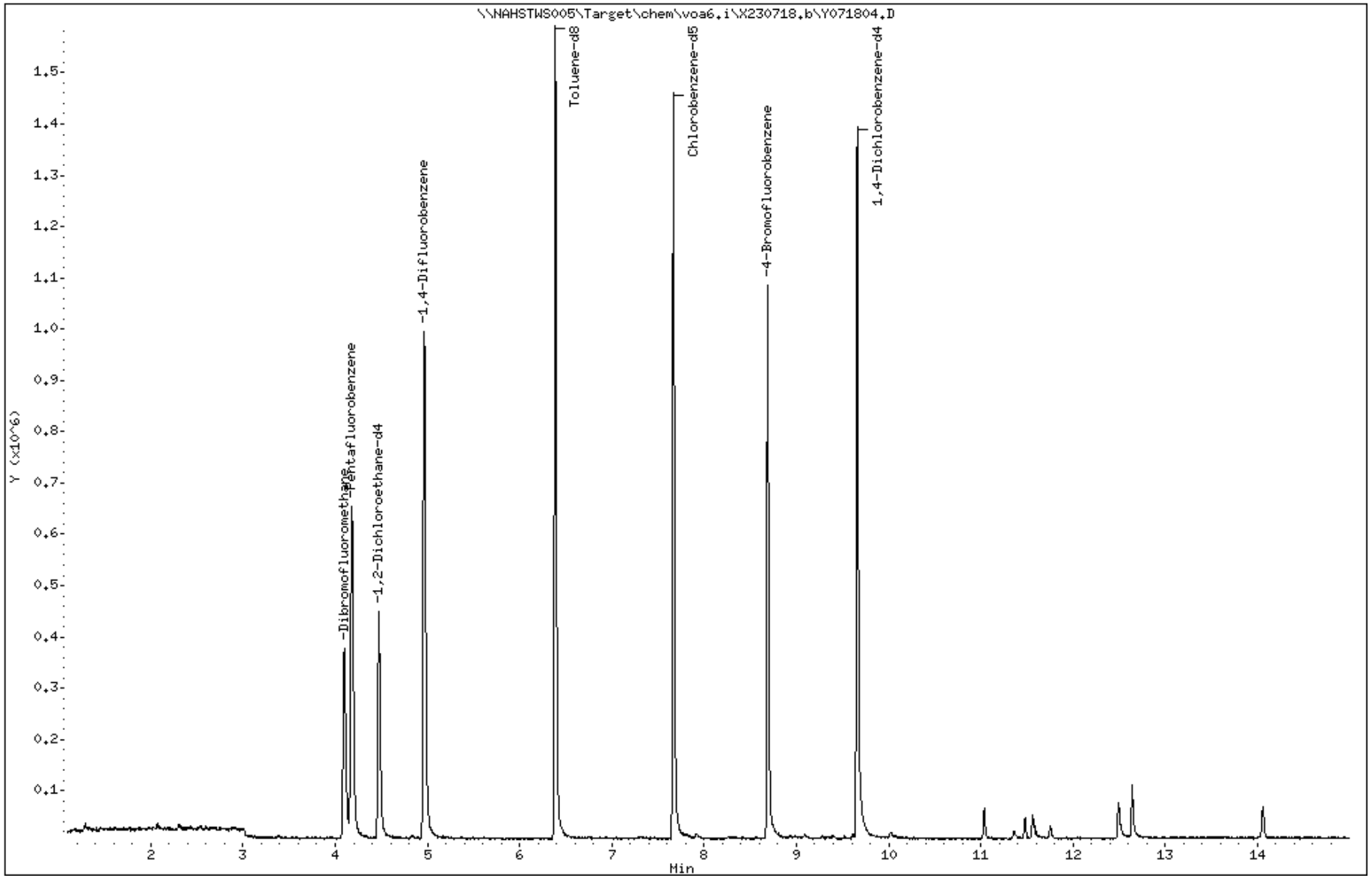
Sample Info: CCB;CCB;;;

Purge Volume: 5.0

Operator: PC

Column phase: DB624

Column diameter: 0.18



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Inj Date : 18-JUL-2023 22:15
InstruID : voa6.i
LabSampID : CCB

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230718.b\Y071805.D Page 1
Report Date: 25-Jul-2023 12:40

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230718.b\Y071805.D
Lab Smp Id: VLCSW-230718 Client Smp ID: VLCSW-230718
Inj Date : 18-JUL-2023 22:35
Operator : PC Inst ID: voa6.i
Smp Info : VLCSW-230718;VLCSW-230718;3;;LCS
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230718.b\8260W.m
Meth Date : 25-Jul-2023 12:39 voa6.i Quant Type: ISTD
Cal Date : 14-JUL-2023 14:24 Cal File: X071408.D
Als bottle: 34 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.178	4.178	(1.000)	480099	50.0000	
135 1,4-Dioxane	88	5.602	5.598	(1.341)	21940	384.571	384.57(a)
140 1,3-Butadiene	54	1.167	1.167	(0.280)	151527	24.5623	24.56
25 Methacrylonitrile	41	3.844	3.829	(0.920)	127162	20.5200	20.52
12 Isobutyl Alcohol	43	4.680	4.676	(1.120)	385384	423.471	423.47
13 Acetonitrile	39	2.198	2.198	(0.526)	158116	234.862	234.86
14 Allyl Chloride	41	2.206	2.198	(0.528)	372966	23.6616	23.66
4 Propionitrile	54	3.660	3.657	(0.876)	196897	207.034	207.03(a)
72 trans-1,4-Dichloro-2-butene	53	8.890	8.886	(1.159)	42349	19.7203	19.72
194 Acetaldehyde	44	1.216	1.212	(0.291)	52371	112.688	112.68
23 Chloroprene	53	1.778	1.775	(0.426)	54252	25.1320	25.13(M)
130 Ethyl Acetate	43	3.664	3.657	(0.877)	150908	21.1626	21.16
40 Methyl Methacrylate	41	5.606	5.606	(1.342)	112753	19.4585	19.45
49 Ethyl Methacrylate	69	6.712	6.712	(1.352)	95931	18.9545	18.95
131 Methyl Acrylate	55	3.698	3.694	(0.885)	106319	16.2914	16.29
2 Dichlorodifluoromethane	85	0.976	0.976	(0.234)	105445	22.0953	22.09
3 Chloromethane	50	1.081	1.081	(0.259)	142340	19.6292	19.62
5 Vinyl Chloride	62	1.145	1.145	(0.274)	144485	23.2564	23.25
6 Bromomethane	94	1.344	1.340	(0.322)	50688	19.7156	19.71
7 Chloroethane	64	1.407	1.407	(0.337)	81241	22.9066	22.90

8	Trichlorofluoromethane	101	1.565	1.561 (0.375)	158847	25.2296	25.22
9	Acrolein	56	1.865	1.861 (0.446)	11731	64.9280	64.92

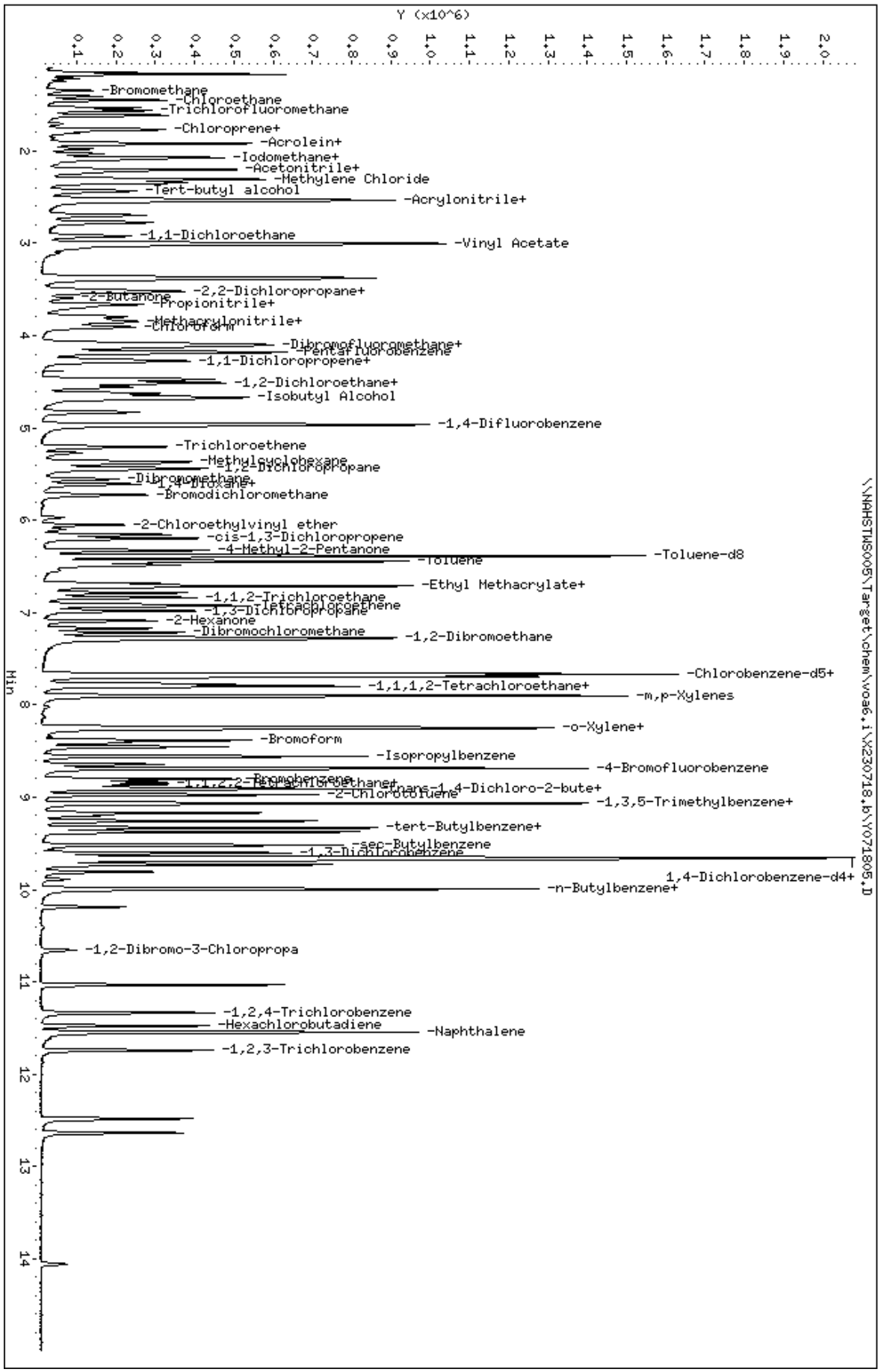
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
	10 Acetone	43	1.977	1.973	(0.473)	103393	52.2030	52.20
	11 1,1-Dichloroethene	96	1.917	1.917	(0.459)	76641	21.7900	21.79
	15 Iodomethane	142	2.033	2.030	(0.487)	138666	33.1076	33.10
	16 Acrylonitrile	53	2.532	2.536	(0.606)	116788	49.9194	49.91
	17 Methylene Chloride	84	2.311	2.303	(0.553)	95056	22.1381	22.13
	18 Methyl tert-butyl ether	73	2.543	2.539	(0.609)	279052	21.3324	21.33
	19 Carbon Disulfide	76	2.075	2.071	(0.497)	479417	43.3623	43.36
	20 trans-1,2-Dichloroethene	96	2.532	2.532	(0.606)	88214	21.6824	21.68
	21 Vinyl Acetate	43	3.001	3.001	(0.718)	686014	40.7712	40.77
	22 1,1-Dichloroethane	63	2.926	2.918	(0.700)	200743	22.4847	22.48
	24 2-Butanone	43	3.589	3.585	(0.859)	95770	37.4583	37.45
	26 2,2-Dichloropropane	77	3.510	3.507	(0.840)	133854	19.4413	19.44
	27 cis-1,2-Dichloroethene	96	3.529	3.529	(0.845)	103776	20.0229	20.02
	28 Chloroform	83	3.904	3.904	(0.935)	182162	19.9407	19.94
	29 Bromochloromethane	128	3.791	3.795	(0.908)	56734	19.5325	19.53
$	30 Dibromofluoromethane	113	4.103	4.099	(0.982)	239973	54.6066	54.60
	31 1,1,1-Trichloroethane	97	4.080	4.080	(0.977)	151195	21.5003	21.50
	32 1,1-Dichloropropene	75	4.283	4.279	(0.863)	127933	20.2957	20.29
	33 1,2-Dichloroethane	62	4.560	4.556	(0.918)	166880	19.6170	19.61
	34 Carbon Tetrachloride	117	4.264	4.260	(0.859)	127481	20.0744	20.07
$	35 1,2-Dichloroethane-d4	65	4.474	4.470	(1.071)	296024	53.8451	53.84
*	36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	772790	50.0000	
	37 Benzene	78	4.511	4.511	(0.909)	374911	20.2823	20.28
	38 Trichloroethene	130	5.208	5.205	(1.049)	108357	20.7243	20.72
	39 Bromodichloromethane	83	5.726	5.726	(1.153)	138925	19.6214	19.62
	41 2-Chloroethylvinyl ether	63	6.052	6.048	(1.219)	84029	38.8707	38.87
	42 1,2-Dichloropropane	63	5.437	5.437	(1.095)	121949	20.5169	20.51
	44 Dibromomethane	93	5.550	5.553	(1.118)	65335	19.4186	19.41
	45 4-Methyl-2-Pentanone	43	6.329	6.326	(0.825)	274177	39.4598	39.45
	46 cis-1,3-Dichloropropene	75	6.153	6.153	(1.239)	152901	18.8019	18.80
*	47 Chlorobenzene-d5	117	7.668	7.668	(1.000)	706090	50.0000	
$	48 Toluene-d8	98	6.386	6.386	(0.833)	868780	47.7886	47.78
	50 Toluene	91	6.446	6.446	(0.841)	398977	20.9911	20.99
	51 trans-1,3-Dichloropropene	75	6.685	6.682	(1.347)	127265	18.5647	18.56
	52 2-Hexanone	43	7.087	7.087	(0.924)	183278	40.1545	40.15
	53 1,1,2-Trichloroethane	83	6.839	6.839	(0.892)	78145	19.3812	19.38
	54 1,3-Dichloropropane	76	6.982	6.978	(0.911)	162657	19.7463	19.74
	55 Dibromochloromethane	129	7.173	7.173	(0.935)	118380	20.3375	20.33
	56 Tetrachloroethene	164	6.925	6.925	(0.903)	85983	21.8967	21.89
	57 1,2-Dibromoethane	107	7.259	7.259	(0.947)	94494	20.5088	20.50
	58 1-Chlorohexane	55	7.694	7.694	(1.550)	131322	21.1525	21.15
	59 Chlorobenzene	112	7.694	7.694	(1.003)	279908	21.0673	21.06
	60 1,1,1,2-Tetrachloroethane	131	7.773	7.773	(1.014)	104458	20.0824	20.08
	61 Ethylbenzene	106	7.795	7.795	(1.017)	137975	20.7091	20.70
	62 m,p-Xylenes	106	7.904	7.900	(1.031)	347290	41.5499	41.54
	63 o-Xylene	106	8.241	8.237	(1.075)	170223	21.5059	21.50
	64 Styrene	104	8.256	8.256	(1.077)	291495	21.1130	21.11
	66 Bromoform	173	8.406	8.410	(1.096)	77660	20.7947	20.79
	67 Isopropylbenzene	105	8.560	8.556	(1.116)	436653	21.4619	21.46
	68 1,1,2,2-Tetrachloroethane	83	8.837	8.837	(0.915)	119042	18.6587	18.65
$	69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	373900	53.2108	53.21
*	70 1,4-Dichlorobenzene-d4	152	9.658	9.658	(1.000)	379838	50.0000	

71 1,2,3-Trichloropropane	75	8.860	8.863 (0.917)	94539	18.6735	18.67(M)
73 n-Propylbenzene	91	8.908	8.908 (0.922)	499351	21.7550	21.75

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
	74 Bromobenzene	156	8.803	8.803	(0.912)	122167	20.5650	20.56
	75 1,3,5-Trimethylbenzene	105	9.066	9.066	(0.939)	353884	20.5803	20.58
	76 2-Chlorotoluene	91	8.972	8.972	(0.929)	319137	20.6110	20.61
	77 4-Chlorotoluene	91	9.070	9.070	(0.939)	361360	21.2381	21.23
	78 tert-Butylbenzene	119	9.332	9.336	(0.966)	318312	21.5862	21.58
	79 1,2,4-Trimethylbenzene	105	9.377	9.377	(0.971)	351583	20.3893	20.38
	81 sec-Butylbenzene	105	9.519	9.519	(0.986)	440723	22.4224	22.42
	82 p-Isopropyltoluene	119	9.647	9.647	(0.999)	385002	21.4427	21.44
	83 1,3-Dichlorobenzene	146	9.602	9.602	(0.994)	210999	20.3887	20.38
	84 1,4-Dichlorobenzene	146	9.681	9.681	(1.002)	223317	19.6814	19.68
	87 n-Butylbenzene	91	9.992	9.992	(1.035)	323389	21.5053	21.50
	88 1,2-Dichlorobenzene	146	9.992	9.992	(1.035)	215255	21.1569	21.15
	89 1,2-Dibromo-3-Chloropropane	155	10.655	10.651	(1.103)	20510	20.2197	20.21
	90 1,2,4-Trichlorobenzene	180	11.338	11.334	(1.174)	125914	18.0188	18.01
	91 Hexachlorobutadiene	225	11.476	11.476	(1.188)	65984	21.8815	21.88
	92 Naphthalene	128	11.544	11.540	(1.195)	327078	18.9110	18.91
	93 1,2,3-Trichlorobenzene	180	11.742	11.739	(1.216)	120790	18.4829	18.48
M	94 1,2-Dichloroethylene (total)	96				191990	41.7052	41.70
M	95 Xylenes (total)	106				517513	63.0558	63.05
	141 Cyclohexane	56	4.121	4.118	(0.987)	205545	24.6994	24.69
	138 Freon TF	101	1.925	1.917	(0.461)	80955	28.8641	28.86
	147 Methylcyclohexane	55	5.388	5.381	(1.085)	306378	18.7830	18.78
	146 Methyl Acetate	43	2.236	2.232	(0.535)	116553	27.2781	27.27
	148 Tert-Butyl alcohol	59	2.434	2.434	(0.583)	255114	421.015	421.01
	149 Isopropyl Alcohol	45	2.101	2.097	(0.503)	170596	453.719	453.71

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.



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Date : 18-JUL-2023 22:35
Client ID: VLCSW-230718
Sample Info: VLCSW-230718;VLCSW-230718;3;;LCS
Purge Volume: 5.0
Column phase: DB624

Instrument: voa6.i
Operator: PC
Column diameter: 0.18

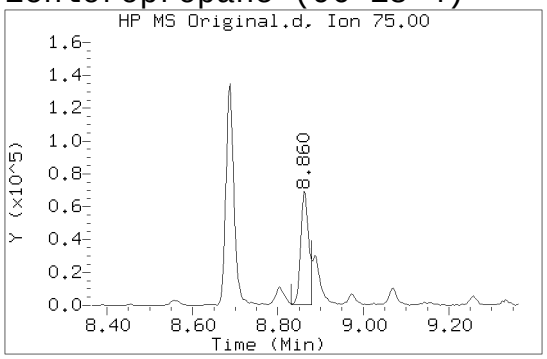
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230718.b\Y071805.D
Inj Date : 18-JUL-2023 22:35
InstruID : voa6.i
LabSampID : VLCSW-230718

1,2,3-Trichloropropane (96-18-4)

Reason Code:

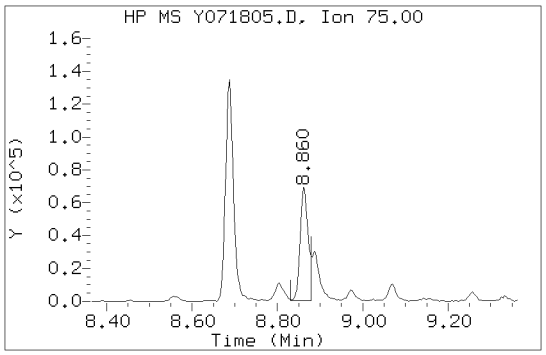
BEFORE

MASS
75
AREA
94539
HEIGHT
69083
25-Jul-2023
12:38
linh
pham



AFTER

MASS
75
AREA
94539
HEIGHT
69083
25-Jul-2023
12:38
linh
pham



BEFORE

MASS
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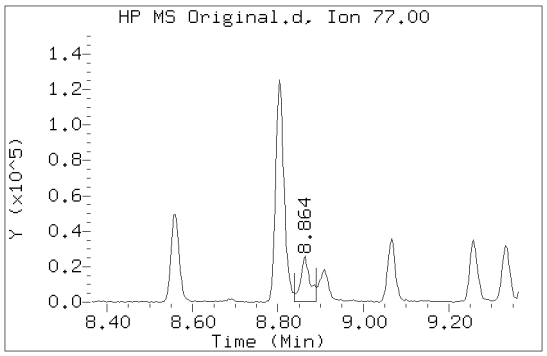
AREA
41331
HEIGHT
25905
25-Jul-2023
12:38
linh
pham



AFTER

MASS
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AREA
41331
HEIGHT
25905
25-Jul-2023
12:38
linh
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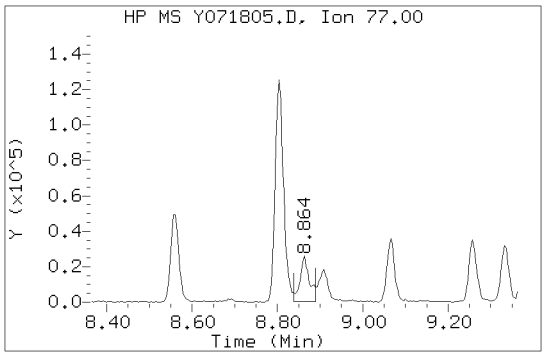

Chloroprene (126-99-8)

Reason Code:

BEFORE

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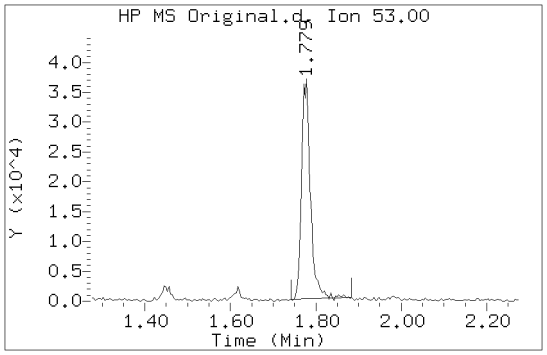
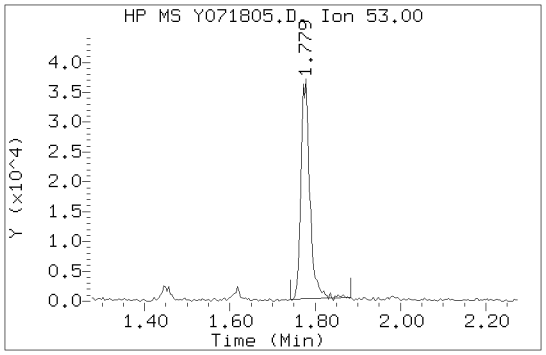
AREA
54252
HEIGHT
36823
25-Jul-2023
12:38
linh
pham



AFTER

MASS
53
AREA
54252
HEIGHT
36823
25-Jul-2023
12:38
linh
pham



BEFORE

MASS
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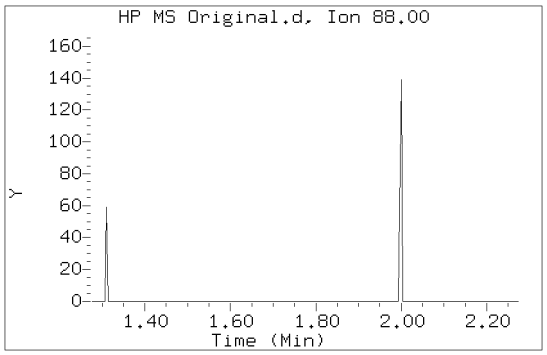
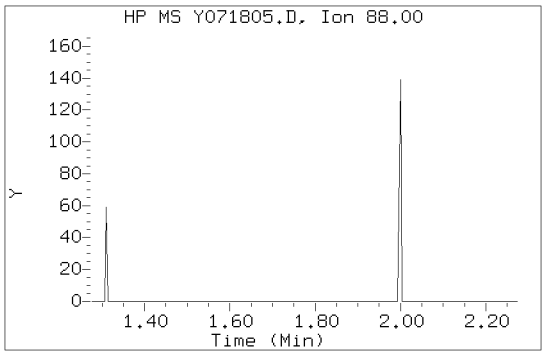
AREA
0
HEIGHT
0
25-Jul-2023
12:38
linh
pham



AFTER

MASS
88
AREA
0
HEIGHT
0
25-Jul-2023
12:38
linh
pham



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230718.b\Y071807.D Page 1
Report Date: 25-Jul-2023 12:40

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230718.b\Y071807.D
Lab Smp Id: VBLKW-230718 Client Smp ID: VBLKW-230718
Inj Date : 18-JUL-2023 23:16
Operator : PC Inst ID: voa6.i
Smp Info : VBLKW-230718;VBLKW-230718;3;;BLANK
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230718.b\8260W.m
Meth Date : 25-Jul-2023 12:39 voa6.i Quant Type: ISTD
Cal Date : 14-JUL-2023 14:24 Cal File: X071408.D
Als bottle: 36 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.181	4.178	(1.000)	503063	50.0000	
$ 30 Dibromofluoromethane	113	4.103	4.099	(0.981)	245838	53.3706	53.37
$ 35 1,2-Dichloroethane-d4	65	4.474	4.470	(1.070)	309325	53.6944	53.69
* 36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	751331	50.0000	
* 47 Chlorobenzene-d5	117	7.667	7.668	(1.000)	673679	50.0000	
$ 48 Toluene-d8	98	6.385	6.386	(0.833)	895586	51.6332	51.63
$ 69 4-Bromofluorobenzene	95	8.691	8.687	(1.133)	318072	47.3971	47.39
* 70 1,4-Dichlorobenzene-d4	152	9.662	9.658	(1.000)	342067	50.0000	

01321121

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230718.b\Y071807.D

Date : 18-JUL-2023 23:16

Client ID: VBLKW-230718

Instrument: voa6.i

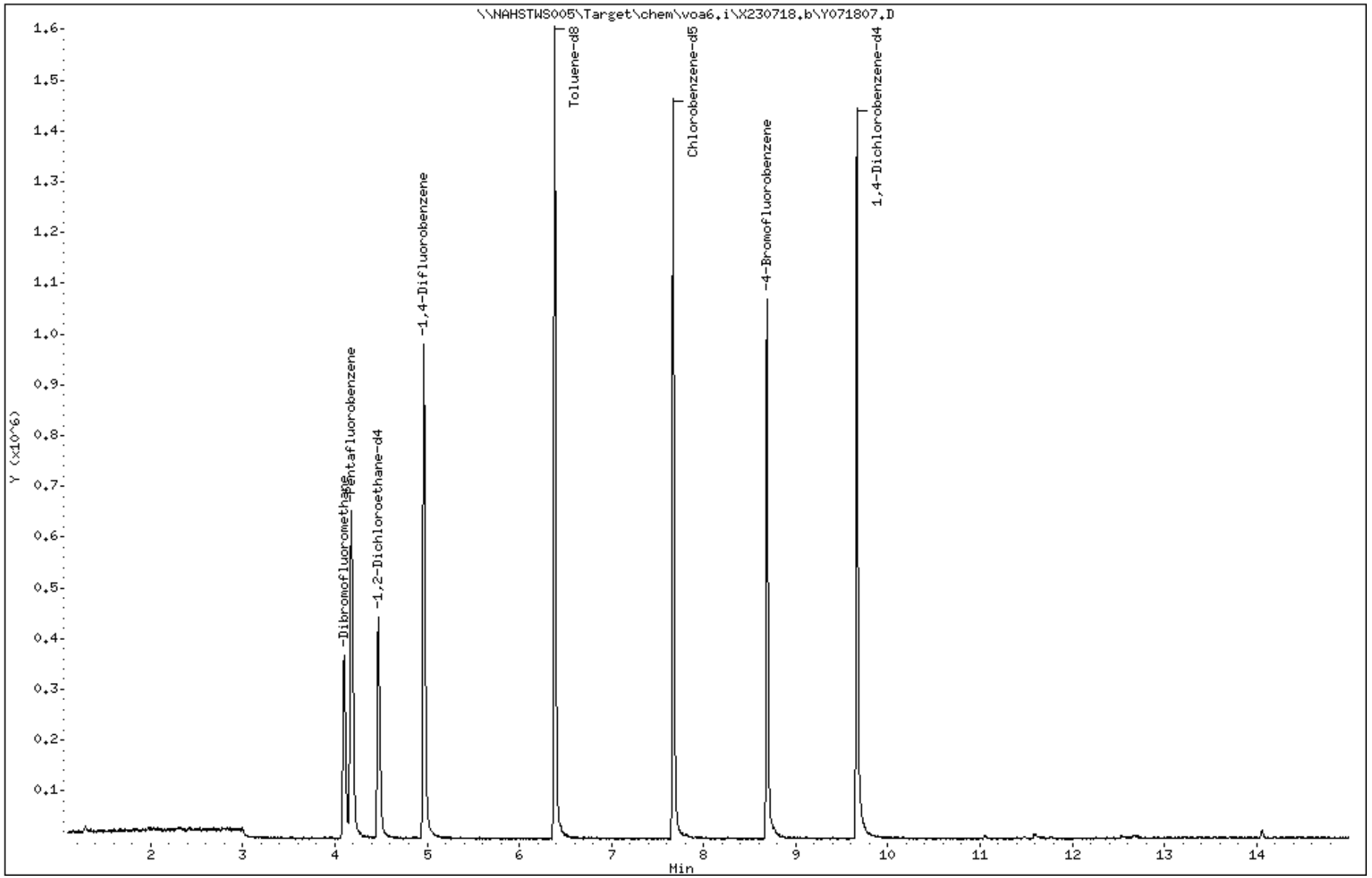
Sample Info: VBLKW-230718;VBLKW-230718;3;;BLANK

Purge Volume: 5.0

Operator: PC

Column phase: DB624

Column diameter: 0.18



Data File : \\NAHSTWS005\Target\chem\voa6.i\X230718.b\Y071807.D
Inj Date : 18-JUL-2023 23:16
InstruID : voa6.i
LabSampID : VBLKW-230718

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230718.b\Y071808.D Page 1
Report Date: 25-Jul-2023 12:40

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230718.b\Y071808.D
Lab Smp Id: HS23070658-11 Client Smp ID: HS23070658-11
Inj Date : 18-JUL-2023 23:37
Operator : PC Inst ID: voa6.i
Smp Info : HS23070658-11;HS23070658-11;;;
Misc Info : V6;WATER;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\voa6.i\X230718.b\8260W.m
Meth Date : 25-Jul-2023 12:39 voa6.i Quant Type: ISTD
Cal Date : 14-JUL-2023 14:24 Cal File: X071408.D
Als bottle: 37
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 0474-dod.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.181	4.178	(1.000)	487044	50.0000	
$ 30 Dibromofluoromethane	113	4.099	4.099	(0.980)	239222	53.6463	53.64
$ 35 1,2-Dichloroethane-d4	65	4.474	4.470	(1.070)	302166	54.1824	54.18
* 36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	723108	50.0000	
* 47 Chlorobenzene-d5	117	7.671	7.668	(1.000)	633678	50.0000	
$ 48 Toluene-d8	98	6.385	6.386	(0.832)	850132	52.1065	52.10
$ 69 4-Bromofluorobenzene	95	8.691	8.687	(1.133)	289898	45.9124	45.91
* 70 1,4-Dichlorobenzene-d4	152	9.662	9.658	(1.000)	311458	50.0000	

01321124

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230718.b\Y071808.D

Date : 18-JUL-2023 23:37

Client ID: HS23070658-11

Instrument: voa6.i

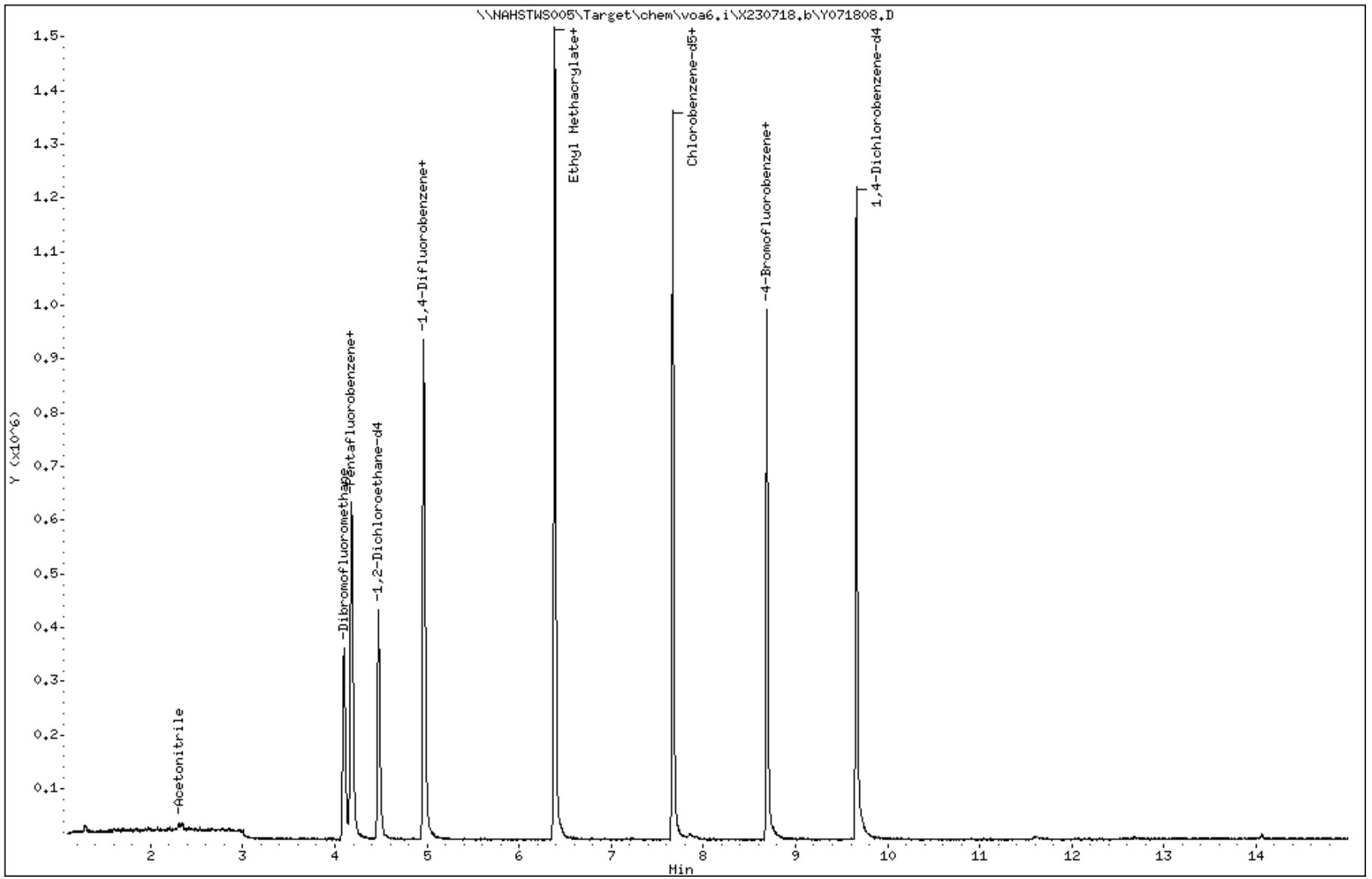
Sample Info: HS23070658-11;HS23070658-11;;;

Purge Volume: 5.0

Operator: PC

Column phase: DB624

Column diameter: 0.18



Data File : \\NAHSTWS005\Target\chem\voa6.i\X230718.b\Y071808.D
Inj Date : 18-JUL-2023 23:37
InstruID : voa6.i
LabSampID : HS23070658-11

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230718.b\Y071811.D Page 1
Report Date: 25-Jul-2023 12:40

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230718.b\Y071811.D
Lab Smp Id: HS23070658-08 Client Smp ID: HS23070658-08
Inj Date : 19-JUL-2023 00:38
Operator : PC Inst ID: voa6.i
Smp Info : HS23070658-08;HS23070658-08;;;
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230718.b\8260W.m
Meth Date : 25-Jul-2023 12:39 voa6.i Quant Type: ISTD
Cal Date : 14-JUL-2023 14:24 Cal File: X071408.D
Als bottle: 40
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 0474-dod.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.177	4.178	(1.000)	489397	50.0000	
$ 30 Dibromofluoromethane	113	4.102	4.099	(0.982)	239527	53.4537	53.45
$ 35 1,2-Dichloroethane-d4	65	4.470	4.470	(1.070)	300647	53.6447	53.64
* 36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	734088	50.0000	
* 47 Chlorobenzene-d5	117	7.667	7.668	(1.000)	645681	50.0000	
$ 48 Toluene-d8	98	6.385	6.386	(0.833)	855730	51.4746	51.47
$ 69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	315384	49.0492	49.04
* 70 1,4-Dichlorobenzene-d4	152	9.662	9.658	(1.000)	327690	50.0000	
27 cis-1,2-Dichloroethene	96	3.540	3.529	(0.847)	5456	1.03270	1.03(a)
38 Trichloroethene	130	5.208	5.205	(1.049)	20115	4.05002	4.05(a)

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).

01321127

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230718.b\Y071811.D

Page 1

Date : 19-JUL-2023 00:38

Client ID: HS23070658-08

Instrument: voa6.i

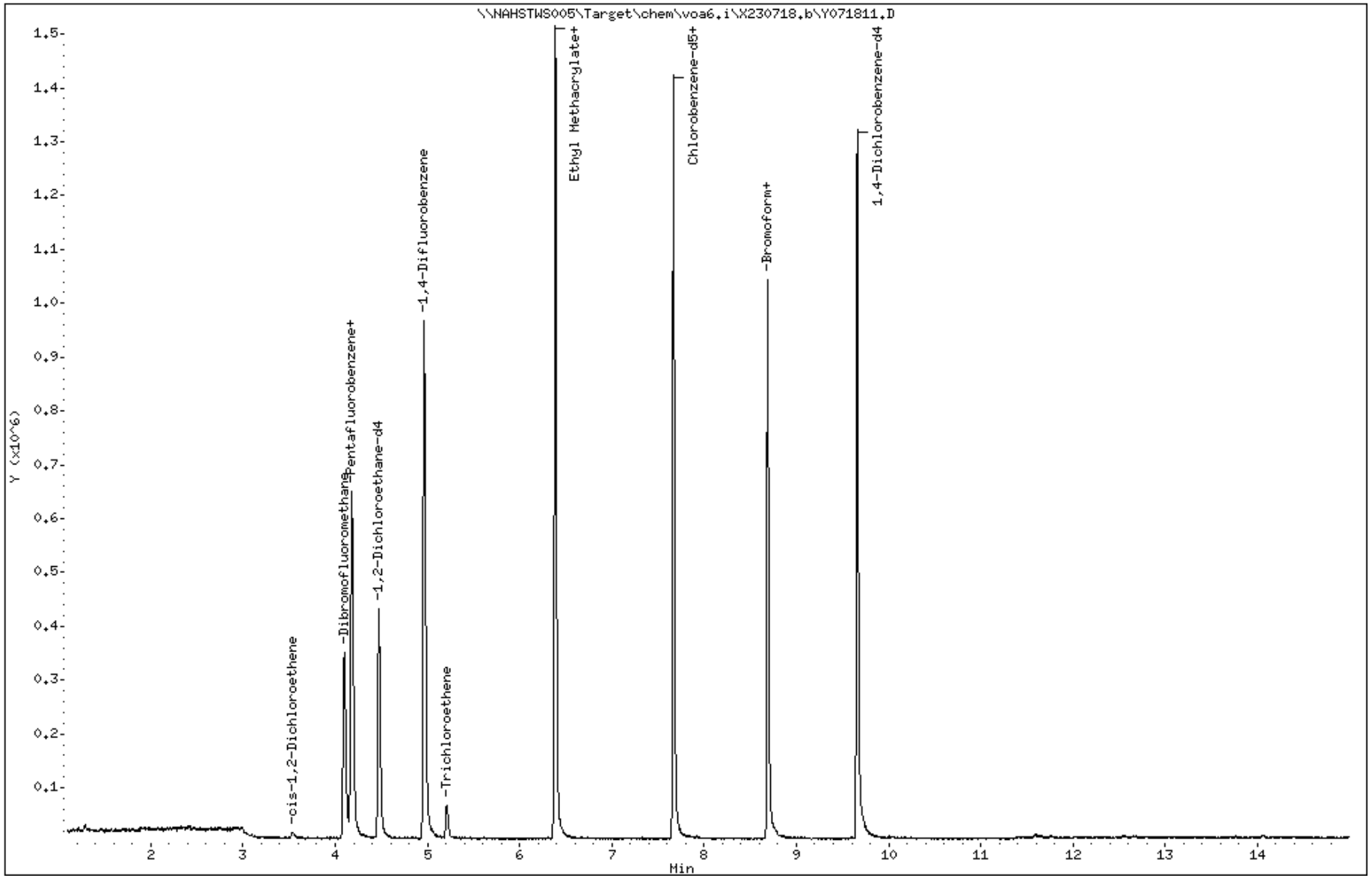
Sample Info: HS23070658-08;HS23070658-08;;;

Purge Volume: 5.0

Operator: PC

Column phase: DB624

Column diameter: 0.18



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230718.b\Y071811.D

Date : 19-JUL-2023 00:38

Client ID: HS23070658-08

Instrument: voa6.i

Sample Info: HS23070658-08;HS23070658-08;;;

Purge Volume: 5.0

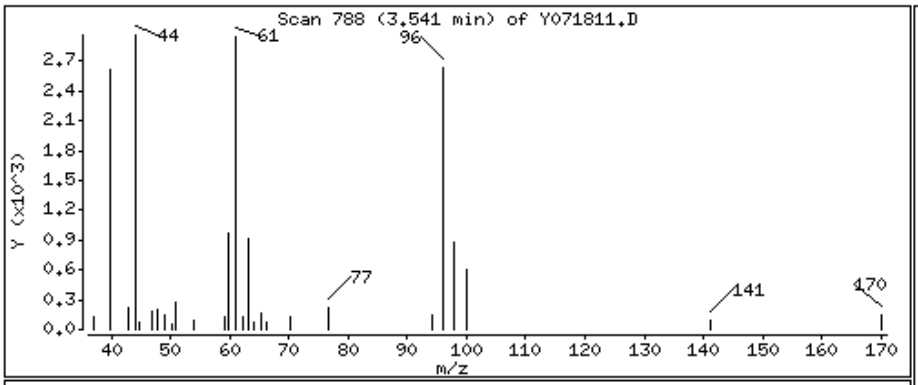
Operator: PC

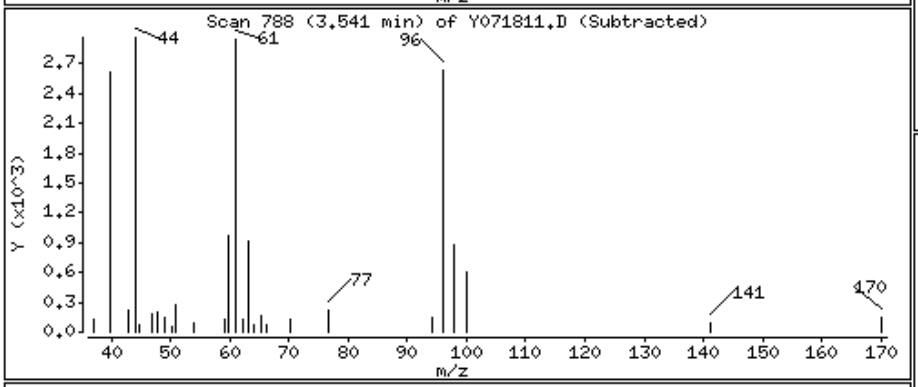
Column phase: DB624

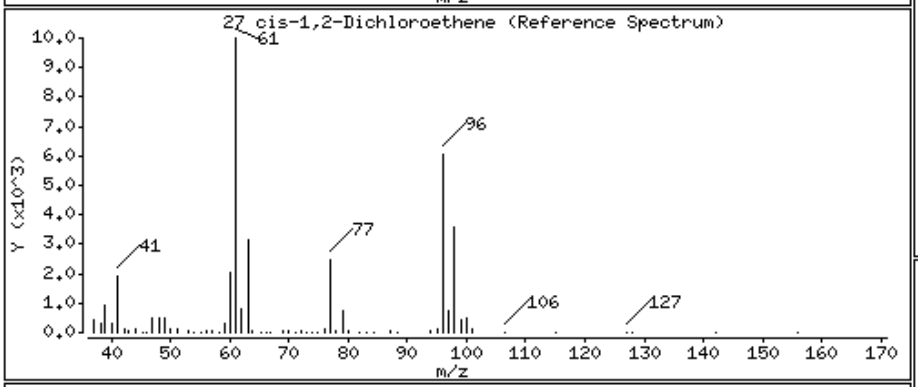
Column diameter: 0.18

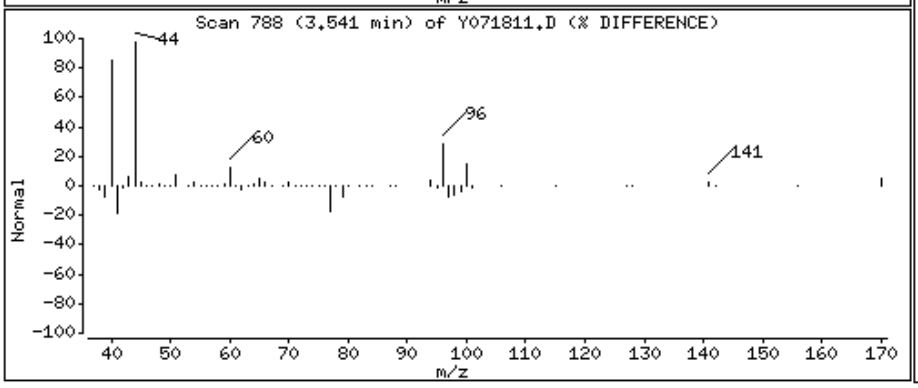
27 cis-1,2-Dichloroethene

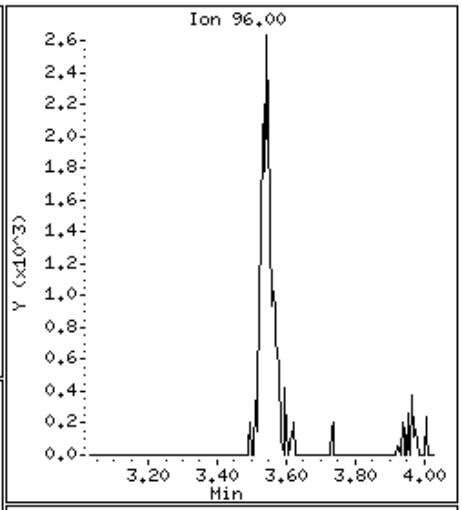
Concentration: 1.03 ug/l

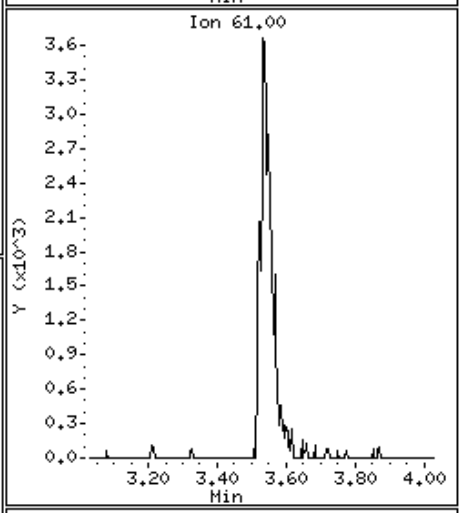


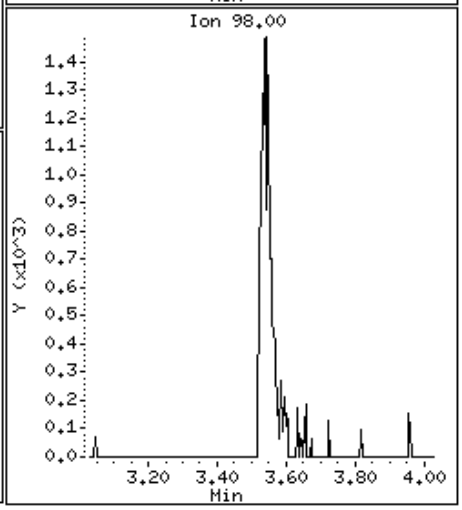












Data File: \\NAHSTWS005\Target\chem\voa6.i\X230718.b\Y071811.D Page 3

Date : 19-JUL-2023 00:38

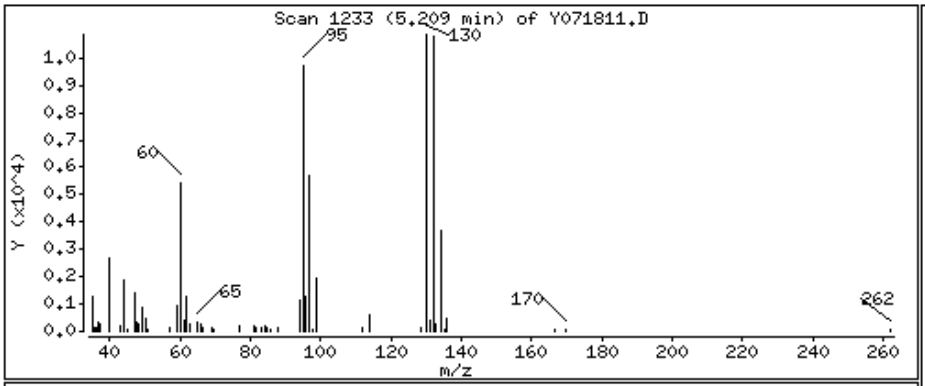
Client ID: HS23070658-08 Instrument: voa6.i

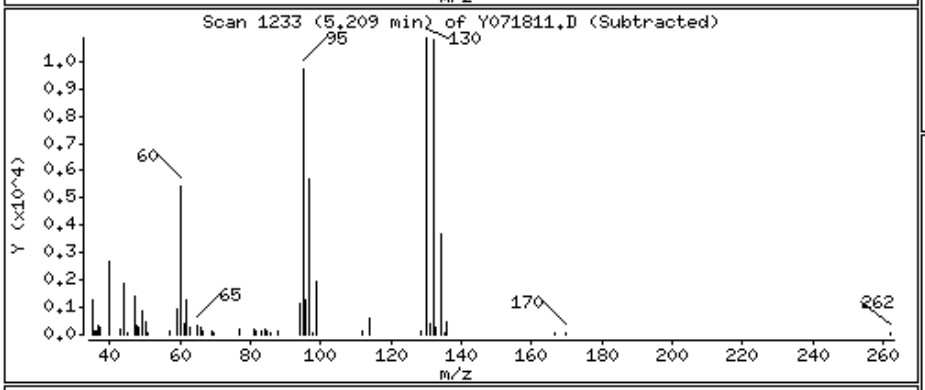
Sample Info: HS23070658-08;HS23070658-08;;;

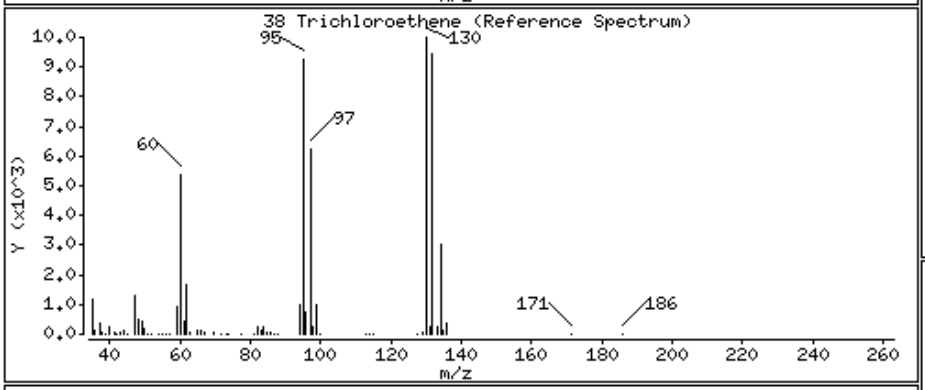
Purge Volume: 5.0 Operator: PC

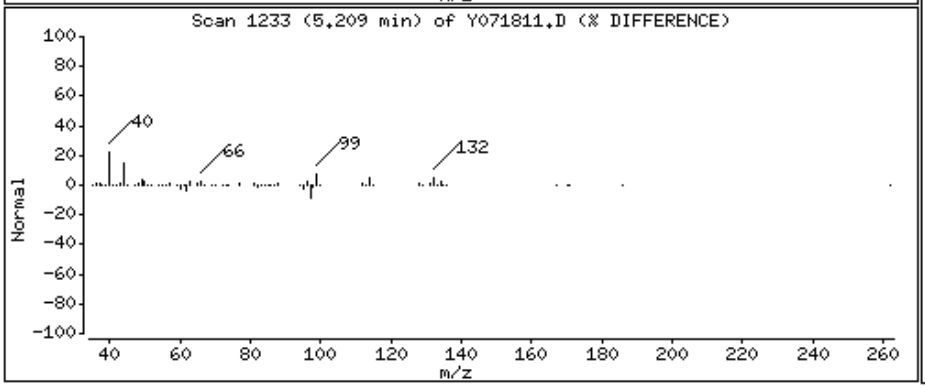
Column phase: DB624 Column diameter: 0.18

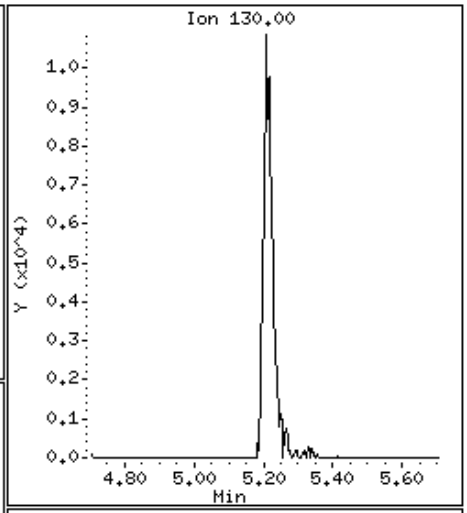
38 Trichloroethene Concentration: 4.05 ug/l

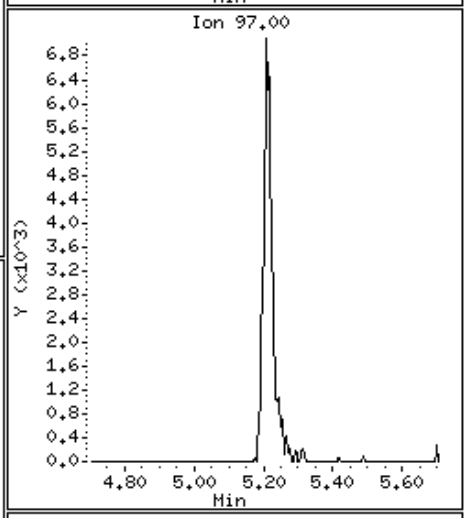


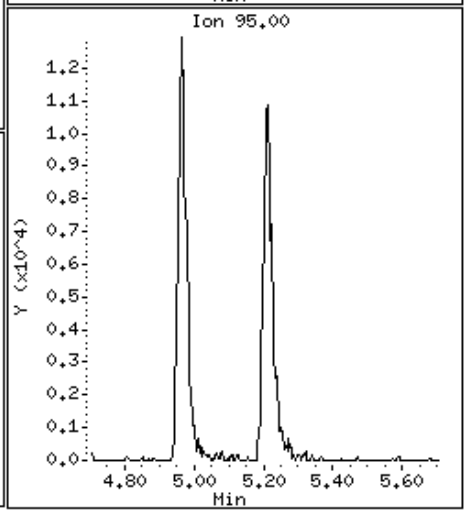












Data File : \\NAHSTWS005\Target\chem\voa6.i\X230718.b\Y071811.D
Inj Date : 19-JUL-2023 00:38
InstruID : voa6.i
LabSampID : HS23070658-08

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230718.b\Y071812.D Page 1
Report Date: 25-Jul-2023 12:40

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230718.b\Y071812.D
Lab Smp Id: HS23070658-05 Client Smp ID: HS23070658-05
Inj Date : 19-JUL-2023 00:59
Operator : PC Inst ID: voa6.i
Smp Info : HS23070658-05;HS23070658-05;;;
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230718.b\8260W.m
Meth Date : 25-Jul-2023 12:39 voa6.i Quant Type: ISTD
Cal Date : 14-JUL-2023 14:24 Cal File: X071408.D
Als bottle: 41
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 0474-dod.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

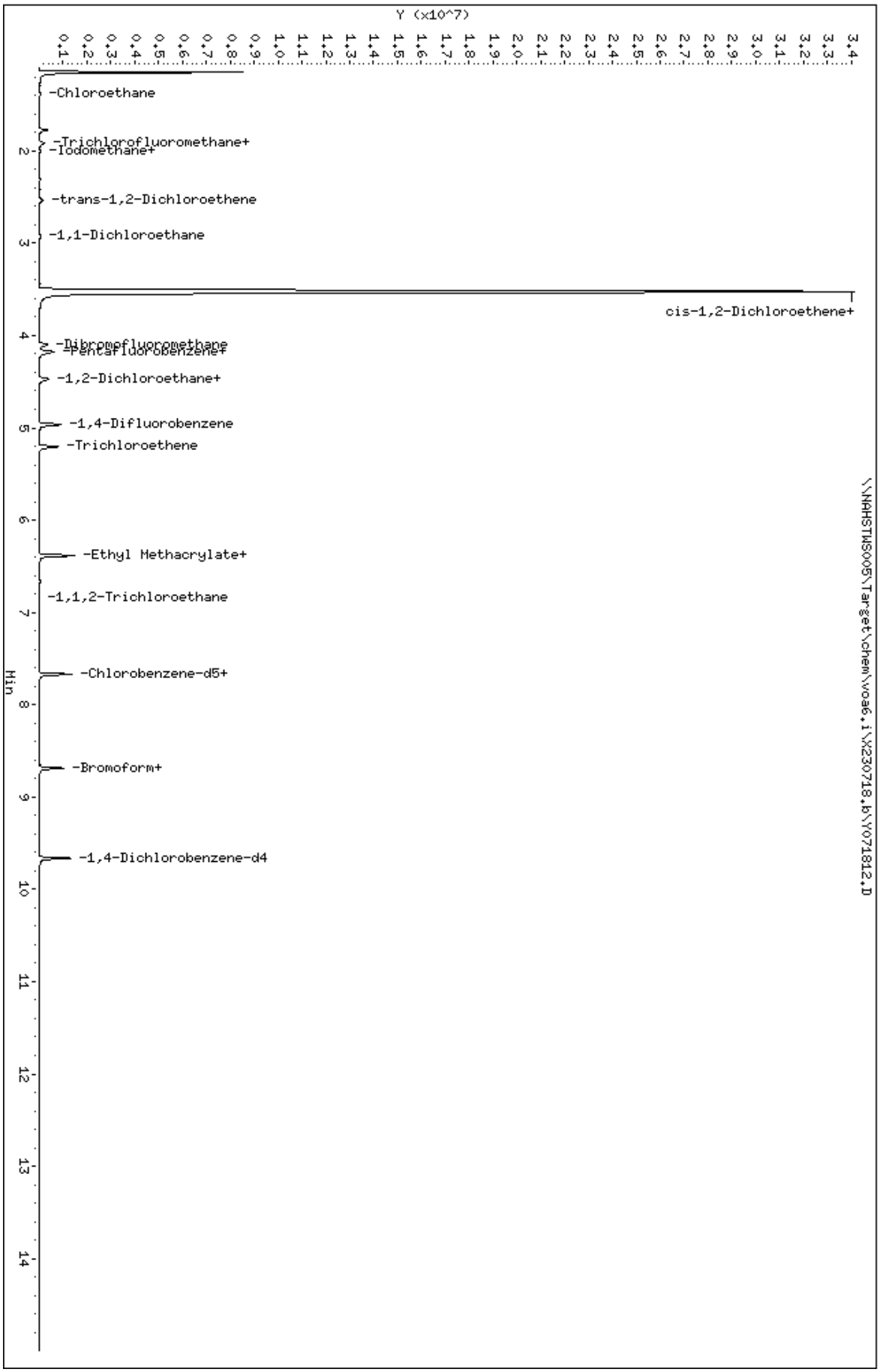
Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.181	4.178	(1.000)	472339	50.0000	
$ 30 Dibromofluoromethane	113	4.095	4.099	(0.979)	228858	52.9096	52.90
$ 35 1,2-Dichloroethane-d4	65	4.470	4.470	(1.069)	298076	55.1237	55.12
* 36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	697810	50.0000	
* 47 Chlorobenzene-d5	117	7.667	7.668	(1.000)	623178	50.0000	
$ 48 Toluene-d8	98	6.385	6.386	(0.833)	824365	51.3786	51.37
$ 69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	308934	49.7874	49.78
* 70 1,4-Dichlorobenzene-d4	152	9.662	9.658	(1.000)	323225	50.0000	
5 Vinyl Chloride	62	1.145	1.145	(0.274)	5283261	864.368	864.36(A)
11 1,1-Dichloroethene	96	1.917	1.917	(0.459)	38448	11.1109	11.11
27 cis-1,2-Dichloroethene	96	3.525	3.529	(0.843)	14076082	2760.50	2760.50(A)
33 1,2-Dichloroethane	62	4.567	4.556	(0.920)	11438	1.48903	1.48(a)
38 Trichloroethene	130	5.208	5.205	(1.049)	249410	52.8277	52.82
53 1,1,2-Trichloroethane	83	6.847	6.839	(0.893)	3980	1.11843	1.11(a)
20 trans-1,2-Dichloroethene	96	2.532	2.532	(0.606)	39683	9.91404	9.91

QC Flag Legend

a - Target compound detected but, quantitated amount

Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount exceeded maximum amount.



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230718.b\Y071812.D
Date : 19-JUL-2023 00:59
Client ID: HS23070658-05
Sample Info: HS23070658-05;HS23070658-05;;;
Purge Volume: 5.0
Column phase: DB624

Instrument: voa6.i
Operator: PC
Column diameter: 0.18

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230718.b\Y071812.D

Date : 19-JUL-2023 00:59

Client ID: HS23070658-05

Instrument: voa6.i

Sample Info: HS23070658-05;HS23070658-05;;;

Purge Volume: 5.0

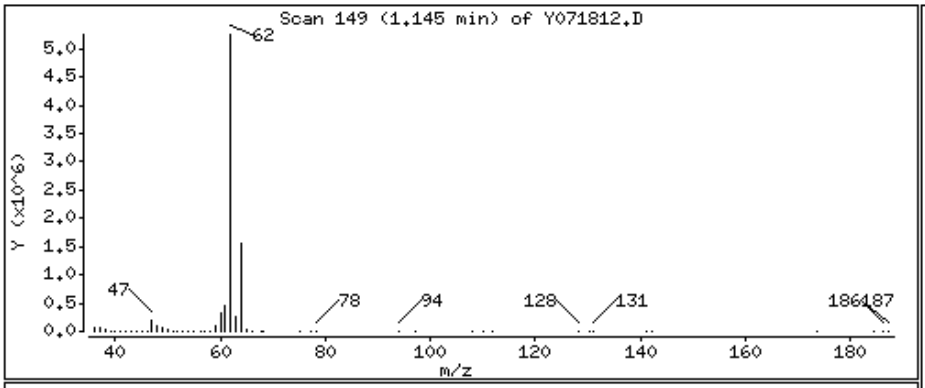
Operator: PC

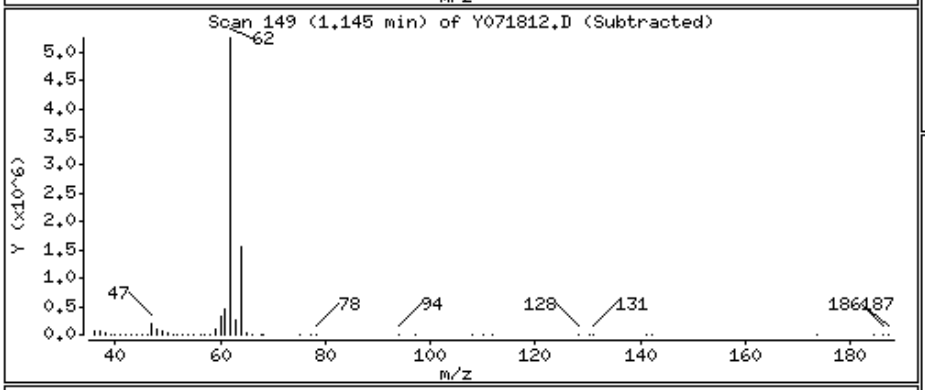
Column phase: DB624

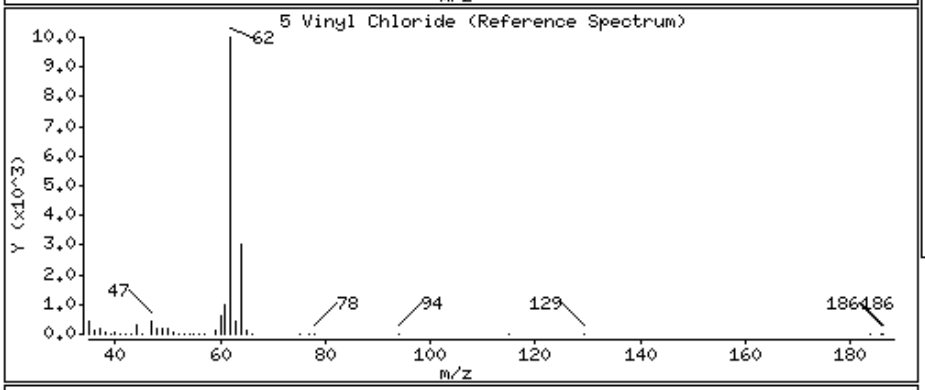
Column diameter: 0.18

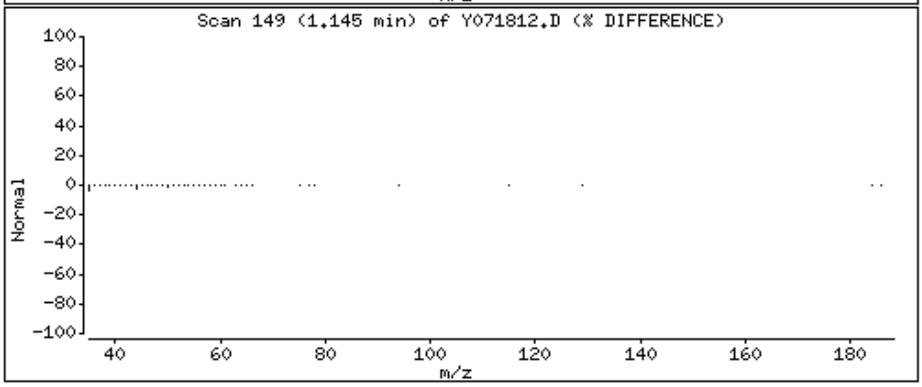
5 Vinyl Chloride

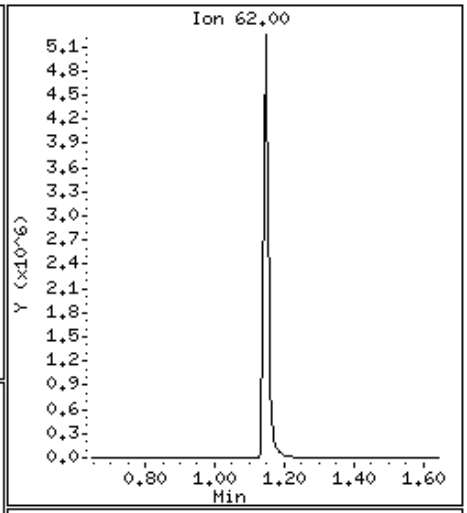
Concentration: 864.36 ug/l

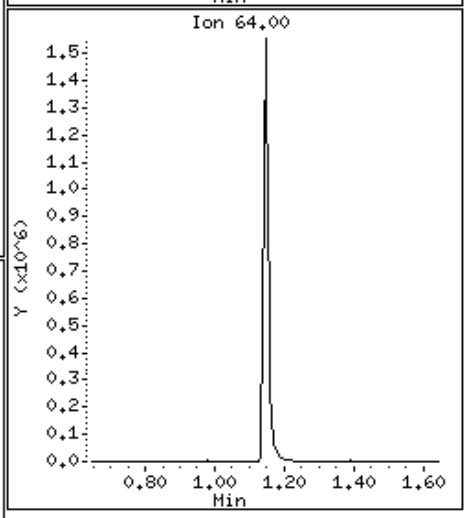












Data File: \\NAHSTWS005\Target\chem\voa6.i\X230718.b\Y071812.D

Date : 19-JUL-2023 00:59

Client ID: HS23070658-05

Instrument: voa6.i

Sample Info: HS23070658-05;HS23070658-05;;;

Purge Volume: 5.0

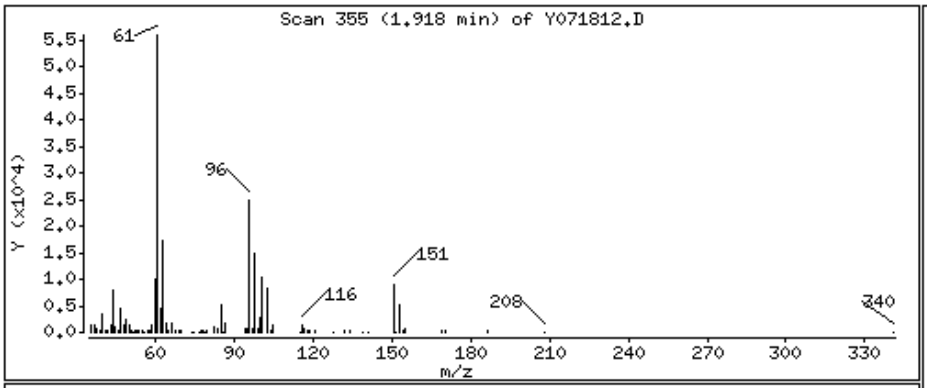
Operator: PC

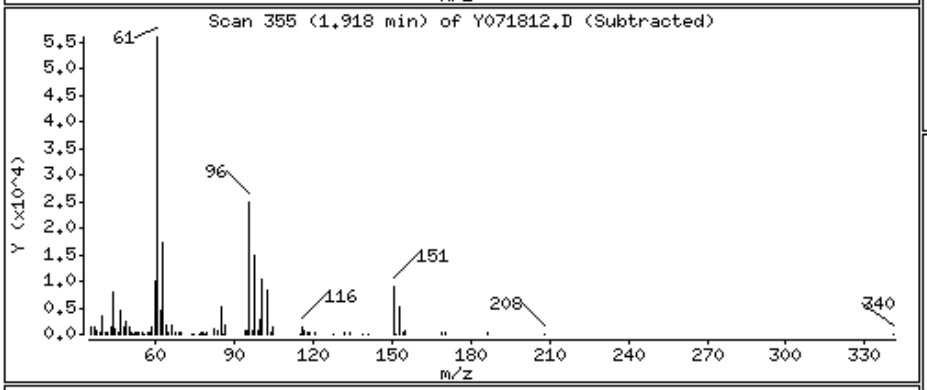
Column phase: DB624

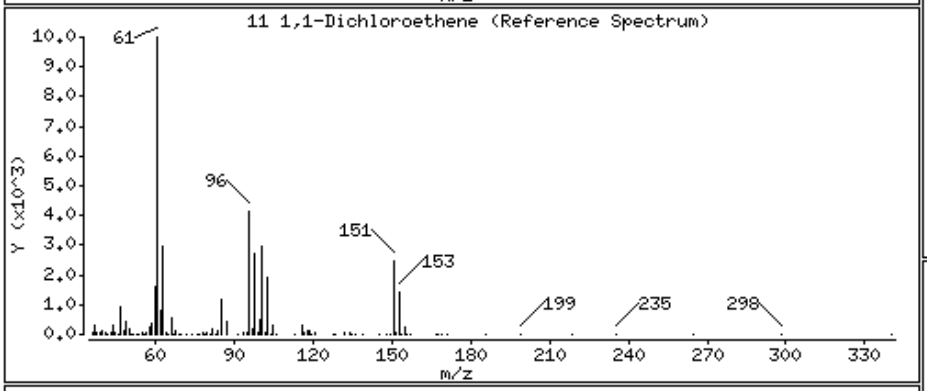
Column diameter: 0.18

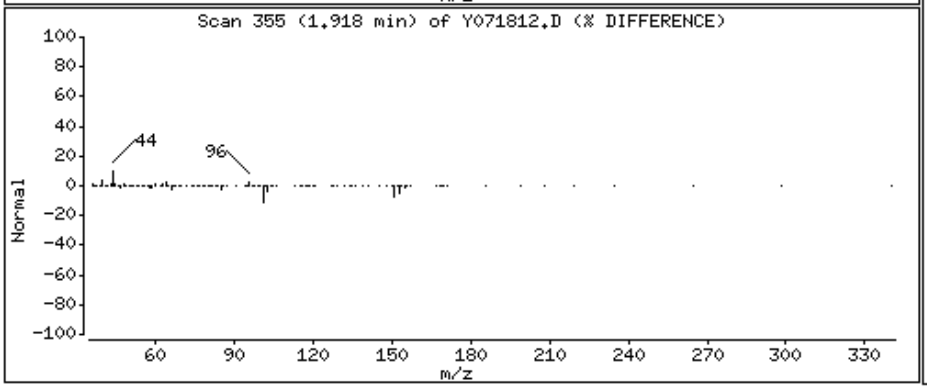
11 1,1-Dichloroethene

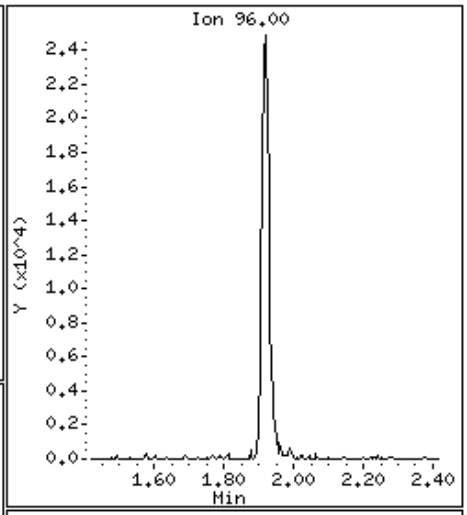
Concentration: 11.11 ug/l

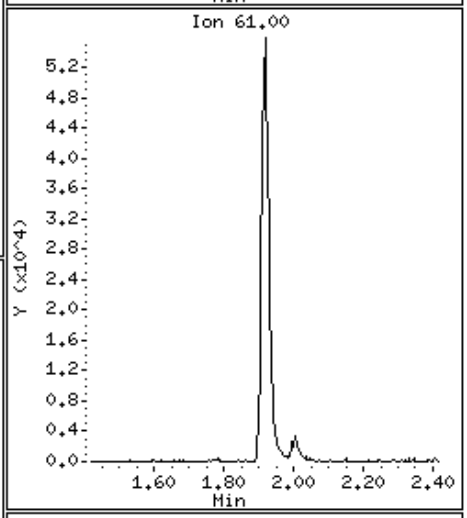


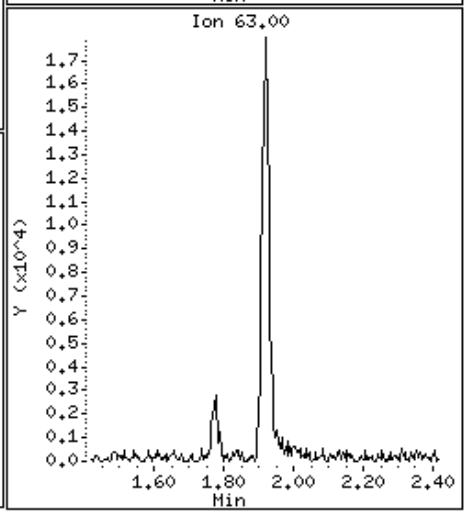












Data File: \\NAHSTWS005\Target\chem\voa6.i\X230718.b\Y071812.D

Date : 19-JUL-2023 00:59

Client ID: HS23070658-05

Instrument: voa6.i

Sample Info: HS23070658-05;HS23070658-05;;;

Purge Volume: 5.0

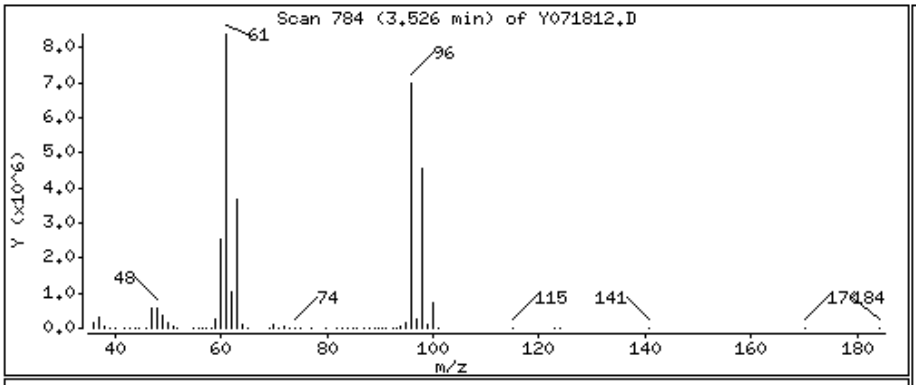
Operator: PC

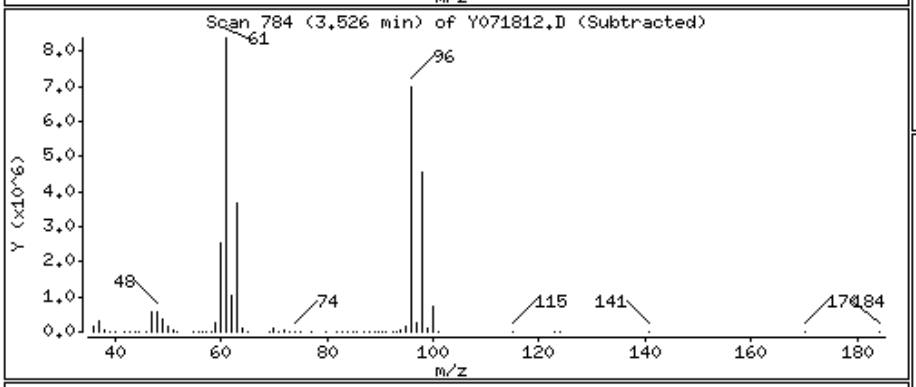
Column phase: DB624

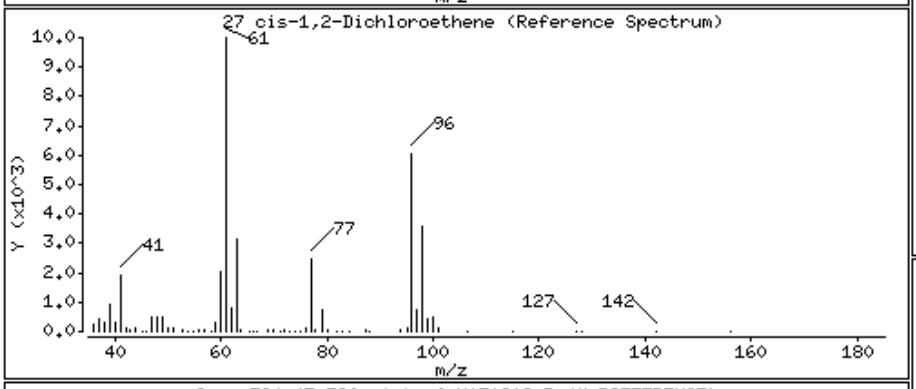
Column diameter: 0.18

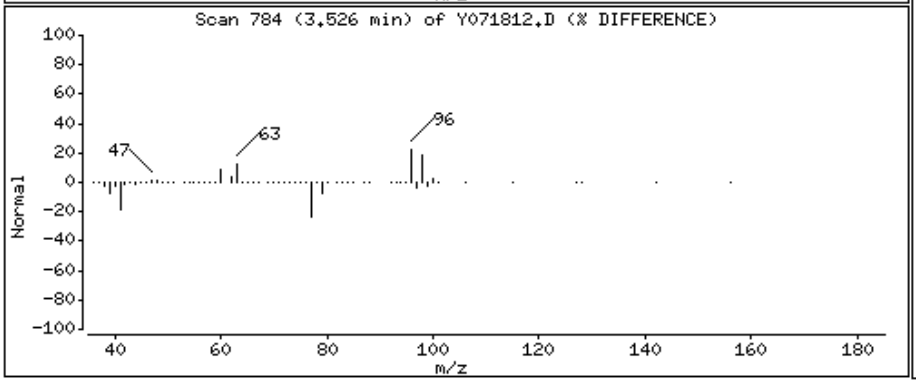
27 cis-1,2-Dichloroethene

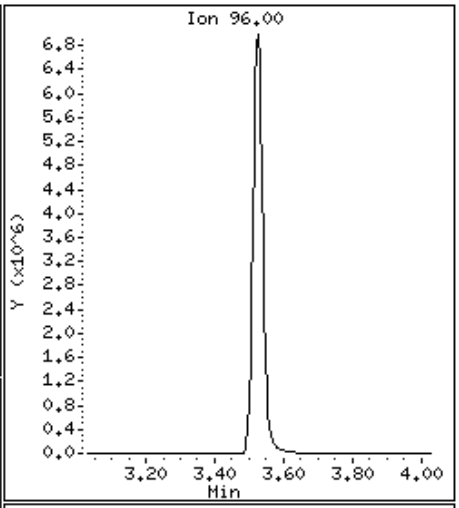
Concentration: 2760.50 ug/l

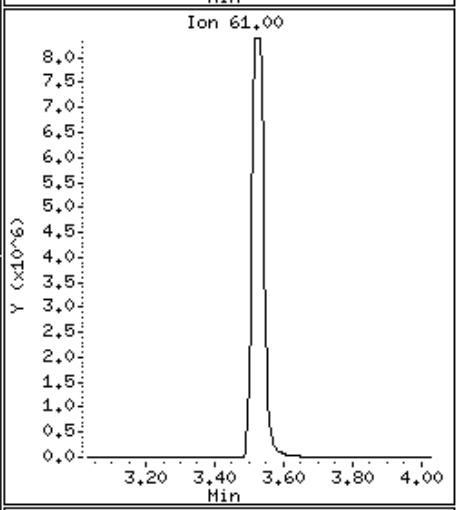


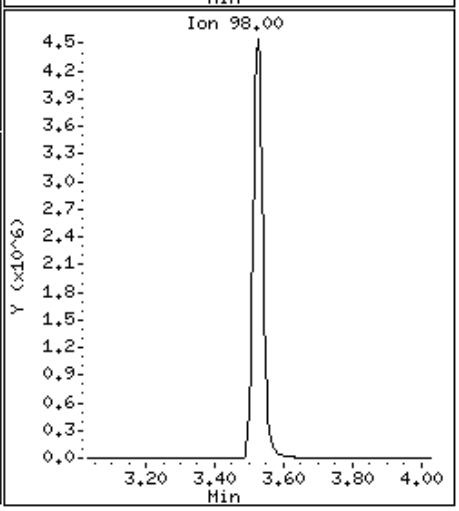












Data File: \\NAHSTWS005\Target\chem\voa6.i\X230718.b\Y071812.D Page 5

Date : 19-JUL-2023 00:59

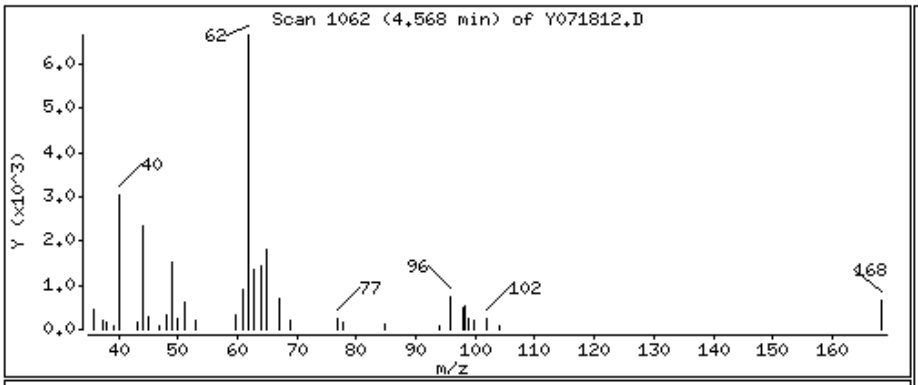
Client ID: HS23070658-05 Instrument: voa6.i

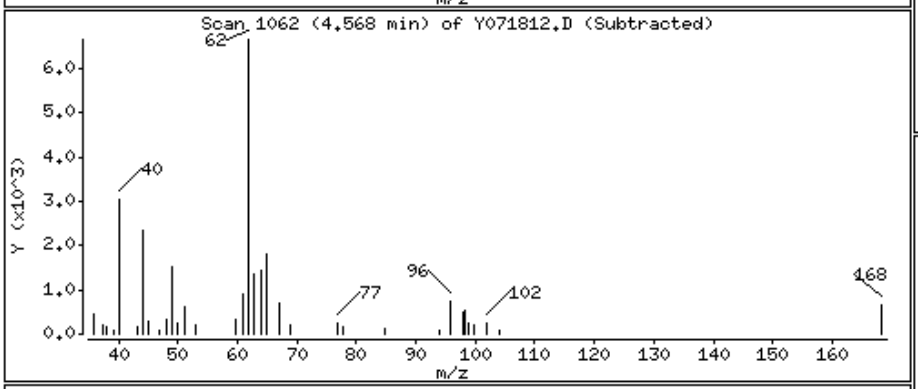
Sample Info: HS23070658-05;HS23070658-05;;;

