LONGHORN ARMY AMMUNITION PLANT KARNACK, TEXAS

ADMINISTRATIVE RECORD

Volume 24

2025

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Longhorn Army Ammunition Plant

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

VOLUME 24
2025

A. Title: Rpt - Level IV DoD File No. 2 Lab Rpt to Final Tenth Annual Remedial Action Operation Report, LHAAP-50 Former Sump Water Tank, Longhorn Army Ammunition Plant (LHAAP), Karnack, Texas
Author(s): PCI-Bhate JV
Recipient: Environmental Protection Agency and Texas Commission on Environmental Quality

Date: May 21, 2025
Bate Stamp: 1332668-1333863

B. Title: Rpt - Level IV DoD File No. 3 Lab Rpt to Final Tenth Annual Remedial Action Operation Report, LHAAP-50 Former Sump Water Tank, Longhorn Army Ammunition Plant LHAAP Karnack Texas
Author(s): PCI-Bhate JV
Recipient: Environmental Protection Agency and Texas Commission on Environmental Quality

Date: Ma 21, 2025
Bate Stamp: 1333864-1334819

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WorkOrder: HS24051300

LHAAP Site 50

Bhate Environmental Associates, Inc.

Marcia Olive
445 Union Blvd Ste 129
Lakewood CO 80228

24-Jun-2024

WorkOrder: HS24051300

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Table of Contents

HS24051300 LHAAP Site 50 COVER PAGE
- CoverPage
- HS24051300 LHAAP Site 50 Final
  - CoverLetter
  - Sample Summary
  - CaseNarrative
  - 50WW16_052024
  - 50WW18_052024
  - 50WW22_052024
  - 50WW15_052024
  - 50WW14_052124
  - 50WW13_052124
  - 50WW11_052124
  - 50WW05_052124
  - 50WW29_052124
  - Trip Blank_052124
  - Dates Report
  - QC
  - Acronyms
  - Certifications
  - SampleReceiptCheckList
  - COC

Table of Contents (continued)

HS24051300 E2400566 Perch Level II Report
HS24051300 Eurofin Lab Sub Data J173355-1 UDS Level 2 Report Rev(1) Final Report
HS24051300-MSVOA-SW8260
Form 1 - Sample Results
Form 2 - Surrogates
Form 3A - MS/MSD
Form 3B - LCS/LCSD
Form 4 - MB Assoc
Form 5 - Tune
Form 6 - ICAL
Form 6I - ICV
Form 7 - CCV
Form 8 - ISTD
Run Log
Raw Data VOA9_467470 U240523
Raw Data VOA9_467761 U240524
Raw Data VOA9_467989 U240529
Raw Data VOA9_468007 U240529
HS24051300-GCSEMI-RSK-175
Form 1 - Sample Results
Form 3B - LCS/LCSD
Form 4 - MB Assoc
Form 6 - ICAL
Form 6I - ICV
Form 7 - CCV
Run Log
Raw Data FID_4_461015 240301
Raw Data FID_4_468189 240531
HS24051300 Wetchem 9056_anions_W - A
HS24051300 Wetchem 9056_anions_W - B
HS24051300 Wetchem TOC_W 5310B ICAL TABLE
HS24051300 Wetchem TOC_W 5310B ICAL
HS24051300 Wetchem TOC_W 5310B INJECT TABLE
HS24051300 Wetchem TOC_W 5310B INJECT
HS24051300 E2400566 Perch Level IV Report

HS24051300 LHAAP Site 50 COVER PAGE

ALS WO# HS24051300

HS24051300 LHAAP Site 50 Final

ALS WO# HS24051300

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June 07, 2024

Marcia Olive
Bhate Environmental Associates, Inc.
445 Union Blvd Ste 129
Lakewood, CO 80228

Work Order: **HS24051300**

Laboratory Results for: **LHAAP Site 50**

Dear Marcia Olive,

ALS Environmental received 10 sample(s) on May 22, 2024 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
Luis.Aguilar

ALS Houston, US Date: 07-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site 50
Work Order: HS24051300

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS24051300-01	50WW16_052024	Groundwater		20-May-2024 09:50	22-May-2024 10:15	☐
HS24051300-02	50WW18_052024	Groundwater		20-May-2024 10:40	22-May-2024 10:15	☐
HS24051300-03	50WW22_052024	Groundwater		20-May-2024 11:30	22-May-2024 10:15	☐
HS24051300-04	50WW15_052024	Groundwater		20-May-2024 12:15	22-May-2024 10:15	☐
HS24051300-05	50WW14_052124	Groundwater		21-May-2024 07:15	22-May-2024 10:15	☐
HS24051300-06	50WW13_052124	Groundwater		21-May-2024 08:00	22-May-2024 10:15	☐
HS24051300-07	50WW11_052124	Groundwater		21-May-2024 08:50	22-May-2024 10:15	☐
HS24051300-08	50WW05_052124	Groundwater		21-May-2024 09:35	22-May-2024 10:15	☐
HS24051300-09	50WW29_052124	Groundwater		21-May-2024 10:25	22-May-2024 10:15	☐
HS24051300-10	Trip Blank_052124	Water	CG-041923-524	21-May-2024 00:00	22-May-2024 10:15	☐

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Bhate Environmental Associates, Inc. **CASE NARRATIVE**
Project: LHAAP Site 50
Work Order: HS24051300

Work Order Comments

• The analysis for Perchlorate was subcontracted to ALS High Res Lab Houston, TX. Final report attached.

The analysis for Carbon Dioxide was subcontracted to Eurofins Environmental Testing America l in Lancaster, PA . Final report attached

GC Semivolatiles by Method RSK-175

Batch ID: R468189

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

GCMS Volatiles by Method SW8260

Batch ID: R467761

Sample ID: 50WW13_052124 (HS24051300-06)

• Lowest possible dilution due to high concentrations of target analytes.

Sample ID: 50WW16_052024 (HS24051300-01)

• Surrogate, Toluene-d8, failed QC control limits high. Associated analytes are ND.

Sample ID: 50WW18_052024 (HS24051300-02)

• Surrogates failed outside control limits high. Sample is ND.

Sample ID: 50WW22_052024 (HS24051300-03)

• Surrogates, 1,2 Dichloroethane and Toluene-d8, failed QC control limits high. Associated analytes are ND.

Sample ID: Trip Blank_052124 (HS24051300-10)

• Surrogates, 1,2 Dichloroethane and Toluene-d8, failed QC control limits high. Associated analytes are ND.

Batch ID: R468007

Sample ID: HS24051490-03MS

• MS and MSD are for an unrelated sample

WetChemistry by Method SM5310B

Batch ID: R468619

Sample ID: 50WW14_052124 (HS24051300-05MS)

• 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.

WetChemistry by Method SW9056

Batch ID: R467429,R467711

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

ALS Houston, US Date: 07-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site 50
Sample ID: 50WW16_052024
Collection Date: 20-May-2024 09:50

ANALYTICAL REPORT
WorkOrder:HS24051300
Lab ID:HS24051300-01
Matrix:Groundwater

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C		**Method:SW8260**						Analyst: TS
1,1-Dichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	24-May-2024 17:32
1,2-Dichloroethane	1.0	U	0.20	1.0	1.0	ug/L	1	24-May-2024 17:32
cis-1,2-Dichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	24-May-2024 17:32
Tetrachloroethene	1.0	U	0.30	1.0	1.0	ug/L	1	24-May-2024 17:32
Trichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	24-May-2024 17:32
Vinyl chloride	1.0	U	0.20	1.0	1.0	ug/L	1	24-May-2024 17:32
Surr: 1,2-Dichloroethane-d4	*115*			**0**	*81-118*	*%REC*	*1*	*24-May-2024 17:32*
Surr: 4-Bromofluorobenzene	*109*			**0**	*85-114*	*%REC*	*1*	*24-May-2024 17:32*
Surr: Dibromofluoromethane	*110*			**0**	*80-119*	*%REC*	*1*	*24-May-2024 17:32*
Surr: Toluene-d8	*114*	*S*		**0**	*89-112*	*%REC*	*1*	*24-May-2024 17:32*
SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)		**Method:NA**						Analyst: SUB
Subcontract Analysis	See Attached		0	0		NA	1	07-Jun-2024 09:22

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

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 07-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site 50
Sample ID: 50WW18_052024
Collection Date: 20-May-2024 10:40

ANALYTICAL REPORT
WorkOrder:HS24051300
Lab ID:HS24051300-02
Matrix:Groundwater

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C		**Method:SW8260**						Analyst: TS
1,1-Dichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	24-May-2024 17:53
1,2-Dichloroethane	1.0	U	0.20	1.0	1.0	ug/L	1	24-May-2024 17:53
cis-1,2-Dichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	24-May-2024 17:53
Tetrachloroethene	1.0	U	0.30	1.0	1.0	ug/L	1	24-May-2024 17:53
Trichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	24-May-2024 17:53
Vinyl chloride	1.0	U	0.20	1.0	1.0	ug/L	1	24-May-2024 17:53
Surr: 1,2-Dichloroethane-d4	*119*	*S*		**0**	*81-118*	*%REC*	*1*	*24-May-2024 17:53*
Surr: 4-Bromofluorobenzene	*114*	*S*		**0**	*85-114*	*%REC*	*1*	*24-May-2024 17:53*
Surr: Dibromofluoromethane	*113*			**0**	*80-119*	*%REC*	*1*	*24-May-2024 17:53*
Surr: Toluene-d8	*118*	*S*		**0**	*89-112*	*%REC*	*1*	*24-May-2024 17:53*
SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)		**Method:NA**						Analyst: SUB
Subcontract Analysis	See Attached		0	0		NA	1	07-Jun-2024 09:22

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

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 07-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site 50
Sample ID: 50WW22_052024
Collection Date: 20-May-2024 11:30

ANALYTICAL REPORT
WorkOrder:HS24051300
Lab ID:HS24051300-03
Matrix:Groundwater

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C		**Method:SW8260**						Analyst: TS
1,1-Dichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	24-May-2024 18:15
1,2-Dichloroethane	1.0	U	0.20	1.0	1.0	ug/L	1	24-May-2024 18:15
cis-1,2-Dichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	24-May-2024 18:15
Tetrachloroethene	1.0	U	0.30	1.0	1.0	ug/L	1	24-May-2024 18:15
Trichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	24-May-2024 18:15
Vinyl chloride	1.0	U	0.20	1.0	1.0	ug/L	1	24-May-2024 18:15
Surr: 1,2-Dichloroethane-d4	*118*	*S*		**0**	*81-118*	*%REC*	*1*	*24-May-2024 18:15*
Surr: 4-Bromofluorobenzene	*109*			**0**	*85-114*	*%REC*	*1*	*24-May-2024 18:15*
Surr: Dibromofluoromethane	*112*			**0**	*80-119*	*%REC*	*1*	*24-May-2024 18:15*
Surr: Toluene-d8	*115*	*S*		**0**	*89-112*	*%REC*	*1*	*24-May-2024 18:15*
SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)		**Method:NA**						Analyst: SUB
Subcontract Analysis	See Attached		0	0		NA	1	07-Jun-2024 09:22

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

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 07-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site 50
Sample ID: 50WW15_052024
Collection Date: 20-May-2024 12:15

ANALYTICAL REPORT
WorkOrder:HS24051300
Lab ID:HS24051300-04
Matrix:Groundwater

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C		**Method:SW8260**						Analyst: TS
1,1-Dichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	30-May-2024 07:31
1,2-Dichloroethane	1.0	U	0.20	1.0	1.0	ug/L	1	30-May-2024 07:31
cis-1,2-Dichloroethene	**1.8**		**0.20**	**1.0**	**1.0**	**ug/L**	1	30-May-2024 07:31
Tetrachloroethene	**0.93**	J	**0.30**	**1.0**	**1.0**	**ug/L**	1	30-May-2024 07:31
Trichloroethene	**4.8**		**0.20**	**1.0**	**1.0**	**ug/L**	1	30-May-2024 07:31
Vinyl chloride	1.0	U	0.20	1.0	1.0	ug/L	1	30-May-2024 07:31
Surr: 1,2-Dichloroethane-d4	*116*			**0**	*81-118*	*%REC*	*1*	*30-May-2024 07:31*
Surr: 4-Bromofluorobenzene	*108*			**0**	*85-114*	*%REC*	*1*	*30-May-2024 07:31*
Surr: Dibromofluoromethane	*112*			**0**	*80-119*	*%REC*	*1*	*30-May-2024 07:31*
Surr: Toluene-d8	*111*			**0**	*89-112*	*%REC*	*1*	*30-May-2024 07:31*
SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)		**Method:NA**						Analyst: SUB
Subcontract Analysis	See Attached		0	0		NA	1	07-Jun-2024 09:22

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

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 07-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site 50
Sample ID: 50WW14_052124
Collection Date: 21-May-2024 07:15

ANALYTICAL REPORT
WorkOrder:HS24051300
Lab ID:HS24051300-05
Matrix:Groundwater

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C		**Method:SW8260**						Analyst: TS
1,1-Dichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	30-May-2024 07:52
1,2-Dichloroethane	1.0	U	0.20	1.0	1.0	ug/L	1	30-May-2024 07:52
cis-1,2-Dichloroethene	**4.7**		**0.20**	**1.0**	**1.0**	**ug/L**	1	30-May-2024 07:52
Tetrachloroethene	1.0	U	0.30	1.0	1.0	ug/L	1	30-May-2024 07:52
Trichloroethene	**24**		**0.20**	**1.0**	**1.0**	**ug/L**	1	30-May-2024 07:52
Vinyl chloride	1.0	U	0.20	1.0	1.0	ug/L	1	30-May-2024 07:52
Surr: 1,2-Dichloroethane-d4	*118*			**0**	*81-118*	*%REC*	*1*	*30-May-2024 07:52*
Surr: 4-Bromofluorobenzene	*109*			**0**	*85-114*	*%REC*	*1*	*30-May-2024 07:52*
Surr: Dibromofluoromethane	*116*			**0**	*80-119*	*%REC*	*1*	*30-May-2024 07:52*
Surr: Toluene-d8	*111*			**0**	*89-112*	*%REC*	*1*	*30-May-2024 07:52*
DISSOLVED GASES BY RSK-175		**Method:RSK-175**						Analyst: RG
Ethane	**0.000820**	J	**0.000144**	**0.000500**	**0.00100**	**mg/L**	1	31-May-2024 10:11
Ethene	0.000500	U	0.000234	0.000500	0.00100	mg/L	1	31-May-2024 10:11
Methane	**0.00386**		**0.000107**	**0.000500**	**0.000500**	**mg/L**	1	31-May-2024 10:11
TOTAL ORGANIC CARBON - SM5310B-2011		**Method:SM5310B**						Analyst: JAC
Organic Carbon, Total	**5.14**		**0.500**	**1.00**	**1.00**	**mg/L**	1	05-Jun-2024 23:56
ANIONS BY SW9056A		**Method:SW9056**						Analyst: TH
Chloride	**498**		**2.00**	**2.50**	**5.00**	**mg/L**	10	22-May-2024 19:34
Nitrogen, Nitrate (As N)	0.0500	U	0.0300	0.0500	0.100	mg/L	1	22-May-2024 19:28
Sulfate	**399**		**2.00**	**2.50**	**5.00**	**mg/L**	10	26-May-2024 16:50
SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)		**Method:NA**						Analyst: SUB
Subcontract Analysis	See Attached		0	0		NA	1	07-Jun-2024 09:22
SUBCONTRACT ANALYSIS - RSK		**Method:NA**						Analyst: SUB
Subcontract Analysis	See Attached		0	0		NA	1	29-May-2024 10:17

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

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 07-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site 50
Sample ID: 50WW13_052124
Collection Date: 21-May-2024 08:00

ANALYTICAL REPORT
WorkOrder:HS24051300
Lab ID:HS24051300-06
Matrix:Groundwater

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C		**Method:SW8260**						Analyst: TS
1,1-Dichloroethene	5.0	U	1.0	5.0	5.0	ug/L	5	24-May-2024 19:44
1,2-Dichloroethane	5.0	U	1.0	5.0	5.0	ug/L	5	24-May-2024 19:44
cis-1,2-Dichloroethene	**24**		**1.0**	**5.0**	**5.0**	**ug/L**	5	24-May-2024 19:44
Tetrachloroethene	5.0	U	1.5	5.0	5.0	ug/L	5	24-May-2024 19:44
Trichloroethene	**470**		**1.0**	**5.0**	**5.0**	**ug/L**	5	24-May-2024 19:44
Vinyl chloride	5.0	U	1.0	5.0	5.0	ug/L	5	24-May-2024 19:44
Surr: 1,2-Dichloroethane-d4	*114*			**0**	*81-118*	*%REC*	*5*	*24-May-2024 19:44*
Surr: 4-Bromofluorobenzene	*108*			**0**	*85-114*	*%REC*	*5*	*24-May-2024 19:44*
Surr: Dibromofluoromethane	*107*			**0**	*80-119*	*%REC*	*5*	*24-May-2024 19:44*
Surr: Toluene-d8	*110*			**0**	*89-112*	*%REC*	*5*	*24-May-2024 19:44*
DISSOLVED GASES BY RSK-175		**Method:RSK-175**						Analyst: RG
Ethane	0.000500	U	0.000144	0.000500	0.00100	mg/L	1	31-May-2024 10:37
Ethene	0.000500	U	0.000234	0.000500	0.00100	mg/L	1	31-May-2024 10:37
Methane	**0.00132**		**0.000107**	**0.000500**	**0.000500**	**mg/L**	1	31-May-2024 10:37
TOTAL ORGANIC CARBON - SM5310B-2011		**Method:SM5310B**						Analyst: JAC
Organic Carbon, Total	**7.75**		**0.500**	**1.00**	**1.00**	**mg/L**	1	06-Jun-2024 00:21
ANIONS BY SW9056A		**Method:SW9056**						Analyst: TH
Chloride	**402**		**2.00**	**2.50**	**5.00**	**mg/L**	10	22-May-2024 19:46
Nitrogen, Nitrate (As N)	0.0500	U	0.0300	0.0500	0.100	mg/L	1	22-May-2024 19:40
Sulfate	**357**		**2.00**	**2.50**	**5.00**	**mg/L**	10	26-May-2024 17:25
SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)		**Method:NA**						Analyst: SUB
Subcontract Analysis	See Attached		0	0		NA	1	07-Jun-2024 09:22
SUBCONTRACT ANALYSIS - RSK		**Method:NA**						Analyst: SUB
Subcontract Analysis	See Attached		0	0		NA	1	29-May-2024 10:17

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

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 07-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site 50
Sample ID: 50WW11_052124
Collection Date: 21-May-2024 08:50

ANALYTICAL REPORT
WorkOrder:HS24051300
Lab ID:HS24051300-07
Matrix:Groundwater

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C		**Method:SW8260**						Analyst: TS
1,1-Dichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	30-May-2024 08:13
1,2-Dichloroethane	1.0	U	0.20	1.0	1.0	ug/L	1	30-May-2024 08:13
cis-1,2-Dichloroethene	**11**		**0.20**	**1.0**	**1.0**	**ug/L**	1	30-May-2024 08:13
Tetrachloroethene	1.0	U	0.30	1.0	1.0	ug/L	1	30-May-2024 08:13
Trichloroethene	**140**		**0.20**	**1.0**	**1.0**	**ug/L**	1	30-May-2024 08:13
Vinyl chloride	1.0	U	0.20	1.0	1.0	ug/L	1	30-May-2024 08:13
Surr: 1,2-Dichloroethane-d4	*118*			**0**	*81-118*	*%REC*	*1*	*30-May-2024 08:13*
Surr: 4-Bromofluorobenzene	*109*			**0**	*85-114*	*%REC*	*1*	*30-May-2024 08:13*
Surr: Dibromofluoromethane	*114*			**0**	*80-119*	*%REC*	*1*	*30-May-2024 08:13*
Surr: Toluene-d8	*111*			**0**	*89-112*	*%REC*	*1*	*30-May-2024 08:13*
DISSOLVED GASES BY RSK-175		**Method:RSK-175**						Analyst: RG
Ethane	0.000500	U	0.000144	0.000500	0.00100	mg/L	1	31-May-2024 10:45
Ethene	0.000500	U	0.000234	0.000500	0.00100	mg/L	1	31-May-2024 10:45
Methane	**0.720**		**0.0107**	**0.0500**	**0.0500**	**mg/L**	100	31-May-2024 11:23
TOTAL ORGANIC CARBON - SM5310B-2011		**Method:SM5310B**						Analyst: JAC
Organic Carbon, Total	**4.76**		**0.500**	**1.00**	**1.00**	**mg/L**	1	06-Jun-2024 00:32
ANIONS BY SW9056A		**Method:SW9056**						Analyst: TH
Chloride	**344**		**2.00**	**2.50**	**5.00**	**mg/L**	10	22-May-2024 19:57
Nitrogen, Nitrate (As N)	0.0500	U	0.0300	0.0500	0.100	mg/L	1	22-May-2024 19:51
Sulfate	**317**		**2.00**	**2.50**	**5.00**	**mg/L**	10	26-May-2024 17:31
SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)		**Method:NA**						Analyst: SUB
Subcontract Analysis	See Attached		0	0		NA	1	07-Jun-2024 09:22
SUBCONTRACT ANALYSIS - RSK		**Method:NA**						Analyst: SUB
Subcontract Analysis	See Attached		0	0		NA	1	06-Jun-2024 11:45

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

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 07-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site 50
Sample ID: 50WW05_052124
Collection Date: 21-May-2024 09:35

ANALYTICAL REPORT
WorkOrder:HS24051300
Lab ID:HS24051300-08
Matrix:Groundwater

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C	**Method:SW8260**							Analyst: TS
1,1-Dichloroethene	**3.1**		**0.20**	**1.0**	**1.0**	**ug/L**	1	30-May-2024 08:35
1,2-Dichloroethane	1.0	U	0.20	1.0	1.0	ug/L	1	30-May-2024 08:35
cis-1,2-Dichloroethene	**120**		**0.20**	**1.0**	**1.0**	**ug/L**	1	30-May-2024 08:35
Tetrachloroethene	**0.79**	J	**0.30**	**1.0**	**1.0**	**ug/L**	1	30-May-2024 08:35
Trichloroethene	**150**		**0.20**	**1.0**	**1.0**	**ug/L**	1	30-May-2024 08:35
Vinyl chloride	1.0	U	0.20	1.0	1.0	ug/L	1	30-May-2024 08:35
Surr: 1,2-Dichloroethane-d4	*118*			**0**	*81-118*	*%REC*	*1*	*30-May-2024 08:35*
Surr: 4-Bromofluorobenzene	*107*			**0**	*85-114*	*%REC*	*1*	*30-May-2024 08:35*
Surr: Dibromofluoromethane	*116*			**0**	*80-119*	*%REC*	*1*	*30-May-2024 08:35*
Surr: Toluene-d8	*112*			**0**	*89-112*	*%REC*	*1*	*30-May-2024 08:35*
SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)	**Method:NA**							Analyst: SUB
Subcontract Analysis	See Attached		0	0		NA	1	07-Jun-2024 09:22

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

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 07-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site 50
Sample ID: 50WW29_052124
Collection Date: 21-May-2024 10:25

ANALYTICAL REPORT
WorkOrder:HS24051300
Lab ID:HS24051300-09
Matrix:Groundwater

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C		**Method:SW8260**						Analyst: TS
1,1-Dichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	30-May-2024 08:56
1,2-Dichloroethane	1.0	U	0.20	1.0	1.0	ug/L	1	30-May-2024 08:56
cis-1,2-Dichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	30-May-2024 08:56
Tetrachloroethene	1.0	U	0.30	1.0	1.0	ug/L	1	30-May-2024 08:56
Trichloroethene	**0.47**	J	**0.20**	**1.0**	**1.0**	**ug/L**	1	30-May-2024 08:56
Vinyl chloride	1.0	U	0.20	1.0	1.0	ug/L	1	30-May-2024 08:56
Surr: 1,2-Dichloroethane-d4	*118*			**0**	*81-118*	*%REC*	*1*	*30-May-2024 08:56*
Surr: 4-Bromofluorobenzene	*111*			**0**	*85-114*	*%REC*	*1*	*30-May-2024 08:56*
Surr: Dibromofluoromethane	*116*			**0**	*80-119*	*%REC*	*1*	*30-May-2024 08:56*
Surr: Toluene-d8	*111*			**0**	*89-112*	*%REC*	*1*	*30-May-2024 08:56*
SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)		**Method:NA**						Analyst: SUB
Subcontract Analysis	See Attached		0	0		NA	1	07-Jun-2024 09:22

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

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 07-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site 50
Sample ID: Trip Blank_052124
Collection Date: 21-May-2024 00:00

ANALYTICAL REPORT
WorkOrder:HS24051300
Lab ID:HS24051300-10
Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C	**Method:SW8260**							Analyst: TS
1,1-Dichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	24-May-2024 16:49
1,2-Dichloroethane	1.0	U	0.20	1.0	1.0	ug/L	1	24-May-2024 16:49
cis-1,2-Dichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	24-May-2024 16:49
Tetrachloroethene	1.0	U	0.30	1.0	1.0	ug/L	1	24-May-2024 16:49
Trichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	24-May-2024 16:49
Vinyl chloride	1.0	U	0.20	1.0	1.0	ug/L	1	24-May-2024 16:49
Surr: 1,2-Dichloroethane-d4	*120*	*S*		**0**	*81-118*	*%REC*	*1*	*24-May-2024 16:49*
Surr: 4-Bromofluorobenzene	*114*			**0**	*85-114*	*%REC*	*1*	*24-May-2024 16:49*
Surr: Dibromofluoromethane	*115*			**0**	*80-119*	*%REC*	*1*	*24-May-2024 16:49*
Surr: Toluene-d8	*119*	*S*		**0**	*89-112*	*%REC*	*1*	*24-May-2024 16:49*

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

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site 50
WorkOrder: HS24051300

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: R467429 (0)	**Test Name :** ANIONS BY SW9056A				**Matrix:** Groundwater	
HS24051300-05	50WW14_052124	21 May 2024 07:15			22 May 2024 19:34	10
HS24051300-05	50WW14_052124	21 May 2024 07:15			22 May 2024 19:28	1
HS24051300-06	50WW13_052124	21 May 2024 08:00			22 May 2024 19:46	10
HS24051300-06	50WW13_052124	21 May 2024 08:00			22 May 2024 19:40	1
HS24051300-07	50WW11_052124	21 May 2024 08:50			22 May 2024 19:57	10
HS24051300-07	50WW11_052124	21 May 2024 08:50			22 May 2024 19:51	1
Batch ID: R467711 (0)	**Test Name :** ANIONS BY SW9056A				**Matrix:** Groundwater	
HS24051300-05	50WW14_052124	21 May 2024 07:15			26 May 2024 16:50	10
HS24051300-06	50WW13_052124	21 May 2024 08:00			26 May 2024 17:25	10
HS24051300-07	50WW11_052124	21 May 2024 08:50			26 May 2024 17:31	10
Batch ID: R467761 (0)	**Test Name :** VOLATILES ORGANICS BY METHOD 8260C				**Matrix:** Water	
HS24051300-10	Trip Blank_052124	21 May 2024 00:00			24 May 2024 16:49	1
Batch ID: R467761 (0)	**Test Name :** VOLATILES ORGANICS BY METHOD 8260C				**Matrix:** Groundwater	
HS24051300-01	50WW16_052024	20 May 2024 09:50			24 May 2024 17:32	1
HS24051300-02	50WW18_052024	20 May 2024 10:40			24 May 2024 17:53	1
HS24051300-03	50WW22_052024	20 May 2024 11:30			24 May 2024 18:15	1
HS24051300-06	50WW13_052124	21 May 2024 08:00			24 May 2024 19:44	5
Batch ID: R467885 (0)	**Test Name :** SUBCONTRACT ANALYSIS - RSK				**Matrix:** Groundwater	
HS24051300-05	50WW14_052124	21 May 2024 07:15			29 May 2024 10:17	1
HS24051300-06	50WW13_052124	21 May 2024 08:00			29 May 2024 10:17	1
Batch ID: R468007 (0)	**Test Name :** VOLATILES ORGANICS BY METHOD 8260C				**Matrix:** Groundwater	
HS24051300-04	50WW15_052024	20 May 2024 12:15			30 May 2024 07:31	1
HS24051300-05	50WW14_052124	21 May 2024 07:15			30 May 2024 07:52	1
HS24051300-07	50WW11_052124	21 May 2024 08:50			30 May 2024 08:13	1
HS24051300-08	50WW05_052124	21 May 2024 09:35			30 May 2024 08:35	1
HS24051300-09	50WW29_052124	21 May 2024 10:25			30 May 2024 08:56	1
Batch ID: R468189 (0)	**Test Name :** DISSOLVED GASES BY RSK-175				**Matrix:** Groundwater	
HS24051300-05	50WW14_052124	21 May 2024 07:15			31 May 2024 10:11	1
HS24051300-06	50WW13_052124	21 May 2024 08:00			31 May 2024 10:37	1
HS24051300-07	50WW11_052124	21 May 2024 08:50			31 May 2024 11:23	100
HS24051300-07	50WW11_052124	21 May 2024 08:50			31 May 2024 10:45	1
Batch ID: R468619 (0)	**Test Name :** TOTAL ORGANIC CARBON - SM5310B-2011				**Matrix:** Groundwater	
HS24051300-05	50WW14_052124	21 May 2024 07:15			05 Jun 2024 23:56	1
HS24051300-06	50WW13_052124	21 May 2024 08:00			06 Jun 2024 00:21	1
HS24051300-07	50WW11_052124	21 May 2024 08:50			06 Jun 2024 00:32	1

ALS Houston, US Date: 07-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site 50
WorkOrder: HS24051300

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: R468659 (0)	**Test Name :** SUBCONTRACT ANALYSIS - RSK				**Matrix:** Groundwater	
HS24051300-07	50WW11_052124	21 May 2024 08:50			06 Jun 2024 11:45	1
Batch ID: R468746 (0)	**Test Name :** SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)				**Matrix:** Groundwater	
HS24051300-01	50WW16_052024	20 May 2024 09:50			07 Jun 2024 09:22	1
HS24051300-02	50WW18_052024	20 May 2024 10:40			07 Jun 2024 09:22	1
HS24051300-03	50WW22_052024	20 May 2024 11:30			07 Jun 2024 09:22	1
HS24051300-04	50WW15_052024	20 May 2024 12:15			07 Jun 2024 09:22	1
HS24051300-05	50WW14_052124	21 May 2024 07:15			07 Jun 2024 09:22	1
HS24051300-06	50WW13_052124	21 May 2024 08:00			07 Jun 2024 09:22	1
HS24051300-07	50WW11_052124	21 May 2024 08:50			07 Jun 2024 09:22	1
HS24051300-08	50WW05_052124	21 May 2024 09:35			07 Jun 2024 09:22	1
HS24051300-09	50WW29_052124	21 May 2024 10:25			07 Jun 2024 09:22	1

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site 50
WorkOrder: HS24051300

QC BATCH REPORT

Batch ID: R468189 (0) **Instrument: FID-4** **Method: DISSOLVED GASES BY RSK-175**

MBLK Sample ID: **MBLK-240531** Units: **mg/L** Analysis Date: **31-May-2024 09:17**
Client ID: Run ID: **FID-4_468189** SeqNo: **8041232** 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-240531** Units: **mg/L** Analysis Date: **31-May-2024 09:30**
Client ID: Run ID: **FID-4_468189** SeqNo: **8041233** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Ethane	0.0153	0.00100	0.01804	0	84.9	75 - 125				
Ethene	0.0146	0.00100	0.0168	0	86.6	75 - 125				
Methane	0.00908	0.000500	0.009647	0	94.1	75 - 125				

LCSD Sample ID: **LCSD-240531** Units: **mg/L** Analysis Date: **31-May-2024 09:38**
Client ID: Run ID: **FID-4_468189** SeqNo: **8041234** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Ethane	0.0148	0.00100	0.01804	0	81.9	75 - 125	0.01532	3.64	30	
Ethene	0.0139	0.00100	0.0168	0	82.7	75 - 125	0.01455	4.68	30	
Methane	0.00869	0.000500	0.009647	0	90.1	75 - 125	0.009079	4.4	30	

The following samples were analyzed in this batch: HS24051300-05 HS24051300-06 HS24051300-07

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site 50
WorkOrder: HS24051300

QC BATCH REPORT

Batch ID: R467761 (0) **Instrument: VOA9** **Method: VOLATILES ORGANICS BY METHOD 8260C**

MBLK Sample ID: **VBLKW-240524** Units: **ug/L** Analysis Date: **24-May-2024 14:18**
Client ID: Run ID: **VOA9_467761** SeqNo: **8031898** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
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
Tetrachloroethene	1.0	1.0								U
Trichloroethene	1.0	1.0								U
Vinyl chloride	1.0	1.0								U
Surr: 1,2-Dichloroethane-d4	*57.86*	*35*	*50*	*0*	*116*	*81 - 118*				
Surr: 4-Bromofluorobenzene	*55.8*	*35*	*50*	*0*	*112*	*85 - 114*				
Surr: Dibromofluoromethane	*54.71*	*35*	*50*	*0*	*109*	*80 - 119*				
Surr: Toluene-d8	*55.64*	*35*	*50*	*0*	*111*	*89 - 112*				

LCS Sample ID: **VLCSW-240524** Units: **ug/L** Analysis Date: **24-May-2024 13:13**
Client ID: Run ID: **VOA9_467761** SeqNo: **8031896** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1-Dichloroethene	17.06	1.0	20	0	85.3	71 - 131				
1,2-Dichloroethane	19.33	1.0	20	0	96.7	73 - 128				
cis-1,2-Dichloroethene	17.33	1.0	20	0	86.6	78 - 123				
Tetrachloroethene	18.98	1.0	20	0	94.9	74 - 129				
Trichloroethene	18.06	1.0	20	0	90.3	79 - 123				
Vinyl chloride	17.63	1.0	20	0	88.2	58 - 137				
Surr: 1,2-Dichloroethane-d4	*55.24*	*35*	*50*	*0*	*110*	*81 - 118*				
Surr: 4-Bromofluorobenzene	*56.96*	*35*	*50*	*0*	*114*	*85 - 114*				
Surr: Dibromofluoromethane	*55.22*	*35*	*50*	*0*	*110*	*80 - 119*				
Surr: Toluene-d8	*55.42*	*35*	*50*	*0*	*111*	*89 - 112*				

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 07-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site 50
WorkOrder: HS24051300

QC BATCH REPORT

Batch ID: R467761 (0) **Instrument: VOA9** **Method: VOLATILES ORGANICS BY METHOD 8260C**

LCSD Sample ID: **VLCSDW-240524** Units: **ug/L** Analysis Date: **24-May-2024 13:35**
Client ID: Run ID: **VOA9_467761** SeqNo: **8031897** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
1,1-Dichloroethene	16.77	1.0	20	0	83.8	71 - 131	17.06	1.74	20	
1,2-Dichloroethane	19.25	1.0	20	0	96.2	73 - 128	19.33	0.446	20	
cis-1,2-Dichloroethene	16.98	1.0	20	0	84.9	78 - 123	17.33	2.02	20	
Tetrachloroethene	17.84	1.0	20	0	89.2	74 - 129	18.98	6.23	20	
Trichloroethene	17.15	1.0	20	0	85.7	79 - 123	18.06	5.17	20	
Vinyl chloride	17.4	1.0	20	0	87.0	58 - 137	17.63	1.3	20	
Surr: 1,2-Dichloroethane-d4	*56.48*	*35*	*50*	*0*	*113*	*81 - 118*	*55.24*	*2.22*	*20*	
Surr: 4-Bromofluorobenzene	*56.91*	*35*	*50*	*0*	*114*	*85 - 114*	*56.96*	*0.0971*	*20*	
Surr: Dibromofluoromethane	*56.62*	*35*	*50*	*0*	*113*	*80 - 119*	*55.22*	*2.49*	*20*	
Surr: Toluene-d8	*55.89*	*35*	*50*	*0*	*112*	*89 - 112*	*55.42*	*0.846*	*20*	

The following samples were analyzed in this batch: HS24051300-01 HS24051300-02 HS24051300-03 HS24051300-06 HS24051300-10

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site 50
WorkOrder: HS24051300

QC BATCH REPORT

Batch ID: R468007 (0) **Instrument: VOA9** **Method: VOLATILES ORGANICS BY METHOD 8260C**

MBLK Sample ID: **VBLKW-240529** Units: **ug/L** Analysis Date: **30-May-2024 04:55**
Client ID: Run ID: **VOA9_468007** SeqNo: **8037237** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
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
Tetrachloroethene	1.0	1.0								U
Trichloroethene	1.0	1.0								U
Vinyl chloride	1.0	1.0								U
Surr: 1,2-Dichloroethane-d4	*58.25*	*35*	*50*	*0*	*117*	*81 - 118*				
Surr: 4-Bromofluorobenzene	*54.55*	*35*	*50*	*0*	*109*	*85 - 114*				
Surr: Dibromofluoromethane	*56.36*	*35*	*50*	*0*	*113*	*80 - 119*				
Surr: Toluene-d8	*55.78*	*35*	*50*	*0*	*112*	*89 - 112*				

LCS Sample ID: **VLCSW-240529** Units: **ug/L** Analysis Date: **30-May-2024 03:50**
Client ID: Run ID: **VOA9_468007** SeqNo: **8037235** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1-Dichloroethene	18.5	1.0	20	0	92.5	71 - 131				
1,2-Dichloroethane	19.96	1.0	20	0	99.8	73 - 128				
cis-1,2-Dichloroethene	17.09	1.0	20	0	85.4	78 - 123				
Tetrachloroethene	18.99	1.0	20	0	95.0	74 - 129				
Trichloroethene	17.9	1.0	20	0	89.5	79 - 123				
Vinyl chloride	19.53	1.0	20	0	97.7	58 - 137				
Surr: 1,2-Dichloroethane-d4	*58.95*	*35*	*50*	*0*	*118*	*81 - 118*				
Surr: 4-Bromofluorobenzene	*55.58*	*35*	*50*	*0*	*111*	*85 - 114*				
Surr: Dibromofluoromethane	*58.13*	*35*	*50*	*0*	*116*	*80 - 119*				
Surr: Toluene-d8	*55.54*	*35*	*50*	*0*	*111*	*89 - 112*				

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 07-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site 50
WorkOrder: HS24051300

QC BATCH REPORT

Batch ID: R468007 (0) **Instrument: VOA9** **Method: VOLATILES ORGANICS BY METHOD 8260C**

MS Sample ID: **HS24051490-03MS** Units: **ug/L** Analysis Date: **30-May-2024 05:59**
Client ID: Run ID: **VOA9_468007** SeqNo: **8037239** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1-Dichloroethene	19.08	1.0	20	0	95.4	71 - 131				
1,2-Dichloroethane	19.69	1.0	20	0	98.5	73 - 128				
cis-1,2-Dichloroethene	16.82	1.0	20	0	84.1	78 - 123				
Tetrachloroethene	19.24	1.0	20	0	96.2	74 - 129				
Trichloroethene	18.02	1.0	20	0	90.1	79 - 123				
Vinyl chloride	20.01	1.0	20	0	100	58 - 137				
Surr: 1,2-Dichloroethane-d4	*57.99*	*35*	*50*	*0*	*116*	*81 - 118*				
Surr: 4-Bromofluorobenzene	*56.47*	*35*	*50*	*0*	*113*	*85 - 114*				
Surr: Dibromofluoromethane	*59.03*	*35*	*50*	*0*	*118*	*80 - 119*				
Surr: Toluene-d8	*56.63*	*35*	*50*	*0*	*113*	*89 - 112*				S

MSD Sample ID: **HS24051490-03MSD** Units: **ug/L** Analysis Date: **30-May-2024 06:21**
Client ID: Run ID: **VOA9_468007** SeqNo: **8037240** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1-Dichloroethene	18.56	1.0	20	0	92.8	71 - 131	19.08	2.78	20	
1,2-Dichloroethane	19.3	1.0	20	0	96.5	73 - 128	19.69	2.02	20	
cis-1,2-Dichloroethene	16.78	1.0	20	0	83.9	78 - 123	16.82	0.223	20	
Tetrachloroethene	19.15	1.0	20	0	95.8	74 - 129	19.24	0.45	20	
Trichloroethene	17.95	1.0	20	0	89.7	79 - 123	18.02	0.374	20	
Vinyl chloride	19.68	1.0	20	0	98.4	58 - 137	20.01	1.65	20	
Surr: 1,2-Dichloroethane-d4	*57.17*	*35*	*50*	*0*	*114*	*81 - 118*	*57.99*	*1.41*	*20*	
Surr: 4-Bromofluorobenzene	*56.42*	*35*	*50*	*0*	*113*	*85 - 114*	*56.47*	*0.0822*	*20*	
Surr: Dibromofluoromethane	*57.9*	*35*	*50*	*0*	*116*	*80 - 119*	*59.03*	*1.95*	*20*	
Surr: Toluene-d8	*57.32*	*35*	*50*	*0*	*115*	*89 - 112*	*56.63*	*1.21*	*20*	S

The following samples were analyzed in this batch: HS24051300-04 HS24051300-05 HS24051300-07 HS24051300-08 HS24051300-09

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site 50
WorkOrder: HS24051300

QC BATCH REPORT

Batch ID: R467429 (0) **Instrument: ICS-Integrion** **Method: ANIONS BY SW9056A**

MBLK Sample ID: **MBLK** Units: **mg/L** Analysis Date: **22-May-2024 13:03**
Client ID: Run ID: **ICS-Integrion_467429** SeqNo: **8024327** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	0.250	0.500								U
Nitrogen, Nitrate (As N)	0.0500	0.100								U

LCS Sample ID: **LCS** Units: **mg/L** Analysis Date: **22-May-2024 13:14**
Client ID: Run ID: **ICS-Integrion_467429** SeqNo: **8024328** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	20.91	0.500	20	0	105	80 - 120				
Nitrogen, Nitrate (As N)	3.953	0.100	4	0	98.8	80 - 120				

MS Sample ID: **HS24051292-03MS** Units: **mg/L** Analysis Date: **22-May-2024 18:05**
Client ID: Run ID: **ICS-Integrion_467429** SeqNo: **8024346** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	35.18	0.500	10	25.71	94.7	80 - 120				
Nitrogen, Nitrate (As N)	1.969	0.100	2	0.1156	92.7	80 - 120				

MSD Sample ID: **HS24051292-03MSD** Units: **mg/L** Analysis Date: **22-May-2024 18:11**
Client ID: Run ID: **ICS-Integrion_467429** SeqNo: **8024347** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	35.48	0.500	10	25.71	97.6	80 - 120	35.18	0.829	20	
Nitrogen, Nitrate (As N)	1.983	0.100	2	0.1156	93.4	80 - 120	1.969	0.698	20	

The following samples were analyzed in this batch: HS24051300-05 HS24051300-06 HS24051300-07

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site 50
WorkOrder: HS24051300

QC BATCH REPORT

Batch ID: R467711 (0) **Instrument: ICS-Integrion** **Method: ANIONS BY SW9056A**

MBLK Sample ID: **MBLK** Units: **mg/L** Analysis Date: **26-May-2024 14:29**
Client ID: Run ID: **ICS-Integrion_467711** SeqNo: **8030453** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sulfate	0.250	0.500								U

LCS Sample ID: **LCS** Units: **mg/L** Analysis Date: **26-May-2024 14:35**
Client ID: Run ID: **ICS-Integrion_467711** SeqNo: **8030454** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sulfate	21.38	0.500	20	0	107	80 - 120				

MS Sample ID: **HS24051384-01MS** Units: **mg/L** Analysis Date: **26-May-2024 14:53**
Client ID: Run ID: **ICS-Integrion_467711** SeqNo: **8030456** PrepDate: DF: **5**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sulfate	177.9	2.50	50	131.5	92.9	80 - 120				

MSD Sample ID: **HS24051384-01MSD** Units: **mg/L** Analysis Date: **26-May-2024 14:59**
Client ID: Run ID: **ICS-Integrion_467711** SeqNo: **8030457** PrepDate: DF: **5**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sulfate	177.4	2.50	50	131.5	91.9	80 - 120	177.9	0.291	20	

The following samples were analyzed in this batch: HS24051300-05 HS24051300-06 HS24051300-07

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 07-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site 50
WorkOrder: HS24051300

QC BATCH REPORT

Batch ID: R468619 (0) **Instrument:** TOC_05 **Method:** TOTAL ORGANIC CARBON - SM5310B-2011

MBLK Sample ID: **MBLK-06052024** Units: **mg/L** Analysis Date: **05-Jun-2024 23:09**
Client ID: Run ID: **TOC_05_468619** SeqNo: **8049998** 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-06052024** Units: **mg/L** Analysis Date: **05-Jun-2024 23:22**
Client ID: Run ID: **TOC_05_468619** SeqNo: **8049999** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Organic Carbon, Total	9.882	1.00	10	0	98.8	91 - 109				

LCSD Sample ID: **LCSD-06052024** Units: **mg/L** Analysis Date: **05-Jun-2024 23:34**
Client ID: Run ID: **TOC_05_468619** SeqNo: **8050000** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Organic Carbon, Total	9.647	1.00	10	0	96.5	91 - 109	9.882	2.41	20	

MS Sample ID: **HS24051300-05MS** Units: **mg/L** Analysis Date: **06-Jun-2024 00:09**
Client ID: **50WW14_052124** Run ID: **TOC_05_468619** SeqNo: **8050002** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Organic Carbon, Total	10.56	1.00	10	5.137	54.2	86 - 117				S

The following samples were analyzed in this batch: HS24051300-05 HS24051300-06 HS24051300-07

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 07-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site 50
WorkOrder: **HS24051300**

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

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CERTIFICATIONS,ACCREDITATIONS & LICENSES

Agency	Number	Expire Date
Arkansas	88-00356_2024	27-Mar-2025
California	2919; 2025	30-Apr-2025
Florida	E87611-38	30-Jun-2024
Illinois	2000322023-11	30-Jun-2024
Kansas	E-10352 2023-2024	31-Jul-2024
Kentucky	123043	30-Apr-2025
Louisiana	03087 2023-2024	30-Jun-2024
Maryland	343; 2023-2024	30-Jun-2024
North Carolina	624 - 2024	31-Dec-2024
Oklahoma	2023-140	31-Aug-2024
Tennessee	04016	30-Apr-2025
Texas	T104704231 TX-C24-00130	30-Apr-2025
Utah	TX026932023-14	31-Jul-2024

ALS Houston, US Date: 07-Jun-24

Sample Receipt Checklist

Work Order ID: HS24051300 **Date/Time Received:** 22-May-2024 10:15

Client Name: Bhate Environmental **Received by:** Jacob Coronado

Completed By: /S/ Jacob Coronado (eSignature) 22-May-2024 16:45 (Date/Time) **Reviewed by:** (eSignature) (Date/Time)

Matrices: w Carrier name: FedEx

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 ☐	
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):	3.2uc/3.3c	ir31
Cooler(s)/Kit(s):	52140	
Date/Time sample(s) sent to storage:	05/22/2024 1645	

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:

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bhate

Page: of 01332700

Project/Phase No: JVPCIBH.0001

COC Number(1):

LIMS Number:

1608 13th Avenue South, Suite 300
Birmingham Alabama 35205
Tel: 205-918-4000
Fax: 205-918-4050

Chain of Custody and Analytical Request

Facility/Base I.D.: LHAAP / **BILL to PCI**

Project/Site Name: LHAAP / Site 50

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 by SW 8260B	TOC by SM5310C	MEE by RSK 175	Anions by SW9056	CO2 by RSK 175	Perchlorate by SW 6850	Ambient Blank Lot Control Number	Equipment Blank Lot Control Number	Trip Blank Lot Control Number	Cooler ID
SDwwib_052024	20 MAY 2024	0950	-	N		wb	4	X					X				
SDwwi8_052024	20 MAY 2024	1040	-	N		wb	4	X					X				
SDwww22_052024	20 MAY 2024	1130	-	N		wb	4	X					X				
SDwwi5_052024	20 MAY 2024	1215		N		wb	4	X					X				
SDwwi4_052124	21 MAY 2024	0715		N		wb	13	X	X	X	X	X	X				
SDwwi3_052124	21 MAY 2024	0800	-	N		wb	13	X	X	X	X	X	X				
SDwwi1_052124	21 MAY 2024	0850	-	N		wb	13	X	X	X	X	X	X				
SDwww05_052124	21 MAY 2024	0935	-	N		wb	4	X					X				
SDww29_052124	21 MAY 2024	1025	-	N		wb	4	X					X				
TRIP BLANK_052124	21 MAY 2024		-	TB		w	2	X									
			-														

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

HS24051300

Bhate Environmental Associates, Inc.
LHAAP Site 50

COMMENTS: STANDARD TAT

Custody Transfers Prior to Receipt by Laboratory

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1.		5/21/24	1330			
2.						
3.						

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab: Shipped No.:

Method of Shipment:

Fed Ex Airbill Number:

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

ATTN: Dane Wamsley 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

RIGHT SOLUTIONS | RIGHT PARTNER

ALS
10450 Stancliff Rd., Suite 210
Houston, Texas 77099
Tel. +1 281 530 5656
Fax. +1 281 530 5887

52140

CUSTODY SEAL

Date: 5/21/24 Time: 1330
Name: Scott Beesinger
Company: Bhate

Seal Broken By:
Date: 05/22/24

52100 MAY 22 2024

Must Deliver Next Business Day
Time and Tempature Sensitive!

52140

ORIGIN ID:SGRA (903) 930-6193
SCOTT BEESINER
BHATE ENVIRONMENTAL ASSOCIATES
1203-B EAST GRAND AVE. PMB202
MARSHALL, TX 75670
UNITED STATES US

SHIP DATE: 14MAY24
ACTWGT: 1.00 LB MAN
CAD: 0221247/CAFE3755

TO **SAMPLE RECEIVING**
ALS GROUP USA,CORP
10450 STANCLIFF ROAD
SUITE 210
HOUSTON TX 77099
(281) 530-5656
REF: LIIAAP 69-BQ100866-LA

FedEx Express

FedEx
TRK# 6862 6805 6246

WED - 22 MAY AA
PRIORITY OVERNIGHT

77099
TX-US
IAH

AB SGRA

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Page: of 01332702

Project/Phase No: JVPCIBH.0001

COC Number(1):

LIMS Number:

1608 13th Avenue South, Suite 300
Birmingham Alabama 35205
Tel: 205-918-4000
Fax: 205-918-4050

Chain of Custody and Analytical Request

Facility/Base I.D.: LHAAP / **BILL to PCI**

Project/Site Name: LHAAP / Site 50

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 by SW 8260B	TOC by SM5310C	MEE by RSK 175	Anions by SW9056	CO2 by RSK 175	Perchlorate by SW 6850	Ambient Blank Lot Control Number	Equipment Blank Lot Control Number	Trip Blank Lot Control Number	Cooler ID
SDWW16_052024	20 MAY 2024	0950	-	N		WG	4	X					X				
SDWW18_052024	20 MAY 2024	1040	-	N		WG	4	X					X				
SDWW22_052024	20 MAY 2024	1130	-	N		WG	4	X					X				
SDWW15_052024	20 MAY 2024	1215	-	N		WG	4	X					X				
SDWW14_052124	21 MAY 2024	0715	-	N		WG	13	X	X	X	X	X	X				
SDWW13_052124	21 MAY 2024	0800	-	N		WG	13	X	X	X	X	X	X				
SDWW11_052124	21 MAY 2024	0850	-	N		WG	13	X	X	X	X	X	X				
SDWW05_052124	21 MAY 2024	0935	-	N		WG	4	X					X				
SDWW29_052124	21 MAY 2024	1025	-	N		WG	4	X					X				
TRIPBLANK_052124	21 MAY 2024		-	TB		W	2	X									
			-														

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

HS24051300

Bhate Environmental Associates, Inc.
LHAAP Site 50

COMMENTS: STANDARD TAT

Custody Transfers Prior to Receipt by Laboratory

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1. Scott Beesinger	5/21/24	1330	1.	5/22/24	1015
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 Stanchff 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

RIGHT SOLUTIONS | RIGHT PARTNER

ALS
10450 Stancliff Rd., Suite 210
Houston, Texas 77099
Tel. +1 281 530 5656
Fax. +1 281 530 5887

52140

CUSTODY SEAL

Date: 5/21/24 Time: 1330
Name: Scott Beesinger
Company: Pastic

Seal Broken By:
Date: 05/22/24

52140 MAY 22 2024

Must Deliver Next Business Day
Time and Tempature Sensitive!

52140

ORIGIN ID:SGRA (903) 930-6193
SCOTT BEESINER
BHATE ENVIRONMENTAL ASSOCIATES
1203-B EAST GRAND AVE. PMB202
MARSHALL, TX 75670
UNITED STATES US

SHIP DATE: 14MAY24
ACTWGT: 1.00 LB MAN
CAD: 0221247/CAFE3705

TO SAMPLE RECEIVING
ALS GROUP USA,CORP
10450 STANCLIFF ROAD
SUITE 210
HOUSTON TX 77099
(281) 530-5656
REF: LUBBOCK - BO100866 - LA

FedEx Express

WED - 22 MAY AA
PRIORITY OVERNIGHT

FedEx.
TRK# 0221 6862 6805 6246

77099
TX-US
IAH

AB SGRA

RIGHT SOLUTIONS | RIGHT PARTNER

June 05, 2024 Service Request No:E2400566

Luis Aguilar
ALS Environmental - US
10450 Stancliff Rd Suite 210
Houston, TX 77099

Laboratory Results for: HS24051300

Dear Luis,

Enclosed are the results of the sample(s) submitted to our laboratory May 22, 2024
For your reference, these analyses have been assigned our service request number **E2400566.**

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 2190. You may also contact me via email at hussam.kelany@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

HKelany

Hussam Kelany
Project Manager

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

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Client:	ALS Environmental - US	**Service Request No.:**	E2400566
Project:	HS24051300	**Date Received:**	05/22/24
Sample Matrix:	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 IV. When appropriate to the method, method blank results have been reported with each analytical test.

Sample Receipt

Nine samples were received for analysis at ALS Environmental in Houston on 05/22/24.

The samples were received in good condition and are 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:

EQ2400268: Laboratory Control Spike/Duplicate Laboratory Control Spike (LCS/DLCS) samples were analyzed and reported in lieu of a MS/MSD for this extraction batch.

IB20240531-067 had insufficient volume. No contamination detected. CCVs passed. Data not affected.

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:**E2400566

Project: HS24051300

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
E2400566-001	50WW16_052024	5/20/2024	0950
E2400566-002	50WW18_052024	5/20/2024	1040
E2400566-003	50WW22_052024	5/20/2024	1130
E2400566-004	50WW15_052024	5/20/2024	1215
E2400566-005	50WW14_052124	5/21/2024	0715
E2400566-006	50WW13_052124	5/21/2024	0800
E2400566-007	50WW11_052124	5/21/2024	0850
E2400566-008	50WW05_052124	5/21/2024	0935
E2400566-009	50WW29_052124	5/21/2024	1025

Service Request Summary

01332708

9 120 mL-Plastic Bottle Natural WM Unpreserved

Location: EHRMS-WIC 5D

Pressure Gas:

Folder #: **E2400566**
Client Name: ALS Environmental - US
Project Name: HS24051300
Project Number:

Report To: Luis Aguilar
ALS Environmental - US
10450 Stancliff Rd Suite 210
Houston, TX 77099
USA
Phone Number:
Cell Number:
Fax Number:
E-mail: luis.aguilar@alsglobal.com

Project Chemist: Hussam Kelany
Originating Lab: HOUSTON
Logged By: JCORONADO2
Date Received: 05/22/24
Internal Due Date: 6/6/2024
QAP: LAB QAP
Qualifier Set: Lab Standard
Formset: Lab Standard
Merged?: Y
Report to MDL?: Y
P.O. Number:
EDD: BASIC_WQC_CASNo

Lab Samp No.	Client Samp No	Matrix	Collected	HOUSTON ClO4 DOD/6850
E2400566-001	50WW16_052024	Water	05/20/24 0950	**IV**
E2400566-002	50WW18_052024	Water	05/20/24 1040	**IV**
E2400566-003	50WW22_052024	Water	05/20/24 1130	**IV**
E2400566-004	50WW15_052024	Water	05/20/24 1215	**IV**
E2400566-005	50WW14_052124	Water	05/21/24 0715	**IV**
E2400566-006	50WW13_052124	Water	05/21/24 0800	**IV**
E2400566-007	50WW11_052124	Water	05/21/24 0850	**IV**
E2400566-008	50WW05_052124	Water	05/21/24 0935	**IV**
E2400566-009	50WW29_052124	Water	05/21/24 1025	**IV**

Service Request Summary

Folder #: **E2400566**
Client Name: ALS Environmental - US
Project Name: HS24051300
Project Number:

Report To: Luis Aguilar
ALS Environmental - US
10450 Stancliff Rd Suite 210
Houston, TX 77099
USA
Phone Number:
Cell Number:
Fax Number:
E-mail: luis.aguilar@alsglobal.com

Project Chemist: Hussam Kelany
Originating Lab: HOUSTON
Logged By: JCORONADO2
Date Received: 05/22/24
Internal Due Date: 6/6/2024
QAP: LAB QAP
Qualifier Set: Lab Standard
Formset: Lab Standard
Merged?: Y
Report to MDL?: Y
P.O. Number:
EDD: BASIC_WQC_CASNo

01332709
9 120 mL-Plastic Bottle Natural WM Unpreserved
Location: EHRMS-WIC 5D
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.

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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.

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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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State Certifications, Accreditations, and Licenses

Agency	Number	Expire Date
Arkansas Department of Environmental Quality	88-00356	3/28/2025
California State Environmental Laboratory Accreditation Program	2919-2024	4/30/2025
Department of Defense	L24-240	4/30/2026
Florida Department of Health	E87611-38	6/30/2024
Hawaii Department of Health	2024	4/30/2025
Illinois Environmental Protection Agency	2000322023-11	6/30/2024
Kansas Department of Health and Environment	E-10352 2023-2024	7/31/2024
Louisiana Department of Environmental Quality	03087-2023	6/30/2024
Louisiana Department of Health and Hospitals	LA028-2024	12/31/2024
Maryland Department of the Environment	343-2023	6/30/2024
Minnesota Department of Health	2645386	12/31/2024
Nevada Division of Environmental Protection	TX026932024-1	7/31/2024
New Hampshire Environmental Laboratory Accreditation Program	209424-A	4/24/2025
New Jersey Department of Environmental Protection	TX008-2024	6/30/2024
Oklahoma Department of Environmental Quality	2023-140	8/31/2024
Oregon Environmental Laboratory Accreditation Program	TX200002-2024	5/15/2025
Pennsylvania Department of Environmental Protection	68-03441-017	6/30/2024
Tennessee Department of Environment and Conservation	04016-2024	4/30/2025
Texas Commision on Environmental Quality	TX-C24-00130	4/30/2025
Utah Department of Health Environmental Laboratory Certification	TX026932023-14	7/31/2024
Washington Department of Ecology	C819-23	11/14/2024

Chain of Custody

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E2400566 5
ALS Environmental - US
HS24051300

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Subcontract Chain of Custody

SAMPLING STATE: **Colorado** **COC ID:** **25767**

SUBCONTRACT TO:

ALS Environmental
10450 Stancliff RoadSuite 210
Houston, TX 77084

Phone: +1 281 530 5656

CUSTOMER INFORMATION:

Company:	ALS Houston
Contact:	Luis.Aguilar
Address:	10450 Stancliff Rd, Ste 210
Phone:	+1 281 530 5656
Email:	luis.aguilar@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:	HS24051300
TSR:	Sonia West

	LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	COLLECT DATE
	ANALYSIS REQUESTED			DUE DATE
1.	**HS24051300-01**	**SOWW16_052024**	**Groundwater**	**20 May 2024 09:50**
	6850 DOD Level II & Level IV PDF, LHAAP EQUIS EDD			06 Jun 2024
2.	**HS24051300-02**	**SOWW18_052024**	**Groundwater**	**20 May 2024 10:40**
	6850 DOD Level II & Level IV PDF, LHAAP EQUIS EDD			06 Jun 2024
3.	**HS24051300-03**	**SOWW22_052024**	**Groundwater**	**20 May 2024 11:30**
	6850 DOD Level II & Level IV PDF, LHAAP EQUIS EDD			06 Jun 2024
4.	**HS24051300-04**	**SOWW15_052024**	**Groundwater**	**20 May 2024 12:15**
	6850 DOD Level II & Level IV PDF, LHAAP EQUIS EDD			06 Jun 2024
5.	**HS24051300-05**	**SOWW14_052124**	**Groundwater**	**21 May 2024 07:15**
	6850 DOD Level II & Level IV PDF, LHAAP EQUIS EDD			06 Jun 2024
6.	**HS24051300-06**	**SOWW13_052124**	**Groundwater**	**21 May 2024 08:00**
	6850 DOD Level II & Level IV PDF, LHAAP EQUIS EDD			06 Jun 2024
7.	**HS24051300-07**	**SOWW11_052124**	**Groundwater**	**21 May 2024 08:50**
	6850 DOD Level II & Level IV PDF, LHAAP EQUIS EDD			06 Jun 2024
8.	**HS24051300-08**	**SOWW05_052124**	**Groundwater**	**21 May 2024 09:35**
	6850 DOD Level II & Level IV PDF, LHAAP EQUIS EDD			06 Jun 2024
9.	**HS24051300-09**	**SOWW29_052124**	**Groundwater**	**21 May 2024 10:25**

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Subcontract Chain of Custody

SAMPLING STATE: **Colorado** **COC ID:** **25767**

LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	COLLECT DATE
ANALYSIS REQUESTED			DUE DATE
6850 DOD Level II & Level IV PDF, LHAAP EQUIS EDD			06 Jun 2024

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: 5/22/24 1015

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

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E2400566
ALS Environmental - US
HS24061300

5

01332717

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Sample Receipt Checklist

Work Order ID: HS24051300 **Date/Time received:** 22 May 2024 10:15

Client name: Bhate Environmental Associates, Inc. **Received by:** Jacob Coronado

Completed/By: 22 May 2024 16:45 Jacob Coronado **Reviewed/By:**
Date/Time eSignature Date/Time eSignature

Matrices: w **Carrier name:** FedEx

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 ID(s):
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): 3.2uc/3.3c ir31

Cooler Information: 1 Cooler(s), 52140

Date/Time sample(s) sent to storage: 05/22/2024 1645

Water - VOA vials have zero headspace?	☑ Yes	☐ No	☐ No VOA vials submitted
Water - pH acceptable upon receipt?	☐ Yes	☐ No	☑ Not Applicable
pH adjusted?	☐ Yes	☐ No	☑ Not Applicable

pH adjusted by:

Login notes:

Client contacted: **Date contacted:** **Person contacted:**

Contacted by: **Regarding:**

Comments:

Corrective action:

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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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Preparation Information Benchsheet

01332720

Prep Run#: 439292 **Prep WorkFlow:** GenExt28Day **Status:** Prepped
Team: Semivoa GCMS/CGUERRA **Prep Method:** Method **Prep Date/Time:** 5/30/24 13:14

#	Lab Code	Client ID	B#	Method /Test	pH	Cl	Matrix	Amt. Ext.	Sample Description
1	E2400556-001	2405091420Y 700-H-535	.01	6850/ClO4 DOD			Water	10mL	
2	E2400556-002	2405101000Y 700-H-350	.01	6850/ClO4 DOD			Water	10mL	
3	E2400556-003	2405131447B BLM-32-543	.01	6850/ClO4 DOD			Water	10mL	
4	E2400557-001	2405141431B WW-4-419	.01	6850/ClO4 DOD			Water	10mL	
5	E2400557-002	2405141447B WW-4-589	.01	6850/ClO4 DOD			Water	10mL	
6	E2400563-001	2405151418B WW-4-848	.01	6850/ClO4 DOD			Water	10mL	
7	E2400563-002	2405151435B WW-4-948	.01	6850/ClO4 DOD			Water	10mL	
8	E2400563-003	2405151506Y PL-7-560	.01	6850/ClO4 DOD			Water	10mL	
9	E2400566-001	50WW16_052024	.01	6850/ClO4 DOD			Water	10mL	
10	E2400566-002	50WW18_052024	.01	6850/ClO4 DOD			Water	10mL	
11	E2400566-003	50WW22_052024	.01	6850/ClO4 DOD			Water	10mL	
12	E2400566-004	50WW15_052024	.01	6850/ClO4 DOD			Water	10mL	
13	E2400566-005	50WW14_052124	.01	6850/ClO4 DOD			Water	10mL	
14	E2400566-006	50WW13_052124	.01	6850/ClO4 DOD			Water	10mL	
15	E2400566-007	50WW11_052124	.01	6850/ClO4 DOD			Water	10mL	
16	E2400566-008	50WW05_052124	.01	6850/ClO4 DOD			Water	10mL	
17	E2400566-009	50WW29_052124	.01	6850/ClO4 DOD			Water	10mL	
18	E2400568-001	LH18/24-SP140_052124	.01	6850/ClO4 DOD			Water	10mL	
19	E2400569-001	LH18/24-SP650_052124_AIX	.01	6850/ClO4 DOD			Water	10mL	
20	EQ2400268-01	MB		6850/ClO4 DOD			Liquid	10mL	
21	EQ2400268-02	LCS		6850/ClO4 DOD			Liquid	10mL	
22	EQ2400268-03	DLCS		6850/ClO4 DOD			Liquid	10mL	
23	EQ2400268-04	ICS		6850/ClO4 DOD			Liquid	10mL	

Spiking Solutions

Name: Perchlorate Anion Spiking Soln. 25,000 ppm Inventory ID 233595 Logbook Ref: Expires On: 08/04/2024

EQ2400268-04 20.00µL

Name: Perchlorate Intermediate Stock 3 Inventory ID 234838 Logbook Ref: Perchlorate Inter. Stock 3 NMV Expires On: 10/25/2024

EQ2400268-02 100.00µL EQ2400268-03 100.00µL EQ2400268-04 100.00µL

Name: Perchlorate Internal Standard 1ug/mL Inventory ID 235428 Logbook Ref: Perchlorate IS cg5/24/24 Expires On: 11/24/2024

E2400556-001 100.00µL E2400556-002 100.00µL E2400556-003 100.00µL E2400557-001 100.00µL E2400557-002 100.00µL E2400563-001 100.00µL

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Preparation Information Benchsheet

01332721

Prep Run#: 439292 **Prep WorkFlow:** GenExt28Day **Status:** Prepped

Team: Semivoa GCMS/CGUERRA **Prep Method:** Method **Prep Date/Time:** 5/30/24 13:14

E2400563-002	100.00µL	E2400563-003	100.00µL	E2400566-001	100.00µL	E2400566-002	100.00µL	E2400566-003	100.00µL	E2400566-004	100.00µL
E2400566-005	100.00µL	E2400566-006	100.00µL	E2400566-007	100.00µL	E2400566-008	100.00µL	E2400566-009	100.00µL	E2400568-001	100.00µL
E2400569-001	100.00µL	EQ2400268-01	100.00µL	EQ2400268-02	100.00µL	EQ2400268-03	100.00µL	EQ2400268-04	100.00µL		

Preparation Materials

Water HPLC Grade	HPLC WATER 04/15/24 (233144)	6850 0.45um syringe filters	6850 0.45 SYRING FILTER (229979)	6850 Luer-Lok Syringes	Luer Lok Syringes (235267)

Preparation Steps

Step: Preparation
Started: 5/30/24 13:14
Finished: 5/30/24 15:00
By: CGUERRA
Comments

Comments: _____

Reviewed By: _____ Date: _____

Chain of Custody

Relinquished By: _____ Date: _____

Received By: _____ Date: _____

Extracts Examined
Yes No

Analytical Results

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ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400566
Project:	HS24051300	**Date Collected:**	5/20/24 0950
Sample Matrix:	Water	**Date Received:**	5/22/24
Sample Name:	50WW16_052024	**Units:**	µg/L
Lab Code:	E2400566-001	**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	**0.120**		0.100	0.0500	0.0250	1	5/30/24	5/30/24 21:03	439292	842622	

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400566
Project:	HS24051300	**Date Collected:**	5/20/24 1040
Sample Matrix:	Water	**Date Received:**	5/22/24
Sample Name:	50WW18_052024	**Units:**	µg/L
Lab Code:	E2400566-002	**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	0.200	0.100	0.0500	2	5/30/24	5/31/24 17:44	439292	842781	

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400566
Project:	HS24051300	**Date Collected:**	5/20/24 1130
Sample Matrix:	Water	**Date Received:**	5/22/24
Sample Name:	50WW22_052024	**Units:**	µg/L
Lab Code:	E2400566-003	**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	**0.694**	J	1.00	0.500	0.250	10	5/30/24	6/3/24 14:40	439292	842873	

Client:	ALS Environmental - US	**Service Request:**	E2400566
Project:	HS24051300	**Date Collected:**	5/20/24 1215
Sample Matrix:	Water	**Date Received:**	5/22/24
Sample Name:	50WW15_052024	**Units:**	µg/L
Lab Code:	E2400566-004	**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	**0.220**		0.100	0.0500	0.0250	1	5/30/24	5/30/24 21:19	439292	842622	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400566
Project:	HS24051300	**Date Collected:**	5/21/24 0715
Sample Matrix:	Water	**Date Received:**	5/22/24
Sample Name:	50WW14_052124	**Units:**	µg/L
Lab Code:	E2400566-005	**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	1.00	0.500	0.250	10	5/30/24	6/3/24 14:45	439292	842873	

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400566
Project:	HS24051300	**Date Collected:**	5/21/24 0800
Sample Matrix:	Water	**Date Received:**	5/22/24
Sample Name:	50WW13_052124	**Units:**	µg/L
Lab Code:	E2400566-006	**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	**121**		1.00	0.500	0.250	10	5/30/24	5/31/24 16:59	439292	842781	

Client:	ALS Environmental - US	**Service Request:**	E2400566
Project:	HS24051300	**Date Collected:**	5/21/24 0850
Sample Matrix:	Water	**Date Received:**	5/22/24
Sample Name:	50WW11_052124	**Units:**	µg/L
Lab Code:	E2400566-007	**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	**268**		1.00	0.500	0.250	10	5/30/24	5/31/24 17:05	439292	842781	

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400566
Project:	HS24051300	**Date Collected:**	5/21/24 0935
Sample Matrix:	Water	**Date Received:**	5/22/24
Sample Name:	50WW05_052124	**Units:**	µg/L
Lab Code:	E2400566-008	**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	5/30/24	5/31/24 16:43	439292	842781	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400566
Project:	HS24051300	**Date Collected:**	5/21/24 1025
Sample Matrix:	Water	**Date Received:**	5/22/24
Sample Name:	50WW29_052124	**Units:**	µg/L
Lab Code:	E2400566-009	**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	**0.606**	J	1.00	0.500	0.250	10	5/30/24	6/3/24 14:51	439292	842873	

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400566
Project:	HS24051300	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	µg/L
Lab Code:	EQ2400268-01	**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	5/30/24	5/31/24 14:35	439292	842781	

Accuracy & Precision

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

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QA/QC Report

Client: ALS Environmental - US **Service Request:** E2400566
Project: HS24051300 **Date Analyzed:** 5/31/24
Sample Matrix: 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: 439292

	Lab Control Sample EQ2400268-02			Duplicate Lab Control Sample EQ2400268-03					
Analyte Name	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Perchlorate	0.106	0.100	106	0.105	0.100	105	84 - 119	1	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:**	E2400566
Project:	HS24051300	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Lab Control Sample	**Units:**	µg/L
Lab Code:	EQ2400268-02	**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	**0.106**		0.100	0.0500	0.0250	1	5/30/24	5/31/24 14:41	439292	842781	

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400566
Project:	HS24051300	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Duplicate Lab Control Sample	**Units:**	µg/L
Lab Code:	EQ2400268-03	**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	**0.105**		0.100	0.0500	0.0250	1	5/30/24	5/31/24 14:46	439292	842781	

ANALYTICAL REPORT

PREPARED FOR

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

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JOB DESCRIPTION

HS24051300

JOB NUMBER

410-173355-1

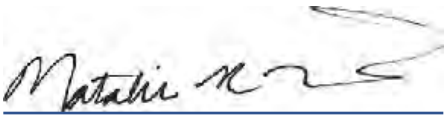
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Job Notes

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



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Revision 1

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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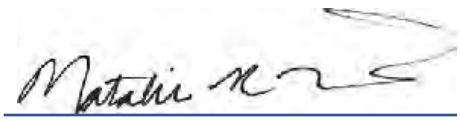


Table of Contents

Cover Page 1
Table of Contents 4
Definitions/Glossary 5
Case Narrative 6
Detection Summary 7
Client Sample Results 8
QC Sample Results 9
QC Association Summary 10
Lab Chronicle 11
Certification Summary 12
Method Summary 13
Sample Summary 14
Chain of Custody 15
Receipt Checklists 16

Definitions/Glossary

Client: ALS Group USA, Corp
Project/Site: HS24051300

Job ID: 410-173355-1

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

Case Narrative

Client: ALS Group USA, Corp
Project: HS24051300

Job ID: 410-173355-1

Job ID: 410-173355-1 — Eurofins Lancaster Laboratories Environment

Job Narrative
410-173355-1

REVISION

The report being provided is a revision of the original report sent on 5/29/2024. The report (revision 1) is being revised due to the addition of a receipt exception comment regarding the COC.

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- 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 may be 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.

Receipt
The samples were received on 5/24/2024 9:45 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 3.7°C.

Receipt Exceptions
The Chain-of-Custody (COC) was incomplete as received. The COC is missing Sample Preservation, Number of containers per sample, Sample Type (Grab or Composite). This does not meet regulatory requirements.

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: HS24051300

Job ID: 410-173355-1

Client Sample ID: 50WW14_052124 — Lab Sample ID: 410-173355-1

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
Carbon dioxide	110000		12000	5600	ug/L	1		RSK-175	Total/NA

Client Sample ID: 50WW13_052124 — Lab Sample ID: 410-173355-2

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
Carbon dioxide	280000	M	12000	5600	ug/L	1		RSK-175	Total/NA

Client Sample ID: 50WW11_052124 — Lab Sample ID: 410-173355-3

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
Carbon dioxide	62000		12000	5600	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: HS24051300

Job ID: 410-173355-1

Client Sample ID: 50WW14_052124
Lab Sample ID: 410-173355-1
Date Collected: 05/21/24 07:15
Matrix: Water
Date Received: 05/24/24 09:45

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	110000		12000	5600	ug/L		05/28/24 10:08	05/28/24 11:35	1

Client Sample ID: 50WW13_052124
Lab Sample ID: 410-173355-2
Date Collected: 05/21/24 08:00
Matrix: Water
Date Received: 05/24/24 09:45

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	280000	M	12000	5600	ug/L		05/28/24 10:08	05/28/24 11:43	1

Client Sample ID: 50WW11_052124
Lab Sample ID: 410-173355-3
Date Collected: 05/21/24 08:50
Matrix: Water
Date Received: 05/24/24 09:45

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	62000		12000	5600	ug/L		05/28/24 10:08	05/28/24 12:04	1

QC Sample Results

Client: ALS Group USA, Corp
Project/Site: HS24051300

Job ID: 410-173355-1

Method: RSK-175 - Dissolved Gases (GC)

Lab Sample ID: MB 410-510950/1-A
Matrix: Water
Analysis Batch: 510895

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 510950

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	5600	U M	12000	5600	ug/L		05/28/24 10:08	05/28/24 10:33	1

Lab Sample ID: LCS 410-510950/2-A
Matrix: Water
Analysis Batch: 510895

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 510950

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Carbon dioxide			35800	35500		ug/L		99	80 - 122		

Lab Sample ID: LCSD 410-510950/3-A
Matrix: Water
Analysis Batch: 510895

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 510950

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Carbon dioxide			35800	34600		ug/L		96	80 - 122	3	20

QC Association Summary

Client: ALS Group USA, Corp
Project/Site: HS24051300

Job ID: 410-173355-1

GC VOA

Analysis Batch: 510895

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-173355-1	50WW14_052124	Total/NA	Water	RSK-175	510950
410-173355-2	50WW13_052124	Total/NA	Water	RSK-175	510950
410-173355-3	50WW11_052124	Total/NA	Water	RSK-175	510950
MB 410-510950/1-A	Method Blank	Total/NA	Water	RSK-175	510950
LCS 410-510950/2-A	Lab Control Sample	Total/NA	Water	RSK-175	510950
LCSD 410-510950/3-A	Lab Control Sample Dup	Total/NA	Water	RSK-175	510950

Prep Batch: 510950

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-173355-1	50WW14_052124	Total/NA	Water	RSK-175	
410-173355-2	50WW13_052124	Total/NA	Water	RSK-175	
410-173355-3	50WW11_052124	Total/NA	Water	RSK-175	
MB 410-510950/1-A	Method Blank	Total/NA	Water	RSK-175	
LCS 410-510950/2-A	Lab Control Sample	Total/NA	Water	RSK-175	
LCSD 410-510950/3-A	Lab Control Sample Dup	Total/NA	Water	RSK-175	

Lab Chronicle

Client: ALS Group USA, Corp
Project/Site: HS24051300

Job ID: 410-173355-1

Client Sample ID: 50WW14_052124
Lab Sample ID: 410-173355-1
Date Collected: 05/21/24 07:15
Matrix: Water
Date Received: 05/24/24 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	RSK-175			510950	HQR6	ELLE	05/28/24 10:08
Total/NA	Analysis	RSK-175		1	510895	LXF2	ELLE	05/28/24 11:35

Client Sample ID: 50WW13_052124
Lab Sample ID: 410-173355-2
Date Collected: 05/21/24 08:00
Matrix: Water
Date Received: 05/24/24 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	RSK-175			510950	HQR6	ELLE	05/28/24 10:08
Total/NA	Analysis	RSK-175		1	510895	LXF2	ELLE	05/28/24 11:43

Client Sample ID: 50WW11_052124
Lab Sample ID: 410-173355-3
Date Collected: 05/21/24 08:50
Matrix: Water
Date Received: 05/24/24 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	RSK-175			510950	HQR6	ELLE	05/28/24 10:08
Total/NA	Analysis	RSK-175		1	510895	LXF2	ELLE	05/28/24 12:04

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: HS24051300

Job ID: 410-173355-1

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	05-30-24

Method Summary

Client: ALS Group USA, Corp
Project/Site: HS24051300

Job ID: 410-173355-1

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

01332750

Client: ALS Group USA, Corp
Project/Site: HS24051300

Job ID: 410-173355-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
410-173355-1	50WW14_052124	Water	05/21/24 07:15	05/24/24 09:45
410-173355-2	50WW13_052124	Water	05/21/24 08:00	05/24/24 09:45
410-173355-3	50WW11_052124	Water	05/21/24 08:50	05/24/24 09:45

410-173355 Chain of Custody

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Houston, TX 77099
T: +1 281 530 5656
F: +1 281 530 5887
www.alsglobal.com

Subcontract Chain of Custody

SAMPLING STATE: Colorado **COC ID:** 25769

SUBCONTRACT TO:

Eurofins Lancaster Laboratories Envt Testing
2425 New Holland Pike
Lancaster, PA 17601 **Phone:** +1 717 656 2300

CUSTOMER INFORMATION:

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Phone:	+1 281 530 5656
Email:	luis.aguilar@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:	HS24051300
TSR:	Sonia West

	LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	COLLECT DATE
	ANALYSIS REQUESTED			DUE DATE
1.	**HS24051300-05**	**SOWW14_052124**	**Groundwater**	**21 May 2024 07:15**
	RSK175 CO2; LHAAP; DoD Level IV, LHAAP EQUIS EDD			06 Jun 2024
2.	**HS24051300-06**	**SOWW13_052124**	**Groundwater**	**21 May 2024 08:00**
	RSK175 CO2; LHAAP; DoD Level IV, LHAAP EQUIS EDD			06 Jun 2024
3.	**HS24051300-07**	**SOWW11_052124**	**Groundwater**	**21 May 2024 08:50**
	RSK175 CO2; LHAAP; DoD Level IV, LHAAP EQUIS EDD			06 Jun 2024

Comments: Please analyze for the analysis listed above.
Send report to the emails shown above.

QC Level: DOD IV (DoD Data Package)

Relinquished By: AM **Date/Time:** 5/23/24 18:00

Received By: [signature] **Date/Time:** 5/24/24 0945

Cooler ID(s): **Temperature(s):**

R: 3.8

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Login Sample Receipt Checklist

Client: ALS Group USA, Corp

Job Number: 410-173355-1

Login Number: 173355
List Number: 1
Creator: Arroyo, Haley

List Source: Eurofins Lancaster Laboratories Environment Testing, LLC

Question	Answer	Comment
The cooler's custody seal is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature acceptable,where thermal pres is required(</=6C, not frozen).	True	
Cooler Temperature is recorded.	True	
WV:Container Temp acceptable,where thermal pres is required (</=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.	False	Refer to Job Narrative for details.
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	

HS24051300-MSVOA-SW8260

ALS WO# HS24051300

01332754

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Form 1

Organic Analysis Data Sheet

Volatiles by EPA Volatiles Organics by Method 8260C

Workorder

HS24051300

Client

Bhate Environmental Associates, Inc.

Project

LHAAP Site 50

06/22/2024

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.	Workorder	
Project	LHAAP Site 50	**HS24051300**	

Volatiles by EPA Volatiles Organics by Method 8260C

50WW16_052024	Collected	Received	Matrix	Basis
HS24051300-01	05/20/24 09:50	05/22/24 10:15	Groundwater	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
1,1-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	05/24/24 17:32	VOA9_467761	U052415.D
1,2-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	05/24/24 17:32	VOA9_467761	U052415.D
cis-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	05/24/24 17:32	VOA9_467761	U052415.D
Tetrachloroethene	ug/L	1.0	U	0.30	1.0	1.0	1	05/24/24 17:32	VOA9_467761	U052415.D
Trichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	05/24/24 17:32	VOA9_467761	U052415.D
Vinyl chloride	ug/L	1.0	U	0.20	1.0	1.0	1	05/24/24 17:32	VOA9_467761	U052415.D

Form 1 - Organic Analysis Data Sheet

Client	Bhate Environmental Associates, Inc.	Workorder	
Project	LHAAP Site 50	HS24051300	

Volatiles by EPA Volatiles Organics by Method 8260C

50WW18_052024	Collected	Received	Matrix	Basis
HS24051300-02	05/20/24 10:40	05/22/24 10:15	Groundwater	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
1,1-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	05/24/24 17:53	VOA9_467761	U052416.D
1,2-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	05/24/24 17:53	VOA9_467761	U052416.D
cis-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	05/24/24 17:53	VOA9_467761	U052416.D
Tetrachloroethene	ug/L	1.0	U	0.30	1.0	1.0	1	05/24/24 17:53	VOA9_467761	U052416.D
Trichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	05/24/24 17:53	VOA9_467761	U052416.D
Vinyl chloride	ug/L	1.0	U	0.20	1.0	1.0	1	05/24/24 17:53	VOA9_467761	U052416.D

Form 1 - Organic Analysis Data Sheet

Client	Bhate Environmental Associates, Inc.	Workorder	
Project	LHAAP Site 50	**HS24051300**	

Volatiles by EPA Volatiles Organics by Method 8260C

50WW22_052024	Collected	Received	Matrix	Basis
HS24051300-03	05/20/24 11:30	05/22/24 10:15	Groundwater	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
1,1-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	05/24/24 18:15	VOA9_467761	U052417.D
1,2-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	05/24/24 18:15	VOA9_467761	U052417.D
cis-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	05/24/24 18:15	VOA9_467761	U052417.D
Tetrachloroethene	ug/L	1.0	U	0.30	1.0	1.0	1	05/24/24 18:15	VOA9_467761	U052417.D
Trichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	05/24/24 18:15	VOA9_467761	U052417.D
Vinyl chloride	ug/L	1.0	U	0.20	1.0	1.0	1	05/24/24 18:15	VOA9_467761	U052417.D

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP Site 50

Workorder HS24051300

Volatiles by EPA Volatiles Organics by Method 8260C

50WW15_052024	Collected	Received	Matrix	Basis
HS24051300-04	05/20/24 12:15	05/22/24 10:15	Groundwater	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
1,1-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	05/30/24 07:31	VOA9_468007	W052813.D
1,2-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	05/30/24 07:31	VOA9_468007	W052813.D
cis-1,2-Dichloroethene	ug/L	1.8		0.20	1.0	1.0	1	05/30/24 07:31	VOA9_468007	W052813.D
Tetrachloroethene	ug/L	0.93	J	0.30	1.0	1.0	1	05/30/24 07:31	VOA9_468007	W052813.D
Trichloroethene	ug/L	4.8		0.20	1.0	1.0	1	05/30/24 07:31	VOA9_468007	W052813.D
Vinyl chloride	ug/L	1.0	U	0.20	1.0	1.0	1	05/30/24 07:31	VOA9_468007	W052813.D

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP Site 50

Workorder **HS24051300**

Volatiles by EPA Volatiles Organics by Method 8260C

50WW14_052124	Collected	Received	Matrix	Basis
HS24051300-05	05/21/24 07:15	05/22/24 10:15	Groundwater	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
1,1-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	05/30/24 07:52	VOA9_468007	W052814.D
1,2-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	05/30/24 07:52	VOA9_468007	W052814.D
cis-1,2-Dichloroethene	ug/L	4.7		0.20	1.0	1.0	1	05/30/24 07:52	VOA9_468007	W052814.D
Tetrachloroethene	ug/L	1.0	U	0.30	1.0	1.0	1	05/30/24 07:52	VOA9_468007	W052814.D
Trichloroethene	ug/L	24		0.20	1.0	1.0	1	05/30/24 07:52	VOA9_468007	W052814.D
Vinyl chloride	ug/L	1.0	U	0.20	1.0	1.0	1	05/30/24 07:52	VOA9_468007	W052814.D

Form 1 - Organic Analysis Data Sheet

Client	Bhate Environmental Associates, Inc.	Workorder	
Project	LHAAP Site 50	**HS24051300**	

Volatiles by EPA Volatiles Organics by Method 8260C

50WW13_052124	Collected	Received	Matrix	Basis
HS24051300-06	05/21/24 08:00	05/22/24 10:15	Groundwater	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
1,1-Dichloroethene	ug/L	5.0	U	1.0	5.0	5.0	5	05/24/24 19:44	VOA9_467761	U052421.D
1,2-Dichloroethane	ug/L	5.0	U	1.0	5.0	5.0	5	05/24/24 19:44	VOA9_467761	U052421.D
cis-1,2-Dichloroethene	ug/L	24		1.0	5.0	5.0	5	05/24/24 19:44	VOA9_467761	U052421.D
Tetrachloroethene	ug/L	5.0	U	1.5	5.0	5.0	5	05/24/24 19:44	VOA9_467761	U052421.D
Trichloroethene	ug/L	470		1.0	5.0	5.0	5	05/24/24 19:44	VOA9_467761	U052421.D
Vinyl chloride	ug/L	5.0	U	1.0	5.0	5.0	5	05/24/24 19:44	VOA9_467761	U052421.D

Form 1 - Organic Analysis Data Sheet

Client	Bhate Environmental Associates, Inc.	Workorder	
Project	LHAAP Site 50	**HS24051300**	

Volatiles by EPA Volatiles Organics by Method 8260C

50WW11_052124	Collected	Received	Matrix	Basis
HS24051300-07	05/21/24 08:50	05/22/24 10:15	Groundwater	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
1,1-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	05/30/24 08:13	VOA9_468007	W052815.D
1,2-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	05/30/24 08:13	VOA9_468007	W052815.D
cis-1,2-Dichloroethene	ug/L	11		0.20	1.0	1.0	1	05/30/24 08:13	VOA9_468007	W052815.D
Tetrachloroethene	ug/L	1.0	U	0.30	1.0	1.0	1	05/30/24 08:13	VOA9_468007	W052815.D
Trichloroethene	ug/L	140		0.20	1.0	1.0	1	05/30/24 08:13	VOA9_468007	W052815.D
Vinyl chloride	ug/L	1.0	U	0.20	1.0	1.0	1	05/30/24 08:13	VOA9_468007	W052815.D

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP Site 50

Workorder **HS24051300**

Volatiles by EPA Volatiles Organics by Method 8260C

50WW05_052124	Collected	Received	Matrix	Basis
HS24051300-08	05/21/24 09:35	05/22/24 10:15	Groundwater	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
1,1-Dichloroethene	ug/L	3.1		0.20	1.0	1.0	1	05/30/24 08:35	VOA9_468007	W052816.D
1,2-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	05/30/24 08:35	VOA9_468007	W052816.D
cis-1,2-Dichloroethene	ug/L	120		0.20	1.0	1.0	1	05/30/24 08:35	VOA9_468007	W052816.D
Tetrachloroethene	ug/L	0.79	J	0.30	1.0	1.0	1	05/30/24 08:35	VOA9_468007	W052816.D
Trichloroethene	ug/L	150		0.20	1.0	1.0	1	05/30/24 08:35	VOA9_468007	W052816.D
Vinyl chloride	ug/L	1.0	U	0.20	1.0	1.0	1	05/30/24 08:35	VOA9_468007	W052816.D

Form 1 - Organic Analysis Data Sheet

Client	Bhate Environmental Associates, Inc.	Workorder	
Project	LHAAP Site 50	**HS24051300**	

Volatiles by EPA Volatiles Organics by Method 8260C

50WW29_052124	Collected	Received	Matrix	Basis
HS24051300-09	05/21/24 10:25	05/22/24 10:15	Groundwater	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
1,1-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	05/30/24 08:56	VOA9_468007	W052817.D
1,2-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	05/30/24 08:56	VOA9_468007	W052817.D
cis-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	05/30/24 08:56	VOA9_468007	W052817.D
Tetrachloroethene	ug/L	1.0	U	0.30	1.0	1.0	1	05/30/24 08:56	VOA9_468007	W052817.D
Trichloroethene	ug/L	0.47	J	0.20	1.0	1.0	1	05/30/24 08:56	VOA9_468007	W052817.D
Vinyl chloride	ug/L	1.0	U	0.20	1.0	1.0	1	05/30/24 08:56	VOA9_468007	W052817.D

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP Site 50

Workorder **HS24051300**

Volatiles by EPA Volatiles Organics by Method 8260C

Trip Blank_052124

	Collected	Received	Matrix	Basis
HS24051300-10	05/21/24 00:00	05/22/24 10:15	Water	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
1,1-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	05/24/24 16:49	VOA9_467761	U052413.D
1,2-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	05/24/24 16:49	VOA9_467761	U052413.D
cis-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	05/24/24 16:49	VOA9_467761	U052413.D
Tetrachloroethene	ug/L	1.0	U	0.30	1.0	1.0	1	05/24/24 16:49	VOA9_467761	U052413.D
Trichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	05/24/24 16:49	VOA9_467761	U052413.D
Vinyl chloride	ug/L	1.0	U	0.20	1.0	1.0	1	05/24/24 16:49	VOA9_467761	U052413.D

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Form 2

System Monitoring Compound Recovery

Volatiles by EPA Volatiles Organics by Method 8260C

Workorder

HS24051300

Client

Bhate Environmental Associates, Inc.

Project

LHAAP Site 50

06/22/2024

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 50

Workorder **HS24051300**

Volatiles by EPA Volatiles Organics by Method 8260C

RUNID VOA9-467761

50WW16_052024

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	HS24051300-01	Groundwater	05/24/24 17:32	%REC	1
Instrument ID	VOA9				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	U052415.D	57	50	115		81-118
4-Bromofluorobenzene	U052415.D	54	50	109		85-114
Dibromofluoromethane	U052415.D	55	50	110		80-119
Toluene-d8	U052415.D	57	50	114		89-112

50WW18_052024

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	HS24051300-02	Groundwater	05/24/24 17:53	%REC	1
Instrument ID	VOA9				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	U052416.D	59	50	119		81-118
4-Bromofluorobenzene	U052416.D	57	50	114		85-114
Dibromofluoromethane	U052416.D	56	50	113		80-119
Toluene-d8	U052416.D	59	50	118		89-112

50WW22_052024

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	HS24051300-03	Groundwater	05/24/24 18:15	%REC	1
Instrument ID	VOA9				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	U052417.D	59	50	118		81-118
4-Bromofluorobenzene	U052417.D	55	50	109		85-114
Dibromofluoromethane	U052417.D	56	50	112		80-119
Toluene-d8	U052417.D	58	50	115		89-112

Form 2 - System Monitoring Compound Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP Site 50

Workorder **HS24051300**

Volatiles by EPA Volatiles Organics by Method 8260C

RUNID VOA9-467761

50WW13_052124

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	HS24051300-06	Groundwater	05/24/24 19:44	%REC	5
Instrument ID	VOA9				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	U052421.D	280	250	114		81-118
4-Bromofluorobenzene	U052421.D	270	250	108		85-114
Dibromofluoromethane	U052421.D	270	250	107		80-119
Toluene-d8	U052421.D	280	250	110		89-112

Trip Blank_052124

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	HS24051300-10	Water	05/24/24 16:49	%REC	1
Instrument ID	VOA9				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	U052413.D	60	50	120		81-118
4-Bromofluorobenzene	U052413.D	57	50	114		85-114
Dibromofluoromethane	U052413.D	57	50	115		80-119
Toluene-d8	U052413.D	60	50	119		89-112

VBLKW-240524

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	VBLKW-240524	Aqueous	05/24/24 14:18	%REC	1
Instrument ID	VOA9				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	U052406.D	57.86	50	116		81-118
4-Bromofluorobenzene	U052406.D	55.8	50	112		85-114
Dibromofluoromethane	U052406.D	54.71	50	109		80-119
Toluene-d8	U052406.D	55.64	50	111		89-112

Form 2 - System Monitoring Compound Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP Site 50

Workorder HS24051300

Volatiles by EPA Volatiles Organics by Method 8260C

RUNID VOA9-467761

VLCSDW-240524

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	VLCSDW-240524	Aqueous	05/24/24 13:35	%REC	1
Instrument ID	VOA9				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	U052404.D	56.48	50	113		81-118
4-Bromofluorobenzene	U052404.D	56.91	50	114		85-114
Dibromofluoromethane	U052404.D	56.62	50	113		80-119
Toluene-d8	U052404.D	55.89	50	112		89-112

VLCSW-240524

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	VLCSW-240524	Aqueous	05/24/24 13:13	%REC	1
Instrument ID	VOA9				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	U052403.D	55.24	50	110		81-118
4-Bromofluorobenzene	U052403.D	56.96	50	114		85-114
Dibromofluoromethane	U052403.D	55.22	50	110		80-119
Toluene-d8	U052403.D	55.42	50	111		89-112

VSTD050

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	VSTD050	Aqueous	05/24/24 12:52	%REC	1
Instrument ID	VOA9				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	U052402.D	55.81	50	112		80-120
4-Bromofluorobenzene	U052402.D	59.11	50	118		80-120
Dibromofluoromethane	U052402.D	56.14	50	112		80-120
Toluene-d8	U052402.D	59.33	50	119		80-120

Form 2 - System Monitoring Compound Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP Site 50

Workorder **HS24051300**

Volatiles by EPA Volatiles Organics by Method 8260C

RUNID VOA9-468007

50WW15_052024

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	HS24051300-04	Groundwater	05/30/24 07:31	%REC	1
Instrument ID	VOA9				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	W052813.D	58	50	116		81-118
4-Bromofluorobenzene	W052813.D	54	50	108		85-114
Dibromofluoromethane	W052813.D	56	50	112		80-119
Toluene-d8	W052813.D	56	50	111		89-112

50WW14_052124

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	HS24051300-05	Groundwater	05/30/24 07:52	%REC	1
Instrument ID	VOA9				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	W052814.D	59	50	118		81-118
4-Bromofluorobenzene	W052814.D	55	50	109		85-114
Dibromofluoromethane	W052814.D	58	50	116		80-119
Toluene-d8	W052814.D	56	50	111		89-112

50WW11_052124

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	HS24051300-07	Groundwater	05/30/24 08:13	%REC	1
Instrument ID	VOA9				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	W052815.D	59	50	118		81-118
4-Bromofluorobenzene	W052815.D	54	50	109		85-114
Dibromofluoromethane	W052815.D	57	50	114		80-119
Toluene-d8	W052815.D	55	50	111		89-112

Form 2 - System Monitoring Compound Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP Site 50

Workorder **HS24051300**

Volatiles by EPA Volatiles Organics by Method 8260C

RUNID VOA9-468007

50WW05_052124

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	HS24051300-08	Groundwater	05/30/24 08:35	%REC	1
Instrument ID	VOA9				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	W052816.D	59	50	118		81-118
4-Bromofluorobenzene	W052816.D	54	50	107		85-114
Dibromofluoromethane	W052816.D	58	50	116		80-119
Toluene-d8	W052816.D	56	50	112		89-112

50WW29_052124

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	HS24051300-09	Groundwater	05/30/24 08:56	%REC	1
Instrument ID	VOA9				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	W052817.D	59	50	118		81-118
4-Bromofluorobenzene	W052817.D	56	50	111		85-114
Dibromofluoromethane	W052817.D	58	50	116		80-119
Toluene-d8	W052817.D	55	50	111		89-112

BatchQC

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	HS24051490-03MS	Aqueous	05/30/24 05:59	%REC	1
Instrument ID	VOA9				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	W052809.D	57.99	50	116		81-118
4-Bromofluorobenzene	W052809.D	56.47	50	113		85-114
Dibromofluoromethane	W052809.D	59.03	50	118		80-119
Toluene-d8	W052809.D	56.63	50	113		89-112

Form 2 - System Monitoring Compound Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP Site 50

Workorder HS24051300

Volatiles by EPA Volatiles Organics by Method 8260C

RUNID VOA9-468007

BatchQC

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	HS24051490-03MSD	Aqueous	05/30/24 06:21	%REC	1
Instrument ID	VOA9				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	W052810.D	57.17	50	114		81-118
4-Bromofluorobenzene	W052810.D	56.42	50	113		85-114
Dibromofluoromethane	W052810.D	57.9	50	116		80-119
Toluene-d8	W052810.D	57.32	50	115		89-112

VBLKW-240529

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	VBLKW-240529	Aqueous	05/30/24 04:55	%REC	1
Instrument ID	VOA9				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	W052806.D	58.25	50	117		81-118
4-Bromofluorobenzene	W052806.D	54.55	50	109		85-114
Dibromofluoromethane	W052806.D	56.36	50	113		80-119
Toluene-d8	W052806.D	55.78	50	112		89-112

VLCSW-240529

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	VLCSW-240529	Aqueous	05/30/24 03:50	%REC	1
Instrument ID	VOA9				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	W052803.D	58.95	50	118		81-118
4-Bromofluorobenzene	W052803.D	55.58	50	111		85-114
Dibromofluoromethane	W052803.D	58.13	50	116		80-119
Toluene-d8	W052803.D	55.54	50	111		89-112

Form 2 - System Monitoring Compound Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP Site 50

Workorder HS24051300

Volatiles by EPA Volatiles Organics by Method 8260C

RUNID VOA9-468007

VSTD050

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	VSTD050	Aqueous	05/30/24 03:28	%REC	1
Instrument ID	VOA9				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	W052802.D	57	50	114		80-120
4-Bromofluorobenzene	W052802.D	58.99	50	118		80-120
Dibromofluoromethane	W052802.D	58.12	50	116		80-120
Toluene-d8	W052802.D	58.1	50	116		80-120

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Form 3A

Matrix Spike/Spike Duplicate Recovery

Volatiles by EPA Volatiles Organics by Method 8260C

Workorder

HS24051300

Client

Bhate Environmental Associates, Inc.

Project

LHAAP Site 50

06/22/2024

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 50

Workorder **HS24051300**

SAMPLENUM HS24051490-03MS

Volatiles by EPA Volatiles Organics by Method 8260C

BatchQC (HS24051490-03)			HS24051490-03MS		HS24051490-03MSD	
Spike Matrix Aqueous	Result Units ug/L		Run Date 05/30/24		Run Date 05/30/24	
Instrument ID VOA9			Run Time 05:59		Run Time 06:21	
			Data File W052809.D		Data File W052810.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-Dichloroethene	71-131	1	0	19.0815	20	95		18.5580	20	93		20	2.78	
1,2-Dichloroethane	73-128	1	0	19.6925	20	98		19.2988	20	96		20	2.02	
cis-1,2-Dichloroethene	78-123	1	0	16.8166	20	84		16.7791	20	84		20	0.223	
Tetrachloroethene	74-129	1	0	19.2407	20	96		19.1544	20	96		20	0.45	
Trichloroethene	79-123	1	0	18.0153	20	90		17.9481	20	90		20	0.374	
Vinyl chloride	58-137	1	0	20.0110	20	100		19.6844	20	98		20	1.65	

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 Volatiles Organics by Method 8260C

Workorder

HS24051300

Client

Bhate Environmental Associates, Inc.

Project

LHAAP Site 50

06/22/2024

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www.alsglobal.com

Form 3B - Laboratory Control Sample Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP Site 50

Workorder
HS24051300

SAMPLENUM
VLCSW-240524

Volatiles by EPA Volatiles Organics by Method 8260C

VOA9_467761			VLCSW-240524			VLCSDW-240524					
Spike Matrix Aqueous	Result Units ug/L		Run Date 05/24/24 Run Time 13:13			Run Date 05/24/24 Run Time 13:35					
Analyte	%Recovery Limits	Spike Added	LCS Result	%R	Q	LCSD Result	%R	Q	RPD Limit	RPD	Q
1,1-Dichloroethene	71-131	20	17.06	85		16.77	84		20	1.74	
1,2-Dichloroethane	73-128	20	19.33	97		19.25	96		20	0.446	
cis-1,2-Dichloroethene	78-123	20	17.33	87		16.98	85		20	2.02	
Tetrachloroethene	74-129	20	18.98	95		17.84	89		20	6.23	
Trichloroethene	79-123	20	18.06	90		17.15	86		20	5.17	
Vinyl chloride	58-137	20	17.63	88		17.4	87		20	1.3	

Form 3B - Laboratory Control Sample Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP Site 50

Workorder HS24051300

SAMPLENUM VLCSW-240529

Volatiles by EPA Volatiles Organics by Method 8260C

VOA9_468007			VLCSW-240529				
Spike Matrix Aqueous	Result Units ug/L		Run Date 05/30/24 Run Time 03:50				
Analyte	%Recovery Limits	Spike Added	LCS Result	%R	Q		
1,1-Dichloroethene	71-131	20	18.5	92.5			
1,2-Dichloroethane	73-128	20	19.96	99.8			
cis-1,2-Dichloroethene	78-123	20	17.09	85.4			
Tetrachloroethene	74-129	20	18.99	95.0			
Trichloroethene	79-123	20	17.9	89.5			
Vinyl chloride	58-137	20	19.53	97.7			

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Form 4

Method Blank Summary

Volatiles by EPA Volatiles Organics by Method 8260C

Workorder

HS24051300

Client

Bhate Environmental Associates, Inc.

Project

LHAAP Site 50

06/22/2024

ALS Environmental–Houston Laboratory
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www.alsglobal.com

Form 4 - Method Blank Summary

Client Bhate Environmental Associates, Inc.

Project LHAAP Site 50

Workorder HS24051300

Volatiles by EPA Volatiles Organics by Method 8260C

METHOD BLANK	Matrix	Analysis Date	Analysis Batch	Inst ID
VBLKW-240524	Aqueous	05/24/24 14:18	R467761	VOA9

Client Sample ID	Lab Sample ID	Type	Analysis Date	Analysis Batch	Inst ID	FileID
VLCSW-240524	VLCSW-240524	LCS	05/24/24 13:13	R467761	VOA9	U052403.D
VLCSDW-240524	VLCSDW-240524	LCSD	05/24/24 13:35	R467761	VOA9	U052404.D
Trip Blank_052124	HS24051300-10	SAMP	05/24/24 16:49	R467761	VOA9	U052413.D
50WW16_052024	HS24051300-01	SAMP	05/24/24 17:32	R467761	VOA9	U052415.D
50WW18_052024	HS24051300-02	SAMP	05/24/24 17:53	R467761	VOA9	U052416.D
50WW22_052024	HS24051300-03	SAMP	05/24/24 18:15	R467761	VOA9	U052417.D
50WW13_052124	HS24051300-06	SAMP	05/24/24 19:44	R467761	VOA9	U052421.D

Form 4 - Method Blank Summary

Client Bhate Environmental Associates, Inc.

Project LHAAP Site 50

Workorder HS24051300

Volatiles by EPA Volatiles Organics by Method 8260C

METHOD BLANK	Matrix	Analysis Date	Analysis Batch	Inst ID
VBLKW-240529	Aqueous	05/30/24 04:55	R468007	VOA9

Client Sample ID	Lab Sample ID	Type	Analysis Date	Analysis Batch	Inst ID	FileID
VLCSW-240529	VLCSW-240529	LCS	05/30/24 03:50	R468007	VOA9	W052803.D
BatchQC	HS24051490-03MS	MS	05/30/24 05:59	R468007	VOA9	W052809.D
BatchQC	HS24051490-03MSD	MSD	05/30/24 06:21	R468007	VOA9	W052810.D
50WW15_052024	HS24051300-04	SAMP	05/30/24 07:31	R468007	VOA9	W052813.D
50WW14_052124	HS24051300-05	SAMP	05/30/24 07:52	R468007	VOA9	W052814.D
50WW11_052124	HS24051300-07	SAMP	05/30/24 08:13	R468007	VOA9	W052815.D
50WW05_052124	HS24051300-08	SAMP	05/30/24 08:35	R468007	VOA9	W052816.D
50WW29_052124	HS24051300-09	SAMP	05/30/24 08:56	R468007	VOA9	W052817.D

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Form 5

Instrument Performance Check

Volatiles by EPA Volatiles Organics by Method 8260C

Workorder

HS24051300

Client

Bhate Environmental Associates, Inc.

Project

LHAAP Site 50

06/22/2024

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
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www.alsglobal.com

FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: V9

Lab File ID: U052901 BFB Injection Date: 05/29/24

Instrument ID: VOA9 BFB Injection Time: 1017

GC Column: DB624 ID: 0.25 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	17.3
75	30.0 - 60.0% of mass 95	46.9
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.9
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	Greater than 50.0% of mass 95	93.6
175	5.0 - 9.0% of mass 174	7.8 (8.3)1
176	95.0 - 101.0% of mass 174	90.8 (97.1)1
177	5.0 - 9.0% of mass 176	6.0 (6.6)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD00.25	VSTD00.25	U052902	05/29/24	1039
02	VSTD00.5	VSTD00.5	U052903	05/29/24	1100
03	VSTD001	VSTD001	U052904	05/29/24	1122
04	VSTD002	VSTD002	U052905	05/29/24	1143
05	VSTD005	VSTD005	U052906	05/29/24	1205
06	VSTD020	VSTD020	U052907	05/29/24	1226
07	VSTD050	VSTD050	U052908	05/29/24	1248
08	VSTD100	VSTD100	U052909	05/29/24	1310
09	VSTD150	VSTD150	U052910	05/29/24	1331
10	VSTD200	VSTD200	U052911	05/29/24	1353
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: V9

Lab File ID: U052913 BFB Injection Date: 05/29/24

Instrument ID: VOA9 BFB Injection Time: 1436

GC Column: DB624 ID: 0.25 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	18.3
75	30.0 - 60.0% of mass 95	47.1
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.9
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	Greater than 50.0% of mass 95	87.4
175	5.0 - 9.0% of mass 174	7.3 (8.4)1
176	95.0 - 101.0% of mass 174	84.7 (96.9)1
177	5.0 - 9.0% of mass 176	5.8 (6.9)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD050	VSTD050	U052914	05/29/24	1458
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

01332784

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: V9

Lab File ID: V052201 BFB Injection Date: 05/22/24

Instrument ID: VOA9 BFB Injection Time: 2001

GC Column: DB624 ID: 0.25 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	18.3
75	30.0 - 60.0% of mass 95	47.4
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.6
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	Greater than 50.0% of mass 95	93.9
175	5.0 - 9.0% of mass 174	8.3 (8.8)1
176	95.0 - 101.0% of mass 174	92.6 (98.7)1
177	5.0 - 9.0% of mass 176	5.9 (6.4)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD00.25	VSTD00.25	V052202	05/22/24	2022
02	VSTD00.5	VSTD00.5	V052203	05/22/24	2044
03	VSTD001	VSTD001	V052204	05/22/24	2105
04	VSTD002	VSTD002	V052205	05/22/24	2127
05	VSTD005	VSTD005	V052206	05/22/24	2148
06	VSTD020	VSTD020	V052207	05/22/24	2210
07	VSTD050	VSTD050	V052208	05/22/24	2231
08	VSTD100	VSTD100	V052209	05/22/24	2253
09	VSTD150	VSTD150	V052210	05/22/24	2314
10	VSTD200	VSTD200	V052211	05/22/24	2336
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

FORM V VOA

FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: V9

Lab File ID: V052213 BFB Injection Date: 05/23/24

Instrument ID: VOA9 BFB Injection Time: 0019

GC Column: DB624 ID: 0.25 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	19.1
75	30.0 - 60.0% of mass 95	49.1
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.9
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	Greater than 50.0% of mass 95	82.0
175	5.0 - 9.0% of mass 174	7.3 (8.9)1
176	95.0 - 101.0% of mass 174	80.4 (98.0)1
177	5.0 - 9.0% of mass 176	5.7 (7.1)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD050	VSTD050	V052214	05/23/24	0040
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

Form 5 - Instrument Performance Check

Client Bhate Environmental Associates, Inc.

Project LHAAP Site 50

Workorder **HS24051300**

Volatiles by EPA Volatiles Organics by Method 8260C

RUNID VOA9-467761

Tune File U052401.D 05/24/24 5/24/2024

m / e	Ion Abundance Criterion	%RA
50	15.0 - 40.0% of mass 95	18.3 (18.3)
75	30.0 - 60.0% of mass 95	46.9 (46.9)
95	Base peak, 100% RA	100 (100)
96	5.0 - 9.0% of mass 95	6.5 (6.46)
173	Less than 2.0% of mass 174	0 (0) 1
174	greater than 50.0% of mass 95	88.8 (88.8) 1
175	5.0 - 9.0% of mass 174	7.7 (8.7) 1
176	> 95% but < 101% of mass 174	87.3 (98.3) 1
177	5.0 - 9.0% of mass 176	5.9 (6.81) 2

%RA - Percent Relative Abundance

This check applies to the following analyses

	Lab Samp ID	Type	Date Analyzed	Lab File ID	Sample ID
1	VSTD050	CCV	5/24/2024	U052402	VSTD050
2	VLCSW-	LCS	5/24/2024	U052403	VLCSW-240524
3	VLCSDW-	LCSD	5/24/2024	U052404	VLCSDW-240524
4	VBLKW-	MBLK	5/24/2024	U052406	VBLKW-240524
5	HS24051300-	SAMP	5/24/2024	U052413	Trip Blank_052124
6	HS24051300-	SAMP	5/24/2024	U052415	50WW16_052024
7	HS24051300-	SAMP	5/24/2024	U052416	50WW18_052024
8	HS24051300-	SAMP	5/24/2024	U052417	50WW22_052024
9	HS24051300-	SAMP	5/24/2024	U052421	50WW13_052124
10	VSTD050	CCV_EN	5/24/2024	U052429	VSTD050

Form 5 - Instrument Performance Check

Client Bhate Environmental Associates, Inc.

Project LHAAP Site 50

Workorder **HS24051300**

Volatiles by EPA Volatiles Organics by Method 8260C

RUNID VOA9-468007

Tune File W052801.D 05/30/24 5/30/2024

m / e	Ion Abundance Criterion	%RA
50	15.0 - 40.0% of mass 95	19.6 (19.6)
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	7.6 (7.63)
173	Less than 2.0% of mass 174	0 (0) 1
174	greater than 50.0% of mass 95	83 (83) 1
175	5.0 - 9.0% of mass 174	7.3 (8.79) 1
176	> 95% but < 101% of mass 174	79.8 (96.2) 1
177	5.0 - 9.0% of mass 176	5.4 (6.8) 2

%RA - Percent Relative Abundance

This check applies to the following analyses

	Lab Samp ID	Type	Date Analyzed	Lab File ID	Sample ID
1	VSTD050	CCV	5/30/2024	W052802	VSTD050
2	VLCSW-	LCS	5/30/2024	W052803	VLCSW-240529
3	VBLKW-	MBLK	5/30/2024	W052806	VBLKW-240529
4	HS24051490-	MS	5/30/2024	W052809	ZZZZZZMS
5	HS24051490-	MSD	5/30/2024	W052810	ZZZZZZMSD
6	HS24051300-	SAMP	5/30/2024	W052813	50WW15_052024
7	HS24051300-	SAMP	5/30/2024	W052814	50WW14_052124
8	HS24051300-	SAMP	5/30/2024	W052815	50WW11_052124
9	HS24051300-	SAMP	5/30/2024	W052816	50WW05_052124
10	HS24051300-	SAMP	5/30/2024	W052817	50WW29_052124
11	CCV	CCV_EN	5/30/2024	W052818	CCV

Report Date : 07-Jun-2024 09:12 Page 1

ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 29-MAY-2024 10:39
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Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa9.i\U240531.b\8260C.m
Last Edit : 07-Jun-2024 09:02 r.patel

Calibration File Names:
Level 1: \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052902.D
Level 2: \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052903.D
Level 3: \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052904.D
Level 4: \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052905.D
Level 5: \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052906.D
Level 6: \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052907.D
Level 7: \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052908.D
Level 8: \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052909.D
Level 9: \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052910.D
Level 10: \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052911.D

Compound	0.2500000 Level 1 / 50.0000 Level 7	0.5000000 Level 2 / 100.0000 Level 8	1.0000 Level 3 / 150.0000 Level 9	2.0000 Level 4 / 200.0000 Level 10	5.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
2 Dichlorodifluoromethane	+++++ / 0.18930	0.13303 / 0.19965	0.14942 / 0.21073	0.19171 / 0.21952	0.20212	0.18209	AVRG		0.18640		15.15313
3 Chloromethane	+++++ / 187210	6413 / 362966	8687 / 564726	12469 / 716916	21844	75709	LINR	-0.01460	0.65713		0.99971
4 Propionitrile	+++++ / 161164	1595 / 312519	4715 / 508916	9364 / +++++	17004	64665	QUAD	-0.15111	19.31982	-1.48298	0.99987

ALS Laboratory Group

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5 Vinyl Chloride	+++++	0.31834	0.38026	0.40826	0.37239	0.36186					
	0.35983	0.38068	0.40301	0.41353			AVRG		0.37757		7.83185
6 Bromomethane	+++++	1786	2361	3722	6167	21249					
	48410	88847	+++++	+++++			LINR	-0.04057	0.15858		0.99966
7 Chloroethane	+++++	1090	2279	3382	8259	30548					
	75481	148667	238484	317922			QUAD	-0.00648	3.91983	-0.41583	0.99992
8 Trichlorofluoromethane	+++++	0.31063	0.38253	0.46400	0.48215	0.44355					
	0.45832	0.47620	0.50214	0.51589			AVRG		0.44838		14.33257
9 Acrolein	+++++	367	625	772	1464	3686					
	10580	19417	33211	45520			QUAD	-0.06918	61.69189	-80.69988	0.99925
10 Acetone	+++++	2671	4580	6842	11049	34500					
	82879	158455	258229	309961			QUAD	-0.03625	6.71638	0.19369	0.99772
11 1,1-Dichloroethene	+++++	0.29220	0.34260	0.35646	0.33383	0.31043					
	0.31030	0.32400	0.34282	0.35383			AVRG		0.32961		6.64761

ALS Laboratory Group

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Compound	0.2500000 Level 1	0.5000000 Level 2	1.0000 Level 3	2.0000 Level 4	5.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
	50.0000 Level 7	100.0000 Level 8	150.0000 Level 9	200.0000 Level 10								
12 Isobutyl Alcohol	+++++	2723	8488	15290	29987	129741						
	318836	634410	1019170	1572359			QUAD	-0.35860	20.24047	-1.08009	0.99969	
13 Acetonitrile	+++++	0.02899	0.04817	0.04356	0.04061	0.03842						
	0.03864	0.04079	0.04257	0.04328			AVRG		0.04056		12.94972	
14 Allyl Chloride	+++++	2724	8034	14793	29273	113638						
	277594	552669	885047	1175804			QUAD	-0.00482	1.05310	-0.02903	0.99989	
15 Iodomethane	+++++	772	1102	1323	2162	7857						
	23240	+++++	+++++	+++++			QUAD	-0.08181	36.37439	-131	0.99983	<-
16 Acrylonitrile	+++++	973	2714	4999	8324	33195						
	79503	154935	251557	334027			QUAD	-0.02498	7.50995	-0.79006	0.99981	
17 Methylene Chloride	+++++	3188	4998	7689	13562	47173						
	111343	213527	334515	442243			QUAD	-0.02777	2.71449	-0.14016	0.99997	
18 Methyl tert-butyl ether	+++++	2663	7839	14737	28791	111071						
	265805	517202	834255	1108713			QUAD	-0.01056	1.12179	-0.03344	0.99986	

Report Date : 07-Jun-2024 09:12 Page 4

ALS Laboratory Group

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19 Carbon Disulfide	+++++	0.91229	0.94804	0.95577	0.85995	0.84293					
	0.87973	0.92558	0.98079	1.01655			AVRG		0.92463		6.18301
20 trans-1,2-Dichloroethene	+++++	0.37061	0.40903	0.43390	0.36267	0.34445					
	0.34249	0.35005	0.36525	0.37595			AVRG		0.37271		8.19295
21 Vinyl Acetate	+++++	0.21061	0.28071	0.22093	0.16746	0.21287					
	0.21812	0.21590	0.22362	0.23289			AVRG		0.22034		13.21623
22 1,1-Dichloroethane	+++++	0.75128	0.93697	0.81993	0.65628	0.63440					
	0.63515	0.64516	0.67344	0.69132			AVRG		0.71599		14.40292
23 Chloroprene	+++++	0.43361	0.49133	0.56453	0.52423	0.50462					
	0.51624	0.54030	0.57050	0.57975			AVRG		0.52501		8.73969
24 2-Butanone	+++++	0.22032	0.29335	0.25523	0.18866	0.19285					
	0.20394	0.21007	0.22170	0.22489			AVRG		0.22344		14.68818
25 Methacrylonitrile	+++++	638	1920	3297	6036	26774					
	64217	134993	208472	294600			QUAD	-0.00542	4.58251	-0.79478	0.99978

Report Date : 07-Jun-2024 09:12 Page 5

ALS Laboratory Group

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Compound	0.2500000 Level 1 / 50.0000 Level 7	0.5000000 Level 2 / 100.0000 Level 8	1.0000 Level 3 / 150.0000 Level 9	2.0000 Level 4 / 200.0000 Level 10	5.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
26 2,2-Dichloropropane	+++++	0.42724	0.43832	0.49077	0.43639	0.43003					
	0.45997	0.48616	0.52119	0.53941			AVRG		0.46994		8.83489
27 cis-1,2-Dichloroethene	+++++	0.48622	0.54677	0.53469	0.41904	0.41836					
	0.41961	0.42526	0.43912	0.45372			AVRG		0.46031		11.00258
28 Chloroform	+++++	0.71777	0.84701	0.86193	0.65656	0.64839					
	0.65581	0.65894	0.68314	0.70452			AVRG		0.71490		11.56076
29 Bromochloromethane	+++++	704	1768	3171	6036	25140					
	59781	113406	178579	234915			LINR	0.00550	0.21304		0.99960
31 1,1,1-Trichloroethane	+++++	0.42088	0.39892	0.52218	0.47253	0.48041					
	0.50420	0.53582	0.57606	0.59479			AVRG		0.50064		13.05518
32 1,1-Dichloropropene	+++++	0.38898	0.35081	0.36657	0.35665	0.32223					
	0.34299	0.35647	0.38320	0.39139			AVRG		0.36214		6.31921
33 1,2-Dichloroethane	+++++	1765	4481	8149	15306	61258					
	149897	287619	449209	601098			LINR	0.01199	0.37658		0.99943

ALS Laboratory Group

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Compound	0.2500000 Level 1 / 50.0000 Level 7	0.5000000 Level 2 / 100.0000 Level 8	1.0000 Level 3 / 150.0000 Level 9	2.0000 Level 4 / 200.0000 Level 10	5.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
34 Carbon Tetrachloride	+++++	0.28747	0.23686	0.24727	0.26052	0.24382					
	0.27888	0.30788	0.33996	0.35051			AVRG		0.28369		14.69311
37 Benzene	+++++	1.35152	1.35135	1.35786	1.08821	1.05427					
	1.06572	1.06520	1.12030	1.14485			AVRG		1.17770		11.45667
38 Trichloroethene	+++++	0.28032	0.31554	0.31681	0.27389	0.26521					
	0.27613	0.27972	0.29757	0.30357			AVRG		0.28986		6.54373
39 Bromodichloromethane	+++++	0.27293	0.33666	0.33156	0.26547	0.29078					
	0.31283	0.32676	0.35023	0.36350			AVRG		0.31675		10.74188
40 Methyl Methacrylate	+++++	511	1060	3031	4802	18720					
	48081	100414	167428	224325			QUAD	0.00631	5.90256	-1.30510	0.99947
41 2-Chloroethylvinyl ether	+++++	505	1330	2568	5106	28955					
	81655	179421	309450	444756			QUAD	0.06521	9.75884	-2.44897	0.99933
42 1,2-Dichloropropane	+++++	0.34676	0.35990	0.37577	0.27333	0.27539					
	0.28045	0.28090	0.29807	0.30492			AVRG		0.31061		12.77398

ALS Laboratory Group

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Compound	0.2500000 Level 1	0.5000000 Level 2	1.0000 Level 3	2.0000 Level 4	5.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	50.0000 Level 7	100.0000 Level 8	150.0000 Level 9	200.0000 Level 10							
43 2-Nitropropane	+++++	164	456	922	1819	7738					
	22745	50838	89884	122639			QUAD	0.03571	11.72054	-6.66363	0.99836
44 Dibromomethane	+++++	0.16727	0.22837	0.20593	0.15791	0.16363					
	0.16910	0.17146	0.17778	0.18190			AVRG		0.18037		12.59524
45 4-Methyl-2-Pentanone	+++++	2006	6605	11033	21975	95933					
	249783	496657	794722	1077867			QUAD	0.00798	3.03215	-0.11576	0.99994
46 cis-1,3-Dichloropropene	+++++	1376	3129	6163	13035	62650					
	171538	349144	565316	770716			QUAD	0.01651	2.42687	-0.20124	0.99981
49 Ethyl Methacrylate	+++++	0.30708	0.46783	0.42709	0.34555	0.34110					
	0.35617	0.38285	0.41927	0.43387			AVRG		0.38676		13.72954
50 Toluene	+++++	1.69288	1.61800	1.55178	1.17812	1.20105					
	1.20749	1.21554	1.26838	1.28193			AVRG		1.35724		14.98795
51 trans-1,3-Dichloropropene	+++++	919	2284	4599	9852	49938					
	138911	288024	471401	644492			QUAD	0.02242	2.95276	-0.32272	0.99971

ALS Laboratory Group

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52 2-Hexanone	+++++	1203	4192	6895	12848	58293					
	156001	326398	541778	725984			QUAD	0.03342	4.62722	-0.33633	0.99944
53 1,1,2-Trichloroethane	+++++	894	2548	4925	8641	36741					
	88934	172371	269298	360962			QUAD	-0.00780	4.28542	-0.25329	0.99997
54 1,3-Dichloropropane	+++++	0.53420	0.68504	0.65636	0.49071	0.50919					
	0.51660	0.51477	0.52833	0.54038			AVRG		0.55284		12.43787
55 Dibromochloromethane	+++++	788	1952	3797	7567	39282					
	106831	219518	353909	481854			QUAD	0.01807	3.44826	-0.34347	0.99984
56 Tetrachloroethene	+++++	0.22468	0.20096	0.25521	0.22637	0.23051					
	0.23475	0.24326	0.25812	0.25952			AVRG		0.23704		8.07931
57 1,2-Dibromoethane	+++++	0.27994	0.34774	0.33384	0.25808	0.27729					
	0.29096	0.28921	0.30301	0.30625			AVRG		0.29848		9.42066
58 1-Chlorohexane	+++++	4455	4740	6859	11209	32677					
	80903	168663	289826	389857			QUAD	-0.02291	5.16485	-1.15033	0.99882

ALS Laboratory Group

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59 Chlorobenzene	+++++ / 0.78708	0.91065 / 0.78424	1.02221 / 0.81876	1.03793 / 0.82885	0.78537	0.78062	AVRG		0.86175		12.03900	
60 1,1,1,2-Tetrachloroethane	+++++ / 0.27758	0.23039 / 0.28568	0.27723 / 0.30258	0.29466 / 0.30760	0.23537	0.26386	AVRG		0.27499		9.97539	
61 Ethylbenzene	+++++ / 147348	2343 / 289334	3630 / 473626	7387 / 633308	14250	57981	QUAD	-0.00097	2.57843	-0.16882	0.99975	
62 m,p-Xylenes	+++++ / 376184	10673 / 741524	13484 / 1202813	22381 / 1591481	39064	153153	QUAD	-0.02007	2.00683	-0.04254	0.99972	
63 o-Xylene	+++++ / 182488	3953 / 356834	5882 / 578662	10205 / 767838	17958	74682	LINR	0.01613	0.52538		0.99915	
64 Styrene	+++++ / 0.81897	0.78067 / 0.83597	0.85269 / 0.87600	0.89561 / 0.89207	0.70454	0.79183	AVRG		0.82759		7.46368	
65 cis-1,4-Dichloro-2-butene	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-

ALS Laboratory Group

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	50.0000 Level 7	100.0000 Level 8	150.0000 Level 9	200.0000 Level 10							
66 Bromoform	+++++	424	1114	2167	4403	22868					
	68173	145408	242102	335082			QUAD	0.03030	5.29646	-1.10154	0.99951
67 Isopropylbenzene	+++++	1.11873	1.02368	1.29388	1.09160	1.14829					
	1.19815	1.23035	1.31552	1.32061			AVRG		1.19342		8.85576
68 1,1,2,2-Tetrachloroethane	+++++	0.79223	1.05849	0.99882	0.75573	0.75739					
	0.76801	0.76648	0.77525	0.80760			AVRG		0.83111		13.73758
71 1,2,3-Trichloropropane	+++++	0.59641	0.85075	0.94990	0.67279	0.69958					
	0.76161	0.78691	0.81902	0.87724			AVRG		0.77936		14.12141
72 trans-1,4-Dichloro-2-butene	+++++	0.07939	0.09446	0.09701	0.06596	0.07305					
	0.08157	0.08825	0.08876	0.10040			AVRG		0.08543		13.36403
73 n-Propylbenzene	+++++	3.17639	2.48766	2.87316	2.35433	2.51268					
	2.61428	2.67893	2.74099	2.81223			AVRG		2.69452		9.07546
74 Bromobenzene	+++++	0.68090	0.78492	0.82901	0.62744	0.63099					
	0.64971	0.63121	0.66597	0.68768			AVRG		0.68754		10.46560

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75 1,3,5-Trimethylbenzene	+++++	8297	10157	18636	34885	146220					
	361104	721154	1177381	1562083			QUAD	-0.00635	0.56396	-0.00847	0.99987
76 2-Chlorotoluene	+++++	5091	8525	16959	31374	128707					
	315078	613649	992742	1326171			QUAD	-0.01113	0.66165	-0.01106	0.99991
77 4-Chlorotoluene	+++++	2.07502	1.96880	2.24259	1.74124	1.81605					
	1.83407	1.84260	1.92052	1.97114			AVRG		1.93467		7.90878
78 tert-Butylbenzene	+++++	1.38716	1.15836	1.61671	1.38738	1.50126					
	1.54490	1.57974	1.72515	1.71466			AVRG		1.51281		11.90371
79 1,2,4-Trimethylbenzene	+++++	22634	22742	30038	43795	154144					
	370379	733468	1177305	1562562			QUAD	-0.03863	0.56639	-0.00825	0.99991
80 Pentachloroethane	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000
81 sec-Butylbenzene	+++++	1.95971	1.53179	2.15211	1.83827	2.01639					
	2.09538	2.16878	2.35348	2.36267			AVRG		2.05318		12.64246

ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 29-MAY-2024 10:39
End Cal Date : 29-MAY-2024 13:53
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa9.i\U240531.b\8260C.m
Last Edit : 07-Jun-2024 09:02 r.patel

Compound	0.2500000 Level 1 / 50.0000 Level 7	0.5000000 Level 2 / 100.0000 Level 8	1.0000 Level 3 / 150.0000 Level 9	2.0000 Level 4 / 200.0000 Level 10	5.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
82 p-Isopropyltoluene	+++++	1.69530	1.35834	1.87751	1.56188	1.73918						
	1.83665	1.89887	2.05631	2.07868			AVRG		1.78919		12.89527	
83 1,3-Dichlorobenzene	+++++	1.20972	1.23044	1.37911	1.03167	1.07656						
	1.09876	1.10157	1.14530	1.17630			AVRG		1.16105		8.95650	
84 1,4-Dichlorobenzene	+++++	1.47215	1.46121	1.56818	1.17445	1.14991						
	1.15575	1.15719	1.20782	1.22554			AVRG		1.28580		12.87550	
85 bis(2-Chloro-isopropyl)ether	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	<-
86 Benzyl Chloride	+++++	2950	4616	7262	12197	47617						
	138884	315330	539443	763055			QUAD	0.02327	2.51645	-0.30363	0.99893	
87 n-Butylbenzene	+++++	6464	7427	14661	28223	121510						
	312016	641821	1065723	1416365			QUAD	0.00444	0.63769	-0.01283	0.99971	
88 1,2-Dichlorobenzene	+++++	1.29571	1.41440	1.43005	1.08630	1.10145						
	1.09643	1.09704	1.13793	1.16713			AVRG		1.20294		11.64085	

ALS Laboratory Group

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Last Edit : 07-Jun-2024 09:02 r.patel

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89 1,2-Dibromo-3-Chloropropane	+++++	128	485	786	1716	6942					
	20853	43093	72928	101593			QUAD	0.01657	9.75914	-4.16378	0.99969
90 1,2,4-Trichlorobenzene	+++++	0.71072	0.74863	0.88616	0.62940	0.70252					
	0.73323	0.76145	0.81529	0.83432			AVRG		0.75797		10.22986
91 Hexachlorobutadiene	+++++	0.33200	0.26055	0.33657	0.26420	0.28467					
	0.27888	0.29560	0.33945	0.34514			AVRG		0.30412		11.23611
92 Naphthalene	+++++	7391	11206	19031	32575	140782					
	365632	733059	1179542	1590132			QUAD	-0.00408	0.56192	-0.00904	0.99995
93 1,2,3-Trichlorobenzene	+++++	0.66500	0.69907	0.83256	0.61164	0.66915					
	0.68198	0.69832	0.73642	0.76088			AVRG		0.70611		9.03810
130 Ethyl Acetate	+++++	0.43026	0.57763	0.52848	0.39835	0.42892					
	0.43624	0.43180	0.44724	0.46577			AVRG		0.46052		12.31489
131 Methyl Acrylate	+++++	1262	3957	7361	13966	52347					
	131096	259299	426664	566657			QUAD	-0.00447	2.24925	-0.15801	0.99971

ALS Laboratory Group

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132 n-Butanol	+++++	0.01175	0.01513	0.01494	0.01202	0.01109					
	0.01204	0.01348	0.01502	0.01576			AVRG		0.01347		13.21525
133 Ethyl Acrylate	+++++	1801	5916	9698	23229	94734					
	249751	512252	834322	1129810			QUAD	0.00957	1.15612	-0.04698	0.99983
134 Cyclohexanone	+++++	969	2910	6019	11414	42427					
	104997	221511	367899	459191			QUAD	0.21161	35.22118	-0.86577	0.99858
135 1,4-Dioxane	538	700	1066	1835	3681	12564					
	28576	56513	95387	124297			QUAD	-0.34629	205	-66.69702	0.99920
136 n-Hexane	+++++	1203	1300	3412	9230	36389					
	91764	189432	315804	415342			QUAD	0.01229	3.06226	-0.30297	0.99937
137 n-Pentane	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000
138 Freon TF	+++++	683	1010	2974	7685	30656					
	78742	158195	258556	345384			QUAD	0.00840	3.68306	-0.42555	0.99980

ALS Laboratory Group

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Last Edit : 07-Jun-2024 09:02 r.patel

Compound	0.2500000 Level 1	0.5000000 Level 2	1.0000 Level 3	2.0000 Level 4	5.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	50.0000 Level 7	100.0000 Level 8	150.0000 Level 9	200.0000 Level 10							
146 Methyl Acetate	+++++	1181	3707	6657	11748	45615					
	112240	212417	330134	440647			LINR	0.00517	0.39776		0.99948
147 Methylcyclohexane	+++++	1801	5794	9698	23229	94734					
	249751	512252	834322	1129810			QUAD	0.01150	1.65506	-0.09354	0.99975
149 Isopropyl alcohol	+++++	1852	4800	9638	17652	63121					
	157210	314658	520251	+++++			QUAD	-0.34137	39.65866	-3.84749	0.99994
152 Amyl alcohol	+++++	468	1733	3250	7303	29249					
	77196	167778	285246	393449			QUAD	0.37441	92.55002	-18.10291	0.99935
150 Allyl alcohol	+++++	1203	1300	3412	9230	36389					
	91764	189432	315804	415342			QUAD	0.24576	61.24528	-6.05945	0.99937
151 4-Methyl-2-pentanol	+++++	5007	14569	29478	63851	254940					
	647574	1368113	2335055	3204773			QUAD	0.24823	12.57753	-0.34866	0.99934
148 Tert-butyl alcohol	+++++	2390	6404	12205	24373	82537					
	200951	398358	659260	+++++			QUAD	-0.43226	31.21599	-2.33858	0.99989

ALS Laboratory Group

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139 Diethyl ether	+++++	846	2295	4189	8354	31782					
	75842	146534	240834	323193			QUAD	-0.01340	3.99670	-0.51795	0.99978
140 1,3-Butadiene	+++++	0.14778	0.18377	0.18637	0.19524	0.18035					
	0.17971	0.18574	0.19886	0.20716			AVRG		0.18500		9.01927
141 Cyclohexane	+++++	6283	6773	9727	17154	54972					
	132365	266868	441425	587963			QUAD	-0.02644	2.24179	-0.17768	0.99958
142 Tetrahydrofuran	+++++	723	1587	2424	5039	17078					
	41576	81311	130444	+++++			QUAD	-0.04414	14.84610	-3.98222	0.99994
143 1-Chlorobutane	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000
144 Nitrobenzene	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000
145 alpha-Methylstyrene	+++++	1085	2613	6078	11677	56994					
	150603	307618	503336	677516			QUAD	0.01141	1.33167	-0.05530	0.99989

ALS Laboratory Group

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Last Edit : 07-Jun-2024 09:02 r.patel

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153 Tetraethyl lead	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	
154 2,3-Dichlorobutane	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	
155 2-Pentanone	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	
156 Diisopropyl ether	+++++	1.19059	1.60666	1.48307	1.22536	1.17650	AVRG		1.27664		12.43573	
	1.14230	1.17838	1.23504	1.25185								
157 n-Heptane	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
158 Dichlorofluoromethane	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
159 Propylene oxide	+++++	+++++	+++++	1149	1607	6665	QUAD	-0.02486	36.32301	-17.49531	0.99980	
	16421	32032	51620	68450								

ALS Laboratory Group

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160 2-Methylnaphthalene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	
161 3-Methyl-1-butanol	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	<-
162 Butyl acrylate	+++++	1363	4624	8351	17657	72944						
	186832	408695	710720	999143			QUAD	0.01659	1.91968	-0.17561	0.99927	
163 Butyl methacrylate	+++++	0.60586	0.52186	0.57595	0.52208	0.54056						
	0.52950	0.57499	0.64418	0.69199			AVRG		0.57855		10.26081	
164 Dicyclopentadiene	+++++	2.86527	3.02354	2.48602	2.43154	2.26888						
	2.37884	2.43479	2.56355	2.62783			AVRG		2.56447		9.42852	
165 4-Vinyl-1-cyclohexene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	
166 1,2,3-Trimethylbenzene	+++++	6866	11411	17012	35395	132826						
	333316	651618	1039375	1391506			LINR	0.01481	1.76937		0.99908	

ALS Laboratory Group

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167 Ethanol	+++++	339	850	1764	3681	12109					
	29366	59044	97976	+++++			QUAD	-0.41167	212	-113	0.99990
168 1-Propanol	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000
170 1,3,5-Trichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000
172 tert-Butyl formate	+++++	0.33040	0.48374	0.46032	0.38402	0.35150					
	0.36425	0.39046	+++++	+++++			AVRG		0.39496		14.35743
173 3,3-Dimethyl-1-butanol	+++++	0.02661	0.04039	0.04248	0.03564	0.03092					
	0.03181	0.03329	0.03727	+++++			AVRG		0.03480		14.98766
174 tert-Amyl methyl ether	+++++	1.00997	1.43039	1.32549	1.11262	1.08450					
	1.03837	1.13730	1.16972	1.22109			AVRG		1.16994		11.67266
175 tert-Butyl ethyl ether	+++++	0.94697	1.48758	1.32750	1.09049	1.04844					
	1.03360	1.05841	1.12760	1.17146			AVRG		1.14356		14.60205