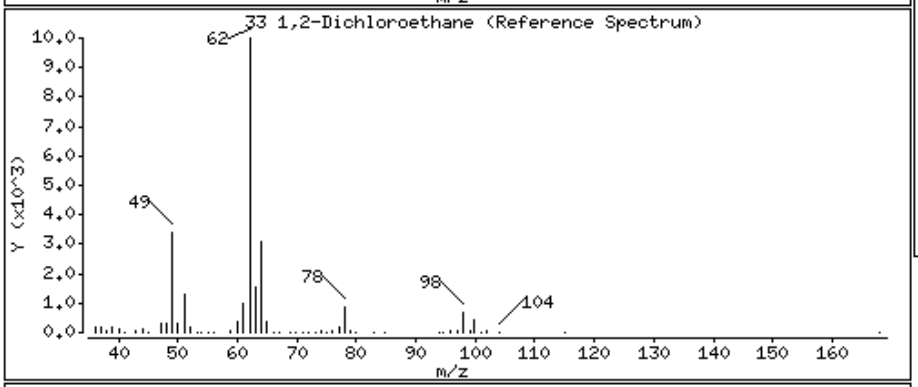
Purge Volume: 5.0 Operator: PC

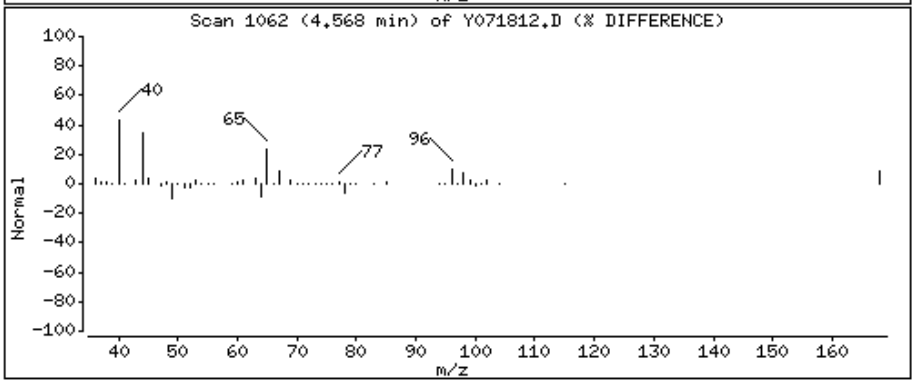
Column phase: DB624 Column diameter: 0.18

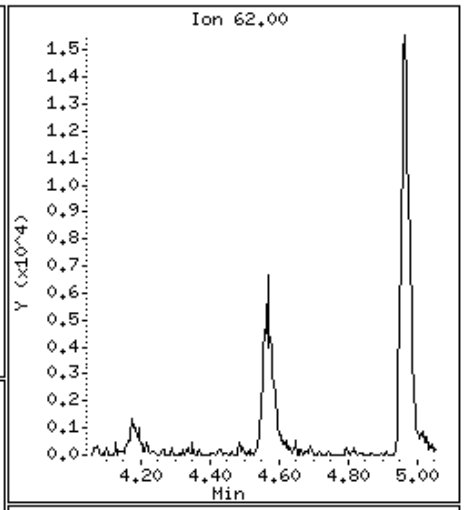
33 1,2-Dichloroethane Concentration: 1.48 ug/l

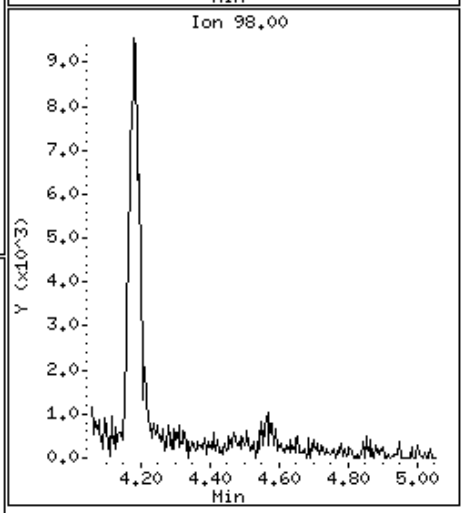












Data File: \\NAHSTWS005\Target\chem\voa6.i\X230718.b\Y071812.D

Date : 19-JUL-2023 00:59

Client ID: HS23070658-05

Instrument: voa6.i

Sample Info: HS23070658-05;HS23070658-05;;;

Purge Volume: 5.0

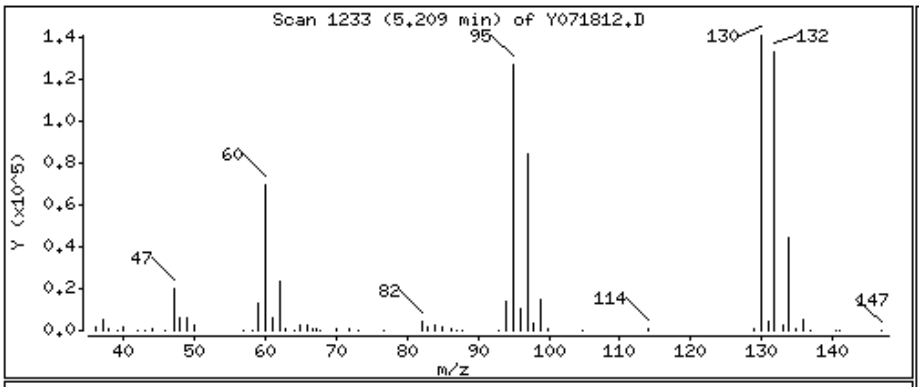
Operator: PC

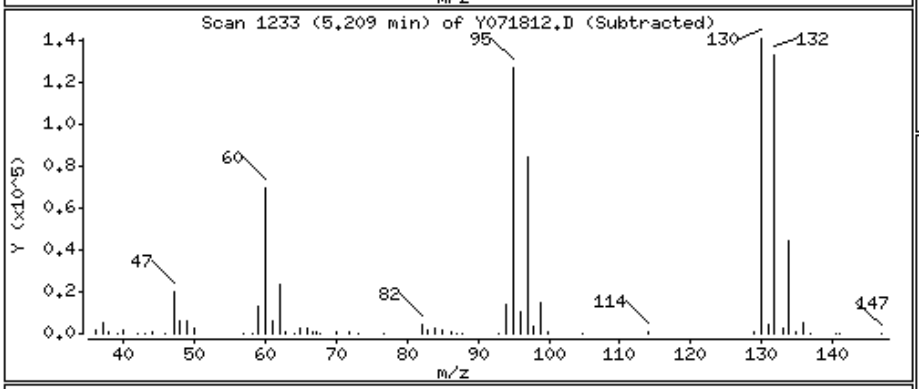
Column phase: DB624

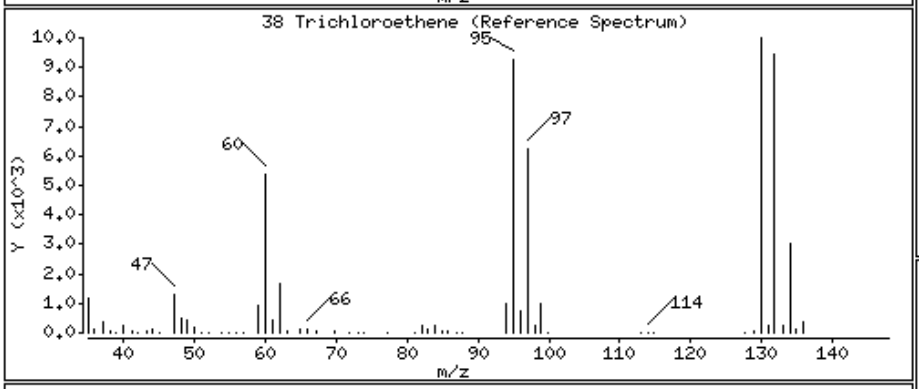
Column diameter: 0.18

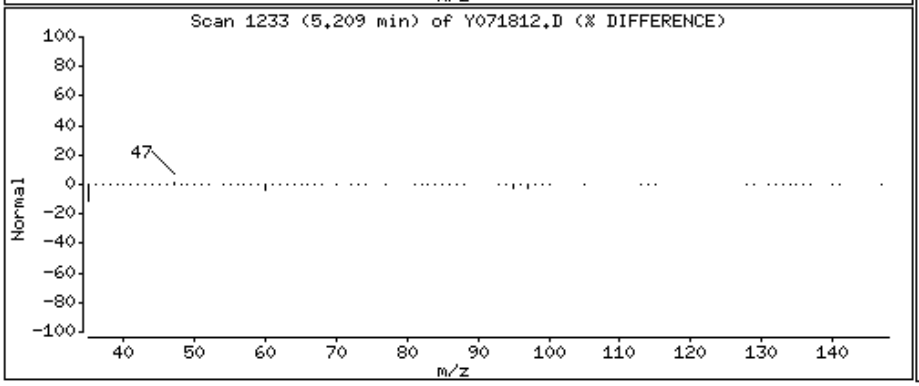
38 Trichloroethene

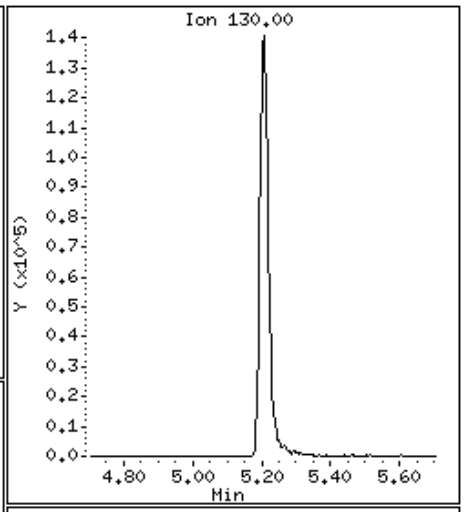
Concentration: 52.82 ug/l

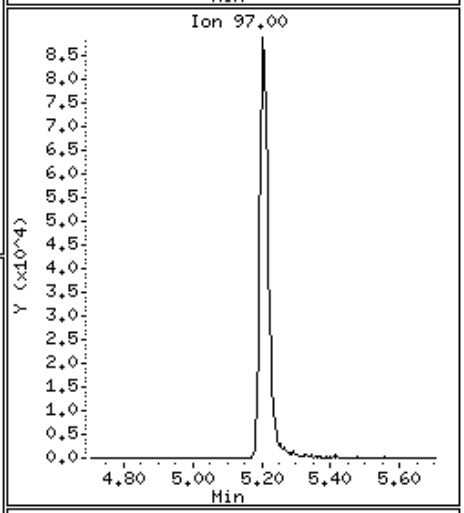


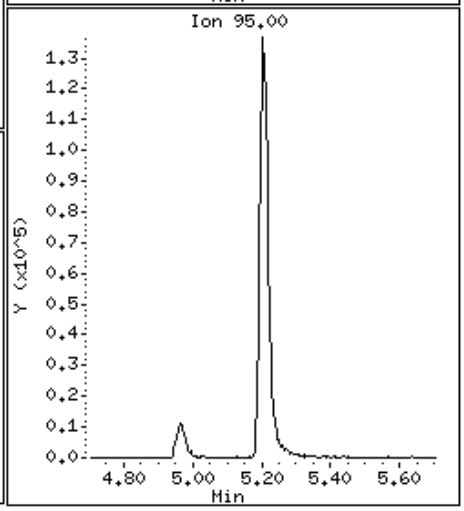












Data File: \\NAHSTWS005\Target\chem\voa6.i\X230718.b\Y071812.D Page 7

Date : 19-JUL-2023 00:59

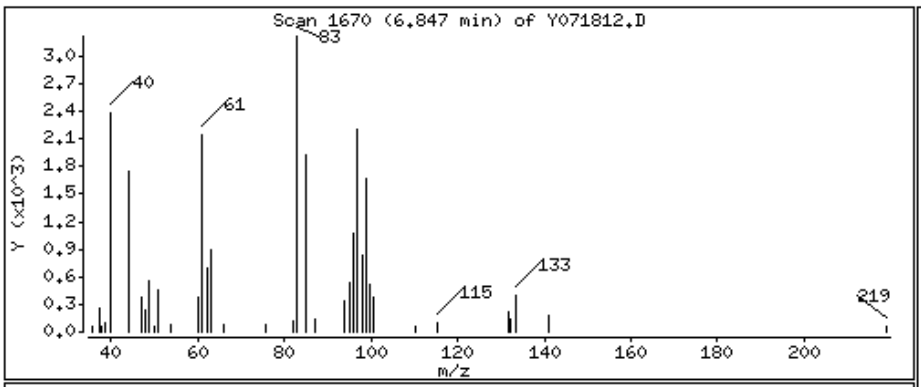
Client ID: HS23070658-05 Instrument: voa6.i

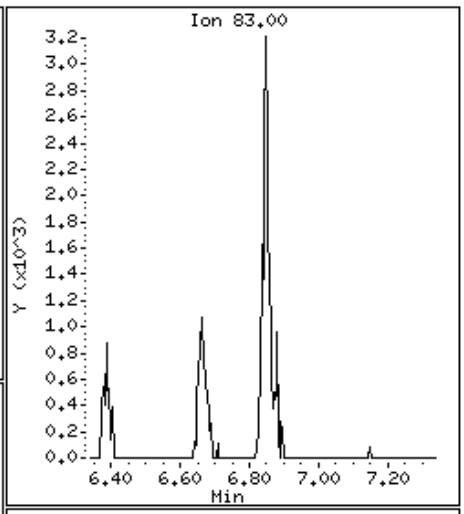
Sample Info: HS23070658-05;HS23070658-05;;;

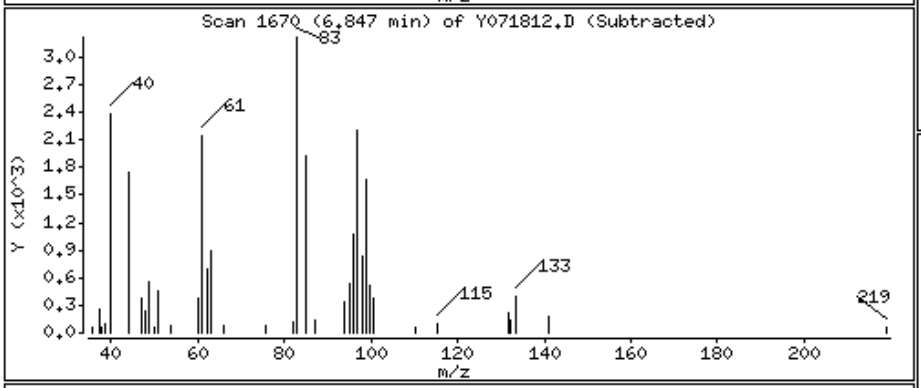
Purge Volume: 5.0 Operator: PC

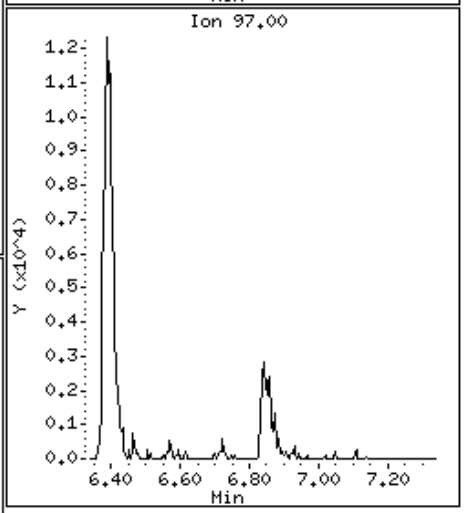
Column phase: DB624 Column diameter: 0.18

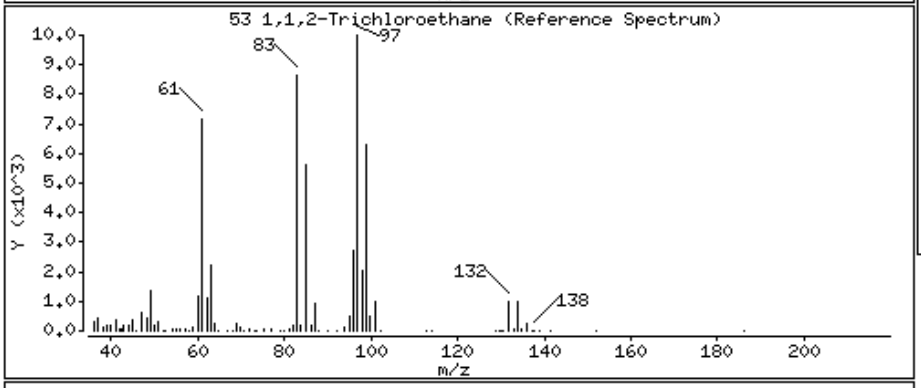
53 1,1,2-Trichloroethane Concentration: 1.11 ug/l

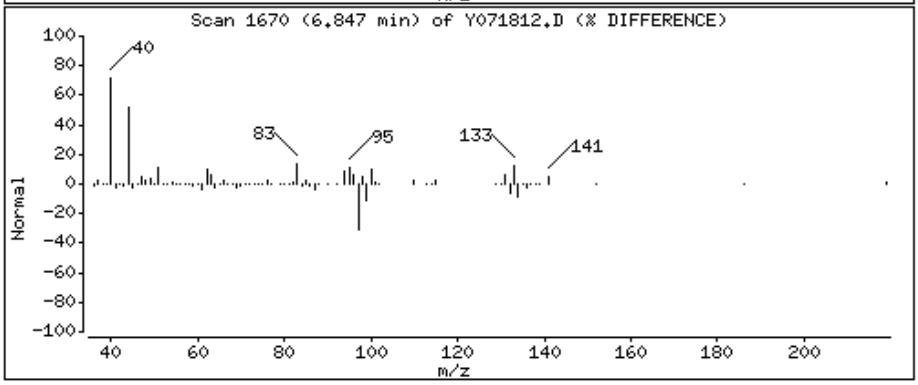












Data File: \\NAHSTWS005\Target\chem\voa6.i\X230718.b\Y071812.D Page 8

Date : 19-JUL-2023 00:59

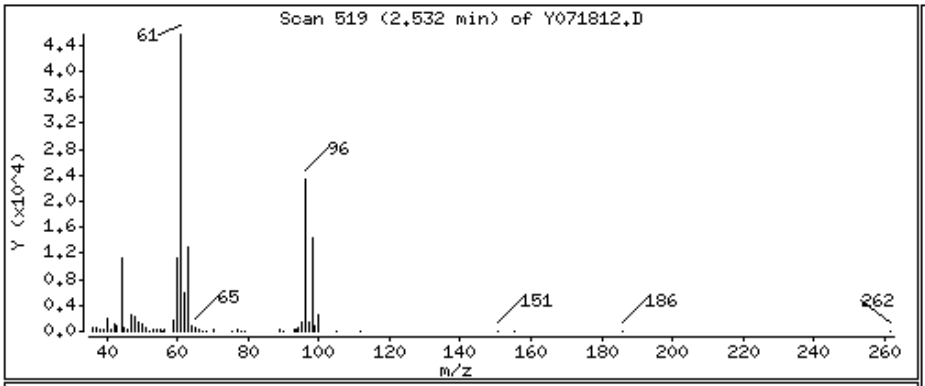
Client ID: HS23070658-05 Instrument: voa6.i

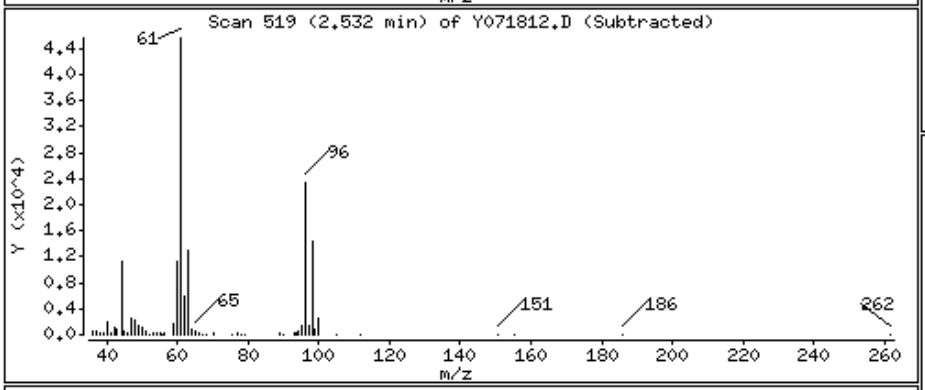
Sample Info: HS23070658-05;HS23070658-05;;;

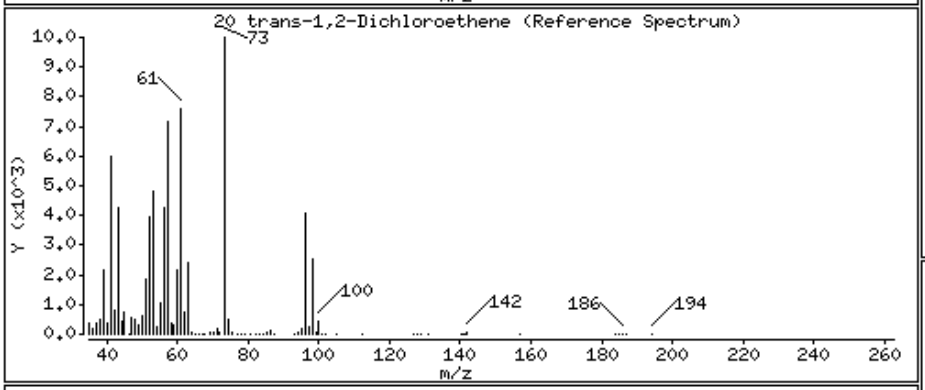
Purge Volume: 5.0 Operator: PC

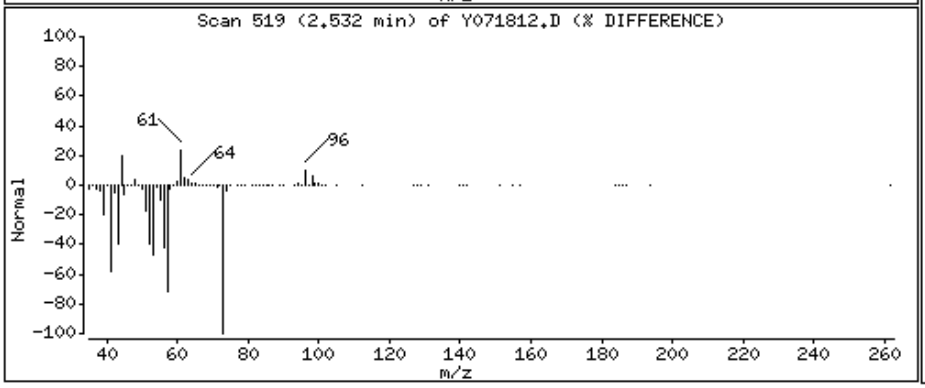
Column phase: DB624 Column diameter: 0.18

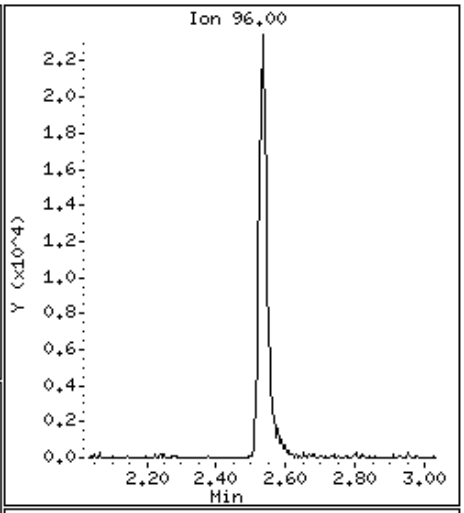
20 trans-1,2-Dichloroethene Concentration: 9.91 ug/l

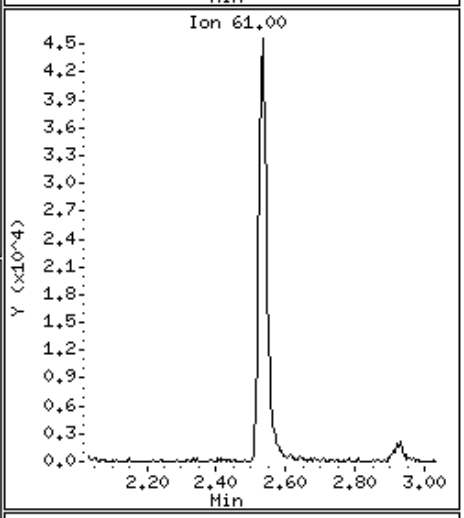


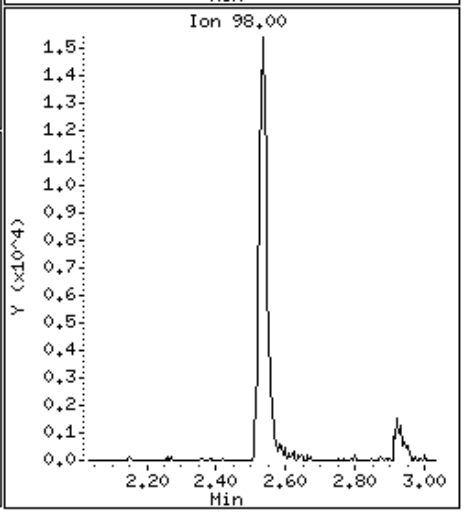












Data File : \\NAHSTWS005\Target\chem\voa6.i\X230718.b\Y071812.D
Inj Date : 19-JUL-2023 00:59
InstruID : voa6.i
LabSampID : HS23070658-05

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230718.b\Y071813.D Page 1
Report Date: 25-Jul-2023 12:40

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230718.b\Y071813.D
Lab Smp Id: HS23070658-05 Client Smp ID: HS23070658-05
Inj Date : 19-JUL-2023 01:19
Operator : PC Inst ID: voa6.i
Smp Info : HS23070658-05;HS23070658-05;;;
Misc Info : V6;WATER;0;20;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230718.b\8260W.m
Meth Date : 25-Jul-2023 12:39 voa6.i Quant Type: ISTD
Cal Date : 14-JUL-2023 14:24 Cal File: X071408.D
Als bottle: 42
Dil Factor: 20.00000
Integrator: HP RTE Compound Sublist: 8260_GB.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	20.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

		QUANT SIG					CONCENTRATIONS ON-COLUMN	FINAL
Compounds		MASS	RT	EXP RT	REL RT	RESPONSE	(ug/l)	(ug/l)
*	1 Pentafluorobenzene	168	4.181	4.178	(1.000)	501638	50.0000	
	5 Vinyl Chloride	62	1.145	1.145	(0.274)	196586	30.2840	605.67
	11 1,1-Dichloroethene	96	1.917	1.917	(0.459)	2018	0.54911	10.98(a)
	18 Methyl tert-butyl ether	73	2.539	2.539	(0.607)	134257	9.82272	196.45
	27 cis-1,2-Dichloroethene	96	3.525	3.529	(0.843)	650044	120.036	2400.72
$	30 Dibromofluoromethane	113	4.099	4.099	(0.980)	244673	53.2671	53.26
$	35 1,2-Dichloroethane-d4	65	4.474	4.470	(1.070)	302701	52.6822	52.68
*	36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	746383	50.0000	
	37 Benzene	78	4.515	4.511	(0.909)	45710	2.56035	51.20(a)
	38 Trichloroethene	130	5.212	5.205	(1.050)	11693	2.31552	46.31(a)
*	47 Chlorobenzene-d5	117	7.668	7.668	(1.000)	655481	50.0000	
$	48 Toluene-d8	98	6.386	6.386	(0.833)	888869	52.6686	52.66
$	69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	315861	48.3832	48.38
*	70 1,4-Dichlorobenzene-d4	152	9.662	9.658	(1.000)	345230	50.0000	
M	94 1,2-Dichloroethylene (total)	96				650044	120.036	2400.72

QC Flag Legend

a - Target compound detected but, quantitated amount

Below Limit Of Quantitation(BLOQ).

01321144

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230718.b\Y071813.D

Date : 19-JUL-2023 01:19

Client ID: HS23070658-05

Instrument: voa6.i

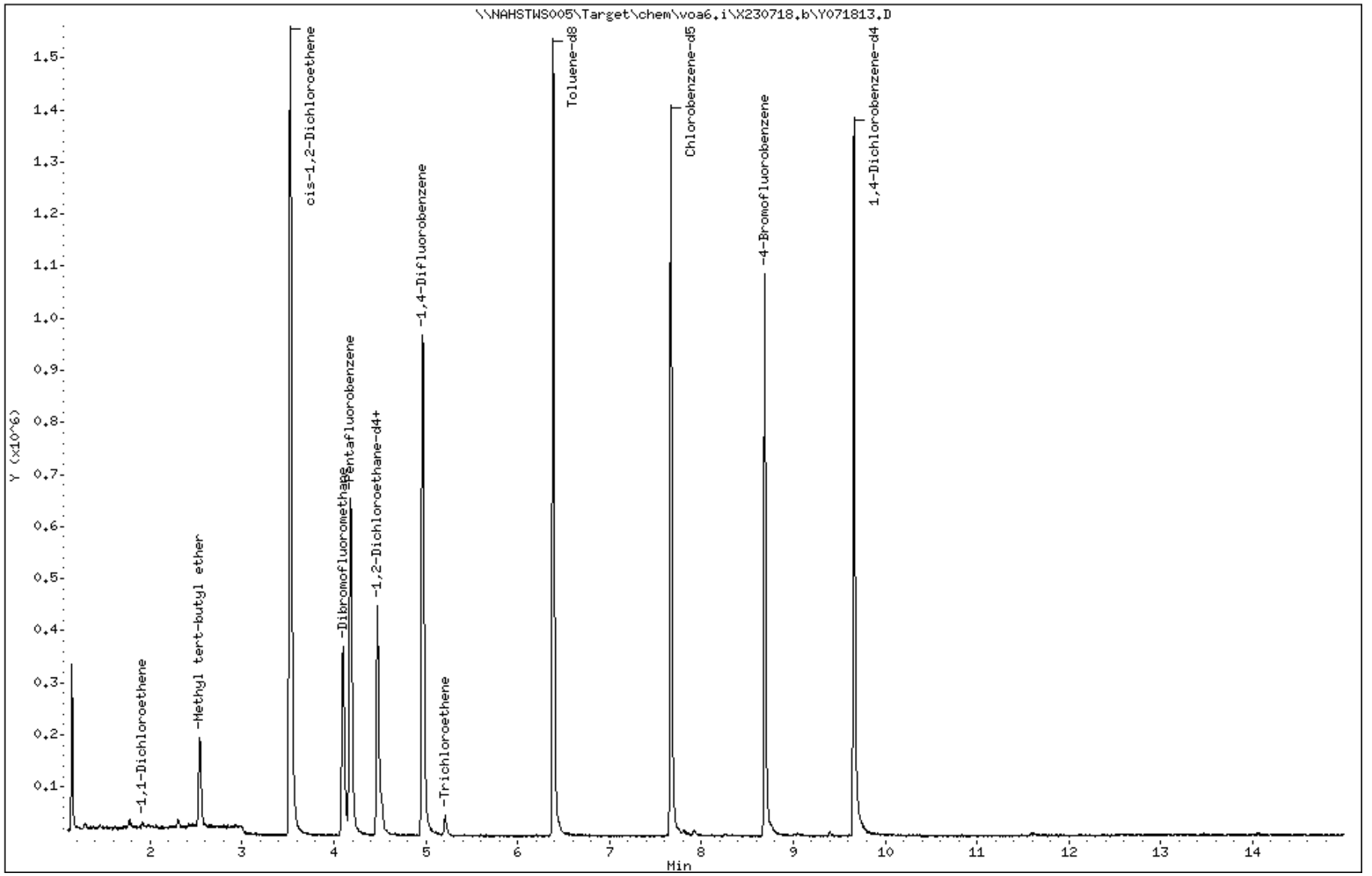
Sample Info: HS23070658-05;HS23070658-05;;;

Purge Volume: 5.0

Operator: PC

Column phase: DB624

Column diameter: 0.18



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230718.b\Y071813.D

Date : 19-JUL-2023 01:19

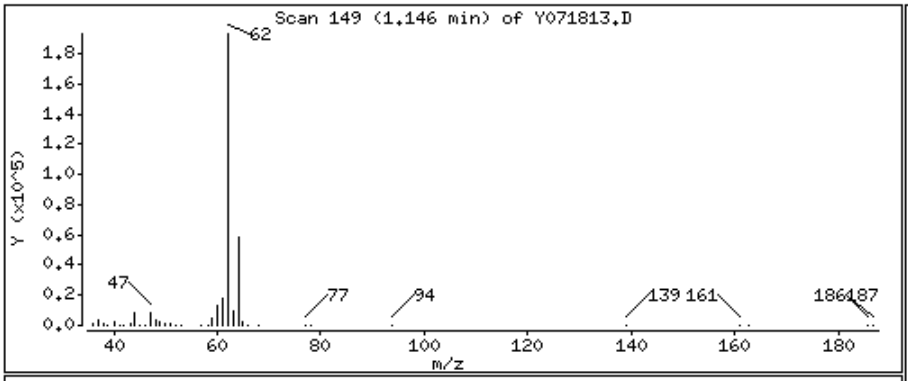
Client ID: HS23070658-05 Instrument: voa6.i

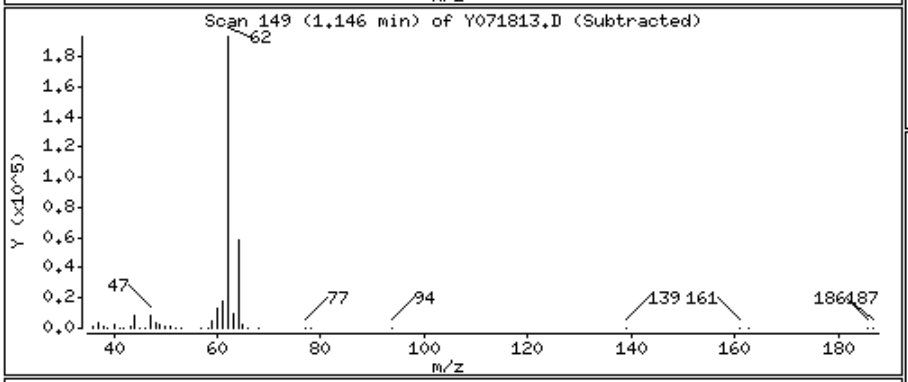
Sample Info: HS23070658-05;HS23070658-05;;;

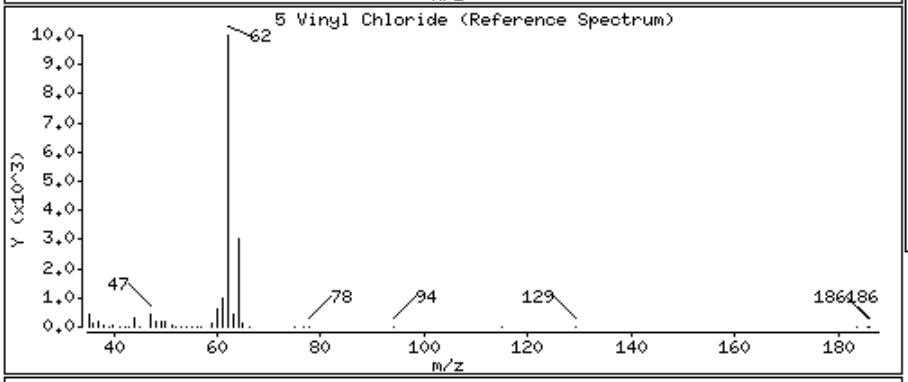
Purge Volume: 5.0 Operator: PC

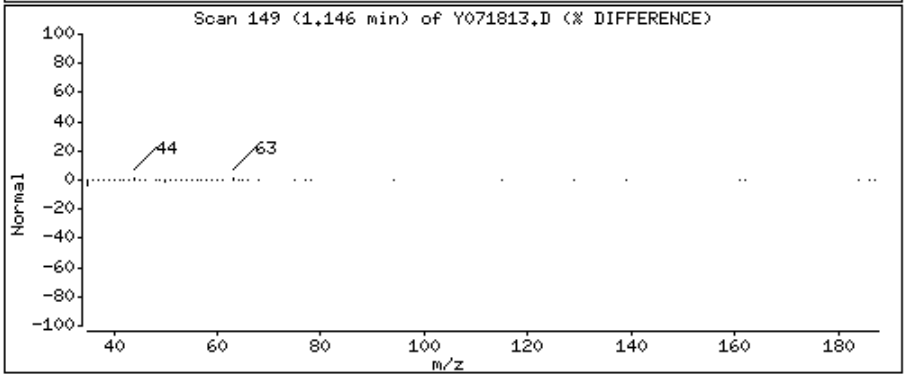
Column phase: DB624 Column diameter: 0.18

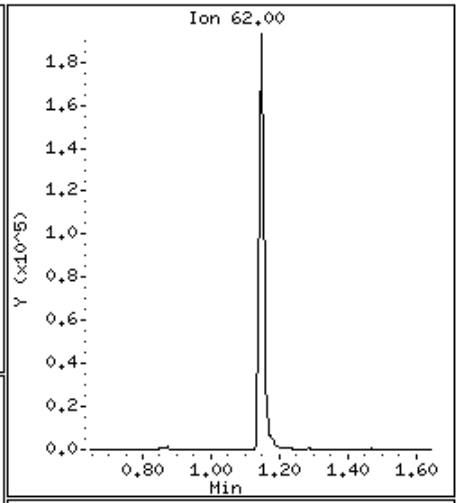
5 Vinyl Chloride Concentration: 605.67 ug/l

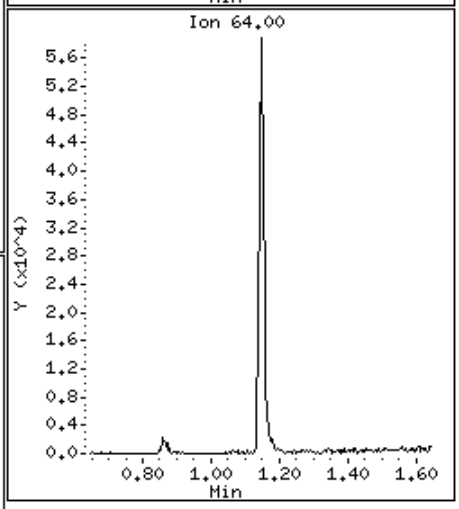












Data File: \\NAHSTWS005\Target\chem\voa6.i\X230718.b\Y071813.D

Date : 19-JUL-2023 01:19

Client ID: HS23070658-05

Instrument: voa6.i

Sample Info: HS23070658-05;HS23070658-05;;;

Purge Volume: 5.0

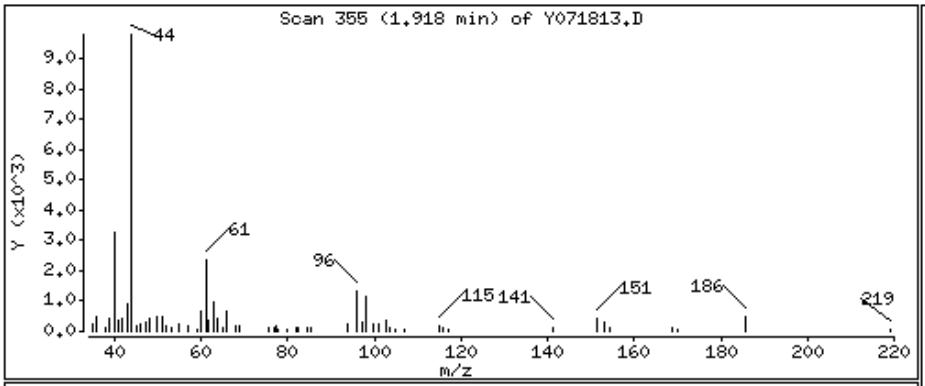
Operator: PC

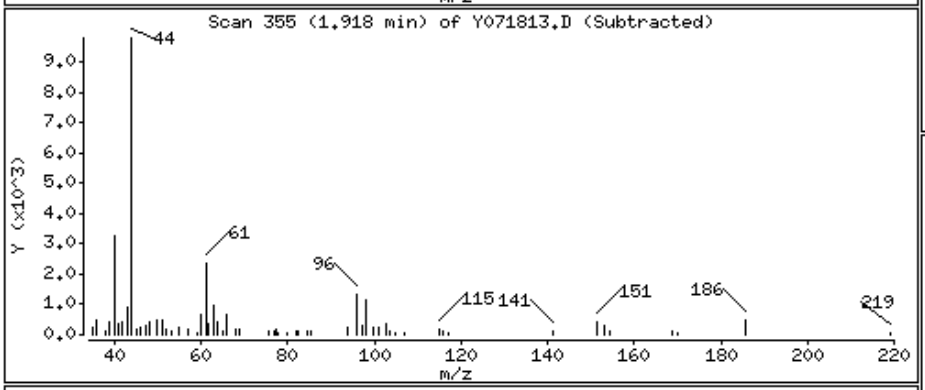
Column phase: DB624

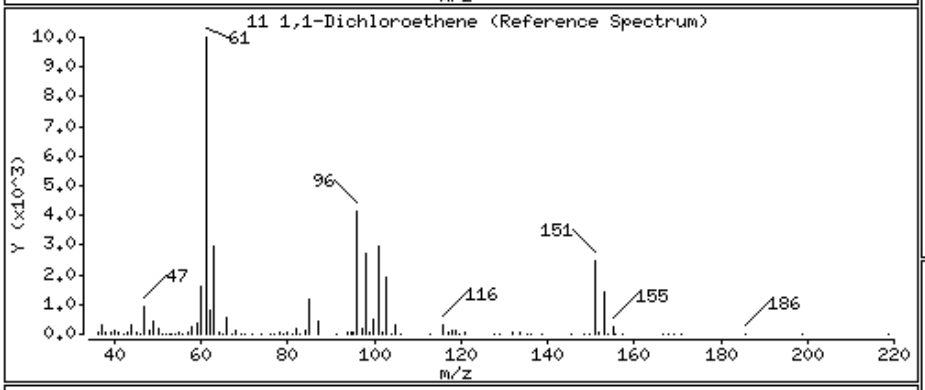
Column diameter: 0.18

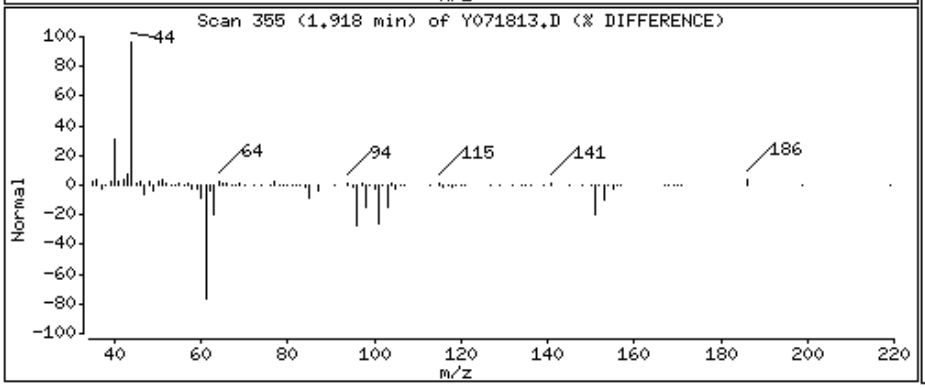
11 1,1-Dichloroethene

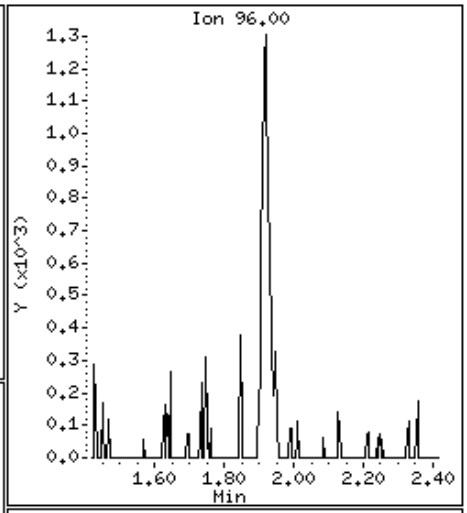
Concentration: 10.98 ug/l

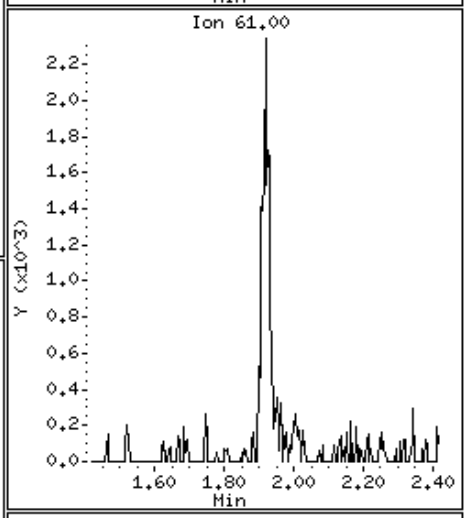


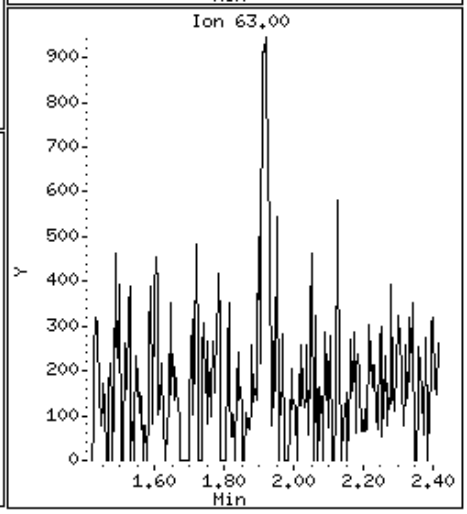












Data File: \\NAHSTWS005\Target\chem\voa6.i\X230718.b\Y071813.D

Date : 19-JUL-2023 01:19

Client ID: HS23070658-05

Instrument: voa6.i

Sample Info: HS23070658-05;HS23070658-05;;;

Purge Volume: 5.0

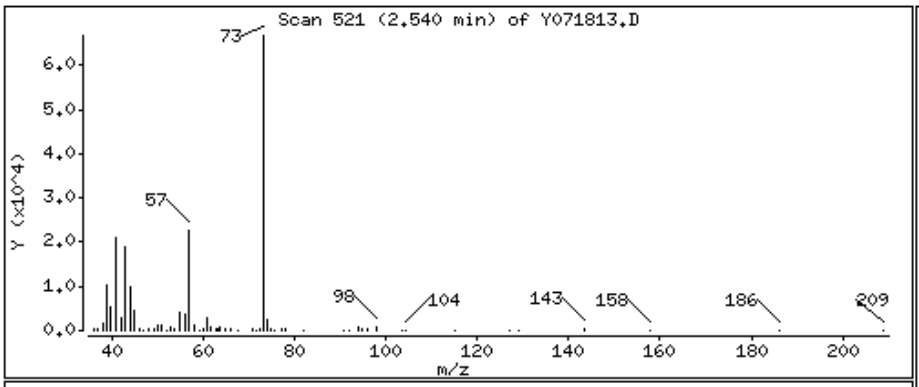
Operator: PC

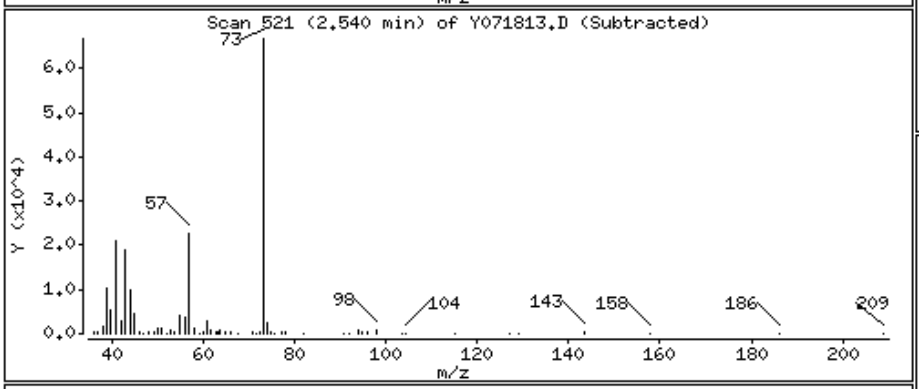
Column phase: DB624

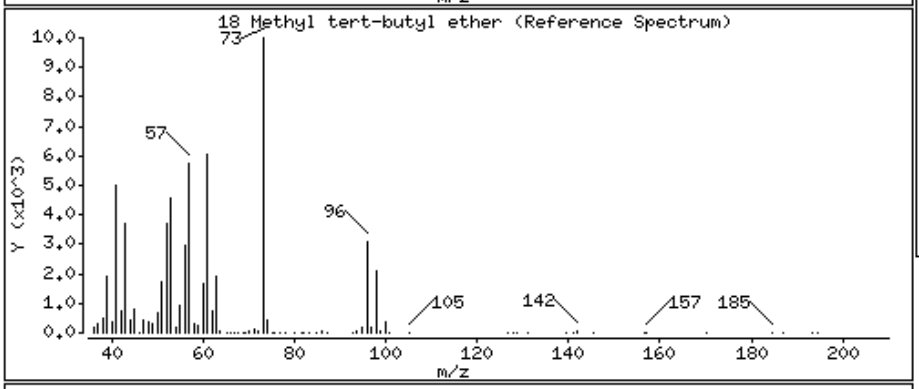
Column diameter: 0.18

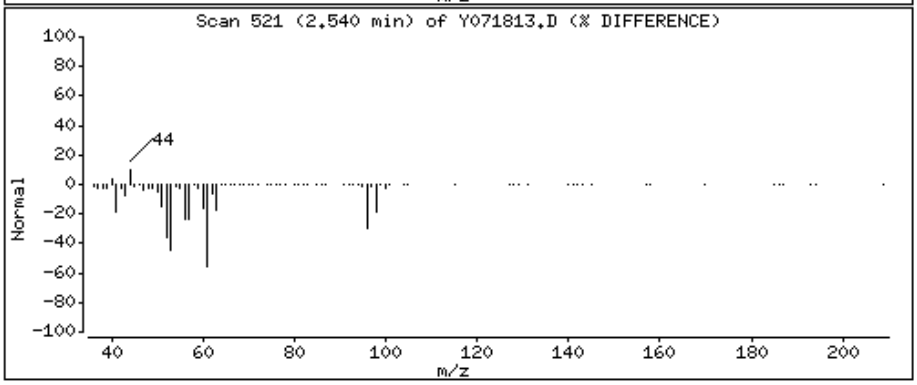
18 Methyl tert-butyl ether

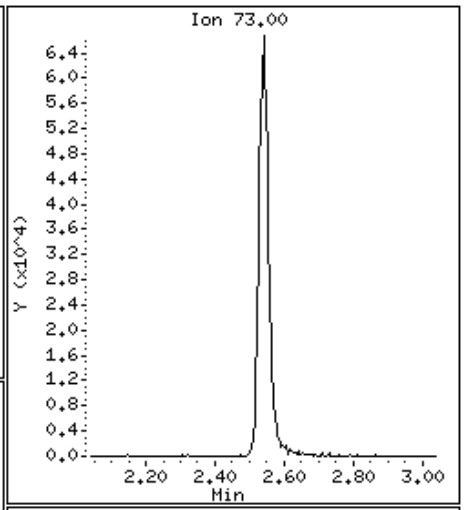
Concentration: 196.45 ug/l

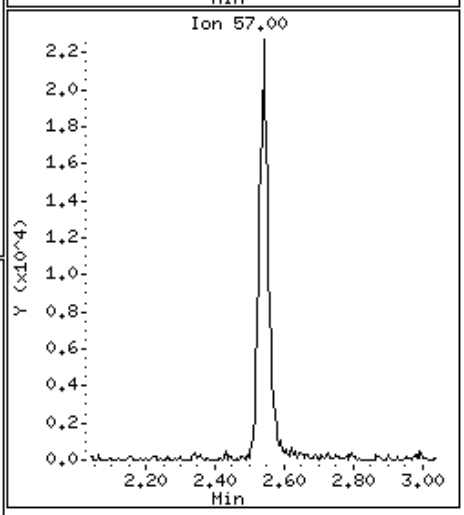












Data File: \\NAHSTWS005\Target\chem\voa6.i\X230718.b\Y071813.D Page 5

Date : 19-JUL-2023 01:19

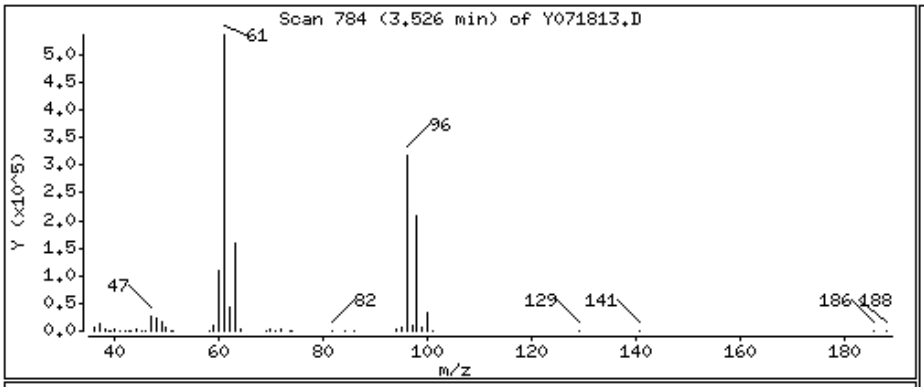
Client ID: HS23070658-05 Instrument: voa6.i

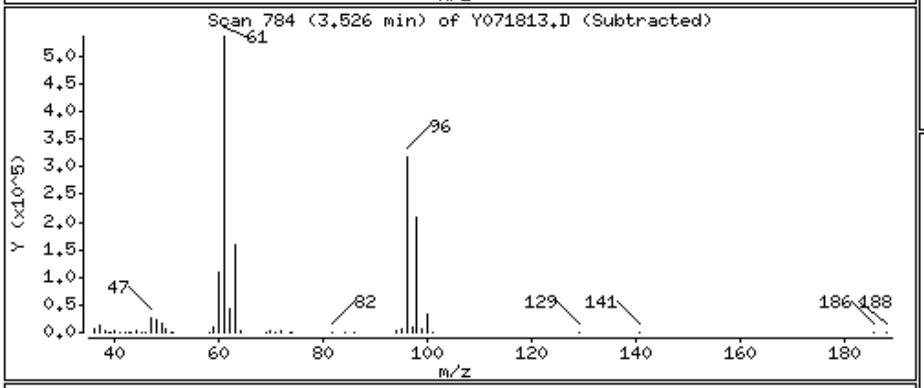
Sample Info: HS23070658-05;HS23070658-05;;;

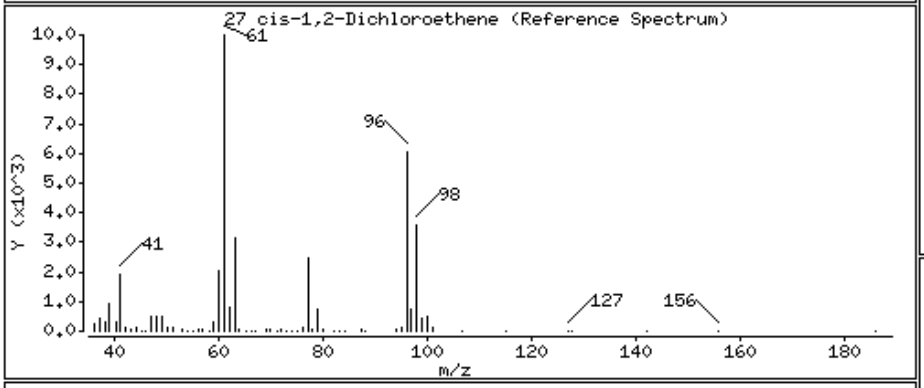
Purge Volume: 5.0 Operator: PC

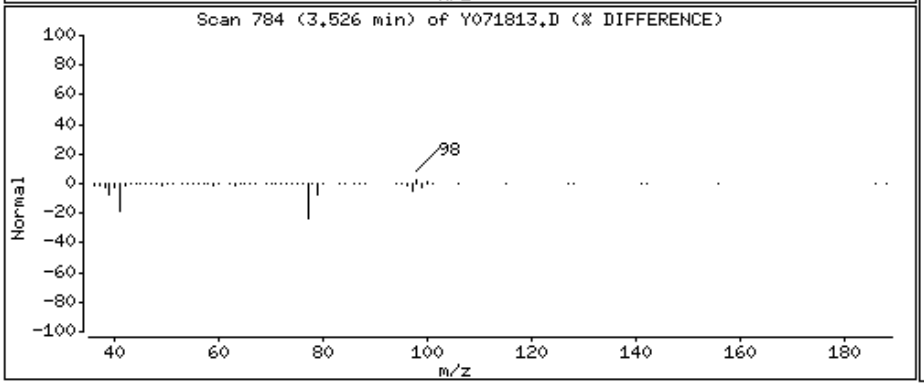
Column phase: DB624 Column diameter: 0.18

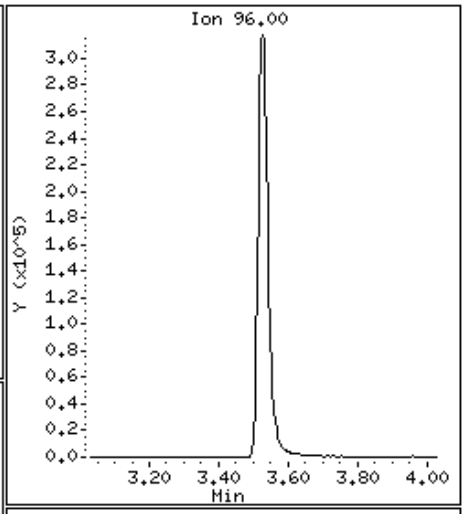
27 cis-1,2-Dichloroethene Concentration: 2400.72 ug/l

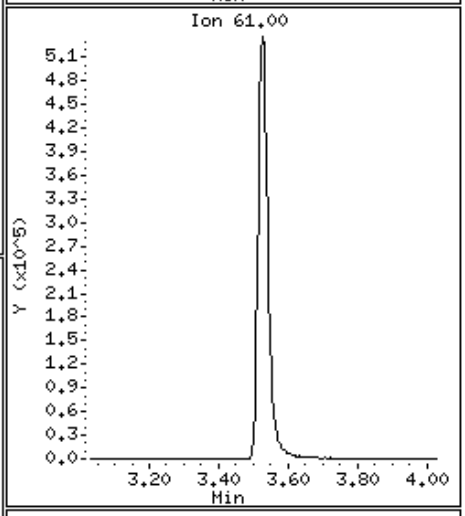


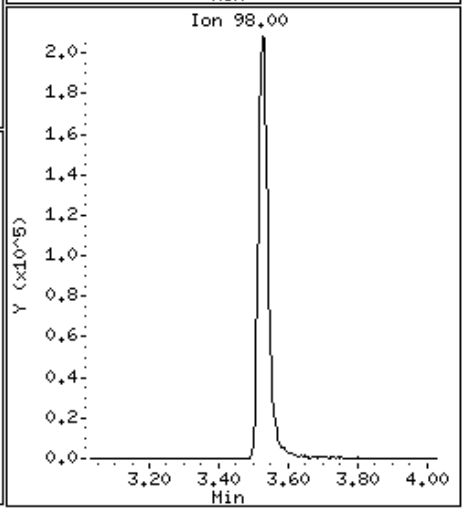












Data File: \\NAHSTWS005\Target\chem\voa6.i\X230718.b\Y071813.D Page 6

Date : 19-JUL-2023 01:19

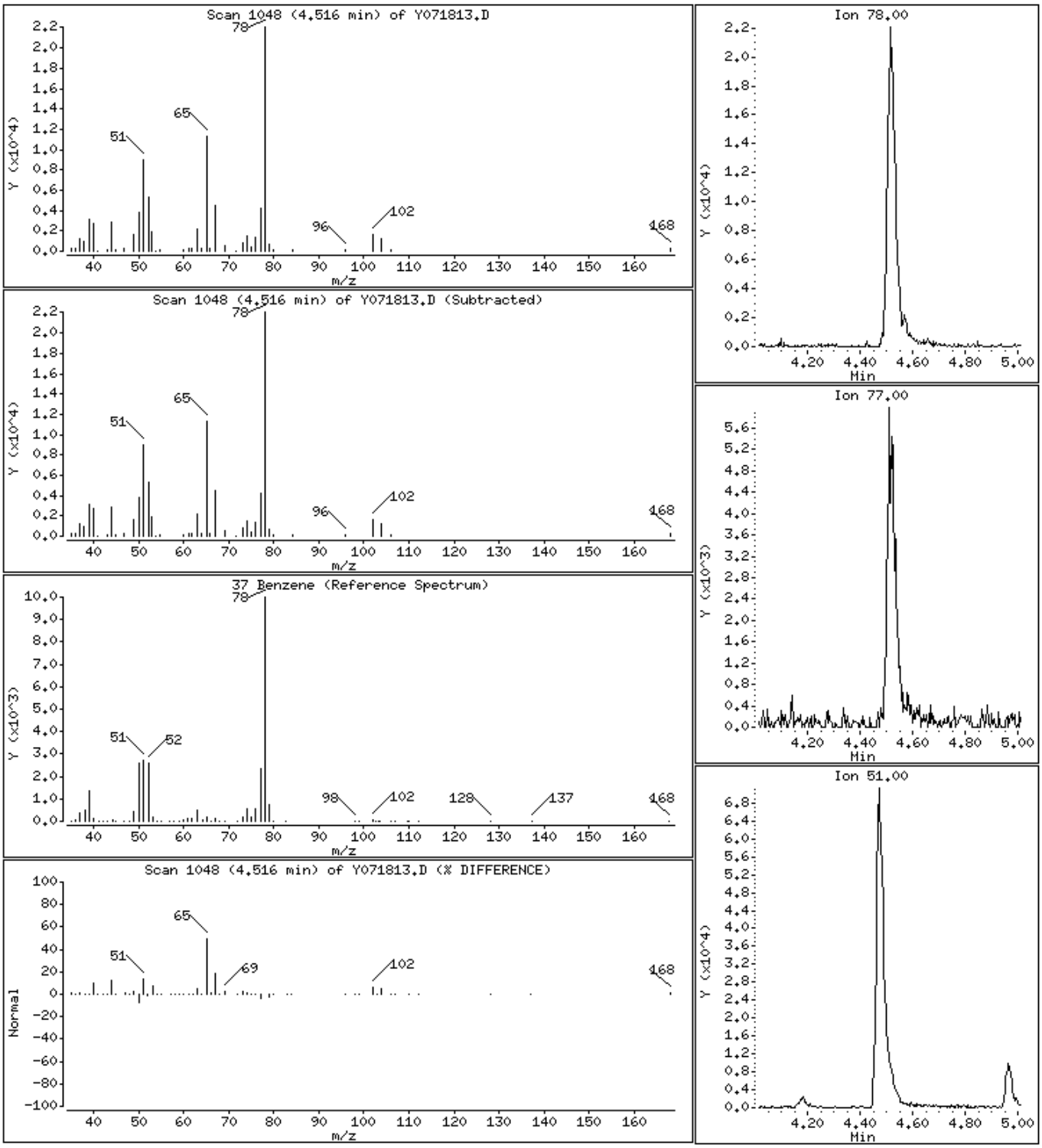
Client ID: HS23070658-05 Instrument: voa6.i

Sample Info: HS23070658-05;HS23070658-05;;;

Purge Volume: 5.0 Operator: PC

Column phase: DB624 Column diameter: 0.18

37 Benzene Concentration: 51.20 ug/l



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230718.b\Y071813.D

Date : 19-JUL-2023 01:19

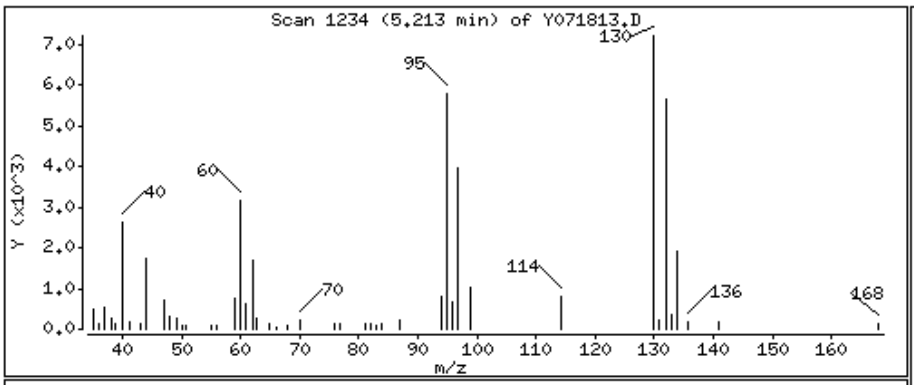
Client ID: HS23070658-05 Instrument: voa6.i

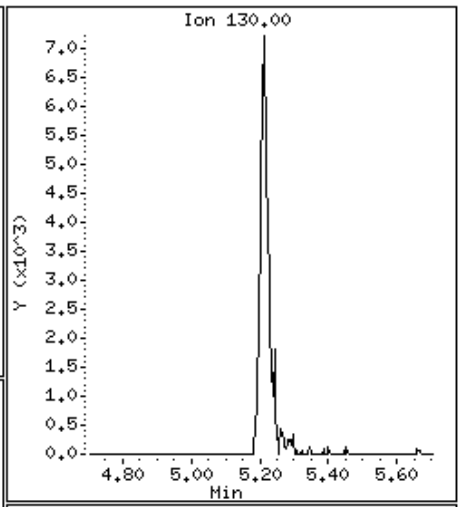
Sample Info: HS23070658-05;HS23070658-05;;;

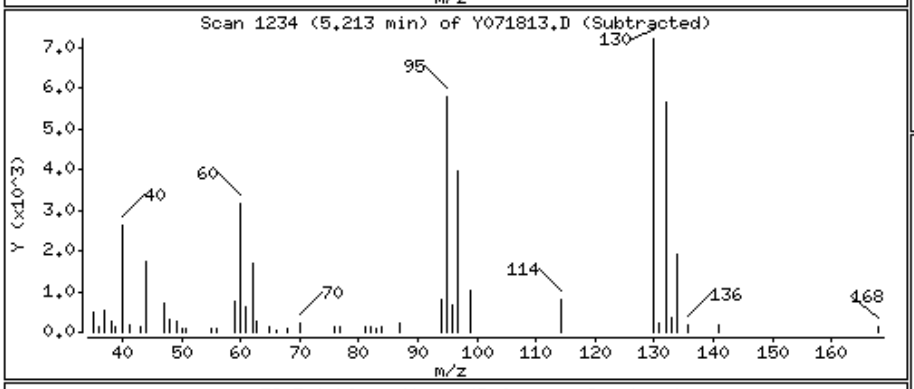
Purge Volume: 5.0 Operator: PC

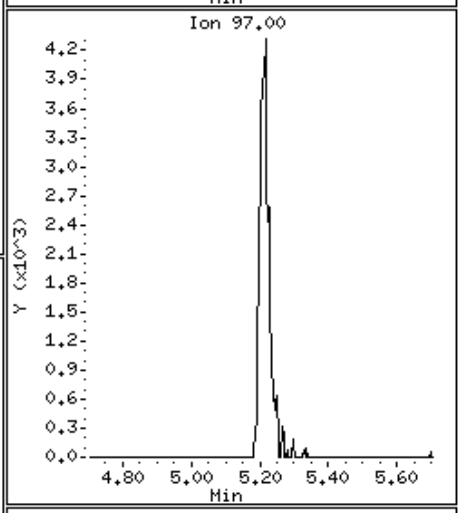
Column phase: DB624 Column diameter: 0.18

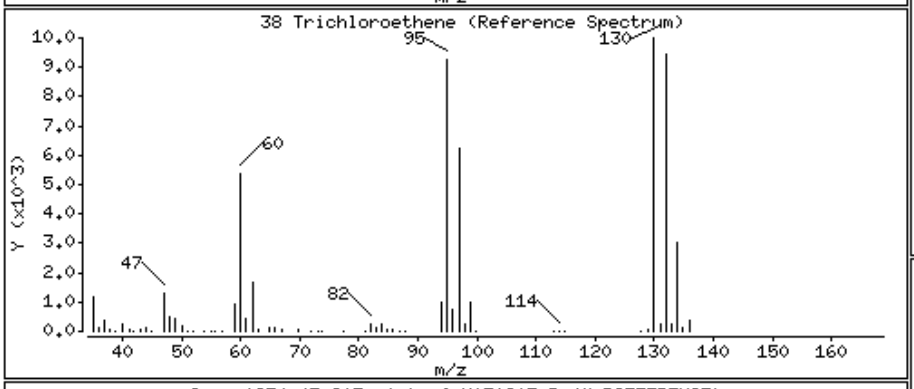
38 Trichloroethene Concentration: 46.31 ug/l

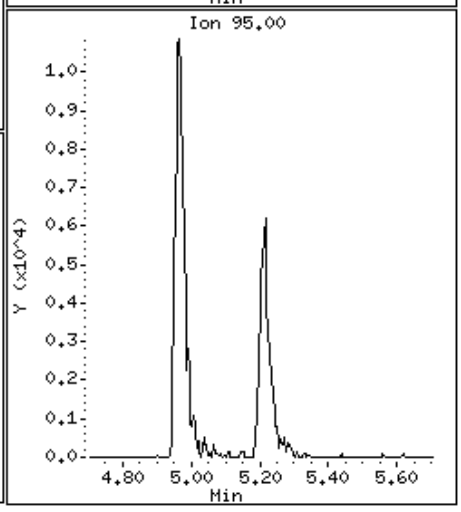


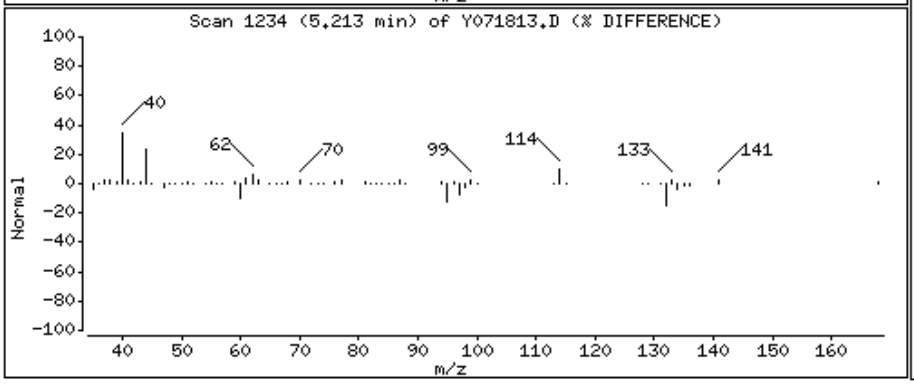












Data File : \\NAHSTWS005\Target\chem\voa6.i\X230718.b\Y071813.D
Inj Date : 19-JUL-2023 01:19
InstruID : voa6.i
LabSampID : HS23070658-05

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230718.b\Y071814.D Page 1
Report Date: 25-Jul-2023 12:40

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230718.b\Y071814.D
Lab Smp Id: HS23070658-06 Client Smp ID: HS23070658-06
Inj Date : 19-JUL-2023 01:40
Operator : PC Inst ID: voa6.i
Smp Info : HS23070658-06;HS23070658-06;;;
Misc Info : V6;WATER;0;100;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230718.b\8260W.m
Meth Date : 25-Jul-2023 12:39 voa6.i Quant Type: ISTD
Cal Date : 14-JUL-2023 14:24 Cal File: X071408.D
Als bottle: 43
Dil Factor: 100.00000
Integrator: HP RTE Compound Sublist: 0474-dod.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	100.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.181	4.178	(1.000)	498268	50.0000	
$ 30 Dibromofluoromethane	113	4.099	4.099	(0.980)	246584	54.0574	54.05
$ 35 1,2-Dichloroethane-d4	65	4.470	4.470	(1.069)	304485	53.3590	53.35
* 36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	727973	50.0000	
* 47 Chlorobenzene-d5	117	7.667	7.668	(1.000)	631880	50.0000	
$ 48 Toluene-d8	98	6.385	6.386	(0.833)	850876	52.3005	52.30
$ 69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	301465	47.8986	47.89
* 70 1,4-Dichlorobenzene-d4	152	9.662	9.658	(1.000)	338690	50.0000	
5 Vinyl Chloride	62	1.149	1.145	(0.275)	10631	1.64878	164.87(a)
11 1,1-Dichloroethene	96	1.917	1.917	(0.459)	3962	1.08537	108.53(a)
27 cis-1,2-Dichloroethene	96	3.533	3.529	(0.845)	41291	7.67631	767.63
38 Trichloroethene	130	5.205	5.205	(1.048)	449028	91.1682	9116.81

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).

01321153

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230718.b\Y071814.D

Date : 19-JUL-2023 01:40

Client ID: HS23070658-06

Instrument: voa6.i

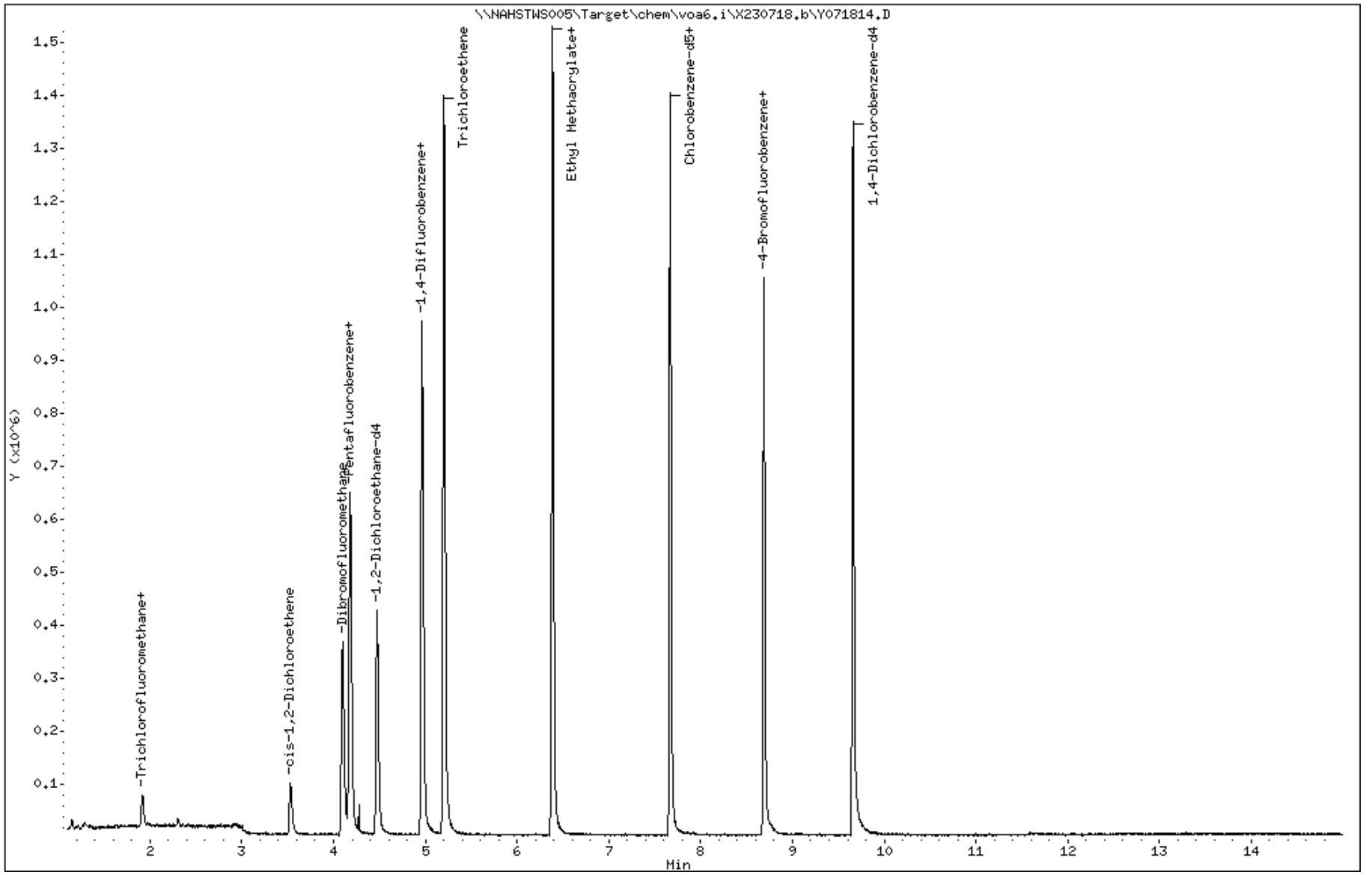
Sample Info: HS23070658-06;HS23070658-06;;;

Purge Volume: 5.0

Operator: PC

Column phase: DB624

Column diameter: 0.18



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230718.b\Y071814.D

Date : 19-JUL-2023 01:40

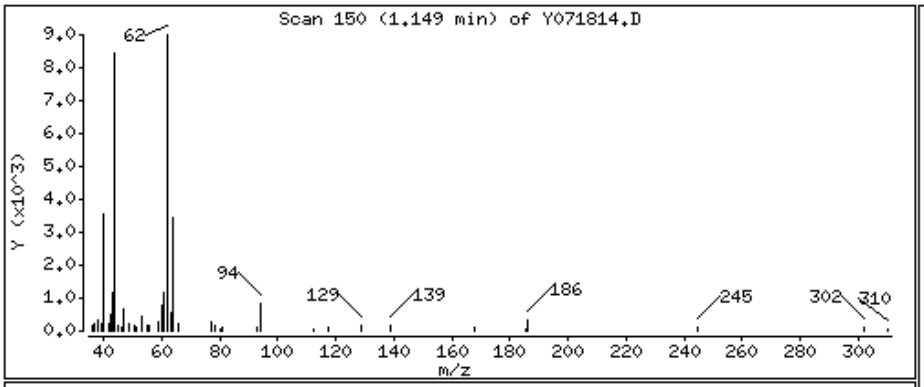
Client ID: HS23070658-06 Instrument: voa6.i

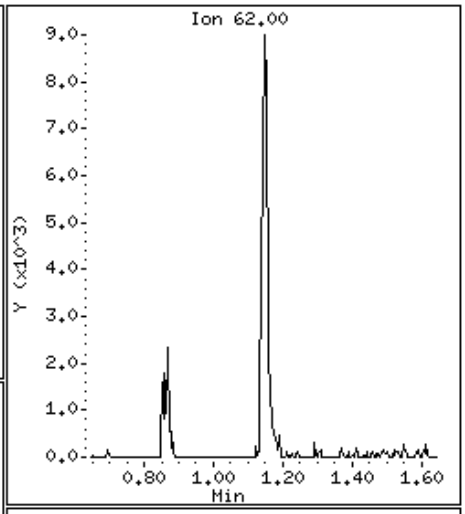
Sample Info: HS23070658-06;HS23070658-06;;;

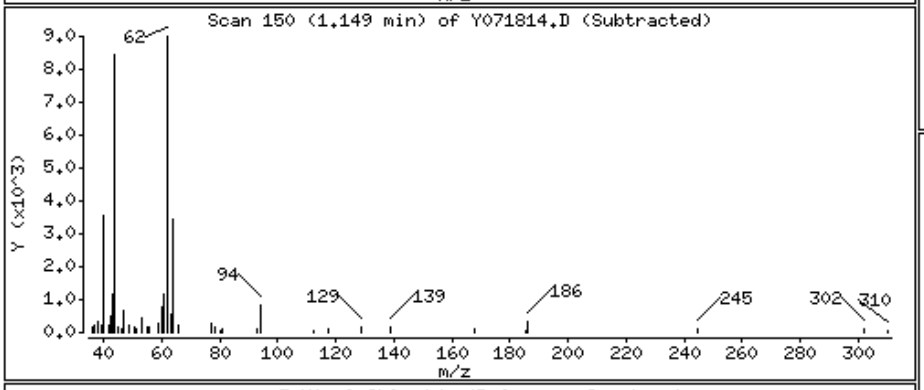
Purge Volume: 5.0 Operator: PC

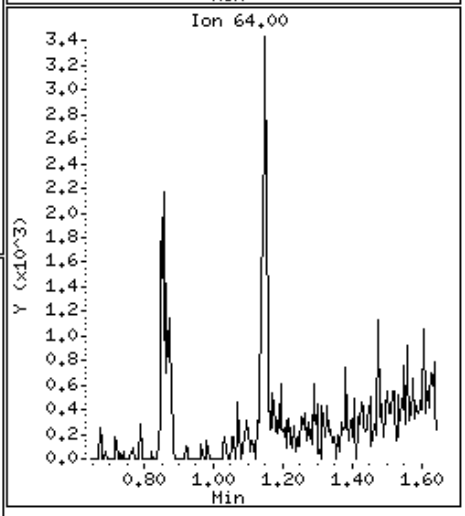
Column phase: DB624 Column diameter: 0.18

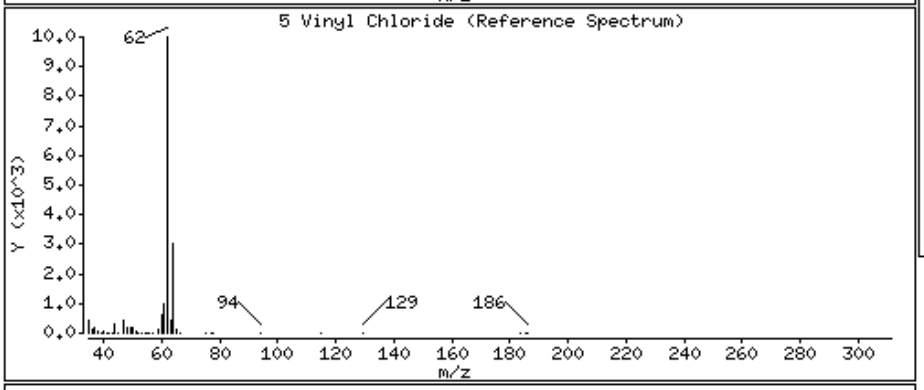
5 Vinyl Chloride Concentration: 164.87 ug/l

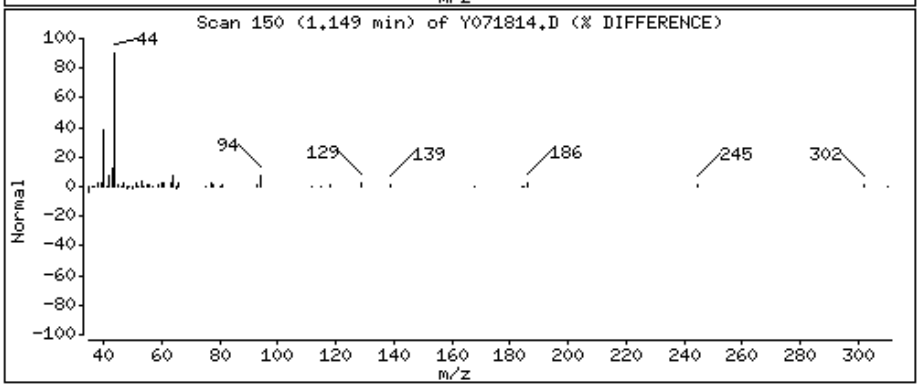












Data File: \\NAHSTWS005\Target\chem\voa6.i\X230718.b\Y071814.D

Date : 19-JUL-2023 01:40

Client ID: HS23070658-06

Instrument: voa6.i

Sample Info: HS23070658-06;HS23070658-06;;;

Purge Volume: 5.0

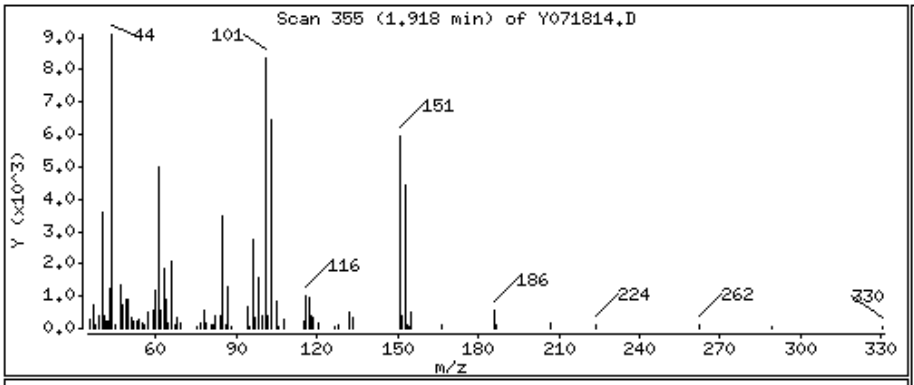
Operator: PC

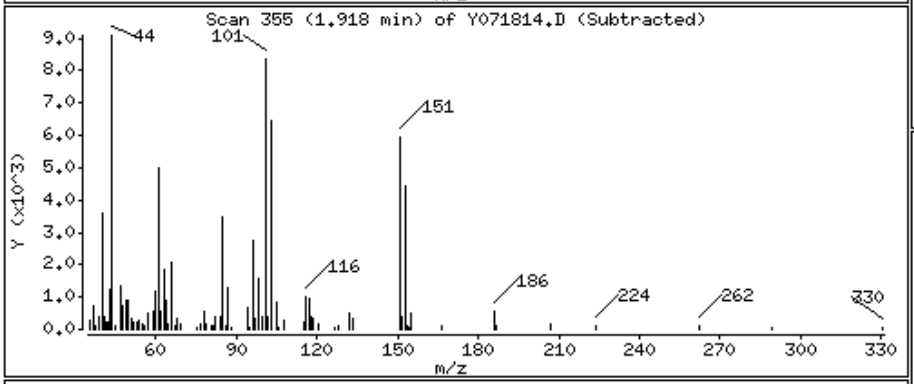
Column phase: DB624

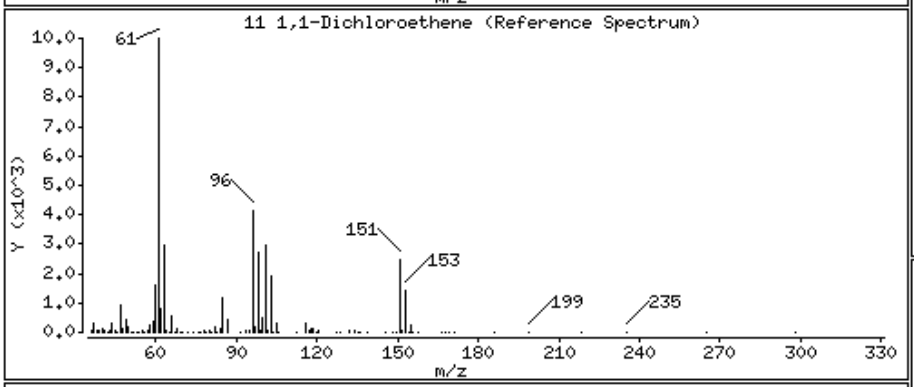
Column diameter: 0.18

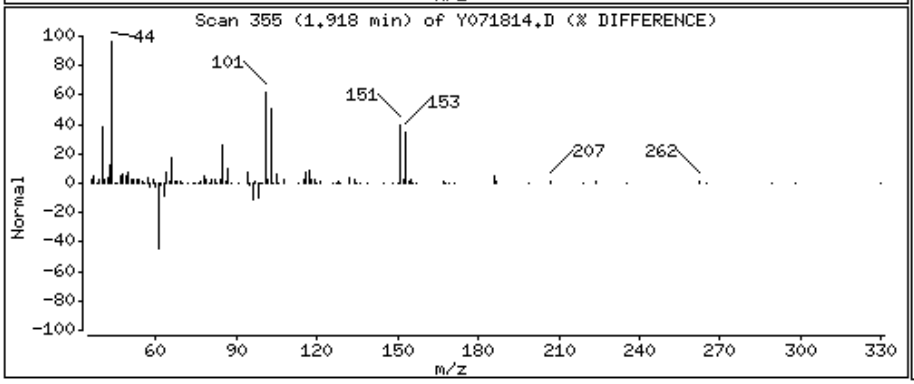
11 1,1-Dichloroethene

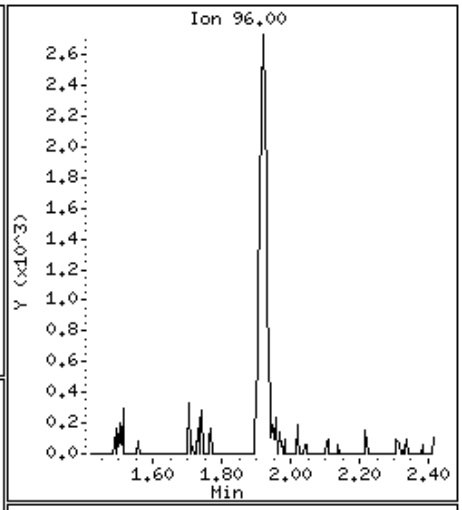
Concentration: 108.53 ug/l

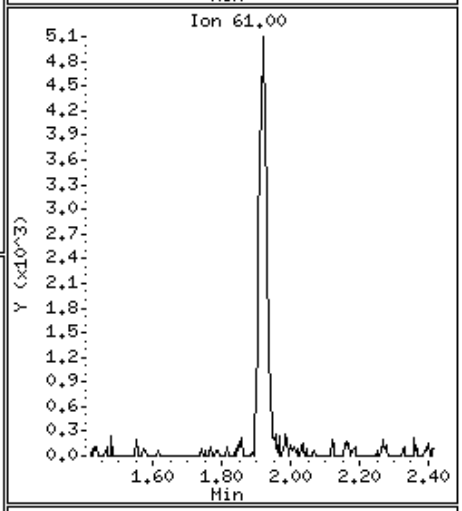


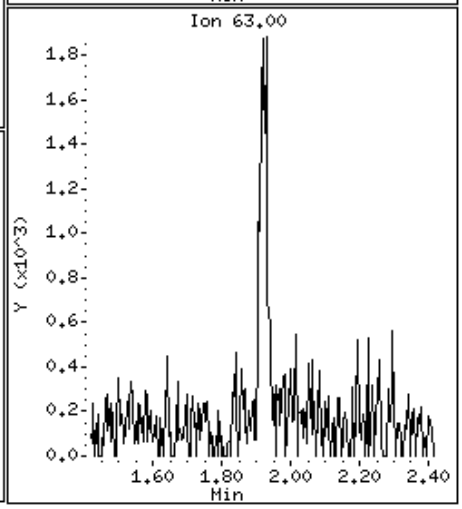












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Date : 19-JUL-2023 01:40

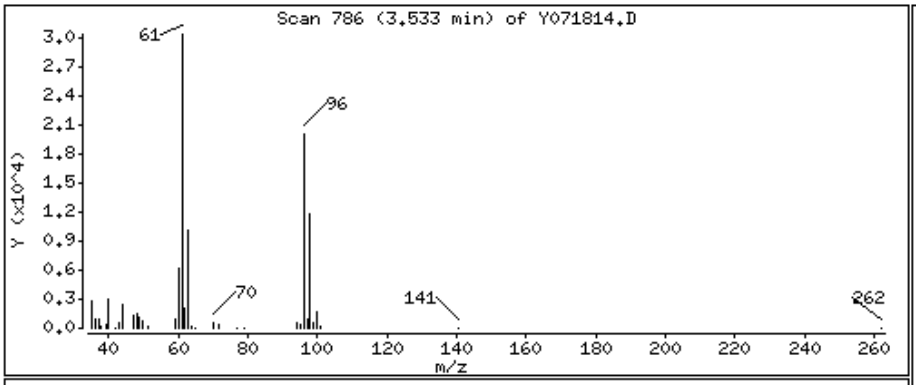
Client ID: HS23070658-06 Instrument: voa6.i

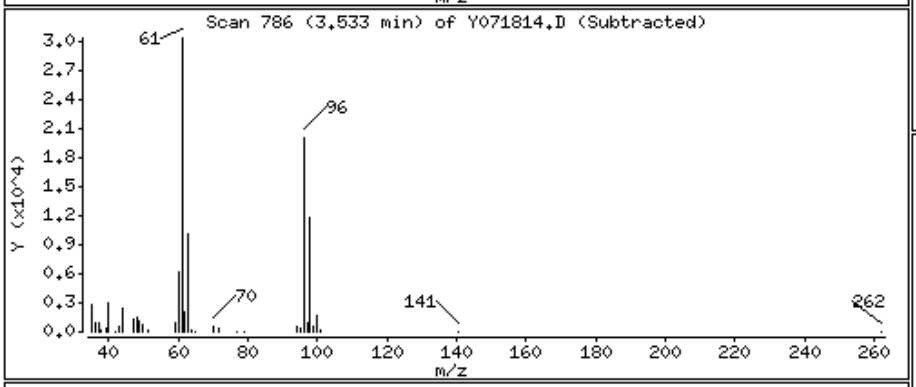
Sample Info: HS23070658-06;HS23070658-06;;;

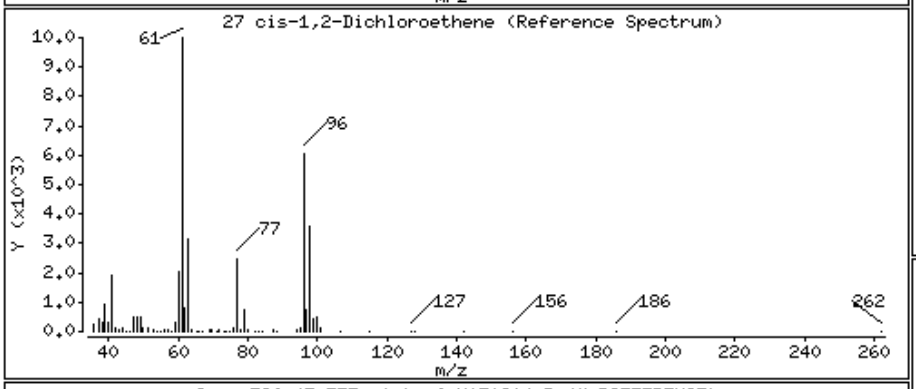
Purge Volume: 5.0 Operator: PC

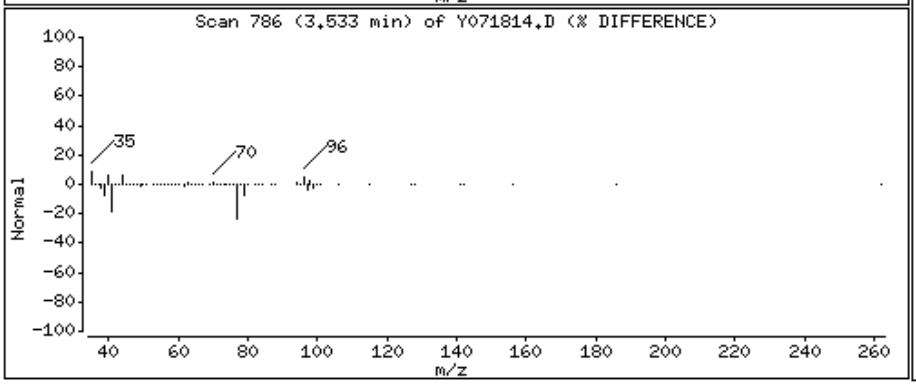
Column phase: DB624 Column diameter: 0.18

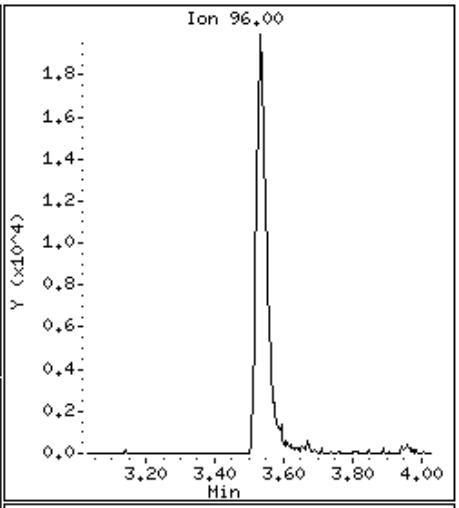
27 cis-1,2-Dichloroethene Concentration: 767.63 ug/l

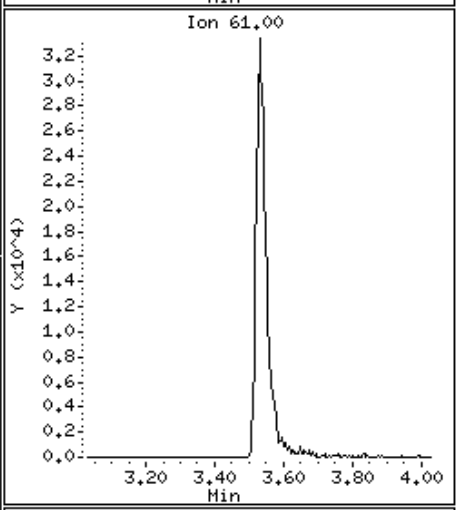


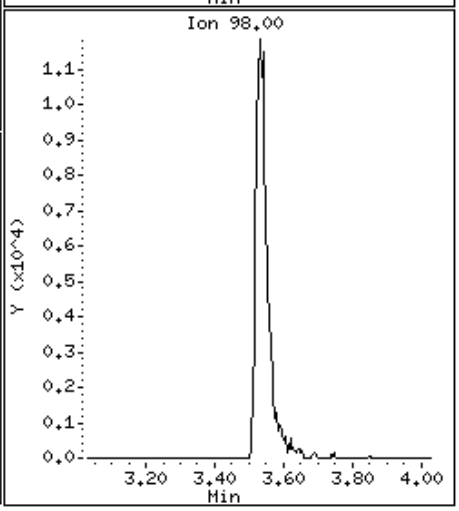












Data File: \\NAHSTWS005\Target\chem\voa6.i\X230718.b\Y071814.D Page 5

Date : 19-JUL-2023 01:40

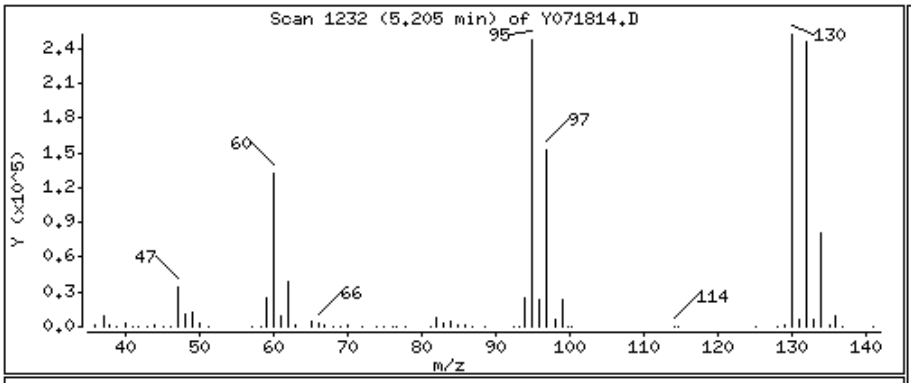
Client ID: HS23070658-06 Instrument: voa6.i

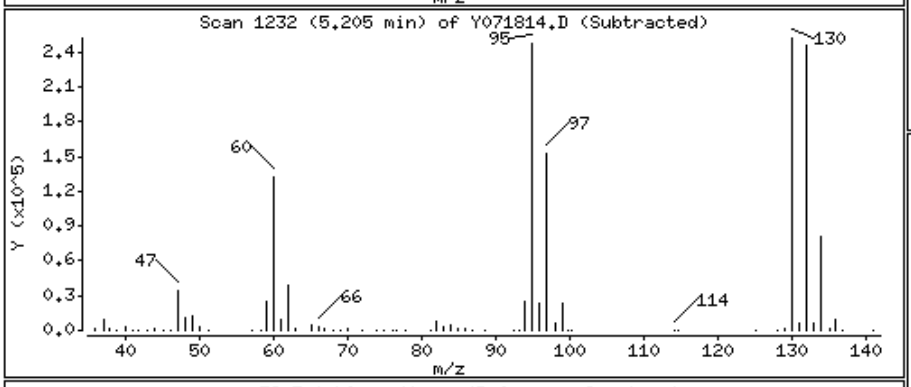
Sample Info: HS23070658-06;HS23070658-06;;;

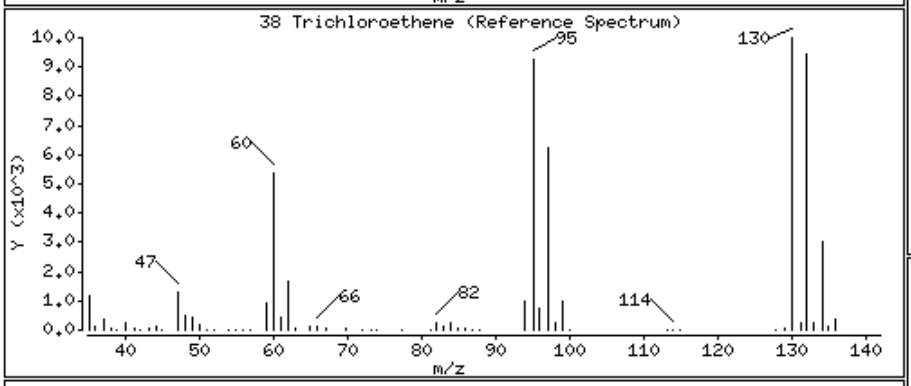
Purge Volume: 5.0 Operator: PC

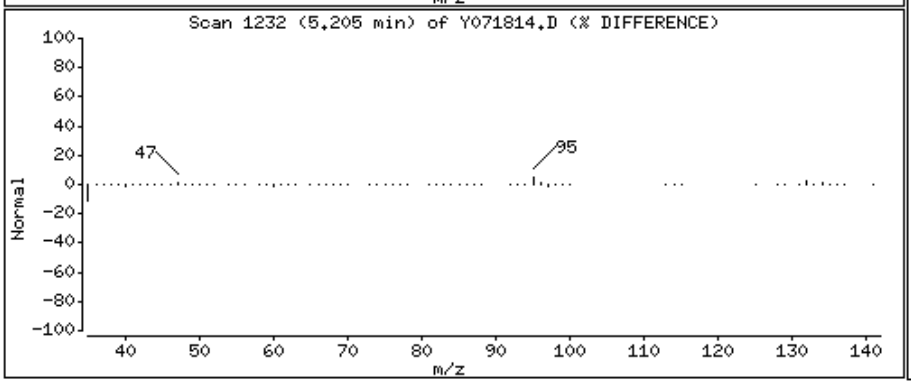
Column phase: DB624 Column diameter: 0.18

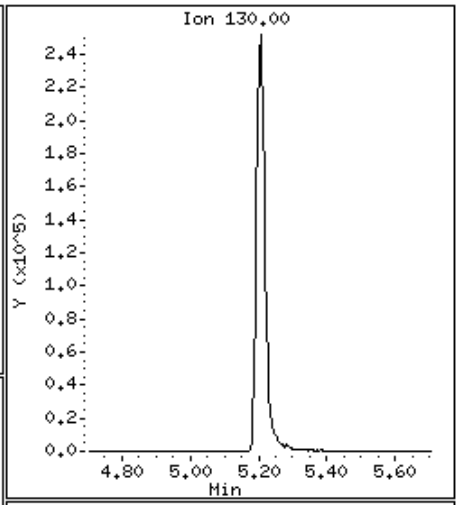
38 Trichloroethene Concentration: 9116.81 ug/l

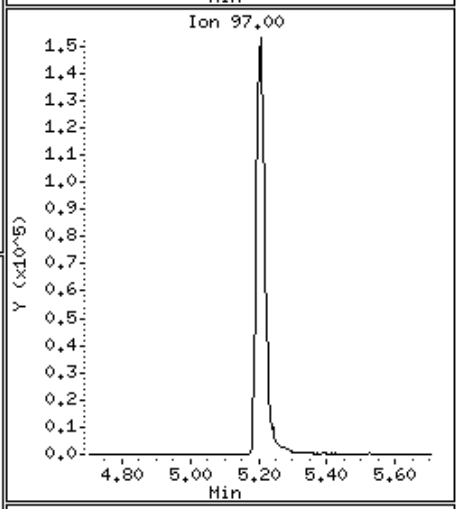


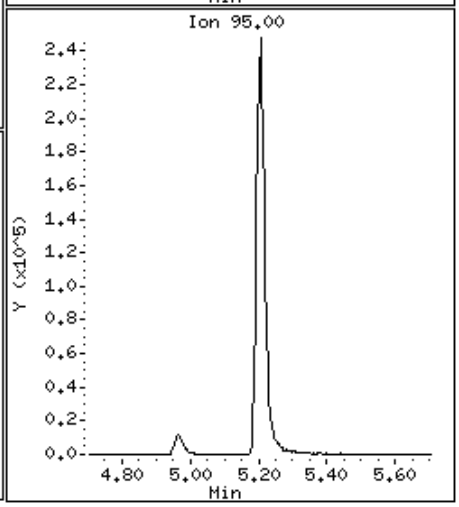












Data File : \\NAHSTWS005\Target\chem\voa6.i\X230718.b\Y071814.D
Inj Date : 19-JUL-2023 01:40
InstruID : voa6.i
LabSampID : HS23070658-06

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230718.b\Y071816.D Page 1
Report Date: 25-Jul-2023 12:40

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230718.b\Y071816.D
Lab Smp Id: HS23070658-09 Client Smp ID: HS23070658-09
Inj Date : 19-JUL-2023 02:21
Operator : PC Inst ID: voa6.i
Smp Info : HS23070658-09;HS23070658-09;;;
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230718.b\8260W.m
Meth Date : 25-Jul-2023 12:39 voa6.i Quant Type: ISTD
Cal Date : 14-JUL-2023 14:24 Cal File: X071408.D
Als bottle: 45
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 0474-dod.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.177	4.178	(1.000)	477836	50.0000	
$ 30 Dibromofluoromethane	113	4.103	4.099	(0.982)	234839	53.6787	53.67
$ 35 1,2-Dichloroethane-d4	65	4.474	4.470	(1.071)	296299	54.1539	54.15
* 36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	725543	50.0000	
* 47 Chlorobenzene-d5	117	7.667	7.668	(1.000)	638170	50.0000	
$ 48 Toluene-d8	98	6.385	6.386	(0.833)	830369	50.5370	50.53
$ 69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	302694	47.6173	47.61
* 70 1,4-Dichlorobenzene-d4	152	9.662	9.658	(1.000)	336736	50.0000	
5 Vinyl Chloride	62	1.145	1.145	(0.274)	35453	5.73356	5.73
11 1,1-Dichloroethene	96	1.913	1.917	(0.458)	7511	2.14559	2.14(a)
27 cis-1,2-Dichloroethene	96	3.525	3.529	(0.844)	417280	80.8926	80.89
38 Trichloroethene	130	5.205	5.205	(1.048)	5516997	1123.89	1123.89(A)

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
    exceeded maximum amount.

01321160

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230718.b\Y071816.D

Date : 19-JUL-2023 02:21

Client ID: HS23070658-09

Instrument: voa6.i

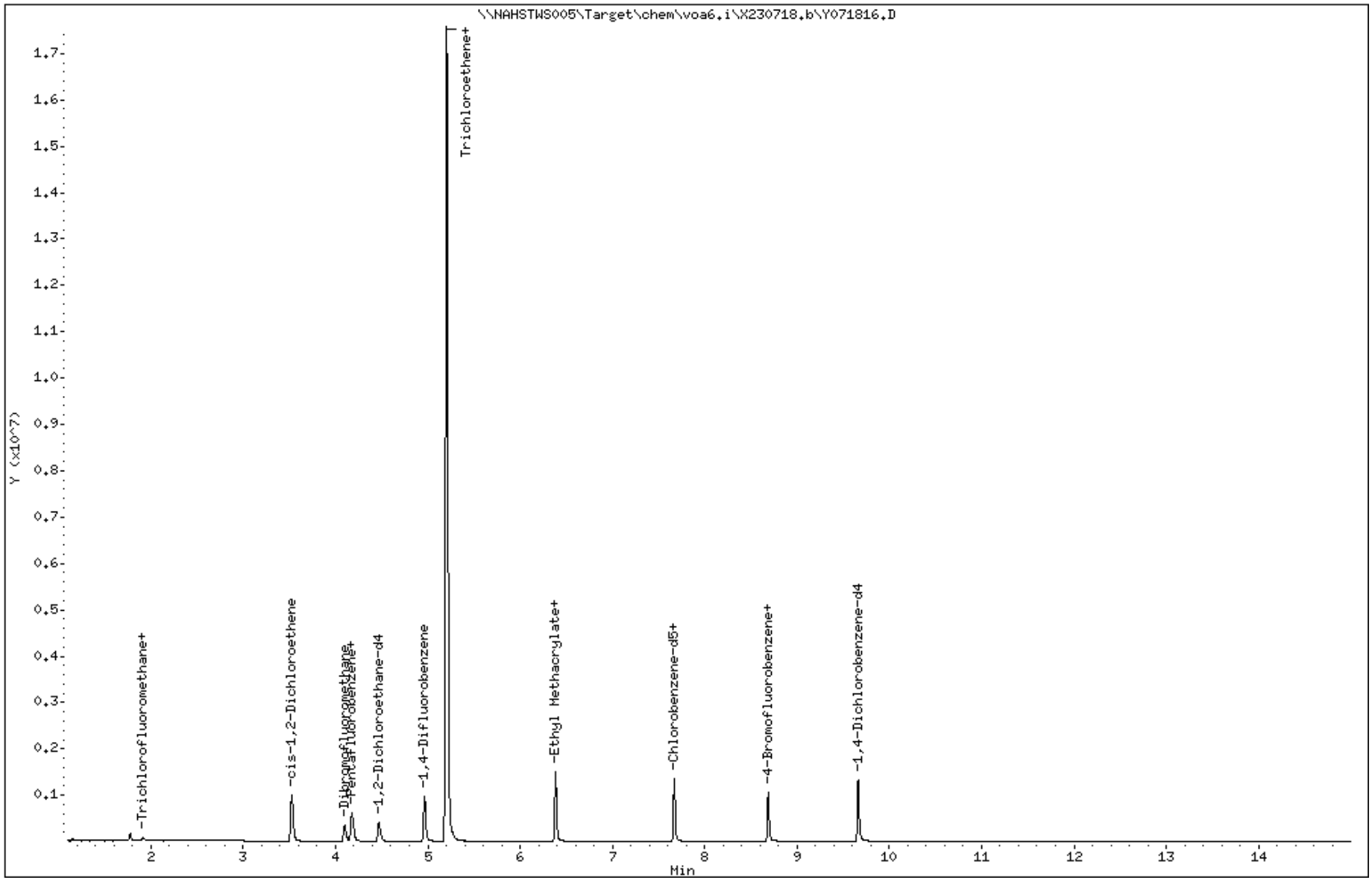
Sample Info: HS23070658-09;HS23070658-09;;;

Purge Volume: 5.0

Operator: PC

Column phase: DB624

Column diameter: 0.18



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230718.b\Y071816.D

Date : 19-JUL-2023 02:21

Client ID: HS23070658-09

Instrument: voa6.i

Sample Info: HS23070658-09;HS23070658-09;;;

Purge Volume: 5.0

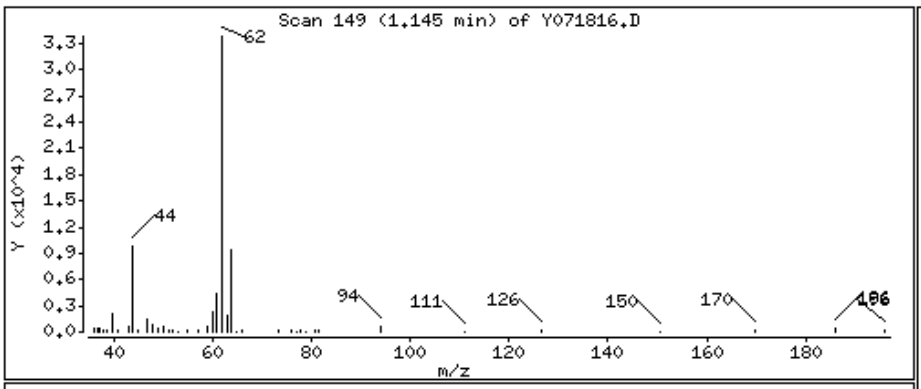
Operator: PC

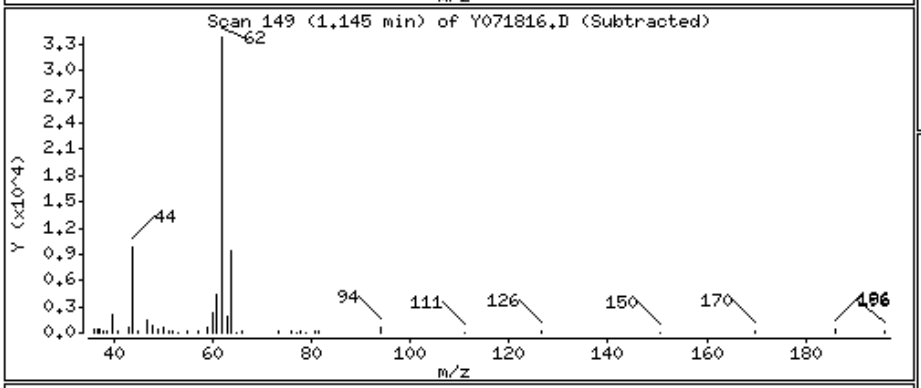
Column phase: DB624

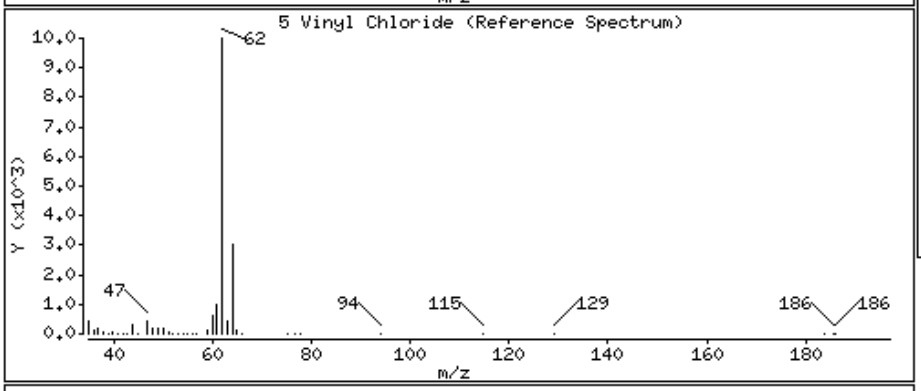
Column diameter: 0.18

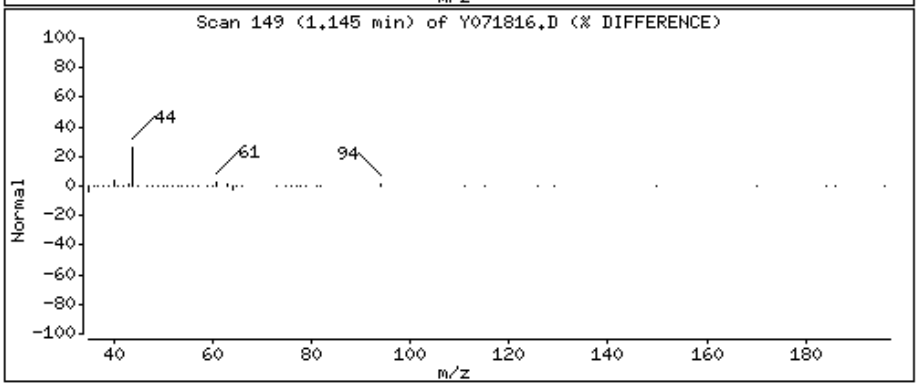
5 Vinyl Chloride

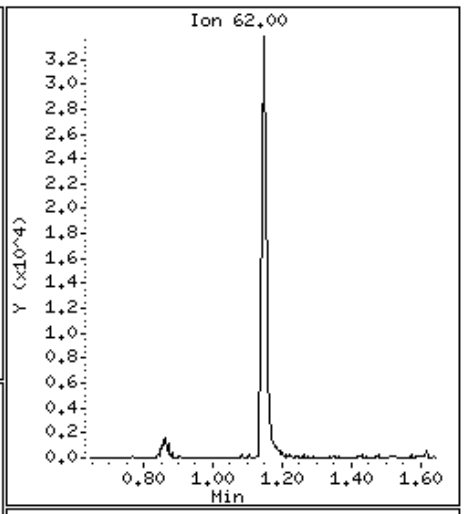
Concentration: 5.73 ug/l

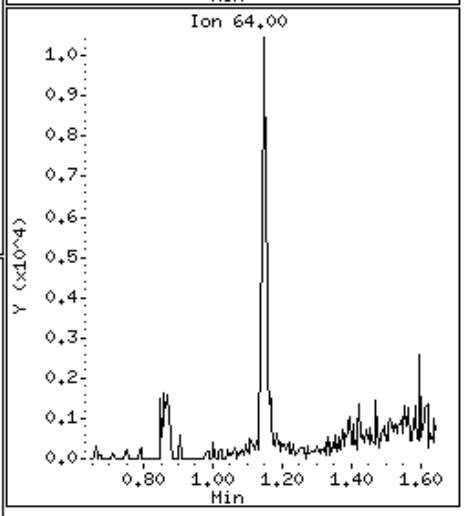












Data File: \\NAHSTWS005\Target\chem\voa6.i\X230718.b\Y071816.D

Date : 19-JUL-2023 02:21

Client ID: HS23070658-09

Instrument: voa6.i

Sample Info: HS23070658-09;HS23070658-09;;;

Purge Volume: 5.0

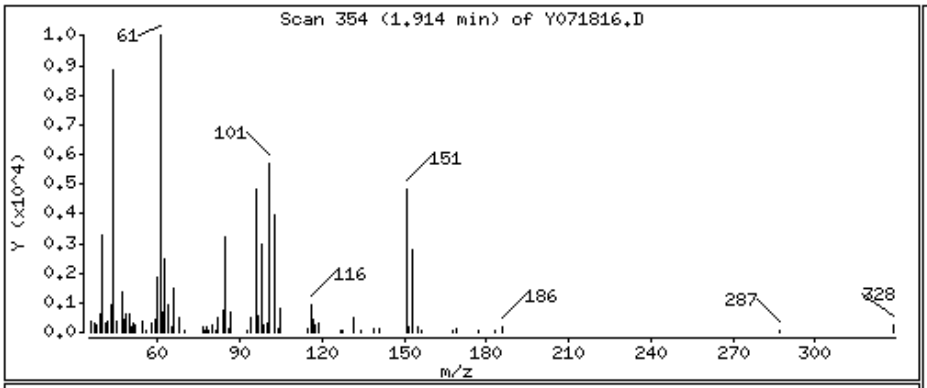
Operator: PC

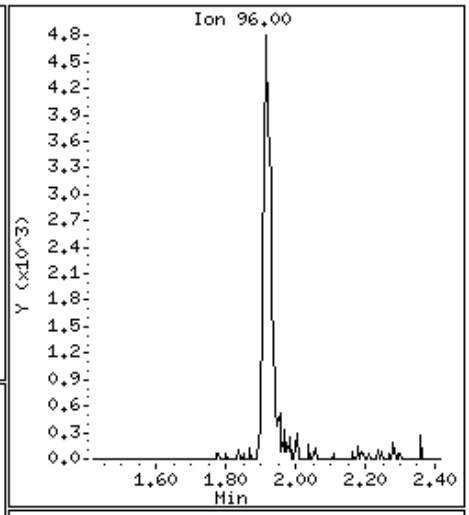
Column phase: DB624

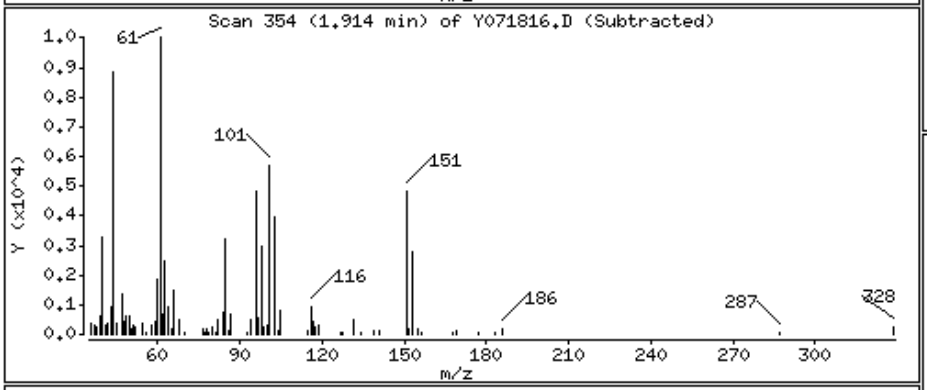
Column diameter: 0.18

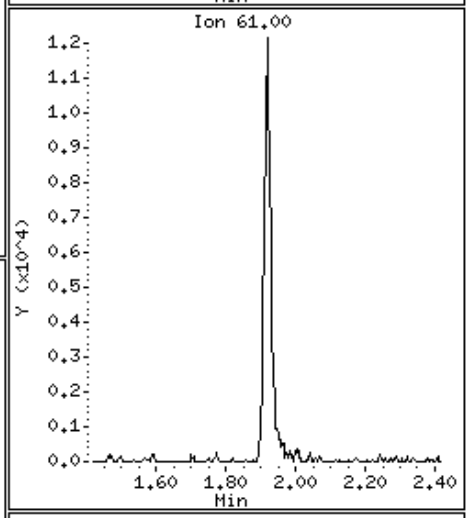
11 1,1-Dichloroethene

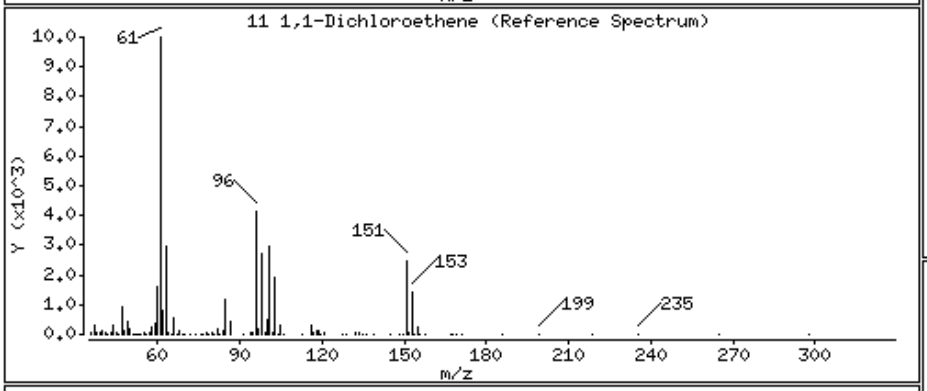
Concentration: 2.14 ug/l

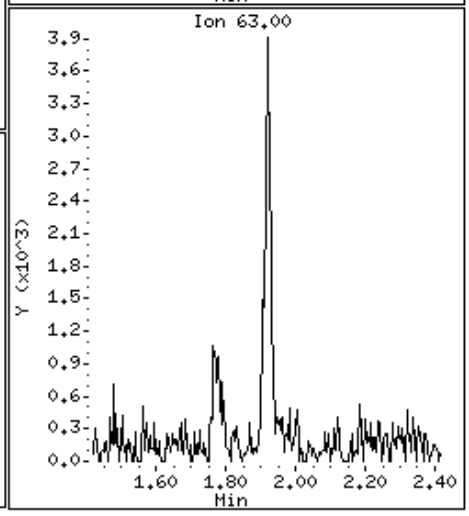


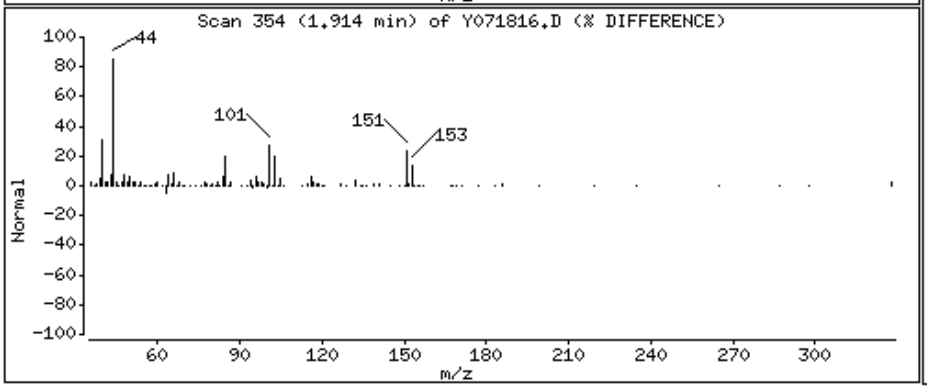












Data File: \\NAHSTWS005\Target\chem\voa6.i\X230718.b\Y071816.D

Date : 19-JUL-2023 02:21

Client ID: HS23070658-09

Instrument: voa6.i

Sample Info: HS23070658-09;HS23070658-09;;;

Purge Volume: 5.0

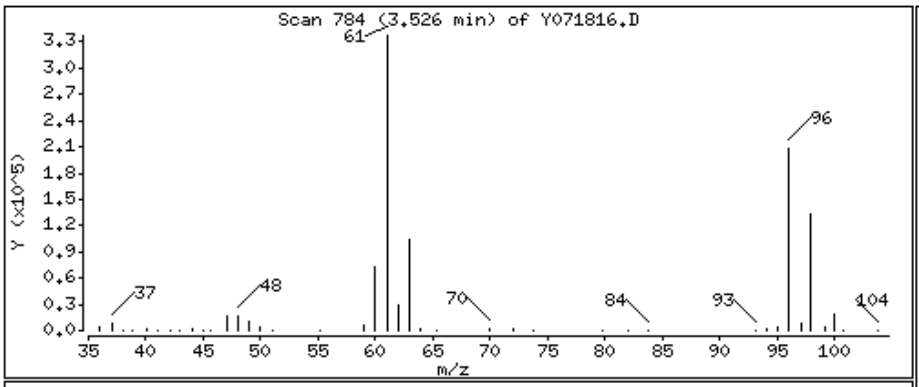
Operator: PC

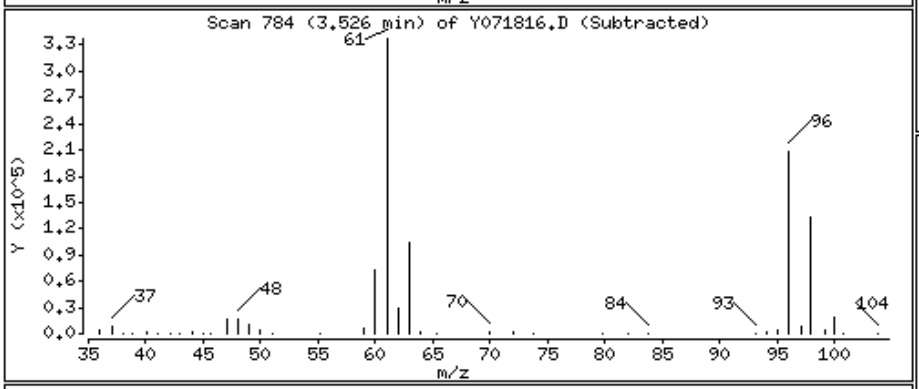
Column phase: DB624

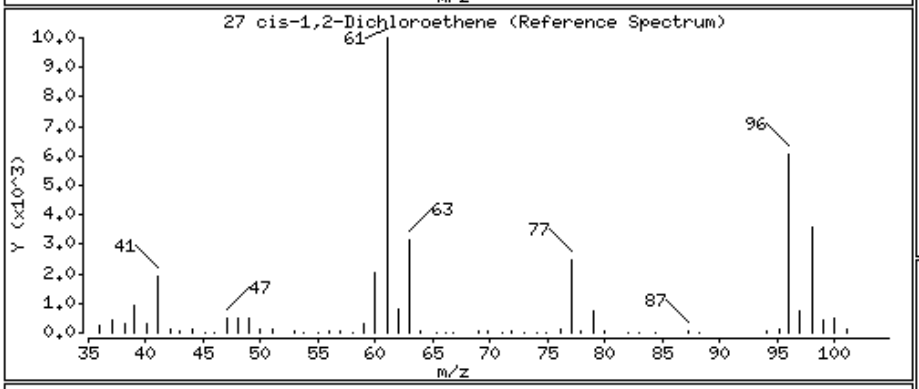
Column diameter: 0.18

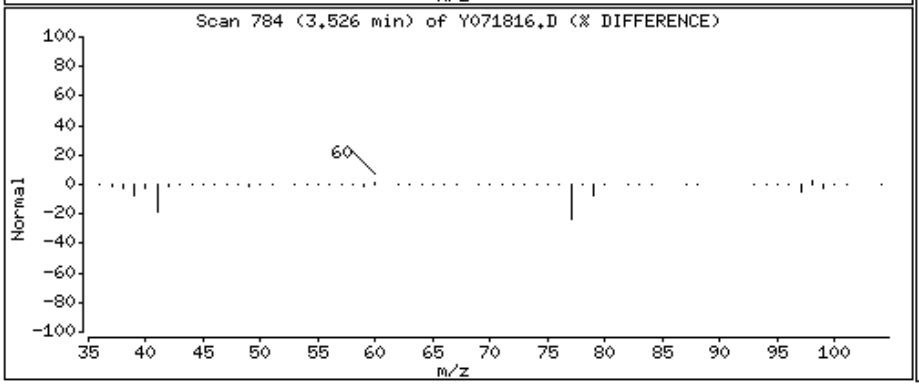
27 cis-1,2-Dichloroethene

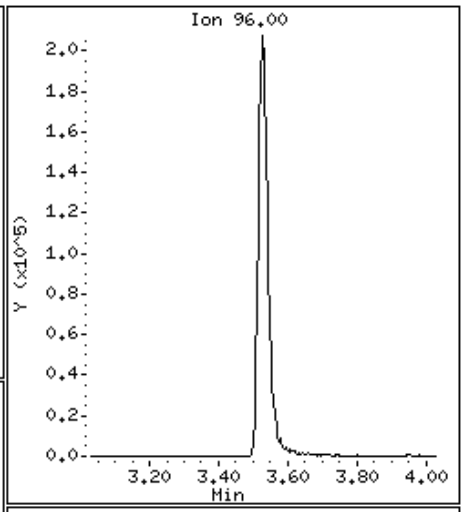
Concentration: 80.89 ug/l

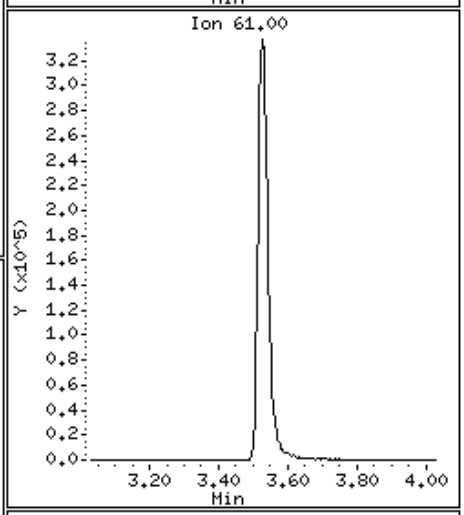


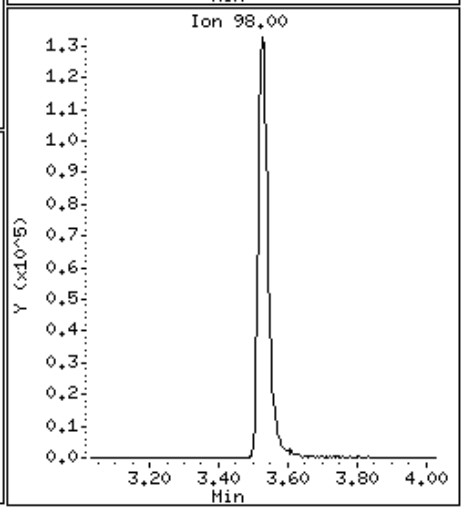












Data File: \\NAHSTWS005\Target\chem\voa6.i\X230718.b\Y071816.D Page 5

Date : 19-JUL-2023 02:21

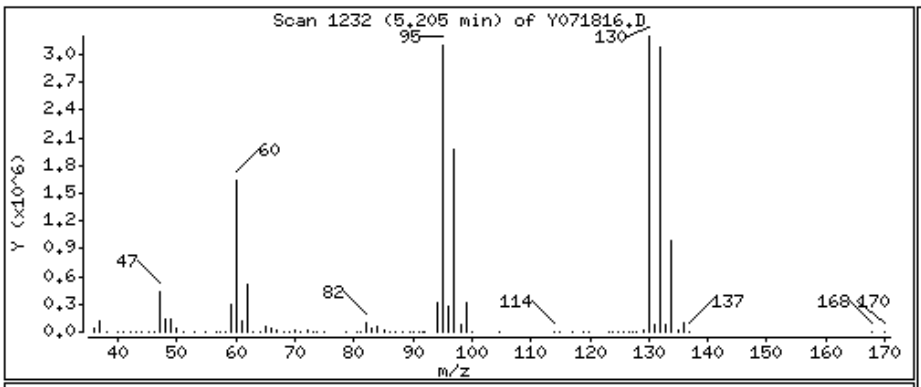
Client ID: HS23070658-09 Instrument: voa6.i

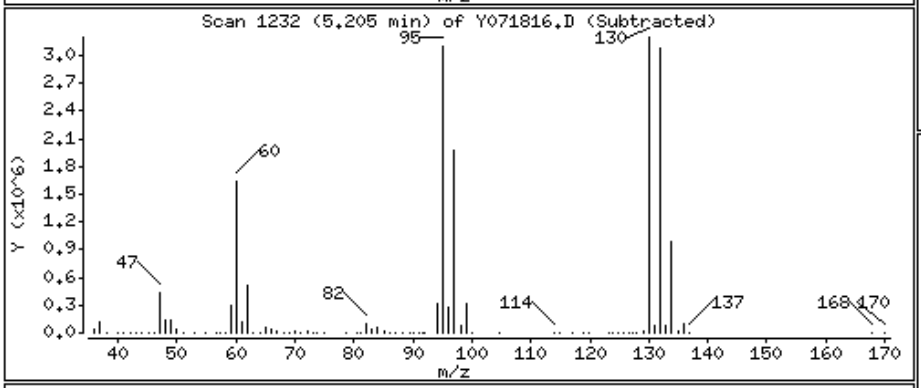
Sample Info: HS23070658-09;HS23070658-09;;;

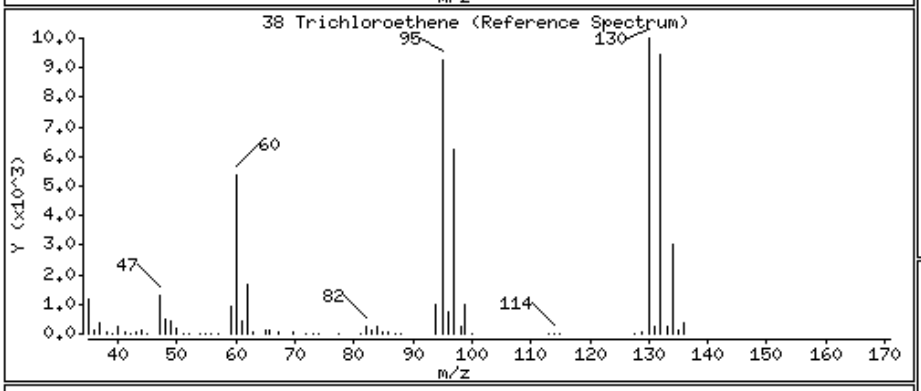
Purge Volume: 5.0 Operator: PC

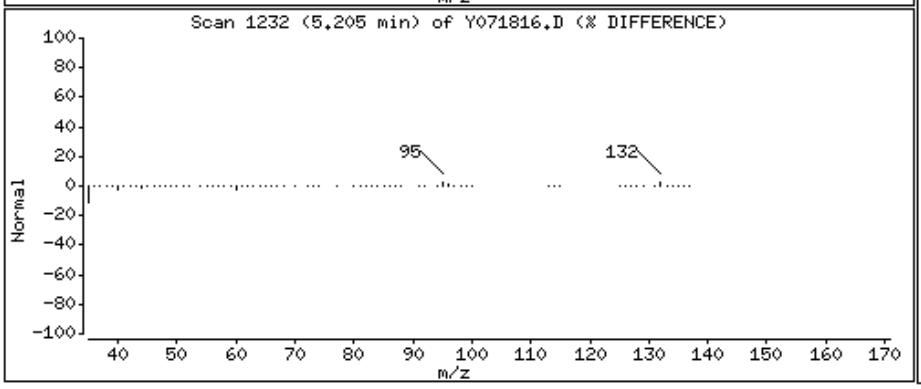
Column phase: DB624 Column diameter: 0.18

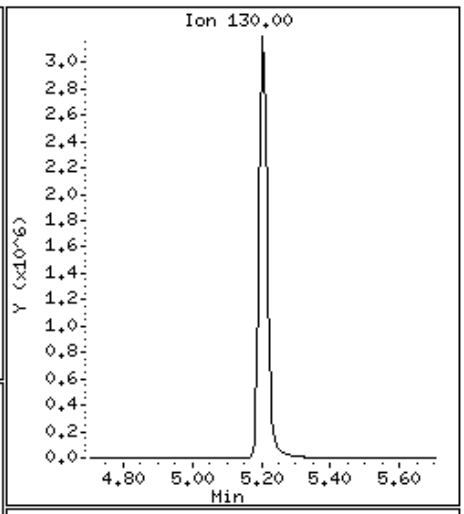
38 Trichloroethene Concentration: 1123.89 ug/l

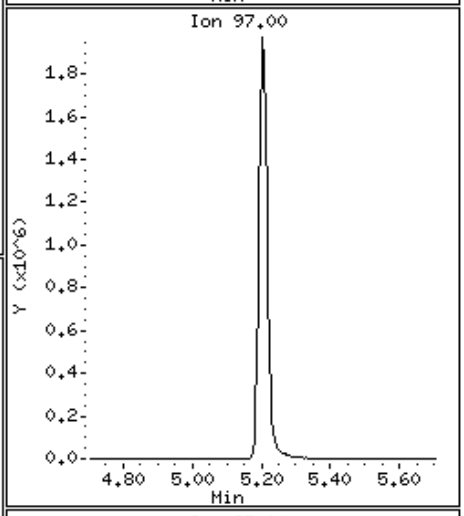


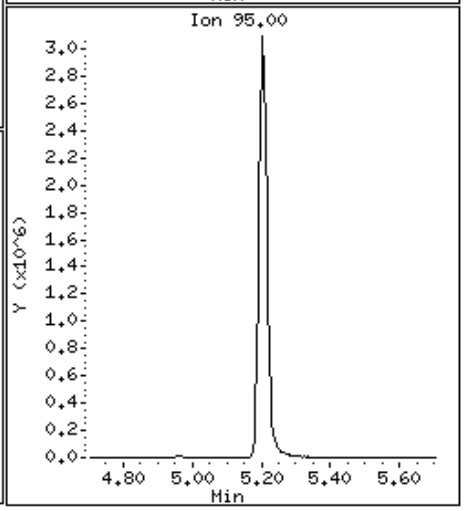












Data File : \\NAHSTWS005\Target\chem\voa6.i\X230718.b\Y071816.D
Inj Date : 19-JUL-2023 02:21
InstruID : voa6.i
LabSampID : HS23070658-09

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230718.b\Y071817.D Page 1
Report Date: 25-Jul-2023 12:40

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230718.b\Y071817.D
Lab Smp Id: HS23070658-10 Client Smp ID: HS23070658-10
Inj Date : 19-JUL-2023 02:41
Operator : PC Inst ID: voa6.i
Smp Info : HS23070658-10;HS23070658-10;;;
Misc Info : V6;WATER;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\voa6.i\X230718.b\8260W.m
Meth Date : 25-Jul-2023 12:39 voa6.i Quant Type: ISTD
Cal Date : 14-JUL-2023 14:24 Cal File: X071408.D
Als bottle: 46
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 0474-dod.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.181	4.178	(1.000)	476266	50.0000	
$ 30 Dibromofluoromethane	113	4.099	4.099	(0.980)	229262	52.5610	52.56
$ 35 1,2-Dichloroethane-d4	65	4.474	4.470	(1.070)	299398	54.9093	54.90
* 36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	716618	50.0000	
* 47 Chlorobenzene-d5	117	7.668	7.668	(1.000)	610620	50.0000	
$ 48 Toluene-d8	98	6.386	6.386	(0.833)	819578	52.1307	52.13
$ 69 4-Bromofluorobenzene	95	8.691	8.687	(1.133)	290960	47.8385	47.83
* 70 1,4-Dichlorobenzene-d4	152	9.662	9.658	(1.000)	301606	50.0000	
5 Vinyl Chloride	62	1.145	1.145	(0.274)	33833	5.48961	5.48
11 1,1-Dichloroethene	96	1.917	1.917	(0.459)	7245	2.07643	2.07(a)
27 cis-1,2-Dichloroethene	96	3.529	3.529	(0.844)	413610	80.4455	80.44
38 Trichloroethene	130	5.205	5.205	(1.048)	5490367	1132.40	1132.39(A)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
exceeded maximum amount.

01321167

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230718.b\Y071817.D

Date : 19-JUL-2023 02:41

Client ID: HS23070658-10

Instrument: voa6.i

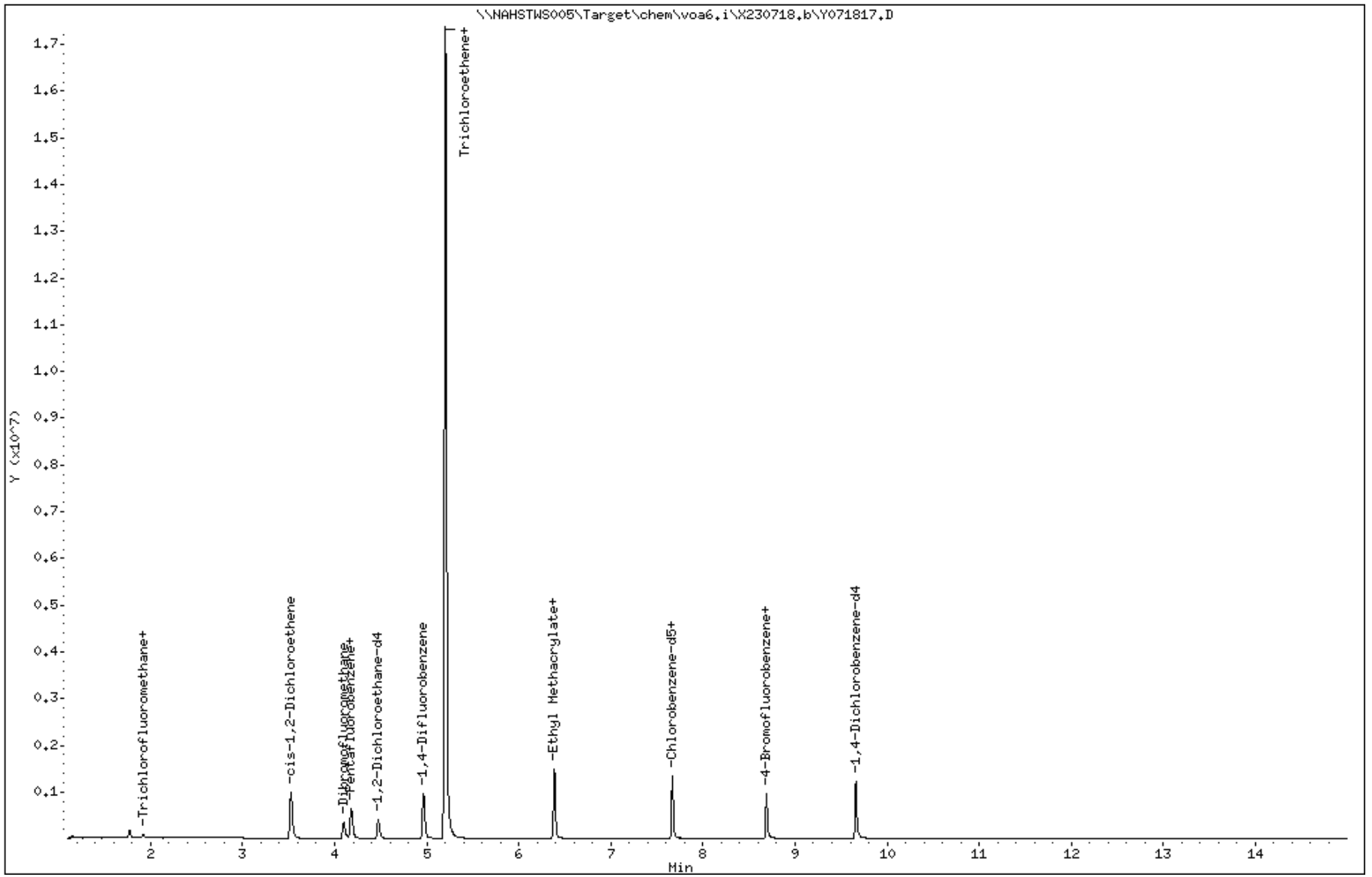
Sample Info: HS23070658-10;HS23070658-10;;;

Purge Volume: 5.0

Operator: PC

Column phase: DB624

Column diameter: 0.18



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230718.b\Y071817.D

Date : 19-JUL-2023 02:41

Client ID: HS23070658-10

Instrument: voa6.i

Sample Info: HS23070658-10;HS23070658-10;;;

Purge Volume: 5.0

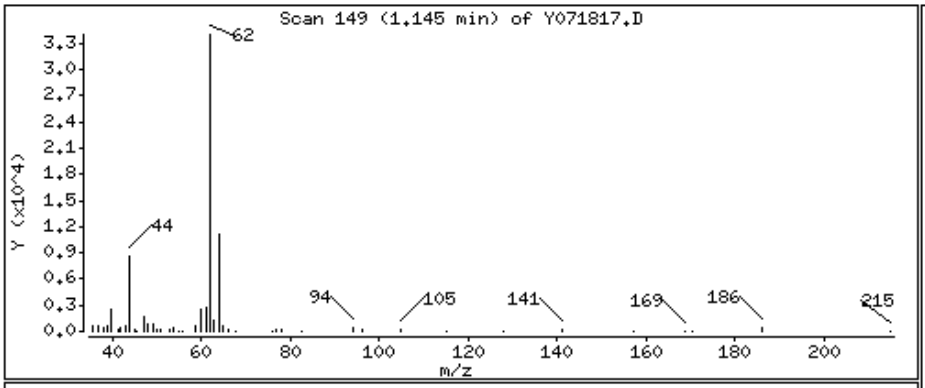
Operator: PC

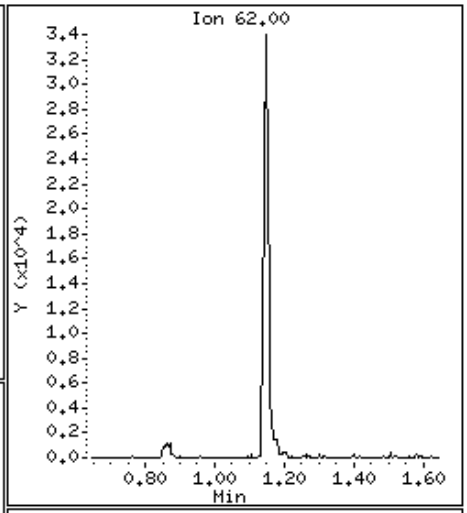
Column phase: DB624

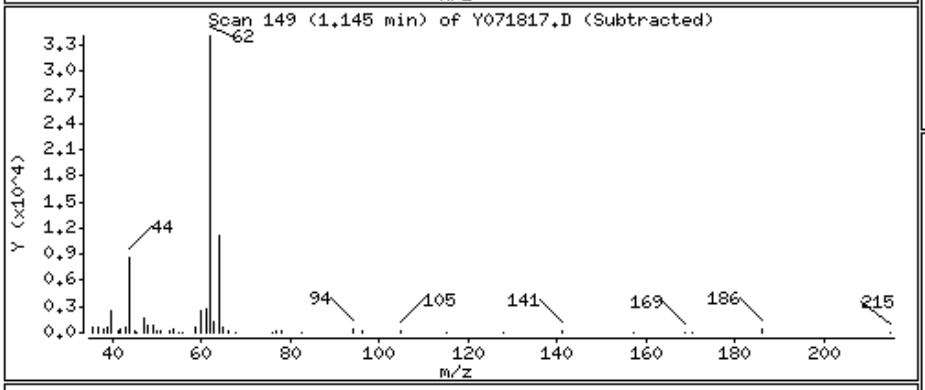
Column diameter: 0.18

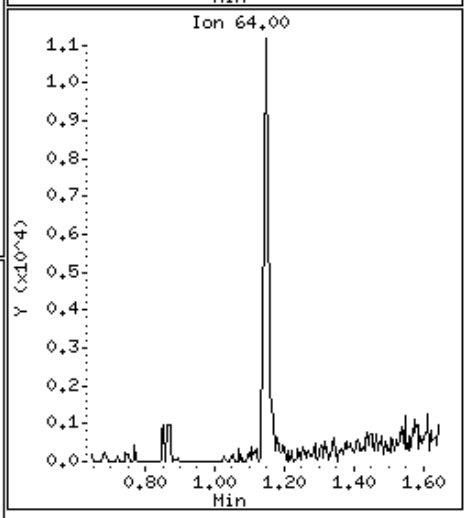
5 Vinyl Chloride

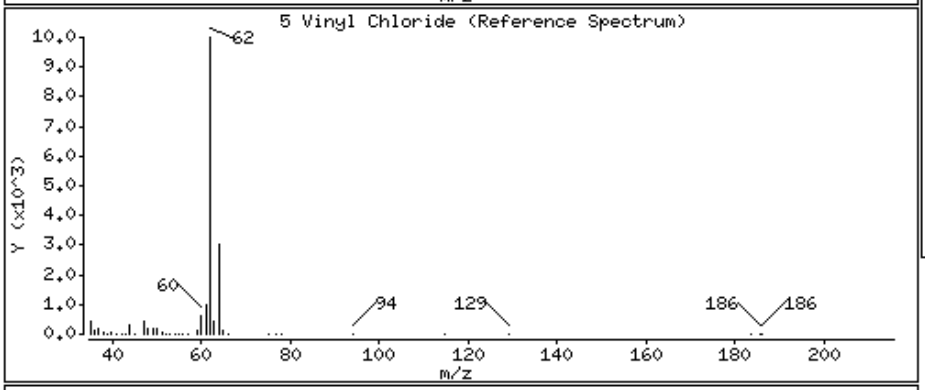
Concentration: 5.48 ug/l

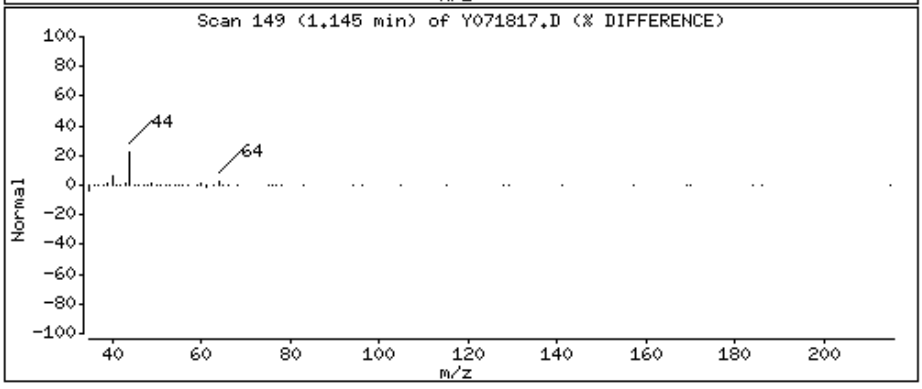












Data File: \\NAHSTWS005\Target\chem\voa6.i\X230718.b\Y071817.D

Date : 19-JUL-2023 02:41

Client ID: HS23070658-10

Instrument: voa6.i

Sample Info: HS23070658-10;HS23070658-10;;;

Purge Volume: 5.0

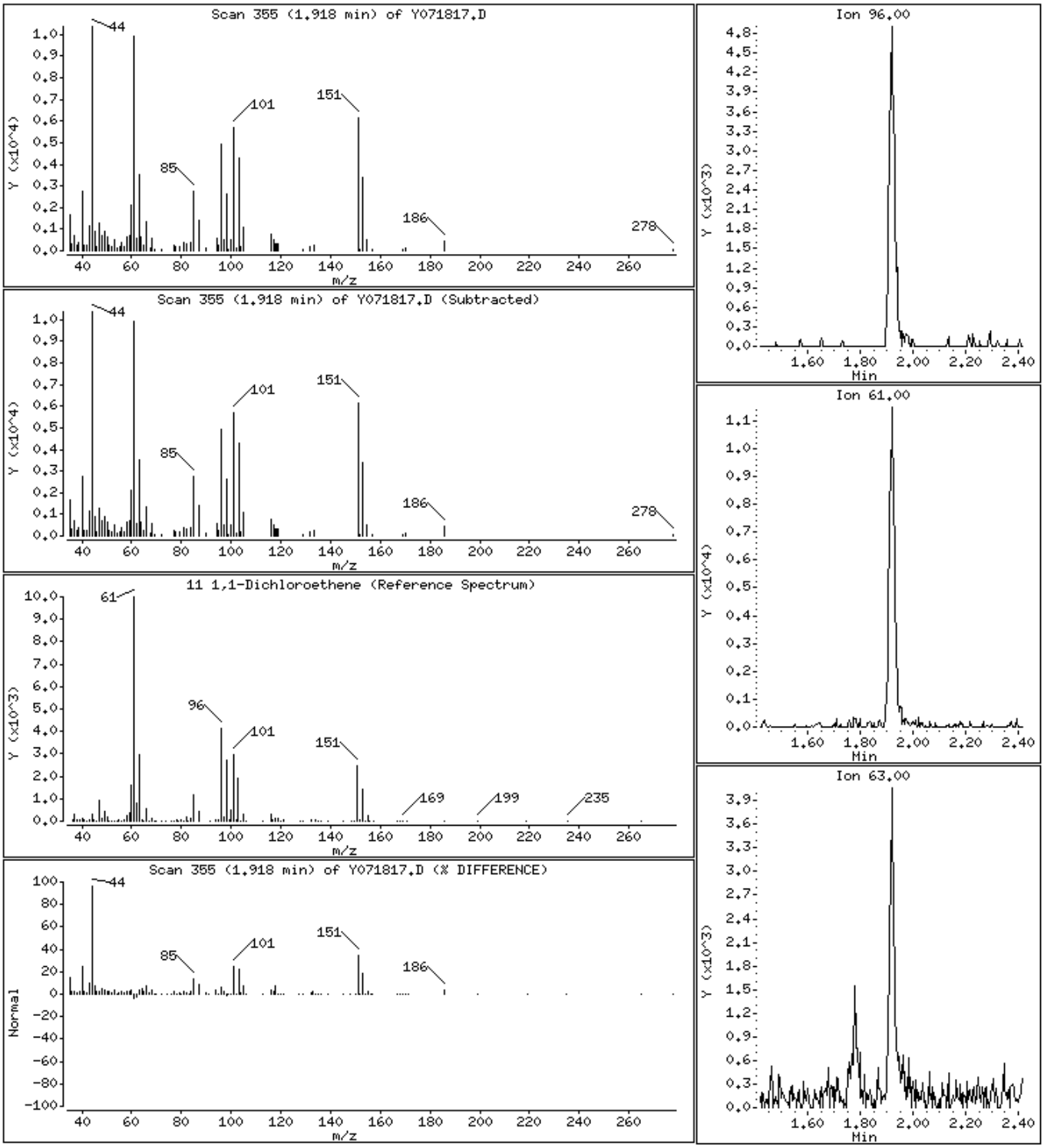
Operator: PC

Column phase: DB624

Column diameter: 0.18

11 1,1-Dichloroethene

Concentration: 2.07 ug/l



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Date : 19-JUL-2023 02:41

Client ID: HS23070658-10

Instrument: voa6.i

Sample Info: HS23070658-10;HS23070658-10;;;

Purge Volume: 5.0

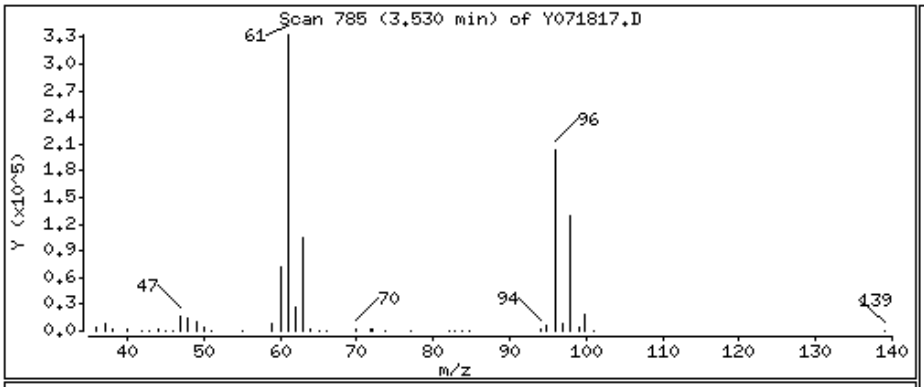
Operator: PC

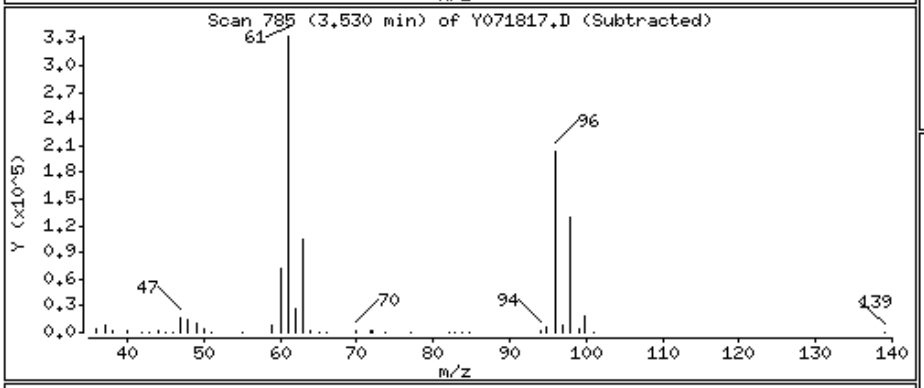
Column phase: DB624

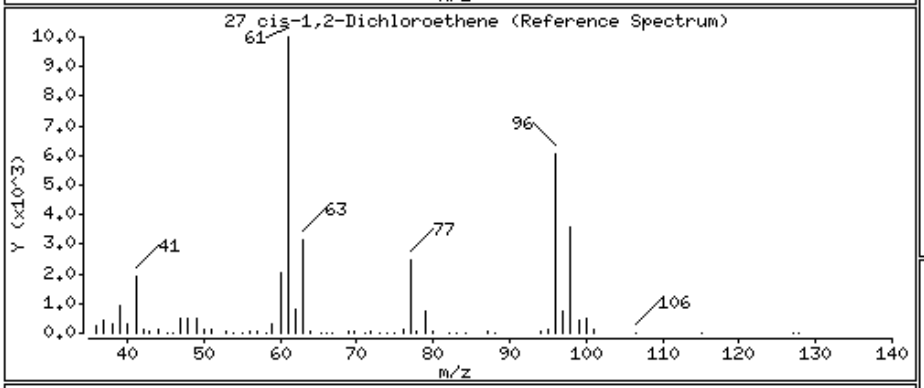
Column diameter: 0.18

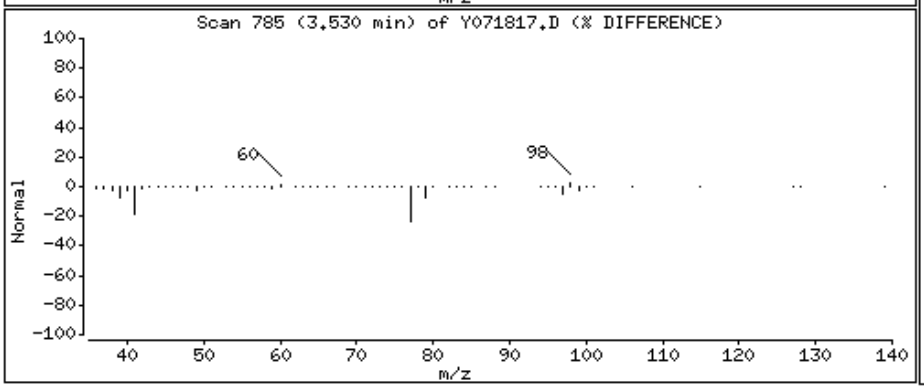
27 cis-1,2-Dichloroethene

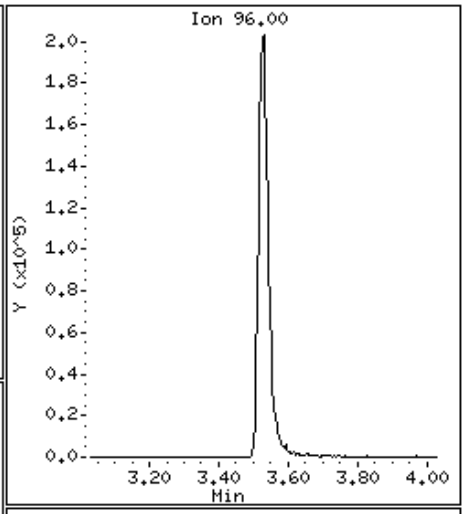
Concentration: 80.44 ug/l

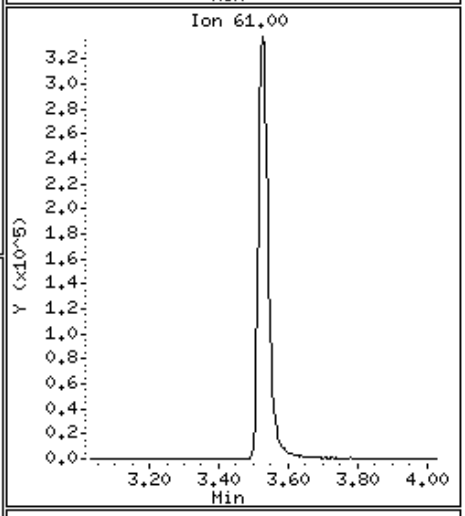


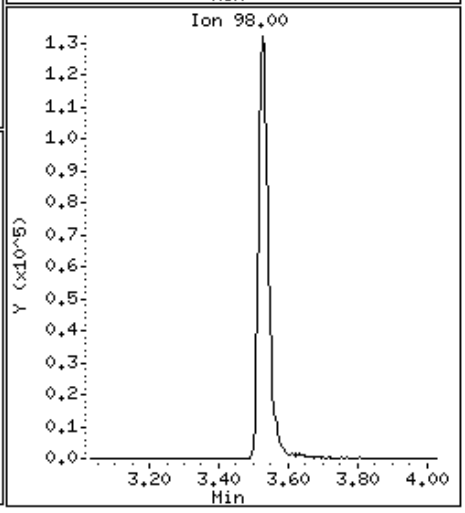












Data File: \\NAHSTWS005\Target\chem\voa6.i\X230718.b\Y071817.D

Date : 19-JUL-2023 02:41

Client ID: HS23070658-10

Instrument: voa6.i

Sample Info: HS23070658-10;HS23070658-10;;;

Purge Volume: 5.0

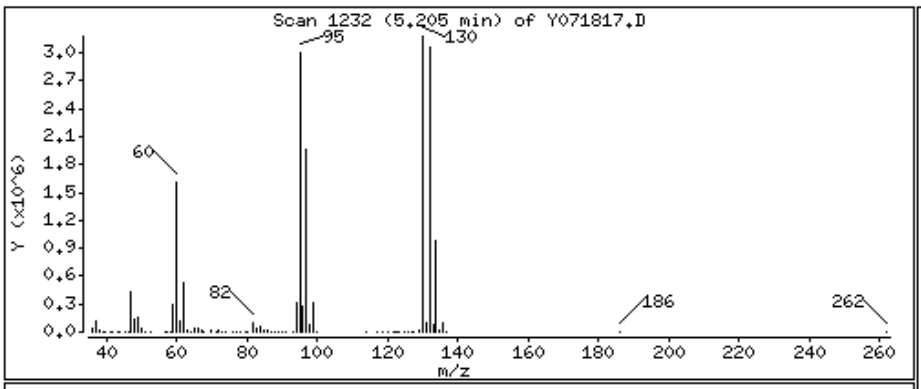
Operator: PC

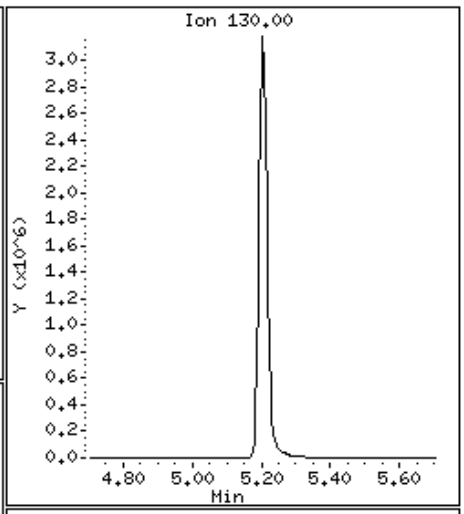
Column phase: DB624

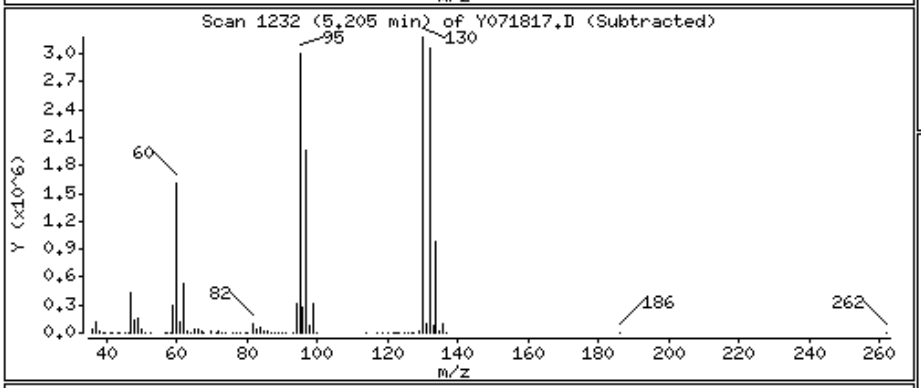
Column diameter: 0.18

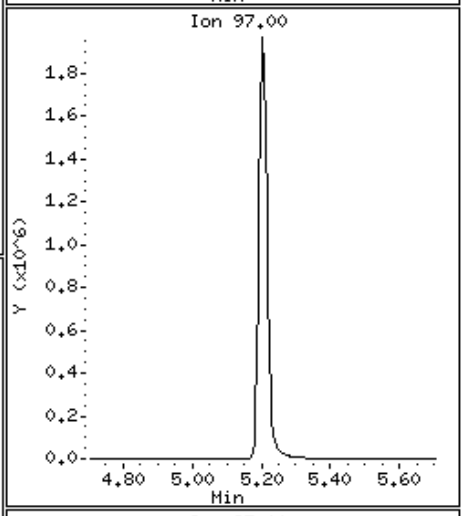
38 Trichloroethene

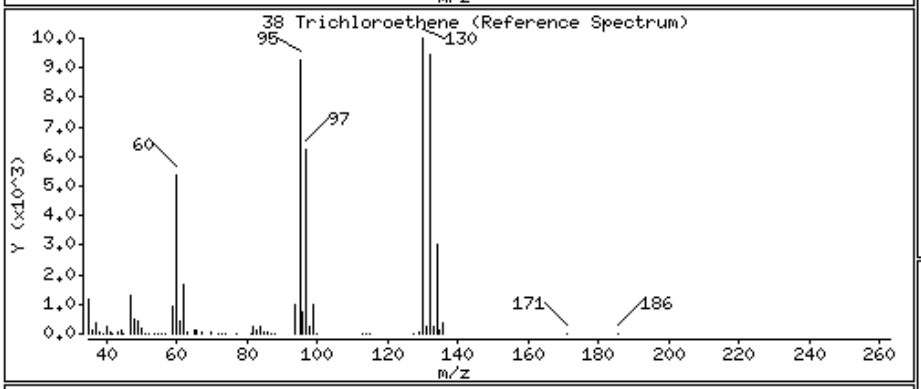
Concentration: 1132.39 ug/l

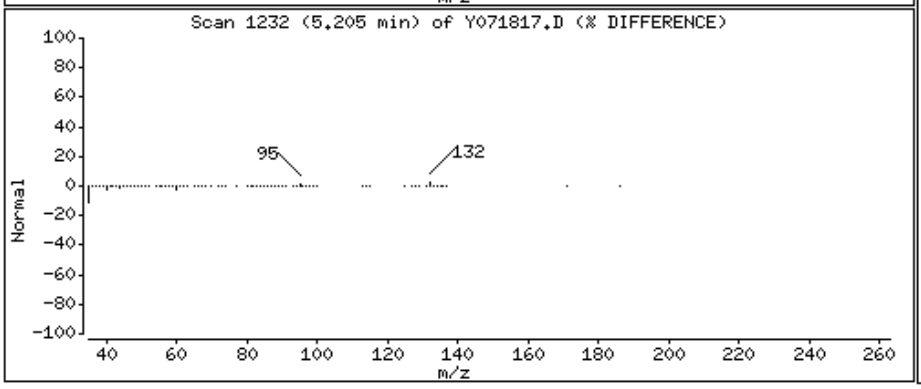


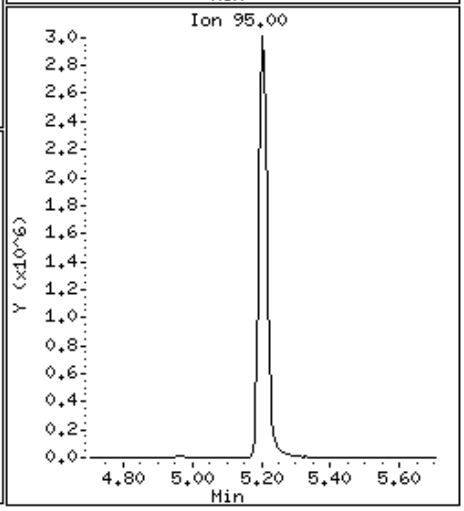












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Inj Date : 19-JUL-2023 02:41
InstruID : voa6.i
LabSampID : HS23070658-10

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230718.b\Y071818.D Page 1
Report Date: 25-Jul-2023 12:40