ALS Laboratory Group

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176 tert-Amyl alcohol	+++++	0.03304	0.04837	0.04603	0.03840	0.03515						
	0.03642	0.03905	0.04317	+++++			AVRG		0.03996		13.53625	
177 Dimethyl ether	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	<-
178 Ethylene oxide	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	
179 Hexachloroethane	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	<-
180 1-Methylnaphthalene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	
181 2-Furfural	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	
182 Epichlorohydrin	+++++	323	718	1272	2221	10404						
	29367	61001	103901	+++++			QUAD	0.02457	60.62931	-55.52048	0.99980	

Report Date : 07-Jun-2024 09:12 Page 21

ALS Laboratory Group

INITIAL CALIBRATION DATA

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End Cal Date : 29-MAY-2024 13:53
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183 2-Methylpropane(1)	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	
(2)	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
184 Cyclopentane	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	
185 Isoprene	+++++	81.00000	375	950	2012	8609						
	22038	45875	73860	98636			QUAD	0.01301	12.77332	-4.91218	0.99977	
186 Isopentane	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	
187 n-Amyl acetate	+++++	0.44806	0.60235	0.57948	0.50185	0.49612						
	0.51110	0.54084	0.58705	0.61928			AVRG		0.54290		10.60908	
188 Isopropyl acetate	+++++	+++++	1.00124	0.92402	0.74732	0.76500						
	0.76539	0.78986	0.84119	0.80293			AVRG		0.82962		10.76824	<-

ALS Laboratory Group

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189 n-Butyl acetate	+++++	0.43327	0.62965	0.56777	0.43192	0.46769						
	0.49841	0.52972	0.56976	0.59596			AVRG		0.52491		13.62368	
190 Propanal	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	
191 n-Buteraldehyde	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	
192 Isobuteraldehyde	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	
193 2-Ethyl-1-hexanol	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	<-
194 Acetaldehyde	+++++	1640	3248	4005	8362	37005						
	97166	187809	305993	417509			QUAD	-0.01475	12.58076	-1.38019	0.99990	
195 Methyl Amyl Ketone	+++++	0.44573	0.68116	0.69063	0.55526	0.54143						
	0.55898	0.60937	0.69341	0.70587			AVRG		0.60909		14.79795	

ALS Laboratory Group

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Compound	0.2500000 Level 1 / 50.0000 Level 7	0.5000000 Level 2 / 100.0000 Level 8	1.0000 Level 3 / 150.0000 Level 9	2.0000 Level 4 / 200.0000 Level 10	5.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
196 2-Methylpentane	#####	#####	#####	#####	#####	#####	AVRG		0.000e+000		0.000e+000	
197 3-Methylpentane	#####	#####	#####	#####	#####	#####	AVRG		0.000e+000		0.000e+000	
198 Methylcyclopentane	#####	#####	#####	#####	#####	#####	AVRG		0.000e+000		0.000e+000	
199 1-Hexene	#####	#####	#####	#####	#####	#####	AVRG		0.000e+000		0.000e+000	
200 Dimethyl Disulfide	#####	248	895	1744	3903	20022	QUAD	0.09981	3.80589	-0.91403	0.99215	
	68045	196799	406307	618005								
201 1-Butene(1)	#####	#####	#####	#####	#####	#####	AVRG		0.000e+000		0.000e+000	
(2)	#####	#####	#####	#####	#####	#####	AVRG		0.000e+000		0.000e+000	<-

ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 29-MAY-2024 10:39
End Cal Date : 29-MAY-2024 13:53
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa9.i\U240531.b\8260C.m
Last Edit : 07-Jun-2024 09:02 r.patel

Compound	0.2500000 Level 1 / 50.0000 Level 7	0.5000000 Level 2 / 100.0000 Level 8	1.0000 Level 3 / 150.0000 Level 9	2.0000 Level 4 / 200.0000 Level 10	5.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
202 Isobutylene	+++++	1036	1518	1892	5256	17507					
	43949	91262	140148	201782			QUAD	-0.01526	6.90463	-1.95784	0.99968
203 2-Ethylhexyl Acrylate	+++++	644	2167	3471	8052	37971					
	121736	271079	460688	+++++			QUAD	0.02697	1.66196	-0.16515	0.99923
M 94 1,2-Dichloroethylene (total)	+++++	0.42842	0.47790	0.48429	0.39085	0.38140					
	0.38105	0.38765	0.40219	0.41484			AVRG		0.41651		9.56374
M 95 Xylenes (total)	+++++	14626	19366	32586	57022	227835					
	558672	1098358	1781475	2359319			QUAD	-0.02661	2.27708	-0.04606	0.99970
$ 30 Dibromofluoromethane	+++++	1637	2993	5220	9474	36896					
	91670	177686	285257	379603			QUAD	-0.01108	3.27132	-0.28058	0.99990
$ 35 1,2-Dichloroethane-d4	+++++	2042	4136	6748	11774	44846					
	104957	204529	321896	430320			LINR	0.00862	0.38761		0.99906
$ 48 Toluene-d8	+++++	7327	12775	20610	36100	142140					
	337359	670353	1052895	1400146			LINR	0.00410	0.95736		0.99965

Report Date : 07-Jun-2024 09:12 Page 25

ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 29-MAY-2024 10:39
End Cal Date : 29-MAY-2024 13:53
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa9.i\U240531.b\8260C.m
Last Edit : 07-Jun-2024 09:02 r.patel

Compound	0.2500000 Level 1	0.5000000 Level 2	1.0000 Level 3	2.0000 Level 4	5.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	50.0000 Level 7	100.0000 Level 8	150.0000 Level 9	200.0000 Level 10							
$ 69 4-Bromofluorobenzene	+++++ 124362	3574 241554	5245 383258	8164 508465	14171	52184	LINR	-0.00197	0.34704		0.99957

Report Date : 07-Jun-2024 09:12 Page 26

ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 29-MAY-2024 10:39
End Cal Date : 29-MAY-2024 13:53
Quant Method : ISTD
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Last Edit : 07-Jun-2024 09:02 r.patel

Curve	Formula	Units
Averaged	Amt = Rsp/m1	Response
Linear	Amt = b + Rsp/m1	Response
Quad	Amt = b + m1*Rsp + m2*Rsp^2	Response

Report Date : 03-Jun-2024 14:27 Page 1

ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 22-MAY-2024 20:22
End Cal Date : 22-MAY-2024 23:36
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa9.i\U240524.b\8260CC.m
Last Edit : 28-May-2024 11:48 VOA9.i

Calibration File Names:
Level 1: \\NAHSTWS005\Target\chem\voa9.i\U240523.b\V052202.D
Level 2: \\NAHSTWS005\Target\chem\voa9.i\U240523.b\V052203.D
Level 3: \\NAHSTWS005\Target\chem\voa9.i\U240523.b\V052204.D
Level 4: \\NAHSTWS005\Target\chem\voa9.i\U240523.b\V052205.D
Level 5: \\NAHSTWS005\Target\chem\voa9.i\U240523.b\V052206.D
Level 6: \\NAHSTWS005\Target\chem\voa9.i\U240523.b\V052207.D
Level 7: \\NAHSTWS005\Target\chem\voa9.i\U240523.b\V052208.D
Level 8: \\NAHSTWS005\Target\chem\voa9.i\U240523.b\V052209.D
Level 9: \\NAHSTWS005\Target\chem\voa9.i\U240523.b\V052210.D
Level 10: \\NAHSTWS005\Target\chem\voa9.i\U240523.b\V052211.D

Compound	0.2500000 Level 1 / 50.0000 Level 7	0.5000000 Level 2 / 100.0000 Level 8	1.0000 Level 3 / 150.0000 Level 9	2.0000 Level 4 / 200.0000 Level 10	5.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
2 Dichlorodifluoromethane	+++++ / 0.24949	0.31991 / 0.25524	0.21803 / 0.27526	0.29269 / 0.26172	0.25771	0.27072	AVRG		0.26675		10.68353
3 Chloromethane	+++++ / 201352	9635 / 415448	11392 / 607310	18240 / 777289	27986	92896	QUAD	-0.02121	1.04282	0.08038	0.99827
4 Propionitrile	+++++ / 125590	1689 / 247974	3786 / 419530	8325 / +++++	13197	53459	QUAD	-0.32703	21.95366	-2.57677	0.99854

ALS Laboratory Group

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End Cal Date : 22-MAY-2024 23:36
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Last Edit : 28-May-2024 11:48 VOA9.i

Compound	0.2500000 Level 1 / 50.0000 Level 7	0.5000000 Level 2 / 100.0000 Level 8	1.0000 Level 3 / 150.0000 Level 9	2.0000 Level 4 / 200.0000 Level 10	5.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
5 Vinyl Chloride	+++++	0.54952	0.44021	0.51521	0.42477	0.44229					
	0.40339	0.41965	0.44806	0.43222			AVRG		0.45281		10.55946
6 Bromomethane	+++++	1387	1774	3105	4737	14446					
	32231	65774	+++++	+++++			QUAD	-0.04623	7.57113	0.17672	0.99979
7 Chloroethane	+++++	0.37107	0.37081	0.38283	0.30283	0.31196					
	0.27198	0.28133	0.29331	0.28697			AVRG		0.31923		13.60761
8 Trichlorofluoromethane	+++++	0.58607	0.45068	0.56760	0.50245	0.53917					
	0.48008	0.49485	0.52582	0.50461			AVRG		0.51681		8.24237
9 Acrolein	+++++	256	475	725	1345	3650					
	9239	16522	26414	34482			QUAD	-0.06873	54.45388	29.71659	0.99750
10 Acetone	+++++	2401	2810	4226	9344	29961					
	74341	142776	195395	261791			LINR	-0.14839	0.13112		0.99618
11 1,1-Dichloroethene	+++++	0.34356	0.33850	0.38053	0.29614	0.30709					
	0.27261	0.28726	0.30795	0.29838			AVRG		0.31467		10.64232

Report Date : 03-Jun-2024 14:27 Page 3

ALS Laboratory Group

INITIAL CALIBRATION DATA

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Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa9.i\U240524.b\8260CC.m
Last Edit : 28-May-2024 11:48 VOA9.i

Compound	0.2500000 Level 1 / 50.0000 Level 7	0.5000000 Level 2 / 100.0000 Level 8	1.0000 Level 3 / 150.0000 Level 9	2.0000 Level 4 / 200.0000 Level 10	5.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
12 Isobutyl Alcohol	+++++	3376	5996	14294	23835	100941						
	249577	519730	863241	1273928			QUAD	-0.13682	20.08330	-0.83542	0.99949	
13 Acetonitrile	+++++	0.04519	0.05138	0.04988	0.03573	0.03773						
	0.03672	0.03592	0.04053	0.03858			AVRG		0.04130		14.62819	
14 Allyl Chloride	+++++	3162	5992	12724	23141	88098						
	214149	428574	707694	947838			QUAD	-0.00543	1.11989	-0.01736	0.99797	
15 Iodomethane	+++++	972	1167	1618	2870	8911						
	25516	74208	163796	+++++			QUAD	0.02633	17.48095	-12.83781	0.99676	<-
16 Acrylonitrile	+++++	887	2044	4082	6737	26132						
	61198	120448	200354	266324			QUAD	-0.02411	7.91315	-0.38320	0.99754	
17 Methylene Chloride	+++++	3393	4514	7451	12092	38922						
	83846	174302	267122	364439			QUAD	-0.03669	2.82402	-0.02375	0.99938	
18 Methyl tert-butyl ether	+++++	2576	5966	12924	21791	83654						
	203281	403076	666277	899435			QUAD	-0.00834	1.19671	-0.02313	0.99815	

Report Date : 03-Jun-2024 14:27 Page 4

ALS Laboratory Group

INITIAL CALIBRATION DATA

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Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa9.i\U240524.b\8260CC.m
Last Edit : 28-May-2024 11:48 VOA9.i

Compound	0.2500000 Level 1 / 50.0000 Level 7	0.5000000 Level 2 / 100.0000 Level 8	1.0000 Level 3 / 150.0000 Level 9	2.0000 Level 4 / 200.0000 Level 10	5.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
19 Carbon Disulfide	+++++	1.12096	0.92647	1.08898	0.83484	0.91452					
	0.86355	0.89946	0.97603	0.94626			AVRG		0.95234		10.11876
20 trans-1,2-Dichloroethene	+++++	0.43901	0.40136	0.44139	0.32935	0.33984					
	0.31139	0.31833	0.33770	0.32741			AVRG		0.36064		14.40072
21 Vinyl Acetate	+++++	1730	2690	5865	9530	40971					
	96737	197614	323159	430445			QUAD	-0.00517	4.84090	-0.11902	0.99796
22 1,1-Dichloroethane	+++++	2200	3832	8759	15610	61717					
	141547	296135	459660	632104			QUAD	-0.00792	1.65034	-0.02116	0.99944
23 Chloroprene	+++++	0.63293	0.56723	0.66506	0.51987	0.52956					
	0.48925	0.50955	0.53642	0.51122			AVRG		0.55123		10.87360
24 2-Butanone	+++++	1551	2158	5940	9381	38584					
	96203	197983	309540	411704			QUAD	0.00762	4.73426	0.07641	0.99871
25 Methacrylonitrile	+++++	666	1456	3544	4723	20676					
	54977	114272	183139	250943			QUAD	0.00584	4.28276	-0.29109	0.99895

Report Date : 03-Jun-2024 14:27 Page 5

ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 22-MAY-2024 20:22
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Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa9.i\U240524.b\8260CC.m
Last Edit : 28-May-2024 11:48 VOA9.i

Compound	0.2500000 Level 1 / 50.0000 Level 7	0.5000000 Level 2 / 100.0000 Level 8	1.0000 Level 3 / 150.0000 Level 9	2.0000 Level 4 / 200.0000 Level 10	5.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
26 2,2-Dichloropropane	+++++	0.53533	0.40245	0.52107	0.35986	0.41803					
	0.39626	0.42573	0.46242	0.44876			AVRG		0.44110		13.08689
27 cis-1,2-Dichloroethene	+++++	0.49233	0.51354	0.54177	0.38687	0.41151					
	0.37275	0.38004	0.40384	0.39210			AVRG		0.43275		14.92771
28 Chloroform	+++++	2029	3810	8888	15738	63122					
	146139	305959	474746	645327			QUAD	-0.00387	1.57488	-0.00578	0.99926
29 Bromochloromethane	+++++	572	1171	2688	4773	18597					
	43607	90371	137705	188513			QUAD	-0.00614	5.32172	0.05265	0.99960
31 1,1,1-Trichloroethane	+++++	0.50136	0.45832	0.55767	0.45700	0.50683					
	0.48419	0.50113	0.54336	0.52554			AVRG		0.50393		6.87573
32 1,1-Dichloropropene	+++++	0.46417	0.30682	0.41934	0.31966	0.33763					
	0.31835	0.32909	0.35023	0.33263			AVRG		0.35310		14.99712
33 1,2-Dichloroethane	+++++	1661	3006	7453	12613	50147					
	116826	238700	371348	502406			QUAD	-0.00340	2.84887	0.06040	0.99919

ALS Laboratory Group

INITIAL CALIBRATION DATA

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Last Edit : 28-May-2024 11:48 VOA9.i

Compound	0.2500000 Level 1 / 50.0000 Level 7	0.5000000 Level 2 / 100.0000 Level 8	1.0000 Level 3 / 150.0000 Level 9	2.0000 Level 4 / 200.0000 Level 10	5.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
34 Carbon Tetrachloride	+++++	0.32346	0.28046	0.29351	0.23724	0.27410					
	0.26725	0.28956	0.31281	0.30441			AVRG		0.28698		9.07323
37 Benzene	+++++	4963	8834	20260	35983	145783					
	340081	712365	1101756	1506050			QUAD	-0.00066	0.97098	0.00182	0.99940
38 Trichloroethene	+++++	0.32985	0.28576	0.32731	0.25768	0.26445					
	0.25220	0.25153	0.26818	0.25736			AVRG		0.27715		11.16414
39 Bromodichloromethane	+++++	0.29184	0.29636	0.35766	0.24736	0.28752					
	0.29051	0.31021	0.33333	0.32511			AVRG		0.30443		10.44553
40 Methyl Methacrylate	+++++	284	1155	2174	3018	11958					
	29014	61390	109195	141715			QUAD	0.00210	7.97011	-1.87075	0.99470
41 2-Chloroethylvinyl ether	+++++	481	1242	2608	5466	25169					
	68317	152634	262521	365558			QUAD	0.05703	9.50563	-1.59915	0.99787
42 1,2-Dichloropropane	+++++	1434	2470	5897	9626	39815					
	92414	192490	299364	409712			QUAD	-0.00292	3.60409	-0.00525	0.99937

ALS Laboratory Group

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Compound	0.2500000 Level 1 / 50.0000 Level 7	0.5000000 Level 2 / 100.0000 Level 8	1.0000 Level 3 / 150.0000 Level 9	2.0000 Level 4 / 200.0000 Level 10	5.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
43 2-Nitropropane	+++++	138	621	954	1500	6840					
	17807	39659	73483	+++++			QUAD	-0.01174	15.03490	-16.93857	0.99980
44 Dibromomethane	+++++	0.17957	0.19713	0.22026	0.15910	0.16438					
	0.15702	0.15441	0.16332	0.15652			AVRG		0.17241		13.11348
45 4-Methyl-2-Pentanone	+++++	0.38464	0.36698	0.41042	0.28516	0.32110					
	0.31831	0.32250	0.35623	0.33873			AVRG		0.34490		11.16857
46 cis-1,3-Dichloropropene	+++++	0.32985	0.29386	0.37770	0.26241	0.33254					
	0.35355	0.38241	0.41975	0.40813			AVRG		0.35113		14.79718
49 Ethyl Methacrylate	+++++	0.36176	0.40104	0.43882	0.30360	0.33361					
	0.34389	0.34593	0.40333	0.38777			AVRG		0.36886		11.41267
50 Toluene	+++++	1.57761	1.26054	1.56456	1.13423	1.22157					
	1.14725	1.13754	1.18523	1.14413			AVRG		1.26363		14.19878
51 trans-1,3-Dichloropropene	+++++	806	1359	3854	7333	36762					
	97757	223156	365940	509892			QUAD	0.02981	3.24540	-0.28591	0.99858

ALS Laboratory Group

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52 2-Hexanone	+++++	0.28685	0.23695	0.26588	0.18799	0.20353					
	0.20910	0.21734	0.24045	0.23053			AVRG		0.23096		13.46066
53 1,1,2-Trichloroethane	+++++	940	1635	4383	7348	29346					
	66596	137987	214887	291834			QUAD	-0.00722	4.52639	0.11264	0.99957
54 1,3-Dichloropropane	+++++	1916	3587	8637	14915	61013					
	144932	297425	469335	637919			QUAD	-0.00321	2.10442	0.00360	0.99948
55 Dibromochloromethane	+++++	0.21022	0.22260	0.25481	0.18328	0.23404					
	0.25382	0.26998	0.29034	0.28637			AVRG		0.24505		14.57533
56 Tetrachloroethene	+++++	0.28246	0.21871	0.28617	0.22156	0.23855					
	0.22270	0.22045	0.23019	0.22317			AVRG		0.23822		11.26635
57 1,2-Dibromoethane	+++++	0.27270	0.26832	0.34503	0.22709	0.25776					
	0.25593	0.25238	0.26870	0.25887			AVRG		0.26742		11.97519
58 1-Chlorohexane	+++++	3782	4226	6784	10145	31204					
	71175	154985	252903	347980			QUAD	-0.02842	4.75748	-0.55426	0.99850

Report Date : 03-Jun-2024 14:27

ALS Laboratory Group

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Compound	0.2500000 Level 1 / 50.0000 Level 7	0.5000000 Level 2 / 100.0000 Level 8	1.0000 Level 3 / 150.0000 Level 9	2.0000 Level 4 / 200.0000 Level 10	5.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
59 Chlorobenzene	+++++	3466	6324	13797	25267	97577						
	224627	465190	727850	999180			QUAD	-0.00922	1.36483	-0.00410	0.99968	
60 1,1,1,2-Tetrachloroethane	+++++	0.26391	0.24984	0.31351	0.21621	0.24835						
	0.25158	0.25808	0.27421	0.27204			AVRG		0.26086		10.00566	
61 Ethylbenzene	+++++	0.47803	0.41310	0.48071	0.36383	0.38317						
	0.37172	0.37212	0.39654	0.38613			AVRG		0.40504		11.01304	
62 m,p-Xylenes	+++++	0.56232	0.47074	0.60287	0.43001	0.48826						
	0.47264	0.47003	0.49747	0.48198			AVRG		0.49737		10.60925	
63 o-Xylene	+++++	0.53986	0.49903	0.57124	0.41951	0.47299						
	0.46680	0.45910	0.48234	0.47067			AVRG		0.48684		9.26076	
64 Styrene	+++++	0.84933	0.81275	0.93273	0.72853	0.81537						
	0.80563	0.80544	0.85149	0.83101			AVRG		0.82581		6.52639	
65 cis-1,4-Dichloro-2-butene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	<-

Report Date : 03-Jun-2024 14:27 Page 10

ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 22-MAY-2024 20:22
End Cal Date : 22-MAY-2024 23:36
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa9.i\U240524.b\8260CC.m
Last Edit : 28-May-2024 11:48 VOA9.i

Compound	0.2500000 Level 1 / 50.0000 Level 7	0.5000000 Level 2 / 100.0000 Level 8	1.0000 Level 3 / 150.0000 Level 9	2.0000 Level 4 / 200.0000 Level 10	5.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
66 Bromoform	+++++	392	721	1952	3641	17174					
	47869	111672	191523	268349			QUAD	0.03290	5.98329	-1.32132	0.99830
67 Isopropylbenzene	+++++	1.35144	1.12825	1.37207	1.05200	1.19183					
	1.16453	1.17325	1.23519	1.19694			AVRG		1.20728		8.40688
68 1,1,2,2-Tetrachloroethane	+++++	1392	3041	6823	11307	47816					
	108865	229364	369458	495269			QUAD	-0.00218	1.48500	-0.01074	0.99885
71 1,2,3-Trichloropropane	+++++	1521	2895	5886	10722	46169					
	110579	238259	395706	536785			QUAD	0.00573	1.46634	-0.04347	0.99860
72 trans-1,4-Dichloro-2-butene	+++++	267	701	1369	2495	9783					
	23825	51909	88907	121414			QUAD	0.00609	12.61870	-4.60883	0.99820
73 n-Propylbenzene	+++++	2.84161	2.39714	2.95962	2.23475	2.56266					
	2.51462	2.53606	2.69092	2.50422			AVRG		2.58240		8.54652
74 Bromobenzene	+++++	0.70834	0.75521	0.85763	0.60176	0.61026					
	0.58527	0.58438	0.61515	0.60043			AVRG		0.65760		14.53970

ALS Laboratory Group

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Last Edit : 28-May-2024 11:48 VOA9.i

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75 1,3,5-Trimethylbenzene	+++++	1.90774	1.60238	1.96049	1.47923	1.77537					
	1.76339	1.80001	1.90137	1.84979			AVRG		1.78220		8.67358
76 2-Chlorotoluene	+++++	1.90203	1.78601	2.11473	1.48464	1.57025					
	1.53078	1.53307	1.59696	1.54138			AVRG		1.67332		12.83996
77 4-Chlorotoluene	+++++	2.08435	1.99411	2.42353	1.64889	1.81623					
	1.77452	1.75859	1.85461	1.79632			AVRG		1.90568		12.23992
78 tert-Butylbenzene	+++++	1.64982	1.48468	1.77112	1.36126	1.57221					
	1.52616	1.52354	1.61709	1.56446			AVRG		1.56337		7.27939
79 1,2,4-Trimethylbenzene	+++++	2.23682	1.75964	2.03294	1.47727	1.74677					
	1.73676	1.76307	1.88067	1.82018			AVRG		1.82824		11.58365
80 Pentachloroethane	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000
81 sec-Butylbenzene	+++++	2.21586	1.77251	2.30514	1.80011	2.08860					
	2.04149	2.09249	2.23163	2.14917			AVRG		2.07744		8.86714

Report Date : 03-Jun-2024 14:27

ALS Laboratory Group

INITIAL CALIBRATION DATA

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82 p-Isopropyltoluene	+++++	1.84930	1.55907	1.97056	1.52775	1.79936						
	1.81614	1.85756	1.97761	1.92173			AVRG		1.80879		9.01960	
83 1,3-Dichlorobenzene	+++++	2161	4451	10178	17996	73922						
	173337	357696	572945	778320			QUAD	-0.00400	0.95700	-0.00627	0.99927	
84 1,4-Dichlorobenzene	+++++	3093	4916	11601	19669	77028						
	180977	370133	591659	800109			QUAD	-0.00802	0.92021	-0.00337	0.99923	
85 bis(2-Chloro-isopropyl)ether	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	<-
86 Benzyl Chloride	+++++	4426	5397	7550	10330	34867						
	89212	210396	376162	544172			QUAD	-0.00352	3.31705	-0.53641	0.99777	
87 n-Butylbenzene	+++++	3735	5689	12812	24166	109317						
	268963	572951	921709	1247444			QUAD	0.00946	0.59880	-0.00318	0.99908	
88 1,2-Dichlorobenzene	+++++	2392	4478	10650	17994	72010						
	173036	351398	559869	765245			QUAD	-0.00682	0.97537	-0.00637	0.99945	

ALS Laboratory Group

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89 1,2-Dibromo-3-Chloropropane	+++++	132	232	632	1114	5037					
	13422	30092	53671	75288			QUAD	0.02354	11.99114	-6.09409	0.99784
90 1,2,4-Trichlorobenzene	+++++	0.88812	0.81861	0.85363	0.59312	0.67590					
	0.68936	0.71029	0.76912	0.75711			AVRG		0.75058		12.48846
91 Hexachlorobutadiene	+++++	739	961	2569	4784	20767					
	49023	104037	168921	231334			QUAD	0.00242	3.34971	-0.17963	0.99919
92 Naphthalene	+++++	1.61742	1.45548	1.75867	1.16526	1.51498					
	1.62015	1.64492	1.81179	1.74094			AVRG		1.59218		12.34726
93 1,2,3-Trichlorobenzene	+++++	0.85064	0.74045	0.83496	0.56373	0.63472					
	0.63618	0.64251	0.70603	0.68105			AVRG		0.69892		13.68024
130 Ethyl Acetate	+++++	1741	2292	6005	9900	40345					
	96737	197614	323159	430445			QUAD	-0.00187	2.42122	-0.06033	0.99797
131 Methyl Acrylate	+++++	1203	2622	6155	9474	41236					
	100487	201900	341037	453745			QUAD	-0.00013	2.37661	-0.10271	0.99726

ALS Laboratory Group

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132 n-Butanol	+++++	0.00987	0.01138	0.01005	0.00726	0.00821					
	0.00842	0.00864	0.01075	0.01017			AVRG		0.00942		14.31547
133 Ethyl Acrylate	+++++	0.76924	0.92603	0.95137	0.80703	0.84926					
	0.85045	0.85585	0.98235	0.94254			AVRG		0.88157		8.17704
134 Cyclohexanone	+++++	937	2342	4862	8573	32764					
	91643	177267	279590	373518			QUAD	0.10245	36.64749	0.99494	0.99907
135 1,4-Dioxane	280	374	700	1210	2038	6932					
	16410	34583	58072	75607			QUAD	-0.17545	280	-61.53994	0.99658
136 n-Hexane	+++++	1310	1628	3911	8824	35519					
	81645	173931	275576	379527			QUAD	-0.00036	2.83398	-0.12287	0.99919
137 n-Pentane	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000
138 Freon TF	+++++	0.50437	0.44326	0.57691	0.54785	0.56555					
	0.52381	0.53115	0.58722	0.56539			AVRG		0.53839		8.27951

ALS Laboratory Group

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146 Methyl Acetate	+++++	1546	3162	6584	11741	40129					
	89430	184062	289604	389125			QUAD	-0.01716	2.60873	-0.01303	0.99880
147 Methylcyclohexane	+++++	0.51551	0.62467	0.63840	0.54424	0.57861					
	0.58893	0.59284	0.67503	0.64406			AVRG		0.60026		8.43958
149 Isopropyl alcohol	+++++	1468	2808	6005	9227	36513					
	91636	182354	317783	+++++			QUAD	-0.61135	61.26130	-11.52686	0.99871
152 Amyl alcohol	+++++	903	1088	2287	4202	17278					
	45025	96345	179902	241673			QUAD	0.30139	135	-36.79710	0.99573
150 Allyl alcohol	+++++	1310	1628	3911	8824	35519					
	81645	173931	275576	379527			QUAD	-0.00713	56.67965	-2.45749	0.99919
151 4-Methyl-2-pentanol	+++++	0.06279	0.07283	0.08250	0.05846	0.07080					
	0.07238	0.07504	0.09124	0.08687			AVRG		0.07477		14.28360
148 Tert-butyl alcohol	+++++	1855	3418	7842	12384	47273					
	110717	224546	393893	+++++			QUAD	-0.75127	50.40812	-8.05303	0.99877

Report Date : 03-Jun-2024 14:27 Page 16

ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 22-MAY-2024 20:22
End Cal Date : 22-MAY-2024 23:36
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Compound	0.2500000 Level 1	0.5000000 Level 2	1.0000 Level 3	2.0000 Level 4	5.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	50.0000 Level 7	100.0000 Level 8	150.0000 Level 9	200.0000 Level 10							
139 Diethyl ether	+++++	778	1531	3327	6208	23422					
	56732	112971	184324	254190			QUAD	-0.01026	4.33934	-0.37300	0.99886
140 1,3-Butadiene	+++++	0.25541	0.15823	0.22064	0.18334	0.20150					
	0.17758	0.18791	0.20041	0.19295			AVRG		0.19755		14.05247
141 Cyclohexane	+++++	5290	6419	9869	16026	56651					
	125569	262264	413887	565382			QUAD	-0.02868	1.89445	-0.04688	0.99906
142 Tetrahydrofuran	+++++	763	1504	2093	3112	14728					
	31799	62998	106261	+++++			QUAD	-0.08541	17.28487	-7.80012	0.99811
143 1-Chlorobutane	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000
144 Nitrobenzene	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000
145 alpha-Methylstyrene	+++++	0.74645	0.68898	0.81229	0.58004	0.68287					
	0.72599	0.74366	0.81025	0.80199			AVRG		0.73250		10.26196

ALS Laboratory Group

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153 Tetraethyl lead	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	
154 2,3-Dichlorobutane	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	
155 2-Pentanone	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	
156 Diisopropyl ether	+++++	3742	7158	16134	28630	111300						
	270843	542852	865221	1170909			QUAD	-0.00564	0.88109	-0.00485	0.99888	
157 n-Heptane	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	<-
158 Dichlorofluoromethane	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	<-
159 Propylene oxide	+++++	+++++	+++++	836	1170	5236						
	12428	24845	38997	52739			QUAD	-0.01401	38.17088	0.15254	0.99883	

ALS Laboratory Group

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160 2-Methylnaphthalene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	
161 3-Methyl-1-butanol	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	<-
162 Butyl acrylate	+++++	0.49821	0.51881	0.62623	0.43251	0.45200						
	0.47736	0.50676	0.61909	0.62840			AVRG		0.52882		14.47924	
163 Butyl methacrylate	+++++	1303	2905	4741	10657	43896						
	101384	184758	327444	474934			QUAD	-0.02643	1.91756	-0.14507	0.99781	
164 Dicyclopentadiene	+++++	6100	10054	19537	39000	147876						
	365706	734991	1228197	1661176			QUAD	-0.00452	0.46732	-0.00364	0.99857	
165 4-Vinyl-1-cyclohexene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	
166 1,2,3-Trimethylbenzene	+++++	1.77179	1.82838	1.91203	1.46436	1.60846						
	1.65970	1.59312	1.74363	1.67594			AVRG		1.69527		7.96412	

ALS Laboratory Group

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167 Ethanol	+++++	322	619	1328	2037	7268					
	17713	34812	60218	+++++			QUAD	-0.81959	320	-302	0.99850
168 1-Propanol	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000
170 1,3,5-Trichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000
172 tert-Butyl formate	+++++	1386	3423	6942	12331	47935					
	98001	245253	+++++	+++++			QUAD	-0.06014	5.21847	-1.15514	0.99744
173 3,3-Dimethyl-1-butanol	+++++	2315	5298	9713	17497	74287					
	172267	356876	652708	+++++			QUAD	-0.56583	41.82438	-5.83276	0.99881
174 tert-Amyl methyl ether	+++++	1.17729	1.27763	1.29990	0.98515	1.03130					
	0.99096	0.97632	1.14344	1.07025			AVRG		1.10580		11.30629
175 tert-Butyl ethyl ether	+++++	1.25168	1.29465	1.35679	0.96614	0.99116					
	0.99568	0.97900	1.09953	1.06894			AVRG		1.11151		13.56608

ALS Laboratory Group

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176 tert-Amyl alcohol	+++++ / 98001	1386 / 245253	3423 / 441582	6942 / +++++	11797	47935	QUAD	-0.46114	50.22947	-9.46081	0.99895	
177 Dimethyl ether	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
178 Ethylene oxide	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	
179 Hexachloroethane	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
180 1-Methylnaphthalene	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	
181 2-Furfural	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	
182 Epichlorohydrin	+++++ / 23006	205 / 48090	539 / 84666	1366 / +++++	2190	9275	QUAD	-0.06908	68.17823	-75.18094	0.99938	

Report Date : 03-Jun-2024 14:27 Page 21

ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 22-MAY-2024 20:22
End Cal Date : 22-MAY-2024 23:36
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183 2-Methylpropane(1)	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	
(2)	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	<-
184 Cyclopentane	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	
185 Isoprene	+++++	0.08772	0.06046	0.08930	0.08812	0.08961						
	0.08324	0.08464	0.09370	0.08815			AVRG		0.08499		11.37748	
186 Isopentane	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	
187 n-Amyl acetate	+++++	1919	3766	9669	15463	63254						
	146447	324241	545320	769469			QUAD	-0.00062	2.07532	-0.14579	0.99907	
188 Isopropyl acetate	+++++	3832	6126	14294	23835	101323						
	246529	520021	858493	1268452			QUAD	-0.00514	1.44921	-0.08245	0.99961	

Report Date : 03-Jun-2024 14:27

ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 22-MAY-2024 20:22
End Cal Date : 22-MAY-2024 23:36
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa9.i\U240524.b\8260CC.m
Last Edit : 28-May-2024 11:48 VOA9.i

Compound	0.2500000 Level 1 / 50.0000 Level 7	0.5000000 Level 2 / 100.0000 Level 8	1.0000 Level 3 / 150.0000 Level 9	2.0000 Level 4 / 200.0000 Level 10	5.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
189 n-Butyl acetate	+++++	0.55808	0.53632	0.61623	0.41527	0.46600						
	0.46274	0.48837	0.55614	0.54053			AVRG		0.51552		12.01421	
190 Propanal	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	
191 n-Buteraldehyde	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	
192 Isobuteraldehyde	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	
193 2-Ethyl-1-hexanol	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	<-
194 Acetaldehyde	+++++	+++++	0.07852	0.08180	0.05955	0.06715						
	0.06362	0.05949	0.06480	0.06424			AVRG		0.06740		12.36397	<-
195 Methyl Amyl Ketone	+++++	0.55646	0.66829	0.74954	0.54128	0.56810						
	0.59875	0.59085	0.68928	0.67988			AVRG		0.62693		11.45992	

Report Date : 03-Jun-2024 14:27 Page 23

ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 22-MAY-2024 20:22
End Cal Date : 22-MAY-2024 23:36
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa9.i\U240524.b\8260CC.m
Last Edit : 28-May-2024 11:48 VOA9.i

Compound	0.2500000 Level 1	0.5000000 Level 2	1.0000 Level 3	2.0000 Level 4	5.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
	50.0000 Level 7	100.0000 Level 8	150.0000 Level 9	200.0000 Level 10								
196 2-Methylpentane	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	
197 3-Methylpentane	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	
198 Methylcyclopentane	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	
199 1-Hexene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	
200 Dimethyl Disulfide	+++++	343	751	1761	3121	15182						
	47587	138053	293895	+++++			QUAD	0.04294	6.02127	-3.06230	0.99729	
201 1-Butene(1)	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	
(2)	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	<-

Report Date : 03-Jun-2024 14:27

ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 22-MAY-2024 20:22
End Cal Date : 22-MAY-2024 23:36
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa9.i\U240524.b\8260CC.m
Last Edit : 28-May-2024 11:48 VOA9.i

Compound	0.2500000 Level 1 / 50.0000 Level 7	0.5000000 Level 2 / 100.0000 Level 8	1.0000 Level 3 / 150.0000 Level 9	2.0000 Level 4 / 200.0000 Level 10	5.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
202 Isobutylene	+++++	164	367	1170	3060	11735					
	28123	59172	97888	133462			QUAD	0.00758	8.28189	-1.52047	0.99837
203 2-Ethylhexyl Acrylate	+++++	680	1428	3034	4851	25358					
	82852	192225	349547	+++++			QUAD	0.02159	2.16954	-0.34376	0.99934
M 94 1,2-Dichloroethylene (total)	+++++	0.46567	0.45745	0.49158	0.35811	0.37568					
	0.34207	0.34919	0.37077	0.35976			AVRG		0.39670		14.55216
M 95 Xylenes (total)	+++++	0.49463	0.43603	0.53054	0.38169	0.43607					
	0.42260	0.42338	0.45371	0.43613			AVRG		0.44609		9.72663
$ 30 Dibromofluoromethane	+++++	1204	2174	4978	8395	33492					
	76667	155928	247969	343699			QUAD	-0.01409	3.16111	-0.16075	0.99927
$ 35 1,2-Dichloroethane-d4	+++++	1807	3401	6849	11168	41399					
	92816	186459	296828	404807			QUAD	-0.02164	2.60719	-0.06848	0.99896
$ 48 Toluene-d8	+++++	5599	8273	17737	32218	123251					
	283574	582672	927386	1284061			QUAD	-0.01370	1.10652	-0.01390	0.99961

Report Date : 03-Jun-2024 14:27 Page 25

ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 22-MAY-2024 20:22
End Cal Date : 22-MAY-2024 23:36
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa9.i\U240524.b\8260CC.m
Last Edit : 28-May-2024 11:48 VOA9.i

Compound	0.2500000 Level 1	0.5000000 Level 2	1.0000 Level 3	2.0000 Level 4	5.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	50.0000 Level 7	100.0000 Level 8	150.0000 Level 9	200.0000 Level 10							
$ 69 4-Bromofluorobenzene	+++++ 106600	2573 213520	3587 343103	7375 472873	12392	46114	QUAD	-0.02034	3.00232	-0.09875	0.99942

Report Date : 03-Jun-2024 14:27 Page 26

ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 22-MAY-2024 20:22
End Cal Date : 22-MAY-2024 23:36
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa9.i\U240524.b\8260CC.m
Last Edit : 28-May-2024 11:48 VOA9.i

Curve	Formula	Units
Averaged	Amt = Rsp/m1	Response
Linear	Amt = b + Rsp/m1	Response
Quad	Amt = b + m1*Rsp + m2*Rsp^2	Response

01332840

right solutions.
right partner.

Form 6I

Initial Calibration Verification (ICV)

Volatiles by EPA Volatiles Organics by Method 8260C

Workorder

HS24051300

Client

Bhate Environmental Associates, Inc.

Project

LHAAP Site 50

06/22/2024

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

Form 6I Initial Calibration Verification (ICV)

Client Bhate Environmental Associates, Inc.
Project LHAAP Site 50

Workorder HS24051300

RunID U052914.D

Volatiles by EPA Volatiles Organics by Method 8260C

Sample Matrix	LIQUID	**Fraction**	VOA
Lab Smp Id	VSTD050	**Client Smp ID**	VSTD050
Data Type	MS DATA	**SampleType**	METHSPIKE
File ID	U052914.D	**Inj Date**	29-MAY-2024 1458

Compound	Conc Added	Conc Recovered	% Recovered	Limits	Q
1,1,1,2-Tetrachloroethane	50.0	49.5	98.9	80-120	
1,1,1-Trichloroethane	50.0	49.7	99.4	80-120	
1,1,2,2-Tetrachloroethane	50.0	45.6	91.2	80-120	
Freon TF	50.0	47.4	94.8	80-120	
Methyl acetate	50.0	48.3	96.5	80-120	
Cyclohexane	50.0	48.3	96.7	80-120	
Methylcyclohexane	50.0	48.2	96.4	80-120	
Carbon Disulfide	100	93.0	93.0	80-120	
2-Hexanone	100	101	101	80-120	
1,1,2-Trichloroethane	50.0	49.0	98.1	80-120	
1,1-Dichloroethane	50.0	43.2	86.4	80-120	
1,1-Dichloroethene	50.0	46.2	92.5	80-120	
1,1-Dichloropropene	50.0	46.5	93.0	80-120	
1,2,3-Trichlorobenzene	50.0	47.5	95.1	80-120	
1,2,3-Trichloropropane	50.0	47.5	95.1	80-120	
1,2,4-Trichlorobenzene	50.0	46.7	93.4	80-120	
1,2,4-Trimethylbenzene	50.0	47.6	95.2	80-120	
1,2-Dibromo-3-Chloropropane	50.0	49.7	99.4	80-120	
1,2-Dibromoethane	50.0	48.0	96.0	80-120	
Acrolein	100	106	106	80-120	
Acrylonitrile	100	101	101	80-120	
1,2-Dichlorobenzene	50.0	44.4	88.7	80-120	
1,2-Dichloroethane	50.0	47.0	94.1	80-120	
1,2-Dichloropropane	50.0	45.1	90.1	80-120	
1,3,5-Trimethylbenzene	50.0	47.8	95.5	80-120	
1,3-Dichlorobenzene	50.0	45.3	90.6	80-120	
1,3-Dichloropropane	50.0	46.4	92.7	80-120	
1,4-Dichlorobenzene	50.0	43.0	86.1	80-120	
1-Chlorohexane	50.0	47.2	94.4	80-120	
2,2-Dichloropropane	50.0	46.0	92.0	80-120	
2-Butanone	100	93.2	93.2	80-120	
2-Chloroethylvinyl ether	100	102	102	80-120	
2-Chlorotoluene	50.0	48.8	97.5	80-120	
4-Chlorotoluene	50.0	45.3	90.6	80-120	

Form 6I Initial Calibration Verification (ICV)

Client Bhate Environmental Associates, Inc.
Project LHAAP Site 50

Workorder HS24051300

RunID U052914.D

Volatiles by EPA Volatiles Organics by Method 8260C

Sample Matrix LIQUID
Lab Smp Id VSTD050
Data Type MS DATA
File ID U052914.D

Fraction VOA
Client Smp ID VSTD050
SampleType METHSPIKE
Inj Date 29-MAY-2024 1458

Compound	Conc Added	Conc Recovered	% Recovered	Limits	Q
p-Isopropyltoluene	50.0	49.6	99.2	80-120	
4-Methyl-2-Pentanone	100	101	101	80-120	
Acetone	100	93.8	93.8	80-120	
Acetonitrile	500	470	93.9	80-120	
Allyl Chloride	50.0	48.8	97.5	80-120	
Benzene	50.0	43.5	87.1	80-120	
Bromobenzene	50.0	44.7	89.5	80-120	
Bromochloromethane	50.0	47.9	95.8	80-120	
Bromodichloromethane	50.0	48.2	96.4	80-120	
Bromoform	50.0	48.2	96.4	80-120	
Bromomethane	50.0	50.9	102	80-120	
Carbon Tetrachloride	50.0	49.6	99.2	80-120	
Chlorobenzene	50.0	44.4	88.8	80-120	
Chloroethane	50.0	50.8	102	80-120	
Chloroform	50.0	44.6	89.2	80-120	
Chloromethane	50.0	46.2	92.3	80-120	
Chloroprene	50.0	48.9	97.7	80-120	
cis-1,2-Dichloroethene	50.0	43.8	87.7	80-120	
cis-1,3-Dichloropropene	50.0	48.2	96.5	80-120	
Dibromochloromethane	50.0	48.7	97.5	80-120	
Dibromomethane	50.0	45.8	91.6	80-120	
Dichlorodifluoromethane	50.0	50.1	100	80-120	
Ethylbenzene	50.0	48.7	97.5	80-120	
Ethyl Methacrylate	50.0	46.7	93.3	80-120	
Iodomethane	100	114	114	80-120	
Isobutyl Alcohol	1000	1029	103	70-130	
Propionitrile	500	509	102	70-130	
Hexachlorobutadiene	50.0	45.4	90.9	80-120	
Isopropylbenzene	50.0	49.5	99.0	80-120	
m,p-Xylenes	100	96.4	96.4	80-120	
Methyl tert-butyl ether	50.0	49.8	99.7	80-120	
Methylene Chloride	50.0	48.8	97.6	80-120	
Methacrylonitrile	50.0	51.1	102	80-120	
Methyl Methacrylate	50.0	49.9	99.8	80-120	

Form 6I Initial Calibration Verification (ICV)

Client Bhate Environmental Associates, Inc.
Project LHAAP Site 50

Workorder HS24051300

RunID U052914.D

Volatiles by EPA Volatiles Organics by Method 8260C

Sample Matrix LIQUID
Lab Smp Id VSTD050
Data Type MS DATA
File ID U052914.D

Fraction VOA
Client Smp ID VSTD050
SampleType METHSPIKE
Inj Date 29-MAY-2024 1458

Compound	Conc Added	Conc Recovered	% Recovered	Limits	Q
n-Butylbenzene	50.0	47.3	94.6	80-120	
n-Propylbenzene	50.0	46.1	92.2	80-120	
Naphthalene	50.0	50.2	100	80-120	
o-Xylene	50.0	46.7	93.4	80-120	
sec-Butylbenzene	50.0	49.1	98.2	80-120	
Styrene	50.0	48.7	97.4	80-120	
tert-Butylbenzene	50.0	49.6	99.2	80-120	
Tetrachloroethene	50.0	48.8	97.6	80-120	
Toluene	50.0	43.6	87.1	80-120	
trans-1,2-Dichloroethene	50.0	44.3	88.7	80-120	
trans-1,3-Dichloropropene	50.0	48.5	97.1	80-120	
trans-1,4-Dichloro-2-butene	50.0	47.5	94.9	80-120	
Trichloroethene	50.0	45.6	91.3	80-120	
Trichlorofluoromethane	50.0	49.8	99.7	80-120	
Vinyl Acetate	100	98.8	98.8	80-120	
Vinyl Chloride	50.0	47.2	94.4	80-120	
Methyl Acrylate	50.0	49.9	99.8	80-120	
Ethyl Acrylate	50.0	48.4	96.9	80-120	
Butyl acrylate	50.0	47.3	94.5	80-120	
2-Ethylhexyl Acrylate	50.0	47.2	94.4	80-120	
Allyl alcohol	1000	930	93.0	80-120	
1,2-Dichloroethylene (total)	100	88.1	88.1	80-120	
Xylenes (total)	150	145	96.6	80-120	
1,4-Dioxane	1000	989	98.9	80-120	
Dibromofluoromethane	50.0	49.4	98.8	71-125	
1,2-Dichloroethane-d4	50.0	46.8	93.7	70-125	
Toluene-d8	50.0	46.8	93.6	75-125	
4-Bromofluorobenzene	50.0	47.3	94.6	72-125	

Form 6I Initial Calibration Verification (ICV)

Client Bhate Environmental Associates, Inc.
Project LHAAP Site 50

Workorder HS24051300

RunID V052214.D

Volatiles by EPA Volatiles Organics by Method 8260C

Sample Matrix	LIQUID	**Fraction**	VOA
Lab Smp Id	VSTD050	**Client Smp ID**	VSTD050
Data Type	MS DATA	**SampleType**	METHSPIKE
File ID	V052214.D	**Inj Date**	23-MAY-2024 0040

Compound	Conc Added	Conc Recovered	% Recovered	Limits	Q
1,1,1,2-Tetrachloroethane	50.0	46.9	93.8	80-120	
1,1,1-Trichloroethane	50.0	45.5	91.0	80-120	
1,1,2,2-Tetrachloroethane	50.0	48.8	97.7	80-120	
Freon TF	50.0	46.5	93.0	80-120	
Methyl acetate	50.0	48.0	96.0	80-120	
Cyclohexane	50.0	46.5	93.1	80-120	
Methylcyclohexane	50.0	47.1	94.2	80-120	
Carbon Disulfide	100	88.7	88.7	80-120	
2-Hexanone	100	87.1	87.2	80-120	
1,1,2-Trichloroethane	50.0	47.5	94.9	80-120	
1,1-Dichloroethane	50.0	46.6	93.3	80-120	
1,1-Dichloroethene	50.0	42.9	85.8	80-120	
1,1-Dichloropropene	50.0	43.8	87.6	80-120	
1,2,3-Trichlorobenzene	50.0	44.5	89.0	80-120	
1,2,3-Trichloropropane	50.0	48.0	96.0	80-120	
1,2,4-Trichlorobenzene	50.0	45.6	91.2	80-120	
1,2,4-Trimethylbenzene	50.0	47.0	93.9	80-120	
1,2-Dibromo-3-Chloropropane	50.0	47.1	94.1	80-120	
1,2-Dibromoethane	50.0	46.3	92.6	80-120	
Acrolein	100	89.0	89.0	80-120	
Acrylonitrile	100	96.6	96.6	80-120	
1,2-Dichlorobenzene	50.0	48.3	96.7	80-120	
1,2-Dichloroethane	50.0	46.3	92.7	80-120	
1,2-Dichloropropane	50.0	45.8	91.7	80-120	
1,3,5-Trimethylbenzene	50.0	48.6	97.2	80-120	
1,3-Dichlorobenzene	50.0	48.0	96.1	80-120	
1,3-Dichloropropane	50.0	48.3	96.5	80-120	
1,4-Dichlorobenzene	50.0	47.6	95.2	80-120	
1-Chlorohexane	50.0	45.3	90.5	80-120	
2,2-Dichloropropane	50.0	42.2	84.3	80-120	
2-Butanone	100	89.9	89.9	80-120	
2-Chloroethylvinyl ether	100	92.8	92.8	80-120	
2-Chlorotoluene	50.0	44.5	89.0	80-120	
4-Chlorotoluene	50.0	45.4	90.7	80-120	

Form 6I Initial Calibration Verification (ICV)

Client Bhate Environmental Associates, Inc.
Project LHAAP Site 50

Workorder HS24051300

RunID V052214.D

Volatiles by EPA Volatiles Organics by Method 8260C

Sample Matrix LIQUID
Lab Smp Id VSTD050
Data Type MS DATA
File ID V052214.D

Fraction VOA
Client Smp ID VSTD050
SampleType METHSPIKE
Inj Date 23-MAY-2024 0040

Compound	Conc Added	Conc Recovered	% Recovered	Limits	Q
p-Isopropyltoluene	50.0	49.0	98.0	80-120	
4-Methyl-2-Pentanone	100	90.3	90.3	80-120	
Acetone	100	89.2	89.2	80-120	
Acetonitrile	500	431	86.2	80-120	
Allyl Chloride	50.0	47.6	95.1	80-120	
Benzene	50.0	46.8	93.6	80-120	
Bromobenzene	50.0	43.5	87.0	80-120	
Bromochloromethane	50.0	48.0	96.1	80-120	
Bromodichloromethane	50.0	46.2	92.4	80-120	
Bromoform	50.0	46.7	93.4	80-120	
Bromomethane	50.0	59.9	120	80-120	
Carbon Tetrachloride	50.0	44.4	88.8	80-120	
Chlorobenzene	50.0	47.3	94.7	80-120	
Chloroethane	50.0	41.0	82.0	80-120	
Chloroform	50.0	46.7	93.4	80-120	
Chloromethane	50.0	40.3	80.7	80-120	
Chloroprene	50.0	42.8	85.7	80-120	
cis-1,2-Dichloroethene	50.0	42.6	85.1	80-120	
cis-1,3-Dichloropropene	50.0	49.0	98.0	80-120	
Dibromochloromethane	50.0	51.1	102	80-120	
Dibromomethane	50.0	42.4	84.8	80-120	
Dichlorodifluoromethane	50.0	43.6	87.1	80-120	
Ethylbenzene	50.0	44.9	89.7	80-120	
Ethyl Methacrylate	50.0	45.4	90.8	80-120	
Iodomethane	100	137	137	80-120	*
Isobutyl Alcohol	1000	976	97.6	70-130	
Propionitrile	500	517	103	70-130	
Hexachlorobutadiene	50.0	45.8	91.6	80-120	
Isopropylbenzene	50.0	46.5	93.0	80-120	
m,p-Xylenes	100	91.6	91.6	80-120	
Methyl tert-butyl ether	50.0	49.1	98.2	80-120	
Methylene Chloride	50.0	47.1	94.3	80-120	
Methacrylonitrile	50.0	47.4	94.8	80-120	
Methyl Methacrylate	50.0	45.1	90.1	80-120	

Form 6I Initial Calibration Verification (ICV)

Client Bhate Environmental Associates, Inc.
Project LHAAP Site 50

Workorder HS24051300

RunID V052214.D

Volatiles by EPA Volatiles Organics by Method 8260C

Sample Matrix LIQUID
Lab Smp Id VSTD050
Data Type MS DATA
File ID V052214.D

Fraction VOA
Client Smp ID VSTD050
SampleType METHSPIKE
Inj Date 23-MAY-2024 0040

Compound	Conc Added	Conc Recovered	% Recovered	Limits	Q
n-Butylbenzene	50.0	46.3	92.6	80-120	
n-Propylbenzene	50.0	47.3	94.7	80-120	
Naphthalene	50.0	49.6	99.2	80-120	
o-Xylene	50.0	45.8	91.7	80-120	
sec-Butylbenzene	50.0	48.6	97.1	80-120	
Styrene	50.0	47.2	94.4	80-120	
tert-Butylbenzene	50.0	47.5	94.9	80-120	
Tetrachloroethene	50.0	43.7	87.4	80-120	
Toluene	50.0	44.1	88.3	80-120	
trans-1,2-Dichloroethene	50.0	41.7	83.4	80-120	
trans-1,3-Dichloropropene	50.0	45.9	91.8	80-120	
trans-1,4-Dichloro-2-butene	50.0	45.6	91.2	80-120	
Trichloroethene	50.0	43.7	87.4	80-120	
Trichlorofluoromethane	50.0	44.3	88.7	80-120	
Vinyl Acetate	100	95.8	95.8	80-120	
Vinyl Chloride	50.0	42.4	84.8	80-120	
Methyl Acrylate	50.0	48.5	97.1	80-120	
Ethyl Acrylate	50.0	46.1	92.2	80-120	
Butyl acrylate	50.0	45.4	90.7	80-120	
2-Ethylhexyl Acrylate	50.0	49.6	99.1	80-120	
Allyl alcohol	1000	886	88.6	80-120	
1,2-Dichloroethylene (total)	100	84.3	84.3	80-120	
Xylenes (total)	150	136	90.5	80-120	
1,4-Dioxane	1000	891	89.1	80-120	
Dibromofluoromethane	50.0	48.2	96.5	71-125	
1,2-Dichloroethane-d4	50.0	47.8	95.5	70-125	
Toluene-d8	50.0	48.9	97.9	75-125	
4-Bromofluorobenzene	50.0	49.6	99.2	72-125	

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Form 7

Continuing Calibration Verification (CCV)

Volatiles by EPA Volatiles Organics by Method 8260C

Workorder

HS24051300

Client

Bhate Environmental Associates, Inc.

Project

LHAAP Site 50

06/22/2024

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

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP Site 50

Workorder HS24051300

RunID U052402.D

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID VOA9.i
Lab File ID U052402A.D
Analysis Type WATER
Lab Sample ID VSTD050

Injection Date 24-MAY-2024 1252
ICAL Date(s) 22-MAY-2024, 22-MAY-2024
ICAL Times 20:22, 23:36
Quant Type ISTD

Compound	RRF / RRF / Conc	RF50 / RF50	CCV RRF50	Min RRF	%D / %D / %DRIFT	Max %D / %D / %DRIFT	Curve CURVE TYPE	Q
Dichlorodifluoromethane	0.267	0.251	0.251	0.100	5.90	20.0	Averaged	
Chloromethane	50.0	44.8	0.827	0.100	10.3	20.0	Quadratic	
Propionitrile	500	527	0.053	0.010	-5.374	20.0	Quadratic	
Vinyl Chloride	0.453	0.392	0.392	0.100	13.4	20.0	Averaged	
Bromomethane	50.0	52.4	0.144	0.100	-4.879	20.0	Quadratic	
Chloroethane	0.319	0.265	0.265	0.100	16.8	20.0	Averaged	
Trichlorofluoromethane	0.517	0.472	0.472	0.100	8.60	20.0	Averaged	
Acrolein	100	89.9	0.017	0.010	10.1	20.0	Quadratic	
Acetone	100	103	0.145	0.100	-2.954	20.0	Linear	
1,1-Dichloroethene	0.315	0.272	0.272	0.100	13.7	20.0	Averaged	
Isobutyl Alcohol	1000	1017	0.053	0.005	-1.724	20.0	Quadratic	
Acetonitrile	0.041	0.033	0.033	0.005	19.2	20.0	Averaged	
Allyl Chloride	50.0	45.4	0.827	0.100	9.16	20.0	Quadratic	
Iodomethane	100	94.2	0.058	0.100	5.80	20.0	Quadratic	*
Acrylonitrile	100	96.3	0.125	0.050	3.75	20.0	Quadratic	
Methylene Chloride	50.0	47.8	0.353	0.100	4.33	20.0	Quadratic	
Methyl tert-butyl ether	50.0	45.5	0.780	0.100	8.91	20.0	Quadratic	
Carbon Disulfide	0.952	0.834	0.834	0.100	12.4	20.0	Averaged	
trans-1,2-Dichloroethene	0.361	0.306	0.306	0.100	15.2	20.0	Averaged	
Vinyl Acetate	100	103	0.216	0.010	-3.077	20.0	Quadratic	
1,1-Dichloroethane	50.0	46.9	0.578	0.200	6.14	20.0	Quadratic	
Chloroprene	0.551	0.482	0.482	0.100	12.6	20.0	Averaged	
2-Butanone	100	101	0.212	0.100	-1.435	20.0	Quadratic	
Methacrylonitrile	50.0	46.8	0.220	0.100	6.45	20.0	Quadratic	
2,2-Dichloropropane	0.441	0.411	0.411	0.100	6.84	20.0	Averaged	
cis-1,2-Dichloroethene	0.433	0.369	0.369	0.100	14.7	20.0	Averaged	
Chloroform	50.0	47.4	0.605	0.200	5.27	20.0	Quadratic	
Bromochloromethane	50.0	49.0	0.185	0.100	1.97	20.0	Quadratic	
30 Dibromofluoromethane	50.0	56.1	0.366	0.100	-12.273	20.0	Quadratic	
1,1,1-Trichloroethane	0.504	0.469	0.469	0.100	6.86	20.0	Averaged	
1,1-Dichloropropene	0.353	0.311	0.311	0.100	11.9	20.0	Averaged	
1,2-Dichloroethane	50.0	47.8	0.334	0.100	4.38	20.0	Quadratic	
Carbon Tetrachloride	0.287	0.263	0.263	0.100	8.38	20.0	Averaged	
35 1,2-Dichloroethane-d4	50.0	55.8	0.442	0.100	-11.629	20.0	Quadratic	

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP Site 50

Workorder HS24051300

RunID U052402.D

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID VOA9.i
Lab File ID U052402A.D
Analysis Type WATER
Lab Sample ID VSTD050

Injection Date 24-MAY-2024 1252
ICAL Date(s) 22-MAY-2024, 22-MAY-2024
ICAL Times 20:22, 23:36
Quant Type ISTD

Compound	RRF / RRF / Conc	RF50 / RF50	CCV RRF50	Min RRF	%D / %D / %DRIFT	Max %D / %D / %DRIFT	Curve CURVE TYPE	Q
Benzene	50.0	47.4	0.976	0.500	5.16	20.0	Quadratic	
Trichloroethene	0.277	0.243	0.243	0.200	12.3	20.0	Averaged	
Bromodichloromethane	0.304	0.283	0.283	0.200	7.04	20.0	Averaged	
Methyl Methacrylate	50.0	49.5	0.128	0.100	0.965	20.0	Quadratic	
2-Chloroethylvinyl ether	100	93.1	0.098	0.001	6.87	20.0	Quadratic	
1,2-Dichloropropane	50.0	47.5	0.265	0.100	4.91	20.0	Quadratic	
2-Nitropropane	50.0	53.3	0.079	0.000	-6.570	20.0	Quadratic	
Dibromomethane	0.172	0.154	0.154	0.100	10.7	20.0	Averaged	
4-Methyl-2-Pentanone	0.345	0.335	0.335	0.100	2.94	20.0	Averaged	
cis-1,3-Dichloropropene	0.351	0.357	0.357	0.200	-1.615	20.0	Averaged	
48 Toluene-d8	50.0	59.3	1.10	0.100	-18.654	20.0	Quadratic	
Ethyl Methacrylate	0.369	0.325	0.325	0.100	12.0	20.0	Averaged	
Toluene	1.26	1.12	1.12	0.400	11.1	20.0	Averaged	
trans-1,3-Dichloropropene	50.0	47.7	0.292	0.100	4.54	20.0	Quadratic	
2-Hexanone	0.231	0.217	0.217	0.100	6.21	20.0	Averaged	
1,1,2-Trichloroethane	50.0	49.0	0.217	0.100	2.09	20.0	Quadratic	
1,3-Dichloropropane	50.0	48.6	0.463	0.100	2.79	20.0	Quadratic	
Dibromochloromethane	0.245	0.246	0.246	0.100	-0.485	20.0	Averaged	
Tetrachloroethene	0.238	0.217	0.217	0.200	8.98	20.0	Averaged	
1,2-Dibromoethane	0.267	0.254	0.254	0.100	4.96	20.0	Averaged	
1-Chlorohexane	50.0	47.2	0.209	0.100	5.63	20.0	Quadratic	
Chlorobenzene	50.0	48.0	0.711	0.500	4.08	20.0	Quadratic	
1,1,1,2-Tetrachloroethane	0.261	0.241	0.241	0.100	7.49	20.0	Averaged	
Ethylbenzene	0.405	0.362	0.362	0.100	10.7	20.0	Averaged	
m,p-Xylenes	0.497	0.460	0.460	0.100	7.61	20.0	Averaged	
o-Xylene	0.487	0.450	0.450	0.300	7.62	20.0	Averaged	
Styrene	0.826	0.785	0.785	0.300	4.91	20.0	Averaged	
Bromoform	50.0	45.4	0.151	0.100	9.22	20.0	Quadratic	
Isopropylbenzene	1.21	1.13	1.13	0.100	6.69	20.0	Averaged	
1,1,2,2-Tetrachloroethane	50.0	50.6	0.686	0.300	-1.190	20.0	Quadratic	
69 4-Bromofluorobenzene	50.0	59.1	0.406	0.100	-18.222	20.0	Quadratic	
1,2,3-Trichloropropane	50.0	49.6	0.686	0.100	0.878	20.0	Quadratic	
trans-1,4-Dichloro-2-butene	50.0	48.8	0.079	0.050	2.45	20.0	Quadratic	
n-Propylbenzene	2.58	2.45	2.45	0.100	5.31	20.0	Averaged	

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP Site 50

Workorder HS24051300

RunID U052402.D

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID VOA9.i
Lab File ID U052402A.D
Analysis Type WATER
Lab Sample ID VSTD050

Injection Date 24-MAY-2024 1252
ICAL Date(s) 22-MAY-2024, 22-MAY-2024
ICAL Times 20:22, 23:36
Quant Type ISTD

Compound	RRF / RRF / Conc	RF50 / RF50	CCV RRF50	Min RRF	%D / %D / %DRIFT	Max %D / %D / %DRIFT	Curve CURVE TYPE	Q
Bromobenzene	0.658	0.568	0.568	0.100	13.7	20.0	Averaged	
1,3,5-Trimethylbenzene	1.78	1.72	1.72	0.100	3.52	20.0	Averaged	
2-Chlorotoluene	1.67	1.46	1.46	0.100	12.5	20.0	Averaged	
4-Chlorotoluene	1.91	1.71	1.71	0.100	10.2	20.0	Averaged	
tert-Butylbenzene	1.56	1.47	1.47	0.100	6.18	20.0	Averaged	
1,2,4-Trimethylbenzene	1.83	1.71	1.71	0.100	6.27	20.0	Averaged	
sec-Butylbenzene	2.08	1.98	1.98	0.100	4.91	20.0	Averaged	
p-Isopropyltoluene	1.81	1.76	1.76	0.100	2.47	20.0	Averaged	
1,3-Dichlorobenzene	50.0	48.5	1.02	0.600	2.98	20.0	Quadratic	
1,4-Dichlorobenzene	50.0	48.8	1.07	0.400	2.33	20.0	Quadratic	
Benzyl Chloride	50.0	50.9	0.325	0.010	-1.832	20.0	Quadratic	
n-Butylbenzene	50.0	46.8	1.56	0.500	6.44	20.0	Quadratic	
1,2-Dichlorobenzene	50.0	48.5	1.01	0.400	3.04	20.0	Quadratic	
1,2-Dibromo-3-Chloropropane	50.0	48.0	0.081	0.050	4.08	20.0	Quadratic	
1,2,4-Trichlorobenzene	0.751	0.664	0.664	0.200	11.5	20.0	Averaged	
Hexachlorobutadiene	50.0	47.0	0.284	0.100	6.02	20.0	Quadratic	
Naphthalene	1.59	1.64	1.64	0.200	-3.255	20.0	Averaged	
1,2,3-Trichlorobenzene	0.699	0.628	0.628	0.100	10.2	20.0	Averaged	
Methyl Acetate	50.0	53.7	0.419	0.100	-7.402	20.0	Quadratic	
Freon TF	0.538	0.517	0.517	0.100	3.93	20.0	Averaged	
Cyclohexane	50.0	48.0	0.528	0.100	4.08	20.0	Quadratic	
Tetrahydrofuran	100	101	0.065	0.001	-1.375	20.0	Quadratic	
Methylcyclohexane	0.600	0.566	0.566	0.100	5.63	20.0	Averaged	
1,4-Dioxane	1000	899	0.003	0.001	10.1	20.0	Quadratic	
n-Butanol	0.009	0.009	0.009	0.005	6.57	20.0	Averaged	
n-Hexane	50.0	50.6	0.363	0.100	-1.199	20.0	Quadratic	
Diethyl ether	50.0	45.4	0.216	0.100	9.11	20.0	Quadratic	
Tert-butyl alcohol	1000	1106	0.025	0.005	-10.574	20.0	Quadratic	
Isopropyl alcohol	1000	1060	0.019	0.005	-5.993	20.0	Quadratic	
Amyl alcohol	1000	1023	0.008	0.005	-2.307	20.0	Quadratic	
Diisopropyl ether	50.0	44.4	1.02	0.100	11.1	20.0	Quadratic	
Butyl acrylate	0.529	0.460	0.460	0.100	12.9	20.0	Averaged	
n-Amyl acetate	50.0	48.8	0.488	0.100	2.34	20.0	Quadratic	
Dicyclopentadiene	50.0	44.6	1.95	0.100	10.8	20.0	Quadratic	

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP Site 50

Workorder HS24051300

RunID U052402.D

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID VOA9.i
Lab File ID U052402A.D
Analysis Type WATER
Lab Sample ID VSTD050

Injection Date 24-MAY-2024 1252
ICAL Date(s) 22-MAY-2024, 22-MAY-2024
ICAL Times 20:22, 23:36
Quant Type ISTD

Compound	RRF / RRF / Conc	RF50 / RF50	CCV RRF50	Min RRF	%D / %D / %DRIFT	Max %D / %D / %DRIFT	Curve CURVE TYPE	Q
1,2,3-Trimethylbenzene	1.70	1.50	1.50	0.100	11.4	20.0	Averaged	
Ethanol	1000	1045	0.004	0.001	-4.456	20.0	Quadratic	
tert-Butyl formate	100	119	0.265	0.100	-19.217	20.0	Quadratic	
3,3-Dimethyl-1-butanol	1000	1097	0.029	0.005	-9.746	20.0	Quadratic	
tert-Amyl methyl ether	1.11	0.951	0.951	0.005	14.0	20.0	Averaged	
tert-Butyl ethyl ether	1.11	0.906	0.906	0.100	18.5	20.0	Averaged	
tert-Amyl alcohol	1000	1177	0.027	0.005	-17.674	20.0	Quadratic	
4-Methyl-2-pentanol	0.075	0.075	0.075	0.005	-0.276	20.0	Averaged	
1,3-Butadiene	0.198	0.185	0.185	0.100	6.18	20.0	Averaged	
Epichlorohydrin	200	210	0.017	0.001	-4.875	20.0	Quadratic	
94 1,2-Dichloroethylene (total	0.397	0.337	0.337	0.200	15.0	20.0	Averaged	
95 Xylenes (total)	0.446	0.413	0.413	0.100	7.37	20.0	Averaged	
alpha-Methylstyrene	0.732	0.696	0.696	0.100	4.95	20.0	Averaged	
Ethyl Acetate	50.0	51.6	0.432	0.100	-3.167	20.0	Quadratic	
Methyl Acrylate	50.0	47.8	0.410	0.100	4.32	20.0	Quadratic	
n-Butyl acetate	0.516	0.481	0.481	0.100	6.74	20.0	Averaged	
Cyclohexanone	1000	910	0.024	0.005	8.97	20.0	Quadratic	
Isoprene	0.085	0.080	0.080	0.010	5.86	20.0	Averaged	
Isopropyl acetate	50.0	51.5	0.746	0.100	-2.993	20.0	Quadratic	
Allyl alcohol	1000	1012	0.018	0.004	-1.199	20.0	Quadratic	
Acetaldehyde	0.067	0.069	0.069	0.001	-2.091	20.0	Averaged	
Methyl Amyl Ketone	0.627	0.558	0.558	0.100	11.1	20.0	Averaged	
Dimethyl Disulfide	50.0	38.8	0.130	0.020	22.4	20.0	Quadratic	*
Isobutylene	50.0	46.5	0.114	0.010	7.04	20.0	Quadratic	
Ethyl Acrylate	0.882	0.815	0.815	0.100	7.54	20.0	Averaged	
Butyl methacrylate	50.0	44.9	0.501	0.100	10.3	20.0	Quadratic	
Propylene oxide	100	90.8	0.024	0.005	9.17	20.0	Quadratic	
2-Ethylhexyl Acrylate	50.0	47.1	0.457	0.100	5.78	20.0	Quadratic	

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP Site 50

Workorder HS24051300

RunID U052429.D

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID VOA9.i
Lab File ID U052429.D
Analysis Type WATER
Lab Sample ID VSTD050

Injection Date 24-MAY-2024 2238
ICAL Date(s) 22-MAY-2024, 22-MAY-2024
ICAL Times 20:22, 23:36
Quant Type ISTD

Compound	RRF / RRF / Conc	RF50 / RF50	CCV RRF50	Min RRF	%D / %D / %DRIFT	Max %D / %D / %DRIFT	Curve CURVE TYPE	Q
Dichlorodifluoromethane	0.267	0.248	0.248	0.100	7.04	50.0	Averaged	
Chloromethane	50.0	44.7	0.825	0.100	10.6	50.0	Quadratic	
Propionitrile	500	583	0.059	0.010	-16.543	50.0	Quadratic	
Vinyl Chloride	0.453	0.396	0.396	0.100	12.5	50.0	Averaged	
Bromomethane	50.0	52.6	0.145	0.100	-5.236	50.0	Quadratic	
Chloroethane	0.319	0.271	0.271	0.100	15.2	50.0	Averaged	
Trichlorofluoromethane	0.517	0.481	0.481	0.100	7.00	50.0	Averaged	
Acrolein	100	98.9	0.018	0.010	1.12	50.0	Quadratic	
Acetone	100	92.2	0.131	0.100	7.76	50.0	Linear	
1,1-Dichloroethene	0.315	0.272	0.272	0.100	13.5	50.0	Averaged	
Isobutyl Alcohol	1000	1016	0.053	0.005	-1.576	50.0	Quadratic	
Acetonitrile	0.041	0.039	0.039	0.005	5.00	50.0	Averaged	
Allyl Chloride	50.0	52.1	0.948	0.100	-4.107	50.0	Quadratic	
Iodomethane	100	70.7	0.042	0.100	29.3	50.0	Quadratic	
Acrylonitrile	100	108	0.140	0.050	-8.453	50.0	Quadratic	
Methylene Chloride	50.0	47.4	0.350	0.100	5.12	50.0	Quadratic	
Methyl tert-butyl ether	50.0	54.4	0.934	0.100	-8.869	50.0	Quadratic	
Carbon Disulfide	0.952	0.811	0.811	0.100	14.8	50.0	Averaged	
trans-1,2-Dichloroethene	0.361	0.302	0.302	0.100	16.3	50.0	Averaged	
Vinyl Acetate	100	92.8	0.194	0.010	7.24	50.0	Quadratic	
1,1-Dichloroethane	50.0	47.6	0.586	0.200	4.88	50.0	Quadratic	
Chloroprene	0.551	0.484	0.484	0.100	12.1	50.0	Averaged	
2-Butanone	100	90.1	0.188	0.100	9.91	50.0	Quadratic	
Methacrylonitrile	50.0	52.0	0.246	0.100	-3.980	50.0	Quadratic	
2,2-Dichloropropane	0.441	0.327	0.327	0.100	25.8	50.0	Averaged	
cis-1,2-Dichloroethene	0.433	0.360	0.360	0.100	16.9	50.0	Averaged	
Chloroform	50.0	47.0	0.600	0.200	6.03	50.0	Quadratic	
Bromochloromethane	50.0	48.7	0.184	0.100	2.51	50.0	Quadratic	
30 Dibromofluoromethane	50.0	57.3	0.374	0.100	-14.700	50.0	Quadratic	
1,1,1-Trichloroethane	0.504	0.470	0.470	0.100	6.83	50.0	Averaged	
1,1-Dichloropropene	0.353	0.309	0.309	0.100	12.6	50.0	Averaged	
1,2-Dichloroethane	50.0	47.1	0.329	0.100	5.85	50.0	Quadratic	
Carbon Tetrachloride	0.287	0.259	0.259	0.100	9.91	50.0	Averaged	
35 1,2-Dichloroethane-d4	50.0	56.3	0.446	0.100	-12.683	50.0	Quadratic	

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP Site 50

Workorder HS24051300

RunID U052429.D

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID VOA9.i
Lab File ID U052429.D
Analysis Type WATER
Lab Sample ID VSTD050

Injection Date 24-MAY-2024 2238
ICAL Date(s) 22-MAY-2024, 22-MAY-2024
ICAL Times 20:22, 23:36
Quant Type ISTD

Compound	RRF / RRF / Conc	RF50 / RF50	CCV RRF50	Min RRF	%D / %D / %DRIFT	Max %D / %D / %DRIFT	Curve CURVE TYPE	Q
Benzene	50.0	46.7	0.961	0.500	6.60	50.0	Quadratic	
Trichloroethene	0.277	0.243	0.243	0.200	12.5	50.0	Averaged	
Bromodichloromethane	0.304	0.280	0.280	0.200	7.88	50.0	Averaged	
Methyl Methacrylate	50.0	54.5	0.141	0.100	-8.905	50.0	Quadratic	
2-Chloroethylvinyl ether	100	73.1	0.076	0.001	26.9	50.0	Quadratic	
1,2-Dichloropropane	50.0	46.4	0.259	0.100	7.16	50.0	Quadratic	
2-Nitropropane	50.0	56.7	0.084	0.000	-13.367	50.0	Quadratic	
Dibromomethane	0.172	0.147	0.147	0.100	14.5	50.0	Averaged	
4-Methyl-2-Pentanone	0.345	0.307	0.307	0.100	11.0	50.0	Averaged	
cis-1,3-Dichloropropene	0.351	0.328	0.328	0.200	6.66	50.0	Averaged	
48 Toluene-d8	50.0	60.4	1.12	0.100	-20.705	50.0	Quadratic	
Ethyl Methacrylate	0.369	0.377	0.377	0.100	-2.100	50.0	Averaged	
Toluene	1.26	1.09	1.09	0.400	13.8	50.0	Averaged	
trans-1,3-Dichloropropene	50.0	43.4	0.265	0.100	13.2	50.0	Quadratic	
2-Hexanone	0.231	0.189	0.189	0.100	18.3	50.0	Averaged	
1,1,2-Trichloroethane	50.0	46.8	0.207	0.100	6.40	50.0	Quadratic	
1,3-Dichloropropane	50.0	46.8	0.446	0.100	6.40	50.0	Quadratic	
Dibromochloromethane	0.245	0.238	0.238	0.100	2.87	50.0	Averaged	
Tetrachloroethene	0.238	0.211	0.211	0.200	11.3	50.0	Averaged	
1,2-Dibromoethane	0.267	0.237	0.237	0.100	11.3	50.0	Averaged	
1-Chlorohexane	50.0	44.1	0.196	0.100	11.8	50.0	Quadratic	
Chlorobenzene	50.0	46.9	0.695	0.500	6.28	50.0	Quadratic	
1,1,1,2-Tetrachloroethane	0.261	0.236	0.236	0.100	9.50	50.0	Averaged	
Ethylbenzene	0.405	0.351	0.351	0.100	13.3	50.0	Averaged	
m,p-Xylenes	0.497	0.441	0.441	0.100	11.4	50.0	Averaged	
o-Xylene	0.487	0.442	0.442	0.300	9.14	50.0	Averaged	
Styrene	0.826	0.752	0.752	0.300	8.94	50.0	Averaged	
Bromoform	50.0	43.7	0.145	0.100	12.7	50.0	Quadratic	
Isopropylbenzene	1.21	1.10	1.10	0.100	8.91	50.0	Averaged	
1,1,2,2-Tetrachloroethane	50.0	45.6	0.618	0.300	8.82	50.0	Quadratic	
69 4-Bromofluorobenzene	50.0	59.7	0.410	0.100	-19.493	50.0	Quadratic	
1,2,3-Trichloropropane	50.0	44.1	0.608	0.100	11.9	50.0	Quadratic	
trans-1,4-Dichloro-2-butene	50.0	40.5	0.065	0.050	19.1	50.0	Quadratic	
n-Propylbenzene	2.58	2.35	2.35	0.100	9.06	50.0	Averaged	

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP Site 50

Workorder HS24051300

RunID U052429.D

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID VOA9.i
Lab File ID U052429.D
Analysis Type WATER
Lab Sample ID VSTD050

Injection Date 24-MAY-2024 2238
ICAL Date(s) 22-MAY-2024, 22-MAY-2024
ICAL Times 20:22, 23:36
Quant Type ISTD

Compound	RRF / RRF / Conc	RF50 / RF50	CCV RRF50	Min RRF	%D / %D / %DRIFT	Max %D / %D / %DRIFT	Curve CURVE TYPE	Q
Bromobenzene	0.658	0.550	0.550	0.100	16.4	50.0	Averaged	
1,3,5-Trimethylbenzene	1.78	1.65	1.65	0.100	7.58	50.0	Averaged	
2-Chlorotoluene	1.67	1.43	1.43	0.100	14.8	50.0	Averaged	
4-Chlorotoluene	1.91	1.64	1.64	0.100	14.1	50.0	Averaged	
tert-Butylbenzene	1.56	1.42	1.42	0.100	9.13	50.0	Averaged	
1,2,4-Trimethylbenzene	1.83	1.61	1.61	0.100	11.7	50.0	Averaged	
sec-Butylbenzene	2.08	1.90	1.90	0.100	8.70	50.0	Averaged	
p-Isopropyltoluene	1.81	1.66	1.66	0.100	8.32	50.0	Averaged	
1,3-Dichlorobenzene	50.0	45.7	0.965	0.600	8.59	50.0	Quadratic	
1,4-Dichlorobenzene	50.0	46.0	1.01	0.400	8.04	50.0	Quadratic	
Benzyl Chloride	50.0	30.0	0.187	0.010	40.1	50.0	Quadratic	
n-Butylbenzene	50.0	41.9	1.39	0.500	16.2	50.0	Quadratic	
1,2-Dichlorobenzene	50.0	45.7	0.951	0.400	8.53	50.0	Quadratic	
1,2-Dibromo-3-Chloropropane	50.0	42.2	0.071	0.050	15.6	50.0	Quadratic	
1,2,4-Trichlorobenzene	0.751	0.601	0.601	0.200	19.9	50.0	Averaged	
Hexachlorobutadiene	50.0	41.7	0.252	0.100	16.6	50.0	Quadratic	
Naphthalene	1.59	1.43	1.43	0.200	10.2	50.0	Averaged	
1,2,3-Trichlorobenzene	0.699	0.544	0.544	0.100	22.2	50.0	Averaged	
Methyl Acetate	50.0	48.6	0.380	0.100	2.89	50.0	Quadratic	
Freon TF	0.538	0.552	0.552	0.100	-2.582	50.0	Averaged	
Cyclohexane	50.0	47.6	0.524	0.100	4.81	50.0	Quadratic	
Tetrahydrofuran	100	115	0.074	0.001	-14.505	50.0	Quadratic	
Methylcyclohexane	0.600	0.646	0.646	0.100	-7.555	50.0	Averaged	
1,4-Dioxane	1000	1061	0.004	0.001	-6.134	50.0	Quadratic	
n-Butanol	0.009	0.009	0.009	0.005	0.907	50.0	Averaged	
n-Hexane	50.0	42.3	0.303	0.100	15.3	50.0	Quadratic	
Diethyl ether	50.0	54.2	0.258	0.100	-8.362	50.0	Quadratic	
Tert-butyl alcohol	1000	1175	0.026	0.005	-17.529	50.0	Quadratic	
Isopropyl alcohol	1000	1171	0.021	0.005	-17.077	50.0	Quadratic	
Amyl alcohol	1000	1108	0.008	0.005	-10.820	50.0	Quadratic	
Diisopropyl ether	50.0	54.2	1.25	0.100	-8.432	50.0	Quadratic	
Butyl acrylate	0.529	0.528	0.528	0.100	0.065	50.0	Averaged	
n-Amyl acetate	50.0	47.0	0.469	0.100	5.99	50.0	Quadratic	
Dicyclopentadiene	50.0	53.5	2.34	0.100	-7.045	50.0	Quadratic	

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP Site 50

Workorder HS24051300

RunID U052429.D

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID VOA9.i
Lab File ID U052429.D
Analysis Type WATER
Lab Sample ID VSTD050

Injection Date 24-MAY-2024 2238
ICAL Date(s) 22-MAY-2024, 22-MAY-2024
ICAL Times 20:22, 23:36
Quant Type ISTD

Compound	RRF / RRF / Conc	RF50 / RF50	CCV RRF50	Min RRF	%D / %D / %DRIFT	Max %D / %D / %DRIFT	Curve CURVE TYPE	Q
1,2,3-Trimethylbenzene	1.70	1.79	1.79	0.100	-5.341	50.0	Averaged	
Ethanol	1000	1179	0.004	0.001	-17.874	50.0	Quadratic	
tert-Butyl formate	100	122	0.273	0.100	-22.117	50.0	Quadratic	
3,3-Dimethyl-1-butanol	1000	1197	0.032	0.005	-19.705	50.0	Quadratic	
tert-Amyl methyl ether	1.11	1.12	1.12	0.005	-1.341	50.0	Averaged	
tert-Butyl ethyl ether	1.11	1.10	1.10	0.100	1.05	50.0	Averaged	
tert-Amyl alcohol	1000	1206	0.027	0.005	-20.596	50.0	Quadratic	
4-Methyl-2-pentanol	0.075	0.083	0.083	0.005	-10.933	50.0	Averaged	
1,3-Butadiene	0.198	0.182	0.182	0.100	7.81	50.0	Averaged	
Epichlorohydrin	200	203	0.016	0.001	-1.620	50.0	Quadratic	
94 1,2-Dichloroethylene (total	0.397	0.331	0.331	0.200	16.6	50.0	Averaged	
95 Xylenes (total)	0.446	0.399	0.399	0.100	10.6	50.0	Averaged	
alpha-Methylstyrene	0.732	0.658	0.658	0.100	10.2	50.0	Averaged	
Ethyl Acetate	50.0	46.4	0.388	0.100	7.15	50.0	Quadratic	
Methyl Acrylate	50.0	55.0	0.472	0.100	-9.937	50.0	Quadratic	
n-Butyl acetate	0.516	0.438	0.438	0.100	15.1	50.0	Averaged	
Cyclohexanone	1000	1047	0.028	0.005	-4.661	50.0	Quadratic	
Isoprene	0.085	0.080	0.080	0.010	5.56	50.0	Averaged	
Isopropyl acetate	50.0	50.4	0.730	0.100	-0.817	50.0	Quadratic	
Allyl alcohol	1000	847	0.015	0.004	15.3	50.0	Quadratic	
Acetaldehyde	0.067	0.104	0.104	0.001	-55.054	50.0	Averaged	
Methyl Amyl Ketone	0.627	0.632	0.632	0.100	-0.779	50.0	Averaged	
Dimethyl Disulfide	50.0	46.1	0.159	0.020	7.78	50.0	Quadratic	
Isobutylene	++++	++++	1.200e+65	0.010	++++	50.0	Quadratic	*
Ethyl Acrylate	0.882	0.937	0.937	0.100	-6.330	50.0	Averaged	
Butyl methacrylate	50.0	54.2	0.607	0.100	-8.364	50.0	Quadratic	
Propylene oxide	100	90.3	0.024	0.005	9.74	50.0	Quadratic	
2-Ethylhexyl Acrylate	50.0	52.1	0.512	0.100	-4.202	50.0	Quadratic	

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP Site 50

Workorder HS24051300

RunID W052802.D

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID VOA9.i
Lab File ID W052802.D
Analysis Type WATER
Lab Sample ID VSTD050

Injection Date 30-MAY-2024 0328
ICAL Date(s) 29-MAY-2024, 29-MAY-2024
ICAL Times 10:39, 13:53
Quant Type ISTD

Compound	RRF / RRF / Conc	RF50 / RF50	CCV RRF50	Min RRF	%D / %D / %DRIFT	Max %D / %D / %DRIFT	Curve CURVE TYPE	Q
Dichlorodifluoromethane	0.186	0.215	0.215	0.100	-15.511	20.0	Averaged	
Chloromethane	50.0	59.4	0.790	0.100	-18.745	20.0	Linear	
Propionitrile	500	487	0.053	0.010	2.55	20.0	Quadratic	
Vinyl Chloride	0.378	0.406	0.406	0.100	-7.482	20.0	Averaged	
Bromomethane	50.0	53.1	0.175	0.100	-6.180	20.0	Linear	
Chloroethane	50.0	56.9	0.301	0.100	-13.703	20.0	Quadratic	
Trichlorofluoromethane	0.448	0.509	0.509	0.100	-13.545	20.0	Averaged	
Acrolein	100	117	0.021	0.010	-17.124	20.0	Quadratic	
Acetone	100	111	0.166	0.100	-10.552	20.0	Quadratic	
1,1-Dichloroethene	0.330	0.333	0.333	0.100	-1.063	20.0	Averaged	
Isobutyl Alcohol	1000	1132	0.061	0.005	-13.194	20.0	Quadratic	
Acetonitrile	0.041	0.039	0.039	0.005	4.79	20.0	Averaged	
Allyl Chloride	50.0	47.8	0.936	0.100	4.41	20.0	Quadratic	
Iodomethane	100	116	0.085	0.100	-15.735	20.0	Quadratic	*
Acrylonitrile	100	94.7	0.131	0.050	5.26	20.0	Quadratic	
Methylene Chloride	50.0	55.5	0.429	0.100	-11.001	20.0	Quadratic	
Methyl tert-butyl ether	50.0	47.8	0.886	0.100	4.30	20.0	Quadratic	
Carbon Disulfide	0.925	0.925	0.925	0.100	-0.083	20.0	Averaged	
trans-1,2-Dichloroethene	0.373	0.366	0.366	0.100	1.88	20.0	Averaged	
Vinyl Acetate	0.220	0.248	0.248	0.010	-12.704	20.0	Averaged	
1,1-Dichloroethane	0.716	0.714	0.714	0.200	0.293	20.0	Averaged	
Chloroprene	0.525	0.586	0.586	0.100	-11.661	20.0	Averaged	
2-Butanone	0.223	0.232	0.232	0.100	-3.864	20.0	Averaged	
Methacrylonitrile	50.0	48.8	0.223	0.100	2.34	20.0	Quadratic	
2,2-Dichloropropane	0.470	0.396	0.396	0.100	15.7	20.0	Averaged	
cis-1,2-Dichloroethene	0.460	0.441	0.441	0.100	4.13	20.0	Averaged	
Chloroform	0.715	0.742	0.742	0.200	-3.756	20.0	Averaged	
Bromochloromethane	50.0	54.0	0.229	0.100	-7.938	20.0	Linear	
30 Dibromofluoromethane	50.0	58.1	0.371	0.100	-16.248	20.0	Quadratic	
1,1,1-Trichloroethane	0.501	0.570	0.570	0.100	-13.802	20.0	Averaged	
1,1-Dichloropropene	0.362	0.375	0.375	0.100	-3.573	20.0	Averaged	
1,2-Dichloroethane	50.0	56.7	0.422	0.100	-13.365	20.0	Linear	
Carbon Tetrachloride	0.284	0.316	0.316	0.100	-11.410	20.0	Averaged	
35 1,2-Dichloroethane-d4	50.0	57.0	0.439	0.100	-13.997	20.0	Linear	

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP Site 50

Workorder HS24051300

RunID W052802.D

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID VOA9.i
Lab File ID W052802.D
Analysis Type WATER
Lab Sample ID VSTD050

Injection Date 30-MAY-2024 0328
ICAL Date(s) 29-MAY-2024, 29-MAY-2024
ICAL Times 10:39, 13:53
Quant Type ISTD

Compound	RRF / RRF / Conc	RF50 / RF50	CCV RRF50	Min RRF	%D / %D / %DRIFT	Max %D / %D / %DRIFT	Curve CURVE TYPE	Q
Benzene	1.18	1.16	1.16	0.500	1.36	20.0	Averaged	
Trichloroethene	0.290	0.289	0.289	0.200	0.364	20.0	Averaged	
Bromodichloromethane	0.317	0.356	0.356	0.200	-12.442	20.0	Averaged	
Methyl Methacrylate	50.0	45.7	0.160	0.100	8.52	20.0	Quadratic	
2-Chloroethylvinyl ether	100	106	0.111	0.001	-5.937	20.0	Quadratic	
1,2-Dichloropropane	0.311	0.323	0.323	0.100	-4.008	20.0	Averaged	
2-Nitropropane	50.0	50.1	0.087	0.000	-0.213	20.0	Quadratic	
Dibromomethane	0.180	0.192	0.192	0.100	-6.668	20.0	Averaged	
4-Methyl-2-Pentanone	100	113	0.384	0.100	-13.422	20.0	Quadratic	
cis-1,3-Dichloropropene	50.0	52.3	0.440	0.200	-4.604	20.0	Quadratic	
48 Toluene-d8	50.0	58.1	1.11	0.100	-16.194	20.0	Linear	
Ethyl Methacrylate	0.387	0.339	0.339	0.100	12.5	20.0	Averaged	
Toluene	1.36	1.32	1.32	0.400	2.53	20.0	Averaged	
trans-1,3-Dichloropropene	50.0	53.0	0.366	0.100	-5.967	20.0	Quadratic	
2-Hexanone	100	113	0.250	0.100	-13.235	20.0	Quadratic	
1,1,2-Trichloroethane	50.0	57.6	0.275	0.100	-15.272	20.0	Quadratic	
1,3-Dichloropropane	0.553	0.591	0.591	0.100	-6.856	20.0	Averaged	
Dibromochloromethane	50.0	54.2	0.319	0.100	-8.387	20.0	Quadratic	
Tetrachloroethene	0.237	0.251	0.251	0.200	-5.690	20.0	Averaged	
1,2-Dibromoethane	0.298	0.322	0.322	0.100	-7.947	20.0	Averaged	
1-Chlorohexane	50.0	51.9	0.216	0.100	-3.726	20.0	Quadratic	
Chlorobenzene	0.862	0.859	0.859	0.500	0.366	20.0	Averaged	
1,1,1,2-Tetrachloroethane	0.275	0.306	0.306	0.100	-11.239	20.0	Averaged	
Ethylbenzene	50.0	53.4	0.427	0.100	-6.859	20.0	Quadratic	
m,p-Xylenes	100	106	0.548	0.100	-6.473	20.0	Quadratic	
o-Xylene	50.0	51.8	0.536	0.300	-3.603	20.0	Linear	
Styrene	0.828	0.906	0.906	0.300	-9.427	20.0	Averaged	
Bromoform	50.0	51.8	0.198	0.100	-3.653	20.0	Quadratic	
Isopropylbenzene	1.19	1.32	1.32	0.100	-10.712	20.0	Averaged	
1,1,2,2-Tetrachloroethane	0.831	0.842	0.842	0.300	-1.331	20.0	Averaged	
69 4-Bromofluorobenzene	50.0	59.0	0.410	0.100	-17.977	20.0	Linear	
1,2,3-Trichloropropane	0.779	0.824	0.824	0.100	-5.776	20.0	Averaged	
trans-1,4-Dichloro-2-butene	0.085	0.087	0.087	0.050	-1.843	20.0	Averaged	
n-Propylbenzene	2.69	2.78	2.78	0.100	-3.040	20.0	Averaged	

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP Site 50

Workorder HS24051300

RunID W052802.D

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID VOA9.i
Lab File ID W052802.D
Analysis Type WATER
Lab Sample ID VSTD050

Injection Date 30-MAY-2024 0328
ICAL Date(s) 29-MAY-2024, 29-MAY-2024
ICAL Times 10:39, 13:53
Quant Type ISTD

Compound	RRF / RRF / Conc	RF50 / RF50	CCV RRF50	Min RRF	%D / %D / %DRIFT	Max %D / %D / %DRIFT	Curve CURVE TYPE	Q
Bromobenzene	0.688	0.687	0.687	0.100	0.033	20.0	Averaged	
1,3,5-Trimethylbenzene	50.0	53.0	1.95	0.100	-6.007	20.0	Quadratic	
2-Chlorotoluene	50.0	54.9	1.73	0.100	-9.748	10.0	Quadratic	
4-Chlorotoluene	1.93	1.99	1.99	0.100	-3.113	20.0	Averaged	
tert-Butylbenzene	1.51	1.69	1.69	0.100	-11.862	20.0	Averaged	
1,2,4-Trimethylbenzene	50.0	52.1	1.96	0.100	-4.187	20.0	Quadratic	
sec-Butylbenzene	2.05	2.25	2.25	0.100	-9.359	20.0	Averaged	
p-Isopropyltoluene	1.79	1.93	1.93	0.100	-8.096	20.0	Averaged	
1,3-Dichlorobenzene	1.16	1.19	1.19	0.600	-2.698	20.0	Averaged	
1,4-Dichlorobenzene	1.29	1.25	1.25	0.400	2.91	20.0	Averaged	
Benzyl Chloride	50.0	40.1	0.322	0.010	19.7	20.0	Quadratic	
n-Butylbenzene	50.0	51.2	1.65	0.500	-2.393	20.0	Quadratic	
1,2-Dichlorobenzene	1.20	1.21	1.21	0.400	-0.224	20.0	Averaged	
1,2-Dibromo-3-Chloropropane	50.0	50.8	0.107	0.050	-1.534	20.0	Quadratic	
1,2,4-Trichlorobenzene	0.758	0.779	0.779	0.200	-2.716	20.0	Averaged	
Hexachlorobutadiene	0.304	0.310	0.310	0.100	-2.002	20.0	Averaged	
Naphthalene	50.0	53.8	1.99	0.200	-7.573	20.0	Quadratic	
1,2,3-Trichlorobenzene	0.706	0.730	0.730	0.100	-3.358	20.0	Averaged	
Methyl Acetate	50.0	57.1	0.452	0.100	-14.203	20.0	Linear	
Freon TF	50.0	51.9	0.289	0.100	-3.707	20.0	Quadratic	
Cyclohexane	50.0	54.3	0.517	0.100	-8.538	20.0	Quadratic	
Tetrahydrofuran	100	101	0.072	0.001	-0.722	20.0	Quadratic	
Methylcyclohexane	50.0	46.6	0.575	0.100	6.72	20.0	Quadratic	
1,4-Dioxane	1000	864	0.004	0.001	13.6	20.0	Quadratic	
n-Butanol	0.013	0.011	0.011	0.005	18.0	20.0	Averaged	
n-Hexane	50.0	45.0	0.299	0.100	10.0	20.0	Quadratic	
Diethyl ether	50.0	48.8	0.256	0.100	2.50	20.0	Quadratic	
Tert-butyl alcohol	1000	924	0.032	0.005	7.63	20.0	Quadratic	
Isopropyl alcohol	1000	950	0.026	0.005	4.98	20.0	Quadratic	
Amyl alcohol	1000	891	0.010	0.005	10.9	20.0	Quadratic	
Diisopropyl ether	1.28	1.15	1.15	0.100	9.57	20.0	Averaged	
Butyl acrylate	50.0	43.4	0.463	0.100	13.2	20.0	Quadratic	
n-Amyl acetate	0.543	0.555	0.555	0.100	-2.293	20.0	Averaged	
Dicyclopentadiene	2.56	2.32	2.32	0.100	9.43	20.0	Averaged	

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP Site 50

Workorder HS24051300

RunID W052802.D

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID VOA9.i
Lab File ID W052802.D
Analysis Type WATER
Lab Sample ID VSTD050

Injection Date 30-MAY-2024 0328
ICAL Date(s) 29-MAY-2024, 29-MAY-2024
ICAL Times 10:39, 13:53
Quant Type ISTD

Compound	RRF / RRF / Conc	RF50 / RF50	CCV RRF50	Min RRF	%D / %D / %DRIFT	Max %D / %D / %DRIFT	Curve CURVE TYPE	Q
1,2,3-Trimethylbenzene	50.0	45.1	1.57	0.100	9.87	20.0	Linear	
Ethanol	1000	963	0.005	0.001	3.74	20.0	Quadratic	
tert-Butyl formate	0.395	0.324	0.324	0.100	17.8	20.0	Averaged	
3,3-Dimethyl-1-butanol	0.035	0.029	0.029	0.005	16.8	20.0	Averaged	
tert-Amyl methyl ether	1.17	1.01	1.01	0.005	13.7	20.0	Averaged	
tert-Butyl ethyl ether	1.14	0.993	0.993	0.100	13.2	20.0	Averaged	
tert-Amyl alcohol	0.040	0.032	0.032	0.005	18.8	20.0	Averaged	
4-Methyl-2-pentanol	1000	915	0.075	0.005	8.49	20.0	Quadratic	
1,3-Butadiene	0.185	0.199	0.199	0.100	-7.795	20.0	Averaged	
Epichlorohydrin	200	178	0.015	0.001	10.9	20.0	Quadratic	
94 1,2-Dichloroethylene (total	0.417	0.404	0.404	0.200	3.12	20.0	Averaged	
95 Xylenes (total)	150	++++	0.490	0.100	++++	20.0	Quadratic	*
alpha-Methylstyrene	50.0	52.1	0.800	0.100	-4.136	20.0	Quadratic	
Ethyl Acetate	0.461	0.497	0.497	0.100	-7.850	20.0	Averaged	
Methyl Acrylate	50.0	47.3	0.436	0.100	5.30	20.0	Quadratic	
n-Butyl acetate	0.525	0.561	0.561	0.100	-6.914	20.0	Averaged	
Cyclohexanone	1000	814	0.023	0.005	18.6	20.0	Quadratic	
Isoprene	50.0	56.6	0.091	0.010	-13.145	20.0	Quadratic	
Isopropyl acetate	0.830	0.841	0.841	0.100	-1.382	20.0	Averaged	
Allyl alcohol	1000	900	0.015	0.004	10.0	20.0	Quadratic	
Acetaldehyde	200	205	0.085	0.001	-2.664	20.0	Quadratic	
Methyl Amyl Ketone	0.609	0.521	0.521	0.100	14.4	20.0	Averaged	
Dimethyl Disulfide	50.0	36.2	0.171	0.020	27.6	20.0	Quadratic	*
Isobutylene	50.0	50.0	0.154	0.010	0.013	20.0	Quadratic	
Ethyl Acrylate	50.0	46.9	0.831	0.100	6.21	20.0	Quadratic	
Butyl methacrylate	0.579	0.507	0.507	0.100	12.3	20.0	Averaged	
Propylene oxide	100	101	0.029	0.005	-0.685	20.0	Quadratic	
2-Ethylhexyl Acrylate	50.0	46.2	0.572	0.100	7.66	20.0	Quadratic	

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP Site 50

Workorder HS24051300

RunID W052818.D

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID VOA9.i
Lab File ID W052818.D
Analysis Type WATER
Lab Sample ID CCV

Injection Date 30-MAY-2024 0918
ICAL Date(s) 29-MAY-2024, 29-MAY-2024
ICAL Times 10:39, 13:53
Quant Type ISTD

Compound	RRF / RRF / Conc	RF50 / RF50	CCV RRF50	Min RRF	%D / %D / %DRIFT	Max %D / %D / %DRIFT	Curve CURVE TYPE	Q
Dichlorodifluoromethane	0.186	0.151	0.151	0.100	19.1	50.0	Averaged	
Chloromethane	50.0	44.1	0.589	0.100	11.8	50.0	Linear	
Propionitrile	500	457	0.050	0.010	8.67	50.0	Quadratic	
Vinyl Chloride	0.378	0.285	0.285	0.100	24.6	50.0	Averaged	
Bromomethane	50.0	33.3	0.112	0.100	33.3	50.0	Linear	
Chloroethane	50.0	40.1	0.211	0.100	19.8	50.0	Quadratic	
Trichlorofluoromethane	0.448	0.366	0.366	0.100	18.4	50.0	Averaged	
Acrolein	100	76.5	0.013	0.010	23.5	50.0	Quadratic	
Acetone	100	71.8	0.109	0.100	28.2	50.0	Quadratic	
1,1-Dichloroethene	0.330	0.231	0.231	0.100	30.0	50.0	Averaged	
Isobutyl Alcohol	1000	876	0.046	0.005	12.4	50.0	Quadratic	
Acetonitrile	0.041	0.036	0.036	0.005	10.5	50.0	Averaged	
Allyl Chloride	50.0	45.1	0.883	0.100	9.78	50.0	Quadratic	
Iodomethane	100	107	0.045	0.100	-7.087	50.0	Quadratic	
Acrylonitrile	100	90.9	0.126	0.050	9.11	50.0	Quadratic	
Methylene Chloride	50.0	39.5	0.306	0.100	20.9	50.0	Quadratic	
Methyl tert-butyl ether	50.0	44.3	0.819	0.100	11.5	50.0	Quadratic	
Carbon Disulfide	0.925	0.638	0.638	0.100	31.0	50.0	Averaged	
trans-1,2-Dichloroethene	0.373	0.252	0.252	0.100	32.5	50.0	Averaged	
Vinyl Acetate	0.220	0.169	0.169	0.010	23.3	50.0	Averaged	
1,1-Dichloroethane	0.716	0.508	0.508	0.200	29.1	50.0	Averaged	
Chloroprene	0.525	0.417	0.417	0.100	20.5	50.0	Averaged	
2-Butanone	0.223	0.153	0.153	0.100	31.7	50.0	Averaged	
Methacrylonitrile	50.0	44.1	0.201	0.100	11.7	50.0	Quadratic	
2,2-Dichloropropane	0.470	0.228	0.228	0.100	51.5	50.0	Averaged	*
cis-1,2-Dichloroethene	0.460	0.321	0.321	0.100	30.3	50.0	Averaged	
Chloroform	0.715	0.522	0.522	0.200	27.0	50.0	Averaged	
Bromochloromethane	50.0	36.9	0.156	0.100	26.1	50.0	Linear	
30 Dibromofluoromethane	50.0	57.4	0.366	0.100	-14.779	50.0	Quadratic	
1,1,1-Trichloroethane	0.501	0.397	0.397	0.100	20.8	50.0	Averaged	
1,1-Dichloropropene	0.362	0.265	0.265	0.100	26.9	50.0	Averaged	
1,2-Dichloroethane	50.0	40.0	0.297	0.100	20.0	50.0	Linear	
Carbon Tetrachloride	0.284	0.221	0.221	0.100	22.2	50.0	Averaged	
35 1,2-Dichloroethane-d4	50.0	57.3	0.441	0.100	-14.664	50.0	Linear	

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP Site 50

Workorder HS24051300

RunID W052818.D

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID VOA9.i
Lab File ID W052818.D
Analysis Type WATER
Lab Sample ID CCV

Injection Date 30-MAY-2024 0918
ICAL Date(s) 29-MAY-2024, 29-MAY-2024
ICAL Times 10:39, 13:53
Quant Type ISTD

Compound	RRF / RRF / Conc	RF50 / RF50	CCV RRF50	Min RRF	%D / %D / %DRIFT	Max %D / %D / %DRIFT	Curve CURVE TYPE	Q
Benzene	1.18	0.828	0.828	0.500	29.7	50.0	Averaged	
Trichloroethene	0.290	0.211	0.211	0.200	27.3	50.0	Averaged	
Bromodichloromethane	0.317	0.244	0.244	0.200	22.9	50.0	Averaged	
Methyl Methacrylate	50.0	41.4	0.144	0.100	17.2	50.0	Quadratic	
2-Chloroethylvinyl ether	100	75.3	0.077	0.001	24.7	50.0	Quadratic	
1,2-Dichloropropane	0.311	0.229	0.229	0.100	26.1	50.0	Averaged	
2-Nitropropane	50.0	44.3	0.076	0.000	11.4	50.0	Quadratic	
Dibromomethane	0.180	0.132	0.132	0.100	27.0	50.0	Averaged	
4-Methyl-2-Pentanone	100	74.9	0.250	0.100	25.1	50.0	Quadratic	
cis-1,3-Dichloropropene	50.0	35.1	0.289	0.200	29.8	50.0	Quadratic	
48 Toluene-d8	50.0	57.1	1.09	0.100	-14.209	50.0	Linear	
Ethyl Methacrylate	0.387	0.308	0.308	0.100	20.4	50.0	Averaged	
Toluene	1.36	0.930	0.930	0.400	31.5	50.0	Averaged	
trans-1,3-Dichloropropene	50.0	34.7	0.234	0.100	30.5	50.0	Quadratic	
2-Hexanone	100	73.7	0.159	0.100	26.3	50.0	Quadratic	
1,1,2-Trichloroethane	50.0	39.0	0.186	0.100	22.0	50.0	Quadratic	
1,3-Dichloropropane	0.553	0.400	0.400	0.100	27.6	50.0	Averaged	
Dibromochloromethane	50.0	36.0	0.208	0.100	28.0	50.0	Quadratic	
Tetrachloroethene	0.237	0.177	0.177	0.200	25.5	50.0	Averaged	
1,2-Dibromoethane	0.298	0.216	0.216	0.100	27.6	50.0	Averaged	
1-Chlorohexane	50.0	37.8	0.156	0.100	24.5	50.0	Quadratic	
Chlorobenzene	0.862	0.597	0.597	0.500	30.7	50.0	Averaged	
1,1,1,2-Tetrachloroethane	0.275	0.207	0.207	0.100	24.7	50.0	Averaged	
Ethylbenzene	50.0	37.7	0.299	0.100	24.6	50.0	Quadratic	
m,p-Xylenes	100	74.7	0.383	0.100	25.3	50.0	Quadratic	
o-Xylene	50.0	36.9	0.379	0.300	26.2	50.0	Linear	
Styrene	0.828	0.625	0.625	0.300	24.4	50.0	Averaged	
Bromoform	50.0	33.9	0.125	0.100	32.3	50.0	Quadratic	
Isopropylbenzene	1.19	0.911	0.911	0.100	23.7	50.0	Averaged	
1,1,2,2-Tetrachloroethane	0.831	0.560	0.560	0.300	32.7	50.0	Averaged	
69 4-Bromofluorobenzene	50.0	58.6	0.407	0.100	-17.223	50.0	Linear	
1,2,3-Trichloropropane	0.779	0.532	0.532	0.100	31.8	50.0	Averaged	
trans-1,4-Dichloro-2-butene	0.085	0.054	0.054	0.050	37.0	50.0	Averaged	
n-Propylbenzene	2.69	1.92	1.92	0.100	28.7	50.0	Averaged	

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP Site 50

Workorder HS24051300

RunID W052818.D

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID VOA9.i
Lab File ID W052818.D
Analysis Type WATER
Lab Sample ID CCV

Injection Date 30-MAY-2024 0918
ICAL Date(s) 29-MAY-2024, 29-MAY-2024
ICAL Times 10:39, 13:53
Quant Type ISTD

Compound	RRF / RRF / Conc	RF50 / RF50	CCV RRF50	Min RRF	%D / %D / %DRIFT	Max %D / %D / %DRIFT	Curve CURVE TYPE	Q
Bromobenzene	0.688	0.473	0.473	0.100	31.2	50.0	Averaged	
1,3,5-Trimethylbenzene	50.0	36.9	1.35	0.100	26.3	50.0	Quadratic	
2-Chlorotoluene	50.0	38.3	1.20	0.100	23.5	10.0	Quadratic	*
4-Chlorotoluene	1.93	1.38	1.38	0.100	28.4	50.0	Averaged	
tert-Butylbenzene	1.51	1.17	1.17	0.100	22.8	50.0	Averaged	
1,2,4-Trimethylbenzene	50.0	35.1	1.33	0.100	29.8	50.0	Quadratic	
sec-Butylbenzene	2.05	1.54	1.54	0.100	24.8	50.0	Averaged	
p-Isopropyltoluene	1.79	1.33	1.33	0.100	25.5	50.0	Averaged	
1,3-Dichlorobenzene	1.16	0.868	0.868	0.600	25.3	50.0	Averaged	
1,4-Dichlorobenzene	1.29	0.868	0.868	0.400	32.5	50.0	Averaged	
Benzyl Chloride	50.0	17.0	0.128	0.010	66.0	50.0	Quadratic	*
n-Butylbenzene	50.0	34.6	1.10	0.500	30.7	50.0	Quadratic	
1,2-Dichlorobenzene	1.20	0.868	0.868	0.400	27.9	50.0	Averaged	
1,2-Dibromo-3-Chloropropane	50.0	32.5	0.067	0.050	35.0	50.0	Quadratic	
1,2,4-Trichlorobenzene	0.758	0.503	0.503	0.200	33.7	50.0	Averaged	
Hexachlorobutadiene	0.304	0.205	0.205	0.100	32.6	50.0	Averaged	
Naphthalene	50.0	35.3	1.29	0.200	29.4	50.0	Quadratic	
1,2,3-Trichlorobenzene	0.706	0.489	0.489	0.100	30.7	50.0	Averaged	
Methyl Acetate	50.0	39.9	0.315	0.100	20.2	50.0	Linear	
Freon TF	50.0	37.2	0.205	0.100	25.5	50.0	Quadratic	
Cyclohexane	50.0	38.6	0.367	0.100	22.8	50.0	Quadratic	
Tetrahydrofuran	100	92.2	0.066	0.001	7.85	50.0	Quadratic	
Methylcyclohexane	50.0	43.6	0.536	0.100	12.8	50.0	Quadratic	
1,4-Dioxane	1000	795	0.004	0.001	20.5	50.0	Quadratic	
n-Butanol	0.013	0.010	0.010	0.005	27.2	50.0	Averaged	
n-Hexane	50.0	29.3	0.191	0.100	41.4	50.0	Quadratic	
Diethyl ether	50.0	46.3	0.243	0.100	7.40	50.0	Quadratic	
Tert-butyl alcohol	1000	854	0.029	0.005	14.6	50.0	Quadratic	
Isopropyl alcohol	1000	863	0.023	0.005	13.7	50.0	Quadratic	
Amyl alcohol	1000	804	0.009	0.005	19.6	50.0	Quadratic	
Diisopropyl ether	1.28	1.07	1.07	0.100	15.9	50.0	Averaged	
Butyl acrylate	50.0	40.4	0.429	0.100	19.2	50.0	Quadratic	
n-Amyl acetate	0.543	0.384	0.384	0.100	29.3	50.0	Averaged	
Dicyclopentadiene	2.56	2.15	2.15	0.100	16.2	50.0	Averaged	

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP Site 50

Workorder HS24051300

RunID W052818.D

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID VOA9.i
Lab File ID W052818.D
Analysis Type WATER
Lab Sample ID CCV

Injection Date 30-MAY-2024 0918
ICAL Date(s) 29-MAY-2024, 29-MAY-2024
ICAL Times 10:39, 13:53
Quant Type ISTD

Compound	RRF / RRF / Conc	RF50 / RF50	CCV RRF50	Min RRF	%D / %D / %DRIFT	Max %D / %D / %DRIFT	Curve CURVE TYPE	Q
1,2,3-Trimethylbenzene	50.0	41.3	1.44	0.100	17.3	50.0	Linear	
Ethanol	1000	919	0.005	0.001	8.09	50.0	Quadratic	
tert-Butyl formate	0.395	0.293	0.293	0.100	25.8	50.0	Averaged	
3,3-Dimethyl-1-butanol	0.035	0.026	0.026	0.005	24.6	50.0	Averaged	
tert-Amyl methyl ether	1.17	0.977	0.977	0.005	16.5	50.0	Averaged	
tert-Butyl ethyl ether	1.14	0.914	0.914	0.100	20.1	50.0	Averaged	
tert-Amyl alcohol	0.040	0.029	0.029	0.005	26.6	50.0	Averaged	
4-Methyl-2-pentanol	1000	864	0.070	0.005	13.6	50.0	Quadratic	
1,3-Butadiene	0.185	0.137	0.137	0.100	26.1	50.0	Averaged	
Epichlorohydrin	200	162	0.014	0.001	19.1	50.0	Quadratic	
94 1,2-Dichloroethylene (total	0.417	0.286	0.286	0.200	31.3	50.0	Averaged	
95 Xylenes (total)	150	++++	0.351	0.100	++++	50.0	Quadratic	*
alpha-Methylstyrene	50.0	35.5	0.537	0.100	28.9	50.0	Quadratic	
Ethyl Acetate	0.461	0.338	0.338	0.100	26.6	50.0	Averaged	
Methyl Acrylate	50.0	43.8	0.403	0.100	12.3	50.0	Quadratic	
n-Butyl acetate	0.525	0.366	0.366	0.100	30.2	50.0	Averaged	
Cyclohexanone	1000	606	0.017	0.005	39.4	50.0	Quadratic	
Isoprene	50.0	40.7	0.064	0.010	18.6	50.0	Quadratic	
Isopropyl acetate	0.830	0.647	0.647	0.100	22.0	50.0	Averaged	
Allyl alcohol	1000	586	0.010	0.004	41.4	50.0	Quadratic	
Acetaldehyde	200	242	0.101	0.001	-20.804	50.0	Quadratic	
Methyl Amyl Ketone	0.609	0.486	0.486	0.100	20.3	50.0	Averaged	
Dimethyl Disulfide	50.0	31.3	0.143	0.020	37.4	50.0	Quadratic	
Isobutylene	++++	++++	8.246e+60	0.010	++++	50.0	Quadratic	*
Ethyl Acrylate	50.0	43.6	0.770	0.100	12.8	50.0	Quadratic	
Butyl methacrylate	0.579	0.461	0.461	0.100	20.4	50.0	Averaged	
Propylene oxide	100	87.8	0.025	0.005	12.2	50.0	Quadratic	
2-Ethylhexyl Acrylate	50.0	40.8	0.500	0.100	18.3	50.0	Quadratic	

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Form 8

Internal Standard Area and RT Summary

<textMethods>

Workorder

HS24051300

Client

Bhate Environmental Associates, Inc.

Project

LHAAP Site 50

06/22/2024

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 50

Workorder HS24051300

EPA SW8260

VOA9_467761		Pentafluorobenzene				1,4 Difluorobenzene				Chlorobenzene d5				1,4-Dichlorobenzene d4			
Sample ID	File ID	Area	#	RT	#	Area	#	RT	#	Area	#	RT	#	Area	#	RT	#
12-HOUR STD (CCV)	U052402.D	250537	#	4.82	#	360480	#	5.55	#	326475	#	8.19	#	177240	#	10.17	#
HS24051300-01	U052415.D	239579		4.82		352280		5.55		321306		8.19		164729		10.17	
HS24051300-02	U052416.D	234984		4.82		348976		5.55		312364		8.18		158760		10.17	
HS24051300-03	U052417.D	236455		4.81		349559		5.55		318020		8.18		158463		10.17	
HS24051300-06	U052421.D	197825		4.82		285486		5.55		256998		8.18		128779		10.17	
HS24051300-10	U052413.D	233840		4.82		345388		5.55		311247		8.18		155252		10.17	
VBLKW-240524	U052406.D	246217		4.81		360374		5.55		327810		8.18		167574		10.17	
VLCSDW-240524	U052404.D	247860		4.81		366459		5.55		328317		8.18		176750		10.17	
VLCSW-240524	U052403.D	248200		4.81		359699		5.55		318485		8.19		167134		10.17	

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

RT UPPER LIMIT = + 0.50 of STD IS RT
RT LOWER LIMIT = - 0.50 of 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 50

Workorder HS24051300

EPA SW8260

VOA9_468007		Pentafluorobenzene				1,4 Difluorobenzene				Chlorobenzene d5				1,4-Dichlorobenzene d4			
Sample ID	File ID	Area	#	RT	#	Area	#	RT	#	Area	#	RT	#	Area	#	RT	#
12-HOUR STD (CCV)	W052802.D	248318	#	4.81	#	358648	#	5.55	#	323257	#	8.18	#	176531	#	10.17	#
HS24051300-04	W052813.D	243863		4.81		357970		5.55		323370		8.18		165984		10.17	
HS24051300-05	W052814.D	237453		4.82		348003		5.55		318608		8.18		161186		10.17	
HS24051300-07	W052815.D	242530		4.81		357783		5.55		329091		8.18		164895		10.17	
HS24051300-08	W052816.D	240842		4.81		356787		5.55		322510		8.18		160504		10.17	
HS24051300-09	W052817.D	235797		4.81		350002		5.55		312736		8.18		158908		10.17	
VBLKW-240529	W052806.D	239080		4.82		352784		5.55		319606		8.19		164930		10.17	
VLCSW-240529	W052803.D	241851		4.81		356245		5.55		322541		8.18		174869		10.17	
MS-ZZZZZZMS	W052809.D	247550		4.82		361014		5.55		331461		8.19		180029		10.17	
ZZZZZZMSD	W052810.D	247217		4.82		360242		5.55		325962		8.18		174964		10.17	

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

RT UPPER LIMIT = + 0.50 of STD IS RT
RT LOWER LIMIT = - 0.50 of 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 Volatiles Organics by Method 8260C

Workorder

HS24051300

Client

Bhate Environmental Associates, Inc.

Project

LHAAP Site 50

06/22/2024

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 Bhate Environmental Associates, Inc.

Project LHAAP Site 50

Workorder **HS24051300**

Volatiles by EPA Volatiles Organics by Method 8260C

RUNID VOA9-467470

Run ID VOA9_467470 **Start Date** 05/22/24 **EndDate** 05/23/24

Inj. Time	Client Sample ID	Type	Lab Sample ID	File ID	Analysis Date	DF
20:22	VSTD00.25	ICAL1	VSTD00.25	V052202.D	05/22/24	1
20:44	VSTD00.5	ICAL2	VSTD00.5	V052203.D	05/22/24	1
21:05	VSTD001	ICAL3	VSTD001	V052204.D	05/22/24	1
21:27	VSTD002	ICAL4	VSTD002	V052205.D	05/22/24	1
21:48	VSTD005	ICAL5	VSTD005	V052206.D	05/22/24	1
22:10	VSTD020	ICAL6	VSTD020	V052207.D	05/22/24	1
22:31	VSTD050	ICAL7	VSTD050	V052208.D	05/22/24	1
22:53	VSTD100	ICAL8	VSTD100	V052209.D	05/22/24	1
23:14	VSTD150	ICAL9	VSTD150	V052210.D	05/22/24	1
23:36	VSTD200	ICAL	VSTD200	V052211.D	05/22/24	1
00:40	VSTD050	ICV	VSTD050	V052214.D	05/23/24	1

Form 13 - Analysis Run Log

Client Bhate Environmental Associates, Inc.

Project LHAAP Site 50

Workorder **HS24051300**

Volatiles by EPA Volatiles Organics by Method 8260C

RUNID VOA9-467761

Run ID VOA9_467761 **Start Date** 05/24/24 **EndDate** 05/24/24

Inj. Time	Client Sample ID	Type	Lab Sample ID	File ID	Analysis Date	DF
12:52	VSTD050	CCV	VSTD050	U052402.D	05/24/24	1
13:13	VLCSW-240524	LCS	VLCSW-240524	U052403.D	05/24/24	1
13:35	VLCSDW-240524	LCSD	VLCSDW-240524	U052404.D	05/24/24	1
14:18	VBLKW-240524	MBLK	VBLKW-240524	U052406.D	05/24/24	1
16:05	HS24051276-03	SAMP	ZZZZZZZZZZ	U052411.D	05/24/24	1
16:27	HS24051277-02	SAMP	ZZZZZZZZZZ	U052412.D	05/24/24	1
16:49	HS24051300-10	SAMP	Trip Blank_052124	U052413.D	05/24/24	1
17:10	HS24051276-01	SAMP	ZZZZZZZZZZ	U052414.D	05/24/24	1
17:32	HS24051300-01	SAMP	50WW16_052024	U052415.D	05/24/24	1
17:53	HS24051300-02	SAMP	50WW18_052024	U052416.D	05/24/24	1
18:15	HS24051300-03	SAMP	50WW22_052024	U052417.D	05/24/24	1
19:20	HS24051228-01	SAMP	ZZZZZZZZZZ	U052420.D	05/24/24	5000
19:44	HS24051300-06	SAMP	50WW13_052124	U052421.D	05/24/24	5
20:08	HS24051277-01	SAMP	ZZZZZZZZZZ	U052422.D	05/24/24	25
22:38	VSTD050	CCV_END	VSTD050	U052429.D	05/24/24	1

Form 13 - Analysis Run Log

Client Bhate Environmental Associates, Inc.

Project LHAAP Site 50

Workorder **HS24051300**

Volatiles by EPA Volatiles Organics by Method 8260C

RUNID VOA9-467989

Run ID VOA9_467989 **Start Date** 05/29/24 **EndDate** 05/29/24

Inj. Time	Client Sample ID	Type	Lab Sample ID	File ID	Analysis Date	DF
10:39	VSTD00.25	ICAL1	VSTD00.25	U052902.D	05/29/24	1
11:00	VSTD00.5	ICAL2	VSTD00.5	U052903.D	05/29/24	1
11:22	VSTD001	ICAL3	VSTD001	U052904.D	05/29/24	1
11:43	VSTD002	ICAL4	VSTD002	U052905.D	05/29/24	1
12:05	VSTD005	ICAL5	VSTD005	U052906.D	05/29/24	1
12:26	VSTD020	ICAL6	VSTD020	U052907.D	05/29/24	1
12:48	VSTD050	ICAL7	VSTD050	U052908.D	05/29/24	1
13:10	VSTD100	ICAL8	VSTD100	U052909.D	05/29/24	1
13:31	VSTD150	ICAL9	VSTD150	U052910.D	05/29/24	1
13:53	VSTD200	ICAL	VSTD200	U052911.D	05/29/24	1
14:58	VSTD050	ICV	VSTD050	U052914.D	05/29/24	1

Form 13 - Analysis Run Log

Client Bhate Environmental Associates, Inc.

Project LHAAP Site 50

Workorder **HS24051300**

Volatiles by EPA Volatiles Organics by Method 8260C

RUNID VOA9-468007

Run ID VOA9_468007 **Start Date** 05/30/24 **EndDate** 05/30/24

Inj. Time	Client Sample ID	Type	Lab Sample ID	File ID	Analysis Date	DF
03:28	VSTD050	CCV	VSTD050	W052802.D	05/30/24	1
03:50	VLCSW-240529	LCS	VLCSW-240529	W052803.D	05/30/24	1
04:55	VBLKW-240529	MBLK	VBLKW-240529	W052806.D	05/30/24	1
05:38	HS24051490-03	SAMP	ZZZZZZZZZZ	W052808.D	05/30/24	1
05:59	HS24051490-03MS	MS	ZZZZZZMS	W052809.D	05/30/24	1
06:21	HS24051490-03MSD	MSD	ZZZZZZMSD	W052810.D	05/30/24	1
07:31	HS24051300-04	SAMP	50WW15_052024	W052813.D	05/30/24	1
07:52	HS24051300-05	SAMP	50WW14_052124	W052814.D	05/30/24	1
08:13	HS24051300-07	SAMP	50WW11_052124	W052815.D	05/30/24	1
08:35	HS24051300-08	SAMP	50WW05_052124	W052816.D	05/30/24	1
08:56	HS24051300-09	SAMP	50WW29_052124	W052817.D	05/30/24	1
09:18	CCV	CCV_END	CCV	W052818.D	05/30/24	1

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RawData

<textMethods>

Workorder

HS24051300

Client

Bhate Environmental Associates, Inc.