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230718.b\Y071818.D
Lab Smp Id: HS23070658-05MS Client Smp ID: HS23070658-05MS
Inj Date : 19-JUL-2023 03:02
Operator : PC Inst ID: voa6.i
Smp Info : HS23070658-05MS;HS23070658-05MS;3;;MS
Misc Info : V6;WATER;0;20;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230718.b\8260W.m
Meth Date : 25-Jul-2023 12:39 voa6.i Quant Type: ISTD
Cal Date : 14-JUL-2023 14:24 Cal File: X071408.D
Als bottle: 47 QC Sample: MS
Dil Factor: 20.00000
Integrator: HP RTE Compound Sublist: 8260_GB.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	20.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.181	4.178	(1.000)	469315	50.0000	
135 1,4-Dioxane	88	5.606	5.598	(1.341)	21666	388.494	7769.88(a)
140 1,3-Butadiene	54	1.167	1.167	(0.279)	138136	22.9062	458.12
25 Methacrylonitrile	41	3.829	3.829	(0.916)	132923	21.9425	438.85
12 Isobutyl Alcohol	43	4.680	4.676	(1.119)	385546	433.384	8667.68
13 Acetonitrile	39	2.198	2.198	(0.526)	181738	276.153	5523.05
14 Allyl Chloride	41	2.202	2.198	(0.527)	413697	26.8487	536.97
4 Propionitrile	54	3.660	3.657	(0.875)	188157	202.390	4047.79(a)
72 trans-1,4-Dichloro-2-butene	53	8.890	8.886	(1.159)	45091	23.7246	474.49
194 Acetaldehyde	44	1.212	1.212	(0.290)	64797	148.650	2972.99(M)
23 Chloroprene	53	1.775	1.775	(0.425)	60773	28.7997	575.99(M)
130 Ethyl Acetate	43	3.664	3.657	(0.876)	151763	21.7716	435.43
40 Methyl Methacrylate	41	5.610	5.606	(1.342)	117517	20.7466	414.93
49 Ethyl Methacrylate	69	6.712	6.712	(1.352)	90811	19.6143	392.28
131 Methyl Acrylate	55	3.694	3.694	(0.883)	123689	19.3885	387.77
2 Dichlorodifluoromethane	85	0.976	0.976	(0.234)	75525	16.4823	329.64
3 Chloromethane	50	1.081	1.081	(0.259)	117792	16.6172	332.34
5 Vinyl Chloride	62	1.145	1.145	(0.274)	330137	54.3601	1087.20
6 Bromomethane	94	1.340	1.340	(0.321)	49333	19.6294	392.58
7 Chloroethane	64	1.407	1.407	(0.337)	74179	21.3960	427.92

8	Trichlorofluoromethane	101	1.565	1.561 (0.374)	162426	26.3908	527.81
9	Acrolein	56	1.865	1.861 (0.446)	11602	65.6763	1313.52

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230718.b\Y071818.D Page 2
Report Date: 25-Jul-2023 12:40

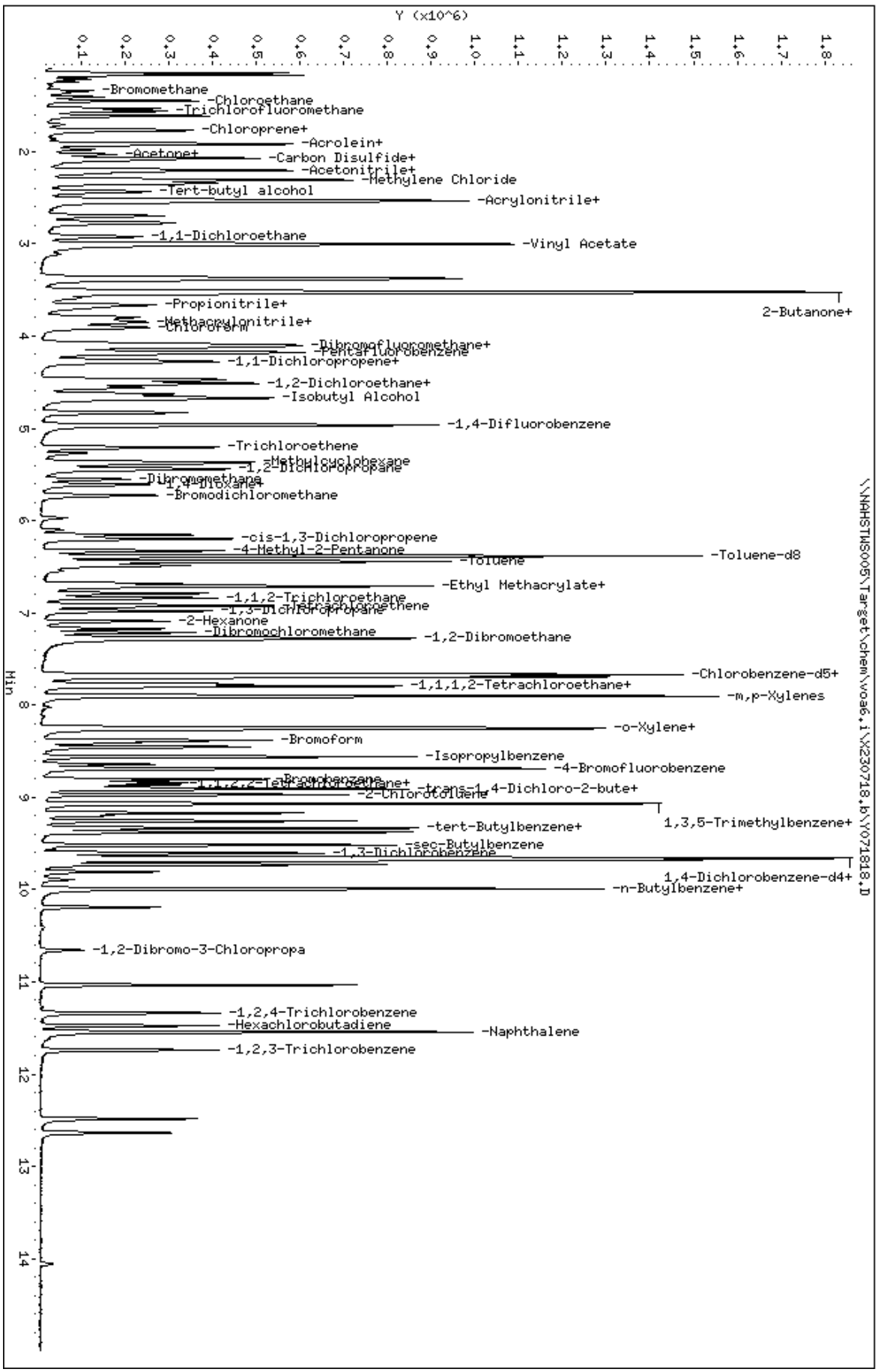
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
10	Acetone	43	1.977	1.973	(0.473)	93541	47.9497	958.99
11	1,1-Dichloroethene	96	1.917	1.917	(0.459)	85834	24.9645	499.28
15	Iodomethane	142	2.030	2.030	(0.485)	150343	36.2769	725.53
16	Acrylonitrile	53	2.536	2.536	(0.606)	114533	50.0804	1001.60
17	Methylene Chloride	84	2.307	2.303	(0.552)	96870	23.1389	462.77
18	Methyl tert-butyl ether	73	2.539	2.539	(0.607)	309053	24.1687	483.37
19	Carbon Disulfide	76	2.071	2.071	(0.495)	504986	46.7245	934.48
20	trans-1,2-Dichloroethene	96	2.532	2.532	(0.606)	90644	22.7916	455.83
21	Vinyl Acetate	43	3.001	3.001	(0.718)	782094	47.5495	950.98
22	1,1-Dichloroethane	63	2.926	2.918	(0.700)	209008	23.9484	478.96
24	2-Butanone	43	3.589	3.585	(0.858)	87090	34.8460	696.92
26	2,2-Dichloropropane	77	3.510	3.507	(0.840)	132829	19.7326	394.65
27	cis-1,2-Dichloroethene	96	3.522	3.529	(0.842)	713799	140.887	2817.74
28	Chloroform	83	3.911	3.904	(0.935)	189437	21.2135	424.27
29	Bromochloromethane	128	3.795	3.795	(0.908)	57562	20.2729	405.45
$ 30	Dibromofluoromethane	113	4.099	4.099	(0.980)	233696	54.3973	54.39
31	1,1,1-Trichloroethane	97	4.084	4.080	(0.977)	162176	23.5918	471.83
32	1,1-Dichloropropene	75	4.279	4.279	(0.862)	138341	23.9912	479.82
33	1,2-Dichloroethane	62	4.556	4.556	(0.918)	173270	22.2655	445.31
34	Carbon Tetrachloride	117	4.260	4.260	(0.858)	142273	24.4907	489.81
$ 35	1,2-Dichloroethane-d4	65	4.470	4.470	(1.069)	293422	54.6069	54.60
* 36	1,4-Difluorobenzene	114	4.965	4.965	(1.000)	706937	50.0000	
37	Benzene	78	4.511	4.511	(0.909)	384664	22.7484	454.96
38	Trichloroethene	130	5.205	5.205	(1.048)	128989	26.9685	539.37
39	Bromodichloromethane	83	5.726	5.726	(1.153)	143650	22.1787	443.57
42	1,2-Dichloropropane	63	5.437	5.437	(1.095)	125876	23.1503	463.00
44	Dibromomethane	93	5.553	5.553	(1.119)	66387	21.5693	431.38
45	4-Methyl-2-Pentanone	43	6.326	6.326	(0.825)	265561	43.1843	863.68
46	cis-1,3-Dichloropropene	75	6.153	6.153	(1.239)	152439	20.4912	409.82
* 47	Chlorobenzene-d5	117	7.668	7.668	(1.000)	624916	50.0000	
$ 48	Toluene-d8	98	6.386	6.386	(0.833)	825847	51.3278	51.32
50	Toluene	91	6.442	6.446	(0.840)	409177	24.3242	486.48
51	trans-1,3-Dichloropropene	75	6.682	6.682	(1.346)	129315	20.6210	412.41
52	2-Hexanone	43	7.090	7.087	(0.925)	173961	43.0640	861.27
53	1,1,2-Trichloroethane	83	6.843	6.839	(0.892)	78834	22.0918	441.83
54	1,3-Dichloropropane	76	6.982	6.978	(0.911)	169076	23.1918	463.83
55	Dibromochloromethane	129	7.173	7.173	(0.935)	119165	23.1316	462.63
56	Tetrachloroethene	164	6.925	6.925	(0.903)	87010	25.0366	500.73
57	1,2-Dibromoethane	107	7.259	7.259	(0.947)	96515	23.6684	473.36
58	1-Chlorohexane	55	7.694	7.694	(1.550)	144925	25.5181	510.36
59	Chlorobenzene	112	7.690	7.694	(1.003)	269147	22.8887	457.77
60	1,1,1,2-Tetrachloroethane	131	7.773	7.773	(1.014)	105969	23.0193	460.38
61	Ethylbenzene	106	7.795	7.795	(1.017)	138977	23.5691	471.38
62	m,p-Xylenes	106	7.904	7.900	(1.031)	354260	47.8893	957.78
63	o-Xylene	106	8.237	8.237	(1.074)	171324	24.4566	489.13
64	Styrene	104	8.260	8.256	(1.077)	293812	24.0451	480.90
66	Bromoform	173	8.410	8.410	(1.097)	72339	21.8859	437.71
67	Isopropylbenzene	105	8.560	8.556	(1.116)	453184	25.1678	503.35
68	1,1,2,2-Tetrachloroethane	83	8.837	8.837	(0.915)	119978	21.3332	426.66
$ 69	4-Bromofluorobenzene	95	8.687	8.687	(1.133)	303184	48.7157	48.71
* 70	1,4-Dichlorobenzene-d4	152	9.662	9.658	(1.000)	334831	50.0000	
71	1,2,3-Trichloropropane	75	8.863	8.863	(0.917)	99444	22.2826	445.65(M)

73 n-Propylbenzene	91	8.908	8.908 (0.922)	511929	25.3009	506.01
74 Bromobenzene	156	8.803	8.803 (0.911)	121064	23.1186	462.37

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
75	1,3,5-Trimethylbenzene	105	9.066	9.066	(0.938)	355186	23.4326	468.65
76	2-Chlorotoluene	91	8.972	8.972	(0.929)	319197	23.3859	467.71
77	4-Chlorotoluene	91	9.070	9.070	(0.939)	357263	23.8197	476.39
78	tert-Butylbenzene	119	9.332	9.336	(0.966)	330563	25.4302	508.60
79	1,2,4-Trimethylbenzene	105	9.377	9.377	(0.971)	357228	23.5014	470.02
81	sec-Butylbenzene	105	9.519	9.519	(0.985)	452719	26.1287	522.57
82	p-Isopropyltoluene	119	9.647	9.647	(0.998)	385660	24.3665	487.32
83	1,3-Dichlorobenzene	146	9.602	9.602	(0.994)	213562	23.4102	468.20
84	1,4-Dichlorobenzene	146	9.681	9.681	(1.002)	220529	22.0481	440.96
87	n-Butylbenzene	91	9.992	9.992	(1.034)	327442	24.7017	494.03
88	1,2-Dichlorobenzene	146	9.992	9.992	(1.034)	214456	23.9116	478.23
89	1,2-Dibromo-3-Chloropropane	155	10.655	10.651	(1.103)	18888	21.0750	421.49
90	1,2,4-Trichlorobenzene	180	11.338	11.334	(1.173)	121273	19.6874	393.74
91	Hexachlorobutadiene	225	11.476	11.476	(1.188)	63329	23.6149	472.29
92	Naphthalene	128	11.544	11.540	(1.195)	299566	19.6484	392.96
93	1,2,3-Trichlorobenzene	180	11.739	11.739	(1.215)	116362	20.1987	403.97
M 94	1,2-Dichloroethylene (total)	96				804443	163.679	3273.57
M 95	Xylenes (total)	106				525584	72.3459	1446.91
141	Cyclohexane	56	4.121	4.118	(0.986)	210615	25.8902	517.80
138	Freon TF	101	1.917	1.917	(0.459)	84750	30.7933	615.86
147	Methylcyclohexane	55	5.385	5.381	(1.085)	356073	23.8631	477.26
146	Methyl Acetate	43	2.232	2.232	(0.534)	118457	28.3607	567.21
148	Tert-Butyl alcohol	59	2.435	2.434	(0.582)	261122	440.832	8816.63
149	Isopropyl Alcohol	45	2.097	2.097	(0.502)	171885	467.652	9353.03

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.



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Operator: PC
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1,2,3-Trichloropropane (96-18-4)

Reason Code:

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25-Jul-2023
12:39
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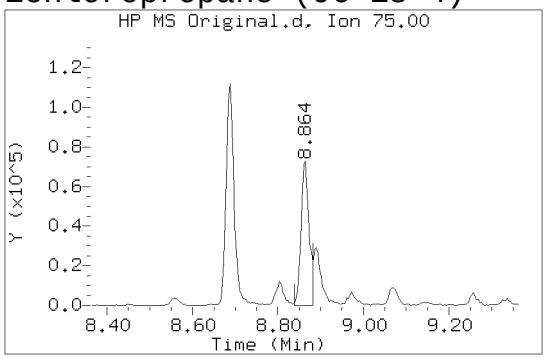

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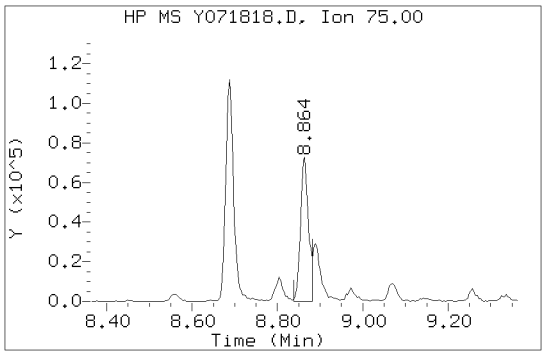

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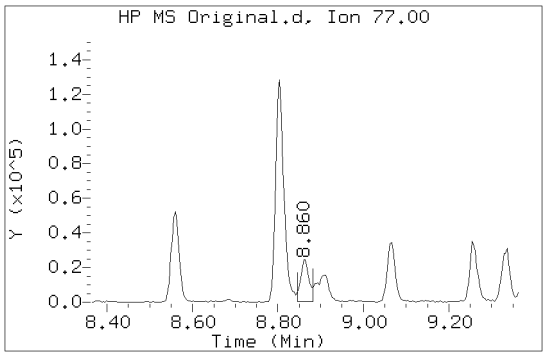

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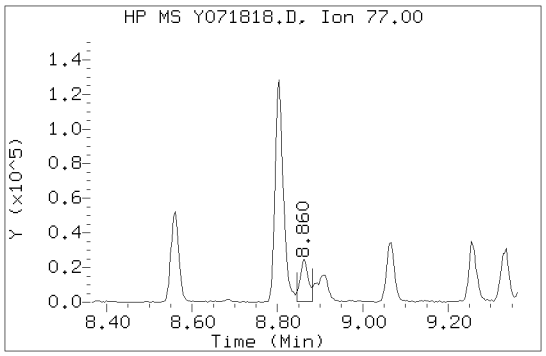

Chloroprene (126-99-8)

Reason Code:

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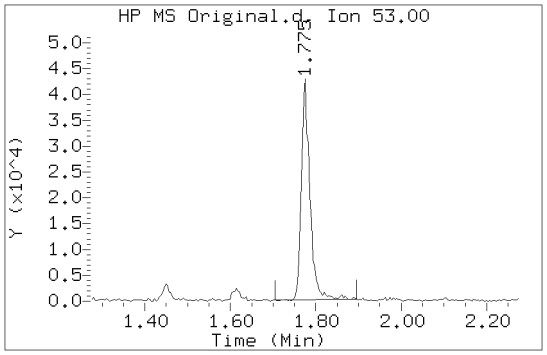

AFTER

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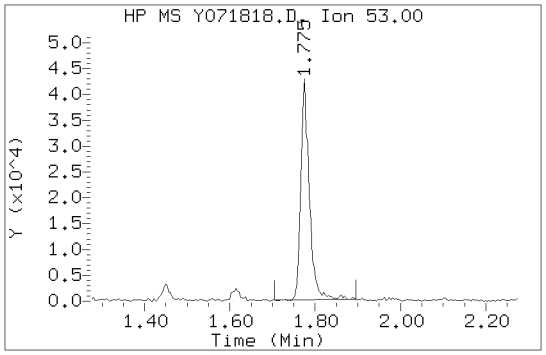

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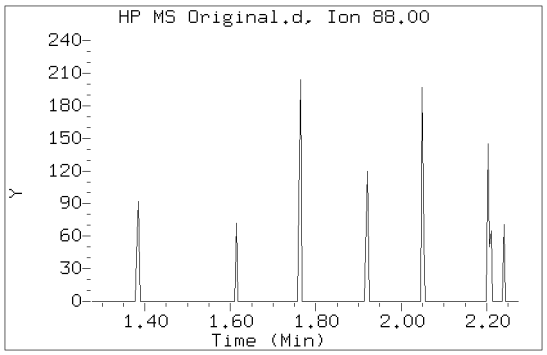

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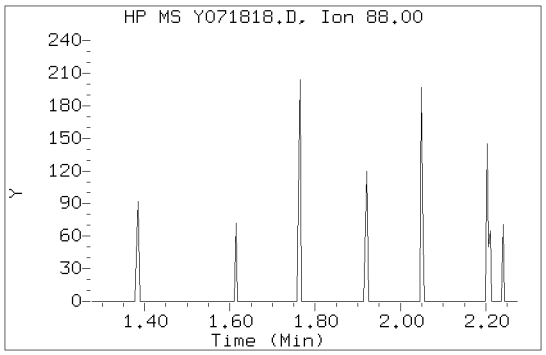

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LabSampID : HS23070658-05MS

Acetaldehyde (75-07-0)

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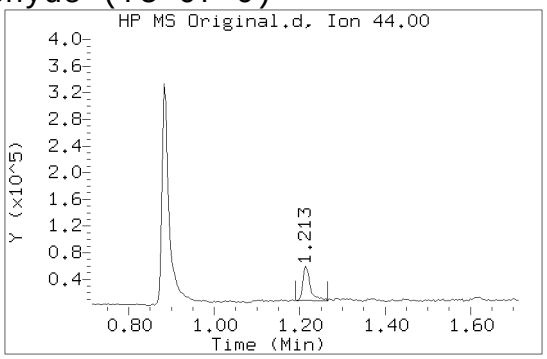

AFTER
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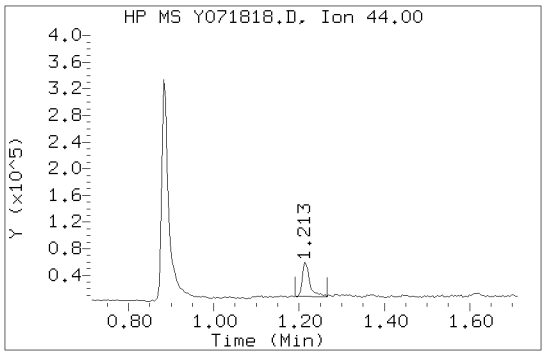

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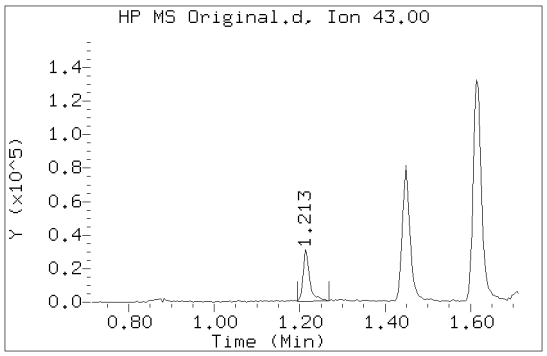

AFTER
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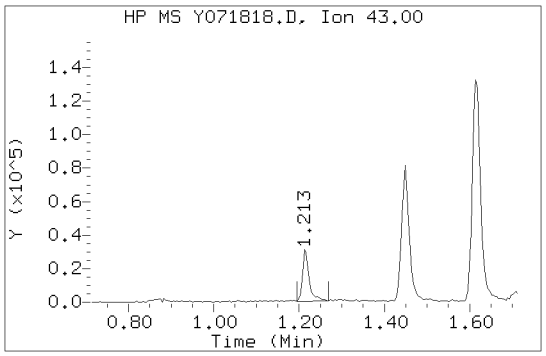

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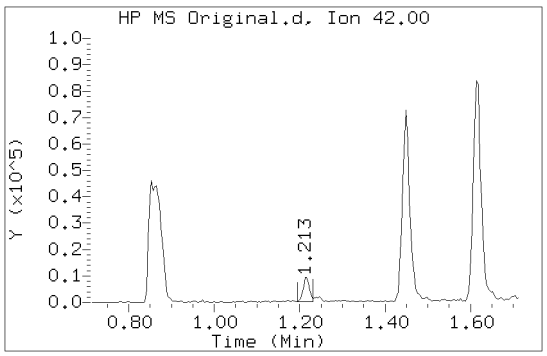

AFTER
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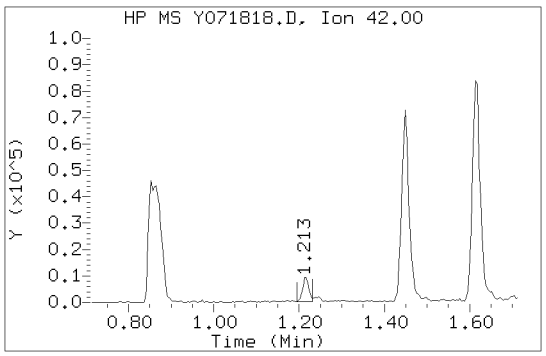

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Report Date: 25-Jul-2023 12:40

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230718.b\Y071819.D
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Inj Date : 19-JUL-2023 03:22
Operator : PC Inst ID: voa6.i
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Misc Info : V6;WATER;0;20;
Comment   :
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Cal Date : 14-JUL-2023 14:24 Cal File: X071408.D
Als bottle: 47 QC Sample: MSD
Dil Factor: 20.00000
Integrator: HP RTE Compound Sublist: 8260_GB.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	20.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.177	4.178	(1.000)	476645	50.0000	
135 1,4-Dioxane	88	5.602	5.598	(1.341)	22701	400.793	8015.86(a)
140 1,3-Butadiene	54	1.167	1.167	(0.280)	134551	21.9686	439.37
25 Methacrylonitrile	41	3.836	3.829	(0.918)	127106	20.6596	413.19
12 Isobutyl Alcohol	43	4.680	4.676	(1.120)	378478	418.897	8377.93
13 Acetonitrile	39	2.202	2.198	(0.527)	170696	255.385	5107.70
14 Allyl Chloride	41	2.198	2.198	(0.526)	397908	25.4269	508.53
4 Propionitrile	54	3.660	3.657	(0.876)	185675	196.649	3932.97(a)
72 trans-1,4-Dichloro-2-butene	53	8.890	8.886	(1.159)	42236	21.9732	439.46
194 Acetaldehyde	44	1.212	1.212	(0.290)	55539	121.916	2438.31(M)
23 Chloroprene	53	1.775	1.775	(0.425)	53698	25.0556	501.11(M)
130 Ethyl Acetate	43	3.664	3.657	(0.877)	148839	21.0238	420.47
40 Methyl Methacrylate	41	5.609	5.606	(1.343)	115105	20.0083	400.16
49 Ethyl Methacrylate	69	6.712	6.712	(1.352)	86681	18.7029	374.05
131 Methyl Acrylate	55	3.698	3.694	(0.885)	130958	20.2123	404.24
2 Dichlorodifluoromethane	85	0.976	0.976	(0.234)	71591	15.4565	309.12
3 Chloromethane	50	1.081	1.081	(0.259)	127271	17.6783	353.56
5 Vinyl Chloride	62	1.145	1.145	(0.274)	308310	49.9854	999.70
6 Bromomethane	94	1.340	1.340	(0.321)	46575	18.2470	364.94
7 Chloroethane	64	1.407	1.407	(0.337)	72546	20.6032	412.06

8	Trichlorofluoromethane	101	1.561	1.561 (0.374)	153215	24.5114	490.22
9	Acrolein	56	1.861	1.861 (0.446)	11313	63.1005	1262.01

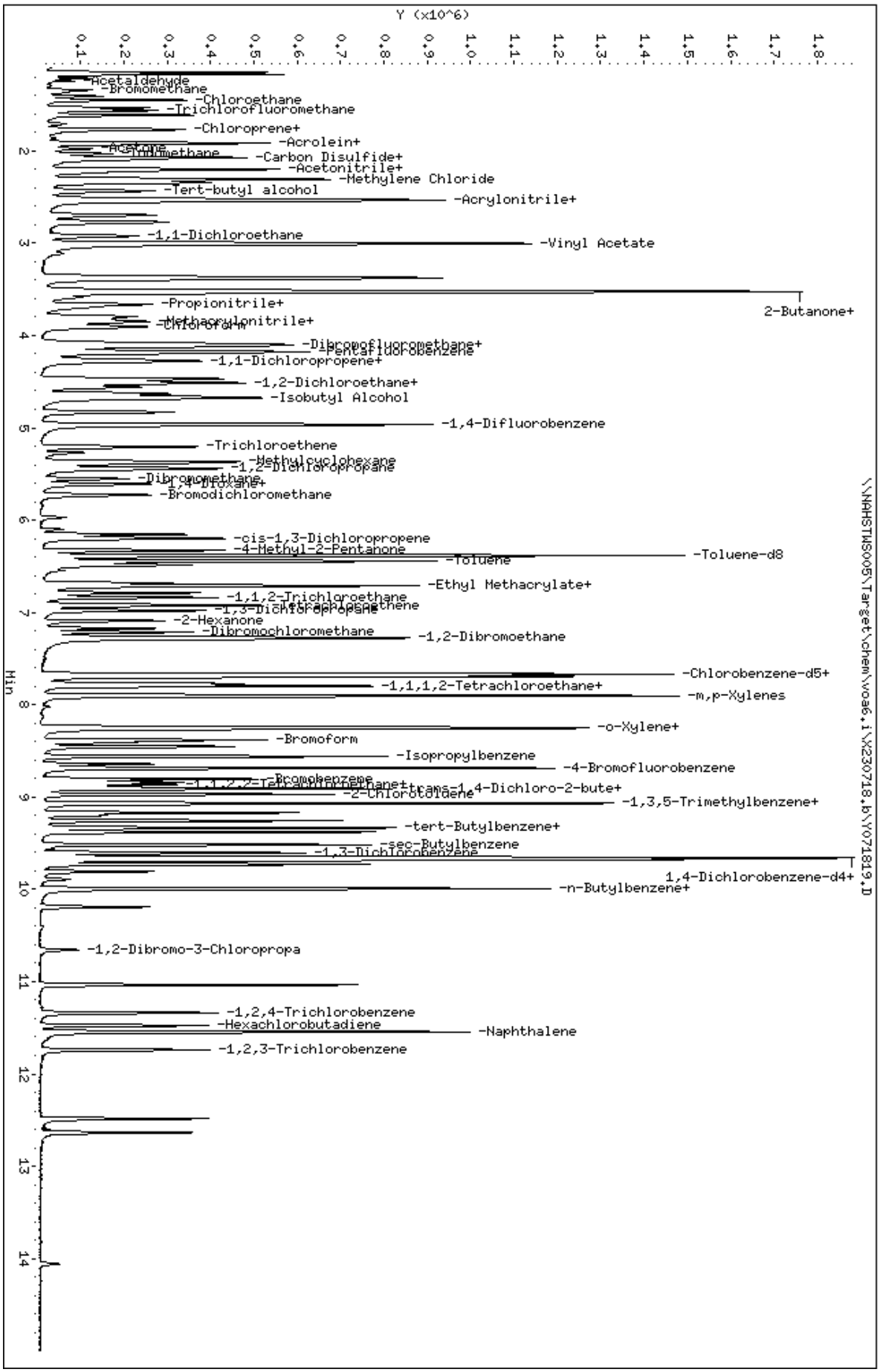
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
	10 Acetone	43	1.973	1.973	(0.472)	90879	45.6565	913.13
	11 1,1-Dichloroethene	96	1.917	1.917	(0.459)	76766	21.9837	439.67
	15 Iodomethane	142	2.030	2.030	(0.486)	138420	33.2663	665.32
	16 Acrylonitrile	53	2.536	2.536	(0.607)	114516	49.3029	986.05
	17 Methylene Chloride	84	2.303	2.303	(0.551)	93556	21.9344	438.68
	18 Methyl tert-butyl ether	73	2.539	2.539	(0.608)	296764	22.8508	457.01
	19 Carbon Disulfide	76	2.074	2.071	(0.497)	462448	42.1306	842.61
	20 trans-1,2-Dichloroethene	96	2.528	2.532	(0.605)	83626	20.7036	414.07
	21 Vinyl Acetate	43	3.004	3.001	(0.719)	840617	50.3216	1006.43
	22 1,1-Dichloroethane	63	2.922	2.918	(0.699)	200428	22.6121	452.24
	24 2-Butanone	43	3.585	3.585	(0.858)	87206	34.3559	687.11
	26 2,2-Dichloropropane	77	3.506	3.507	(0.839)	124635	18.2464	364.92
	27 cis-1,2-Dichloroethene	96	3.525	3.529	(0.844)	670210	130.249	2604.98
	28 Chloroform	83	3.908	3.904	(0.935)	184304	20.3213	406.42
	29 Bromochloromethane	128	3.799	3.795	(0.909)	57639	19.9879	399.75
$	30 Dibromofluoromethane	113	4.099	4.099	(0.981)	228590	52.3624	52.36
	31 1,1,1-Trichloroethane	97	4.080	4.080	(0.977)	158184	22.6572	453.14
	32 1,1-Dichloropropene	75	4.279	4.279	(0.862)	129649	22.4606	449.21
	33 1,2-Dichloroethane	62	4.560	4.556	(0.918)	169312	21.7344	434.68
	34 Carbon Tetrachloride	117	4.260	4.260	(0.858)	135406	23.2845	465.68
$	35 1,2-Dichloroethane-d4	65	4.474	4.470	(1.071)	292081	53.5090	53.50
*	36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	707670	50.0000	
	37 Benzene	78	4.511	4.511	(0.909)	372872	22.0282	440.56
	38 Trichloroethene	130	5.205	5.205	(1.048)	115001	24.0191	480.38
	39 Bromodichloromethane	83	5.726	5.726	(1.153)	137922	21.2723	425.44
	42 1,2-Dichloropropane	63	5.437	5.437	(1.095)	121811	22.3795	447.59
	44 Dibromomethane	93	5.553	5.553	(1.119)	63920	20.7463	414.92
	45 4-Methyl-2-Pentanone	43	6.325	6.326	(0.825)	256688	41.2733	825.46
	46 cis-1,3-Dichloropropene	75	6.157	6.153	(1.240)	152678	20.5021	410.04
*	47 Chlorobenzene-d5	117	7.667	7.668	(1.000)	632004	50.0000	
$	48 Toluene-d8	98	6.385	6.386	(0.833)	822089	50.5212	50.52
	50 Toluene	91	6.445	6.446	(0.841)	387845	22.7975	455.94
	51 trans-1,3-Dichloropropene	75	6.685	6.682	(1.347)	125513	19.9940	399.87
	52 2-Hexanone	43	7.086	7.087	(0.924)	171860	42.0667	841.33
	53 1,1,2-Trichloroethane	83	6.839	6.839	(0.892)	79431	22.0094	440.18
	54 1,3-Dichloropropane	76	6.978	6.978	(0.910)	157952	21.4229	428.45
	55 Dibromochloromethane	129	7.173	7.173	(0.935)	115020	22.0766	441.53
	56 Tetrachloroethene	164	6.925	6.925	(0.903)	85337	24.2798	485.59
	57 1,2-Dibromoethane	107	7.259	7.259	(0.947)	91931	22.2914	445.82
	58 1-Chlorohexane	55	7.694	7.694	(1.550)	131983	23.2152	464.30
	59 Chlorobenzene	112	7.690	7.694	(1.003)	258236	21.7146	434.29
	60 1,1,1,2-Tetrachloroethane	131	7.772	7.773	(1.014)	103395	22.2082	444.16
	61 Ethylbenzene	106	7.795	7.795	(1.017)	136229	22.8439	456.87
	62 m,p-Xylenes	106	7.900	7.900	(1.030)	335818	44.8872	897.74
	63 o-Xylene	106	8.241	8.237	(1.075)	164490	23.2177	464.35
	64 Styrene	104	8.260	8.256	(1.077)	273444	22.1272	442.54
	66 Bromoform	173	8.410	8.410	(1.097)	71898	21.5086	430.17
	67 Isopropylbenzene	105	8.560	8.556	(1.116)	420115	23.0696	461.39
	68 1,1,2,2-Tetrachloroethane	83	8.837	8.837	(0.915)	121746	20.9042	418.08
$	69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	311189	49.4476	49.44
*	70 1,4-Dichlorobenzene-d4	152	9.662	9.658	(1.000)	346737	50.0000	
	71 1,2,3-Trichloropropane	75	8.863	8.863	(0.917)	92557	20.0273	400.54(M)

73 n-Propylbenzene	91	8.912	8.908 (0.922)	485546	23.1730	463.46
74 Bromobenzene	156	8.803	8.803 (0.911)	118039	21.7670	435.33

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
75	1,3,5-Trimethylbenzene	105	9.066	9.066	(0.938)	335290	21.3605	427.20
76	2-Chlorotoluene	91	8.972	8.972	(0.929)	303263	21.4556	429.11
77	4-Chlorotoluene	91	9.069	9.070	(0.939)	343612	22.1229	442.45
78	tert-Butylbenzene	119	9.332	9.336	(0.966)	313457	23.2863	465.72
79	1,2,4-Trimethylbenzene	105	9.377	9.377	(0.971)	340613	21.6389	432.77
81	sec-Butylbenzene	105	9.519	9.519	(0.985)	431376	24.0420	480.83
82	p-Isopropyltoluene	119	9.647	9.647	(0.998)	368901	22.5073	450.14
83	1,3-Dichlorobenzene	146	9.606	9.602	(0.994)	206322	21.8400	436.80
84	1,4-Dichlorobenzene	146	9.680	9.681	(1.002)	207302	20.0140	400.28
87	n-Butylbenzene	91	9.992	9.992	(1.034)	316539	23.0593	461.18
88	1,2-Dichlorobenzene	146	9.992	9.992	(1.034)	202747	21.8299	436.59
89	1,2-Dibromo-3-Chloropropane	155	10.659	10.651	(1.103)	19072	20.5767	411.53
90	1,2,4-Trichlorobenzene	180	11.334	11.334	(1.173)	119574	18.7450	374.90
91	Hexachlorobutadiene	225	11.476	11.476	(1.188)	62554	22.6337	452.67
92	Naphthalene	128	11.544	11.540	(1.195)	300807	19.0523	381.04
93	1,2,3-Trichlorobenzene	180	11.738	11.739	(1.215)	112792	18.9067	378.13
M 94	1,2-Dichloroethylene (total)	96				753836	150.953	3019.06
M 95	Xylenes (total)	106				500308	68.1049	1362.09
141	Cyclohexane	56	4.118	4.118	(0.986)	209880	25.4031	508.06
138	Freon TF	101	1.917	1.917	(0.459)	78401	28.1917	563.83
147	Methylcyclohexane	55	5.385	5.381	(1.085)	347956	23.2950	465.89
146	Methyl Acetate	43	2.232	2.232	(0.534)	112466	26.5123	530.24
148	Tert-Butyl alcohol	59	2.434	2.434	(0.583)	259541	431.425	8628.49
149	Isopropyl Alcohol	45	2.097	2.097	(0.502)	182881	489.917	9798.34

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.



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Purge Volume: 5.0
Column phase: DB624

Instrument: voa6.i
Operator: PC
Column diameter: 0.18

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Inj Date : 19-JUL-2023 03:22
InstruID : voa6.i
LabSampID : HS23070658-05MSD

1,2,3-Trichloropropane (96-18-4)

Reason Code:

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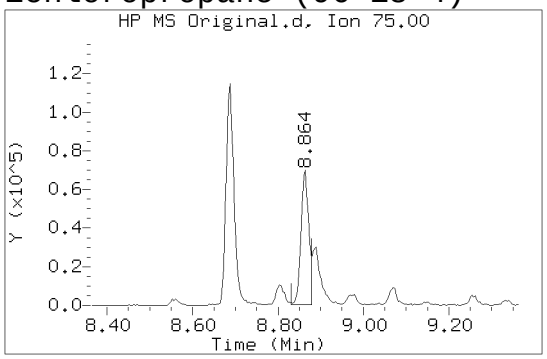

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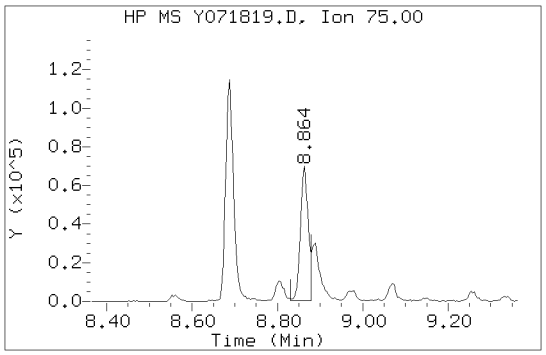

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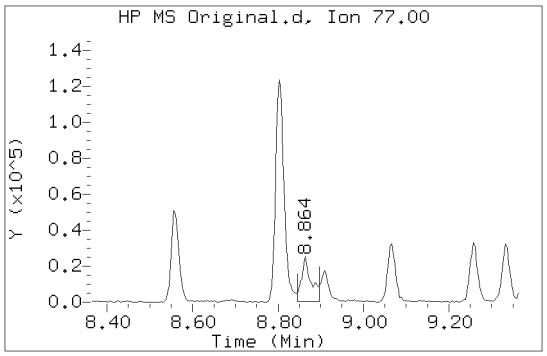

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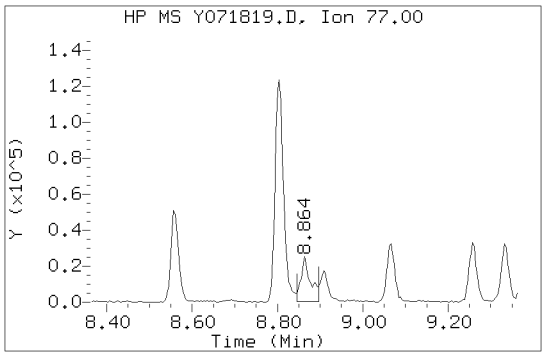

Chloroprene (126-99-8)

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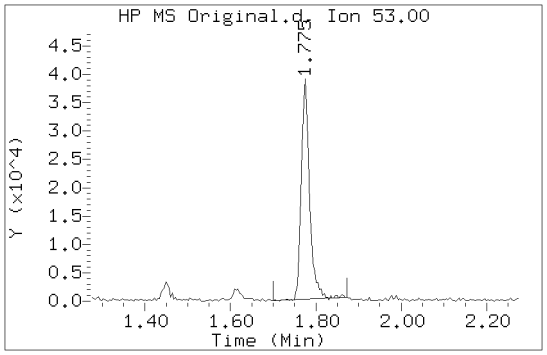

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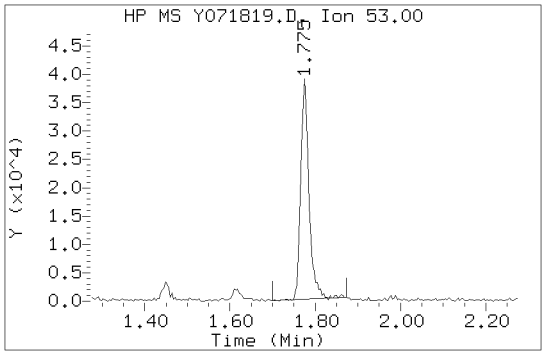

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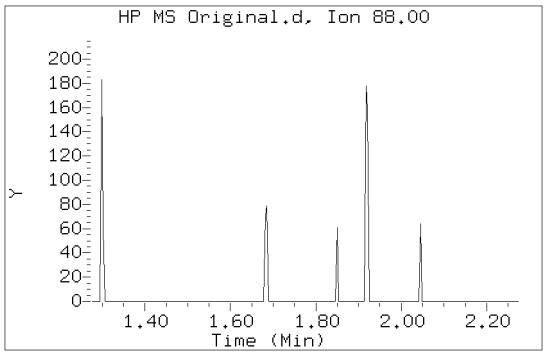

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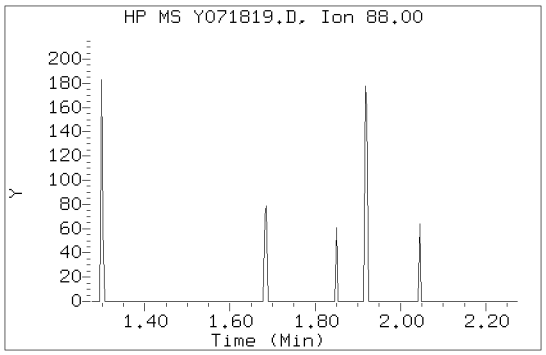

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LabSampID : HS23070658-05MSD

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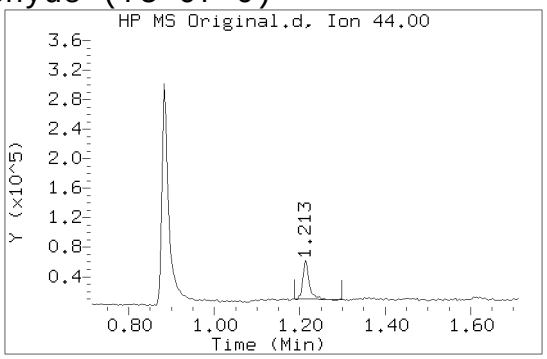

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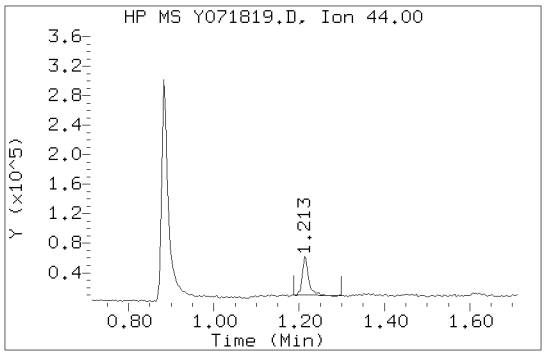

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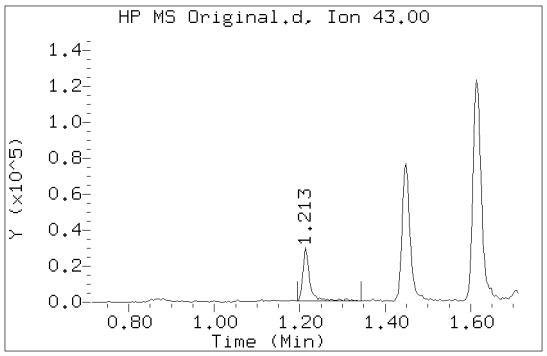

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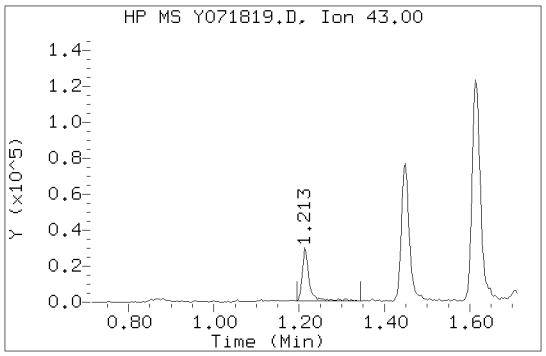

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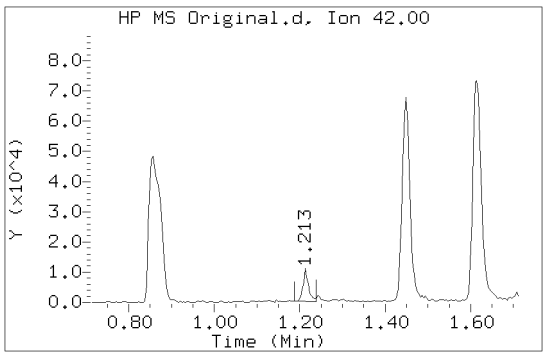

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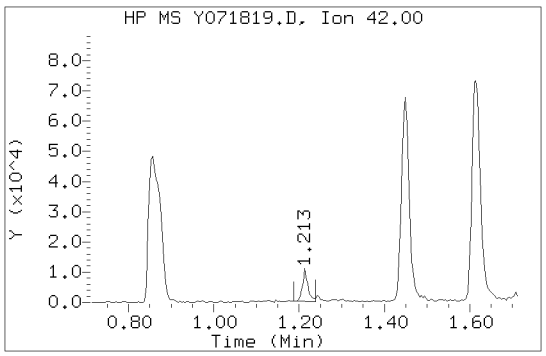

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Report Date: 25-Jul-2023 12:40

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230718.b\Y071820.D
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Inj Date : 19-JUL-2023 03:43
Operator : PC Inst ID: voa6.i
Smp Info : CCV-END;CCV-END;2;;
Misc Info : V6;WATER;0;1;
Comment   :
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Meth Date : 25-Jul-2023 12:40 voa6.i Quant Type: ISTD
Cal Date : 14-JUL-2023 14:24 Cal File: X071408.D
Als bottle: 48 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)
* 1 Pentafluorobenzene	168	4.181	4.181	(1.000)	447912	50.0000	
135 1,4-Dioxane	88	5.598	5.598	(1.339)	52127	1000.00	979.35
140 1,3-Butadiene	54	1.167	1.167	(0.279)	290148	50.0000	50.41
25 Methacrylonitrile	41	3.825	3.825	(0.915)	373280	50.0000	64.56
12 Isobutyl Alcohol	43	4.676	4.676	(1.118)	1055365	1000.00	1243.00
13 Acetonitrile	39	2.202	2.202	(0.527)	397412	500.000	632.72
14 Allyl Chloride	41	2.202	2.202	(0.527)	905757	50.0000	61.59
4 Propionitrile	54	3.660	3.660	(0.875)	520053	500.000	586.12
72 trans-1,4-Dichloro-2-butene	53	8.886	8.886	(1.159)	98497	50.0000	49.13
194 Acetaldehyde	44	1.216	1.216	(0.291)	95647	200.000	242.29(M)
23 Chloroprene	53	1.775	1.775	(0.424)	103449	50.0000	51.36(M)
130 Ethyl Acetate	43	3.660	3.660	(0.875)	404439	50.0000	60.79
40 Methyl Methacrylate	41	5.606	5.606	(1.341)	266335	50.0000	49.26
49 Ethyl Methacrylate	69	6.712	6.712	(1.352)	211898	50.0000	45.37
131 Methyl Acrylate	55	3.694	3.694	(0.883)	341164	50.0000	56.03
2 Dichlorodifluoromethane	85	0.976	0.976	(0.234)	190302	50.0000	41.71
3 Chloromethane	50	1.081	1.081	(0.259)	307833	50.0000	45.50
5 Vinyl Chloride	62	1.149	1.149	(0.275)	285522	50.0000	49.26
6 Bromomethane	94	1.344	1.344	(0.321)	113509	50.0000	47.32
7 Chloroethane	64	1.407	1.407	(0.337)	161439	50.0000	48.79

8	Trichlorofluoromethane	101	1.565	1.565 (0.374)	288686	50.0000	49.14
9	Acrolein	56	1.865	1.865 (0.446)	26138	100.000	153.49

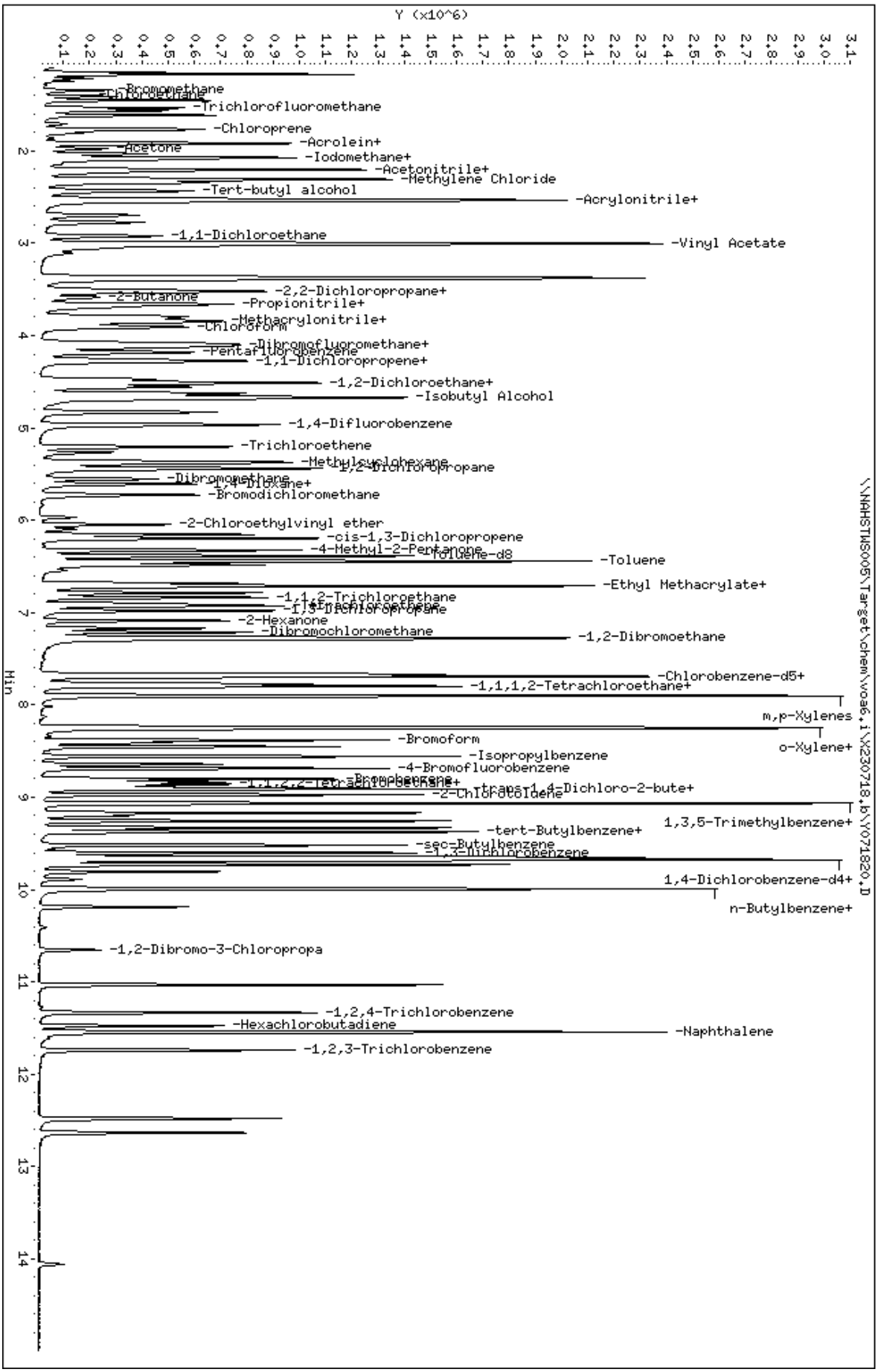
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	10 Acetone	43	1.973	1.973	(0.472)	221068	100.000	125.95
	11 1,1-Dichloroethene	96	1.917	1.917	(0.459)	151713	50.0000	46.23
	15 Iodomethane	142	2.030	2.030	(0.485)	409358	100.000	94.91
	16 Acrylonitrile	53	2.536	2.536	(0.606)	257331	100.000	117.89
	17 Methylene Chloride	84	2.303	2.303	(0.551)	198755	50.0000	51.36
	18 Methyl tert-butyl ether	73	2.536	2.536	(0.606)	648081	50.0000	53.10
	19 Carbon Disulfide	76	2.071	2.071	(0.495)	971602	100.000	94.19
	20 trans-1,2-Dichloroethene	96	2.532	2.532	(0.606)	181356	50.0000	47.77
	21 Vinyl Acetate	43	3.004	3.004	(0.719)	1714997	100.000	109.25
	22 1,1-Dichloroethane	63	2.922	2.922	(0.699)	432914	50.0000	51.97
	24 2-Butanone	43	3.581	3.581	(0.857)	287283	100.000	120.43
	26 2,2-Dichloropropane	77	3.510	3.510	(0.840)	277205	50.0000	42.90
	27 cis-1,2-Dichloroethene	96	3.529	3.529	(0.844)	246547	50.0000	50.98
	28 Chloroform	83	3.908	3.908	(0.935)	427709	50.0000	50.18
	29 Bromochloromethane	128	3.795	3.795	(0.908)	134066	50.0000	49.47
$	30 Dibromofluoromethane	113	4.095	4.095	(0.979)	227958	50.0000	55.61
	31 1,1,1-Trichloroethane	97	4.084	4.084	(0.977)	336564	50.0000	51.29
	32 1,1-Dichloropropene	75	4.279	4.279	(0.862)	267175	50.0000	45.93
	33 1,2-Dichloroethane	62	4.556	4.556	(0.918)	423713	50.0000	53.98
	34 Carbon Tetrachloride	117	4.260	4.260	(0.858)	267887	50.0000	45.72
$	35 1,2-Dichloroethane-d4	65	4.474	4.474	(1.070)	295991	50.0000	57.75
*	36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	713006	50.0000	
	37 Benzene	78	4.511	4.511	(0.909)	832077	50.0000	48.78
	38 Trichloroethene	130	5.208	5.208	(1.049)	234166	50.0000	48.54
	39 Bromodichloromethane	83	5.726	5.726	(1.153)	310916	50.0000	47.59
	41 2-Chloroethylvinyl ether	63	6.048	6.048	(1.218)	192773	100.000	96.65
	42 1,2-Dichloropropane	63	5.437	5.437	(1.095)	278422	50.0000	50.76
	44 Dibromomethane	93	5.550	5.550	(1.118)	146711	50.0000	47.26
	45 4-Methyl-2-Pentanone	43	6.325	6.325	(0.825)	619971	100.000	95.57
	46 cis-1,3-Dichloropropene	75	6.153	6.153	(1.239)	357263	50.0000	47.61
*	47 Chlorobenzene-d5	117	7.667	7.667	(1.000)	659161	50.0000	
$	48 Toluene-d8	98	6.385	6.385	(0.833)	790429	50.0000	46.57
	50 Toluene	91	6.445	6.445	(0.841)	839577	50.0000	47.31
	51 trans-1,3-Dichloropropene	75	6.682	6.682	(1.346)	306074	50.0000	48.39
	52 2-Hexanone	43	7.086	7.086	(0.924)	409529	100.000	96.11
	53 1,1,2-Trichloroethane	83	6.839	6.839	(0.892)	179151	50.0000	47.59
	54 1,3-Dichloropropane	76	6.981	6.981	(0.911)	363820	50.0000	47.31
	55 Dibromochloromethane	129	7.173	7.173	(0.935)	271442	50.0000	49.95
	56 Tetrachloroethene	164	6.925	6.925	(0.903)	160678	50.0000	43.83
	57 1,2-Dibromoethane	107	7.255	7.255	(0.946)	203605	50.0000	47.33
	58 1-Chlorohexane	55	7.694	7.694	(1.550)	205925	50.0000	35.95
	59 Chlorobenzene	112	7.690	7.690	(1.003)	577066	50.0000	46.52
	60 1,1,1,2-Tetrachloroethane	131	7.772	7.772	(1.014)	239912	50.0000	49.40
	61 Ethylbenzene	106	7.795	7.795	(1.017)	277213	50.0000	44.57
	62 m,p-Xylenes	106	7.900	7.900	(1.030)	705717	100.000	90.44
	63 o-Xylene	106	8.237	8.237	(1.074)	357011	50.0000	48.31
	64 Styrene	104	8.256	8.256	(1.077)	620782	50.0000	48.16
	66 Bromoform	173	8.410	8.410	(1.097)	175052	50.0000	50.20
	67 Isopropylbenzene	105	8.560	8.560	(1.116)	826005	50.0000	43.48
	68 1,1,2,2-Tetrachloroethane	83	8.833	8.833	(0.914)	267463	50.0000	43.77
$	69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	335946	50.0000	51.19
*	70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	363761	50.0000	

71 1,2,3-Trichloropropane	75	8.860	8.860 (0.917)	225847	50.0000	46.58(M)
73 n-Propylbenzene	91	8.908	8.908 (0.922)	960731	50.0000	43.70

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)	
	74 Bromobenzene	156	8.803	8.803	(0.911)	264403	50.0000	46.47	
	75 1,3,5-Trimethylbenzene	105	9.066	9.066	(0.938)	713631	50.0000	43.33	
	76 2-Chlorotoluene	91	8.972	8.972	(0.929)	647017	50.0000	43.63	
	77 4-Chlorotoluene	91	9.066	9.066	(0.938)	749239	50.0000	45.98	
	78 tert-Butylbenzene	119	9.332	9.332	(0.966)	599547	50.0000	42.45	
	79 1,2,4-Trimethylbenzene	105	9.377	9.377	(0.971)	729424	50.0000	44.17	
	81 sec-Butylbenzene	105	9.519	9.519	(0.985)	779651	50.0000	41.41	
	82 p-Isopropyltoluene	119	9.647	9.647	(0.998)	714490	50.0000	41.55	
	83 1,3-Dichlorobenzene	146	9.602	9.602	(0.994)	458014	50.0000	46.21	
	84 1,4-Dichlorobenzene	146	9.681	9.681	(1.002)	487029	50.0000	44.81	
	87 n-Butylbenzene	91	9.992	9.992	(1.034)	598420	50.0000	41.55	
	88 1,2-Dichlorobenzene	146	9.992	9.992	(1.034)	473945	50.0000	48.64	
	89 1,2-Dibromo-3-Chloropropane	155	10.655	10.655	(1.103)	47706	50.0000	47.55	
	90 1,2,4-Trichlorobenzene	180	11.334	11.334	(1.173)	278729	50.0000	41.65	
	91 Hexachlorobutadiene	225	11.476	11.476	(1.188)	105699	50.0000	35.01	
	92 Naphthalene	128	11.540	11.540	(1.194)	737840	50.0000	44.54	
	93 1,2,3-Trichlorobenzene	180	11.739	11.739	(1.215)	263820	50.0000	42.15	
M	94 1,2-Dichloroethylene (total)	96				427903	100.000		(a)
	141 Cyclohexane	56	4.118	4.118	(0.985)	334345	50.0000	43.06	
	138 Freon TF	101	1.917	1.917	(0.459)	128102	50.0000	46.81	
	147 Methylcyclohexane	55	5.381	5.381	(1.084)	762603	50.0000	50.67	
	146 Methyl Acetate	43	2.232	2.232	(0.534)	260409	50.0000	65.32	
	148 Tert-Butyl alcohol	59	2.434	2.434	(0.582)	615529	1000.00	1088.80	
	149 Isopropyl Alcohol	45	2.097	2.097	(0.502)	423657	1000.00	1207.73	

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.



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Date : 19-JUL-2023 03:43
Client ID: CCV-END
Sample Info: CCV-END;CCV-END;2;;
Purge Volume: 5.0
Column phase: DB624

Instrument: voa6.i
Operator: PC
Column diameter: 0.18

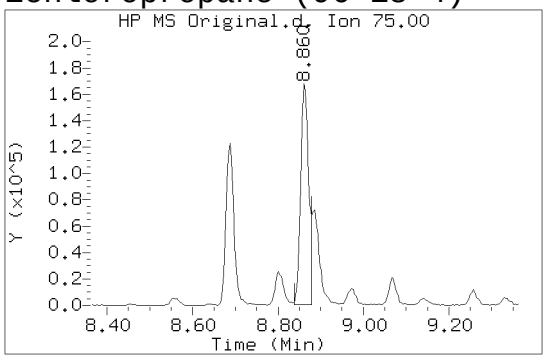
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230718.b\Y071820.D
Inj Date : 19-JUL-2023 03:43
InstruID : voa6.i
LabSampID : CCV-END

1,2,3-Trichloropropane (96-18-4)

Reason Code:

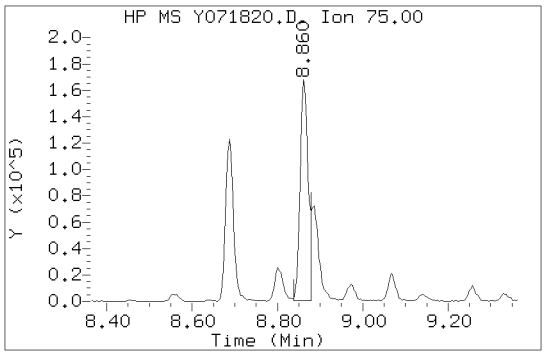
BEFORE

MASS
75
AREA
225847
HEIGHT
167658
25-Jul-2023
12:39
linh
pham



AFTER

MASS
75
AREA
225847
HEIGHT
167658
25-Jul-2023
12:39
linh
pham



BEFORE

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AREA
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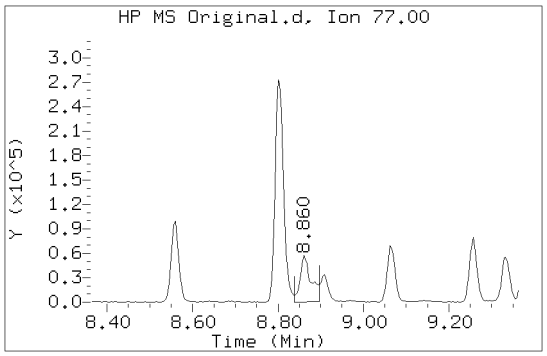
HEIGHT
56961
25-Jul-2023
12:39
linh
pham



AFTER

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77
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25-Jul-2023
12:39
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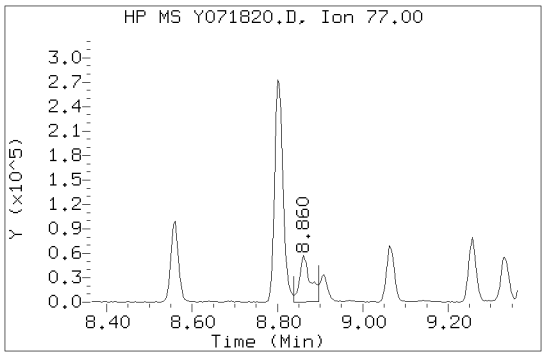
pham



Chloroprene (126-99-8)

Reason Code:

BEFORE

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AREA
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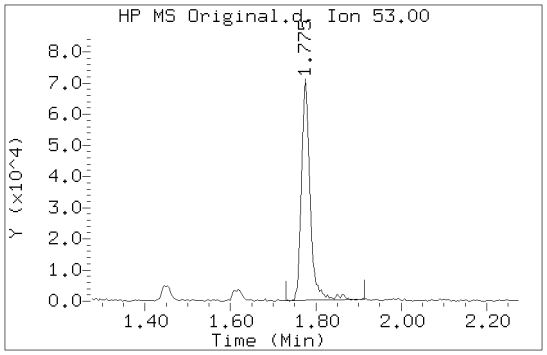
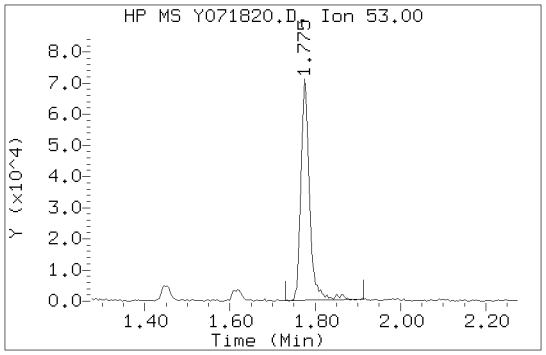
HEIGHT
71114
25-Jul-2023
12:39
linh
pham



AFTER

MASS
53
AREA
103449
HEIGHT
71114
25-Jul-2023
12:39
linh
pham



BEFORE

MASS
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AREA
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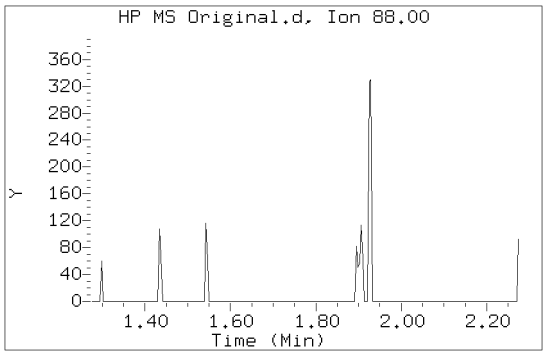
HEIGHT
0
25-Jul-2023
12:39
linh
pham



AFTER

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AREA
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HEIGHT
0
25-Jul-2023
12:39
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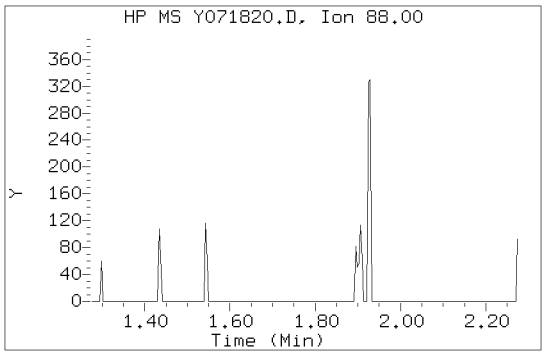

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Inj Date : 19-JUL-2023 03:43
InstruID : voa6.i
LabSampID : CCV-END

Acetaldehyde (75-07-0)

Reason Code:

BEFORE
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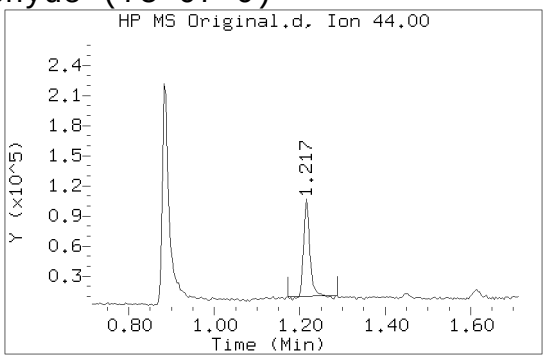
AREA
95647
HEIGHT
96759
25-Jul-2023
12:39
linh
pham



AFTER
MASS
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HEIGHT
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25-Jul-2023
12:39
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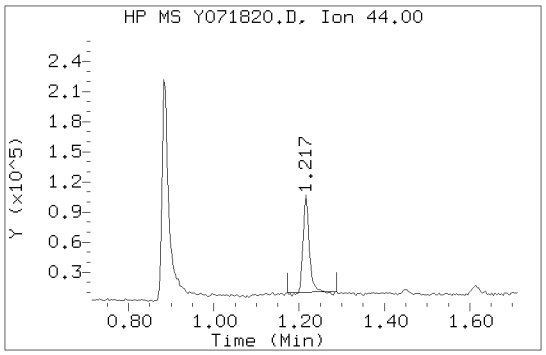

BEFORE
MASS
43
AREA
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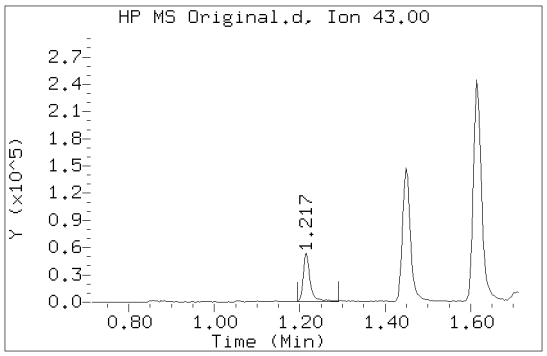
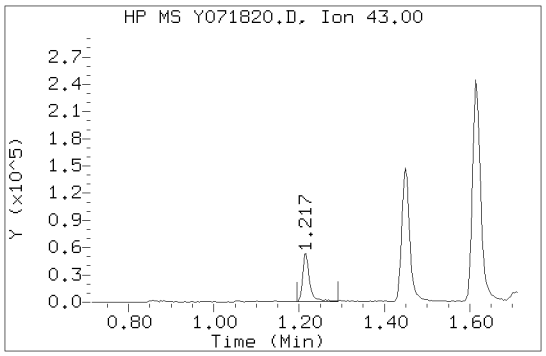
HEIGHT
53141
25-Jul-2023
12:39
linh
pham



AFTER
MASS
43
AREA
61938
HEIGHT
53141
25-Jul-2023
12:39
linh
pham



BEFORE
MASS
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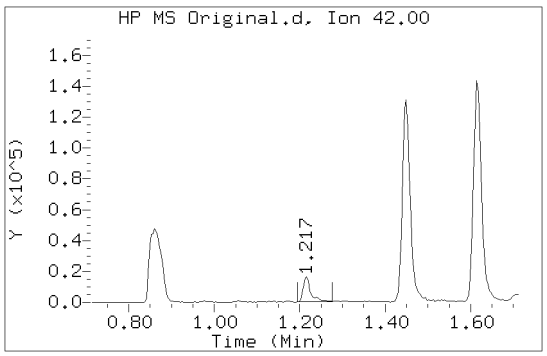
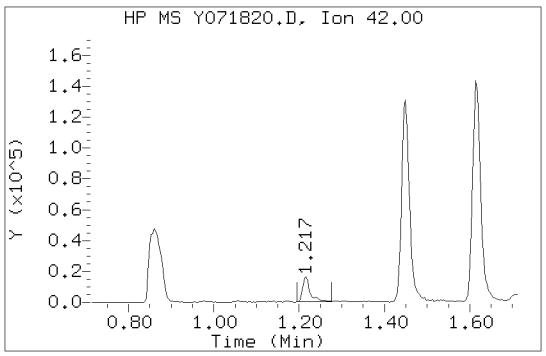
AREA
21060
HEIGHT
16141
25-Jul-2023
12:39
linh
pham



AFTER
MASS
42
AREA
21060
HEIGHT
16141
25-Jul-2023
12:39
linh
pham



right solutions.
right partner.

Raw Data VOA6 441778

Volatiles by EPA 8260

Workorder

HS23070658

Client

Bhate Environmental Associates, Inc.

Project

LHAAP Site 16

07/25/2023

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230719.b\X071901.D Page 1
Report Date: 19-Jul-2023 21:14

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230719.b\X071901.D
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 19-JUL-2023 10:08
Operator : PC Inst ID: voa6.i
Smp Info : BFB;BFB;3;;BFB
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230719.b\bfb.m
Meth Date : 14-Mar-2023 15:45 Linh.Pham Quant Type: ISTD
Cal Date : Cal File:
Als bottle: 1 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: NAHSTW7051

Concentration Formula: Amt * DF * Uf * Vf * Vi * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vf	1.000	Volumetric correction factor
Vi	2.000	Injection Volume
Cpnd Variable		Local Compound Variable

					CONCENTRATIONS ON-COL	CONCENTRATIONS FINAL		
RT	EXP RT	REL RT	MASS	RESPONSE	(ug/L)	(ug/l)	TARGET RANGE	RATIO
1 bfb							CAS #: 460-00-4	
8.687	8.889	(0.000)	95	174464			0.00- 100.00	100.00
8.687	8.889	(0.000)	50	39680			15.00- 40.00	22.74
8.687	8.889	(0.000)	75	84384			30.00- 60.00	48.37
8.687	8.889	(0.000)	96	11740			5.00- 9.00	6.73
8.687	8.889	(0.000)	173	0	0.0	0.0	0.00- 2.00	0.00
8.687	8.889	(0.000)	174	133248			50.00- 0.00	76.38
8.687	8.889	(0.000)	175	11846			5.00- 9.00	8.89
8.687	8.889	(0.000)	176	130144			95.00- 101.00	97.67
8.687	8.889	(0.000)	177	8795			5.00- 9.00	6.76

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	22.74
75	30.00 - 60.00% of mass 95	48.37
96	5.00 - 9.00% of mass 95	6.73
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	76.38
175	5.00 - 9.00% of mass 174	6.79 (8.89)
176	95.00 - 101.00% of mass 174	74.60 (97.67)
177	5.00 - 9.00% of mass 176	5.04 (6.76)

Data File: X071901.D
Spectrum: Scan 2159 (8.68)
Location of Maximum: 95.00
Number of points: 114

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	2509	63.80	1050	97.10	232	141.90	431
37.10	10107	65.10	98	98.10	1173	142.90	1169
38.10	8406	67.20	250	102.90	159	144.10	208
39.10	4910	68.00	19000	103.90	916	144.90	249
40.00	2587	69.00	17680	105.00	684	145.90	377
41.10	2061	70.00	2421	106.00	842	147.50	183
42.10	3081	71.10	234	106.80	1220	147.90	552
43.00	1704	72.10	492	108.80	472	149.00	148
44.10	2828	73.10	8283	109.90	172	149.60	193
45.00	3247	74.00	27800	110.90	161	152.10	111
45.70	153	75.00	84384	112.90	289	152.90	64
46.20	102	76.00	6954	115.10	202	153.90	294
47.10	2773	77.10	1368	116.10	532	154.80	509
48.10	1244	78.00	446	117.00	1191	157.00	372
49.00	7878	78.90	3669	118.00	504	158.80	164
50.10	39680	80.00	1216	119.00	609	168.90	96
51.00	14844	80.90	3053	119.80	105	170.20	111
52.10	513	82.00	883	120.30	69	170.80	126
52.90	240	82.90	139	126.00	55	171.30	85
54.00	299	85.00	95	127.00	283	171.80	409
55.10	4342	85.90	345	127.90	409	174.00	133248
56.10	3504	87.10	6902	129.00	185	175.00	11846
57.10	7128	87.90	5135	129.80	357	176.00	130144
58.00	321	91.00	1012	131.10	207	177.00	8795
58.70	94	92.00	6097	134.00	88	178.10	303
60.00	2315	93.00	6087	134.90	421	233.70	76
61.00	9634	94.00	18096	137.00	521	235.70	205
62.00	8783	95.00	174464	138.70	96		
63.00	6760	96.00	11740	141.00	1259		

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230719.b\X071901.D Page 1

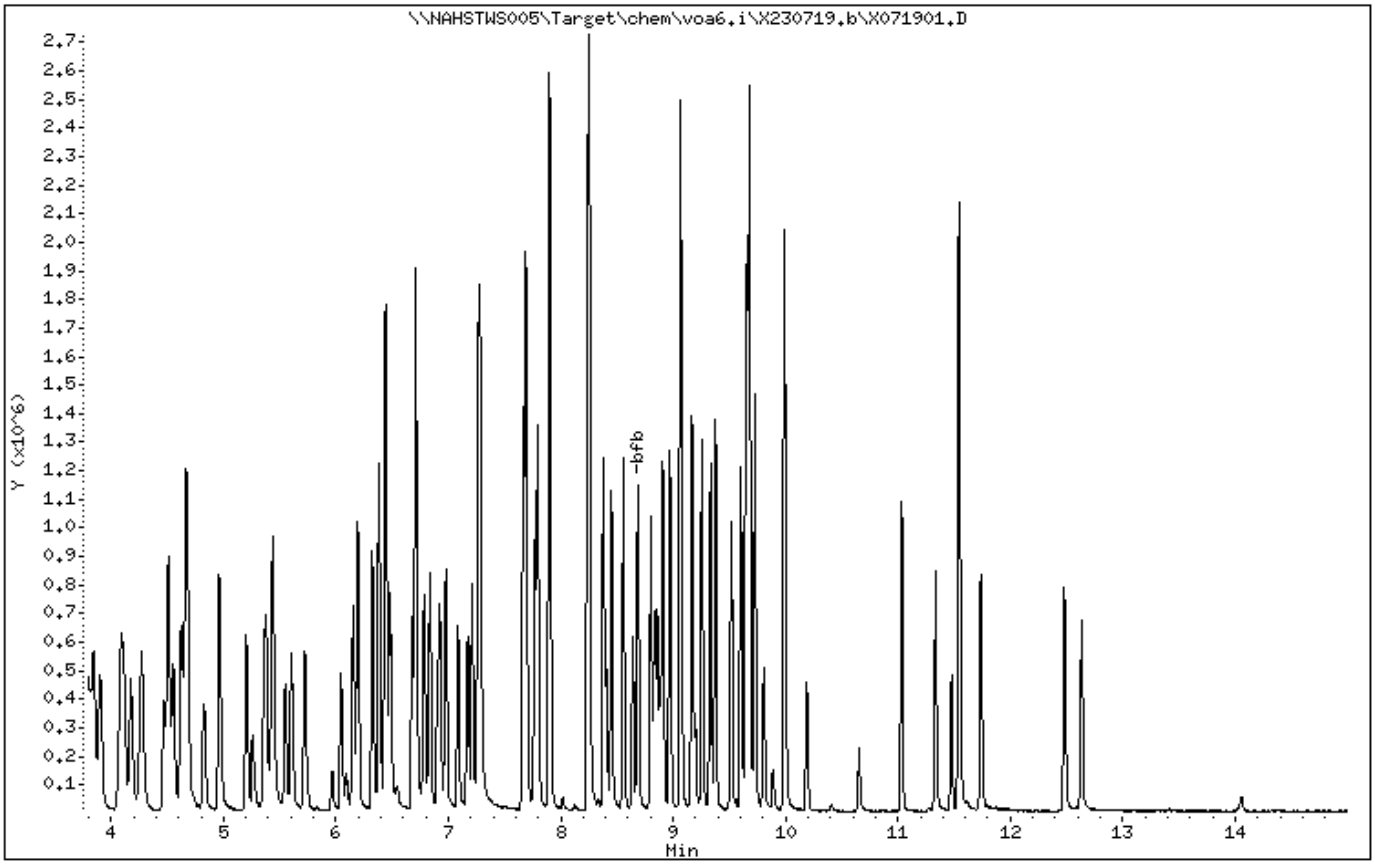
Date : 19-JUL-2023 10:08

Client ID: BFB Instrument: voa6.i

Sample Info: BFB;BFB;3;;BFB

Volume Injected (uL): 2.0 Operator: PC

Column phase: DB624 Column diameter: 0.25



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230719.b\X071901.D Page 2

Date : 19-JUL-2023 10:08

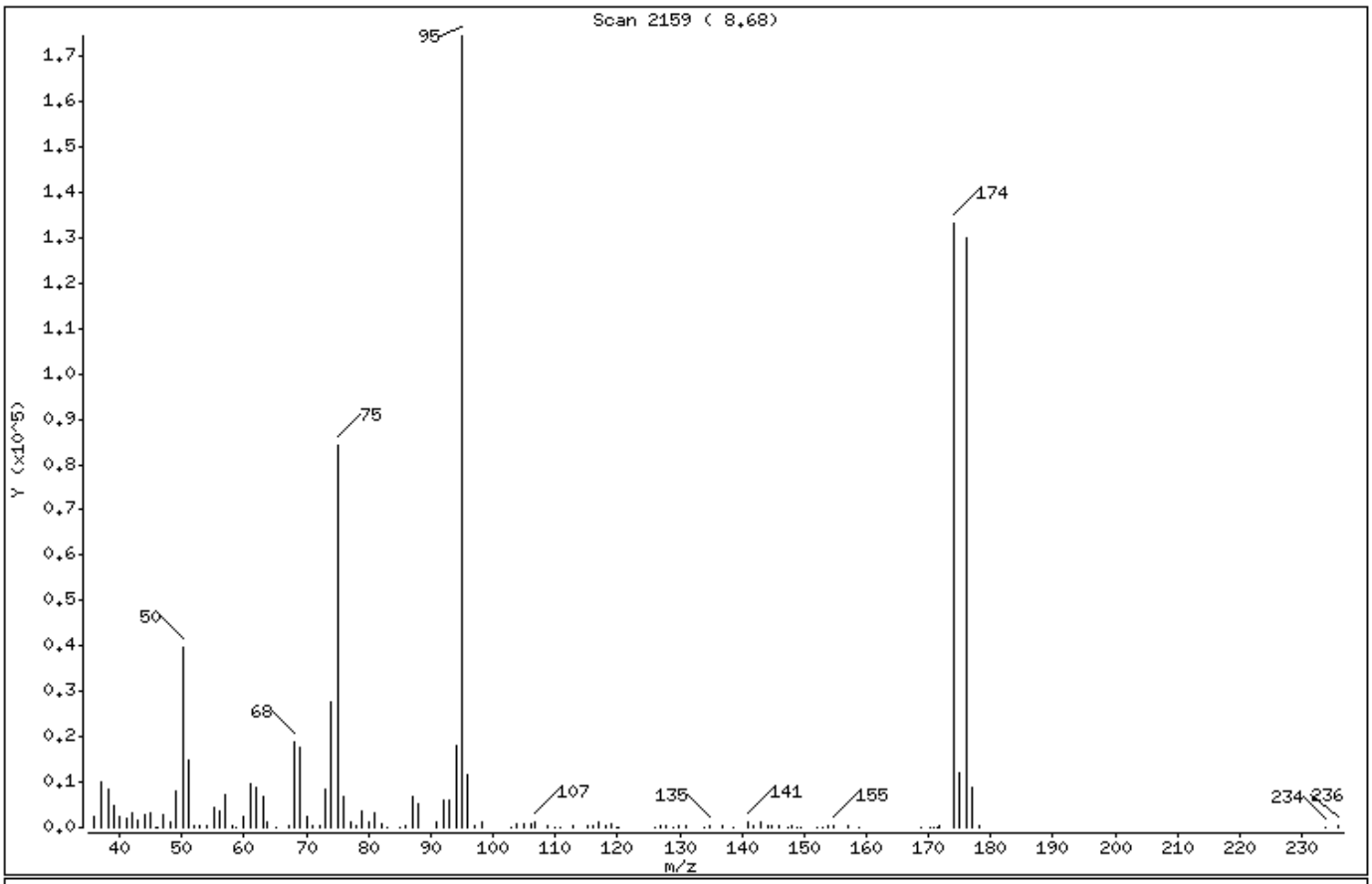
Client ID: BFB Instrument: voa6.i

Sample Info: BFB;BFB;3;;BFB

Volume Injected (uL): 2.0 Operator: PC

Column phase: DB624 Column diameter: 0.25

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	22.74
75	30.00 - 60.00% of mass 95	48.37
96	5.00 - 9.00% of mass 95	6.73
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	76.38
175	5.00 - 9.00% of mass 174	6.79 (8.89)
176	95.00 - 101.00% of mass 174	74.60 (97.67)
177	5.00 - 9.00% of mass 176	5.04 (6.76)

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230719.b\X071901.D

Date : 19-JUL-2023 10:08

Client ID: BFB Instrument: voa6.i

Sample Info: BFB;BFB;3;;BFB

Volume Injected (uL): 2.0 Operator: PC

Column phase: DB624 Column diameter: 0.25

Data File: X071901.D
Spectrum: Scan 2159 (8.68)
Location of Maximum: 95.00
Number of points: 114

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	2509	63.80	1050	97.10	232	141.90	431
37.10	10107	65.10	98	98.10	1173	142.90	1169
38.10	8406	67.20	250	102.90	159	144.10	208
39.10	4910	68.00	19000	103.90	916	144.90	249
40.00	2587	69.00	17680	105.00	684	145.90	377
41.10	2061	70.00	2421	106.00	842	147.50	183
42.10	3081	71.10	234	106.80	1220	147.90	552
43.00	1704	72.10	492	108.80	472	149.00	148
44.10	2828	73.10	8283	109.90	172	149.60	193
45.00	3247	74.00	27800	110.90	161	152.10	111
45.70	153	75.00	84384	112.90	289	152.90	64
46.20	102	76.00	6954	115.10	202	153.90	294
47.10	2773	77.10	1368	116.10	532	154.80	509
48.10	1244	78.00	446	117.00	1191	157.00	372
49.00	7878	78.90	3669	118.00	504	158.80	164
50.10	39680	80.00	1216	119.00	609	168.90	96
51.00	14844	80.90	3053	119.80	105	170.20	111
52.10	513	82.00	883	120.30	69	170.80	126
52.90	240	82.90	139	126.00	55	171.30	85
54.00	299	85.00	95	127.00	283	171.80	409
55.10	4342	85.90	345	127.90	409	174.00	133248
56.10	3504	87.10	6902	129.00	185	175.00	11846
57.10	7128	87.90	5135	129.80	357	176.00	130144
58.00	321	91.00	1012	131.10	207	177.00	8795
58.70	94	92.00	6097	134.00	88	178.10	303
60.00	2315	93.00	6087	134.90	421	233.70	76
61.00	9634	94.00	18096	137.00	521	235.70	205
62.00	8783	95.00	174464	138.70	96		
63.00	6760	96.00	11740	141.00	1259		