Project

LHAAP Site 50

06/22/2024

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\voa9.i\U240523.b\V052201.D Page 1
Report Date: 23-May-2024 09:01

ALS Laboratory Group

Data file : \\nahstws005\Target\chem\voa9.i\U240523.b\V052201.D
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 22-MAY-2024 20:01
Operator : FT Inst ID: VOA9.i
Smp Info : BFB;BFB;3;;BFB
Misc Info : V9;WATER;0;1;
Comment :
Method : \\nahstws005\Target\chem\voa9.i\U240523.b\bfb.m
Meth Date : 27-Jan-2023 08:08 apoluri Quant Type: ISTD
Cal Date : 30-MAR-2018 18:09 Cal File: U033003.d
Als bottle: 28 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: NAHSTW7066

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	FINAL		
RT	EXP RT	REL RT	MASS	RESPONSE	(ug/L)	(ug/l)	TARGET RANGE	RATIO
1 bfb						CAS #: 460-00-4		
9.194	9.180	(0.000)	95	63648			0.00- 100.00	100.00
9.194	9.180	(0.000)	50	11622			15.00- 40.00	18.26
9.194	9.180	(0.000)	75	30160			30.00- 60.00	47.39
9.194	9.180	(0.000)	96	4229			5.00- 9.00	6.64
9.194	9.180	(0.000)	173	0	0.0	0.0	0.00- 2.00	0.00
9.194	9.180	(0.000)	174	59736			50.00- 0.00	93.85
9.194	9.180	(0.000)	175	5276			5.00- 9.00	8.83
9.194	9.180	(0.000)	176	58936			95.00- 101.00	98.66
9.194	9.180	(0.000)	177	3743			5.00- 9.00	6.35

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	18.26
75	30.00 - 60.00% of mass 95	47.39
96	5.00 - 9.00% of mass 95	6.64
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	93.85
175	5.00 - 9.00% of mass 174	8.29 (8.83)
176	95.00 - 101.00% of mass 174	92.60 (98.66)
177	5.00 - 9.00% of mass 176	5.88 (6.35)

Data File: V052201.D
Spectrum: Scan 2296 (9.20)
Location of Maximum: 95.05
Number of points: 84

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	563	63.00	2132	92.00	1742	140.90	612
37.10	3027	63.90	318	93.00	2576	141.90	135
38.00	2791	65.00	268	94.00	7830	142.90	699
39.00	1025	68.00	6225	95.00	63648	144.80	92
40.00	186	69.00	6319	96.00	4229	145.80	122
41.10	53	69.90	501	97.00	136	147.90	183
44.00	463	71.30	52	103.90	256	150.00	85
45.00	614	72.10	380	104.80	101	153.00	57
47.00	1051	73.00	2741	106.00	242	154.90	181
47.90	438	74.00	10686	106.80	79	156.90	128
49.00	2566	75.00	30160	109.90	67	158.80	109
50.00	11622	76.00	2524	110.90	84	160.60	56
51.00	3643	76.90	423	115.80	213	171.90	389
52.00	158	77.80	228	116.90	487	173.90	59736
52.90	56	78.90	1553	117.80	250	175.10	5276
55.00	170	80.00	493	118.80	372	175.90	58936
56.00	949	80.90	1680	127.90	266	176.90	3743
57.00	1780	81.90	355	128.80	142	177.80	82
58.00	93	83.10	60	130.00	270		
60.00	596	87.00	3069	130.80	83		
61.00	2733	88.00	2717	134.90	108		
62.00	2666	91.00	242	136.90	76		

Data File: \\NAHSTWS005\Target\chem\voa9.i\u240523.b\v052201.d Page 1

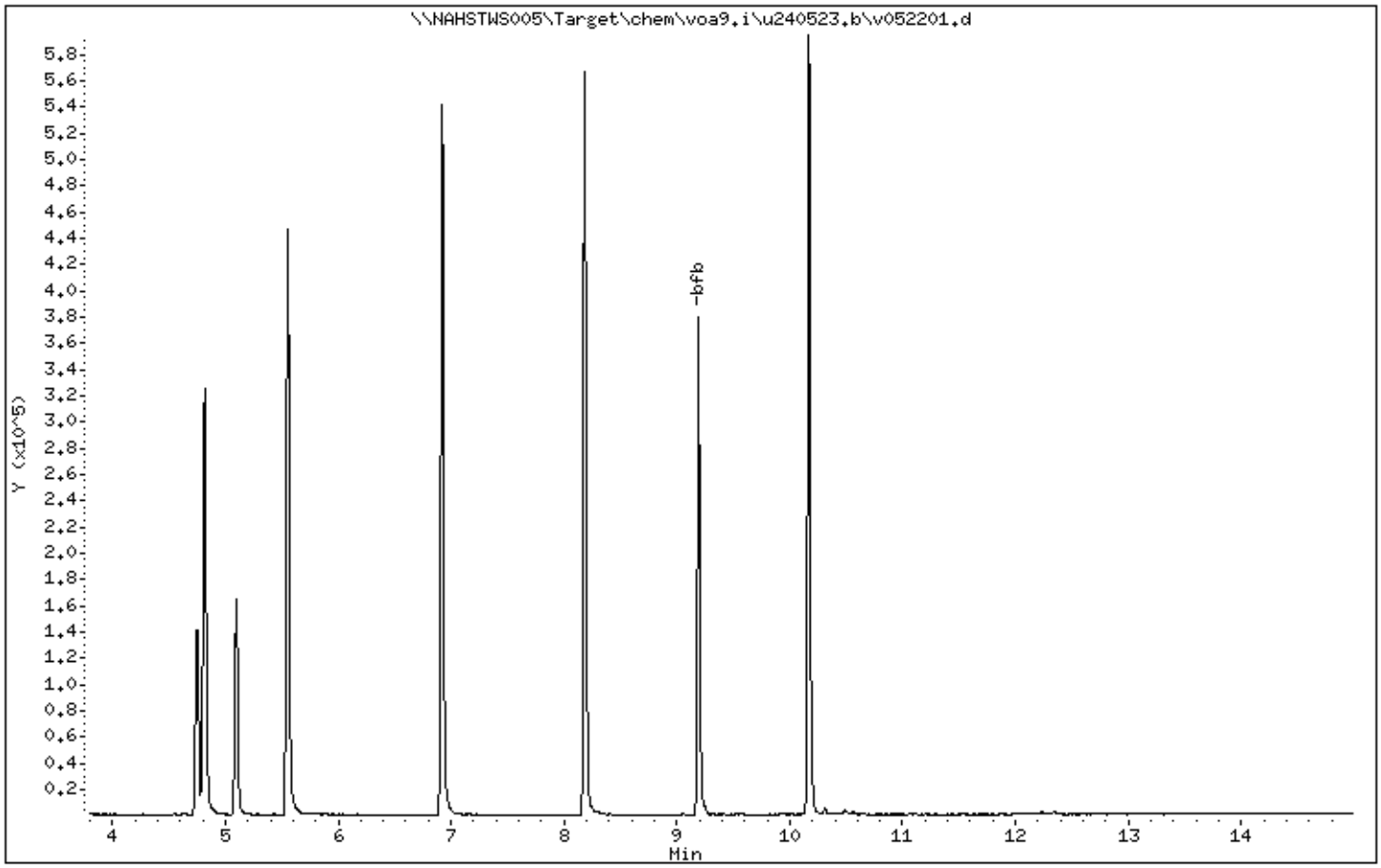
Date : 22-MAY-2024 20:01

Client ID: BFB Instrument: VOA9.i

Sample Info: BFB;BFB;3;;BFB

Volume Injected (uL): 2.0 Operator: FT

Column phase: DB624 Column diameter: 0.25



Data File : \\nahstws005\target\chem\voa9.i\u240523.b\v052201.d
Inj Date : 22-MAY-2024 20:01
InstruID : VOA9.i
LabSampID : BFB

NO MANUAL INTEGRATIONS

Data File: \\nahstws005\Target\chem\voa9.i\U240523.b\V052202.D Page 1
Report Date: 23-May-2024 09:51

ALS Laboratory Group

Data file : \\nahstws005\Target\chem\voa9.i\U240523.b\V052202.D
Lab Smp Id: VSTD00.25 Client Smp ID: VSTD00.25
Inj Date : 22-MAY-2024 20:22
Operator : FT Inst ID: VOA9.i
Smp Info : VSTD00.25;VSTD00.25;1;1
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240523.b\8260C.m
Meth Date : 23-May-2024 09:51 VOA9.i Quant Type: ISTD
Cal Date : 22-MAY-2024 23:36 Cal File: V052211.D
Als bottle: 29 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7066

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

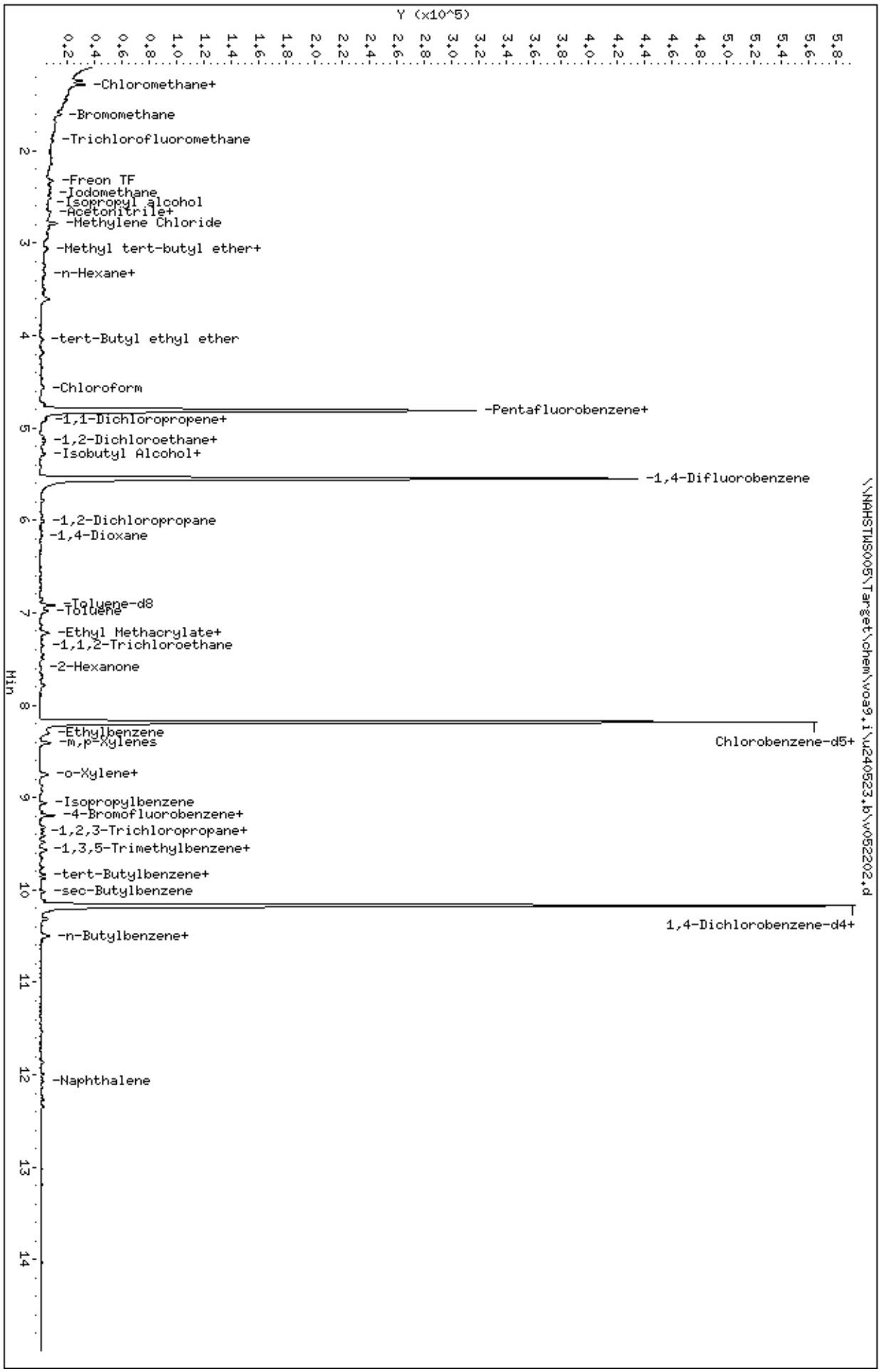
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
*	1 Pentafluorobenzene	168	4.811	4.811	(1.000)	232479	50.0000	
	2 Dichlorodifluoromethane	85	1.007	1.007	(0.209)	10432	0.25000	8.41
	3 Chloromethane	50	1.288	1.288	(0.268)	8247	0.25000	1.14
	5 Vinyl Chloride	62	1.370	1.370	(0.285)	918	0.25000	0.43(a)
	6 Bromomethane	94	1.610	1.610	(0.335)	1392	0.25000	1.20
	8 Trichlorofluoromethane	101	1.884	1.884	(0.392)	1078	0.25000	0.44(a)
	12 Isobutyl Alcohol	43	5.284	5.284	(1.098)	1728	5.00000	6.15(a)
	13 Acetonitrile	39	2.667	2.667	(0.554)	837	2.50000	4.35(a)
	14 Allyl Chloride	41	2.663	2.663	(0.554)	1717	0.25000	0.34(a)
	15 Iodomethane	142	2.457	2.457	(0.511)	1022	0.50000	2.34(T)
	17 Methylene Chloride	84	2.783	2.783	(0.579)	3291	0.25000	1.14
	18 Methyl tert-butyl ether	73	3.076	3.076	(0.639)	1715	0.25000	0.36(a)
	20 trans-1,2-Dichloroethene	96	3.053	3.053	(0.635)	695	0.25000	0.41(Ta)
	28 Chloroform	83	4.568	4.568	(0.949)	1332	0.25000	0.39(a)
$	30 Dibromofluoromethane	113	4.744	4.744	(0.986)	1338	0.25000	0.79
	31 1,1,1-Trichloroethane	97	4.736	4.736	(0.984)	914	0.25000	0.39(a)
	32 1,1-Dichloropropene	75	4.916	4.916	(0.886)	1320	0.25000	0.53
	33 1,2-Dichloroethane	62	5.171	5.171	(0.932)	1065	0.25000	0.39(a)
	34 Carbon Tetrachloride	117	4.901	4.901	(0.884)	654	0.25000	0.32(a)
$	35 1,2-Dichloroethane-d4	65	5.096	5.096	(1.059)	1960	50.0000	0.92(T)

*	36 1,4-Difluorobenzene	114	5.546	5.546 (1.000)	346650	50.0000	
	37 Benzene	78	5.134	5.134 (0.926)	3079	0.25000	0.38(a)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	42 1,2-Dichloropropane	63	6.011	6.011	(1.084)	948	0.25000	0.43(a)
*	47 Chlorobenzene-d5	117	8.182	8.182	(1.000)	307836	50.0000	
$	48 Toluene-d8	98	6.918	6.918	(0.846)	6724	50.0000	1.07(a)
	49 Ethyl Methacrylate	69	7.218	7.218	(1.301)	731	0.25000	0.28(a)
	50 Toluene	91	6.978	6.978	(0.853)	3474	0.25000	0.44(a)
	52 2-Hexanone	43	7.597	7.597	(0.929)	973	0.50000	0.68(Ta)
	53 1,1,2-Trichloroethane	83	7.353	7.353	(0.899)	605	0.25000	0.39(a)
	58 1-Chlorohexane	55	8.182	8.182	(1.475)	3533	0.25000	1.27(a)
	59 Chlorobenzene	112	8.208	8.208	(1.003)	2246	0.25000	0.42(a)
	61 Ethylbenzene	106	8.305	8.305	(1.015)	1076	0.25000	0.43(a)
	62 m,p-Xylenes	106	8.410	8.410	(1.028)	2145	0.50000	0.70(a)
	63 o-Xylene	106	8.744	8.744	(1.069)	1112	0.25000	0.37(a)
	64 Styrene	104	8.763	8.763	(1.071)	1442	0.25000	0.28(a)
	67 Isopropylbenzene	105	9.059	9.059	(1.107)	2545	0.25000	0.34(a)
$	69 4-Bromofluorobenzene	95	9.194	9.194	(1.124)	3188	50.0000	1.33(a)
*	70 1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	154174	50.0000	
	71 1,2,3-Trichloropropane	75	9.359	9.359	(0.920)	859	0.25000	0.36(a)
	73 n-Propylbenzene	91	9.415	9.415	(0.926)	3118	0.25000	0.39(a)
	74 Bromobenzene	156	9.317	9.317	(0.916)	807	0.25000	0.39(a)
	75 1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	1792	0.25000	0.32(a)
	76 2-Chlorotoluene	91	9.482	9.482	(0.933)	1993	0.25000	0.38(a)
	77 4-Chlorotoluene	91	9.576	9.576	(0.942)	2268	0.25000	0.38(a)
	78 tert-Butylbenzene	119	9.835	9.835	(0.967)	1705	0.25000	0.35(a)
	79 1,2,4-Trimethylbenzene	105	9.876	9.876	(0.971)	1840	0.25000	0.32(a)
	81 sec-Butylbenzene	105	10.022	10.022	(0.986)	2367	0.25000	0.36(a)
	82 p-Isopropyltoluene	119	10.142	10.142	(0.997)	1945	0.25000	0.34(a)
	83 1,3-Dichlorobenzene	146	10.187	10.187	(1.002)	1976	0.25000	0.54(a)
	84 1,4-Dichlorobenzene	146	10.187	10.187	(1.002)	1976	0.25000	0.48(a)
	87 n-Butylbenzene	91	10.491	10.491	(1.032)	2454	0.25000	0.45(a)
	88 1,2-Dichlorobenzene	146	10.506	10.506	(1.033)	1467	0.25000	0.39(a)
	92 Naphthalene	128	12.073	12.073	(1.187)	1592	0.25000	0.32(a)
	138 Freon TF	101	2.326	2.326	(0.483)	798	0.25000	0.31(a)
	141 Cyclohexane	56	4.808	4.808	(0.999)	5173	0.25000	1.22(a)
	135 1,4-Dioxane	88	6.176	6.176	(1.284)	280	5.00000	10.63(aM)
	136 n-Hexane	57	3.331	3.331	(0.692)	905	0.25000	0.49(a)
	149 Isopropyl alcohol	45	2.558	2.558	(0.532)	1185	5.00000	10.63(T)
	166 1,2,3-Trimethylbenzene	105	10.232	10.232	(1.006)	1772	0.25000	0.33(a)
	174 tert-Amyl methyl ether	73	5.276	5.276	(1.097)	1715	0.25000	0.33(Ta)
	175 tert-Butyl ethyl ether	59	4.035	4.035	(0.839)	1741	0.25000	0.33(a)
	176 tert-Amyl alcohol	59	5.239	5.239	(1.089)	904	5.00000	6.78
	151 4-Methyl-2-pentanol	45	7.218	7.218	(1.301)	3849	5.00000	7.42
M	94 1,2-Dichloroethylene (total)	96				695	0.50000	(a)
	134 Cyclohexanone	55	9.152	9.152	(0.900)	673	5.00000	7.55(Ta)
	150 Allyl alcohol	57	3.331	3.331	(0.692)	905	5.00000	9.95

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\voa9.i\u240523.b\v052202.d
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Client ID: VSTD00.25
Sample Info: VSTD00.25;VSTD00.25;1;1
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9.i
Operator: FT
Column diameter: 0.18

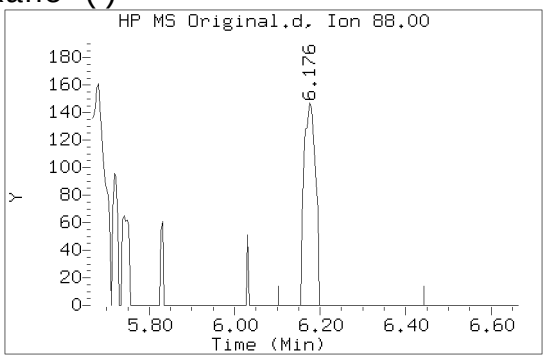
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InstruID : VOA9.i
LabSampID : VSTD00.25

1,4-Dioxane ()

Reason Code:

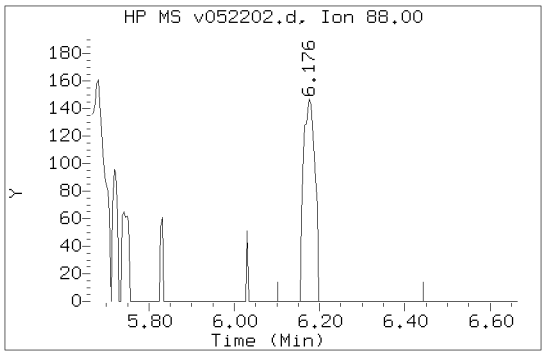
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HEIGHT
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23-May-2024
09:51
firat
tastan



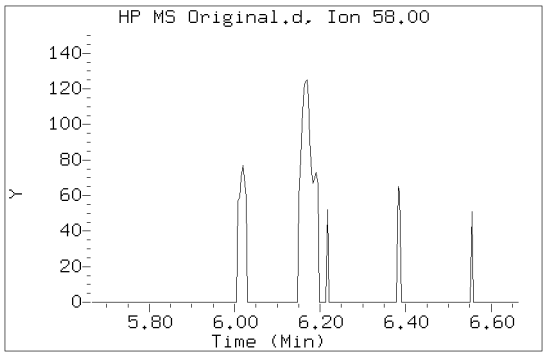
AFTER

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23-May-2024
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tastan



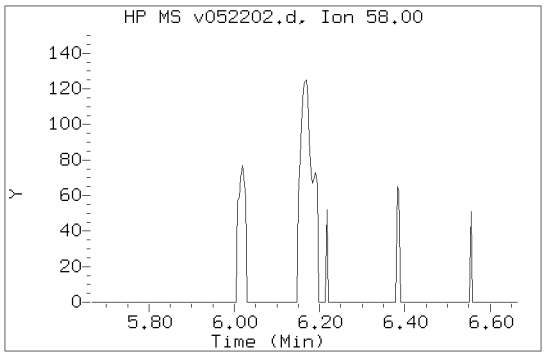
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23-May-2024
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AFTER

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23-May-2024
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tastan



Data File: \\nahstws005\Target\chem\voa9.i\U240523.b\V052203.D Page 1
Report Date: 23-May-2024 09:51

ALS Laboratory Group

Data file : \\nahstws005\Target\chem\voa9.i\U240523.b\V052203.D
Lab Smp Id: VSTD00.5 Client Smp ID: VSTD00.5
Inj Date : 22-MAY-2024 20:44
Operator : FT Inst ID: VOA9.i
Smp Info : VSTD00.5;VSTD00.5;1;2
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240523.b\8260C.m
Meth Date : 23-May-2024 09:51 VOA9.i Quant Type: ISTD
Cal Date : 22-MAY-2024 20:22 Cal File: V052202.D
Als bottle: 30 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7066

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	4.815	4.815	(1.000)	232568	50.0000	
2	Dichlorodifluoromethane	85	1.168	1.168	(0.243)	744	0.50000	0.59(M)
3	Chloromethane	50	1.299	1.299	(0.270)	9635	0.50000	1.33
4	Propionitrile	54	4.350	4.350	(0.903)	1689	5.00000	5.74(aM)
5	Vinyl Chloride	62	1.381	1.381	(0.287)	1278	0.50000	0.60
6	Bromomethane	94	1.621	1.621	(0.337)	1387	0.50000	1.20
7	Chloroethane	64	1.704	1.704	(0.354)	863	0.50000	0.59(M)
8	Trichlorofluoromethane	101	1.899	1.899	(0.394)	1363	0.50000	0.56
9	Acrolein	56	2.281	2.281	(0.474)	256	1.00000	2.11(aM)
10	Acetone	43	2.412	2.412	(0.501)	2401	1.00000	2.86
11	1,1-Dichloroethene	96	2.334	2.334	(0.485)	799	0.50000	0.54(M)
12	Isobutyl Alcohol	43	5.284	5.284	(1.097)	3376	10.0000	12.02(Ta)
13	Acetonitrile	39	2.675	2.675	(0.555)	1051	5.00000	5.47(a)
14	Allyl Chloride	41	2.675	2.675	(0.555)	3162	0.50000	0.63(a)
15	Iodomethane	142	2.468	2.468	(0.513)	972	1.00000	2.22(T)
16	Acrylonitrile	53	3.072	3.072	(0.638)	887	1.00000	1.20
17	Methylene Chloride	84	2.798	2.798	(0.581)	3393	0.50000	1.17
18	Methyl tert-butyl ether	73	3.083	3.083	(0.640)	2576	0.50000	0.55
19	Carbon Disulfide	76	2.525	2.525	(0.524)	5214	1.00000	1.17
20	trans-1,2-Dichloroethene	96	3.065	3.065	(0.636)	1021	0.50000	0.60

21 Vinyl Acetate	43	4.347	4.347 (0.903)	1730	1.00000	1.50(M)
22 1,1-Dichloroethane	63	3.514	3.514 (0.730)	2200	0.50000	0.65(T)

Data File: \\nahstws005\Target\chem\voa9.i\U240523.b\V052203.D Page 2
Report Date: 23-May-2024 09:51

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
23	Chloroprene	53	3.608	3.608	(0.749)	1472	0.50000	0.57(aM)
24	2-Butanone	43	4.283	4.283	(0.889)	1551	1.00000	1.43(M)
25	Methacrylonitrile	41	4.512	4.512	(0.937)	666	0.50000	0.54(aM)
26	2,2-Dichloropropane	77	4.178	4.178	(0.868)	1245	0.50000	0.60(M)
27	cis-1,2-Dichloroethene	96	4.200	4.200	(0.872)	1145	0.50000	0.56
28	Chloroform	83	4.579	4.579	(0.951)	2029	0.50000	0.60
29	Bromochloromethane	128	4.467	4.467	(0.928)	572	0.50000	0.57(M)
$ 30	Dibromofluoromethane	113	4.751	4.751	(0.987)	1204	0.50000	0.71
31	1,1,1-Trichloroethane	97	4.740	4.740	(0.984)	1166	0.50000	0.49(a)
32	1,1-Dichloropropene	75	4.920	4.920	(0.886)	1600	0.50000	0.65
33	1,2-Dichloroethane	62	5.183	5.183	(0.933)	1661	0.50000	0.61
34	Carbon Tetrachloride	117	4.913	4.913	(0.885)	1115	0.50000	0.56
$ 35	1,2-Dichloroethane-d4	65	5.100	5.100	(1.059)	1807	0.50000	0.85(T)
* 36	1,4-Difluorobenzene	114	5.554	5.554	(1.000)	344705	50.0000	
37	Benzene	78	5.141	5.141	(0.926)	4963	0.50000	0.63
38	Trichloroethene	130	5.786	5.786	(1.042)	1137	0.50000	0.59(a)
39	Bromodichloromethane	83	6.277	6.277	(1.130)	1006	0.50000	0.47(aM)
40	Methyl Methacrylate	41	5.835	5.835	(1.212)	284	0.50000	0.39(aM)
41	2-Chloroethylvinyl ether	63	6.581	6.581	(1.185)	481	1.00000	0.71(aM)
42	1,2-Dichloropropane	63	6.011	6.011	(1.082)	1434	0.50000	0.65(a)
43	2-Nitropropane	43	6.510	6.510	(1.352)	138	0.50000	0.34(aM)
44	Dibromomethane	93	6.120	6.120	(1.102)	619	0.50000	0.52(a)
45	4-Methyl-2-Pentanone	43	6.854	6.854	(0.837)	2364	1.00000	1.11(a)
46	cis-1,3-Dichloropropene	75	6.693	6.693	(1.205)	1137	0.50000	0.46(aM)
* 47	Chlorobenzene-d5	117	8.185	8.185	(1.000)	307301	50.0000	
$ 48	Toluene-d8	98	6.922	6.922	(0.846)	5599	0.50000	0.89(a)
49	Ethyl Methacrylate	69	7.293	7.293	(1.313)	1247	0.50000	0.49(aM)
50	Toluene	91	6.982	6.982	(0.853)	4848	0.50000	0.62(a)
51	trans-1,3-Dichloropropene	75	7.199	7.199	(1.296)	806	0.50000	0.42(aM)
52	2-Hexanone	43	7.597	7.597	(0.928)	1763	1.00000	1.24(a)
53	1,1,2-Trichloroethane	83	7.357	7.357	(0.899)	940	0.50000	0.61(a)
54	1,3-Dichloropropane	76	7.499	7.499	(0.916)	1916	0.50000	0.59(aM)
55	Dibromochloromethane	129	7.690	7.690	(0.940)	646	0.50000	0.42(aM)
56	Tetrachloroethene	164	7.458	7.458	(0.911)	868	0.50000	0.59(a)
57	1,2-Dibromoethane	107	7.780	7.780	(0.951)	838	0.50000	0.50(a)
58	1-Chlorohexane	55	8.185	8.185	(1.474)	3782	0.50000	1.36(a)
59	Chlorobenzene	112	8.208	8.208	(1.003)	3466	0.50000	0.65(a)
60	1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	811	0.50000	0.50(a)
61	Ethylbenzene	106	8.305	8.305	(1.015)	1469	0.50000	0.59(a)
62	m,p-Xylenes	106	8.410	8.410	(1.027)	3456	1.00000	1.13(a)
63	o-Xylene	106	8.748	8.748	(1.069)	1659	0.50000	0.55(a)
64	Styrene	104	8.766	8.766	(1.071)	2610	0.50000	0.51(a)
66	Bromoform	173	8.916	8.916	(1.089)	392	0.50000	0.41(aM)
67	Isopropylbenzene	105	9.062	9.062	(1.107)	4153	0.50000	0.55(a)
68	1,1,2,2-Tetrachloroethane	83	9.329	9.329	(0.917)	1392	0.50000	0.57(aM)
$ 69	4-Bromofluorobenzene	95	9.194	9.194	(1.123)	2573	0.50000	1.07(a)
* 70	1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	157411	50.0000	
71	1,2,3-Trichloropropane	75	9.362	9.362	(0.921)	1521	0.50000	0.63(a)
72	trans-1,4-Dichloro-2-butene	53	9.381	9.381	(1.146)	267	0.50000	0.48(aM)
73	n-Propylbenzene	91	9.411	9.411	(0.926)	4473	0.50000	0.55(a)
74	Bromobenzene	156	9.317	9.317	(0.916)	1115	0.50000	0.53(a)
75	1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	3003	0.50000	0.53(a)

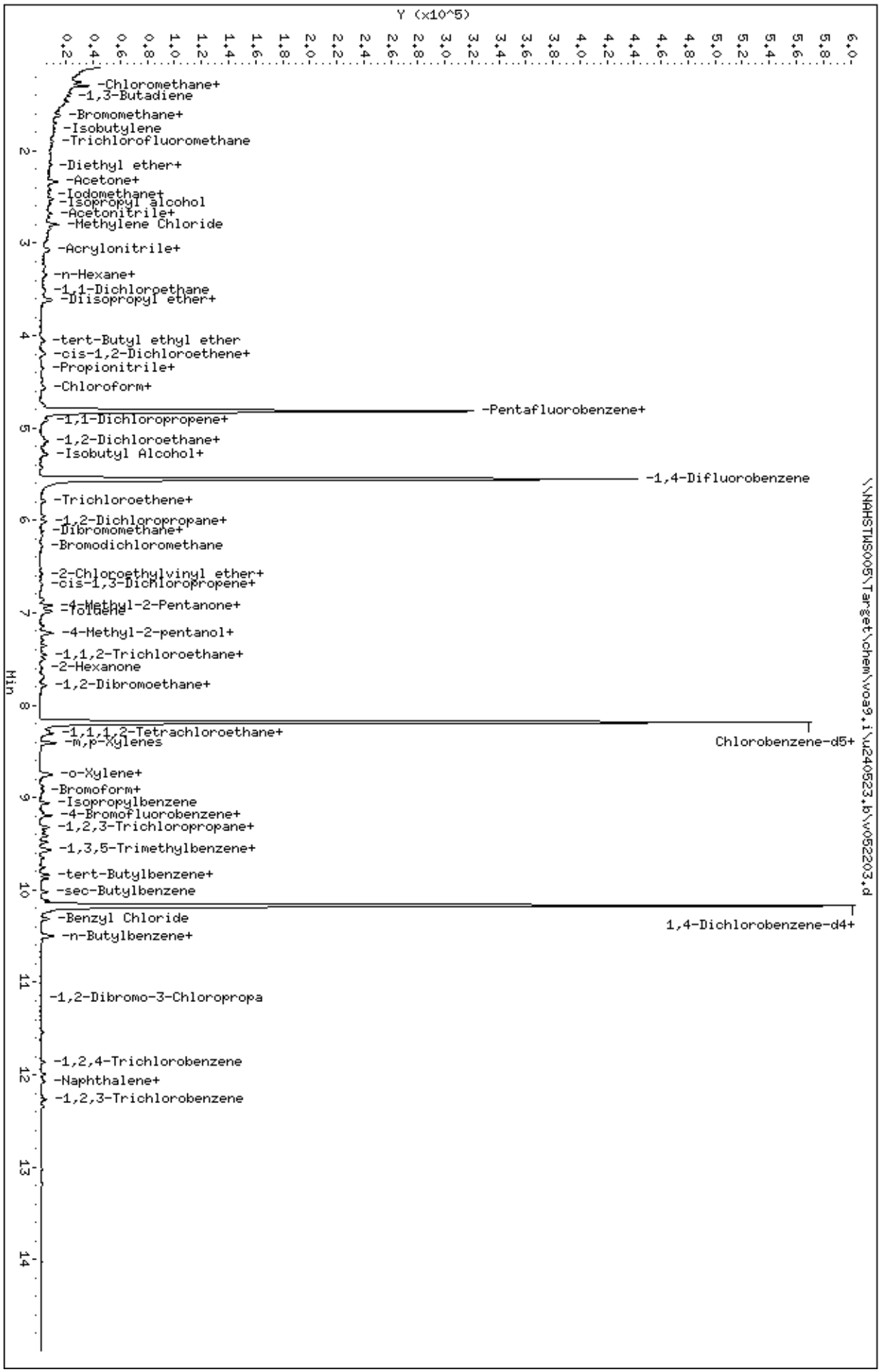
76	2-Chlorotoluene	91	9.482	9.482 (0.933)	2994	0.50000	0.56(a)
77	4-Chlorotoluene	91	9.576	9.576 (0.942)	3281	0.50000	0.54(a)

Data File: \\nahstws005\Target\chem\voa9.i\U240523.b\V052203.D Page 3
Report Date: 23-May-2024 09:51

		QUANT SIG					AMOUNTS CAL-AMT	ON-COL
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/l)	(ug/l)
78	tert-Butylbenzene	119	9.835	9.835	(0.967)	2597	0.50000	0.52(a)
79	1,2,4-Trimethylbenzene	105	9.876	9.876	(0.971)	3521	0.50000	0.61(a)
81	sec-Butylbenzene	105	10.018	10.018	(0.985)	3488	0.50000	0.53(a)
82	p-Isopropyltoluene	119	10.146	10.146	(0.998)	2911	0.50000	0.51(a)
83	1,3-Dichlorobenzene	146	10.112	10.112	(0.994)	2161	0.50000	0.58(aM)
84	1,4-Dichlorobenzene	146	10.187	10.187	(1.002)	3093	0.50000	0.74(a)
86	Benzyl Chloride	91	10.311	10.311	(1.260)	4426	0.50000	1.31(aM)
87	n-Butylbenzene	91	10.491	10.491	(1.032)	3735	0.50000	0.67(a)
88	1,2-Dichlorobenzene	146	10.506	10.506	(1.033)	2392	0.50000	0.63(a)
89	1,2-Dibromo-3-Chloropropane	155	11.173	11.173	(1.099)	132	0.50000	0.49(aM)
90	1,2,4-Trichlorobenzene	180	11.863	11.863	(1.167)	1398	0.50000	0.59(aM)
91	Hexachlorobutadiene	225	11.998	11.998	(1.180)	739	0.50000	0.71(aM)
92	Naphthalene	128	12.073	12.073	(1.187)	2546	0.50000	0.50(a)
93	1,2,3-Trichlorobenzene	180	12.271	12.271	(1.207)	1339	0.50000	0.60(aM)
146	Methyl acetate	43	2.716	2.716	(0.564)	1546	0.50000	0.66(aM)
138	Freon TF	101	2.341	2.341	(0.486)	1173	0.50000	0.46(a)
141	Cyclohexane	56	4.815	4.815	(1.000)	5290	0.50000	1.25(aM)
147	Methylcyclohexane	55	5.951	5.951	(1.072)	1777	0.50000	0.42(a)
135	1,4-Dioxane	88	6.176	6.176	(1.283)	374	10.0000	14.20(aM)
132	n-Butanol	56	5.839	5.839	(1.213)	459	10.0000	10.47(aM)
136	n-Hexane	57	3.349	3.349	(0.696)	1310	0.50000	0.72(Ta)
139	Diethyl ether	59	2.150	2.150	(0.447)	778	0.50000	0.60(aM)
148	Tert-butyl alcohol	59	2.978	2.978	(0.619)	1855	10.0000	13.41(M)
149	Isopropyl alcohol	45	2.570	2.570	(0.534)	1468	10.0000	13.16(T)
152	Amyl alcohol	42	7.413	7.413	(0.906)	903	10.0000	16.75(M)
156	Diisopropyl ether	45	3.627	3.627	(0.753)	3742	0.50000	0.61(aM)
187	n-Amyl acetate	43	8.935	8.935	(1.092)	1919	0.50000	0.55(aM)
164	Dicyclopentadiene	66	10.195	10.195	(1.003)	6100	0.50000	0.74(TaM)
166	1,2,3-Trimethylbenzene	105	10.232	10.232	(1.006)	2789	0.50000	0.52(a)
167	Ethanol	45	2.094	2.094	(0.435)	322	10.0000	14.15(M)
172	tert-Butyl formate	59	5.246	5.246	(1.090)	1386	1.00000	1.03(aM)
173	3,3-Dimethyl-1-butanol	57	7.784	7.784	(0.951)	2315	10.0000	11.39(M)
174	tert-Amyl methyl ether	73	5.284	5.284	(1.097)	2738	0.50000	0.53(Ta)
175	tert-Butyl ethyl ether	59	4.058	4.058	(0.843)	2911	0.50000	0.56(a)
176	tert-Amyl alcohol	59	5.246	5.246	(1.090)	1386	10.0000	10.39
151	4-Methyl-2-pentanol	45	7.218	7.218	(1.300)	4329	10.0000	8.39
140	1,3-Butadiene	54	1.408	1.408	(0.292)	594	0.50000	0.64(aM)
182	Epichlorohydrin	57	6.630	6.630	(1.194)	205	2.00000	1.63(aM)
M 94	1,2-Dichloroethylene (total)	96				2166	1.00000	(a)
130	Ethyl Acetate	43	4.347	4.347	(0.903)	1741	0.50000	0.76(aM)
131	Methyl Acrylate	55	4.380	4.380	(0.910)	1203	0.50000	0.53(aM)
189	n-Butyl acetate	43	7.709	7.709	(0.942)	1715	0.50000	0.54(aM)
134	Cyclohexanone	55	9.156	9.156	(0.900)	937	10.0000	10.29(Ta)
185	Isoprene	39	2.157	2.157	(0.448)	204	0.50000	0.51(aM)
188	Isopropyl acetate	43	5.284	5.284	(0.951)	3832	0.50000	0.66(aM)
150	Allyl alcohol	57	3.349	3.349	(0.696)	1310	10.0000	14.40
195	Methyl Amyl Ketone	43	8.875	8.875	(1.084)	1710	0.50000	0.44(aM)
200	Dimethyl Disulfide	94	6.746	6.746	(0.824)	343	0.50000	0.35(aM)
163	Butyl methacrylate	41	9.651	9.651	(0.949)	1303	0.50000	0.60(a)
203	2-Ethylhexyl Acrylate	55	12.043	12.043	(1.184)	680	0.50000	0.44(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.



Data File: \\NAHSTWS005\Target\chem\voa9.i\u240523.b\v052203.d
Date : 22-MAY-2024 20:44
Client ID: VSTD00.5
Sample Info: VSTD00.5;VSTD00.5;1;2
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9.i
Operator: FT
Column diameter: 0.18

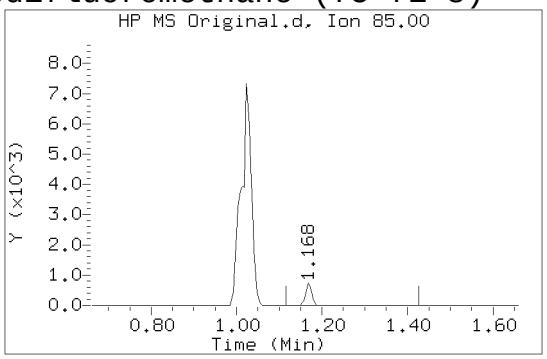
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Inj Date : 22-MAY-2024 20:44
InstruID : VOA9.i
LabSampID : VSTD00.5

Dichlorodifluoromethane (75-71-8)

Reason Code:

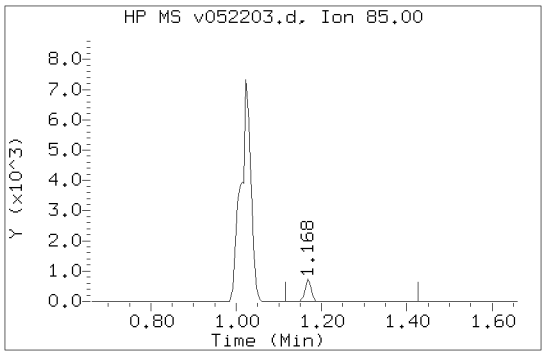
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23-May-2024
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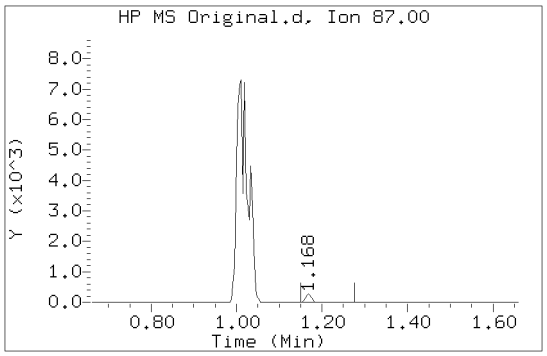
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tastan



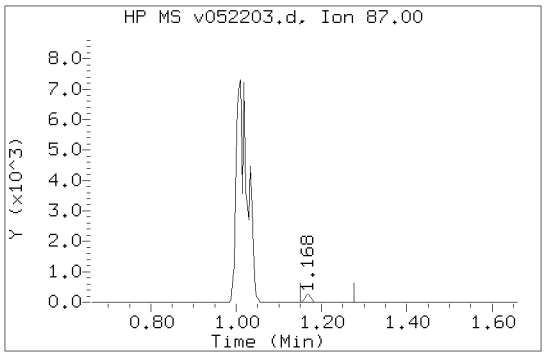
BEFORE

MASS
87
AREA
252
HEIGHT
264
23-May-2024
09:51
firat
tastan



AFTER

MASS
87
AREA
252
HEIGHT
264
23-May-2024
09:51
firat
tastan

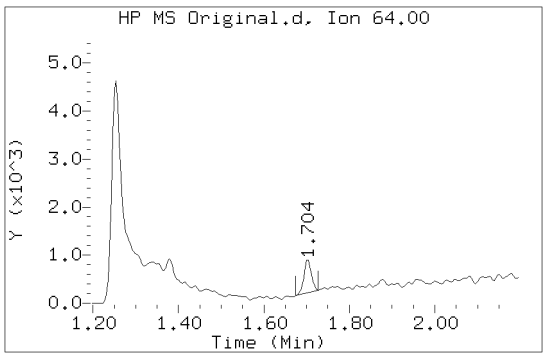


Chloroethane (75-00-3)

Reason Code:

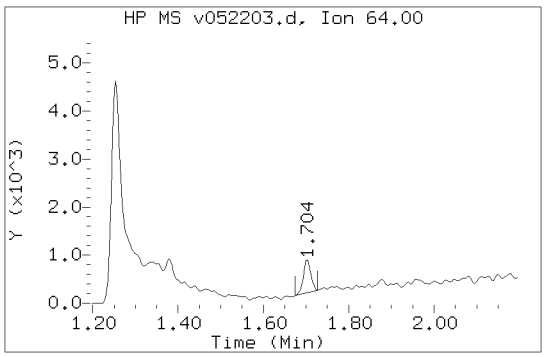
BEFORE

MASS
64
AREA
863
HEIGHT
681
23-May-2024
09:51
firat
tastan



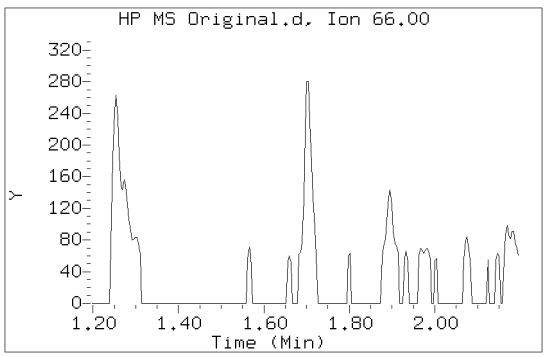
AFTER

MASS
64
AREA
863
HEIGHT
681
23-May-2024
09:51
firat
tastan



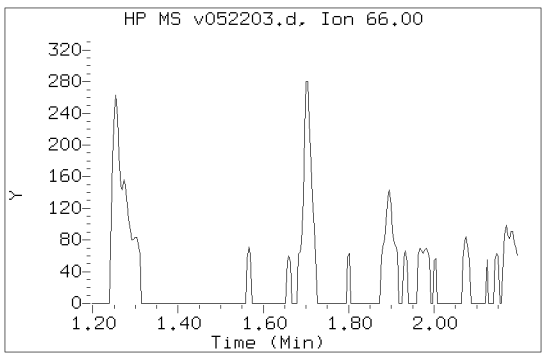
BEFORE

MASS
66
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



AFTER

MASS
66
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



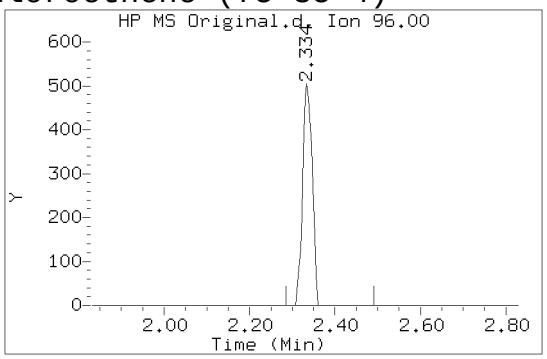
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Inj Date : 22-MAY-2024 20:44
InstruID : VOA9.i
LabSampID : VSTD00.5

1,1-Dichloroethene (75-35-4)

Reason Code:

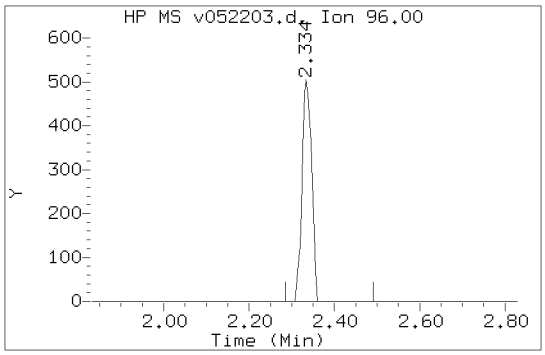
BEFORE

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96
AREA
799
HEIGHT
505
23-May-2024
09:51
firat
tastan



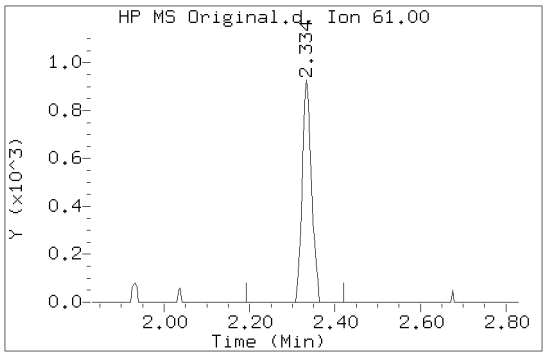
AFTER

MASS
96
AREA
799
HEIGHT
505
23-May-2024
09:51
firat
tastan



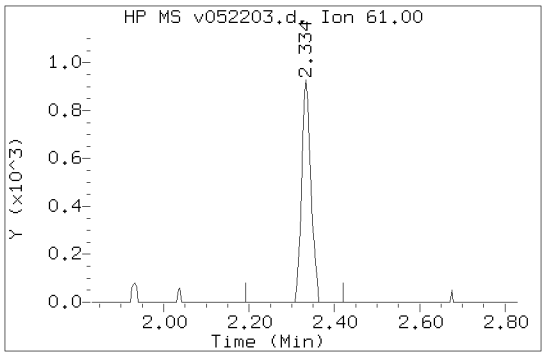
BEFORE

MASS
61
AREA
1418
HEIGHT
928
23-May-2024
09:51
firat
tastan



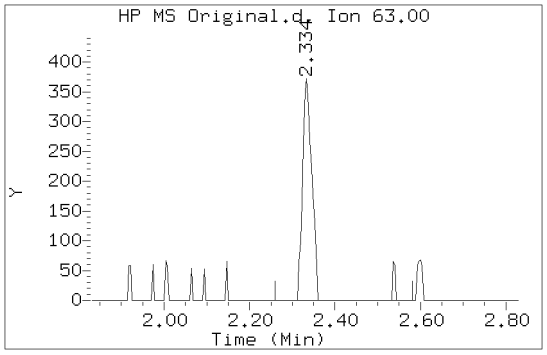
AFTER

MASS
61
AREA
1418
HEIGHT
928
23-May-2024
09:51
firat
tastan



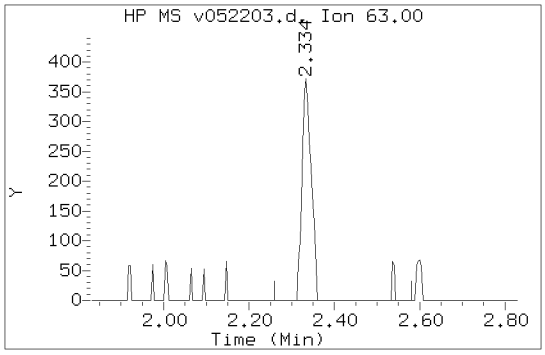
BEFORE

MASS
63
AREA
594
HEIGHT
372
23-May-2024
09:51
firat
tastan



AFTER

MASS
63
AREA
594
HEIGHT
372
23-May-2024
09:51
firat
tastan

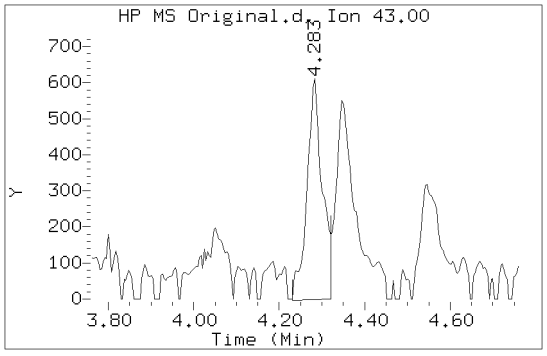


2-Butanone (78-93-3)

Reason Code:

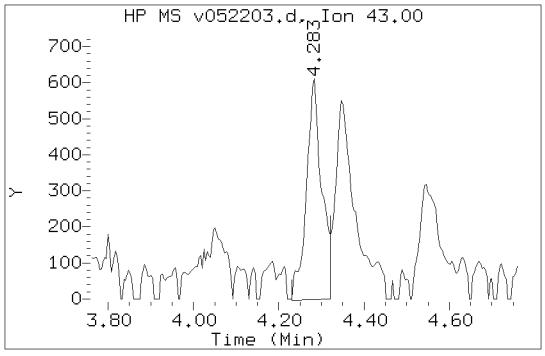
BEFORE

MASS
43
AREA
1551
HEIGHT
612
23-May-2024
09:51
firat
tastan



AFTER

MASS
43
AREA
1551
HEIGHT
612
23-May-2024
09:51
firat
tastan



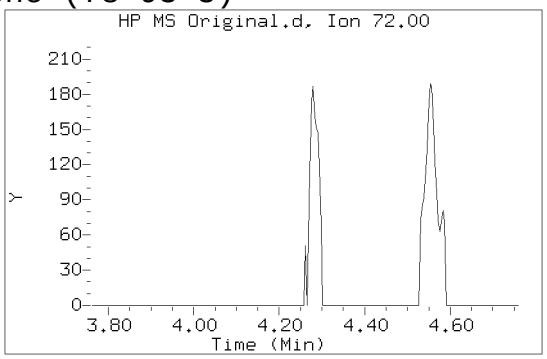
Data File : \\nahstws005\target\chem\voa9.i\u240523.b\v052203.d
Inj Date : 22-MAY-2024 20:44
InstruID : VOA9.i
LabSampID : VSTD00.5

2-Butanone (78-93-3)

Reason Code:

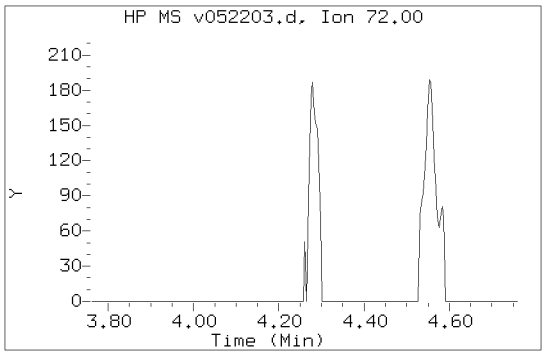
BEFORE

MASS
72
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



AFTER

MASS
72
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan

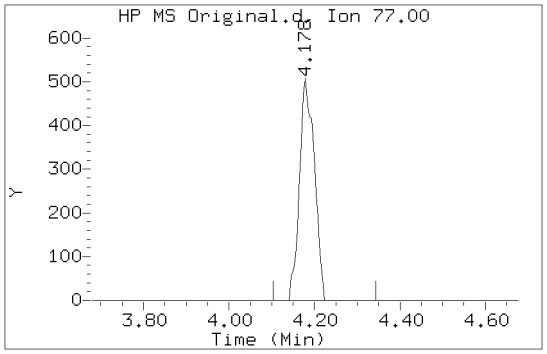


2,2-Dichloropropane (594-20-7)

Reason Code:

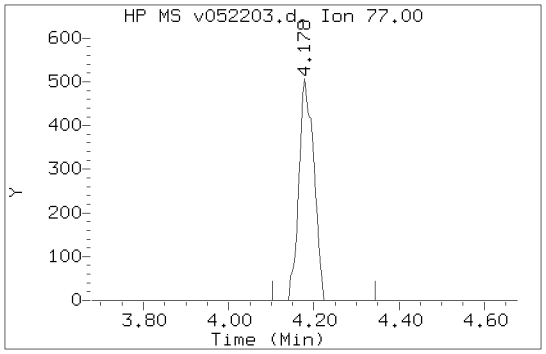
BEFORE

MASS
77
AREA
1245
HEIGHT
507
23-May-2024
09:51
firat
tastan



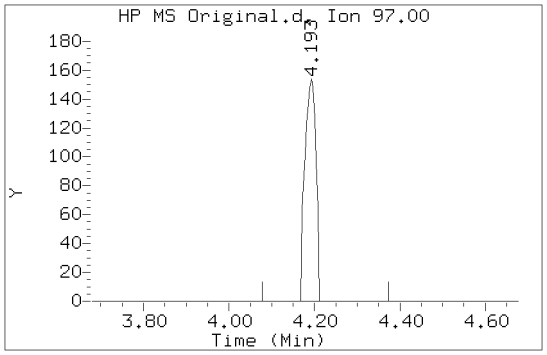
AFTER

MASS
77
AREA
1245
HEIGHT
507
23-May-2024
09:51
firat
tastan



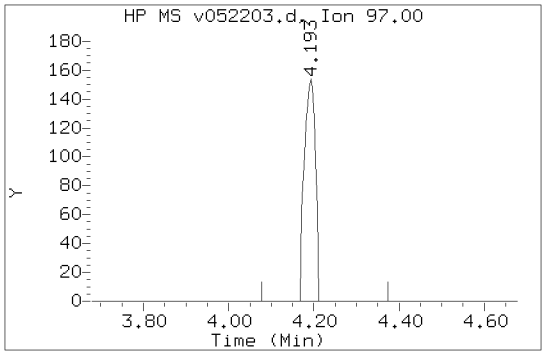
BEFORE

MASS
97
AREA
279
HEIGHT
154
23-May-2024
09:51
firat
tastan



AFTER

MASS
97
AREA
279
HEIGHT
154
23-May-2024
09:51
firat
tastan

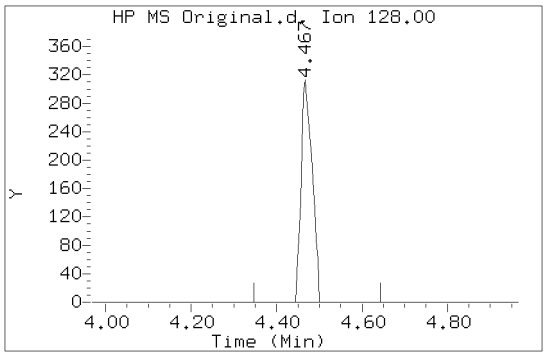


Bromochloromethane (74-97-5)

Reason Code:

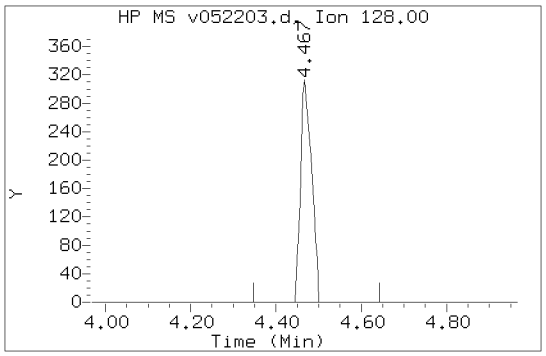
BEFORE

MASS
128
AREA
572
HEIGHT
313
23-May-2024
09:51
firat
tastan



AFTER

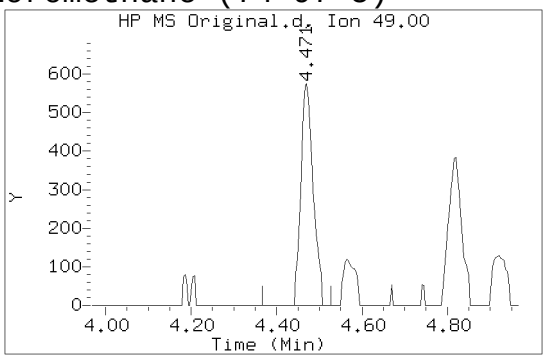
MASS
128
AREA
572
HEIGHT
313
23-May-2024
09:51
firat
tastan



Data File : \\nahstws005\target\chem\voa9.i\u240523.b\v052203.d
Inj Date : 22-MAY-2024 20:44
InstruID : VOA9.i
LabSampID : VSTD00.5

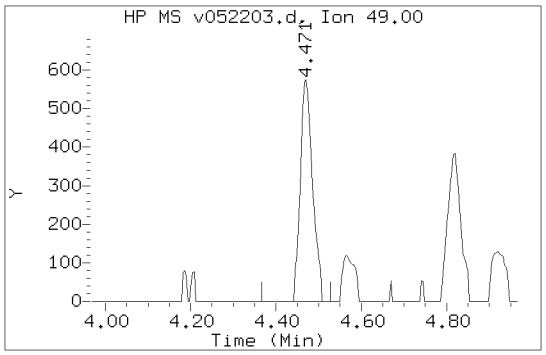
Bromochloromethane (74-97-5)

BEFORE
MASS
49
AREA
1166
HEIGHT
575
23-May-2024
09:51
firat
tastan

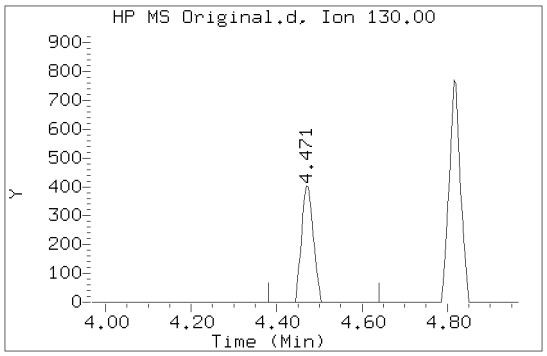


Reason Code:

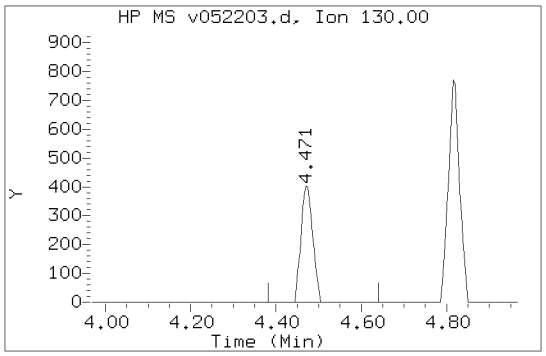
AFTER
MASS
49
AREA
1166
HEIGHT
575
23-May-2024
09:51
firat
tastan



BEFORE
MASS
130
AREA
782
HEIGHT
404
23-May-2024
09:51
firat
tastan



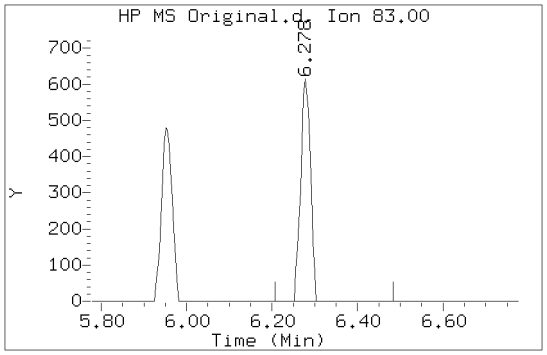
AFTER
MASS
130
AREA
782
HEIGHT
404
23-May-2024
09:51
firat
tastan



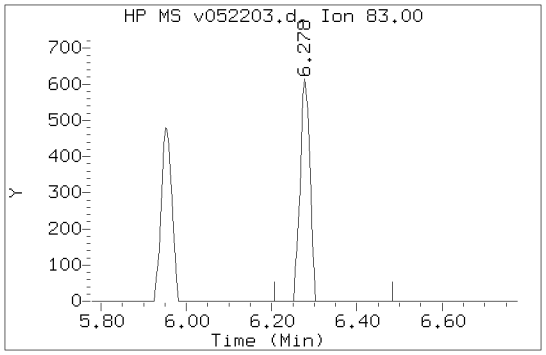
Bromodichloromethane (75-27-4)

Reason Code:

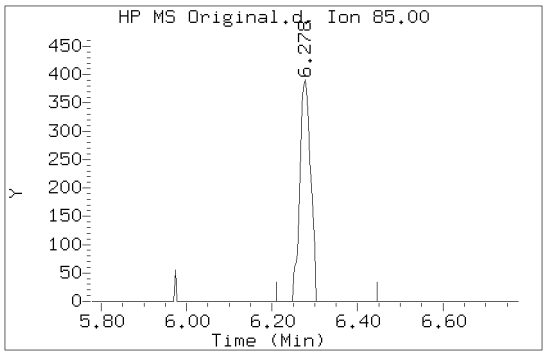
BEFORE
MASS
83
AREA
1006
HEIGHT
615
23-May-2024
09:51
firat
tastan



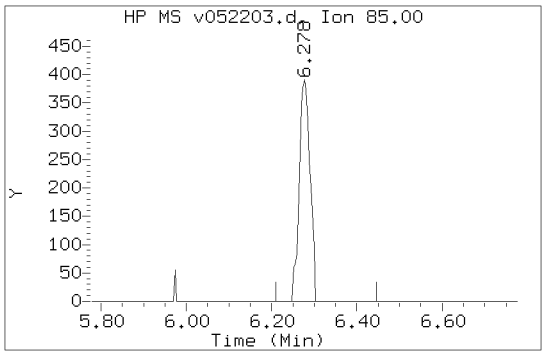
AFTER
MASS
83
AREA
1006
HEIGHT
615
23-May-2024
09:51
firat
tastan



BEFORE
MASS
85
AREA
705
HEIGHT
391
23-May-2024
09:51
firat
tastan



AFTER
MASS
85
AREA
705
HEIGHT
391
23-May-2024
09:51
firat
tastan

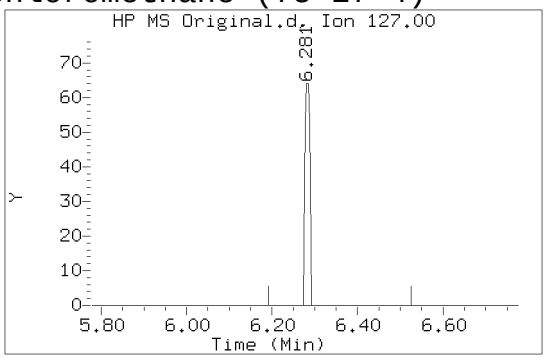


Data File : \\nahstws005\target\chem\voa9.i\u240523.b\v052203.d
Inj Date : 22-MAY-2024 20:44
InstruID : VOA9.i
LabSampID : VSTD00.5

Bromodichloromethane (75-27-4)

BEFORE

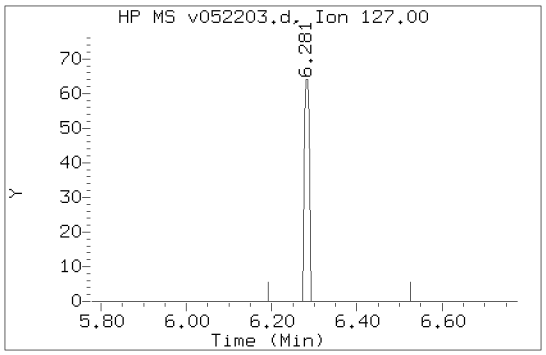
MASS
127
AREA
52
HEIGHT
64
23-May-2024
09:51
firat
tastan



Reason Code:

AFTER

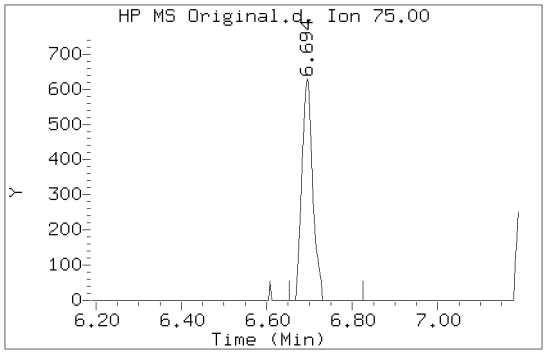
MASS
127
AREA
52
HEIGHT
64
23-May-2024
09:51
firat
tastan



cis-1,3-Dichloropropene (10061-01-5)

BEFORE

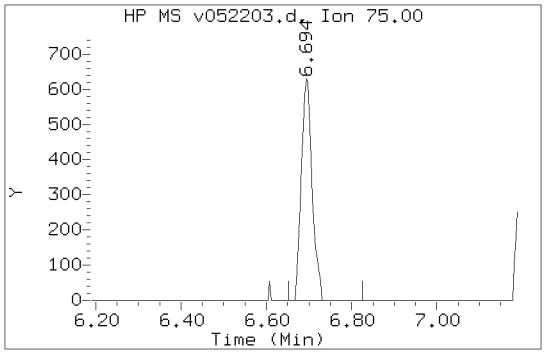
MASS
75
AREA
1137
HEIGHT
630
23-May-2024
09:51
firat
tastan



Reason Code:

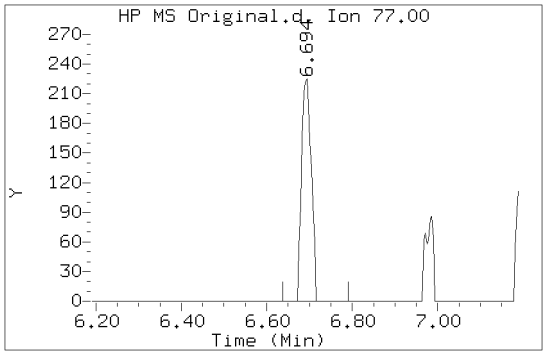
AFTER

MASS
75
AREA
1137
HEIGHT
630
23-May-2024
09:51
firat
tastan



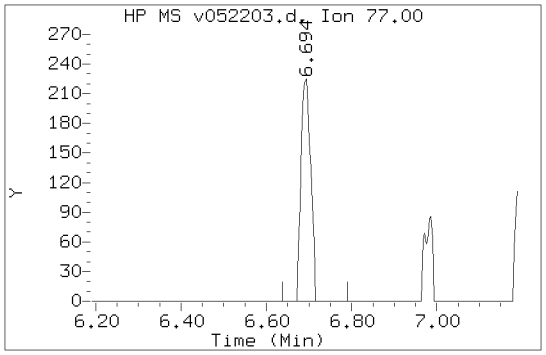
BEFORE

MASS
77
AREA
365
HEIGHT
225
23-May-2024
09:51
firat
tastan



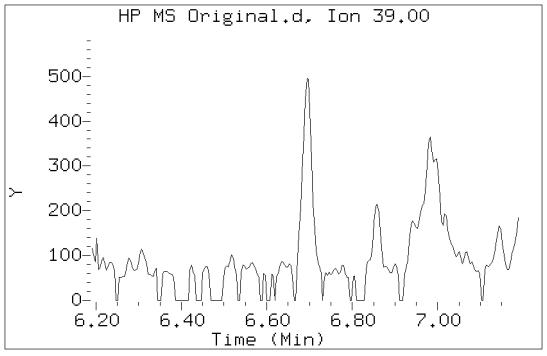
AFTER

MASS
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AREA
365
HEIGHT
225
23-May-2024
09:51
firat
tastan



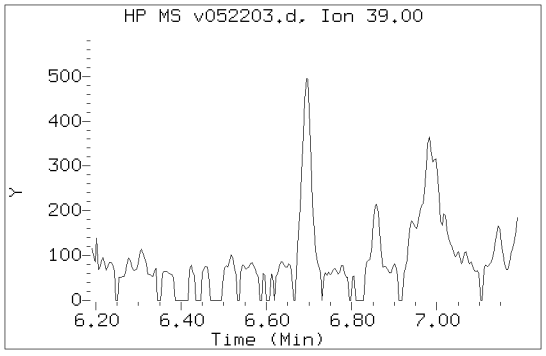
BEFORE

MASS
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AREA
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HEIGHT
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23-May-2024
09:51
firat
tastan



AFTER

MASS
39
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



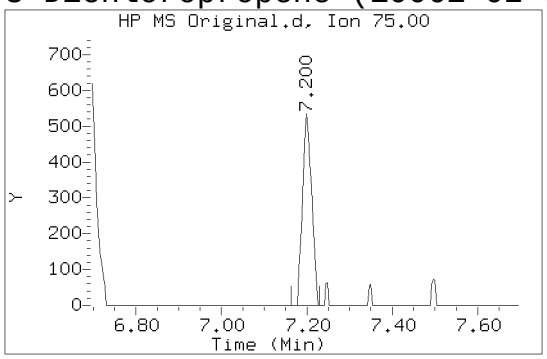
Data File : \\nahstws005\target\chem\voa9.i\u240523.b\v052203.d
Inj Date : 22-MAY-2024 20:44
InstruID : VOA9.i
LabSampID : VSTD00.5

trans-1,3-Dichloropropene (10061-02-6)

Reason Code:

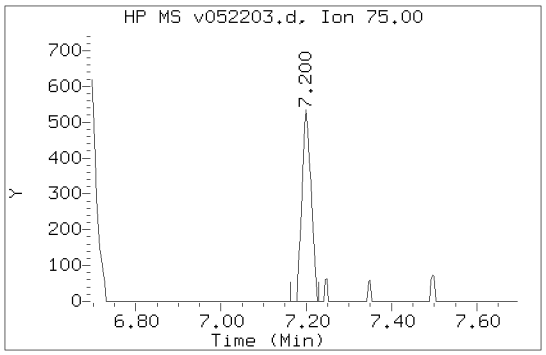
BEFORE

MASS
75
AREA
806
HEIGHT
535
23-May-2024
09:51
firat
tastan



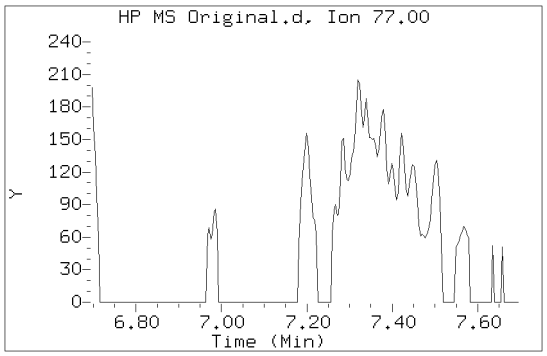
AFTER

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AREA
806
HEIGHT
535
23-May-2024
09:51
firat
tastan



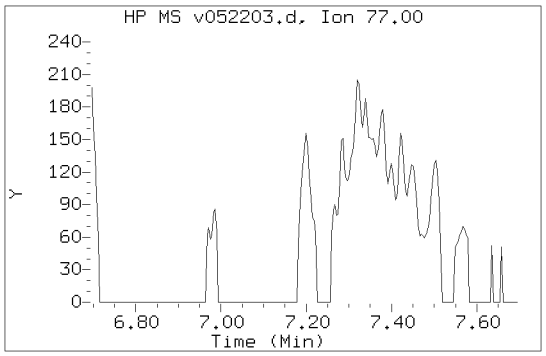
BEFORE

MASS
77
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



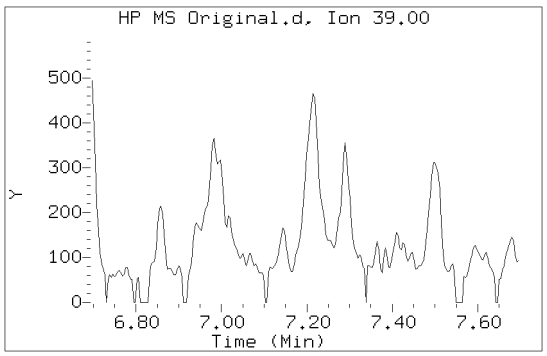
AFTER

MASS
77
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



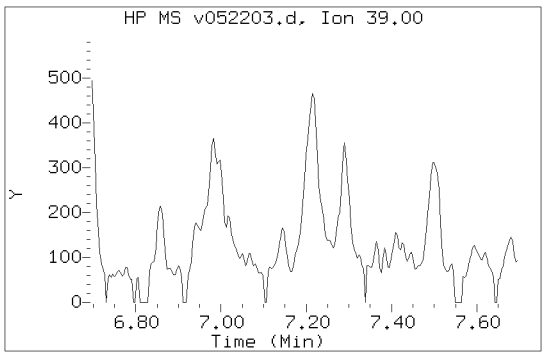
BEFORE

MASS
39
AREA
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HEIGHT
0
23-May-2024
09:51
firat
tastan



AFTER

MASS
39
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan

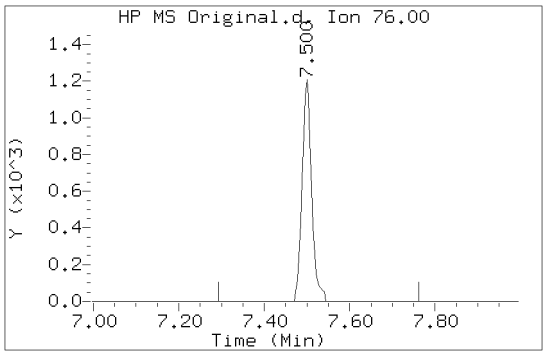


1,3-Dichloropropane (142-28-9)

Reason Code:

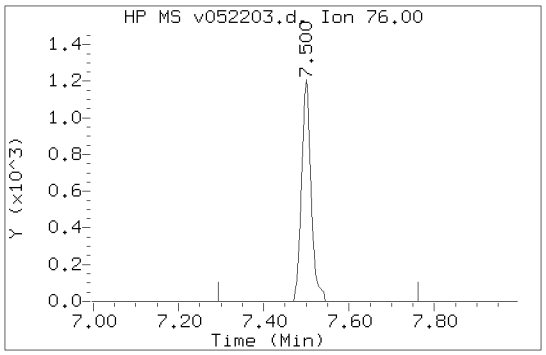
BEFORE

MASS
76
AREA
1916
HEIGHT
1208
23-May-2024
09:51
firat
tastan



AFTER

MASS
76
AREA
1916
HEIGHT
1208
23-May-2024
09:51
firat
tastan

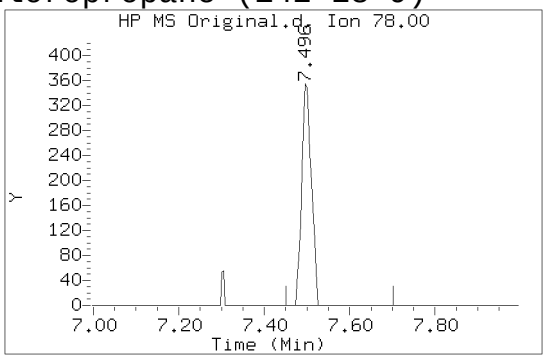


Data File : \\nahstws005\target\chem\voa9.i\u240523.b\v052203.d
Inj Date : 22-MAY-2024 20:44
InstruID : VOA9.i
LabSampID : VSTD00.5

1,3-Dichloropropane (142-28-9)

BEFORE

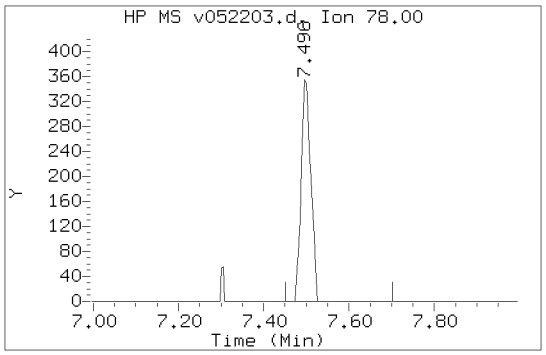
MASS
78
AREA
572
HEIGHT
355
23-May-2024
09:51
firat
tastan



Reason Code:

AFTER

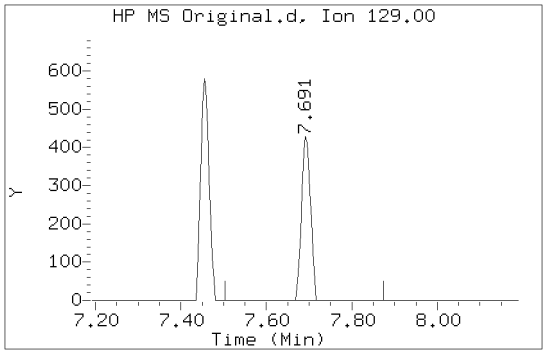
MASS
78
AREA
572
HEIGHT
355
23-May-2024
09:51
firat
tastan



Dibromochloromethane (124-48-1)

BEFORE

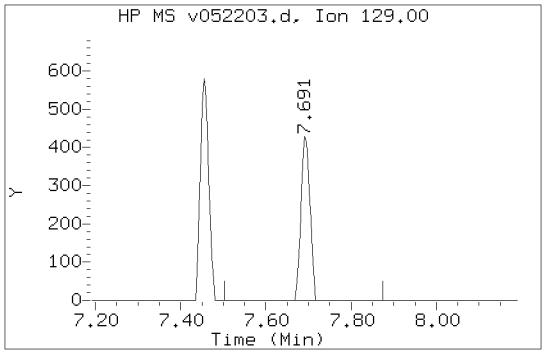
MASS
129
AREA
646
HEIGHT
429
23-May-2024
09:51
firat
tastan



Reason Code:

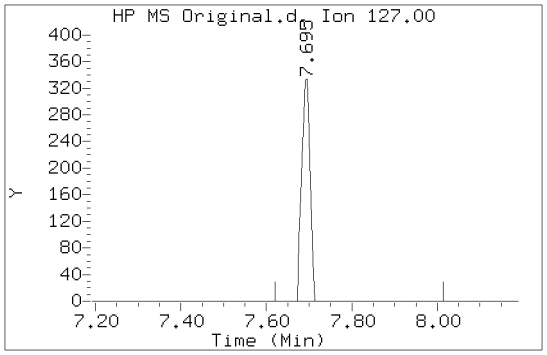
AFTER

MASS
129
AREA
646
HEIGHT
429
23-May-2024
09:51
firat
tastan



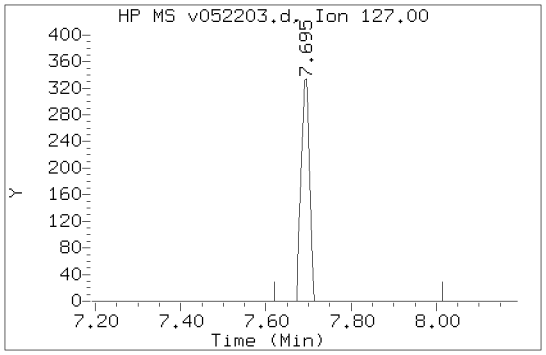
BEFORE

MASS
127
AREA
470
HEIGHT
334
23-May-2024
09:51
firat
tastan



AFTER

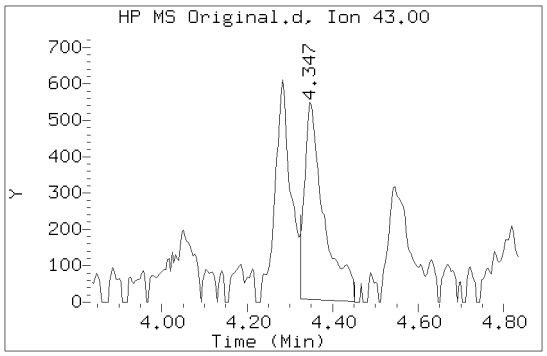
MASS
127
AREA
470
HEIGHT
334
23-May-2024
09:51
firat
tastan



Vinyl Acetate (108-05-4)

BEFORE

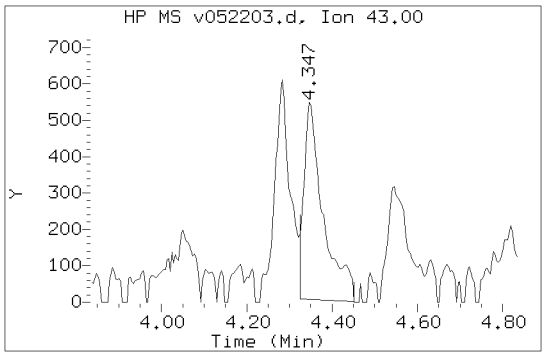
MASS
43
AREA
1730
HEIGHT
543
23-May-2024
09:51
firat
tastan



Reason Code:

AFTER

MASS
43
AREA
1730
HEIGHT
543
23-May-2024
09:51
firat
tastan



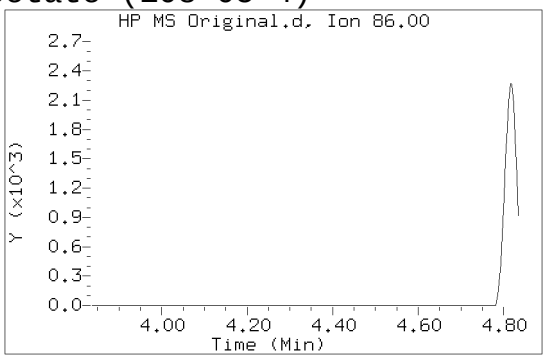
Data File : \\nahstws005\target\chem\voa9.i\u240523.b\v052203.d
Inj Date : 22-MAY-2024 20:44
InstruID : VOA9.i
LabSampID : VSTD00.5

Vinyl Acetate (108-05-4)

Reason Code:

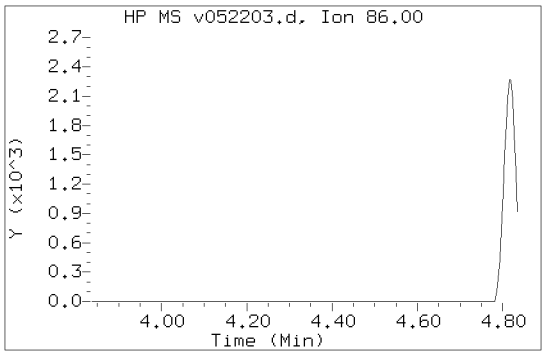
BEFORE

MASS
86
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



AFTER

MASS
86
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan

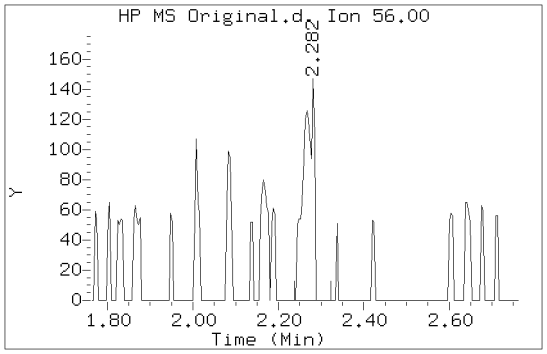


Acrolein (107-02-8)

Reason Code:

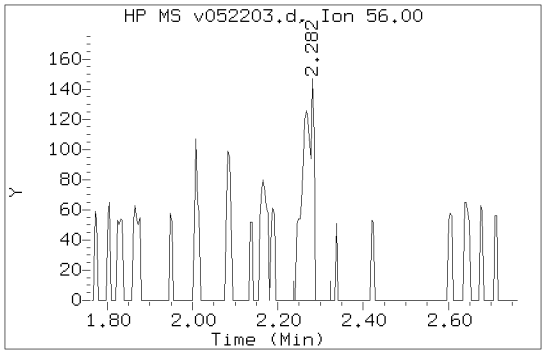
BEFORE

MASS
56
AREA
256
HEIGHT
147
23-May-2024
09:51
firat
tastan



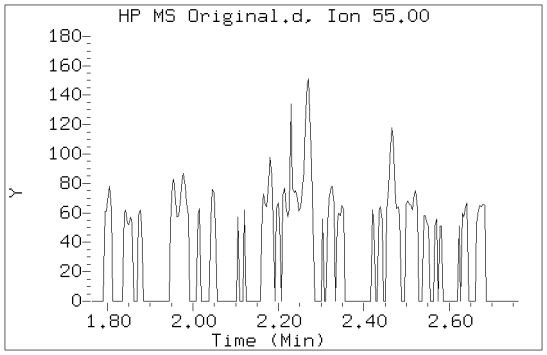
AFTER

MASS
56
AREA
256
HEIGHT
147
23-May-2024
09:51
firat
tastan



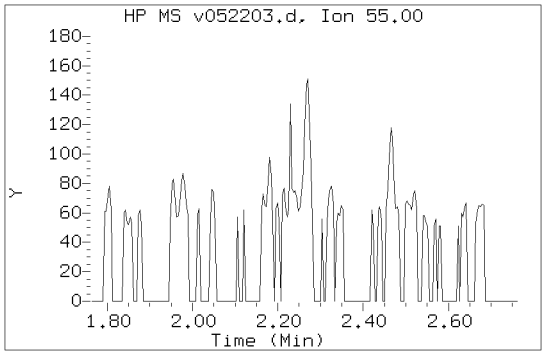
BEFORE

MASS
55
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



AFTER

MASS
55
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan

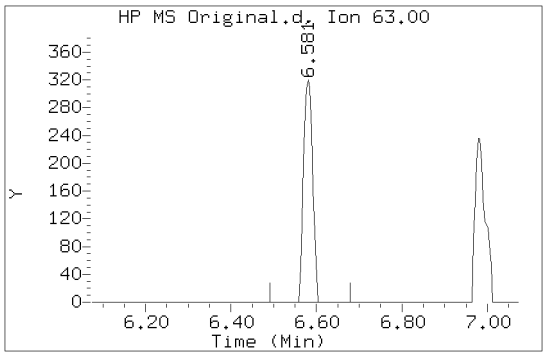


2-Chloroethylvinyl ether (110-75-8)

Reason Code:

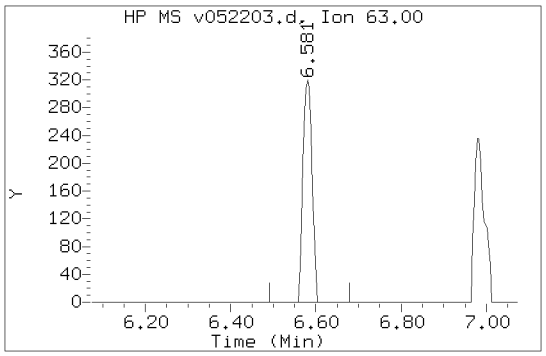
BEFORE

MASS
63
AREA
481
HEIGHT
320
23-May-2024
09:51
firat
tastan



AFTER

MASS
63
AREA
481
HEIGHT
320
23-May-2024
09:51
firat
tastan



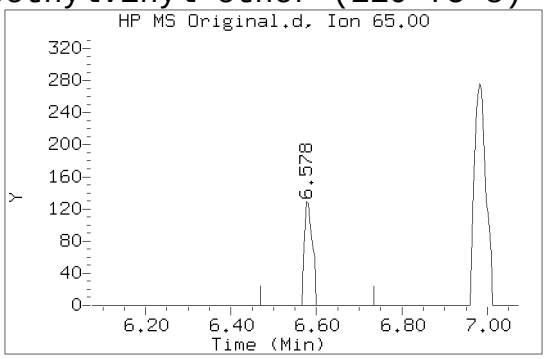
Data File : \\nahstws005\target\chem\voa9.i\u240523.b\v052203.d
Inj Date : 22-MAY-2024 20:44
InstruID : VOA9.i
LabSampID : VSTD00.5

2-Chloroethylvinyl ether (110-75-8)

Reason Code:

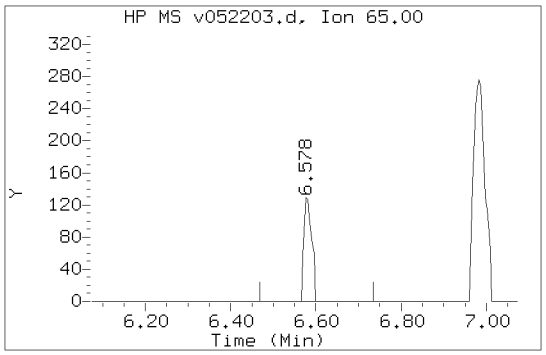
BEFORE

MASS
65
AREA
165
HEIGHT
129
23-May-2024
09:51
firat
tastan



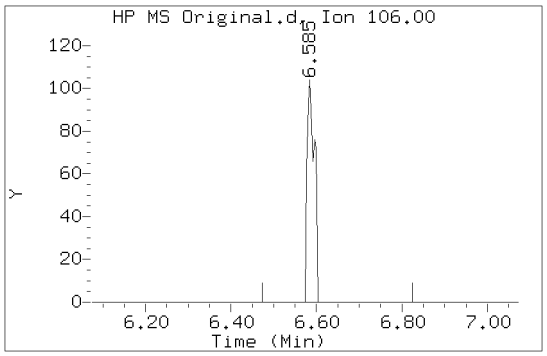
AFTER

MASS
65
AREA
165
HEIGHT
129
23-May-2024
09:51
firat
tastan



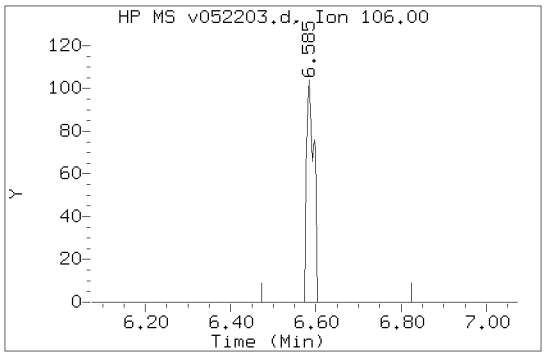
BEFORE

MASS
106
AREA
124
HEIGHT
104
23-May-2024
09:51
firat
tastan



AFTER

MASS
106
AREA
124
HEIGHT
104
23-May-2024
09:51
firat
tastan

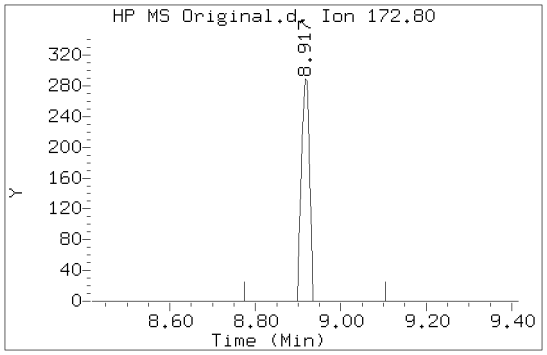


Bromoform (75-25-2)

Reason Code:

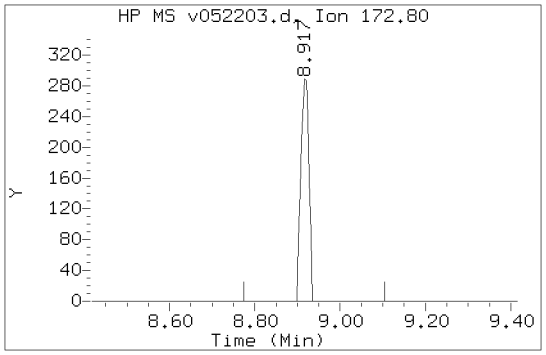
BEFORE

MASS
172.8
AREA
392
HEIGHT
289
23-May-2024
09:51
firat
tastan



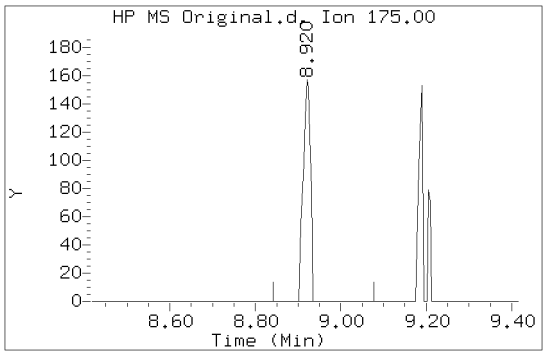
AFTER

MASS
172.8
AREA
392
HEIGHT
289
23-May-2024
09:51
firat
tastan



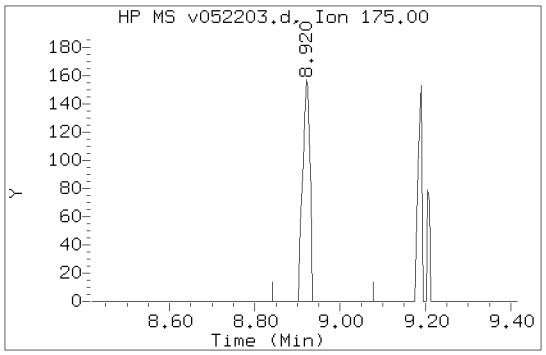
BEFORE

MASS
175
AREA
192
HEIGHT
157
23-May-2024
09:51
firat
tastan



AFTER

MASS
175
AREA
192
HEIGHT
157
23-May-2024
09:51
firat
tastan



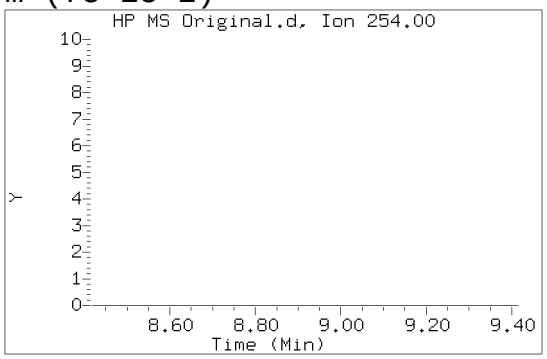
Data File : \\nahstws005\target\chem\voa9.i\u240523.b\v052203.d
Inj Date : 22-MAY-2024 20:44
InstruID : VOA9.i
LabSampID : VSTD00.5

Bromoform (75-25-2)

Reason Code:

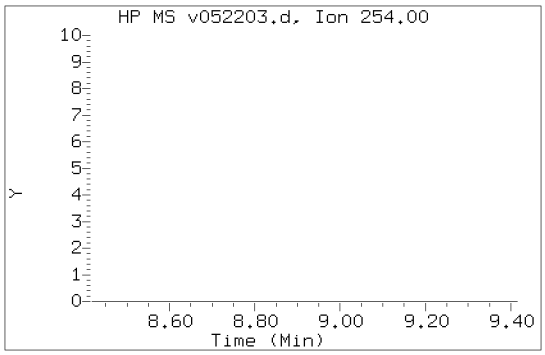
BEFORE

MASS
254
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



AFTER

MASS
254
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan

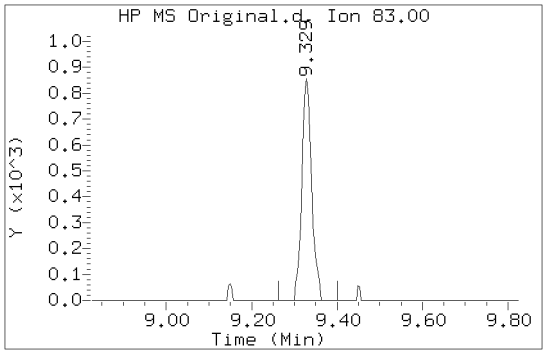


1,1,2,2-Tetrachloroethane (79-34-5)

Reason Code:

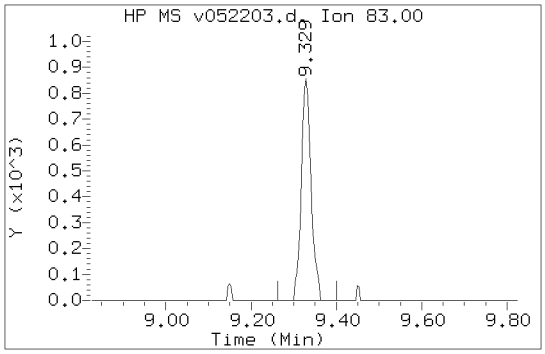
BEFORE

MASS
83
AREA
1392
HEIGHT
856
23-May-2024
09:51
firat
tastan



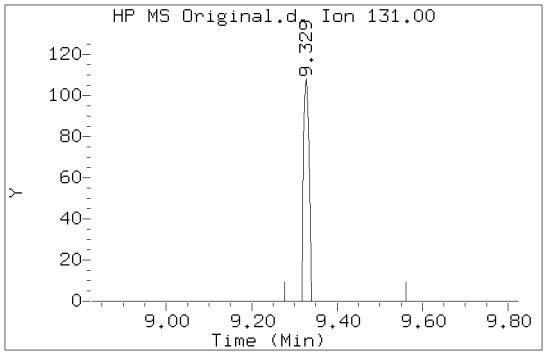
AFTER

MASS
83
AREA
1392
HEIGHT
856
23-May-2024
09:51
firat
tastan



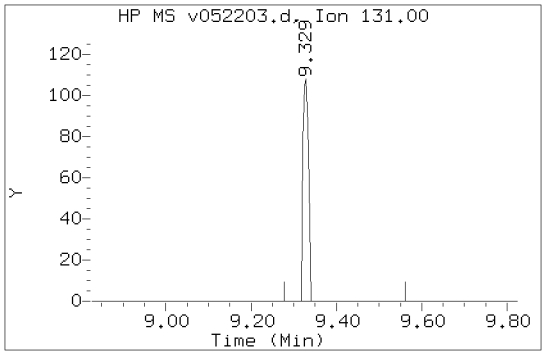
BEFORE

MASS
131
AREA
97
HEIGHT
108
23-May-2024
09:51
firat
tastan



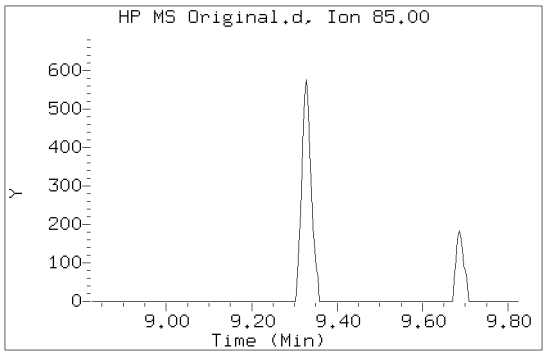
AFTER

MASS
131
AREA
97
HEIGHT
108
23-May-2024
09:51
firat
tastan



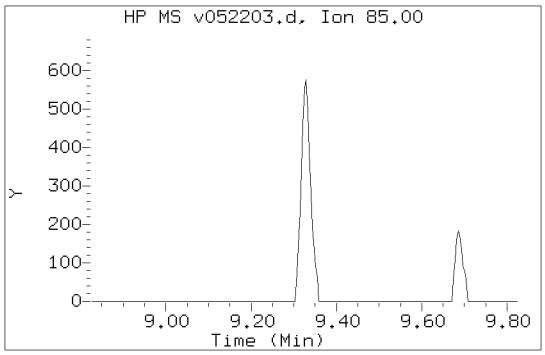
BEFORE

MASS
85
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



AFTER

MASS
85
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



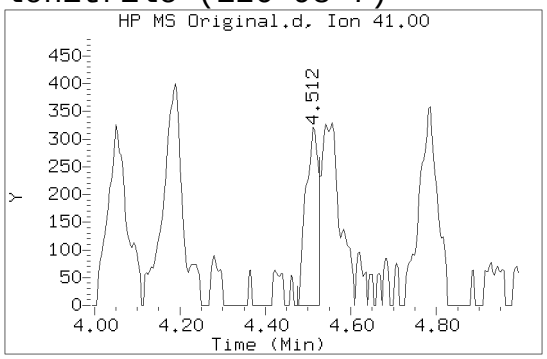
Data File : \\nahstws005\target\chem\voa9.i\u240523.b\v052203.d
Inj Date : 22-MAY-2024 20:44
InstruID : VOA9.i
LabSampID : VSTD00.5

Methacrylonitrile (126-98-7)

Reason Code:

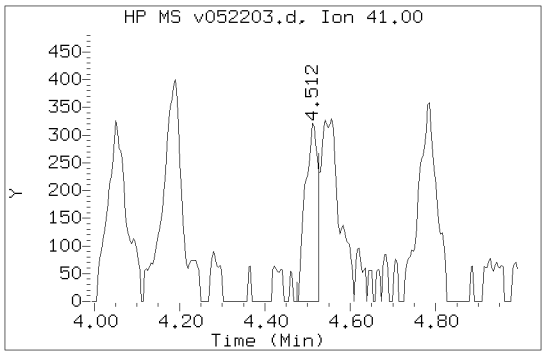
BEFORE

MASS
41
AREA
666
HEIGHT
322
23-May-2024
09:51
firat
tastan



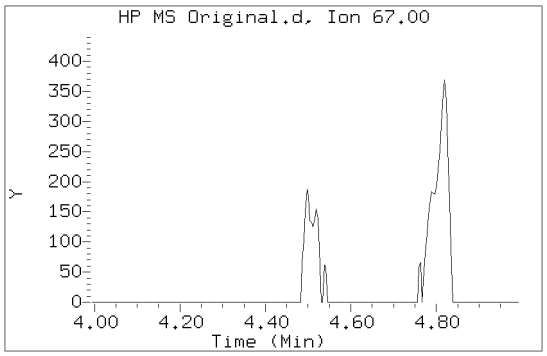
AFTER

MASS
41
AREA
666
HEIGHT
322
23-May-2024
09:51
firat
tastan



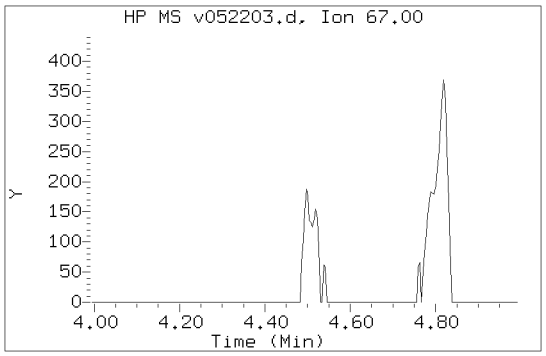
BEFORE

MASS
67
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



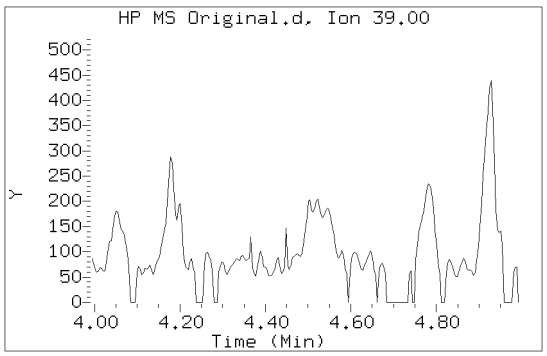
AFTER

MASS
67
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0
HEIGHT
0
23-May-2024
09:51
firat
tastan



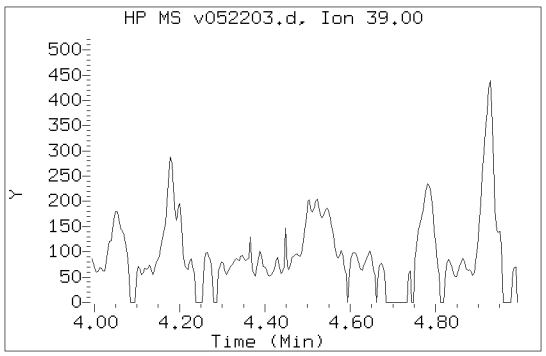
BEFORE

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23-May-2024
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AFTER

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HEIGHT
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23-May-2024
09:51
firat
tastan

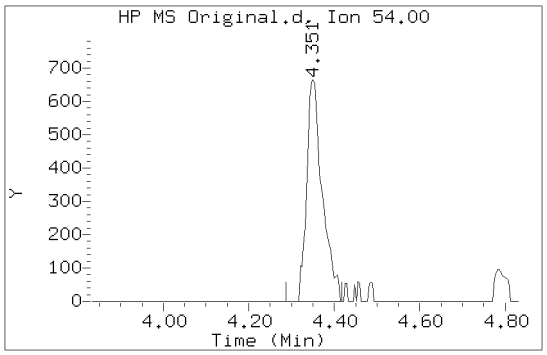


Propionitrile (107-12-0)

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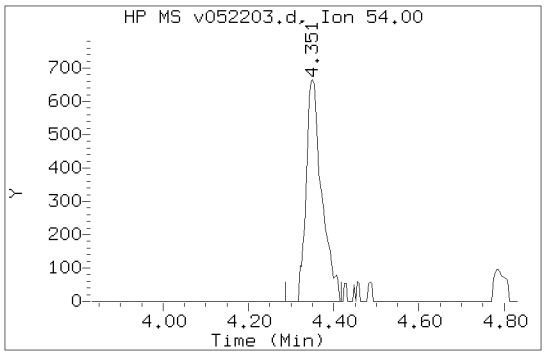
BEFORE

MASS
54
AREA
1689
HEIGHT
665
23-May-2024
09:51
firat
tastan



AFTER

MASS
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AREA
1689
HEIGHT
665
23-May-2024
09:51
firat
tastan



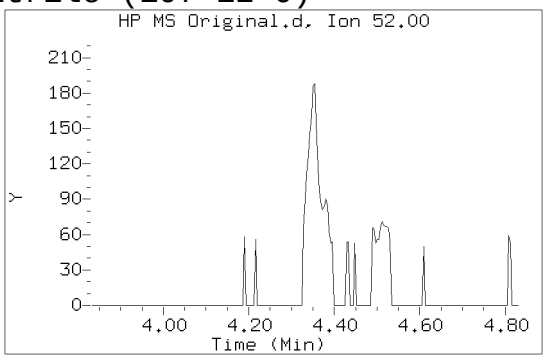
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Inj Date : 22-MAY-2024 20:44
InstruID : VOA9.i
LabSampID : VSTD00.5

Propionitrile (107-12-0)

Reason Code:

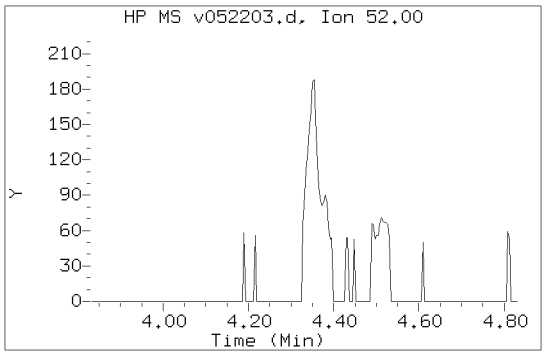
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HEIGHT
0
23-May-2024
09:51
firat
tastan



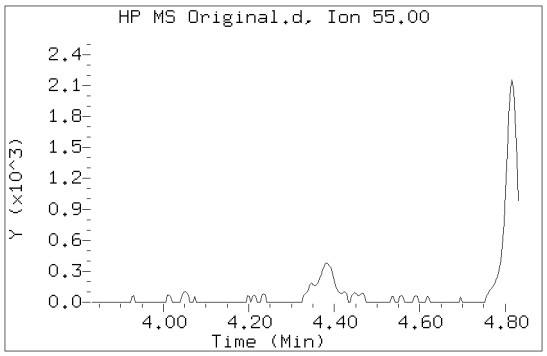
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23-May-2024
09:51
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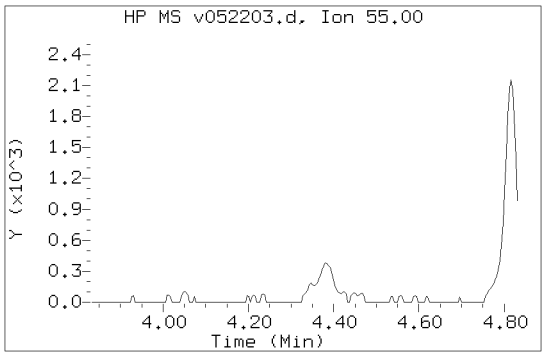
BEFORE

MASS
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AREA
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HEIGHT
0
23-May-2024
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firat
tastan



AFTER

MASS
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HEIGHT
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23-May-2024
09:51
firat
tastan

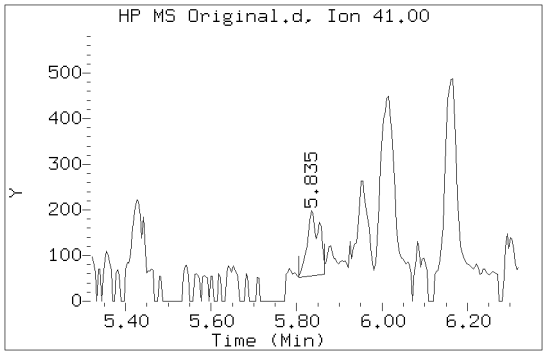


Methyl Methacrylate (80-62-6)

Reason Code:

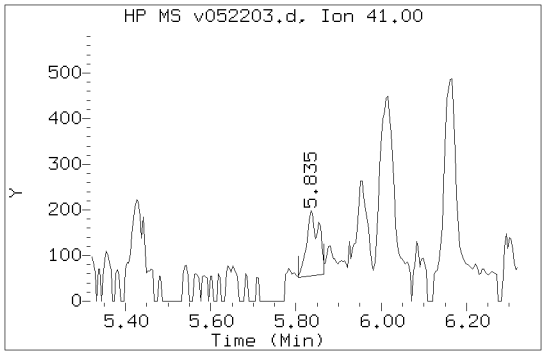
BEFORE

MASS
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AREA
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HEIGHT
143
23-May-2024
09:51
firat
tastan



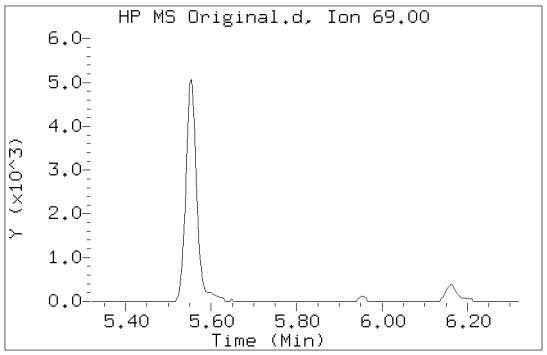
AFTER

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284
HEIGHT
143
23-May-2024
09:51
firat
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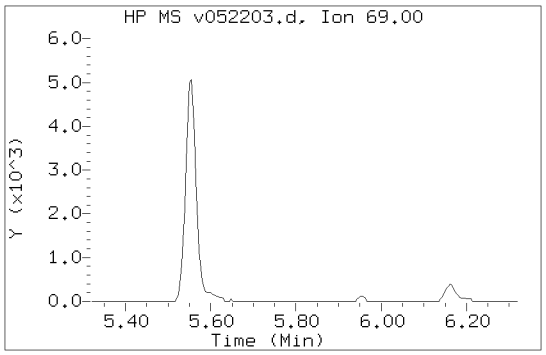
BEFORE

MASS
69
AREA
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HEIGHT
0
23-May-2024
09:51
firat
tastan



AFTER

MASS
69
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan

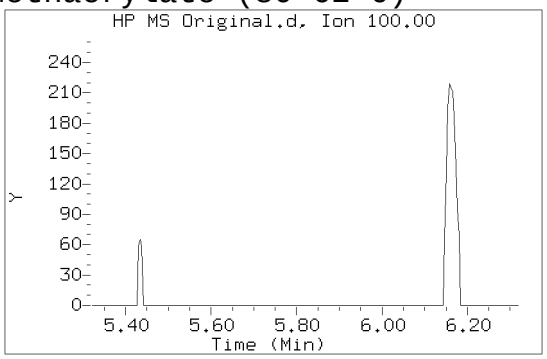


Data File : \\nahstws005\target\chem\voa9.i\u240523.b\v052203.d
Inj Date : 22-MAY-2024 20:44
InstruID : VOA9.i
LabSampID : VSTD00.5

Methyl Methacrylate (80-62-6)

BEFORE

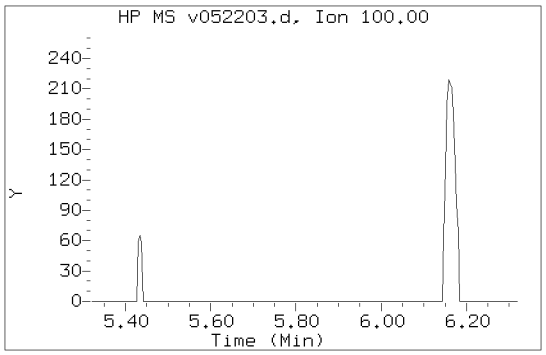
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HEIGHT
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23-May-2024
09:51
firat
tastan



Reason Code:

AFTER

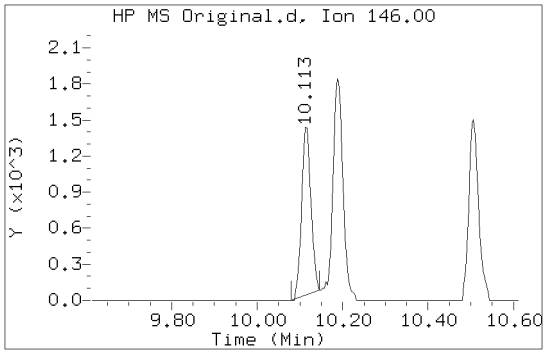
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HEIGHT
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23-May-2024
09:51
firat
tastan



1,3-Dichlorobenzene (541-73-1)

BEFORE

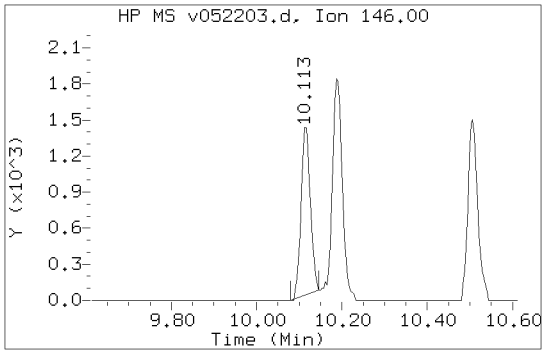
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146
AREA
2161
HEIGHT
1398
23-May-2024
09:51
firat
tastan



Reason Code:

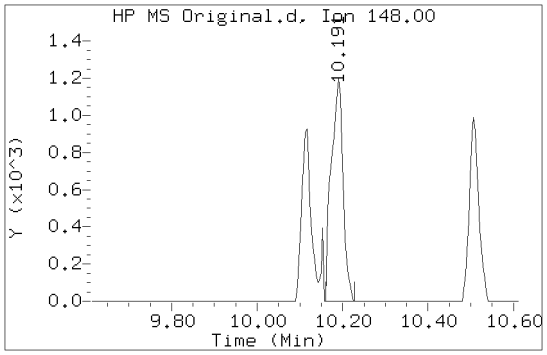
AFTER

MASS
146
AREA
2161
HEIGHT
1398
23-May-2024
09:51
firat
tastan



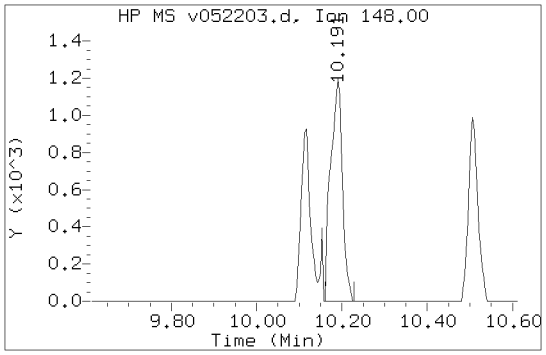
BEFORE

MASS
148
AREA
2283
HEIGHT
1196
23-May-2024
09:51
firat
tastan



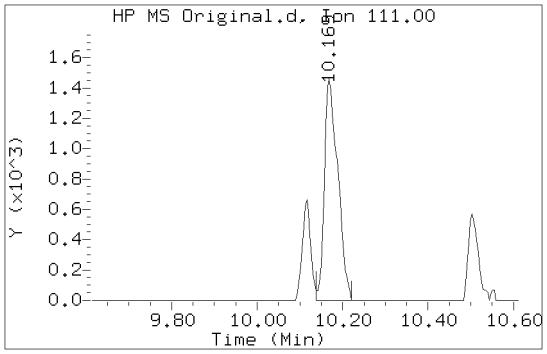
AFTER

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148
AREA
2283
HEIGHT
1196
23-May-2024
09:51
firat
tastan



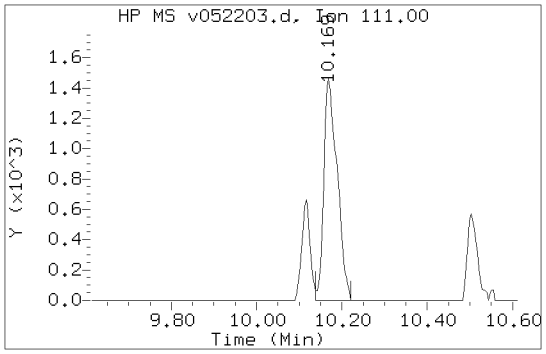
BEFORE

MASS
111
AREA
3179
HEIGHT
1461
23-May-2024
09:51
firat
tastan



AFTER

MASS
111
AREA
3179
HEIGHT
1461
23-May-2024
09:51
firat
tastan



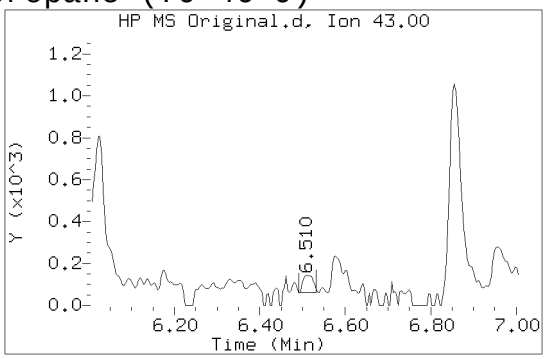
Data File : \\nahstws005\target\chem\voa9.i\u240523.b\v052203.d
Inj Date : 22-MAY-2024 20:44
InstruID : VOA9.i
LabSampID : VSTD00.5

2-Nitropropane (79-46-9)

Reason Code:

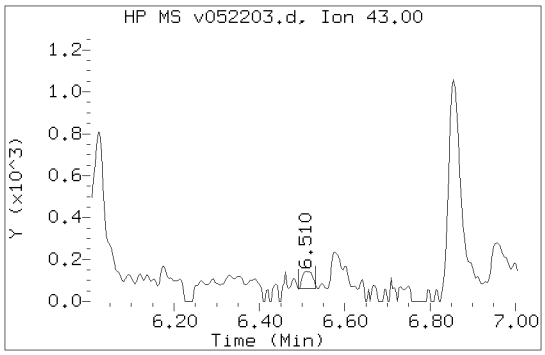
BEFORE

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AREA
138
HEIGHT
83
23-May-2024
09:51
firat
tastan



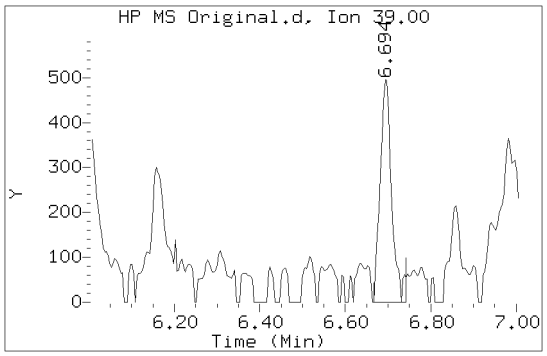
AFTER

MASS
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HEIGHT
83
23-May-2024
09:51
firat
tastan



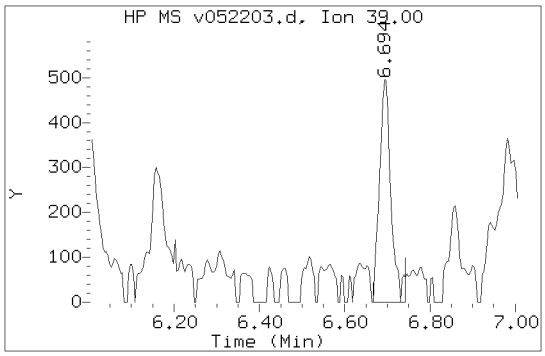
BEFORE

MASS
39
AREA
933
HEIGHT
495
23-May-2024
09:51
firat
tastan



AFTER

MASS
39
AREA
933
HEIGHT
495
23-May-2024
09:51
firat
tastan

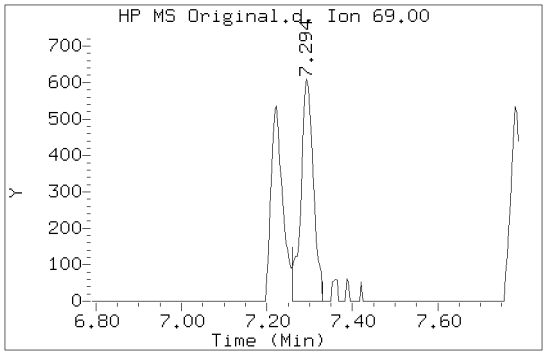


Ethyl Methacrylate (97-63-2)

Reason Code:

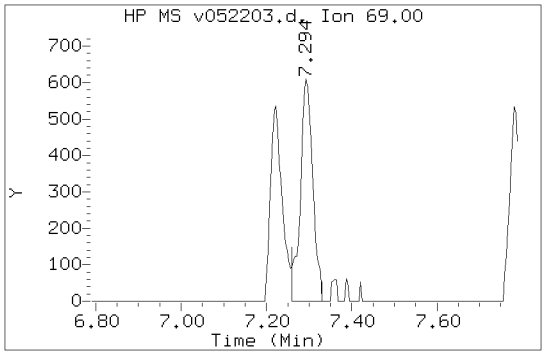
BEFORE

MASS
69
AREA
1247
HEIGHT
610
23-May-2024
09:51
firat
tastan



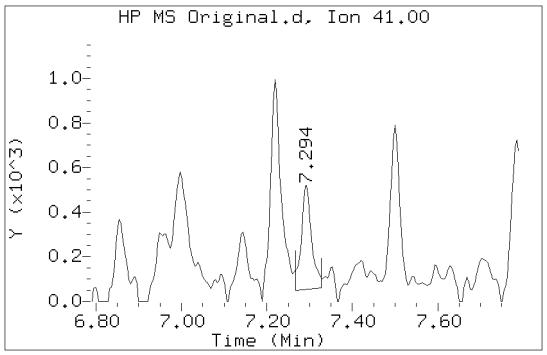
AFTER

MASS
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AREA
1247
HEIGHT
610
23-May-2024
09:51
firat
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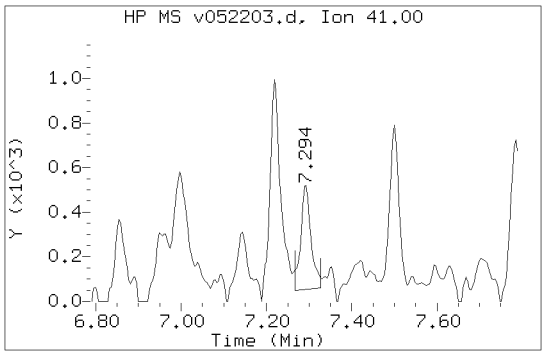
BEFORE

MASS
41
AREA
802
HEIGHT
467
23-May-2024
09:51
firat
tastan



AFTER

MASS
41
AREA
802
HEIGHT
467
23-May-2024
09:51
firat
tastan



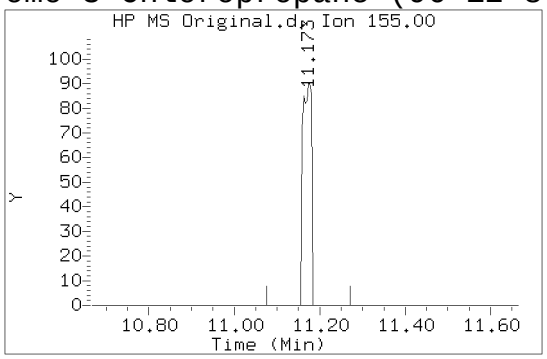
Data File : \\nahstws005\target\chem\voa9.i\u240523.b\v052203.d
Inj Date : 22-MAY-2024 20:44
InstruID : VOA9.i
LabSampID : VSTD00.5

1,2-Dibromo-3-Chloropropane (96-12-8)

Reason Code:

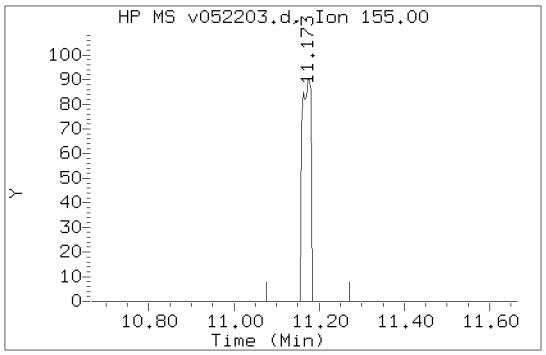
BEFORE

MASS
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AREA
132
HEIGHT
90
23-May-2024
09:51
firat
tastan



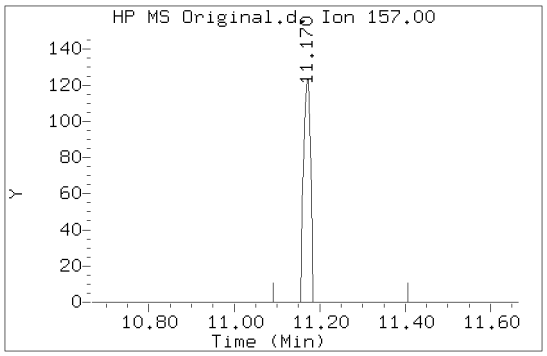
AFTER

MASS
155
AREA
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HEIGHT
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23-May-2024
09:51
firat
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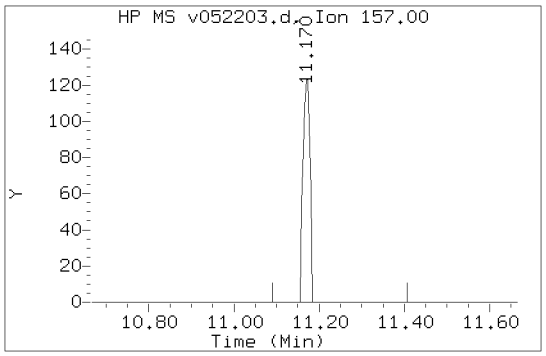
BEFORE

MASS
157
AREA
146
HEIGHT
123
23-May-2024
09:51
firat
tastan



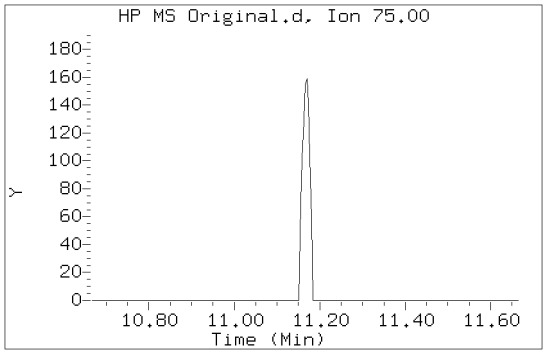
AFTER

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AREA
146
HEIGHT
123
23-May-2024
09:51
firat
tastan



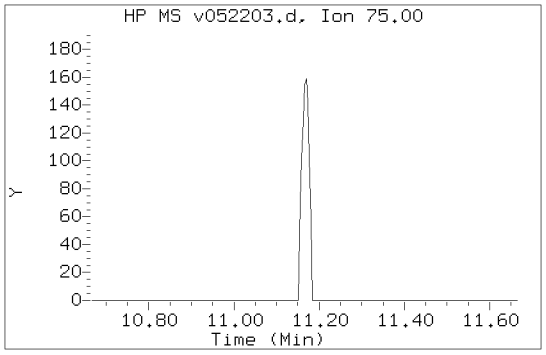
BEFORE

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75
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HEIGHT
0
23-May-2024
09:51
firat
tastan



AFTER

MASS
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AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan

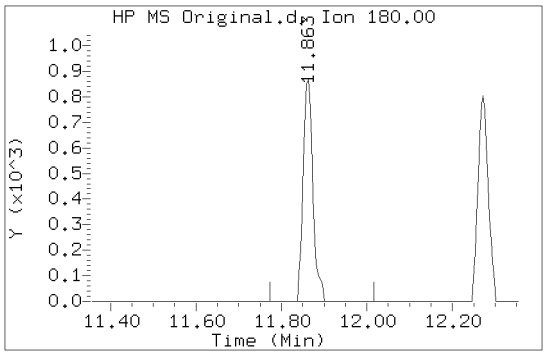


1,2,4-Trichlorobenzene (120-82-1)

Reason Code:

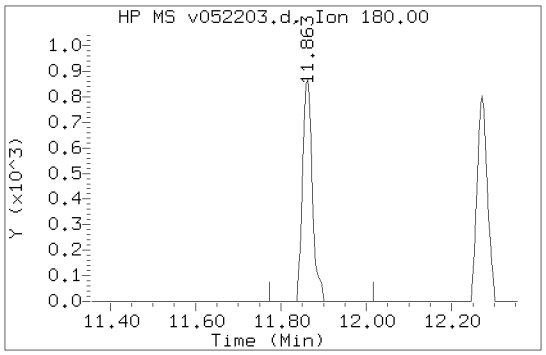
BEFORE

MASS
180
AREA
1398
HEIGHT
867
23-May-2024
09:51
firat
tastan



AFTER

MASS
180
AREA
1398
HEIGHT
867
23-May-2024
09:51
firat
tastan



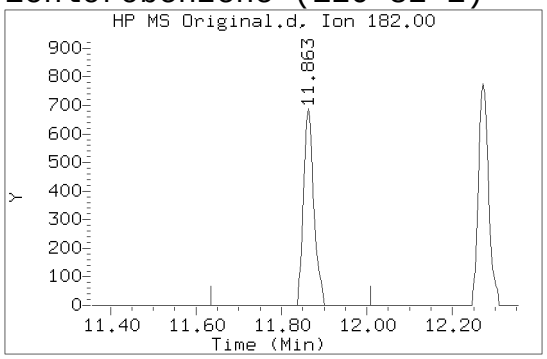
Data File : \\nahstws005\target\chem\voa9.i\u240523.b\v052203.d
Inj Date : 22-MAY-2024 20:44
InstruID : VOA9.i
LabSampID : VSTD00.5

1,2,4-Trichlorobenzene (120-82-1)

Reason Code:

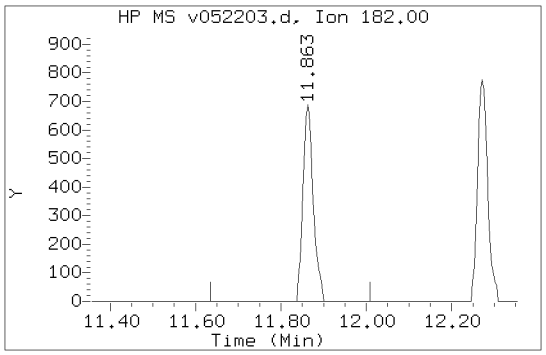
BEFORE

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AREA
1169
HEIGHT
689
23-May-2024
09:51
firat
tastan



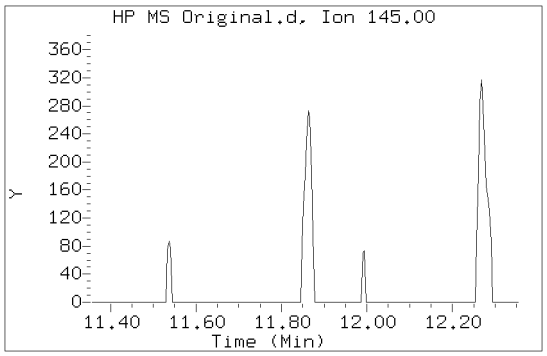
AFTER

MASS
182
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1169
HEIGHT
689
23-May-2024
09:51
firat
tastan



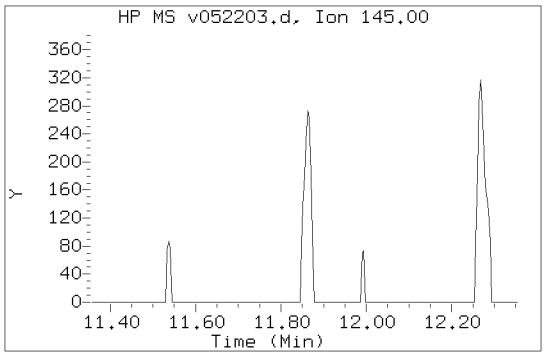
BEFORE

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145
AREA
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HEIGHT
0
23-May-2024
09:51
firat
tastan



AFTER

MASS
145
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan

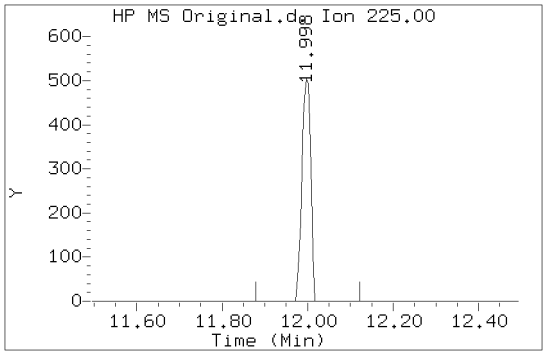


Hexachlorobutadiene (87-68-3)

Reason Code:

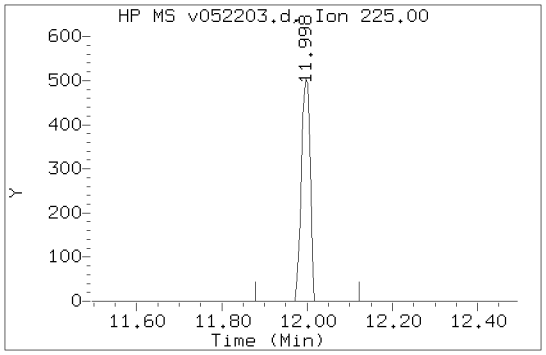
BEFORE

MASS
225
AREA
739
HEIGHT
504
23-May-2024
09:51
firat
tastan



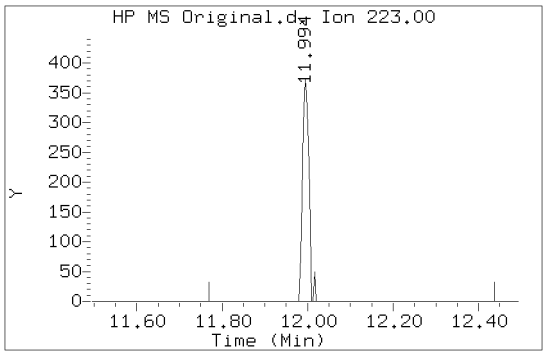
AFTER

MASS
225
AREA
739
HEIGHT
504
23-May-2024
09:51
firat
tastan



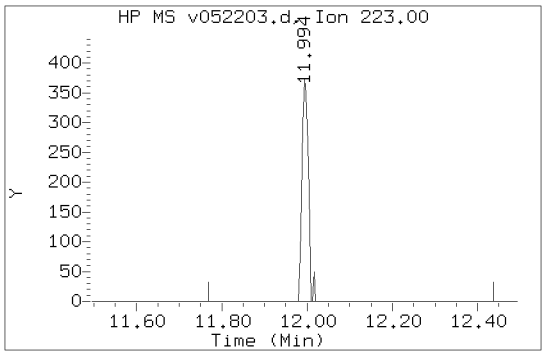
BEFORE

MASS
223
AREA
397
HEIGHT
372
23-May-2024
09:51
firat
tastan



AFTER

MASS
223
AREA
397
HEIGHT
372
23-May-2024
09:51
firat
tastan



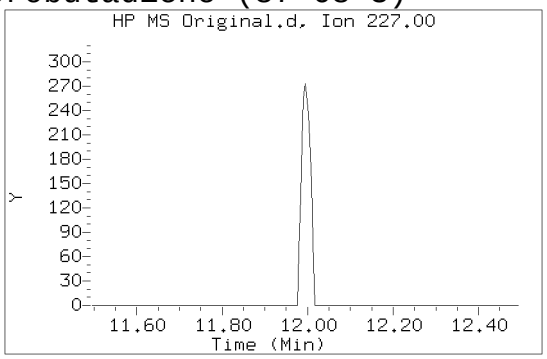
Data File : \\nahstws005\target\chem\voa9.i\u240523.b\v052203.d
Inj Date : 22-MAY-2024 20:44
InstruID : VOA9.i
LabSampID : VSTD00.5

Hexachlorobutadiene (87-68-3)

Reason Code:

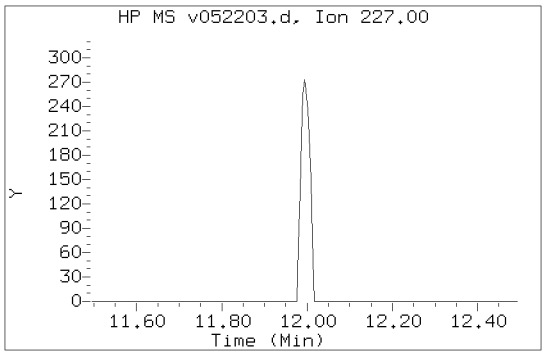
BEFORE

MASS
227
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



AFTER

MASS
227
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan

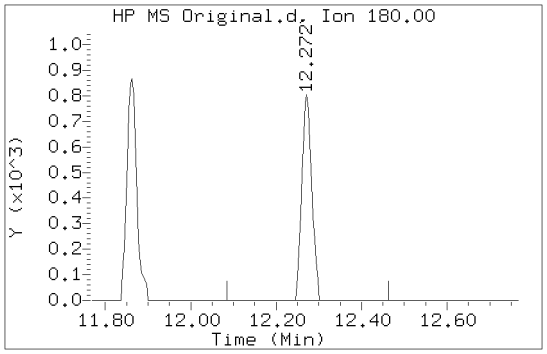


1,2,3-Trichlorobenzene (87-61-6)

Reason Code:

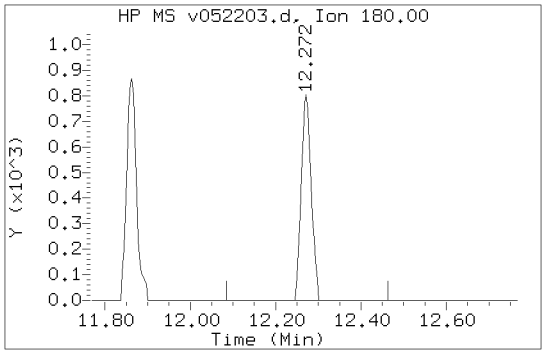
BEFORE

MASS
180
AREA
1339
HEIGHT
804
23-May-2024
09:51
firat
tastan



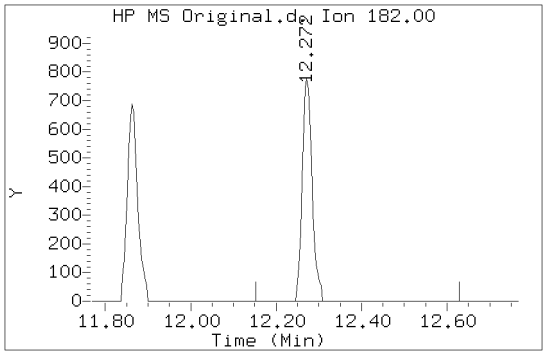
AFTER

MASS
180
AREA
1339
HEIGHT
804
23-May-2024
09:51
firat
tastan



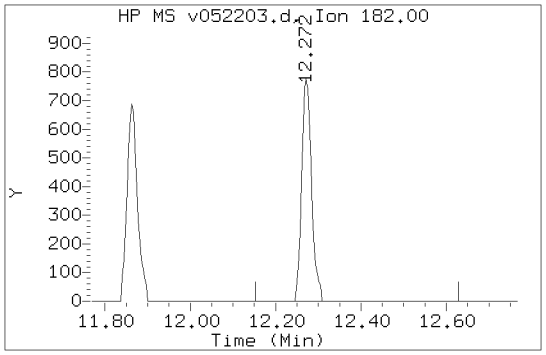
BEFORE

MASS
182
AREA
1281
HEIGHT
776
23-May-2024
09:51
firat
tastan



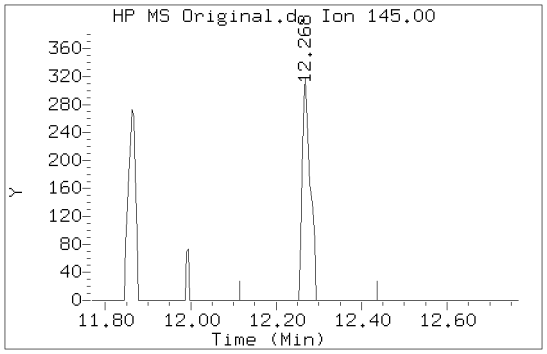
AFTER

MASS
182
AREA
1281
HEIGHT
776
23-May-2024
09:51
firat
tastan



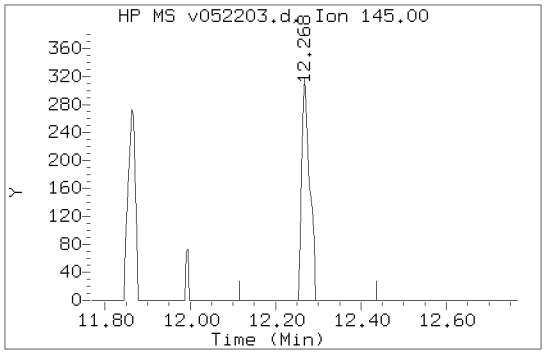
BEFORE

MASS
145
AREA
426
HEIGHT
317
23-May-2024
09:51
firat
tastan



AFTER

MASS
145
AREA
426
HEIGHT
317
23-May-2024
09:51
firat
tastan

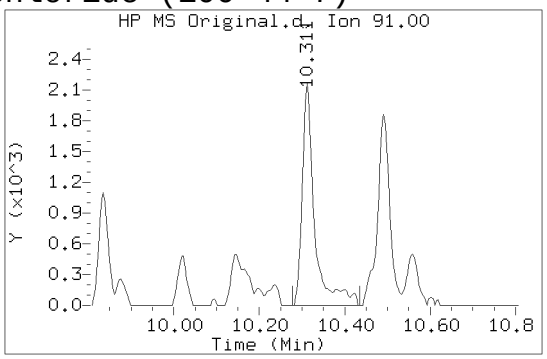


Data File : \\nahstws005\target\chem\voa9.i\u240523.b\v052203.d
Inj Date : 22-MAY-2024 20:44
InstruID : VOA9.i
LabSampID : VSTD00.5

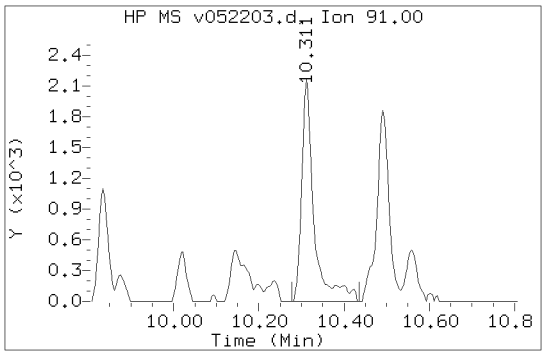
Benzyl Chloride (100-44-7)

Reason Code:

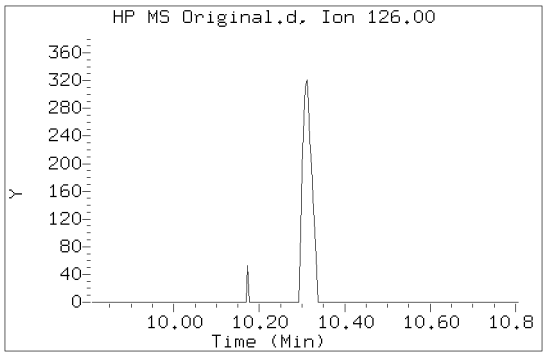
BEFORE
MASS
91
AREA
4426
HEIGHT
2162
23-May-2024
09:51
firat
tastan



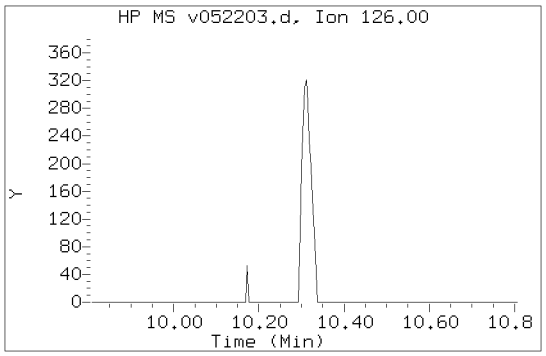
AFTER
MASS
91
AREA
4426
HEIGHT
2162
23-May-2024
09:51
firat
tastan



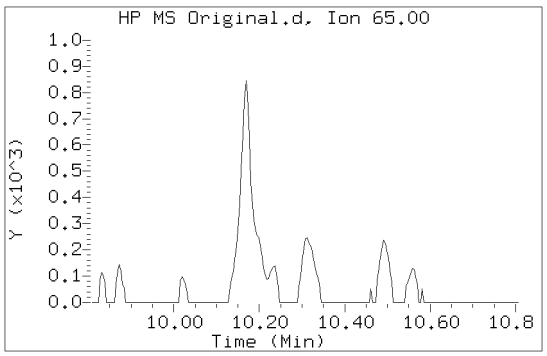
BEFORE
MASS
126
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



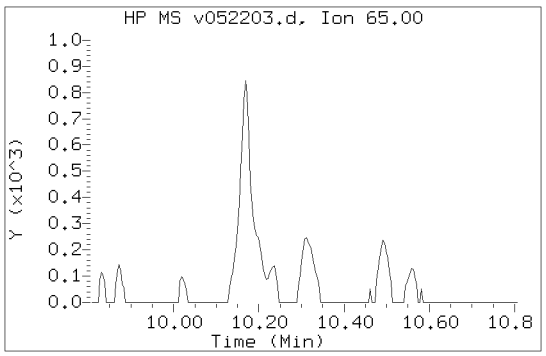
AFTER
MASS
126
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



BEFORE
MASS
65
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



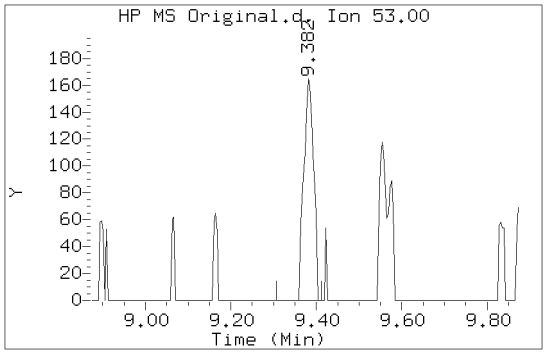
AFTER
MASS
65
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