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230719.b\X071903.D Page 1
Report Date: 25-Jul-2023 12:41

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230719.b\X071903.D
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Inj Date : 19-JUL-2023 10:49
Operator : PC Inst ID: voa6.i
Smp Info : CCV;CCV;2;;
Misc Info : V6;WATER;0;1;
Comment   :
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Meth Date : 25-Jul-2023 12:41 voa6.i Quant Type: ISTD
Cal Date : 14-JUL-2023 14:24 Cal File: X071408.D
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)
* 1 Pentafluorobenzene	168	4.178	4.178	(1.000)	445562	50.0000	
135 1,4-Dioxane	88	5.598	5.598	(1.340)	51350	1000.00	969.84
140 1,3-Butadiene	54	1.168	1.168	(0.280)	299854	50.0000	52.37
25 Methacrylonitrile	41	3.825	3.825	(0.916)	303791	50.0000	52.82
12 Isobutyl Alcohol	43	4.680	4.680	(1.120)	882450	1000.00	1044.82
13 Acetonitrile	39	2.202	2.202	(0.527)	339790	500.000	543.83
14 Allyl Chloride	41	2.198	2.198	(0.526)	816189	50.0000	55.79
4 Propionitrile	54	3.657	3.657	(0.875)	461625	500.000	523.01
72 trans-1,4-Dichloro-2-butene	53	8.886	8.886	(1.159)	107002	50.0000	54.86
194 Acetaldehyde	44	1.213	1.213	(0.290)	92904	200.000	236.05(M)
23 Chloroprene	53	1.775	1.775	(0.425)	103439	50.0000	51.63(M)
130 Ethyl Acetate	43	3.660	3.660	(0.876)	338174	50.0000	51.09
40 Methyl Methacrylate	41	5.606	5.606	(1.342)	265291	50.0000	49.33
49 Ethyl Methacrylate	69	6.712	6.712	(1.352)	210118	50.0000	45.87
131 Methyl Acrylate	55	3.690	3.690	(0.883)	318969	50.0000	52.66
132 n-Butanol	56	5.261	5.261	(1.259)	143759	1000.00	969.22
136 n-Hexane	57	2.776	2.776	(0.664)	243352	50.0000	55.06
139 Diethyl ether	59	1.760	1.760	(0.421)	218875	50.0000	52.67
156 Diisopropyl ether	45	3.008	3.008	(0.720)	1011857	50.0000	55.10
2 Dichlorodifluoromethane	85	0.976	0.976	(0.234)	205589	50.0000	45.21

3 Chloromethane	50	1.081	1.081 (0.259)	335102	50.0000	49.79
5 Vinyl Chloride	62	1.145	1.145 (0.274)	285559	50.0000	49.52

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230719.b\X071903.D Page 2
Report Date: 25-Jul-2023 12:41

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	6 Bromomethane	94	1.344	1.344	(0.322)	114366	50.0000	47.93
	7 Chloroethane	64	1.407	1.407	(0.337)	158463	50.0000	48.14
	8 Trichlorofluoromethane	101	1.565	1.565	(0.375)	314186	50.0000	53.77
	9 Acrolein	56	1.865	1.865	(0.446)	24100	100.000	142.35
	10 Acetone	43	1.973	1.973	(0.472)	199828	100.000	114.00
	11 1,1-Dichloroethene	96	1.917	1.917	(0.459)	156233	50.0000	47.86
	15 Iodomethane	142	2.030	2.030	(0.486)	394727	100.000	92.19
	16 Acrylonitrile	53	2.536	2.536	(0.607)	245973	100.000	113.28
	17 Methylene Chloride	84	2.303	2.303	(0.551)	196379	50.0000	51.01
	18 Methyl tert-butyl ether	73	2.540	2.540	(0.608)	626289	50.0000	51.58
	19 Carbon Disulfide	76	2.071	2.071	(0.496)	990041	100.000	96.48
	20 trans-1,2-Dichloroethene	96	2.532	2.532	(0.606)	180946	50.0000	47.92
	21 Vinyl Acetate	43	3.001	3.001	(0.718)	1809469	100.000	115.87
	22 1,1-Dichloroethane	63	2.922	2.922	(0.699)	421918	50.0000	50.92
	24 2-Butanone	43	3.589	3.589	(0.859)	236761	100.000	99.78
	26 2,2-Dichloropropane	77	3.507	3.507	(0.839)	309733	50.0000	48.16
	27 cis-1,2-Dichloroethene	96	3.525	3.525	(0.844)	231217	50.0000	48.06
	28 Chloroform	83	3.904	3.904	(0.935)	397126	50.0000	46.84
	29 Bromochloromethane	128	3.795	3.795	(0.908)	127886	50.0000	47.44
$	30 Dibromofluoromethane	113	4.095	4.095	(0.980)	223590	50.0000	54.82
	31 1,1,1-Trichloroethane	97	4.084	4.084	(0.978)	321051	50.0000	49.19
	32 1,1-Dichloropropene	75	4.279	4.279	(0.862)	265915	50.0000	46.61
	33 1,2-Dichloroethane	62	4.556	4.556	(0.918)	375119	50.0000	48.72
	34 Carbon Tetrachloride	117	4.264	4.264	(0.859)	260985	50.0000	45.41
$	35 1,2-Dichloroethane-d4	65	4.474	4.474	(1.071)	271590	50.0000	53.22
*	36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	699339	50.0000	
	37 Benzene	78	4.511	4.511	(0.909)	788414	50.0000	47.13
	38 Trichloroethene	130	5.205	5.205	(1.048)	222278	50.0000	46.97
	39 Bromodichloromethane	83	5.726	5.726	(1.153)	305897	50.0000	47.74
	41 2-Chloroethylvinyl ether	63	6.048	6.048	(1.218)	194009	100.000	99.17
	42 1,2-Dichloropropane	63	5.433	5.433	(1.094)	265735	50.0000	49.40
	44 Dibromomethane	93	5.550	5.550	(1.118)	144729	50.0000	47.53
	45 4-Methyl-2-Pentanone	43	6.326	6.326	(0.825)	608888	100.000	96.48
	46 cis-1,3-Dichloropropene	75	6.153	6.153	(1.239)	361929	50.0000	49.17
*	47 Chlorobenzene-d5	117	7.668	7.668	(1.000)	641298	50.0000	
$	48 Toluene-d8	98	6.382	6.382	(0.832)	785649	50.0000	47.58
	50 Toluene	91	6.446	6.446	(0.841)	842718	50.0000	48.81
	51 trans-1,3-Dichloropropene	75	6.682	6.682	(1.346)	310907	50.0000	50.11
	52 2-Hexanone	43	7.087	7.087	(0.924)	400662	100.000	96.65
	53 1,1,2-Trichloroethane	83	6.835	6.835	(0.891)	175908	50.0000	48.03
	54 1,3-Dichloropropane	76	6.982	6.982	(0.911)	363272	50.0000	48.55
	55 Dibromochloromethane	129	7.173	7.173	(0.935)	270243	50.0000	51.11
	56 Tetrachloroethene	164	6.925	6.925	(0.903)	166788	50.0000	46.76
	57 1,2-Dibromoethane	107	7.259	7.259	(0.947)	203692	50.0000	48.67
	58 1-Chlorohexane	55	7.694	7.694	(1.550)	239401	50.0000	42.61
	59 Chlorobenzene	112	7.690	7.690	(1.003)	571811	50.0000	47.38
	60 1,1,1,2-Tetrachloroethane	131	7.773	7.773	(1.014)	235282	50.0000	49.80
	61 Ethylbenzene	106	7.795	7.795	(1.017)	278464	50.0000	46.01
	62 m,p-Xylenes	106	7.900	7.900	(1.030)	706467	100.000	93.06
	63 o-Xylene	106	8.237	8.237	(1.074)	348403	50.0000	48.46
	64 Styrene	104	8.256	8.256	(1.077)	611648	50.0000	48.77
	66 Bromoform	173	8.406	8.406	(1.096)	169750	50.0000	50.04

67	Isopropylbenzene	105	8.560	8.560 (1.116)	853096	50.0000	46.16
68	1,1,2,2-Tetrachloroethane	83	8.837	8.837 (0.915)	283689	50.0000	47.89

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
$	69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	341302	50.0000	53.48
*	70 1,4-Dichlorobenzene-d4	152	9.658	9.658	(1.000)	352641	50.0000	
	71 1,2,3-Trichloropropane	75	8.863	8.863	(0.918)	224205	50.0000	47.70(M)
	73 n-Propylbenzene	91	8.908	8.908	(0.922)	1002440	50.0000	47.04
	74 Bromobenzene	156	8.800	8.800	(0.911)	261501	50.0000	47.41
	75 1,3,5-Trimethylbenzene	105	9.062	9.062	(0.938)	727900	50.0000	45.59
	76 2-Chlorotoluene	91	8.972	8.972	(0.929)	647931	50.0000	45.07
	77 4-Chlorotoluene	91	9.066	9.066	(0.939)	760445	50.0000	48.14
	78 tert-Butylbenzene	119	9.332	9.332	(0.966)	614152	50.0000	44.86
	79 1,2,4-Trimethylbenzene	105	9.377	9.377	(0.971)	743547	50.0000	46.44
	81 sec-Butylbenzene	105	9.516	9.516	(0.985)	823617	50.0000	45.13
	82 p-Isopropyltoluene	119	9.647	9.647	(0.999)	744368	50.0000	44.65
	83 1,3-Dichlorobenzene	146	9.602	9.602	(0.994)	455040	50.0000	47.36
	84 1,4-Dichlorobenzene	146	9.681	9.681	(1.002)	496439	50.0000	47.12
	87 n-Butylbenzene	91	9.992	9.992	(1.035)	644860	50.0000	46.19
	88 1,2-Dichlorobenzene	146	9.992	9.992	(1.035)	458673	50.0000	48.55
	89 1,2-Dibromo-3-Chloropropane	155	10.652	10.652	(1.103)	45627	50.0000	46.93
	90 1,2,4-Trichlorobenzene	180	11.338	11.338	(1.174)	291741	50.0000	44.96
	91 Hexachlorobutadiene	225	11.476	11.476	(1.188)	126434	50.0000	42.65
	92 Naphthalene	128	11.540	11.540	(1.195)	739381	50.0000	46.04
	93 1,2,3-Trichlorobenzene	180	11.739	11.739	(1.215)	265376	50.0000	43.73
M	94 1,2-Dichloroethylene (total)	96				412163	100.000	(a)
	141 Cyclohexane	56	4.125	4.125	(0.987)	351603	50.0000	45.52
	138 Freon TF	101	1.921	1.921	(0.460)	150931	50.0000	54.16
	147 Methylcyclohexane	55	5.381	5.381	(1.084)	692721	50.0000	46.92
	146 Methyl Acetate	43	2.232	2.232	(0.534)	236748	50.0000	59.70
	148 Tert-Butyl alcohol	59	2.435	2.435	(0.583)	581467	1000.00	1033.97
	149 Isopropyl Alcohol	45	2.097	2.097	(0.502)	387874	1000.00	1111.55

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

01321209

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230719.b\X071903.D

Page 1

Date : 19-JUL-2023 10:49

Client ID: CCV

Instrument: voa6.i

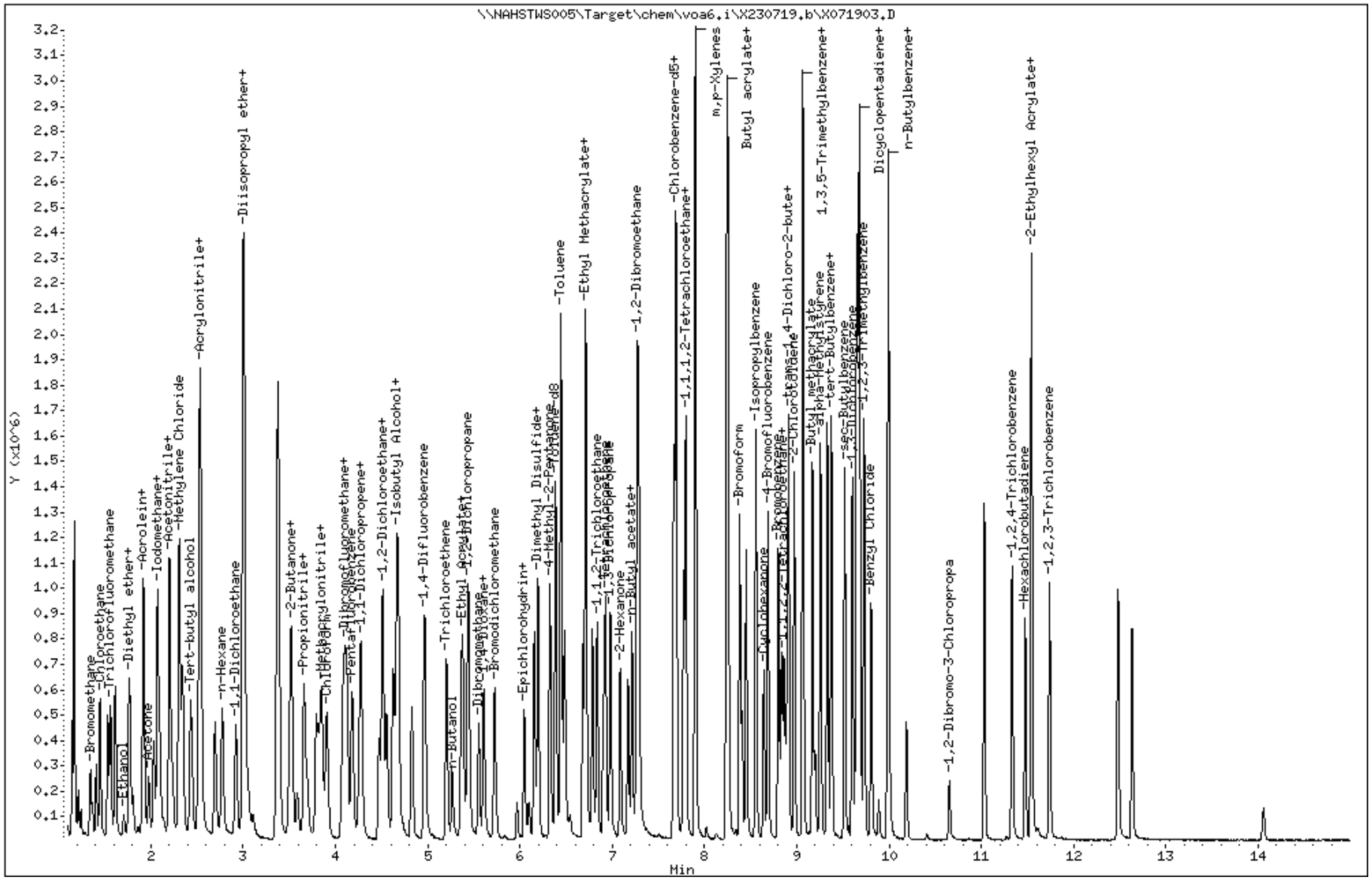
Sample Info: CCV;CCV;2;;

Purge Volume: 5.0

Operator: PC

Column phase: DB624

Column diameter: 0.18



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Inj Date : 19-JUL-2023 10:49
InstruID : voa6.i
LabSampID : CCV

1,2,3-Trichloropropane (96-18-4)

Reason Code:

BEFORE

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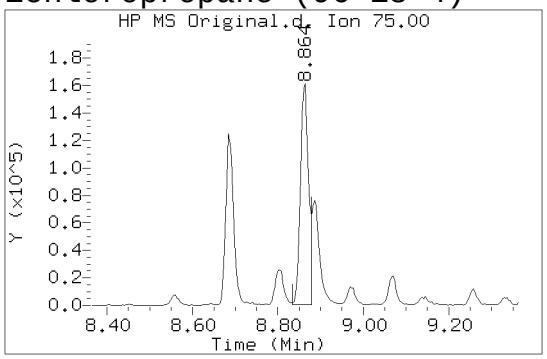
HEIGHT
160992
25-Jul-2023
12:41
linh
pham



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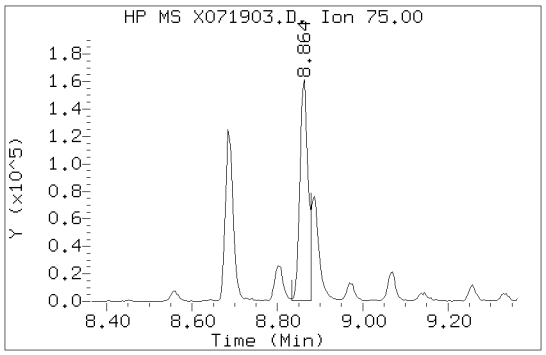

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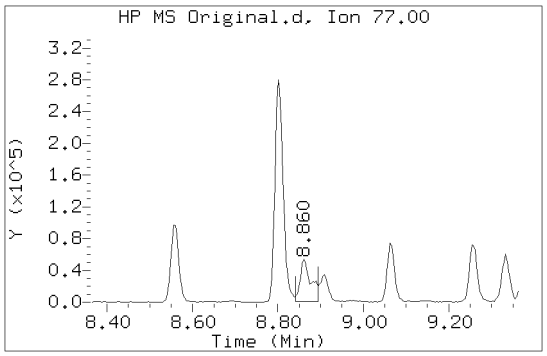

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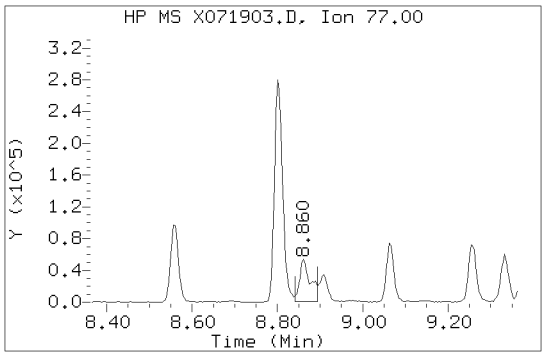

Chloroprene (126-99-8)

Reason Code:

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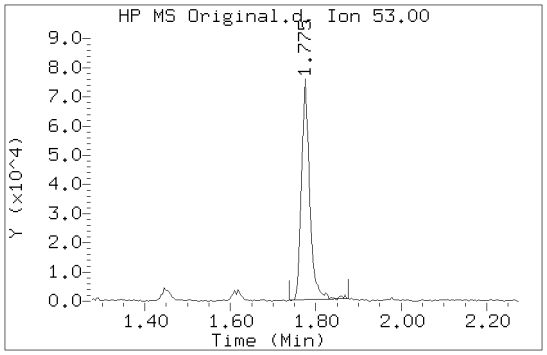

AFTER

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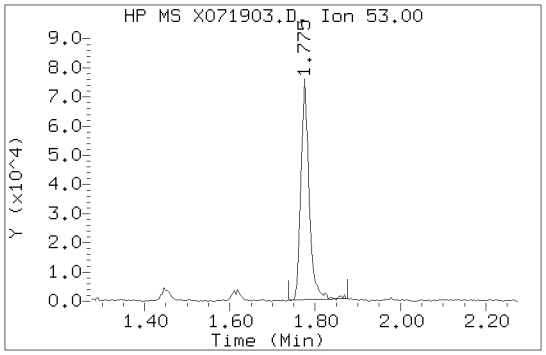

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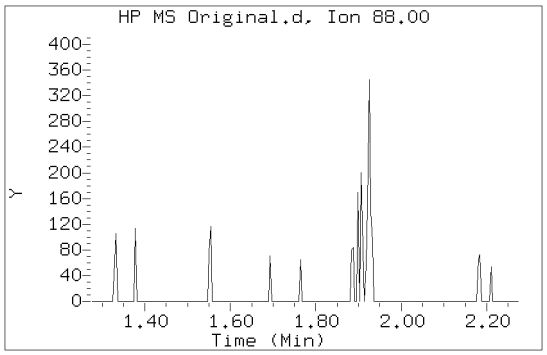

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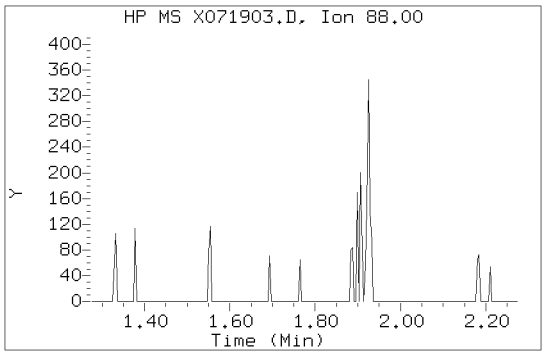

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Inj Date : 19-JUL-2023 10:49
InstruID : voa6.i
LabSampID : CCV

Acetaldehyde (75-07-0)

Reason Code:

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HEIGHT
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25-Jul-2023
12:41
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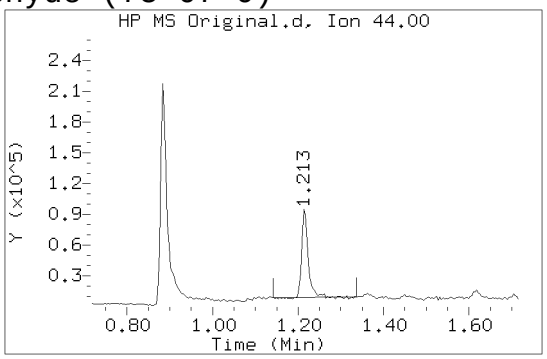

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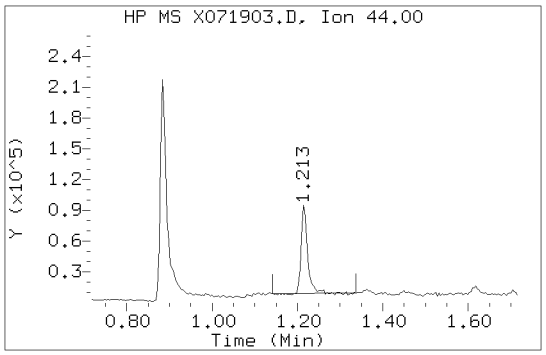

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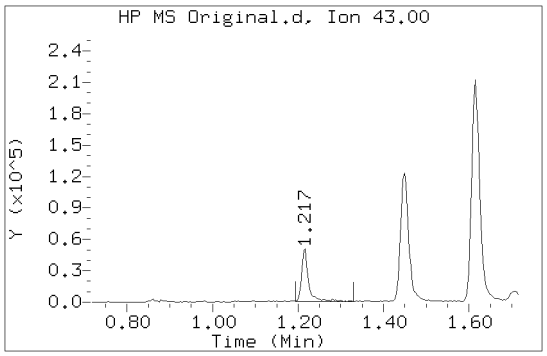

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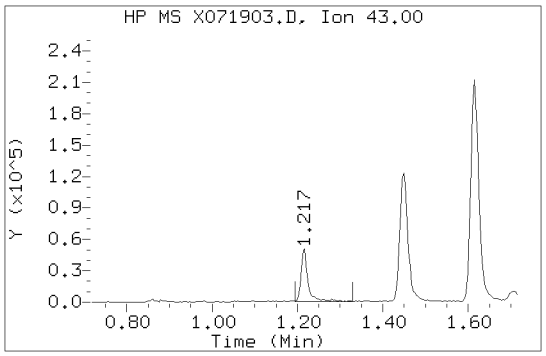

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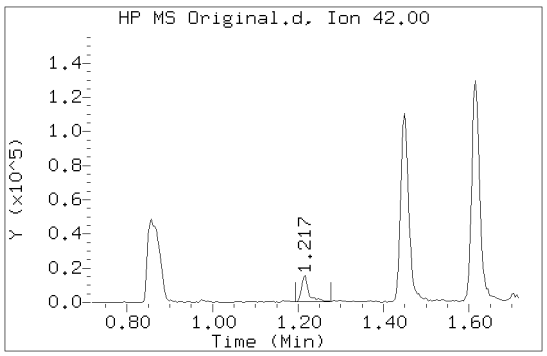
25-Jul-2023
12:41
linh
pham



AFTER
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25-Jul-2023
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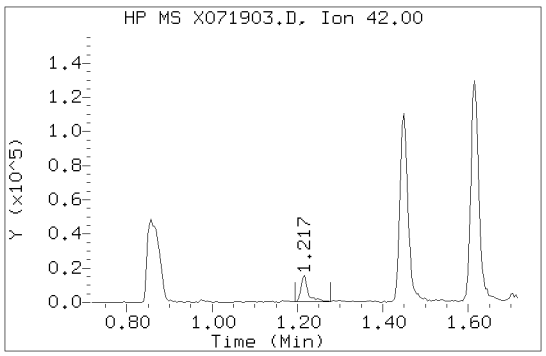

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230719.b\X071904.D Page 1
Report Date: 25-Jul-2023 12:41

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230719.b\X071904.D
Lab Smp Id: CCB Client Smp ID: CCB
Inj Date : 19-JUL-2023 11:09
Operator : PC Inst ID: voa6.i
Smp Info : CCB;CCB;;;
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230719.b\8260W.m
Meth Date : 25-Jul-2023 12:41 voa6.i Quant Type: ISTD
Cal Date : 14-JUL-2023 14:24 Cal File: X071408.D
Als bottle: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.181	4.178	(1.000)	471311	50.0000	
$ 30 Dibromofluoromethane	113	4.099	4.095	(0.980)	229191	53.1049	53.10
$ 35 1,2-Dichloroethane-d4	65	4.470	4.474	(1.069)	293558	54.3985	54.39
* 36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	678628	50.0000	
* 47 Chlorobenzene-d5	117	7.667	7.668	(1.000)	604283	50.0000	
$ 48 Toluene-d8	98	6.385	6.382	(0.833)	813330	52.2758	52.27
$ 69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	289359	48.0763	48.07
* 70 1,4-Dichlorobenzene-d4	152	9.662	9.658	(1.000)	309299	50.0000	

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Data File: \\NAHSTWS005\Target\chem\voa6.i\X230719.b\X071904.D

Page 1

Date : 19-JUL-2023 11:09

Client ID: CCB

Instrument: voa6.i

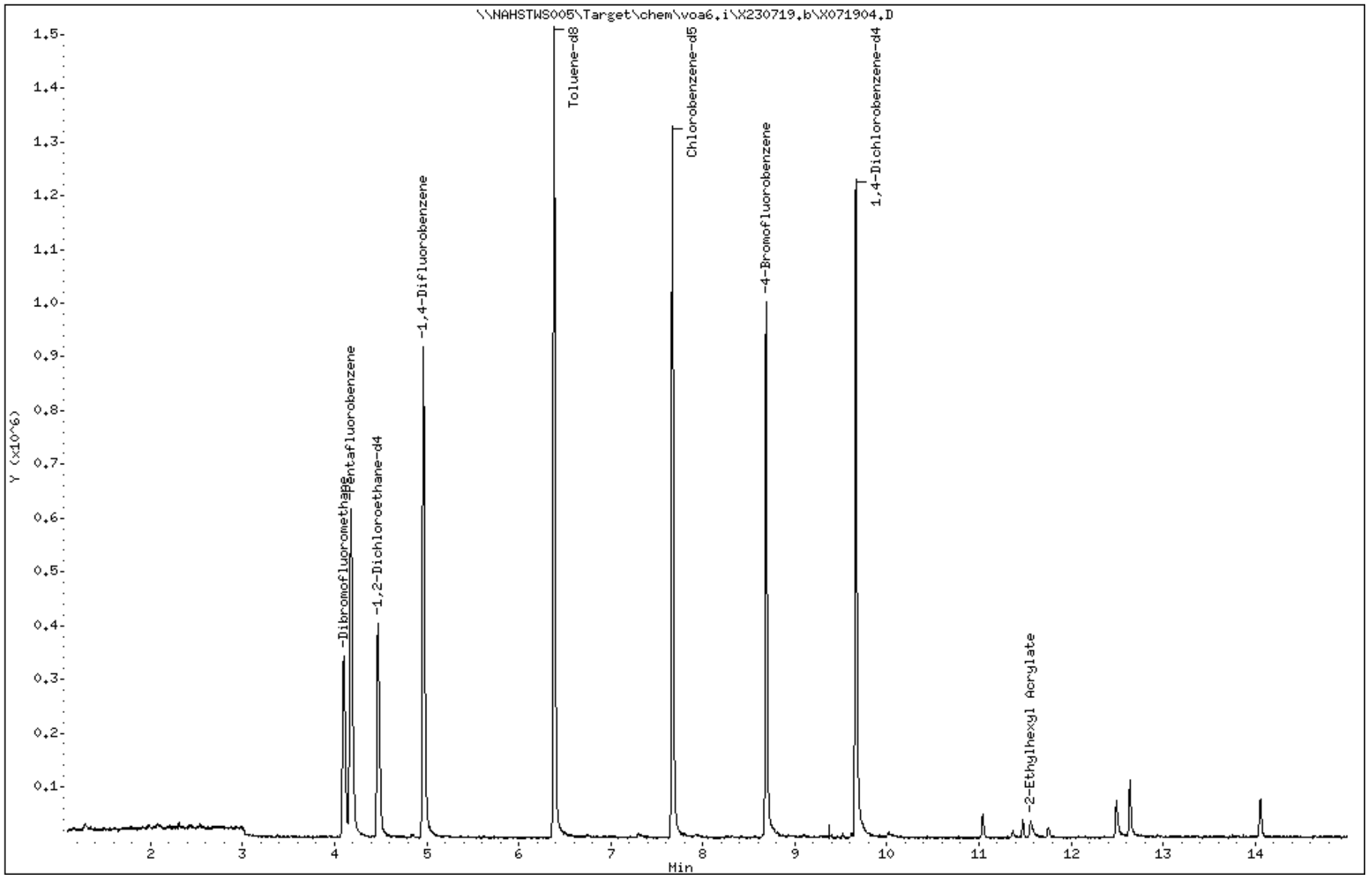
Sample Info: CCB;CCB;;;

Purge Volume: 5.0

Operator: PC

Column phase: DB624

Column diameter: 0.18



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Inj Date : 19-JUL-2023 11:09
InstruID : voa6.i
LabSampID : CCB

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230719.b\X071907.D Page 1
Report Date: 25-Jul-2023 12:41

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230719.b\X071907.D
Lab Smp Id: VBLKW-230719 Client Smp ID: VBLKW-230719
Inj Date : 19-JUL-2023 12:11
Operator : PC Inst ID: voa6.i
Smp Info : VBLKW-230719;VBLKW-230719;3;;BLANK
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230719.b\8260W.m
Meth Date : 25-Jul-2023 12:41 voa6.i Quant Type: ISTD
Cal Date : 14-JUL-2023 14:24 Cal File: X071408.D
Als bottle: 6 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.177	4.178	(1.000)	470929	50.0000	
$ 30 Dibromofluoromethane	113	4.099	4.095	(0.981)	230561	53.4709	53.47
$ 35 1,2-Dichloroethane-d4	65	4.470	4.474	(1.070)	290158	53.8054	53.80
* 36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	693682	50.0000	
* 47 Chlorobenzene-d5	117	7.667	7.668	(1.000)	609883	50.0000	
$ 48 Toluene-d8	98	6.385	6.382	(0.833)	811486	51.6784	51.67
$ 69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	285293	46.9556	46.95
* 70 1,4-Dichlorobenzene-d4	152	9.662	9.658	(1.000)	320923	50.0000	

01321216

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230719.b\X071907.D

Date : 19-JUL-2023 12:11

Client ID: VBLKW-230719

Instrument: voa6.i

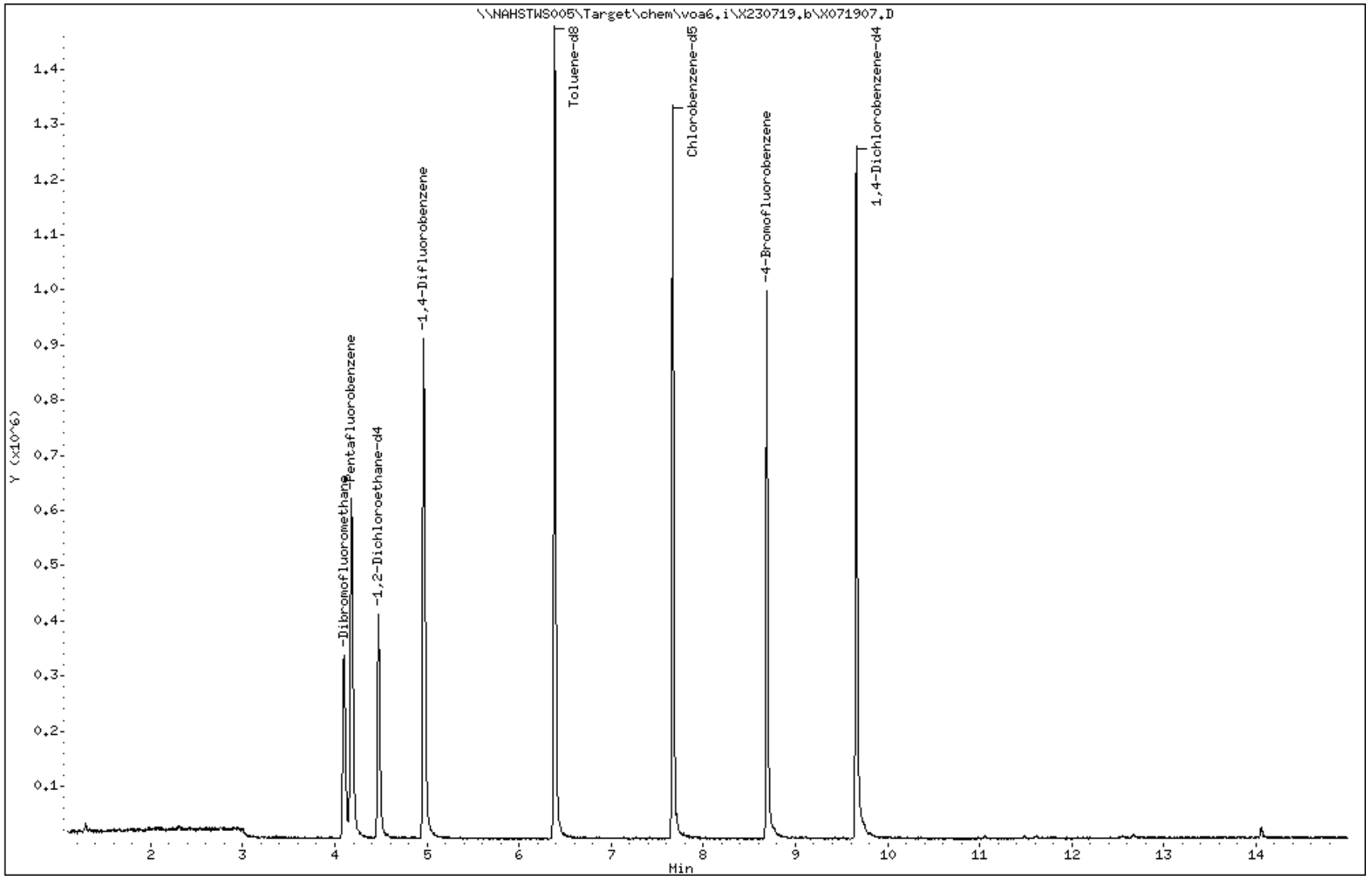
Sample Info: VBLKW-230719;VBLKW-230719;3;;BLANK

Purge Volume: 5.0

Operator: PC

Column phase: DB624

Column diameter: 0.18



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Inj Date : 19-JUL-2023 12:11
InstruID : voa6.i
LabSampID : VBLKW-230719

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230719.b\X071909.D Page 1
Report Date: 25-Jul-2023 12:41

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230719.b\X071909.D
Lab Smp Id: VLCSW-230719 Client Smp ID: VLCSW-230719
Inj Date : 19-JUL-2023 12:52
Operator : PC Inst ID: voa6.i
Smp Info : VLCSW-230719;VLCSW-230719;3;;LCS
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230719.b\8260W.m
Meth Date : 25-Jul-2023 12:41 voa6.i Quant Type: ISTD
Cal Date : 14-JUL-2023 14:24 Cal File: X071408.D
Als bottle: 8 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.178	4.178	(1.000)	459752	50.0000	
135 1,4-Dioxane	88	5.606	5.598	(1.342)	19107	349.735	349.73(a)
140 1,3-Butadiene	54	1.167	1.168	(0.280)	136974	23.1859	23.18
25 Methacrylonitrile	41	3.833	3.825	(0.917)	116119	19.5673	19.56
12 Isobutyl Alcohol	43	4.676	4.680	(1.119)	360866	414.079	414.07
13 Acetonitrile	39	2.202	2.202	(0.527)	158859	246.409	246.40
14 Allyl Chloride	41	2.202	2.198	(0.527)	355221	23.5332	23.53
4 Propionitrile	54	3.660	3.657	(0.876)	171992	188.850	188.85(a)
72 trans-1,4-Dichloro-2-butene	53	8.890	8.886	(1.159)	39960	19.7242	19.72
194 Acetaldehyde	44	1.212	1.213	(0.290)	34436	70.2754	70.27(M)
23 Chloroprene	53	1.775	1.775	(0.425)	50035	24.2043	24.20(M)
130 Ethyl Acetate	43	3.660	3.660	(0.876)	151359	22.1653	22.16
40 Methyl Methacrylate	41	5.610	5.606	(1.343)	97444	17.5607	17.56
49 Ethyl Methacrylate	69	6.712	6.712	(1.352)	79218	16.6291	16.62
131 Methyl Acrylate	55	3.702	3.690	(0.886)	113683	18.1907	18.19
132 n-Butanol	56	5.268	5.261	(1.261)	52105	340.449	340.44(a)
136 n-Hexane	57	2.776	2.776	(0.664)	112558	26.7154	26.71
139 Diethyl ether	59	1.760	1.760	(0.421)	95230	22.2129	22.21
156 Diisopropyl ether	45	3.008	3.008	(0.720)	436590	23.0404	23.04
2 Dichlorodifluoromethane	85	0.976	0.976	(0.234)	93614	20.5642	20.56

3 Chloromethane	50	1.081	1.081 (0.259)	150353	21.6518	21.65
5 Vinyl Chloride	62	1.145	1.145 (0.274)	129830	21.8224	21.82

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230719.b\X071909.D Page 2
Report Date: 25-Jul-2023 12:41

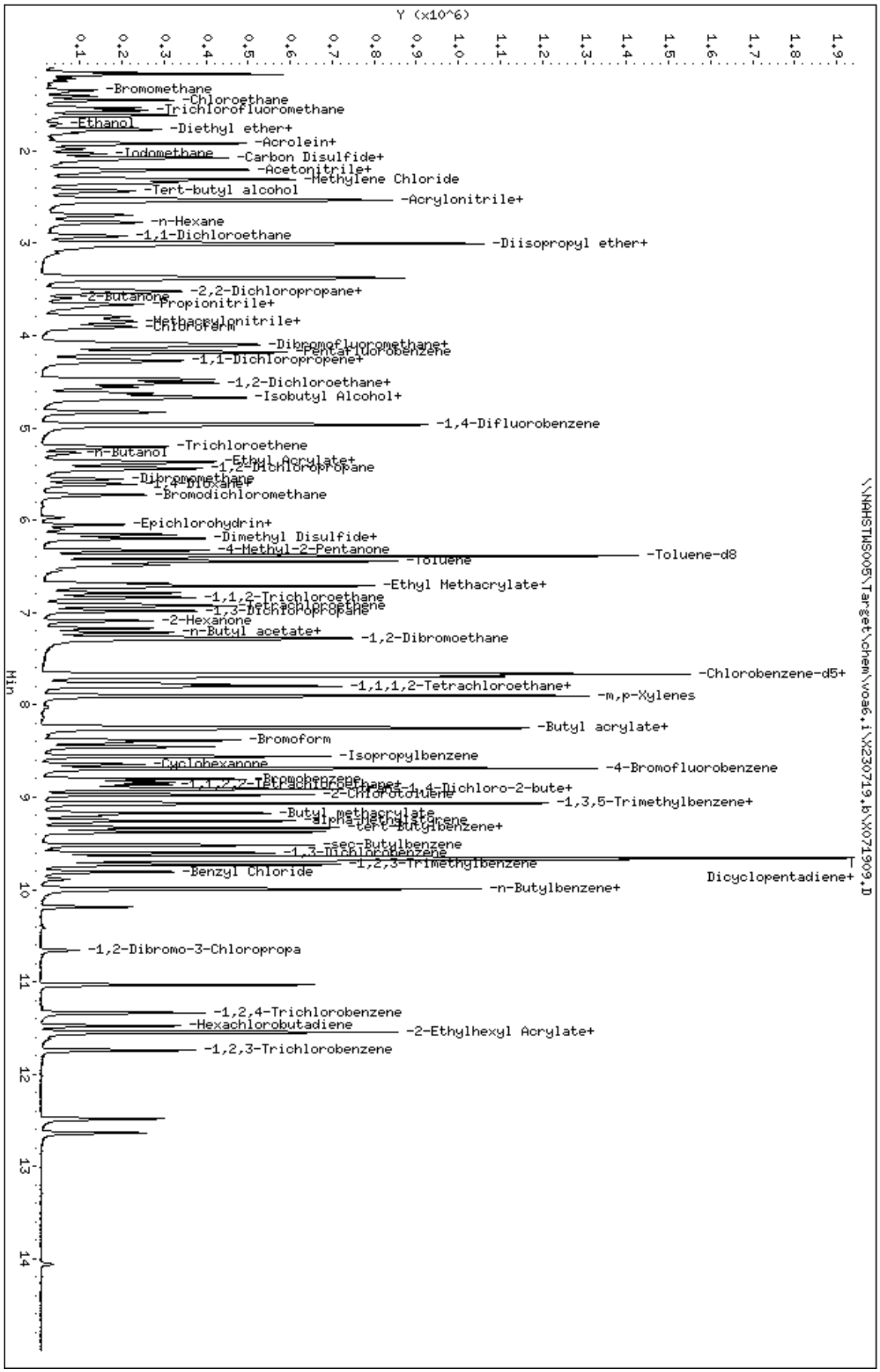
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
	6 Bromomethane	94	1.344	1.344	(0.322)	51363	20.8623	20.86
	7 Chloroethane	64	1.407	1.407	(0.337)	69598	20.4923	20.49
	8 Trichlorofluoromethane	101	1.565	1.565	(0.375)	139688	23.1685	23.16
	9 Acrolein	56	1.865	1.865	(0.446)	9297	53.9283	53.92
	10 Acetone	43	1.973	1.973	(0.472)	83959	43.5236	43.52
	11 1,1-Dichloroethene	96	1.917	1.917	(0.459)	72618	21.5600	21.55
	15 Iodomethane	142	2.033	2.030	(0.487)	136417	33.9016	33.90
	16 Acrylonitrile	53	2.536	2.536	(0.607)	102331	45.6757	45.67
	17 Methylene Chloride	84	2.303	2.303	(0.551)	89813	21.8239	21.82
	18 Methyl tert-butyl ether	73	2.536	2.540	(0.607)	262311	20.9401	20.94
	19 Carbon Disulfide	76	2.071	2.071	(0.496)	443833	41.9204	41.92
	20 trans-1,2-Dichloroethene	96	2.532	2.532	(0.606)	82282	21.1194	21.11
	21 Vinyl Acetate	43	3.004	3.001	(0.719)	766880	47.5943	47.59
	22 1,1-Dichloroethane	63	2.922	2.922	(0.699)	184174	21.5418	21.54
	24 2-Butanone	43	3.593	3.589	(0.860)	84315	34.4374	34.43
	26 2,2-Dichloropropane	77	3.510	3.507	(0.840)	134180	20.3414	20.34
	27 cis-1,2-Dichloroethene	96	3.533	3.525	(0.846)	98604	19.8669	19.86
	28 Chloroform	83	3.908	3.904	(0.935)	170215	19.4575	19.45
	29 Bromochloromethane	128	3.799	3.795	(0.909)	51844	18.6389	18.63
$	30 Dibromofluoromethane	113	4.099	4.095	(0.981)	225394	53.5444	53.54
	31 1,1,1-Trichloroethane	97	4.084	4.084	(0.978)	139867	20.7697	20.76
	32 1,1-Dichloropropene	75	4.279	4.279	(0.862)	116923	19.7066	19.70
	33 1,2-Dichloroethane	62	4.556	4.556	(0.918)	163511	20.4205	20.42
	34 Carbon Tetrachloride	117	4.268	4.264	(0.860)	113907	19.0563	19.05
$	35 1,2-Dichloroethane-d4	65	4.470	4.474	(1.070)	287239	54.5677	54.56
*	36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	727395	50.0000	
	37 Benzene	78	4.511	4.511	(0.909)	337379	19.3909	19.39
	38 Trichloroethene	130	5.205	5.205	(1.048)	96038	19.5145	19.51
	39 Bromodichloromethane	83	5.726	5.726	(1.153)	131396	19.7162	19.71
	41 2-Chloroethylvinyl ether	63	6.052	6.048	(1.219)	79511	39.0761	39.07
	42 1,2-Dichloropropane	63	5.437	5.433	(1.095)	114050	20.3854	20.38
	44 Dibromomethane	93	5.553	5.550	(1.119)	61992	19.5749	19.57
	45 4-Methyl-2-Pentanone	43	6.326	6.326	(0.825)	251138	38.3125	38.31
	46 cis-1,3-Dichloropropene	75	6.157	6.153	(1.240)	147744	19.3015	19.30
*	47 Chlorobenzene-d5	117	7.668	7.668	(1.000)	666124	50.0000	
$	48 Toluene-d8	98	6.382	6.382	(0.832)	801930	46.7580	46.75
	50 Toluene	91	6.442	6.446	(0.840)	372249	20.7600	20.75
	51 trans-1,3-Dichloropropene	75	6.682	6.682	(1.346)	124739	19.3318	19.33
	52 2-Hexanone	43	7.090	7.087	(0.925)	163364	37.9389	37.93
	53 1,1,2-Trichloroethane	83	6.839	6.835	(0.892)	75523	19.8547	19.85
	54 1,3-Dichloropropane	76	6.982	6.982	(0.911)	153295	19.7263	19.72
	55 Dibromochloromethane	129	7.173	7.173	(0.935)	112277	20.4463	20.44
	56 Tetrachloroethene	164	6.922	6.925	(0.903)	76655	20.6925	20.69
	57 1,2-Dibromoethane	107	7.259	7.259	(0.947)	86591	19.9211	19.92
	58 1-Chlorohexane	55	7.694	7.694	(1.550)	106036	18.1455	18.14
	59 Chlorobenzene	112	7.690	7.690	(1.003)	245993	19.6255	19.62
	60 1,1,1,2-Tetrachloroethane	131	7.773	7.773	(1.014)	99104	20.1962	20.19
	61 Ethylbenzene	106	7.799	7.795	(1.017)	124803	19.8560	19.85
	62 m,p-Xylenes	106	7.904	7.900	(1.031)	311917	39.5569	39.55
	63 o-Xylene	106	8.237	8.237	(1.074)	147431	19.7439	19.74
	64 Styrene	104	8.256	8.256	(1.077)	260313	19.9857	19.98
	66 Bromoform	173	8.410	8.406	(1.097)	67952	19.2869	19.28

67	Isopropylbenzene	105	8.560	8.560 (1.116)	370218	19.2883	19.28
68	1,1,2,2-Tetrachloroethane	83	8.837	8.837 (0.915)	117746	19.1076	19.10

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
$	69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	344540	51.9644	51.96
*	70 1,4-Dichlorobenzene-d4	152	9.662	9.658	(1.000)	366877	50.0000	
	71 1,2,3-Trichloropropane	75	8.863	8.863	(0.917)	90139	18.4334	18.43(M)
	73 n-Propylbenzene	91	8.908	8.908	(0.922)	430584	19.4218	19.42
	74 Bromobenzene	156	8.803	8.800	(0.911)	113566	19.7925	19.79
	75 1,3,5-Trimethylbenzene	105	9.066	9.062	(0.938)	295779	17.8089	17.80
	76 2-Chlorotoluene	91	8.972	8.972	(0.929)	274918	18.3824	18.38
	77 4-Chlorotoluene	91	9.070	9.066	(0.939)	318141	19.3586	19.35
	78 tert-Butylbenzene	119	9.332	9.332	(0.966)	262935	18.4608	18.46
	79 1,2,4-Trimethylbenzene	105	9.377	9.377	(0.971)	297518	17.8635	17.86
	81 sec-Butylbenzene	105	9.519	9.516	(0.985)	354997	18.6990	18.69
	82 p-Isopropyltoluene	119	9.647	9.647	(0.998)	312022	17.9920	17.99
	83 1,3-Dichlorobenzene	146	9.602	9.602	(0.994)	189360	18.9442	18.94
	84 1,4-Dichlorobenzene	146	9.677	9.681	(1.002)	197232	17.9965	17.99
	87 n-Butylbenzene	91	9.992	9.992	(1.034)	264036	18.1786	18.17
	88 1,2-Dichlorobenzene	146	9.992	9.992	(1.034)	186924	19.0214	19.02
	89 1,2-Dibromo-3-Chloropropane	155	10.659	10.652	(1.103)	17856	18.3325	18.33
	90 1,2,4-Trichlorobenzene	180	11.337	11.338	(1.173)	107684	15.9544	15.95
	91 Hexachlorobutadiene	225	11.476	11.476	(1.188)	52378	18.4026	18.40
	92 Naphthalene	128	11.540	11.540	(1.194)	264810	15.8517	15.85
	93 1,2,3-Trichlorobenzene	180	11.742	11.739	(1.215)	100322	15.8933	15.89
M	94 1,2-Dichloroethylene (total)	96				180886	40.9863	40.98
M	95 Xylenes (total)	106				459348	59.3008	59.30
	141 Cyclohexane	56	4.121	4.125	(0.987)	165188	20.7284	20.72
	138 Freon TF	101	1.917	1.921	(0.459)	70766	26.4621	26.46
	147 Methylcyclohexane	55	5.388	5.381	(1.085)	301909	19.6641	19.66
	146 Methyl Acetate	43	2.232	2.232	(0.534)	102054	24.9418	24.94
	148 Tert-Butyl alcohol	59	2.434	2.435	(0.583)	237109	408.619	408.61
	149 Isopropyl Alcohol	45	2.097	2.097	(0.502)	162471	451.233	451.23

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.



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Date : 19-JUL-2023 12:52
Client ID: VLCSW-230719
Sample Info: VLCSW-230719;VLCSW-230719;3;;LCS
Purge Volume: 5.0
Column phase: DB624

Instrument: voa6,i
Operator: PC
Column diameter: 0.18

Data File : \\NAHSTWS005\Target\chem\voa6.i\X230719.b\X071909.D
Inj Date : 19-JUL-2023 12:52
InstruID : voa6.i
LabSampID : VLCSW-230719

1,2,3-Trichloropropane (96-18-4)

Reason Code:

BEFORE
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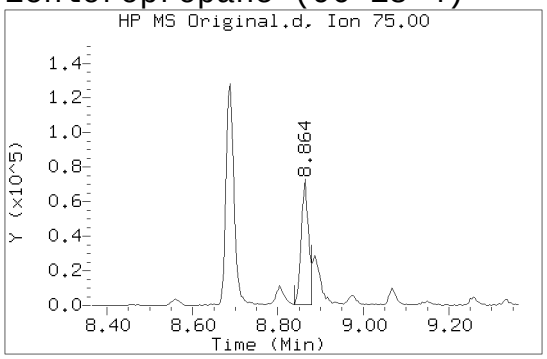
75
AREA
90139
HEIGHT
72722
25-Jul-2023
12:41
linh
pham



AFTER
MASS
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90139
HEIGHT
72722
25-Jul-2023
12:41
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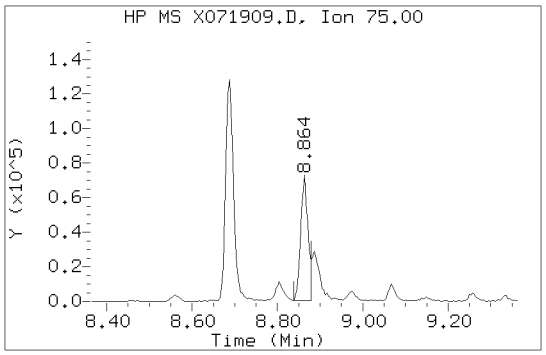

BEFORE
MASS
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HEIGHT
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25-Jul-2023
12:41
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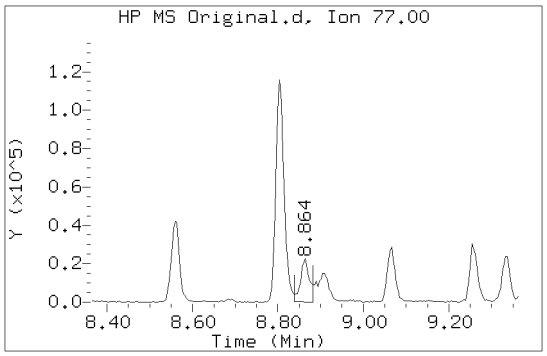
pham



AFTER
MASS
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34253
HEIGHT
22477
25-Jul-2023
12:41
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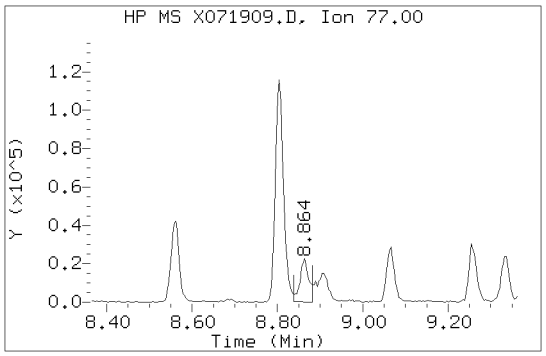

Chloroprene (126-99-8)

Reason Code:

BEFORE
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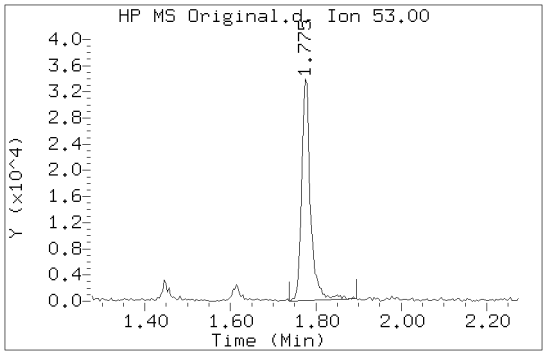

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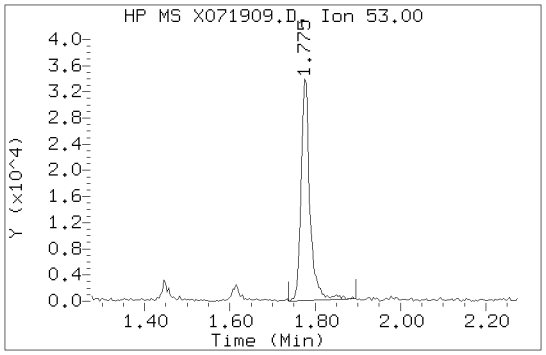

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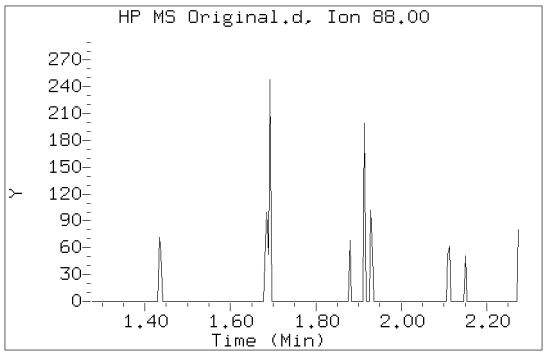

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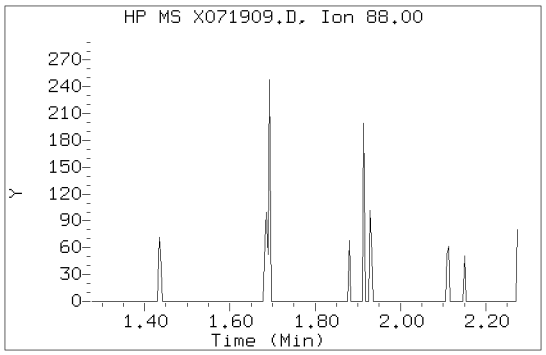

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InstruID : voa6.i
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Acetaldehyde (75-07-0)

Reason Code:

BEFORE

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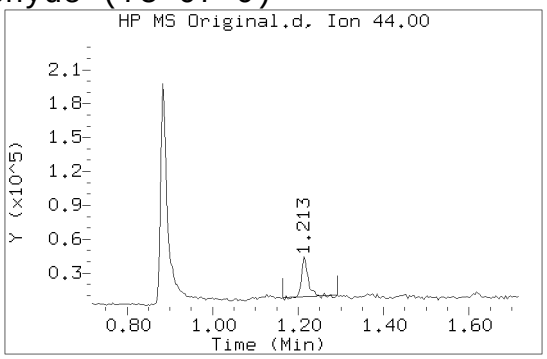

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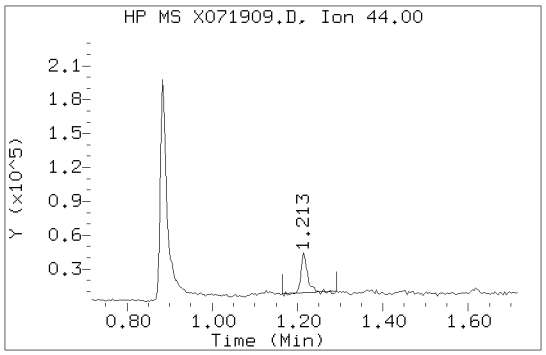

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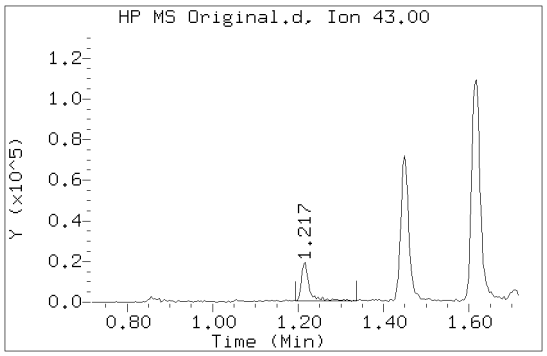

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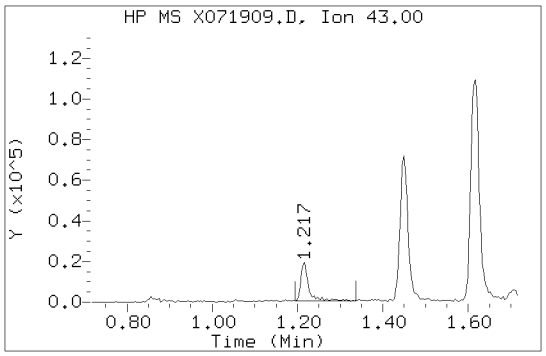

BEFORE

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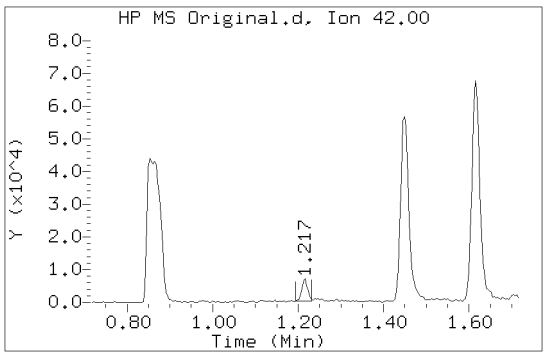

AFTER

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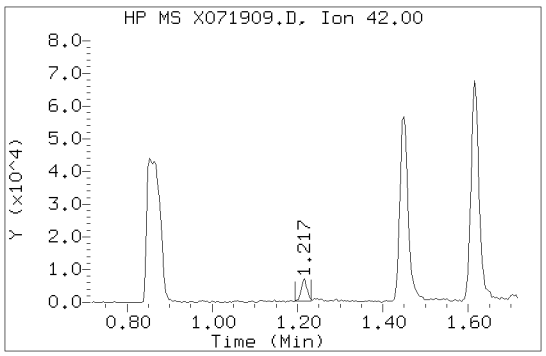

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Report Date: 25-Jul-2023 12:41

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230719.b\X071910.D
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Operator : PC Inst ID: voa6.i
Smp Info : HS23070791-03MS;HS23070791-03MS;3;;MS
Misc Info : V6;WATER;0;1;
Comment   :
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Cal Date : 14-JUL-2023 14:24 Cal File: X071408.D
Als bottle: 9 QC Sample: MS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.181	4.178	(1.000)	477528	50.0000	
135 1,4-Dioxane	88	5.609	5.598	(1.342)	19836	349.563	349.56(a)
140 1,3-Butadiene	54	1.167	1.168	(0.279)	147396	24.0213	24.02
25 Methacrylonitrile	41	3.829	3.825	(0.916)	116420	18.8877	18.88
12 Isobutyl Alcohol	43	4.680	4.680	(1.119)	366663	405.069	405.06
13 Acetonitrile	39	2.202	2.202	(0.527)	173864	259.644	259.64
14 Allyl Chloride	41	2.202	2.198	(0.527)	387170	24.6950	24.69
4 Propionitrile	54	3.664	3.657	(0.876)	180250	190.550	190.55(a)
72 trans-1,4-Dichloro-2-butene	53	8.889	8.886	(1.159)	42847	22.4243	22.42
194 Acetaldehyde	44	1.216	1.213	(0.291)	93648	220.668	220.66
23 Chloroprene	53	1.778	1.775	(0.425)	59176	27.5606	27.56(M)
130 Ethyl Acetate	43	3.668	3.660	(0.877)	138371	19.5090	19.50
40 Methyl Methacrylate	41	5.609	5.606	(1.342)	117679	20.4179	20.41
49 Ethyl Methacrylate	69	6.715	6.712	(1.353)	81061	17.4683	17.46
131 Methyl Acrylate	55	3.701	3.690	(0.885)	115974	17.8665	17.86
132 n-Butanol	56	5.268	5.261	(1.260)	48568	305.525	305.52(a)
136 n-Hexane	57	2.772	2.776	(0.663)	171276	38.1515	38.15
139 Diethyl ether	59	1.760	1.760	(0.421)	94500	21.2221	21.22
156 Diisopropyl ether	45	3.004	3.008	(0.719)	442631	22.4897	22.48
2 Dichlorodifluoromethane	85	0.976	0.976	(0.234)	78797	16.8728	16.87

3 Chloromethane	50	1.081	1.081 (0.259)	147551	20.4573	20.45
5 Vinyl Chloride	62	1.148	1.145 (0.275)	144377	23.3641	23.36

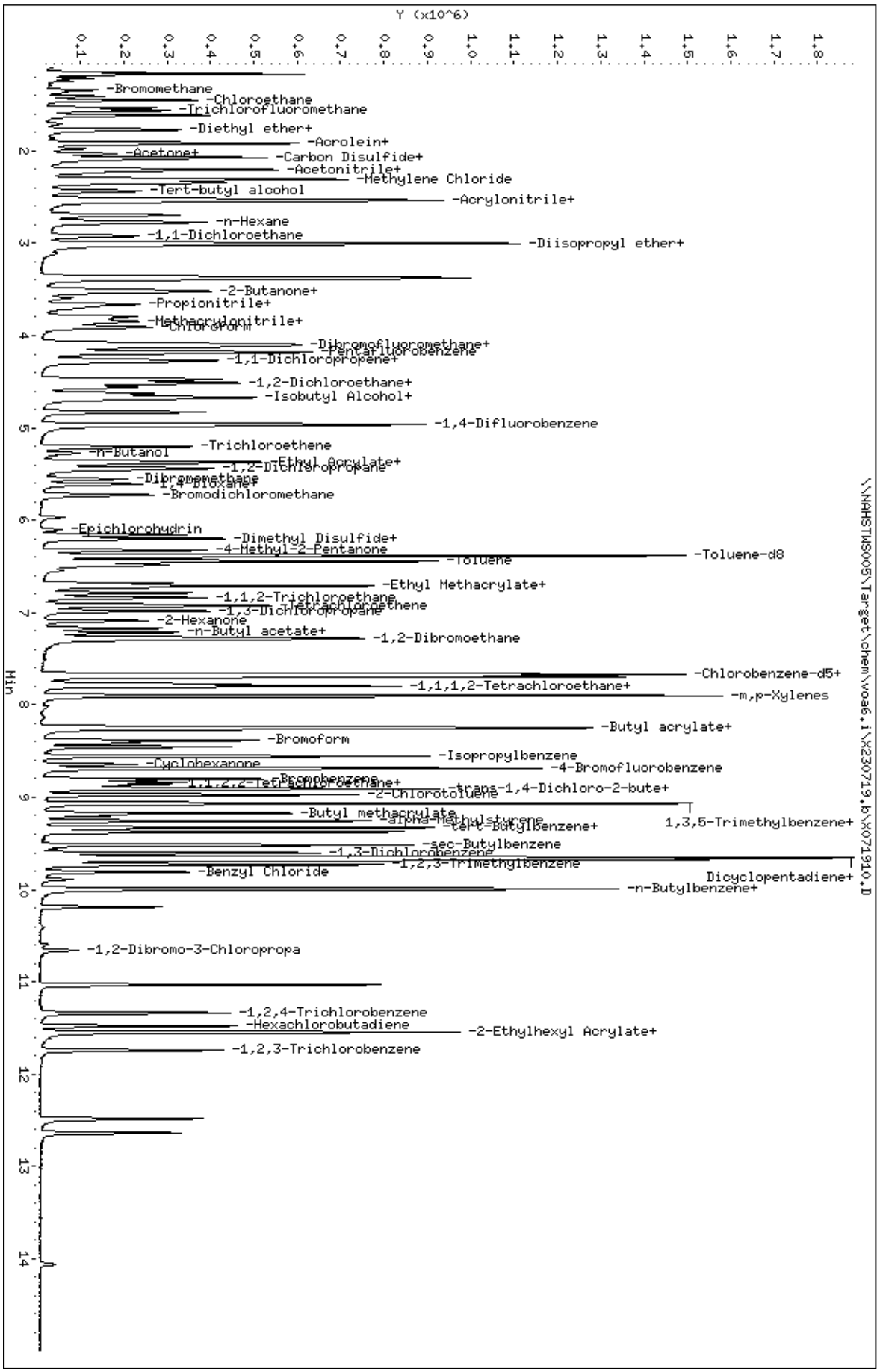
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
	6 Bromomethane	94	1.343	1.344	(0.321)	54305	21.2361	21.23
	7 Chloroethane	64	1.407	1.407	(0.337)	77116	21.8606	21.86
	8 Trichlorofluoromethane	101	1.565	1.565	(0.374)	164208	26.2215	26.22
	9 Acrolein	56	1.864	1.865	(0.446)	10546	58.7921	58.79
	10 Acetone	43	1.977	1.973	(0.473)	80363	39.7250	39.72
	11 1,1-Dichloroethene	96	1.917	1.917	(0.459)	84416	24.1298	24.12
	15 Iodomethane	142	2.033	2.030	(0.486)	157809	37.2939	37.29
	16 Acrylonitrile	53	2.539	2.536	(0.607)	106867	45.9247	45.92
	17 Methylene Chloride	84	2.303	2.303	(0.551)	90328	21.0873	21.08
	18 Methyl tert-butyl ether	73	2.539	2.540	(0.607)	268398	20.6284	20.62
	19 Carbon Disulfide	76	2.074	2.071	(0.496)	525680	47.8027	47.80
	20 trans-1,2-Dichloroethene	96	2.532	2.532	(0.606)	90866	22.4545	22.45
	21 Vinyl Acetate	43	3.000	3.001	(0.718)	769121	45.9565	45.95
	22 1,1-Dichloroethane	63	2.922	2.922	(0.699)	203594	22.9268	22.92
	24 2-Butanone	43	3.589	3.589	(0.858)	80264	31.5625	31.56
	26 2,2-Dichloropropane	77	3.506	3.507	(0.839)	157196	22.9169	22.91
	27 cis-1,2-Dichloroethene	96	3.529	3.525	(0.844)	108481	21.0434	21.04
	28 Chloroform	83	3.904	3.904	(0.934)	195167	21.4793	21.47
	29 Bromochloromethane	128	3.799	3.795	(0.909)	56581	19.5847	19.58
$	30 Dibromofluoromethane	113	4.099	4.095	(0.980)	232302	53.1253	53.12
	31 1,1,1-Trichloroethane	97	4.080	4.084	(0.976)	159774	22.8426	22.84
	32 1,1-Dichloropropene	75	4.282	4.279	(0.863)	141232	24.4365	24.43
	33 1,2-Dichloroethane	62	4.560	4.556	(0.918)	167391	21.4608	21.46
	34 Carbon Tetrachloride	117	4.264	4.264	(0.859)	143911	24.7159	24.71
$	35 1,2-Dichloroethane-d4	65	4.474	4.474	(1.070)	285348	52.1634	52.16
*	36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	708560	50.0000	
	37 Benzene	78	4.515	4.511	(0.909)	380664	22.4603	22.46
	38 Trichloroethene	130	5.205	5.205	(1.048)	112694	23.5077	23.50
	39 Bromodichloromethane	83	5.729	5.726	(1.154)	139266	21.4526	21.45
	42 1,2-Dichloropropane	63	5.437	5.433	(1.095)	121091	22.2193	22.21
	44 Dibromomethane	93	5.553	5.550	(1.119)	63285	20.5144	20.51
	45 4-Methyl-2-Pentanone	43	6.325	6.326	(0.825)	241631	39.0846	39.08
	46 cis-1,3-Dichloropropene	75	6.157	6.153	(1.240)	156843	21.0349	21.03
*	47 Chlorobenzene-d5	117	7.667	7.668	(1.000)	628247	50.0000	
$	48 Toluene-d8	98	6.385	6.382	(0.833)	824051	50.9446	50.94
	50 Toluene	91	6.445	6.446	(0.841)	408496	24.1549	24.15
	51 trans-1,3-Dichloropropene	75	6.681	6.682	(1.346)	131045	20.8490	20.84
	52 2-Hexanone	43	7.086	7.087	(0.924)	153484	37.7934	37.79
	53 1,1,2-Trichloroethane	83	6.839	6.835	(0.892)	77865	21.7045	21.70
	54 1,3-Dichloropropane	76	6.981	6.982	(0.911)	155541	21.2221	21.22
	55 Dibromochloromethane	129	7.173	7.173	(0.935)	116019	22.4015	22.40
	56 Tetrachloroethene	164	6.921	6.925	(0.903)	90496	25.9016	25.90
	57 1,2-Dibromoethane	107	7.259	7.259	(0.947)	86290	21.0487	21.04
	58 1-Chlorohexane	55	7.694	7.694	(1.550)	150964	26.5206	26.52
	59 Chlorobenzene	112	7.690	7.690	(1.003)	277213	23.4497	23.44
	60 1,1,1,2-Tetrachloroethane	131	7.772	7.773	(1.014)	107863	23.3065	23.30
	61 Ethylbenzene	106	7.799	7.795	(1.017)	143659	24.2339	24.23
	62 m,p-Xylenes	106	7.904	7.900	(1.031)	362779	48.7809	48.78
	63 o-Xylene	106	8.237	8.237	(1.074)	173123	24.5824	24.58
	64 Styrene	104	8.256	8.256	(1.077)	288967	23.5232	23.52
	66 Bromoform	173	8.410	8.406	(1.097)	70016	21.0708	21.07
	67 Isopropylbenzene	105	8.560	8.560	(1.116)	462568	25.5528	25.55

	68	1,1,2,2-Tetrachloroethane	83	8.837	8.837 (0.915)	114365	19.8470	19.84
$	69	4-Bromofluorobenzene	95	8.687	8.687 (1.133)	308828	49.3652	49.36

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
*	70 1,4-Dichlorobenzene-d4	152	9.662	9.658	(1.000)	343067	50.0000	
	71 1,2,3-Trichloropropane	75	8.859	8.863	(0.917)	94248	20.6114	20.61(M)
	73 n-Propylbenzene	91	8.908	8.908	(0.922)	538730	25.9863	25.98
	74 Bromobenzene	156	8.803	8.800	(0.911)	123428	23.0042	23.00
	75 1,3,5-Trimethylbenzene	105	9.066	9.062	(0.938)	370082	23.8292	23.82
	76 2-Chlorotoluene	91	8.972	8.972	(0.929)	329909	23.5904	23.59
	77 4-Chlorotoluene	91	9.069	9.066	(0.939)	378475	24.6282	24.62
	78 tert-Butylbenzene	119	9.332	9.332	(0.966)	338216	25.3943	25.39
	79 1,2,4-Trimethylbenzene	105	9.377	9.377	(0.971)	359593	23.0890	23.08
	81 sec-Butylbenzene	105	9.519	9.516	(0.985)	482613	27.1853	27.18
	82 p-Isopropyltoluene	119	9.647	9.647	(0.998)	408225	25.1730	25.17
	83 1,3-Dichlorobenzene	146	9.602	9.602	(0.994)	219432	23.4762	23.47
	84 1,4-Dichlorobenzene	146	9.680	9.681	(1.002)	229536	22.3977	22.39
	87 n-Butylbenzene	91	9.992	9.992	(1.034)	350337	25.7944	25.79
	88 1,2-Dichlorobenzene	146	9.992	9.992	(1.034)	214840	23.3794	23.37
	89 1,2-Dibromo-3-Chloropropane	155	10.651	10.652	(1.102)	18843	20.5487	20.54
	90 1,2,4-Trichlorobenzene	180	11.337	11.338	(1.173)	121793	19.2971	19.29
	91 Hexachlorobutadiene	225	11.476	11.476	(1.188)	71931	25.9230	25.92
	92 Naphthalene	128	11.543	11.540	(1.195)	296472	18.9787	18.97
	93 1,2,3-Trichlorobenzene	180	11.738	11.739	(1.215)	116877	19.8010	19.80
M	94 1,2-Dichloroethylene (total)	96				199347	43.4978	43.49
M	95 Xylenes (total)	106				535902	73.3633	73.36
	141 Cyclohexane	56	4.125	4.125	(0.987)	237178	28.6540	28.65
	138 Freon TF	101	1.921	1.921	(0.459)	92120	32.7580	32.75
	147 Methylcyclohexane	55	5.384	5.381	(1.085)	353584	23.6420	23.64
	146 Methyl Acetate	43	2.232	2.232	(0.534)	102893	24.2107	24.21
	148 Tert-Butyl alcohol	59	2.434	2.435	(0.582)	237816	394.581	394.58
	149 Isopropyl Alcohol	45	2.101	2.097	(0.502)	152363	407.408	407.40

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.



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Purge Volume: 5.0
Column phase: DB624

Instrument: voa6.i
Operator: PC
Column diameter: 0.18

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Inj Date : 19-JUL-2023 13:12
InstruID : voa6.i
LabSampID : HS23070791-03MS

1,2,3-Trichloropropane (96-18-4)

Reason Code:

BEFORE

MASS
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AREA
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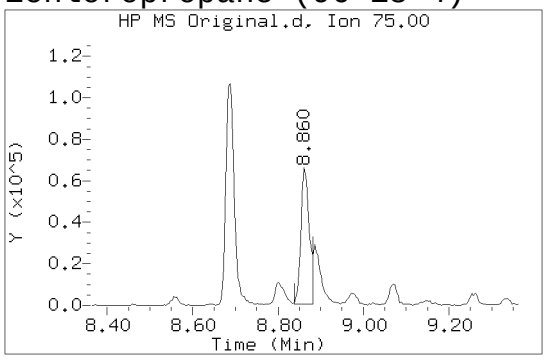
65787
25-Jul-2023
12:41
linh
pham



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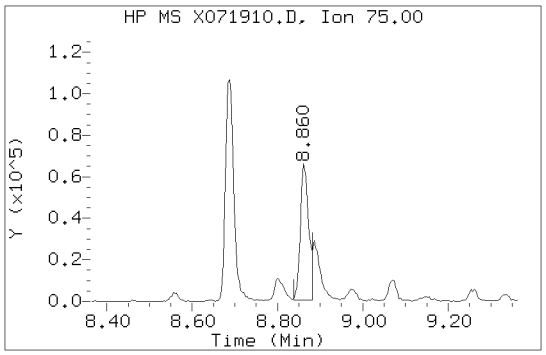

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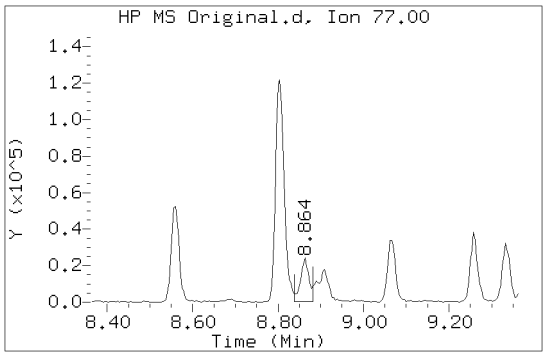

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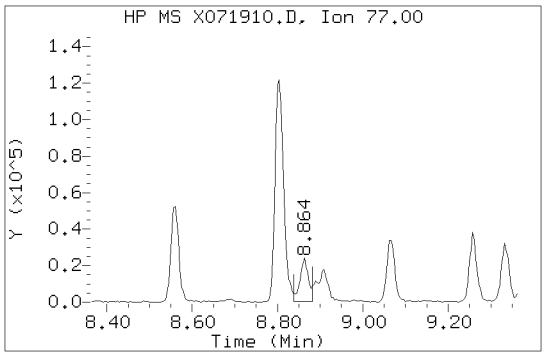

Chloroprene (126-99-8)

Reason Code:

BEFORE

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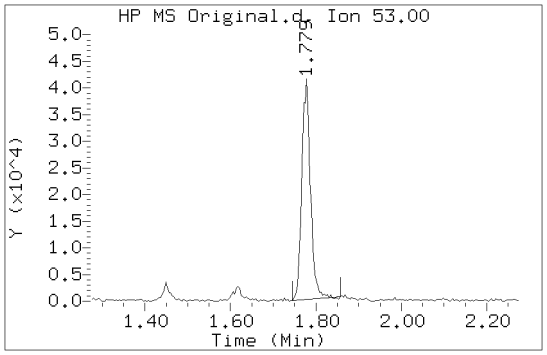

AFTER

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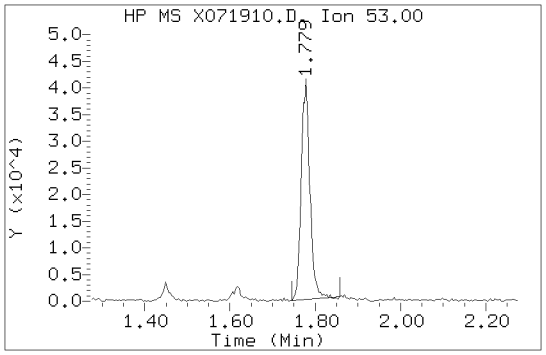

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25-Jul-2023
12:41
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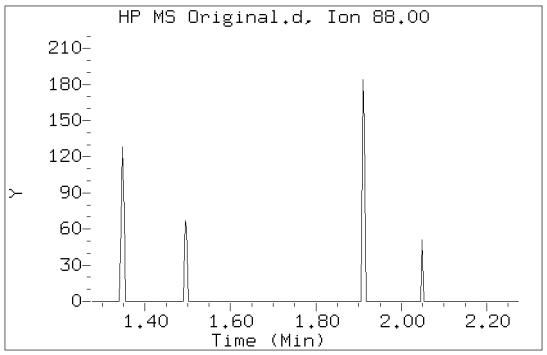

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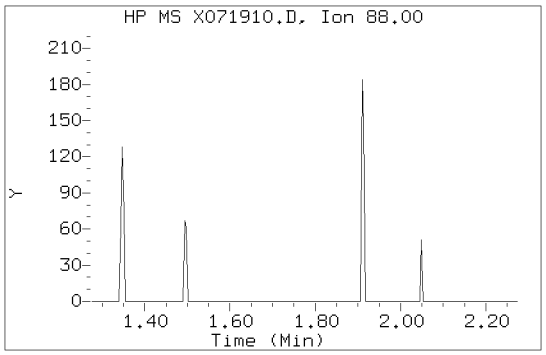

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230719.b\X071911.D Page 1
Report Date: 25-Jul-2023 12:41

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230719.b\X071911.D
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Inj Date : 19-JUL-2023 13:33
Operator : PC Inst ID: voa6.i
Smp Info : HS23070791-03MSD;HS23070791-03MSD;3;;MSD
Misc Info : V6;WATER;0;1;
Comment   :
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Meth Date : 25-Jul-2023 12:41 voa6.i Quant Type: ISTD
Cal Date : 14-JUL-2023 14:24 Cal File: X071408.D
Als bottle: 9 QC Sample: MSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.178	4.178	(1.000)	470925	50.0000	
135 1,4-Dioxane	88	5.602	5.598	(1.341)	22709	405.804	405.80(a)
140 1,3-Butadiene	54	1.167	1.168	(0.280)	149059	24.6329	24.63
25 Methacrylonitrile	41	3.829	3.825	(0.917)	127639	20.9982	20.99
12 Isobutyl Alcohol	43	4.680	4.680	(1.120)	373911	418.868	418.86
13 Acetonitrile	39	2.202	2.202	(0.527)	176719	267.608	267.60
14 Allyl Chloride	41	2.198	2.198	(0.526)	400978	25.9343	25.93
4 Propionitrile	54	3.664	3.657	(0.877)	185406	198.749	198.74(a)
72 trans-1,4-Dichloro-2-butene	53	8.890	8.886	(1.159)	45504	23.9567	23.95
194 Acetaldehyde	44	1.212	1.213	(0.290)	62838	142.903	142.90(M)
23 Chloroprene	53	1.775	1.775	(0.425)	62802	29.6595	29.65(M)
130 Ethyl Acetate	43	3.664	3.660	(0.877)	156054	22.3106	22.31
40 Methyl Methacrylate	41	5.610	5.606	(1.343)	120056	21.1224	21.12
49 Ethyl Methacrylate	69	6.715	6.712	(1.353)	89681	19.8229	19.82
131 Methyl Acrylate	55	3.694	3.690	(0.884)	134154	20.9571	20.95
132 n-Butanol	56	5.265	5.261	(1.260)	54806	349.600	349.60(a)
136 n-Hexane	57	2.772	2.776	(0.664)	170229	38.4222	38.42
139 Diethyl ether	59	1.760	1.760	(0.421)	99498	22.6578	22.65
156 Diisopropyl ether	45	3.004	3.008	(0.719)	451827	23.2788	23.27
2 Dichlorodifluoromethane	85	0.976	0.976	(0.234)	81443	17.6312	17.63

3 Chloromethane	50	1.081	1.081 (0.259)	151892	21.3545	21.35
5 Vinyl Chloride	62	1.145	1.145 (0.274)	146925	24.1098	24.10

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230719.b\X071911.D Page 2
Report Date: 25-Jul-2023 12:41

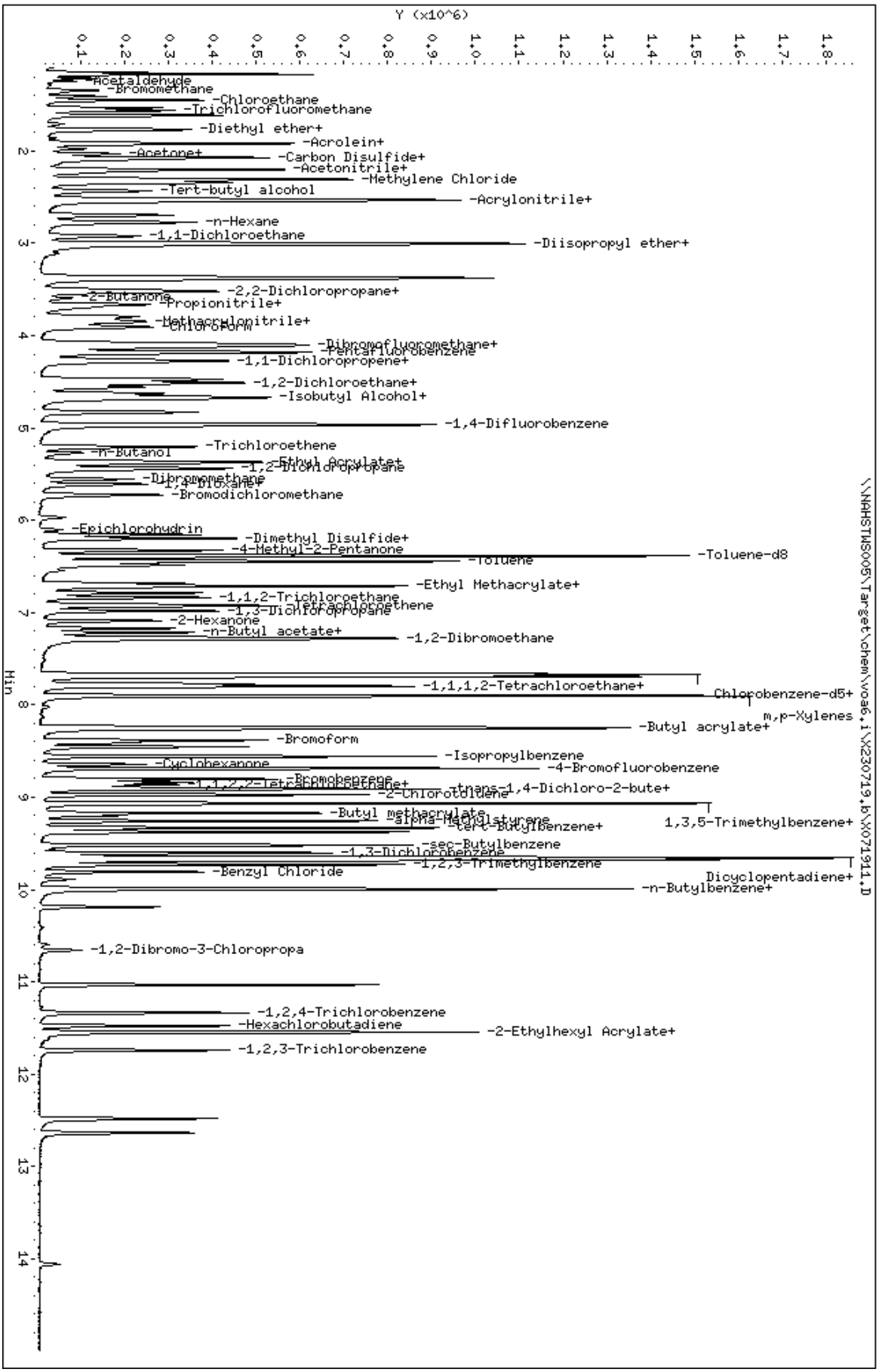
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
	6 Bromomethane	94	1.344	1.344	(0.322)	54888	21.7651	21.76
	7 Chloroethane	64	1.407	1.407	(0.337)	78882	22.6748	22.67
	8 Trichlorofluoromethane	101	1.565	1.565	(0.375)	167502	27.1225	27.12
	9 Acrolein	56	1.865	1.865	(0.446)	12511	70.4955	70.49
	10 Acetone	43	1.977	1.973	(0.473)	81568	41.0289	41.02
	11 1,1-Dichloroethene	96	1.917	1.917	(0.459)	85086	24.6623	24.66
	15 Iodomethane	142	2.033	2.030	(0.487)	166042	39.5133	39.51
	16 Acrylonitrile	53	2.536	2.536	(0.607)	110631	48.2089	48.20
	17 Methylene Chloride	84	2.303	2.303	(0.551)	96753	23.0254	23.02
	18 Methyl tert-butyl ether	73	2.536	2.540	(0.607)	287144	22.3786	22.37
	19 Carbon Disulfide	76	2.075	2.071	(0.497)	533398	49.1846	49.18
	20 trans-1,2-Dichloroethene	96	2.532	2.532	(0.606)	94902	23.7807	23.78
	21 Vinyl Acetate	43	3.004	3.001	(0.719)	747781	45.3079	45.30
	22 1,1-Dichloroethane	63	2.922	2.922	(0.699)	207496	23.6939	23.69
	24 2-Butanone	43	3.593	3.589	(0.860)	88348	35.2285	35.22
	26 2,2-Dichloropropane	77	3.510	3.507	(0.840)	164908	24.3650	24.36
	27 cis-1,2-Dichloroethene	96	3.525	3.525	(0.844)	108206	21.2843	21.28
	28 Chloroform	83	3.908	3.904	(0.935)	200824	22.4118	22.41
	29 Bromochloromethane	128	3.795	3.795	(0.908)	60566	21.2580	21.25
$	30 Dibromofluoromethane	113	4.099	4.095	(0.981)	231917	53.7903	53.79
	31 1,1,1-Trichloroethane	97	4.084	4.084	(0.978)	167766	24.3215	24.32
	32 1,1-Dichloropropene	75	4.275	4.279	(0.861)	146938	26.0777	26.07
	33 1,2-Dichloroethane	62	4.556	4.556	(0.918)	178607	23.4877	23.48
	34 Carbon Tetrachloride	117	4.260	4.264	(0.858)	147019	25.8991	25.89
$	35 1,2-Dichloroethane-d4	65	4.470	4.474	(1.070)	299209	55.5036	55.50
*	36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	690793	50.0000	
	37 Benzene	78	4.511	4.511	(0.909)	378731	22.9210	22.92
	38 Trichloroethene	130	5.208	5.205	(1.049)	114658	24.5325	24.53
	39 Bromodichloromethane	83	5.726	5.726	(1.153)	146566	23.1577	23.15
	42 1,2-Dichloropropane	63	5.437	5.433	(1.095)	126638	23.8348	23.83
	44 Dibromomethane	93	5.553	5.550	(1.119)	68094	22.6410	22.64
	45 4-Methyl-2-Pentanone	43	6.326	6.326	(0.825)	270702	44.0476	44.04
	46 cis-1,3-Dichloropropene	75	6.157	6.153	(1.240)	163710	22.5206	22.52
*	47 Chlorobenzene-d5	117	7.668	7.668	(1.000)	624529	50.0000	
$	48 Toluene-d8	98	6.386	6.382	(0.833)	820162	51.0060	51.00
	50 Toluene	91	6.446	6.446	(0.841)	420779	25.0294	25.02
	51 trans-1,3-Dichloropropene	75	6.682	6.682	(1.346)	132787	21.6695	21.66
	52 2-Hexanone	43	7.087	7.087	(0.924)	170019	42.1142	42.11
	53 1,1,2-Trichloroethane	83	6.839	6.835	(0.892)	81268	22.7880	22.78
	54 1,3-Dichloropropane	76	6.982	6.982	(0.911)	165352	22.6950	22.69
	55 Dibromochloromethane	129	7.173	7.173	(0.935)	121158	23.5331	23.53
	56 Tetrachloroethene	164	6.925	6.925	(0.903)	93594	26.9478	26.94
	57 1,2-Dibromoethane	107	7.259	7.259	(0.947)	93012	22.8235	22.82
	58 1-Chlorohexane	55	7.694	7.694	(1.550)	151032	27.2149	27.21
	59 Chlorobenzene	112	7.690	7.690	(1.003)	282250	24.0179	24.01
	60 1,1,1,2-Tetrachloroethane	131	7.773	7.773	(1.014)	109354	23.7693	23.76
	61 Ethylbenzene	106	7.799	7.795	(1.017)	146225	24.8136	24.81
	62 m,p-Xylenes	106	7.900	7.900	(1.030)	381067	51.5450	51.54
	63 o-Xylene	106	8.241	8.237	(1.075)	176695	25.2390	25.23
	64 Styrene	104	8.260	8.256	(1.077)	295972	24.2369	24.23
	66 Bromoform	173	8.410	8.406	(1.097)	75515	22.8610	22.86
	67 Isopropylbenzene	105	8.560	8.560	(1.116)	476294	26.4676	26.46

	68	1,1,2,2-Tetrachloroethane	83	8.837	8.837 (0.915)	126371	23.0961	23.09
$	69	4-Bromofluorobenzene	95	8.687	8.687 (1.133)	296001	47.5812	47.58

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
*	70 1,4-Dichlorobenzene-d4	152	9.658	9.658	(1.000)	325753	50.0000	
	71 1,2,3-Trichloropropane	75	8.863	8.863	(0.918)	89787	20.6794	20.67
	73 n-Propylbenzene	91	8.908	8.908	(0.922)	543004	27.5846	27.58
	74 Bromobenzene	156	8.803	8.800	(0.912)	126221	24.7751	24.77
	75 1,3,5-Trimethylbenzene	105	9.066	9.062	(0.939)	380276	25.7870	25.78
	76 2-Chlorotoluene	91	8.972	8.972	(0.929)	337050	25.3820	25.38
	77 4-Chlorotoluene	91	9.070	9.066	(0.939)	390616	26.7692	26.76
	78 tert-Butylbenzene	119	9.332	9.332	(0.966)	348830	27.5834	27.58
	79 1,2,4-Trimethylbenzene	105	9.377	9.377	(0.971)	368613	24.9262	24.92
	81 sec-Butylbenzene	105	9.519	9.516	(0.986)	475075	28.1831	28.18
	82 p-Isopropyltoluene	119	9.647	9.647	(0.999)	413952	26.8829	26.88
	83 1,3-Dichlorobenzene	146	9.602	9.602	(0.994)	222070	25.0212	25.02
	84 1,4-Dichlorobenzene	146	9.681	9.681	(1.002)	237062	24.3616	24.36
	87 n-Butylbenzene	91	9.992	9.992	(1.035)	354456	27.4848	27.48
	88 1,2-Dichlorobenzene	146	9.992	9.992	(1.035)	217318	24.9060	24.90
	89 1,2-Dibromo-3-Chloropropane	155	10.655	10.652	(1.103)	20225	23.0862	23.08
	90 1,2,4-Trichlorobenzene	180	11.338	11.338	(1.174)	133222	22.2299	22.22
	91 Hexachlorobutadiene	225	11.476	11.476	(1.188)	68913	26.1343	26.13
	92 Naphthalene	128	11.540	11.540	(1.195)	310231	20.9150	20.91
	93 1,2,3-Trichlorobenzene	180	11.742	11.739	(1.216)	123904	22.1072	22.10
M	94 1,2-Dichloroethylene (total)	96				203108	45.0650	45.06
M	95 Xylenes (total)	106				557762	76.7840	76.78
	141 Cyclohexane	56	4.121	4.125	(0.987)	239020	29.2815	29.28
	138 Freon TF	101	1.917	1.921	(0.459)	92069	33.1687	33.16
	147 Methylcyclohexane	55	5.385	5.381	(1.085)	368736	25.2893	25.28
	146 Methyl Acetate	43	2.236	2.232	(0.535)	103683	24.7387	24.73
	148 Tert-Butyl alcohol	59	2.434	2.435	(0.583)	257340	432.962	432.96
	149 Isopropyl Alcohol	45	2.097	2.097	(0.502)	167306	453.637	453.63

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.