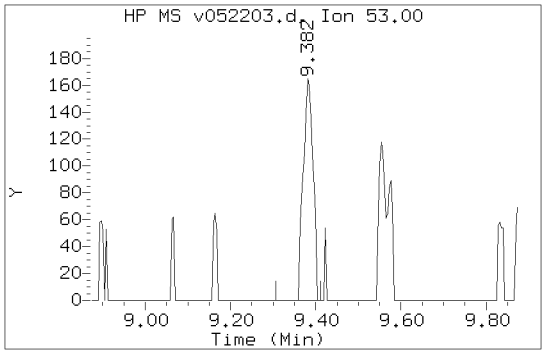
trans-1,4-Dichloro-2-butene (110-57-6)

Reason Code:

BEFORE
MASS
53
AREA
267
HEIGHT
165
23-May-2024
09:51
firat
tastan



AFTER
MASS
53
AREA
267
HEIGHT
165
23-May-2024
09:51
firat
tastan



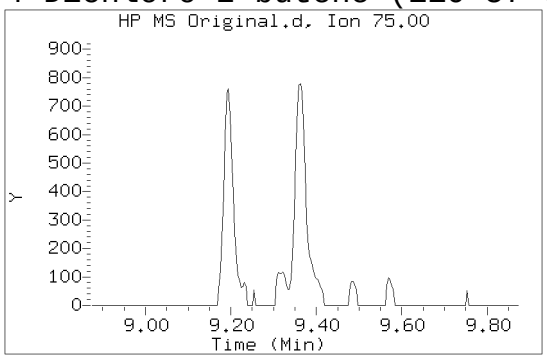
Data File : \\nahstws005\target\chem\voa9.i\u240523.b\v052203.d
Inj Date : 22-MAY-2024 20:44
InstruID : VOA9.i
LabSampID : VSTD00.5

trans-1,4-Dichloro-2-butene (110-57-6)

Reason Code:

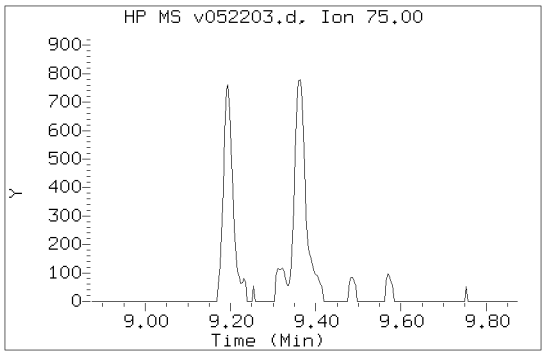
BEFORE

MASS
75
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



AFTER

MASS
75
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan

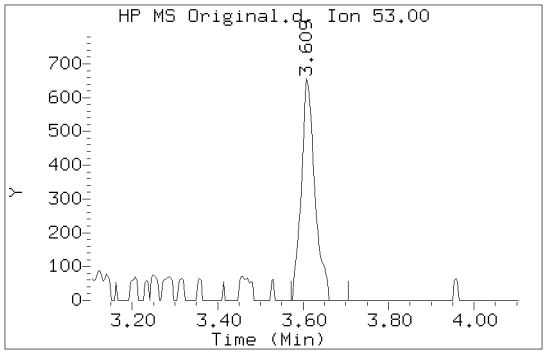


Chloroprene (126-99-8)

Reason Code:

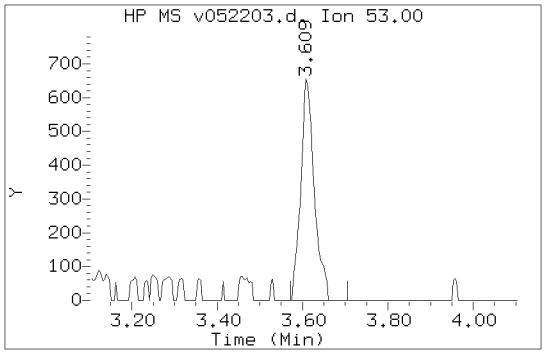
BEFORE

MASS
53
AREA
1472
HEIGHT
656
23-May-2024
09:51
firat
tastan



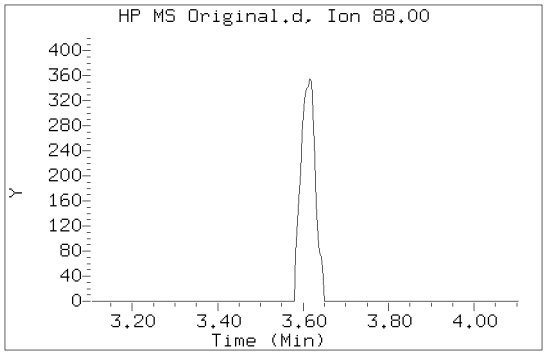
AFTER

MASS
53
AREA
1472
HEIGHT
656
23-May-2024
09:51
firat
tastan



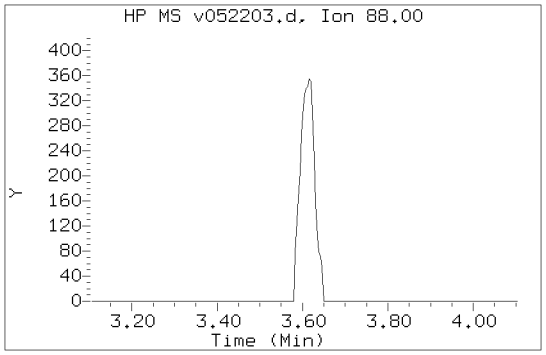
BEFORE

MASS
88
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



AFTER

MASS
88
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan

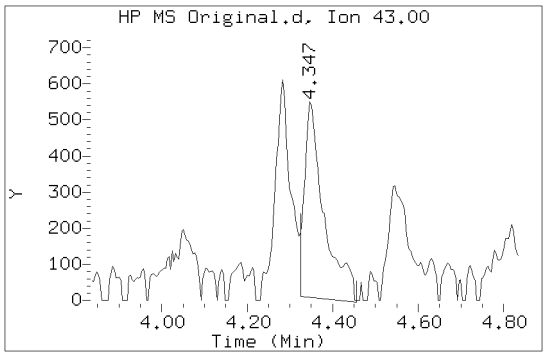


Ethyl Acetate (141-78-6)

Reason Code:

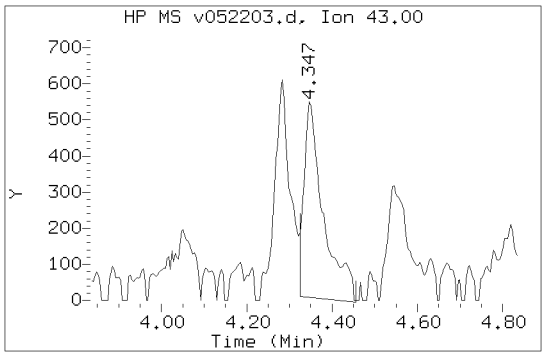
BEFORE

MASS
43
AREA
1741
HEIGHT
541
23-May-2024
09:51
firat
tastan



AFTER

MASS
43
AREA
1741
HEIGHT
541
23-May-2024
09:51
firat
tastan

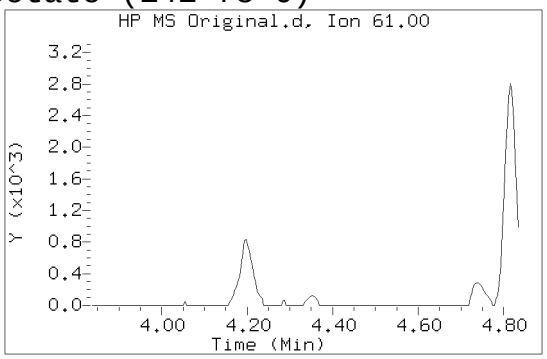


Data File : \\nahstws005\target\chem\voa9.i\u240523.b\v052203.d
Inj Date : 22-MAY-2024 20:44
InstruID : VOA9.i
LabSampID : VSTD00.5

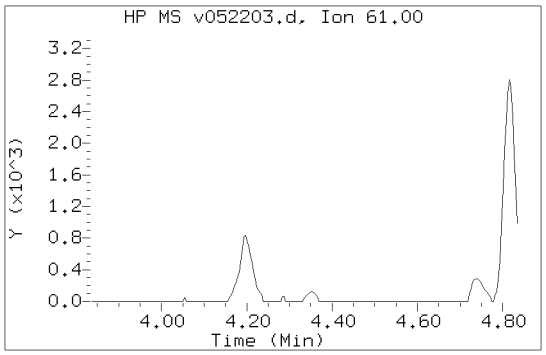
Ethyl Acetate (141-78-6)

Reason Code:

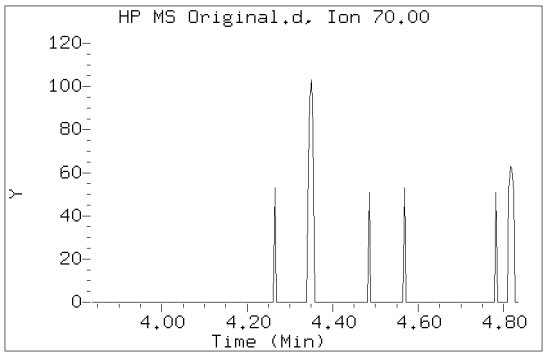
BEFORE
MASS
61
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



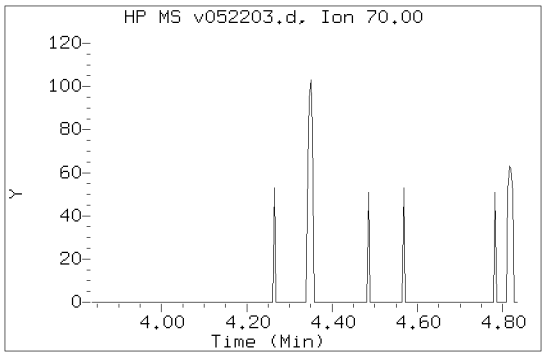
AFTER
MASS
61
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



BEFORE
MASS
70
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



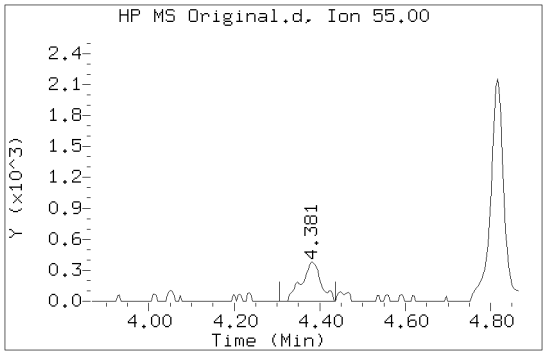
AFTER
MASS
70
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



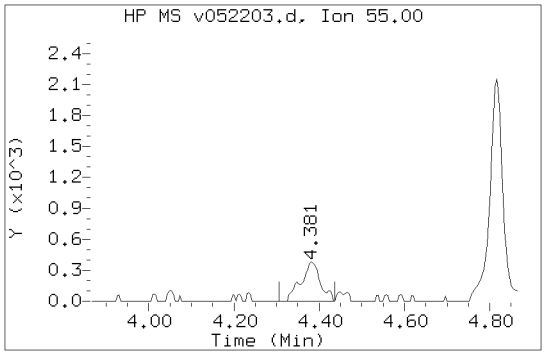
Methyl Acrylate (96-33-3)

Reason Code:

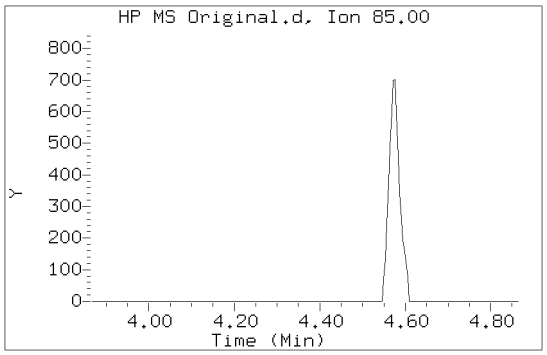
BEFORE
MASS
55
AREA
1203
HEIGHT
381
23-May-2024
09:51
firat
tastan



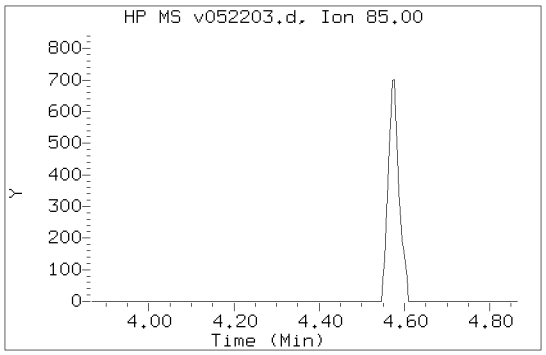
AFTER
MASS
55
AREA
1203
HEIGHT
381
23-May-2024
09:51
firat
tastan



BEFORE
MASS
85
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



AFTER
MASS
85
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



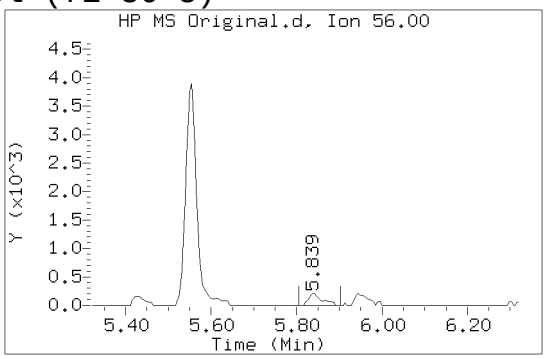
Data File : \\nahstws005\target\chem\voa9.i\u240523.b\v052203.d
Inj Date : 22-MAY-2024 20:44
InstruID : VOA9.i
LabSampID : VSTD00.5

n-Butanol (71-36-3)

Reason Code:

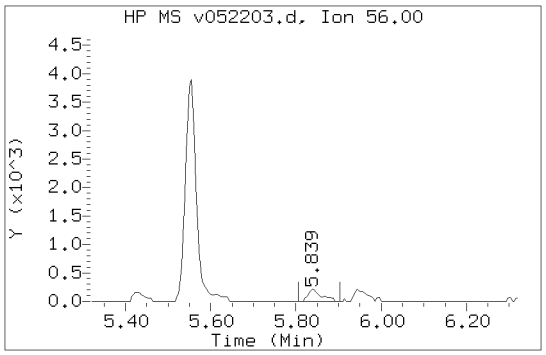
BEFORE

MASS
56
AREA
459
HEIGHT
216
23-May-2024
09:51
firat
tastan



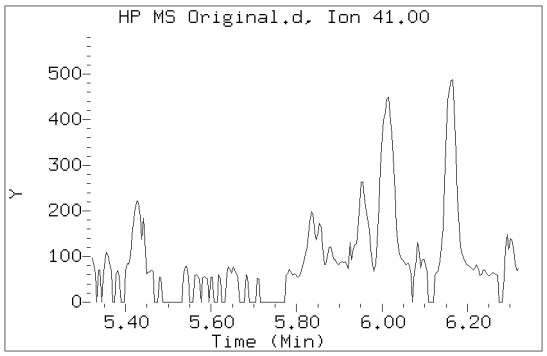
AFTER

MASS
56
AREA
459
HEIGHT
216
23-May-2024
09:51
firat
tastan



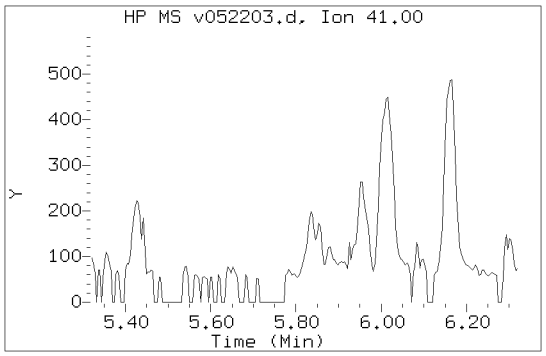
BEFORE

MASS
41
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



AFTER

MASS
41
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan

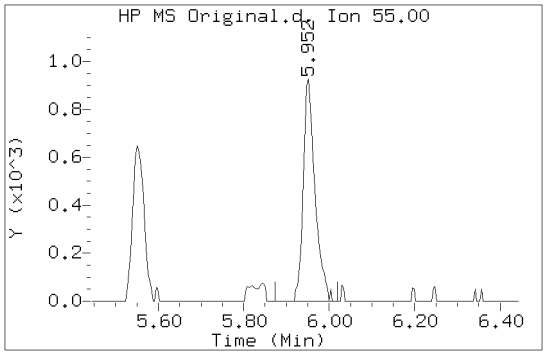


Ethyl Acrylate (140-88-5)

Reason Code:

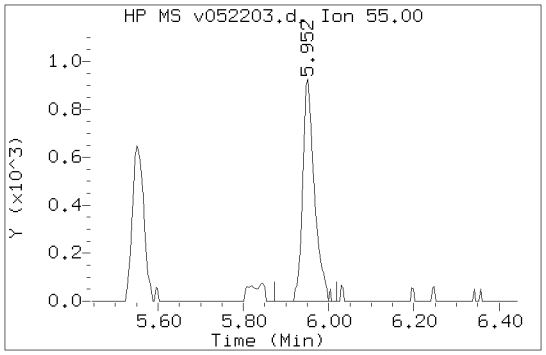
BEFORE

MASS
55
AREA
1789
HEIGHT
927
23-May-2024
09:51
firat
tastan



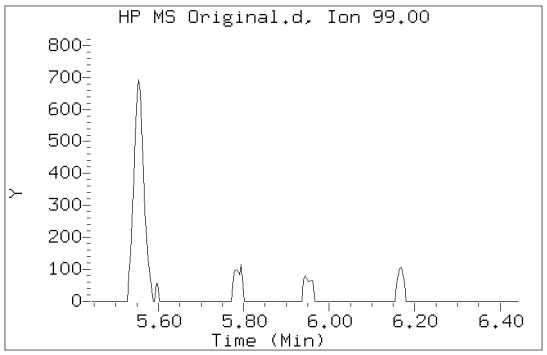
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AREA
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HEIGHT
927
23-May-2024
09:51
firat
tastan



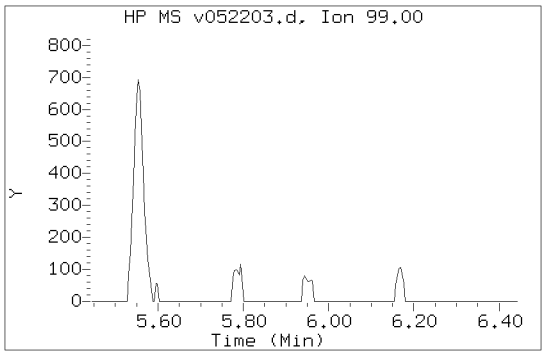
BEFORE

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AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



AFTER

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AREA
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HEIGHT
0
23-May-2024
09:51
firat
tastan



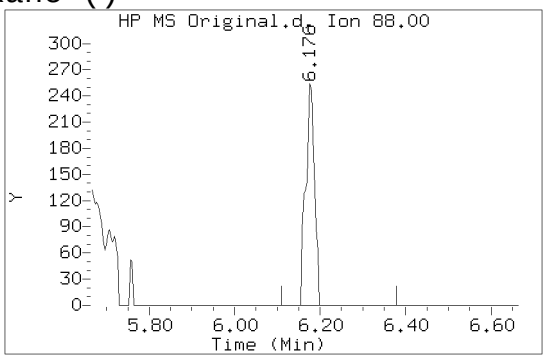
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Inj Date : 22-MAY-2024 20:44
InstruID : VOA9.i
LabSampID : VSTD00.5

1,4-Dioxane ()

Reason Code:

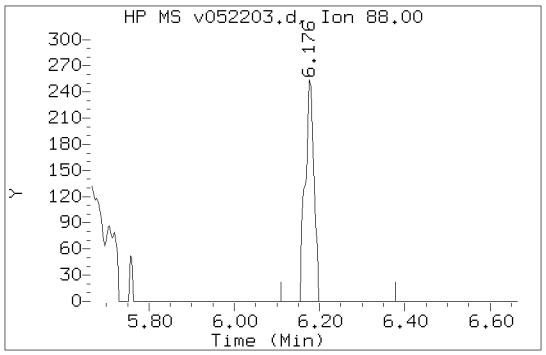
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374
HEIGHT
254
23-May-2024
09:51
firat
tastan



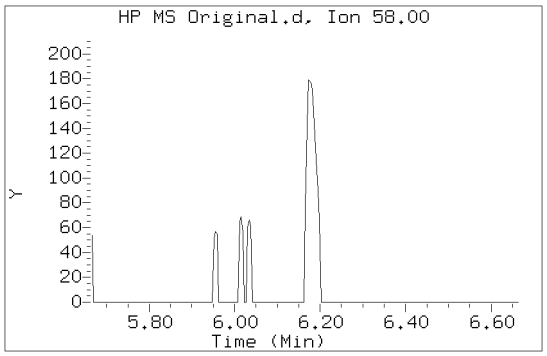
AFTER

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23-May-2024
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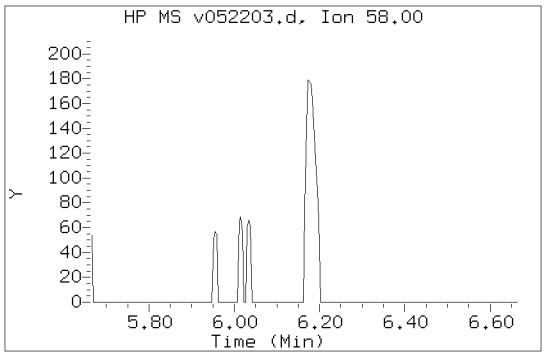
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HEIGHT
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23-May-2024
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AFTER

MASS
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AREA
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HEIGHT
0
23-May-2024
09:51
firat
tastan

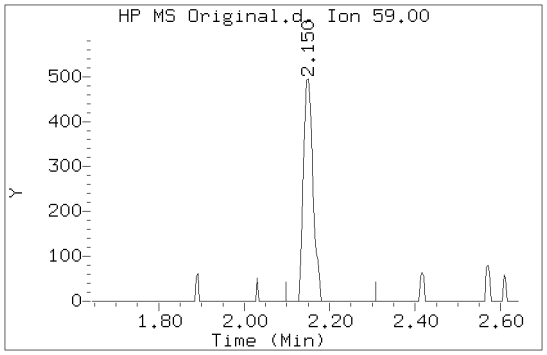


Diethyl ether (60-29-7)

Reason Code:

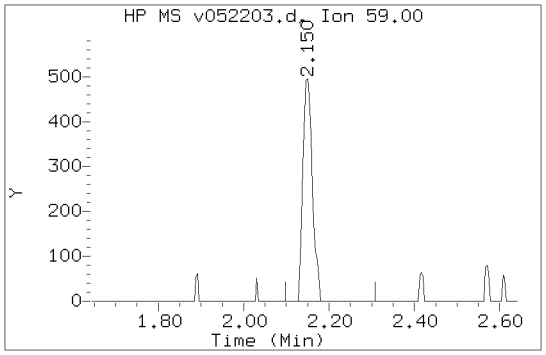
BEFORE

MASS
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AREA
778
HEIGHT
495
23-May-2024
09:51
firat
tastan



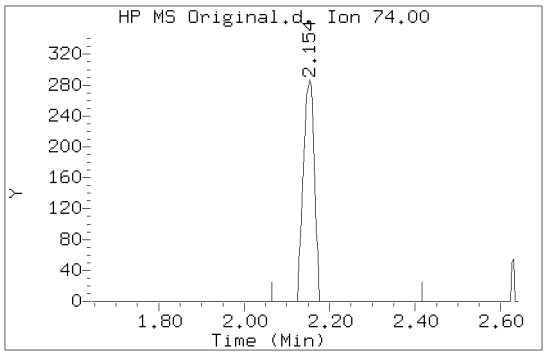
AFTER

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HEIGHT
495
23-May-2024
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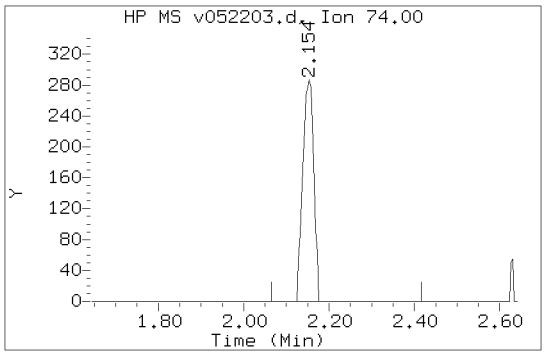
BEFORE

MASS
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AREA
519
HEIGHT
287
23-May-2024
09:51
firat
tastan



AFTER

MASS
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AREA
519
HEIGHT
287
23-May-2024
09:51
firat
tastan



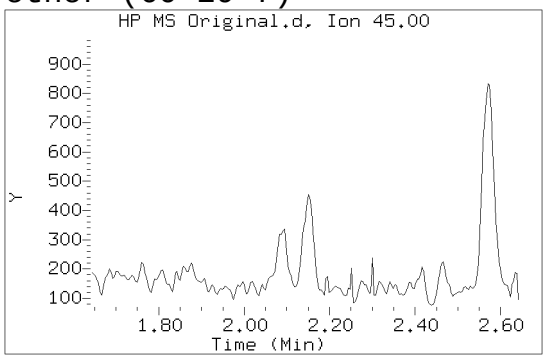
Data File : \\nahstws005\target\chem\voa9.i\u240523.b\v052203.d
Inj Date : 22-MAY-2024 20:44
InstruID : VOA9.i
LabSampID : VSTD00.5

Diethyl ether (60-29-7)

Reason Code:

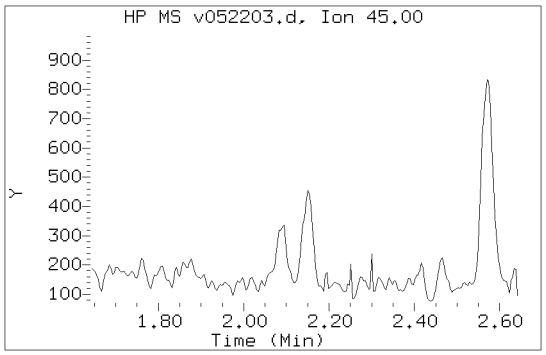
BEFORE

MASS
45
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



AFTER

MASS
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AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan

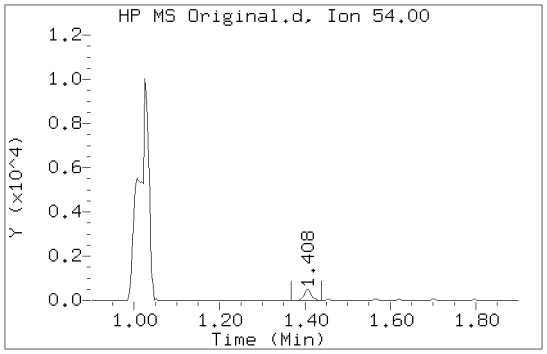


1,3-Butadiene (106-99-0)

Reason Code:

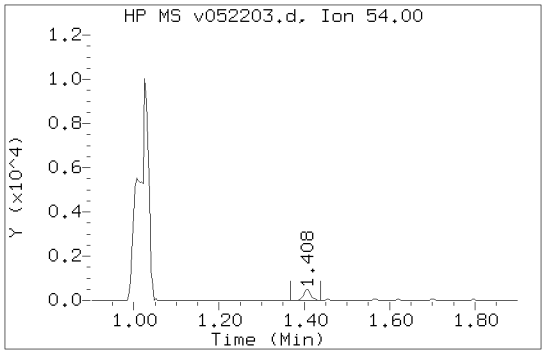
BEFORE

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54
AREA
594
HEIGHT
505
23-May-2024
09:51
firat
tastan



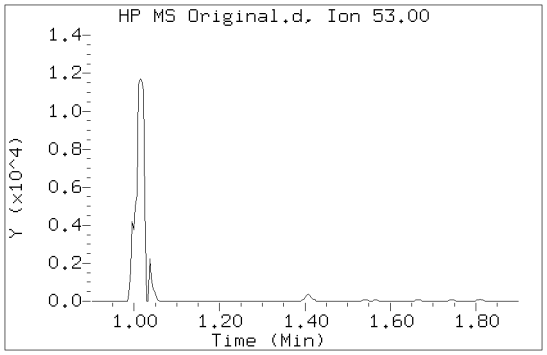
AFTER

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AREA
594
HEIGHT
505
23-May-2024
09:51
firat
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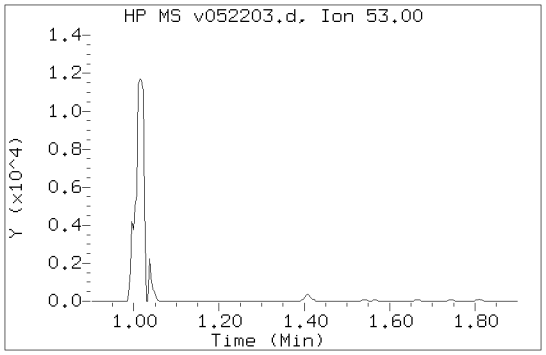
BEFORE

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AREA
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HEIGHT
0
23-May-2024
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firat
tastan



AFTER

MASS
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AREA
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HEIGHT
0
23-May-2024
09:51
firat
tastan

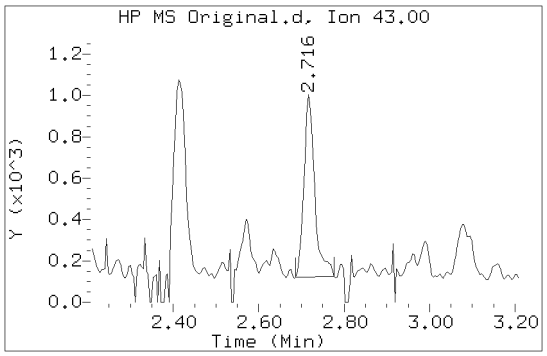


Methyl acetate (79-20-9)

Reason Code:

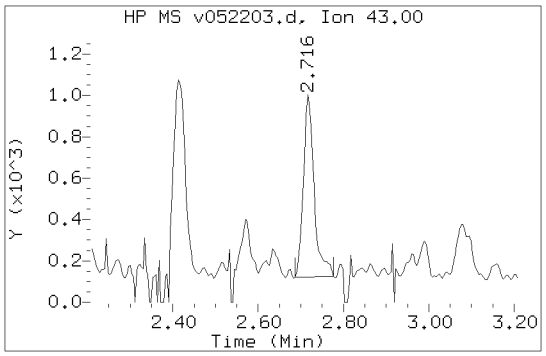
BEFORE

MASS
43
AREA
1546
HEIGHT
880
23-May-2024
09:51
firat
tastan



AFTER

MASS
43
AREA
1546
HEIGHT
880
23-May-2024
09:51
firat
tastan



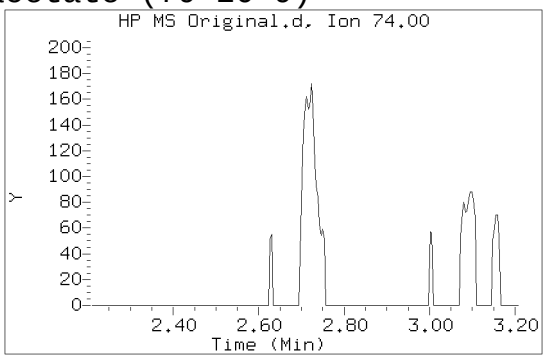
Data File : \\nahstws005\target\chem\voa9.i\u240523.b\v052203.d
Inj Date : 22-MAY-2024 20:44
InstruID : VOA9.i
LabSampID : VSTD00.5

Methyl acetate (79-20-9)

Reason Code:

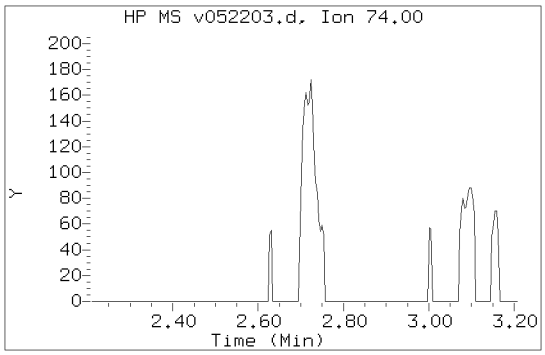
BEFORE

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AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



AFTER

MASS
74
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan

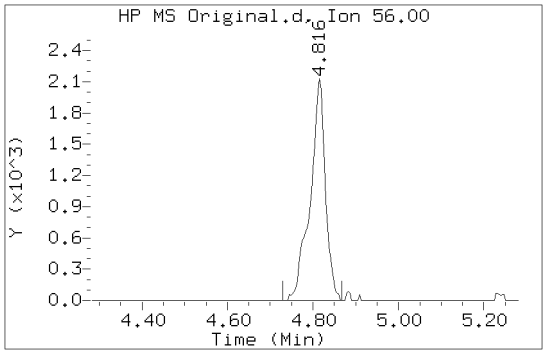


Cyclohexane (110-82-7)

Reason Code:

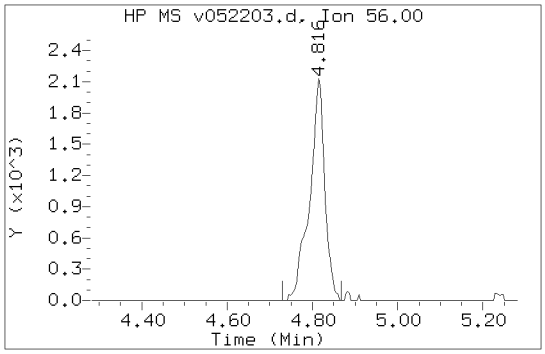
BEFORE

MASS
56
AREA
5290
HEIGHT
2129
23-May-2024
09:51
firat
tastan



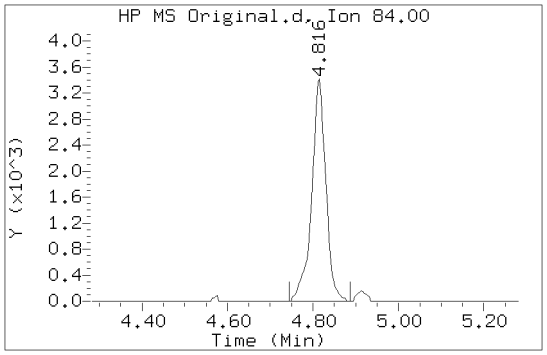
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HEIGHT
2129
23-May-2024
09:51
firat
tastan



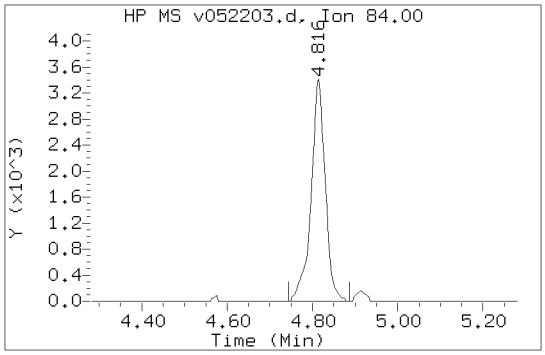
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7895
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3416
23-May-2024
09:51
firat
tastan



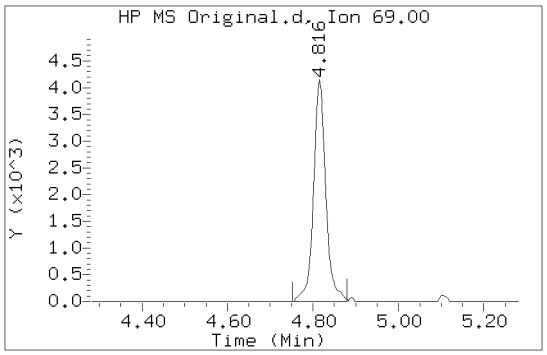
AFTER

MASS
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AREA
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HEIGHT
3416
23-May-2024
09:51
firat
tastan



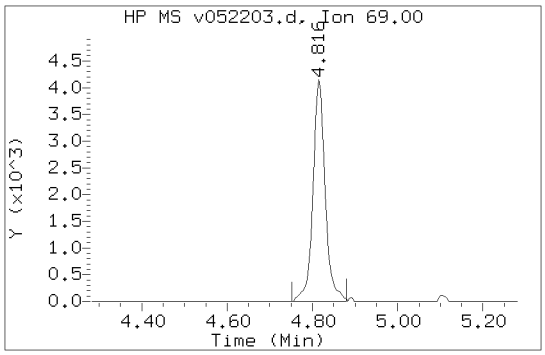
BEFORE

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69
AREA
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HEIGHT
4148
23-May-2024
09:51
firat
tastan



AFTER

MASS
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AREA
8283
HEIGHT
4148
23-May-2024
09:51
firat
tastan



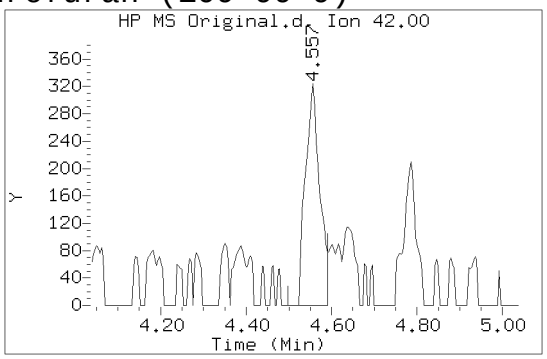
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Inj Date : 22-MAY-2024 20:44
InstruID : VOA9.i
LabSampID : VSTD00.5

Tetrahydrofuran (109-99-9)

Reason Code:

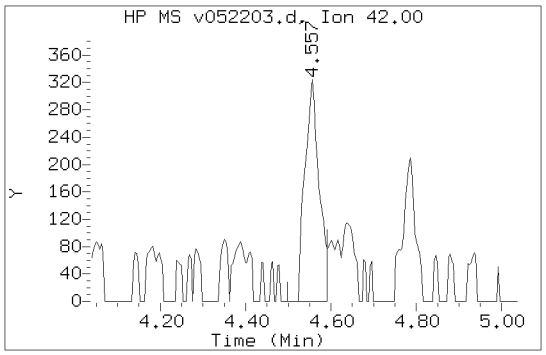
BEFORE

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AREA
763
HEIGHT
324
23-May-2024
09:51
firat
tastan



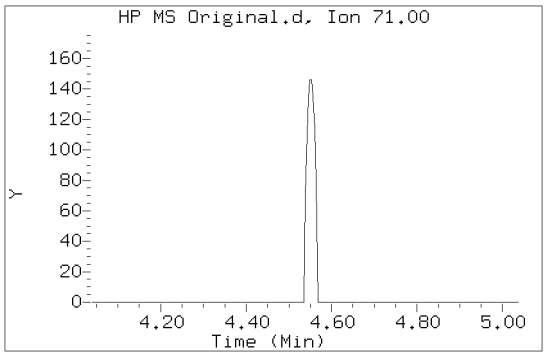
AFTER

MASS
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763
HEIGHT
324
23-May-2024
09:51
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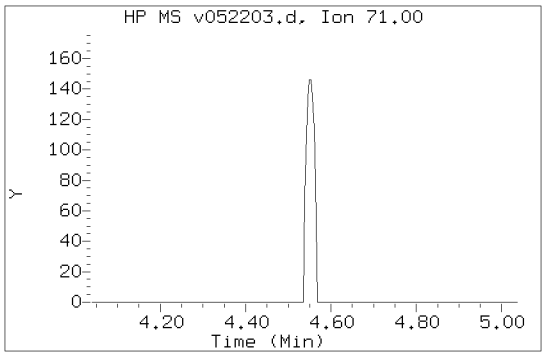
BEFORE

MASS
71
AREA
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HEIGHT
0
23-May-2024
09:51
firat
tastan



AFTER

MASS
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AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan

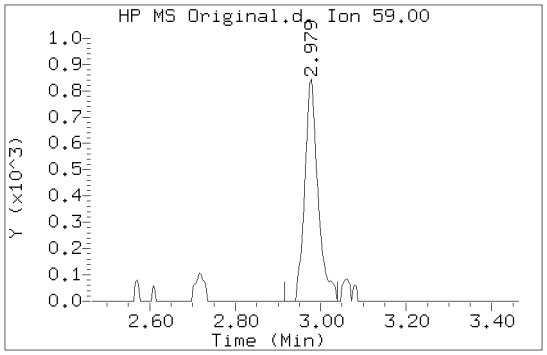


Tert-butyl alcohol (75-65-0)

Reason Code:

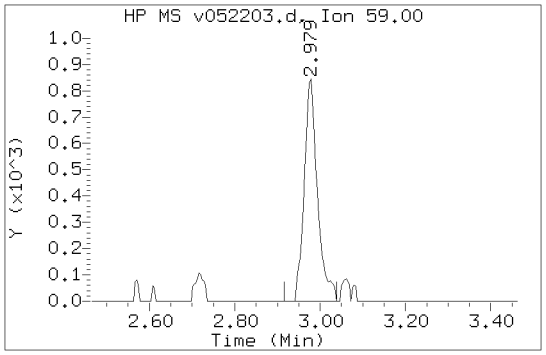
BEFORE

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AREA
1855
HEIGHT
845
23-May-2024
09:51
firat
tastan



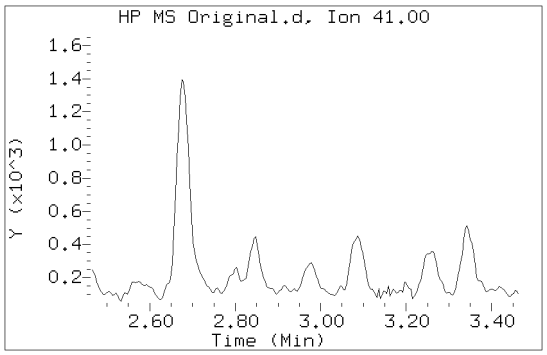
AFTER

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HEIGHT
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23-May-2024
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firat
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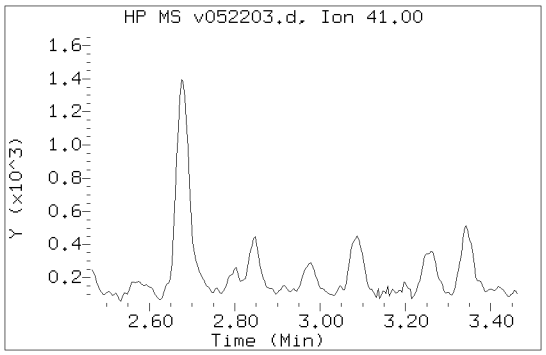
BEFORE

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41
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HEIGHT
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23-May-2024
09:51
firat
tastan



AFTER

MASS
41
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan

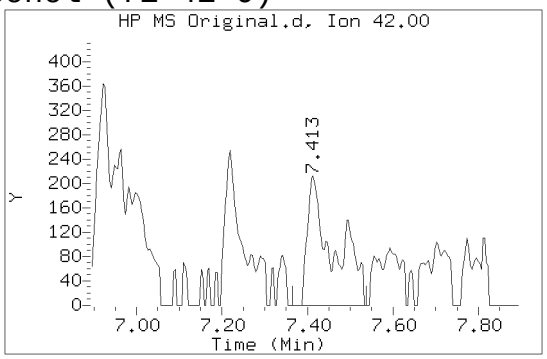


Data File : \\nahstws005\target\chem\voa9.i\u240523.b\v052203.d
Inj Date : 22-MAY-2024 20:44
InstruID : VOA9.i
LabSampID : VSTD00.5

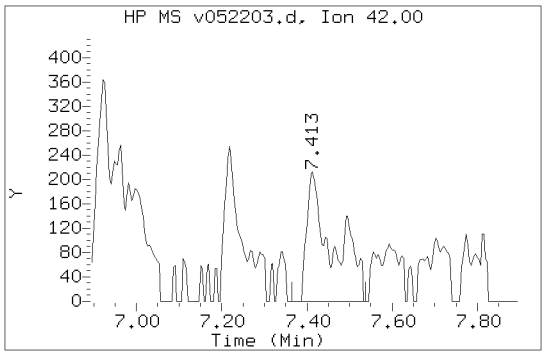
Amyl alcohol (71-41-0)

Reason Code:

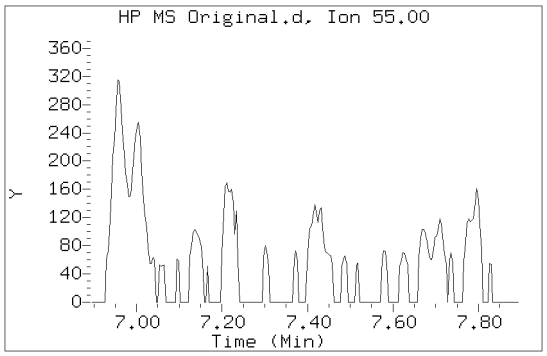
BEFORE
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AREA
903
HEIGHT
213
23-May-2024
09:51
firat
tastan



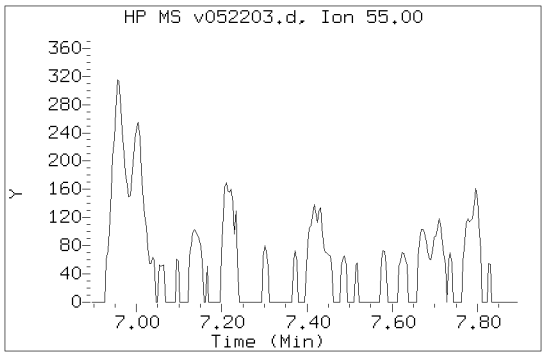
AFTER
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HEIGHT
213
23-May-2024
09:51
firat
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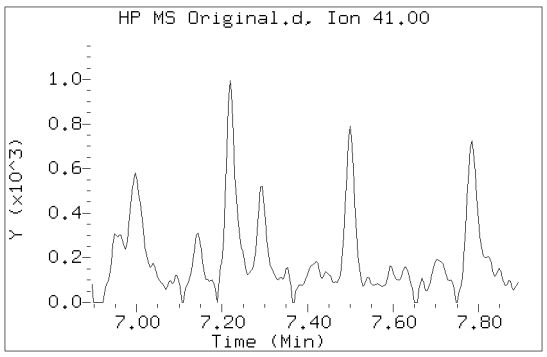
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HEIGHT
0
23-May-2024
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firat
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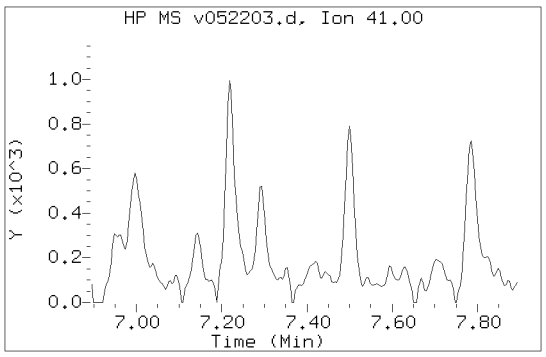
AFTER
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AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



BEFORE
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41
AREA
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HEIGHT
0
23-May-2024
09:51
firat
tastan



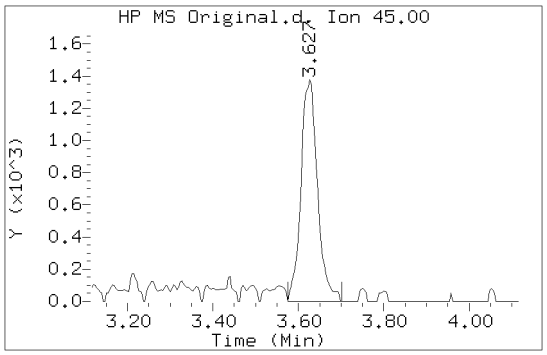
AFTER
MASS
41
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



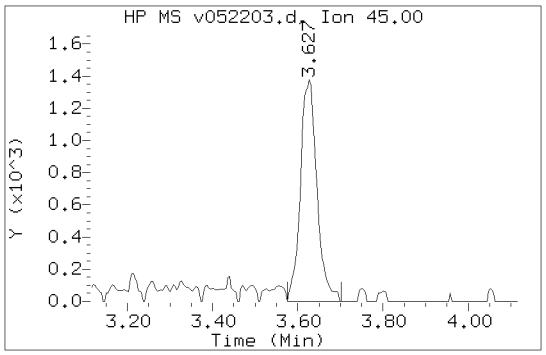
Diisopropyl ether (108-20-3)

Reason Code:

BEFORE
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AREA
3742
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1378
23-May-2024
09:51
firat
tastan



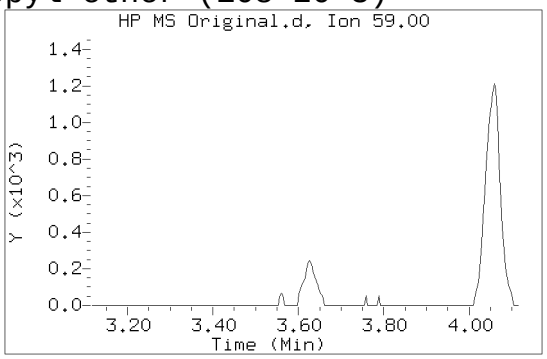
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AREA
3742
HEIGHT
1378
23-May-2024
09:51
firat
tastan



Data File : \\nahstws005\target\chem\voa9.i\u240523.b\v052203.d
Inj Date : 22-MAY-2024 20:44
InstruID : VOA9.i
LabSampID : VSTD00.5

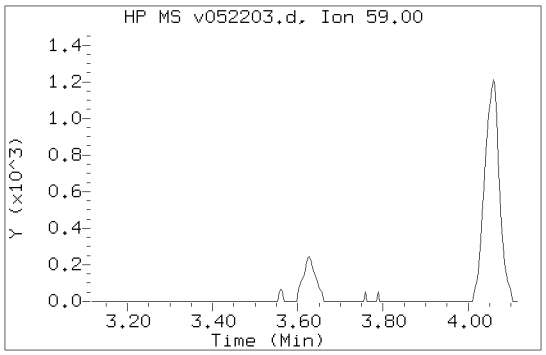
Diisopropyl ether (108-20-3)

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23-May-2024
09:51
firat
tastan

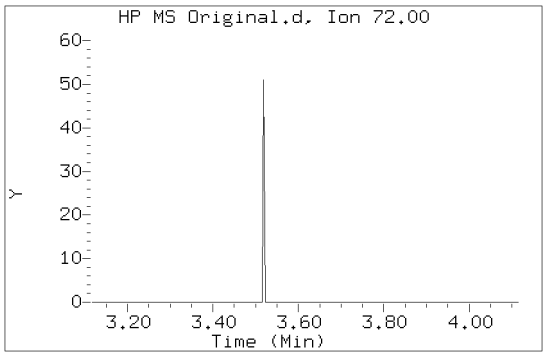


Reason Code:

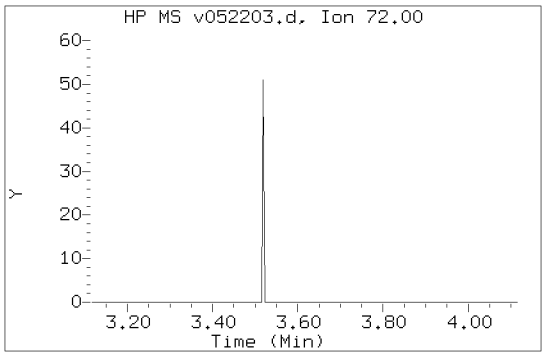
AFTER
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HEIGHT
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23-May-2024
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BEFORE
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HEIGHT
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23-May-2024
09:51
firat
tastan



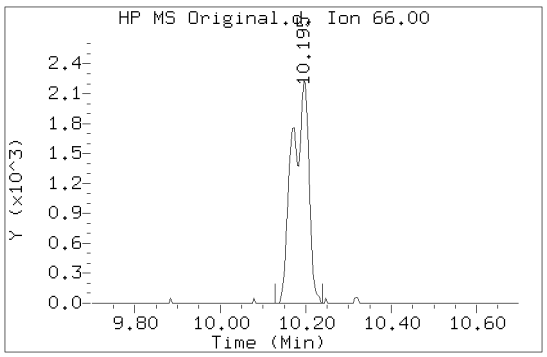
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23-May-2024
09:51
firat
tastan



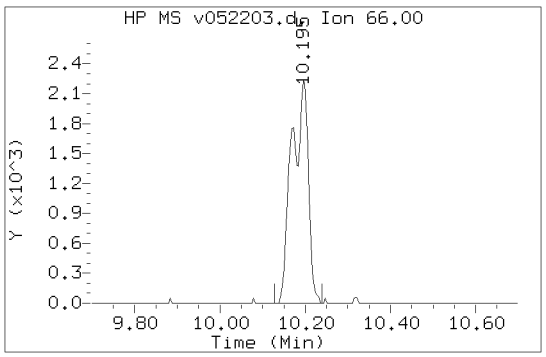
Dicyclopentadiene (77-73-6)

Reason Code:

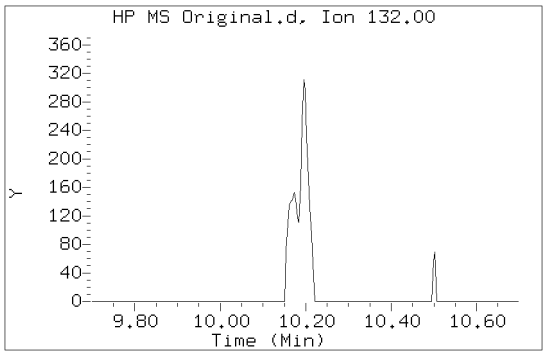
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MASS
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6100
HEIGHT
2228
23-May-2024
09:51
firat
tastan



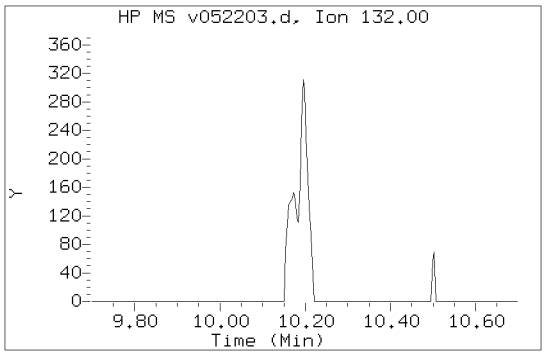
AFTER
MASS
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AREA
6100
HEIGHT
2228
23-May-2024
09:51
firat
tastan



BEFORE
MASS
132
AREA
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HEIGHT
0
23-May-2024
09:51
firat
tastan



AFTER
MASS
132
AREA
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HEIGHT
0
23-May-2024
09:51
firat
tastan



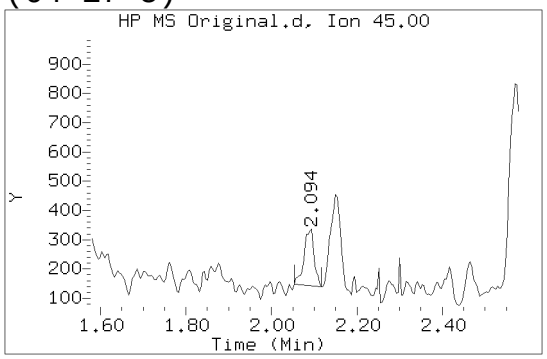
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Inj Date : 22-MAY-2024 20:44
InstruID : VOA9.i
LabSampID : VSTD00.5

Ethanol (64-17-5)

Reason Code:

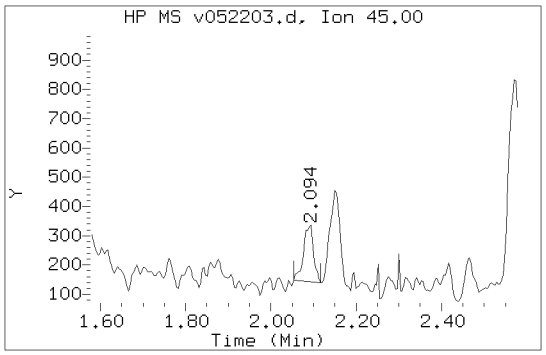
BEFORE

MASS
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AREA
322
HEIGHT
193
23-May-2024
09:51
firat
tastan



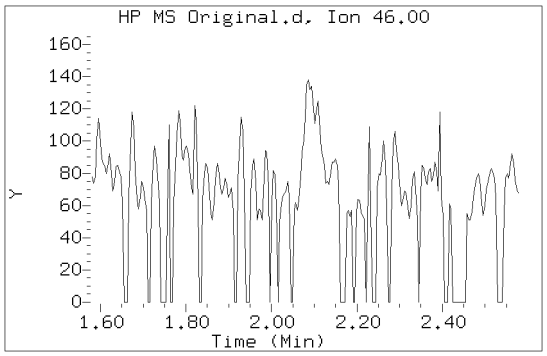
AFTER

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193
23-May-2024
09:51
firat
tastan



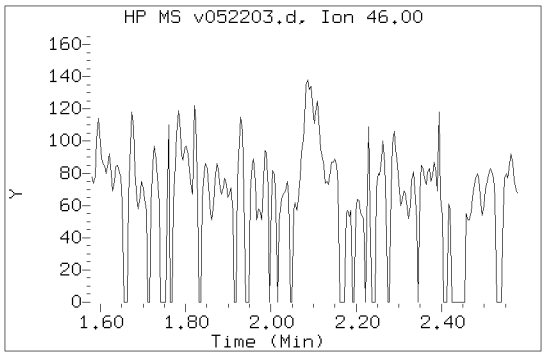
BEFORE

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HEIGHT
0
23-May-2024
09:51
firat
tastan



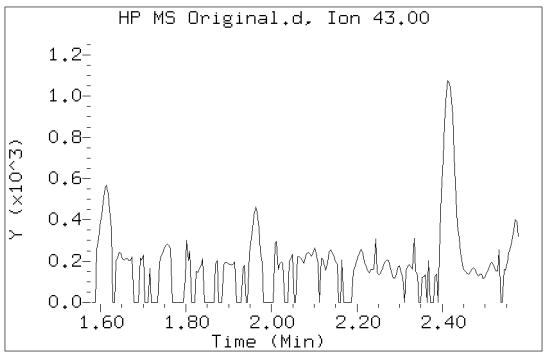
AFTER

MASS
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HEIGHT
0
23-May-2024
09:51
firat
tastan



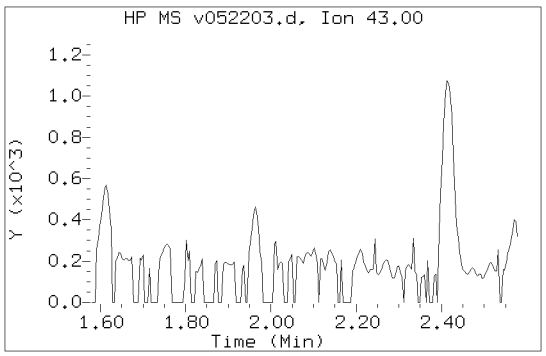
BEFORE

MASS
43
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



AFTER

MASS
43
AREA
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HEIGHT
0
23-May-2024
09:51
firat
tastan

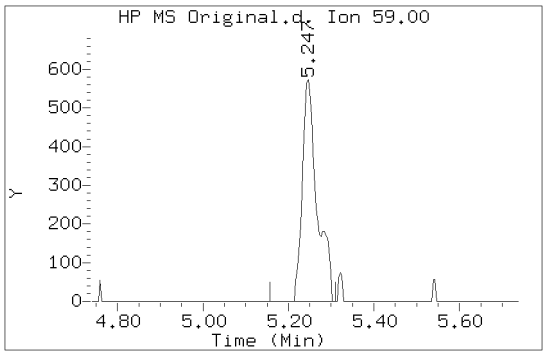


tert-Butyl formate (762-75-4)

Reason Code:

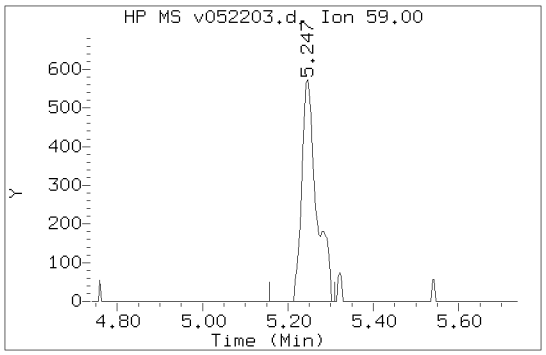
BEFORE

MASS
59
AREA
1386
HEIGHT
573
23-May-2024
09:51
firat
tastan



AFTER

MASS
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AREA
1386
HEIGHT
573
23-May-2024
09:51
firat
tastan

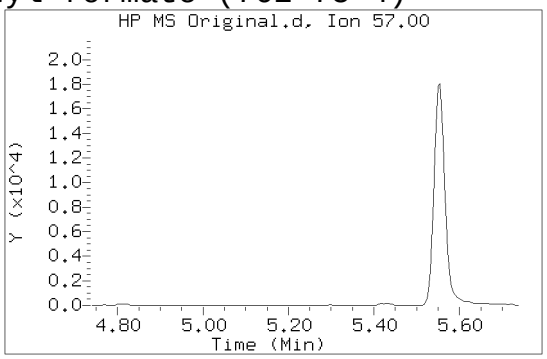


Data File : \\nahstws005\target\chem\voa9.i\u240523.b\v052203.d
Inj Date : 22-MAY-2024 20:44
InstruID : VOA9.i
LabSampID : VSTD00.5

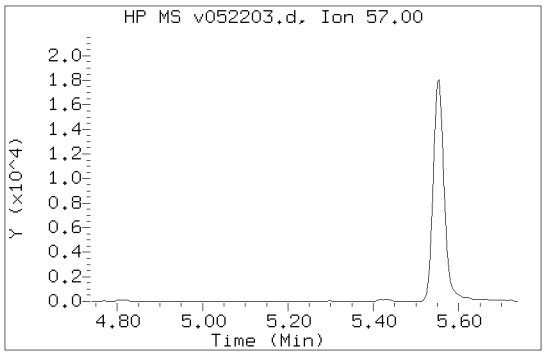
tert-Butyl formate (762-75-4)

Reason Code:

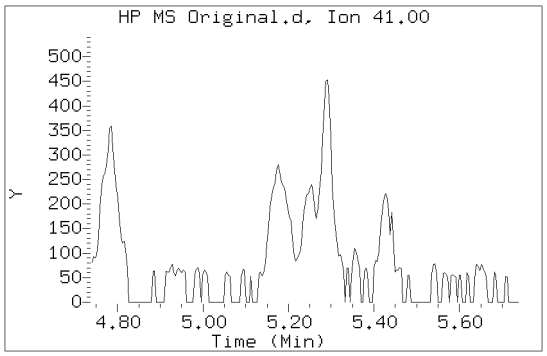
BEFORE
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23-May-2024
09:51
firat
tastan



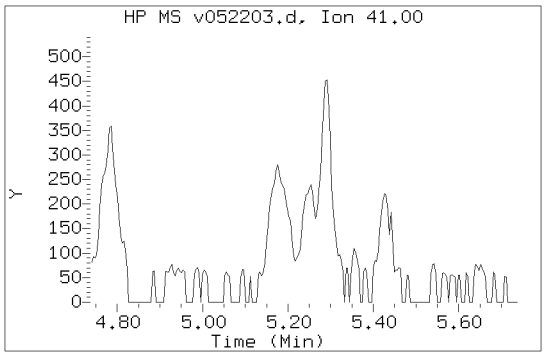
AFTER
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AREA
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HEIGHT
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23-May-2024
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firat
tastan



BEFORE
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AREA
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HEIGHT
0
23-May-2024
09:51
firat
tastan



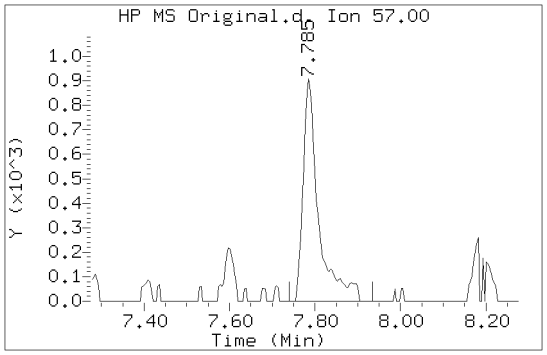
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23-May-2024
09:51
firat
tastan



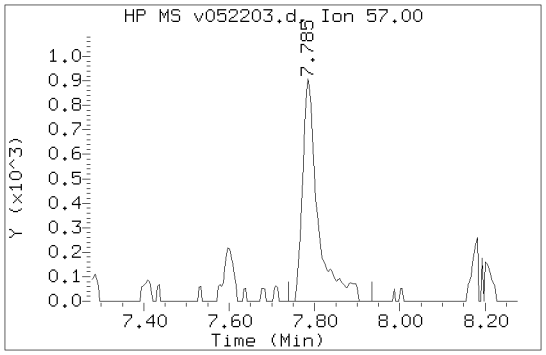
3,3-Dimethyl-1-butanol (624-95-3)

Reason Code:

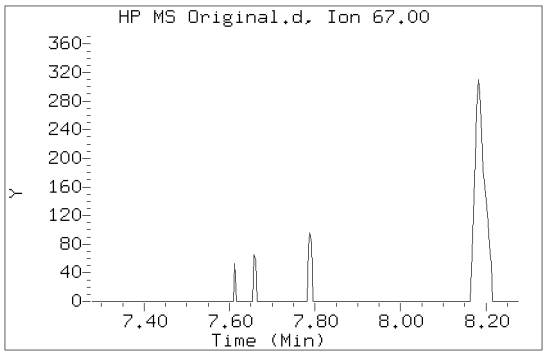
BEFORE
MASS
57
AREA
2315
HEIGHT
908
23-May-2024
09:51
firat
tastan



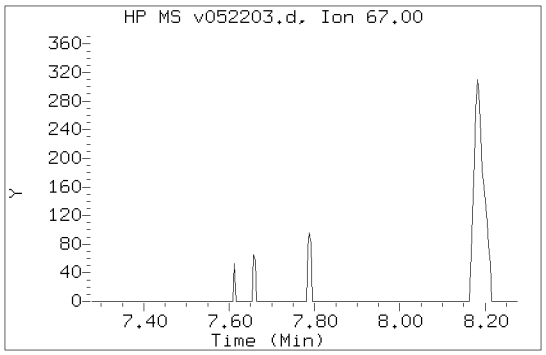
AFTER
MASS
57
AREA
2315
HEIGHT
908
23-May-2024
09:51
firat
tastan



BEFORE
MASS
67
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



AFTER
MASS
67
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



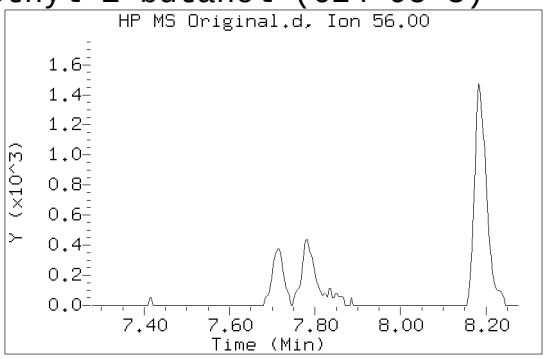
Data File : \\nahstws005\target\chem\voa9.i\u240523.b\v052203.d
Inj Date : 22-MAY-2024 20:44
InstruID : VOA9.i
LabSampID : VSTD00.5

3,3-Dimethyl-1-butanol (624-95-3)

Reason Code:

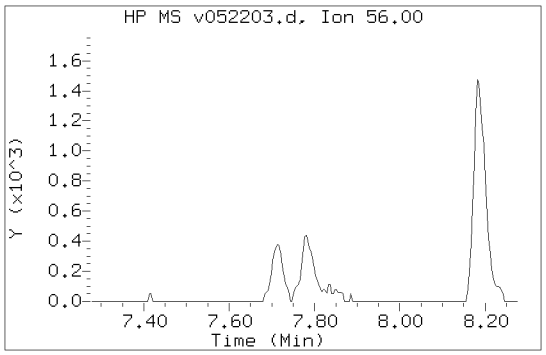
BEFORE

MASS
56
AREA
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HEIGHT
0
23-May-2024
09:51
firat
tastan



AFTER

MASS
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AREA
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HEIGHT
0
23-May-2024
09:51
firat
tastan

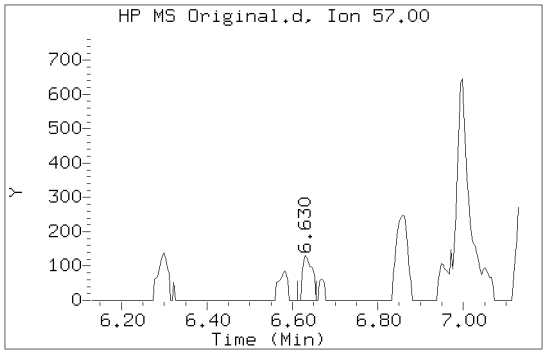


Epichlorohydrin (106-89-8)

Reason Code:

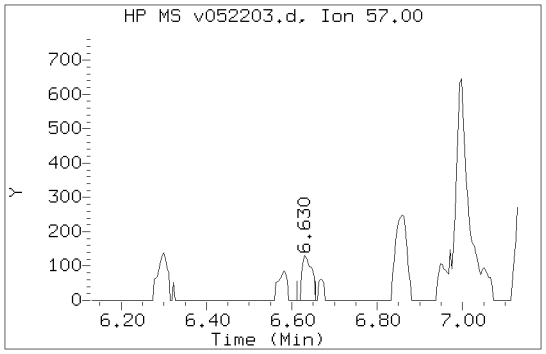
BEFORE

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AREA
205
HEIGHT
130
23-May-2024
09:51
firat
tastan



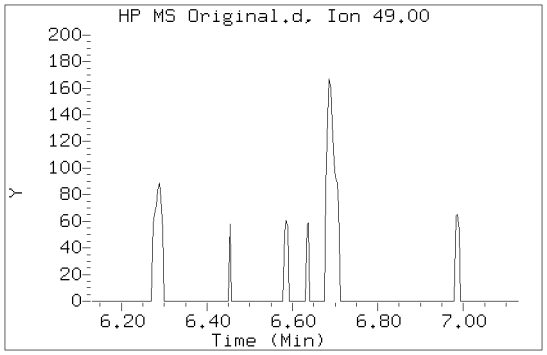
AFTER

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205
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23-May-2024
09:51
firat
tastan



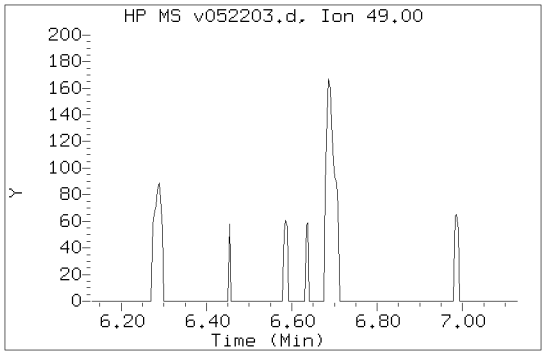
BEFORE

MASS
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HEIGHT
0
23-May-2024
09:51
firat
tastan



AFTER

MASS
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AREA
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HEIGHT
0
23-May-2024
09:51
firat
tastan

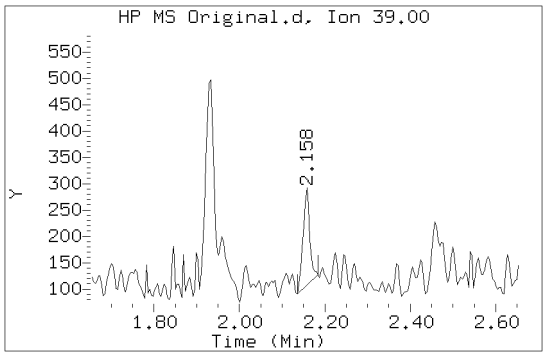


Isoprene (78-79-5)

Reason Code:

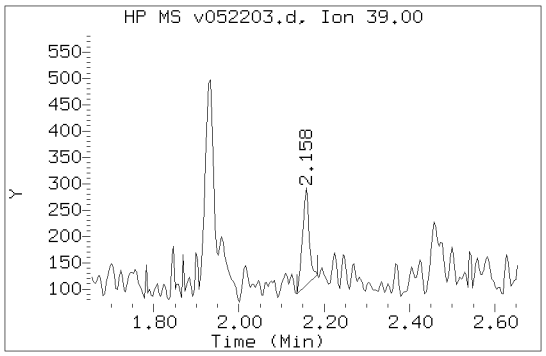
BEFORE

MASS
39
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204
HEIGHT
184
23-May-2024
09:51
firat
tastan



AFTER

MASS
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AREA
204
HEIGHT
184
23-May-2024
09:51
firat
tastan



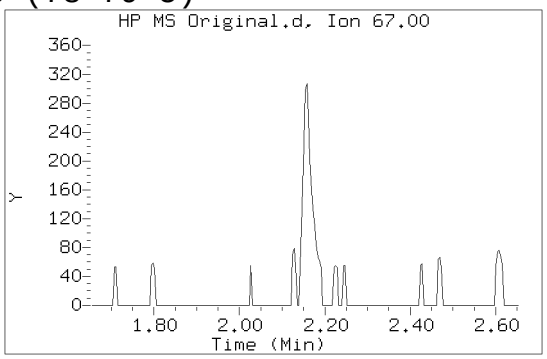
Data File : \\nahstws005\target\chem\voa9.i\u240523.b\v052203.d
Inj Date : 22-MAY-2024 20:44
InstruID : VOA9.i
LabSampID : VSTD00.5

Isoprene (78-79-5)

Reason Code:

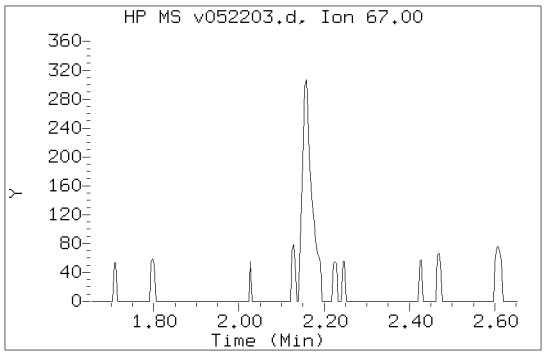
BEFORE

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67
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HEIGHT
0
23-May-2024
09:51
firat
tastan



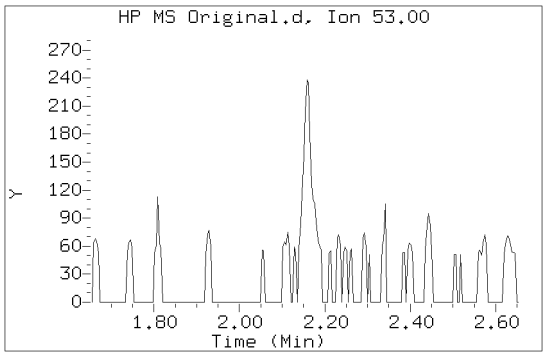
AFTER

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23-May-2024
09:51
firat
tastan



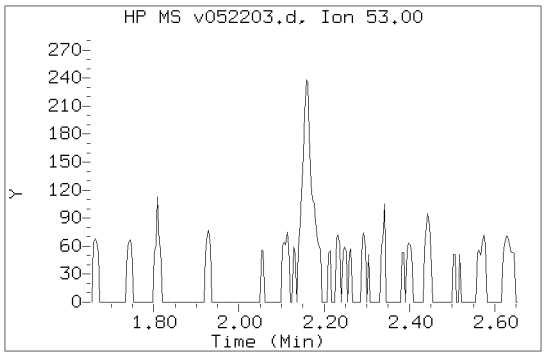
BEFORE

MASS
53
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HEIGHT
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23-May-2024
09:51
firat
tastan



AFTER

MASS
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AREA
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HEIGHT
0
23-May-2024
09:51
firat
tastan

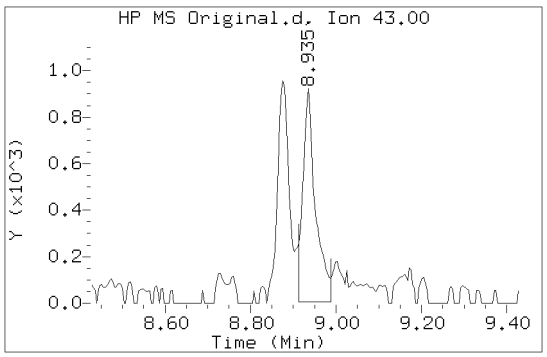


n-Amyl acetate (628-63-7)

Reason Code:

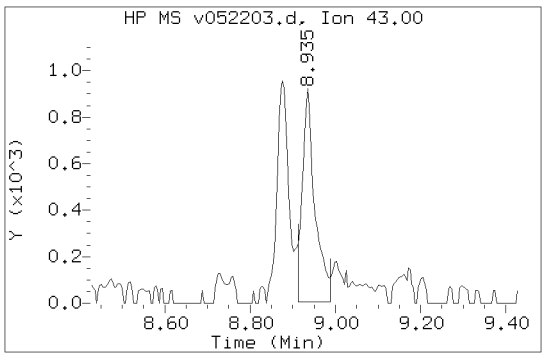
BEFORE

MASS
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AREA
1919
HEIGHT
917
23-May-2024
09:51
firat
tastan



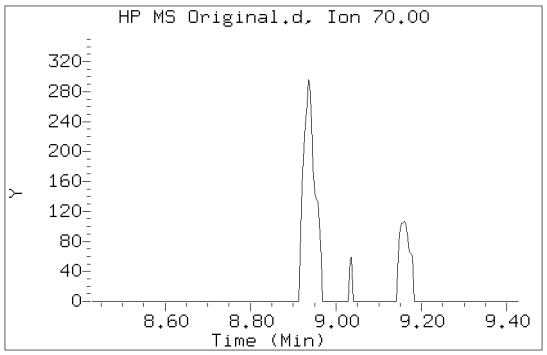
AFTER

MASS
43
AREA
1919
HEIGHT
917
23-May-2024
09:51
firat
tastan



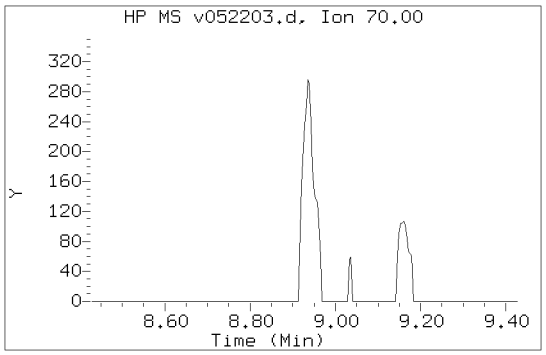
BEFORE

MASS
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AREA
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23-May-2024
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AFTER

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HEIGHT
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23-May-2024
09:51
firat
tastan



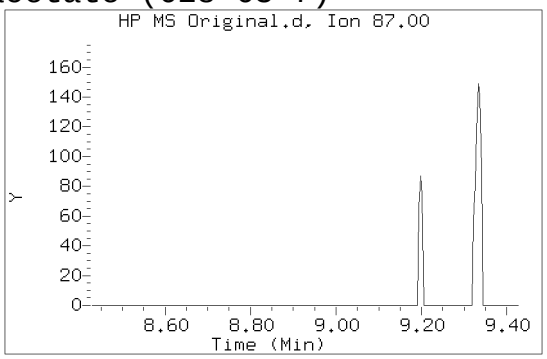
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Inj Date : 22-MAY-2024 20:44
InstruID : VOA9.i
LabSampID : VSTD00.5

n-Amyl acetate (628-63-7)

Reason Code:

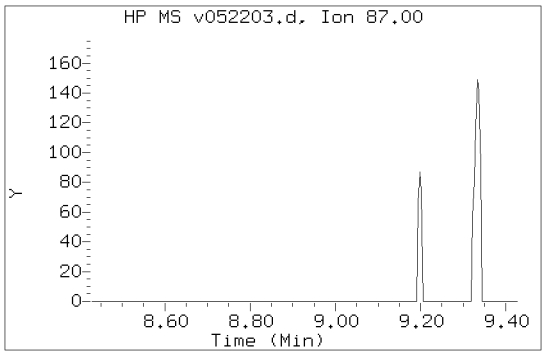
BEFORE

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AREA
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HEIGHT
0
23-May-2024
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AFTER

MASS
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HEIGHT
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23-May-2024
09:51
firat
tastan

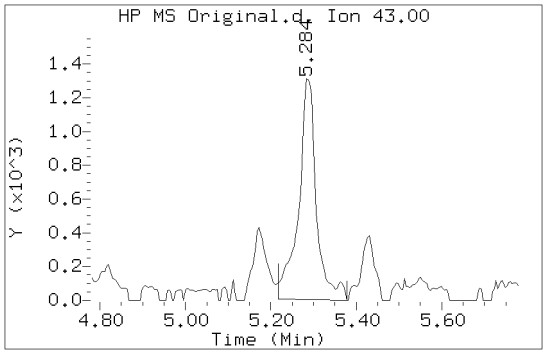


Isopropyl acetate (108-21-4)

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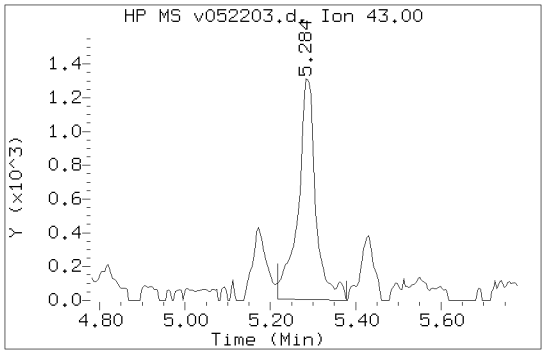
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23-May-2024
09:51
firat
tastan



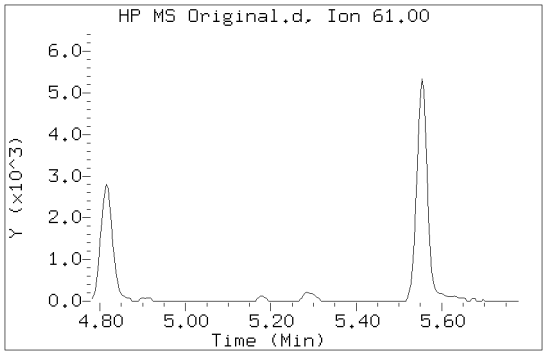
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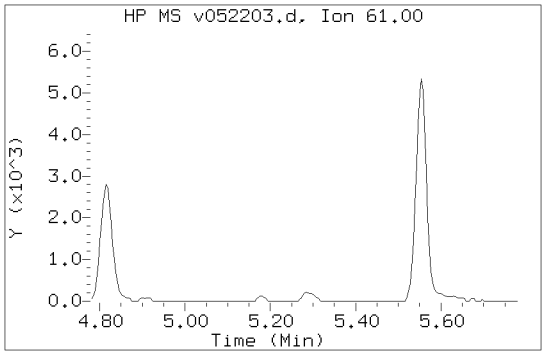
BEFORE

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AFTER

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09:51
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tastan

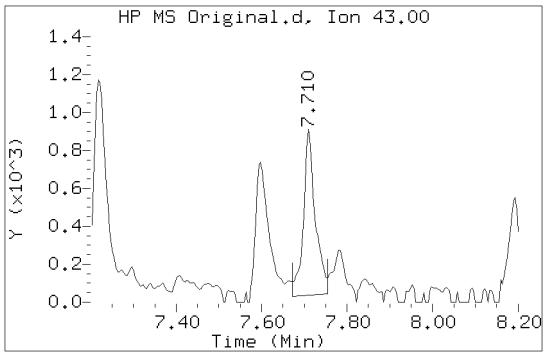


n-Butyl acetate (123-86-4)

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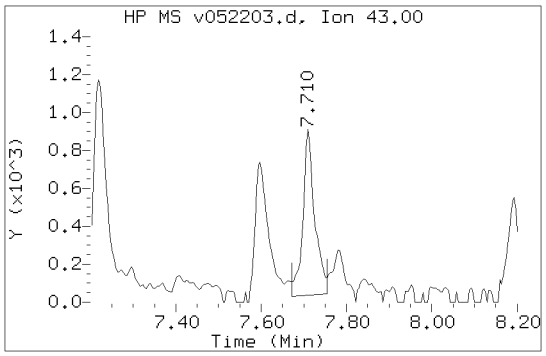
BEFORE

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AREA
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HEIGHT
872
23-May-2024
09:51
firat
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AFTER

MASS
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AREA
1715
HEIGHT
872
23-May-2024
09:51
firat
tastan

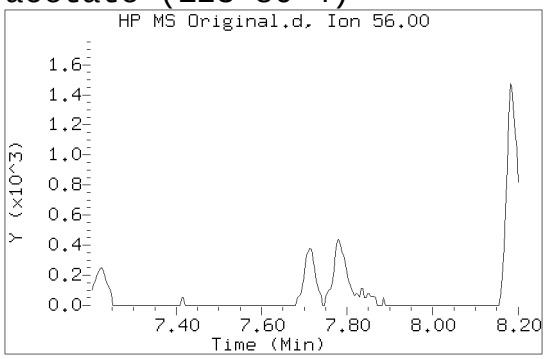


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Inj Date : 22-MAY-2024 20:44
InstruID : VOA9.i
LabSampID : VSTD00.5

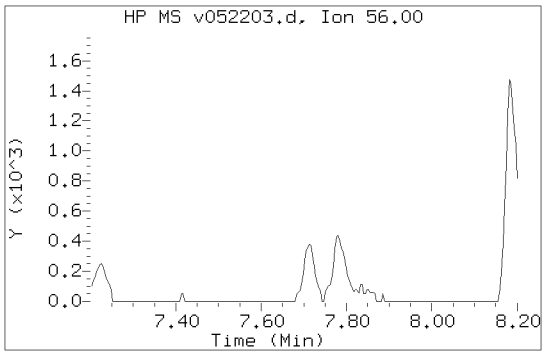
n-Butyl acetate (123-86-4)

Reason Code:

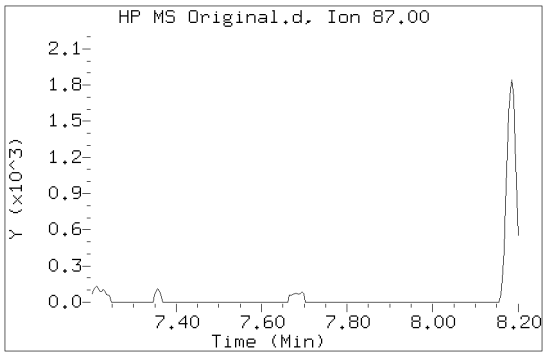
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09:51
firat
tastan



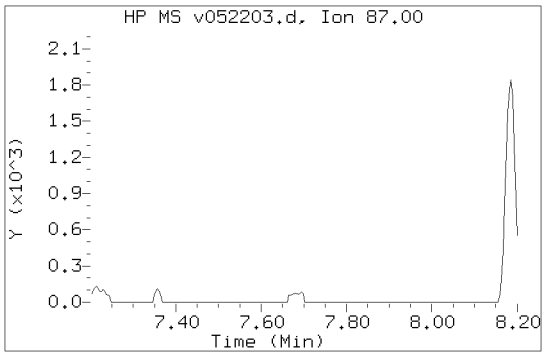
AFTER
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HEIGHT
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23-May-2024
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BEFORE
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HEIGHT
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23-May-2024
09:51
firat
tastan



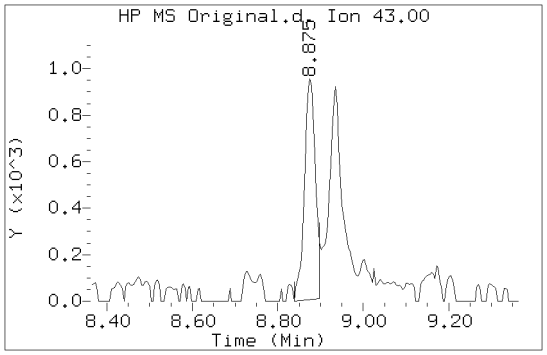
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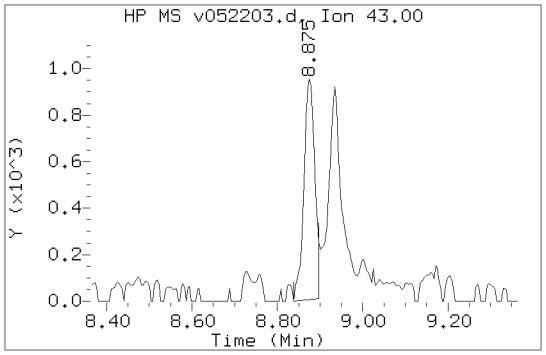
Methyl Amyl Ketone (110-43-0)

Reason Code:

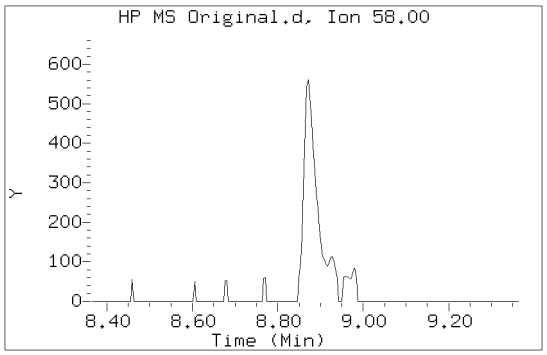
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HEIGHT
949
23-May-2024
09:51
firat
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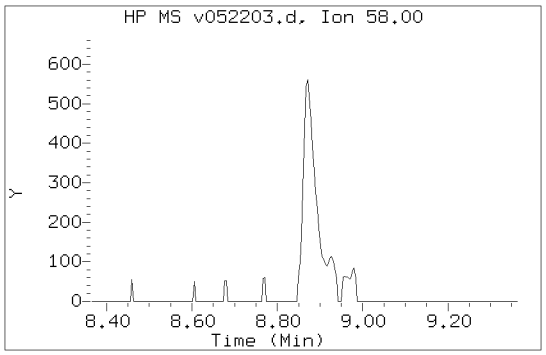
AFTER
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HEIGHT
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firat
tastan



BEFORE
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58
AREA
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HEIGHT
0
23-May-2024
09:51
firat
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AFTER
MASS
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AREA
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HEIGHT
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23-May-2024
09:51
firat
tastan



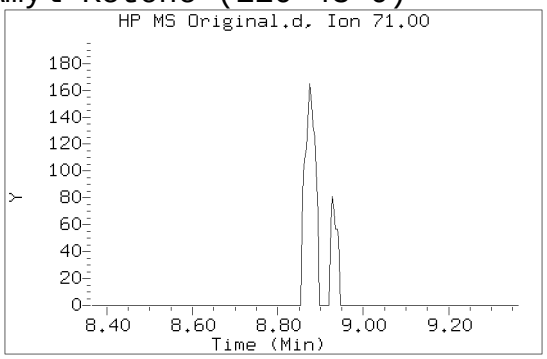
Data File : \\nahstws005\target\chem\voa9.i\u240523.b\v052203.d
Inj Date : 22-MAY-2024 20:44
InstruID : VOA9.i
LabSampID : VSTD00.5

Methyl Amyl Ketone (110-43-0)

Reason Code:

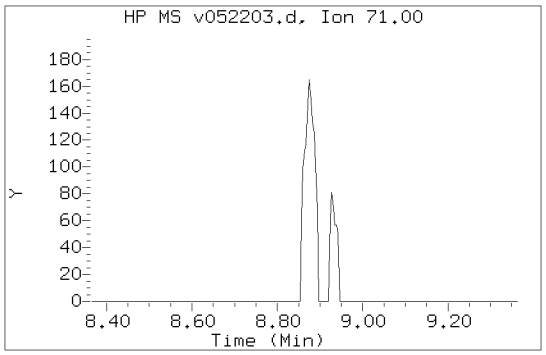
BEFORE

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HEIGHT
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23-May-2024
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AFTER

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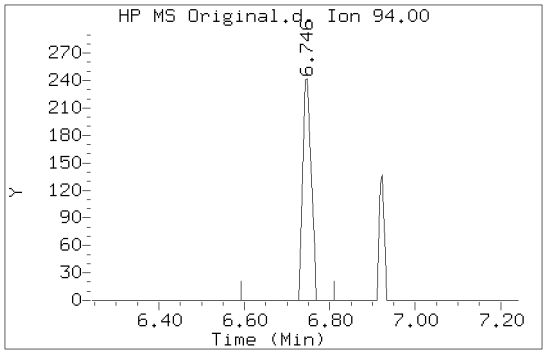


Dimethyl Disulfide (624-92-0)

Reason Code:

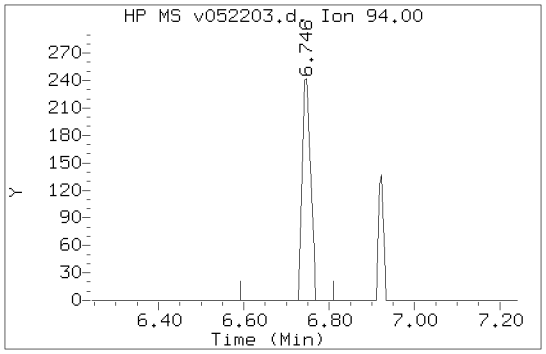
BEFORE

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HEIGHT
242
23-May-2024
09:51
firat
tastan



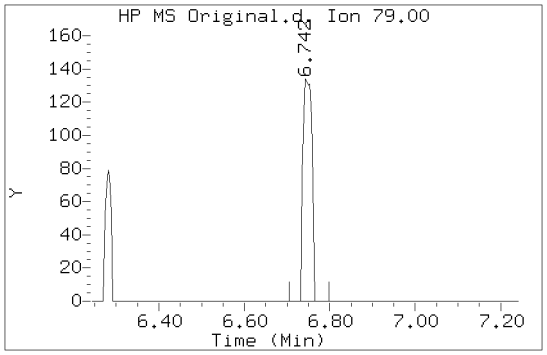
AFTER

MASS
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AREA
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HEIGHT
242
23-May-2024
09:51
firat
tastan



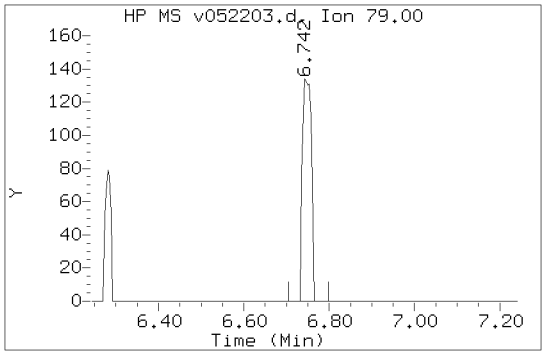
BEFORE

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134
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09:51
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tastan



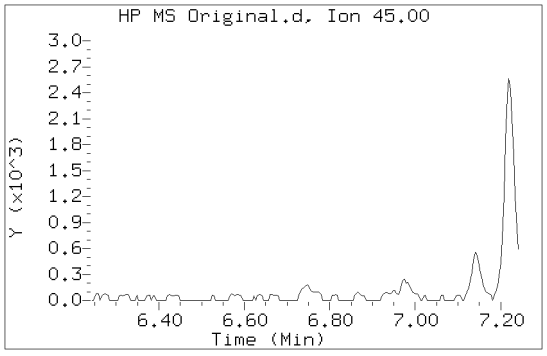
AFTER

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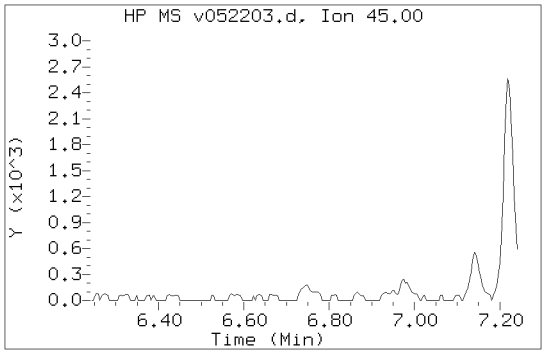
BEFORE

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AFTER

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23-May-2024
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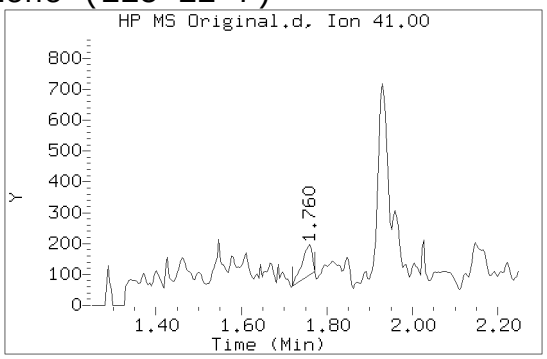


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Inj Date : 22-MAY-2024 20:44
InstruID : VOA9.i
LabSampID : VSTD00.5

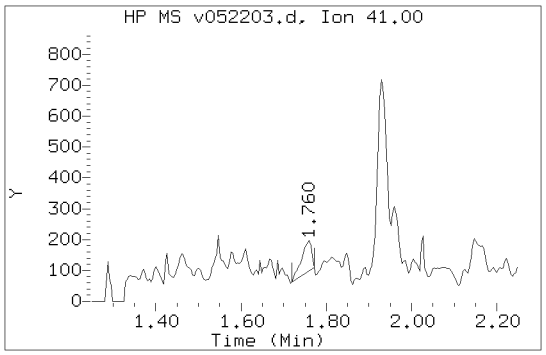
Isobutylene (115-11-7)

Reason Code:

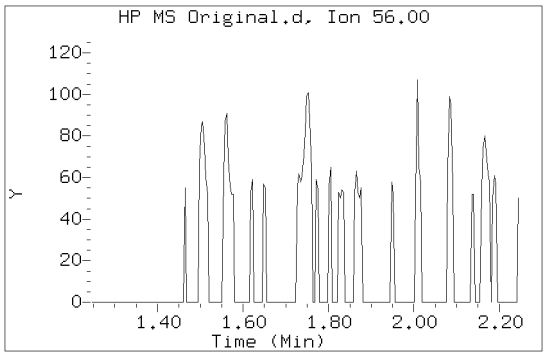
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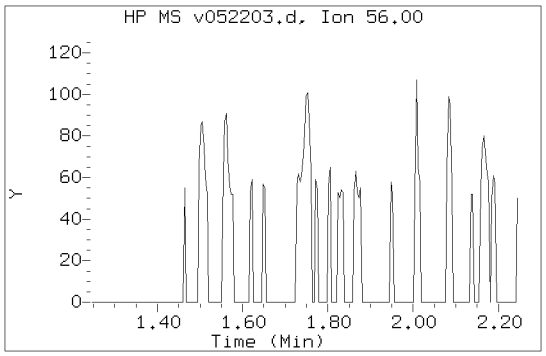
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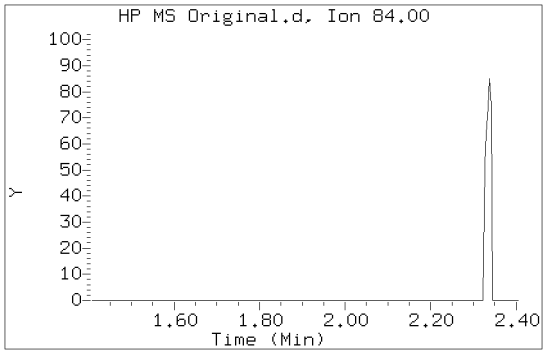
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23-May-2024
09:51
firat
tastan



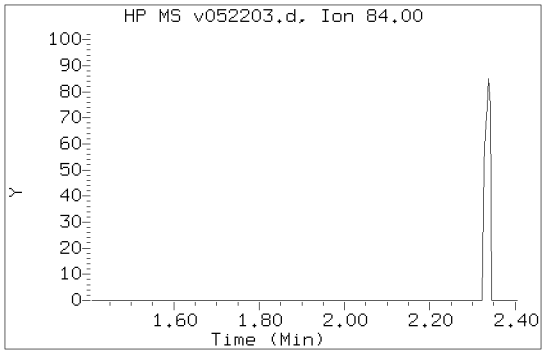
AFTER
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23-May-2024
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BEFORE
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23-May-2024
09:51
firat
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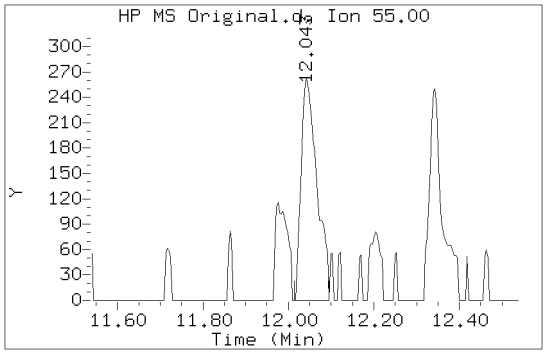
AFTER
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23-May-2024
09:51
firat
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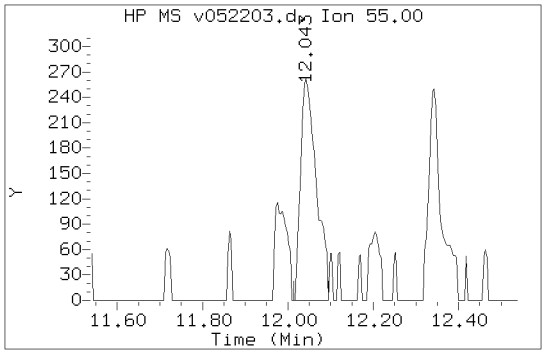
2-Ethylhexyl Acrylate (103-11-7)

Reason Code:

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AREA
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HEIGHT
262
23-May-2024
09:51
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tastan



AFTER
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HEIGHT
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23-May-2024
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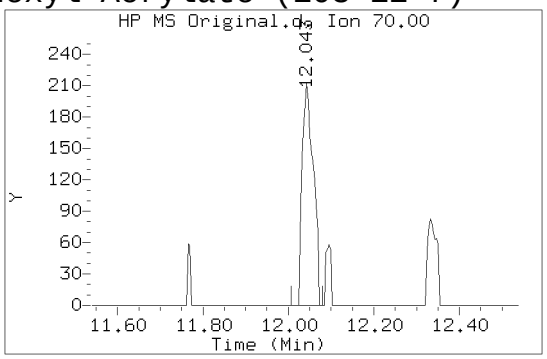
Data File : \\nahstws005\target\chem\voa9.i\u240523.b\v052203.d
Inj Date : 22-MAY-2024 20:44
InstruID : VOA9.i
LabSampID : VSTD00.5

2-Ethylhexyl Acrylate (103-11-7)

Reason Code:

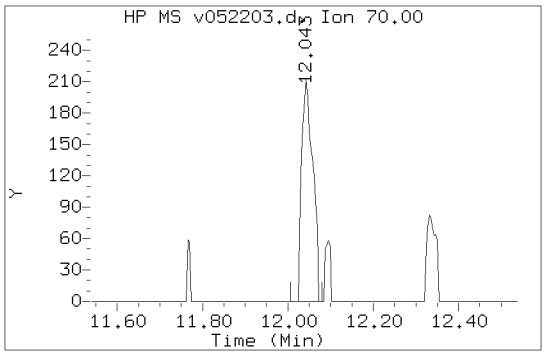
BEFORE

MASS
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AREA
389
HEIGHT
212
23-May-2024
09:51
firat
tastan



AFTER

MASS
70
AREA
389
HEIGHT
212
23-May-2024
09:51
firat
tastan



Data File: \\nahstws005\Target\chem\voa9.i\U240523.b\V052204.D Page 1
Report Date: 23-May-2024 09:51

ALS Laboratory Group

Data file : \\nahstws005\Target\chem\voa9.i\U240523.b\V052204.D
Lab Smp Id: VSTD001 Client Smp ID: VSTD001
Inj Date : 22-MAY-2024 21:05
Operator : FT Inst ID: VOA9.i
Smp Info : VSTD001;VSTD001;1;3
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240523.b\8260C.m
Meth Date : 23-May-2024 09:51 VOA9.i Quant Type: ISTD
Cal Date : 22-MAY-2024 20:44 Cal File: V052203.D
Als bottle: 31 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7066

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	4.815	4.815	(1.000)	229096	50.0000	
2	Dichlorodifluoromethane	85	1.164	1.164	(0.242)	999	1.00000	0.81(M)
3	Chloromethane	50	1.295	1.295	(0.269)	11392	1.00000	1.60
4	Propionitrile	54	4.343	4.343	(0.902)	3786	10.0000	13.07(aM)
5	Vinyl Chloride	62	1.378	1.378	(0.286)	2017	1.00000	0.97
6	Bromomethane	94	1.614	1.614	(0.335)	1774	1.00000	1.56
7	Chloroethane	64	1.700	1.700	(0.353)	1699	1.00000	1.18
8	Trichlorofluoromethane	101	1.891	1.891	(0.393)	2065	1.00000	0.87
9	Acrolein	56	2.266	2.266	(0.471)	475	2.00000	3.98(aM)
10	Acetone	43	2.409	2.409	(0.500)	2810	2.00000	3.39
11	1,1-Dichloroethene	96	2.326	2.326	(0.483)	1551	1.00000	1.07
12	Isobutyl Alcohol	43	5.284	5.284	(1.097)	5996	20.0000	21.68(a)
13	Acetonitrile	39	2.671	2.671	(0.555)	2354	10.0000	12.44(a)
14	Allyl Chloride	41	2.671	2.671	(0.555)	5992	1.00000	1.23(a)
15	Iodomethane	142	2.465	2.465	(0.512)	1167	2.00000	2.71(T)
16	Acrylonitrile	53	3.068	3.068	(0.637)	2044	2.00000	2.81
17	Methylene Chloride	84	2.795	2.795	(0.580)	4514	1.00000	1.59
18	Methyl tert-butyl ether	73	3.080	3.080	(0.640)	5966	1.00000	1.29
19	Carbon Disulfide	76	2.517	2.517	(0.523)	8490	2.00000	1.94
20	trans-1,2-Dichloroethene	96	3.053	3.053	(0.634)	1839	1.00000	1.11

21 Vinyl Acetate	43	4.347	4.347 (0.903)	2690	2.00000	2.37(M)
22 1,1-Dichloroethane	63	3.511	3.511 (0.729)	3832	1.00000	1.16(T)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	23 Chloroprene	53	3.608	3.608	(0.749)	2599	1.00000	1.02(aM)
	24 2-Butanone	43	4.272	4.272	(0.887)	2158	2.00000	2.02
	25 Methacrylonitrile	41	4.500	4.500	(0.935)	1456	1.00000	1.20(a)
	26 2,2-Dichloropropane	77	4.178	4.178	(0.868)	1844	1.00000	0.91(M)
	27 cis-1,2-Dichloroethene	96	4.197	4.197	(0.872)	2353	1.00000	1.18
	28 Chloroform	83	4.571	4.571	(0.949)	3810	1.00000	1.15
	29 Bromochloromethane	128	4.470	4.470	(0.928)	1171	1.00000	1.19
$	30 Dibromofluoromethane	113	4.748	4.748	(0.986)	2174	1.00000	1.30
	31 1,1,1-Trichloroethane	97	4.736	4.736	(0.984)	2100	1.00000	0.90
	32 1,1-Dichloropropene	75	4.920	4.920	(0.887)	2084	1.00000	0.86
	33 1,2-Dichloroethane	62	5.179	5.179	(0.933)	3006	1.00000	1.12
	34 Carbon Tetrachloride	117	4.909	4.909	(0.885)	1905	1.00000	0.97
$	35 1,2-Dichloroethane-d4	65	5.096	5.096	(1.058)	3401	1.00000	1.62
*	36 1,4-Difluorobenzene	114	5.550	5.550	(1.000)	339617	50.0000	
	37 Benzene	78	5.138	5.138	(0.926)	8834	1.00000	1.13
	38 Trichloroethene	130	5.786	5.786	(1.043)	1941	1.00000	1.03(a)
	39 Bromodichloromethane	83	6.277	6.277	(1.131)	2013	1.00000	0.97(aM)
	40 Methyl Methacrylate	41	5.846	5.846	(1.214)	1155	1.00000	1.61(aM)
	41 2-Chloroethylvinyl ether	63	6.581	6.581	(1.186)	1242	2.00000	1.88(aM)
	42 1,2-Dichloropropane	63	6.007	6.007	(1.082)	2470	1.00000	1.14(a)
	43 2-Nitropropane	43	6.506	6.506	(1.351)	621	1.00000	1.57(aM)
	44 Dibromomethane	93	6.120	6.120	(1.103)	1339	1.00000	1.14(a)
	45 4-Methyl-2-Pentanone	43	6.854	6.854	(0.838)	4527	2.00000	2.12(a)
	46 cis-1,3-Dichloropropene	75	6.690	6.690	(1.205)	1996	1.00000	0.83(aM)
*	47 Chlorobenzene-d5	117	8.181	8.181	(1.000)	308399	50.0000	
$	48 Toluene-d8	98	6.922	6.922	(0.846)	8273	1.00000	1.32(a)
	49 Ethyl Methacrylate	69	7.293	7.293	(1.314)	2724	1.00000	1.08(aM)
	50 Toluene	91	6.982	6.982	(0.853)	7775	1.00000	0.99(a)
	51 trans-1,3-Dichloropropene	75	7.196	7.196	(1.296)	1359	1.00000	0.73(aM)
	52 2-Hexanone	43	7.597	7.597	(0.929)	2923	2.00000	2.05(a)
	53 1,1,2-Trichloroethane	83	7.353	7.353	(0.899)	1635	1.00000	1.06(a)
	54 1,3-Dichloropropane	76	7.499	7.499	(0.917)	3587	1.00000	1.10(a)
	55 Dibromochloromethane	129	7.690	7.690	(0.940)	1373	1.00000	0.90(a)
	56 Tetrachloroethene	164	7.454	7.454	(0.911)	1349	1.00000	0.91(a)
	57 1,2-Dibromoethane	107	7.784	7.784	(0.951)	1655	1.00000	1.00(a)
	58 1-Chlorohexane	55	8.185	8.185	(1.475)	4226	1.00000	1.55(a)
	59 Chlorobenzene	112	8.208	8.208	(1.003)	6324	1.00000	1.19(a)
	60 1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	1541	1.00000	0.95(a)
	61 Ethylbenzene	106	8.305	8.305	(1.015)	2548	1.00000	1.01(a)
	62 m,p-Xylenes	106	8.410	8.410	(1.028)	5807	2.00000	1.89(a)
	63 o-Xylene	106	8.744	8.744	(1.069)	3078	1.00000	1.02(a)
	64 Styrene	104	8.763	8.763	(1.071)	5013	1.00000	0.98(a)
	66 Bromoform	173	8.920	8.920	(1.090)	721	1.00000	0.76(aM)
	67 Isopropylbenzene	105	9.062	9.062	(1.108)	6959	1.00000	0.93(a)
	68 1,1,2,2-Tetrachloroethane	83	9.325	9.325	(0.917)	3041	1.00000	1.24(aM)
$	69 4-Bromofluorobenzene	95	9.194	9.194	(1.124)	3587	1.00000	1.50(a)
*	70 1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	159294	50.0000	
	71 1,2,3-Trichloropropane	75	9.362	9.362	(0.921)	2895	1.00000	1.18(a)
	72 trans-1,4-Dichloro-2-butene	53	9.377	9.377	(1.146)	701	1.00000	1.27(a)
	73 n-Propylbenzene	91	9.411	9.411	(0.926)	7637	1.00000	0.92(a)
	74 Bromobenzene	156	9.317	9.317	(0.916)	2406	1.00000	1.14(a)
	75 1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	5105	1.00000	0.89(a)

76	2-Chlorotoluene	91	9.482	9.482 (0.933)	5690	1.00000	1.06(a)
77	4-Chlorotoluene	91	9.576	9.576 (0.942)	6353	1.00000	1.04(a)

Data File: \\nahstws005\Target\chem\voa9.i\U240523.b\V052204.D Page 3
Report Date: 23-May-2024 09:51

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
78	tert-Butylbenzene	119	9.835	9.835	(0.967)	4730	1.00000	0.94(a)
79	1,2,4-Trimethylbenzene	105	9.876	9.876	(0.971)	5606	1.00000	0.96(a)
81	sec-Butylbenzene	105	10.018	10.018	(0.985)	5647	1.00000	0.85(a)
82	p-Isopropyltoluene	119	10.142	10.142	(0.997)	4967	1.00000	0.86(a)
83	1,3-Dichlorobenzene	146	10.116	10.116	(0.995)	4451	1.00000	1.18(aM)
84	1,4-Dichlorobenzene	146	10.191	10.191	(1.002)	4916	1.00000	1.16(a)
86	Benzyl Chloride	91	10.311	10.311	(1.260)	5397	1.00000	1.60(a)
87	n-Butylbenzene	91	10.491	10.491	(1.032)	5689	1.00000	1.01(a)
88	1,2-Dichlorobenzene	146	10.506	10.506	(1.033)	4478	1.00000	1.17(a)
89	1,2-Dibromo-3-Chloropropane	155	11.162	11.162	(1.098)	232	1.00000	0.85(aM)
90	1,2,4-Trichlorobenzene	180	11.859	11.859	(1.166)	2608	1.00000	1.09(a)
91	Hexachlorobutadiene	225	11.998	11.998	(1.180)	961	1.00000	0.91(a)
92	Naphthalene	128	12.069	12.069	(1.187)	4637	1.00000	0.91(a)
93	1,2,3-Trichlorobenzene	180	12.271	12.271	(1.207)	2359	1.00000	1.05(a)
146	Methyl acetate	43	2.716	2.716	(0.564)	3162	1.00000	1.38(a)
138	Freon TF	101	2.330	2.330	(0.484)	2031	1.00000	0.82(a)
141	Cyclohexane	56	4.815	4.815	(1.000)	6419	1.00000	1.54(aM)
142	Tetrahydrofuran	42	4.549	4.549	(0.945)	1504	2.00000	3.46(aM)
147	Methylcyclohexane	55	5.951	5.951	(1.072)	4243	1.00000	1.04(a)
135	1,4-Dioxane	88	6.168	6.168	(1.281)	700	20.0000	26.98(M)
132	n-Butanol	56	5.831	5.831	(1.211)	1043	20.0000	24.17(a)
136	n-Hexane	57	3.342	3.342	(0.694)	1628	1.00000	0.90(Ta)
139	Diethyl ether	59	2.146	2.146	(0.446)	1531	1.00000	1.20(a)
148	Tert-butyl alcohol	59	2.967	2.967	(0.616)	3418	20.0000	25.08
149	Isopropyl alcohol	45	2.566	2.566	(0.533)	2808	20.0000	25.56(T)
152	Amyl alcohol	42	7.413	7.413	(0.906)	1088	20.0000	20.11
156	Diisopropyl ether	45	3.619	3.619	(0.752)	7158	1.00000	1.19(Ta)
162	Butyl acrylate	55	8.736	8.736	(1.068)	3200	1.00000	0.98(a)
187	n-Amyl acetate	43	8.931	8.931	(1.092)	3766	1.00000	1.07(aM)
164	Dicyclopentadiene	66	10.198	10.198	(1.003)	10054	1.00000	1.21(aM)
166	1,2,3-Trimethylbenzene	105	10.232	10.232	(1.006)	5825	1.00000	1.07(a)
167	Ethanol	45	2.082	2.082	(0.433)	619	20.0000	27.61(M)
172	tert-Butyl formate	59	5.243	5.243	(1.089)	3423	2.00000	2.59(aM)
173	3,3-Dimethyl-1-butanol	57	7.780	7.780	(0.951)	5298	20.0000	25.99(M)
174	tert-Amyl methyl ether	73	5.284	5.284	(1.097)	5854	1.00000	1.15(a)
175	tert-Butyl ethyl ether	59	4.054	4.054	(0.842)	5932	1.00000	1.16(a)
176	tert-Amyl alcohol	59	5.243	5.243	(1.089)	3423	20.0000	26.07
151	4-Methyl-2-pentanol	45	7.218	7.218	(1.301)	9894	20.0000	19.48
140	1,3-Butadiene	54	1.400	1.400	(0.291)	725	1.00000	0.80(a)
182	Epichlorohydrin	57	6.633	6.633	(1.195)	539	4.00000	4.36(aM)
M 94	1,2-Dichloroethylene (total)	96				4192	2.00000	(a)
130	Ethyl Acetate	43	4.272	4.272	(0.887)	2292	1.00000	1.02(aM)
131	Methyl Acrylate	55	4.373	4.373	(0.908)	2622	1.00000	1.19(aM)
189	n-Butyl acetate	43	7.705	7.705	(0.942)	3308	1.00000	1.04(aM)
134	Cyclohexanone	55	9.152	9.152	(0.900)	2342	20.0000	25.43(a)
185	Isoprene	39	2.154	2.154	(0.447)	277	1.00000	0.71(aM)
188	Isopropyl acetate	43	5.284	5.284	(0.952)	6126	1.00000	1.07(a)
150	Allyl alcohol	57	3.342	3.342	(0.694)	1628	20.0000	18.17
194	Acetaldehyde	44	1.460	1.460	(0.303)	1439	4.00000	4.65(aM)
195	Methyl Amyl Ketone	43	8.871	8.871	(1.084)	4122	1.00000	1.06(a)
200	Dimethyl Disulfide	94	6.742	6.742	(0.824)	751	1.00000	0.77(aM)
133	Ethyl Acrylate	55	5.951	5.951	(1.236)	4243	1.00000	1.05(aM)

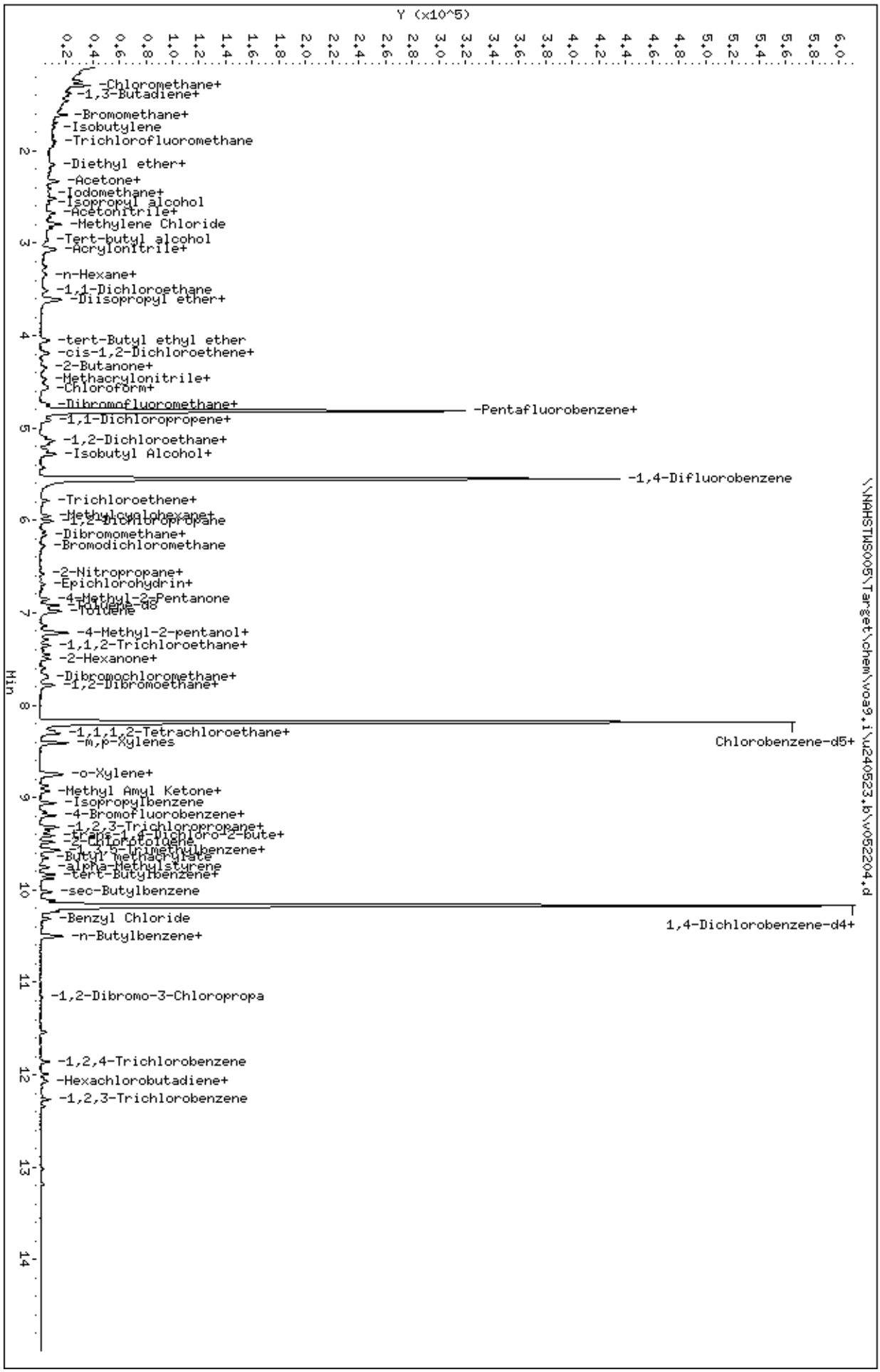
163 Butyl methacrylate	41	9.651	9.651 (0.949)	2905	1.00000	1.34(a)
159 Propylene oxide	43	2.199	2.199 (0.457)	941	2.00000	5.43

Data File: \\nahstws005\Target\chem\voa9.i\U240523.b\V052204.D Page 4
Report Date: 23-May-2024 09:51

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
203 2-Ethylhexyl Acrylate	55	12.043	12.043	(1.184)	1428	1.00000	0.92(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;VSTD0011;3
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Column phase: DB624

Instrument: VOA9.i
Operator: FT
Column diameter: 0.18

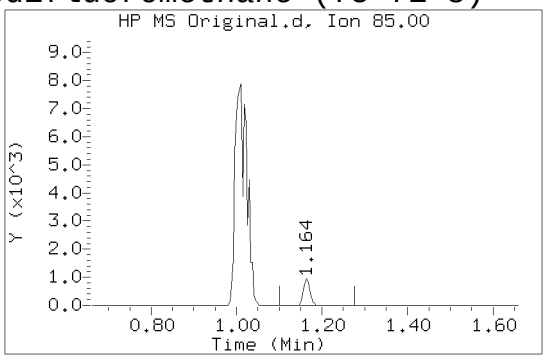
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LabSampID : VSTD001

Dichlorodifluoromethane (75-71-8)

Reason Code:

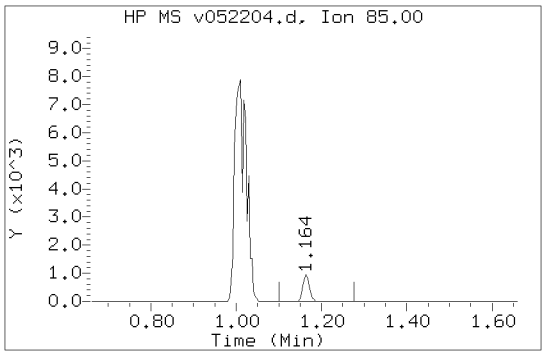
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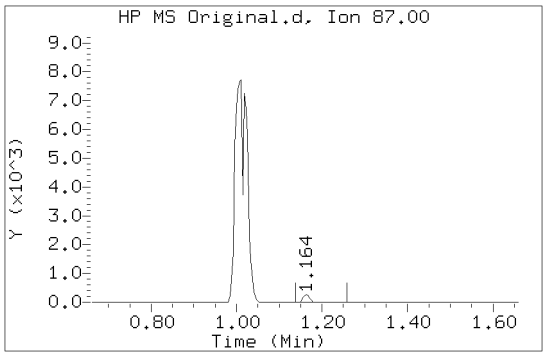
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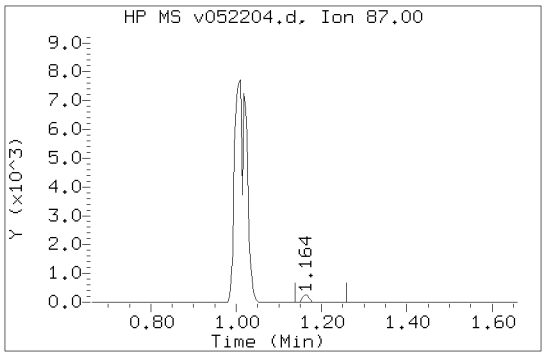
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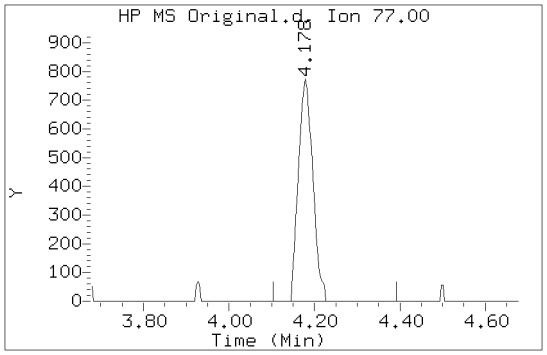


2,2-Dichloropropane (594-20-7)

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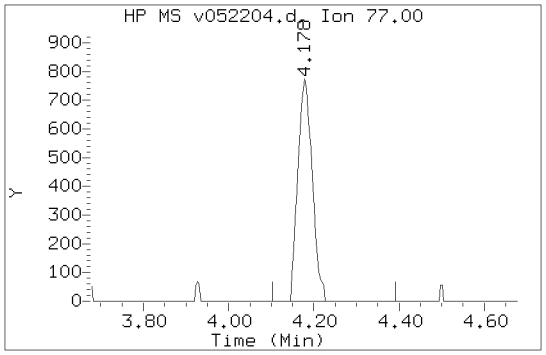
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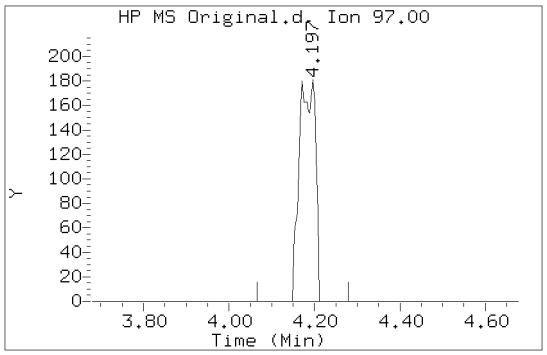
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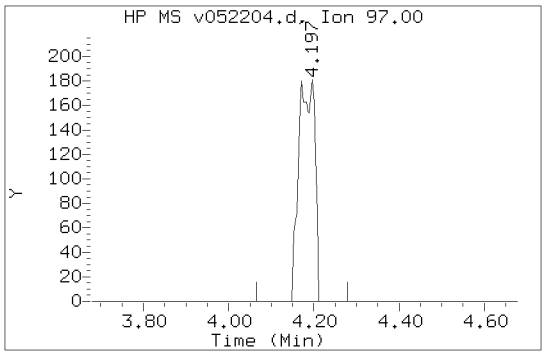
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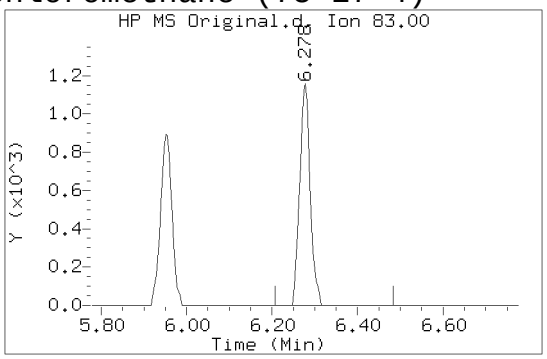


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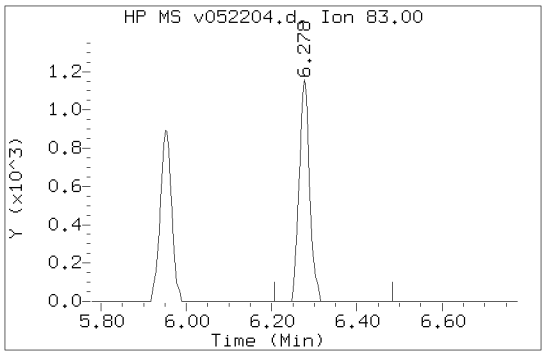
Bromodichloromethane (75-27-4)

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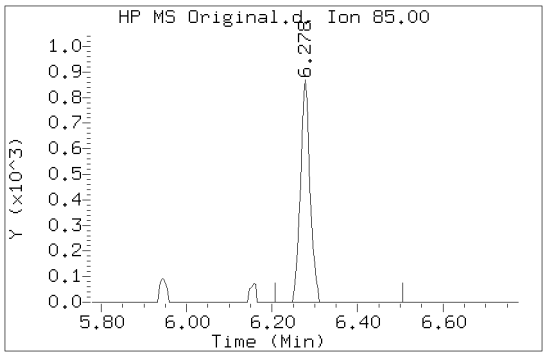
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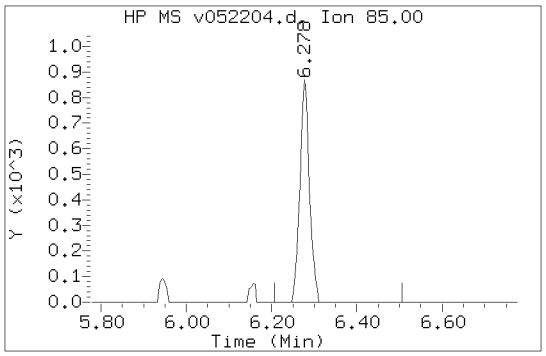
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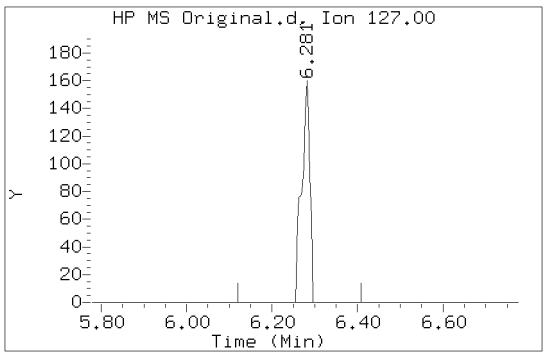
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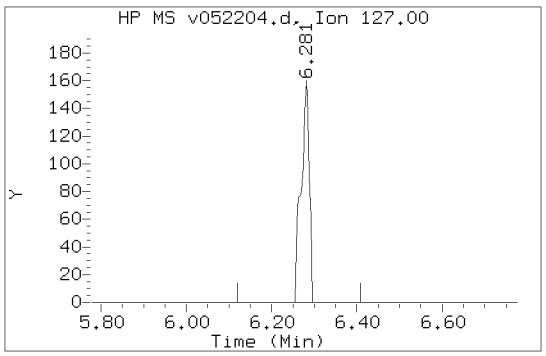
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BEFORE
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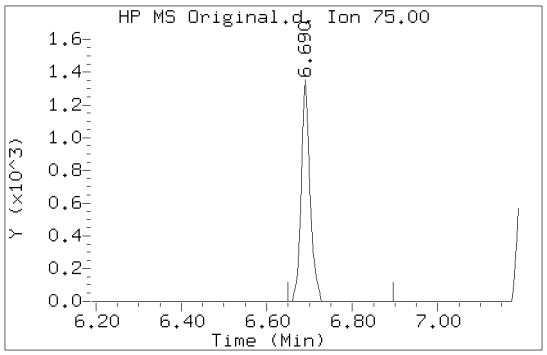
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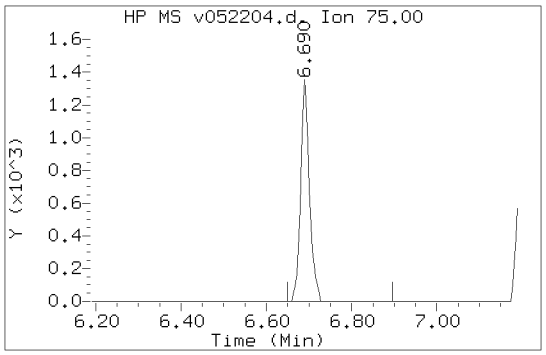
cis-1,3-Dichloropropene (10061-01-5)

Reason Code:

BEFORE
MASS
75
AREA
1996
HEIGHT
1354
23-May-2024
09:51
firat
tastan



AFTER
MASS
75
AREA
1996
HEIGHT
1354
23-May-2024
09:51
firat
tastan



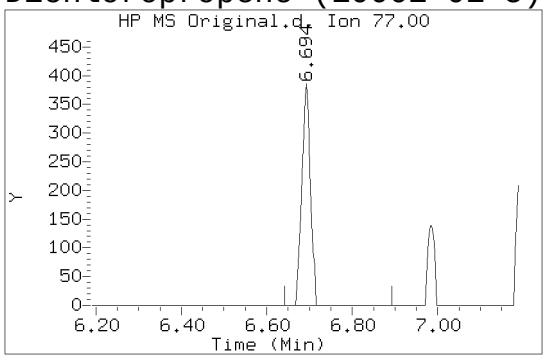
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Inj Date : 22-MAY-2024 21:05
InstruID : VOA9.i
LabSampID : VSTD001

cis-1,3-Dichloropropene (10061-01-5)

Reason Code:

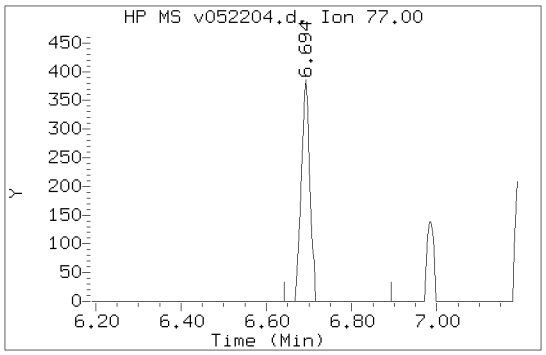
BEFORE

MASS
77
AREA
552
HEIGHT
386
23-May-2024
09:51
firat
tastan



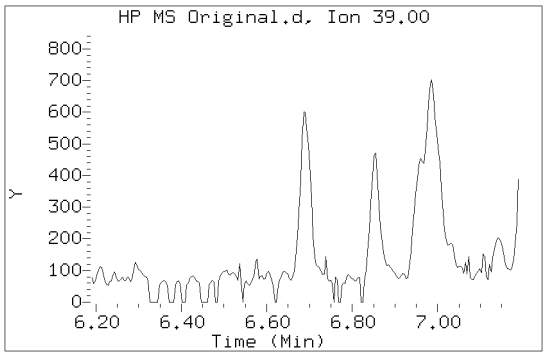
AFTER

MASS
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AREA
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HEIGHT
386
23-May-2024
09:51
firat
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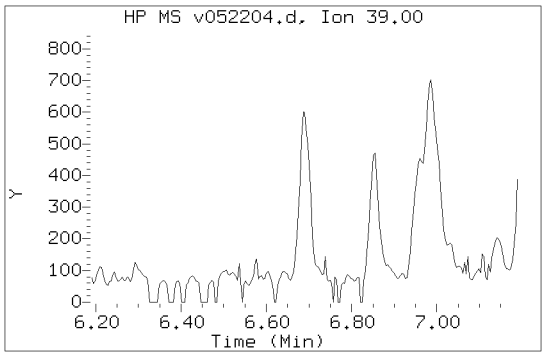
BEFORE

MASS
39
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



AFTER

MASS
39
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan

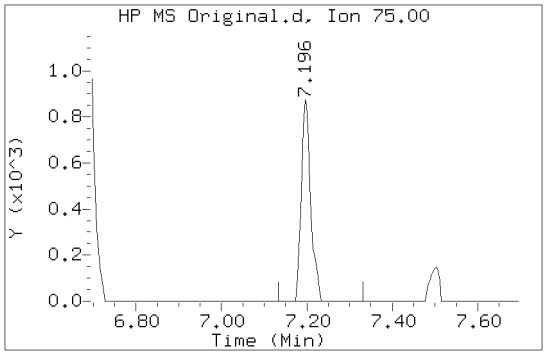


trans-1,3-Dichloropropene (10061-02-6)

Reason Code:

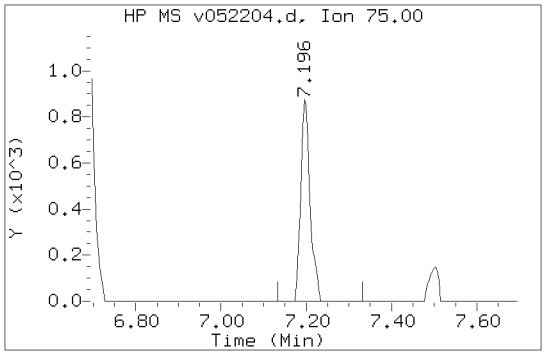
BEFORE

MASS
75
AREA
1359
HEIGHT
876
23-May-2024
09:51
firat
tastan



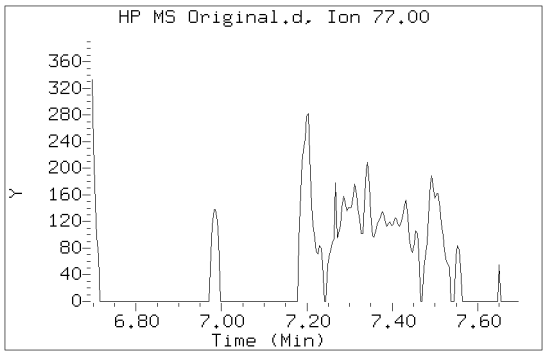
AFTER

MASS
75
AREA
1359
HEIGHT
876
23-May-2024
09:51
firat
tastan



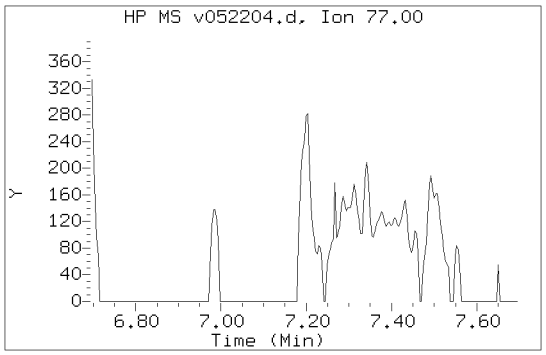
BEFORE

MASS
77
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



AFTER

MASS
77
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



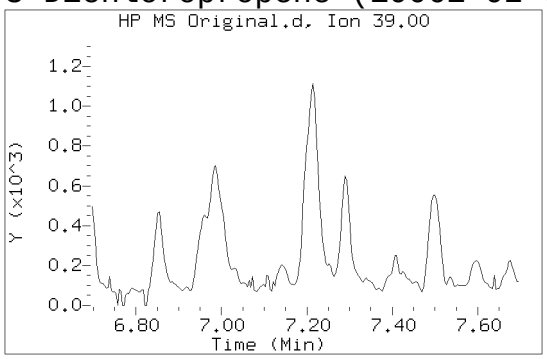
Data File : \\nahstws005\target\chem\voa9.i\u240523.b\v052204.d
Inj Date : 22-MAY-2024 21:05
InstruID : VOA9.i
LabSampID : VSTD001

trans-1,3-Dichloropropene (10061-02-6)

Reason Code:

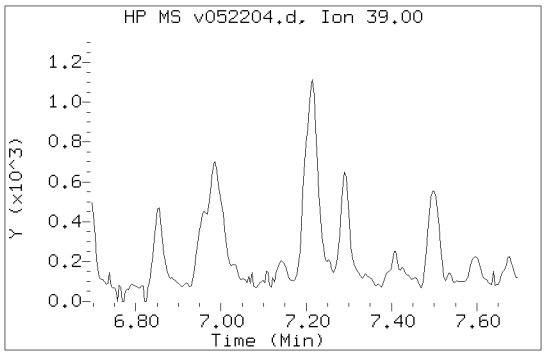
BEFORE

MASS
39
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



AFTER

MASS
39
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan

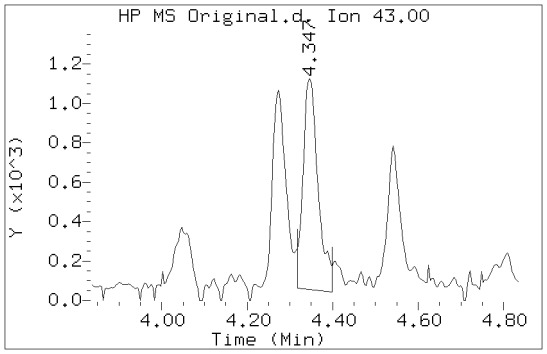


Vinyl Acetate (108-05-4)

Reason Code:

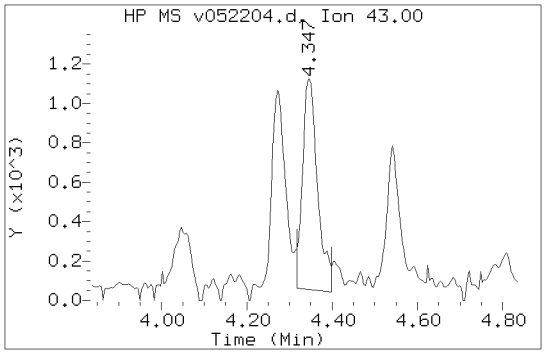
BEFORE

MASS
43
AREA
2690
HEIGHT
1070
23-May-2024
09:51
firat
tastan



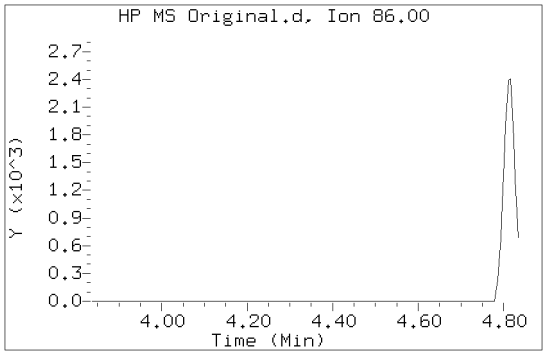
AFTER

MASS
43
AREA
2690
HEIGHT
1070
23-May-2024
09:51
firat
tastan



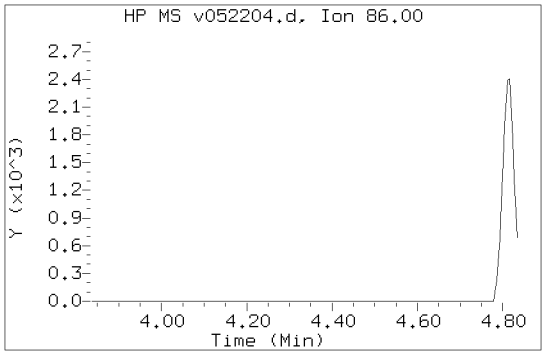
BEFORE

MASS
86
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



AFTER

MASS
86
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan

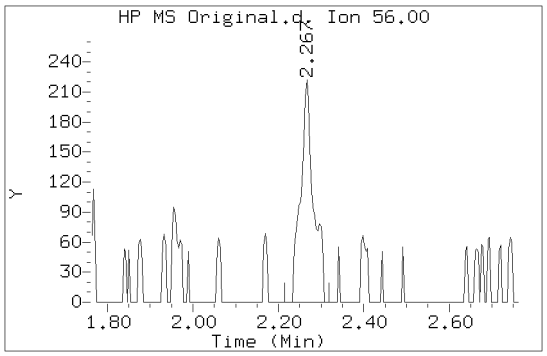


Acrolein (107-02-8)

Reason Code:

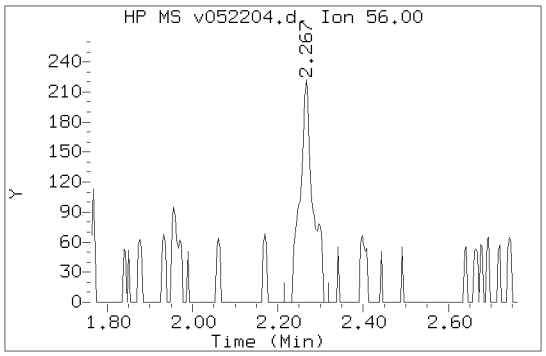
BEFORE

MASS
56
AREA
475
HEIGHT
222
23-May-2024
09:51
firat
tastan



AFTER

MASS
56
AREA
475
HEIGHT
222
23-May-2024
09:51
firat
tastan



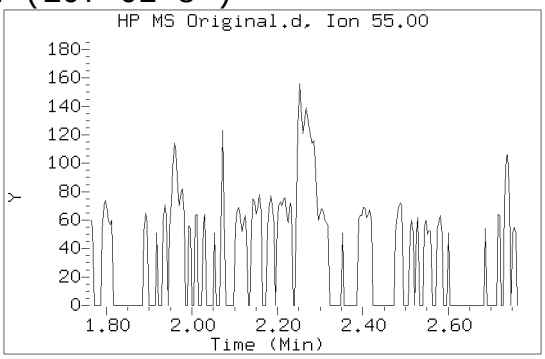
Data File : \\nahstws005\target\chem\voa9.i\u240523.b\v052204.d
Inj Date : 22-MAY-2024 21:05
InstruID : VOA9.i
LabSampID : VSTD001

Acrolein (107-02-8)

Reason Code:

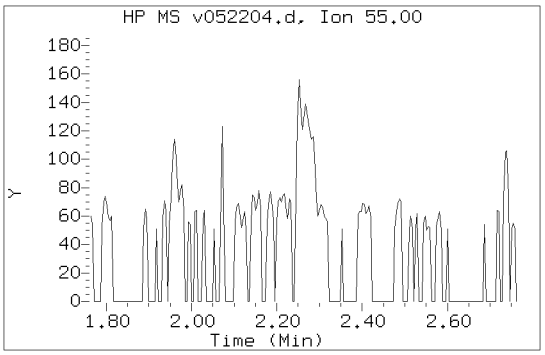
BEFORE

MASS
55
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



AFTER

MASS
55
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan

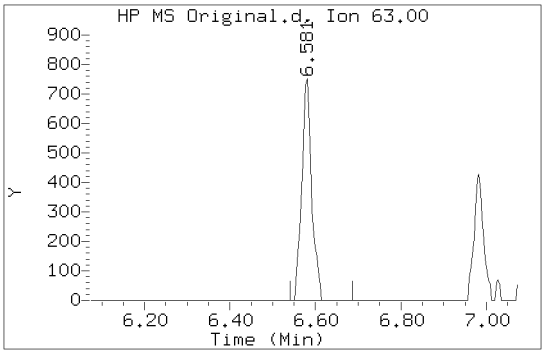


2-Chloroethylvinyl ether (110-75-8)

Reason Code:

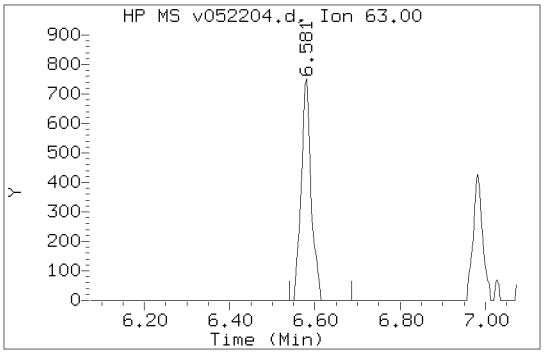
BEFORE

MASS
63
AREA
1242
HEIGHT
752
23-May-2024
09:51
firat
tastan



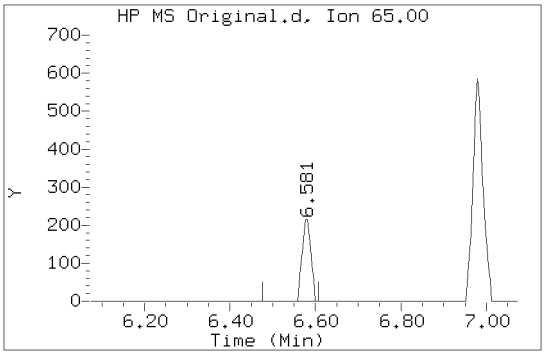
AFTER

MASS
63
AREA
1242
HEIGHT
752
23-May-2024
09:51
firat
tastan



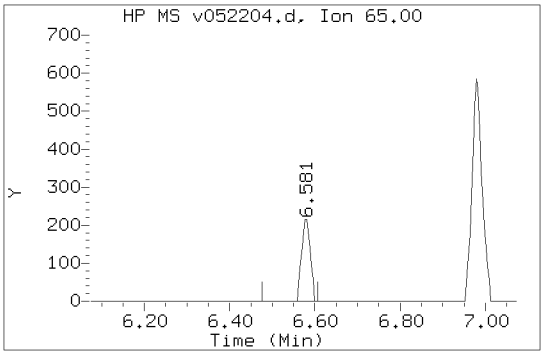
BEFORE

MASS
65
AREA
314
HEIGHT
215
23-May-2024
09:51
firat
tastan



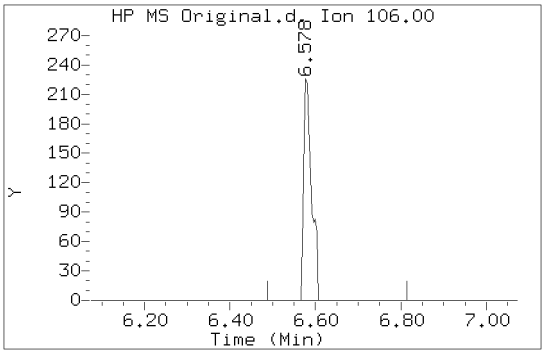
AFTER

MASS
65
AREA
314
HEIGHT
215
23-May-2024
09:51
firat
tastan



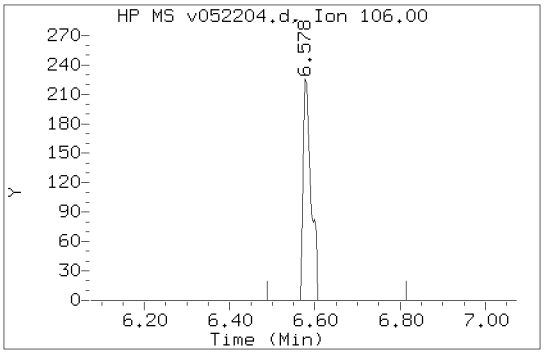
BEFORE

MASS
106
AREA
299
HEIGHT
226
23-May-2024
09:51
firat
tastan



AFTER

MASS
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AREA
299
HEIGHT
226
23-May-2024
09:51
firat
tastan



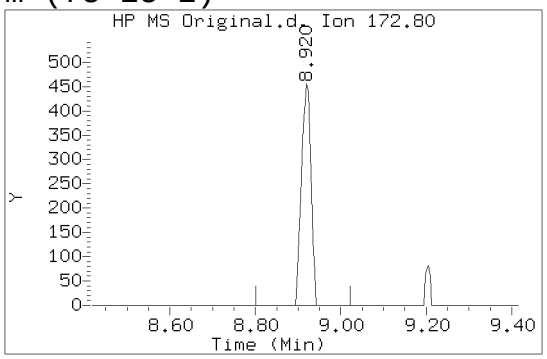
Data File : \\nahstws005\target\chem\voa9.i\u240523.b\v052204.d
Inj Date : 22-MAY-2024 21:05
InstruID : VOA9.i
LabSampID : VSTD001

Bromoform (75-25-2)

Reason Code:

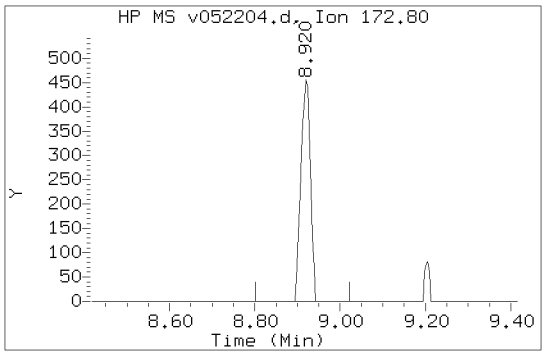
BEFORE

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AREA
721
HEIGHT
456
23-May-2024
09:51
firat
tastan



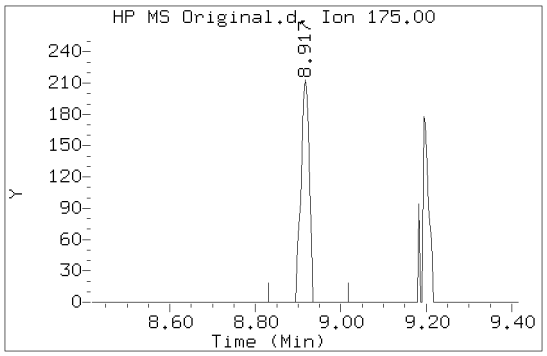
AFTER

MASS
172.8
AREA
721
HEIGHT
456
23-May-2024
09:51
firat
tastan



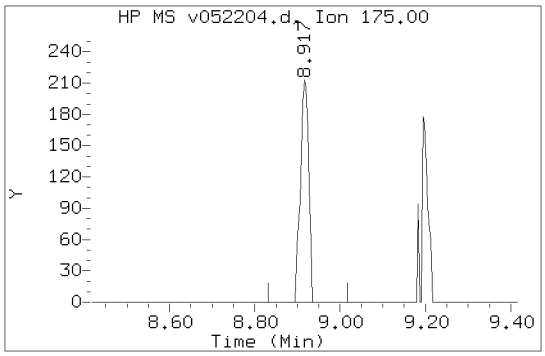
BEFORE

MASS
175
AREA
295
HEIGHT
213
23-May-2024
09:51
firat
tastan



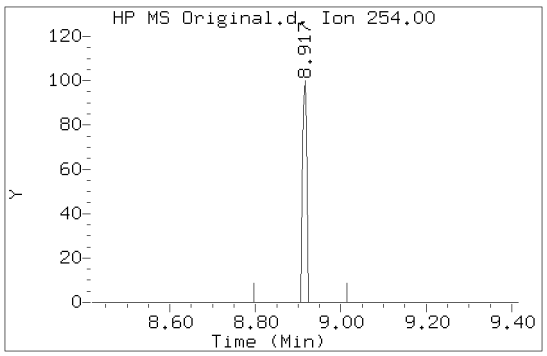
AFTER

MASS
175
AREA
295
HEIGHT
213
23-May-2024
09:51
firat
tastan



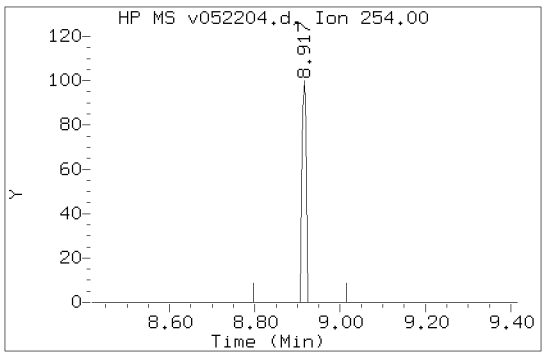
BEFORE

MASS
254
AREA
71
HEIGHT
100
23-May-2024
09:51
firat
tastan



AFTER

MASS
254
AREA
71
HEIGHT
100
23-May-2024
09:51
firat
tastan

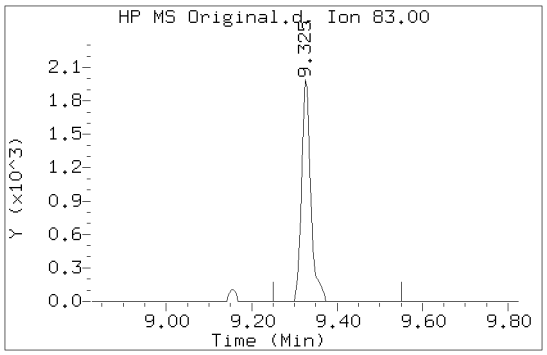


1,1,2,2-Tetrachloroethane (79-34-5)

Reason Code:

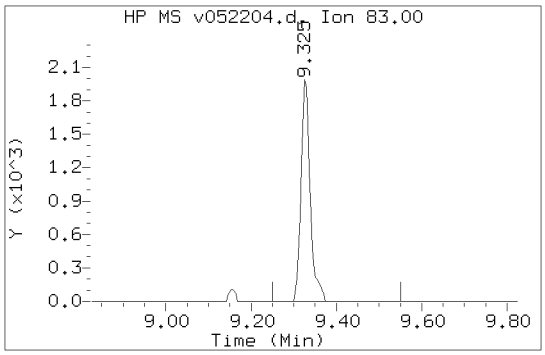
BEFORE

MASS
83
AREA
3041
HEIGHT
1990
23-May-2024
09:51
firat
tastan



AFTER

MASS
83
AREA
3041
HEIGHT
1990
23-May-2024
09:51
firat
tastan



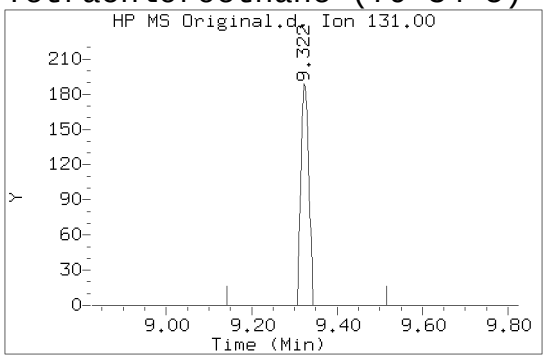
Data File : \\nahstws005\target\chem\voa9.i\u240523.b\v052204.d
Inj Date : 22-MAY-2024 21:05
InstruID : VOA9.i
LabSampID : VSTD001

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

Reason Code:

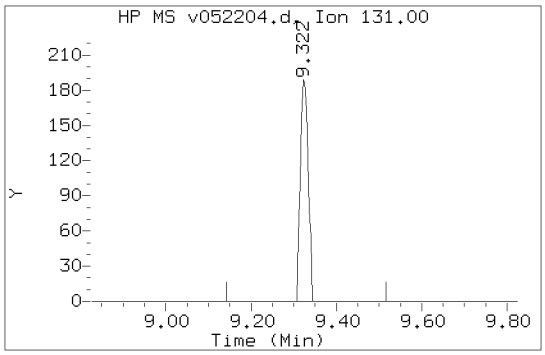
BEFORE

MASS
131
AREA
248
HEIGHT
189
23-May-2024
09:51
firat
tastan



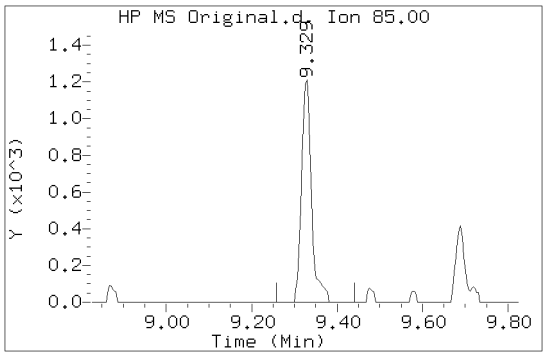
AFTER

MASS
131
AREA
248
HEIGHT
189
23-May-2024
09:51
firat
tastan



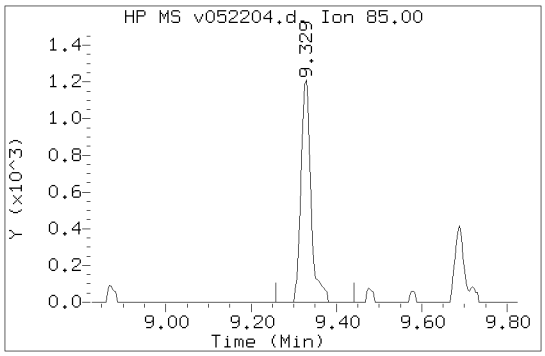
BEFORE

MASS
85
AREA
2022
HEIGHT
1211
23-May-2024
09:51
firat
tastan



AFTER

MASS
85
AREA
2022
HEIGHT
1211
23-May-2024
09:51
firat
tastan

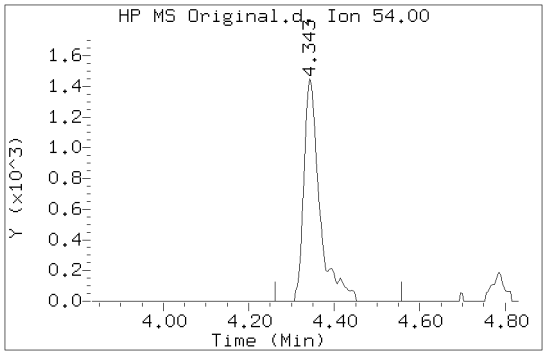


Propionitrile (107-12-0)

Reason Code:

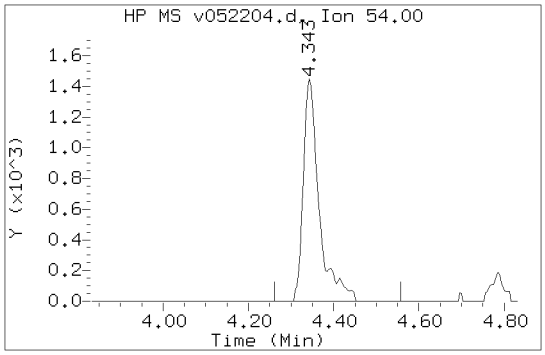
BEFORE

MASS
54
AREA
3786
HEIGHT
1449
23-May-2024
09:51
firat
tastan



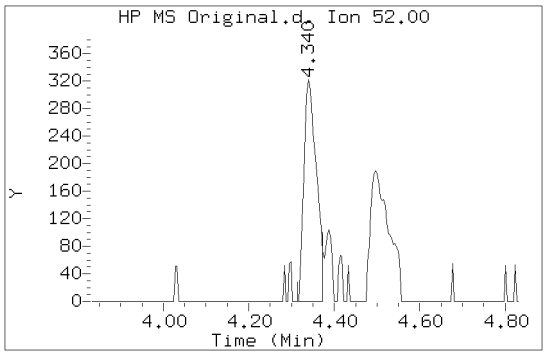
AFTER

MASS
54
AREA
3786
HEIGHT
1449
23-May-2024
09:51
firat
tastan



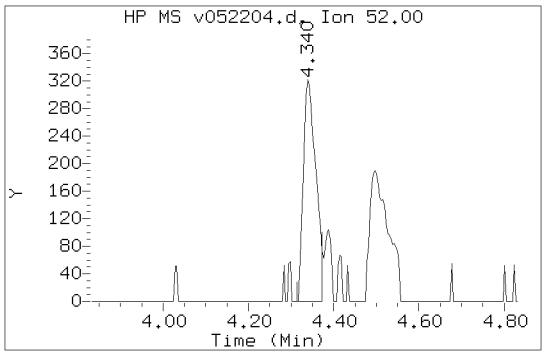
BEFORE

MASS
52
AREA
666
HEIGHT
322
23-May-2024
09:51
firat
tastan



AFTER

MASS
52
AREA
666
HEIGHT
322
23-May-2024
09:51
firat
tastan



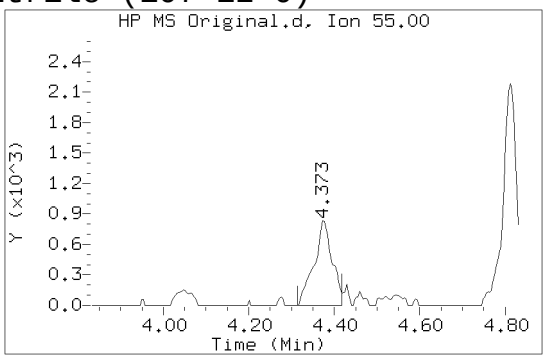
Data File : \\nahstws005\target\chem\voa9.i\u240523.b\v052204.d
Inj Date : 22-MAY-2024 21:05
InstruID : VOA9.i
LabSampID : VSTD001

Propionitrile (107-12-0)

Reason Code:

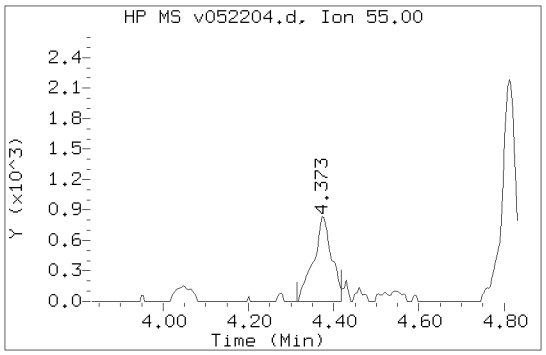
BEFORE

MASS
55
AREA
2474
HEIGHT
835
23-May-2024
09:51
firat
tastan



AFTER

MASS
55
AREA
2474
HEIGHT
835
23-May-2024
09:51
firat
tastan

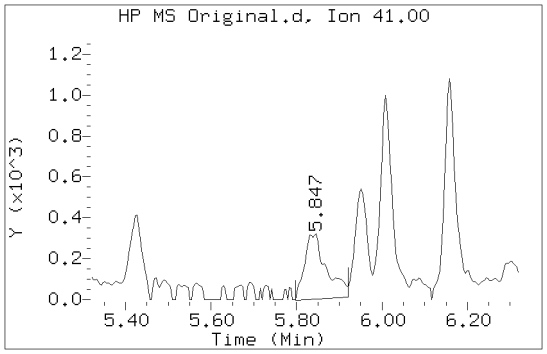


Methyl Methacrylate (80-62-6)

Reason Code:

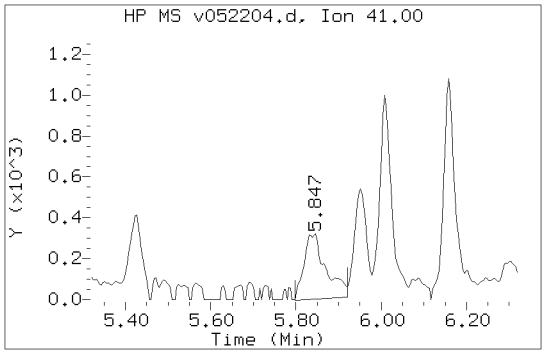
BEFORE

MASS
41
AREA
1155
HEIGHT
319
23-May-2024
09:51
firat
tastan



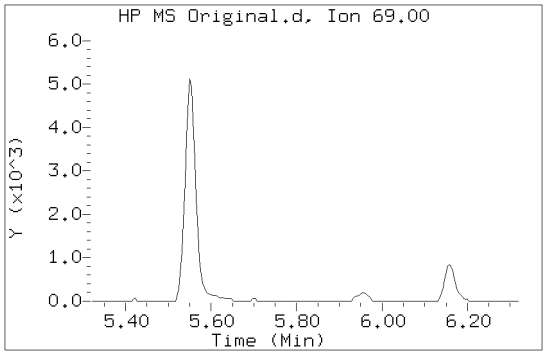
AFTER

MASS
41
AREA
1155
HEIGHT
319
23-May-2024
09:51
firat
tastan



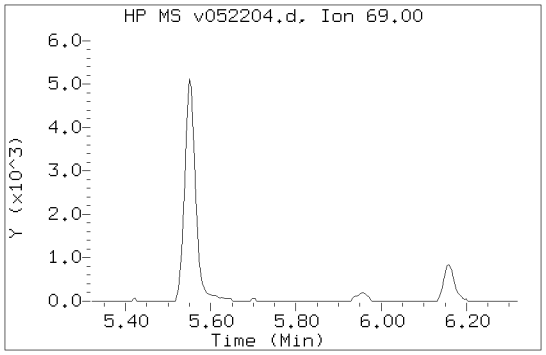
BEFORE

MASS
69
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



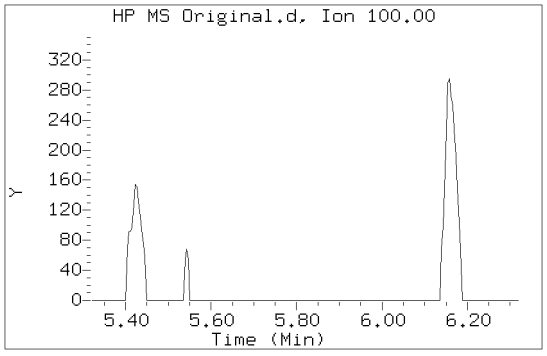
AFTER

MASS
69
AREA
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HEIGHT
0
23-May-2024
09:51
firat
tastan



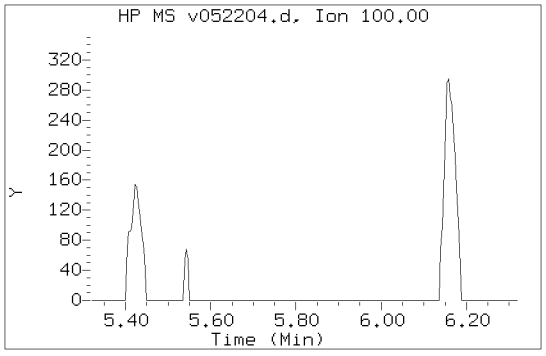
BEFORE

MASS
100
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



AFTER

MASS
100
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



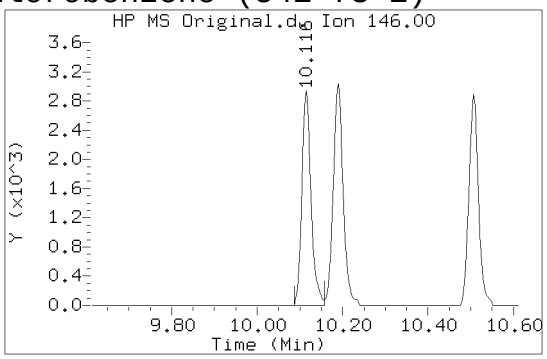
Data File : \\nahstws005\target\chem\voa9.i\u240523.b\v052204.d
Inj Date : 22-MAY-2024 21:05
InstruID : VOA9.i
LabSampID : VSTD001

1,3-Dichlorobenzene (541-73-1)

Reason Code:

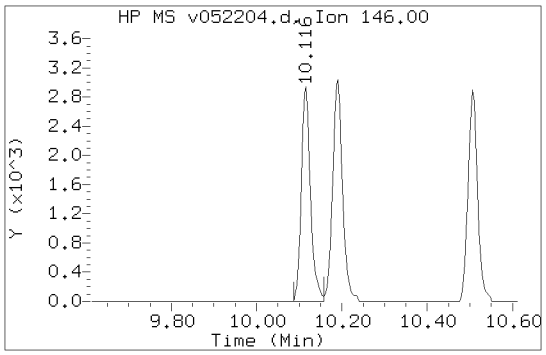
BEFORE

MASS
146
AREA
4451
HEIGHT
2942
23-May-2024
09:51
firat
tastan



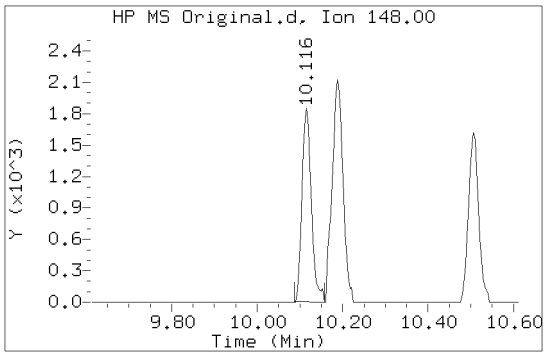
AFTER

MASS
146
AREA
4451
HEIGHT
2942
23-May-2024
09:51
firat
tastan



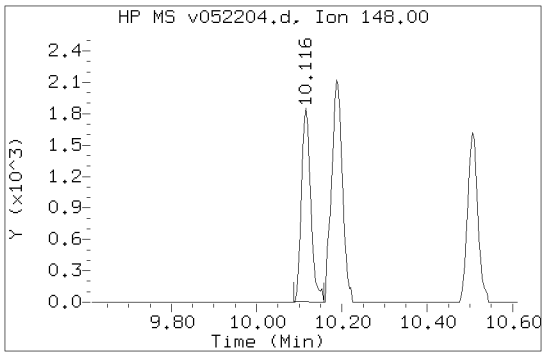
BEFORE

MASS
148
AREA
2855
HEIGHT
1849
23-May-2024
09:51
firat
tastan



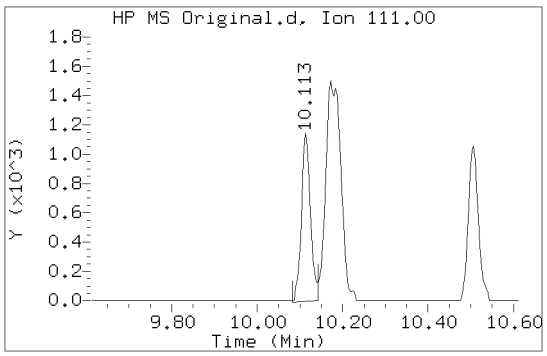
AFTER

MASS
148
AREA
2855
HEIGHT
1849
23-May-2024
09:51
firat
tastan



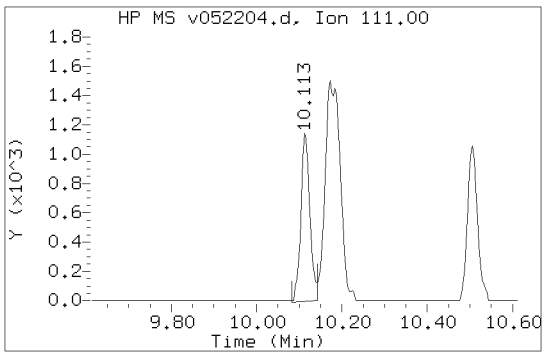
BEFORE

MASS
111
AREA
1727
HEIGHT
1147
23-May-2024
09:51
firat
tastan



AFTER

MASS
111
AREA
1727
HEIGHT
1147
23-May-2024
09:51
firat
tastan

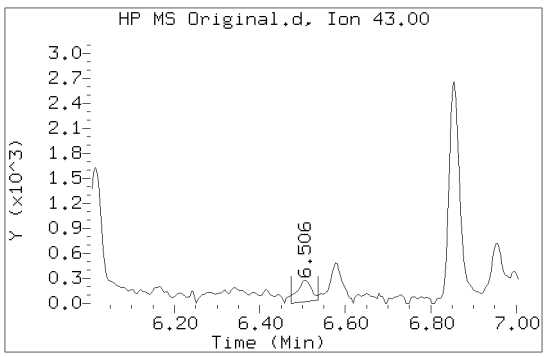


2-Nitropropane (79-46-9)

Reason Code:

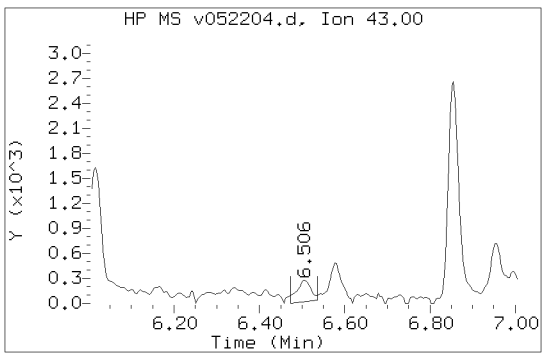
BEFORE

MASS
43
AREA
621
HEIGHT
257
23-May-2024
09:51
firat
tastan



AFTER

MASS
43
AREA
621
HEIGHT
257
23-May-2024
09:51
firat
tastan



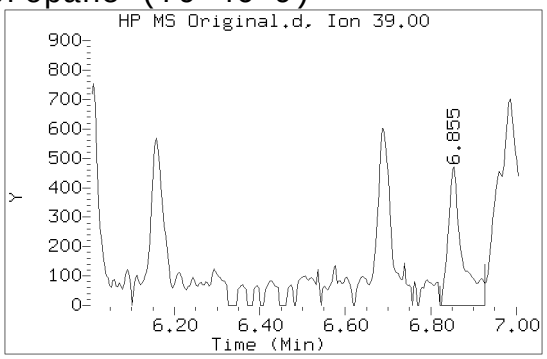
Data File : \\nahstws005\target\chem\voa9.i\u240523.b\v052204.d
Inj Date : 22-MAY-2024 21:05
InstruID : VOA9.i
LabSampID : VSTD001

2-Nitropropane (79-46-9)

Reason Code:

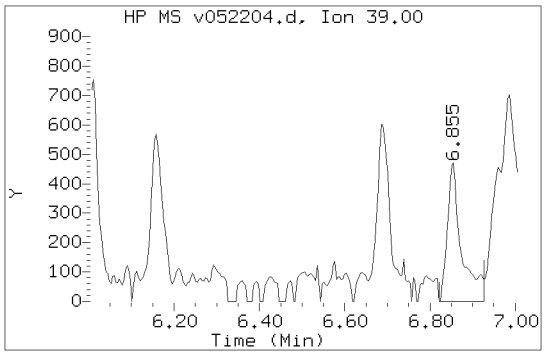
BEFORE

MASS
39
AREA
1085
HEIGHT
471
23-May-2024
09:51
firat
tastan



AFTER

MASS
39
AREA
1085
HEIGHT
471
23-May-2024
09:51
firat
tastan

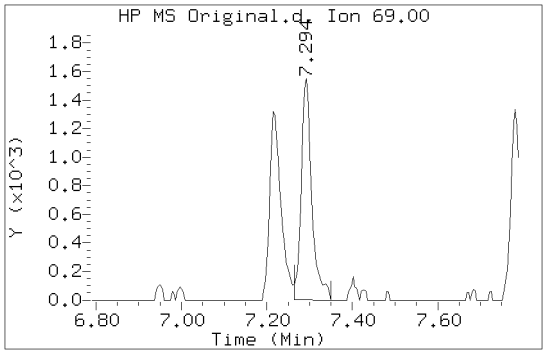


Ethyl Methacrylate (97-63-2)

Reason Code:

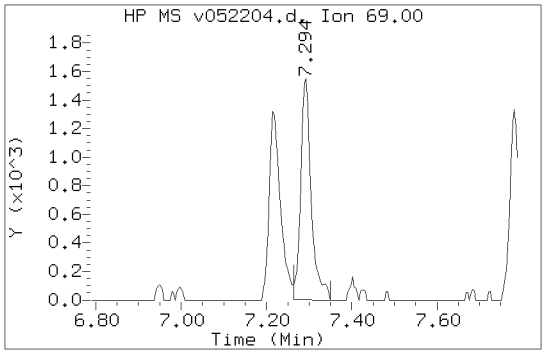
BEFORE

MASS
69
AREA
2724
HEIGHT
1550
23-May-2024
09:51
firat
tastan



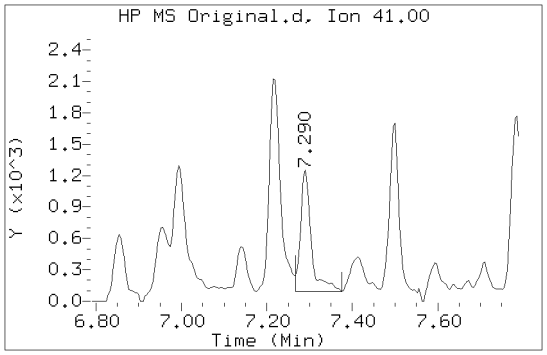
AFTER

MASS
69
AREA
2724
HEIGHT
1550
23-May-2024
09:51
firat
tastan



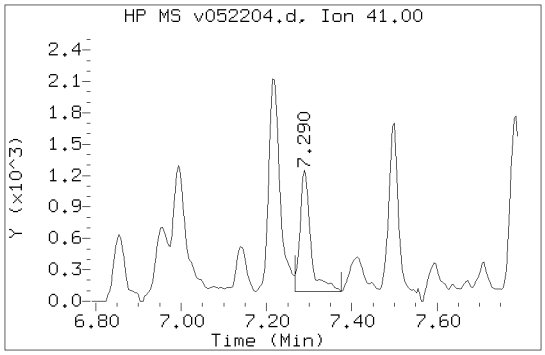
BEFORE

MASS
41
AREA
2068
HEIGHT
1157
23-May-2024
09:51
firat
tastan



AFTER

MASS
41
AREA
2068
HEIGHT
1157
23-May-2024
09:51
firat
tastan

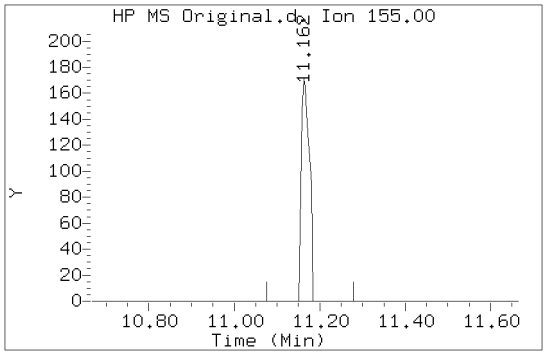


1,2-Dibromo-3-Chloropropane (96-12-8)

Reason Code:

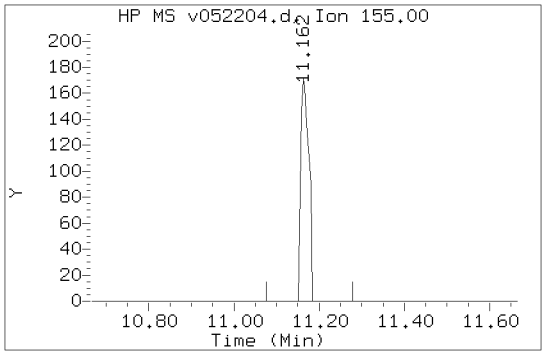
BEFORE

MASS
155
AREA
232
HEIGHT
171
23-May-2024
09:51
firat
tastan



AFTER

MASS
155
AREA
232
HEIGHT
171
23-May-2024
09:51
firat
tastan



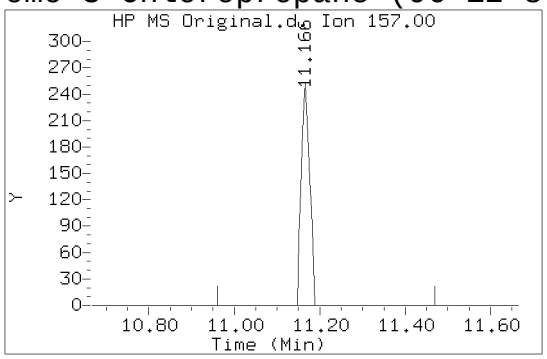
Data File : \\nahstws005\target\chem\voa9.i\u240523.b\v052204.d
Inj Date : 22-MAY-2024 21:05
InstruID : VOA9.i
LabSampID : VSTD001

1,2-Dibromo-3-Chloropropane (96-12-8)

Reason Code:

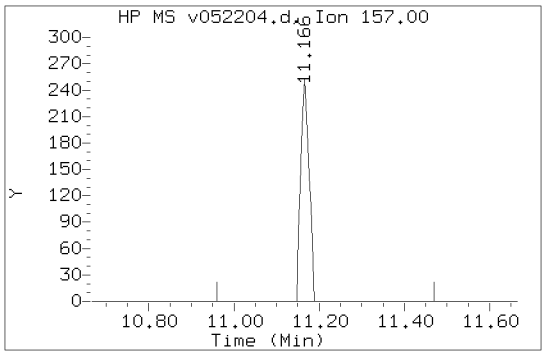
BEFORE

MASS
157
AREA
358
HEIGHT
252
23-May-2024
09:51
firat
tastan



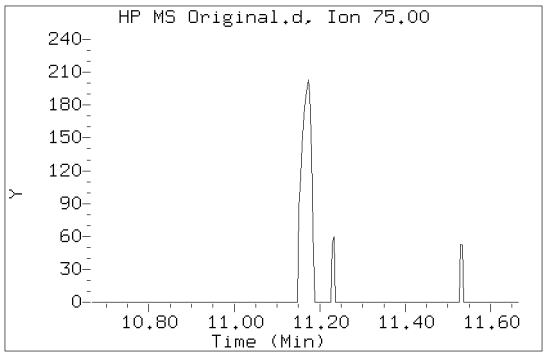
AFTER

MASS
157
AREA
358
HEIGHT
252
23-May-2024
09:51
firat
tastan



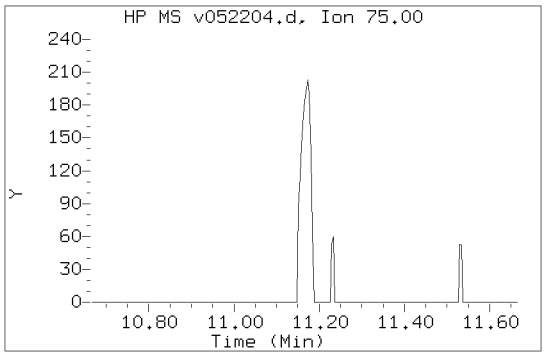
BEFORE

MASS
75
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



AFTER

MASS
75
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan

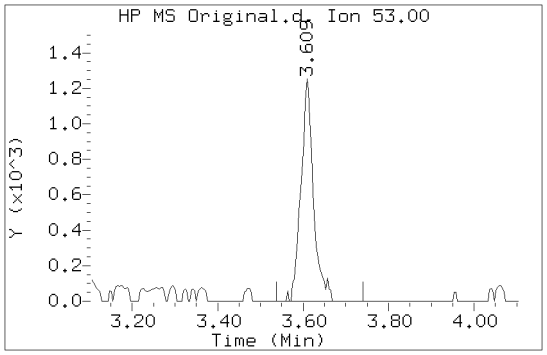


Chloroprene (126-99-8)

Reason Code:

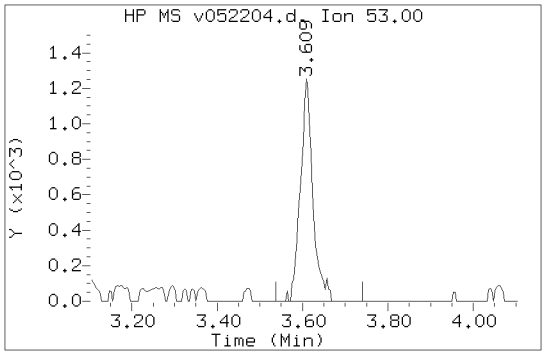
BEFORE

MASS
53
AREA
2599
HEIGHT
1253
23-May-2024
09:51
firat
tastan



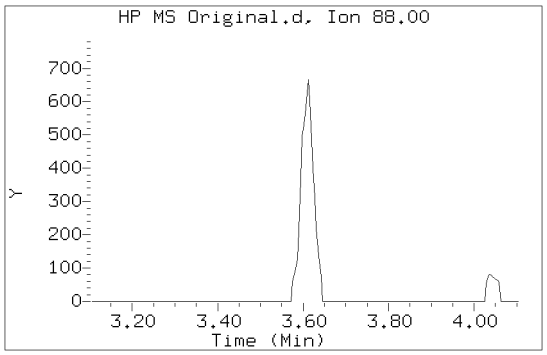
AFTER

MASS
53
AREA
2599
HEIGHT
1253
23-May-2024
09:51
firat
tastan



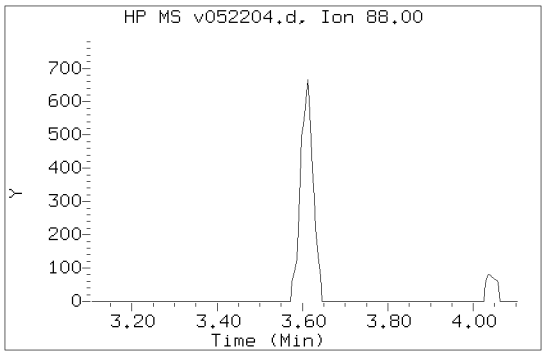
BEFORE

MASS
88
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



AFTER

MASS
88
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



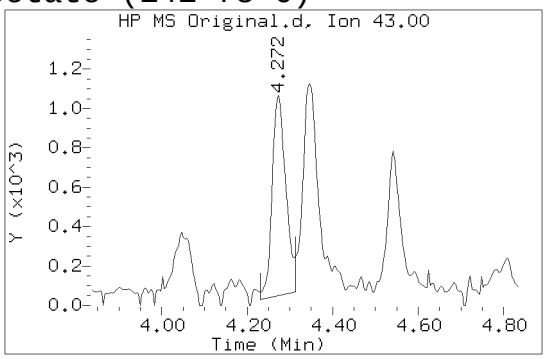
Data File : \\nahstws005\target\chem\voa9.i\u240523.b\v052204.d
Inj Date : 22-MAY-2024 21:05
InstruID : VOA9.i
LabSampID : VSTD001

Ethyl Acetate (141-78-6)

Reason Code:

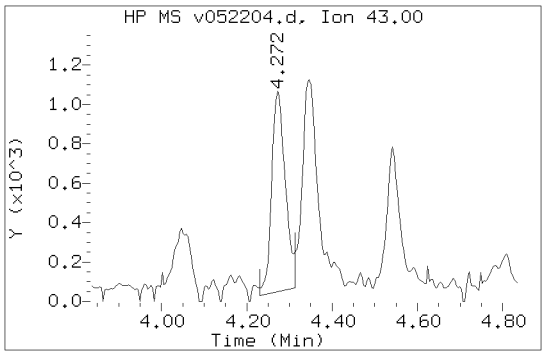
BEFORE

MASS
43
AREA
2292
HEIGHT
1017
23-May-2024
09:51
firat
tastan



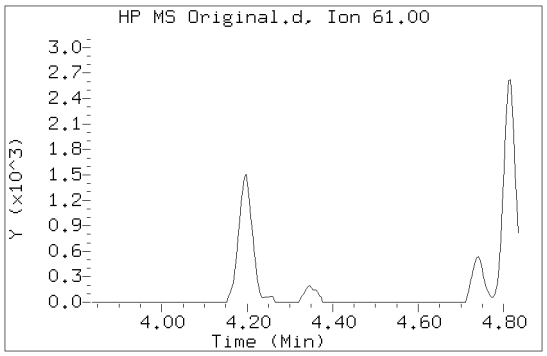
AFTER

MASS
43
AREA
2292
HEIGHT
1017
23-May-2024
09:51
firat
tastan



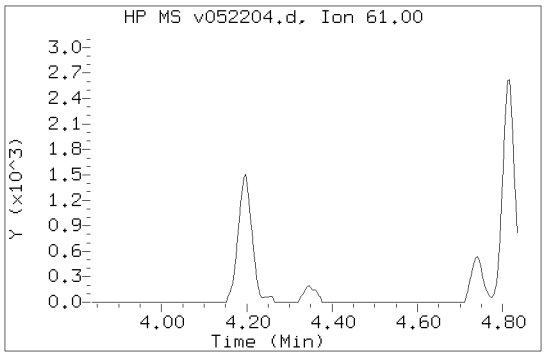
BEFORE

MASS
61
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



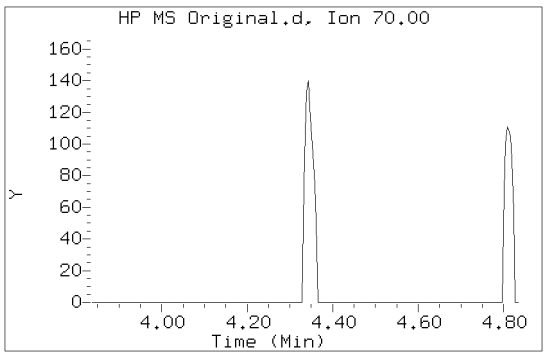
AFTER

MASS
61
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



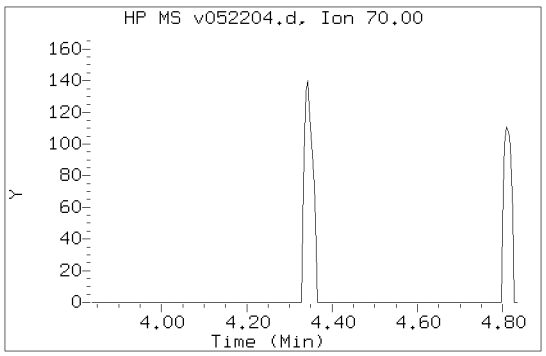
BEFORE

MASS
70
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



AFTER

MASS
70
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan

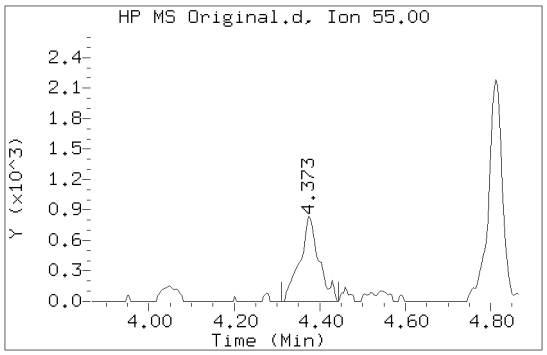


Methyl Acrylate (96-33-3)

Reason Code:

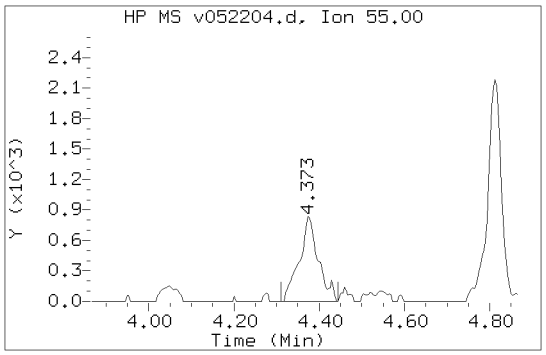
BEFORE

MASS
55
AREA
2622
HEIGHT
835
23-May-2024
09:51
firat
tastan



AFTER

MASS
55
AREA
2622
HEIGHT
835
23-May-2024
09:51
firat
tastan



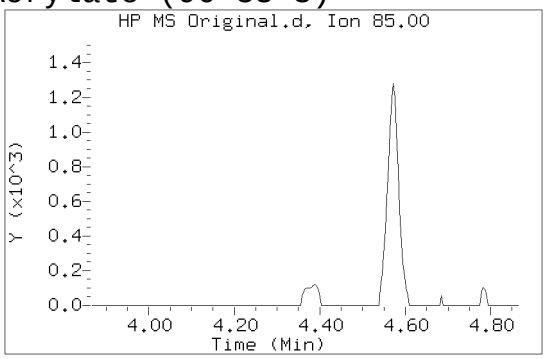
Data File : \\nahstws005\target\chem\voa9.i\u240523.b\v052204.d
Inj Date : 22-MAY-2024 21:05
InstruID : VOA9.i
LabSampID : VSTD001

Methyl Acrylate (96-33-3)

Reason Code:

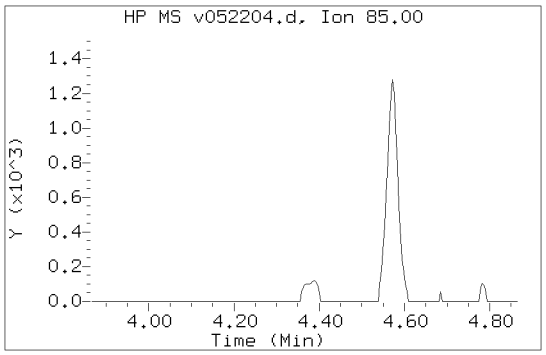
BEFORE

MASS
85
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



AFTER

MASS
85
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan

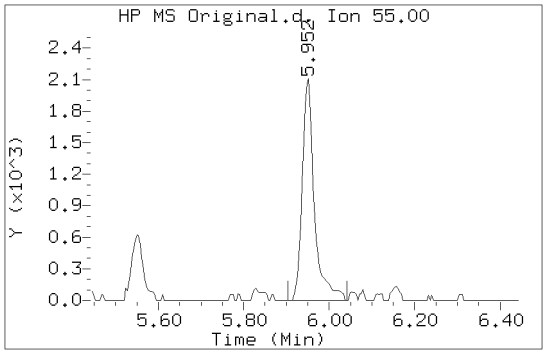


Ethyl Acrylate (140-88-5)

Reason Code:

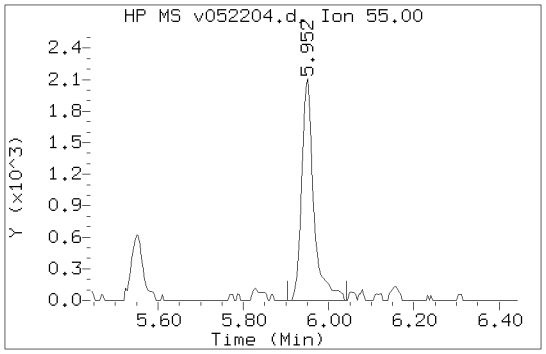
BEFORE

MASS
55
AREA
4243
HEIGHT
2109
23-May-2024
09:51
firat
tastan



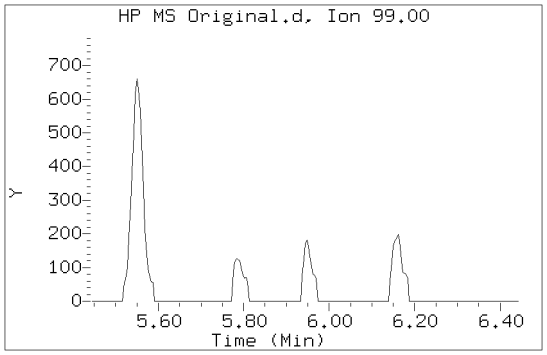
AFTER

MASS
55
AREA
4243
HEIGHT
2109
23-May-2024
09:51
firat
tastan



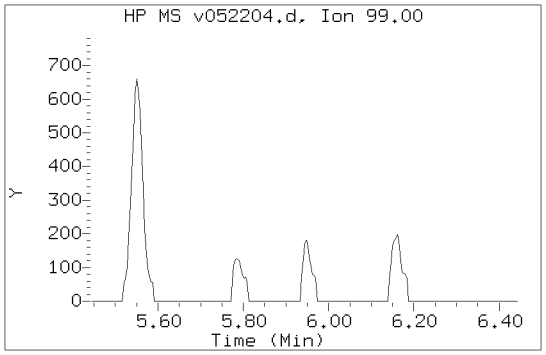
BEFORE

MASS
99
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



AFTER

MASS
99
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan

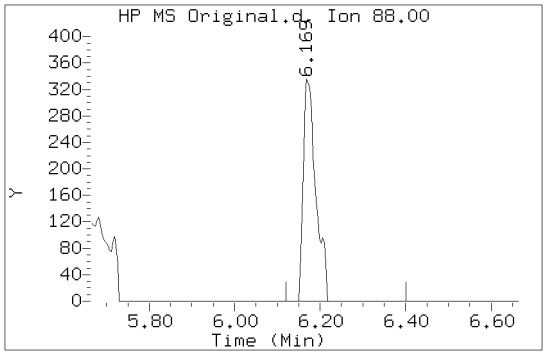


1,4-Dioxane ()

Reason Code:

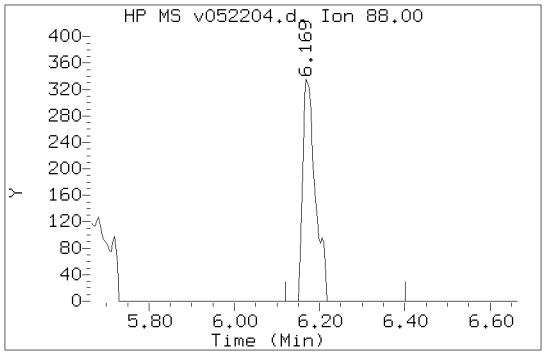
BEFORE

MASS
88
AREA
700
HEIGHT
336
23-May-2024
09:51
firat
tastan



AFTER

MASS
88
AREA
700
HEIGHT
336
23-May-2024
09:51
firat
tastan



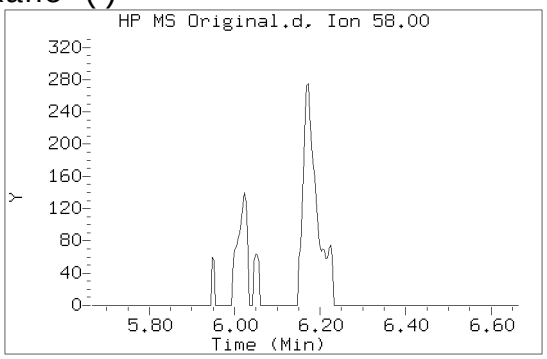
Data File : \\nahstws005\target\chem\voa9.i\u240523.b\v052204.d
Inj Date : 22-MAY-2024 21:05
InstruID : VOA9.i
LabSampID : VSTD001

1,4-Dioxane ()

Reason Code:

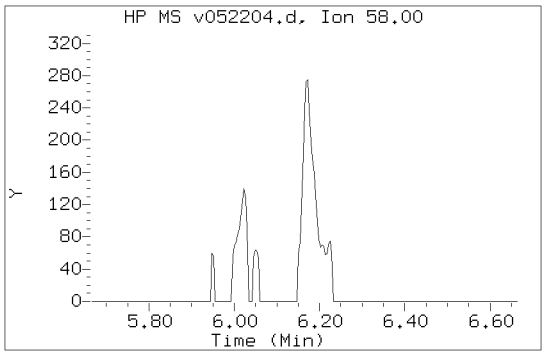
BEFORE

MASS
58
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



AFTER

MASS
58
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan

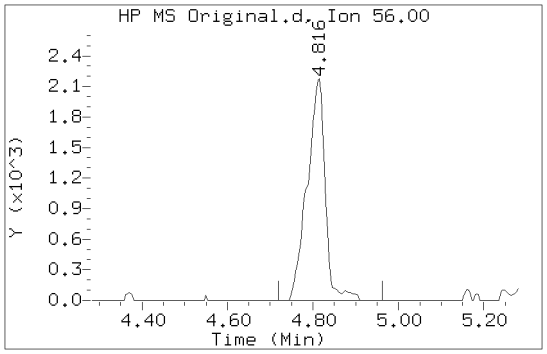


Cyclohexane (110-82-7)

Reason Code:

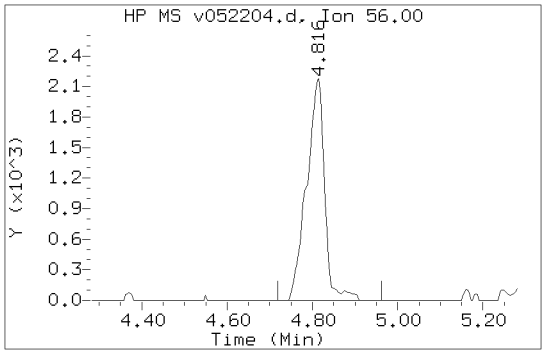
BEFORE

MASS
56
AREA
6419
HEIGHT
2176
23-May-2024
09:51
firat
tastan



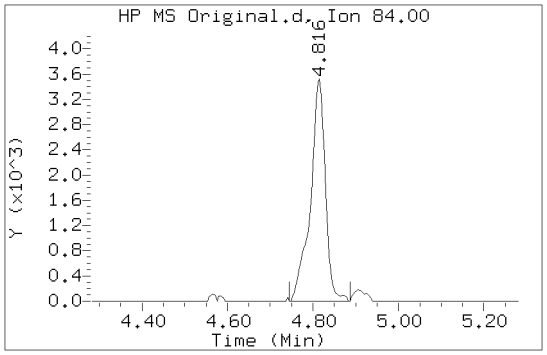
AFTER

MASS
56
AREA
6419
HEIGHT
2176
23-May-2024
09:51
firat
tastan



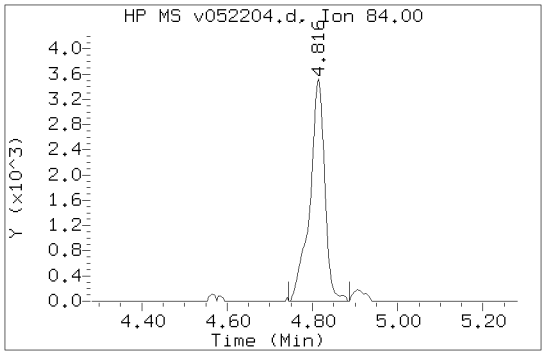
BEFORE

MASS
84
AREA
8594
HEIGHT
3524
23-May-2024
09:51
firat
tastan



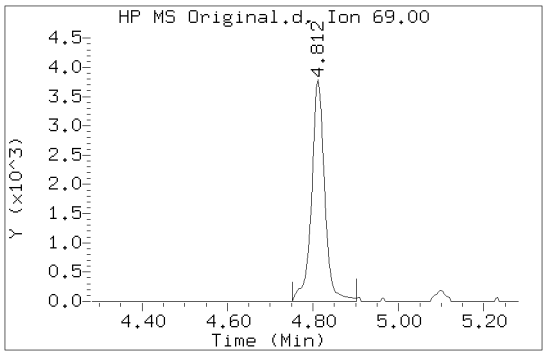
AFTER

MASS
84
AREA
8594
HEIGHT
3524
23-May-2024
09:51
firat
tastan



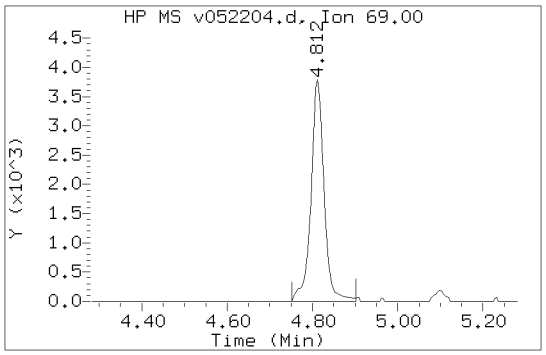
BEFORE

MASS
69
AREA
8082
HEIGHT
3789
23-May-2024
09:51
firat
tastan



AFTER

MASS
69
AREA
8082
HEIGHT
3789
23-May-2024
09:51
firat
tastan



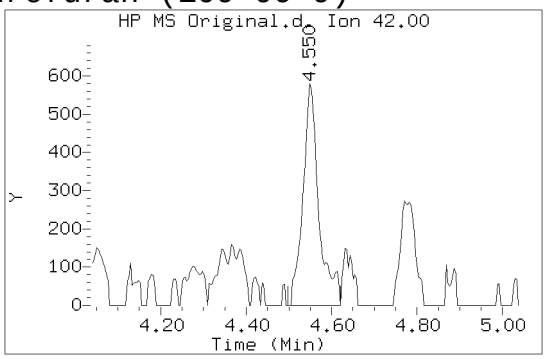
Data File : \\nahstws005\target\chem\voa9.i\u240523.b\v052204.d
Inj Date : 22-MAY-2024 21:05
InstruID : VOA9.i
LabSampID : VSTD001

Tetrahydrofuran (109-99-9)

Reason Code:

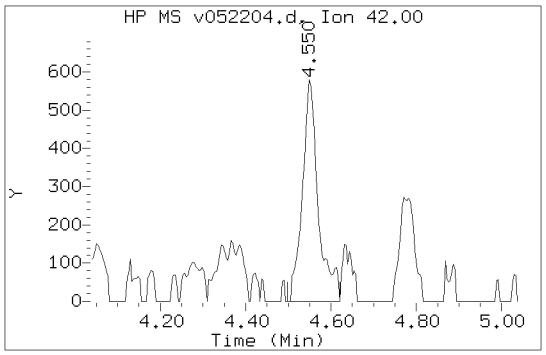
BEFORE

MASS
42
AREA
1504
HEIGHT
580
23-May-2024
09:51
firat
tastan



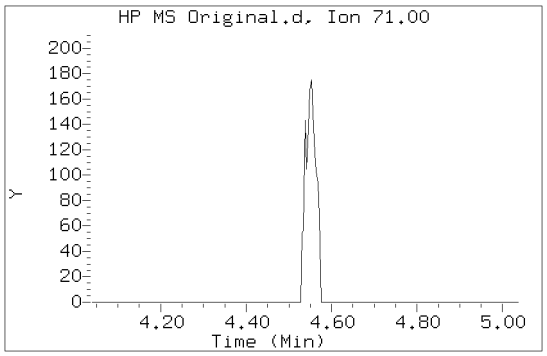
AFTER

MASS
42
AREA
1504
HEIGHT
580
23-May-2024
09:51
firat
tastan



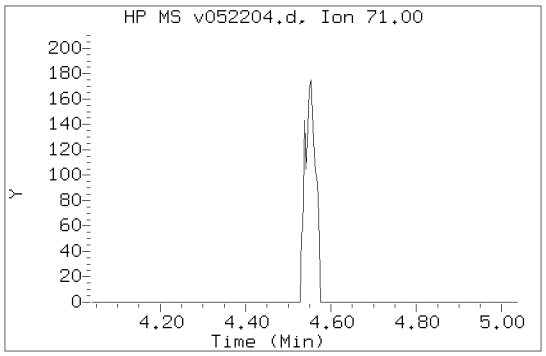
BEFORE

MASS
71
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



AFTER

MASS
71
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan

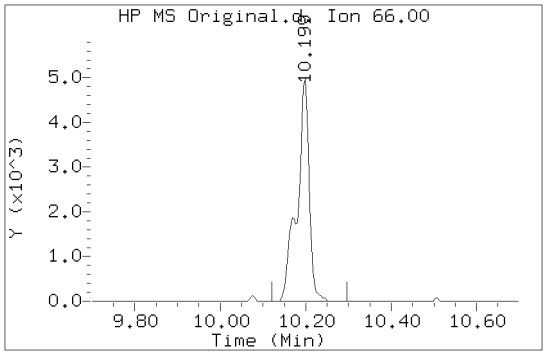


Dicyclopentadiene (77-73-6)

Reason Code:

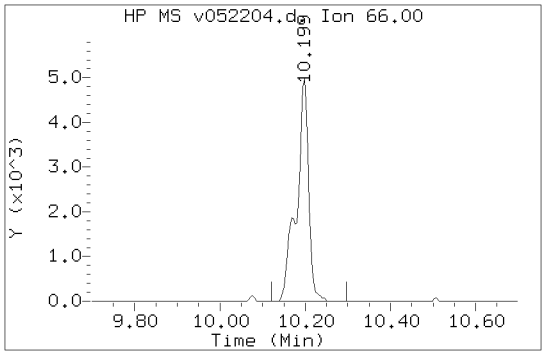
BEFORE

MASS
66
AREA
10054
HEIGHT
4974
23-May-2024
09:51
firat
tastan



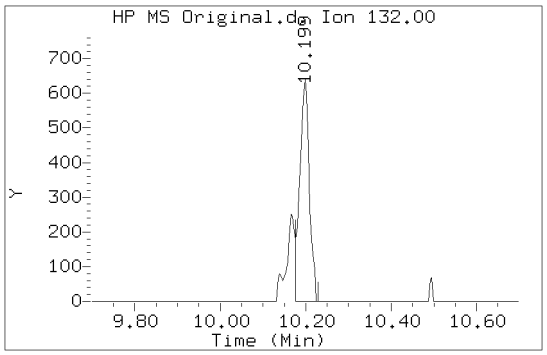
AFTER

MASS
66
AREA
10054
HEIGHT
4974
23-May-2024
09:51
firat
tastan



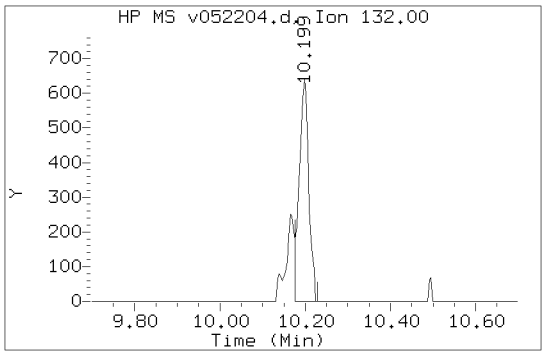
BEFORE

MASS
132
AREA
1024
HEIGHT
639
23-May-2024
09:51
firat
tastan



AFTER

MASS
132
AREA
1024
HEIGHT
639
23-May-2024
09:51
firat
tastan



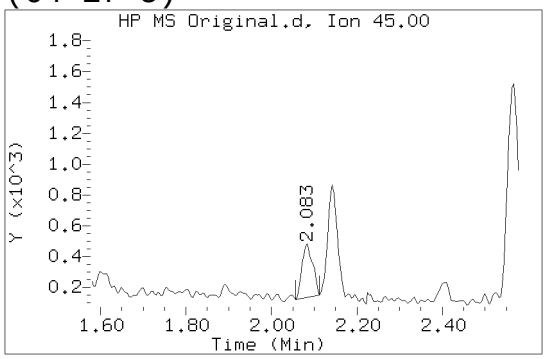
Data File : \\nahstws005\target\chem\voa9.i\u240523.b\v052204.d
Inj Date : 22-MAY-2024 21:05
InstruID : VOA9.i
LabSampID : VSTD001

Ethanol (64-17-5)

Reason Code:

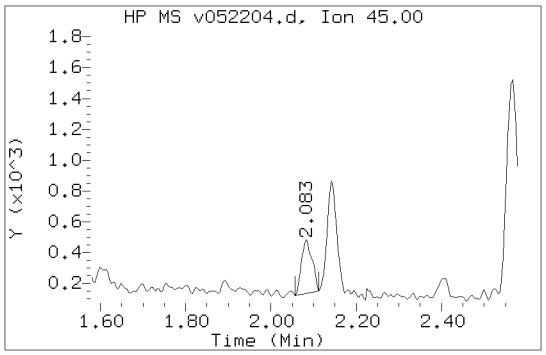
BEFORE

MASS
45
AREA
619
HEIGHT
348
23-May-2024
09:51
firat
tastan



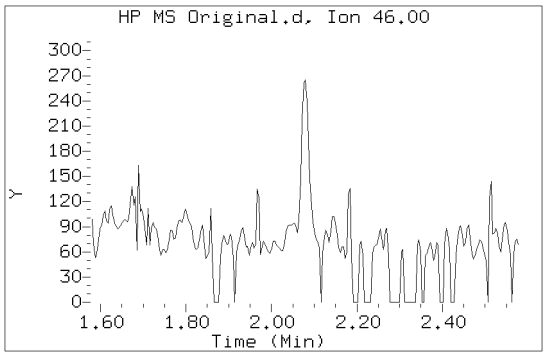
AFTER

MASS
45
AREA
619
HEIGHT
348
23-May-2024
09:51
firat
tastan



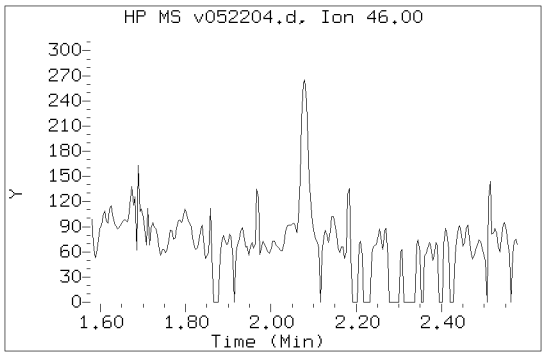
BEFORE

MASS
46
AREA
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HEIGHT
0
23-May-2024
09:51
firat
tastan



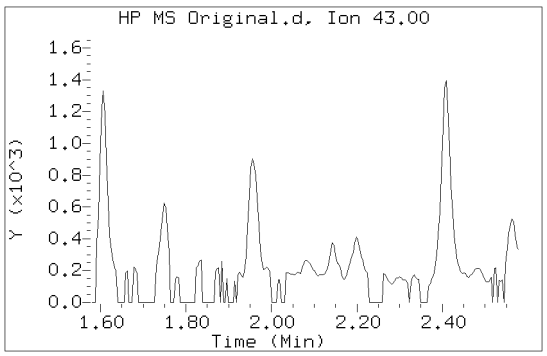
AFTER

MASS
46
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



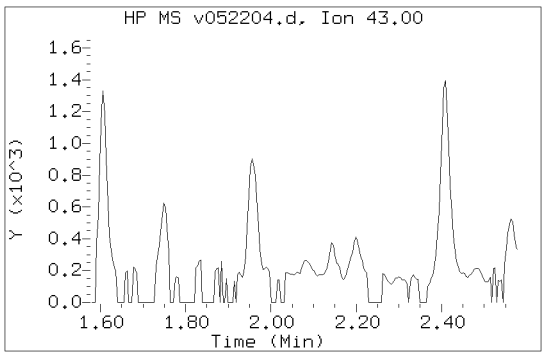
BEFORE

MASS
43
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



AFTER

MASS
43
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan

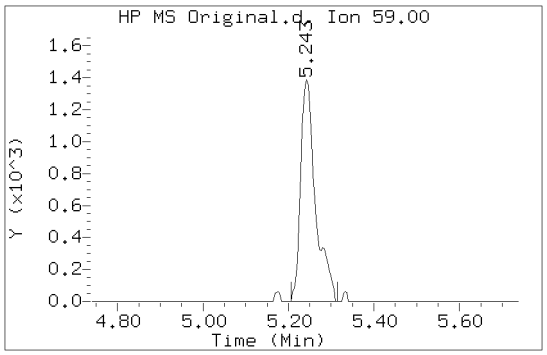


tert-Butyl formate (762-75-4)

Reason Code:

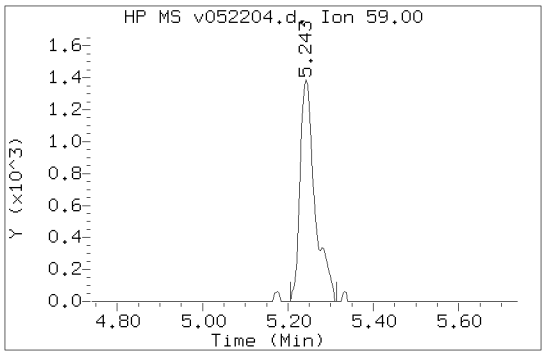
BEFORE

MASS
59
AREA
3423
HEIGHT
1388
23-May-2024
09:51
firat
tastan



AFTER

MASS
59
AREA
3423
HEIGHT
1388
23-May-2024
09:51
firat
tastan

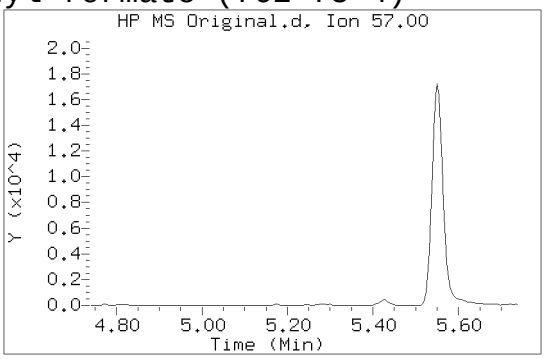


Data File : \\nahstws005\target\chem\voa9.i\u240523.b\v052204.d
Inj Date : 22-MAY-2024 21:05
InstruID : VOA9.i
LabSampID : VSTD001

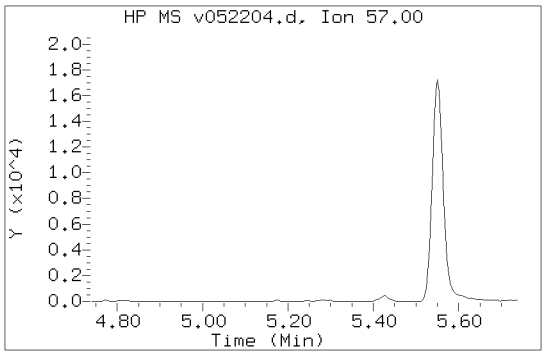
tert-Butyl formate (762-75-4)

Reason Code:

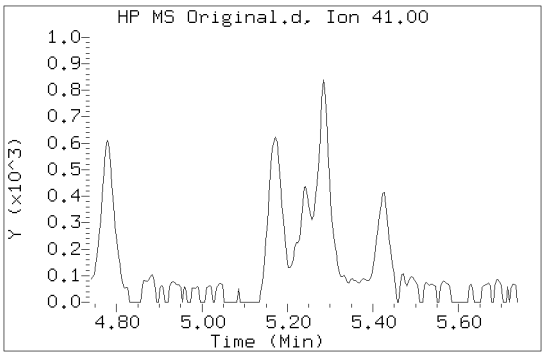
BEFORE
MASS
57
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



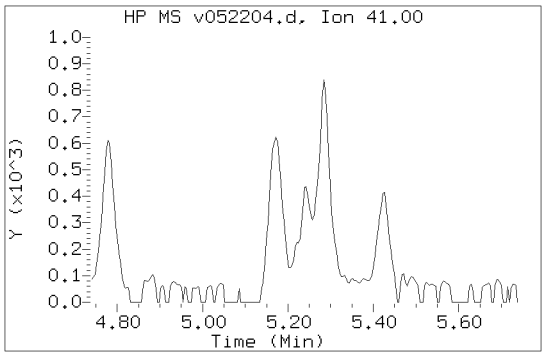
AFTER
MASS
57
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



BEFORE
MASS
41
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



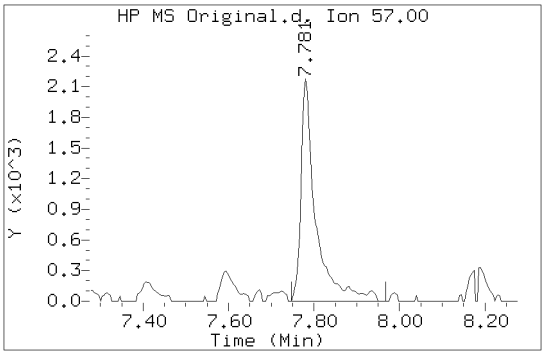
AFTER
MASS
41
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



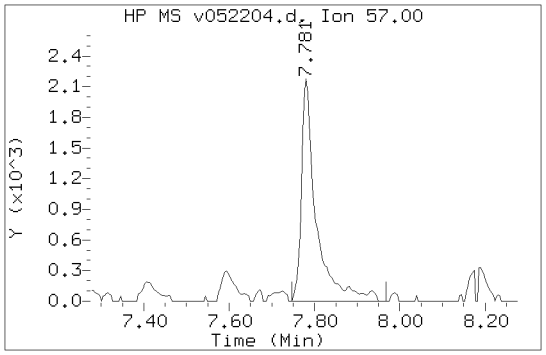
3,3-Dimethyl-1-butanol (624-95-3)

Reason Code:

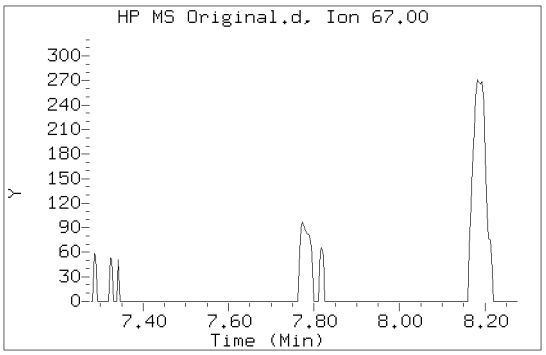
BEFORE
MASS
57
AREA
5298
HEIGHT
2176
23-May-2024
09:51
firat
tastan



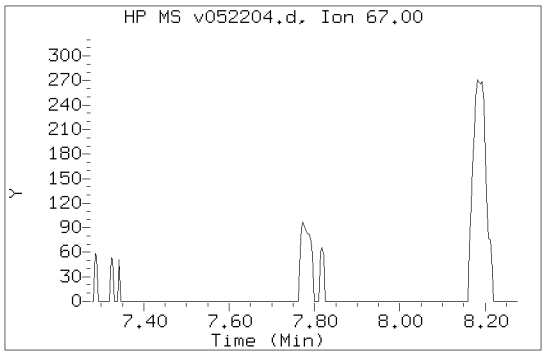
AFTER
MASS
57
AREA
5298
HEIGHT
2176
23-May-2024
09:51
firat
tastan



BEFORE
MASS
67
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



AFTER
MASS
67
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



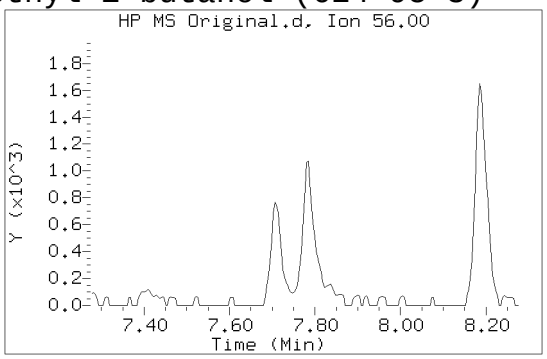
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Inj Date : 22-MAY-2024 21:05
InstruID : VOA9.i
LabSampID : VSTD001

3,3-Dimethyl-1-butanol (624-95-3)

Reason Code:

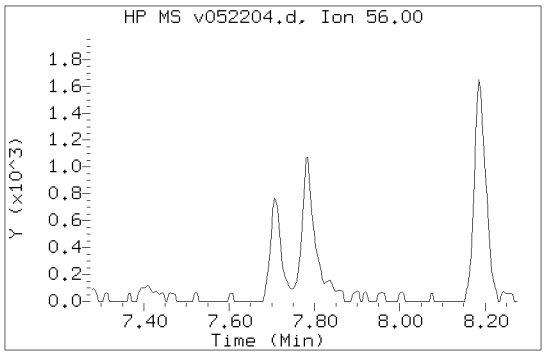
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23-May-2024
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AFTER

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23-May-2024
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firat
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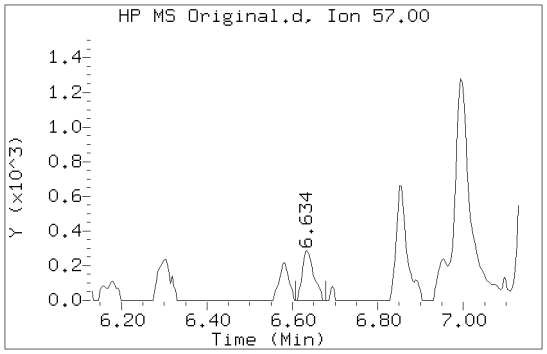


Epichlorohydrin (106-89-8)

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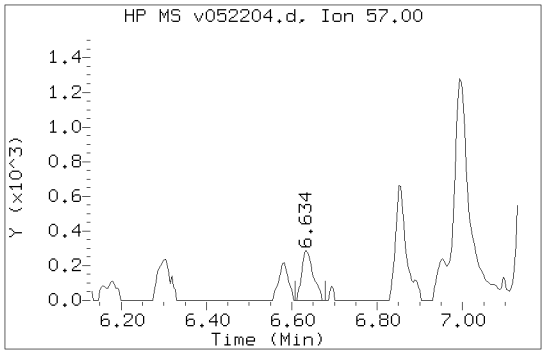
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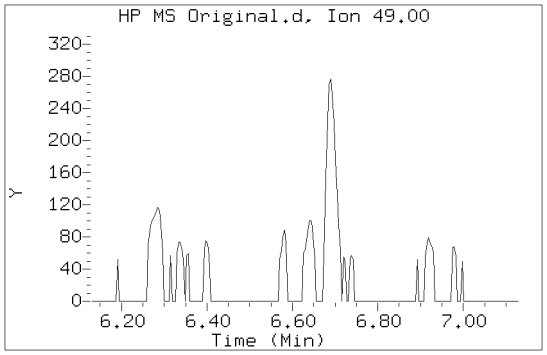
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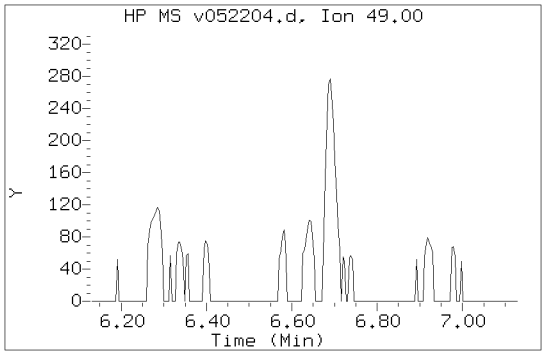
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AFTER

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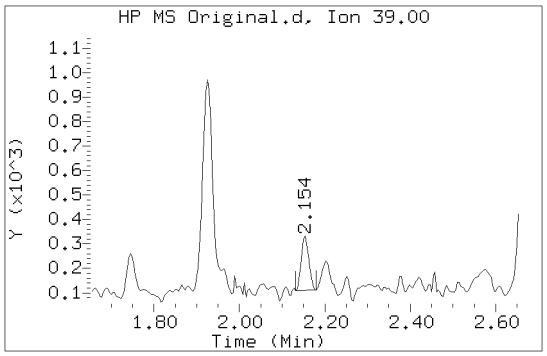


Isoprene (78-79-5)

Reason Code:

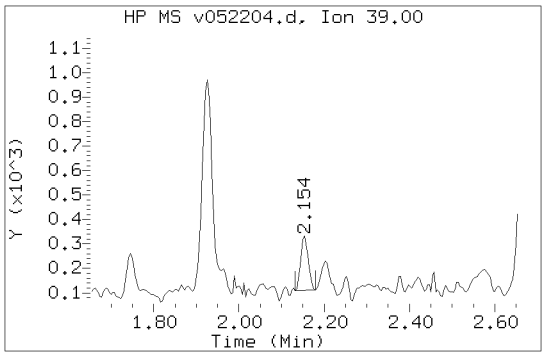
BEFORE

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23-May-2024
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AFTER

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HEIGHT
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23-May-2024
09:51
firat
tastan

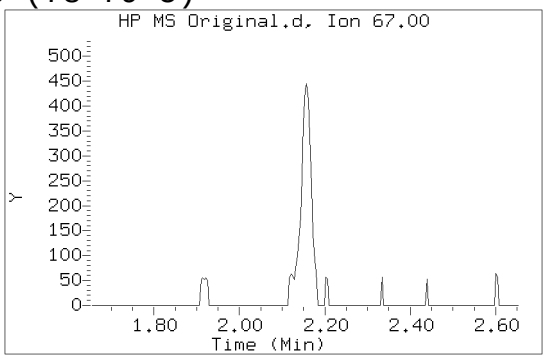


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Inj Date : 22-MAY-2024 21:05
InstruID : VOA9.i
LabSampID : VSTD001

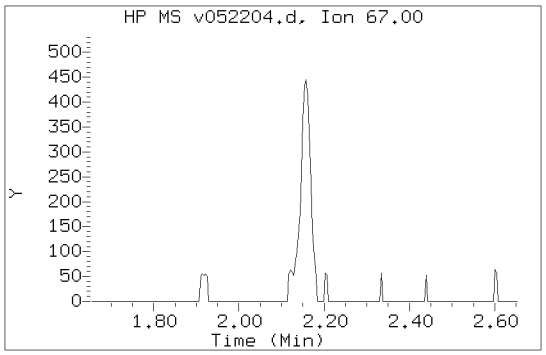
Isoprene (78-79-5)

Reason Code:

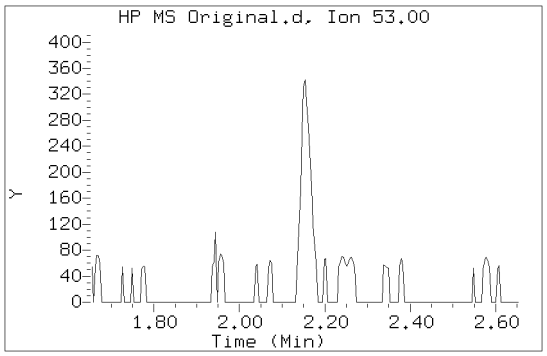
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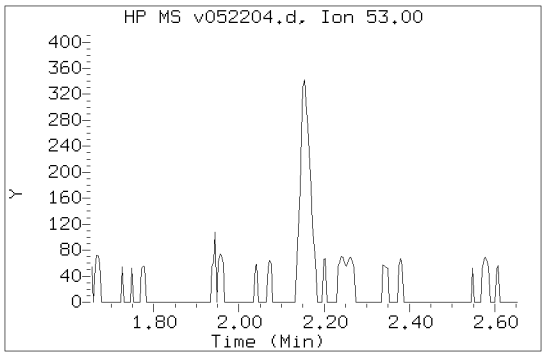
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BEFORE
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23-May-2024
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firat
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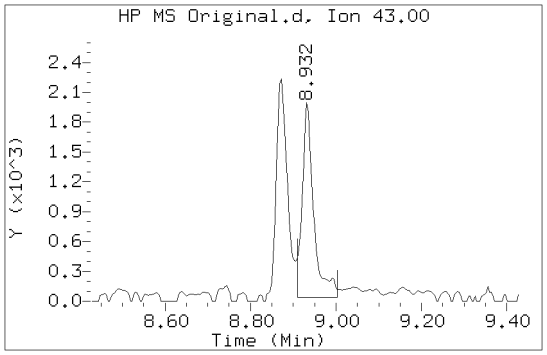
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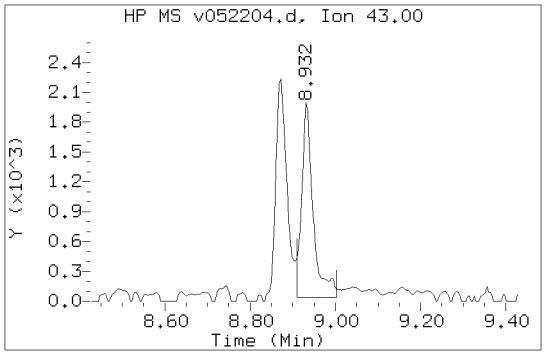
n-Amyl acetate (628-63-7)

Reason Code:

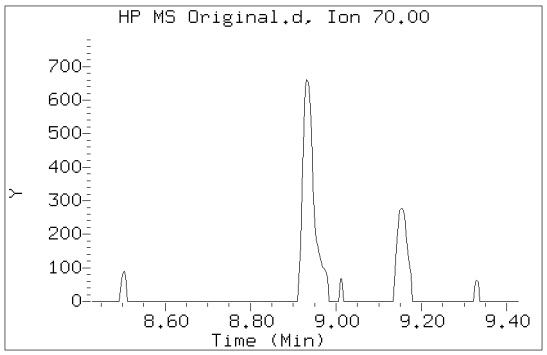
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23-May-2024
09:51
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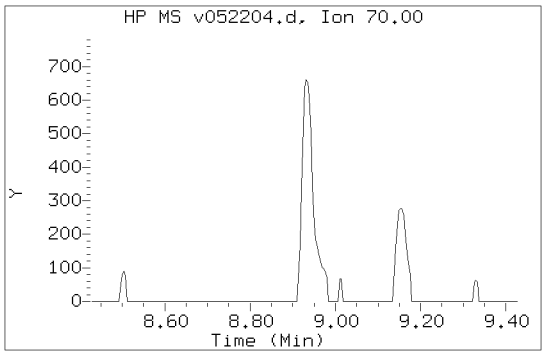
AFTER
MASS
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AREA
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HEIGHT
1962
23-May-2024
09:51
firat
tastan



BEFORE
MASS
70
AREA
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HEIGHT
0
23-May-2024
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AFTER
MASS
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23-May-2024
09:51
firat
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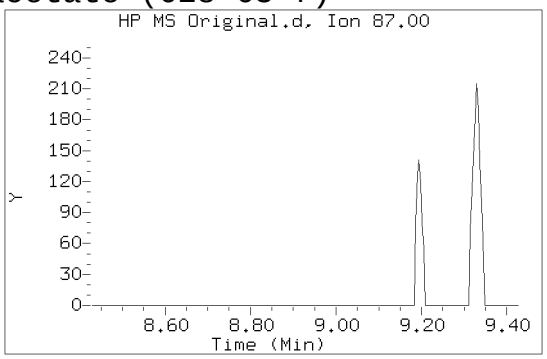
Data File : \\nahstws005\target\chem\voa9.i\u240523.b\v052204.d
Inj Date : 22-MAY-2024 21:05
InstruID : VOA9.i
LabSampID : VSTD001

n-Amyl acetate (628-63-7)

Reason Code:

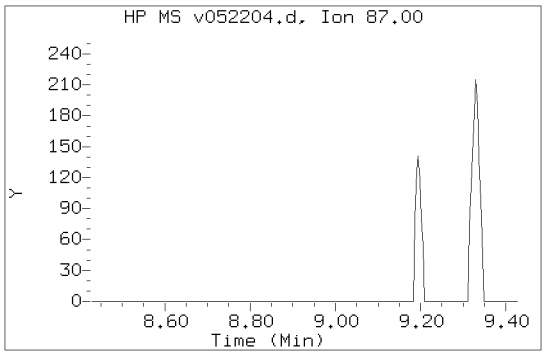
BEFORE

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23-May-2024
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AFTER

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23-May-2024
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firat
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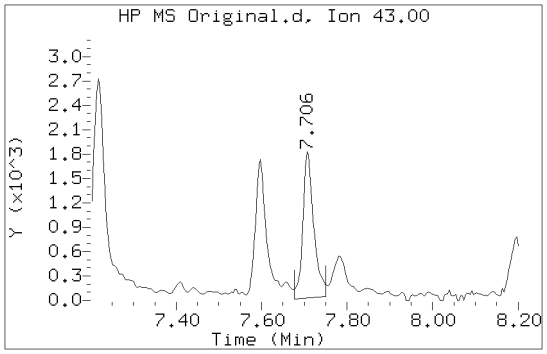


n-Butyl acetate (123-86-4)

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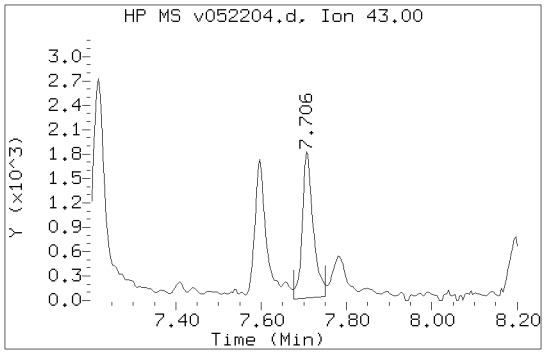
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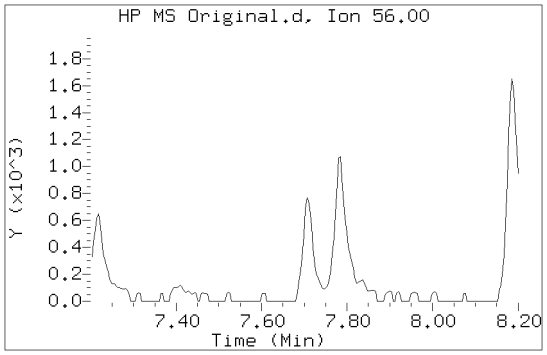
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firat
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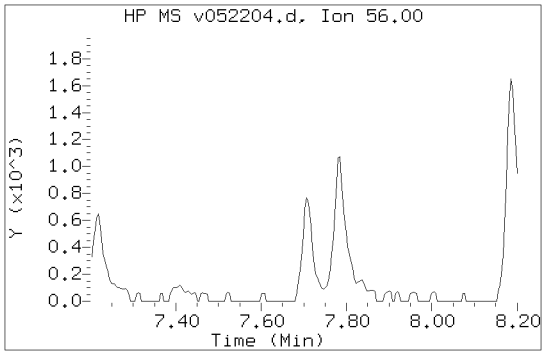
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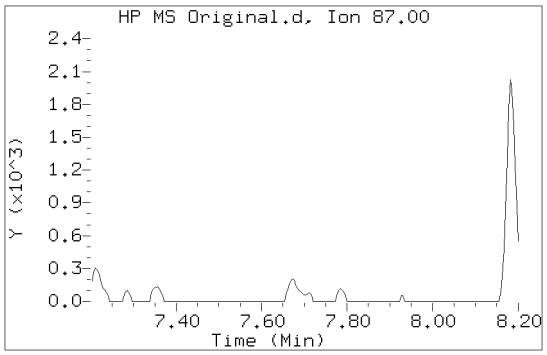
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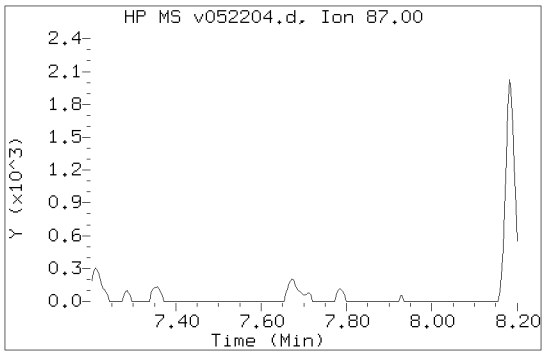
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AFTER

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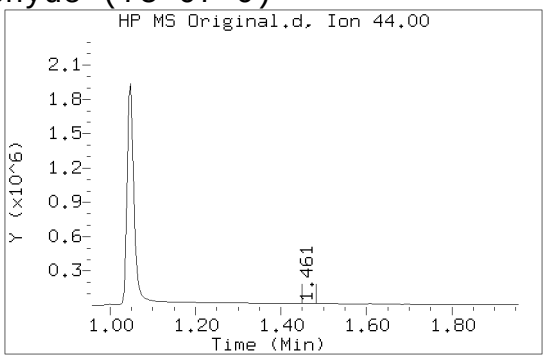
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Inj Date : 22-MAY-2024 21:05
InstruID : VOA9.i
LabSampID : VSTD001

Acetaldehyde (75-07-0)

Reason Code:

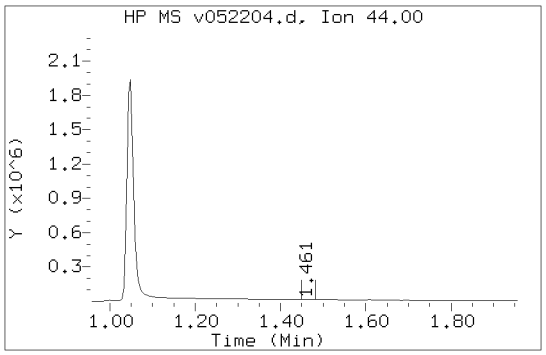
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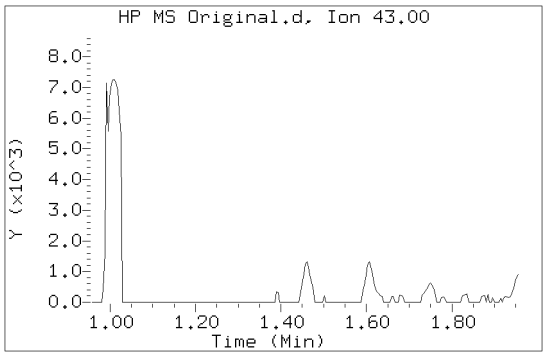
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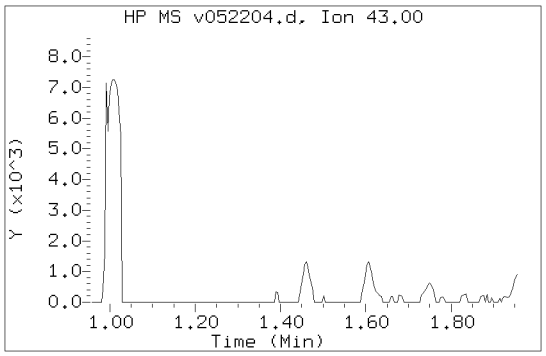
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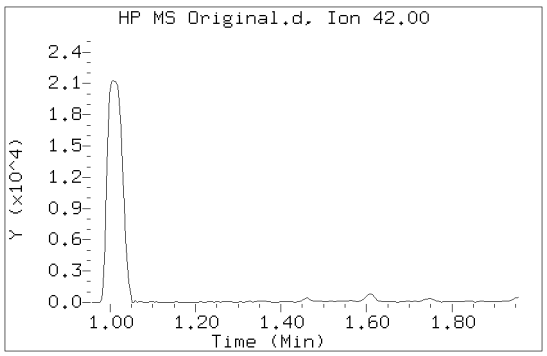
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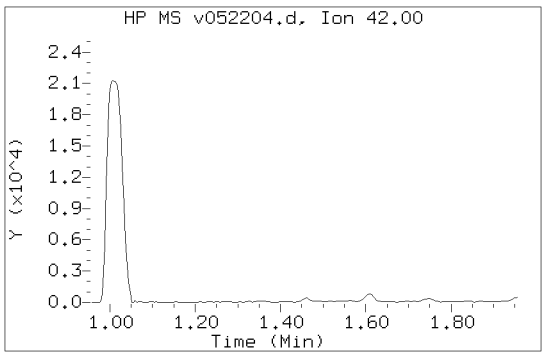
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AFTER

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23-May-2024
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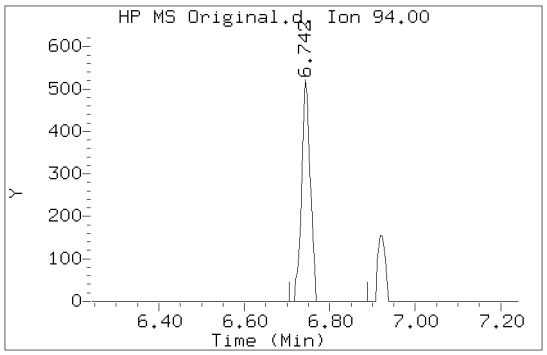


Dimethyl Disulfide (624-92-0)

Reason Code:

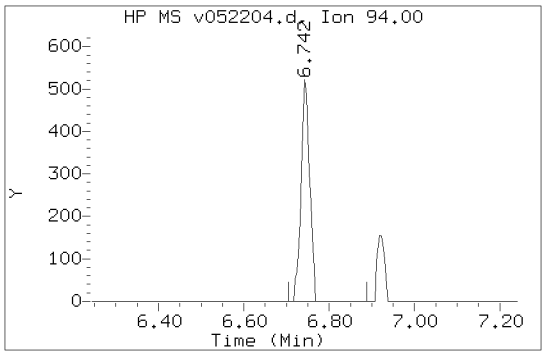
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23-May-2024
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AFTER

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751
HEIGHT
522
23-May-2024
09:51
firat
tastan



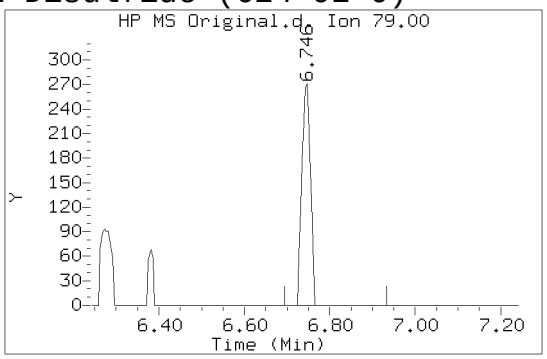
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Inj Date : 22-MAY-2024 21:05
InstruID : VOA9.i
LabSampID : VSTD001

Dimethyl Disulfide (624-92-0)

Reason Code:

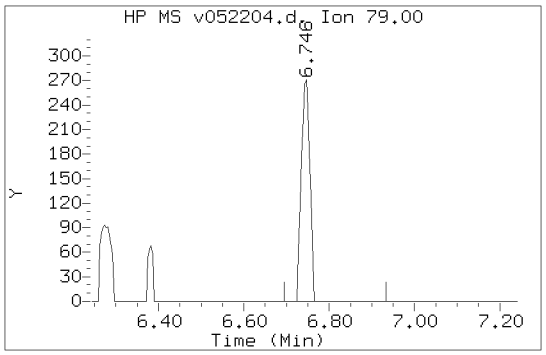
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23-May-2024
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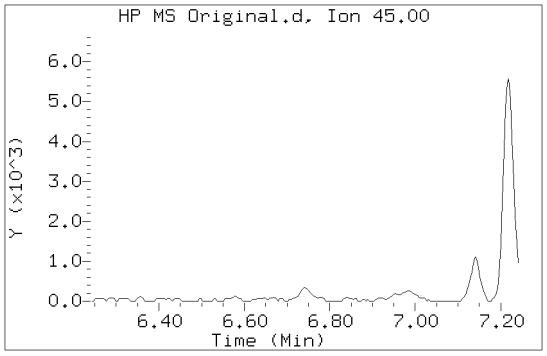
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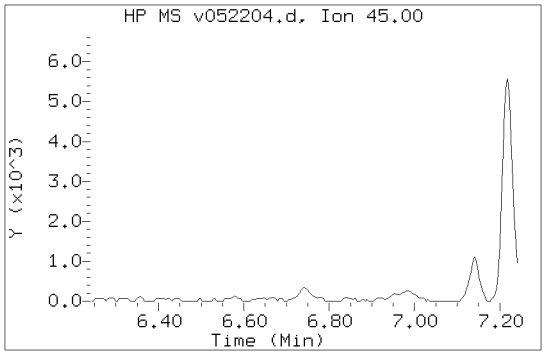
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AFTER

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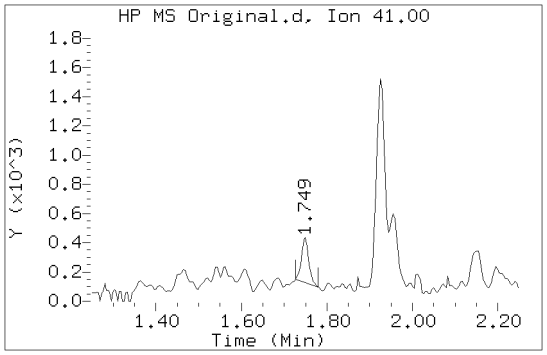


Isobutylene (115-11-7)

Reason Code:

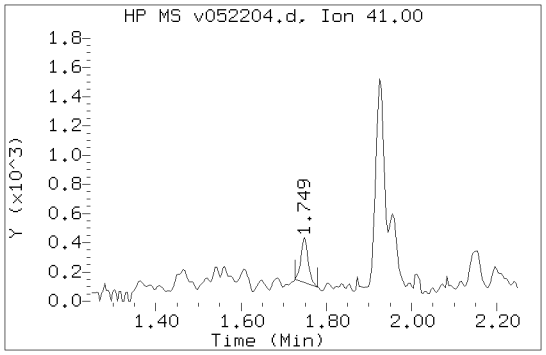
BEFORE

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23-May-2024
09:51
firat
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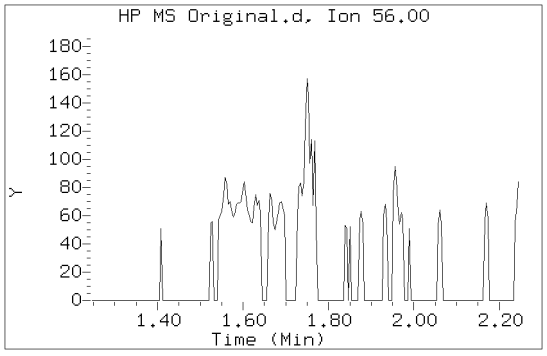
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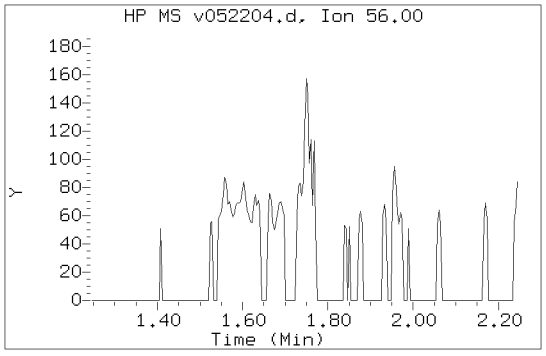
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AFTER

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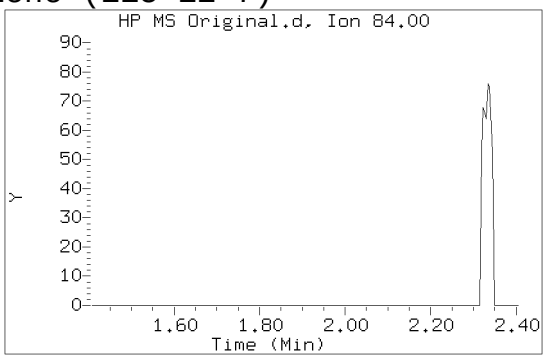
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Inj Date : 22-MAY-2024 21:05
InstruID : VOA9.i
LabSampID : VSTD001

Isobutylene (115-11-7)

Reason Code:

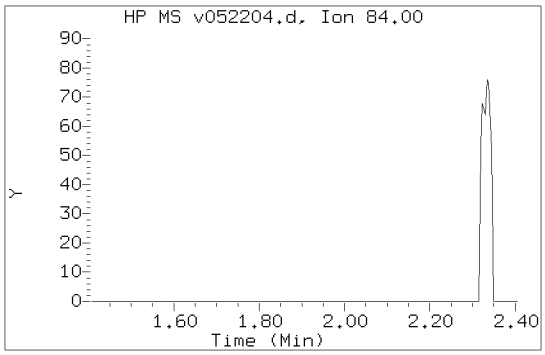
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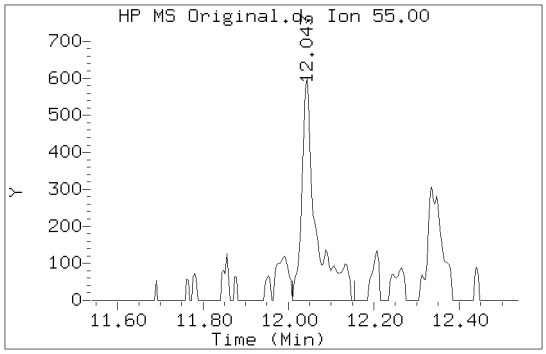


2-Ethylhexyl Acrylate (103-11-7)

Reason Code:

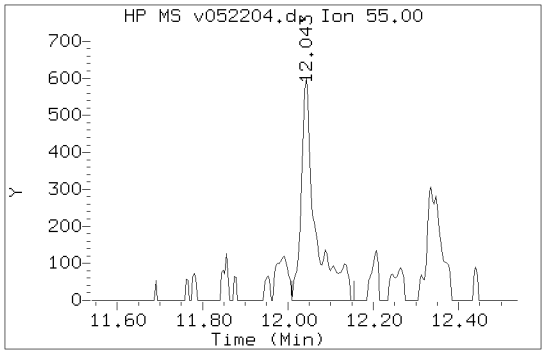
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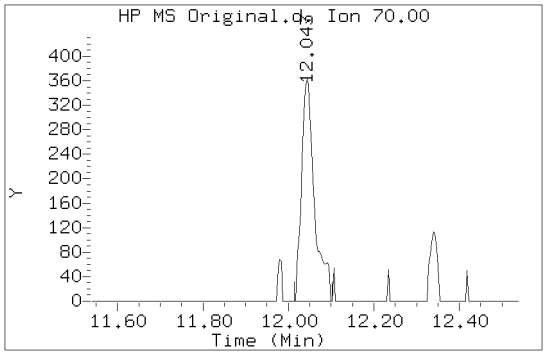
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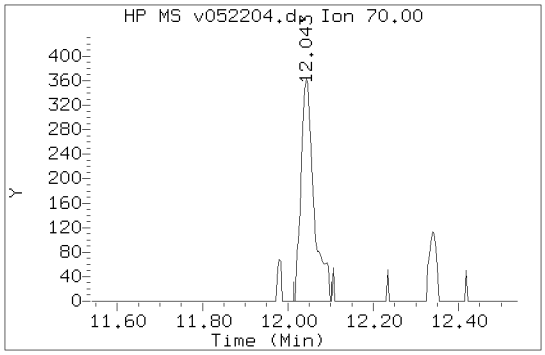
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AFTER

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Data File: \\nahstws005\Target\chem\voa9.i\U240523.b\V052205.D Page 1
Report Date: 23-May-2024 09:51

ALS Laboratory Group

Data file : \\nahstws005\Target\chem\voa9.i\U240523.b\V052205.D
Lab Smp Id: VSTD002 Client Smp ID: VSTD002
Inj Date : 22-MAY-2024 21:27
Operator : FT Inst ID: VOA9.i
Smp Info : VSTD002;VSTD002;1;4
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240523.b\8260C.m
Meth Date : 23-May-2024 09:51 VOA9.i Quant Type: ISTD
Cal Date : 22-MAY-2024 21:05 Cal File: V052204.D
Als bottle: 32 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7066

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	4.815	4.815	(1.000)	239076	50.0000	
2	Dichlorodifluoromethane	85	1.168	1.168	(0.243)	2799	2.00000	2.19(M)
3	Chloromethane	50	1.299	1.299	(0.270)	18240	2.00000	2.45
4	Propionitrile	54	4.343	4.343	(0.902)	8325	20.0000	27.55(a)
5	Vinyl Chloride	62	1.378	1.378	(0.286)	4927	2.00000	2.27
6	Bromomethane	94	1.621	1.621	(0.337)	3105	2.00000	2.62
7	Chloroethane	64	1.704	1.704	(0.354)	3661	2.00000	2.44
8	Trichlorofluoromethane	101	1.899	1.899	(0.394)	5428	2.00000	2.19
9	Acrolein	56	2.270	2.270	(0.471)	725	4.00000	5.82(aM)
10	Acetone	43	2.409	2.409	(0.500)	4226	4.00000	4.89
11	1,1-Dichloroethene	96	2.334	2.334	(0.485)	3639	2.00000	2.41
12	Isobutyl Alcohol	43	5.288	5.288	(1.098)	14294	40.0000	49.54(a)
13	Acetonitrile	39	2.671	2.671	(0.555)	4770	20.0000	24.15(a)
14	Allyl Chloride	41	2.675	2.675	(0.555)	12724	2.00000	2.50(a)
15	Iodomethane	142	2.469	2.469	(0.513)	1618	4.00000	3.60(T)
16	Acrylonitrile	53	3.068	3.068	(0.637)	4082	4.00000	5.39
17	Methylene Chloride	84	2.795	2.795	(0.580)	7451	2.00000	2.51
18	Methyl tert-butyl ether	73	3.080	3.080	(0.640)	12924	2.00000	2.69
19	Carbon Disulfide	76	2.521	2.521	(0.524)	20828	4.00000	4.57
20	trans-1,2-Dichloroethene	96	3.061	3.061	(0.636)	4221	2.00000	2.44

21 Vinyl Acetate	43	4.343	4.343 (0.902)	5865	4.00000	4.96(M)
22 1,1-Dichloroethane	63	3.514	3.514 (0.730)	8759	2.00000	2.55

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
23	Chloroprene	53	3.612	3.612	(0.750)	6360	2.00000	2.41(aM)
24	2-Butanone	43	4.272	4.272	(0.887)	5940	4.00000	5.33
25	Methacrylonitrile	41	4.497	4.497	(0.934)	3544	2.00000	2.81(aM)
26	2,2-Dichloropropane	77	4.182	4.182	(0.868)	4983	2.00000	2.36
27	cis-1,2-Dichloroethene	96	4.197	4.197	(0.872)	5181	2.00000	2.50
28	Chloroform	83	4.575	4.575	(0.950)	8888	2.00000	2.58
29	Bromochloromethane	128	4.470	4.470	(0.928)	2688	2.00000	2.63
$ 30	Dibromofluoromethane	113	4.748	4.748	(0.986)	4978	2.00000	2.86
31	1,1,1-Trichloroethane	97	4.744	4.744	(0.985)	5333	2.00000	2.21
32	1,1-Dichloropropene	75	4.920	4.920	(0.887)	5942	2.00000	2.37
33	1,2-Dichloroethane	62	5.175	5.175	(0.932)	7453	2.00000	2.68
34	Carbon Tetrachloride	117	4.913	4.913	(0.885)	4159	2.00000	2.04
$ 35	1,2-Dichloroethane-d4	65	5.096	5.096	(1.058)	6849	2.00000	3.14
* 36	1,4-Difluorobenzene	114	5.550	5.550	(1.000)	354246	50.0000	
37	Benzene	78	5.138	5.138	(0.926)	20260	2.00000	2.50
38	Trichloroethene	130	5.786	5.786	(1.043)	4638	2.00000	2.36(a)
39	Bromodichloromethane	83	6.277	6.277	(1.131)	5068	2.00000	2.34(aM)
40	Methyl Methacrylate	41	5.831	5.831	(1.211)	2174	2.00000	2.90(a)
41	2-Chloroethylvinyl ether	63	6.577	6.577	(1.185)	2608	4.00000	3.78
42	1,2-Dichloropropane	63	6.007	6.007	(1.082)	5897	2.00000	2.62(a)
43	2-Nitropropane	43	6.506	6.506	(1.351)	954	2.00000	2.32(aM)
44	Dibromomethane	93	6.120	6.120	(1.103)	3121	2.00000	2.55(a)
45	4-Methyl-2-Pentanone	43	6.854	6.854	(0.838)	10418	4.00000	4.75(a)
46	cis-1,3-Dichloropropene	75	6.690	6.690	(1.205)	5352	2.00000	2.15(a)
* 47	Chlorobenzene-d5	117	8.182	8.182	(1.000)	317294	50.0000	
$ 48	Toluene-d8	98	6.922	6.922	(0.846)	17737	2.00000	2.75(a)
49	Ethyl Methacrylate	69	7.289	7.289	(1.313)	6218	2.00000	2.37(aM)
50	Toluene	91	6.978	6.978	(0.853)	19857	2.00000	2.47(a)
51	trans-1,3-Dichloropropene	75	7.196	7.196	(1.296)	3854	2.00000	1.98(a)
52	2-Hexanone	43	7.593	7.593	(0.928)	6749	4.00000	4.60(a)
53	1,1,2-Trichloroethane	83	7.353	7.353	(0.899)	4383	2.00000	2.76(a)
54	1,3-Dichloropropane	76	7.495	7.495	(0.916)	8637	2.00000	2.59(a)
55	Dibromochloromethane	129	7.690	7.690	(0.940)	3234	2.00000	2.07(a)
56	Tetrachloroethene	164	7.454	7.454	(0.911)	3632	2.00000	2.40(a)
57	1,2-Dibromoethane	107	7.784	7.784	(0.951)	4379	2.00000	2.58(a)
58	1-Chlorohexane	55	8.189	8.189	(1.475)	6784	2.00000	2.39(a)
59	Chlorobenzene	112	8.208	8.208	(1.003)	13797	2.00000	2.52(a)
60	1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	3979	2.00000	2.40(a)
61	Ethylbenzene	106	8.305	8.305	(1.015)	6101	2.00000	2.37(a)
62	m,p-Xylenes	106	8.406	8.406	(1.027)	15303	4.00000	4.84(a)
63	o-Xylene	106	8.744	8.744	(1.069)	7250	2.00000	2.34(a)
64	Styrene	104	8.763	8.763	(1.071)	11838	2.00000	2.25(a)
66	Bromoform	173	8.916	8.916	(1.090)	1952	2.00000	2.01(Ta)
67	Isopropylbenzene	105	9.059	9.059	(1.107)	17414	2.00000	2.27(a)
68	1,1,2,2-Tetrachloroethane	83	9.325	9.325	(0.917)	6823	2.00000	2.63(a)
$ 69	4-Bromofluorobenzene	95	9.194	9.194	(1.124)	7375	2.00000	2.99(a)
* 70	1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	168721	50.0000	
71	1,2,3-Trichloropropane	75	9.359	9.359	(0.920)	5886	2.00000	2.27(a)
72	trans-1,4-Dichloro-2-butene	53	9.377	9.377	(1.146)	1369	2.00000	2.41(a)
73	n-Propylbenzene	91	9.411	9.411	(0.926)	19974	2.00000	2.29(a)
74	Bromobenzene	156	9.317	9.317	(0.916)	5788	2.00000	2.60(a)
75	1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	13231	2.00000	2.20(a)

76	2-Chlorotoluene	91	9.482	9.482 (0.933)	14272	2.00000	2.52(a)
77	4-Chlorotoluene	91	9.576	9.576 (0.942)	16356	2.00000	2.54(a)

Data File: \\nahstws005\Target\chem\voa9.i\U240523.b\V052205.D Page 3
Report Date: 23-May-2024 09:51

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
78	tert-Butylbenzene	119	9.835	9.835	(0.967)	11953	2.00000	2.26(a)
79	1,2,4-Trimethylbenzene	105	9.876	9.876	(0.971)	13720	2.00000	2.22(a)
81	sec-Butylbenzene	105	10.018	10.018	(0.985)	15557	2.00000	2.21(a)
82	p-Isopropyltoluene	119	10.142	10.142	(0.997)	13299	2.00000	2.17(a)
83	1,3-Dichlorobenzene	146	10.112	10.112	(0.994)	10178	2.00000	2.55(aM)
84	1,4-Dichlorobenzene	146	10.187	10.187	(1.002)	11601	2.00000	2.60(a)
86	Benzyl Chloride	91	10.311	10.311	(1.260)	7550	2.00000	2.17(a)
87	n-Butylbenzene	91	10.491	10.491	(1.032)	12812	2.00000	2.16(a)
88	1,2-Dichlorobenzene	146	10.502	10.502	(1.033)	10650	2.00000	2.63(a)
89	1,2-Dibromo-3-Chloropropane	155	11.169	11.169	(1.098)	632	2.00000	2.21(a)
90	1,2,4-Trichlorobenzene	180	11.859	11.859	(1.166)	5761	2.00000	2.27(a)
91	Hexachlorobutadiene	225	11.994	11.994	(1.180)	2569	2.00000	2.30(a)
92	Naphthalene	128	12.069	12.069	(1.187)	11869	2.00000	2.20(a)
93	1,2,3-Trichlorobenzene	180	12.268	12.268	(1.206)	5635	2.00000	2.38(a)
146	Methyl acetate	43	2.716	2.716	(0.564)	6584	2.00000	2.76(a)
138	Freon TF	101	2.334	2.334	(0.485)	5517	2.00000	2.14(a)
141	Cyclohexane	56	4.785	4.785	(0.994)	9869	2.00000	2.27(aM)
142	Tetrahydrofuran	42	4.545	4.545	(0.944)	2093	4.00000	4.62(a)
147	Methylcyclohexane	55	5.947	5.947	(1.072)	9046	2.00000	2.12(a)
135	1,4-Dioxane	88	6.168	6.168	(1.281)	1210	40.0000	44.69
132	n-Butanol	56	5.839	5.839	(1.213)	1923	40.0000	42.70(a)
136	n-Hexane	57	3.342	3.342	(0.694)	3911	2.00000	2.09(a)
139	Diethyl ether	59	2.146	2.146	(0.446)	3327	2.00000	2.51(a)
148	Tert-butyl alcohol	59	2.971	2.971	(0.617)	7842	40.0000	55.15
149	Isopropyl alcohol	45	2.566	2.566	(0.533)	6005	40.0000	52.39(T)
152	Amyl alcohol	42	7.402	7.402	(0.905)	2287	40.0000	41.09
156	Diisopropyl ether	45	3.619	3.619	(0.752)	16134	2.00000	2.57(Ta)
162	Butyl acrylate	55	8.733	8.733	(1.067)	7948	2.00000	2.36(a)
187	n-Amyl acetate	43	8.931	8.931	(1.092)	9669	2.00000	2.69(aM)
164	Dicyclopentadiene	66	10.198	10.198	(1.003)	19537	2.00000	2.23(a)
166	1,2,3-Trimethylbenzene	105	10.232	10.232	(1.006)	12904	2.00000	2.25(a)
167	Ethanol	45	2.086	2.086	(0.433)	1328	40.0000	56.77
172	tert-Butyl formate	59	5.239	5.239	(1.088)	6942	4.00000	5.04(M)
173	3,3-Dimethyl-1-butanol	57	7.780	7.780	(0.951)	9713	40.0000	46.31(M)
174	tert-Amyl methyl ether	73	5.284	5.284	(1.097)	12431	2.00000	2.35(a)
175	tert-Butyl ethyl ether	59	4.050	4.050	(0.841)	12975	2.00000	2.44(a)
176	tert-Amyl alcohol	59	5.239	5.239	(1.088)	6942	40.0000	50.66
151	4-Methyl-2-pentanol	45	7.214	7.214	(1.300)	23380	40.0000	44.13
140	1,3-Butadiene	54	1.404	1.404	(0.292)	2110	2.00000	2.23(a)
182	Epichlorohydrin	57	6.633	6.633	(1.195)	1366	8.00000	10.59(M)
M 94	1,2-Dichloroethylene (total)	96				9402	4.00000	(a)
130	Ethyl Acetate	43	4.343	4.343	(0.902)	6005	2.00000	2.57(Ta)
131	Methyl Acrylate	55	4.377	4.377	(0.909)	6155	2.00000	2.68(a)
189	n-Butyl acetate	43	7.705	7.705	(0.942)	7821	2.00000	2.39(a)
134	Cyclohexanone	55	9.152	9.152	(0.900)	4862	40.0000	49.84(a)
185	Isoprene	39	2.154	2.154	(0.447)	854	2.00000	2.10(a)
188	Isopropyl acetate	43	5.288	5.288	(0.953)	14294	2.00000	2.40(a)
150	Allyl alcohol	57	3.342	3.342	(0.694)	3911	40.0000	41.83
194	Acetaldehyde	44	1.464	1.464	(0.304)	3129	8.00000	9.70(M)
195	Methyl Amyl Ketone	43	8.868	8.868	(1.084)	9513	2.00000	2.39(a)
200	Dimethyl Disulfide	94	6.742	6.742	(0.824)	1761	2.00000	1.75(a)
202	Isobutylene	41	1.753	1.753	(0.364)	1170	2.00000	2.14(aM)

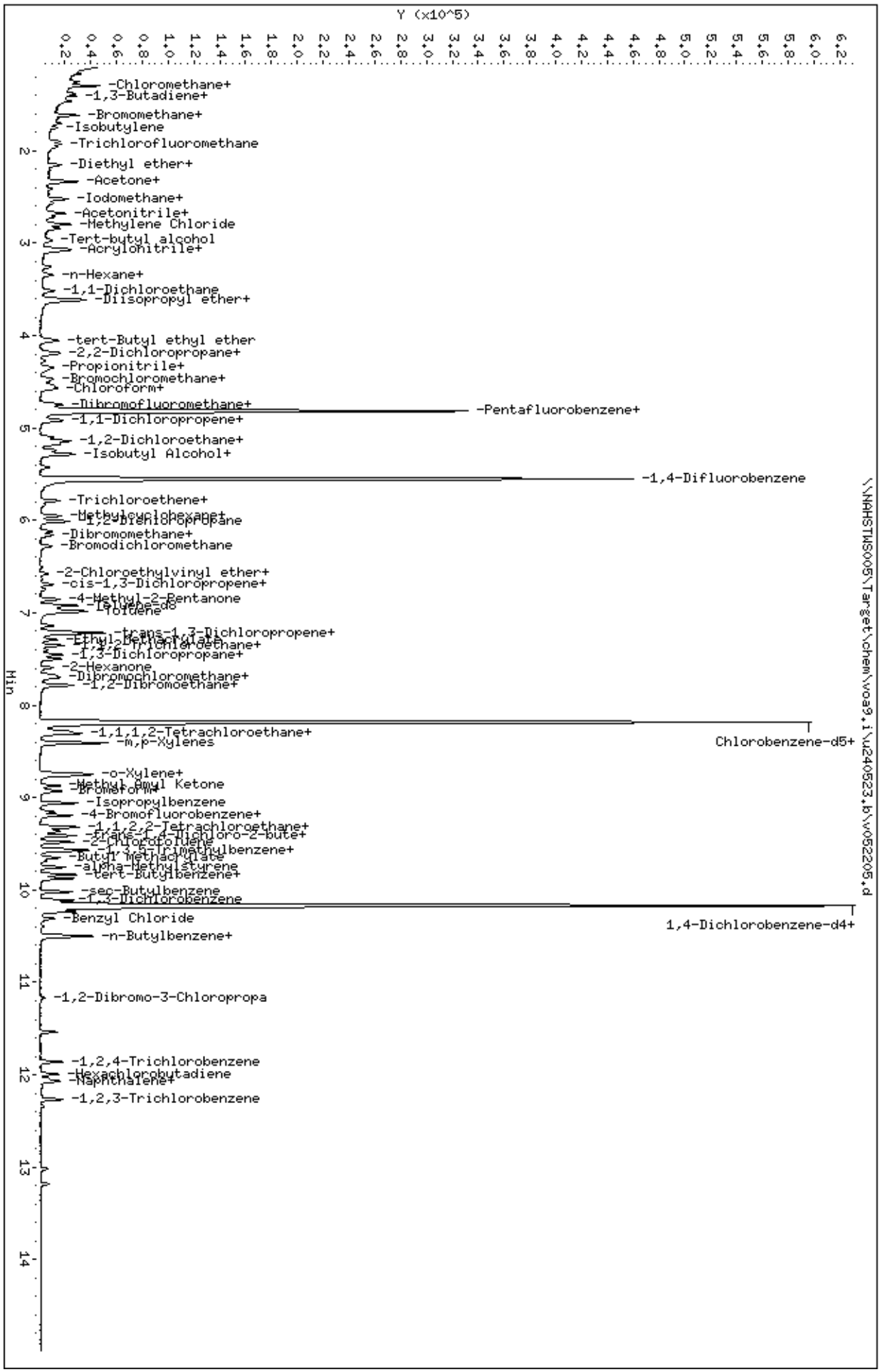
133 Ethyl Acrylate	55	5.947	5.947 (1.235)	9098	2.00000	2.15(aM)
163 Butyl methacrylate	41	9.647	9.647 (0.949)	4741	2.00000	2.06(a)

Data File: \\nahstws005\Target\chem\voa9.i\U240523.b\V052205.D Page 4
Report Date: 23-May-2024 09:51

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
159 Propylene oxide	43	2.202	2.202	(0.457)	836	4.00000	4.62(a)
203 2-Ethylhexyl Acrylate	55	12.043	12.043	(1.184)	3034	2.00000	1.85(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\voa9.i\u240523.b\v052205.d
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Client ID: VSTD002
Sample Info: VSTD002;VSTD0021;4
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Column phase: DB624

Instrument: VOA9.i
Operator: FT
Column diameter: 0.18

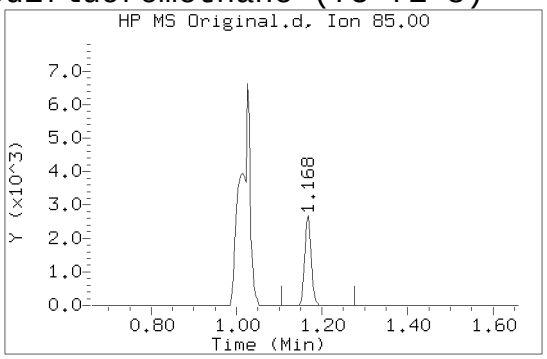
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Inj Date : 22-MAY-2024 21:27
InstruID : VOA9.i
LabSampID : VSTD002