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Purge Volume: 5.0
Column phase: DB624

Instrument: voa6_i
Operator: PC
Column diameter: 0.18

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Inj Date : 19-JUL-2023 13:33
InstruID : voa6.i
LabSampID : HS23070791-03MSD

Chloroprene (126-99-8)

BEFORE

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25-Jul-2023
12:41
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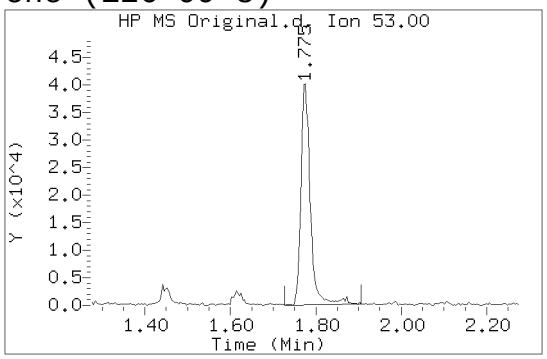

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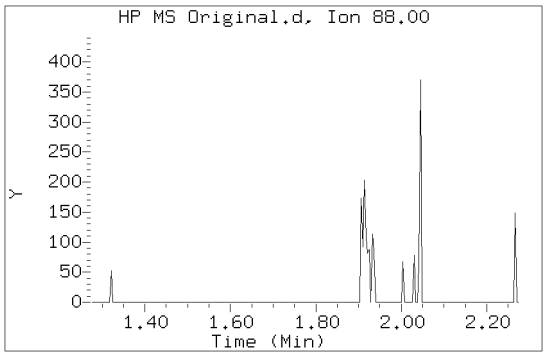

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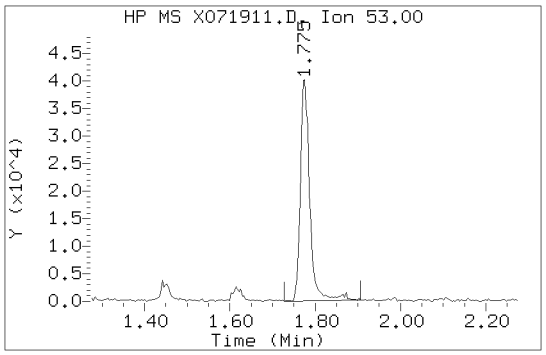

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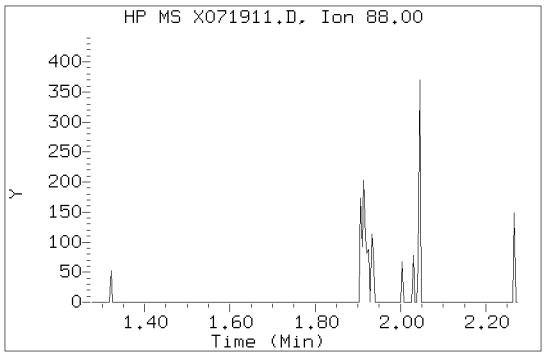

Acetaldehyde (75-07-0)

BEFORE

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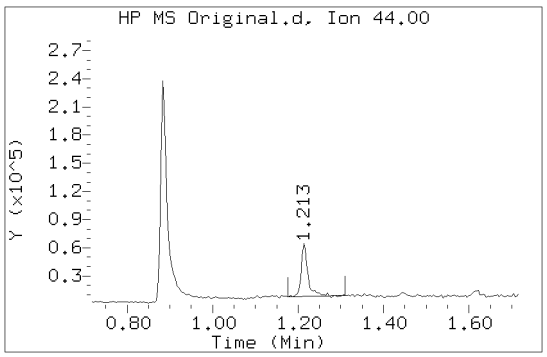

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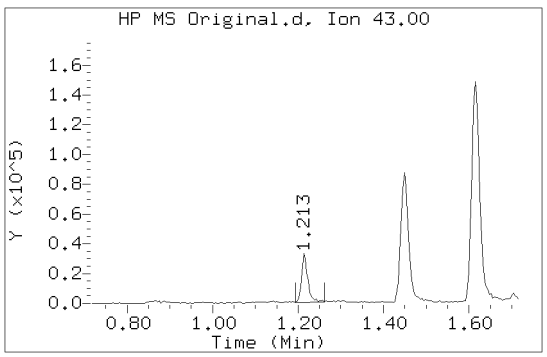

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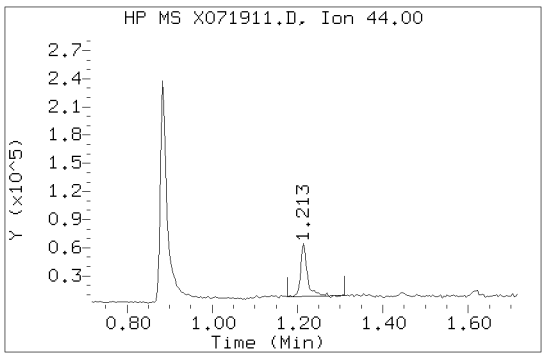

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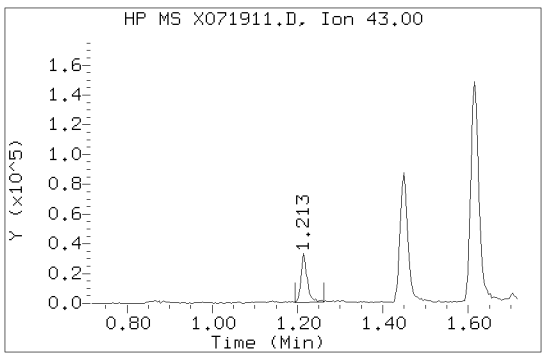

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Inj Date : 19-JUL-2023 13:33
InstruID : voa6.i
LabSampID : HS23070791-03MSD

Acetaldehyde (75-07-0)

Reason Code:

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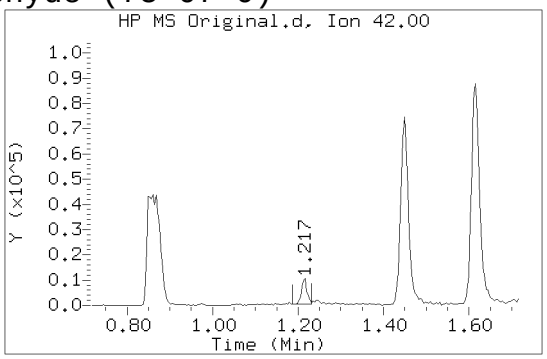

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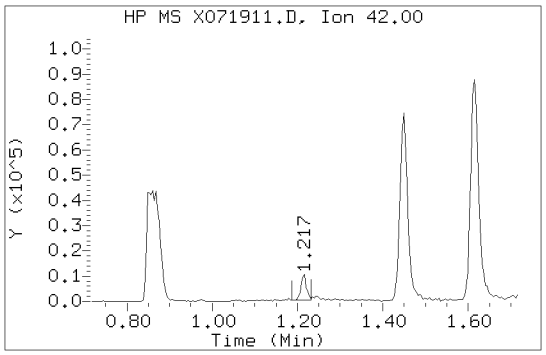

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Report Date: 25-Jul-2023 12:41

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230719.b\X071912.D
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Inj Date : 19-JUL-2023 13:53
Operator : PC Inst ID: voa6.i
Smp Info : HS23070658-09;HS23070658-09;;;
Misc Info : V6;WATER;0;25;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230719.b\8260W.m
Meth Date : 25-Jul-2023 12:41 voa6.i Quant Type: ISTD
Cal Date : 14-JUL-2023 14:24 Cal File: X071408.D
Als bottle: 10
Dil Factor: 25.00000
Integrator: HP RTE Compound Sublist: 0474-dod.sub
Target Version: 4.14
Processing Host: NAHSTW7056

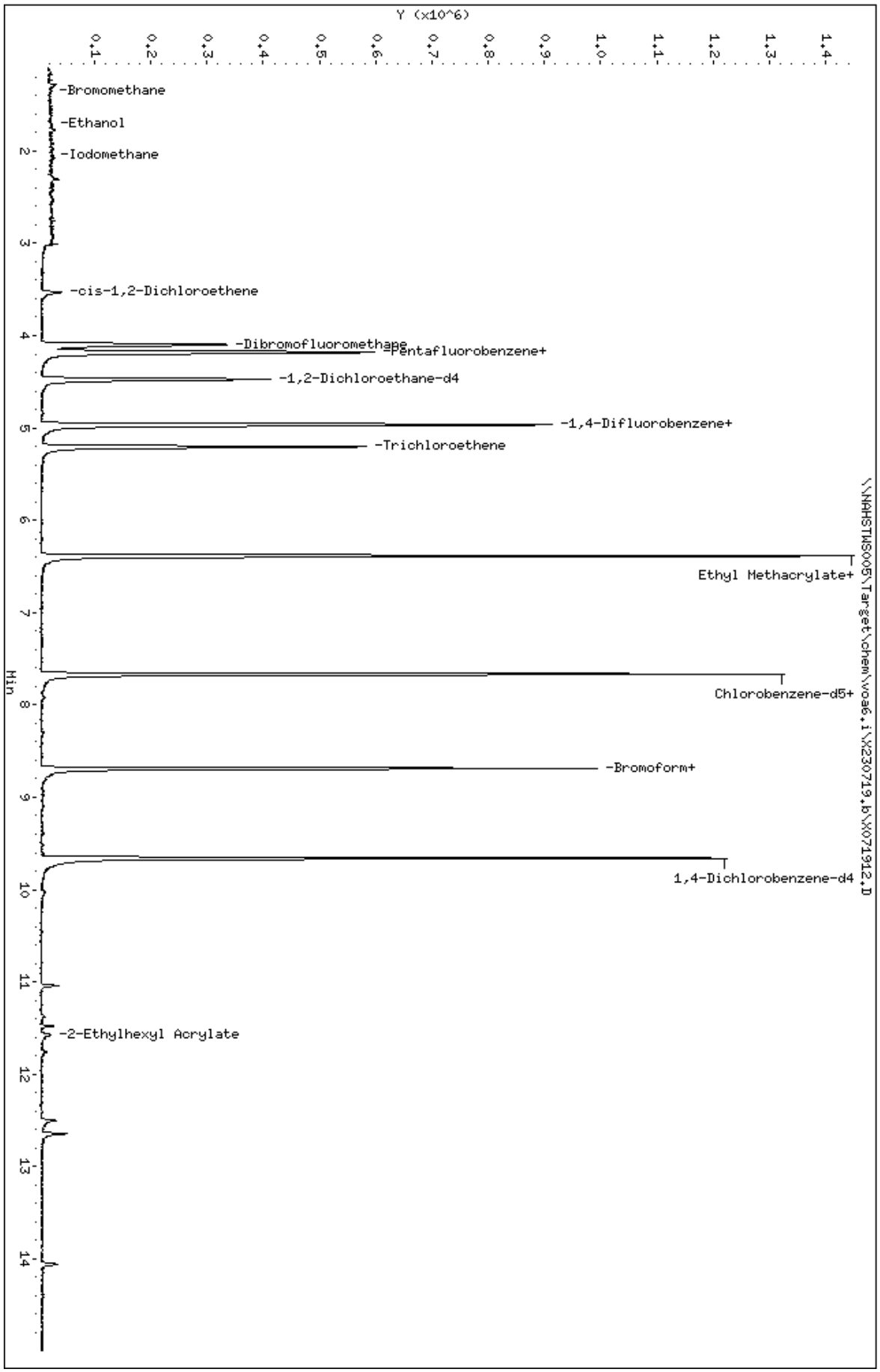
Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	25.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.181	4.178	(1.000)	456202	50.0000	
$ 30 Dibromofluoromethane	113	4.099	4.095	(0.980)	227053	54.3698	54.36
$ 35 1,2-Dichloroethane-d4	65	4.470	4.474	(1.069)	291428	55.8083	55.80
* 36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	681559	50.0000	
* 47 Chlorobenzene-d5	117	7.668	7.668	(1.000)	607992	50.0000	
$ 48 Toluene-d8	98	6.386	6.382	(0.833)	792072	50.5989	50.59
$ 69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	286144	47.2448	47.24
* 70 1,4-Dichlorobenzene-d4	152	9.662	9.658	(1.000)	305633	50.0000	
27 cis-1,2-Dichloroethene	96	3.533	3.525	(0.845)	14484	2.94098	73.52(a)
38 Trichloroethene	130	5.205	5.205	(1.048)	185197	40.1620	1004.05

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230719.b\X071912.D
Date : 19-JUL-2023 13:53
Client ID: HS23070658-09
Sample Info: HS23070658-09;HS23070658-09;;;
Purge Volume: 5.0
Column phase: DB624

Instrument: voa6.i
Operator: PC
Column diameter: 0.18

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230719.b\X071912.D

Date : 19-JUL-2023 13:53

Client ID: HS23070658-09

Instrument: voa6.i

Sample Info: HS23070658-09;HS23070658-09;;;

Purge Volume: 5.0

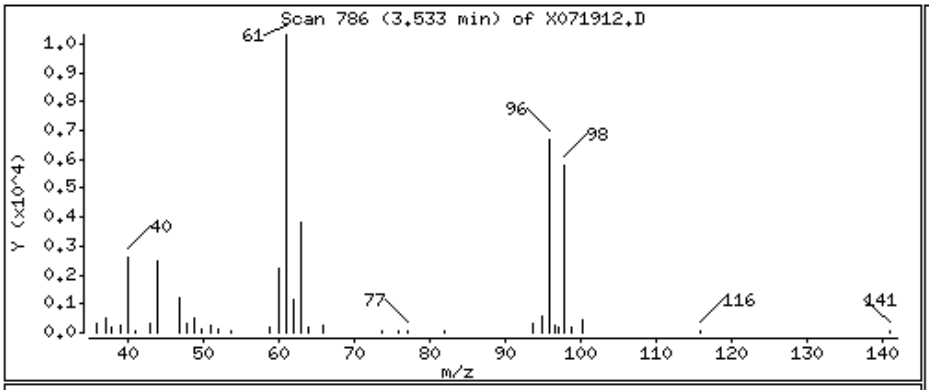
Operator: PC

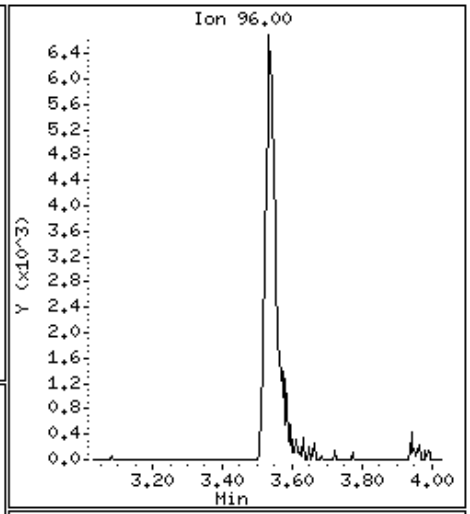
Column phase: DB624

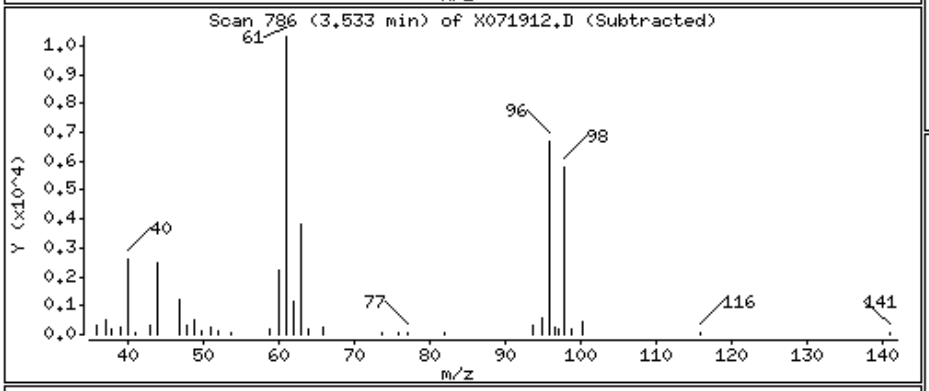
Column diameter: 0.18

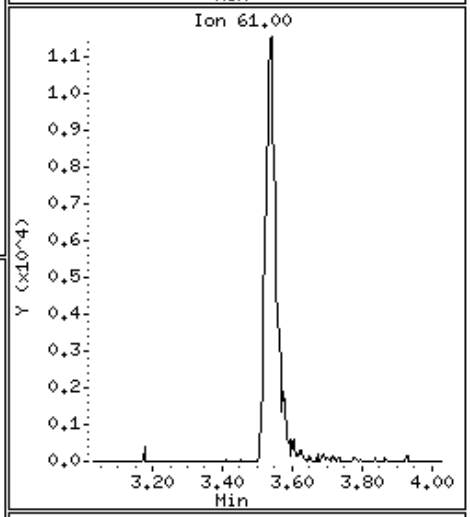
27 cis-1,2-Dichloroethene

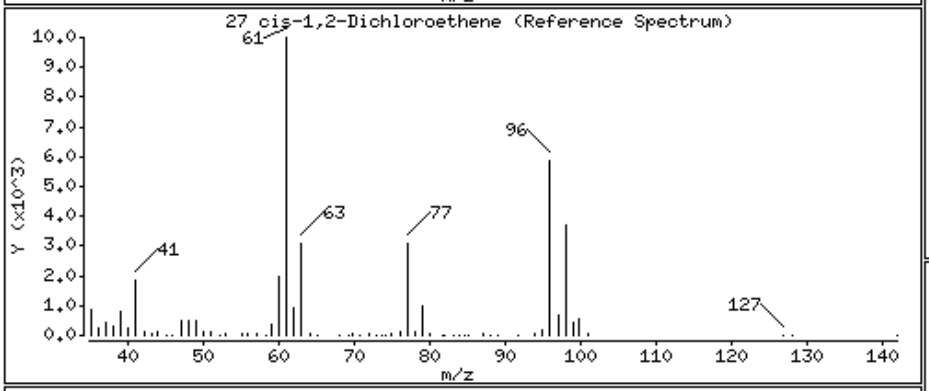
Concentration: 73.52 ug/l

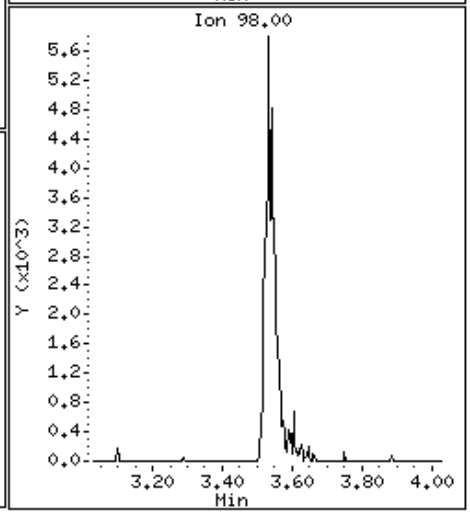


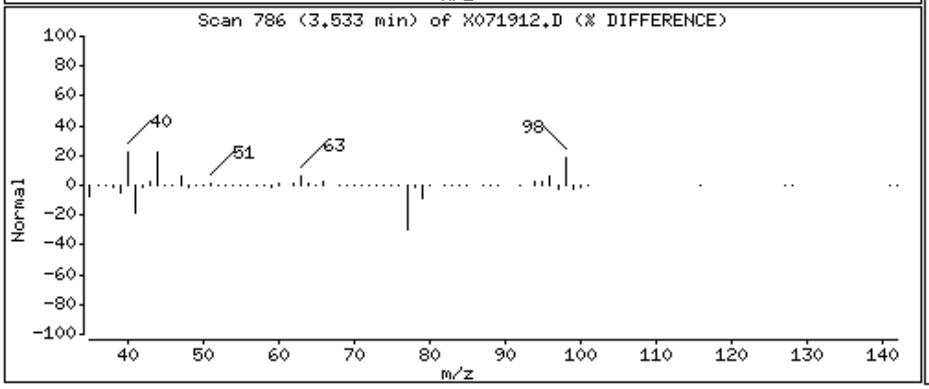












Data File: \\NAHSTWS005\Target\chem\voa6.i\X230719.b\X071912.D

Date : 19-JUL-2023 13:53

Client ID: HS23070658-09

Instrument: voa6.i

Sample Info: HS23070658-09;HS23070658-09;;;

Purge Volume: 5.0

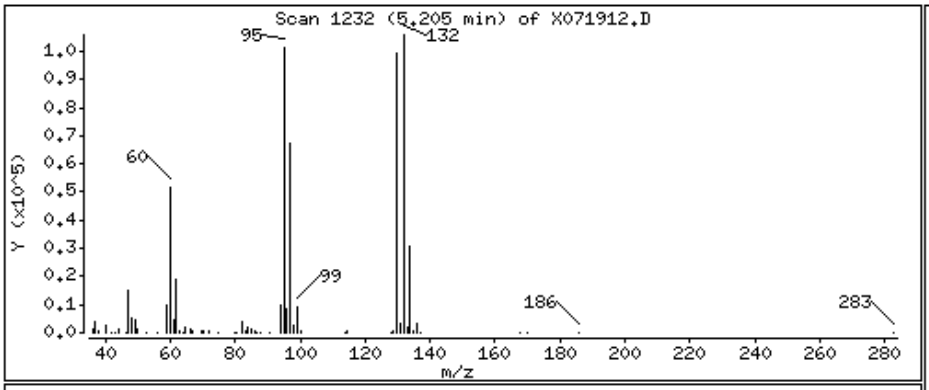
Operator: PC

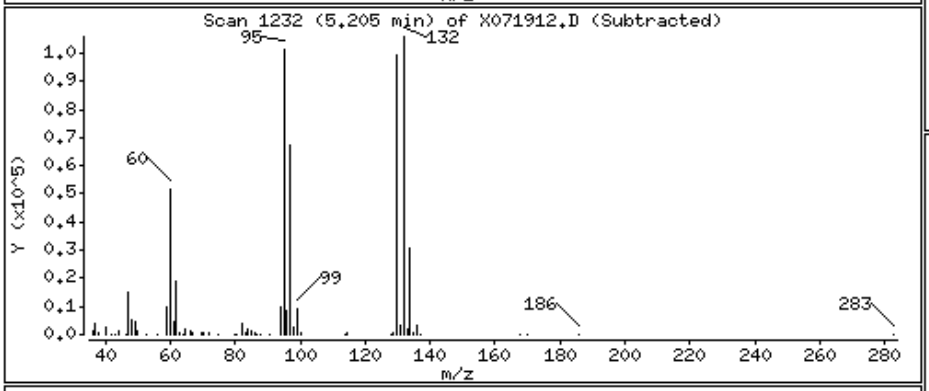
Column phase: DB624

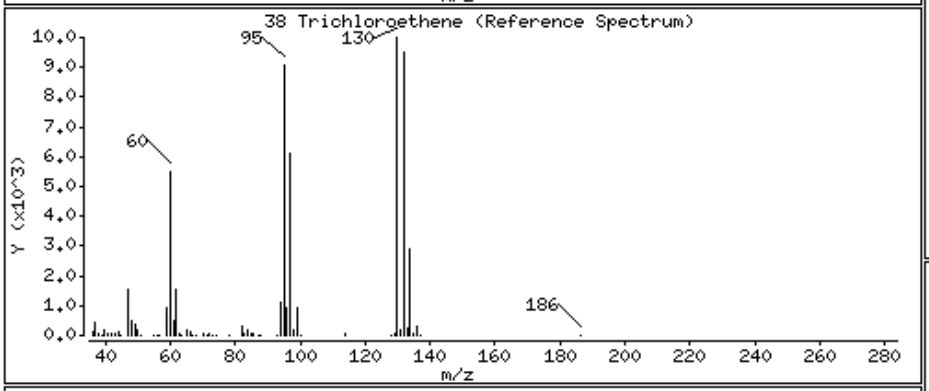
Column diameter: 0.18

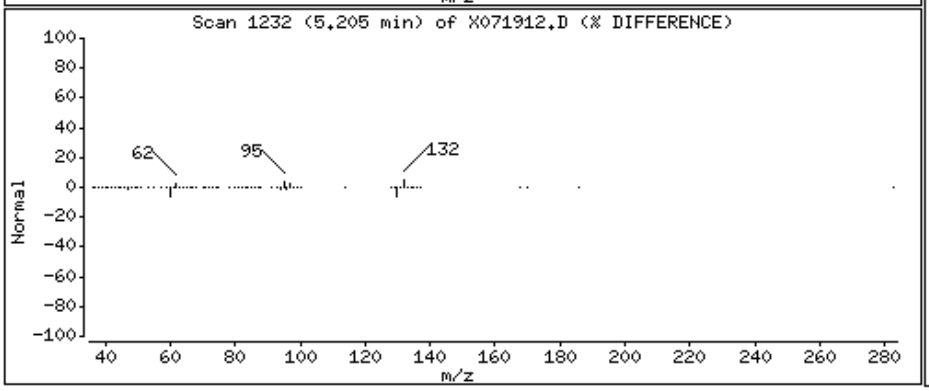
38 Trichloroethene

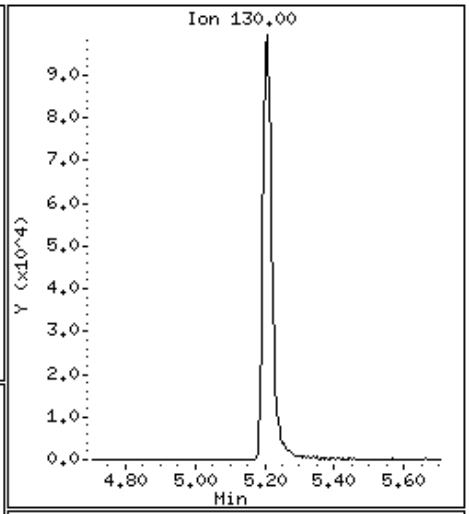
Concentration: 1004.05 ug/l

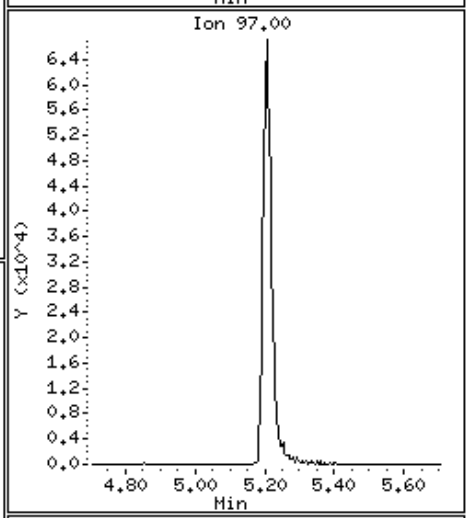


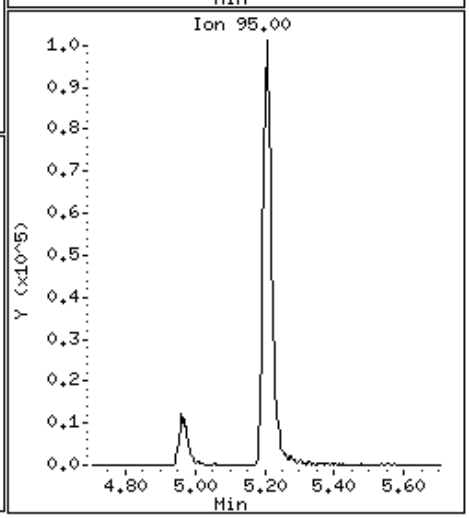












Data File : \\NAHSTWS005\Target\chem\voa6.i\X230719.b\X071912.D
Inj Date : 19-JUL-2023 13:53
InstruID : voa6.i
LabSampID : HS23070658-09

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230719.b\X071913.D Page 1
Report Date: 25-Jul-2023 12:41

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230719.b\X071913.D
Lab Smp Id: HS23070658-10 Client Smp ID: HS23070658-10
Inj Date : 19-JUL-2023 14:14
Operator : PC Inst ID: voa6.i
Smp Info : HS23070658-10;HS23070658-10;;;
Misc Info : V6;WATER;0;25;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230719.b\8260W.m
Meth Date : 25-Jul-2023 12:41 voa6.i Quant Type: ISTD
Cal Date : 14-JUL-2023 14:24 Cal File: X071408.D
Als bottle: 11
Dil Factor: 25.00000
Integrator: HP RTE Compound Sublist: 0474-dod.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	25.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.181	4.178	(1.000)	464746	50.0000	
$ 30 Dibromofluoromethane	113	4.099	4.095	(0.980)	229231	53.8754	53.87
$ 35 1,2-Dichloroethane-d4	65	4.474	4.474	(1.070)	287695	54.0613	54.06
* 36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	678358	50.0000	
* 47 Chlorobenzene-d5	117	7.668	7.668	(1.000)	609955	50.0000	
$ 48 Toluene-d8	98	6.385	6.382	(0.833)	799668	50.9198	50.91
$ 69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	288224	47.4368	47.43
* 70 1,4-Dichlorobenzene-d4	152	9.662	9.658	(1.000)	314193	50.0000	
27 cis-1,2-Dichloroethene	96	3.540	3.525	(0.847)	14061	2.80260	70.06(a)
38 Trichloroethene	130	5.205	5.205	(1.048)	181550	39.5569	988.92

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).

01321247

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230719.b\X071913.D

Date : 19-JUL-2023 14:14

Client ID: HS23070658-10

Instrument: voa6.i

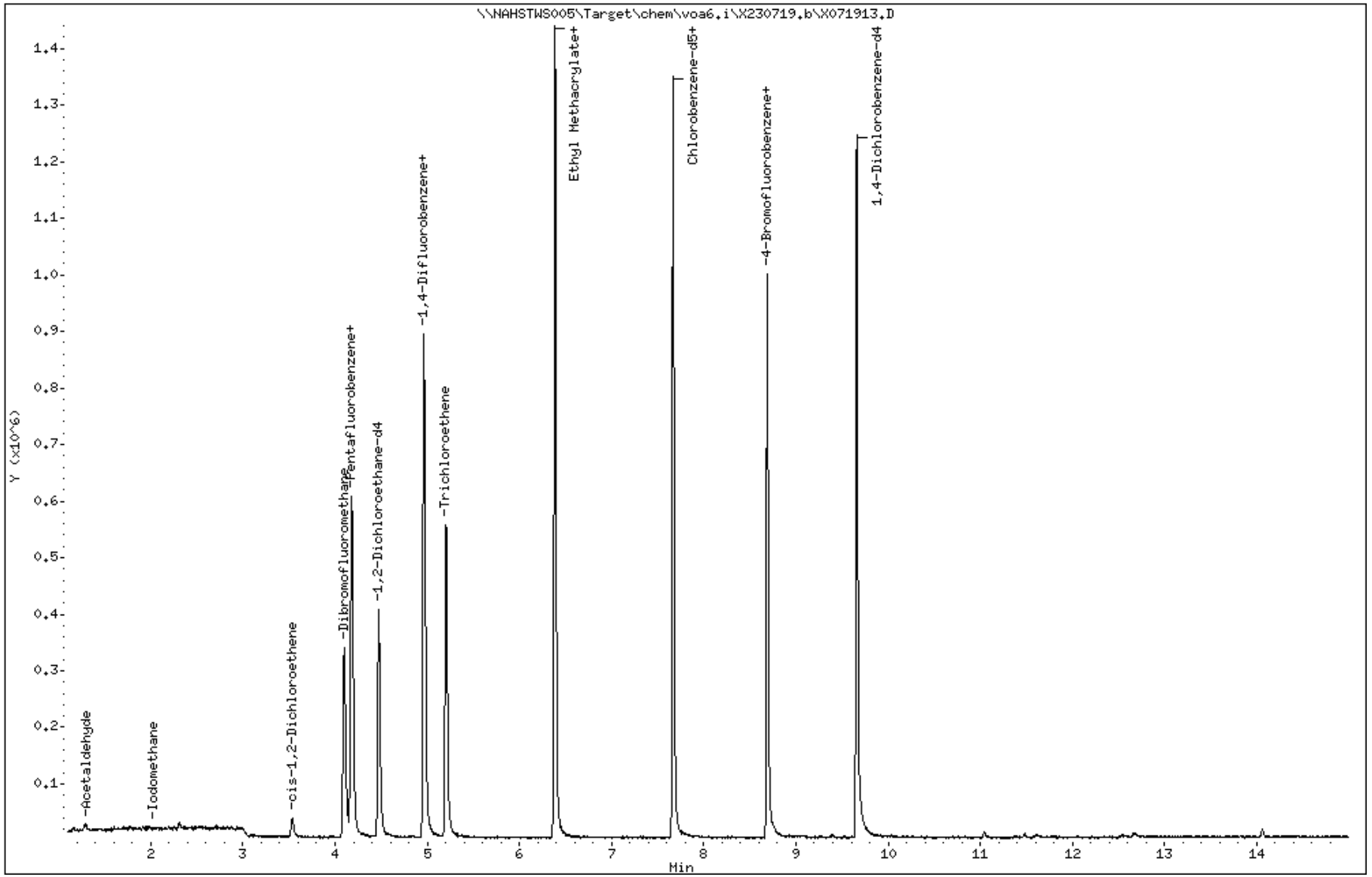
Sample Info: HS23070658-10;HS23070658-10;;;

Purge Volume: 5.0

Operator: PC

Column phase: DB624

Column diameter: 0.18



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Date : 19-JUL-2023 14:14

Client ID: HS23070658-10

Instrument: voa6.i

Sample Info: HS23070658-10;HS23070658-10;;;

Purge Volume: 5.0

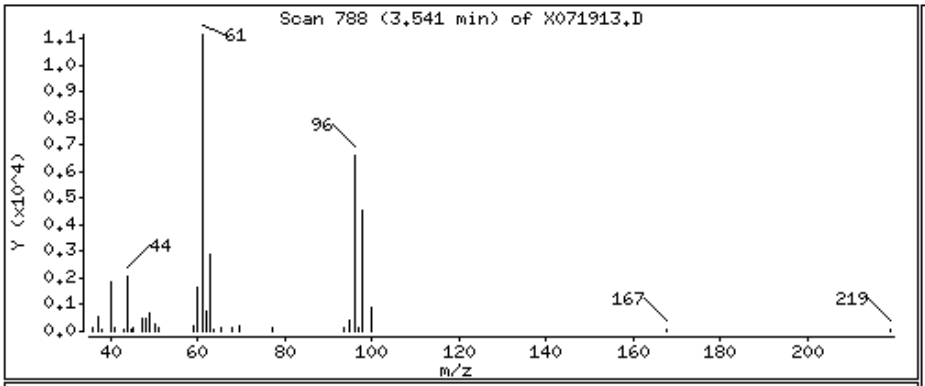
Operator: PC

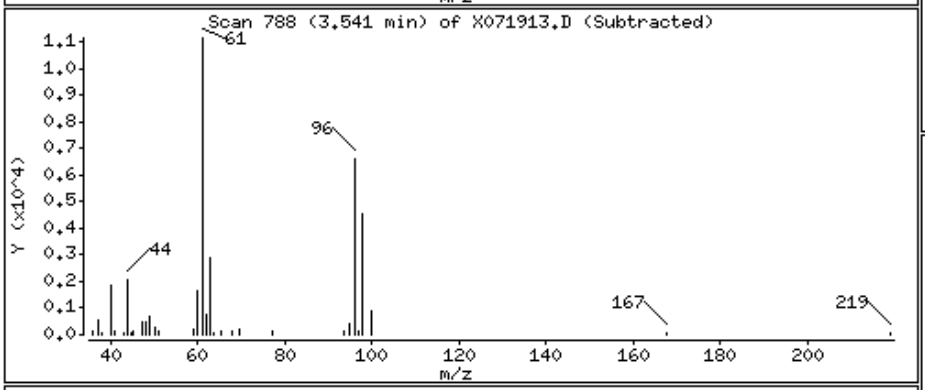
Column phase: DB624

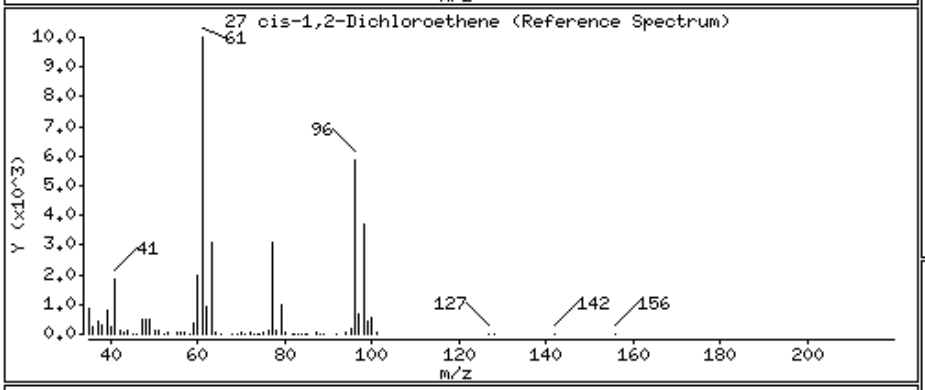
Column diameter: 0.18

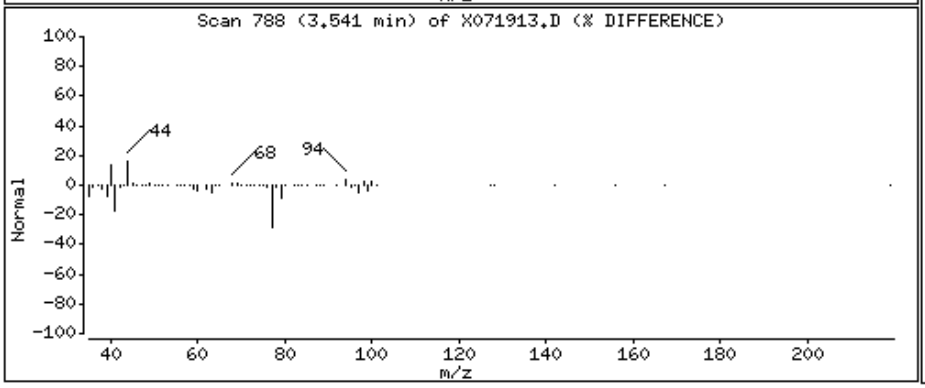
27 cis-1,2-Dichloroethene

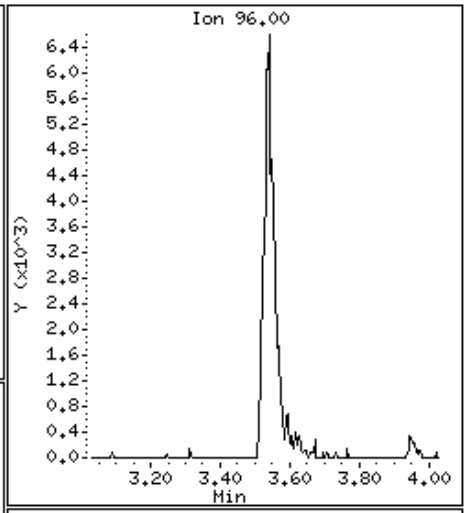
Concentration: 70.06 ug/l

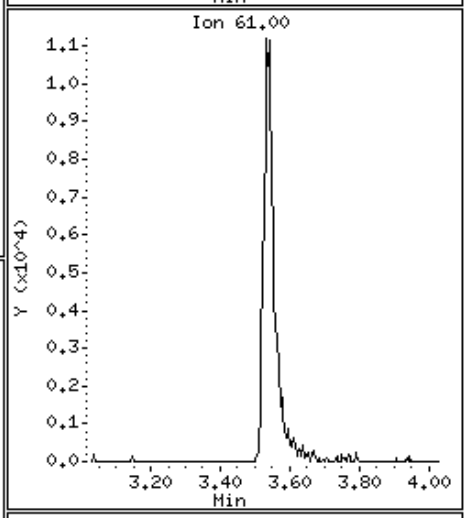


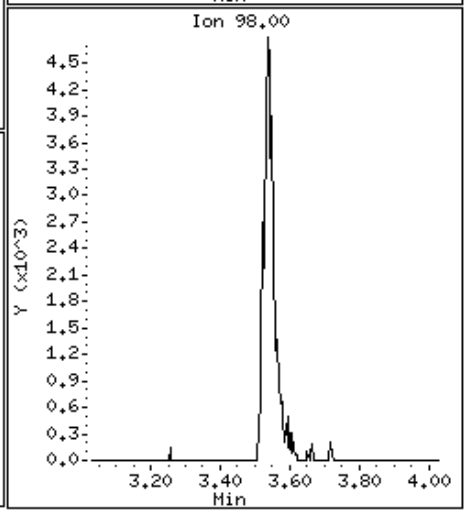












Data File: \\NAHSTWS005\Target\chem\voa6.i\X230719.b\X071913.D Page 3

Date : 19-JUL-2023 14:14

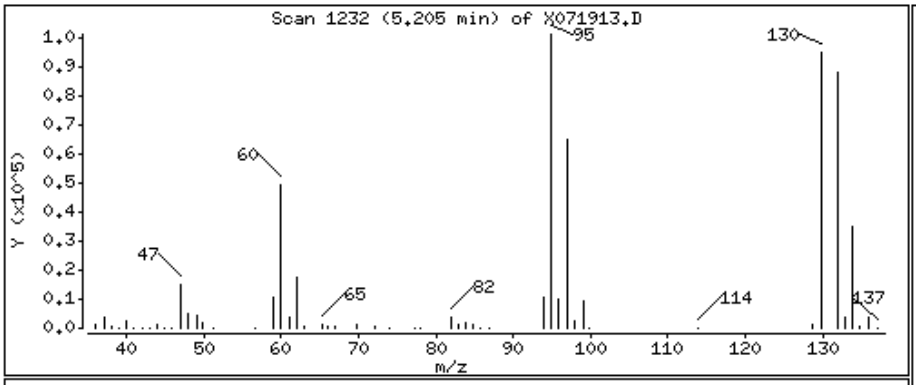
Client ID: HS23070658-10 Instrument: voa6.i

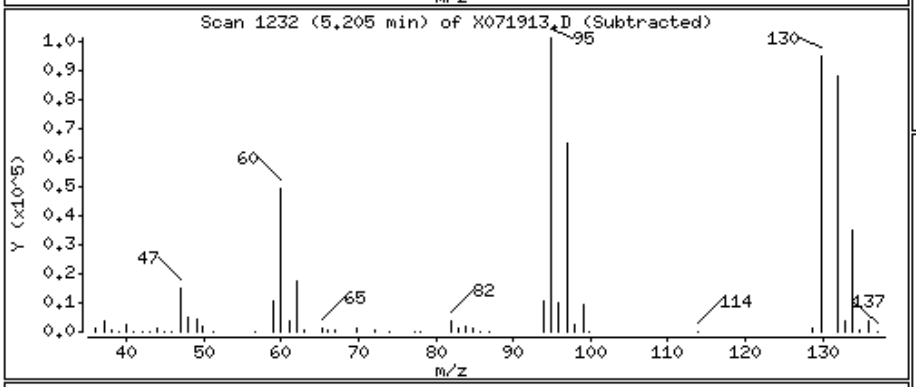
Sample Info: HS23070658-10;HS23070658-10;;;

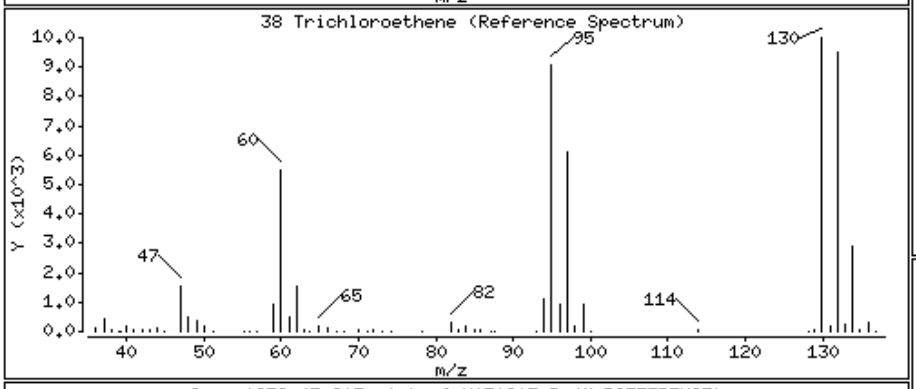
Purge Volume: 5.0 Operator: PC

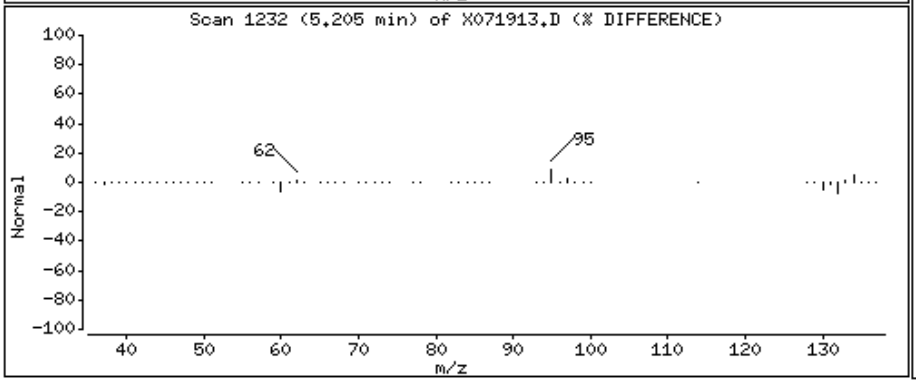
Column phase: DB624 Column diameter: 0.18

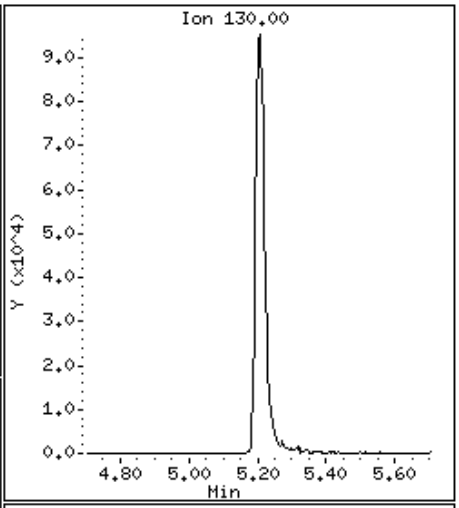
38 Trichloroethene Concentration: 988.92 ug/l

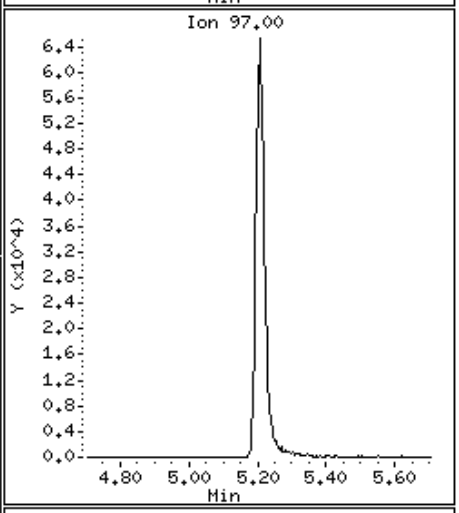


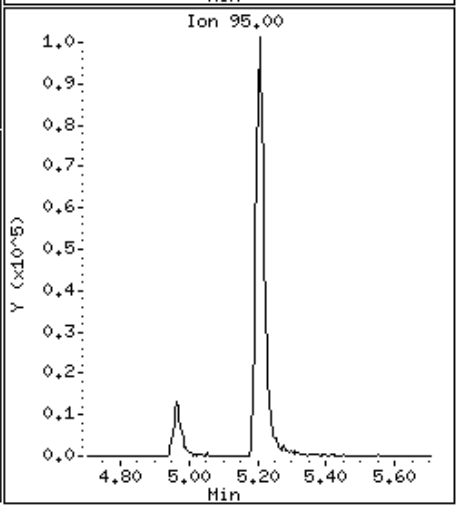












Data File : \\NAHSTWS005\Target\chem\voa6.i\X230719.b\X071913.D
Inj Date : 19-JUL-2023 14:14
InstruID : voa6.i
LabSampID : HS23070658-10

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230719.b\X071914.D Page 1
Report Date: 25-Jul-2023 12:41

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Data file : \\NAHSTWS005\Target\chem\voa6.i\X230719.b\X071914.D
Lab Smp Id: CCV-END Client Smp ID: CCV-END
Inj Date : 19-JUL-2023 14:34
Operator : PC Inst ID: voa6.i
Smp Info : CCV-END;CCV-END;2;;
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230719.b\8260W.m
Meth Date : 25-Jul-2023 12:41 voa6.i Quant Type: ISTD
Cal Date : 14-JUL-2023 14:24 Cal File: X071408.D
Als bottle: 12 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1 Pentafluorobenzene	168	4.177	4.177	(1.000)	460881	50.0000	
135 1,4-Dioxane	88	5.602	5.602	(1.341)	52293	1000.00	954.82
140 1,3-Butadiene	54	1.167	1.167	(0.280)	345730	50.0000	58.37
25 Methacrylonitrile	41	3.821	3.821	(0.915)	317877	50.0000	53.43
12 Isobutyl Alcohol	43	4.676	4.676	(1.119)	898218	1000.00	1028.14
13 Acetonitrile	39	2.202	2.202	(0.527)	395017	500.000	611.21
14 Allyl Chloride	41	2.202	2.202	(0.527)	924478	50.0000	61.09
4 Propionitrile	54	3.656	3.656	(0.875)	458729	500.000	502.45
72 trans-1,4-Dichloro-2-butene	53	8.886	8.886	(1.159)	105137	50.0000	51.96
194 Acetaldehyde	44	1.212	1.212	(0.290)	104690	200.000	259.18(M)
23 Chloroprene	53	1.775	1.775	(0.425)	120122	50.0000	57.96(M)
130 Ethyl Acetate	43	3.660	3.660	(0.876)	345272	50.0000	50.43
40 Methyl Methacrylate	41	5.606	5.606	(1.342)	273715	50.0000	49.20
49 Ethyl Methacrylate	69	6.712	6.712	(1.352)	212897	50.0000	44.47
131 Methyl Acrylate	55	3.694	3.694	(0.884)	317369	50.0000	50.65
132 n-Butanol	56	5.261	5.261	(1.259)	151161	1000.00	985.25
136 n-Hexane	57	2.772	2.772	(0.664)	243898	50.0000	53.63
139 Diethyl ether	59	1.760	1.760	(0.421)	225955	50.0000	52.57
156 Diisopropyl ether	45	3.004	3.004	(0.719)	1049446	50.0000	55.24
2 Dichlorodifluoromethane	85	0.976	0.976	(0.234)	223186	50.0000	47.39

3 Chloromethane	50	1.081	1.081 (0.259)	364369	50.0000	52.34
5 Vinyl Chloride	62	1.149	1.149 (0.275)	316359	50.0000	53.04

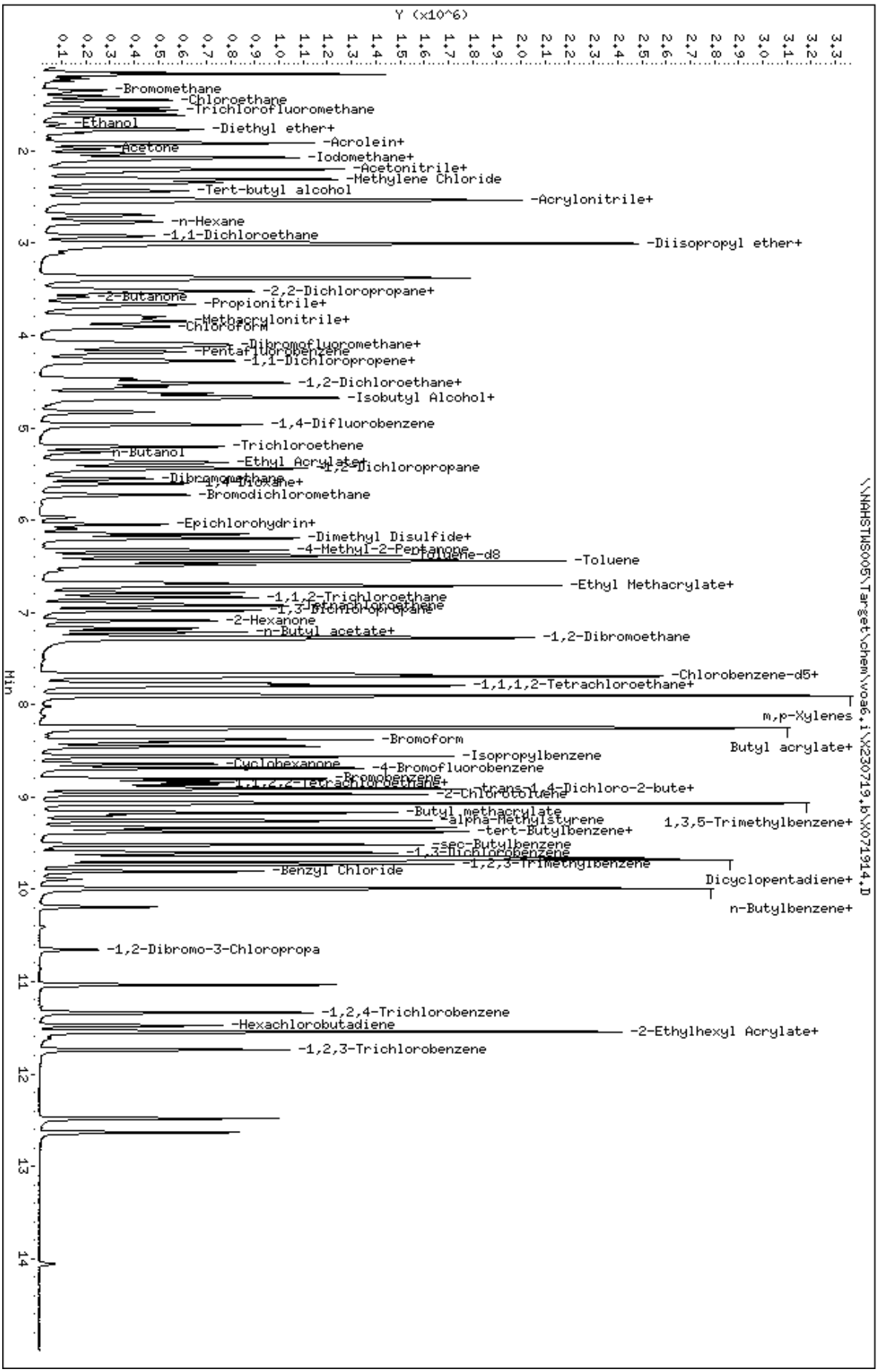
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	6 Bromomethane	94	1.343	1.343	(0.322)	123374	50.0000	49.98
	7 Chloroethane	64	1.407	1.407	(0.337)	170563	50.0000	50.09
	8 Trichlorofluoromethane	101	1.565	1.565	(0.375)	336820	50.0000	55.72
	9 Acrolein	56	1.861	1.861	(0.446)	25179	100.000	143.77
	10 Acetone	43	1.977	1.977	(0.473)	216889	100.000	119.86
	11 1,1-Dichloroethene	96	1.917	1.917	(0.459)	175207	50.0000	51.89
	15 Iodomethane	142	2.029	2.029	(0.486)	418188	100.000	94.28
	16 Acrylonitrile	53	2.536	2.536	(0.607)	267856	100.000	119.26
	17 Methylene Chloride	84	2.303	2.303	(0.551)	205941	50.0000	51.73
	18 Methyl tert-butyl ether	73	2.539	2.539	(0.608)	646015	50.0000	51.44
	19 Carbon Disulfide	76	2.071	2.071	(0.496)	1079590	100.000	101.71
	20 trans-1,2-Dichloroethene	96	2.528	2.528	(0.605)	196135	50.0000	50.21
	21 Vinyl Acetate	43	3.000	3.000	(0.718)	1889257	100.000	116.96
	22 1,1-Dichloroethane	63	2.922	2.922	(0.699)	450239	50.0000	52.53
	24 2-Butanone	43	3.585	3.585	(0.858)	249899	100.000	101.81
	26 2,2-Dichloropropane	77	3.506	3.506	(0.839)	322396	50.0000	48.46
	27 cis-1,2-Dichloroethene	96	3.525	3.525	(0.844)	239671	50.0000	48.17
	28 Chloroform	83	3.908	3.908	(0.935)	420659	50.0000	47.96
	29 Bromochloromethane	128	3.795	3.795	(0.908)	133151	50.0000	47.75
$	30 Dibromofluoromethane	113	4.095	4.095	(0.980)	228162	50.0000	54.07
	31 1,1,1-Trichloroethane	97	4.080	4.080	(0.977)	338736	50.0000	50.17
	32 1,1-Dichloropropene	75	4.279	4.279	(0.862)	277616	50.0000	46.56
	33 1,2-Dichloroethane	62	4.556	4.556	(0.918)	396599	50.0000	49.28
	34 Carbon Tetrachloride	117	4.264	4.264	(0.859)	274677	50.0000	45.72
$	35 1,2-Dichloroethane-d4	65	4.470	4.470	(1.070)	277312	50.0000	52.52
*	36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	730986	50.0000	
	37 Benzene	78	4.511	4.511	(0.909)	836819	50.0000	47.86
	38 Trichloroethene	130	5.201	5.201	(1.048)	238959	50.0000	48.31
	39 Bromodichloromethane	83	5.726	5.726	(1.153)	319800	50.0000	47.75
	41 2-Chloroethylvinyl ether	63	6.048	6.048	(1.218)	202260	100.000	98.91
	42 1,2-Dichloropropane	63	5.433	5.433	(1.094)	280530	50.0000	49.89
	44 Dibromomethane	93	5.553	5.553	(1.119)	151772	50.0000	47.68
	45 4-Methyl-2-Pentanone	43	6.325	6.325	(0.825)	630511	100.000	96.31
	46 cis-1,3-Dichloropropene	75	6.153	6.153	(1.239)	377324	50.0000	49.05
*	47 Chlorobenzene-d5	117	7.667	7.667	(1.000)	665229	50.0000	
$	48 Toluene-d8	98	6.385	6.385	(0.833)	822330	50.0000	48.01
	50 Toluene	91	6.445	6.445	(0.841)	906534	50.0000	50.62
	51 trans-1,3-Dichloropropene	75	6.682	6.682	(1.346)	318834	50.0000	49.16
	52 2-Hexanone	43	7.086	7.086	(0.924)	422178	100.000	98.17
	53 1,1,2-Trichloroethane	83	6.839	6.839	(0.892)	183849	50.0000	48.39
	54 1,3-Dichloropropane	76	6.981	6.981	(0.911)	378725	50.0000	48.80
	55 Dibromochloromethane	129	7.173	7.173	(0.935)	278623	50.0000	50.80
	56 Tetrachloroethene	164	6.925	6.925	(0.903)	179526	50.0000	48.52
	57 1,2-Dibromoethane	107	7.259	7.259	(0.947)	207372	50.0000	47.77
	58 1-Chlorohexane	55	7.694	7.694	(1.550)	247141	50.0000	42.08
	59 Chlorobenzene	112	7.694	7.694	(1.003)	606239	50.0000	48.43
	60 1,1,1,2-Tetrachloroethane	131	7.772	7.772	(1.014)	248884	50.0000	50.78
	61 Ethylbenzene	106	7.795	7.795	(1.017)	291137	50.0000	46.38
	62 m,p-Xylenes	106	7.900	7.900	(1.030)	762858	100.000	96.87
	63 o-Xylene	106	8.237	8.237	(1.074)	371262	50.0000	49.78
	64 Styrene	104	8.256	8.256	(1.077)	650859	50.0000	50.03
	66 Bromoform	173	8.410	8.410	(1.097)	179686	50.0000	51.06

67	Isopropylbenzene	105	8.560	8.560 (1.116)	901821	50.0000	47.04
68	1,1,2,2-Tetrachloroethane	83	8.837	8.837 (0.915)	290349	50.0000	48.00

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)	
$	69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	343915	50.0000	51.93	
*	70 1,4-Dichlorobenzene-d4	152	9.658	9.658	(1.000)	360087	50.0000		
	71 1,2,3-Trichloropropane	75	8.863	8.863	(0.918)	246183	50.0000	51.29	
	73 n-Propylbenzene	91	8.908	8.908	(0.922)	1062369	50.0000	48.82	
	74 Bromobenzene	156	8.799	8.799	(0.911)	281472	50.0000	49.98	
	75 1,3,5-Trimethylbenzene	105	9.066	9.066	(0.939)	770224	50.0000	47.24	
	76 2-Chlorotoluene	91	8.972	8.972	(0.929)	700806	50.0000	47.74	
	77 4-Chlorotoluene	91	9.069	9.069	(0.939)	796197	50.0000	49.36	
	78 tert-Butylbenzene	119	9.332	9.332	(0.966)	635294	50.0000	45.44	
	79 1,2,4-Trimethylbenzene	105	9.377	9.377	(0.971)	776745	50.0000	47.51	
	81 sec-Butylbenzene	105	9.519	9.519	(0.986)	855393	50.0000	45.90	
	82 p-Isopropyltoluene	119	9.647	9.647	(0.999)	769363	50.0000	45.19	
	83 1,3-Dichlorobenzene	146	9.602	9.602	(0.994)	487721	50.0000	49.71	
	84 1,4-Dichlorobenzene	146	9.680	9.680	(1.002)	507369	50.0000	47.16	
	87 n-Butylbenzene	91	9.992	9.992	(1.035)	658472	50.0000	46.19	
	88 1,2-Dichlorobenzene	146	9.992	9.992	(1.035)	487731	50.0000	50.56	
	89 1,2-Dibromo-3-Chloropropane	155	10.651	10.651	(1.103)	49165	50.0000	49.46	
	90 1,2,4-Trichlorobenzene	180	11.334	11.334	(1.173)	302788	50.0000	45.70	
	91 Hexachlorobutadiene	225	11.476	11.476	(1.188)	119445	50.0000	39.64	
	92 Naphthalene	128	11.540	11.540	(1.195)	779640	50.0000	47.54	
	93 1,2,3-Trichlorobenzene	180	11.738	11.738	(1.215)	280217	50.0000	45.22	
M	94 1,2-Dichloroethylene (total)	96				435806	100.000		(a)
	141 Cyclohexane	56	4.121	4.121	(0.987)	366395	50.0000	45.86	
	138 Freon TF	101	1.917	1.917	(0.459)	158075	50.0000	54.74	
	147 Methylcyclohexane	55	5.384	5.384	(1.085)	658971	50.0000	42.70	
	146 Methyl Acetate	43	2.232	2.232	(0.534)	272463	50.0000	66.42	
	148 Tert-Butyl alcohol	59	2.434	2.434	(0.583)	626373	1000.00	1076.80	
	149 Isopropyl Alcohol	45	2.097	2.097	(0.502)	431438	1000.00	1195.30	

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.



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Date : 19-JUL-2023 14:34
Client ID: CCV-END
Sample Info: CCV-END;CCV-END;2;;
Purge Volume: 5.0
Column phase: DB624

Instrument: voa6.i
Operator: PC
Column diameter: 0.18

Data File : \\NAHSTWS005\Target\chem\voa6.i\X230719.b\X071914.D
Inj Date : 19-JUL-2023 14:34
InstruID : voa6.i
LabSampID : CCV-END

Chloroprene (126-99-8)

BEFORE

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53
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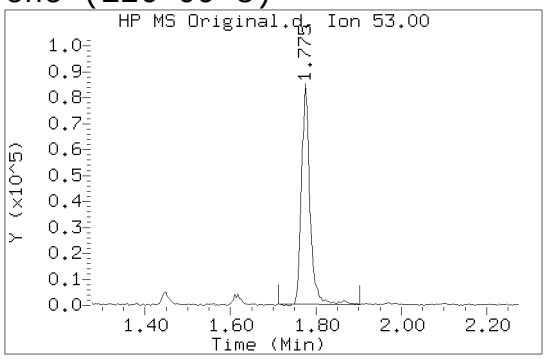
120122
HEIGHT
85064
25-Jul-2023
12:41
linh
pham



BEFORE

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25-Jul-2023
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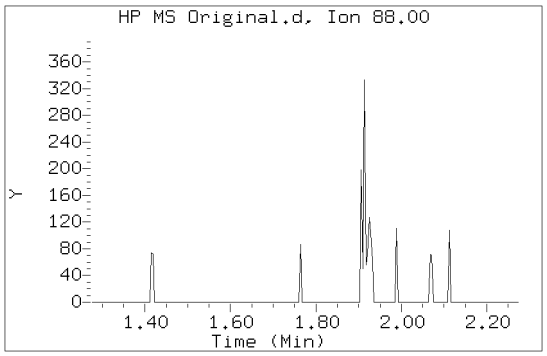

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AFTER

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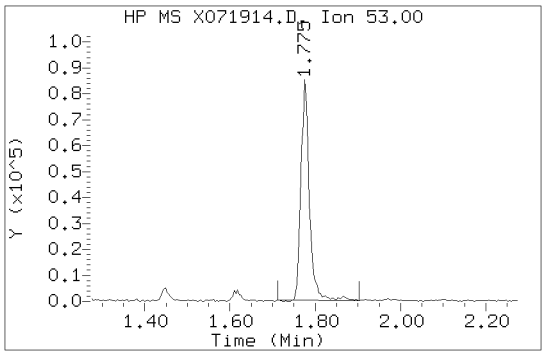

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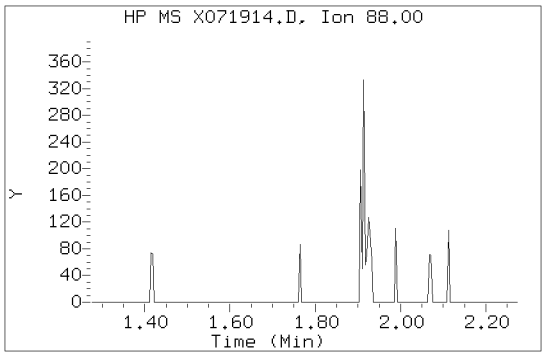

Acetaldehyde (75-07-0)

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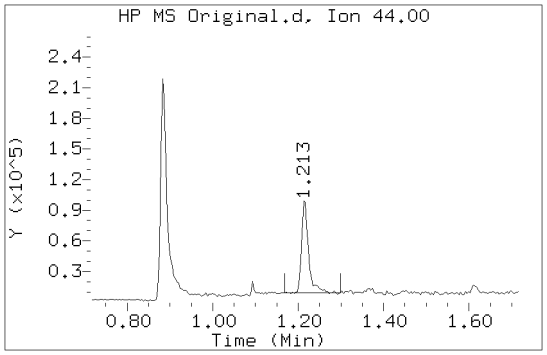

BEFORE

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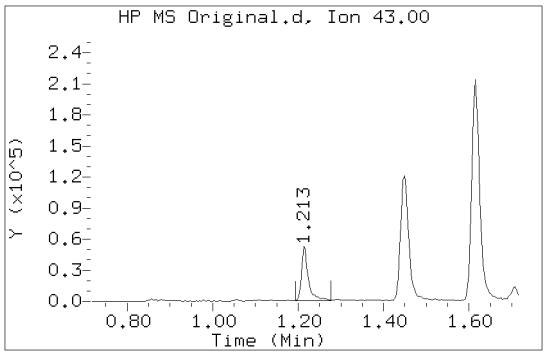

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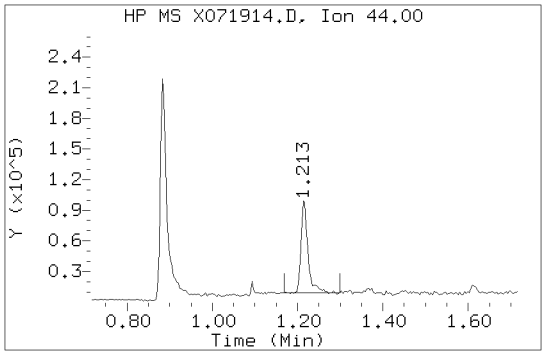

AFTER

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25-Jul-2023
12:41
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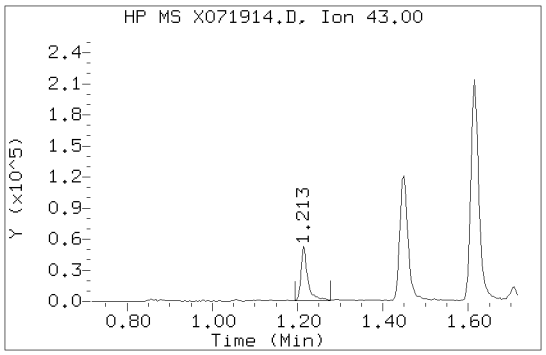

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Inj Date : 19-JUL-2023 14:34
InstruID : voa6.i
LabSampID : CCV-END

Acetaldehyde (75-07-0)

Reason Code:

BEFORE

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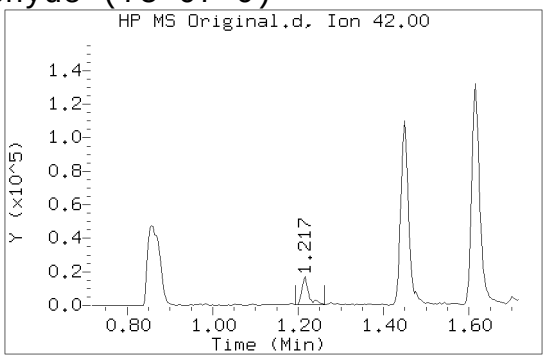
HEIGHT
16678
25-Jul-2023
12:41
linh
pham



AFTER

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HEIGHT
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25-Jul-2023
12:41
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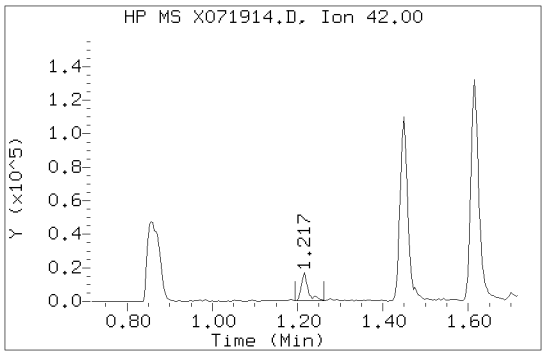

HS23070658-GCSEMI-RSK-175

ALS WO# HS23070658

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Form 1

Organic Analysis Data Sheet

Dissolved Gasses by RSK-175

Workorder

HS23070658

Client

Aptim Environmental & Infrastucture, Inc.

Project

LHAAP 16 January 2023

07/27/2023

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Form 1 - Organic Analysis Data Sheet

Client Aptim Environmental & Infrastucture, Inc.

Project LHAAP 16 January 2023

Workorder
HS23070658

Dissolved Gasses by RSK-175

HS23070658-01

16WW55-230712

Collected	Received	Matrix	Basis
07/12/23 07:05	07/13/23 09:30	Groundwater	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
Ethane	mg/L	0.00973		0.000144	0.00100	0.00100	1	07/13/23 18:20	FID-4_441466	051.D
Ethene	mg/L	0.0343		0.000234	0.00100	0.00100	1	07/13/23 18:20	FID-4_441466	051.D
Methane	mg/L	1.70		0.00535	0.0250	0.0250	50	07/13/23 19:19	FID-4_441466	058.D

Form 1 - Organic Analysis Data Sheet

Client Aptim Environmental & Infrastucture, Inc.

Project LHAAP 16 January 2023

Workorder **HS23070658**

Dissolved Gasses by RSK-175

HS23070658-02

16WW41-230712

Collected	Received	Matrix	Basis
07/12/23 07:50	07/13/23 09:30	Groundwater	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
Ethane	mg/L	0.00100	U	0.000144	0.00100	0.00100	1	07/13/23 18:28	FID-4_441466	052.D
Ethene	mg/L	0.0592		0.000234	0.00100	0.00100	1	07/13/23 18:28	FID-4_441466	052.D
Methane	mg/L	0.0294		0.000107	0.000500	0.000500	1	07/13/23 18:28	FID-4_441466	052.D

Form 1 - Organic Analysis Data Sheet

Client Aptim Environmental & Infrastucture, Inc.

Project LHAAP 16 January 2023

Workorder **HS23070658**

Dissolved Gasses by RSK-175

HS23070658-03

16WW48-230712

Collected	Received	Matrix	Basis
07/12/23 08:35	07/13/23 09:30	Groundwater	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
Ethane	mg/L	0.00100	U	0.000144	0.00100	0.00100	1	07/13/23 18:36	FID-4_441466	053.D
Ethene	mg/L	0.239		0.00117	0.00500	0.00500	5	07/13/23 19:31	FID-4_441466	059.D
Methane	mg/L	0.101		0.000535	0.00250	0.00250	5	07/13/23 19:31	FID-4_441466	059.D

Form 1 - Organic Analysis Data Sheet

Client Aptim Environmental & Infrastucture, Inc.

Project LHAAP 16 January 2023

Workorder **HS23070658**

Dissolved Gasses by RSK-175

HS23070658-04

16WW48-230712-FD

Collected	Received	Matrix	Basis
07/12/23 08:35	07/13/23 09:30	Groundwater	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
Ethane	mg/L	0.00100	U	0.000144	0.00100	0.00100	1	07/13/23 18:45	FID-4_441466	054.D
Ethene	mg/L	0.233		0.00117	0.00500	0.00500	5	07/13/23 19:40	FID-4_441466	060.D
Methane	mg/L	0.0988		0.000535	0.00250	0.00250	5	07/13/23 19:40	FID-4_441466	060.D

Form 1 - Organic Analysis Data Sheet

Client Aptim Environmental & Infrastucture, Inc.

Project LHAAP 16 January 2023

Workorder **HS23070658**

Dissolved Gasses by RSK-175

HS23070658-05

16EW03-230712

Collected	Received	Matrix	Basis
07/12/23 09:25	07/13/23 09:30	Groundwater	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
Ethane	mg/L	0.00100	U	0.000144	0.00100	0.00100	1	07/13/23 19:02	FID-4_441466	056.D
Ethene	mg/L	0.384		0.0234	0.100	0.100	100	07/13/23 19:48	FID-4_441466	061.D
Methane	mg/L	3.46		0.0107	0.0500	0.0500	100	07/13/23 19:48	FID-4_441466	061.D

Form 1 - Organic Analysis Data Sheet

Client Aptim Environmental & Infrastucture, Inc.

Project LHAAP 16 January 2023

Workorder **HS23070658**

Dissolved Gasses by RSK-175

HS23070658-06

16WW35-230712

Collected	Received	Matrix	Basis
07/12/23 10:15	07/13/23 09:30	Groundwater	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
Ethane	mg/L	0.00100	U	0.000144	0.00100	0.00100	1	07/13/23 19:10	FID-4_441466	057.D
Ethene	mg/L	0.0117		0.000234	0.00100	0.00100	1	07/13/23 19:10	FID-4_441466	057.D
Methane	mg/L	0.201		0.00107	0.00500	0.00500	10	07/13/23 19:58	FID-4_441466	062.D

Form 1 - Organic Analysis Data Sheet

Client Aptim Environmental & Infrastucture, Inc.

Project LHAAP 16 January 2023

Workorder **HS23070658**

Dissolved Gasses by RSK-175

MBLK-230713

MBLK-230713

Collected	Received	Matrix	Basis
NA	NA	Aqueous	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
Ethane	mg/L	0.00100	U	0.000144	0.00100	0.00100	1	07/13/23 16:16	FID-4_441466	039.D
Ethene	mg/L	0.00100	U	0.000234	0.00100	0.00100	1	07/13/23 16:16	FID-4_441466	039.D
Methane	mg/L	0.000500	U	0.000107	0.000500	0.000500	1	07/13/23 16:16	FID-4_441466	039.D

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Form 3A

Matrix Spike/Spike Duplicate Recovery

Dissolved Gasses by RSK-175

Workorder

HS23070658

Client

Aptim Environmental & Infrastucture, Inc.

Project

LHAAP 16 January 2023

07/27/2023

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Form 3A - Matrix Spike/Spike Duplicate Recovery

Client Aptim Environmental & Infrastucture, Inc.