Dichlorodifluoromethane (75-71-8)

Reason Code:

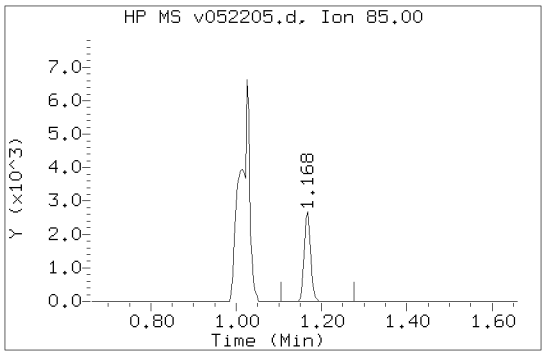
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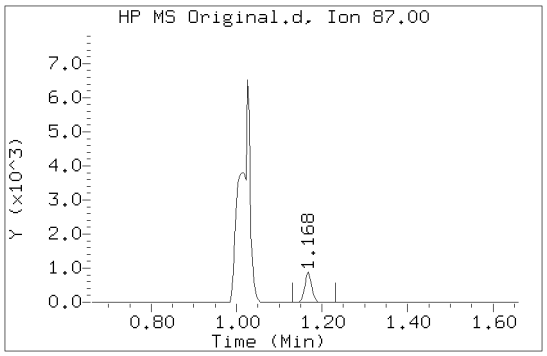
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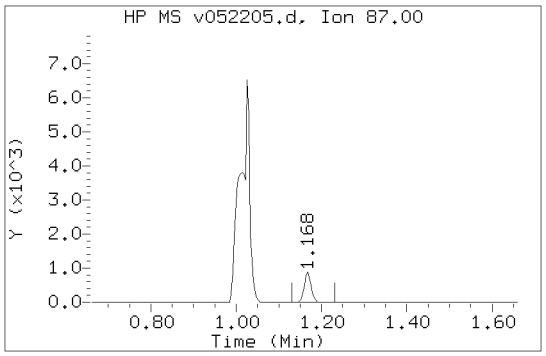
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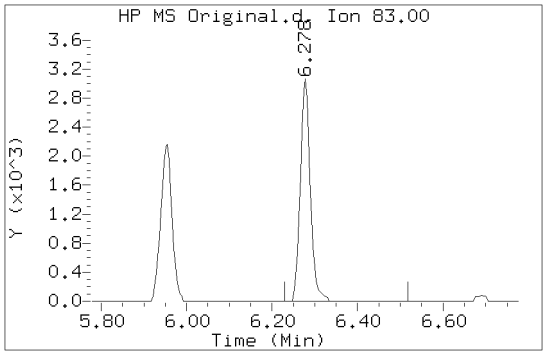


Bromodichloromethane (75-27-4)

Reason Code:

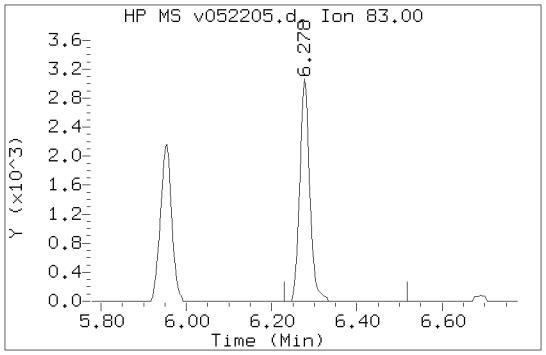
BEFORE

MASS
83
AREA
5068
HEIGHT
3064
23-May-2024
09:51
firat
tastan



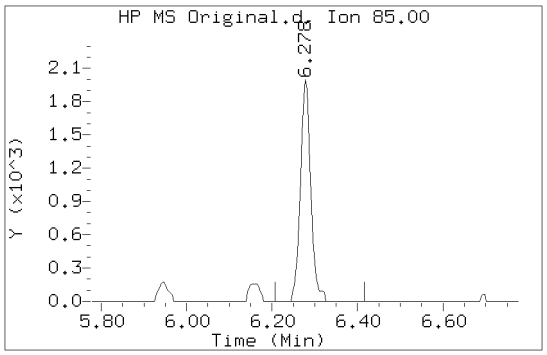
AFTER

MASS
83
AREA
5068
HEIGHT
3064
23-May-2024
09:51
firat
tastan



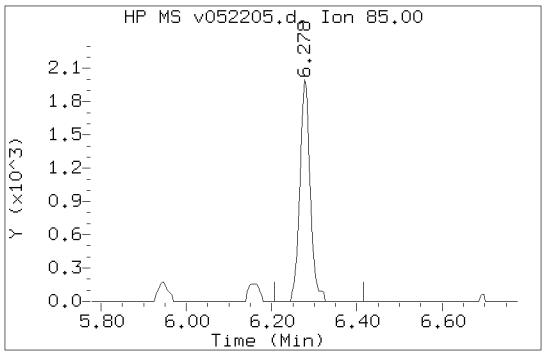
BEFORE

MASS
85
AREA
3433
HEIGHT
1997
23-May-2024
09:51
firat
tastan



AFTER

MASS
85
AREA
3433
HEIGHT
1997
23-May-2024
09:51
firat
tastan



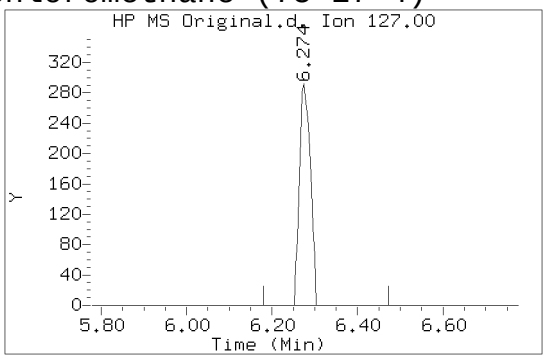
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Inj Date : 22-MAY-2024 21:27
InstruID : VOA9.i
LabSampID : VSTD002

Bromodichloromethane (75-27-4)

Reason Code:

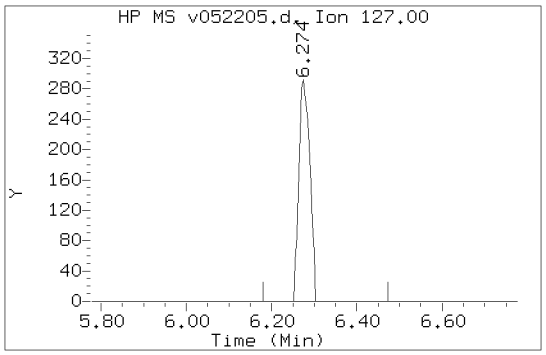
BEFORE

MASS
127
AREA
532
HEIGHT
292
23-May-2024
09:51
firat
tastan



AFTER

MASS
127
AREA
532
HEIGHT
292
23-May-2024
09:51
firat
tastan

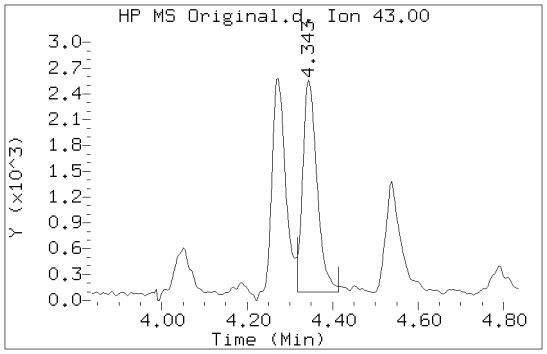


Vinyl Acetate (108-05-4)

Reason Code:

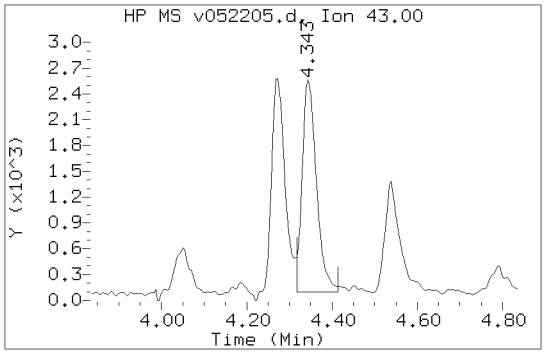
BEFORE

MASS
43
AREA
5865
HEIGHT
2469
23-May-2024
09:51
firat
tastan



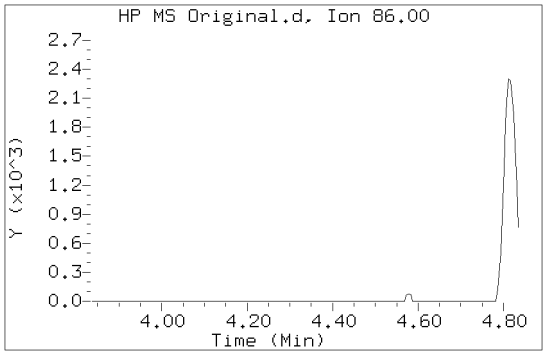
AFTER

MASS
43
AREA
5865
HEIGHT
2469
23-May-2024
09:51
firat
tastan



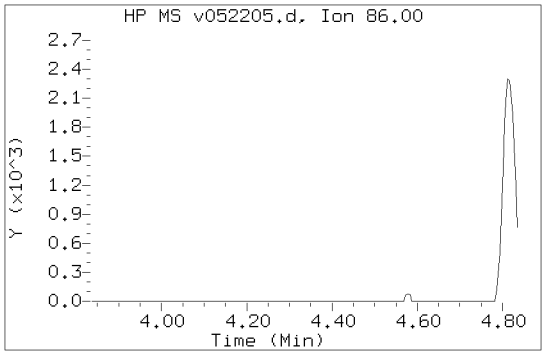
BEFORE

MASS
86
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



AFTER

MASS
86
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan

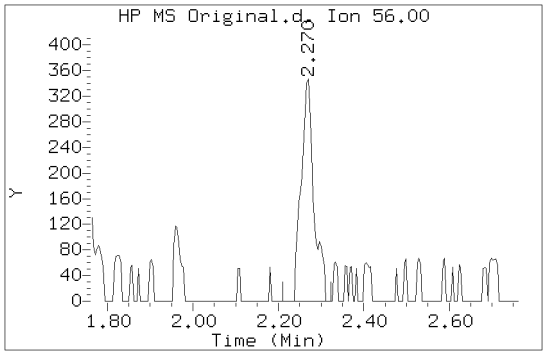


Acrolein (107-02-8)

Reason Code:

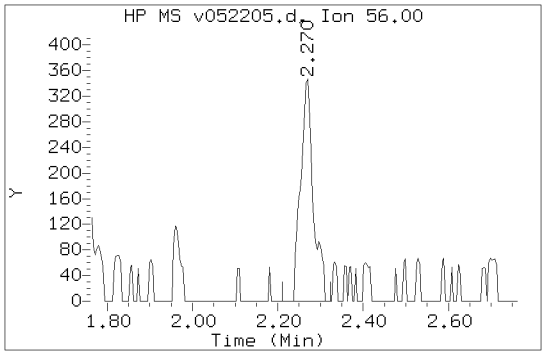
BEFORE

MASS
56
AREA
725
HEIGHT
347
23-May-2024
09:51
firat
tastan



AFTER

MASS
56
AREA
725
HEIGHT
347
23-May-2024
09:51
firat
tastan



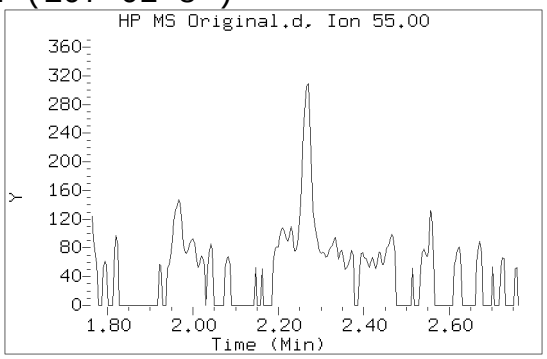
Data File : \\nahstws005\target\chem\voa9.i\u240523.b\v052205.d
Inj Date : 22-MAY-2024 21:27
InstruID : VOA9.i
LabSampID : VSTD002

Acrolein (107-02-8)

Reason Code:

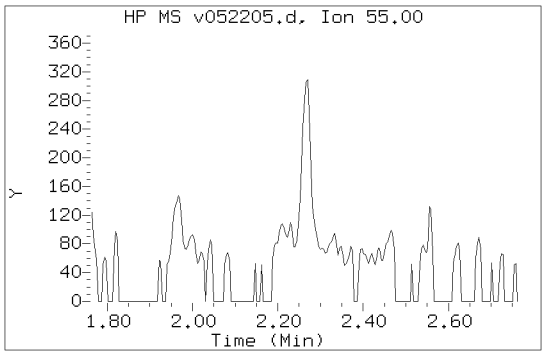
BEFORE

MASS
55
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



AFTER

MASS
55
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan

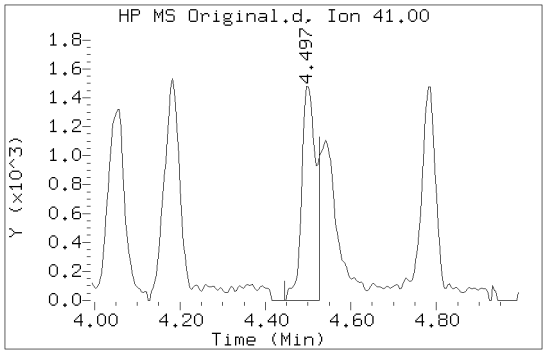


Methacrylonitrile (126-98-7)

Reason Code:

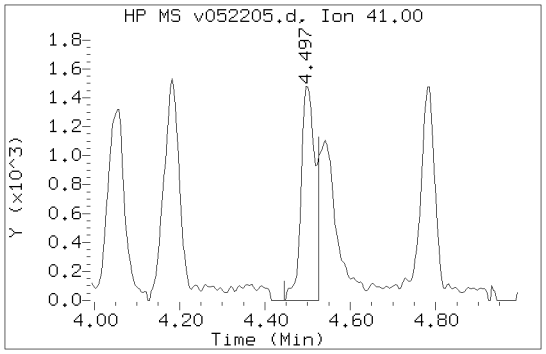
BEFORE

MASS
41
AREA
3544
HEIGHT
1480
23-May-2024
09:51
firat
tastan



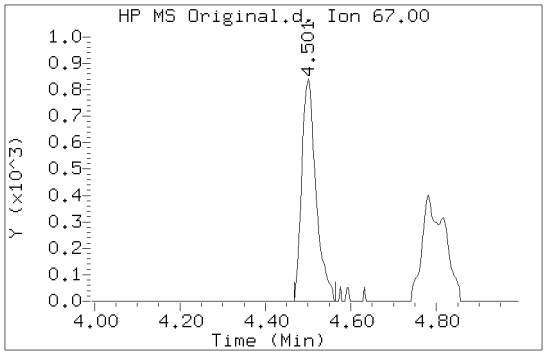
AFTER

MASS
41
AREA
3544
HEIGHT
1480
23-May-2024
09:51
firat
tastan



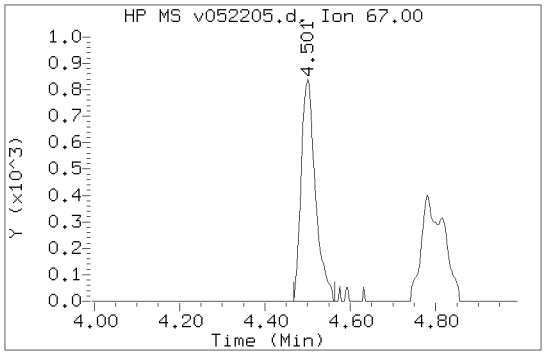
BEFORE

MASS
67
AREA
1973
HEIGHT
841
23-May-2024
09:51
firat
tastan



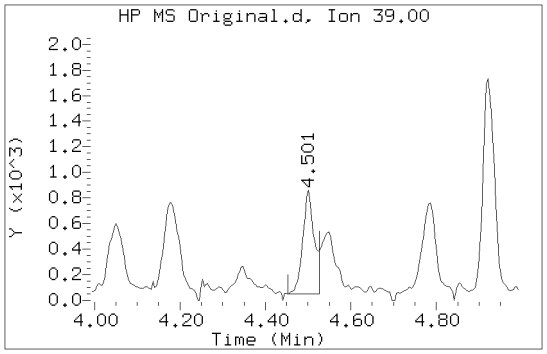
AFTER

MASS
67
AREA
1973
HEIGHT
841
23-May-2024
09:51
firat
tastan



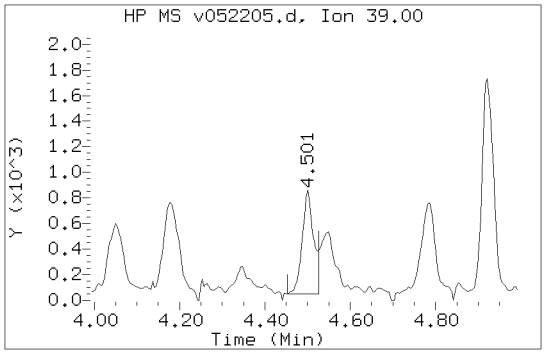
BEFORE

MASS
39
AREA
1551
HEIGHT
812
23-May-2024
09:51
firat
tastan



AFTER

MASS
39
AREA
1551
HEIGHT
812
23-May-2024
09:51
firat
tastan



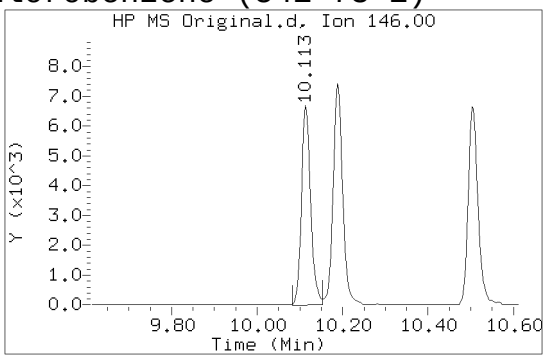
Data File : \\nahstws005\target\chem\voa9.i\u240523.b\v052205.d
Inj Date : 22-MAY-2024 21:27
InstruID : VOA9.i
LabSampID : VSTD002

1,3-Dichlorobenzene (541-73-1)

Reason Code:

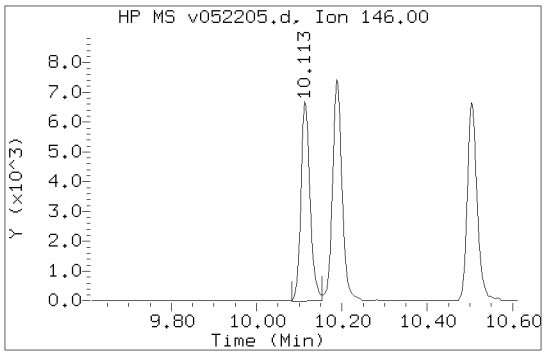
BEFORE

MASS
146
AREA
10178
HEIGHT
6687
23-May-2024
09:51
firat
tastan



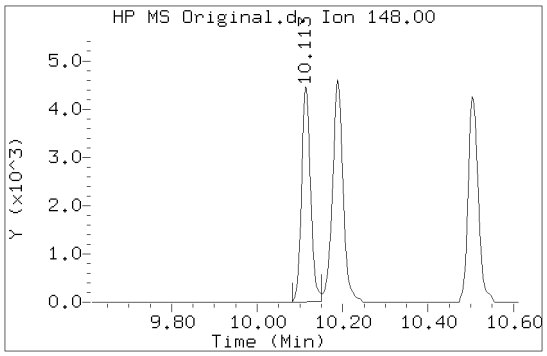
AFTER

MASS
146
AREA
10178
HEIGHT
6687
23-May-2024
09:51
firat
tastan



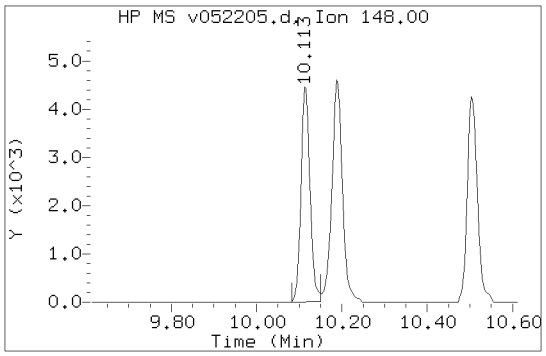
BEFORE

MASS
148
AREA
6645
HEIGHT
4450
23-May-2024
09:51
firat
tastan



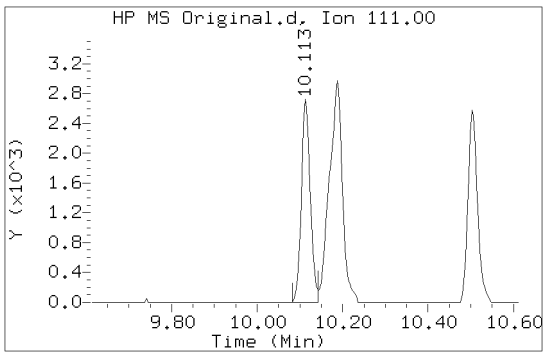
AFTER

MASS
148
AREA
6645
HEIGHT
4450
23-May-2024
09:51
firat
tastan



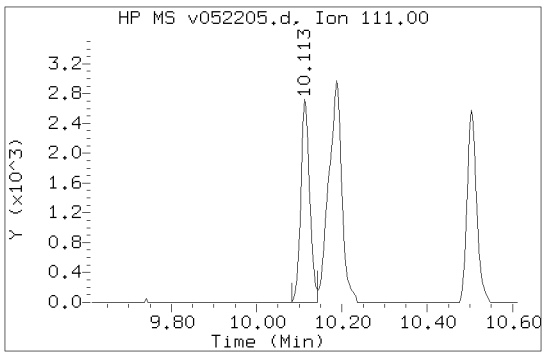
BEFORE

MASS
111
AREA
4008
HEIGHT
2720
23-May-2024
09:51
firat
tastan



AFTER

MASS
111
AREA
4008
HEIGHT
2720
23-May-2024
09:51
firat
tastan

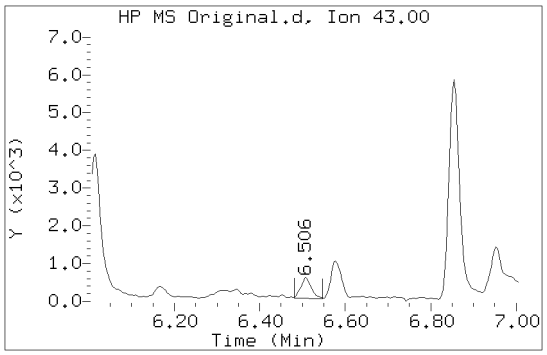


2-Nitropropane (79-46-9)

Reason Code:

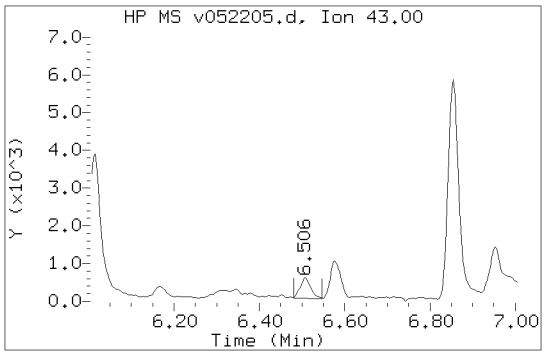
BEFORE

MASS
43
AREA
954
HEIGHT
546
23-May-2024
09:51
firat
tastan



AFTER

MASS
43
AREA
954
HEIGHT
546
23-May-2024
09:51
firat
tastan



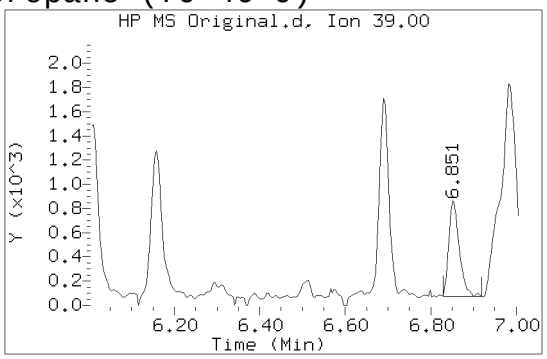
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Inj Date : 22-MAY-2024 21:27
InstruID : VOA9.i
LabSampID : VSTD002

2-Nitropropane (79-46-9)

Reason Code:

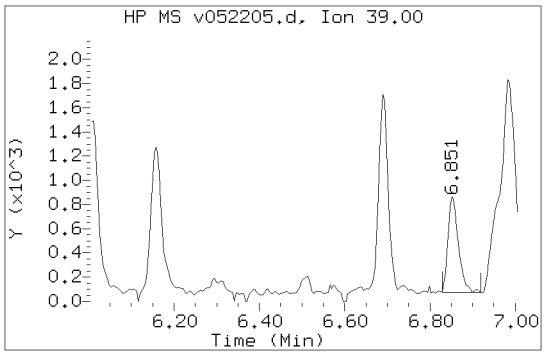
BEFORE

MASS
39
AREA
1361
HEIGHT
789
23-May-2024
09:51
firat
tastan



AFTER

MASS
39
AREA
1361
HEIGHT
789
23-May-2024
09:51
firat
tastan

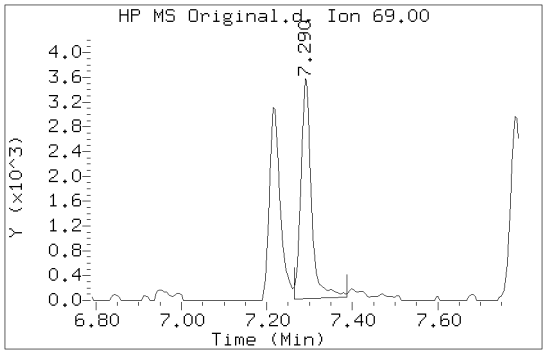


Ethyl Methacrylate (97-63-2)

Reason Code:

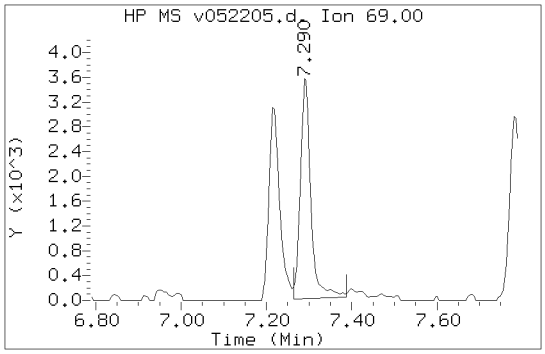
BEFORE

MASS
69
AREA
6218
HEIGHT
3553
23-May-2024
09:51
firat
tastan



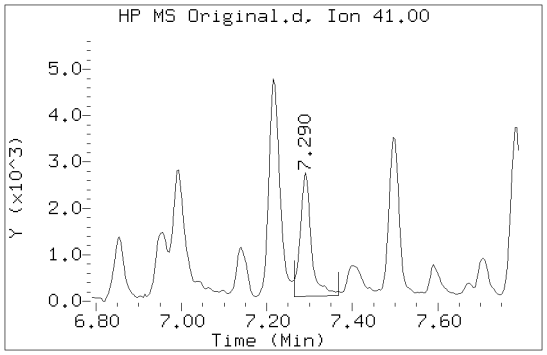
AFTER

MASS
69
AREA
6218
HEIGHT
3553
23-May-2024
09:51
firat
tastan



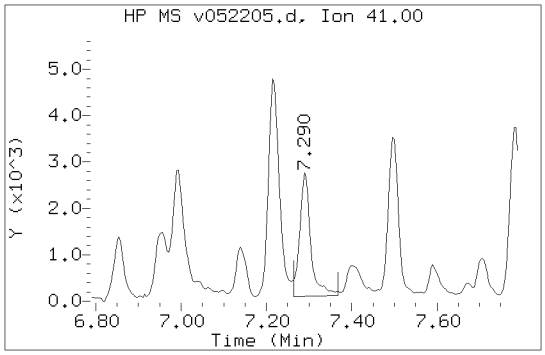
BEFORE

MASS
41
AREA
4964
HEIGHT
2670
23-May-2024
09:51
firat
tastan



AFTER

MASS
41
AREA
4964
HEIGHT
2670
23-May-2024
09:51
firat
tastan

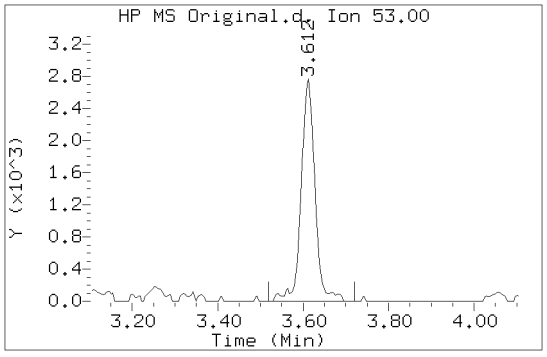


Chloroprene (126-99-8)

Reason Code:

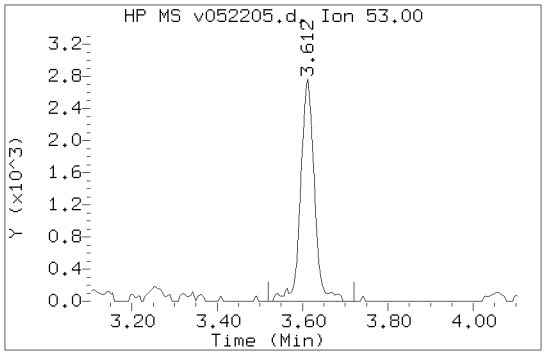
BEFORE

MASS
53
AREA
6360
HEIGHT
2769
23-May-2024
09:51
firat
tastan



AFTER

MASS
53
AREA
6360
HEIGHT
2769
23-May-2024
09:51
firat
tastan



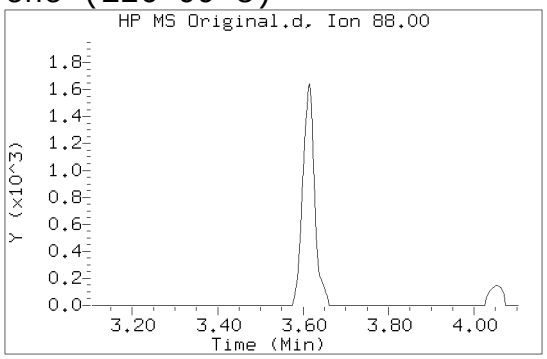
Data File : \\nahstws005\target\chem\voa9.i\u240523.b\v052205.d
Inj Date : 22-MAY-2024 21:27
InstruID : VOA9.i
LabSampID : VSTD002

Chloroprene (126-99-8)

Reason Code:

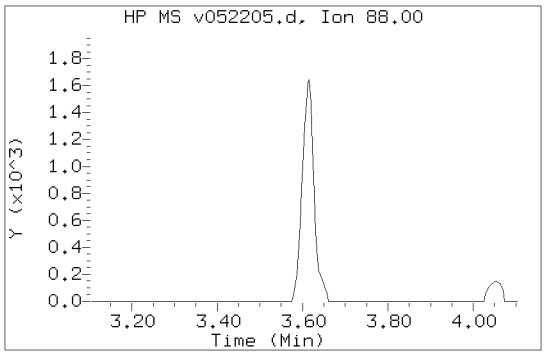
BEFORE

MASS
88
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



AFTER

MASS
88
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan

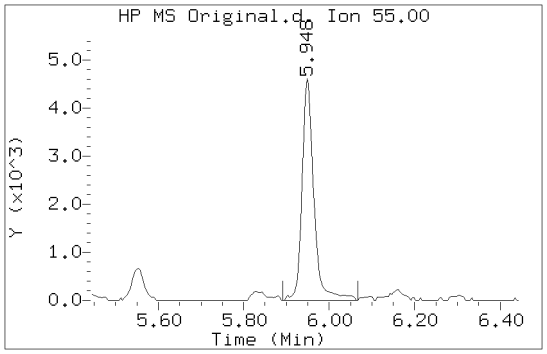


Ethyl Acrylate (140-88-5)

Reason Code:

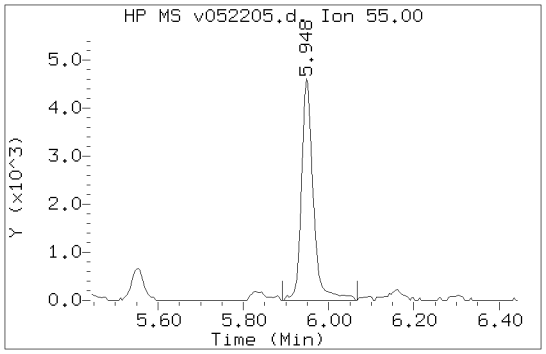
BEFORE

MASS
55
AREA
9098
HEIGHT
4617
23-May-2024
09:51
firat
tastan



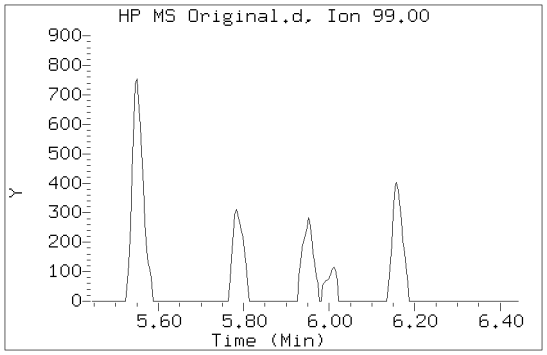
AFTER

MASS
55
AREA
9098
HEIGHT
4617
23-May-2024
09:51
firat
tastan



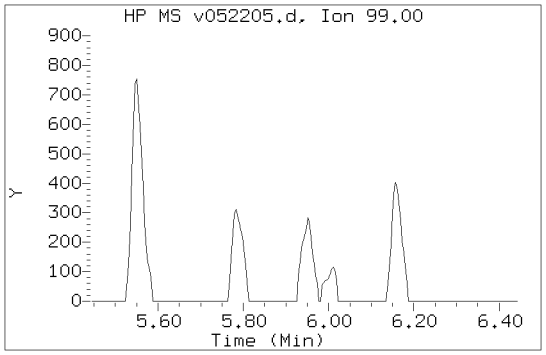
BEFORE

MASS
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23-May-2024
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AFTER

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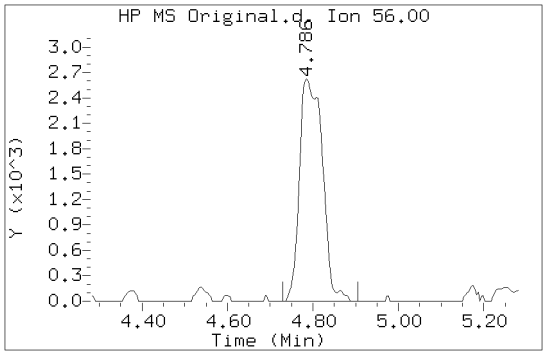


Cyclohexane (110-82-7)

Reason Code:

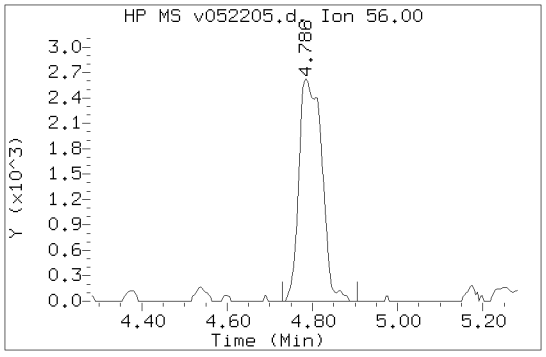
BEFORE

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HEIGHT
2624
23-May-2024
09:51
firat
tastan



AFTER

MASS
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AREA
9869
HEIGHT
2624
23-May-2024
09:51
firat
tastan



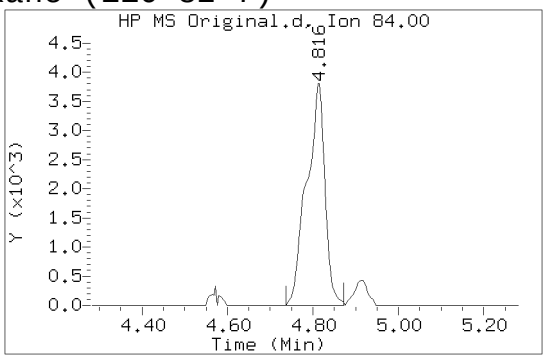
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Inj Date : 22-MAY-2024 21:27
InstruID : VOA9.i
LabSampID : VSTD002

Cyclohexane (110-82-7)

Reason Code:

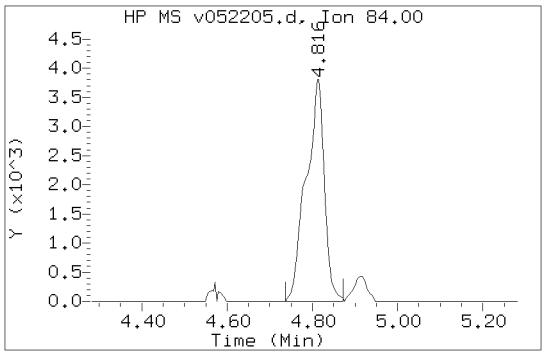
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3803
23-May-2024
09:51
firat
tastan



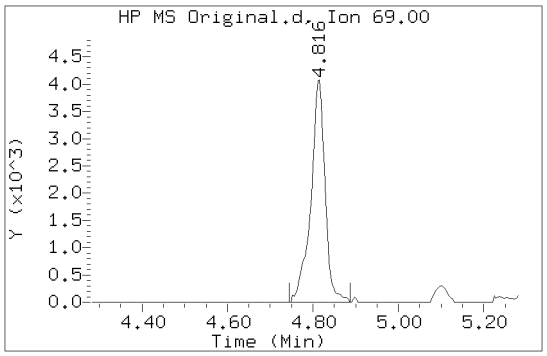
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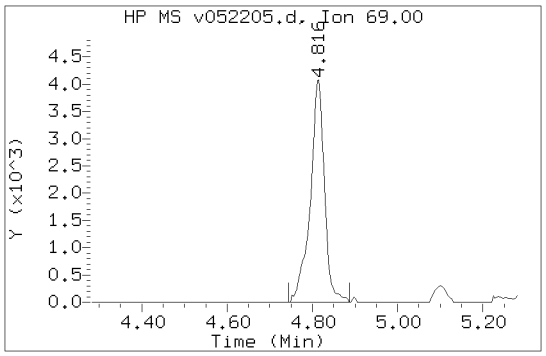
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4077
23-May-2024
09:51
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AFTER

MASS
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23-May-2024
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firat
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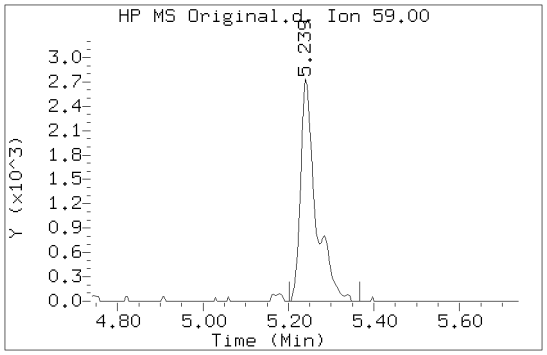


tert-Butyl formate (762-75-4)

Reason Code:

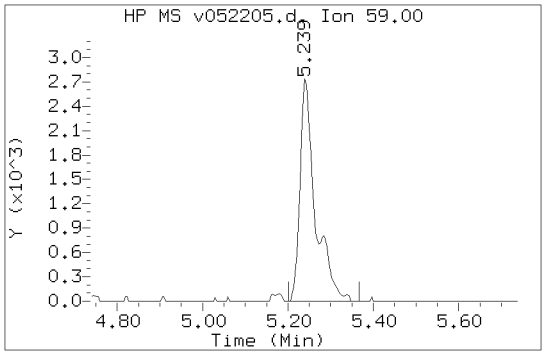
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6942
HEIGHT
2737
23-May-2024
09:51
firat
tastan



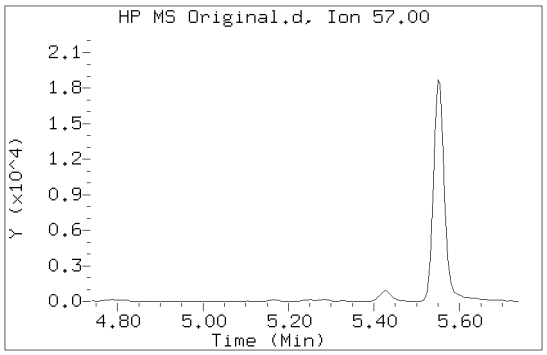
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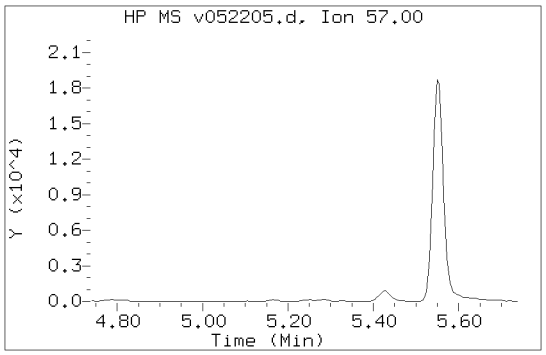
BEFORE

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23-May-2024
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AFTER

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HEIGHT
0
23-May-2024
09:51
firat
tastan



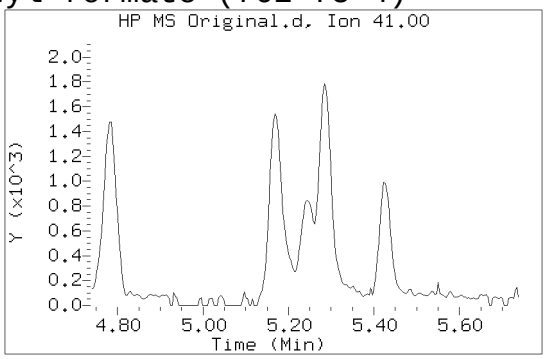
Data File : \\nahstws005\target\chem\voa9.i\u240523.b\v052205.d
Inj Date : 22-MAY-2024 21:27
InstruID : VOA9.i
LabSampID : VSTD002

tert-Butyl formate (762-75-4)

Reason Code:

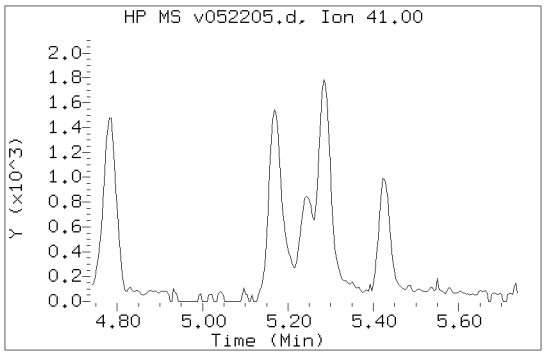
BEFORE

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HEIGHT
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23-May-2024
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firat
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AFTER

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HEIGHT
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23-May-2024
09:51
firat
tastan

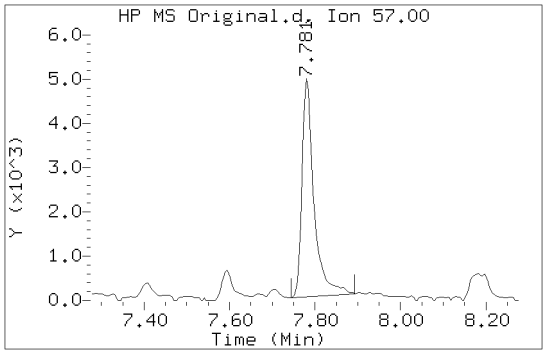


3,3-Dimethyl-1-butanol (624-95-3)

Reason Code:

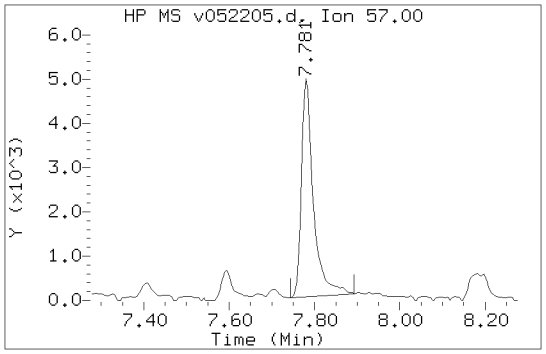
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4929
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firat
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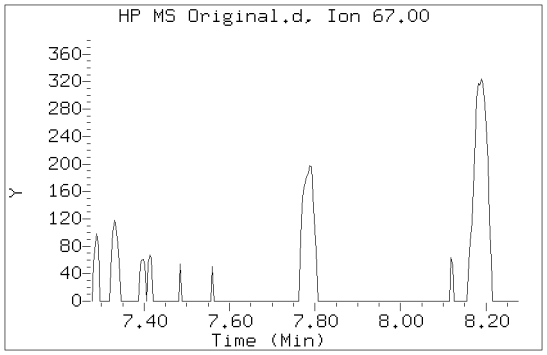
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HEIGHT
4929
23-May-2024
09:51
firat
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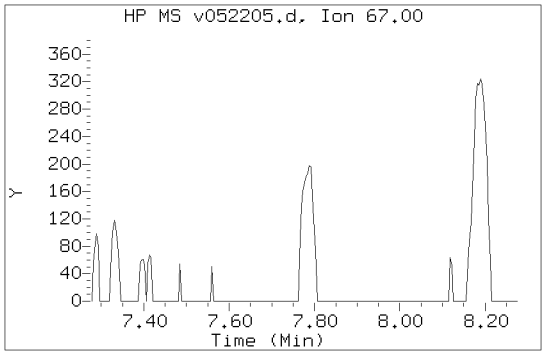
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23-May-2024
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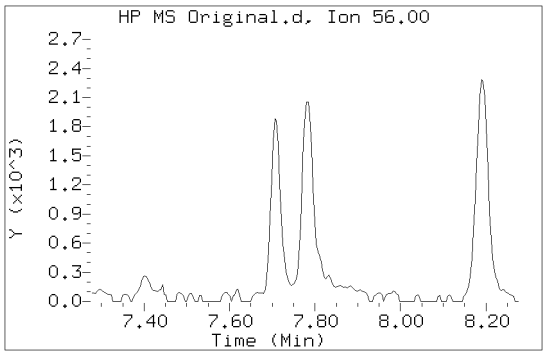
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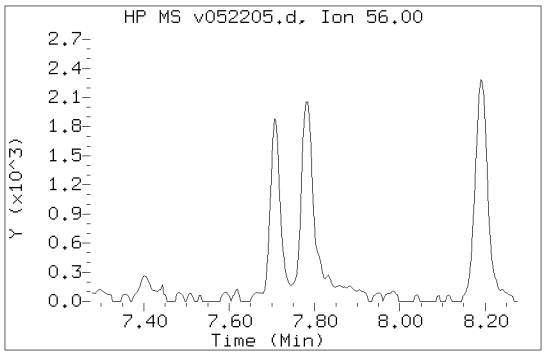
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23-May-2024
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AFTER

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HEIGHT
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23-May-2024
09:51
firat
tastan



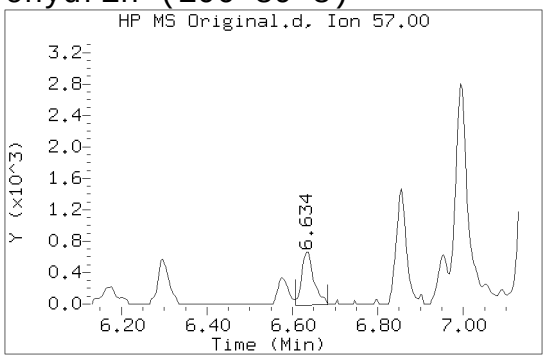
Data File : \\nahstws005\target\chem\voa9.i\u240523.b\v052205.d
Inj Date : 22-MAY-2024 21:27
InstruID : VOA9.i
LabSampID : VSTD002

Epichlorohydrin (106-89-8)

Reason Code:

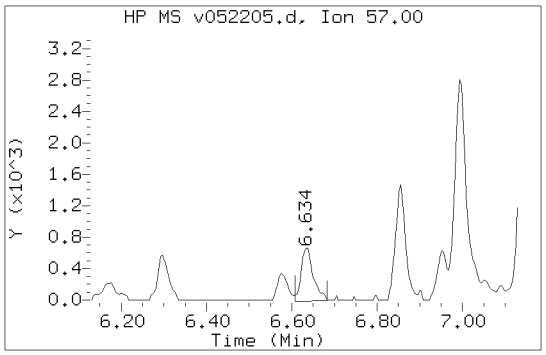
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677
23-May-2024
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firat
tastan



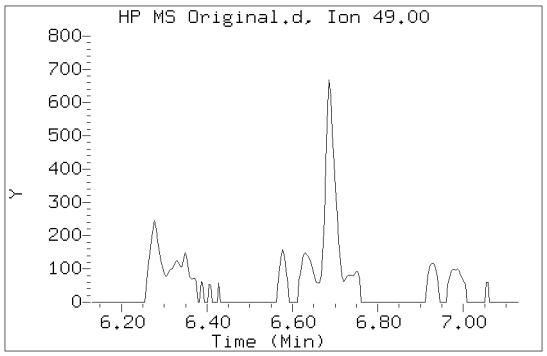
AFTER

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23-May-2024
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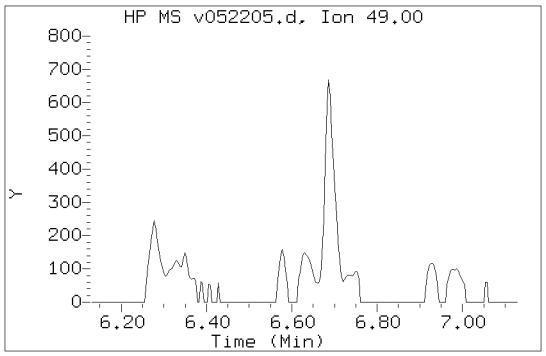
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AFTER

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23-May-2024
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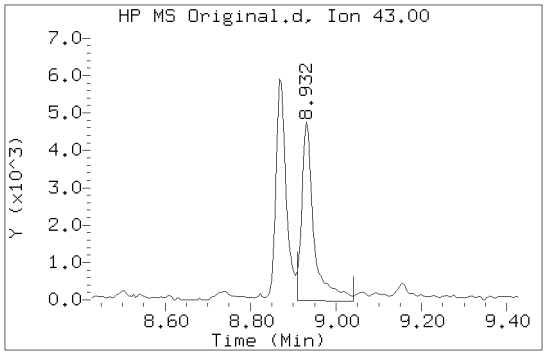


n-Amyl acetate (628-63-7)

Reason Code:

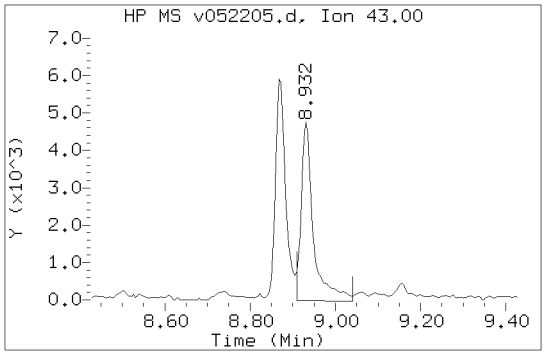
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23-May-2024
09:51
firat
tastan



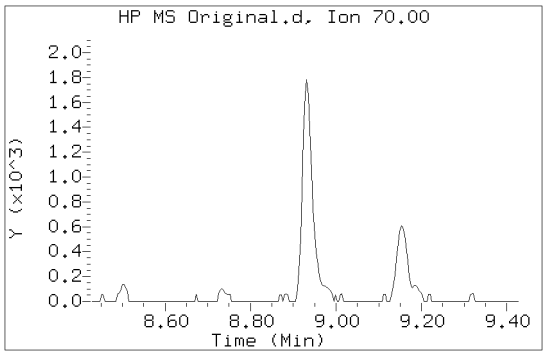
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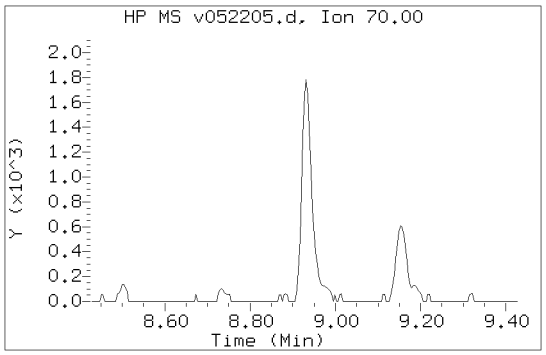
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AFTER

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09:51
firat
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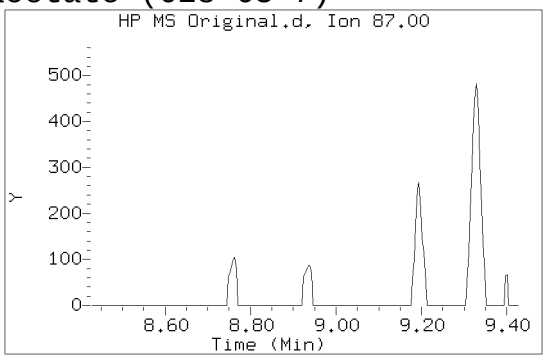
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Inj Date : 22-MAY-2024 21:27
InstruID : VOA9.i
LabSampID : VSTD002

n-Amyl acetate (628-63-7)

Reason Code:

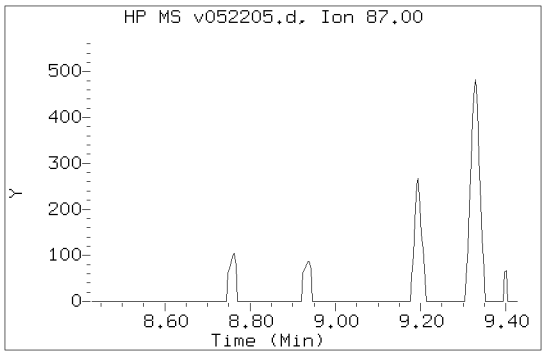
BEFORE

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23-May-2024
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AFTER

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tastan

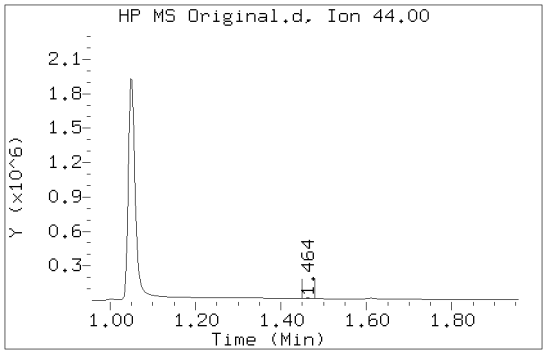


Acetaldehyde (75-07-0)

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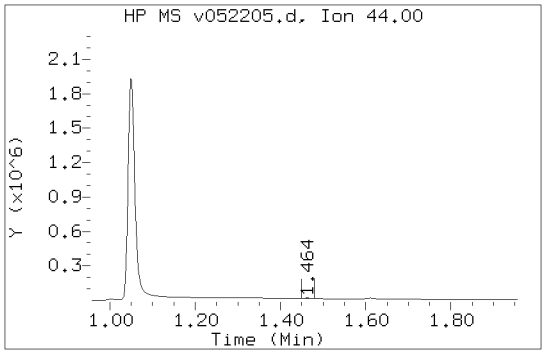
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09:51
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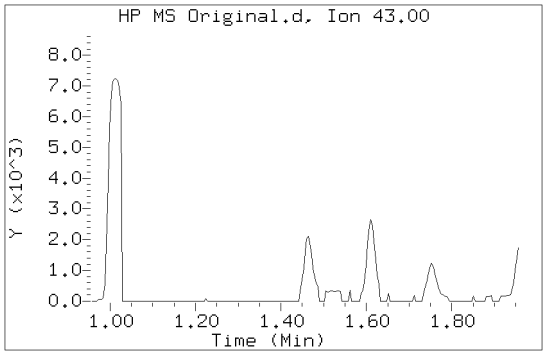
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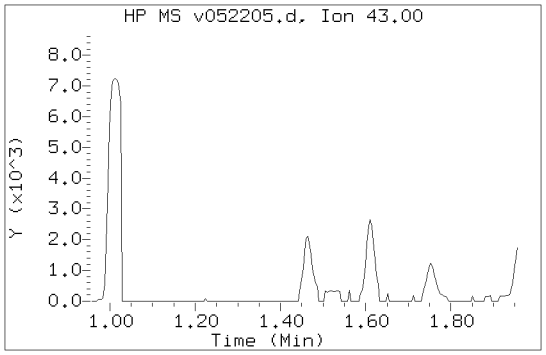
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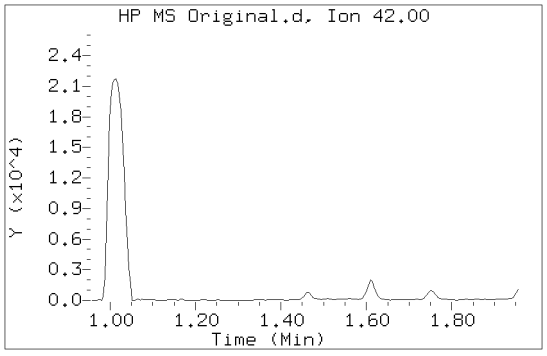
AFTER

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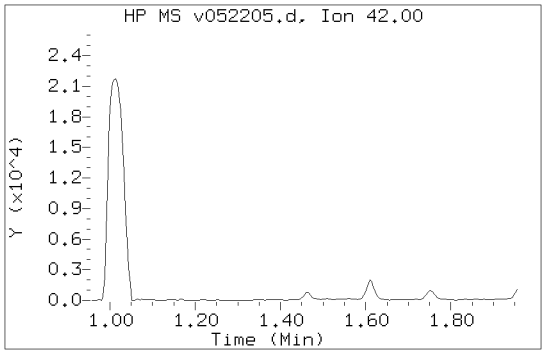
BEFORE

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AFTER

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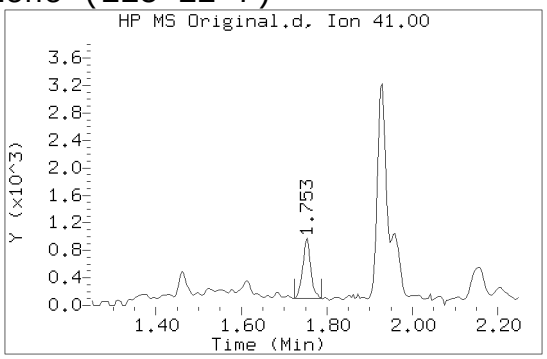
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Inj Date : 22-MAY-2024 21:27
InstruID : VOA9.i
LabSampID : VSTD002

Isobutylene (115-11-7)

Reason Code:

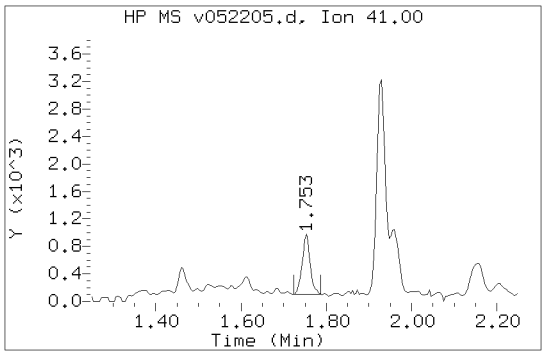
BEFORE

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882
23-May-2024
09:51
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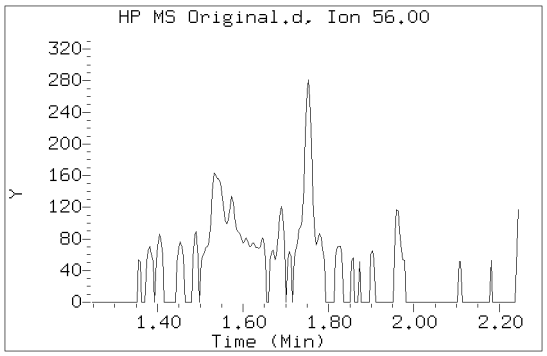
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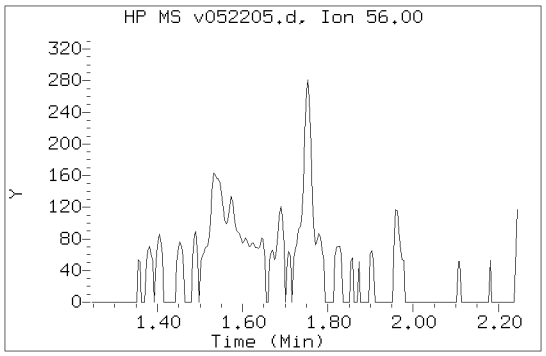
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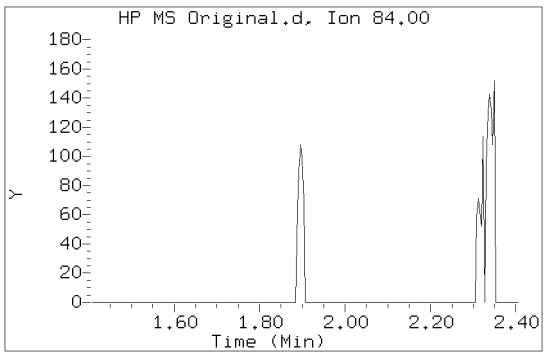
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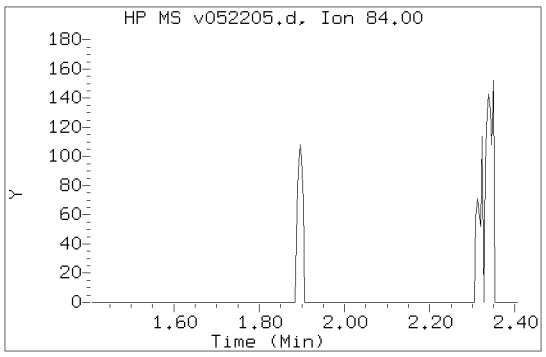
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09:51
firat
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AFTER

MASS
84
AREA
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HEIGHT
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23-May-2024
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Data File: \\nahstws005\Target\chem\voa9.i\U240523.b\V052206.D Page 1
Report Date: 23-May-2024 09:51

ALS Laboratory Group

Data file : \\nahstws005\Target\chem\voa9.i\U240523.b\V052206.D
Lab Smp Id: VSTD005 Client Smp ID: VSTD005
Inj Date : 22-MAY-2024 21:48
Operator : FT Inst ID: VOA9.i
Smp Info : VSTD005;VSTD005;1;5
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240523.b\8260C.m
Meth Date : 23-May-2024 09:51 VOA9.i Quant Type: ISTD
Cal Date : 22-MAY-2024 21:27 Cal File: V052205.D
Als bottle: 33 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7066

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	4.811	4.811	(1.000)	245120	50.0000	
2	Dichlorodifluoromethane	85	1.160	1.160	(0.241)	6317	5.00000	4.83(M)
3	Chloromethane	50	1.291	1.291	(0.268)	27986	5.00000	3.67
4	Propionitrile	54	4.339	4.339	(0.902)	13197	50.0000	42.61(a)
5	Vinyl Chloride	62	1.374	1.374	(0.286)	10412	5.00000	4.69
6	Bromomethane	94	1.614	1.614	(0.335)	4737	5.00000	3.90
7	Chloroethane	64	1.696	1.696	(0.353)	7423	5.00000	4.84
8	Trichlorofluoromethane	101	1.891	1.891	(0.393)	12316	5.00000	4.86
9	Acrolein	56	2.262	2.262	(0.470)	1345	10.0000	10.54(a)
10	Acetone	43	2.405	2.405	(0.500)	9344	10.0000	10.56
11	1,1-Dichloroethene	96	2.326	2.326	(0.483)	7259	5.00000	4.70
12	Isobutyl Alcohol	43	5.280	5.280	(1.097)	23835	100.000	80.57(a)
13	Acetonitrile	39	2.663	2.663	(0.554)	8759	50.0000	43.26(a)
14	Allyl Chloride	41	2.667	2.667	(0.554)	23141	5.00000	4.44(a)
15	Iodomethane	142	2.461	2.461	(0.512)	2870	10.0000	6.24(T)
16	Acrylonitrile	53	3.061	3.061	(0.636)	6737	10.0000	8.67
17	Methylene Chloride	84	2.791	2.791	(0.580)	12092	5.00000	3.98
18	Methyl tert-butyl ether	73	3.076	3.076	(0.639)	21791	5.00000	4.43
19	Carbon Disulfide	76	2.513	2.513	(0.522)	40927	10.0000	8.76
20	trans-1,2-Dichloroethene	96	3.053	3.053	(0.635)	8073	5.00000	4.56

21 Vinyl Acetate	43	4.339	4.339 (0.902)	9530	10.0000	7.86(M)
22 1,1-Dichloroethane	63	3.507	3.507 (0.729)	15610	5.00000	4.44

Data File: \\nahstws005\Target\chem\voa9.i\U240523.b\V052206.D Page 2
Report Date: 23-May-2024 09:51

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
23	Chloroprene	53	3.604	3.604	(0.749)	12743	5.00000	4.71(aM)
24	2-Butanone	43	4.268	4.268	(0.887)	9381	10.0000	8.21
25	Methacrylonitrile	41	4.496	4.496	(0.935)	4723	5.00000	3.66(a)
26	2,2-Dichloropropane	77	4.178	4.178	(0.868)	8821	5.00000	4.07
27	cis-1,2-Dichloroethene	96	4.193	4.193	(0.871)	9483	5.00000	4.46
28	Chloroform	83	4.568	4.568	(0.949)	15738	5.00000	4.45
29	Bromochloromethane	128	4.466	4.466	(0.928)	4773	5.00000	4.56
$ 30	Dibromofluoromethane	113	4.744	4.744	(0.986)	8395	5.00000	4.71
31	1,1,1-Trichloroethane	97	4.740	4.740	(0.985)	11202	5.00000	4.53
32	1,1-Dichloropropene	75	4.920	4.920	(0.887)	11619	5.00000	4.52
33	1,2-Dichloroethane	62	5.171	5.171	(0.932)	12613	5.00000	4.42
34	Carbon Tetrachloride	117	4.905	4.905	(0.884)	8623	5.00000	4.13
$ 35	1,2-Dichloroethane-d4	65	5.096	5.096	(1.059)	11168	5.00000	4.99
* 36	1,4-Difluorobenzene	114	5.550	5.550	(1.000)	363477	50.0000	
37	Benzene	78	5.134	5.134	(0.925)	35983	5.00000	4.33
38	Trichloroethene	130	5.786	5.786	(1.043)	9366	5.00000	4.64(a)
39	Bromodichloromethane	83	6.277	6.277	(1.131)	8991	5.00000	4.06(a)
40	Methyl Methacrylate	41	5.827	5.827	(1.211)	3018	5.00000	3.93(a)
41	2-Chloroethylvinyl ether	63	6.577	6.577	(1.185)	5466	10.0000	7.73
42	1,2-Dichloropropane	63	6.007	6.007	(1.082)	9626	5.00000	4.18(a)
43	2-Nitropropane	43	6.506	6.506	(1.352)	1500	5.00000	3.56(aM)
44	Dibromomethane	93	6.116	6.116	(1.102)	5783	5.00000	4.61(a)
45	4-Methyl-2-Pentanone	43	6.851	6.851	(0.837)	18552	10.0000	8.26
46	cis-1,3-Dichloropropene	75	6.689	6.689	(1.205)	9538	5.00000	3.73(a)
* 47	Chlorobenzene-d5	117	8.181	8.181	(1.000)	325286	50.0000	
$ 48	Toluene-d8	98	6.918	6.918	(0.846)	32218	5.00000	4.87(a)
49	Ethyl Methacrylate	69	7.289	7.289	(1.313)	11035	5.00000	4.11(aM)
50	Toluene	91	6.978	6.978	(0.853)	36895	5.00000	4.48(a)
51	trans-1,3-Dichloropropene	75	7.195	7.195	(1.296)	7333	5.00000	3.68(a)
52	2-Hexanone	43	7.593	7.593	(0.928)	12230	10.0000	8.13
53	1,1,2-Trichloroethane	83	7.353	7.353	(0.899)	7348	5.00000	4.52(a)
54	1,3-Dichloropropane	76	7.495	7.495	(0.916)	14915	5.00000	4.36(a)
55	Dibromochloromethane	129	7.690	7.690	(0.940)	5962	5.00000	3.73(a)
56	Tetrachloroethene	164	7.454	7.454	(0.911)	7207	5.00000	4.65(a)
57	1,2-Dibromoethane	107	7.784	7.784	(0.951)	7387	5.00000	4.24(a)
58	1-Chlorohexane	55	8.193	8.193	(1.476)	10145	5.00000	3.48(a)
59	Chlorobenzene	112	8.208	8.208	(1.003)	25267	5.00000	4.51(a)
60	1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	7033	5.00000	4.14(a)
61	Ethylbenzene	106	8.305	8.305	(1.015)	11835	5.00000	4.49(a)
62	m,p-Xylenes	106	8.406	8.406	(1.027)	27975	10.0000	8.64(a)
63	o-Xylene	106	8.747	8.747	(1.069)	13646	5.00000	4.30(a)
64	Styrene	104	8.762	8.762	(1.071)	23698	5.00000	4.41(a)
66	Bromoform	173	8.916	8.916	(1.090)	3641	5.00000	3.66(Ta)
67	Isopropylbenzene	105	9.059	9.059	(1.107)	34220	5.00000	4.35(a)
68	1,1,2,2-Tetrachloroethane	83	9.325	9.325	(0.917)	11307	5.00000	4.24(a)
$ 69	4-Bromofluorobenzene	95	9.194	9.194	(1.124)	12392	5.00000	4.91(a)
* 70	1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	173523	50.0000	
71	1,2,3-Trichloropropane	75	9.358	9.358	(0.920)	10722	5.00000	4.03(a)
72	trans-1,4-Dichloro-2-butene	53	9.373	9.373	(1.146)	2495	5.00000	4.29(a)
73	n-Propylbenzene	91	9.411	9.411	(0.926)	38778	5.00000	4.32(a)
74	Bromobenzene	156	9.317	9.317	(0.916)	10442	5.00000	4.57(a)
75	1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	25668	5.00000	4.15(a)

76	2-Chlorotoluene	91	9.482	9.482 (0.933)	25762	5.00000	4.43(a)
77	4-Chlorotoluene	91	9.576	9.576 (0.942)	28612	5.00000	4.32(a)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
78	tert-Butylbenzene	119	9.835	9.835	(0.967)	23621	5.00000	4.35(a)
79	1,2,4-Trimethylbenzene	105	9.876	9.876	(0.971)	25634	5.00000	4.04(a)
81	sec-Butylbenzene	105	10.018	10.018	(0.985)	31236	5.00000	4.33(a)
82	p-Isopropyltoluene	119	10.146	10.146	(0.998)	26510	5.00000	4.22(a)
83	1,3-Dichlorobenzene	146	10.112	10.112	(0.994)	17996	5.00000	4.38(aM)
84	1,4-Dichlorobenzene	146	10.187	10.187	(1.002)	19669	5.00000	4.29(a)
86	Benzyl Chloride	91	10.311	10.311	(1.260)	10330	5.00000	2.90(a)
87	n-Butylbenzene	91	10.491	10.491	(1.032)	24166	5.00000	3.96(a)
88	1,2-Dichlorobenzene	146	10.506	10.506	(1.033)	17994	5.00000	4.33(a)
89	1,2-Dibromo-3-Chloropropane	155	11.165	11.165	(1.098)	1114	5.00000	3.79(a)
90	1,2,4-Trichlorobenzene	180	11.859	11.859	(1.166)	10292	5.00000	3.95(a)
91	Hexachlorobutadiene	225	11.994	11.994	(1.180)	4784	5.00000	4.17(a)
92	Naphthalene	128	12.069	12.069	(1.187)	20220	5.00000	3.65(a)
93	1,2,3-Trichlorobenzene	180	12.267	12.267	(1.206)	9782	5.00000	4.03(a)
146	Methyl acetate	43	2.708	2.708	(0.563)	11741	5.00000	4.80(a)
138	Freon TF	101	2.330	2.330	(0.484)	13429	5.00000	5.08
141	Cyclohexane	56	4.778	4.778	(0.993)	16026	5.00000	3.60(a)
142	Tetrahydrofuran	42	4.541	4.541	(0.944)	3112	10.0000	6.70
147	Methylcyclohexane	55	5.947	5.947	(1.072)	19782	5.00000	4.53(a)
135	1,4-Dioxane	88	6.168	6.168	(1.282)	2038	100.000	73.42
132	n-Butanol	56	5.827	5.827	(1.211)	3558	100.000	77.06(a)
136	n-Hexane	57	3.334	3.334	(0.693)	8824	5.00000	4.60(a)
139	Diethyl ether	59	2.139	2.139	(0.445)	6208	5.00000	4.57(a)
148	Tert-butyl alcohol	59	2.967	2.967	(0.617)	12384	100.000	84.94
149	Isopropyl alcohol	45	2.562	2.562	(0.533)	9227	100.000	78.52(T)
152	Amyl alcohol	42	7.402	7.402	(0.905)	4202	100.000	73.64
156	Diisopropyl ether	45	3.619	3.619	(0.752)	28630	5.00000	4.45(Ta)
162	Butyl acrylate	55	8.732	8.732	(1.067)	14069	5.00000	4.08(a)
187	n-Amyl acetate	43	8.931	8.931	(1.092)	15463	5.00000	4.20(aM)
164	Dicyclopentadiene	66	10.198	10.198	(1.003)	39000	5.00000	4.34(a)
166	1,2,3-Trimethylbenzene	105	10.232	10.232	(1.006)	25410	5.00000	4.31(a)
167	Ethanol	45	2.082	2.082	(0.433)	2037	100.000	84.94
172	tert-Butyl formate	59	5.239	5.239	(1.089)	12331	10.0000	8.73(M)
173	3,3-Dimethyl-1-butanol	57	7.780	7.780	(0.951)	17497	100.000	81.38(M)
174	tert-Amyl methyl ether	73	5.284	5.284	(1.098)	24148	5.00000	4.45(a)
175	tert-Butyl ethyl ether	59	4.047	4.047	(0.841)	23682	5.00000	4.34(a)
176	tert-Amyl alcohol	59	5.239	5.239	(1.089)	11797	100.000	83.98
151	4-Methyl-2-pentanol	45	7.214	7.214	(1.300)	42496	100.000	78.18
140	1,3-Butadiene	54	1.400	1.400	(0.291)	4494	5.00000	4.64(a)
182	Epichlorohydrin	57	6.629	6.629	(1.195)	2190	20.0000	16.55(M)
M 94	1,2-Dichloroethylene (total)	96				17556	10.0000	(a)
130	Ethyl Acetate	43	4.339	4.339	(0.902)	9900	5.00000	4.13(a)
131	Methyl Acrylate	55	4.369	4.369	(0.908)	9474	5.00000	4.03(a)
189	n-Butyl acetate	43	7.705	7.705	(0.942)	13508	5.00000	4.02(a)
134	Cyclohexanone	55	9.152	9.152	(0.900)	8573	100.000	85.45(a)
185	Isoprene	39	2.154	2.154	(0.448)	2160	5.00000	5.18(M)
188	Isopropyl acetate	43	5.280	5.280	(0.951)	23835	5.00000	3.91(a)
150	Allyl alcohol	57	3.334	3.334	(0.693)	8824	100.000	92.07
194	Acetaldehyde	44	1.456	1.456	(0.303)	5839	20.0000	17.67(M)
195	Methyl Amyl Ketone	43	8.867	8.867	(1.084)	17607	5.00000	4.31(a)
200	Dimethyl Disulfide	94	6.742	6.742	(0.824)	3121	5.00000	3.03(a)
202	Isobutylene	41	1.745	1.745	(0.363)	3060	5.00000	5.46(M)

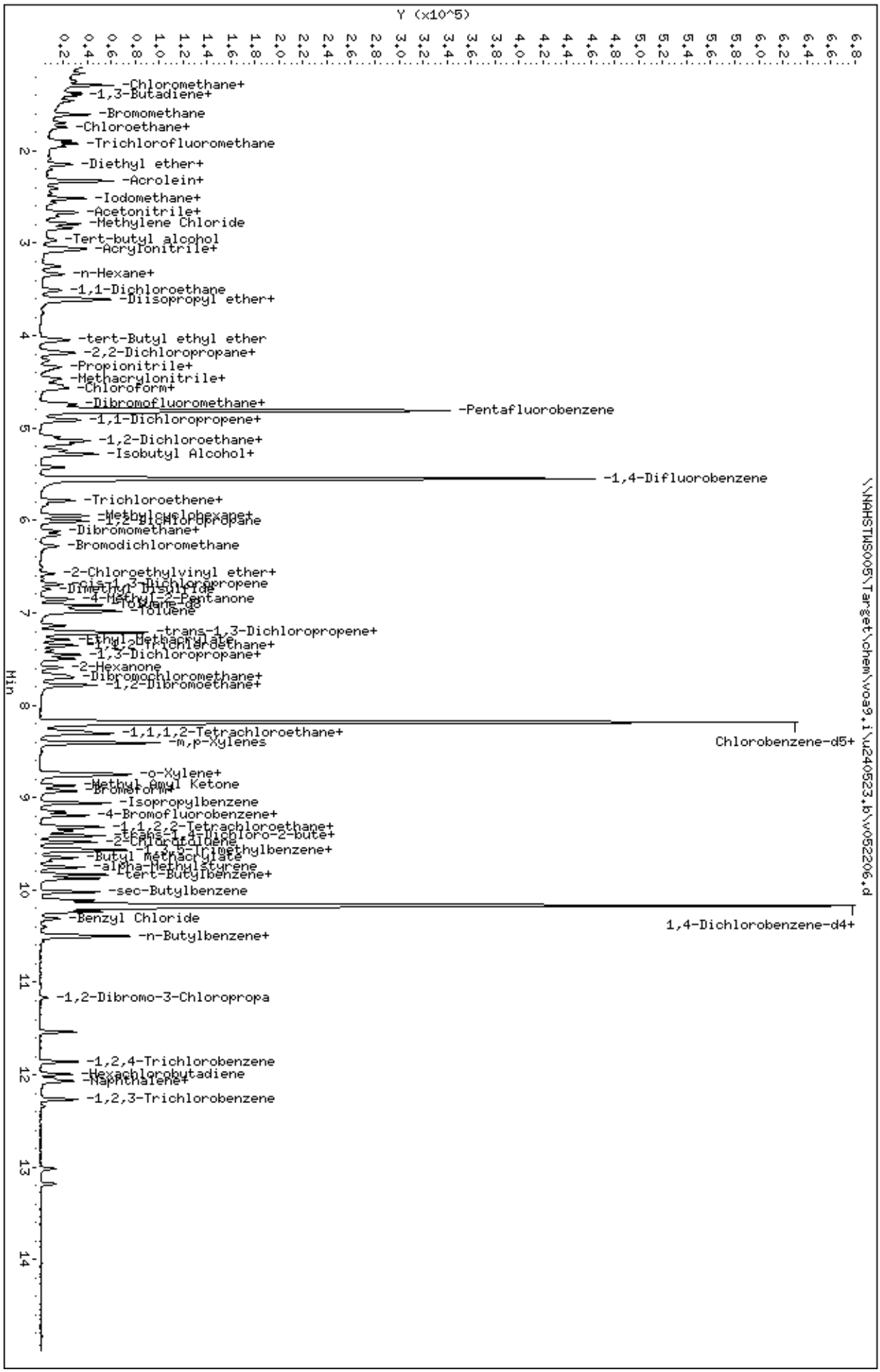
133 Ethyl Acrylate	55	5.947	5.947 (1.236)	19782	5.00000	4.57(a)
163 Butyl methacrylate	41	9.647	9.647 (0.949)	10657	5.00000	4.51(a)

Data File: \\nahstws005\Target\chem\voa9.i\U240523.b\V052206.D Page 4
Report Date: 23-May-2024 09:51

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
159 Propylene oxide	43	2.198	2.198	(0.457)	1170	10.0000	6.31
203 2-Ethylhexyl Acrylate	55	12.039	12.039	(1.184)	4851	5.00000	2.87(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\voa9.i\u240523.b\v052206.d
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Client ID: VSTD005
Sample Info: VSTD005;VSTD0051;1;5
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9.i
Operator: FT
Column diameter: 0.18

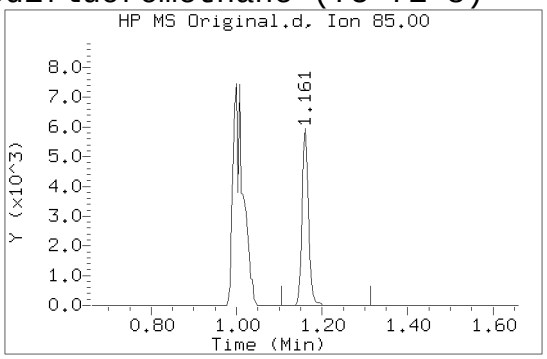
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Inj Date : 22-MAY-2024 21:48
InstruID : VOA9.i
LabSampID : VSTD005

Dichlorodifluoromethane (75-71-8)

Reason Code:

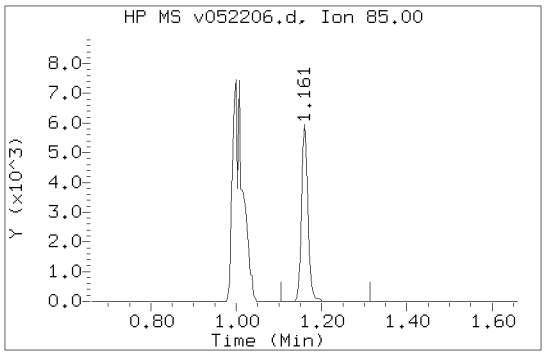
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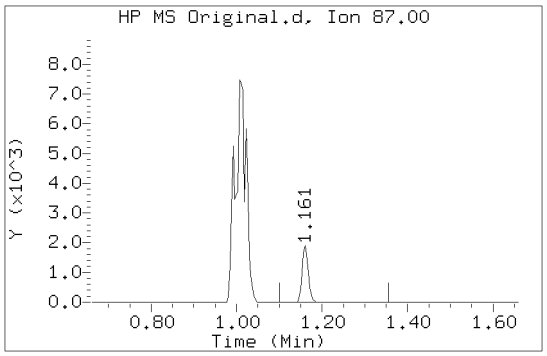
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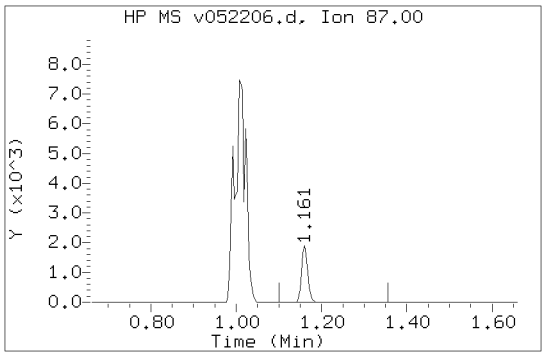
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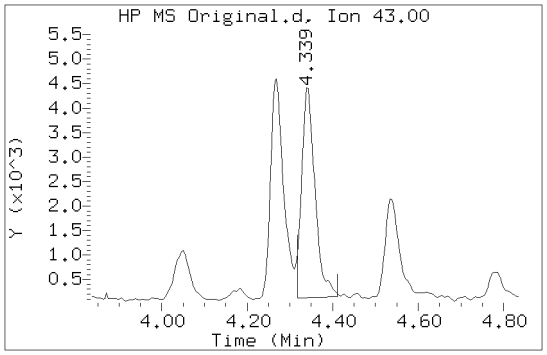


Vinyl Acetate (108-05-4)

Reason Code:

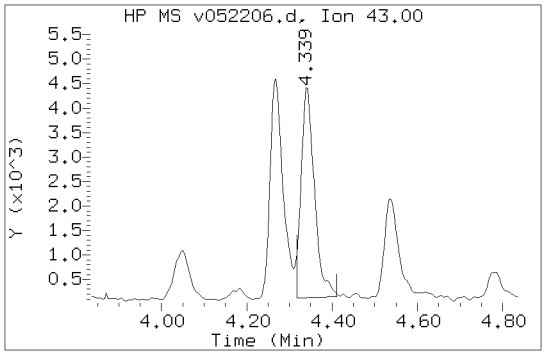
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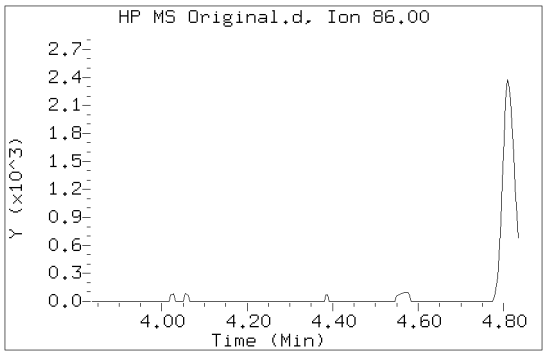
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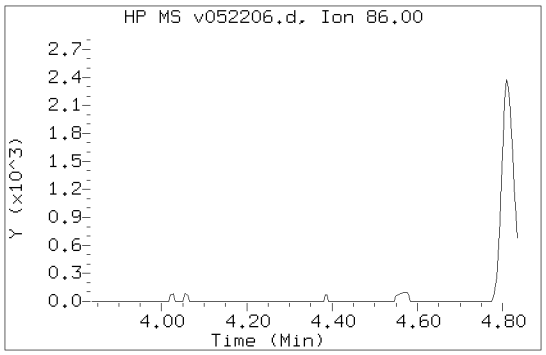
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AFTER

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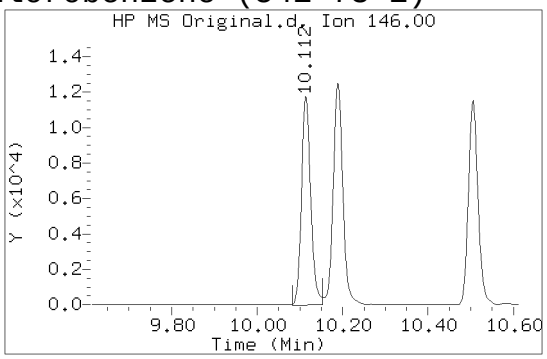
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Inj Date : 22-MAY-2024 21:48
InstruID : VOA9.i
LabSampID : VSTD005

1,3-Dichlorobenzene (541-73-1)

Reason Code:

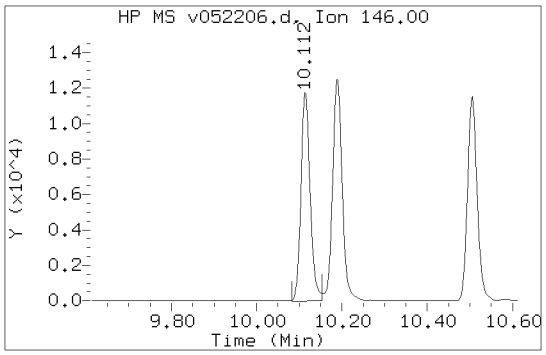
BEFORE

MASS
146
AREA
17996
HEIGHT
11777
23-May-2024
09:51
firat
tastan



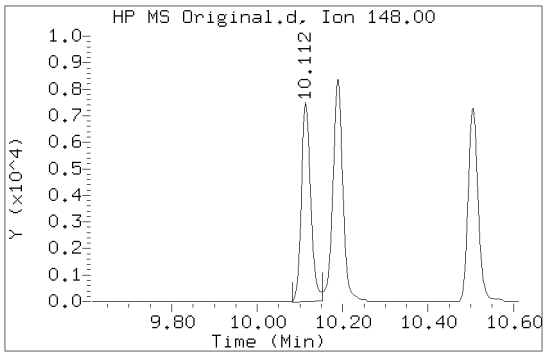
AFTER

MASS
146
AREA
17996
HEIGHT
11777
23-May-2024
09:51
firat
tastan



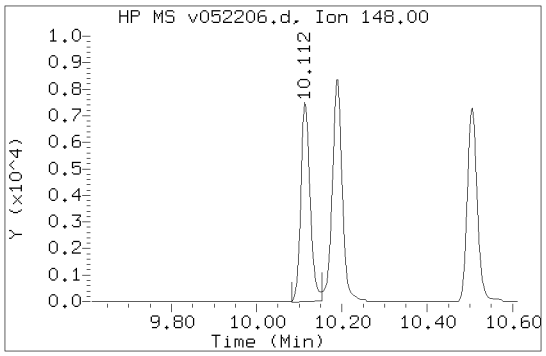
BEFORE

MASS
148
AREA
11614
HEIGHT
7503
23-May-2024
09:51
firat
tastan



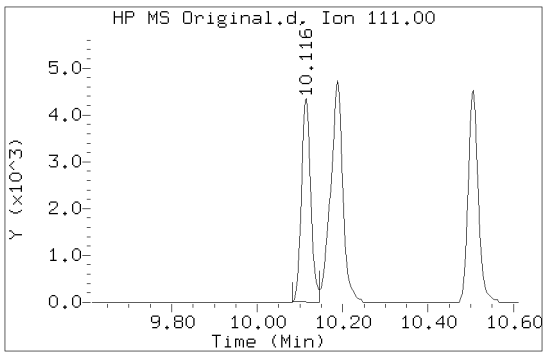
AFTER

MASS
148
AREA
11614
HEIGHT
7503
23-May-2024
09:51
firat
tastan



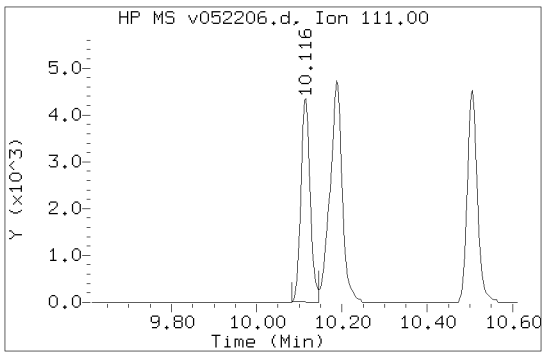
BEFORE

MASS
111
AREA
6722
HEIGHT
4345
23-May-2024
09:51
firat
tastan



AFTER

MASS
111
AREA
6722
HEIGHT
4345
23-May-2024
09:51
firat
tastan

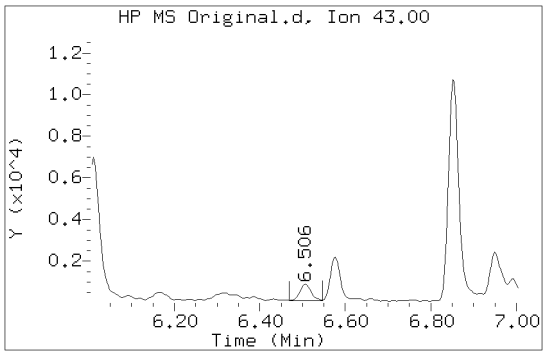


2-Nitropropane (79-46-9)

Reason Code:

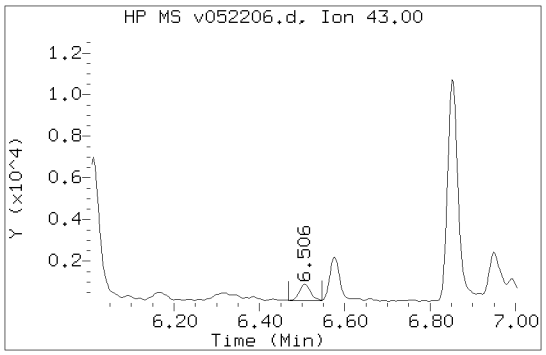
BEFORE

MASS
43
AREA
1500
HEIGHT
792
23-May-2024
09:51
firat
tastan



AFTER

MASS
43
AREA
1500
HEIGHT
792
23-May-2024
09:51
firat
tastan



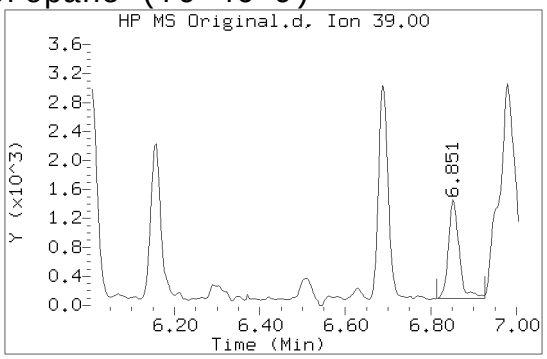
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Inj Date : 22-MAY-2024 21:48
InstruID : VOA9.i
LabSampID : VSTD005

2-Nitropropane (79-46-9)

Reason Code:

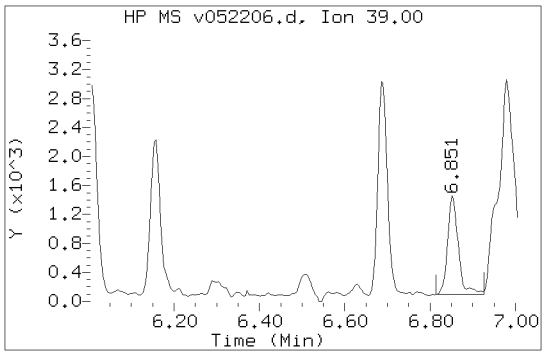
BEFORE

MASS
39
AREA
2394
HEIGHT
1364
23-May-2024
09:51
firat
tastan



AFTER

MASS
39
AREA
2394
HEIGHT
1364
23-May-2024
09:51
firat
tastan

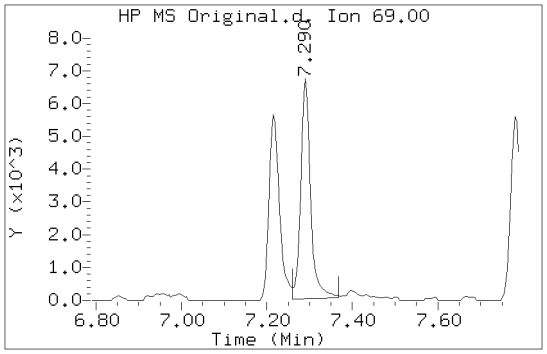


Ethyl Methacrylate (97-63-2)

Reason Code:

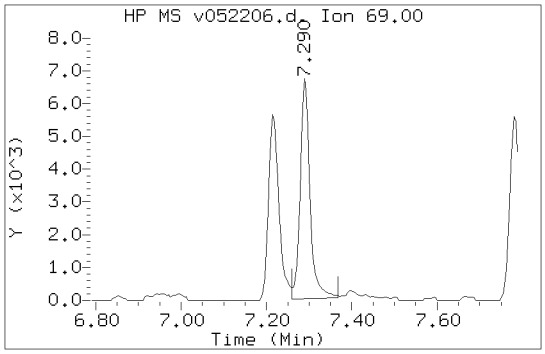
BEFORE

MASS
69
AREA
11035
HEIGHT
6715
23-May-2024
09:51
firat
tastan



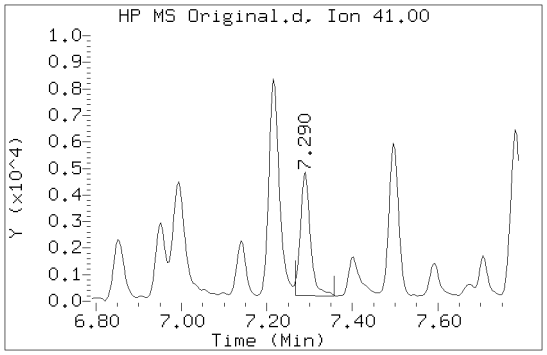
AFTER

MASS
69
AREA
11035
HEIGHT
6715
23-May-2024
09:51
firat
tastan



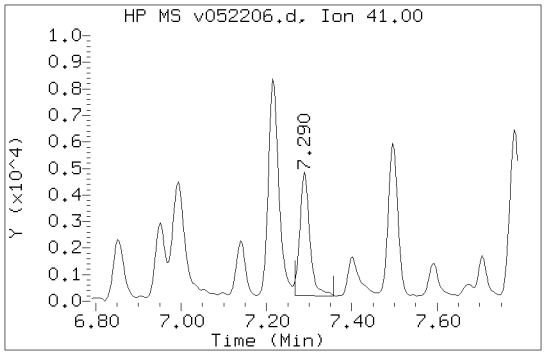
BEFORE

MASS
41
AREA
7774
HEIGHT
4657
23-May-2024
09:51
firat
tastan



AFTER

MASS
41
AREA
7774
HEIGHT
4657
23-May-2024
09:51
firat
tastan

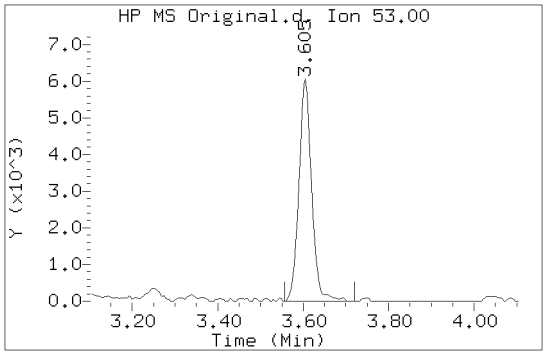


Chloroprene (126-99-8)

Reason Code:

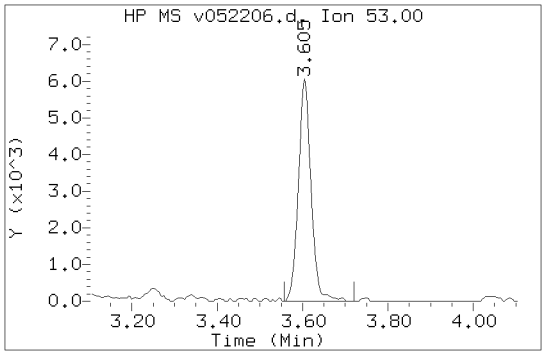
BEFORE

MASS
53
AREA
12743
HEIGHT
6062
23-May-2024
09:51
firat
tastan



AFTER

MASS
53
AREA
12743
HEIGHT
6062
23-May-2024
09:51
firat
tastan



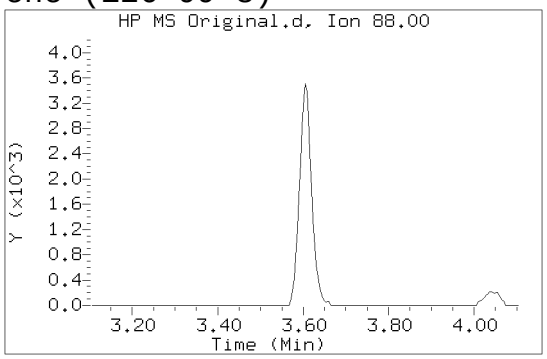
Data File : \\nahstws005\target\chem\voa9.i\u240523.b\v052206.d
Inj Date : 22-MAY-2024 21:48
InstruID : VOA9.i
LabSampID : VSTD005

Chloroprene (126-99-8)

Reason Code:

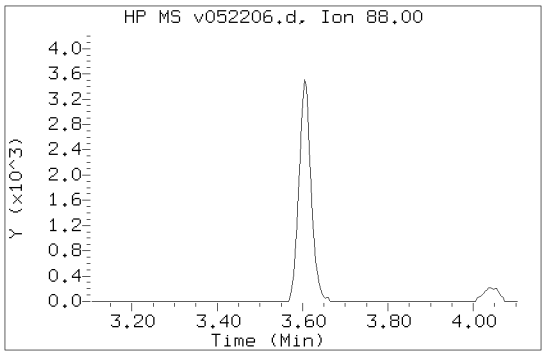
BEFORE

MASS
88
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



AFTER

MASS
88
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan

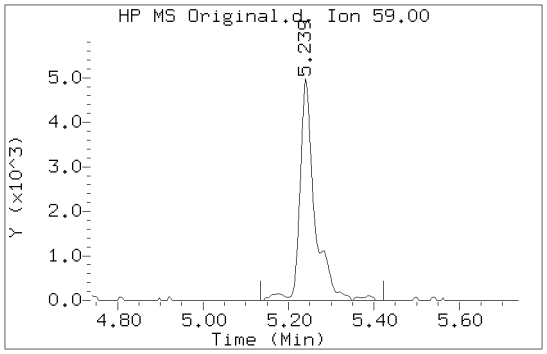


tert-Butyl formate (762-75-4)

Reason Code:

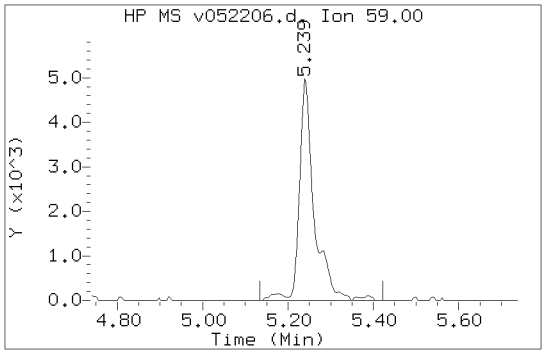
BEFORE

MASS
59
AREA
12331
HEIGHT
4979
23-May-2024
09:51
firat
tastan



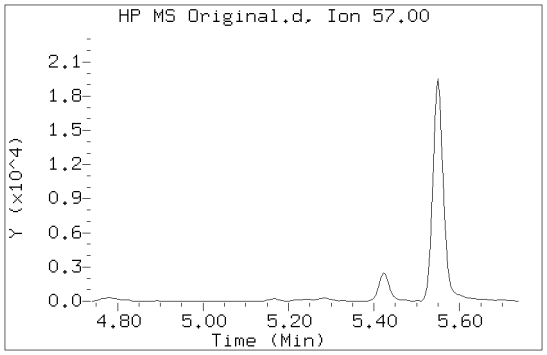
AFTER

MASS
59
AREA
12331
HEIGHT
4979
23-May-2024
09:51
firat
tastan



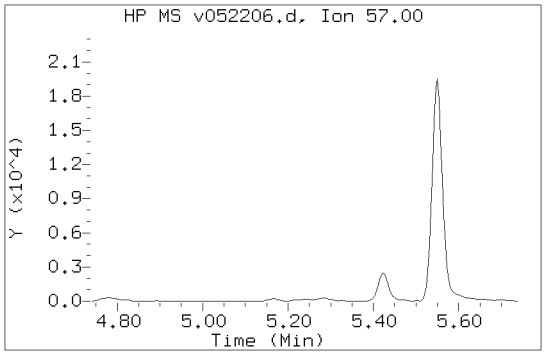
BEFORE

MASS
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HEIGHT
0
23-May-2024
09:51
firat
tastan



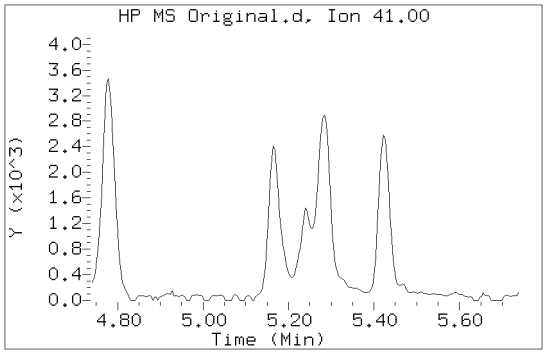
AFTER

MASS
57
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HEIGHT
0
23-May-2024
09:51
firat
tastan



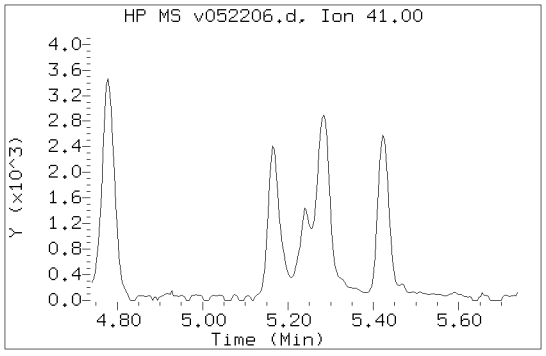
BEFORE

MASS
41
AREA
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HEIGHT
0
23-May-2024
09:51
firat
tastan



AFTER

MASS
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AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



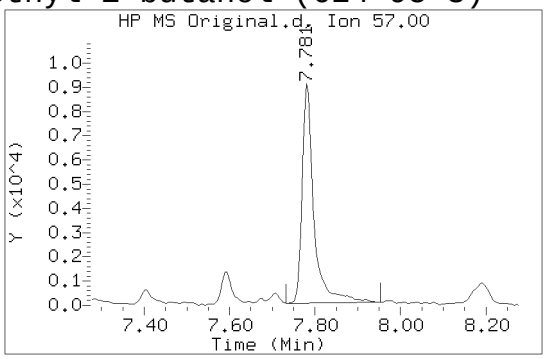
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Inj Date : 22-MAY-2024 21:48
InstruID : VOA9.i
LabSampID : VSTD005

3,3-Dimethyl-1-butanol (624-95-3)

Reason Code:

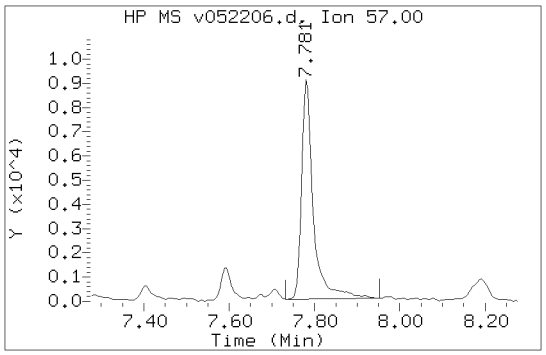
BEFORE

MASS
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AREA
17497
HEIGHT
9058
23-May-2024
09:51
firat
tastan



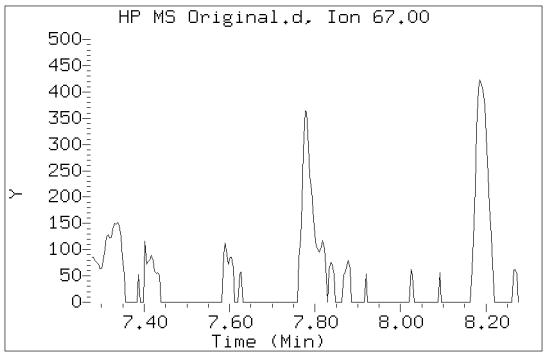
AFTER

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AREA
17497
HEIGHT
9058
23-May-2024
09:51
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tastan



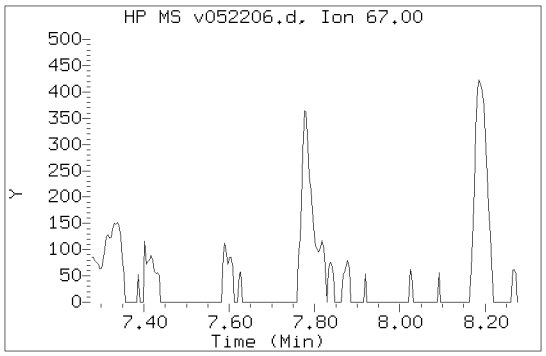
BEFORE

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0
23-May-2024
09:51
firat
tastan



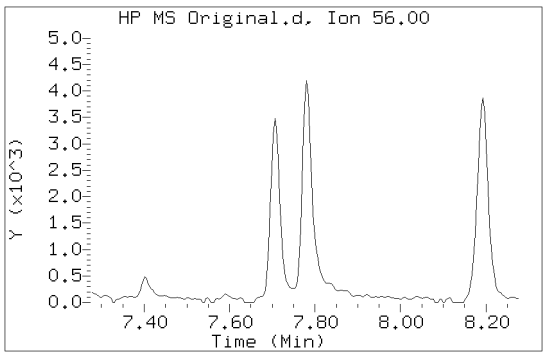
AFTER

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67
AREA
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HEIGHT
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23-May-2024
09:51
firat
tastan



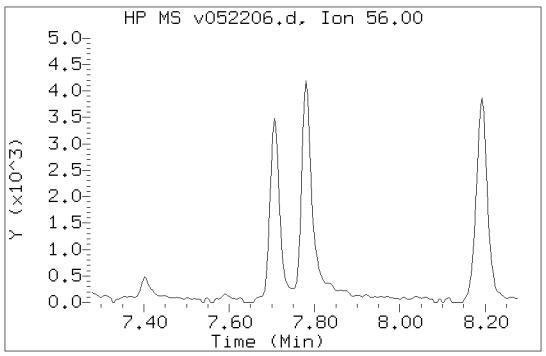
BEFORE

MASS
56
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0
23-May-2024
09:51
firat
tastan



AFTER

MASS
56
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan

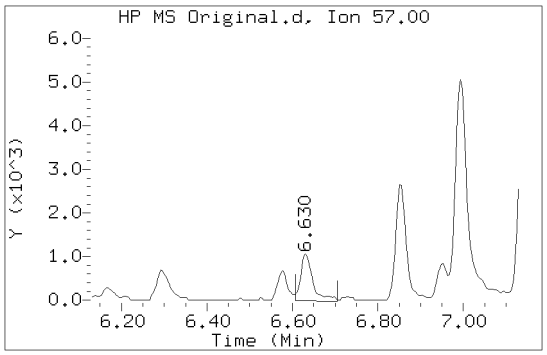


Epichlorohydrin (106-89-8)

Reason Code:

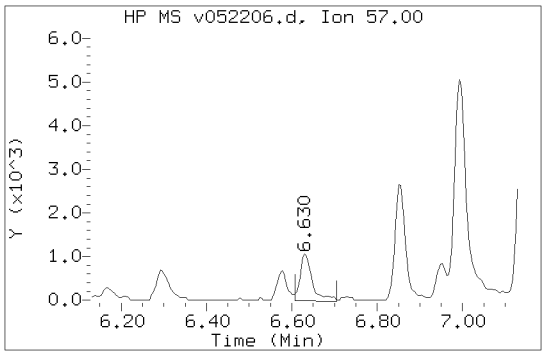
BEFORE

MASS
57
AREA
2190
HEIGHT
1076
23-May-2024
09:51
firat
tastan



AFTER

MASS
57
AREA
2190
HEIGHT
1076
23-May-2024
09:51
firat
tastan



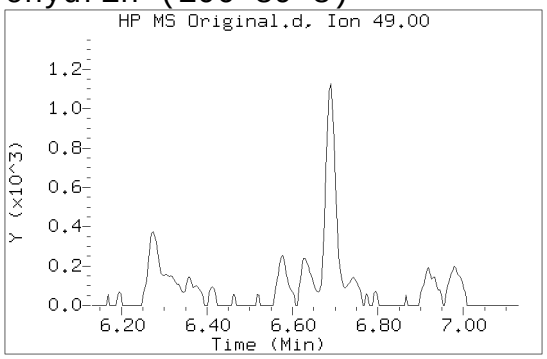
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Inj Date : 22-MAY-2024 21:48
InstruID : VOA9.i
LabSampID : VSTD005

Epichlorohydrin (106-89-8)

Reason Code:

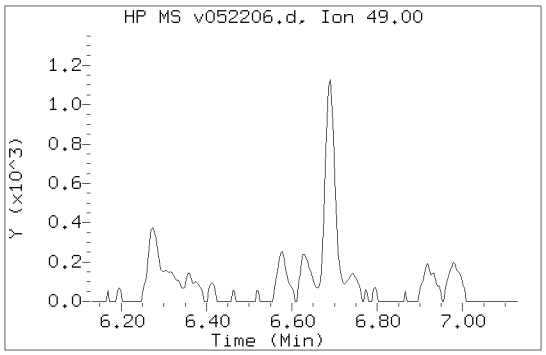
BEFORE

MASS
49
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



AFTER

MASS
49
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan

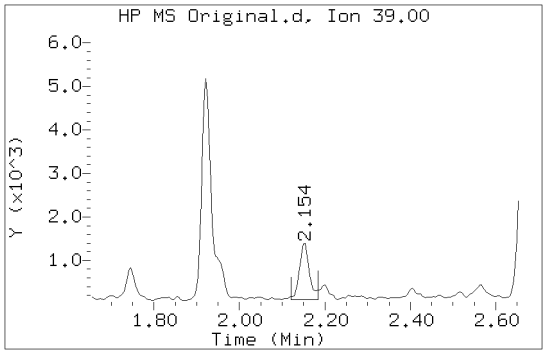


Isoprene (78-79-5)

Reason Code:

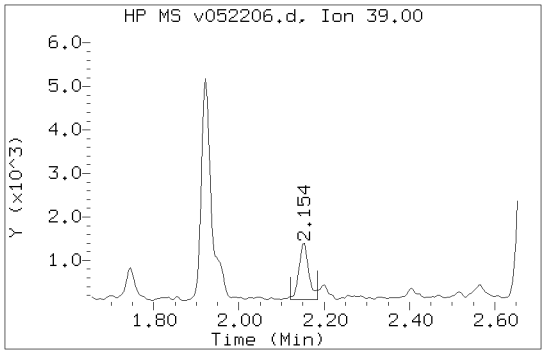
BEFORE

MASS
39
AREA
2160
HEIGHT
1287
23-May-2024
09:51
firat
tastan



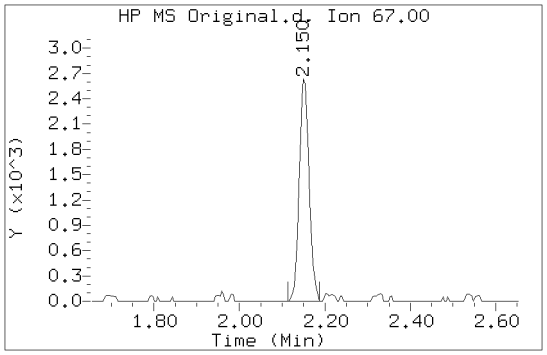
AFTER

MASS
39
AREA
2160
HEIGHT
1287
23-May-2024
09:51
firat
tastan



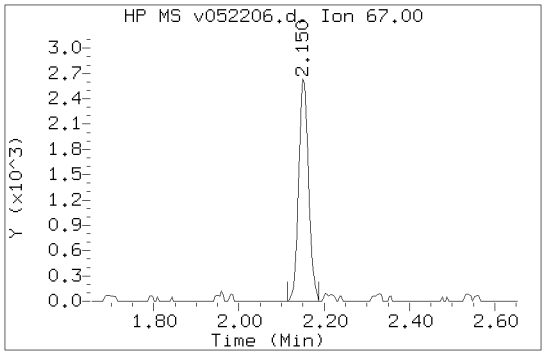
BEFORE

MASS
67
AREA
4343
HEIGHT
2635
23-May-2024
09:51
firat
tastan



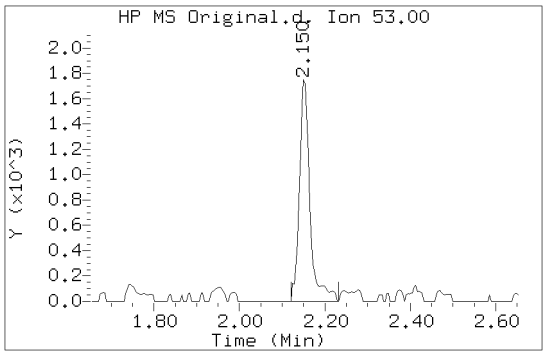
AFTER

MASS
67
AREA
4343
HEIGHT
2635
23-May-2024
09:51
firat
tastan



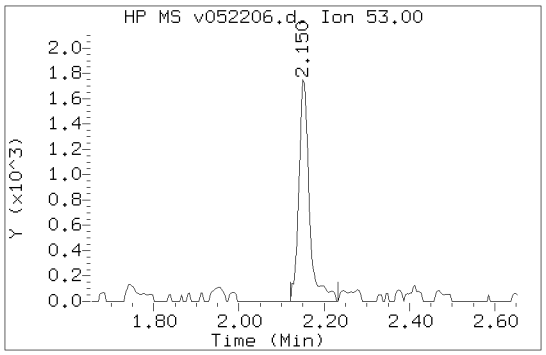
BEFORE

MASS
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AREA
3074
HEIGHT
1750
23-May-2024
09:51
firat
tastan



AFTER

MASS
53
AREA
3074
HEIGHT
1750
23-May-2024
09:51
firat
tastan



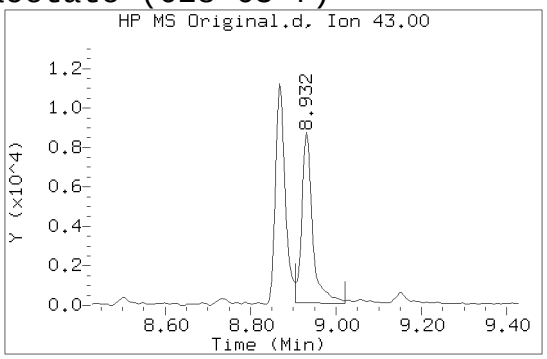
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Inj Date : 22-MAY-2024 21:48
InstruID : VOA9.i
LabSampID : VSTD005

n-Amyl acetate (628-63-7)

Reason Code:

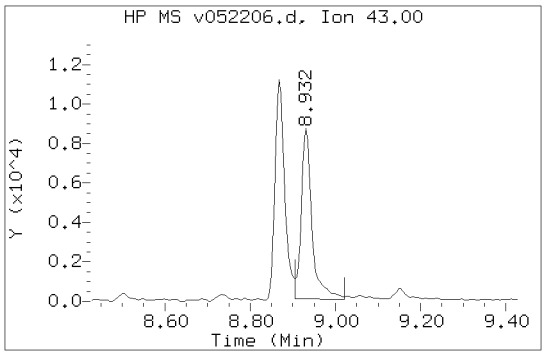
BEFORE

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43
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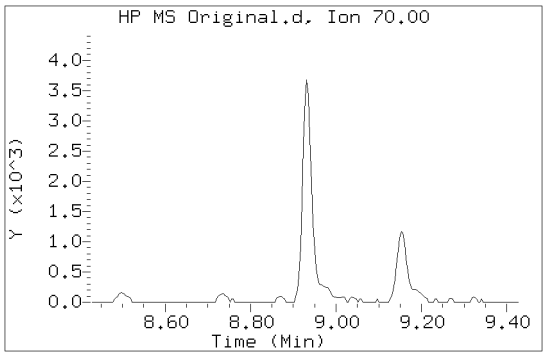
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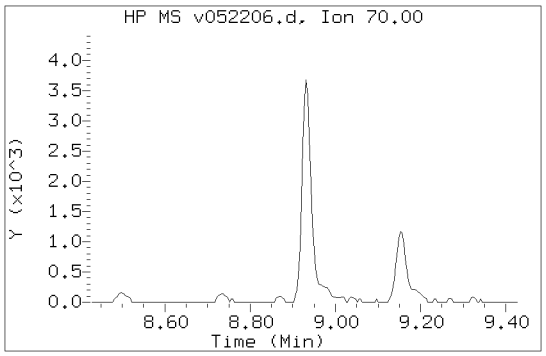
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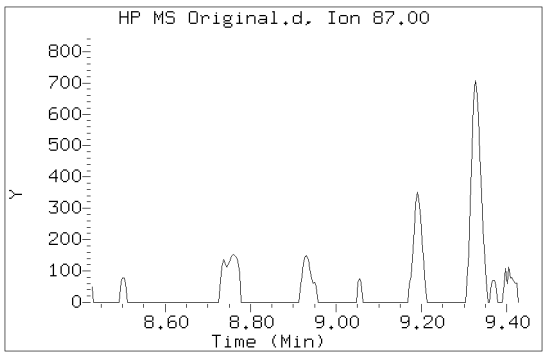
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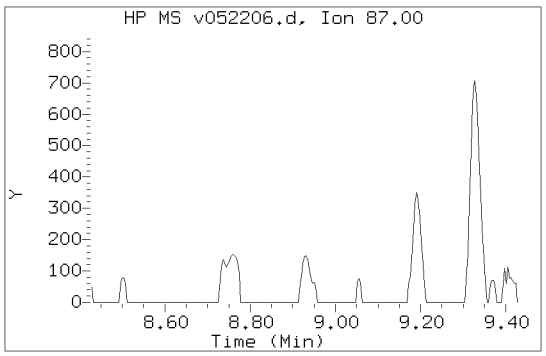
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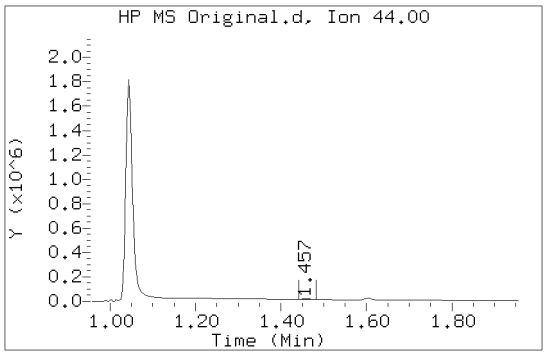


Acetaldehyde (75-07-0)

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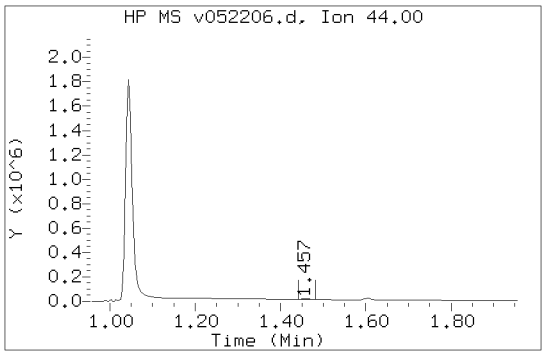
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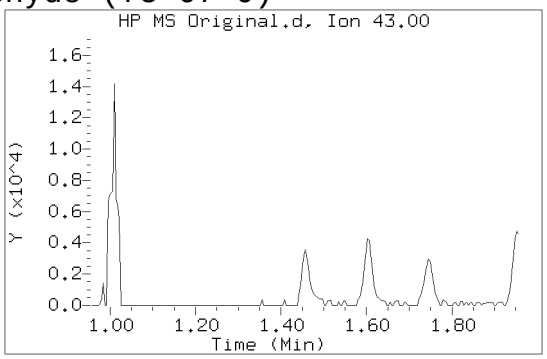
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LabSampID : VSTD005

Acetaldehyde (75-07-0)

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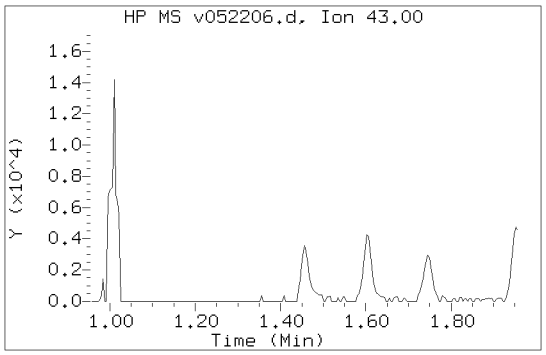
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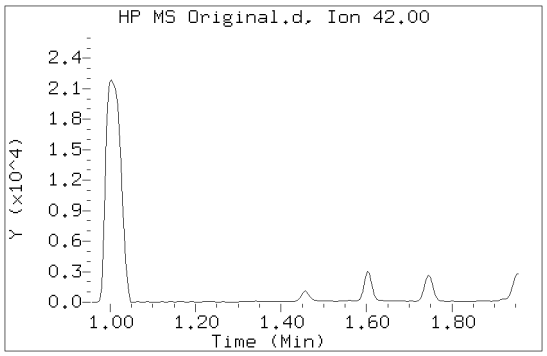
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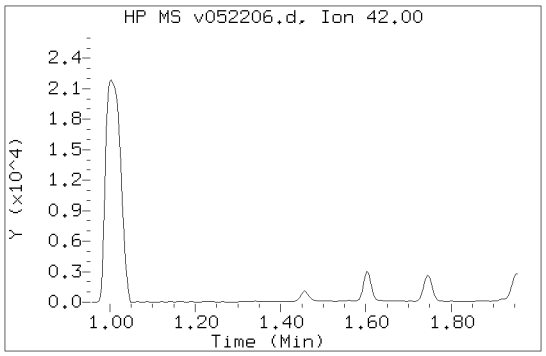
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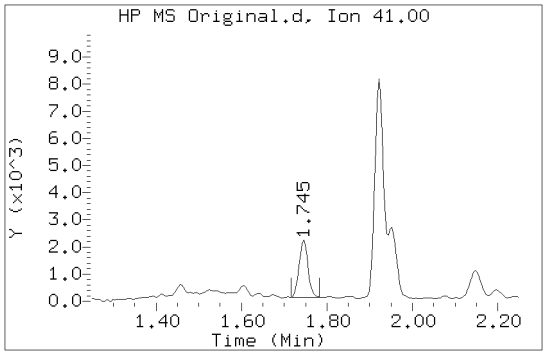


Isobutylene (115-11-7)

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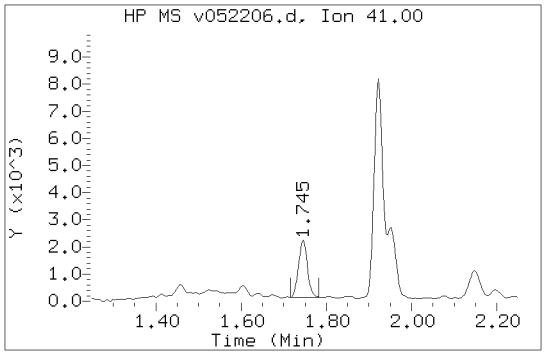
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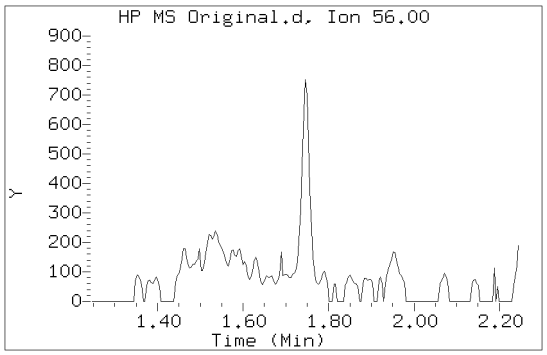
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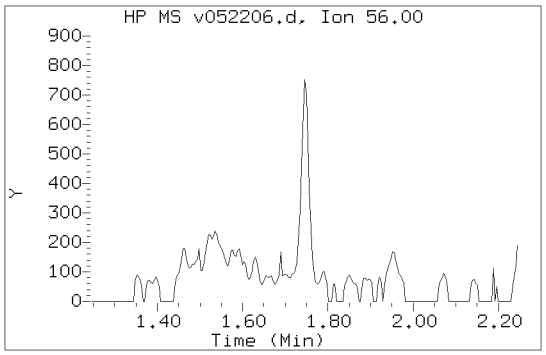
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23-May-2024
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AFTER

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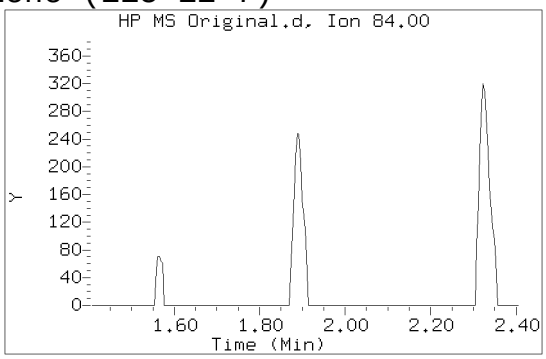
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LabSampID : VSTD005

Isobutylene (115-11-7)

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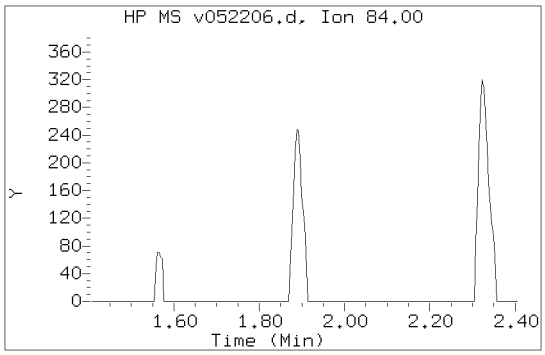
BEFORE

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Report Date: 23-May-2024 09:51

ALS Laboratory Group

Data file : \\nahstws005\Target\chem\voa9.i\U240523.b\V052207.D
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Inj Date : 22-MAY-2024 22:10
Operator : FT Inst ID: VOA9.i
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Cal Date : 22-MAY-2024 21:48 Cal File: V052206.D
Als bottle: 34 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7066

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	4.812	4.812	(1.000)	237051	50.0000	
2	Dichlorodifluoromethane	85	1.164	1.164	(0.242)	25670	20.0000	20.29(M)
3	Chloromethane	50	1.295	1.295	(0.269)	92896	20.0000	12.62
4	Propionitrile	54	4.335	4.335	(0.901)	53459	200.000	178.48(a)
5	Vinyl Chloride	62	1.378	1.378	(0.286)	41938	20.0000	19.53
6	Bromomethane	94	1.618	1.618	(0.336)	14446	20.0000	12.30
7	Chloroethane	64	1.696	1.696	(0.353)	29580	20.0000	19.94
8	Trichlorofluoromethane	101	1.895	1.895	(0.394)	51124	20.0000	20.86
9	Acrolein	56	2.262	2.262	(0.470)	3650	40.0000	29.59
10	Acetone	43	2.409	2.409	(0.501)	29961	40.0000	35.01
11	1,1-Dichloroethene	96	2.330	2.330	(0.484)	29118	20.0000	19.51
12	Isobutyl Alcohol	43	5.284	5.284	(1.098)	100941	400.000	352.84(a)
13	Acetonitrile	39	2.671	2.671	(0.555)	35775	200.000	182.72(a)
14	Allyl Chloride	41	2.671	2.671	(0.555)	88098	20.0000	17.47(a)
15	Iodomethane	142	2.461	2.461	(0.512)	8911	40.0000	20.04
16	Acrylonitrile	53	3.065	3.065	(0.637)	26132	40.0000	34.81
17	Methylene Chloride	84	2.795	2.795	(0.581)	38922	20.0000	13.27
18	Methyl tert-butyl ether	73	3.080	3.080	(0.640)	83654	20.0000	17.59
19	Carbon Disulfide	76	2.517	2.517	(0.523)	173430	40.0000	38.41
20	trans-1,2-Dichloroethene	96	3.057	3.057	(0.635)	32224	20.0000	18.84

21 Vinyl Acetate	43	4.339	4.339 (0.902)	40971	40.0000	34.95
22 1,1-Dichloroethane	63	3.511	3.511 (0.730)	61717	20.0000	18.16

Data File: \\nahstws005\Target\chem\voa9.i\U240523.b\V052207.D Page 2
Report Date: 23-May-2024 09:51

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
23	Chloroprene	53	3.604	3.604	(0.749)	50213	20.0000	19.21(M)
24	2-Butanone	43	4.264	4.264	(0.886)	38584	40.0000	34.92
25	Methacrylonitrile	41	4.493	4.493	(0.934)	20676	20.0000	16.56(a)
26	2,2-Dichloropropane	77	4.178	4.178	(0.868)	39638	20.0000	18.95
27	cis-1,2-Dichloroethene	96	4.193	4.193	(0.871)	39020	20.0000	19.01
28	Chloroform	83	4.572	4.572	(0.950)	63122	20.0000	18.49
29	Bromochloromethane	128	4.467	4.467	(0.928)	18597	20.0000	18.39
$ 30	Dibromofluoromethane	113	4.748	4.748	(0.987)	33492	20.0000	19.45
31	1,1,1-Trichloroethane	97	4.740	4.740	(0.985)	48058	20.0000	20.11
32	1,1-Dichloropropene	75	4.920	4.920	(0.887)	46989	20.0000	19.12
33	1,2-Dichloroethane	62	5.175	5.175	(0.932)	50147	20.0000	18.37
34	Carbon Tetrachloride	117	4.909	4.909	(0.885)	38147	20.0000	19.10
$ 35	1,2-Dichloroethane-d4	65	5.096	5.096	(1.059)	41399	20.0000	19.14
* 36	1,4-Difluorobenzene	114	5.550	5.550	(1.000)	347932	50.0000	
37	Benzene	78	5.138	5.138	(0.926)	145783	20.0000	18.34
38	Trichloroethene	130	5.786	5.786	(1.043)	36804	20.0000	19.08
39	Bromodichloromethane	83	6.277	6.277	(1.131)	40015	20.0000	18.88
40	Methyl Methacrylate	41	5.824	5.824	(1.210)	11958	20.0000	16.13(a)
41	2-Chloroethylvinyl ether	63	6.573	6.573	(1.184)	25169	40.0000	37.20
42	1,2-Dichloropropane	63	6.007	6.007	(1.082)	39815	20.0000	18.06
43	2-Nitropropane	43	6.506	6.506	(1.352)	6840	20.0000	16.81(M)
44	Dibromomethane	93	6.116	6.116	(1.102)	22877	20.0000	19.06
45	4-Methyl-2-Pentanone	43	6.851	6.851	(0.837)	80664	40.0000	37.23
46	cis-1,3-Dichloropropene	75	6.690	6.690	(1.205)	46281	20.0000	18.94
* 47	Chlorobenzene-d5	117	8.182	8.182	(1.000)	314018	50.0000	
$ 48	Toluene-d8	98	6.918	6.918	(0.846)	123251	20.0000	19.32
49	Ethyl Methacrylate	69	7.289	7.289	(1.313)	46429	20.0000	18.08(aM)
50	Toluene	91	6.978	6.978	(0.853)	153438	20.0000	19.33
51	trans-1,3-Dichloropropene	75	7.196	7.196	(1.296)	36762	20.0000	19.28
52	2-Hexanone	43	7.589	7.589	(0.928)	51129	40.0000	35.24
53	1,1,2-Trichloroethane	83	7.353	7.353	(0.899)	29346	20.0000	18.72
54	1,3-Dichloropropane	76	7.496	7.496	(0.916)	61013	20.0000	18.51
55	Dibromochloromethane	129	7.691	7.691	(0.940)	29397	20.0000	19.10
56	Tetrachloroethene	164	7.454	7.454	(0.911)	29963	20.0000	20.02
57	1,2-Dibromoethane	107	7.781	7.781	(0.951)	32376	20.0000	19.27
58	1-Chlorohexane	55	8.193	8.193	(1.476)	31204	20.0000	11.19
59	Chlorobenzene	112	8.208	8.208	(1.003)	97577	20.0000	18.06
60	1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	31195	20.0000	19.04
61	Ethylbenzene	106	8.305	8.305	(1.015)	48129	20.0000	18.92
62	m,p-Xylenes	106	8.407	8.407	(1.027)	122657	40.0000	39.26
63	o-Xylene	106	8.744	8.744	(1.069)	59411	20.0000	19.43
64	Styrene	104	8.759	8.759	(1.071)	102416	20.0000	19.74
66	Bromoform	173	8.916	8.916	(1.090)	17174	20.0000	17.92
67	Isopropylbenzene	105	9.059	9.059	(1.107)	149702	20.0000	19.74
68	1,1,2,2-Tetrachloroethane	83	9.325	9.325	(0.917)	47816	20.0000	18.32
$ 69	4-Bromofluorobenzene	95	9.190	9.190	(1.123)	46114	20.0000	18.94
* 70	1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	170035	50.0000	
71	1,2,3-Trichloropropane	75	9.359	9.359	(0.920)	46169	20.0000	17.73
72	trans-1,4-Dichloro-2-butene	53	9.374	9.374	(1.146)	9783	20.0000	17.45(a)
73	n-Propylbenzene	91	9.411	9.411	(0.926)	174297	20.0000	19.84
74	Bromobenzene	156	9.314	9.314	(0.916)	41506	20.0000	18.56
75	1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	120750	20.0000	19.92

76	2-Chlorotoluene	91	9.479	9.479 (0.932)	106799	20.0000	18.76
77	4-Chlorotoluene	91	9.572	9.572 (0.941)	123529	20.0000	19.06