Project LHAAP 16 January 2023

Workorder
HS23070658

RunID
FID-4-441466

Dissolved Gasses by RSK-175

				HS23070546-03MS				HS23070546-03MSD						
Sample Matrix Aqueous			**Run Date**	07/13/23				07/13/23						
Result Units mg/L			**Run Time**	16:59				17:25						
			Data File	043.D				045.D						
Analyte	%R Limits	DF	Sample Result	MS Result	Spike Added	%R	Q	MSD Result	Spike Added	%R	Q	RPD Limit	RPD	Q
Ethane	75-125	1	0.009667	0.0284	0.0180	104		0.0258	0.0180	90		20	9.39	
Ethene	75-125	1	0.01903	0.0303	0.0168	67		0.0308	0.0168	70		20	1.89	
Methane	75-125	1	1.912	1.73	0.0096	-		1.73	0.0096	-191		20	0.262	

Q - %Recovery / RPD Flag * - %Recovery / RPD Outside Limits OL - Outside Limits %R - %Recovery DF - Dilution Factor Amt - Amount (weight or volume)

01321270

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Form 4

Method Blank Summary

Dissolved Gasses by RSK-175

Workorder

HS23070658

Client

Aptim Environmental & Infrastucture, Inc.

Project

LHAAP 16 January 2023

07/27/2023

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Form 4 - Method Blank Summary

Client Aptim Environmental & Infrastucture, Inc.

Project LHAAP 16 January 2023

Workorder **HS23070658**

Dissolved Gasses by RSK-175

Client Sample ID	Type	Lab Sample ID	File ID	Date Analyzed	Run ID
METHOD BLANK	MBLK	MBLK-230713	039.D	07/13/23 16:16	FID-4_441466
LCS-230713	LCS	LCS-230713	040.D	07/13/23 16:33	FID-4_441466
LCSD-230713	LCSD	LCSD-230713	041.D	07/13/23 16:41	FID-4_441466
HS23070546-03MS	MS	HS23070546-03MS	043.D	07/13/23 16:59	FID-4_441466
HS23070546-03MSD	MSD	HS23070546-03MSD	045.D	07/13/23 17:25	FID-4_441466
16WW55-230712	SAMP	HS23070658-01	051.D	07/13/23 18:20	FID-4_441466
16WW41-230712	SAMP	HS23070658-02	052.D	07/13/23 18:28	FID-4_441466
16WW48-230712	SAMP	HS23070658-03	053.D	07/13/23 18:36	FID-4_441466
16WW48-230712-FD	SAMP	HS23070658-04	054.D	07/13/23 18:45	FID-4_441466
16EW03-230712	SAMP	HS23070658-05	056.D	07/13/23 19:02	FID-4_441466
16WW35-230712	SAMP	HS23070658-06	057.D	07/13/23 19:10	FID-4_441466
16WW55-230712	SAMP	HS23070658-01	058.D	07/13/23 19:19	FID-4_441466
16WW48-230712	SAMP	HS23070658-03	059.D	07/13/23 19:31	FID-4_441466
16WW48-230712-FD	SAMP	HS23070658-04	060.D	07/13/23 19:40	FID-4_441466
16EW03-230712	SAMP	HS23070658-05	061.D	07/13/23 19:48	FID-4_441466
16WW35-230712	SAMP	HS23070658-06	062.D	07/13/23 19:58	FID-4_441466

01321272

right solutions.
right partner.

Form 6

Initial Calibration Data

Dissolved Gasses by RSK-175

Workorder

HS23070658

Client

Aptim Environmental & Infrastucture, Inc.

Project

LHAAP 16 January 2023

07/27/2023

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Initial Calibration Data

Client Aptim Environmental & Infrastucture, Inc.

Project LHAAP 16 January 2023

Workorder HS23070658

RunID FID-4_322102

Dissolved Gasses by RSK-175

ICAL Start Date 24-JAN-2017 0906

ICAL End Date 24-JAN-2017 1113

Calibration Files

Calibration file names

Level 1..target\chem\fid-4.i\170124.b\001.d
Level 2..target\chem\fid-4.i\170124.b\002.d
Level 3..target\chem\fid-4.i\170124.b\003.d
Level 4..target\chem\fid-4.i\170124.b\004.d
Level 5..target\chem\fid-4.i\170124.b\005.d
Level 6..target\chem\fid-4.i\170124.b\006.d
Level 7..target\chem\fid-4.i\170124.b\007.d

Compound	10.00 Level 1	25.00 Level 2	50.00 Level 3	100.00 Level 4	250.00 Level 5	500.00 Level 6	1000.00 Level 7	Curve	b	m1	m2	%RSD or R2	Q
Methane	969 1082	978	1020	881	961	931		AVRG		974		6.55041	
Ethene	536 829	567	565	516	665	426		AVRG		586		21.93197	
Ethane	602 999	670	659	597	809	818		AVRG		736		19.88517	
Propane	500 96509	1279	2602	4785	18294	38286		QUAD	0.97987	0.00153	-4.583e-00	0.99914	
N-Butane	438 114164	936	2034	3864	18446	42817		QUAD	2.46870	0.00183	-5.537e-00	0.99808	
Pentane	115 488	3945	2080	950	501	412		AVRG		1213		112	*
Hexane	NE NE	NE	NE	NE	NE	NE		AVRG		0.000e+000		0.000e+000	

NE - Not Evaluated, AVRG - Averaged, LINR - Linear Regression, WLIN - Weighted Linear, QUAD - Quadratic, * - Curve Fit Outside Limits

01321274

right solutions.
right partner.

Form 6I

Initial Calibration Verification (ICV)

Dissolved Gasses by RSK-175

Workorder

HS23070658

Client

Aptim Environmental & Infrastucture, Inc.

Project

LHAAP 16 January 2023

07/27/2023

ALS Environmental–Houston Laboratory
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www.alsglobal.com

Initial Calibration Verification (ICV)

Client Aptim Environmental & Infrastucture, Inc.
Project LHAAP 16 January 2023

Workorder HS23070658

RunID FID-4_322102

Dissolved Gasses by RSK-175

Sample Matrix LIQUID
Lab Smp Id ICV
Level LOW
Fraction GASES
Client Smp ID ICV
Operator MA

Compound	Conc Added	Conc Recovered	% Recovered	Limits	Q
Methane	9.647	9.597	99.49	75-125	
Ethene	16.800	19.090	113.63	75-125	
Ethane	18.043	19.657	108.95	75-125	
Propane	26.463	27.238	102.93	75-125	
N-Butane	34.955	36.010	103.02	75-125	

01321276

right solutions.
right partner.

Form 7

Continuing Calibration Verification (CCV)

Dissolved Gasses by RSK-175

Workorder

HS23070658

Client

Aptim Environmental & Infrastucture, Inc.

Project

LHAAP 16 January 2023

07/27/2023

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Continuing Calibration Verification (CCV)

Client Aptim Environmental & Infrastucture, Inc.
Project LHAAP 16 January 2023

Workorder HS23070658

RunID FID-4_441466

Dissolved Gasses by RSK-175

Instrument ID FID-4.I
Lab File ID 033.D
Analysis Type WATER
Lab Sample ID RSK-CCV

Injection Date :57
ICAL Date(s) 24-JAN-2017 24-JAN-2017
ICAL Times :06 11:13
Quant Type ESTD

Compound	___ RRF / Conc	RF250	CCV RRF250	Min RRF	%D/ %D / %DRIFT	Max %D / %DRIFT	Curve CURVE TYPE	Q
Methane	975	886	886	0.010	9.15133	20.0	Averaged	
Ethene	586	530	530	0.010	9.58518	20.0	Averaged	
Ethane	719	737	737	0.010	-2.40528	20.0	Averaged	

Continuing Calibration Verification (CCV)

Client Aptim Environmental & Infrastucture, Inc.
Project LHAAP 16 January 2023

Workorder HS23070658

RunID FID-4_441466

Dissolved Gasses by RSK-175

Instrument ID FID-4.I
Lab File ID 044.D
Analysis Type WATER
Lab Sample ID RSK-CCV

Injection Date :10
ICAL Date(s) 24-JAN-2017 24-JAN-2017
ICAL Times :06 11:13
Quant Type ESTD

Compound	___ RRF / Conc	RF250	CCV RRF250	Min RRF	%D/ %D / %DRIFT	Max %D / %DRIFT	Curve CURVE TYPE	Q
Methane	975	872	872	0.010	10.57599	20.0	Averaged	
Ethene	586	528	528	0.010	9.93979	20.0	Averaged	
Ethane	719	736	736	0.010	-2.35906	20.0	Averaged	

Continuing Calibration Verification (CCV)

Client Aptim Environmental & Infrastucture, Inc.
Project LHAAP 16 January 2023

Workorder HS23070658

RunID FID-4_441466

Dissolved Gasses by RSK-175

Instrument ID FID-4.I
Lab File ID 055.D
Analysis Type WATER
Lab Sample ID RSK-CCV

Injection Date :53
ICAL Date(s) 24-JAN-2017 24-JAN-2017
ICAL Times :06 11:13
Quant Type ESTD

Compound	___ RRF / Conc	RF250	CCV RRF250	Min RRF	%D/ %D / %DRIFT	Max %D / %DRIFT	Curve CURVE TYPE	Q
Methane	975	945	945	0.010	3.06994	20.0	Averaged	
Ethene	586	532	532	0.010	9.17991	20.0	Averaged	
Ethane	719	722	722	0.010	-0.41788	20.0	Averaged	

Continuing Calibration Verification (CCV)

Client Aptim Environmental & Infrastucture, Inc.
Project LHAAP 16 January 2023

Workorder HS23070658

RunID FID-4_441466

Dissolved Gasses by RSK-175

Instrument ID FID-4.I
Lab File ID 063.D
Analysis Type WATER
Lab Sample ID RSK-CCV

Injection Date :06
ICAL Date(s) 24-JAN-2017 24-JAN-2017
ICAL Times :06 11:13
Quant Type ESTD

Compound	___ RRF / Conc	RF250	CCV RRF250	Min RRF	%D/ %D / %DRIFT	Max %D / %DRIFT	Curve CURVE TYPE	Q
Methane	975	874	874	0.010	10.37398	20.0	Averaged	
Ethene	586	522	522	0.010	10.85164	20.0	Averaged	
Ethane	719	719	719	0.010	0.13675	20.0	Averaged	

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right solutions.
right partner.

Analysis Run Log

Dissolved Gasses by RSK-175

Workorder

HS23070658

Client

Aptim Environmental & Infrastucture, Inc.

Project

LHAAP 16 January 2023

07/27/2023

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Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Form 13 - Analysis Run Log

Client Aptim Environmental & Infrastucture, Inc.

Project LHAAP 16 January 2023

Workorder
HS23070658

RunID
FID-4-322102

Dissolved Gasses by RSK-175

Run ID FID-4_322102 **Start Date** 01/24/17 **EndDate** 01/24/17

Inj. Time	Client Sample ID	Type	Lab Sample ID	File ID	Analysis Date	DF
09:06	ICAL1	ICAL1	ICAL1	001.D	01/24/17	1
09:30	ICAL2	ICAL2	ICAL2	002.D	01/24/17	1
09:59	ICAL3	ICAL3	ICAL3	003.D	01/24/17	1
10:15	ICAL4	ICAL4	ICAL4	004.D	01/24/17	1
10:39	ICAL5	ICAL5	ICAL5	005.D	01/24/17	1
10:57	ICAL6	ICAL6	ICAL6	006.D	01/24/17	1
11:13	ICAL7	ICAL7	ICAL7	007.D	01/24/17	1
12:05	ICV	ICV	ICV	008.D	01/24/17	1

Form 13 - Analysis Run Log

Client Aptim Environmental & Infrastucture, Inc.

Project LHAAP 16 January 2023

Workorder
HS23070658

RunID
FID-4-441466

Dissolved Gasses by RSK-175

Run ID FID-4_441466 **Start Date** 07/13/23 **EndDate** 07/13/23

Inj. Time	Client Sample ID	Type	Lab Sample ID	File ID	Analysis Date	DF
14:57	RSK-CCV	CCV	RSK-CCV	033.D	07/13/23	1
16:16	MBLK-230713	MBLK	MBLK-230713	039.D	07/13/23	1
16:33	LCS-230713	LCS	LCS-230713	040.D	07/13/23	1
16:41	LCSD-230713	LCSD	LCSD-230713	041.D	07/13/23	1
16:59	HS23070546-03MS	MS	ZZZZZZMS	043.D	07/13/23	1
17:10	RSK-CCV	CCV	RSK-CCV	044.D	07/13/23	1
17:25	HS23070546-03MSD	MSD	ZZZZZZMSD	045.D	07/13/23	1
17:42	HS23070546-01	SAMP	ZZZZZZZZZZ	047.D	07/13/23	1
17:50	HS23070546-02	SAMP	ZZZZZZZZZZ	048.D	07/13/23	1
18:00	HS23070546-03	SAMP	ZZZZZZZZZZ	049.D	07/13/23	1
18:12	HS23070546-03	SAMP	ZZZZZZZZZZ	050.D	07/13/23	50
18:20	HS23070658-01	SAMP	16WW55-230712	051.D	07/13/23	1
18:28	HS23070658-02	SAMP	16WW41-230712	052.D	07/13/23	1
18:36	HS23070658-03	SAMP	16WW48-230712	053.D	07/13/23	1
18:45	HS23070658-04	SAMP	16WW48-230712-FD	054.D	07/13/23	1
18:53	RSK-CCV	CCV	RSK-CCV	055.D	07/13/23	1
19:02	HS23070658-05	SAMP	16EW03-230712	056.D	07/13/23	1
19:10	HS23070658-06	SAMP	16WW35-230712	057.D	07/13/23	1
19:19	HS23070658-01	SAMP	16WW55-230712	058.D	07/13/23	50
19:31	HS23070658-03	SAMP	16WW48-230712	059.D	07/13/23	5
19:40	HS23070658-04	SAMP	16WW48-230712-FD	060.D	07/13/23	5
19:48	HS23070658-05	SAMP	16EW03-230712	061.D	07/13/23	100
19:58	HS23070658-06	SAMP	16WW35-230712	062.D	07/13/23	10
20:06	RSK-CCV	CCV	RSK-CCV	063.D	07/13/23	1

01321284

right solutions.
right partner.

Raw Data FID 4 322102

Dissolved Gasses by RSK-175

Workorder

HS23070658

Client

Aptim Environmental & Infrastucture, Inc.

Project

LHAAP 16 January 2023

07/27/2023

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Data File: \\NAHSTWS005\Target\chem\FID-4.i\170124.b\001.D Page 1
Report Date: 28-Sep-2022 10:00

ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\NAHSTWS005\Target\chem\FID-4.i\170124.b\001.D
Lab Smp Id: ICAL1 Client Smp ID: ICAL1
Inj Date : 24-JAN-2017 09:06
Operator : JA Inst ID: FID-4.i
Smp Info : ICAL1;ICAL1;;;
Misc Info :
Comment :
Method : \\NAHSTWS005\Target\chem\FID-4.i\170124.b\RSKNI2.m
Meth Date : 28-Sep-2022 10:00 FID-4.i Quant Type: ESTD
Cal Date : 24-JAN-2017 11:13 Cal File: 007.D
Als bottle: 1 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: stdNIP2.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Methane	1.043	1.043	0.000	374	0.38600	0.383(a)
2 Ethene	1.553	1.553	0.000	361	0.67400	0.615(a)
3 Ethane	1.716	1.716	0.000	435	0.72200	0.590(a)
4 Propane	4.073	4.073	0.000	500	1.05900	1.743
5 N-Butane	7.640	7.640	0.000	438	1.39800	3.271

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

01321286

Data File: \\NAHSTWS005\Target\chem\FID-4.i\170124.b\001.D

Date : 24-JAN-2017 09:06

Client ID: ICAL1

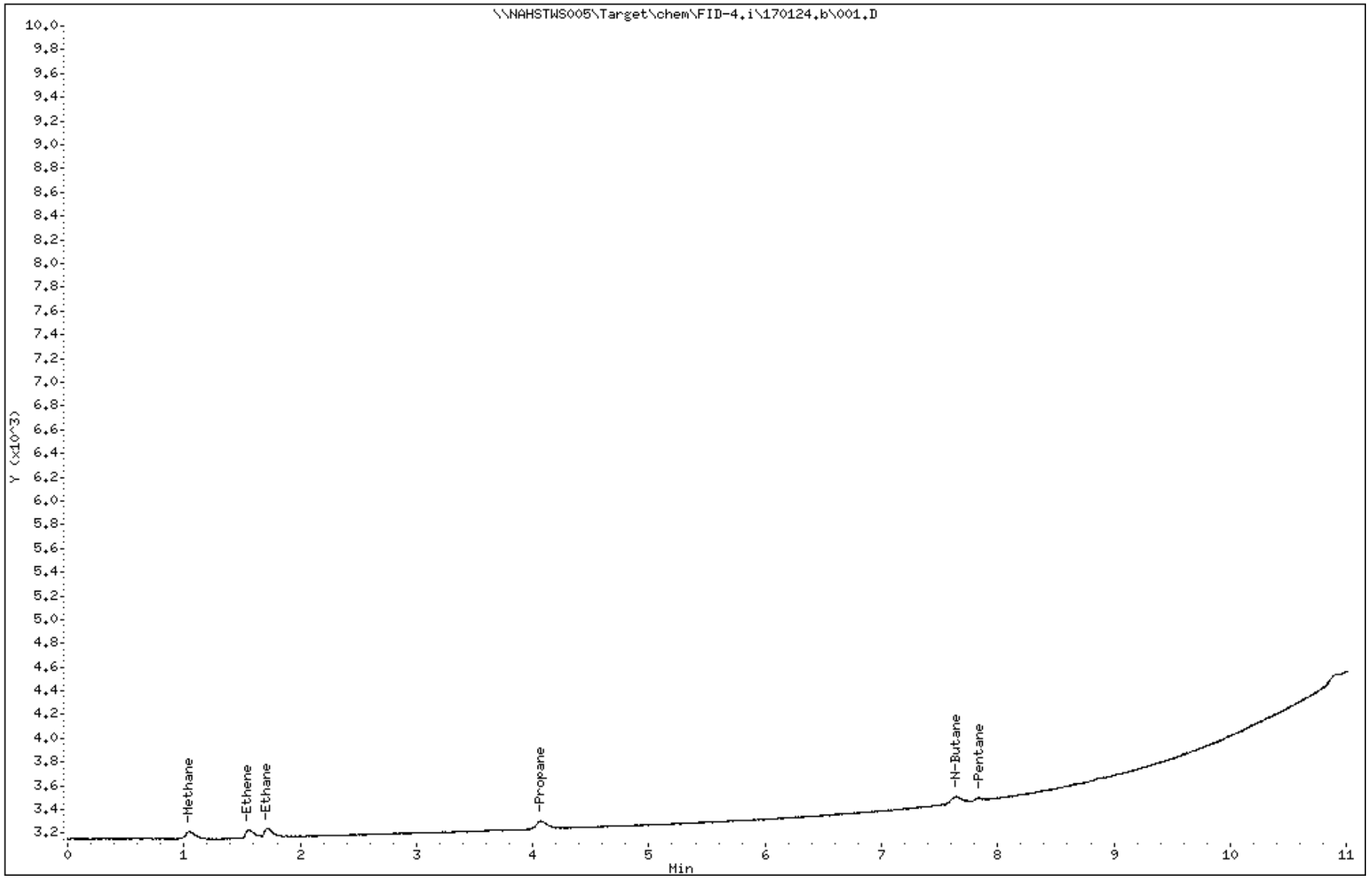
Instrument: FID-4.i

Sample Info: ICAL1;ICAL1;;;

Operator: JA

Column phase: Rtx-PLOT

Column diameter: 0.53



Data File : \\NAHSTWS005\Target\chem\FID-4.i\170124.b\001.D
Inj Date : 24-JAN-2017 09:06
InstruID : FID-4.i
LabSampID : ICAL1

NO MANUAL INTEGRATIONS

ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\NAHSTWS005\Target\chem\FID-4.i\170124.b\002.D
Lab Smp Id: ICAL2 Client Smp ID: ICAL2
Inj Date : 24-JAN-2017 09:30
Operator : MA Inst ID: FID-4.i
Smp Info : ICAL2;ICAL2;;;
Misc Info : ;1;0;1
Comment :
Method : \\NAHSTWS005\Target\chem\FID-4.i\170124.b\RSKNI2.m
Meth Date : 28-Sep-2022 10:00 FID-4.i Quant Type: ESTD
Cal Date : 24-JAN-2017 09:06 Cal File: 001.D
Als bottle: 2 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: stdNIP2.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
1 Methane	1.023	1.023	0.000	944	0.96500	0.968
2 Ethene	1.560	1.560	0.000	956	1.68500	1.630
3 Ethane	1.723	1.723	0.000	1209	1.80400	1.641
4 Propane	4.123	4.123	0.000	1279	2.64600	2.927
5 N-Butane	7.716	7.716	0.000	936	3.49600	4.180

01321289

Data File: \\NAHSTWS005\Target\chem\FID-4.i\170124.b\002.D

Date : 24-JAN-2017 09:30

Client ID: ICAL2

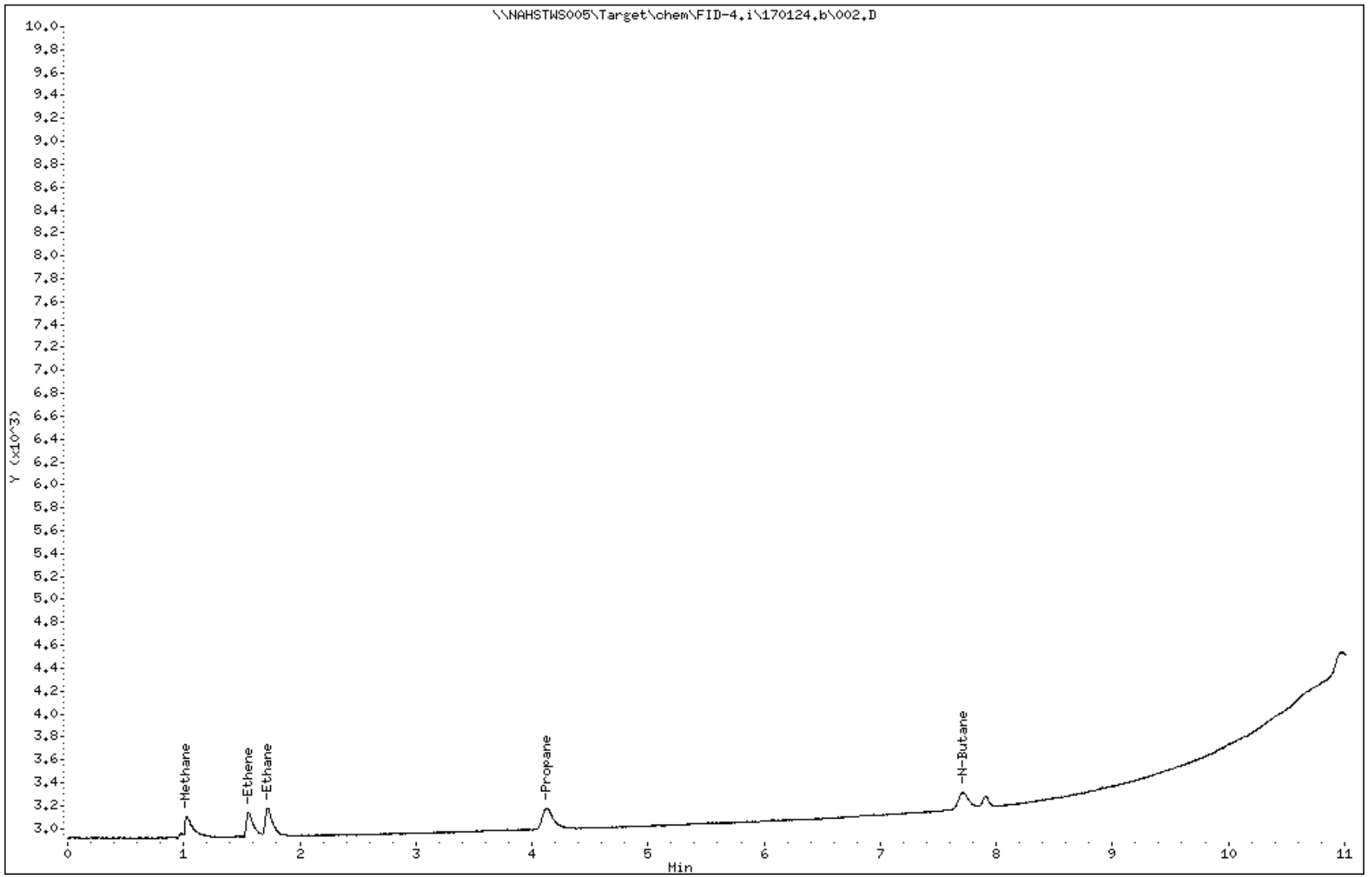
Instrument: FID-4.i

Sample Info: ICAL2;ICAL2;;;

Operator: MA

Column phase: Rtx-PLOT

Column diameter: 0.53



Data File : \\NAHSTWS005\Target\chem\FID-4.i\170124.b\002.D
Inj Date : 24-JAN-2017 09:30
InstruID : FID-4.i
LabSampID : ICAL2

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\FID-4.i\170124.b\003.D Page 1
Report Date: 28-Sep-2022 10:00

ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\NAHSTWS005\Target\chem\FID-4.i\170124.b\003.D
Lab Smp Id: ICAL3 Client Smp ID: ICAL3
Inj Date : 24-JAN-2017 09:59
Operator : MA Inst ID: FID-4.i
Smp Info : ICAL3;ICAL3;;;
Misc Info : ;1;0;1
Comment :
Method : \\NAHSTWS005\Target\chem\FID-4.i\170124.b\RSKNI2.m
Meth Date : 28-Sep-2022 10:00 FID-4.i Quant Type: ESTD
Cal Date : 24-JAN-2017 09:30 Cal File: 002.D
Als bottle: 3 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: stdNIP2.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Methane	1.043	1.043	0.000	1967	1.92900	2.018
2 Ethene	1.570	1.570	0.000	1904	3.37000	3.247
3 Ethane	1.736	1.736	0.000	2378	3.60900	3.229
4 Propane	4.123	4.123	0.000	2602	5.29300	4.926
5 N-Butane	7.703	7.703	0.000	2034	6.99100	6.176

01321292

Data File: \\NAHSTWS005\Target\chem\FID-4.i\170124.b\003.D

Date : 24-JAN-2017 09:59

Client ID: ICAL3

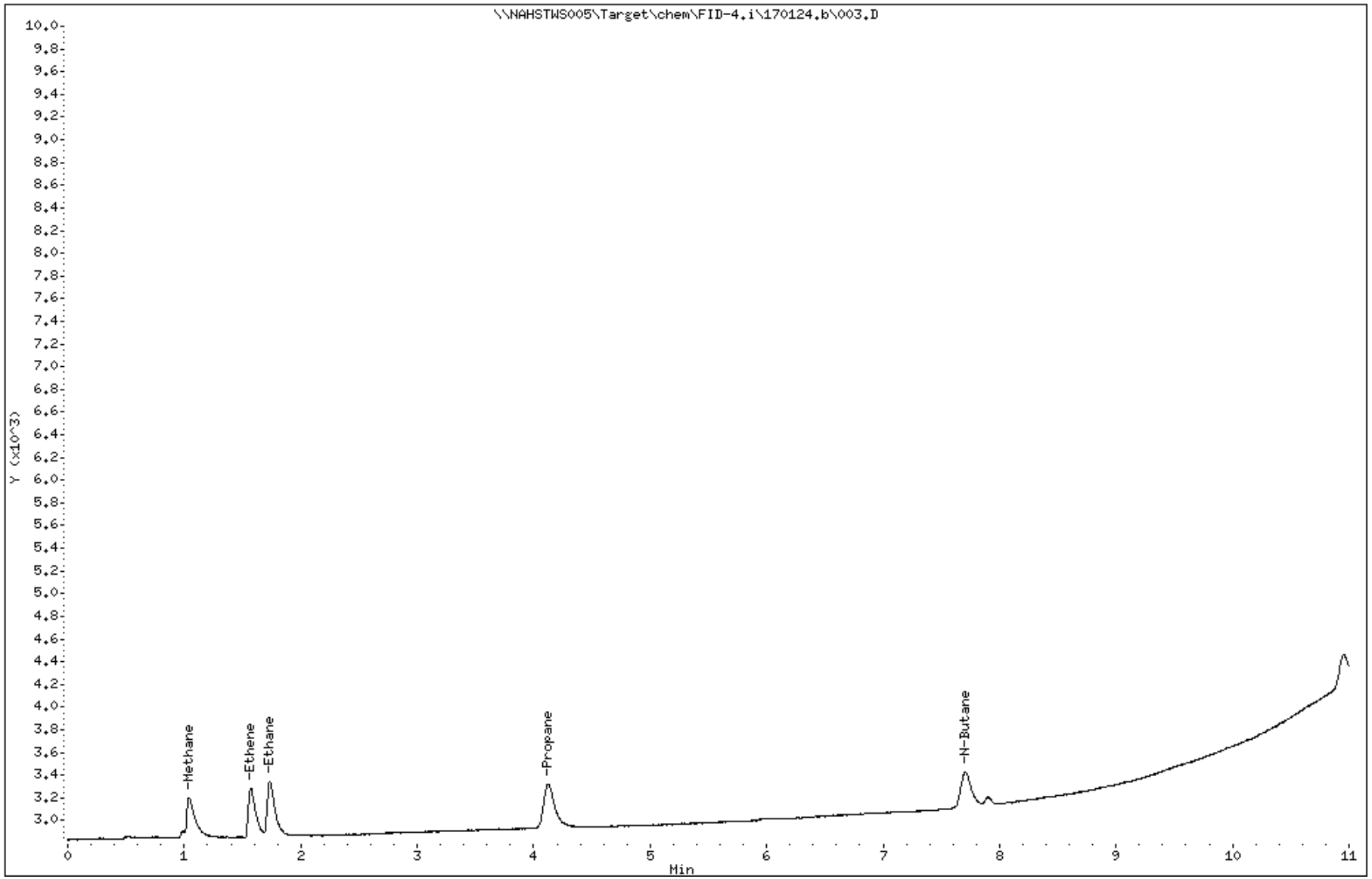
Instrument: FID-4.i

Sample Info: ICAL3;ICAL3;;;

Operator: MA

Column phase: Rtx-PLOT

Column diameter: 0.53



Data File : \\NAHSTWS005\Target\chem\FID-4.i\170124.b\003.D
Inj Date : 24-JAN-2017 09:59
InstruID : FID-4.i
LabSampID : ICAL3

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\FID-4.i\170124.b\004.D Page 1
Report Date: 28-Sep-2022 10:02

ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\NAHSTWS005\Target\chem\FID-4.i\170124.b\004.D
Lab Smp Id: ICAL4 Client Smp ID: ICAL4
Inj Date : 24-JAN-2017 10:15
Operator : MA Inst ID: FID-4.i
Smp Info : ICAL4;ICAL4;;;
Misc Info : ;1;0;1
Comment :
Method : \\NAHSTWS005\Target\chem\FID-4.i\170124.b\RSKNI2.m
Meth Date : 28-Sep-2022 10:02 FID-4.i Quant Type: ESTD
Cal Date : 24-JAN-2017 11:13 Cal File: 007.D
Als bottle: 4 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: stdNIP2.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
1 Methane	1.033	1.033	0.000	3399	3.85900	3.488
2 Ethene	1.563	1.563	0.000	3478	6.74000	5.932
3 Ethane	1.726	1.726	0.000	4310	7.21700	5.853
4 Propane	4.120	4.120	0.000	4785	10.5850	8.190
5 N-Butane	7.703	7.703	0.000	3864	13.9820	9.473(M)

QC Flag Legend

M - Compound response manually integrated.

01321295

Data File: \\NAHSTWS005\Target\chem\FID-4.i\170124.b\004.D

Page 1

Date : 24-JAN-2017 10:15

Client ID: ICAL4

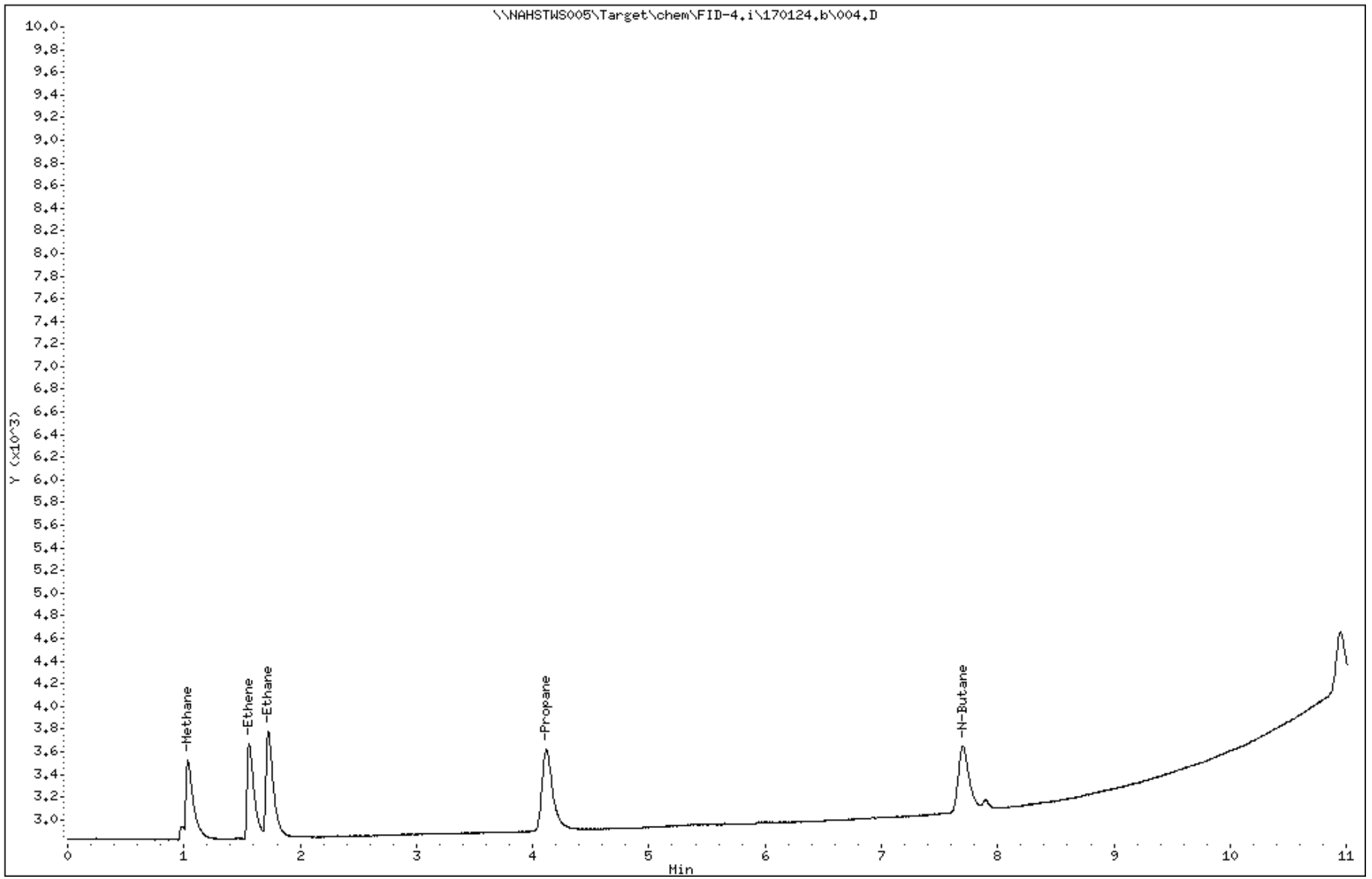
Instrument: FID-4.i

Sample Info: ICAL4;ICAL4;;;

Operator: MA

Column phase: Rtx-PLOT

Column diameter: 0.53



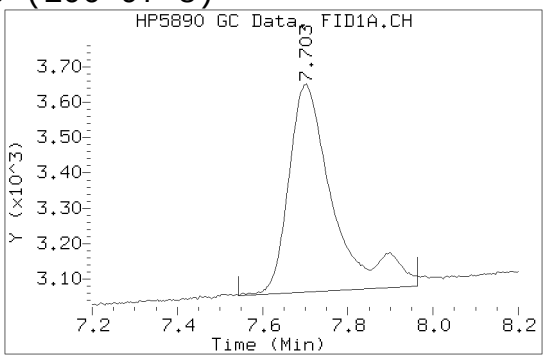
Data File : \\NAHSTWS005\Target\chem\FID-4.i\170124.b\004.D
Inj Date : 24-JAN-2017 10:15
InstruID : FID-4.i
LabSampID : ICAL4

N-Butane (106-97-8)

Reason Code:

BEFORE

MASS
100
AREA
4292
HEIGHT
591
28-Sep-2022
10:02
linh
pham



AFTER

MASS
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AREA
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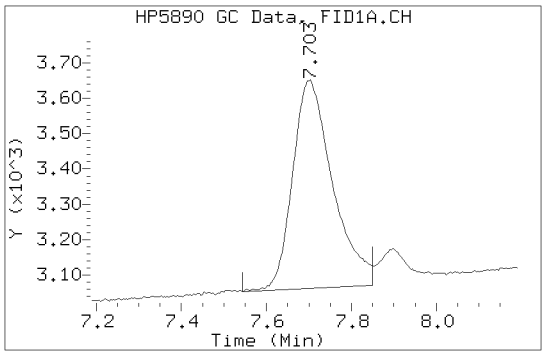
HEIGHT
591
28-Sep-2022
10:02
linh
pham



Data File: \\NAHSTWS005\Target\chem\FID-4.i\170124.b\005.D Page 1
Report Date: 28-Sep-2022 10:02

ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\NAHSTWS005\Target\chem\FID-4.i\170124.b\005.D
Lab Smp Id: ICAL5 Client Smp ID: ICAL5
Inj Date : 24-JAN-2017 10:39
Operator : MA Inst ID: FID-4.i
Smp Info : ICAL5;ICAL5;;;
Misc Info : ;1;0;1
Comment :
Method : \\NAHSTWS005\Target\chem\FID-4.i\170124.b\RSKNI2.m
Meth Date : 28-Sep-2022 10:02 FID-4.i Quant Type: ESTD
Cal Date : 24-JAN-2017 10:15 Cal File: 004.D
Als bottle: 5 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: stdNIP2.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Methane	1.043	1.043	0.000	9268	9.64700	9.511
2 Ethene	1.570	1.570	0.000	11210	16.8500	19.121
3 Ethane	1.733	1.733	0.000	14588	18.0430	19.811
4 Propane	4.120	4.120	0.000	18294	26.4630	27.415
5 N-Butane	7.700	7.700	0.000	18446	34.9550	34.419(M)

QC Flag Legend

M - Compound response manually integrated.

01321298

Data File: \\NAHSTWS005\Target\chem\FID-4.i\170124.b\005.D

Page 1

Date : 24-JAN-2017 10:39

Client ID: ICAL5

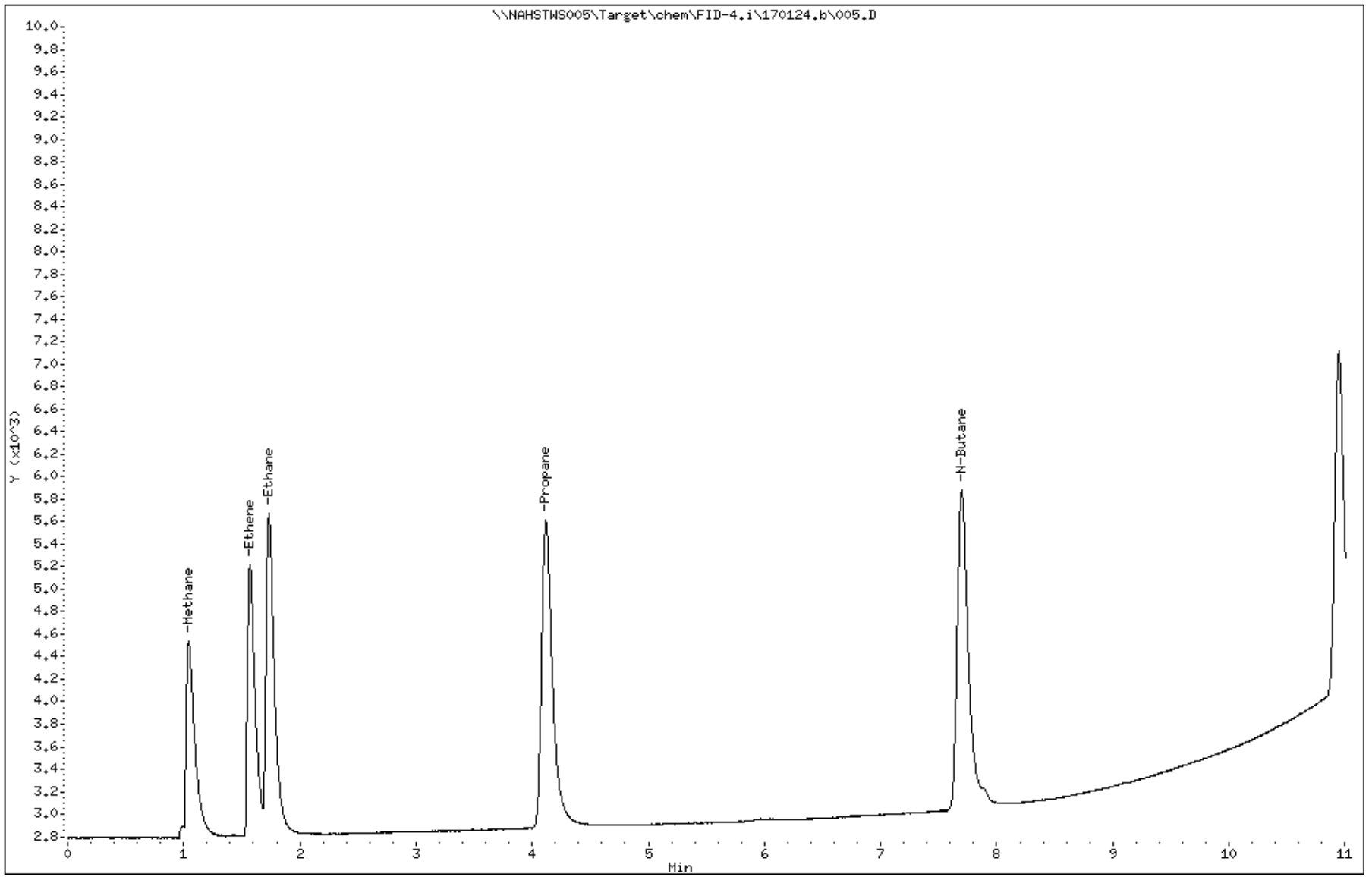
Instrument: FID-4.i

Sample Info: ICAL5;ICAL5;;;

Operator: MA

Column phase: Rtx-PLOT

Column diameter: 0.53



Data File : \\NAHSTWS005\Target\chem\FID-4.i\170124.b\005.D
Inj Date : 24-JAN-2017 10:39
InstruID : FID-4.i
LabSampID : ICAL5

N-Butane (106-97-8)

Reason Code:

BEFORE

MASS
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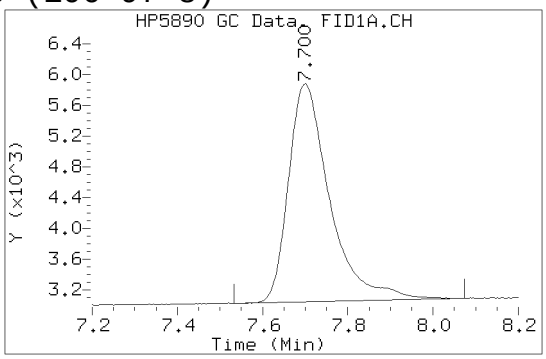
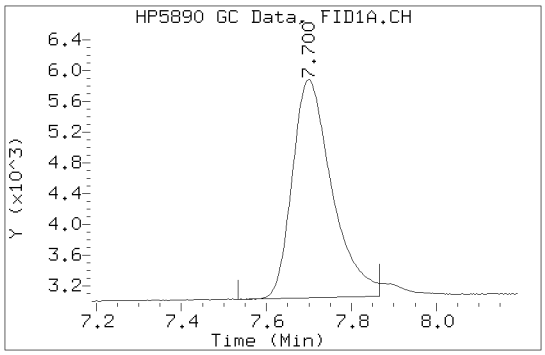
AREA
19142
HEIGHT
2839
28-Sep-2022
10:02
linh
pham



AFTER

MASS
100
AREA
18446
HEIGHT
2838
28-Sep-2022
10:02
linh
pham



Data File: \\NAHSTWS005\Target\chem\FID-4.i\170124.b\006.D Page 1
Report Date: 28-Sep-2022 10:00

ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\NAHSTWS005\Target\chem\FID-4.i\170124.b\006.D
Lab Smp Id: ICAL6 Client Smp ID: ICAL6
Inj Date : 24-JAN-2017 10:57
Operator : MA Inst ID: FID-4.i
Smp Info : ICAL6;ICAL6;;;
Misc Info : ;1;0;1
Comment :
Method : \\NAHSTWS005\Target\chem\FID-4.i\170124.b\RSKNI2.m
Meth Date : 28-Sep-2022 10:00 FID-4.i Quant Type: ESTD
Cal Date : 24-JAN-2017 10:39 Cal File: 005.D
Als bottle: 6 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: stdNIP2.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Methane	1.023	1.023	0.000	17957	19.2940	18.429
2 Ethene	1.550	1.550	0.000	22910	53.8200	39.078
3 Ethane	1.716	1.716	0.000	29505	36.0860	40.070
4 Propane	4.110	4.110	0.000	38286	52.9260	52.796
5 N-Butane	7.696	7.696	0.000	42817	69.9110	70.855

01321301

Data File: \\NAHSTWS005\Target\chem\FID-4.i\170124.b\006.D

Page 1

Date : 24-JAN-2017 10:57

Client ID: ICAL6

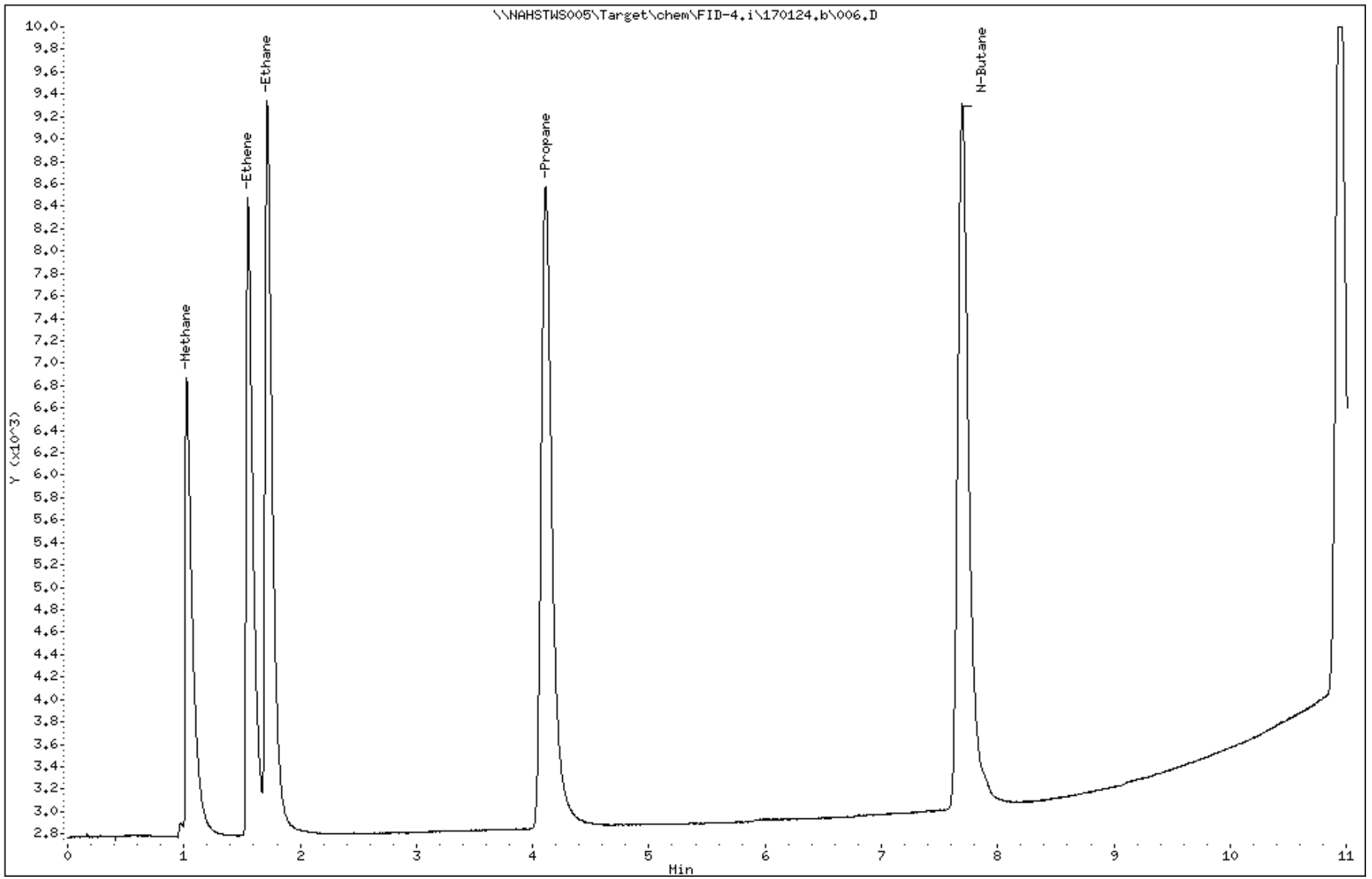
Instrument: FID-4.i

Sample Info: ICAL6;ICAL6;;;

Operator: MA

Column phase: Rtx-PLOT

Column diameter: 0.53



Data File : \\NAHSTWS005\Target\chem\FID-4.i\170124.b\006.D
Inj Date : 24-JAN-2017 10:57
InstruID : FID-4.i
LabSampID : ICAL6

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\FID-4.i\170124.b\007.D Page 1
Report Date: 28-Sep-2022 10:00

ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\NAHSTWS005\Target\chem\FID-4.i\170124.b\007.D
Lab Smp Id: ICAL7 Client Smp ID: ICAL7
Inj Date : 24-JAN-2017 11:13
Operator : MA Inst ID: FID-4.i
Smp Info : ICAL7;ICAL7;;;
Misc Info : ;1;0;1
Comment :
Method : \\NAHSTWS005\Target\chem\FID-4.i\170124.b\RSKNI2.m
Meth Date : 28-Sep-2022 10:00 FID-4.i Quant Type: ESTD
Cal Date : 24-JAN-2017 10:57 Cal File: 006.D
Als bottle: 7 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: stdNIP2.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Methane	1.030	1.030	0.000	41736	38.5880	42.833(A)
2 Ethene	1.556	1.556	0.000	55865	67.4000	95.291(A)
3 Ethane	1.723	1.723	0.000	72124	72.1720	97.951(A)
4 Propane	4.113	4.113	0.000	96509	105.852	105.844
5 N-Butane	7.690	7.690	0.000	114164	139.821	139.707

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

01321304

Data File: \\NAHSTWS005\Target\chem\FID-4.i\170124.b\007.D

Page 1

Date : 24-JAN-2017 11:13

Client ID: ICAL7

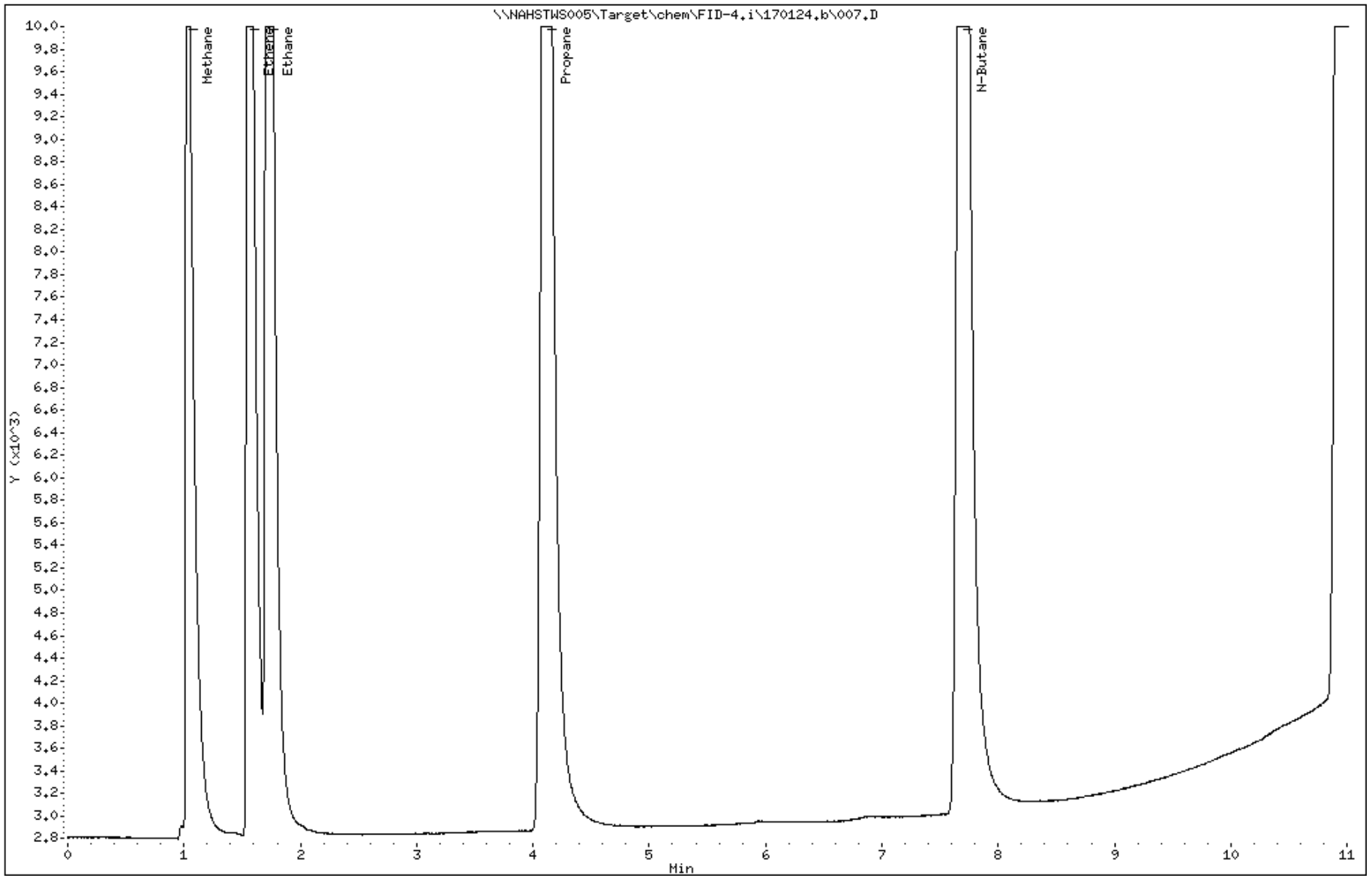
Instrument: FID-4.i

Sample Info: ICAL7;ICAL7;;;

Operator: MA

Column phase: Rtx-PLOT

Column diameter: 0.53



Data File : \\NAHSTWS005\Target\chem\FID-4.i\170124.b\007.D
Inj Date : 24-JAN-2017 11:13
InstruID : FID-4.i
LabSampID : ICAL7

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\FID-4.i\170124.b\008.D Page 1
Report Date: 28-Sep-2022 10:00

ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\NAHSTWS005\Target\chem\FID-4.i\170124.b\008.D
Lab Smp Id: ICV Client Smp ID: ICV
Inj Date : 24-JAN-2017 12:05
Operator : MA Inst ID: FID-4.i
Smp Info : ICV;ICV;;;
Misc Info : ;1;0;1
Comment :
Method : \\NAHSTWS005\Target\chem\FID-4.i\170124.b\RSKNI2.m
Meth Date : 28-Sep-2022 10:00 FID-4.i Quant Type: ESTD
Cal Date : 24-JAN-2017 11:13 Cal File: 007.D
Als bottle: 8 QC Sample: METHSPIKE
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: stdNIP2.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
1 Methane	1.046	1.030	0.016	9352	9.59792	9.597
2 Ethene	1.573	1.556	0.017	11192	19.0906	19.090
3 Ethane	1.736	1.723	0.013	14474	19.6571	19.657
4 Propane	4.116	4.113	0.003	18164	27.2381	27.238
5 N-Butane	7.696	7.690	0.006	19425	36.0103	36.010

01321307

Data File: \\NAHSTWS005\Target\chem\FID-4.i\170124.b\008.D

Page 1

Date : 24-JAN-2017 12:05

Client ID: ICV

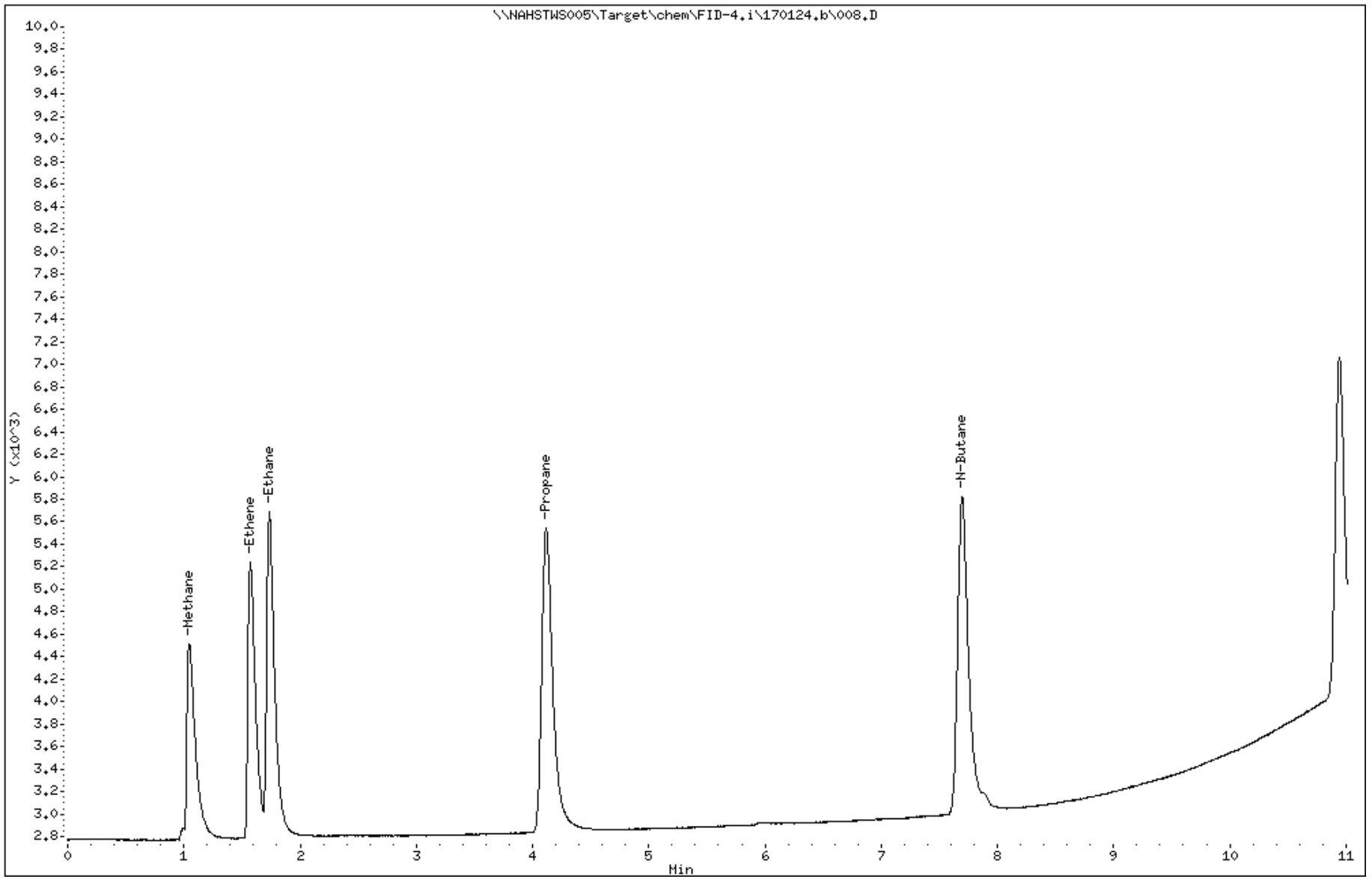
Instrument: FID-4.i

Sample Info: ICV;ICV;;;

Operator: MA

Column phase: Rtx-PLOT

Column diameter: 0.53



Data File : \\NAHSTWS005\Target\chem\FID-4.i\170124.b\008.D
Inj Date : 24-JAN-2017 12:05
InstruID : FID-4.i
LabSampID : ICV

NO MANUAL INTEGRATIONS

01321309

right solutions.
right partner.

Raw Data FID 4 441466

Dissolved Gasses by RSK-175

Workorder

HS23070658

Client

Aptim Environmental & Infrastucture, Inc.

Project

LHAAP 16 January 2023

07/27/2023

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Data File: \\nahstws005\Target\chem\FID-4.i\230713.b\033.D Page 1
Report Date: 13-Jul-2023 15:16

ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\nahstws005\Target\chem\FID-4.i\230713.b\033.D
Lab Smp Id: RSK-CCV Client Smp ID: RSK-CCV
Inj Date : 13-JUL-2023 14:57
Operator : PL Inst ID: FID-4.i
Smp Info : RSK-CCV;RSK-CCV;2;4
Misc Info : ;1;0;1
Comment :
Method : \\nahstws005\Target\chem\FID-4.i\230713.b\RSKNI3.m
Meth Date : 13-Jul-2023 15:16 samy.mata Quant Type: ESTD
Cal Date : 24-JAN-2017 10:15 Cal File: 004.D
Als bottle: 33 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: RSK175.sub
Target Version: 4.14
Processing Host: NAHSTW7022

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Methane	0.430	0.430	0.000	8545	9.64700	8.764
2 Ethene	0.643	0.643	0.000	8924	16.8500	15.234
3 Ethane	0.710	0.710	0.000	13294	18.0430	18.476

01321311

Data File: \\nahstws005\Target\chem\FID-4.i\230713.b\033.D

Page 1

Date : 13-JUL-2023 14:57

Client ID: RSK-CCV

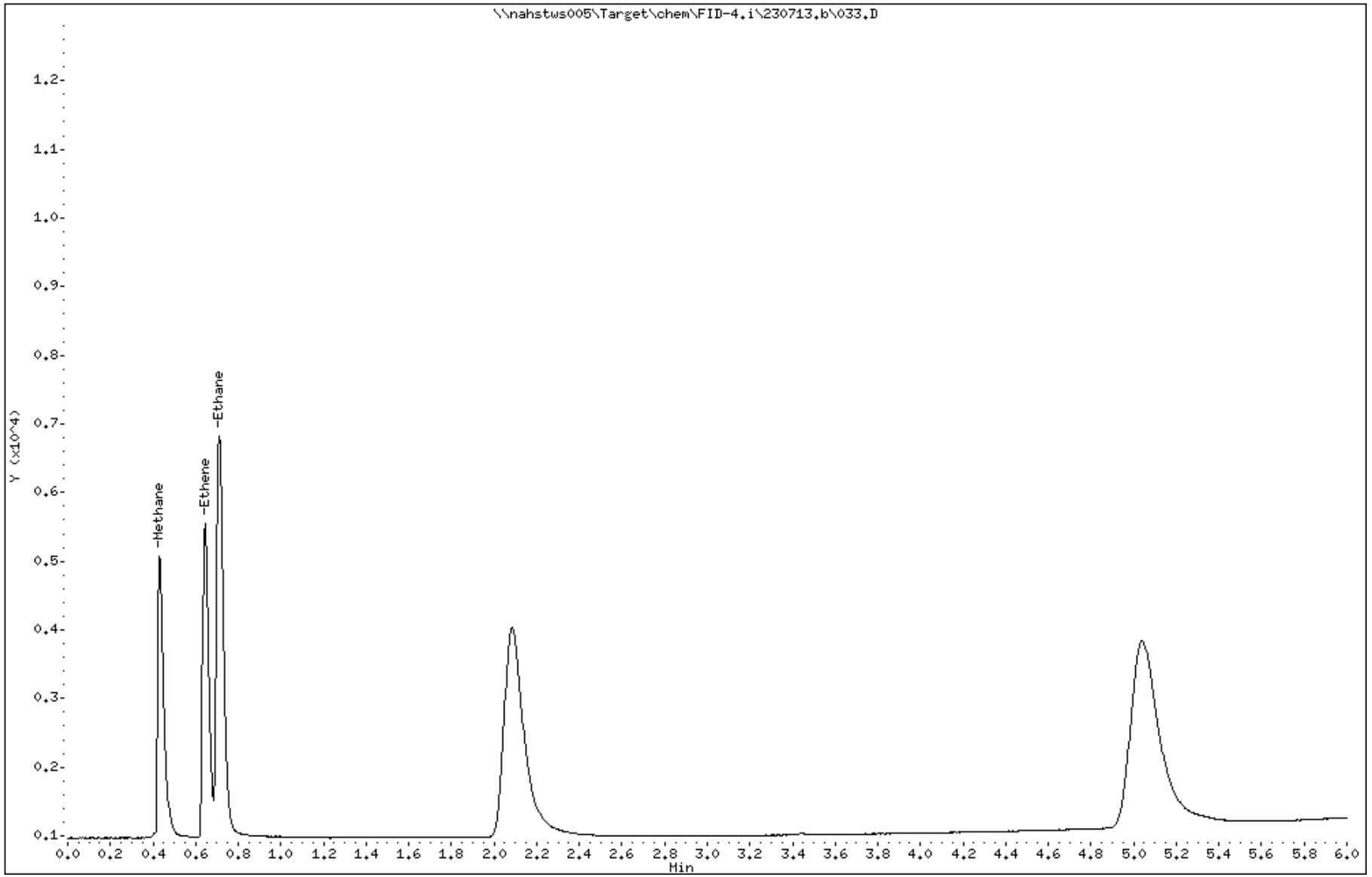
Instrument: FID-4.i

Sample Info: RSK-CCV;RSK-CCV;2;4

Operator: PL

Column phase: Rtx-PLOT

Column diameter: 0.53



Data File : \\nahstws005\Target\chem\FID-4.i\230713.b\033.D
Inj Date : 13-JUL-2023 14:57
InstruID : FID-4.i
LabSampID : RSK-CCV

NO MANUAL INTEGRATIONS

ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\nahstws005\Target\chem\FID-4.i\230713.b\039.D
Lab Smp Id: MBLK-230713 Client Smp ID: MBLK-230713
Inj Date : 13-JUL-2023 16:16
Operator : PL Inst ID: FID-4.i
Smp Info : MBLK-230713;MBLK-230713;3;;BLANK
Misc Info : ;1;0;1
Comment :
Method : \\nahstws005\Target\chem\FID-4.i\230713.b\RSKNI3.m
Meth Date : 13-Jul-2023 15:16 samy.mata Quant Type: ESTD
Cal Date : 24-JAN-2017 10:15 Cal File: 004.D
Als bottle: 39 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: RSK175.sub
Target Version: 4.14
Processing Host: NAHSTW7022

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)

01321314

Data File: \\nahstws005\Target\chem\FID-4.i\230713.b\039.D

Date : 13-JUL-2023 16:16

Client ID: MBLK-230713

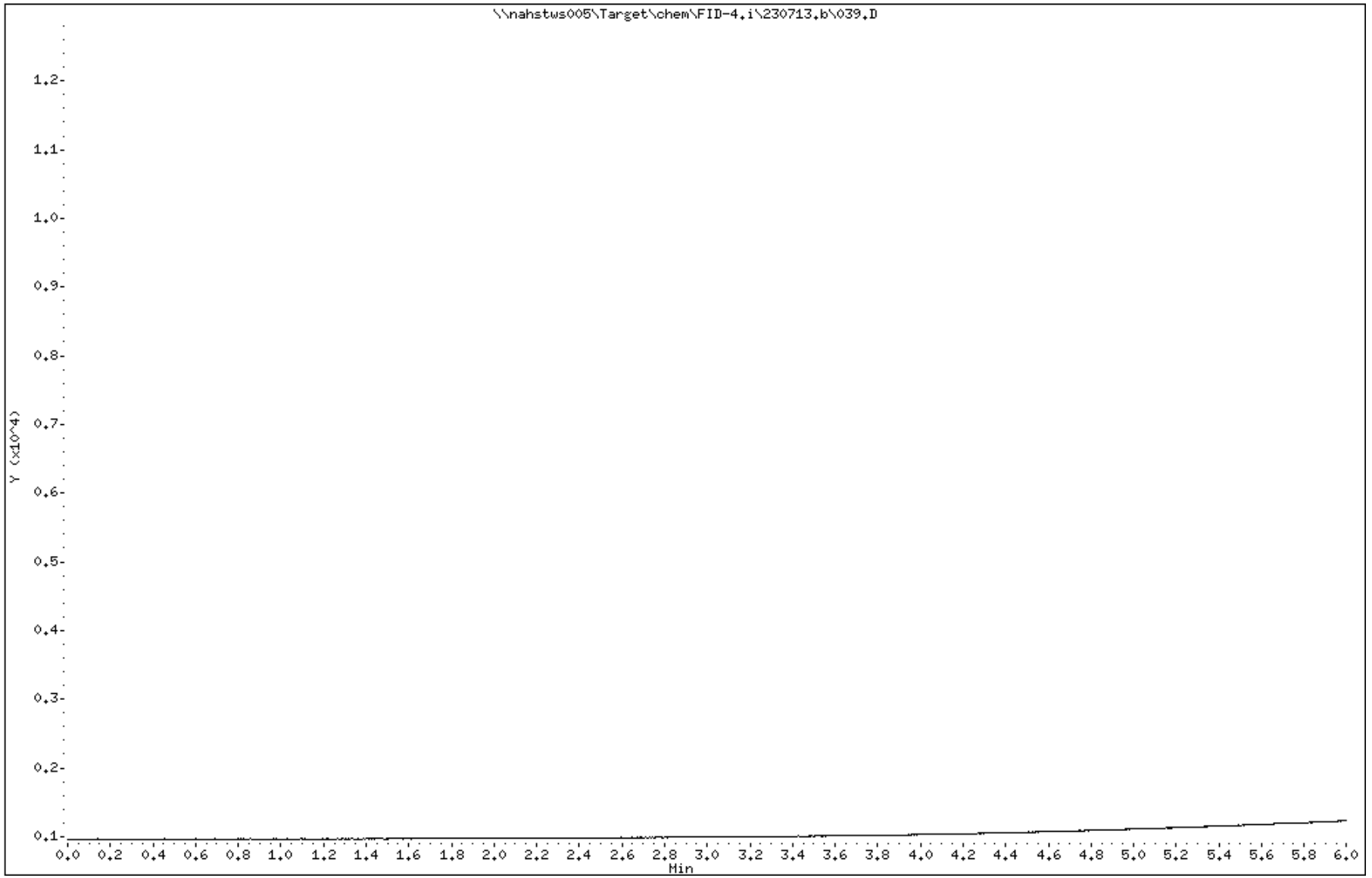
Instrument: FID-4.i

Sample Info: MBLK-230713;MBLK-230713;3;;BLANK

Operator: PL

Column phase: Rtx-PLOT

Column diameter: 0.53



Data File : \\nahstws005\Target\chem\FID-4.i\230713.b\039.D
Inj Date : 13-JUL-2023 16:16
InstruID : FID-4.i
LabSampID : MBLK-230713

NO MANUAL INTEGRATIONS

ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\nahstws005\Target\chem\FID-4.i\230713.b\040.D
Lab Smp Id: LCS-230713 Client Smp ID: LCS-230713
Inj Date : 13-JUL-2023 16:33
Operator : PL Inst ID: FID-4.i
Smp Info : LCS-230713;LCS-230713;3;;LCS
Misc Info : ;1;0;1
Comment :
Method : \\nahstws005\Target\chem\FID-4.i\230713.b\RSKNI3.m
Meth Date : 13-Jul-2023 15:16 samy.mata Quant Type: ESTD
Cal Date : 24-JAN-2017 10:15 Cal File: 004.D
Als bottle: 40 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: RSK175.sub
Target Version: 4.14
Processing Host: NAHSTW7022

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
1 Methane	0.430	0.430	0.000	8525	8.74366	8.743
2 Ethene	0.643	0.643	0.000	9043	15.4381	15.438
3 Ethane	0.710	0.710	0.000	13491	18.7508	18.750

01321317

Data File: \\nahstws005\target\chem\fid-4.i\230713.b\040.d

Page 1

Date : 13-JUL-2023 16:33

Client ID: LCS-230713

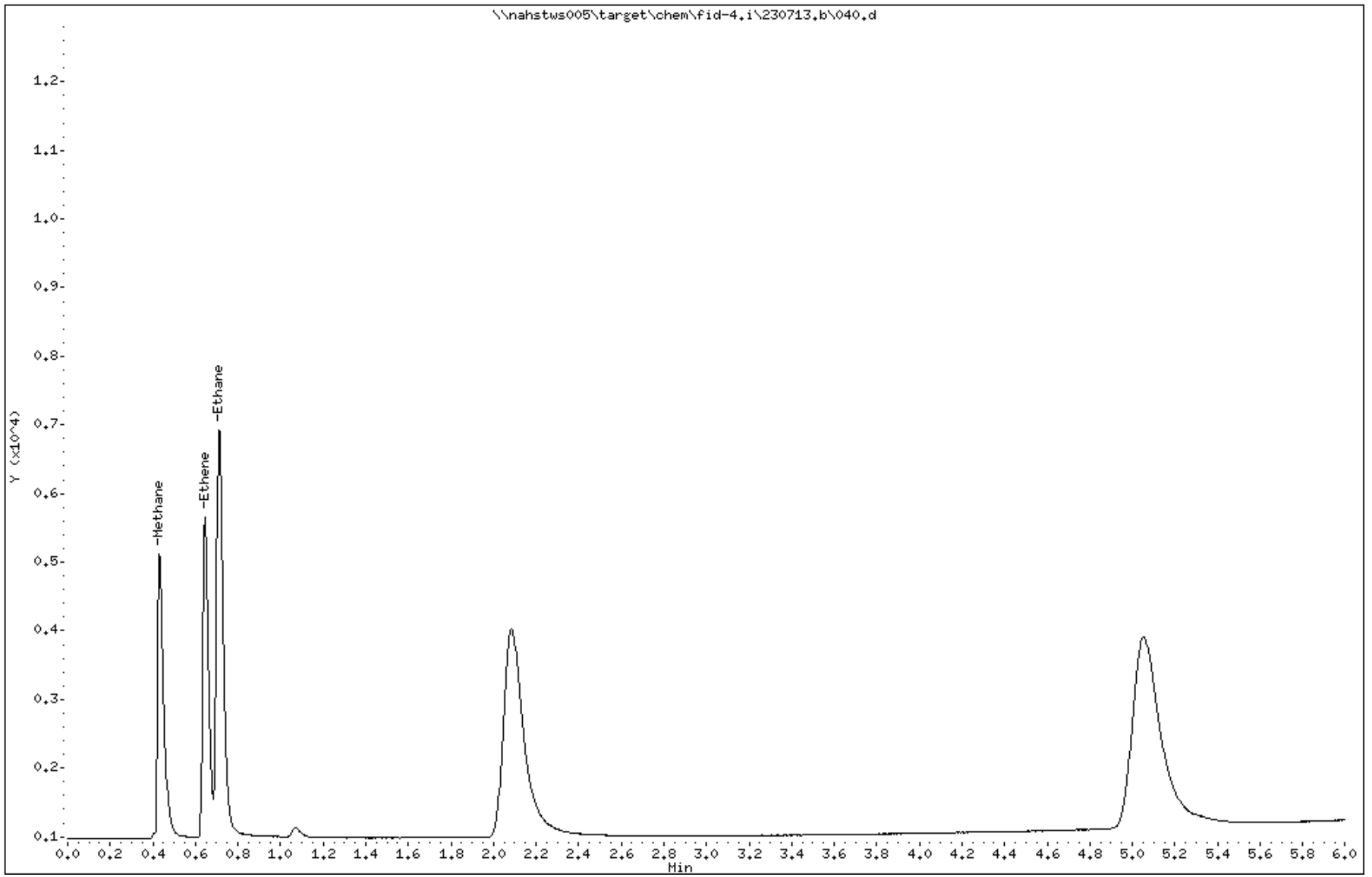
Instrument: FID-4.i

Sample Info: LCS-230713;LCS-230713;3;;LCS

Operator: PL

Column phase: Rtx-PLOT

Column diameter: 0.53



Data File : \\nahstws005\target\chem\fid-4.i\230713.b\040.d
Inj Date : 13-JUL-2023 16:33
InstruID : FID-4.i
LabSampID : LCS-230713

NO MANUAL INTEGRATIONS

Data File: \\nahstws005\Target\chem\FID-4.i\230713.b\041.D Page 1
Report Date: 13-Jul-2023 16:57

ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\nahstws005\Target\chem\FID-4.i\230713.b\041.D
Lab Smp Id: LCSD-230713 Client Smp ID: LCSD-230713
Inj Date : 13-JUL-2023 16:41
Operator : PL Inst ID: FID-4.i
Smp Info : LCSD-230713;LCSD-230713;3;;LCSD
Misc Info : ;1;0;1
Comment :
Method : \\nahstws005\Target\chem\FID-4.i\230713.b\RSKNI3.m
Meth Date : 13-Jul-2023 15:16 samy.mata Quant Type: ESTD
Cal Date : 24-JAN-2017 10:15 Cal File: 004.D
Als bottle: 41 QC Sample: LCSD
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: RSK175.sub
Target Version: 4.14
Processing Host: NAHSTW7022

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
1 Methane	0.426	0.430	-0.004	8548	8.76725	8.767
2 Ethene	0.643	0.643	0.000	8880	15.1598	15.159(M)
3 Ethane	0.713	0.710	0.003	13024	18.1017	18.101(M)

QC Flag Legend

M - Compound response manually integrated.

01321320

Data File: \\nahstws005\Target\chem\FID-4.i\230713.b\041.D

Date : 13-JUL-2023 16:41

Client ID: LCSD-230713

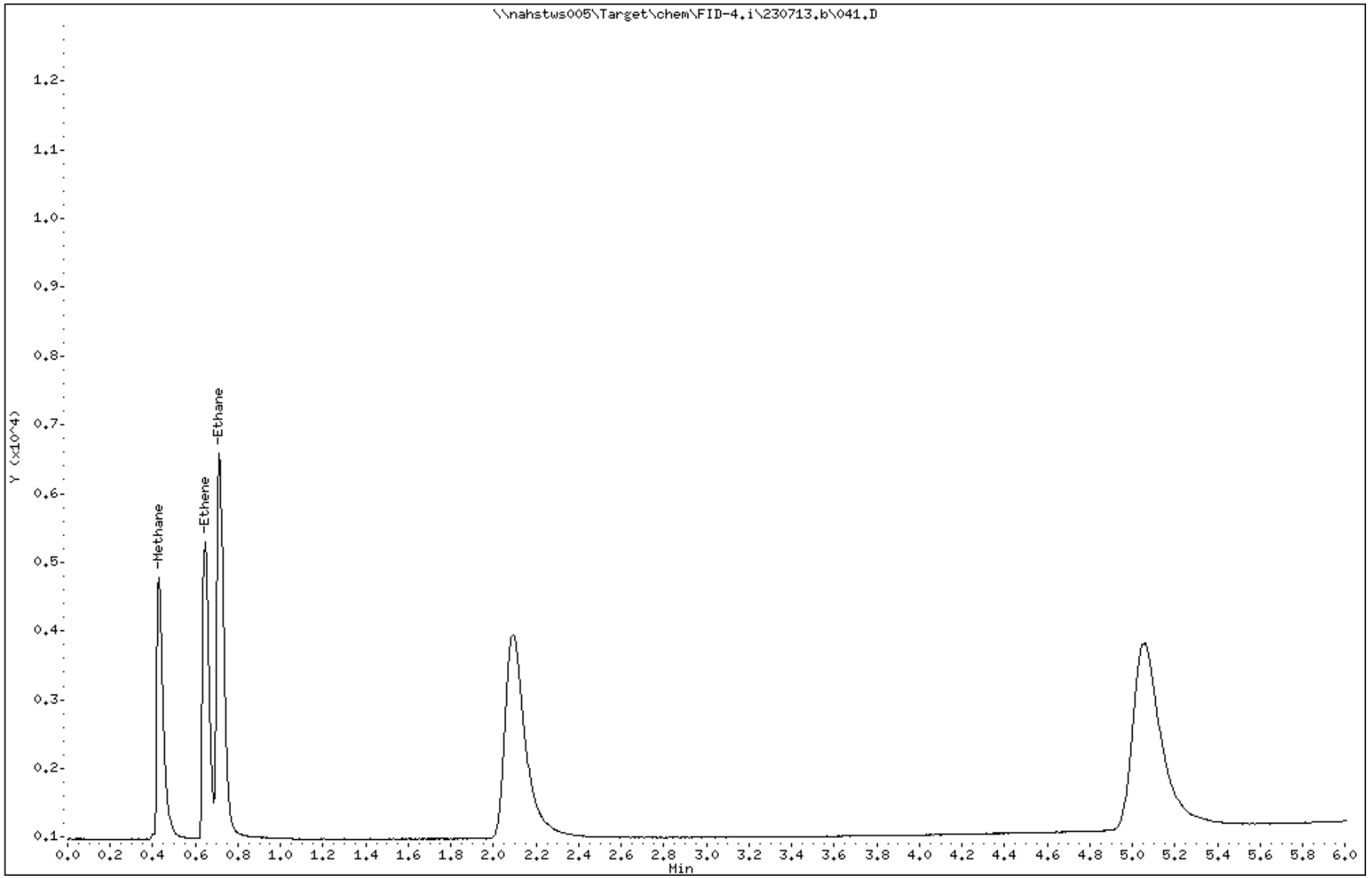
Instrument: FID-4.i

Sample Info: LCSD-230713;LCSD-230713;3;;LCSD

Operator: PL

Column phase: Rtx-PLOT

Column diameter: 0.53



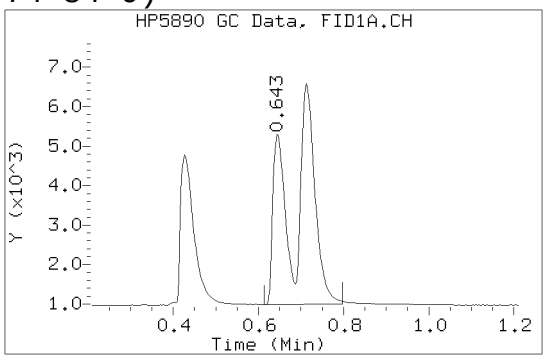
Data File : \\nahstws005\Target\chem\FID-4.i\230713.b\041.D
Inj Date : 13-JUL-2023 16:41
InstruID : FID-4.i
LabSampID : LCSD-230713

Ethane (74-84-0)

Reason Code:

BEFORE

MASS
44
AREA
21459
HEIGHT
4305
13-Jul-2023
16:48
ALSHS
Server



AFTER

MASS
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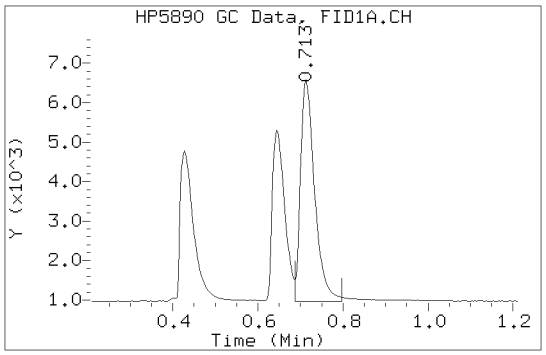
AREA
13024
HEIGHT
5615
13-Jul-2023
16:57
ALSHS
Ser

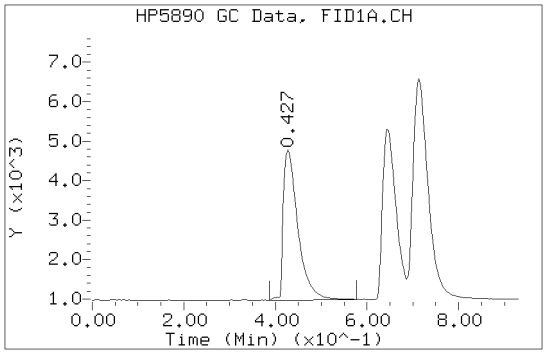


Ethene (74-85-1)

Reason Code:

BEFORE

MASS
100
AREA
0
HEIGHT
0
13-Jul-2023
16:48
ALSHS
Server



AFTER

MASS
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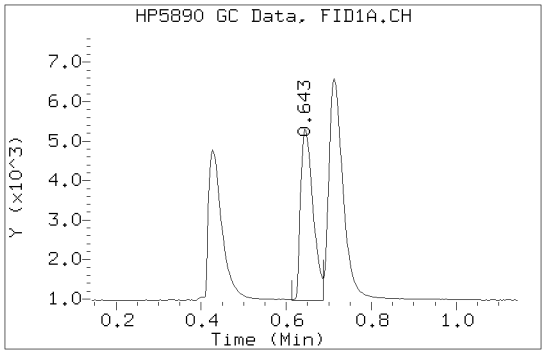
AREA
8880
HEIGHT
4328
13-Jul-2023
16:57
ALSHS
Ser



Data File: \\nahstws005\Target\chem\FID-4.i\230713.b\043.D Page 1
Report Date: 13-Jul-2023 17:13

ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\nahstws005\Target\chem\FID-4.i\230713.b\043.D
Lab Smp Id: HS23070546-03MS Client Smp ID: HS23070546-03MS
Inj Date : 13-JUL-2023 16:59
Operator : PL Inst ID: FID-4.i
Smp Info : HS23070546-03MS;HS23070546-03MS
Misc Info : ;1;0;1
Comment :
Method : \\nahstws005\Target\chem\FID-4.i\230713.b\RSKNI3.m
Meth Date : 13-Jul-2023 15:16 samy.mata Quant Type: ESTD
Cal Date : 24-JAN-2017 10:15 Cal File: 004.D
Als bottle: 43 QC Sample: MS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: RSK175.sub
Target Version: 4.14
Processing Host: NAHSTW7022

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
1 Methane	0.436	0.430	0.006	1688807	1732.12	1732.123(AR)
2 Ethene	0.643	0.643	0.000	17723	30.2564	30.256(M)
3 Ethane	0.713	0.710	0.003	20432	28.3979	28.397(RM)

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

01321323

Data File: \\nahstws005\Target\chem\FID-4.i\230713.b\043.D

Date : 13-JUL-2023 16:59

Client ID: HS23070546-03MS

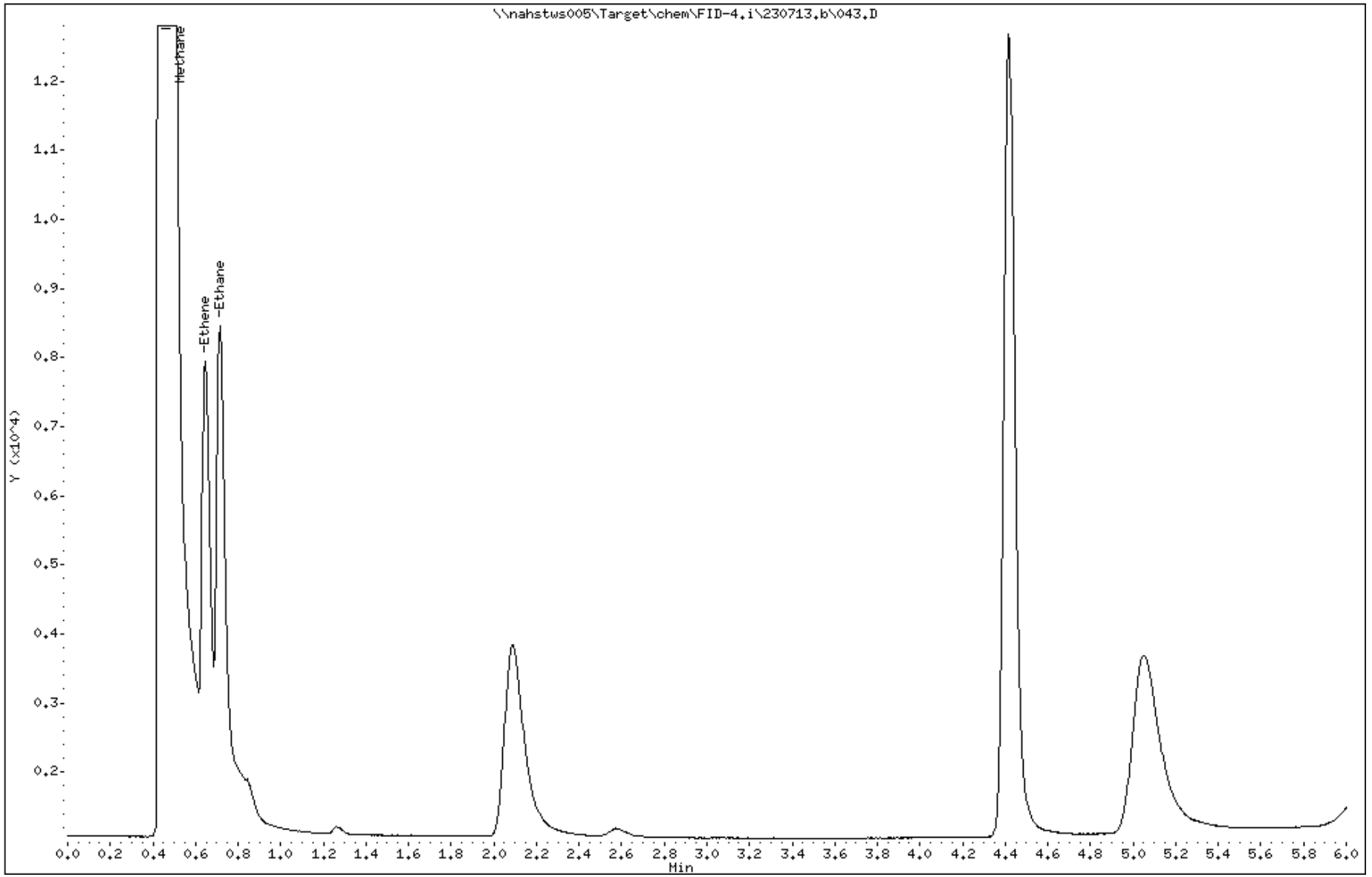
Instrument: FID-4.i

Sample Info: HS23070546-03MS;HS23070546-03MS

Operator: PL

Column phase: Rtx-PLOT

Column diameter: 0.53



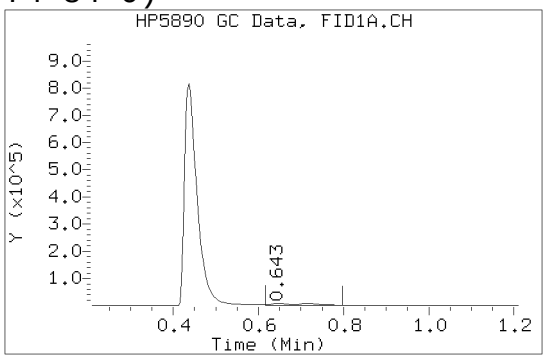
Data File : \\nahstws005\Target\chem\FID-4.i\230713.b\043.D
Inj Date : 13-JUL-2023 16:59
InstruID : FID-4.i
LabSampID : HS23070546-03MS

Ethane (74-84-0)

Reason Code:

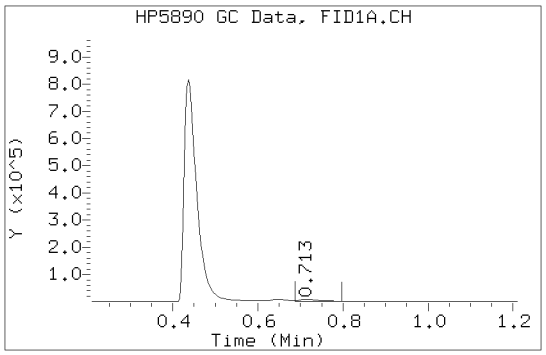
BEFORE

MASS
44
AREA
37545
HEIGHT
6415
13-Jul-2023
17:07
ALSHS
Server



AFTER

MASS
44
AREA
20432
HEIGHT
6919
13-Jul-2023
17:13
ALSHS
Ser

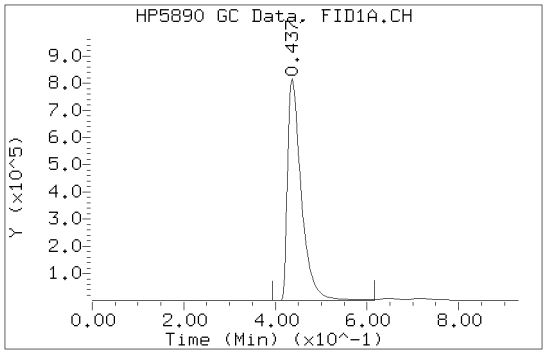


Ethene (74-85-1)

Reason Code:

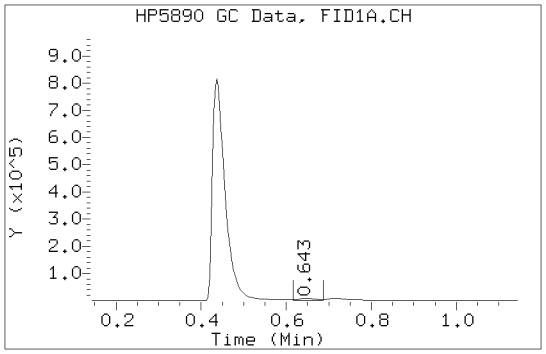
BEFORE

MASS
100
AREA
0
HEIGHT
0
13-Jul-2023
17:07
ALSHS
Server



AFTER

MASS
100
AREA
17723
HEIGHT
6413
13-Jul-2023
17:13
ALSHS
Ser



Data File: \\nahstws005\Target\chem\FID-4.i\230713.b\044.D Page 1
Report Date: 13-Jul-2023 17:30

ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\nahstws005\Target\chem\FID-4.i\230713.b\044.D
Lab Smp Id: RSK-CCV Client Smp ID: RSK-CCV
Inj Date : 13-JUL-2023 17:10
Operator : PL Inst ID: FID-4.i
Smp Info : RSK-CCV;RSK-CCV;2;4
Misc Info : ;1;0;1
Comment :
Method : \\nahstws005\Target\chem\FID-4.i\230713.b\RSKNI3.m
Meth Date : 13-Jul-2023 17:29 samy.mata Quant Type: ESTD
Cal Date : 24-JAN-2017 10:15 Cal File: 004.D
Als bottle: 44 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: RSK175.sub
Target Version: 4.14
Processing Host: NAHSTW7022

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
1 Methane	0.430	0.430	0.000	8411	9.64700	8.626(M)
2 Ethene	0.640	0.640	0.000	8889	16.8500	15.175(M)
3 Ethane	0.710	0.710	0.000	13288	18.0430	18.468(M)

QC Flag Legend

M - Compound response manually integrated.

01321326

Data File: \\nahstws005\Target\chem\FID-4.i\230713.b\044.D

Page 1

Date : 13-JUL-2023 17:10

Client ID: RSK-CCV

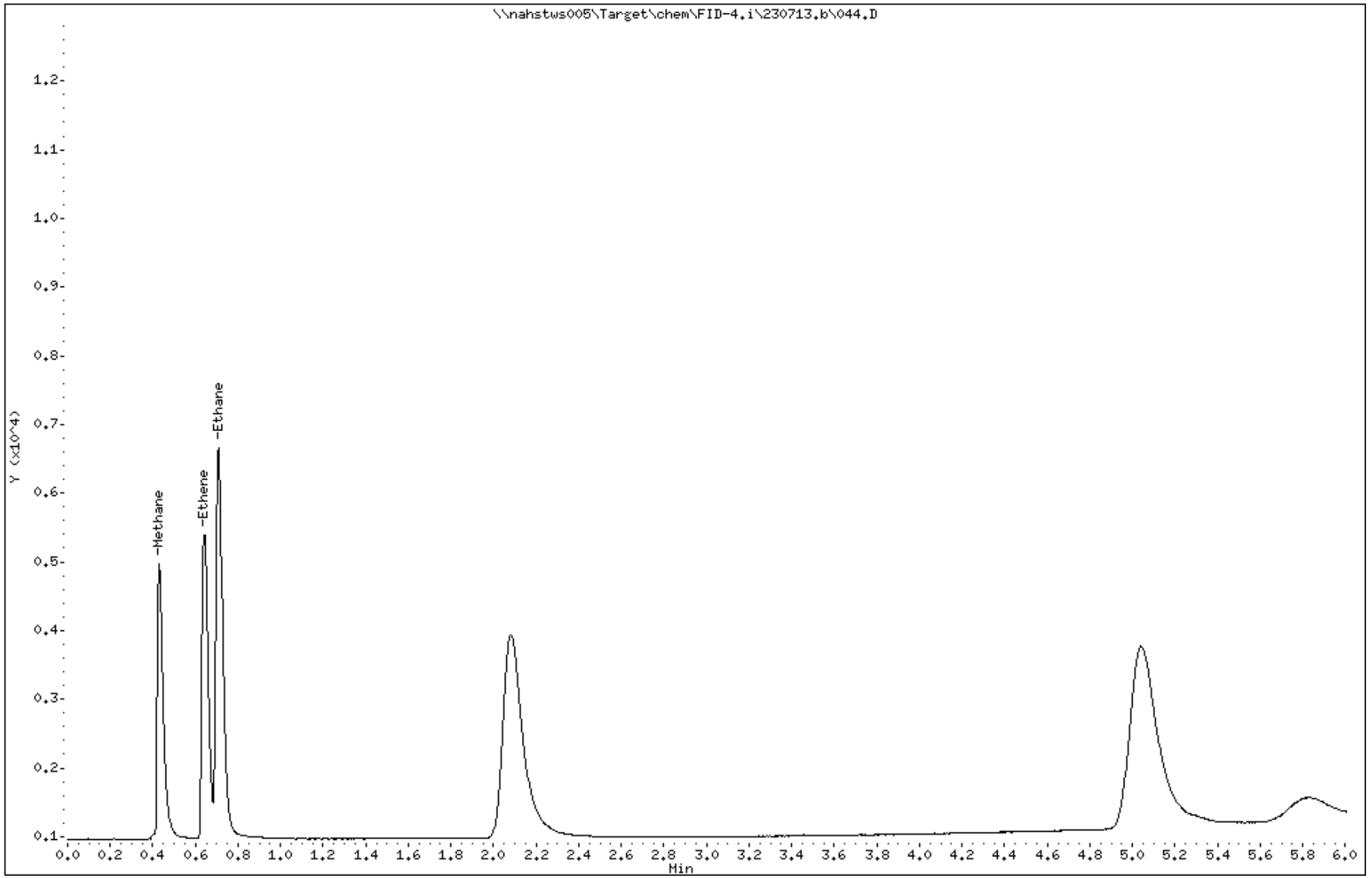
Instrument: FID-4.i

Sample Info: RSK-CCV;RSK-CCV;2;4

Operator: PL

Column phase: Rtx-PLOT

Column diameter: 0.53



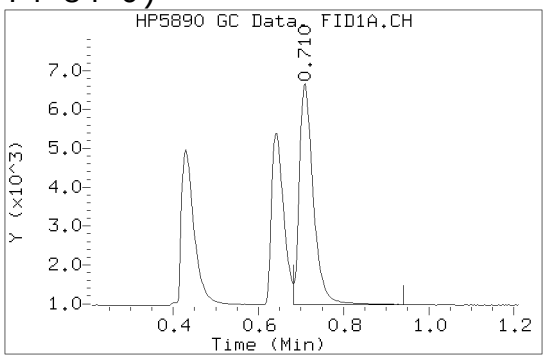
Data File : \\nahstws005\Target\chem\FID-4.i\230713.b\044.D
Inj Date : 13-JUL-2023 17:10
InstruID : FID-4.i
LabSampID : RSK-CCV

Ethane (74-84-0)

Reason Code:

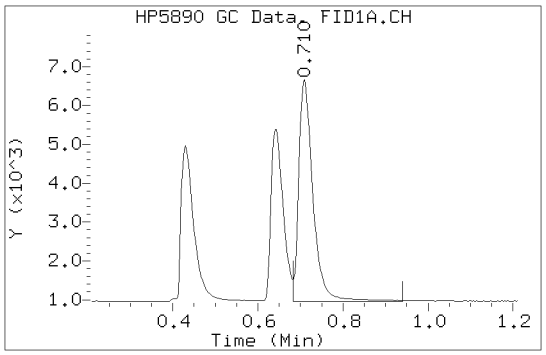
BEFORE

MASS
44
AREA
13055
HEIGHT
5691
13-Jul-2023
17:18
ALSHS
Server



AFTER

MASS
44
AREA
13288
HEIGHT
5702
13-Jul-2023
17:30
ALSHS
Ser

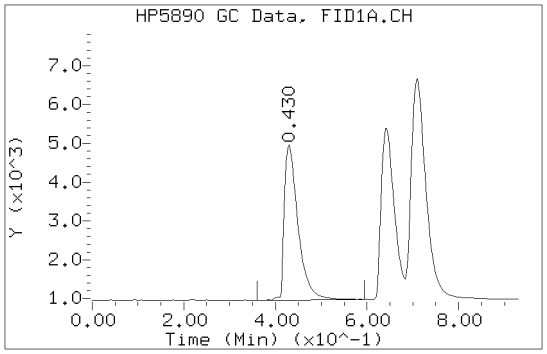


Methane (74-82-8)

Reason Code:

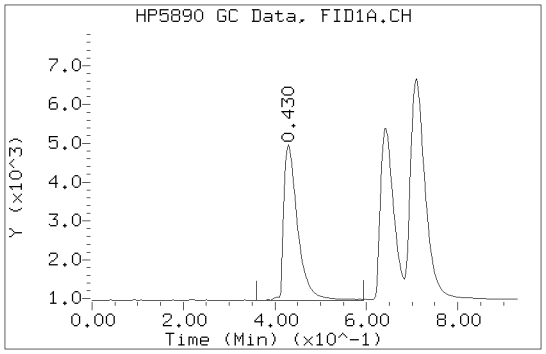
BEFORE

MASS
100
AREA
0
HEIGHT
0
13-Jul-2023
17:18
ALSHS
Server



AFTER

MASS
100
AREA
8411
HEIGHT
4009
13-Jul-2023
17:30
ALSHS
Ser

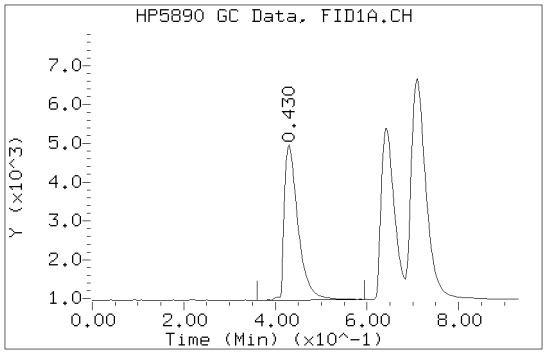


Ethene (74-85-1)

Reason Code:

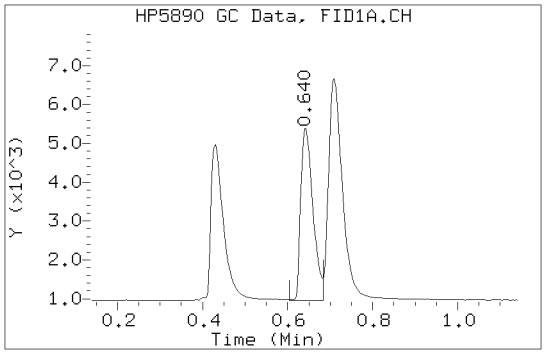
BEFORE

MASS
100
AREA
0
HEIGHT
0
13-Jul-2023
17:18
ALSHS
Server



AFTER

MASS
100
AREA
8889
HEIGHT
4425
13-Jul-2023
17:30
ALSHS
Ser



Data File: \\nahstws005\Target\chem\FID-4.i\230713.b\045.D Page 1
Report Date: 13-Jul-2023 17:37

ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\nahstws005\Target\chem\FID-4.i\230713.b\045.D
Lab Smp Id: HS23070546-03MSD Client Smp ID: HS23070546-03MSD
Inj Date : 13-JUL-2023 17:25
Operator : JA Inst ID: FID-4.i
Smp Info : HS23070546-03MSD;HS23070546-03MSD
Misc Info :
Comment :
Method : \\nahstws005\Target\chem\FID-4.i\230713.b\RSKNI3.m
Meth Date : 13-Jul-2023 17:29 samy.mata Quant Type: ESTD
Cal Date : 24-JAN-2017 10:15 Cal File: 004.D
Als bottle: 45 QC Sample: MSD
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: RSK175.sub
Target Version: 4.14
Processing Host: NAHSTW7022

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
1 Methane	0.436	0.430	0.006	1684384	1727.59	1727.586(AR)
2 Ethene	0.643	0.640	0.003	18061	30.8334	30.833(M)
3 Ethane	0.713	0.710	0.003	18599	25.8503	25.850(RM)

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

01321329

Data File: \\nahstws005\Target\chem\FID-4.i\230713.b\045.D

Page 1

Date : 13-JUL-2023 17:25

Client ID: HS23070546-03MSD

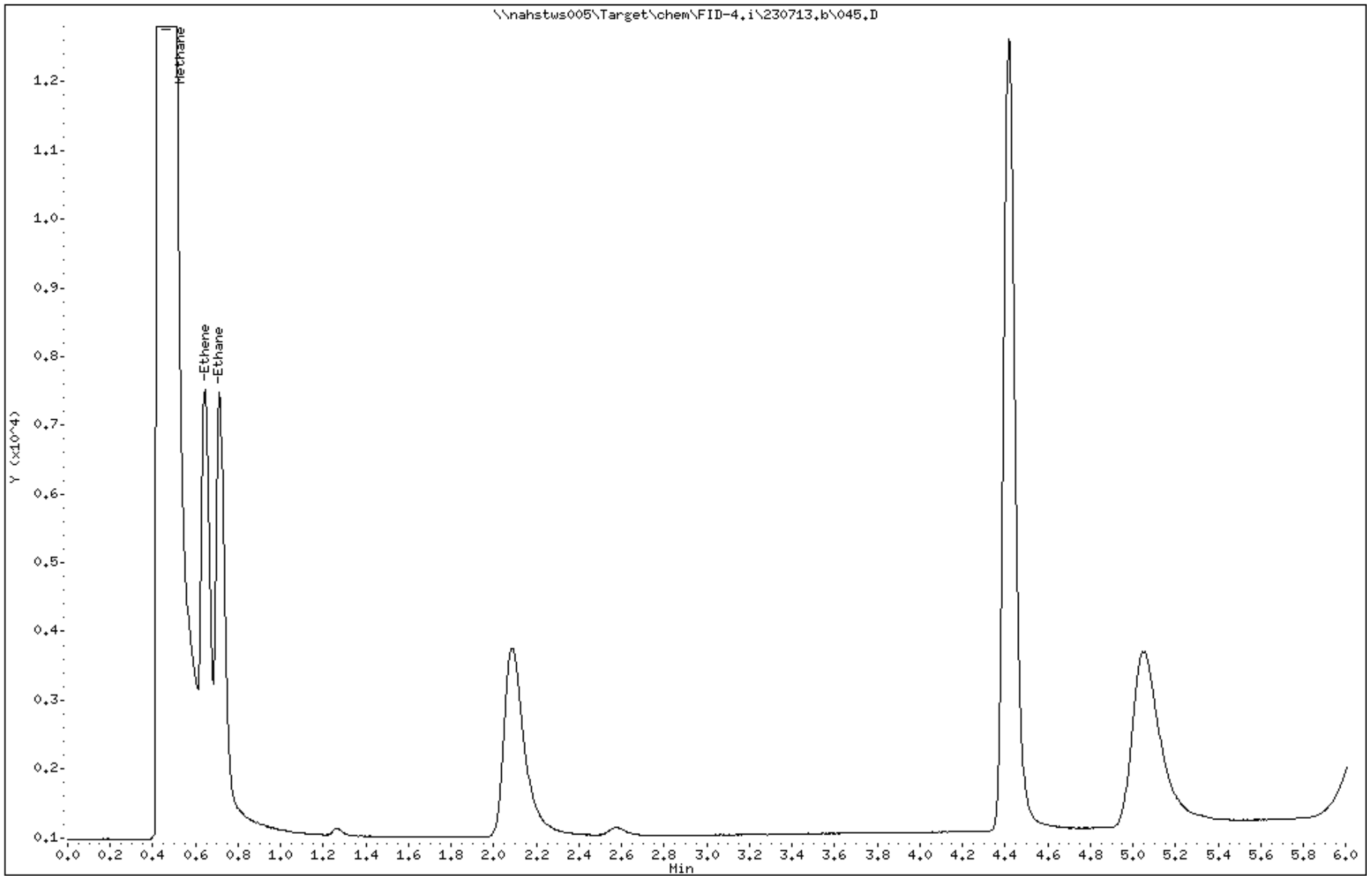
Instrument: FID-4.i

Sample Info: HS23070546-03MSD;HS23070546-03MSD

Operator: JA

Column phase: Rtx-PLOT

Column diameter: 0.53



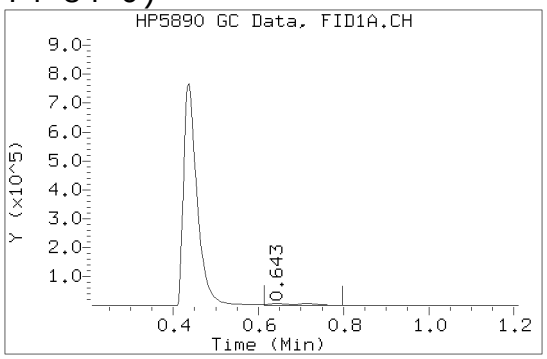
Data File : \\nahstws005\Target\chem\FID-4.i\230713.b\045.D
Inj Date : 13-JUL-2023 17:25
InstruID : FID-4.i
LabSampID : HS23070546-03MSD

Ethane (74-84-0)

Reason Code:

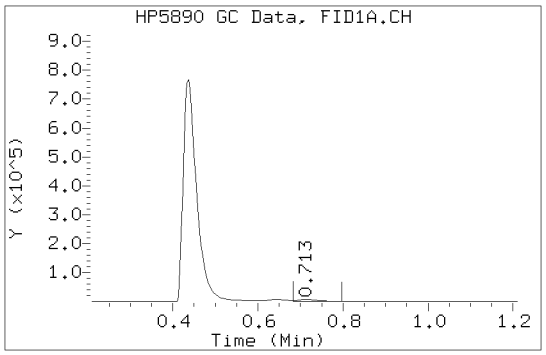
BEFORE

MASS
44
AREA
36037
HEIGHT
6336
13-Jul-2023
17:36
samy
mata



AFTER

MASS
44
AREA
18599
HEIGHT
6286
13-Jul-2023
17:37
samy
mata

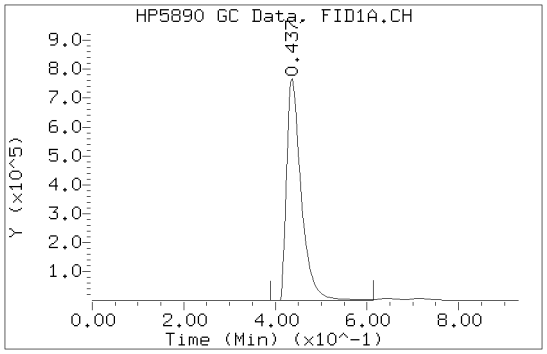


Ethene (74-85-1)

Reason Code:

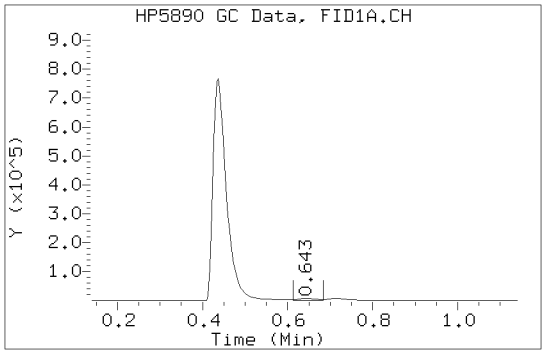
BEFORE

MASS
100
AREA
0
HEIGHT
0
13-Jul-2023
17:36
samy
mata



AFTER

MASS
100
AREA
18061
HEIGHT
6335
13-Jul-2023
17:37
samy
mata



Data File: \\nahstws005\Target\chem\FID-4.i\230713.b\051.D Page 1
Report Date: 13-Jul-2023 18:31

ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\nahstws005\Target\chem\FID-4.i\230713.b\051.D
Lab Smp Id: HS23070658-01 Client Smp ID: HS23070658-01
Inj Date : 13-JUL-2023 18:20
Operator : JA Inst ID: FID-4.i
Smp Info : HS23070658-01;HS23070658-01
Misc Info :
Comment :
Method : \\nahstws005\Target\chem\FID-4.i\230713.b\RSKNI3.m
Meth Date : 13-Jul-2023 17:29 samy.mata Quant Type: ESTD
Cal Date : 24-JAN-2017 10:15 Cal File: 004.D
Als bottle: 51
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: RSK175.sub
Target Version: 4.14
Processing Host: NAHSTW7022

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
1 Methane	0.430	0.430	0.000	1586087	1626.77	1626.768(A)
2 Ethene	0.640	0.640	0.000	20106	34.3246	34.324(M)
3 Ethane	0.693	0.710	-0.017	7003	9.73329	9.733(M)

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

01321332

Data File: \\nahstws005\Target\chem\FID-4.i\230713.b\051.D

Date : 13-JUL-2023 18:20

Client ID: HS23070658-01

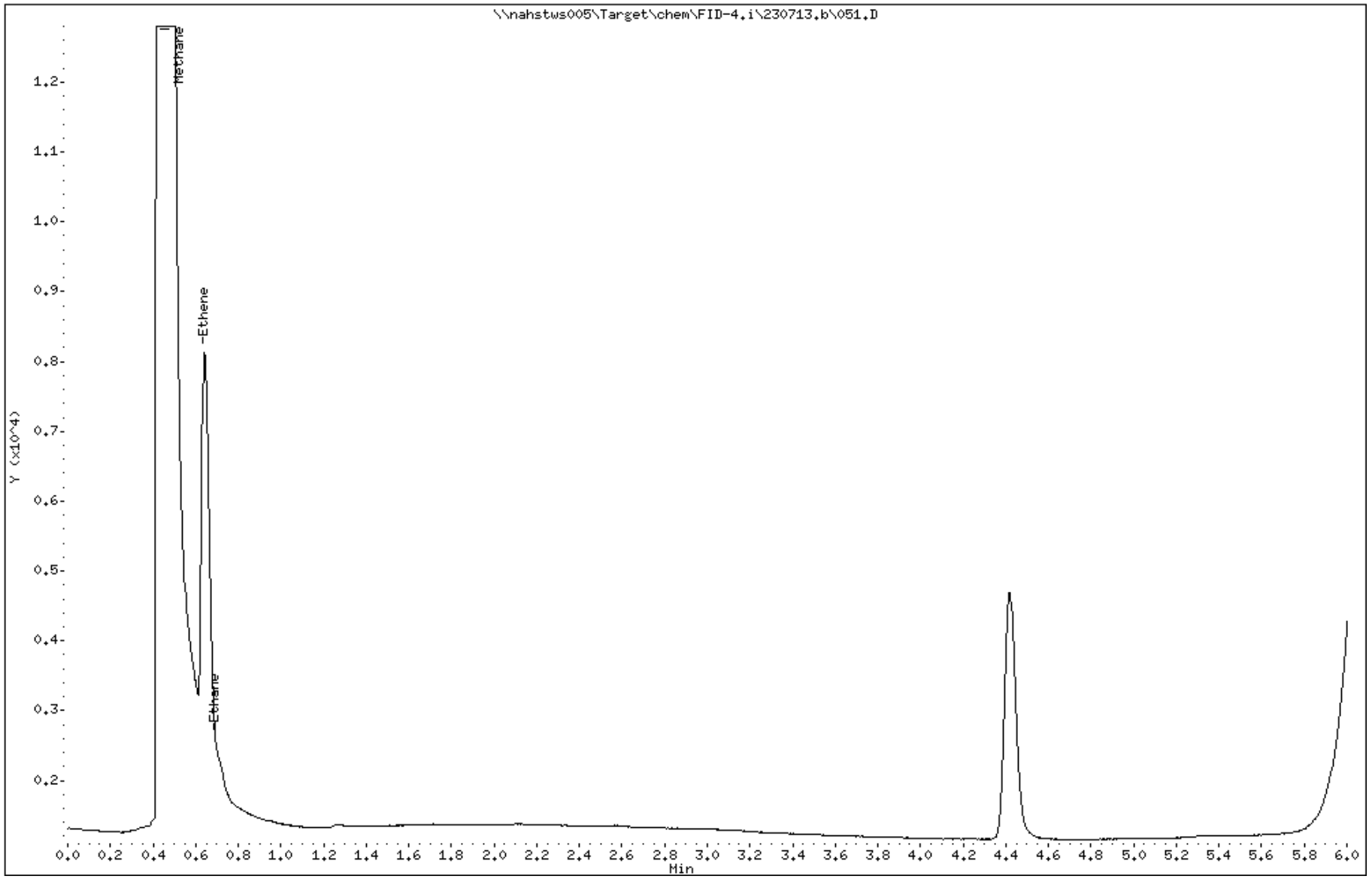
Instrument: FID-4.i

Sample Info: HS23070658-01;HS23070658-01

Operator: JA

Column phase: Rtx-PLOT

Column diameter: 0.53



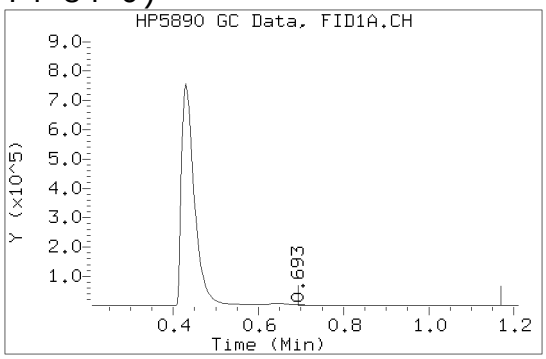
Data File : \\nahstws005\Target\chem\FID-4.i\230713.b\051.D
Inj Date : 13-JUL-2023 18:20
InstruID : FID-4.i
LabSampID : HS23070658-01

Ethane (74-84-0)

Reason Code:

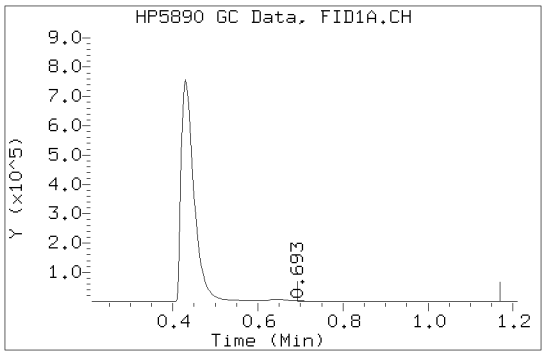
BEFORE

MASS
44
AREA
7003
HEIGHT
1311
13-Jul-2023
18:31
samy
mata



AFTER

MASS
44
AREA
7003
HEIGHT
1311
13-Jul-2023
18:31
samy
mata

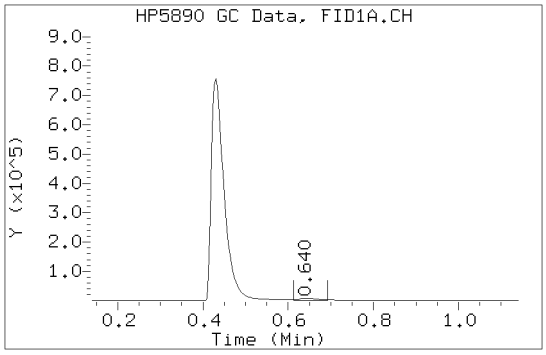


Ethene (74-85-1)

Reason Code:

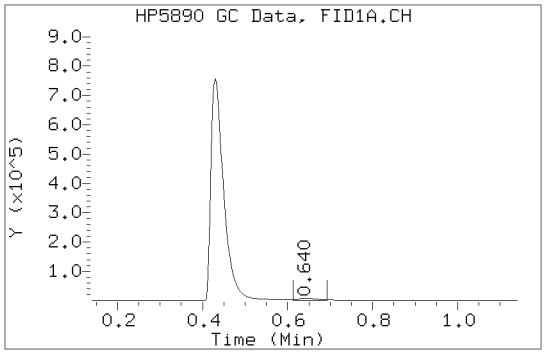
BEFORE

MASS
100
AREA
20106
HEIGHT
6850
13-Jul-2023
18:31
samy
mata



AFTER

MASS
100
AREA
20106
HEIGHT
6850
13-Jul-2023
18:31
samy
mata



Data File: \\nahstws005\Target\chem\FID-4.i\230713.b\052.D Page 1
Report Date: 13-Jul-2023 18:41

ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\nahstws005\Target\chem\FID-4.i\230713.b\052.D
Lab Smp Id: HS23070658-02 Client Smp ID: HS23070658-02
Inj Date : 13-JUL-2023 18:28
Operator : JA Inst ID: FID-4.i
Smp Info : HS23070658-02;HS23070658-02
Misc Info :
Comment :
Method : \\nahstws005\Target\chem\FID-4.i\230713.b\RSKNI3.m
Meth Date : 13-Jul-2023 17:29 samy.mata Quant Type: ESTD
Cal Date : 24-JAN-2017 10:15 Cal File: 004.D
Als bottle: 52
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: RSK175.sub
Target Version: 4.14
Processing Host: NAHSTW7022

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
1 Methane	0.433	0.430	0.003	28628	29.3623	29.362(M)
2 Ethene	0.640	0.640	0.000	34665	59.1795	59.179(M)

QC Flag Legend

M - Compound response manually integrated.

01321335

Data File: \\nahstws005\Target\chem\FID-4.i\230713.b\052.D

Date : 13-JUL-2023 18:28

Client ID: HS23070658-02

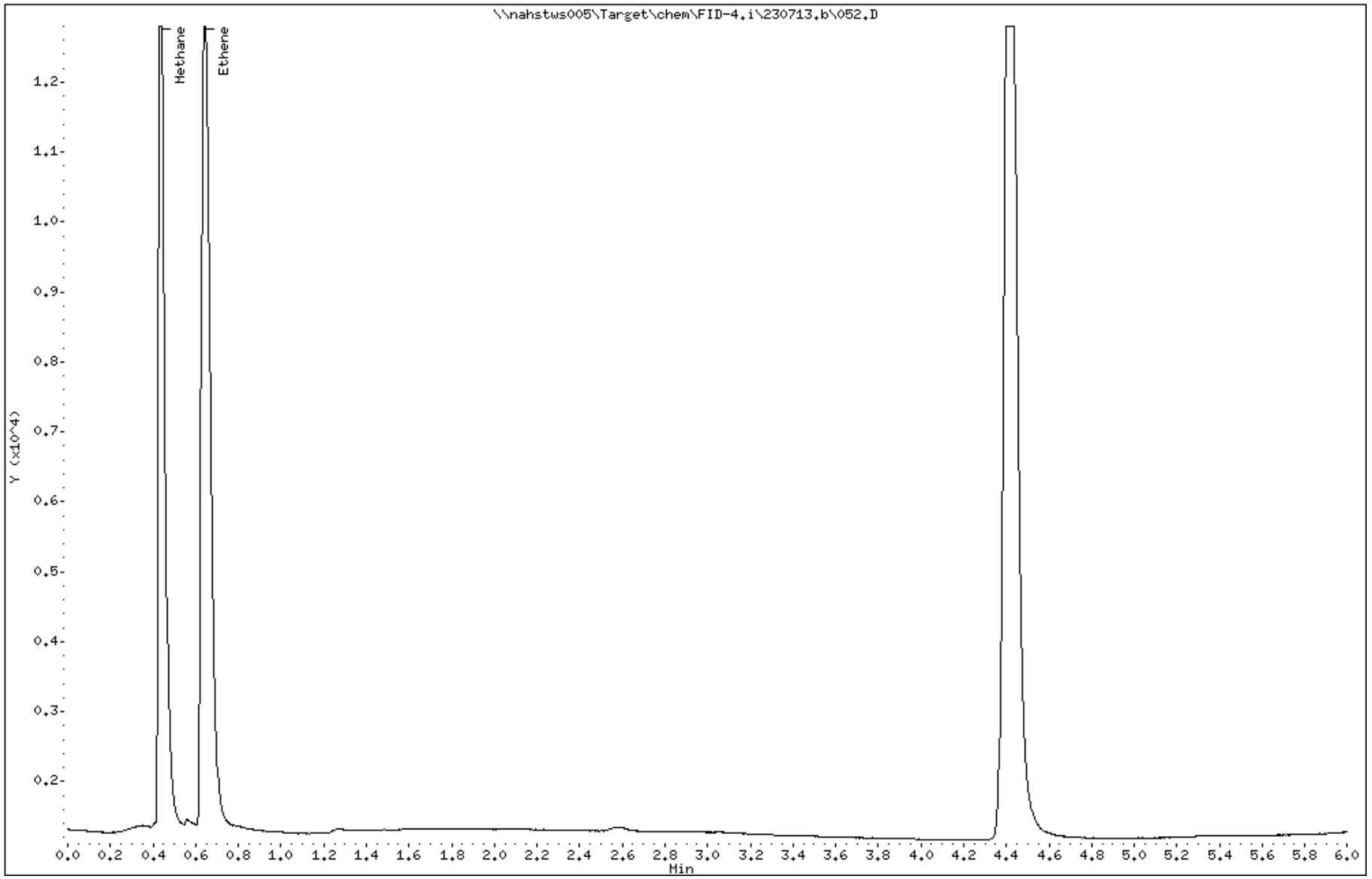
Instrument: FID-4.i

Sample Info: HS23070658-02;HS23070658-02

Operator: JA

Column phase: Rtx-PLOT

Column diameter: 0.53

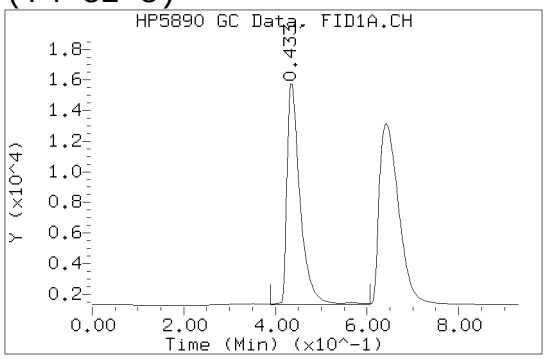


Data File : \\nahstws005\Target\chem\FID-4.i\230713.b\052.D
Inj Date : 13-JUL-2023 18:28
InstruID : FID-4.i
LabSampID : HS23070658-02

Methane (74-82-8)

BEFORE

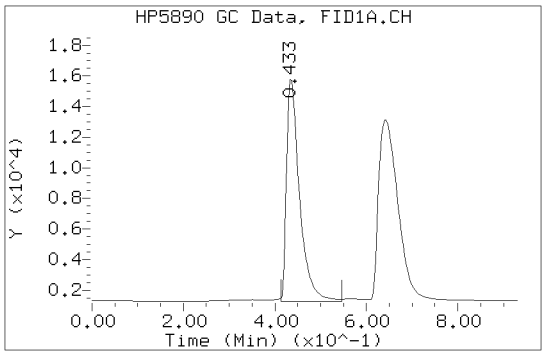
MASS
100
AREA
28721
HEIGHT
14438
13-Jul-2023
18:39
samy
mata



Reason Code:

AFTER

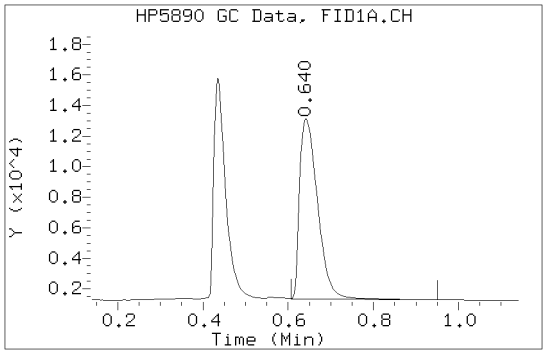
MASS
100
AREA
28628
HEIGHT
14477
13-Jul-2023
18:41
samy
mata



Ethene (74-85-1)

BEFORE

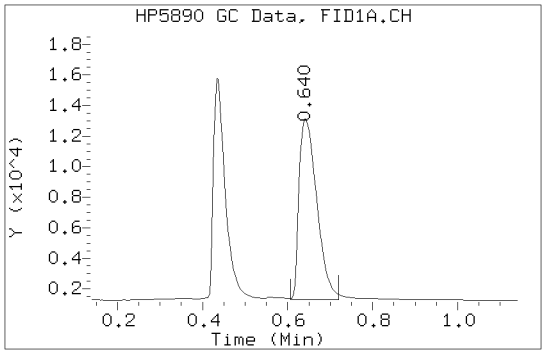
MASS
100
AREA
35152
HEIGHT
11810
13-Jul-2023
18:39
samy
mata



Reason Code:

AFTER

MASS
100
AREA
34665
HEIGHT
11847
13-Jul-2023
18:41
samy
mata



ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\nahstws005\Target\chem\FID-4.i\230713.b\053.D
Lab Smp Id: HS23070658-03 Client Smp ID: HS23070658-03
Inj Date : 13-JUL-2023 18:36
Operator : JA Inst ID: FID-4.i
Smp Info : HS23070658-03;HS23070658-03
Misc Info :
Comment :
Method : \\nahstws005\Target\chem\FID-4.i\230713.b\RSKNI3.m
Meth Date : 13-Jul-2023 17:29 samy.mata Quant Type: ESTD
Cal Date : 24-JAN-2017 10:15 Cal File: 004.D
Als bottle: 53
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: RSK175.sub
Target Version: 4.14
Processing Host: NAHSTW7022

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
1 Methane	0.430	0.430	0.000	93385	95.7802	95.780(A)
2 Ethene	0.640	0.640	0.000	131368	224.269	224.269(A)

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

01321338

Data File: \\nahstws005\Target\chem\FID-4.i\230713.b\053.D

Page 1

Date : 13-JUL-2023 18:36

Client ID: HS23070658-03

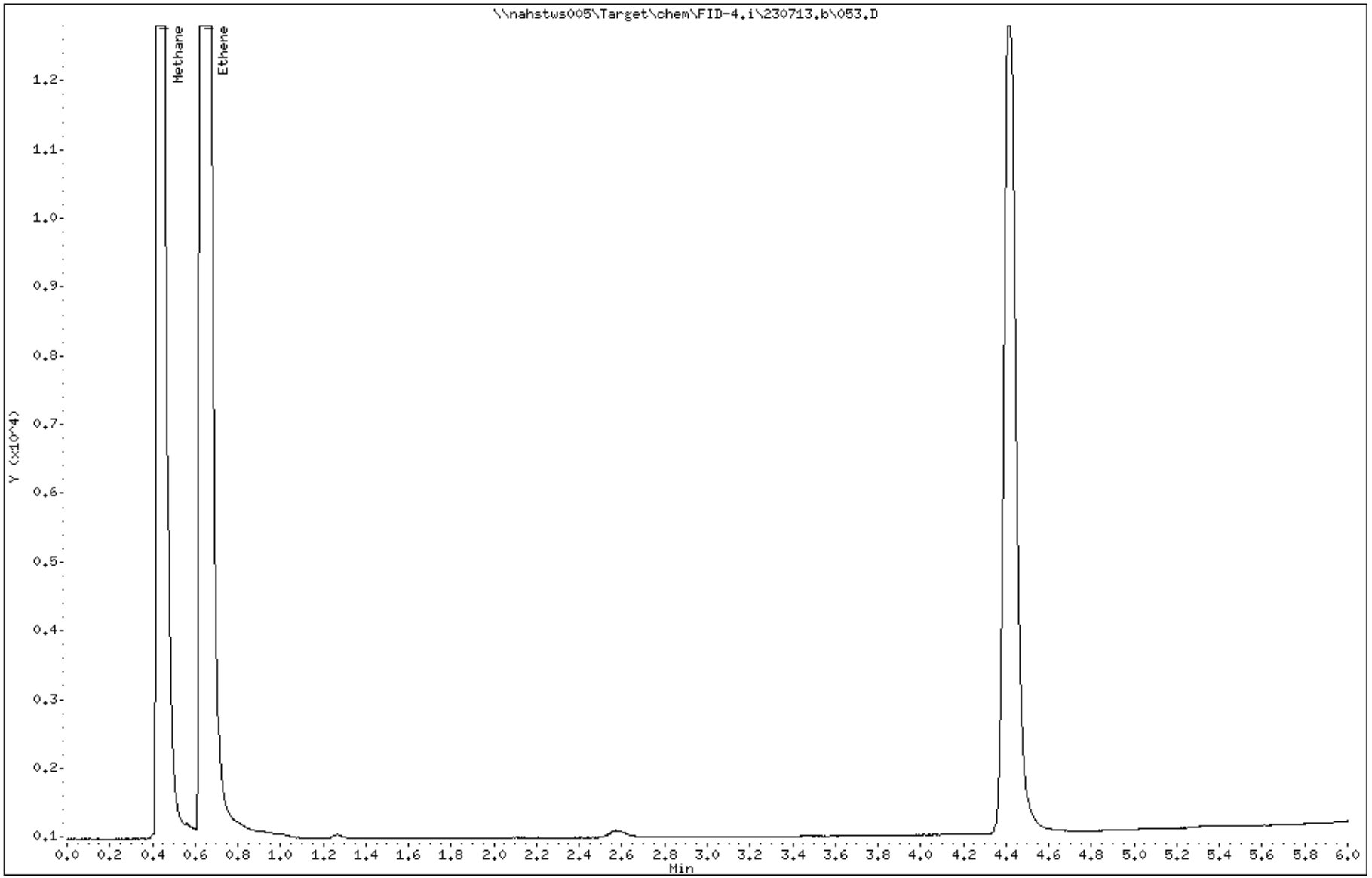
Instrument: FID-4.i

Sample Info: HS23070658-03;HS23070658-03

Operator: JA

Column phase: Rtx-PLOT

Column diameter: 0.53



Data File : \\nahstws005\target\chem\fid-4.i\230713.b\053.d
Inj Date : 13-JUL-2023 18:36
InstruID : FID-4.i
LabSampID : HS23070658-03

NO MANUAL INTEGRATIONS

ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\nahstws005\Target\chem\FID-4.i\230713.b\054.D
Lab Smp Id: HS23070658-04 Client Smp ID: HS23070658-04
Inj Date : 13-JUL-2023 18:45
Operator : JA Inst ID: FID-4.i
Smp Info : HS23070658-04;HS23070658-04
Misc Info :
Comment :
Method : \\nahstws005\Target\chem\FID-4.i\230713.b\RSKNI3.m
Meth Date : 13-Jul-2023 17:29 samy.mata Quant Type: ESTD
Cal Date : 24-JAN-2017 10:15 Cal File: 004.D
Als bottle: 54
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: RSK175.sub
Target Version: 4.14
Processing Host: NAHSTW7022

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
1 Methane	0.436	0.430	0.006	90102	92.4130	92.413(A)
2 Ethene	0.643	0.640	0.003	127917	218.378	218.377(A)

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

01321341

Data File: \\nahstws005\Target\chem\FID-4.i\230713.b\054.D

Date : 13-JUL-2023 18:45

Client ID: HS23070658-04

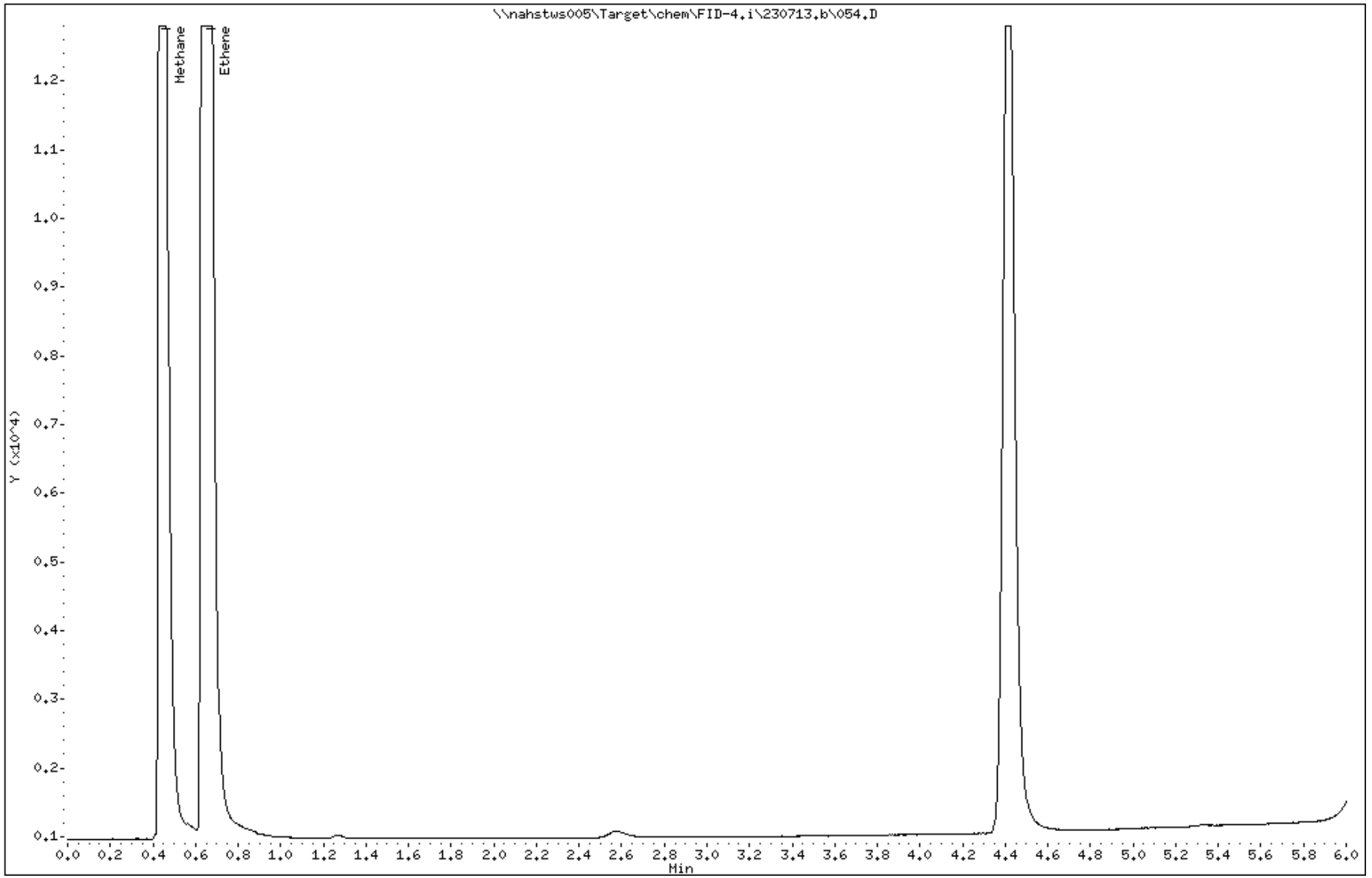
Instrument: FID-4.i

Sample Info: HS23070658-04;HS23070658-04

Operator: JA

Column phase: Rtx-PLOT

Column diameter: 0.53



Data File : \\nahstws005\Target\chem\FID-4.i\230713.b\054.D
Inj Date : 13-JUL-2023 18:45
InstruID : FID-4.i
LabSampID : HS23070658-04

NO MANUAL INTEGRATIONS

Data File: \\nahstws005\Target\chem\FID-4.i\230713.b\055.D Page 1
Report Date: 13-Jul-2023 19:01

ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\nahstws005\Target\chem\FID-4.i\230713.b\055.D
Lab Smp Id: RSK-CCV Client Smp ID: RSK-CCV
Inj Date : 13-JUL-2023 18:53
Operator : JA Inst ID: FID-4.i
Smp Info : RSK-CCV;RSK-CCV;2;4
Misc Info :
Comment :
Method : \\nahstws005\Target\chem\FID-4.i\230713.b\RSKNI3.m
Meth Date : 13-Jul-2023 19:00 samy.mata Quant Type: ESTD
Cal Date : 24-JAN-2017 10:15 Cal File: 004.D
Als bottle: 55 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: RSK175.sub
Target Version: 4.14
Processing Host: NAHSTW7022

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Methane	0.433	0.433	0.000	9117	9.64700	9.350
2 Ethene	0.646	0.646	0.000	8964	16.8500	15.303(M)
3 Ethane	0.713	0.713	0.000	13036	18.0430	18.118(M)

QC Flag Legend

M - Compound response manually integrated.

01321344

Data File: \\nahstws005\Target\chem\FID-4.i\230713.b\055.D

Date : 13-JUL-2023 18:53

Client ID: RSK-CCV

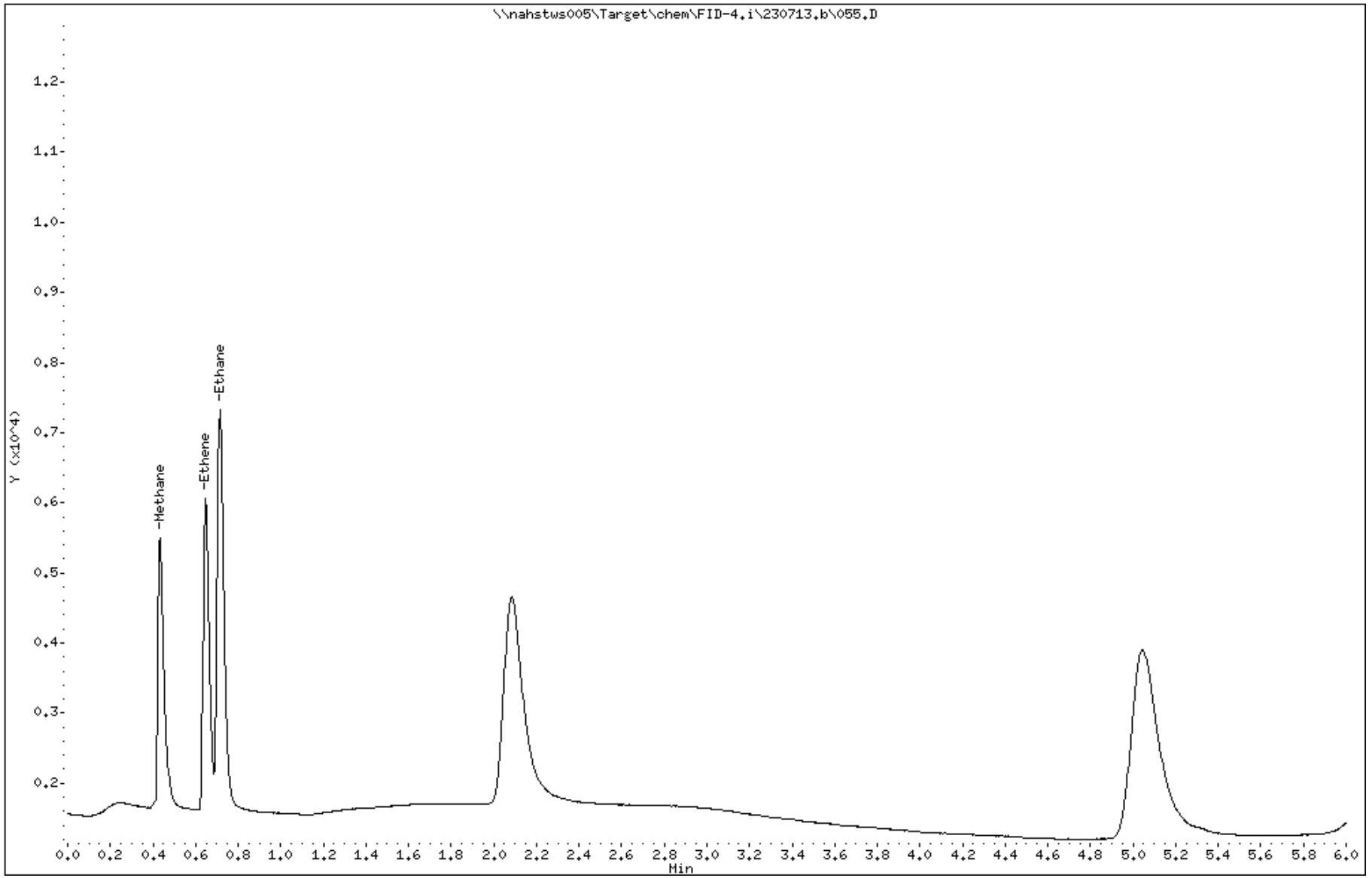
Instrument: FID-4.i

Sample Info: RSK-CCV;RSK-CCV;2;4

Operator: JA

Column phase: Rtx-PLOT

Column diameter: 0.53



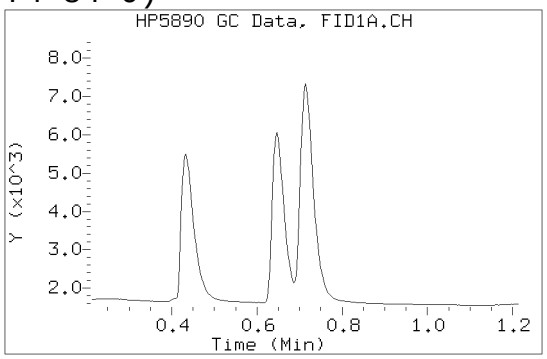
Data File : \\nahstws005\Target\chem\FID-4.i\230713.b\055.D
Inj Date : 13-JUL-2023 18:53
InstruID : FID-4.i
LabSampID : RSK-CCV

Ethane (74-84-0)

Reason Code:

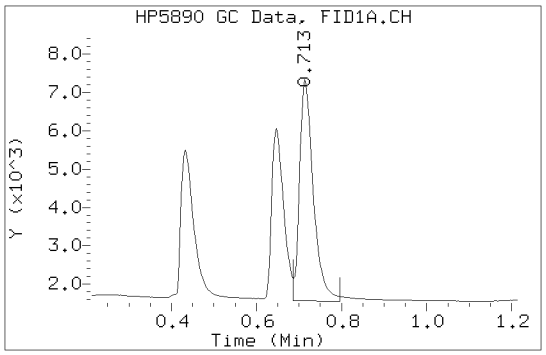
BEFORE

MASS
44
AREA
0
HEIGHT
0
13-Jul-2023
19:00
samy
mata



AFTER

MASS
44
AREA
13036
HEIGHT
5772
13-Jul-2023
19:01
samy
mata

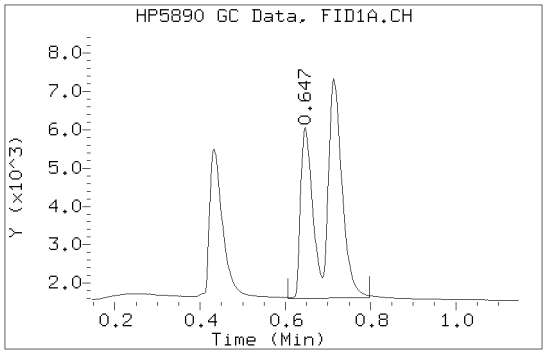


Ethene (74-85-1)

Reason Code:

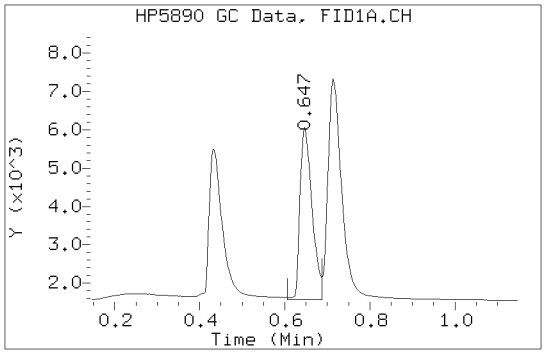
BEFORE

MASS
100
AREA
21326
HEIGHT
4459
13-Jul-2023
19:00
samy
mata



AFTER

MASS
100
AREA
8964
HEIGHT
4503
13-Jul-2023
19:01
samy
mata



ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\nahstws005\Target\chem\FID-4.i\230713.b\056.D
Lab Smp Id: HS23070658-05 Client Smp ID: HS23070658-05
Inj Date : 13-JUL-2023 19:02
Operator : JA Inst ID: FID-4.i
Smp Info : HS23070658-05;HS23070658-05
Misc Info :
Comment :
Method : \\nahstws005\Target\chem\FID-4.i\230713.b\RSKNI3.m
Meth Date : 13-Jul-2023 19:00 samy.mata Quant Type: ESTD
Cal Date : 24-JAN-2017 10:15 Cal File: 004.D
Als bottle: 56
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: RSK175.sub
Target Version: 4.14
Processing Host: NAHSTW7022

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
1 Methane	0.436	0.433	0.003	3220494	3303.10	3303.096(A)
2 Ethene	0.640	0.646	-0.006	196884	336.117	336.116(AM)

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

01321347

Data File: \\nahstws005\target\chem\fid-4.i\230713.b\056.d

Page 1

Date : 13-JUL-2023 19:02

Client ID: HS23070658-05

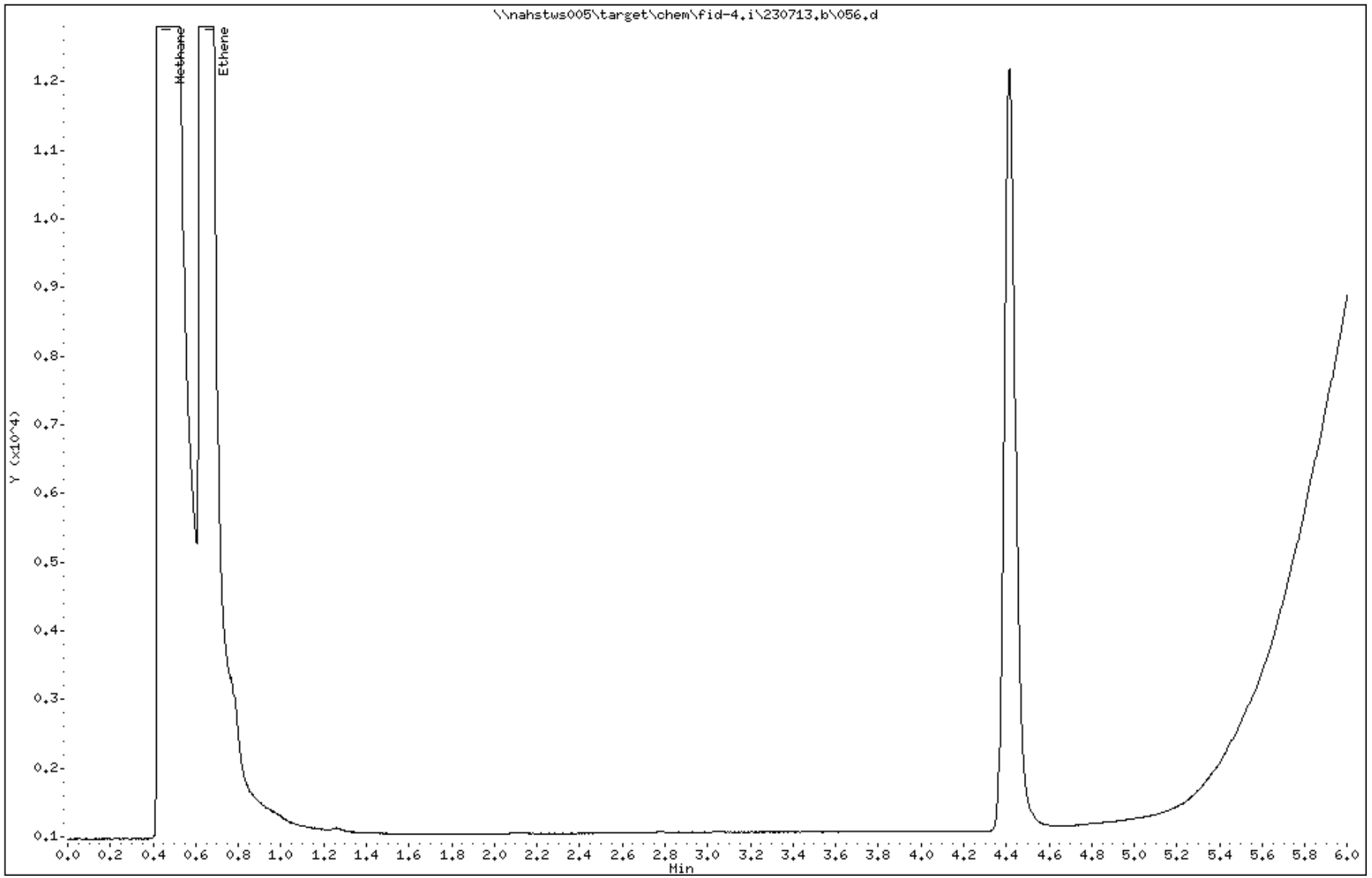
Instrument: FID-4.i

Sample Info: HS23070658-05;HS23070658-05

Operator: JA

Column phase: Rtx-PLOT

Column diameter: 0.53



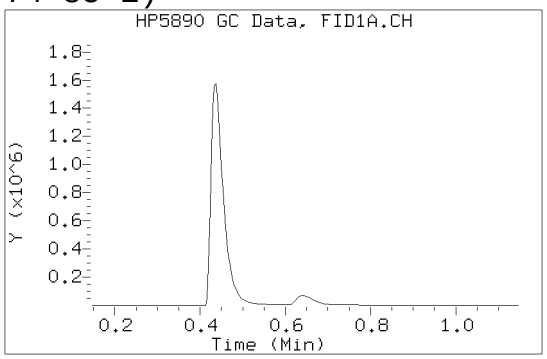
Data File : \\nahstws005\target\chem\fid-4.i\230713.b\056.d
Inj Date : 13-JUL-2023 19:02
InstruID : FID-4.i
LabSampID : HS23070658-05

Ethene (74-85-1)

Reason Code:

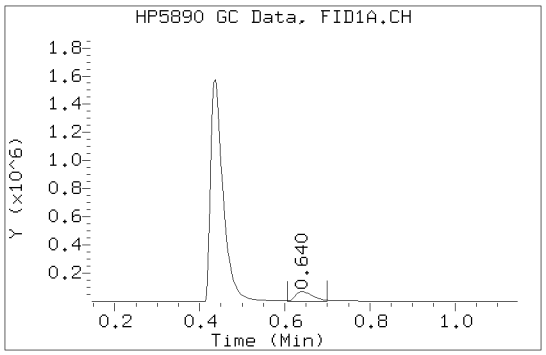
BEFORE

MASS
100
AREA
223263
HEIGHT
67539
13-Jul-2023
19:13
samy
mata



AFTER

MASS
100
AREA
196884
HEIGHT
67538
17-Jul-2023
07:57
samy
mata



ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\nahstws005\Target\chem\FID-4.i\230713.b\057.D
Lab Smp Id: HS23070658-06 Client Smp ID: HS23070658-06
Inj Date : 13-JUL-2023 19:10
Operator : JA Inst ID: FID-4.i
Smp Info : HS23070658-06;HS23070658-06
Misc Info :
Comment :
Method : \\nahstws005\Target\chem\FID-4.i\230713.b\RSKNI3.m
Meth Date : 13-Jul-2023 19:00 samy.mata Quant Type: ESTD
Cal Date : 24-JAN-2017 10:15 Cal File: 004.D
Als bottle: 57
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: RSK175.sub
Target Version: 4.14
Processing Host: NAHSTW7022

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
1 Methane	0.433	0.433	0.000	176414	180.939	180.938(AM)
2 Ethene	0.643	0.646	-0.003	6851	11.6959	11.695(M)

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

01321350

Data File: \\nahstws005\target\chem\fid-4.i\230713.b\057.d

Date : 13-JUL-2023 19:10

Client ID: HS23070658-06

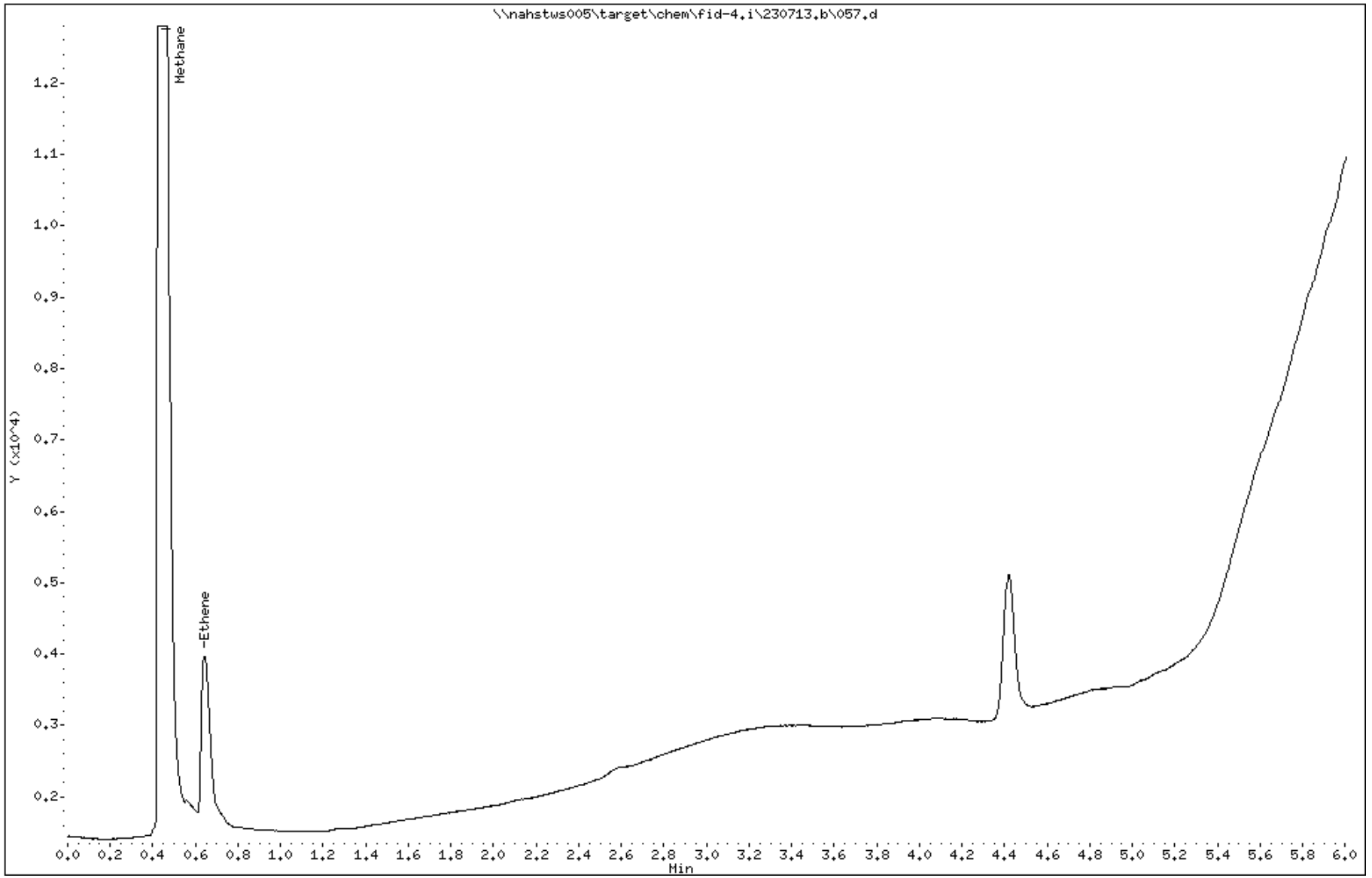
Instrument: FID-4.i

Sample Info: HS23070658-06;HS23070658-06

Operator: JA

Column phase: Rtx-PLOT

Column diameter: 0.53



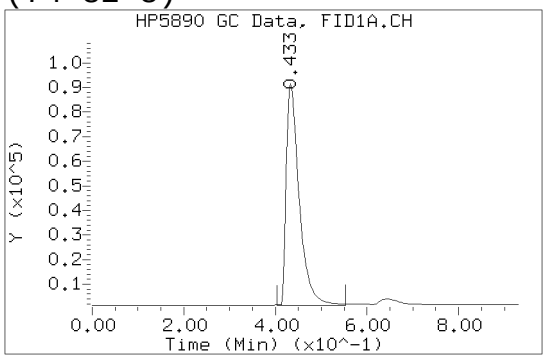
Data File : \\nahstws005\target\chem\fid-4.i\230713.b\057.d
Inj Date : 13-JUL-2023 19:10
InstruID : FID-4.i
LabSampID : HS23070658-06

Methane (74-82-8)

Reason Code:

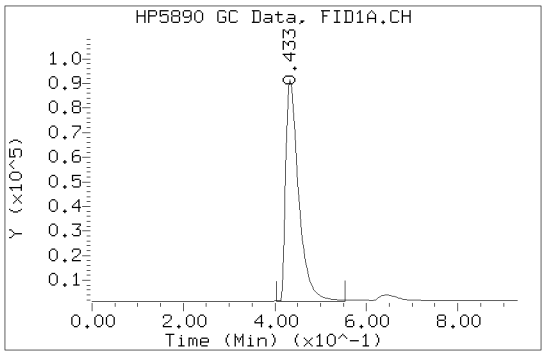
BEFORE

MASS
100
AREA
176414
HEIGHT
90080
13-Jul-2023
19:22
samy
mata



AFTER

MASS
100
AREA
176414
HEIGHT
90080
17-Jul-2023
07:57
samy
mata

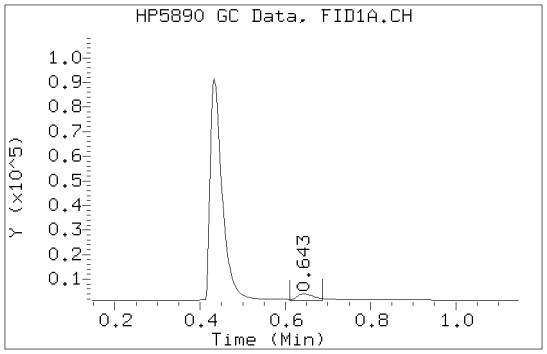


Ethene (74-85-1)

Reason Code:

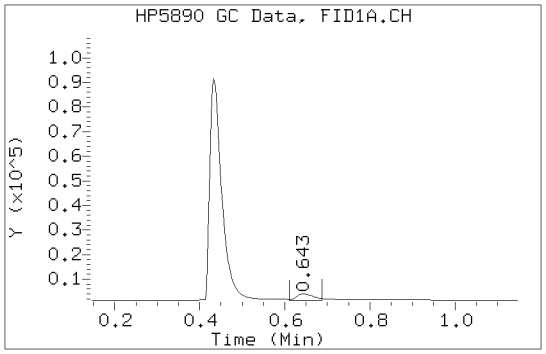
BEFORE

MASS
100
AREA
6851
HEIGHT
2461
13-Jul-2023
19:22
samy
mata



AFTER

MASS
100
AREA
6851
HEIGHT
2461
17-Jul-2023
07:57
samy
mata



Data File: \\nahstws005\Target\chem\FID-4.i\230713.b\058.D Page 1
Report Date: 13-Jul-2023 19:31

ALS Laboratory Group

Dissolved Gases Analysis
Data file : \\nahstws005\Target\chem\FID-4.i\230713.b\058.D
Lab Smp Id: HS23070658-01 Client Smp ID: HS23070658-01
Inj Date : 13-JUL-2023 19:19
Operator : JA Inst ID: FID-4.i
Smp Info : HS23070658-01;HS23070658-01
Misc Info : X50
Comment :
Method : \\nahstws005\Target\chem\FID-4.i\230713.b\RSKNI3.m
Meth Date : 13-Jul-2023 19:00 samy.mata Quant Type: ESTD
Cal Date : 24-JAN-2017 10:15 Cal File: 004.D
Als bottle: 58
Dil Factor: 50.00000
Integrator: Falcon Compound Sublist: RSK175.sub
Target Version: 4.14
Processing Host: NAHSTW7022

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
1 Methane	0.440	0.433	0.007	33110	33.9592	1697.962(M)

QC Flag Legend

M - Compound response manually integrated.

01321353

Data File: \\nahstws005\target\chem\fid-4.i\230713.b\058.d

Date : 13-JUL-2023 19:19

Client ID: HS23070658-01

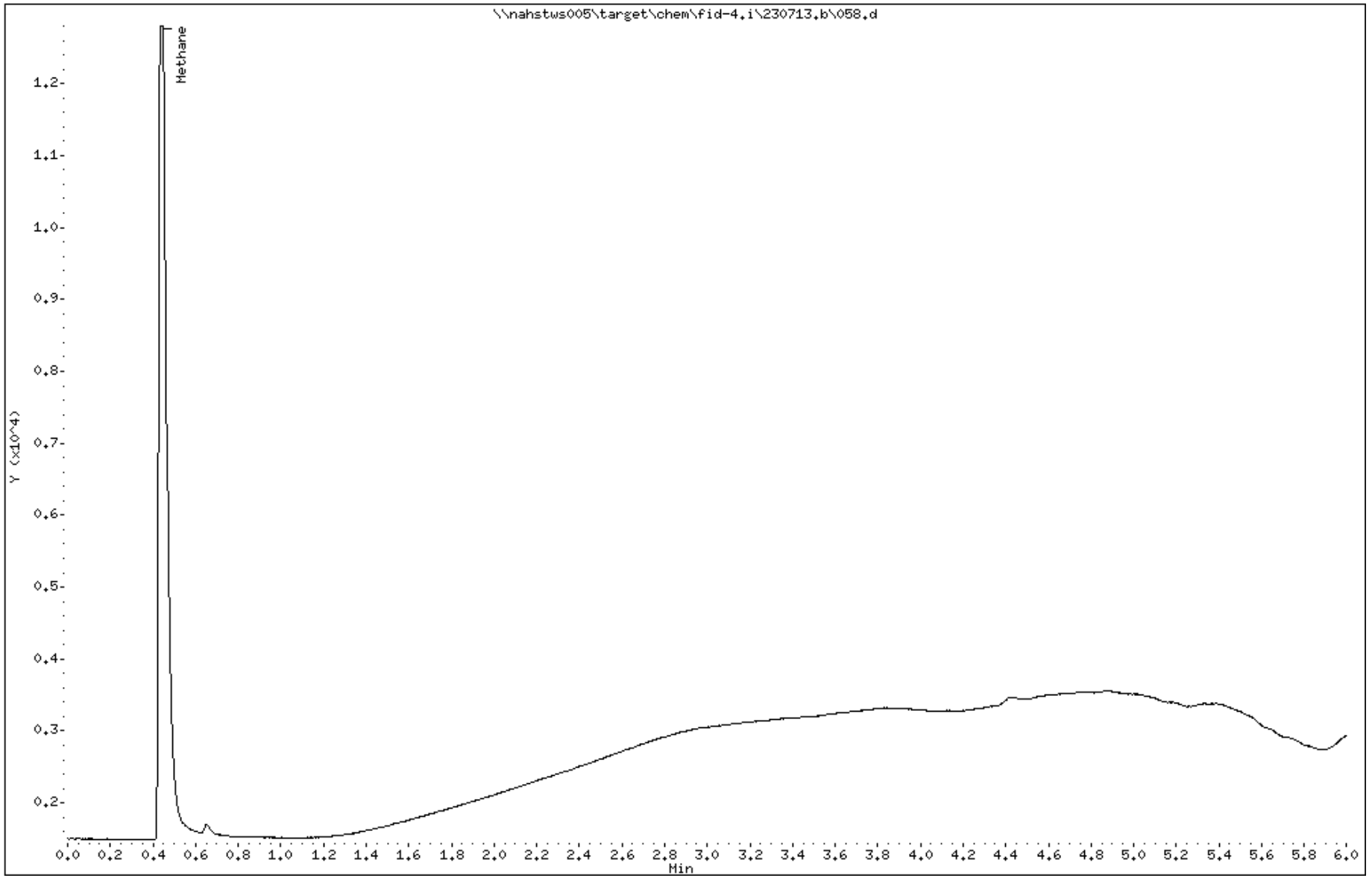
Instrument: FID-4.i

Sample Info: HS23070658-01;HS23070658-01

Operator: JA

Column phase: Rtx-PLOT

Column diameter: 0.53



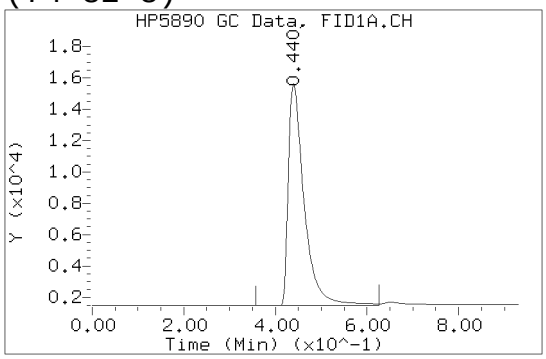
Data File : \\nahstws005\target\chem\fid-4.i\230713.b\058.d
Inj Date : 13-JUL-2023 19:19
InstruID : FID-4.i
LabSampID : HS23070658-01

Methane (74-82-8)

Reason Code:

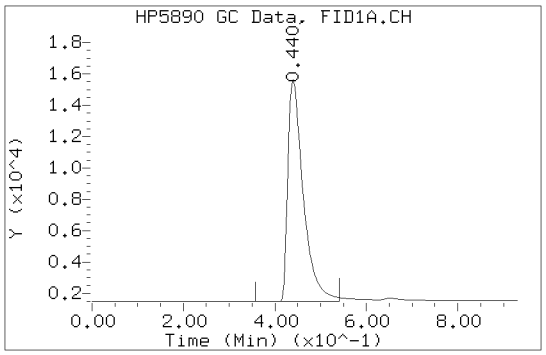
BEFORE

MASS
100
AREA
33785
HEIGHT
14137
13-Jul-2023
19:30
samy
mata



AFTER

MASS
100
AREA
33110
HEIGHT
14137
17-Jul-2023
07:57
samy
mata



Data File: \\nahstws005\Target\chem\FID-4.i\230713.b\059.D Page 1
Report Date: 13-Jul-2023 19:43

ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\nahstws005\Target\chem\FID-4.i\230713.b\059.D
Lab Smp Id: HS23070658-03 Client Smp ID: HS23070658-03
Inj Date : 13-JUL-2023 19:31
Operator : JA Inst ID: FID-4.i
Smp Info : HS23070658-03;HS23070658-03
Misc Info : X5
Comment :
Method : \\nahstws005\Target\chem\FID-4.i\230713.b\RSKNI3.m
Meth Date : 13-Jul-2023 19:00 samy.mata Quant Type: ESTD
Cal Date : 24-JAN-2017 10:15 Cal File: 004.D
Als bottle: 59
Dil Factor: 5.00000
Integrator: Falcon Compound Sublist: RSK175.sub
Target Version: 4.14
Processing Host: NAHSTW7022

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
1 Methane	0.433	0.433	0.000	19770	20.2771	101.385(M)
2 Ethene	0.643	0.646	-0.003	28042	47.8728	239.364(M)

QC Flag Legend

M - Compound response manually integrated.