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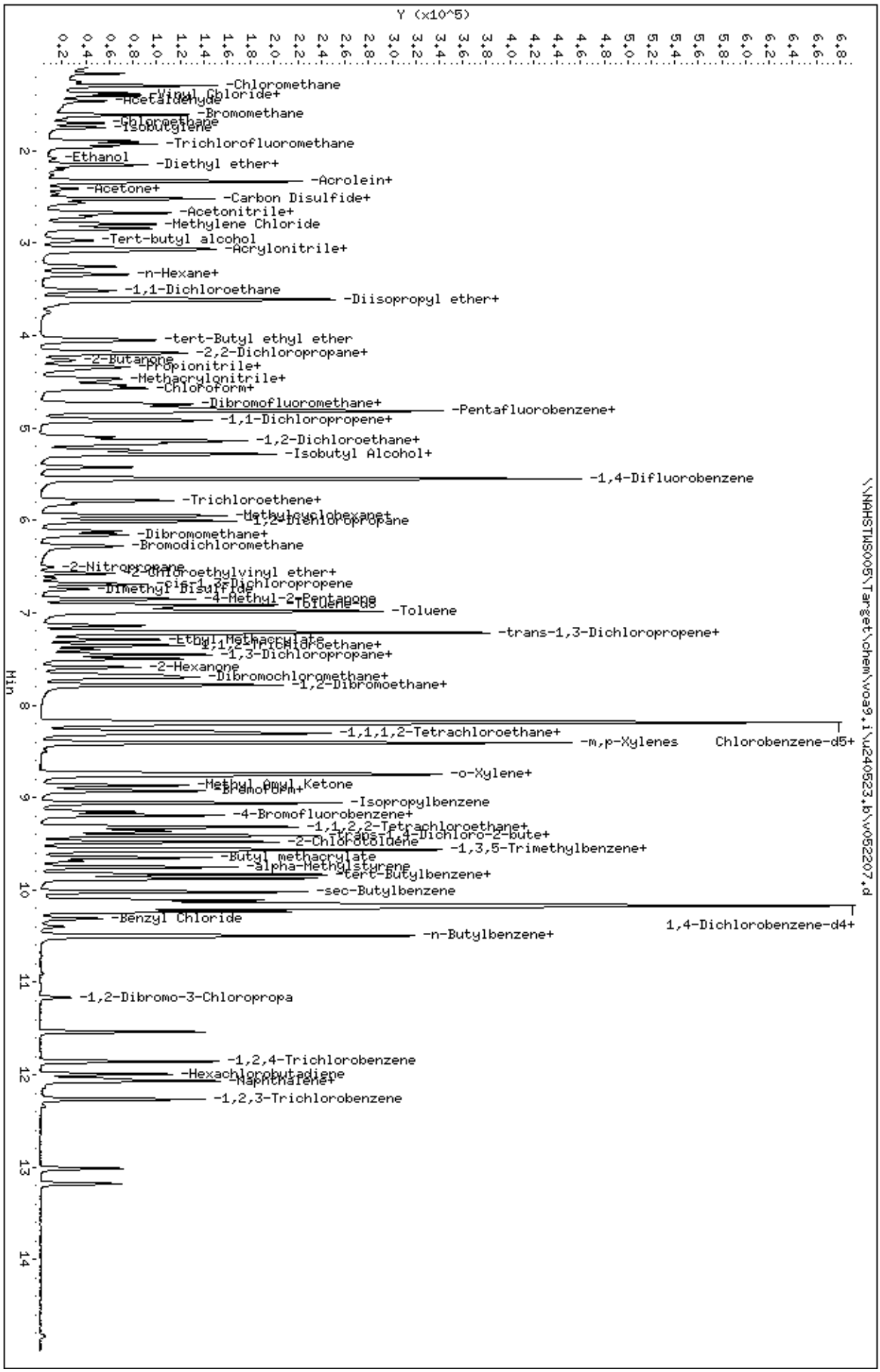
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
78	tert-Butylbenzene	119	9.835	9.835	(0.967)	106932	20.0000	20.11
79	1,2,4-Trimethylbenzene	105	9.876	9.876	(0.971)	118805	20.0000	19.10
81	sec-Butylbenzene	105	10.018	10.018	(0.985)	142054	20.0000	20.10
82	p-Isopropyltoluene	119	10.146	10.146	(0.998)	122382	20.0000	19.89
83	1,3-Dichlorobenzene	146	10.112	10.112	(0.994)	73922	20.0000	18.38(M)
84	1,4-Dichlorobenzene	146	10.187	10.187	(1.002)	77028	20.0000	17.16
86	Benzyl Chloride	91	10.311	10.311	(1.260)	34867	20.0000	10.16
87	n-Butylbenzene	91	10.491	10.491	(1.032)	109317	20.0000	18.30
88	1,2-Dichlorobenzene	146	10.502	10.502	(1.033)	72010	20.0000	17.68
89	1,2-Dibromo-3-Chloropropane	155	11.166	11.166	(1.098)	5037	20.0000	17.49
90	1,2,4-Trichlorobenzene	180	11.855	11.855	(1.166)	45971	20.0000	18.01
91	Hexachlorobutadiene	225	11.994	11.994	(1.180)	20767	20.0000	18.51
92	Naphthalene	128	12.065	12.065	(1.187)	103040	20.0000	19.03
93	1,2,3-Trichlorobenzene	180	12.268	12.268	(1.206)	43170	20.0000	18.16
146	Methyl acetate	43	2.712	2.712	(0.564)	40129	20.0000	16.98
138	Freon TF	101	2.334	2.334	(0.485)	53626	20.0000	21.00
141	Cyclohexane	56	4.782	4.782	(0.994)	56651	20.0000	13.18
142	Tetrahydrofuran	42	4.542	4.542	(0.944)	14728	40.0000	32.80
147	Methylcyclohexane	55	5.944	5.944	(1.071)	80527	20.0000	19.27
135	1,4-Dioxane	88	6.169	6.169	(1.282)	6932	400.000	258.25(M)
132	n-Butanol	56	5.824	5.824	(1.210)	15565	400.000	348.61(a)
136	n-Hexane	57	3.338	3.338	(0.694)	35519	20.0000	19.16
139	Diethyl ether	59	2.142	2.142	(0.445)	23422	20.0000	17.83
148	Tert-butyl alcohol	59	2.967	2.967	(0.617)	47273	400.000	335.30
149	Isopropyl alcohol	45	2.562	2.562	(0.533)	36513	400.000	321.31(T)
152	Amyl alcohol	42	7.398	7.398	(0.904)	17278	400.000	313.67
156	Diisopropyl ether	45	3.619	3.619	(0.752)	111300	20.0000	17.89(T)
162	Butyl acrylate	55	8.733	8.733	(1.067)	56775	20.0000	17.09
187	n-Amyl acetate	43	8.928	8.928	(1.091)	63254	20.0000	17.80
164	Dicyclopentadiene	66	10.198	10.198	(1.003)	147876	20.0000	16.79
166	1,2,3-Trimethylbenzene	105	10.232	10.232	(1.006)	109398	20.0000	18.97
167	Ethanol	45	2.083	2.083	(0.433)	7268	400.000	313.39
172	tert-Butyl formate	59	5.239	5.239	(1.089)	47935	40.0000	35.11
173	3,3-Dimethyl-1-butanol	57	7.781	7.781	(0.951)	74287	400.000	357.94
174	tert-Amyl methyl ether	73	5.284	5.284	(1.098)	97788	20.0000	18.65
175	tert-Butyl ethyl ether	59	4.047	4.047	(0.841)	93982	20.0000	17.83
176	tert-Amyl alcohol	59	5.239	5.239	(1.089)	47935	400.000	352.85
151	4-Methyl-2-pentanol	45	7.214	7.214	(1.300)	197066	400.000	378.76
140	1,3-Butadiene	54	1.400	1.400	(0.291)	19106	20.0000	20.39
182	Epichlorohydrin	57	6.630	6.630	(1.195)	9275	80.0000	73.24
M 94	1,2-Dichloroethylene (total)	96				71244	40.0000	(a)
145	alpha-Methylstyrene	118	9.752	9.752	(0.959)	46445	20.0000	18.64
130	Ethyl Acetate	43	4.339	4.339	(0.902)	40345	20.0000	17.44
131	Methyl Acrylate	55	4.369	4.369	(0.908)	41236	20.0000	18.15
189	n-Butyl acetate	43	7.702	7.702	(0.941)	58533	20.0000	18.07
134	Cyclohexanone	55	9.153	9.153	(0.900)	32764	400.000	333.30(a)
185	Isoprene	39	2.154	2.154	(0.448)	8497	20.0000	21.08
188	Isopropyl acetate	43	5.284	5.284	(0.952)	101323	20.0000	17.38
150	Allyl alcohol	57	3.338	3.338	(0.694)	35519	400.000	383.22
194	Acetaldehyde	44	1.460	1.460	(0.304)	25470	80.0000	79.71(M)
195	Methyl Amyl Ketone	43	8.868	8.868	(1.084)	71357	20.0000	18.12
200	Dimethyl Disulfide	94	6.742	6.742	(0.824)	15182	20.0000	15.30

202 Isobutylene	41	1.749	1.749 (0.364)	11735	20.0000	21.65(M)
133 Ethyl Acrylate	55	5.944	5.944 (1.235)	80527	20.0000	19.26

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
163 Butyl methacrylate	41	9.647	9.647	(0.949)	43896	20.0000	18.97
159 Propylene oxide	43	2.199	2.199	(0.457)	5236	40.0000	29.20
203 2-Ethylhexyl Acrylate	55	12.039	12.039	(1.184)	25358	20.0000	15.35

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\voa9.i\u240523.b\v052207.d
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Client ID: VSTD020
Sample Info: VSTD020;VSTD020;1;6
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9.i
Operator: FT
Column diameter: 0.18

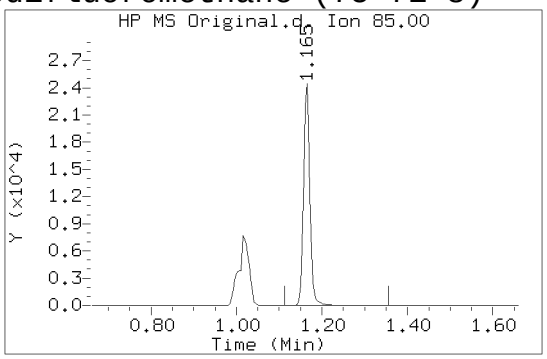
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InstruID : VOA9.i
LabSampID : VSTD020

Dichlorodifluoromethane (75-71-8)

Reason Code:

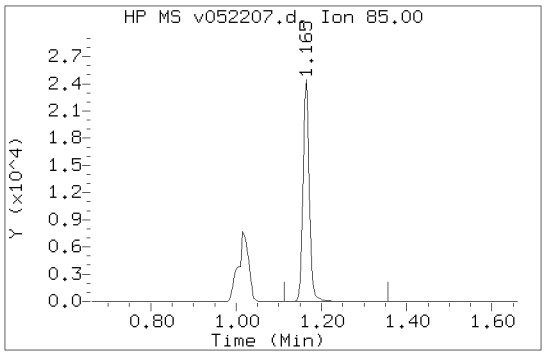
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HEIGHT
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23-May-2024
09:51
firat
tastan



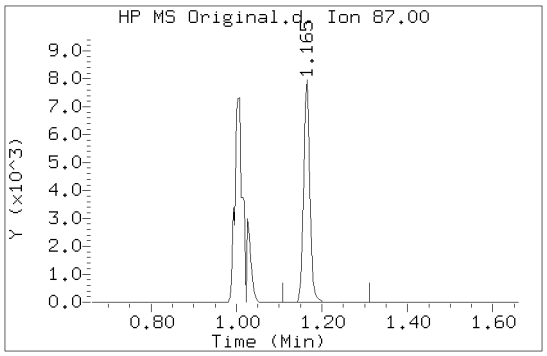
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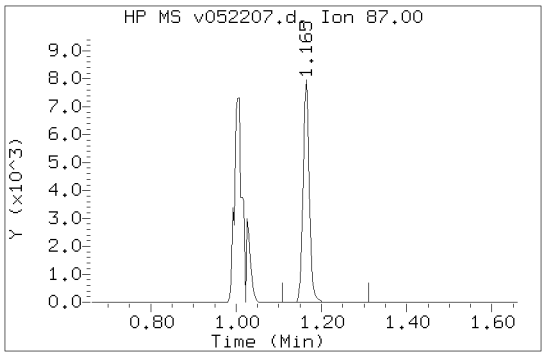
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23-May-2024
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AFTER

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tastan

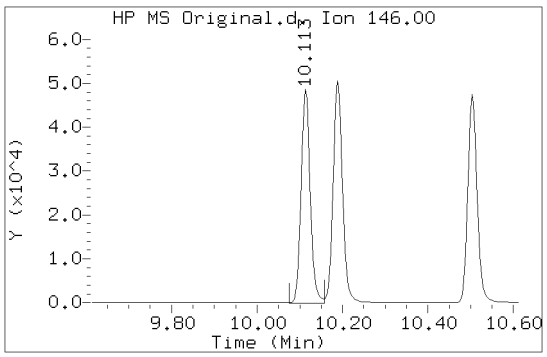


1,3-Dichlorobenzene (541-73-1)

Reason Code:

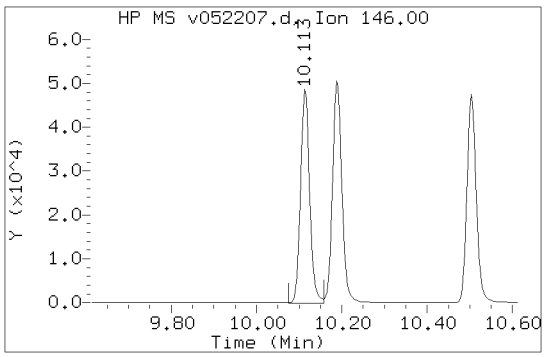
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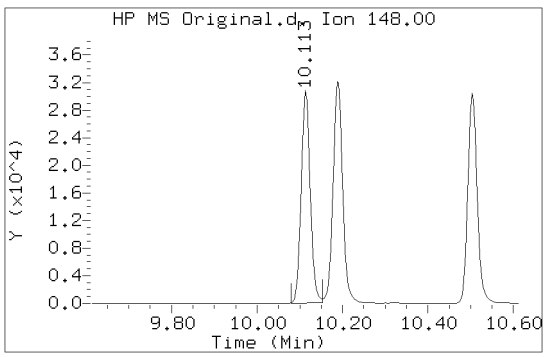
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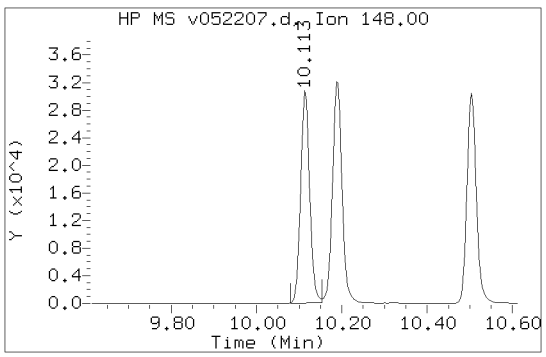
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AFTER

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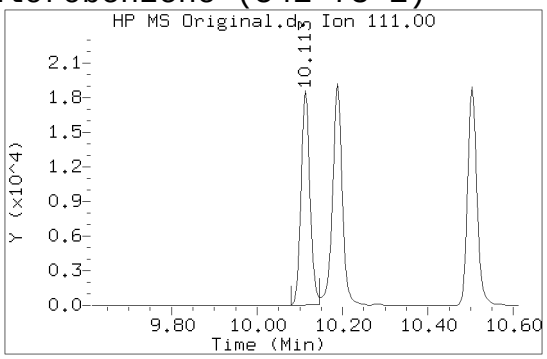


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LabSampID : VSTD020

1,3-Dichlorobenzene (541-73-1)

BEFORE

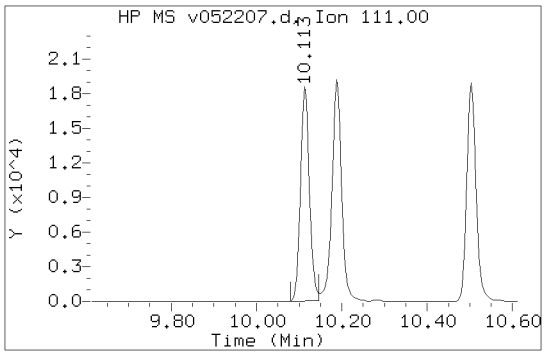
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Reason Code:

AFTER

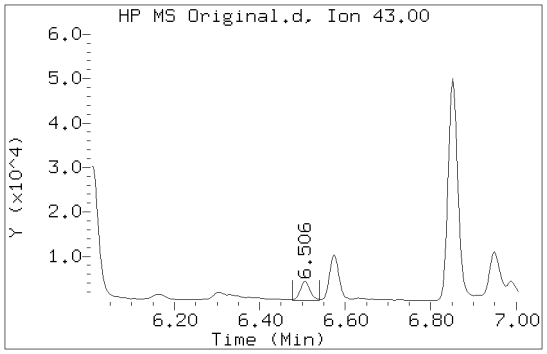
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2-Nitropropane (79-46-9)

BEFORE

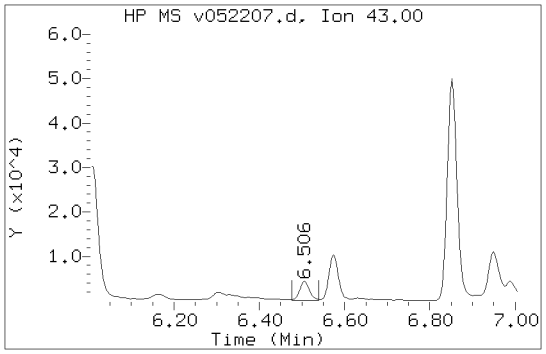
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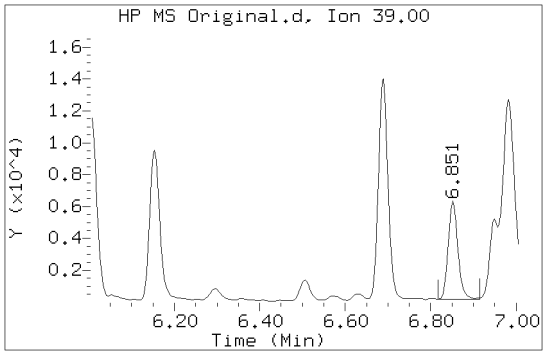
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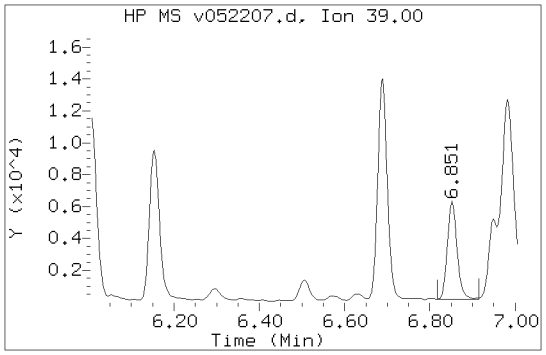
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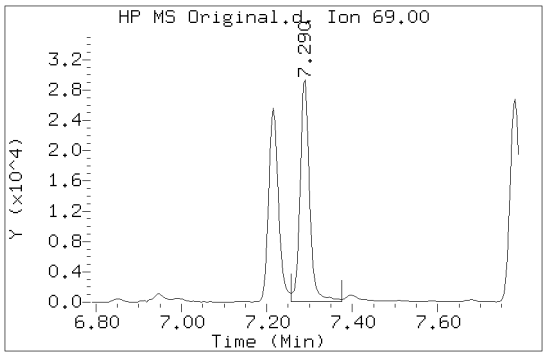
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Ethyl Methacrylate (97-63-2)

BEFORE

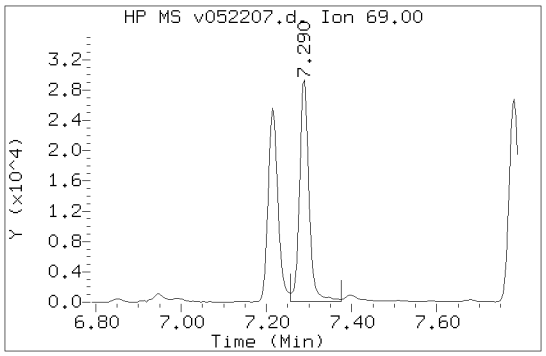
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23-May-2024
09:51
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Reason Code:

AFTER

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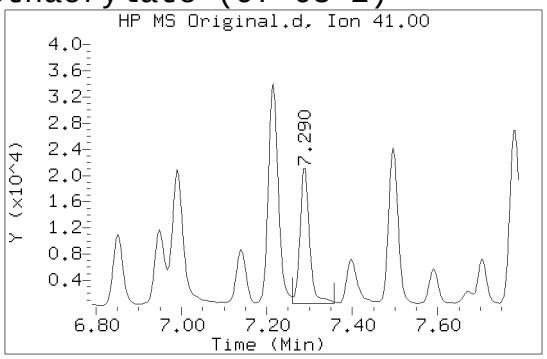
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InstruID : VOA9.i
LabSampID : VSTD020

Ethyl Methacrylate (97-63-2)

Reason Code:

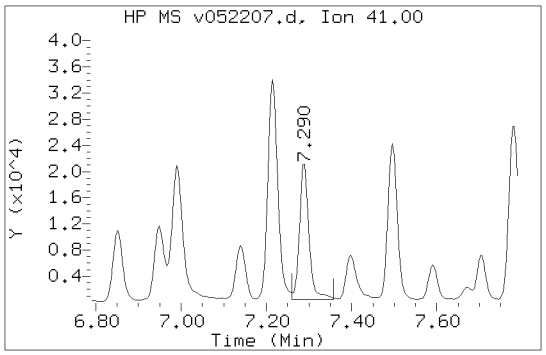
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23-May-2024
09:51
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AFTER

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23-May-2024
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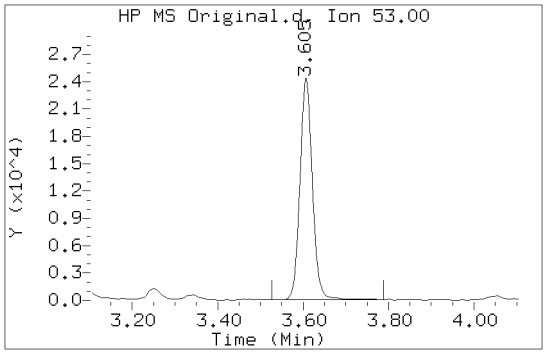


Chloroprene (126-99-8)

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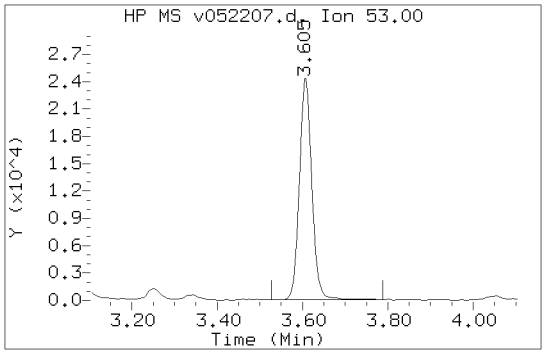
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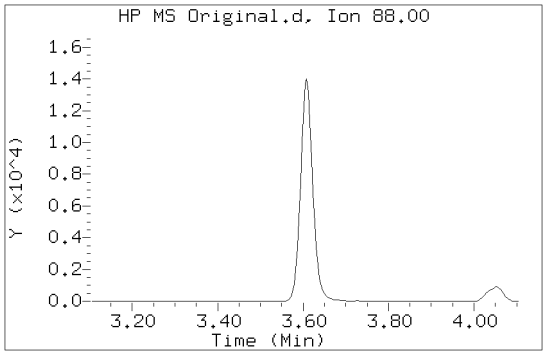
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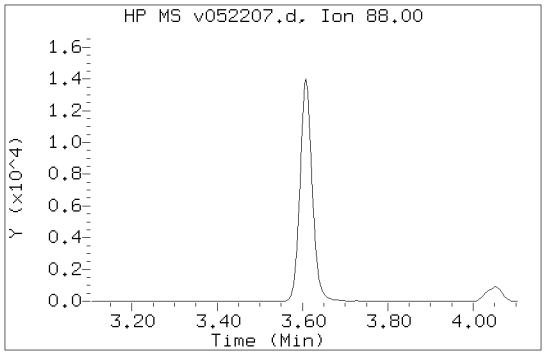
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23-May-2024
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AFTER

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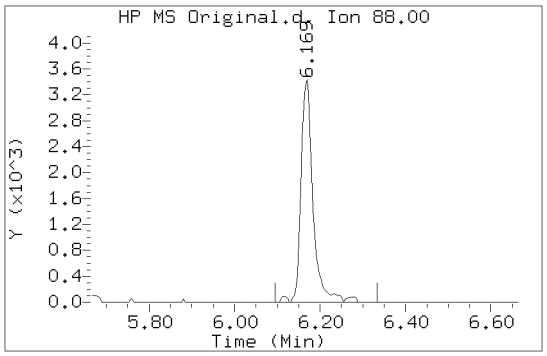


1,4-Dioxane ()

Reason Code:

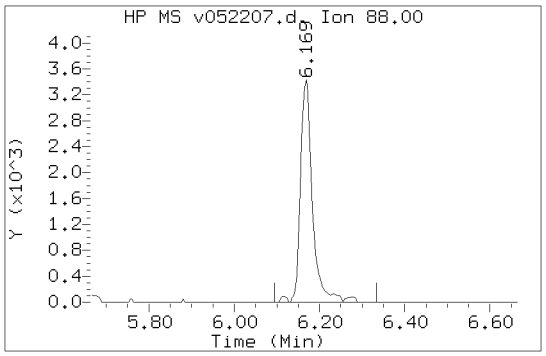
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AFTER

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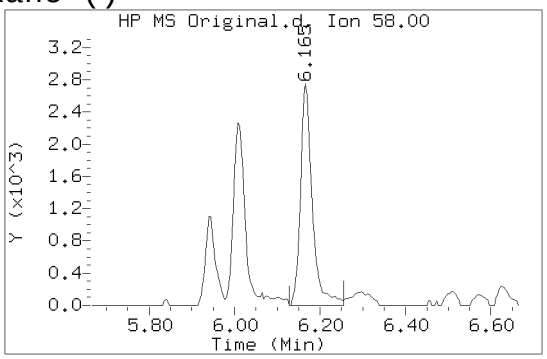
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InstruID : VOA9.i
LabSampID : VSTD020

1,4-Dioxane ()

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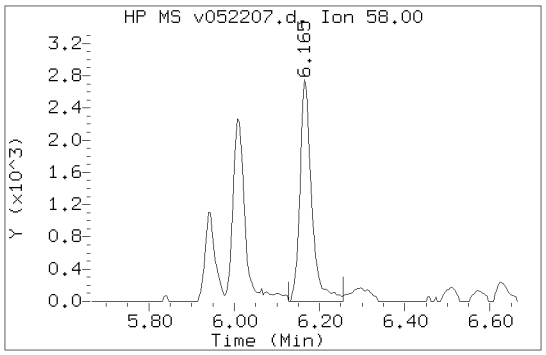
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AFTER

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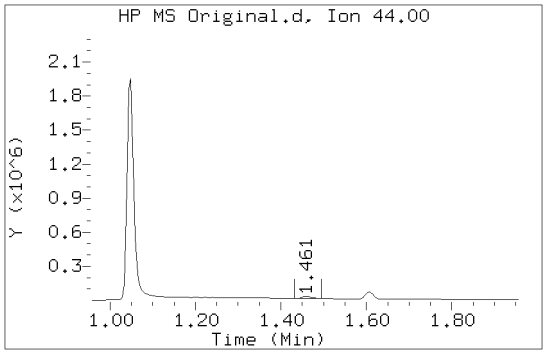


Acetaldehyde (75-07-0)

Reason Code:

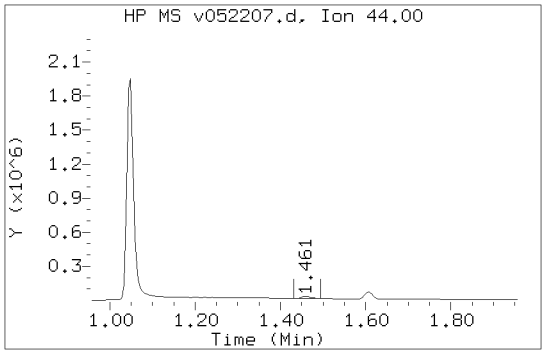
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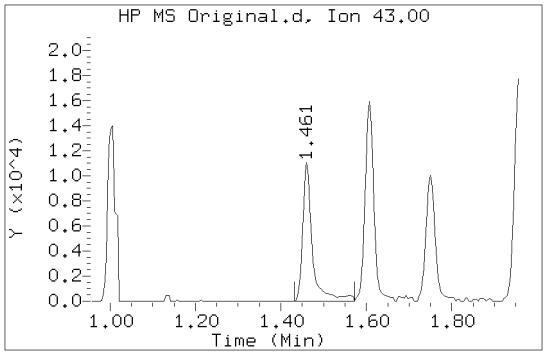
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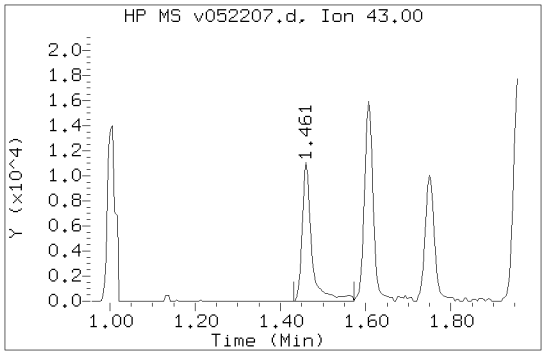
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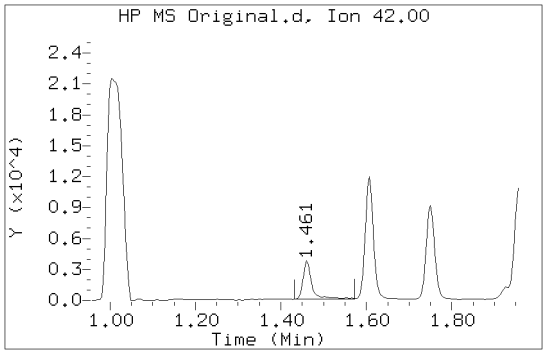
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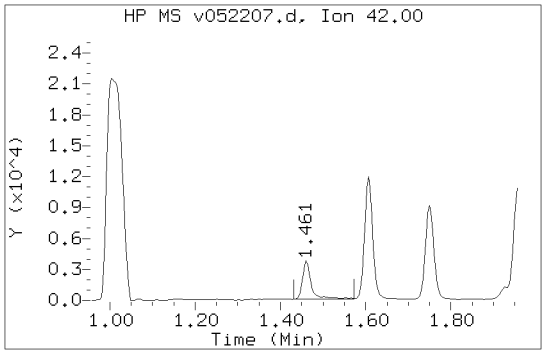
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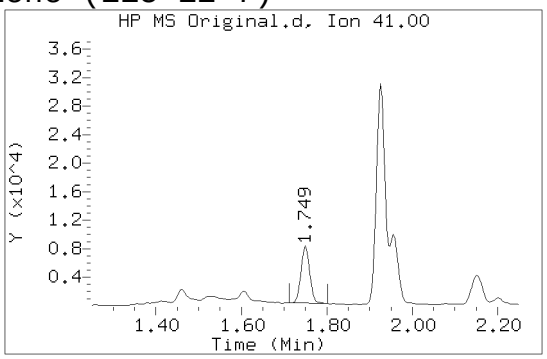
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InstruID : VOA9.i
LabSampID : VSTD020

Isobutylene (115-11-7)

Reason Code:

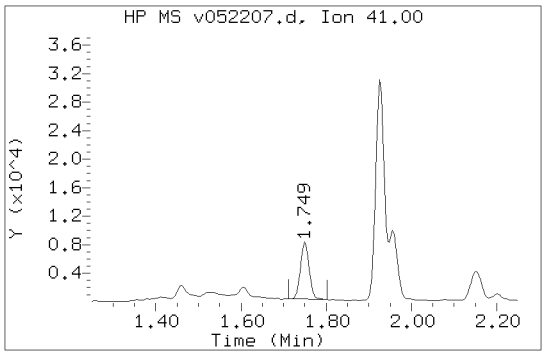
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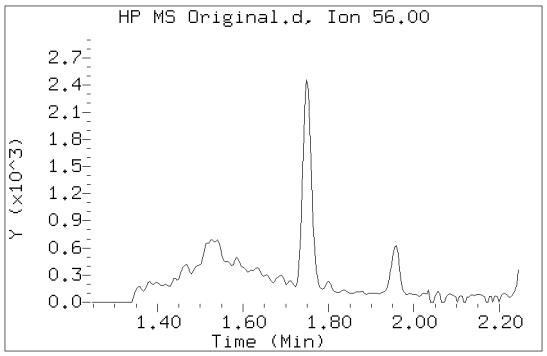
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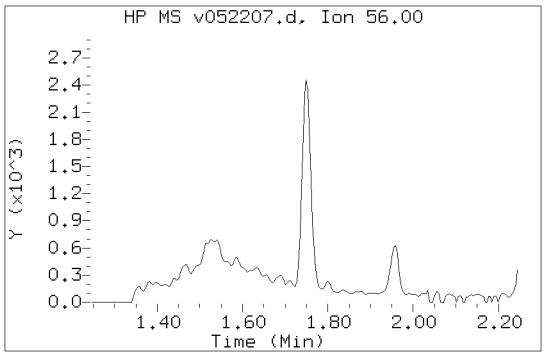
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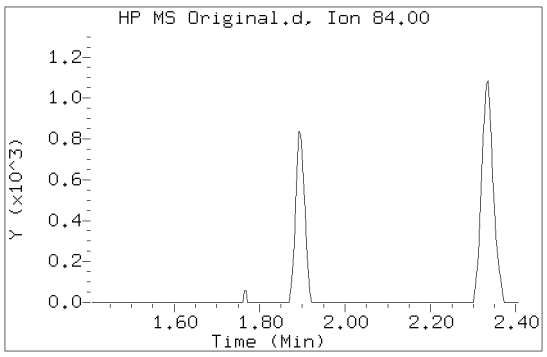
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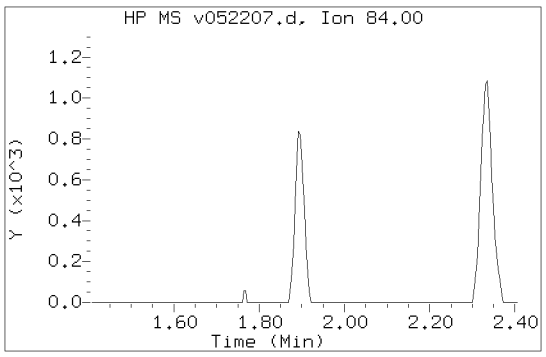
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Data File: \\nahstws005\Target\chem\voa9.i\U240523.b\V052208.D Page 1
Report Date: 23-May-2024 09:51

ALS Laboratory Group

Data file : \\nahstws005\Target\chem\voa9.i\U240523.b\V052208.D
Lab Smp Id: VSTD050 Client Smp ID: VSTD050
Inj Date : 22-MAY-2024 22:31
Operator : FT Inst ID: VOA9.i
Smp Info : VSTD050;VSTD050;1;7
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240523.b\8260C.m
Meth Date : 23-May-2024 09:51 VOA9.i Quant Type: ISTD
Cal Date : 22-MAY-2024 22:10 Cal File: V052207.D
Als bottle: 35 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7066

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	4.815	4.815	(1.000)	236594	50.0000	
2	Dichlorodifluoromethane	85	1.168	1.168	(0.243)	59029	50.0000	46.76(M)
3	Chloromethane	50	1.299	1.299	(0.270)	201352	50.0000	27.42
4	Propionitrile	54	4.336	4.336	(0.900)	125590	500.000	420.11
5	Vinyl Chloride	62	1.378	1.378	(0.286)	95440	50.0000	44.54
6	Bromomethane	94	1.618	1.618	(0.336)	32231	50.0000	27.51
7	Chloroethane	64	1.700	1.700	(0.353)	64350	50.0000	43.48
8	Trichlorofluoromethane	101	1.899	1.899	(0.394)	113583	50.0000	46.44
9	Acrolein	56	2.266	2.266	(0.471)	9239	100.000	75.04
10	Acetone	43	2.409	2.409	(0.500)	74341	100.000	87.05
11	1,1-Dichloroethene	96	2.334	2.334	(0.485)	64498	50.0000	43.31
12	Isobutyl Alcohol	43	5.284	5.284	(1.097)	249577	1000.00	874.09
13	Acetonitrile	39	2.671	2.671	(0.555)	86871	500.000	444.57
14	Allyl Chloride	41	2.675	2.675	(0.556)	214149	50.0000	42.57
15	Iodomethane	142	2.469	2.469	(0.513)	25516	100.000	57.52
16	Acrylonitrile	53	3.068	3.068	(0.637)	61198	100.000	81.68
17	Methylene Chloride	84	2.795	2.795	(0.580)	83846	50.0000	28.64
18	Methyl tert-butyl ether	73	3.083	3.083	(0.640)	203281	50.0000	42.83
19	Carbon Disulfide	76	2.521	2.521	(0.524)	408623	100.000	90.67
20	trans-1,2-Dichloroethene	96	3.061	3.061	(0.636)	73673	50.0000	43.17

21 Vinyl Acetate	43	4.339	4.339 (0.901)	96737	100.000	82.68
22 1,1-Dichloroethane	63	3.515	3.515 (0.730)	141547	50.0000	41.74

Data File: \\nahstws005\Target\chem\voa9.i\U240523.b\V052208.D Page 2
Report Date: 23-May-2024 09:51

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
23	Chloroprene	53	3.612	3.612	(0.750)	115753	50.0000	44.37(M)
24	2-Butanone	43	4.264	4.264	(0.886)	96203	100.000	87.23
25	Methacrylonitrile	41	4.493	4.493	(0.933)	54977	50.0000	44.13(a)
26	2,2-Dichloropropane	77	4.182	4.182	(0.868)	93753	50.0000	44.91
27	cis-1,2-Dichloroethene	96	4.197	4.197	(0.872)	88190	50.0000	43.06
28	Chloroform	83	4.572	4.572	(0.949)	146139	50.0000	42.90
29	Bromochloromethane	128	4.470	4.470	(0.928)	43607	50.0000	43.21
$ 30	Dibromofluoromethane	113	4.748	4.748	(0.986)	76667	50.0000	44.62
31	1,1,1-Trichloroethane	97	4.744	4.744	(0.985)	114556	50.0000	48.04
32	1,1-Dichloropropene	75	4.920	4.920	(0.887)	108766	50.0000	45.07
33	1,2-Dichloroethane	62	5.175	5.175	(0.932)	116826	50.0000	43.59
34	Carbon Tetrachloride	117	4.913	4.913	(0.885)	91306	50.0000	46.56
$ 35	1,2-Dichloroethane-d4	65	5.096	5.096	(1.058)	92816	50.0000	43.01
* 36	1,4-Difluorobenzene	114	5.550	5.550	(1.000)	341655	50.0000	
37	Benzene	78	5.138	5.138	(0.926)	340081	50.0000	43.59
38	Trichloroethene	130	5.786	5.786	(1.043)	86167	50.0000	45.50
39	Bromodichloromethane	83	6.277	6.277	(1.131)	99254	50.0000	47.71
40	Methyl Methacrylate	41	5.820	5.820	(1.209)	29014	50.0000	39.22
41	2-Chloroethylvinyl ether	63	6.573	6.573	(1.184)	68317	100.000	102.83
42	1,2-Dichloropropane	63	6.007	6.007	(1.082)	92414	50.0000	42.69
43	2-Nitropropane	43	6.506	6.506	(1.351)	17807	50.0000	43.86(M)
44	Dibromomethane	93	6.116	6.116	(1.102)	53648	50.0000	45.53
45	4-Methyl-2-Pentanone	43	6.851	6.851	(0.837)	195280	100.000	92.29
46	cis-1,3-Dichloropropene	75	6.690	6.690	(1.205)	120791	50.0000	50.34
* 47	Chlorobenzene-d5	117	8.182	8.182	(1.000)	306747	50.0000	
$ 48	Toluene-d8	98	6.918	6.918	(0.846)	283574	50.0000	45.51
49	Ethyl Methacrylate	69	7.289	7.289	(1.313)	117493	50.0000	46.61(M)
50	Toluene	91	6.978	6.978	(0.853)	351915	50.0000	45.39
51	trans-1,3-Dichloropropene	75	7.196	7.196	(1.296)	97757	50.0000	52.21
52	2-Hexanone	43	7.589	7.589	(0.928)	128281	100.000	90.53
53	1,1,2-Trichloroethane	83	7.353	7.353	(0.899)	66596	50.0000	43.50
54	1,3-Dichloropropane	76	7.496	7.496	(0.916)	144932	50.0000	45.02
55	Dibromochloromethane	129	7.691	7.691	(0.940)	77857	50.0000	51.78
56	Tetrachloroethene	164	7.454	7.454	(0.911)	68312	50.0000	46.74
57	1,2-Dibromoethane	107	7.784	7.784	(0.951)	78506	50.0000	47.85
58	1-Chlorohexane	55	8.193	8.193	(1.476)	71175	50.0000	26.00
59	Chlorobenzene	112	8.208	8.208	(1.003)	224627	50.0000	42.56
60	1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	77170	50.0000	48.22
61	Ethylbenzene	106	8.305	8.305	(1.015)	114025	50.0000	45.88
62	m,p-Xylenes	106	8.407	8.407	(1.027)	289961	100.000	95.02
63	o-Xylene	106	8.744	8.744	(1.069)	143189	50.0000	47.94
64	Styrene	104	8.759	8.759	(1.071)	247125	50.0000	48.77
66	Bromoform	173	8.916	8.916	(1.090)	47869	50.0000	51.13
67	Isopropylbenzene	105	9.059	9.059	(1.107)	357215	50.0000	48.22
68	1,1,2,2-Tetrachloroethane	83	9.325	9.325	(0.917)	108865	50.0000	42.50
$ 69	4-Bromofluorobenzene	95	9.190	9.190	(1.123)	106600	50.0000	44.82
* 70	1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	166868	50.0000	
71	1,2,3-Trichloropropane	75	9.359	9.359	(0.920)	110579	50.0000	43.28
72	trans-1,4-Dichloro-2-butene	53	9.374	9.374	(1.146)	23825	50.0000	43.51
73	n-Propylbenzene	91	9.411	9.411	(0.926)	419609	50.0000	48.68
74	Bromobenzene	156	9.314	9.314	(0.916)	97663	50.0000	44.50
75	1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	294254	50.0000	49.47

76	2-Chlorotoluene	91	9.479	9.479 (0.932)	255439	50.0000	45.74
77	4-Chlorotoluene	91	9.572	9.572 (0.941)	296111	50.0000	46.55

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
78	tert-Butylbenzene	119	9.835	9.835	(0.967)	254668	50.0000	48.81
79	1,2,4-Trimethylbenzene	105	9.876	9.876	(0.971)	289810	50.0000	47.49
81	sec-Butylbenzene	105	10.019	10.019	(0.985)	340659	50.0000	49.13
82	p-Isopropyltoluene	119	10.142	10.142	(0.997)	303056	50.0000	50.20
83	1,3-Dichlorobenzene	146	10.112	10.112	(0.994)	173337	50.0000	43.93(M)
84	1,4-Dichlorobenzene	146	10.187	10.187	(1.002)	180977	50.0000	41.08
86	Benzyl Chloride	91	10.307	10.307	(1.260)	89212	50.0000	26.62
87	n-Butylbenzene	91	10.491	10.491	(1.032)	268963	50.0000	45.90
88	1,2-Dichlorobenzene	146	10.502	10.502	(1.033)	173036	50.0000	43.31
89	1,2-Dibromo-3-Chloropropane	155	11.166	11.166	(1.098)	13422	50.0000	47.49
90	1,2,4-Trichlorobenzene	180	11.855	11.855	(1.166)	115032	50.0000	45.92
91	Hexachlorobutadiene	225	11.994	11.994	(1.180)	49023	50.0000	44.53
92	Naphthalene	128	12.065	12.065	(1.187)	270352	50.0000	50.87
93	1,2,3-Trichlorobenzene	180	12.268	12.268	(1.206)	106158	50.0000	45.51
146	Methyl acetate	43	2.716	2.716	(0.564)	89430	50.0000	37.92
138	Freon TF	101	2.337	2.337	(0.485)	123931	50.0000	48.64
141	Cyclohexane	56	4.785	4.785	(0.994)	125569	50.0000	29.28
142	Tetrahydrofuran	42	4.542	4.542	(0.943)	31799	100.000	70.95
147	Methylcyclohexane	55	5.944	5.944	(1.071)	201212	50.0000	49.05
135	1,4-Dioxane	88	6.165	6.165	(1.280)	16410	1000.00	612.53(M)
132	n-Butanol	56	5.820	5.820	(1.209)	39842	1000.00	894.06
136	n-Hexane	57	3.342	3.342	(0.694)	81645	50.0000	44.12
139	Diethyl ether	59	2.146	2.146	(0.446)	56732	50.0000	43.27
148	Tert-butyl alcohol	59	2.971	2.971	(0.617)	110717	1000.00	786.83
149	Isopropyl alcohol	45	2.566	2.566	(0.533)	91636	1000.00	807.96
152	Amyl alcohol	42	7.394	7.394	(0.904)	45025	1000.00	836.77
156	Diisopropyl ether	45	3.623	3.623	(0.752)	270843	50.0000	43.62
162	Butyl acrylate	55	8.729	8.729	(1.067)	146428	50.0000	45.13
187	n-Amyl acetate	43	8.928	8.928	(1.091)	146447	50.0000	42.19
164	Dicyclopentadiene	66	10.198	10.198	(1.003)	365706	50.0000	42.33
166	1,2,3-Trimethylbenzene	105	10.232	10.232	(1.006)	276950	50.0000	48.95
167	Ethanol	45	2.086	2.086	(0.433)	17713	1000.00	765.25
172	tert-Butyl formate	59	5.239	5.239	(1.088)	98001	100.000	71.93
173	3,3-Dimethyl-1-butanol	57	7.781	7.781	(0.951)	172267	1000.00	849.73
174	tert-Amyl methyl ether	73	5.284	5.284	(1.097)	234456	50.0000	44.80
175	tert-Butyl ethyl ether	59	4.051	4.051	(0.841)	235572	50.0000	44.78
176	tert-Amyl alcohol	59	5.239	5.239	(1.088)	98001	1000.00	722.78
151	4-Methyl-2-pentanol	45	7.215	7.215	(1.300)	494612	1000.00	968.10
140	1,3-Butadiene	54	1.404	1.404	(0.292)	42015	50.0000	44.94
182	Epichlorohydrin	57	6.630	6.630	(1.195)	23006	200.000	185.00
M 94	1,2-Dichloroethylene (total)	96				161863	100.000	(a)
145	alpha-Methylstyrene	118	9.752	9.752	(0.959)	121144	50.0000	49.55
130	Ethyl Acetate	43	4.339	4.339	(0.901)	96737	50.0000	41.89
131	Methyl Acrylate	55	4.369	4.369	(0.907)	100487	50.0000	44.32
189	n-Butyl acetate	43	7.702	7.702	(0.941)	141944	50.0000	44.88
134	Cyclohexanone	55	9.149	9.149	(0.900)	91643	1000.00	949.97
185	Isoprene	39	2.158	2.158	(0.448)	19695	50.0000	48.97
188	Isopropyl acetate	43	5.284	5.284	(0.952)	246529	50.0000	43.08
150	Allyl alcohol	57	3.342	3.342	(0.694)	81645	1000.00	882.59
194	Acetaldehyde	44	1.464	1.464	(0.304)	60209	200.000	188.79(M)
195	Methyl Amyl Ketone	43	8.864	8.864	(1.083)	183664	50.0000	47.75
200	Dimethyl Disulfide	94	6.742	6.742	(0.824)	47587	50.0000	49.09

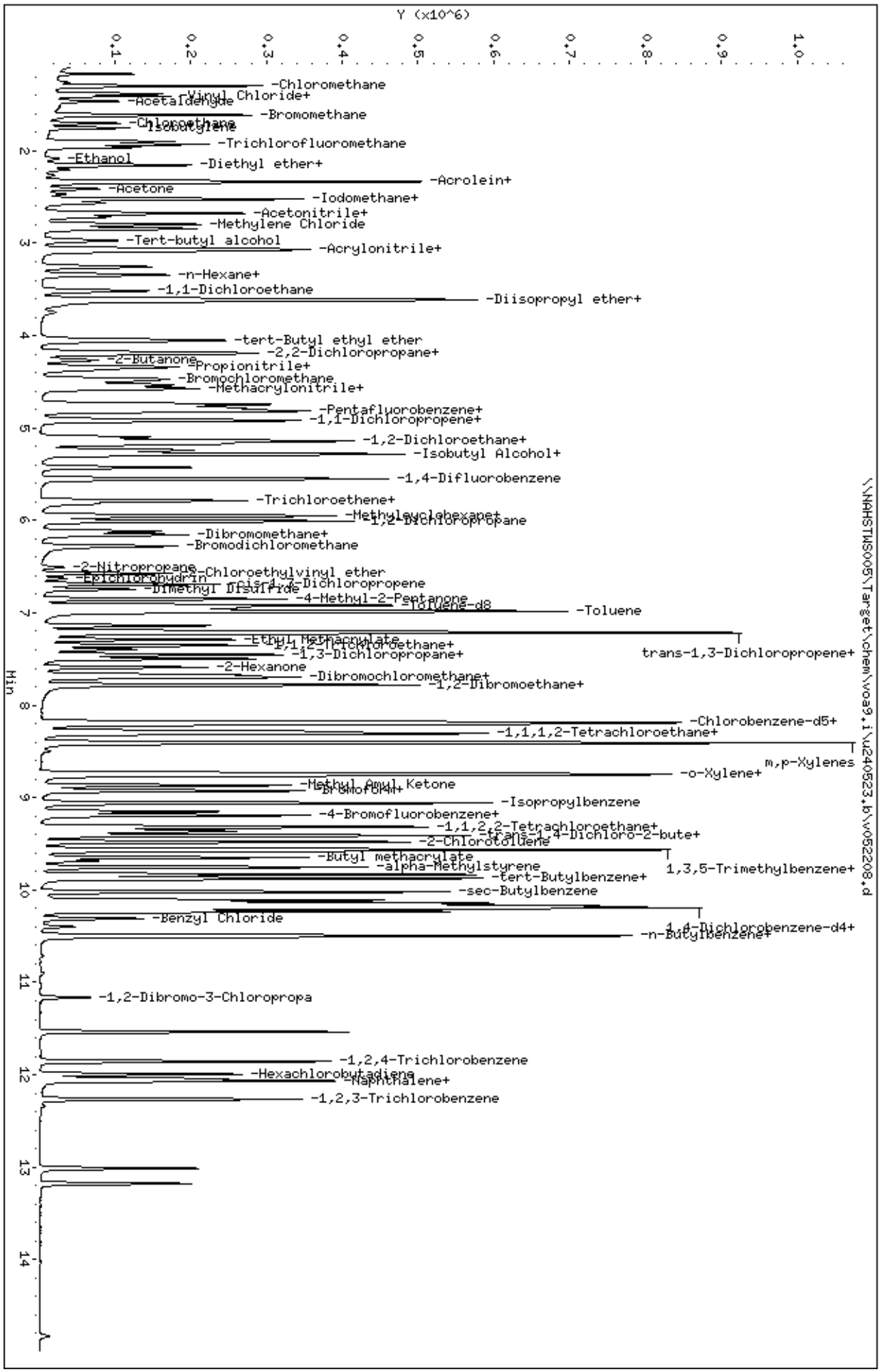
202 Isobutylene	41	1.753	1.753 (0.364)	28123	50.0000	52.00(M)
133 Ethyl Acrylate	55	5.944	5.944 (1.234)	201212	50.0000	48.23

Data File: \\nahstws005\Target\chem\voa9.i\U240523.b\V052208.D Page 4
Report Date: 23-May-2024 09:51

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
163 Butyl methacrylate	41	9.647	9.647	(0.949)	101384	50.0000	44.65
159 Propylene oxide	43	2.203	2.203	(0.457)	12428	100.000	69.44
203 2-Ethylhexyl Acrylate	55	12.039	12.039	(1.184)	82852	50.0000	51.11

QC Flag Legend

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



Data File: \\NAHSTWS005\Target\chem\voa9.i\u240523.b\v052208.d
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Column phase: DB624

Instrument: VOA9.i
Operator: FT
Column diameter: 0.18

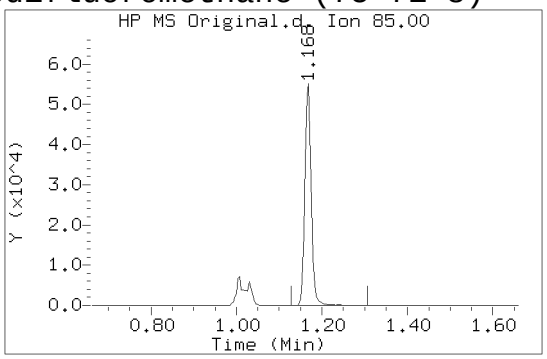
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LabSampID : VSTD050

Dichlorodifluoromethane (75-71-8)

Reason Code:

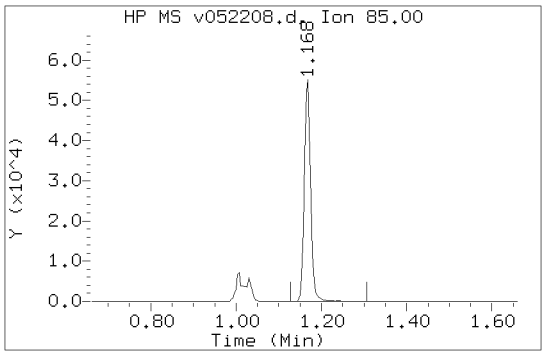
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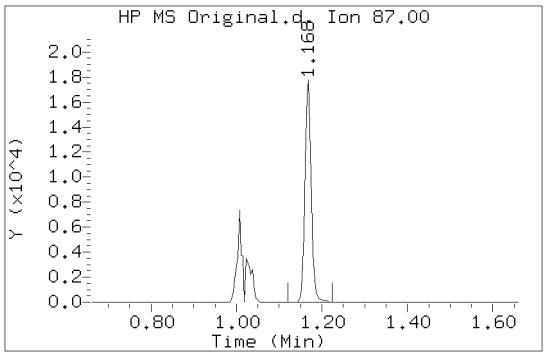
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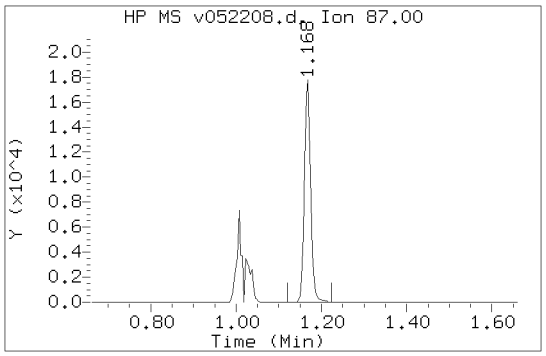
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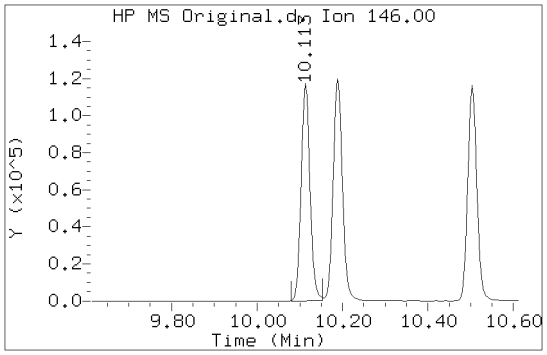


1,3-Dichlorobenzene (541-73-1)

Reason Code:

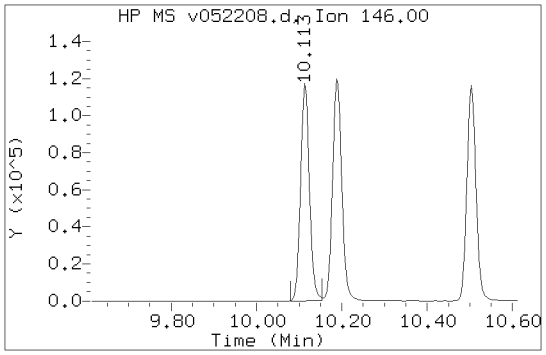
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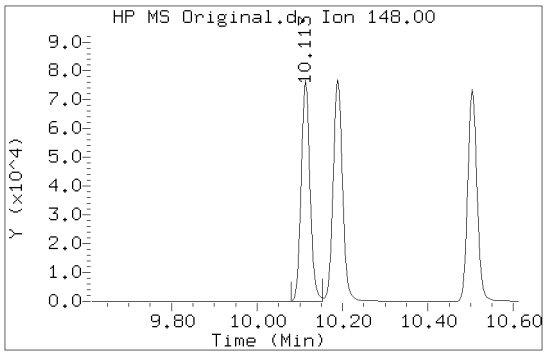
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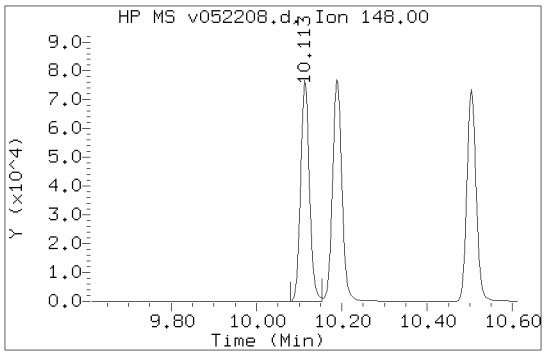
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23-May-2024
09:51
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AFTER

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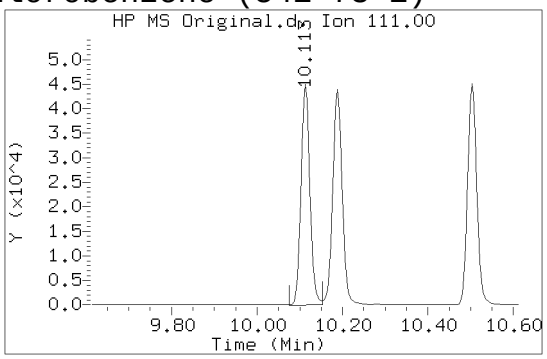


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Inj Date : 22-MAY-2024 22:31
InstruID : VOA9.i
LabSampID : VSTD050

1,3-Dichlorobenzene (541-73-1)

BEFORE

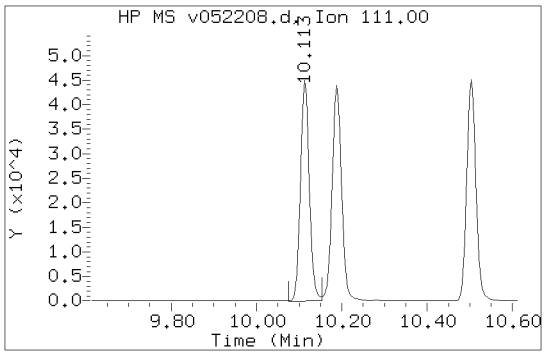
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AFTER

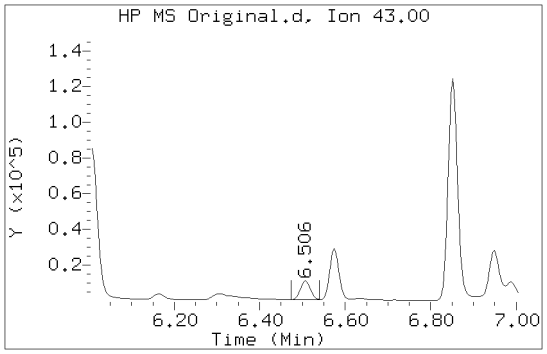
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2-Nitropropane (79-46-9)

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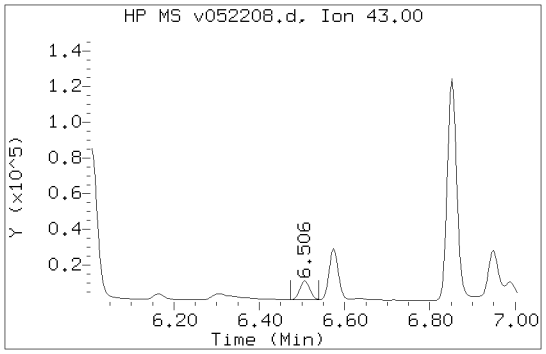
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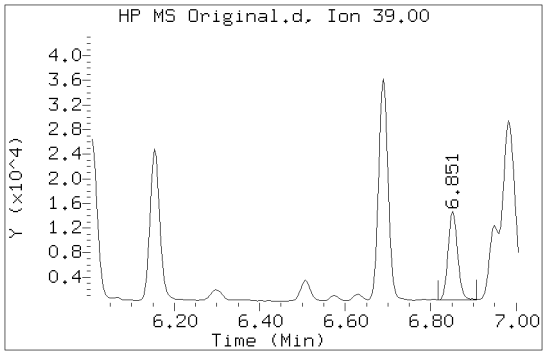
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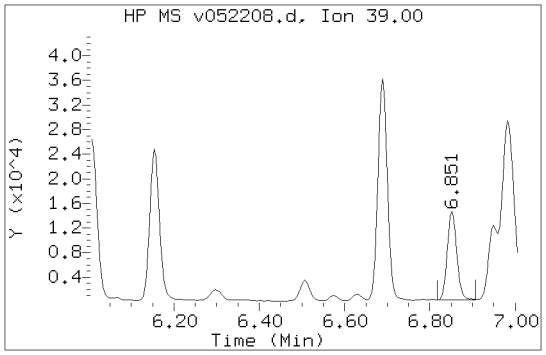
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AFTER

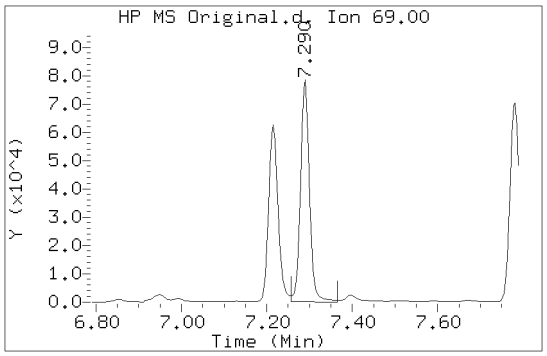
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09:51
firat
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Ethyl Methacrylate (97-63-2)

BEFORE

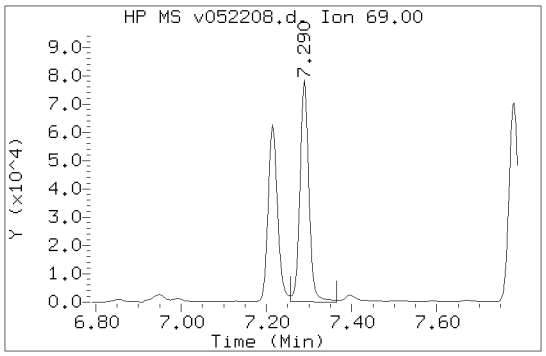
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23-May-2024
09:51
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Reason Code:

AFTER

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firat
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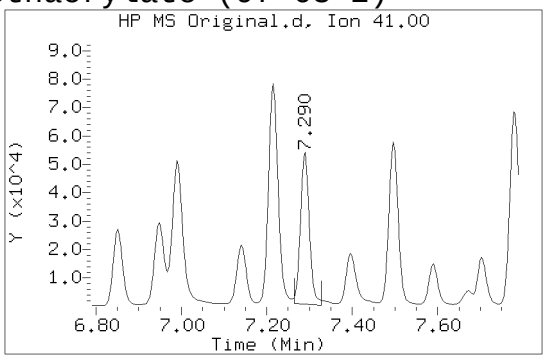
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InstruID : VOA9.i
LabSampID : VSTD050

Ethyl Methacrylate (97-63-2)

Reason Code:

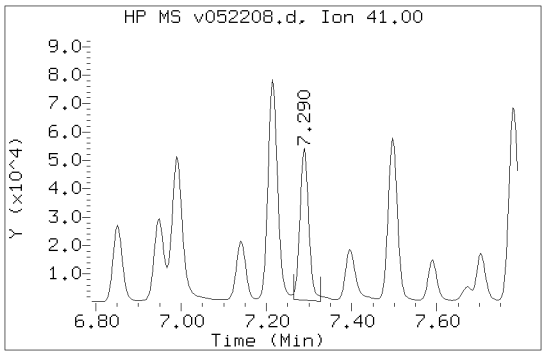
BEFORE

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53563
23-May-2024
09:51
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tastan



AFTER

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HEIGHT
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23-May-2024
09:51
firat
tastan

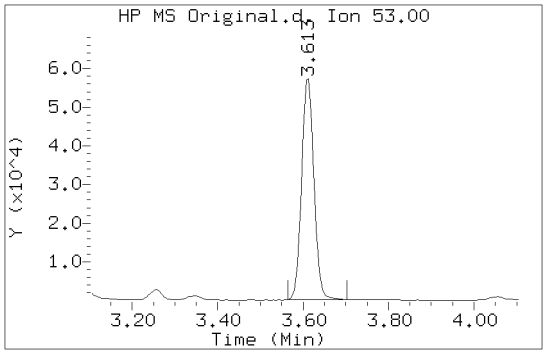


Chloroprene (126-99-8)

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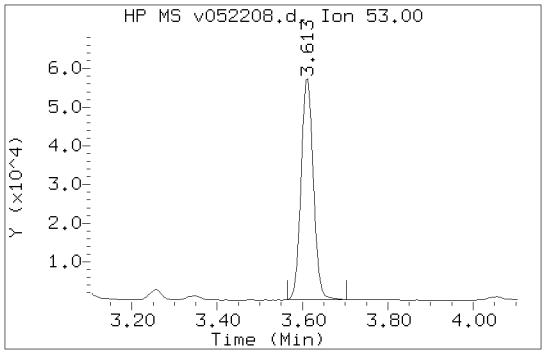
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09:51
firat
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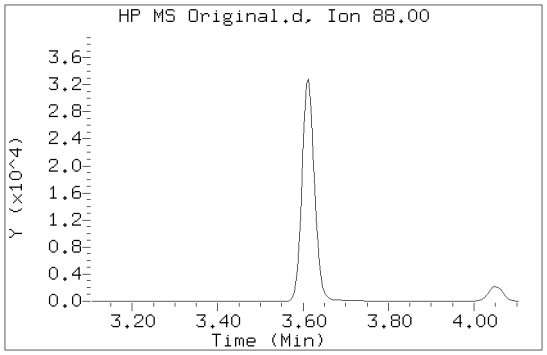
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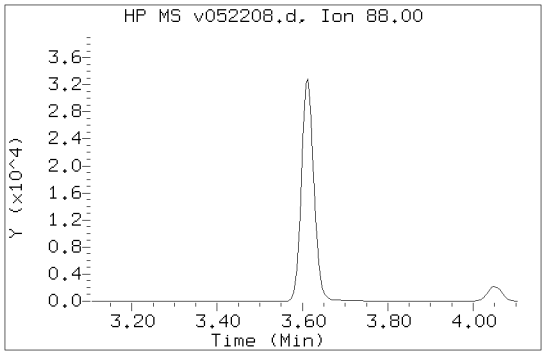
BEFORE

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23-May-2024
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AFTER

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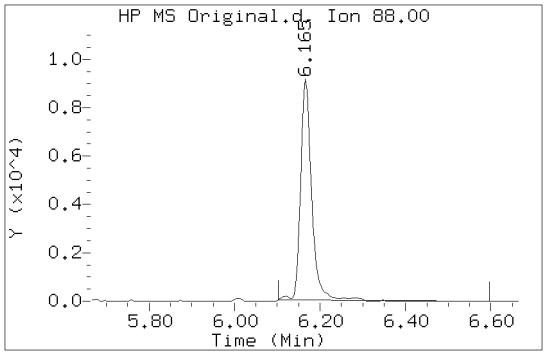


1,4-Dioxane ()

Reason Code:

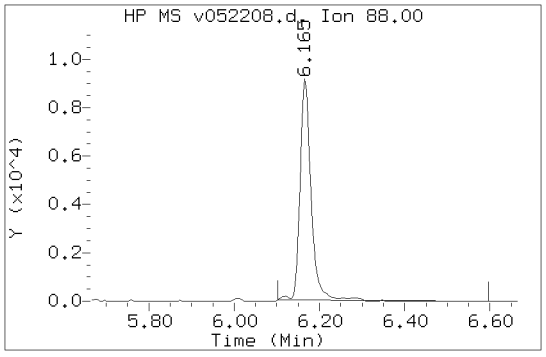
BEFORE

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AREA
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9132
23-May-2024
09:51
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AFTER

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16410
HEIGHT
9132
23-May-2024
09:51
firat
tastan



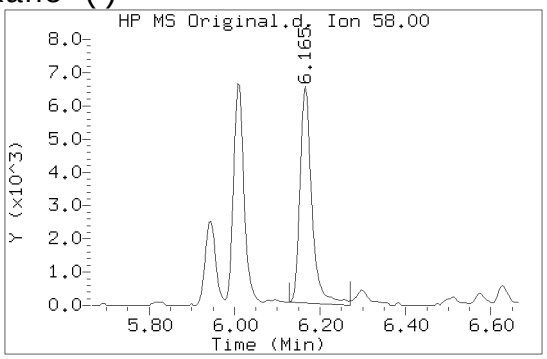
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Inj Date : 22-MAY-2024 22:31
InstruID : VOA9.i
LabSampID : VSTD050

1,4-Dioxane ()

Reason Code:

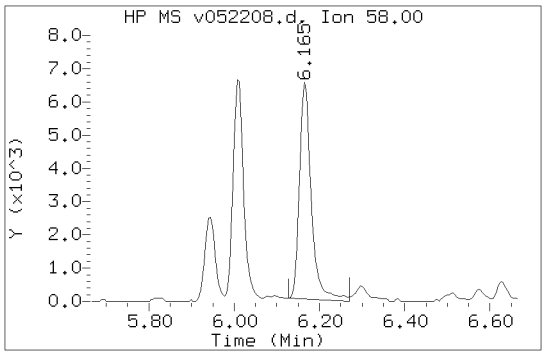
BEFORE

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58
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12825
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6530
23-May-2024
09:51
firat
tastan



AFTER

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12825
HEIGHT
6530
23-May-2024
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firat
tastan

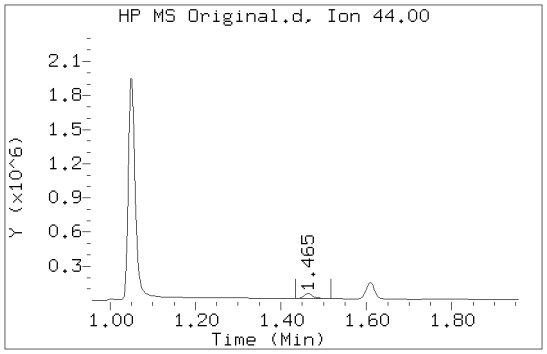


Acetaldehyde (75-07-0)

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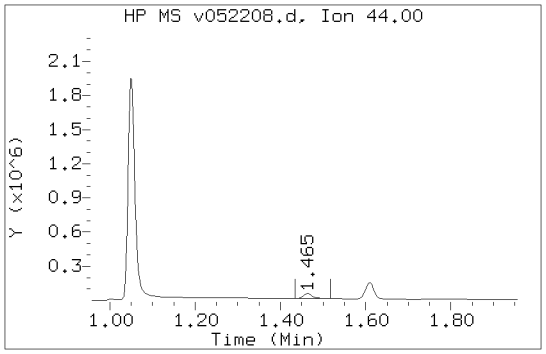
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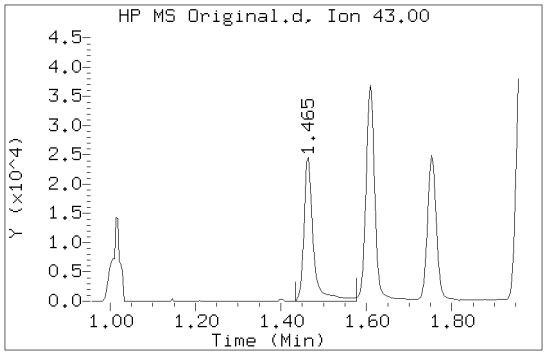
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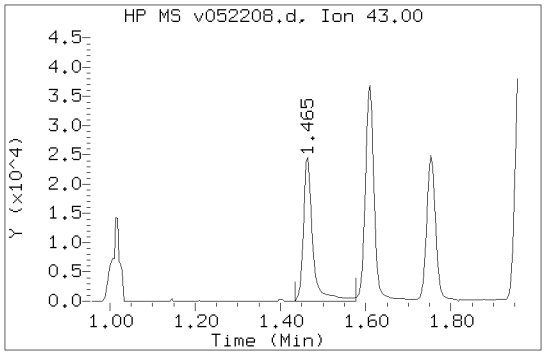
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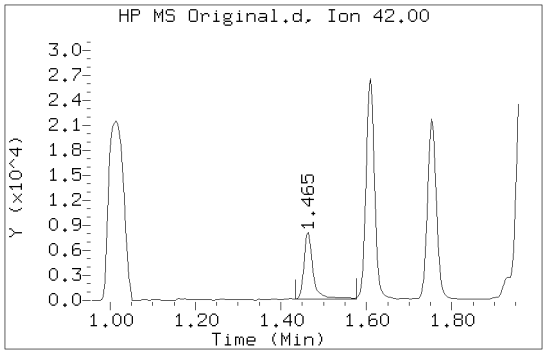
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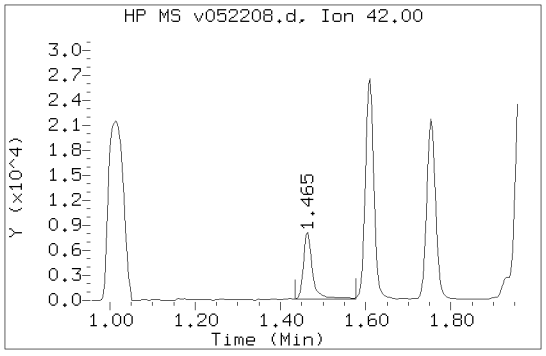
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AFTER

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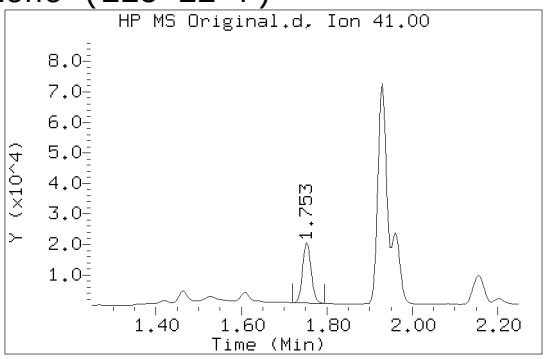


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LabSampID : VSTD050

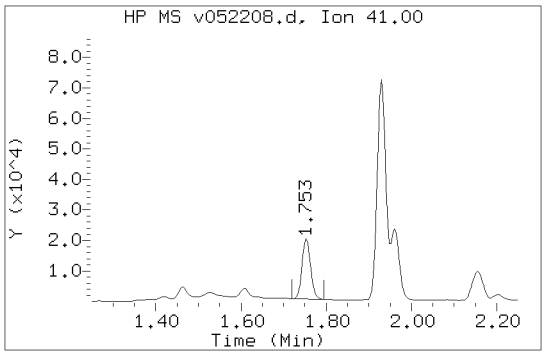
Isobutylene (115-11-7)

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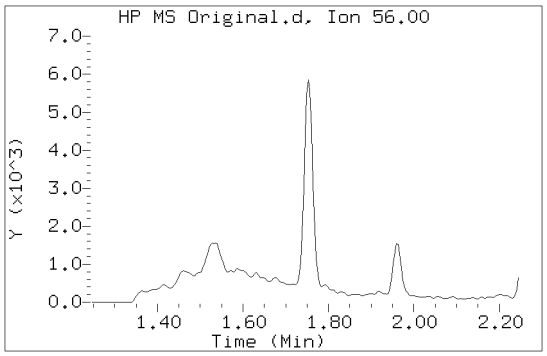
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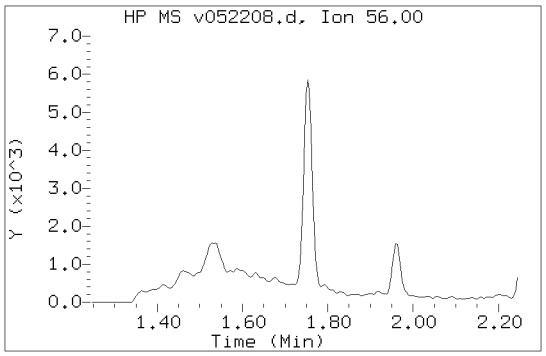
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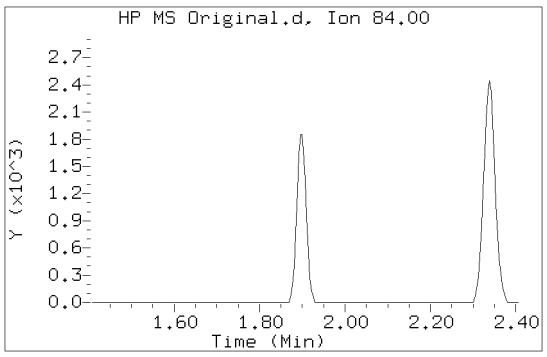
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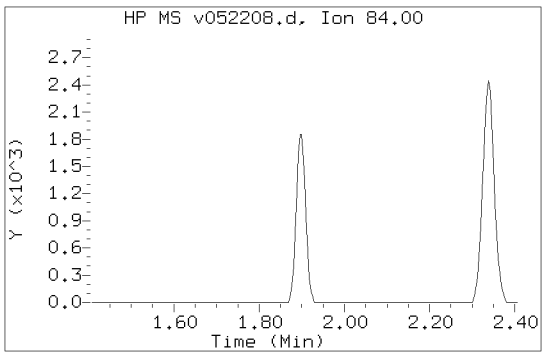
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BEFORE
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23-May-2024
09:51
firat
tastan



AFTER
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84
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HEIGHT
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23-May-2024
09:51
firat
tastan



Data File: \\nahstws005\Target\chem\voa9.i\U240523.b\V052209.D Page 1
Report Date: 23-May-2024 09:51

ALS Laboratory Group

Data file : \\nahstws005\Target\chem\voa9.i\U240523.b\V052209.D
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Inj Date : 22-MAY-2024 22:53
Operator : FT Inst ID: VOA9.i
Smp Info : VSTD100;VSTD100;1;8
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240523.b\8260C.m
Meth Date : 23-May-2024 09:51 VOA9.i Quant Type: ISTD
Cal Date : 22-MAY-2024 22:31 Cal File: V052208.D
Als bottle: 36 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7066

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	4.811	4.811	(1.000)	244638	50.0000	
2 Dichlorodifluoromethane	85	1.160	1.160	(0.241)	124883	100.000	95.68(M)
3 Chloromethane	50	1.291	1.291	(0.268)	415448	100.000	54.71
4 Propionitrile	54	4.335	4.335	(0.901)	247974	1000.00	802.23
5 Vinyl Chloride	62	1.374	1.374	(0.286)	205327	100.000	92.67
6 Bromomethane	94	1.606	1.606	(0.334)	65774	100.000	54.29
7 Chloroethane	64	1.692	1.692	(0.352)	137646	100.000	89.95
8 Trichlorofluoromethane	101	1.891	1.891	(0.393)	242118	100.000	95.75
9 Acrolein	56	2.258	2.258	(0.469)	16522	200.000	129.79
10 Acetone	43	2.405	2.405	(0.500)	142776	200.000	161.70
11 1,1-Dichloroethene	96	2.326	2.326	(0.483)	140549	100.000	91.28
12 Isobutyl Alcohol	43	5.280	5.280	(1.097)	519730	2000.00	1760.39
13 Acetonitrile	39	2.667	2.667	(0.554)	175761	1000.00	869.90
14 Allyl Chloride	41	2.667	2.667	(0.554)	428574	100.000	82.39
15 Iodomethane	142	2.461	2.461	(0.512)	74208	200.000	161.79
16 Acrylonitrile	53	3.061	3.061	(0.636)	120448	200.000	155.48
17 Methylene Chloride	84	2.791	2.791	(0.580)	174302	100.000	57.59
18 Methyl tert-butyl ether	73	3.076	3.076	(0.639)	403076	100.000	82.14
19 Carbon Disulfide	76	2.517	2.517	(0.523)	880167	200.000	188.89
20 trans-1,2-Dichloroethene	96	3.053	3.053	(0.635)	155751	100.000	88.26

21 Vinyl Acetate	43	4.335	4.335 (0.901)	197614	200.000	163.36
22 1,1-Dichloroethane	63	3.511	3.511 (0.730)	296135	100.000	84.45

Data File: \\nahstws005\Target\chem\voa9.i\U240523.b\V052209.D Page 2
Report Date: 23-May-2024 09:51

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
23	Chloroprene	53	3.604	3.604	(0.749)	249311	100.000	92.43(M)
24	2-Butanone	43	4.260	4.260	(0.885)	197983	200.000	173.62
25	Methacrylonitrile	41	4.489	4.489	(0.933)	114272	100.000	88.72(a)
26	2,2-Dichloropropane	77	4.178	4.178	(0.868)	208299	100.000	96.51
27	cis-1,2-Dichloroethene	96	4.193	4.193	(0.871)	185945	100.000	87.81
28	Chloroform	83	4.568	4.568	(0.949)	305959	100.000	86.87
29	Bromochloromethane	128	4.466	4.466	(0.928)	90371	100.000	86.61
$ 30	Dibromofluoromethane	113	4.744	4.744	(0.986)	155928	100.000	87.77
31	1,1,1-Trichloroethane	97	4.740	4.740	(0.985)	245190	100.000	99.44
32	1,1-Dichloropropene	75	4.920	4.920	(0.887)	232450	100.000	93.19
33	1,2-Dichloroethane	62	5.171	5.171	(0.932)	238700	100.000	86.16
34	Carbon Tetrachloride	117	4.909	4.909	(0.885)	204530	100.000	100.90
$ 35	1,2-Dichloroethane-d4	65	5.092	5.092	(1.058)	186459	100.000	83.56
* 36	1,4-Difluorobenzene	114	5.550	5.550	(1.000)	353172	50.0000	
37	Benzene	78	5.137	5.137	(0.926)	712365	100.000	88.33
38	Trichloroethene	130	5.786	5.786	(1.043)	177670	100.000	90.75
39	Bromodichloromethane	83	6.277	6.277	(1.131)	219113	100.000	101.89
40	Methyl Methacrylate	41	5.820	5.820	(1.210)	61390	100.000	80.26
41	2-Chloroethylvinyl ether	63	6.573	6.573	(1.184)	152634	200.000	222.25
42	1,2-Dichloropropane	63	6.007	6.007	(1.082)	192490	100.000	86.03
43	2-Nitropropane	43	6.506	6.506	(1.352)	39659	100.000	94.47(M)
44	Dibromomethane	93	6.116	6.116	(1.102)	109064	100.000	89.55
45	4-Methyl-2-Pentanone	43	6.851	6.851	(0.837)	413580	200.000	187.01
46	cis-1,3-Dichloropropene	75	6.689	6.689	(1.205)	270110	100.000	108.90
* 47	Chlorobenzene-d5	117	8.181	8.181	(1.000)	320606	50.0000	
$ 48	Toluene-d8	98	6.918	6.918	(0.846)	582672	100.000	89.46
49	Ethyl Methacrylate	69	7.289	7.289	(1.313)	244348	100.000	93.78(M)
50	Toluene	91	6.978	6.978	(0.853)	729405	100.000	90.02
51	trans-1,3-Dichloropropene	75	7.195	7.195	(1.296)	223156	100.000	115.30
52	2-Hexanone	43	7.589	7.589	(0.928)	278725	200.000	188.20
53	1,1,2-Trichloroethane	83	7.353	7.353	(0.899)	137987	100.000	86.23
54	1,3-Dichloropropane	76	7.495	7.495	(0.916)	297425	100.000	88.39
55	Dibromochloromethane	129	7.690	7.690	(0.940)	173114	100.000	110.17
56	Tetrachloroethene	164	7.454	7.454	(0.911)	141354	100.000	92.54
57	1,2-Dibromoethane	107	7.784	7.784	(0.951)	161828	100.000	94.37
58	1-Chlorohexane	55	8.193	8.193	(1.476)	154985	100.000	54.78
59	Chlorobenzene	112	8.208	8.208	(1.003)	465190	100.000	84.33
60	1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	165486	100.000	98.93
61	Ethylbenzene	106	8.305	8.305	(1.015)	238607	100.000	91.87
62	m,p-Xylenes	106	8.406	8.406	(1.027)	602773	200.000	189.00
63	o-Xylene	106	8.744	8.744	(1.069)	294378	100.000	94.30
64	Styrene	104	8.759	8.759	(1.071)	516455	100.000	97.53
66	Bromoform	173	8.916	8.916	(1.090)	111672	100.000	114.13
67	Isopropylbenzene	105	9.059	9.059	(1.107)	752303	100.000	97.18
68	1,1,2,2-Tetrachloroethane	83	9.325	9.325	(0.917)	229364	100.000	86.30
$ 69	4-Bromofluorobenzene	95	9.190	9.190	(1.123)	213520	100.000	85.89
* 70	1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	173149	50.0000	
71	1,2,3-Trichloropropane	75	9.358	9.358	(0.920)	238259	100.000	89.87
72	trans-1,4-Dichloro-2-butene	53	9.373	9.373	(1.146)	51909	100.000	90.70
73	n-Propylbenzene	91	9.411	9.411	(0.926)	878233	100.000	98.20
74	Bromobenzene	156	9.314	9.314	(0.916)	202370	100.000	88.86
75	1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	623339	100.000	100.99

76	2-Chlorotoluene	91	9.478	9.478 (0.932)	530900	100.000	91.61
77	4-Chlorotoluene	91	9.572	9.572 (0.941)	608997	100.000	92.28

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
78	tert-Butylbenzene	119	9.835	9.835	(0.967)	527600	100.000	97.45
79	1,2,4-Trimethylbenzene	105	9.876	9.876	(0.971)	610547	100.000	96.43
81	sec-Butylbenzene	105	10.018	10.018	(0.985)	724626	100.000	100.72
82	p-Isopropyltoluene	119	10.146	10.146	(0.998)	643268	100.000	102.69
83	1,3-Dichlorobenzene	146	10.112	10.112	(0.994)	357696	100.000	87.36(M)
84	1,4-Dichlorobenzene	146	10.187	10.187	(1.002)	370133	100.000	80.98
86	Benzyl Chloride	91	10.311	10.311	(1.260)	210396	100.000	60.08
87	n-Butylbenzene	91	10.491	10.491	(1.032)	572951	100.000	94.23
88	1,2-Dichlorobenzene	146	10.502	10.502	(1.033)	351398	100.000	84.76
89	1,2-Dibromo-3-Chloropropane	155	11.165	11.165	(1.098)	30092	100.000	102.61
90	1,2,4-Trichlorobenzene	180	11.855	11.855	(1.166)	245972	100.000	94.63
91	Hexachlorobutadiene	225	11.994	11.994	(1.180)	104037	100.000	91.09
92	Naphthalene	128	12.065	12.065	(1.187)	569634	100.000	103.31
93	1,2,3-Trichlorobenzene	180	12.267	12.267	(1.206)	222501	100.000	91.92
146	Methyl acetate	43	2.708	2.708	(0.563)	184062	100.000	75.49
138	Freon TF	101	2.330	2.330	(0.484)	259877	100.000	98.65
141	Cyclohexane	56	4.781	4.781	(0.994)	262264	100.000	59.14
142	Tetrahydrofuran	42	4.538	4.538	(0.943)	62998	200.000	135.94
147	Methylcyclohexane	55	5.943	5.943	(1.071)	418747	100.000	98.76
135	1,4-Dioxane	88	6.165	6.165	(1.281)	34583	2000.00	1248.42(M)
132	n-Butanol	56	5.820	5.820	(1.210)	84580	2000.00	1835.59
136	n-Hexane	57	3.338	3.338	(0.694)	173931	100.000	90.92
139	Diethyl ether	59	2.142	2.142	(0.445)	112971	100.000	83.33
148	Tert-butyl alcohol	59	2.967	2.967	(0.617)	224546	2000.00	1543.30
149	Isopropyl alcohol	45	2.562	2.562	(0.533)	182354	2000.00	1554.96
152	Amyl alcohol	42	7.394	7.394	(0.904)	96345	2000.00	1713.14
156	Diisopropyl ether	45	3.619	3.619	(0.752)	542852	100.000	84.56
162	Butyl acrylate	55	8.729	8.729	(1.067)	324941	100.000	95.82
187	n-Amyl acetate	43	8.927	8.927	(1.091)	324241	100.000	89.39
164	Dicyclopentadiene	66	10.198	10.198	(1.003)	734991	100.000	81.99
166	1,2,3-Trimethylbenzene	105	10.232	10.232	(1.006)	551693	100.000	93.97
167	Ethanol	45	2.082	2.082	(0.433)	34812	2000.00	1454.52
172	tert-Butyl formate	59	5.242	5.242	(1.090)	245253	200.000	174.10
173	3,3-Dimethyl-1-butanol	57	7.780	7.780	(0.951)	356876	2000.00	1684.24
174	tert-Amyl methyl ether	73	5.284	5.284	(1.098)	477690	100.000	88.29
175	tert-Butyl ethyl ether	59	4.047	4.047	(0.841)	479003	100.000	88.07
176	tert-Amyl alcohol	59	5.242	5.242	(1.090)	245253	2000.00	1749.34
151	4-Methyl-2-pentanol	45	7.214	7.214	(1.300)	1060087	2000.00	2007.25
140	1,3-Butadiene	54	1.400	1.400	(0.291)	91939	100.000	95.11
182	Epichlorohydrin	57	6.629	6.629	(1.195)	48090	400.000	374.11
M 94	1,2-Dichloroethylene (total)	96				341696	200.000	(a)
145	alpha-Methylstyrene	118	9.752	9.752	(0.959)	257528	100.000	101.52
130	Ethyl Acetate	43	4.335	4.335	(0.901)	197614	100.000	82.77
131	Methyl Acrylate	55	4.365	4.365	(0.907)	201900	100.000	86.12
189	n-Butyl acetate	43	7.702	7.702	(0.941)	313148	100.000	94.73
134	Cyclohexanone	55	9.149	9.149	(0.900)	177267	2000.00	1770.89
185	Isoprene	39	2.154	2.154	(0.448)	41413	100.000	99.58
188	Isopropyl acetate	43	5.280	5.280	(0.951)	520021	100.000	87.92
150	Allyl alcohol	57	3.338	3.338	(0.694)	173931	2000.00	1818.40
194	Acetaldehyde	44	1.456	1.456	(0.303)	116437	400.000	353.10(M)
195	Methyl Amyl Ketone	43	8.864	8.864	(1.083)	378859	100.000	94.24
200	Dimethyl Disulfide	94	6.746	6.746	(0.825)	138053	100.000	136.28

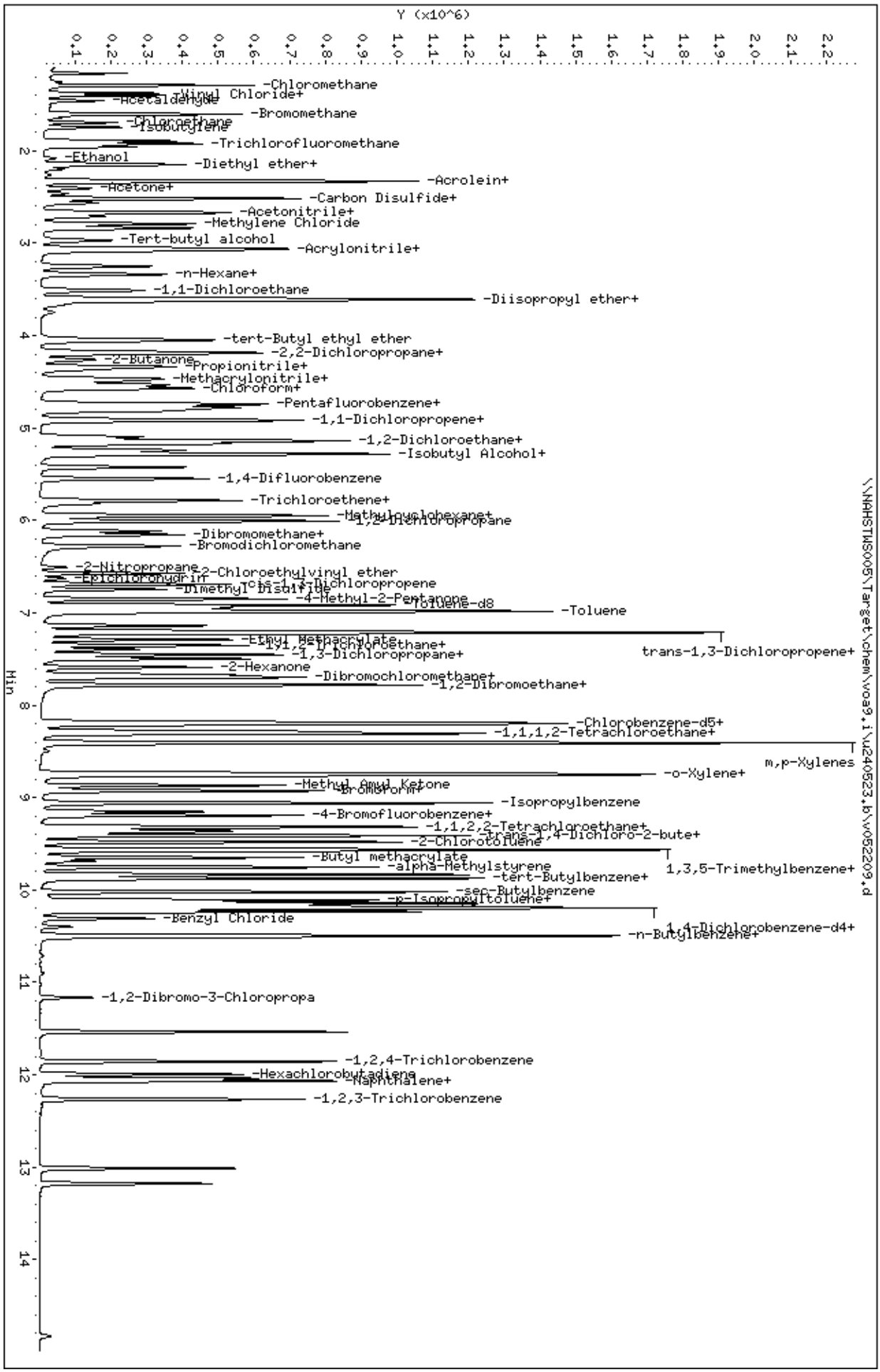
202 Isobutylene	41	1.745	1.745 (0.363)	59172	100.000	105.81(M)
133 Ethyl Acrylate	55	5.943	5.943 (1.235)	418747	100.000	97.08

Data File: \\nahstws005\Target\chem\voa9.i\U240523.b\V052209.D Page 4
Report Date: 23-May-2024 09:51

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
163 Butyl methacrylate	41	9.647	9.647	(0.949)	184758	100.000	78.43
159 Propylene oxide	43	2.198	2.198	(0.457)	24845	200.000	134.26
203 2-Ethylhexyl Acrylate	55	12.039	12.039	(1.184)	192225	100.000	114.29

QC Flag Legend

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



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Column phase: DB624

Instrument: WOA9,i
Operator: FT
Column diameter: 0.18

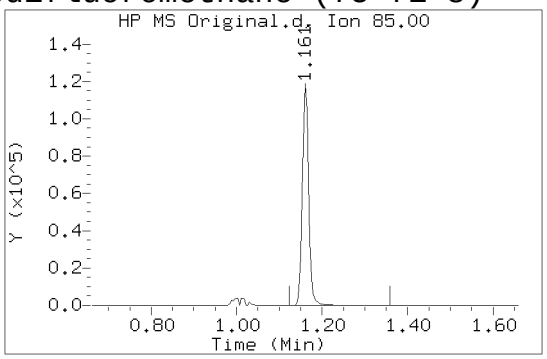
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LabSampID : VSTD100

Dichlorodifluoromethane (75-71-8)

Reason Code:

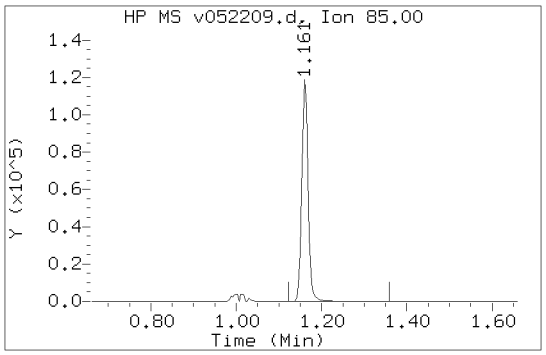
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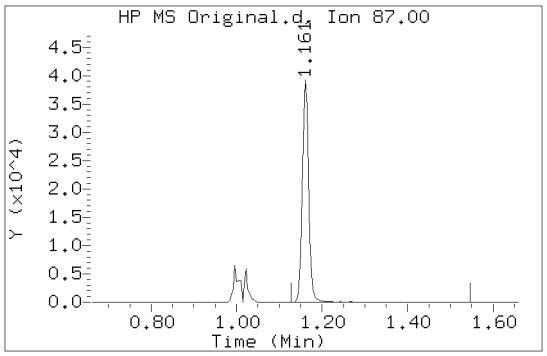
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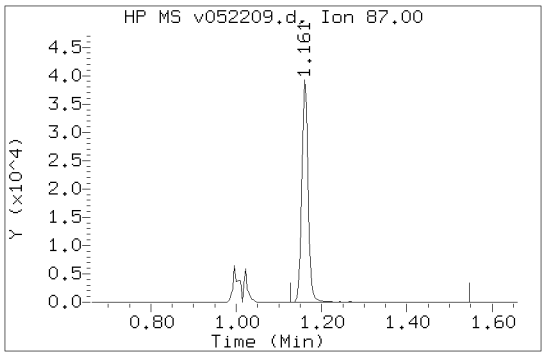
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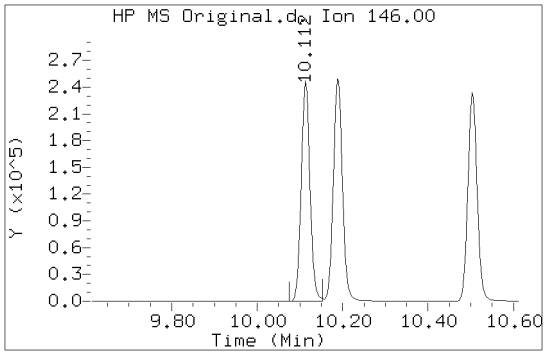


1,3-Dichlorobenzene (541-73-1)

Reason Code:

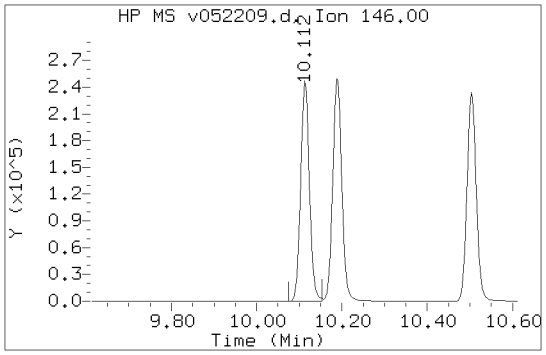
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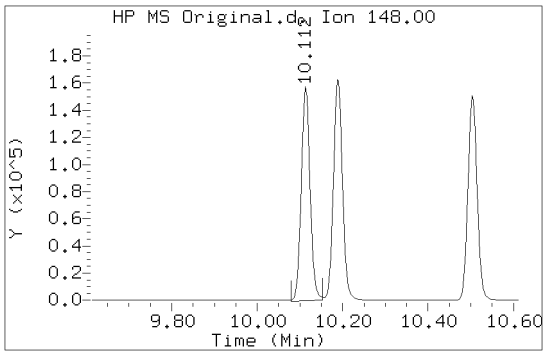
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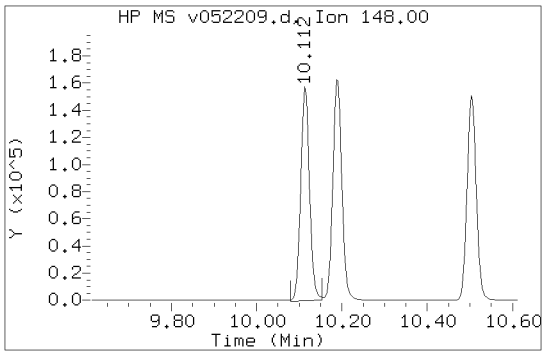
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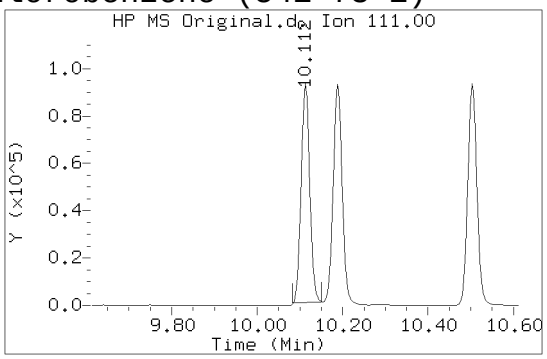
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LabSampID : VSTD100

1,3-Dichlorobenzene (541-73-1)

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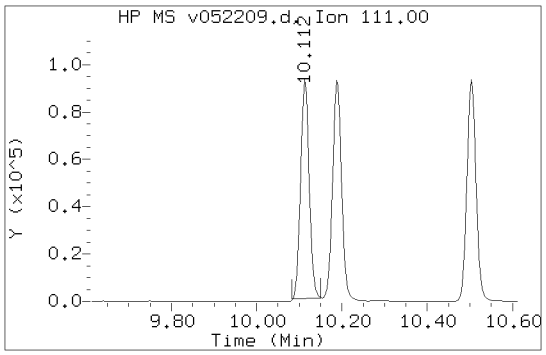
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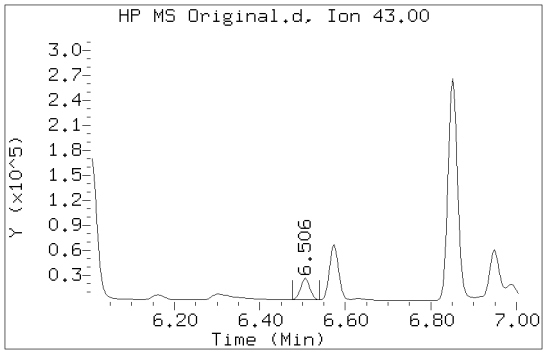


2-Nitropropane (79-46-9)

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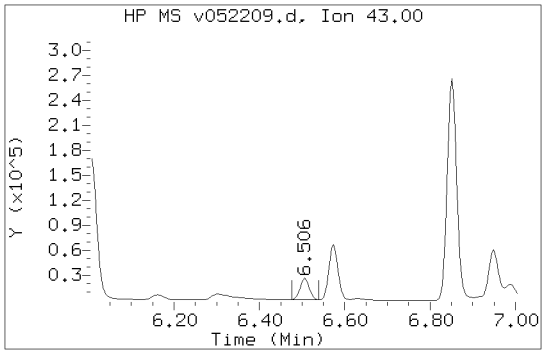
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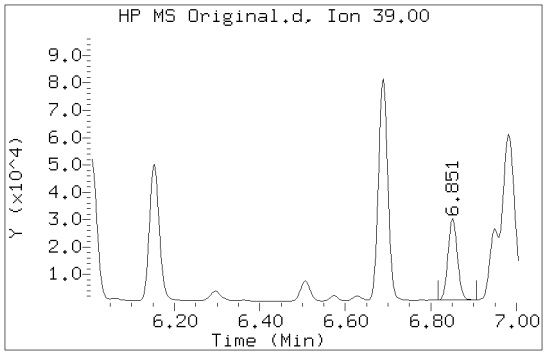
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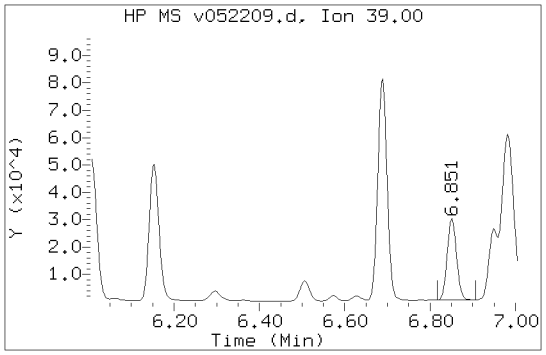
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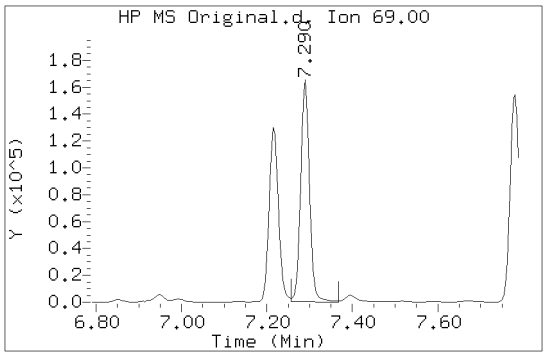


Ethyl Methacrylate (97-63-2)

Reason Code:

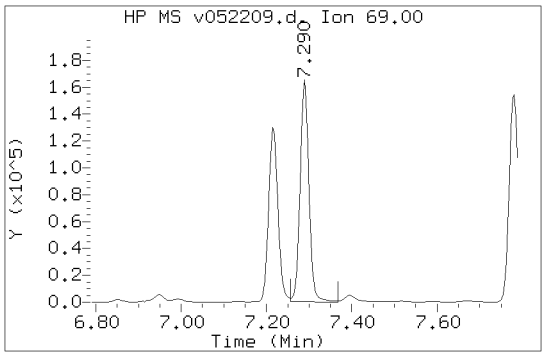
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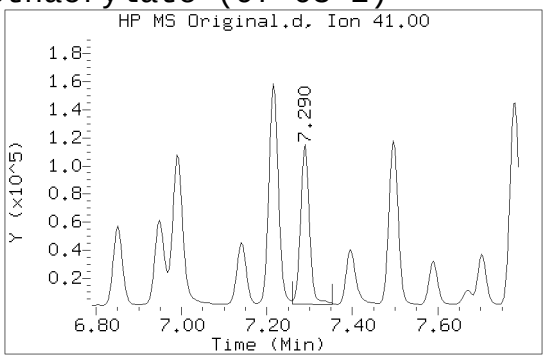
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InstruID : VOA9.i
LabSampID : VSTD100

Ethyl Methacrylate (97-63-2)

Reason Code:

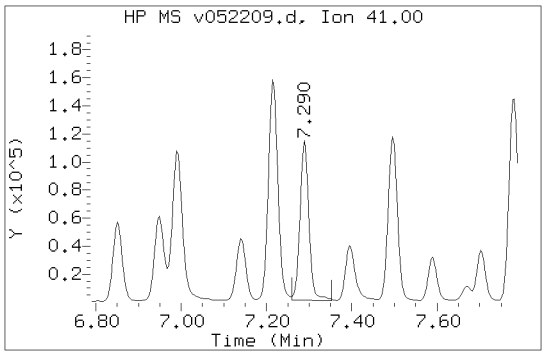
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AFTER

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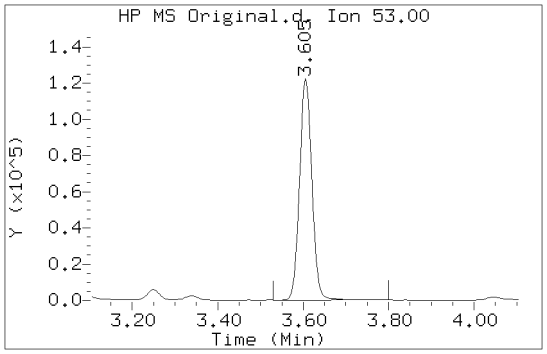


Chloroprene (126-99-8)

Reason Code:

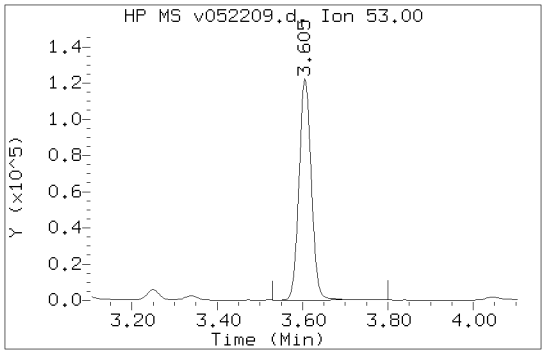
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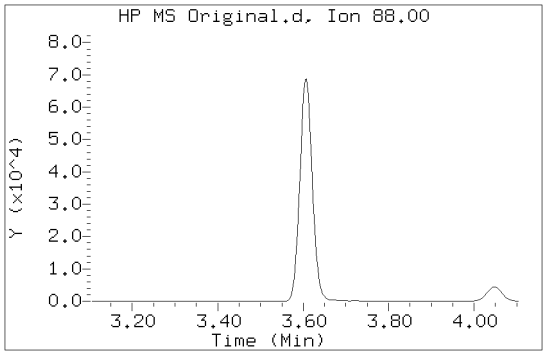
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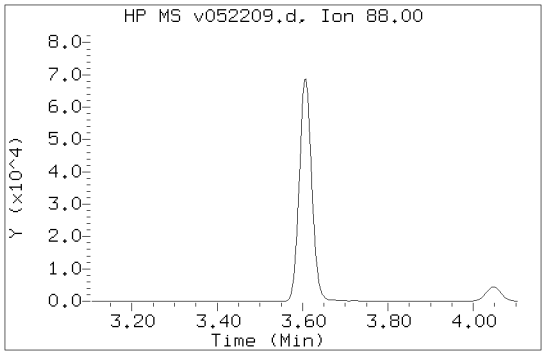
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AFTER

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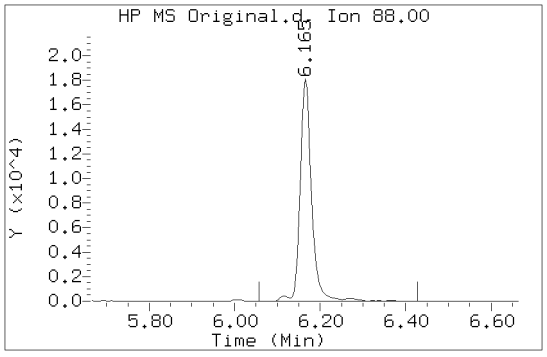


1,4-Dioxane ()

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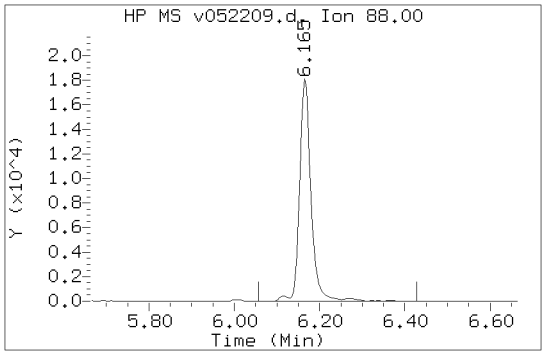
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AFTER

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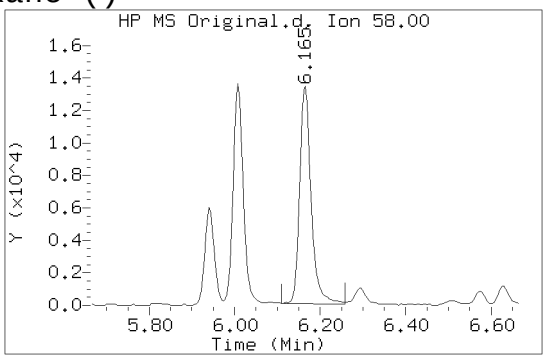
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InstruID : VOA9.i
LabSampID : VSTD100

1,4-Dioxane ()

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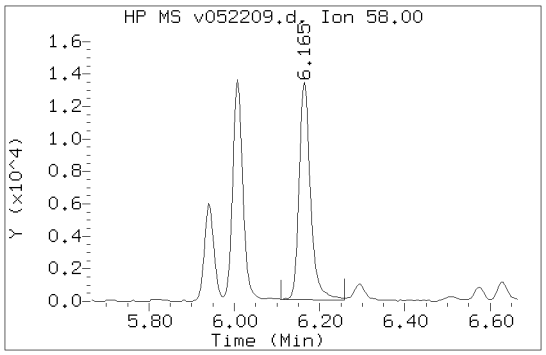
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23-May-2024
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AFTER

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HEIGHT
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23-May-2024
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firat
tastan

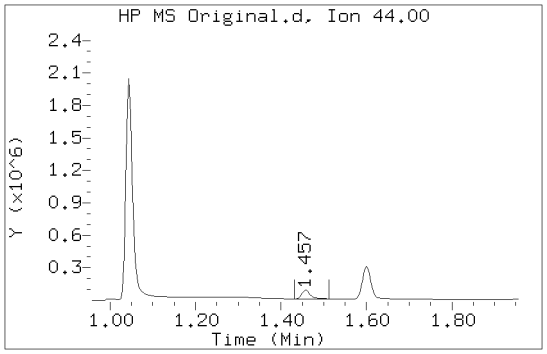


Acetaldehyde (75-07-0)

Reason Code:

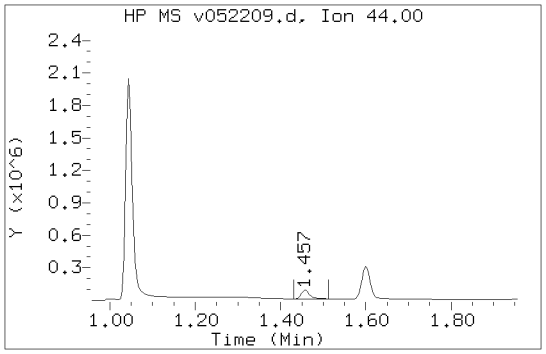
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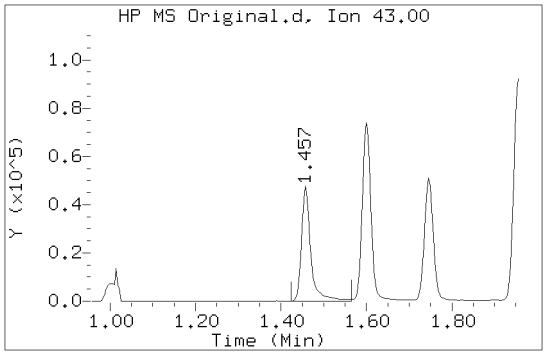
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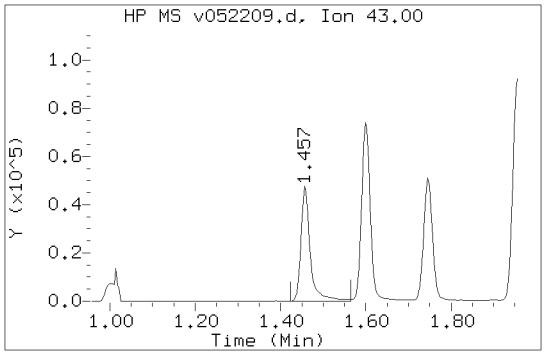
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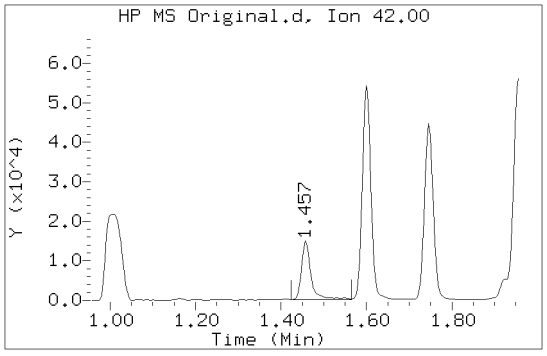
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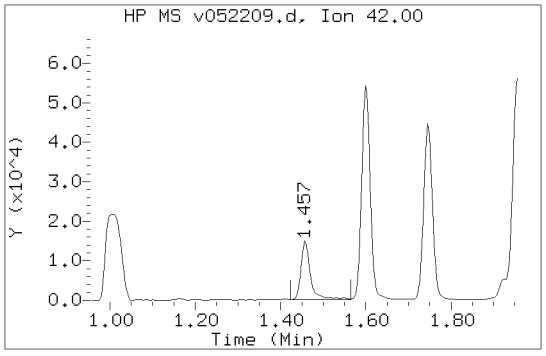
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23-May-2024
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AFTER

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23-May-2024
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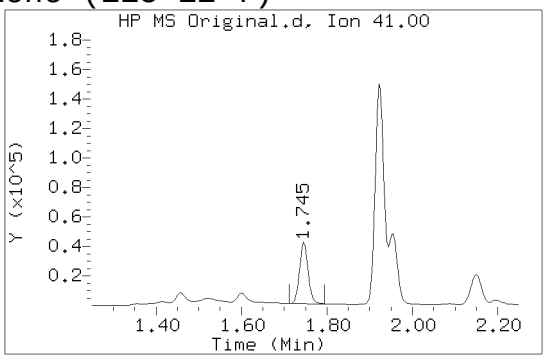
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Inj Date : 22-MAY-2024 22:53
InstruID : VOA9.i
LabSampID : VSTD100

Isobutylene (115-11-7)

Reason Code:

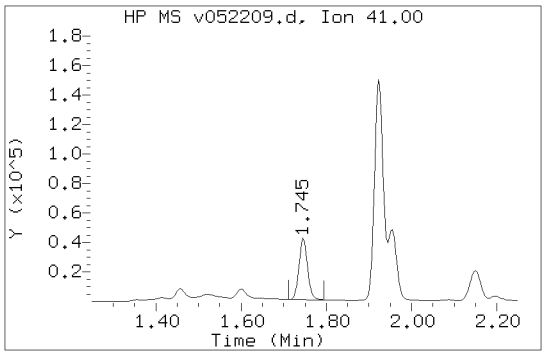
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23-May-2024
09:51
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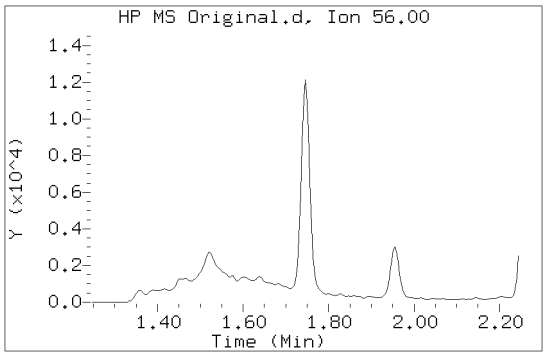
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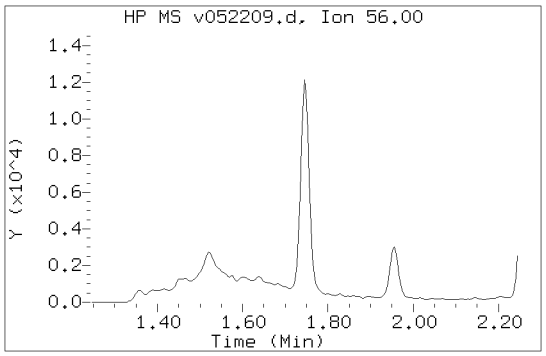
BEFORE

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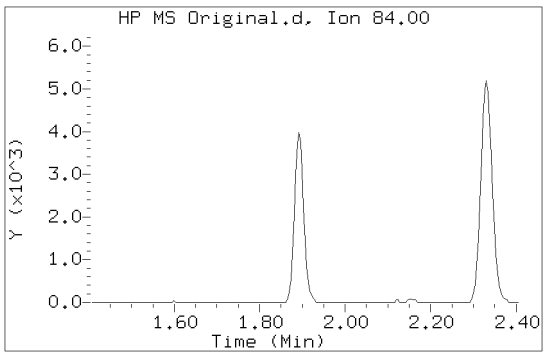
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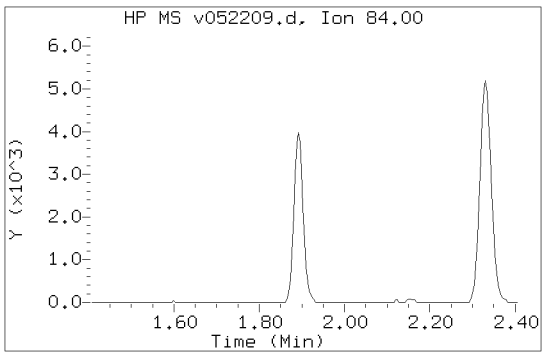
BEFORE

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23-May-2024
09:51
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tastan



AFTER

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AREA
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HEIGHT
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23-May-2024
09:51
firat
tastan



Data File: \\nahstws005\Target\chem\voa9.i\U240523.b\V052210.D Page 1
Report Date: 23-May-2024 09:51

ALS Laboratory Group

Data file : \\nahstws005\Target\chem\voa9.i\U240523.b\V052210.D
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Inj Date : 22-MAY-2024 23:14
Operator : FT Inst ID: VOA9.i
Smp Info : VSTD150;VSTD150;1;9
Misc Info : V9;WATER;0;1;
Comment   :
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Meth Date : 23-May-2024 09:51 VOA9.i Quant Type: ISTD
Cal Date : 22-MAY-2024 22:53 Cal File: V052209.D
Als bottle: 37 Calibration Sample, Level: 9
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7066

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	4.819	4.819	(1.000)	239958	50.0000	
2	Dichlorodifluoromethane	85	1.172	1.172	(0.243)	198151	150.000	154.78(M)
3	Chloromethane	50	1.303	1.303	(0.270)	607310	150.000	81.54
4	Propionitrile	54	4.343	4.343	(0.901)	419530	1500.00	1383.72
5	Vinyl Chloride	62	1.385	1.385	(0.288)	322547	150.000	148.42
6	Bromomethane	94	1.614	1.614	(0.335)	107492	150.000	90.46
7	Chloroethane	64	1.700	1.700	(0.353)	211144	150.000	140.67
8	Trichlorofluoromethane	101	1.903	1.903	(0.395)	378523	150.000	152.61
9	Acrolein	56	2.274	2.274	(0.472)	26414	300.000	211.54
10	Acetone	43	2.416	2.416	(0.501)	195395	300.000	225.61
11	1,1-Dichloroethene	96	2.337	2.337	(0.485)	221684	150.000	146.79
12	Isobutyl Alcohol	43	5.288	5.288	(1.097)	863241	3000.00	2980.94
13	Acetonitrile	39	2.678	2.678	(0.556)	291743	1500.00	1472.09
14	Allyl Chloride	41	2.678	2.678	(0.556)	707694	150.000	138.71
15	Iodomethane	142	2.472	2.472	(0.513)	163796	300.000	364.07
16	Acrylonitrile	53	3.072	3.072	(0.638)	200354	300.000	263.67
17	Methylene Chloride	84	2.798	2.798	(0.581)	267122	150.000	89.97
18	Methyl tert-butyl ether	73	3.087	3.087	(0.641)	666277	150.000	138.43
19	Carbon Disulfide	76	2.525	2.525	(0.524)	1405239	300.000	307.46
20	trans-1,2-Dichloroethene	96	3.065	3.065	(0.636)	243102	150.000	140.45

21 Vinyl Acetate	43	4.347	4.347 (0.902)	323159	300.000	272.35
22 1,1-Dichloroethane	63	3.518	3.518 (0.730)	459660	150.000	133.64

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	23 Chloroprene	53	3.616	3.616	(0.750)	386156	150.000	145.96(M)
	24 2-Butanone	43	4.268	4.268	(0.886)	309540	300.000	276.75
	25 Methacrylonitrile	41	4.497	4.497	(0.933)	183139	150.000	144.97(a)
	26 2,2-Dichloropropane	77	4.185	4.185	(0.869)	332884	150.000	157.24
	27 cis-1,2-Dichloroethene	96	4.200	4.200	(0.872)	290714	150.000	139.97
	28 Chloroform	83	4.575	4.575	(0.949)	474746	150.000	137.42
	29 Bromochloromethane	128	4.474	4.474	(0.928)	137705	150.000	134.55
$	30 Dibromofluoromethane	113	4.752	4.752	(0.986)	247969	150.000	142.30
	31 1,1,1-Trichloroethane	97	4.748	4.748	(0.985)	391150	150.000	161.73
	32 1,1-Dichloropropene	75	4.924	4.924	(0.887)	366910	150.000	148.78
	33 1,2-Dichloroethane	62	5.179	5.179	(0.933)	371348	150.000	135.56
	34 Carbon Tetrachloride	117	4.913	4.913	(0.885)	327707	150.000	163.50
$	35 1,2-Dichloroethane-d4	65	5.100	5.100	(1.058)	296828	150.000	135.62
*	36 1,4-Difluorobenzene	114	5.554	5.554	(1.000)	349206	50.0000	
	37 Benzene	78	5.141	5.141	(0.926)	1101756	150.000	138.16
	38 Trichloroethene	130	5.790	5.790	(1.043)	280951	150.000	145.14
	39 Bromodichloromethane	83	6.277	6.277	(1.130)	349201	150.000	164.23
	40 Methyl Methacrylate	41	5.824	5.824	(1.208)	109195	150.000	145.55
	41 2-Chloroethylvinyl ether	63	6.577	6.577	(1.184)	262521	300.000	386.61
	42 1,2-Dichloropropane	63	6.011	6.011	(1.082)	299364	150.000	135.31
	43 2-Nitropropane	43	6.510	6.510	(1.351)	73483	150.000	178.46(M)
	44 Dibromomethane	93	6.120	6.120	(1.102)	171098	150.000	142.09
	45 4-Methyl-2-Pentanone	43	6.855	6.855	(0.837)	687712	300.000	309.86
	46 cis-1,3-Dichloropropene	75	6.690	6.690	(1.205)	439737	150.000	179.31
*	47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	321752	50.0000	
$	48 Toluene-d8	98	6.922	6.922	(0.846)	927386	150.000	141.89
	49 Ethyl Methacrylate	69	7.289	7.289	(1.312)	422534	150.000	164.01(M)
	50 Toluene	91	6.982	6.982	(0.853)	1144047	150.000	140.69
	51 trans-1,3-Dichloropropene	75	7.196	7.196	(1.296)	365940	150.000	191.23
	52 2-Hexanone	43	7.589	7.589	(0.927)	464185	300.000	312.32
	53 1,1,2-Trichloroethane	83	7.353	7.353	(0.898)	214887	150.000	133.81
	54 1,3-Dichloropropane	76	7.499	7.499	(0.916)	469335	150.000	138.99
	55 Dibromochloromethane	129	7.690	7.690	(0.940)	280256	150.000	177.72
	56 Tetrachloroethene	164	7.454	7.454	(0.911)	222191	150.000	144.94
	57 1,2-Dibromoethane	107	7.784	7.784	(0.951)	259365	150.000	150.71
	58 1-Chlorohexane	55	8.197	8.197	(1.476)	252903	150.000	90.41
	59 Chlorobenzene	112	8.208	8.208	(1.003)	727850	150.000	131.48
	60 1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	264682	150.000	157.67
	61 Ethylbenzene	106	8.305	8.305	(1.015)	382760	150.000	146.85
	62 m,p-Xylenes	106	8.406	8.406	(1.027)	960371	300.000	300.06
	63 o-Xylene	106	8.744	8.744	(1.068)	465583	150.000	148.61
	64 Styrene	104	8.759	8.759	(1.070)	821909	150.000	154.66
	66 Bromoform	173	8.916	8.916	(1.089)	191523	150.000	195.04
	67 Isopropylbenzene	105	9.059	9.059	(1.107)	1192276	150.000	153.46
	68 1,1,2,2-Tetrachloroethane	83	9.325	9.325	(0.917)	369458	150.000	138.76
$	69 4-Bromofluorobenzene	95	9.190	9.190	(1.123)	343103	150.000	137.53
*	70 1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	173466	50.0000	
	71 1,2,3-Trichloropropane	75	9.362	9.362	(0.921)	395706	150.000	148.99
	72 trans-1,4-Dichloro-2-butene	53	9.374	9.374	(1.145)	88907	150.000	154.80
	73 n-Propylbenzene	91	9.411	9.411	(0.926)	1400350	150.000	156.30
	74 Bromobenzene	156	9.317	9.317	(0.916)	320122	150.000	140.31
	75 1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	989469	150.000	160.03

76	2-Chlorotoluene	91	9.482	9.482 (0.933)	831056	150.000	143.15
77	4-Chlorotoluene	91	9.572	9.572 (0.941)	965133	150.000	145.97

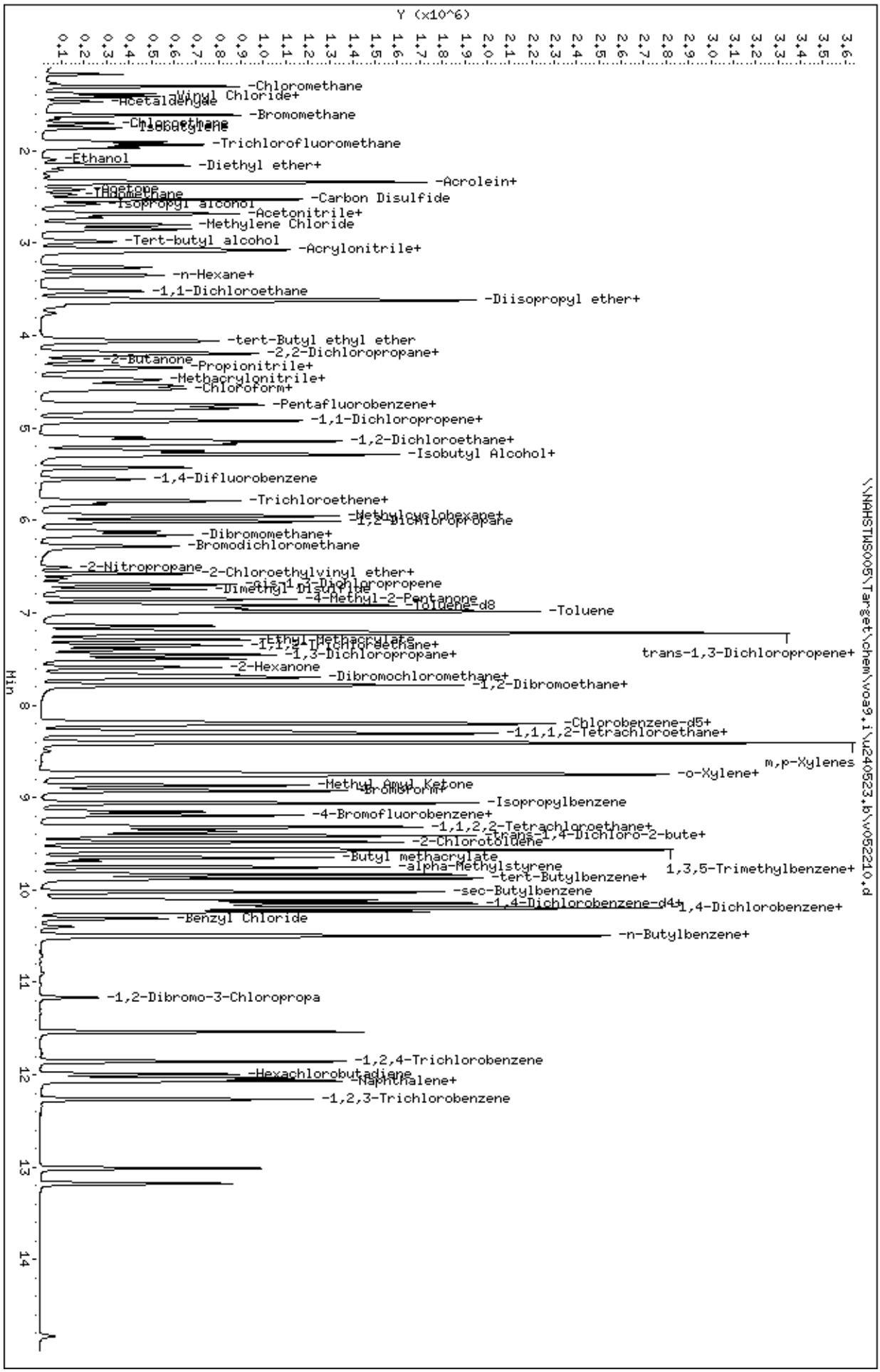
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
78	tert-Butylbenzene	119	9.835	9.835	(0.967)	841533	150.000	155.15
79	1,2,4-Trimethylbenzene	105	9.876	9.876	(0.971)	978699	150.000	154.30
81	sec-Butylbenzene	105	10.022	10.022	(0.986)	1161338	150.000	161.13
82	p-Isopropyltoluene	119	10.146	10.146	(0.998)	1029142	150.000	163.99
83	1,3-Dichlorobenzene	146	10.112	10.112	(0.994)	572945	150.000	139.69(M)
84	1,4-Dichlorobenzene	146	10.191	10.191	(1.002)	591659	150.000	129.21
86	Benzyl Chloride	91	10.311	10.311	(1.260)	376162	150.000	107.03
87	n-Butylbenzene	91	10.491	10.491	(1.032)	921709	150.000	151.31
88	1,2-Dichlorobenzene	146	10.502	10.502	(1.033)	559869	150.000	134.80
89	1,2-Dibromo-3-Chloropropane	155	11.166	11.166	(1.098)	53671	150.000	182.69
90	1,2,4-Trichlorobenzene	180	11.855	11.855	(1.166)	400246	150.000	153.70
91	Hexachlorobutadiene	225	11.998	11.998	(1.180)	168921	150.000	147.63
92	Naphthalene	128	12.065	12.065	(1.187)	942854	150.000	170.68
93	1,2,3-Trichlorobenzene	180	12.268	12.268	(1.206)	367419	150.000	151.52
146	Methyl acetate	43	2.720	2.720	(0.564)	289604	150.000	121.09
138	Freon TF	101	2.341	2.341	(0.486)	422728	150.000	163.60
141	Cyclohexane	56	4.785	4.785	(0.993)	413887	150.000	95.15
142	Tetrahydrofuran	42	4.545	4.545	(0.943)	106261	300.000	233.78
147	Methylcyclohexane	55	5.947	5.947	(1.071)	707169	150.000	168.68(A)
135	1,4-Dioxane	88	6.169	6.169	(1.280)	58072	3000.00	2137.25(M)
132	n-Butanol	56	5.827	5.827	(1.209)	154786	3000.00	3424.75
136	n-Hexane	57	3.346	3.346	(0.694)	275576	150.000	146.86
139	Diethyl ether	59	2.154	2.154	(0.447)	184324	150.000	138.61
148	Tert-butyl alcohol	59	2.982	2.982	(0.619)	393893	3000.00	2760.03
149	Isopropyl alcohol	45	2.577	2.577	(0.535)	317783	3000.00	2762.64
152	Amyl alcohol	42	7.398	7.398	(0.904)	179902	3000.00	3187.51
156	Diisopropyl ether	45	3.627	3.627	(0.753)	865221	150.000	137.41
162	Butyl acrylate	55	8.729	8.729	(1.066)	597576	150.000	175.60
187	n-Amyl acetate	43	8.928	8.928	(1.091)	545320	150.000	149.80
164	Dicyclopentadiene	66	10.198	10.198	(1.003)	1228197	150.000	136.77
166	1,2,3-Trimethylbenzene	105	10.232	10.232	(1.006)	907380	150.000	154.27
167	Ethanol	45	2.097	2.097	(0.435)	60218	3000.00	2565.11
172	tert-Butyl formate	59	5.246	5.246	(1.089)	441582	300.000	319.59(A)
173	3,3-Dimethyl-1-butanol	57	7.780	7.780	(0.951)	652708	3000.00	3069.43
174	tert-Amyl methyl ether	73	5.288	5.288	(1.097)	823130	150.000	155.10
175	tert-Butyl ethyl ether	59	4.058	4.058	(0.842)	791524	150.000	148.38
176	tert-Amyl alcohol	59	5.246	5.246	(1.089)	441582	3000.00	3211.15
151	4-Methyl-2-pentanol	45	7.218	7.218	(1.300)	1911785	3000.00	3661.04
140	1,3-Butadiene	54	1.411	1.411	(0.293)	144272	150.000	152.17
182	Epichlorohydrin	57	6.630	6.630	(1.194)	84666	600.000	666.14
M 94	1,2-Dichloroethylene (total)	96				533816	300.000	(a)
145	alpha-Methylstyrene	118	9.752	9.752	(0.959)	421653	150.000	165.92
130	Ethyl Acetate	43	4.347	4.347	(0.902)	323159	150.000	138.00
131	Methyl Acrylate	55	4.373	4.373	(0.907)	341037	150.000	148.31
189	n-Butyl acetate	43	7.702	7.702	(0.941)	536822	150.000	161.82
134	Cyclohexanone	55	9.152	9.152	(0.900)	279590	3000.00	2787.99
185	Isoprene	39	2.165	2.165	(0.449)	67449	150.000	165.35
188	Isopropyl acetate	43	5.288	5.288	(0.952)	858493	150.000	146.79
150	Allyl alcohol	57	3.346	3.346	(0.694)	275576	3000.00	2937.27
194	Acetaldehyde	44	1.468	1.468	(0.305)	186588	600.000	576.87(M)
195	Methyl Amyl Ketone	43	8.864	8.864	(1.083)	665328	150.000	164.91
200	Dimethyl Disulfide	94	6.746	6.746	(0.824)	293895	150.000	289.09(A)

202 Isobutylene	41	1.756	1.756 (0.365)	97888	150.000	178.46(M)
133 Ethyl Acrylate	55	5.947	5.947 (1.234)	707169	150.000	167.14

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
163 Butyl methacrylate	41	9.647	9.647	(0.949)	327444	150.000	138.75
159 Propylene oxide	43	2.210	2.210	(0.459)	38997	300.000	214.85(A)
203 2-Ethylhexyl Acrylate	55	12.039	12.039	(1.184)	349547	150.000	207.45(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.
M - Compound response manually integrated.



Data File: \\NAHSTWS005\Target\chem\voa9.i\u240523.b\v052210.d
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Client ID: VSTD150
Sample Info: VSTD150;VSTD150;1;9
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9.i
Operator: FT
Column diameter: 0.18

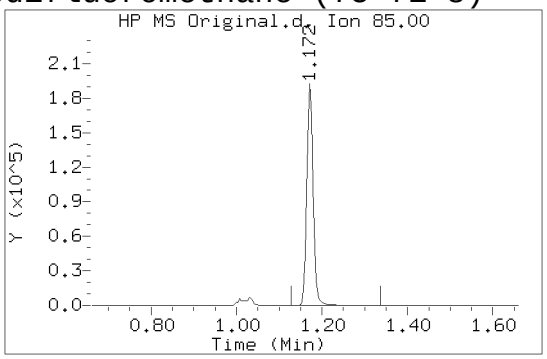
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Inj Date : 22-MAY-2024 23:14
InstruID : VOA9.i
LabSampID : VSTD150

Dichlorodifluoromethane (75-71-8)

Reason Code:

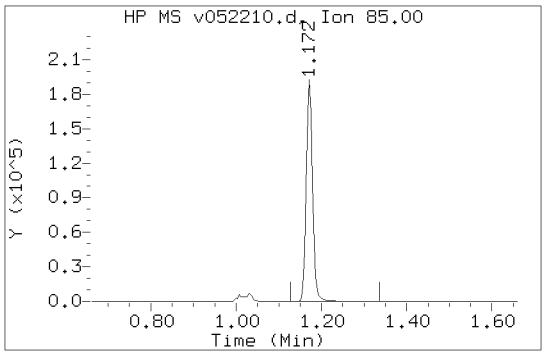
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HEIGHT
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23-May-2024
09:51
firat
tastan



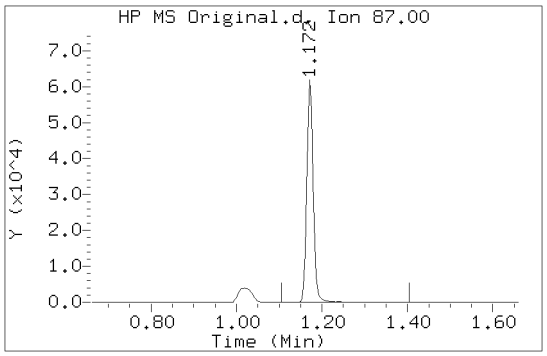
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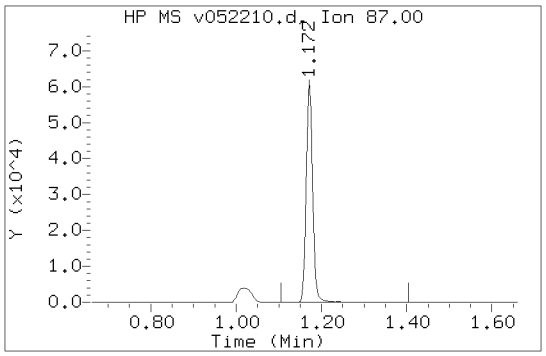
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23-May-2024
09:51
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AFTER

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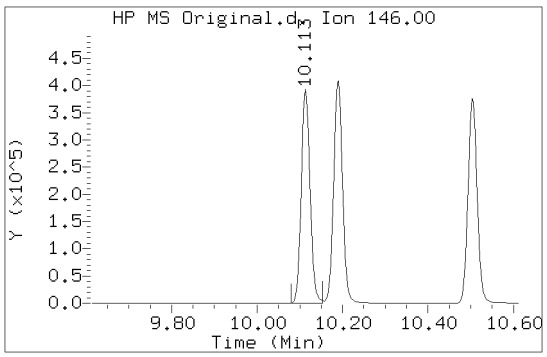


1,3-Dichlorobenzene (541-73-1)

Reason Code:

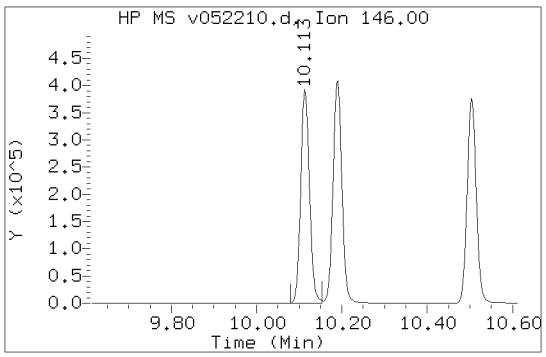
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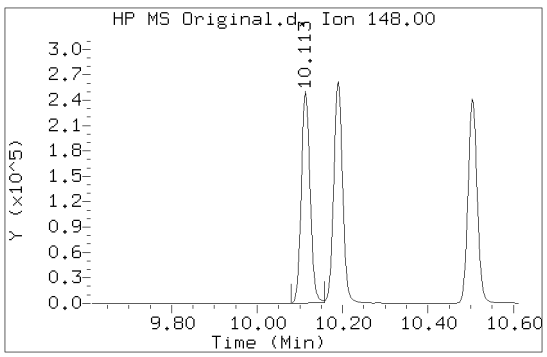
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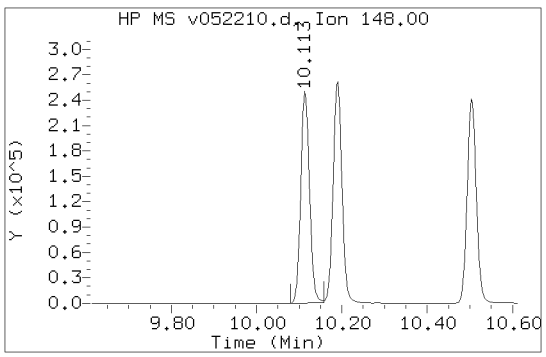
BEFORE

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250165
23-May-2024
09:51
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AFTER

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23-May-2024
09:51
firat
tastan



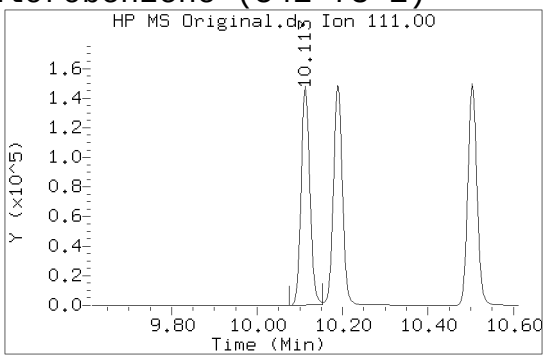
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InstruID : VOA9.i
LabSampID : VSTD150

1,3-Dichlorobenzene (541-73-1)

Reason Code:

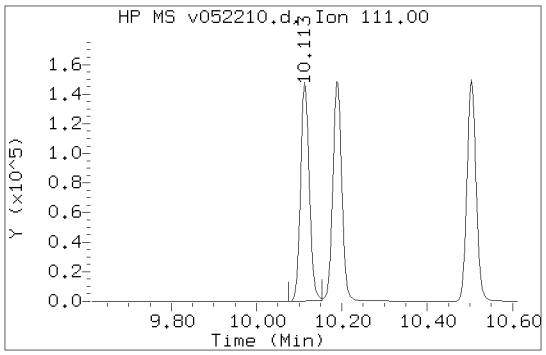
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23-May-2024
09:51
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AFTER

MASS
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23-May-2024
09:51
firat
tastan

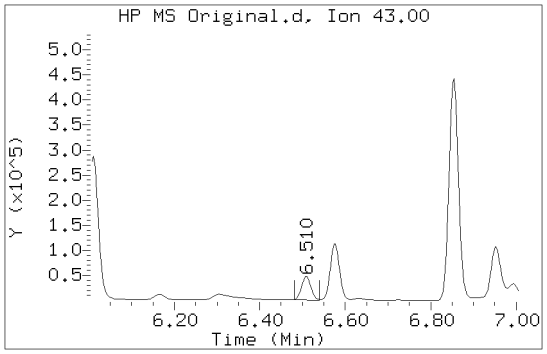


2-Nitropropane (79-46-9)

Reason Code:

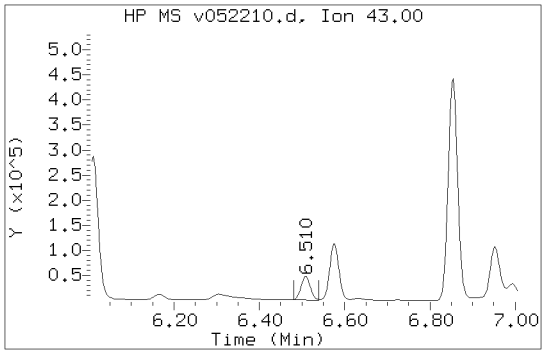
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HEIGHT
46577
23-May-2024
09:51
firat
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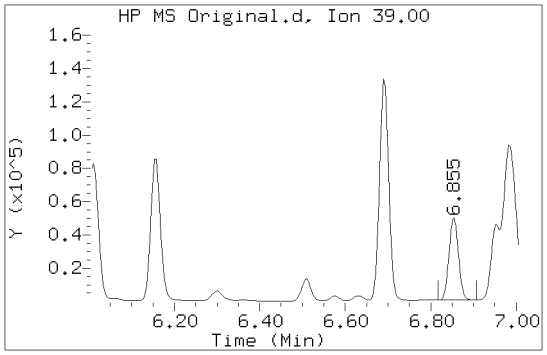
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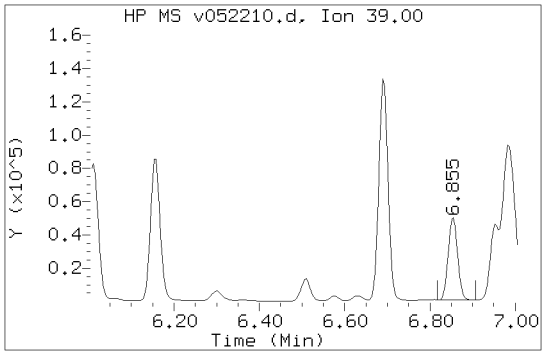
BEFORE

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23-May-2024
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AFTER

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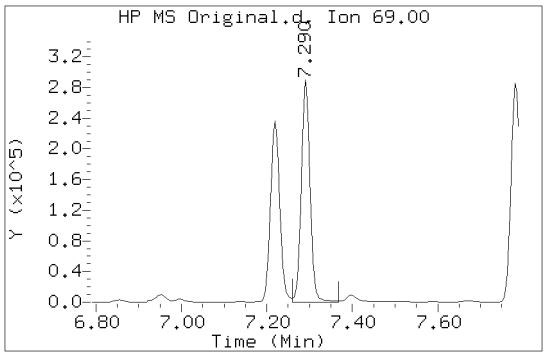


Ethyl Methacrylate (97-63-2)

Reason Code:

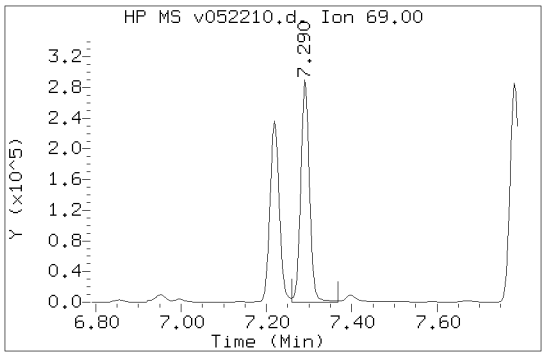
BEFORE

MASS
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HEIGHT
289804
23-May-2024
09:51
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AFTER

MASS
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AREA
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HEIGHT
289804
23-May-2024
09:51
firat
tastan



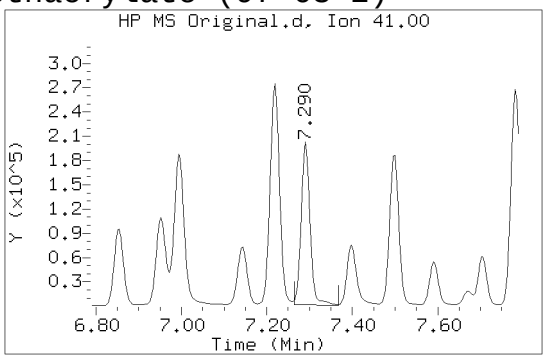
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Inj Date : 22-MAY-2024 23:14
InstruID : VOA9.i
LabSampID : VSTD150

Ethyl Methacrylate (97-63-2)

Reason Code:

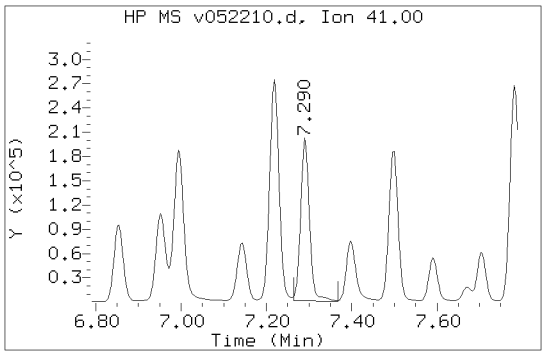
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AFTER

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firat
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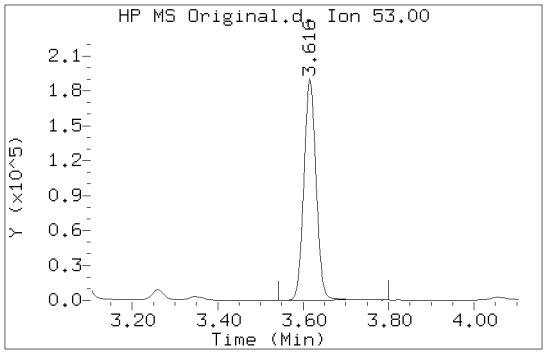


Chloroprene (126-99-8)

Reason Code:

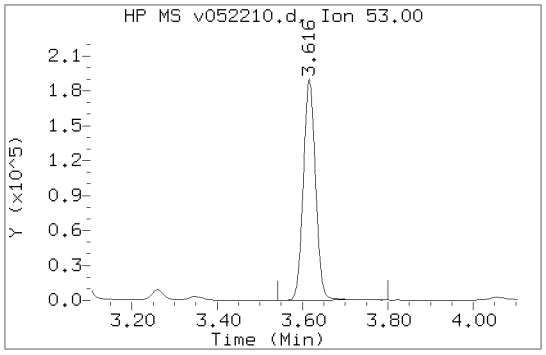
BEFORE

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23-May-2024
09:51
firat
tastan



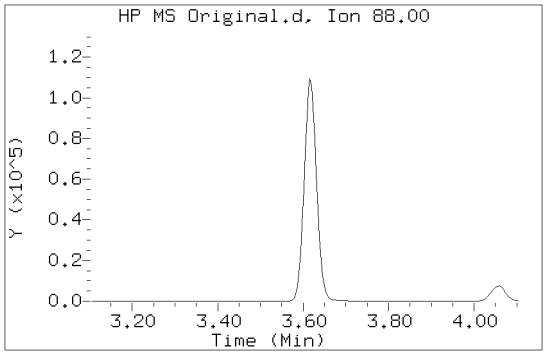
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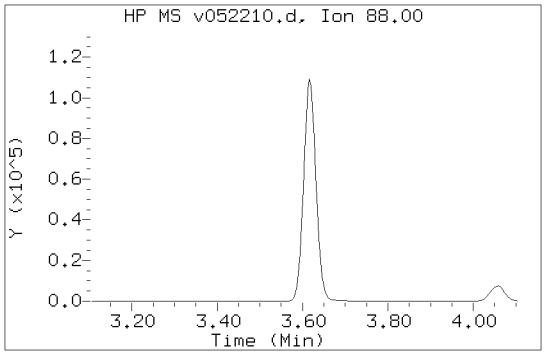
BEFORE

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688
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410
23-May-2024
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AFTER

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688
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09:51
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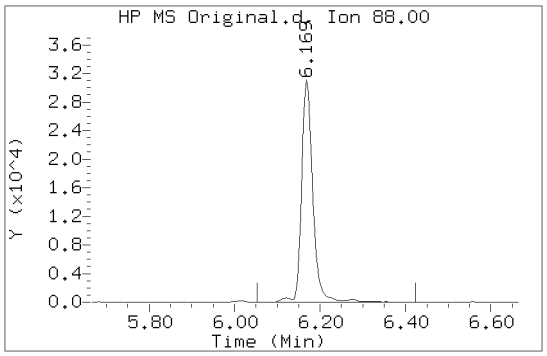


1,4-Dioxane ()

Reason Code:

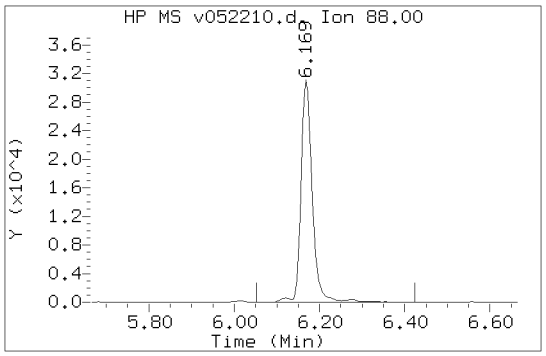
BEFORE

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09:51
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AFTER

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23-May-2024
09:51
firat
tastan



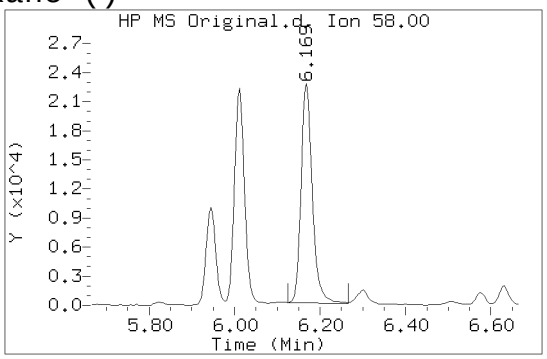
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Inj Date : 22-MAY-2024 23:14
InstruID : VOA9.i
LabSampID : VSTD150

1,4-Dioxane ()

Reason Code:

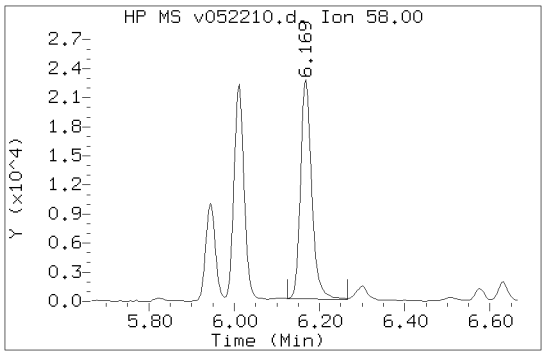
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23-May-2024
09:51
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AFTER

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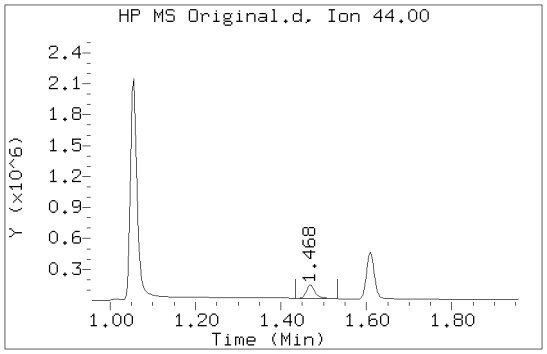


Acetaldehyde (75-07-0)

Reason Code:

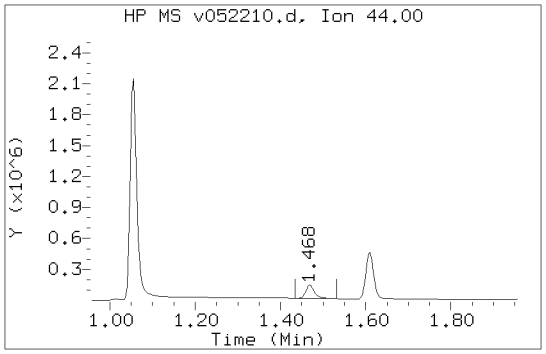
BEFORE

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HEIGHT
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09:51
firat
tastan



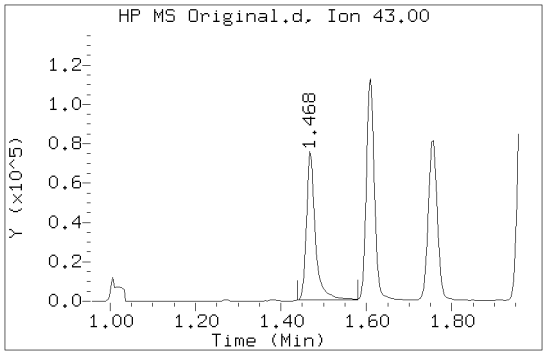
AFTER

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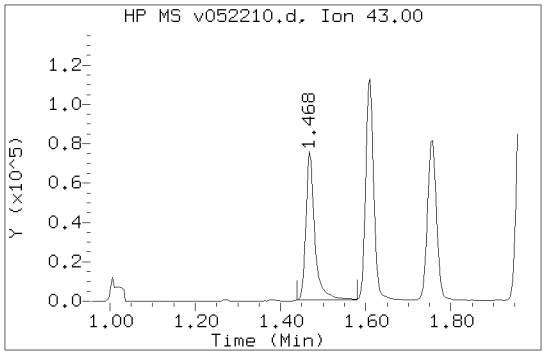
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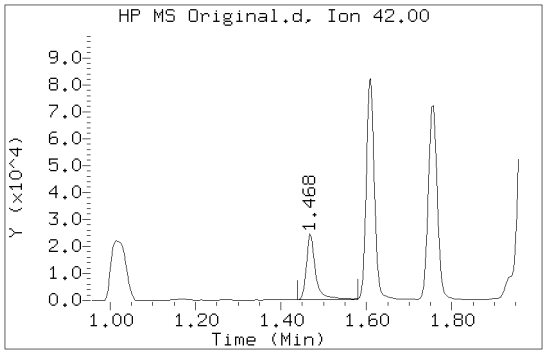
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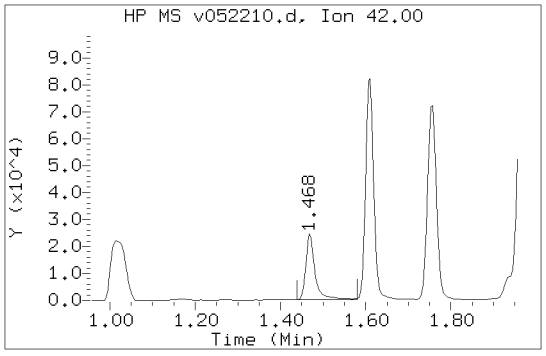
BEFORE

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23-May-2024
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AFTER

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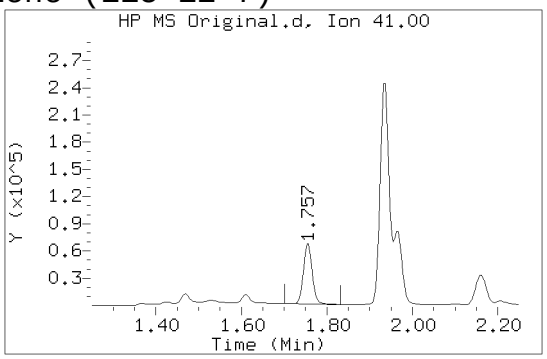
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LabSampID : VSTD150

Isobutylene (115-11-7)

Reason Code:

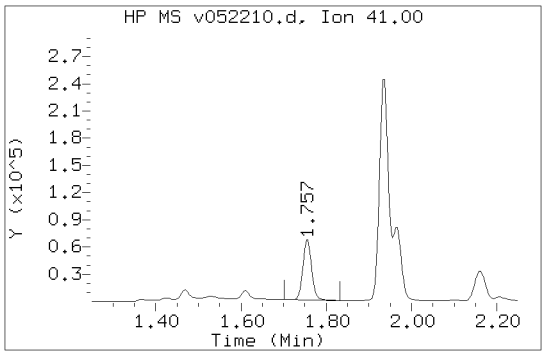
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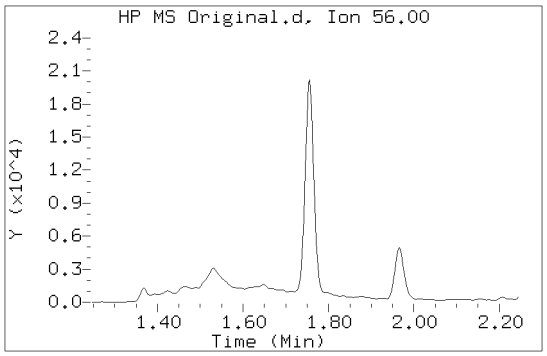
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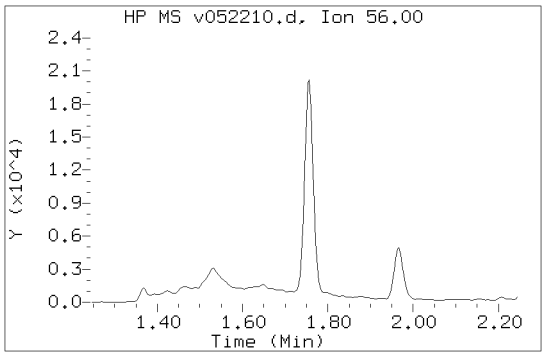
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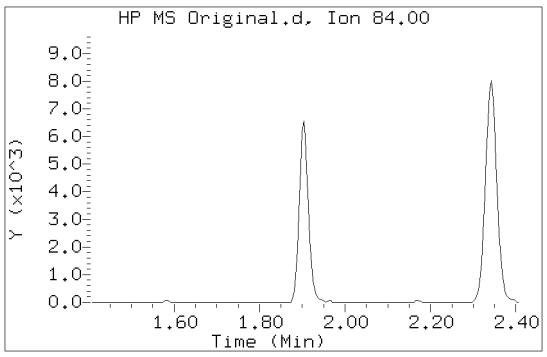
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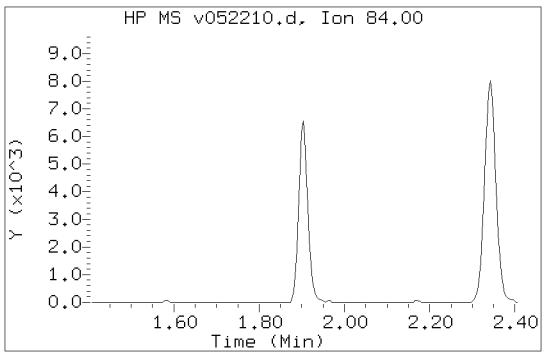
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Data File: \\nahstws005\Target\chem\voa9.i\U240523.b\V052211.D Page 1
Report Date: 23-May-2024 09:51

ALS Laboratory Group

Data file : \\nahstws005\Target\chem\voa9.i\U240523.b\V052211.D
Lab Smp Id: VSTD200 Client Smp ID: VSTD200
Inj Date : 22-MAY-2024 23:36
Operator : FT Inst ID: VOA9.i
Smp Info : VSTD200;VSTD200;1;10
Misc Info : V9;WATER;0;1;
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Cal Date : 22-MAY-2024 23:14 Cal File: V052210.D
Als bottle: 38 Calibration Sample, Level: 10
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7066

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	4.815	4.815	(1.000)	254127	50.0000	
2	Dichlorodifluoromethane	85	1.168	1.168	(0.243)	266043	200.000	196.22(M)
3	Chloromethane	50	1.299	1.299	(0.270)	777289	200.000	98.55
4	Propionitrile	54	4.339	4.339	(0.901)	549038	2000.00	1709.90
5	Vinyl Chloride	62	1.381	1.381	(0.287)	439354	200.000	190.90
6	Bromomethane	94	1.610	1.610	(0.334)	156929	200.000	124.71
7	Chloroethane	64	1.696	1.696	(0.352)	291704	200.000	183.51
8	Trichlorofluoromethane	101	1.899	1.899	(0.394)	512939	200.000	195.27
9	Acrolein	56	2.266	2.266	(0.471)	34482	400.000	260.76
10	Acetone	43	2.412	2.412	(0.501)	261791	400.000	285.42
11	1,1-Dichloroethene	96	2.334	2.334	(0.485)	303302	200.000	189.64
12	Isobutyl Alcohol	43	5.284	5.284	(1.097)	1273928	4000.00	4153.85(A)
13	Acetonitrile	39	2.675	2.675	(0.556)	392164	2000.00	1868.48
14	Allyl Chloride	41	2.675	2.675	(0.556)	947838	200.000	175.42
15	Iodomethane	142	2.469	2.469	(0.513)	314738	400.000	660.58(A)
16	Acrylonitrile	53	3.068	3.068	(0.637)	266324	400.000	330.95
17	Methylene Chloride	84	2.795	2.795	(0.580)	364439	200.000	115.91
18	Methyl tert-butyl ether	73	3.083	3.083	(0.640)	899435	200.000	176.46
19	Carbon Disulfide	76	2.521	2.521	(0.524)	1923765	400.000	397.44
20	trans-1,2-Dichloroethene	96	3.061	3.061	(0.636)	332816	200.000	181.57

21 Vinyl Acetate	43	4.343	4.343 (0.902)	430445	400.000	342.54
22 1,1-Dichloroethane	63	3.514	3.514 (0.730)	632104	200.000	173.54

Data File: \\nahstws005\Target\chem\voa9.i\U240523.b\V052211.D Page 2
Report Date: 23-May-2024 09:51

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
23	Chloroprene	53	3.612	3.612	(0.750)	519657	200.000	185.48(M)
24	2-Butanone	43	4.264	4.264	(0.886)	411704	400.000	347.57
25	Methacrylonitrile	41	4.497	4.497	(0.934)	250943	200.000	187.57(a)
26	2,2-Dichloropropane	77	4.185	4.185	(0.869)	456164	200.000	203.47(A)
27	cis-1,2-Dichloroethene	96	4.197	4.197	(0.872)	398574	200.000	181.21
28	Chloroform	83	4.575	4.575	(0.950)	645327	200.000	176.38
29	Bromochloromethane	128	4.470	4.470	(0.928)	188513	200.000	173.93
$ 30	Dibromofluoromethane	113	4.748	4.748	(0.986)	343699	200.000	186.24
31	1,1,1-Trichloroethane	97	4.744	4.744	(0.985)	534218	200.000	208.57(A)
32	1,1-Dichloropropene	75	4.924	4.924	(0.887)	494827	200.000	188.40
33	1,2-Dichloroethane	62	5.175	5.175	(0.932)	502406	200.000	172.22
34	Carbon Tetrachloride	117	4.913	4.913	(0.885)	452845	200.000	212.15(A)
$ 35	1,2-Dichloroethane-d4	65	5.096	5.096	(1.058)	404807	200.000	174.64
* 36	1,4-Difluorobenzene	114	5.554	5.554	(1.000)	371900	50.0000	
37	Benzene	78	5.138	5.138	(0.925)	1506050	200.000	177.34
38	Trichloroethene	130	5.786	5.786	(1.042)	382844	200.000	185.71
39	Bromodichloromethane	83	6.277	6.277	(1.130)	483633	200.000	213.58(A)
40	Methyl Methacrylate	41	5.824	5.824	(1.209)	141715	200.000	178.37
41	2-Chloroethylvinyl ether	63	6.573	6.573	(1.184)	365558	400.000	505.50(A)
42	1,2-Dichloropropane	63	6.007	6.007	(1.082)	409712	200.000	173.89
43	2-Nitropropane	43	6.506	6.506	(1.351)	103519	200.000	237.39(AM)
44	Dibromomethane	93	6.120	6.120	(1.102)	232839	200.000	181.56
45	4-Methyl-2-Pentanone	43	6.851	6.851	(0.837)	919104	400.000	392.84
46	cis-1,3-Dichloropropene	75	6.690	6.690	(1.205)	607129	200.000	232.46(A)
* 47	Chlorobenzene-d5	117	8.182	8.182	(1.000)	339173	50.0000	
$ 48	Toluene-d8	98	6.922	6.922	(0.846)	1284061	200.000	186.37
49	Ethyl Methacrylate	69	7.289	7.289	(1.312)	576848	200.000	210.25(M)
50	Toluene	91	6.978	6.978	(0.853)	1552231	200.000	181.08
51	trans-1,3-Dichloropropene	75	7.196	7.196	(1.296)	509892	200.000	250.20(A)
52	2-Hexanone	43	7.589	7.589	(0.928)	625529	400.000	399.26
53	1,1,2-Trichloroethane	83	7.353	7.353	(0.899)	291834	200.000	172.40
54	1,3-Dichloropropane	76	7.496	7.496	(0.916)	637919	200.000	179.21
55	Dibromochloromethane	129	7.691	7.691	(0.940)	388512	200.000	233.72(A)
56	Tetrachloroethene	164	7.454	7.454	(0.911)	302775	200.000	187.36
57	1,2-Dibromoethane	107	7.784	7.784	(0.951)	351203	200.000	193.60
58	1-Chlorohexane	55	8.197	8.197	(1.476)	347980	200.000	116.81
59	Chlorobenzene	112	8.208	8.208	(1.003)	999180	200.000	171.22
60	1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	369070	200.000	208.57(A)
61	Ethylbenzene	106	8.305	8.305	(1.015)	523853	200.000	190.66
62	m,p-Xylenes	106	8.407	8.407	(1.027)	1307803	400.000	387.62
63	o-Xylene	106	8.744	8.744	(1.069)	638558	200.000	193.35
64	Styrene	104	8.759	8.759	(1.071)	1127425	200.000	201.25(A)
66	Bromoform	173	8.916	8.916	(1.090)	268349	200.000	259.24(A)
67	Isopropylbenzene	105	9.059	9.059	(1.107)	1623884	200.000	198.28
68	1,1,2,2-Tetrachloroethane	83	9.325	9.325	(0.917)	495269	200.000	176.67
$ 69	4-Bromofluorobenzene	95	9.190	9.190	(1.123)	472873	200.000	179.81
* 70	1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	182636	50.0000	
71	1,2,3-Trichloropropane	75	9.362	9.362	(0.921)	536785	200.000	191.96
72	trans-1,4-Dichloro-2-butene	53	9.374	9.374	(1.146)	121414	200.000	200.55(A)
73	n-Propylbenzene	91	9.411	9.411	(0.926)	1829443	200.000	193.94
74	Bromobenzene	156	9.314	9.314	(0.916)	438638	200.000	182.61
75	1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	1351352	200.000	207.58(A)

76	2-Chlorotoluene	91	9.482	9.482 (0.933)	1126049	200.000	184.23
77	4-Chlorotoluene	91	9.572	9.572 (0.941)	1312288	200.000	188.52

Data File: \\nahstws005\Target\chem\voa9.i\U240523.b\V052211.D Page 3
Report Date: 23-May-2024 09:51

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
78	tert-Butylbenzene	119	9.835	9.835	(0.967)	1142905	200.000	200.13(A)
79	1,2,4-Trimethylbenzene	105	9.876	9.876	(0.971)	1329724	200.000	199.11
81	sec-Butylbenzene	105	10.022	10.022	(0.986)	1570064	200.000	206.90(A)
82	p-Isopropyltoluene	119	10.146	10.146	(0.998)	1403911	200.000	212.48(A)
83	1,3-Dichlorobenzene	146	10.112	10.112	(0.994)	778320	200.000	180.23(M)
84	1,4-Dichlorobenzene	146	10.191	10.191	(1.002)	800109	200.000	165.96
86	Benzyl Chloride	91	10.307	10.307	(1.260)	544172	200.000	146.89
87	n-Butylbenzene	91	10.491	10.491	(1.032)	1247444	200.000	194.50
88	1,2-Dichlorobenzene	146	10.502	10.502	(1.033)	765245	200.000	175.00
89	1,2-Dibromo-3-Chloropropane	155	11.166	11.166	(1.098)	75288	200.000	243.40(A)
90	1,2,4-Trichlorobenzene	180	11.855	11.855	(1.166)	553105	200.000	201.73(A)
91	Hexachlorobutadiene	225	11.994	11.994	(1.180)	231334	200.000	192.02
92	Naphthalene	128	12.065	12.065	(1.187)	1271832	200.000	218.68(A)
93	1,2,3-Trichlorobenzene	180	12.268	12.268	(1.206)	497537	200.000	194.88
146	Methyl acetate	43	2.716	2.716	(0.564)	389125	200.000	153.64
138	Freon TF	101	2.337	2.337	(0.485)	574722	200.000	210.02(A)
141	Cyclohexane	56	4.785	4.785	(0.994)	565382	200.000	122.74
142	Tetrahydrofuran	42	4.542	4.542	(0.943)	138786	400.000	288.31
147	Methylcyclohexane	55	5.944	5.944	(1.070)	958101	200.000	214.59(A)
135	1,4-Dioxane	88	6.169	6.169	(1.281)	75607	4000.00	2627.45(M)
132	n-Butanol	56	5.824	5.824	(1.209)	206844	4000.00	4321.40(A)
136	n-Hexane	57	3.346	3.346	(0.695)	379527	200.000	190.98
139	Diethyl ether	59	2.150	2.150	(0.447)	254190	200.000	180.50
148	Tert-butyl alcohol	59	2.978	2.978	(0.619)	519651	4000.00	3438.21
149	Isopropyl alcohol	45	2.574	2.574	(0.534)	416717	4000.00	3420.73
152	Amyl alcohol	42	7.398	7.398	(0.904)	241673	4000.00	4062.03(A)
156	Diisopropyl ether	45	3.623	3.623	(0.752)	1170909	200.000	175.59
162	Butyl acrylate	55	8.729	8.729	(1.067)	852552	200.000	237.66(A)
187	n-Amyl acetate	43	8.928	8.928	(1.091)	769469	200.000	200.52(A)
164	Dicyclopentadiene	66	10.198	10.198	(1.003)	1661176	200.000	175.69
166	1,2,3-Trimethylbenzene	105	10.232	10.232	(1.006)	1224350	200.000	197.72
167	Ethanol	45	2.094	2.094	(0.435)	79955	4000.00	3215.95
172	tert-Butyl formate	59	5.246	5.246	(1.090)	589770	400.000	403.04(A)
173	3,3-Dimethyl-1-butanol	57	7.780	7.780	(0.951)	877631	4000.00	3915.17
174	tert-Amyl methyl ether	73	5.288	5.288	(1.098)	1087922	200.000	193.57
175	tert-Butyl ethyl ether	59	4.054	4.054	(0.842)	1086587	200.000	192.34
176	tert-Amyl alcohol	59	5.246	5.246	(1.090)	589770	4000.00	4049.64(A)
151	4-Methyl-2-pentanol	45	7.218	7.218	(1.300)	2584636	4000.00	4647.51(A)
140	1,3-Butadiene	54	1.408	1.408	(0.292)	196140	200.000	195.34
182	Epichlorohydrin	57	6.630	6.630	(1.194)	114215	800.000	843.79(A)
M 94	1,2-Dichloroethylene (total)	96				731390	400.000	(a)
145	alpha-Methylstyrene	118	9.752	9.752	(0.959)	585888	200.000	218.97(A)
130	Ethyl Acetate	43	4.343	4.343	(0.902)	430445	200.000	173.57
131	Methyl Acrylate	55	4.369	4.369	(0.907)	453745	200.000	186.33
189	n-Butyl acetate	43	7.702	7.702	(0.941)	733335	200.000	209.70(A)
134	Cyclohexanone	55	9.152	9.152	(0.900)	373518	4000.00	3537.61
185	Isoprene	39	2.161	2.161	(0.449)	89602	200.000	207.42(A)
188	Isopropyl acetate	43	5.284	5.284	(0.951)	1268452	200.000	203.66(A)
150	Allyl alcohol	57	3.346	3.346	(0.695)	379527	4000.00	3819.70
194	Acetaldehyde	44	1.464	1.464	(0.304)	261202	800.000	762.52(M)
195	Methyl Amyl Ketone	43	8.864	8.864	(1.083)	922386	200.000	216.88
200	Dimethyl Disulfide	94	6.746	6.746	(0.825)	470332	200.000	438.88(A)

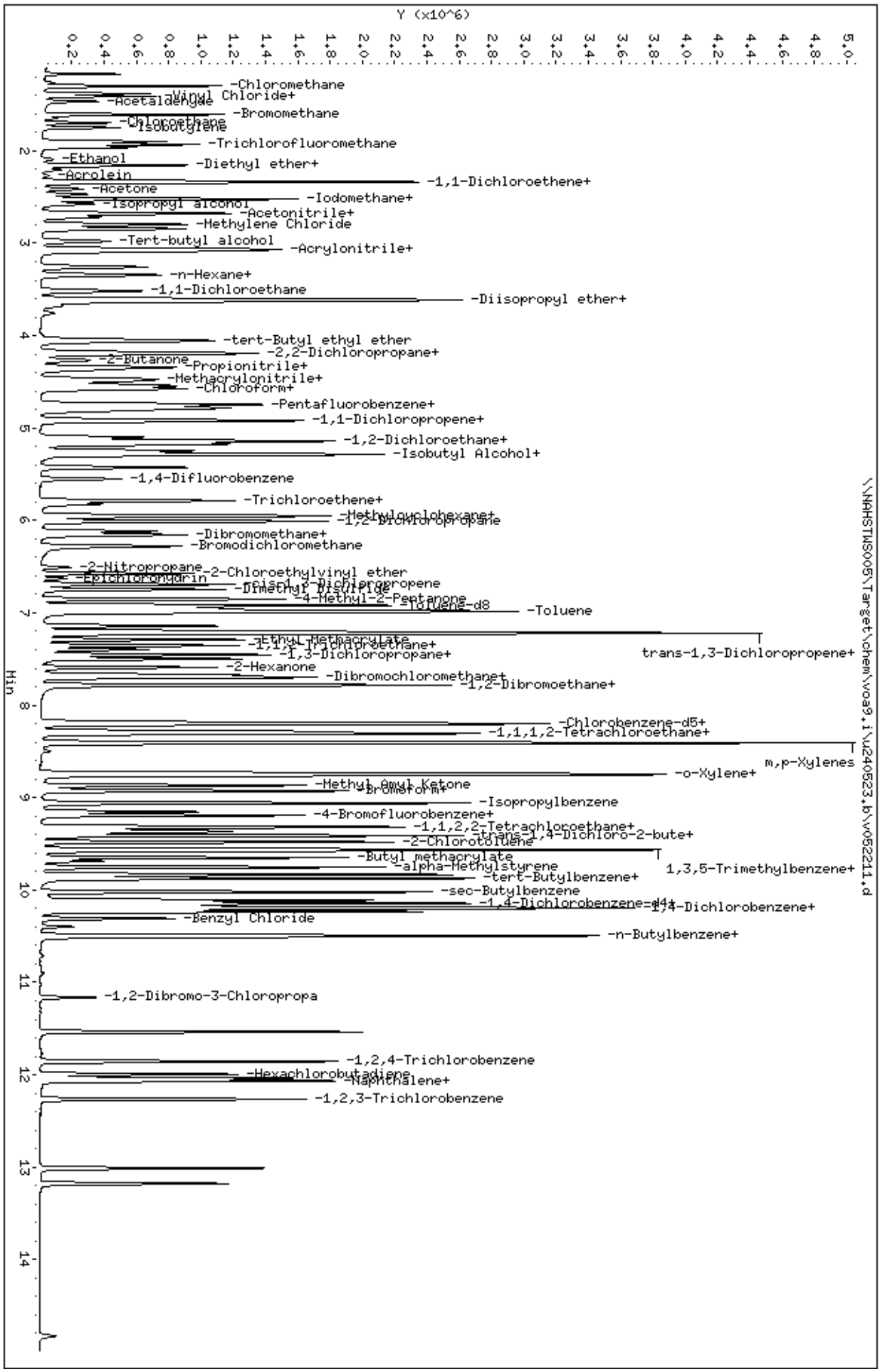
202 Isobutylene	41	1.749	1.749 (0.363)	133462	200.000	229.75(AM)
133 Ethyl Acrylate	55	5.944	5.944 (1.234)	958101	200.000	213.83(A)

Data File: \\nahstws005\Target\chem\voa9.i\U240523.b\V052211.D Page 4
Report Date: 23-May-2024 09:51

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
163 Butyl methacrylate	41	9.647	9.647	(0.949)	474934	200.000	191.14
159 Propylene oxide	43	2.202	2.202	(0.457)	52739	400.000	274.37(A)
203 2-Ethylhexyl Acrylate	55	12.039	12.039	(1.184)	486134	200.000	274.03(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.



Data File: \\NAHSTWS005\Target\chem\voa9.i\u240523.b\v052211.d
Date : 22-MAY-2024 23:36
Client ID: VSTD200
Sample Info: VSTD200;VSTD200;1;10
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9.i
Operator: FT
Column diameter: 0.18

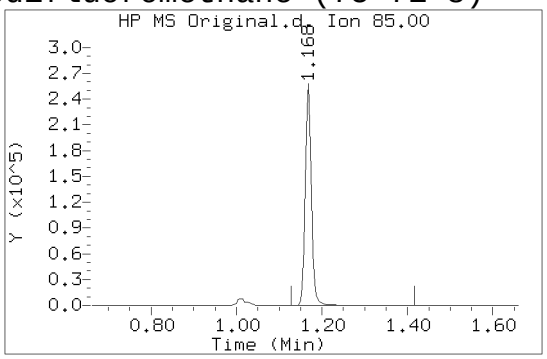
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Inj Date : 22-MAY-2024 23:36
InstruID : VOA9.i
LabSampID : VSTD200

Dichlorodifluoromethane (75-71-8)

Reason Code:

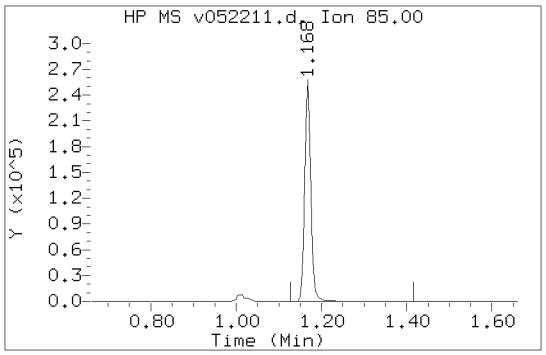
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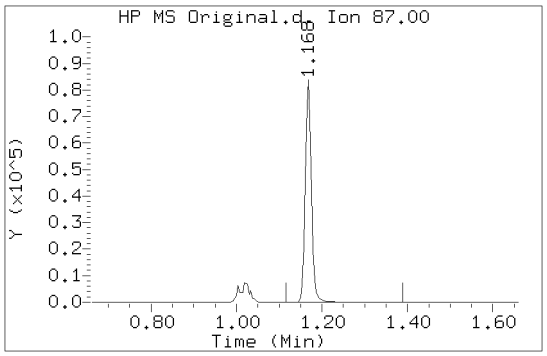
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23-May-2024
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tastan



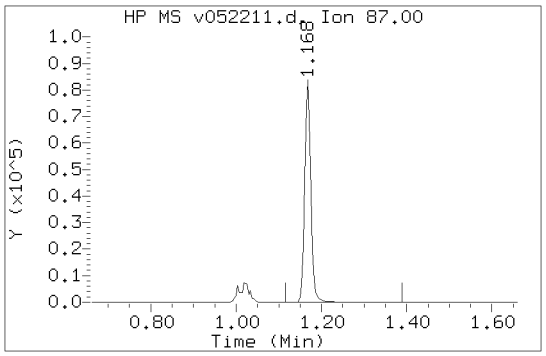
BEFORE

MASS
87
AREA
86643
HEIGHT
83792
23-May-2024
09:51
firat
tastan



AFTER

MASS
87
AREA
86643
HEIGHT
83792
23-May-2024
09:51
firat
tastan

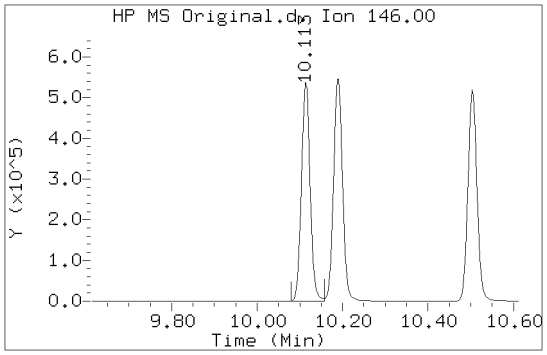


1,3-Dichlorobenzene (541-73-1)

Reason Code:

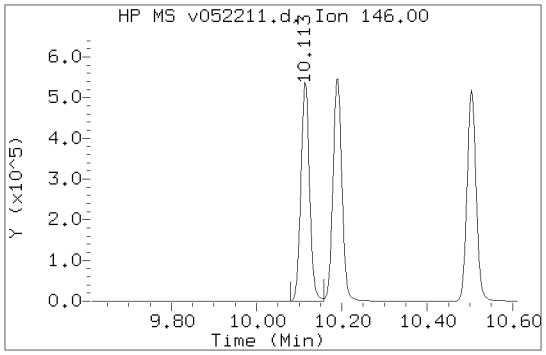
BEFORE

MASS
146
AREA
778320
HEIGHT
538416
23-May-2024
09:51
firat
tastan



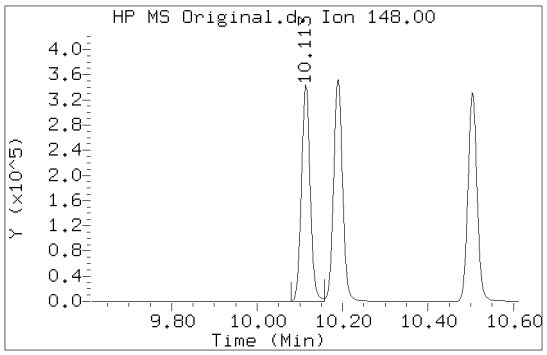
AFTER

MASS
146
AREA
778320
HEIGHT
538416
23-May-2024
09:51
firat
tastan



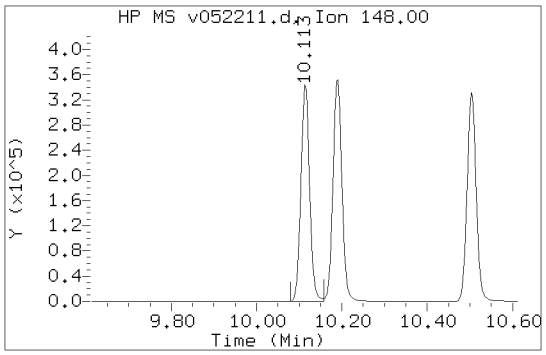
BEFORE

MASS
148
AREA
498224
HEIGHT
343264
23-May-2024
09:51
firat
tastan



AFTER

MASS
148
AREA
498224
HEIGHT
343264
23-May-2024
09:51
firat
tastan

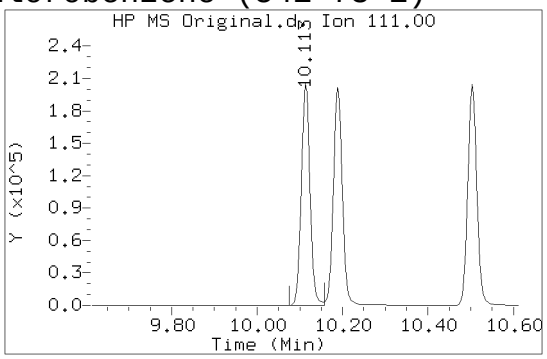


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Inj Date : 22-MAY-2024 23:36
InstruID : VOA9.i
LabSampID : VSTD200

1,3-Dichlorobenzene (541-73-1)

BEFORE

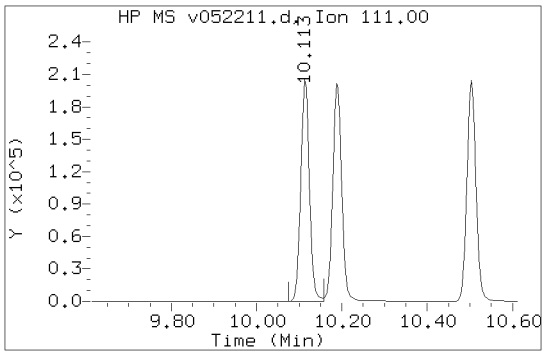
MASS
111
AREA
295566
HEIGHT
205033
23-May-2024
09:51
firat
tastan



Reason Code:

AFTER

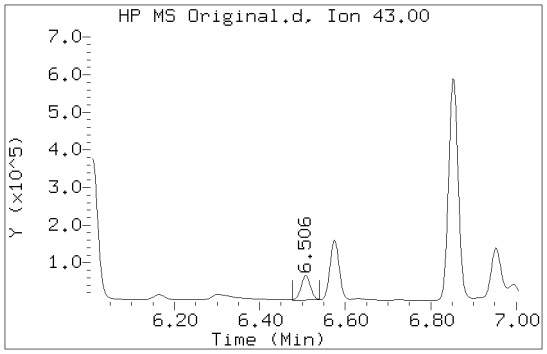
MASS
111
AREA
295566
HEIGHT
205033
23-May-2024
09:51
firat
tastan



2-Nitropropane (79-46-9)

BEFORE

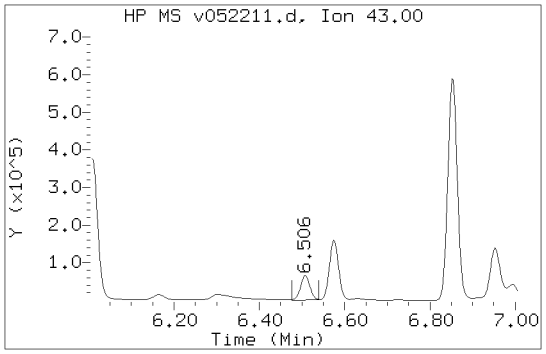
MASS
43
AREA
103519
HEIGHT
65920
23-May-2024
09:51
firat
tastan



Reason Code:

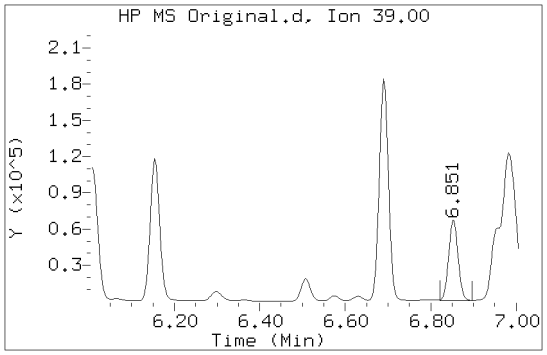
AFTER

MASS
43
AREA
103519
HEIGHT
65920
23-May-2024
09:51
firat
tastan



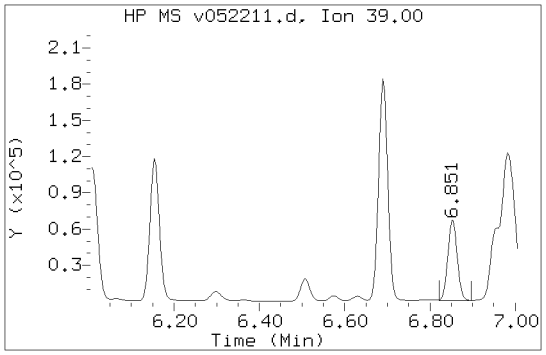
BEFORE

MASS
39
AREA
101574
HEIGHT
66574
23-May-2024
09:51
firat
tastan



AFTER

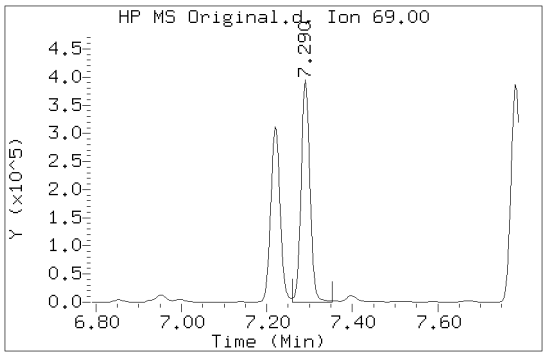
MASS
39
AREA
101574
HEIGHT
66574
23-May-2024
09:51
firat
tastan



Ethyl Methacrylate (97-63-2)

BEFORE

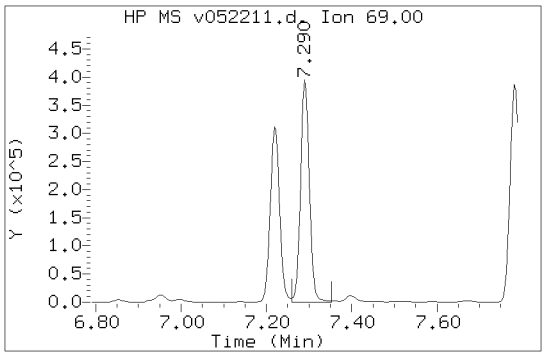
MASS
69
AREA
576848
HEIGHT
394745
23-May-2024
09:51
firat
tastan



Reason Code:

AFTER

MASS
69
AREA
576848
HEIGHT
394745
23-May-2024
09:51
firat
tastan



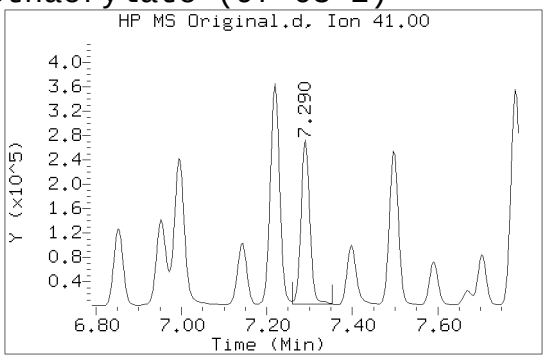
Data File : \\nahstws005\target\chem\voa9.i\u240523.b\v052211.d
Inj Date : 22-MAY-2024 23:36
InstruID : VOA9.i
LabSampID : VSTD200

Ethyl Methacrylate (97-63-2)

Reason Code:

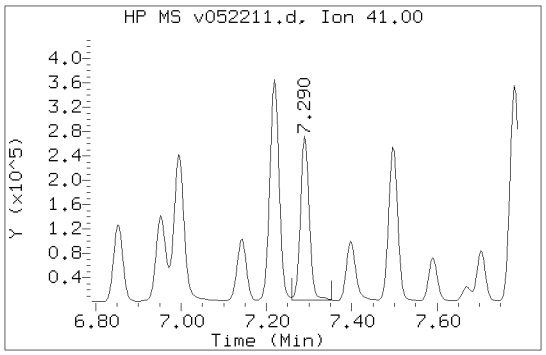
BEFORE

MASS
41
AREA
394659
HEIGHT
269462
23-May-2024
09:51
firat
tastan



AFTER

MASS
41
AREA
394659
HEIGHT
269462
23-May-2024
09:51
firat
tastan

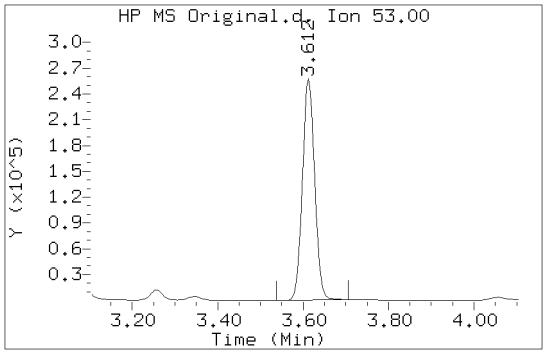


Chloroprene (126-99-8)

Reason Code:

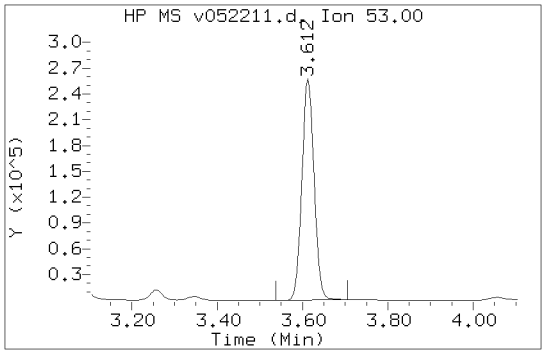
BEFORE

MASS
53
AREA
519657
HEIGHT
257257
23-May-2024
09:51
firat
tastan



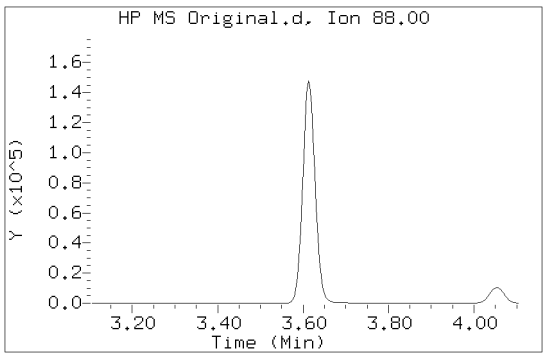
AFTER

MASS
53
AREA
519657
HEIGHT
257257
23-May-2024
09:51
firat
tastan



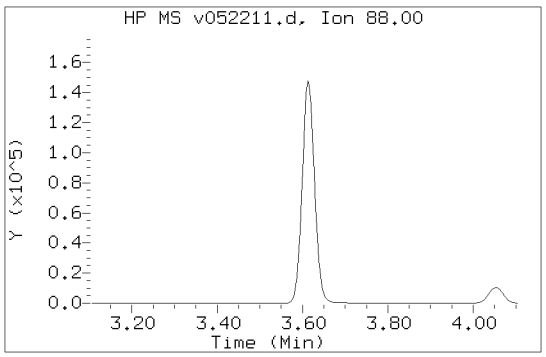
BEFORE

MASS
88
AREA
831
HEIGHT
463
23-May-2024
09:51
firat
tastan



AFTER

MASS
88
AREA
831
HEIGHT
463
23-May-2024
09:51
firat
tastan

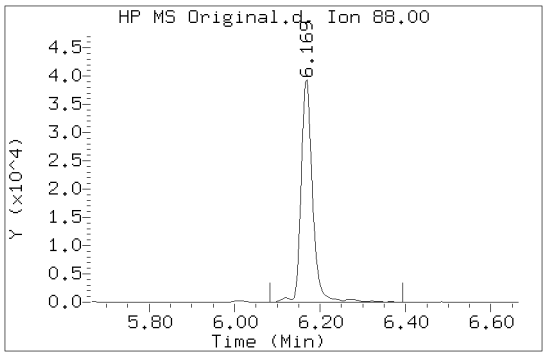


1,4-Dioxane ()

Reason Code:

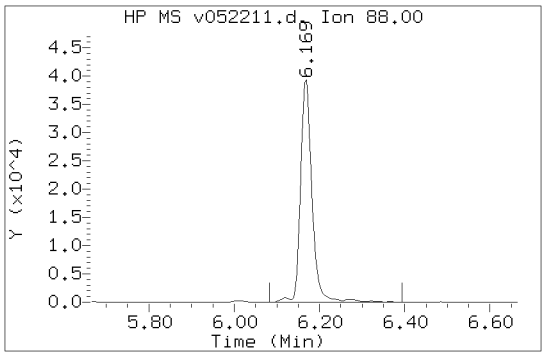
BEFORE

MASS
88
AREA
75607
HEIGHT
39312
23-May-2024
09:51
firat
tastan



AFTER

MASS
88
AREA
75607
HEIGHT
39312
23-May-2024
09:51
firat
tastan



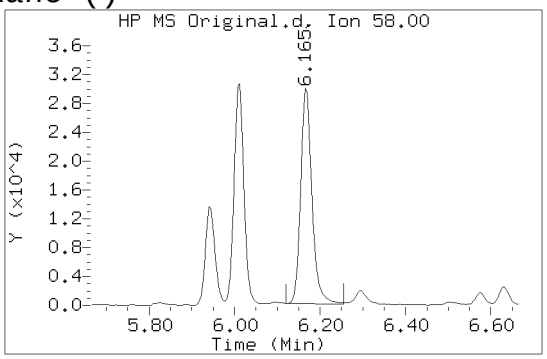
Data File : \\nahstws005\target\chem\voa9.i\u240523.b\v052211.d
Inj Date : 22-MAY-2024 23:36
InstruID : VOA9.i
LabSampID : VSTD200

1,4-Dioxane ()

Reason Code:

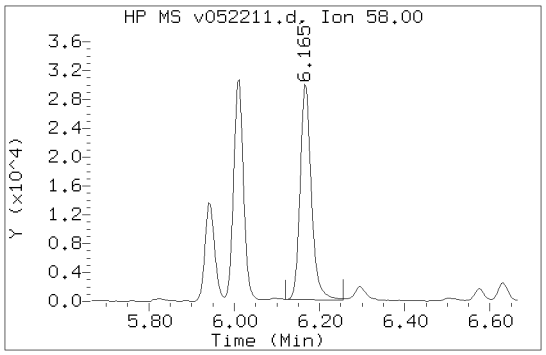
BEFORE

MASS
58
AREA
55863
HEIGHT
29945
23-May-2024
09:51
firat
tastan



AFTER

MASS
58
AREA
55863
HEIGHT
29945
23-May-2024
09:51
firat
tastan

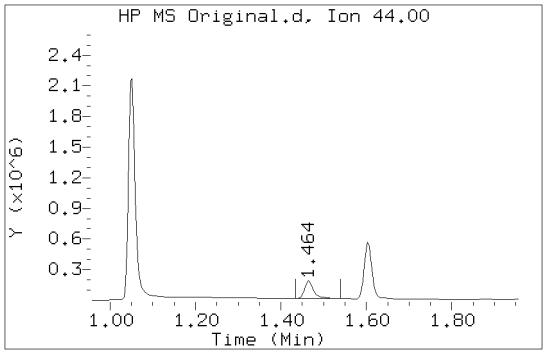


Acetaldehyde (75-07-0)

Reason Code:

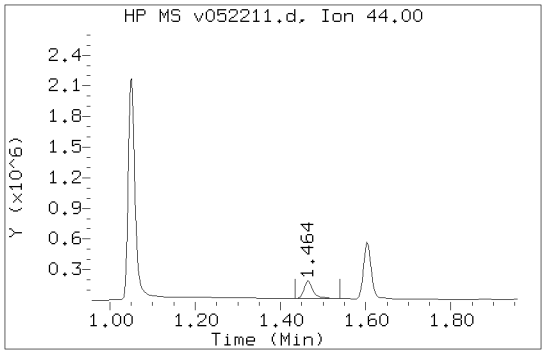
BEFORE

MASS
44
AREA
261202
HEIGHT
176490
23-May-2024
09:51
firat
tastan



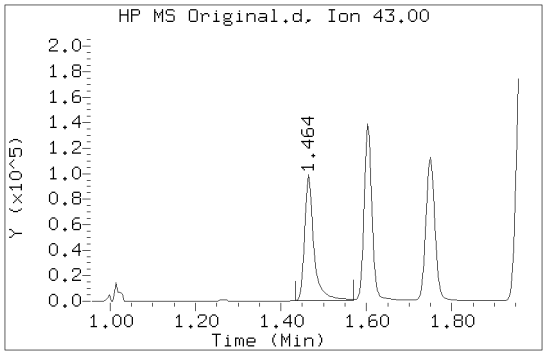
AFTER

MASS
44
AREA
261202
HEIGHT
176490
23-May-2024
09:51
firat
tastan



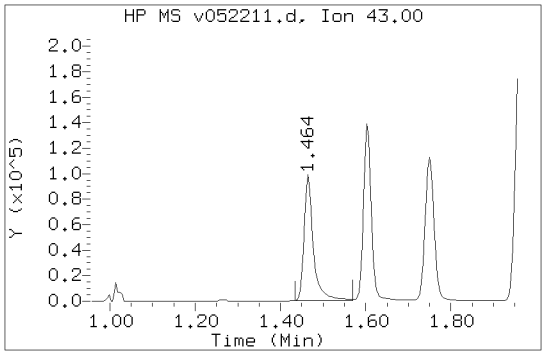
BEFORE

MASS
43
AREA
153533
HEIGHT
98953
23-May-2024
09:51
firat
tastan



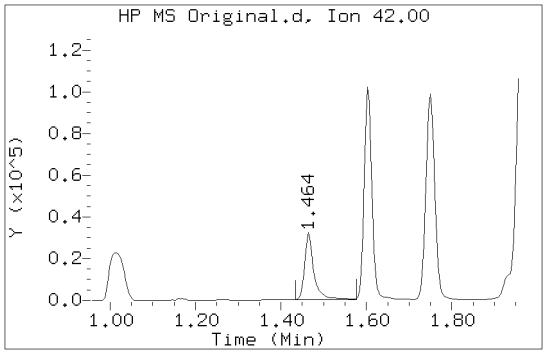
AFTER

MASS
43
AREA
153533
HEIGHT
98953
23-May-2024
09:51
firat
tastan



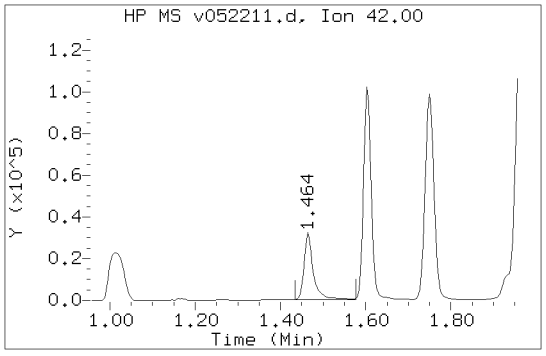
BEFORE

MASS
42
AREA
49680
HEIGHT
32249
23-May-2024
09:51
firat
tastan



AFTER

MASS
42
AREA
49680
HEIGHT
32249
23-May-2024
09:51
firat
tastan



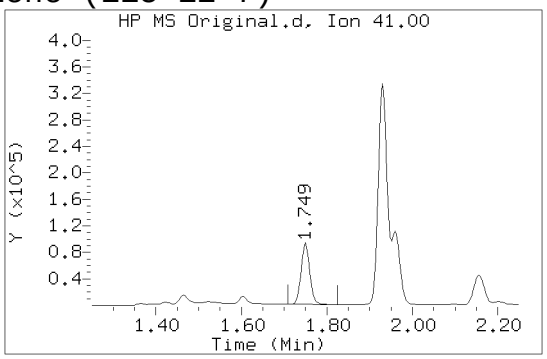
Data File : \\nahstws005\target\chem\voa9.i\u240523.b\v052211.d
Inj Date : 22-MAY-2024 23:36
InstruID : VOA9.i
LabSampID : VSTD200

Isobutylene (115-11-7)

Reason Code:

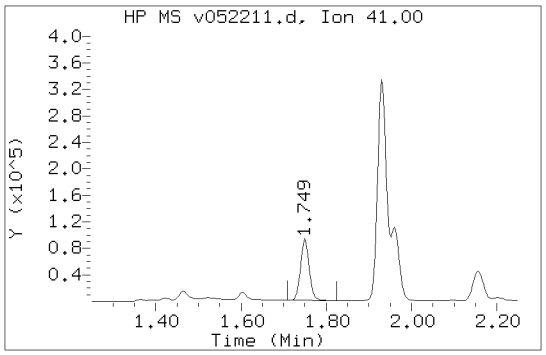
BEFORE

MASS
41
AREA
133462
HEIGHT
92789
23-May-2024
09:51
firat
tastan



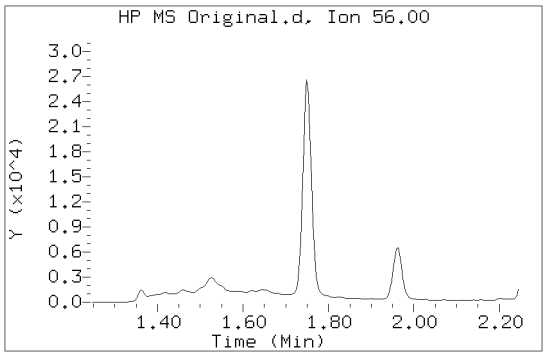
AFTER

MASS
41
AREA
133462
HEIGHT
92789
23-May-2024
09:51
firat
tastan



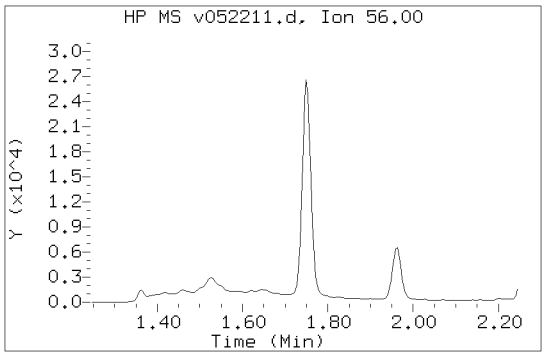
BEFORE

MASS
56
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



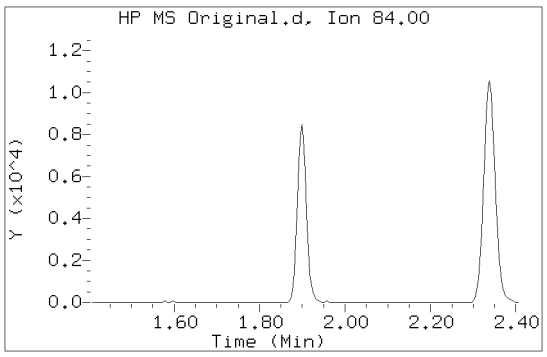
AFTER

MASS
56
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



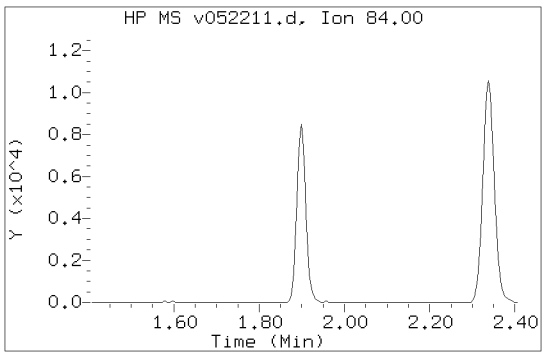
BEFORE

MASS
84
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



AFTER

MASS
84
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



Data File: \\nahstws005\Target\chem\voa9.i\U240523.b\V052213.D Page 1
Report Date: 23-May-2024 10:05

ALS Laboratory Group

Data file : \\nahstws005\Target\chem\voa9.i\U240523.b\V052213.D
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 23-MAY-2024 00:19
Operator : FT Inst ID: VOA9.i
Smp Info : BFB;BFB;3;;BFB
Misc Info : V9;WATER;0;1;
Comment :
Method : \\nahstws005\Target\chem\voa9.i\U240523.b\bfb.m
Meth Date : 27-Jan-2023 08:08 apoluri Quant Type: ISTD
Cal Date : 30-MAR-2018 18:09 Cal File: U033003.d
Als bottle: 40 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: NAHSTW7066

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	FINAL		
RT	EXP RT	REL RT	MASS	RESPONSE	(ug/L)	(ug/l)	TARGET RANGE	RATIO
1 bfb						CAS #: 460-00-4		
9.190	9.180	(0.000)	95	55384			0.00- 100.00	100.00
9.190	9.180	(0.000)	50	10560			15.00- 40.00	19.07
9.190	9.180	(0.000)	75	27168			30.00- 60.00	49.05
9.190	9.180	(0.000)	96	3840			5.00- 9.00	6.93
9.190	9.180	(0.000)	173	0	0.0	0.0	0.00- 2.00	0.00
9.190	9.180	(0.000)	174	45424			50.00- 0.00	82.02
9.190	9.180	(0.000)	175	4058			5.00- 9.00	8.93
9.190	9.180	(0.000)	176	44520			95.00- 101.00	98.01
9.190	9.180	(0.000)	177	3139			5.00- 9.00	7.05

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	19.07
75	30.00 - 60.00% of mass 95	49.05
96	5.00 - 9.00% of mass 95	6.93
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	82.02
175	5.00 - 9.00% of mass 174	7.33 (8.93)
176	95.00 - 101.00% of mass 174	80.38 (98.01)
177	5.00 - 9.00% of mass 176	5.67 (7.05)

Data File: V052213.D
Spectrum: Scan 2292 (9.18)
Location of Maximum: 95.05
Number of points: 82

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	597	60.00	519	87.00	2712	130.60	56
37.00	2836	61.00	2531	88.00	2266	134.80	116
38.10	2622	62.00	2488	90.90	237	136.70	95
39.00	1123	63.00	1846	92.00	1508	140.00	79
40.00	196	64.00	220	93.00	2219	140.90	558
40.80	64	65.00	227	94.10	6749	141.90	73
41.90	64	67.00	165	95.00	55384	142.90	511
42.90	61	68.00	5698	96.00	3840	145.80	108
44.00	469	69.00	5429	97.00	182	147.90	158
45.10	571	70.00	454	103.80	243	154.80	151
46.10	91	72.00	279	105.00	71	157.00	93
47.00	963	73.00	2440	105.80	161	158.90	83
48.00	405	74.00	9057	110.90	53	170.60	54
49.00	2411	75.00	27168	114.80	63	172.00	244
50.00	10560	76.00	2593	115.90	198	173.90	45424
51.00	3320	77.00	436	116.80	310	175.00	4058
52.00	209	77.90	284	117.80	187	175.90	44520
55.10	157	78.90	1360	118.90	228	176.90	3139
56.00	769	79.90	465	127.80	188	177.90	111
57.00	1405	80.90	1396	128.80	112		
58.00	64	81.90	383	129.90	206		

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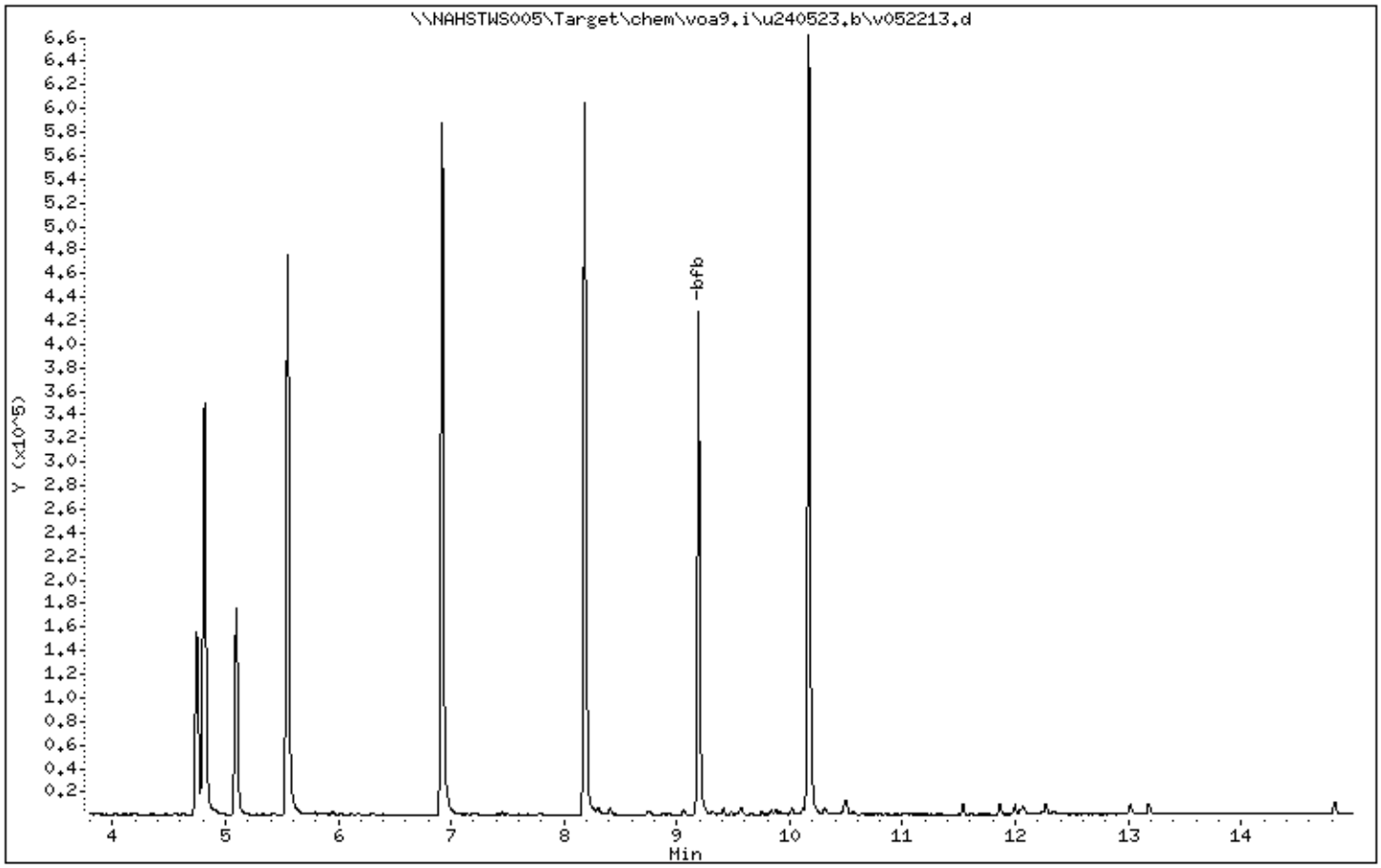
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Client ID: BFB Instrument: VOA9.i

Sample Info: BFB;BFB;3;;BFB

Volume Injected (uL): 2.0 Operator: FT

Column phase: DB624 Column diameter: 0.25



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InstruID : VOA9.i
LabSampID : BFB

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240523.b\V052214.D Page 1
Report Date: 30-May-2024 15:52

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240523.b\V052214.D
Lab Smp Id: VSTD050 Client Smp ID: VSTD050
Inj Date : 23-MAY-2024 00:40
Operator : FT Inst ID: VOA9.i
Smp Info : VSTD050
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240523.b\8260C.m
Meth Date : 30-May-2024 15:51 s.zaid Quant Type: ISTD
Cal Date : 22-MAY-2024 23:36 Cal File: V052211.D
Als bottle: 41 QC Sample: METHSPIKE
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7014

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	4.811	4.811	(1.000)	256774	50.0000	
2 Dichlorodifluoromethane	85	1.160	1.160	(0.241)	59672	43.5593	43.55
3 Chloromethane	50	1.291	1.291	(0.268)	192742	40.3428	40.34
4 Propionitrile	54	4.332	4.332	(0.900)	132887	517.220	517.21
5 Vinyl Chloride	62	1.374	1.374	(0.286)	98648	42.4217	42.42
6 Bromomethane	94	1.614	1.614	(0.335)	42052	59.9217	59.92(M)
7 Chloroethane	64	1.696	1.696	(0.353)	67224	41.0051	41.00
8 Trichlorofluoromethane	101	1.891	1.891	(0.393)	117689	44.3426	44.34
9 Acrolein	56	2.262	2.262	(0.470)	8561	88.9912	88.99
10 Acetone	43	2.405	2.405	(0.500)	65032	89.1559	89.15
11 1,1-Dichloroethene	96	2.330	2.330	(0.484)	69327	42.9012	42.90
12 Isobutyl Alcohol	43	5.280	5.280	(1.097)	262424	975.790	975.79
13 Acetonitrile	39	2.667	2.667	(0.554)	91428	431.122	431.12
14 Allyl Chloride	41	2.667	2.667	(0.554)	222311	47.5574	47.55
15 Iodomethane	142	2.465	2.465	(0.512)	45807	136.814	136.81(R)
16 Acrylonitrile	53	3.061	3.061	(0.636)	64289	96.6548	96.65
17 Methylene Chloride	84	2.791	2.791	(0.580)	89327	47.1428	47.14
18 Methyl tert-butyl ether	73	3.076	3.076	(0.639)	215952	49.0879	49.08
19 Carbon Disulfide	76	2.517	2.517	(0.523)	433825	88.7035	88.70
20 trans-1,2-Dichloroethene	96	3.057	3.057	(0.635)	77197	41.6814	41.68

21 Vinyl Acetate	43	4.335	4.335 (0.901)	102908	95.7909	95.79
22 1,1-Dichloroethane	63	3.511	3.511 (0.730)	147412	46.6280	46.62

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240523.b\V052214.D Page 2
Report Date: 30-May-2024 15:52

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
	23 Chloroprene	53	3.604	3.604	(0.749)	121286	42.8445	42.84
	24 2-Butanone	43	4.260	4.260	(0.885)	96483	89.8653	89.86
	25 Methacrylonitrile	41	4.493	4.493	(0.934)	57364	47.4045	47.40(a)
	26 2,2-Dichloropropane	77	4.178	4.178	(0.868)	95496	42.1566	42.15
	27 cis-1,2-Dichloroethene	96	4.193	4.193	(0.871)	94608	42.5705	42.57
	28 Chloroform	83	4.571	4.571	(0.950)	153247	46.6993	46.69
	29 Bromochloromethane	128	4.467	4.467	(0.928)	46588	48.0571	48.05
$	30 Dibromofluoromethane	113	4.744	4.744	(0.986)	80837	48.2575	48.25
	31 1,1,1-Trichloroethane	97	4.740	4.740	(0.985)	117753	45.5007	45.50
	32 1,1-Dichloropropene	75	4.920	4.920	(0.887)	114226	43.7729	43.77
	33 1,2-Dichloroethane	62	5.171	5.171	(0.932)	119851	46.3491	46.34
	34 Carbon Tetrachloride	117	4.909	4.909	(0.885)	94161	44.3980	44.39
$	35 1,2-Dichloroethane-d4	65	5.096	5.096	(1.059)	97161	47.7548	47.75
*	36 1,4-Difluorobenzene	114	5.550	5.550	(1.000)	369512	50.0000	
	37 Benzene	78	5.134	5.134	(0.925)	355683	46.7834	46.78
	38 Trichloroethene	130	5.786	5.786	(1.043)	89483	43.6889	43.68
	39 Bromodichloromethane	83	6.277	6.277	(1.131)	103909	46.1851	46.18
	40 Methyl Methacrylate	41	5.820	5.820	(1.210)	29777	45.0602	45.06
	41 2-Chloroethylvinyl ether	63	6.573	6.573	(1.184)	72299	92.7846	92.78
	42 1,2-Dichloropropane	63	6.007	6.007	(1.082)	94341	45.8455	45.84
	43 2-Nitropropane	43	6.506	6.506	(1.352)	19791	52.3230	52.32
	44 Dibromomethane	93	6.116	6.116	(1.102)	54058	42.4260	42.42
	45 4-Methyl-2-Pentanone	43	6.851	6.851	(0.837)	205245	90.2608	90.26
	46 cis-1,3-Dichloropropene	75	6.689	6.689	(1.205)	127163	49.0040	49.00
*	47 Chlorobenzene-d5	117	8.181	8.181	(1.000)	329651	50.0000	
$	48 Toluene-d8	98	6.918	6.918	(0.846)	299125	48.9458	48.94
	49 Ethyl Methacrylate	69	7.289	7.289	(1.313)	123792	45.4121	45.41
	50 Toluene	91	6.978	6.978	(0.853)	367758	44.1426	44.14
	51 trans-1,3-Dichloropropene	75	7.196	7.196	(1.296)	103705	45.9063	45.90
	52 2-Hexanone	43	7.589	7.589	(0.928)	132702	87.1486	87.14
	53 1,1,2-Trichloroethane	83	7.353	7.353	(0.899)	69294	47.4612	47.46
	54 1,3-Dichloropropane	76	7.495	7.495	(0.916)	151595	48.2648	48.26
	55 Dibromochloromethane	129	7.690	7.690	(0.940)	82603	51.1276	51.12
	56 Tetrachloroethene	164	7.454	7.454	(0.911)	68649	43.7097	43.70
	57 1,2-Dibromoethane	107	7.780	7.780	(0.951)	81597	46.2805	46.28
	58 1-Chlorohexane	55	8.193	8.193	(1.476)	74255	45.2616	45.26
	59 Chlorobenzene	112	8.208	8.208	(1.003)	231374	47.3351	47.33
	60 1,1,1,2-Tetrachloroethane	131	8.279	8.279	(1.012)	80698	46.9216	46.92
	61 Ethylbenzene	106	8.305	8.305	(1.015)	119800	44.8617	44.86
	62 m,p-Xylenes	106	8.406	8.406	(1.027)	300390	91.6060	91.60
	63 o-Xylene	106	8.744	8.744	(1.069)	147141	45.8422	45.84
	64 Styrene	104	8.759	8.759	(1.071)	257090	47.2195	47.21
	66 Bromoform	173	8.916	8.916	(1.090)	51437	46.7164	46.71
	67 Isopropylbenzene	105	9.059	9.059	(1.107)	370164	46.5053	46.50
	68 1,1,2,2-Tetrachloroethane	83	9.325	9.325	(0.917)	116188	48.8473	48.84
$	69 4-Bromofluorobenzene	95	9.190	9.190	(1.123)	112378	49.5838	49.58
*	70 1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	175372	50.0000	
	71 1,2,3-Trichloropropane	75	9.359	9.359	(0.920)	116429	48.0039	48.00
	72 trans-1,4-Dichloro-2-butene	53	9.374	9.374	(1.146)	24309	45.5778	45.57
	73 n-Propylbenzene	91	9.407	9.407	(0.925)	428843	47.3461	47.34
	74 Bromobenzene	156	9.314	9.314	(0.916)	100354	43.5092	43.50
	75 1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	303955	48.6254	48.62

76	2-Chlorotoluene	91	9.478	9.478 (0.932)	261138	44.4940	44.49
77	4-Chlorotoluene	91	9.572	9.572 (0.941)	303229	45.3659	45.36

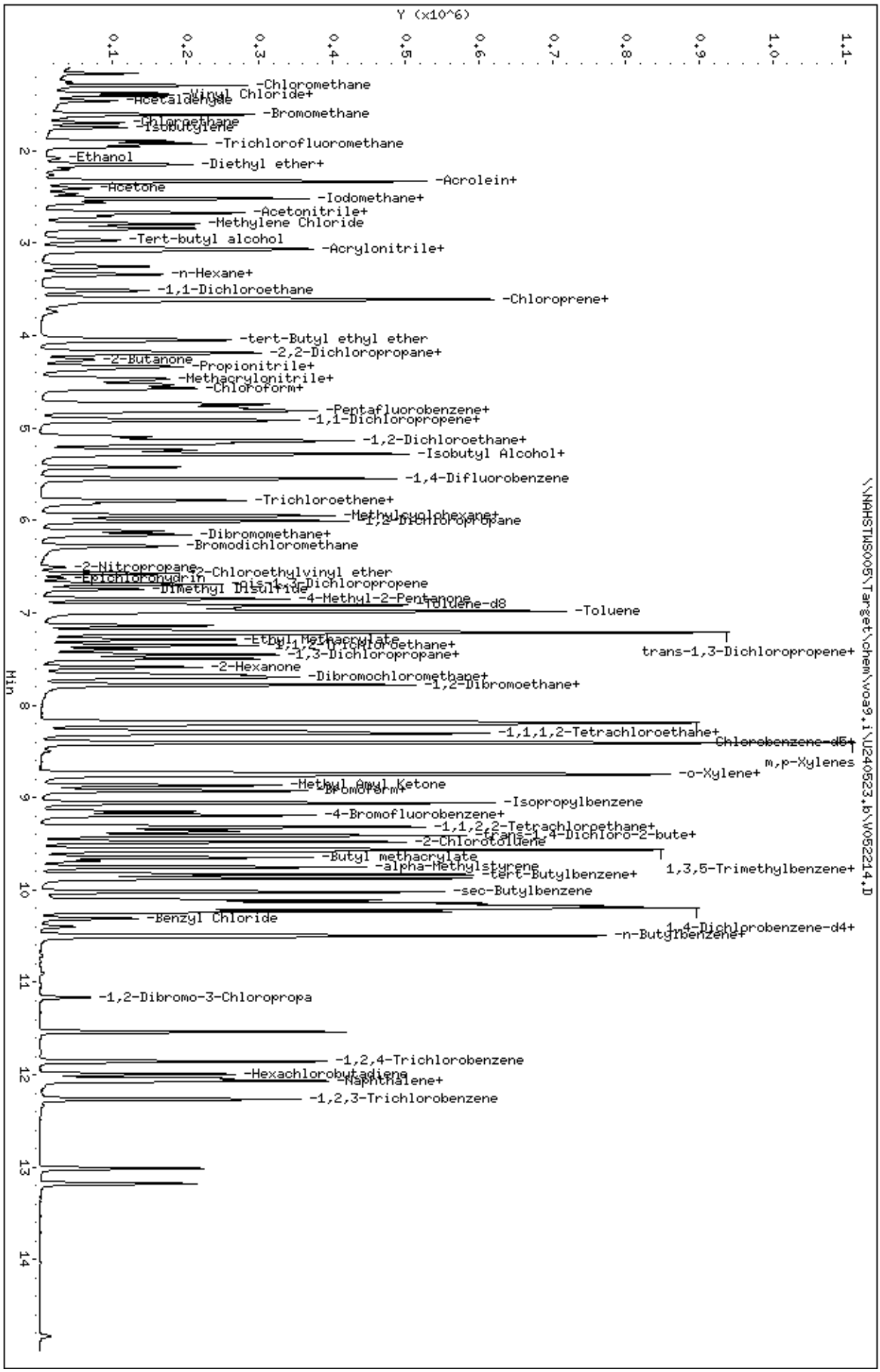
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
78	tert-Butylbenzene	119	9.835	9.835	(0.967)	260301	47.4705	47.47
79	1,2,4-Trimethylbenzene	105	9.876	9.876	(0.971)	301186	46.9691	46.96
81	sec-Butylbenzene	105	10.018	10.018	(0.985)	353775	48.5521	48.55
82	p-Isopropyltoluene	119	10.142	10.142	(0.997)	310891	49.0039	49.00
83	1,3-Dichlorobenzene	146	10.112	10.112	(0.994)	177998	48.0431	48.04
84	1,4-Dichlorobenzene	146	10.187	10.187	(1.002)	183767	47.6271	47.62
86	Benzyl Chloride	91	10.307	10.307	(1.260)	89470	42.8619	42.86
87	n-Butylbenzene	91	10.491	10.491	(1.032)	270503	46.2757	46.27
88	1,2-Dichlorobenzene	146	10.502	10.502	(1.033)	176176	48.3301	48.33
89	1,2-Dibromo-3-Chloropropane	155	11.165	11.165	(1.098)	13988	47.0603	47.06
90	1,2,4-Trichlorobenzene	180	11.855	11.855	(1.166)	119999	45.5814	45.58
91	Hexachlorobutadiene	225	11.994	11.994	(1.180)	48550	45.7993	45.79
92	Naphthalene	128	12.065	12.065	(1.187)	277022	49.6057	49.60
93	1,2,3-Trichlorobenzene	180	12.268	12.268	(1.206)	109055	44.4865	44.48
146	Methyl acetate	43	2.708	2.708	(0.563)	96347	47.9929	47.99
138	Freon TF	101	2.333	2.333	(0.485)	128629	46.5222	46.52
141	Cyclohexane	56	4.781	4.781	(0.994)	131730	46.5436	46.54
142	Tetrahydrofuran	42	4.538	4.538	(0.943)	33813	102.774	102.77
147	Methylcyclohexane	55	5.943	5.943	(1.071)	208816	47.0727	47.07
135	1,4-Dioxane	88	6.165	6.165	(1.281)	16722	890.906	890.90
132	n-Butanol	56	5.820	5.820	(1.210)	43068	890.505	890.50
136	n-Hexane	57	3.338	3.338	(0.694)	81430	44.3009	44.30
139	Diethyl ether	59	2.142	2.142	(0.445)	59003	48.3580	48.35
148	Tert-butyl alcohol	59	2.963	2.963	(0.616)	120514	1056.67	1056.66
149	Isopropyl alcohol	45	2.562	2.562	(0.533)	94144	1015.00	1015.00
152	Amyl alcohol	42	7.394	7.394	(0.904)	46565	931.959	931.95
156	Diisopropyl ether	45	3.616	3.616	(0.751)	282898	47.9601	47.96
162	Butyl acrylate	55	8.729	8.729	(1.067)	158132	45.3553	45.35
187	n-Amyl acetate	43	8.927	8.927	(1.091)	153412	46.6806	46.68
164	Dicyclopentadiene	66	10.198	10.198	(1.003)	379168	49.4423	49.44
166	1,2,3-Trimethylbenzene	105	10.232	10.232	(1.006)	287223	48.3048	48.30
167	Ethanol	45	2.079	2.079	(0.432)	18144	1012.61	1012.61
172	tert-Butyl formate	59	5.239	5.239	(1.089)	108746	97.1373	97.13
173	3,3-Dimethyl-1-butanol	57	7.777	7.777	(0.951)	178917	1020.80	1020.80
174	tert-Amyl methyl ether	73	5.284	5.284	(1.098)	255340	44.9634	44.96
175	tert-Butyl ethyl ether	59	4.047	4.047	(0.841)	255428	44.7481	44.74
176	tert-Amyl alcohol	59	5.239	5.239	(1.089)	108746	955.730	955.72
151	4-Methyl-2-pentanol	45	7.214	7.214	(1.300)	514919	931.875	931.87
140	1,3-Butadiene	54	1.400	1.400	(0.291)	46335	45.6715	45.67
182	Epichlorohydrin	57	6.629	6.629	(1.195)	23633	199.194	199.19
M 94	1,2-Dichloroethylene (total)	96				171805	84.3327	84.33
M 95	Xylenes (total)	106				447531	135.752	135.75
145	alpha-Methylstyrene	118	9.752	9.752	(0.959)	125019	48.6605	48.66
130	Ethyl Acetate	43	4.335	4.335	(0.901)	102908	47.9401	47.94
131	Methyl Acrylate	55	4.365	4.365	(0.907)	106805	48.5323	48.53
189	n-Butyl acetate	43	7.702	7.702	(0.941)	149948	44.1175	44.11
134	Cyclohexanone	55	9.149	9.149	(0.900)	82981	883.288	883.28
185	Isoprene	39	2.154	2.154	(0.448)	19937	45.6770	45.67
188	Isopropyl acetate	43	5.280	5.280	(0.951)	262618	49.1593	49.15
150	Allyl alcohol	57	3.338	3.338	(0.694)	81430	886.019	886.01
194	Acetaldehyde	44	1.456	1.456	(0.303)	62845	181.573	181.57(M)
195	Methyl Amyl Ketone	43	8.864	8.864	(1.083)	181078	43.8085	43.80

200 Dimethyl Disulfide	94	6.742	6.742 (0.824)	54766	47.9378	47.93
202 Isobutylene	41	1.749	1.749 (0.364)	28670	45.6668	45.66(M)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
133 Ethyl Acrylate	55	5.943	5.943	(1.235)	208816	46.1239	46.12
163 Butyl methacrylate	41	9.647	9.647	(0.949)	94541	48.2574	48.25
159 Propylene oxide	43	2.199	2.199	(0.457)	14328	105.820	105.81
203 2-Ethylhexyl Acrylate	55	12.039	12.039	(1.184)	84876	49.5540	49.55

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.



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Sample Info: VSTD050
Purge Volume: 5.0
Column phase: DB624

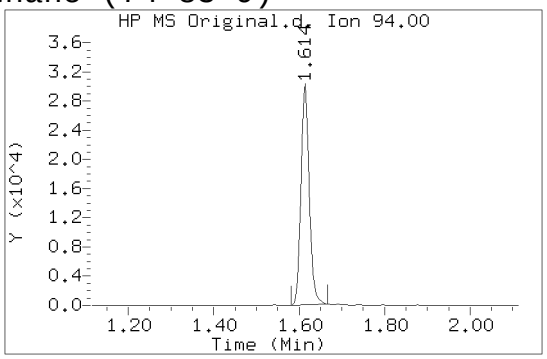
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Operator: FT
Column diameter: 0.18

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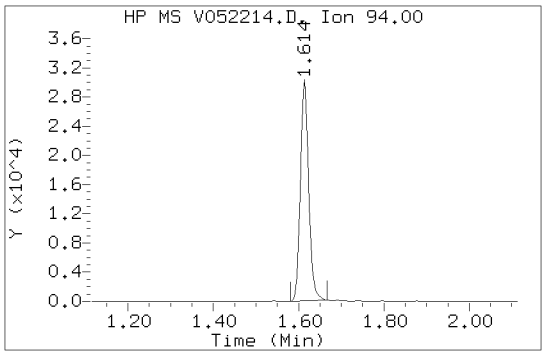
Bromomethane (74-83-9)

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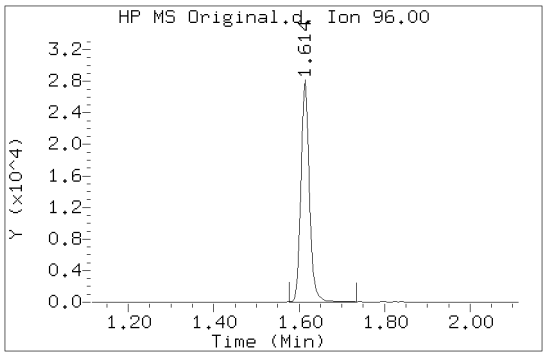
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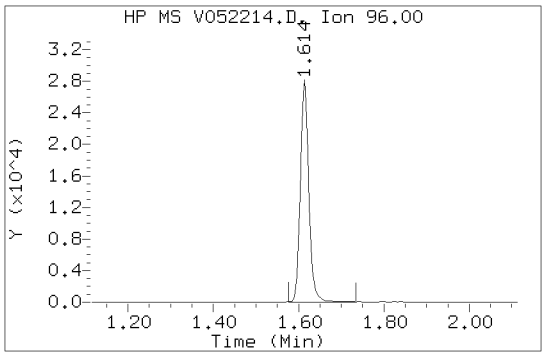
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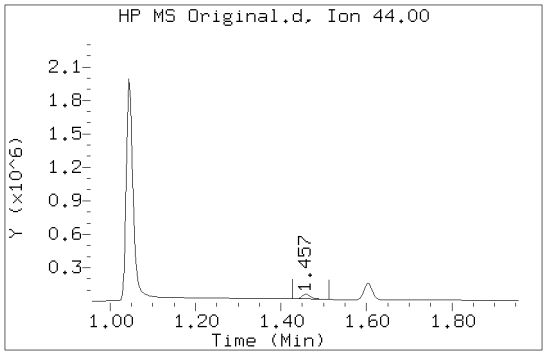
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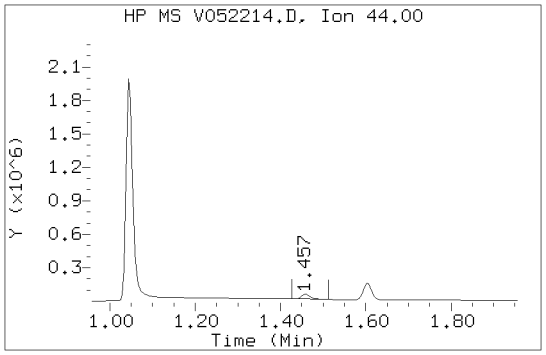
Acetaldehyde (75-07-0)

Reason Code:

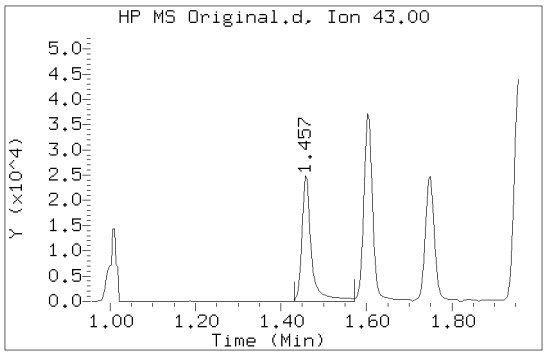
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44
AREA
62845
HEIGHT
42910
23-May-2024
10:10
firat
tastan



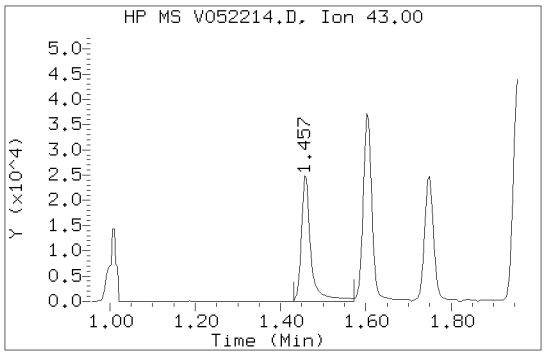
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30-May-2024
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BEFORE
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23-May-2024
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AFTER
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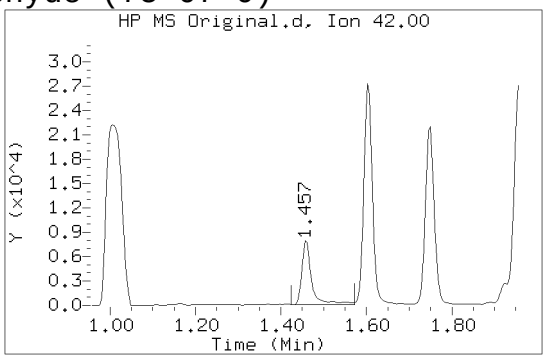


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LabSampID : VSTD050

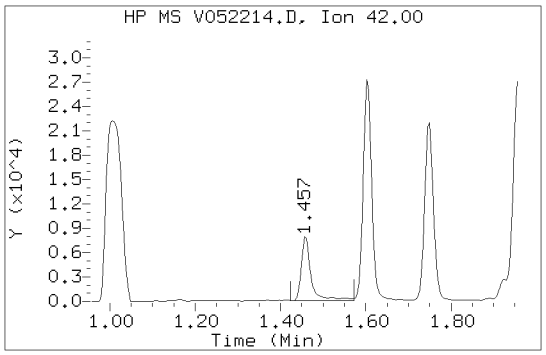
Acetaldehyde (75-07-0)

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23-May-2024
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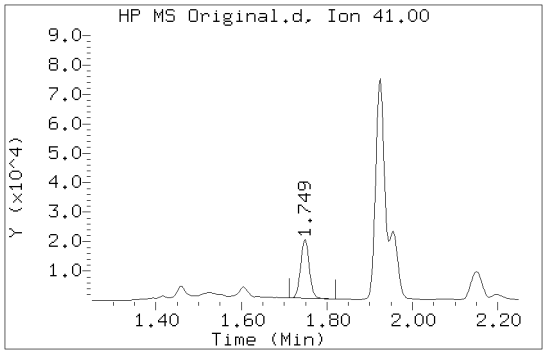
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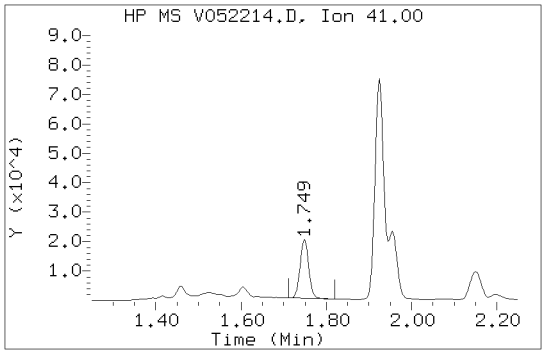
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Reason Code:

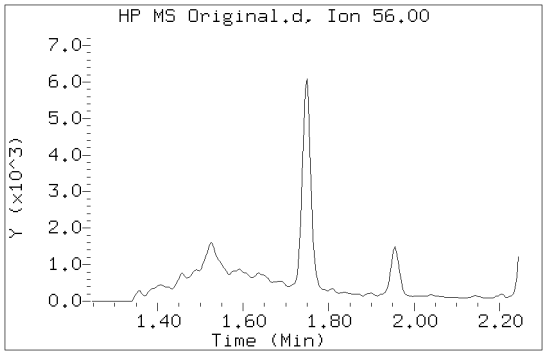
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23-May-2024
10:10
firat
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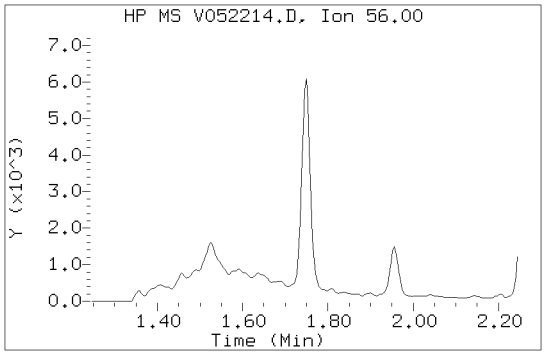
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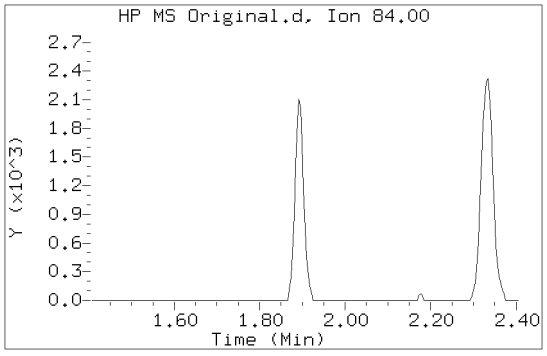
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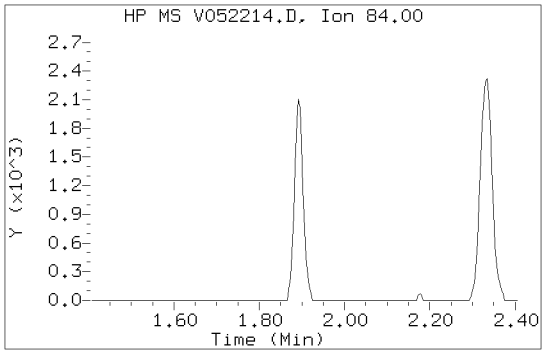
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BEFORE
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HEIGHT
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23-May-2024
10:10
firat
tastan



AFTER
MASS
84
AREA
0
HEIGHT
0
30-May-2024
15:52
firat



right solutions.
right partner.

RawData

<textMethods>

Workorder

HS24051300

Client

Bhate Environmental Associates, Inc.

Project

LHAAP Site 50

06/22/2024

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\voa9.i\U240524.b\U052401.D Page 1
Report Date: 24-May-2024 12:55

ALS Laboratory Group

Data file : \\nahstws005\Target\chem\voa9.i\U240524.b\U052401.D
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 24-MAY-2024 12:08
Operator : FT Inst ID: VOA9.i
Smp Info : BFB;BFB;3;;BFB
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240524.b\bfb.m
Meth Date : 27-Jan-2023 08:08 apoluri Quant Type: ISTD
Cal Date : 30-MAR-2018 18:09 Cal File: U033003.d
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: NAHSTW7066

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)		
RT	EXP RT	REL RT	MASS	RESPONSE			TARGET RANGE	RATIO
1 bfb							CAS #: 460-00-4	
9.194	9.180	(0.000)	95	81928			0.00- 100.00	100.00
9.194	9.180	(0.000)	50	14963			15.00- 40.00	18.26
9.194	9.180	(0.000)	75	38416			30.00- 60.00	46.89
9.194	9.180	(0.000)	96	5291			5.00- 9.00	6.46
9.194	9.180	(0.000)	173	0	0.0	0.0	0.00- 2.00	0.00
9.194	9.180	(0.000)	174	72760			50.00- 0.00	88.81
9.194	9.180	(0.000)	175	6328			5.00- 9.00	8.70
9.194	9.180	(0.000)	176	71552			95.00- 101.00	98.34
9.194	9.180	(0.000)	177	4870			5.00- 9.00	6.81

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	18.26
75	30.00 - 60.00% of mass 95	46.89
96	5.00 - 9.00% of mass 95	6.46
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	88.81
175	5.00 - 9.00% of mass 174	7.72 (8.70)
176	95.00 - 101.00% of mass 174	87.34 (98.34)
177	5.00 - 9.00% of mass 176	5.94 (6.81)

Data File: U052401.D
Spectrum: Scan 2295 (9.19)
Location of Maximum: 95.05
Number of points: 94

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	754	62.00	3572	92.00	2194	134.80	165
37.00	3736	63.00	2786	93.00	3760	136.90	105
38.00	3518	64.00	314	94.10	9557	139.70	79
39.00	1483	65.00	396	95.00	81928	140.90	824
40.00	218	66.00	91	96.00	5291	141.90	120
41.90	53	68.00	7953	97.00	168	143.00	881
43.00	159	69.00	8258	103.90	320	144.80	142
44.00	621	70.00	682	105.00	135	145.80	126
45.00	661	72.00	515	105.80	285	147.90	193
45.70	77	73.00	3437	106.70	104	149.90	79
47.00	1298	74.00	12731	109.90	72	152.70	58
48.10	518	75.00	38416	110.90	64	154.00	91
49.00	3069	76.00	3337	111.80	55	154.90	185
50.00	14963	76.90	550	112.90	91	156.90	169
51.00	4802	78.00	305	114.90	97	158.90	131
52.00	184	78.90	2035	115.90	356	160.80	82
52.80	53	79.90	685	116.90	484	171.90	637
54.10	63	80.90	2082	117.80	291	173.90	72760
55.00	174	81.90	445	118.80	395	175.00	6328
56.00	1210	82.90	70	123.80	82	175.90	71552
57.00	1830	86.00	205	127.90	349	176.90	4870
57.90	128	86.90	3504	129.00	125	177.80	136
60.00	840	87.90	3255	129.90	300		
61.00	3593	90.90	369	131.00	122		

Data File: \\NAHSTWS005\Target\chem\voa9.i\u240524.b\u052401.d Page 1

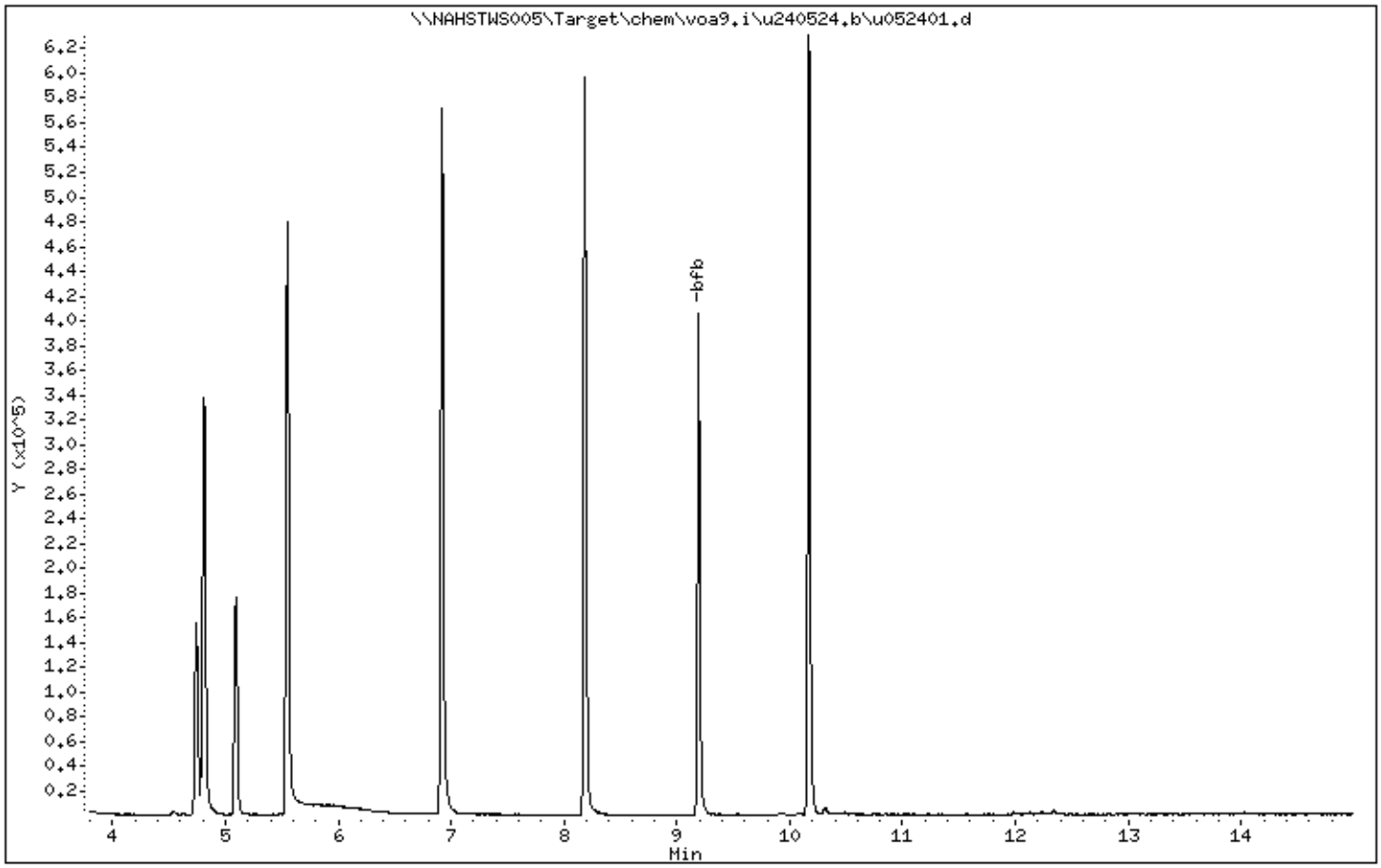
Date : 24-MAY-2024 12:08

Client ID: BFB Instrument: VOA9.i

Sample Info: BFB;BFB;3;;BFB

Volume Injected (uL): 2.0 Operator: FT

Column phase: DB624 Column diameter: 0.25



Data File : \\nahstws005\target\chem\voa9.i\u240524.b\u052401.d
Inj Date : 24-MAY-2024 12:08
InstruID : VOA9.i
LabSampID : BFB

NO MANUAL INTEGRATIONS

Data File: \\nahstws005\Target\chem\voa9.i\U240524.b\U052402A.D Page 1
Report Date: 24-May-2024 15:17

ALS Laboratory Group

Data file : \\nahstws005\Target\chem\voa9.i\U240524.b\U052402A.D
Lab Smp Id: VSTD050 Client Smp ID: VSTD050
Inj Date : 24-MAY-2024 12:52
Operator : FT Inst ID: VOA9.i
Smp Info : VSTD050;VSTD050;2;;CCV
Misc Info : V9;WATER;0;1;
Comment :
Method : \\nahstws005\Target\chem\voa9.i\U240524.b\8260C.m
Meth Date : 24-May-2024 13:09 firat.tast Quant Type: ISTD
Cal Date : 22-MAY-2024 23:36 Cal File: V052211.D
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTWS005

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	4.815	4.815	(1.000)	250537	50.0000	
2 Dichlorodifluoromethane	85	1.168	1.168	(0.243)	62890	50.0000	47.05
3 Chloromethane	50	1.299	1.299	(0.270)	207307	50.0000	44.83
4 Propionitrile	54	4.339	4.339	(0.901)	132170	500.000	526.87
5 Vinyl Chloride	62	1.381	1.381	(0.287)	98276	50.0000	43.31
6 Bromomethane	94	1.610	1.610	(0.334)	36114	50.0000	52.43
7 Chloroethane	64	1.696	1.696	(0.352)	66509	50.0000	41.57
8 Trichlorofluoromethane	101	1.895	1.895	(0.394)	118346	50.0000	45.70
9 Acrolein	56	2.266	2.266	(0.471)	8434	100.000	89.90
10 Acetone	43	2.412	2.412	(0.501)	72518	100.000	102.95
11 1,1-Dichloroethene	96	2.334	2.334	(0.485)	68047	50.0000	43.15
12 Isobutyl Alcohol	43	5.284	5.284	(1.097)	267377	1000.00	1017.24
13 Acetonitrile	39	2.675	2.675	(0.556)	83639	500.000	404.21(M)
14 Allyl Chloride	41	2.675	2.675	(0.556)	207080	50.0000	45.41
15 Iodomethane	142	2.469	2.469	(0.513)	29106	100.000	94.19
16 Acrylonitrile	53	3.068	3.068	(0.637)	62467	100.000	96.25
17 Methylene Chloride	84	2.795	2.795	(0.580)	88397	50.0000	47.83
18 Methyl tert-butyl ether	73	3.083	3.083	(0.640)	195401	50.0000	45.54
19 Carbon Disulfide	76	2.521	2.521	(0.524)	418007	100.000	87.59
20 trans-1,2-Dichloroethene	96	3.061	3.061	(0.636)	76587	50.0000	42.38

21 Vinyl Acetate	43	4.343	4.343 (0.902)	108108	100.000	103.07
22 1,1-Dichloroethane	63	3.514	3.514 (0.730)	144761	50.0000	46.92

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
23	Chloroprene	53	3.608	3.608	(0.749)	120639	50.0000	43.67
24	2-Butanone	43	4.268	4.268	(0.886)	106229	100.000	101.43
25	Methacrylonitrile	41	4.497	4.497	(0.934)	55210	50.0000	46.77(a)
26	2,2-Dichloropropane	77	4.185	4.185	(0.869)	102954	50.0000	46.58
27	cis-1,2-Dichloroethene	96	4.197	4.197	(0.872)	92430	50.0000	42.62
28	Chloroform	83	4.575	4.575	(0.950)	151655	50.0000	47.36
29	Bromochloromethane	128	4.470	4.470	(0.928)	46357	50.0000	49.01
$ 30	Dibromofluoromethane	113	4.748	4.748	(0.986)	91811	50.0000	56.13
31	1,1,1-Trichloroethane	97	4.744	4.744	(0.985)	117598	50.0000	46.57
32	1,1-Dichloropropene	75	4.920	4.920	(0.886)	112182	50.0000	44.06
33	1,2-Dichloroethane	62	5.175	5.175	(0.932)	120564	50.0000	47.80
34	Carbon Tetrachloride	117	4.913	4.913	(0.885)	94786	50.0000	45.81
$ 35	1,2-Dichloroethane-d4	65	5.096	5.096	(1.058)	110632	50.0000	55.81
* 36	1,4-Difluorobenzene	114	5.554	5.554	(1.000)	360480	50.0000	
37	Benzene	78	5.138	5.138	(0.925)	351681	50.0000	47.41
38	Trichloroethene	130	5.786	5.786	(1.042)	87604	50.0000	43.84
39	Bromodichloromethane	83	6.277	6.277	(1.130)	102020	50.0000	46.48
40	Methyl Methacrylate	41	5.824	5.824	(1.209)	32026	50.0000	49.51
41	2-Chloroethylvinyl ether	63	6.577	6.577	(1.184)	70813	100.000	93.13
42	1,2-Dichloropropane	63	6.007	6.007	(1.082)	95435	50.0000	47.54
43	2-Nitropropane	43	6.510	6.510	(1.352)	19699	50.0000	53.28
44	Dibromomethane	93	6.120	6.120	(1.102)	55525	50.0000	44.66
45	4-Methyl-2-Pentanone	43	6.851	6.851	(0.837)	218589	100.000	97.06
46	cis-1,3-Dichloropropene	75	6.690	6.690	(1.205)	128621	50.0000	50.80
* 47	Chlorobenzene-d5	117	8.185	8.185	(1.000)	326475	50.0000	
$ 48	Toluene-d8	98	6.922	6.922	(0.846)	359087	50.0000	59.32
49	Ethyl Methacrylate	69	7.289	7.289	(1.312)	116981	50.0000	43.98
50	Toluene	91	6.978	6.978	(0.853)	366759	50.0000	44.45
51	trans-1,3-Dichloropropene	75	7.196	7.196	(1.296)	105438	50.0000	47.73
52	2-Hexanone	43	7.589	7.589	(0.927)	141435	100.000	93.78
53	1,1,2-Trichloroethane	83	7.353	7.353	(0.898)	70762	50.0000	48.95
54	1,3-Dichloropropane	76	7.496	7.496	(0.916)	151187	50.0000	48.60
55	Dibromochloromethane	129	7.691	7.691	(0.940)	80391	50.0000	50.24
56	Tetrachloroethene	164	7.454	7.454	(0.911)	70788	50.0000	45.51
57	1,2-Dibromoethane	107	7.784	7.784	(0.951)	82974	50.0000	47.51
58	1-Chlorohexane	55	8.193	8.193	(1.475)	75505	50.0000	47.18
59	Chlorobenzene	112	8.208	8.208	(1.003)	232148	50.0000	47.96
60	1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	78784	50.0000	46.25
61	Ethylbenzene	106	8.305	8.305	(1.015)	118024	50.0000	44.62
62	m,p-Xylenes	106	8.407	8.407	(1.027)	300052	100.000	92.39
63	o-Xylene	106	8.744	8.744	(1.068)	146833	50.0000	46.19
64	Styrene	104	8.759	8.759	(1.070)	256373	50.0000	47.54
66	Bromoform	173	8.916	8.916	(1.089)	49391	50.0000	45.39
67	Isopropylbenzene	105	9.063	9.063	(1.107)	367787	50.0000	46.65
68	1,1,2,2-Tetrachloroethane	83	9.325	9.325	(0.917)	121638	50.0000	50.59
$ 69	4-Bromofluorobenzene	95	9.190	9.190	(1.123)	132537	50.0000	59.11
* 70	1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	177240	50.0000	
71	1,2,3-Trichloropropane	75	9.359	9.359	(0.920)	121590	50.0000	49.56
72	trans-1,4-Dichloro-2-butene	53	9.374	9.374	(1.145)	25827	50.0000	48.77
73	n-Propylbenzene	91	9.411	9.411	(0.926)	433395	50.0000	47.34
74	Bromobenzene	156	9.317	9.317	(0.916)	100593	50.0000	43.15
75	1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	304747	50.0000	48.23

76	2-Chlorotoluene	91	9.482	9.482 (0.933)	259471	50.0000	43.74
77	4-Chlorotoluene	91	9.572	9.572 (0.941)	303203	50.0000	44.88

Data File: \\nahstws005\Target\chem\voa9.i\U240524.b\U052402A.D Page 3
Report Date: 24-May-2024 15:17

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
78	tert-Butylbenzene	119	9.835	9.835	(0.967)	259976	50.0000	46.91
79	1,2,4-Trimethylbenzene	105	9.876	9.876	(0.971)	303704	50.0000	46.86
81	sec-Butylbenzene	105	10.022	10.022	(0.986)	350132	50.0000	47.54
82	p-Isopropyltoluene	119	10.146	10.146	(0.998)	312678	50.0000	48.76
83	1,3-Dichlorobenzene	146	10.112	10.112	(0.994)	181642	50.0000	48.50
84	1,4-Dichlorobenzene	146	10.187	10.187	(1.002)	190417	50.0000	48.83
86	Benzyl Chloride	91	10.311	10.311	(1.260)	106155	50.0000	50.91
87	n-Butylbenzene	91	10.491	10.491	(1.032)	276410	50.0000	46.77
88	1,2-Dichlorobenzene	146	10.502	10.502	(1.033)	178607	50.0000	48.48
89	1,2-Dibromo-3-Chloropropane	155	11.166	11.166	(1.098)	14427	50.0000	47.96
90	1,2,4-Trichlorobenzene	180	11.855	11.855	(1.166)	117772	50.0000	44.26
91	Hexachlorobutadiene	225	11.998	11.998	(1.180)	50367	50.0000	46.99
92	Naphthalene	128	12.065	12.065	(1.187)	291384	50.0000	51.62
93	1,2,3-Trichlorobenzene	180	12.268	12.268	(1.206)	111254	50.0000	44.90
146	Methyl acetate	43	2.716	2.716	(0.564)	105014	50.0000	53.70
138	Freon TF	101	2.337	2.337	(0.485)	129586	50.0000	48.03
141	Cyclohexane	56	4.782	4.782	(0.993)	132377	50.0000	47.96
142	Tetrahydrofuran	42	4.545	4.545	(0.944)	32532	100.000	101.37
147	Methylcyclohexane	55	5.947	5.947	(1.071)	204207	50.0000	47.18
135	1,4-Dioxane	88	6.169	6.169	(1.281)	16459	1000.00	898.68
132	n-Butanol	56	5.824	5.824	(1.209)	44088	1000.00	934.28
136	n-Hexane	57	3.342	3.342	(0.694)	90927	50.0000	50.59
139	Diethyl ether	59	2.150	2.150	(0.447)	54072	50.0000	45.44
148	Tert-butyl alcohol	59	2.978	2.978	(0.619)	123350	1000.00	1105.73
149	Isopropyl alcohol	45	2.574	2.574	(0.534)	96136	1000.00	1059.92
152	Amyl alcohol	42	7.398	7.398	(0.904)	50911	1000.00	1023.07
156	Diisopropyl ether	45	3.623	3.623	(0.752)	255747	50.0000	44.43
162	Butyl acrylate	55	8.733	8.733	(1.067)	150294	50.0000	43.52
187	n-Amyl acetate	43	8.928	8.928	(1.091)	159184	50.0000	48.83
164	Dicyclopentadiene	66	10.198	10.198	(1.003)	345378	50.0000	44.61
166	1,2,3-Trimethylbenzene	105	10.232	10.232	(1.006)	266229	50.0000	44.30
167	Ethanol	45	2.094	2.094	(0.435)	18283	1000.00	1044.56
172	tert-Butyl formate	59	5.246	5.246	(1.090)	132983	100.000	119.21
173	3,3-Dimethyl-1-butanol	57	7.780	7.780	(0.951)	191398	1000.00	1097.46
174	tert-Amyl methyl ether	73	5.288	5.288	(1.098)	238188	50.0000	42.98
175	tert-Butyl ethyl ether	59	4.054	4.054	(0.842)	226989	50.0000	40.75
176	tert-Amyl alcohol	59	5.246	5.246	(1.090)	132983	1000.00	1176.73
151	4-Methyl-2-pentanol	45	7.214	7.214	(1.299)	540542	1000.00	1002.75
140	1,3-Butadiene	54	1.408	1.408	(0.292)	46437	50.0000	46.91
182	Epichlorohydrin	57	6.630	6.630	(1.194)	24361	200.000	209.75
M 94	1,2-Dichloroethylene (total)	96				169017	100.000	85.02
M 95	Xylenes (total)	106				446885	150.000	138.95
145	alpha-Methylstyrene	118	9.752	9.752	(0.959)	123401	50.0000	47.52
130	Ethyl Acetate	43	4.343	4.343	(0.902)	108108	50.0000	51.58
131	Methyl Acrylate	55	4.373	4.373	(0.908)	102694	50.0000	47.83
189	n-Butyl acetate	43	7.706	7.706	(0.941)	156964	50.0000	46.63
134	Cyclohexanone	55	9.153	9.153	(0.900)	86411	1000.00	910.29
185	Isoprene	39	2.157	2.157	(0.448)	20047	50.0000	47.07
188	Isopropyl acetate	43	5.284	5.284	(0.951)	268876	50.0000	51.49
150	Allyl alcohol	57	3.342	3.342	(0.694)	90927	1000.00	1011.99
194	Acetaldehyde	44	1.464	1.464	(0.304)	68954	200.000	204.18(M)
195	Methyl Amyl Ketone	43	8.868	8.868	(1.083)	182055	50.0000	44.47

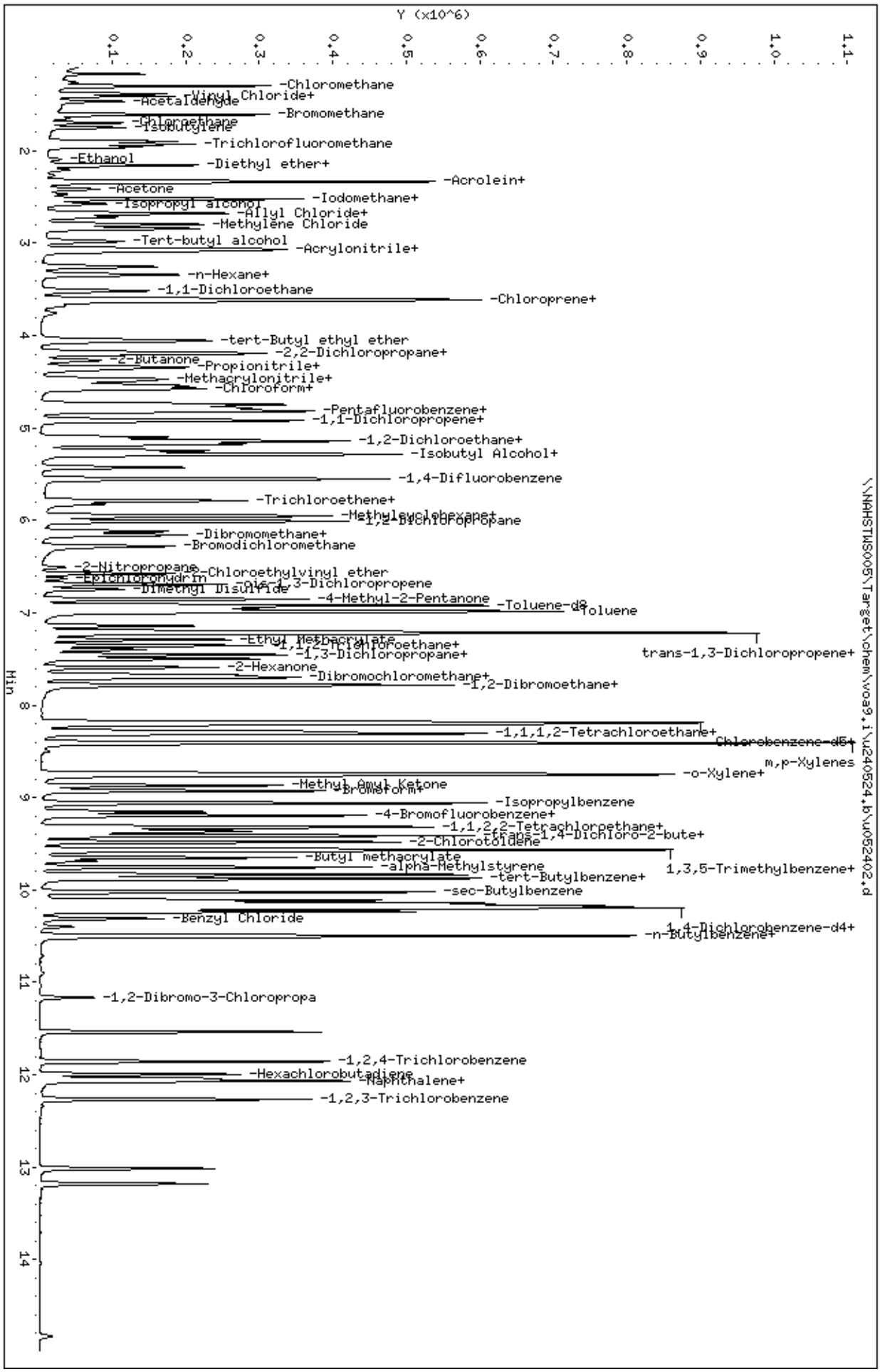
200 Dimethyl Disulfide	94	6.746	6.746 (0.824)	42597	50.0000	38.82
202 Isobutylene	41	1.749	1.749 (0.363)	28486	50.0000	46.47(M)

Data File: \\nahstws005\Target\chem\voa9.i\U240524.b\U052402A.D Page 4
Report Date: 24-May-2024 15:17

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
133 Ethyl Acrylate	55	5.947	5.947	(1.235)	204207	50.0000	46.22
163 Butyl methacrylate	41	9.647	9.647	(0.949)	88746	50.0000	44.86
159 Propylene oxide	43	2.202	2.202	(0.457)	12013	100.000	90.82
203 2-Ethylhexyl Acrylate	55	12.039	12.039	(1.184)	81082	50.0000	47.10

QC Flag Legend

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



Data File: \\NAHSTWS005\Target\chem\voa9.i\u240524.b\u052402.d
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Client ID: VSTD050
Sample Info: VSTD050;VSTD050;2;;CCV
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9.i
Operator: FT
Column diameter: 0.18

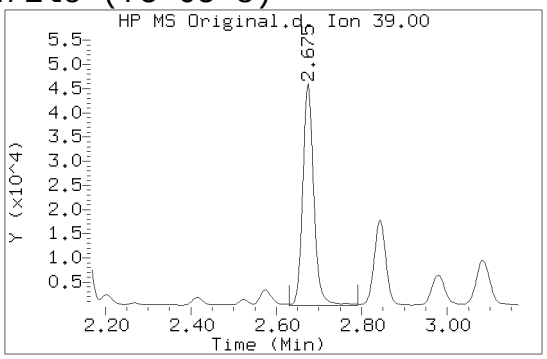
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InstruID : VOA9.i
LabSampID : VSTD050

Acetonitrile (75-05-8)

Reason Code:

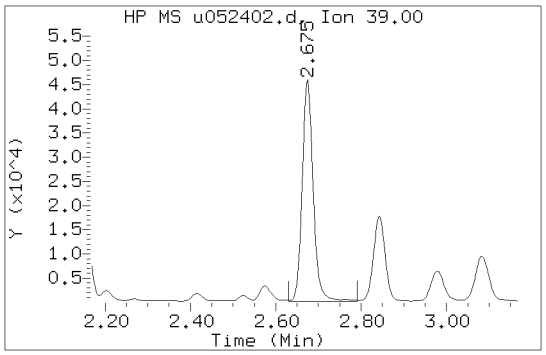
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24-May-2024
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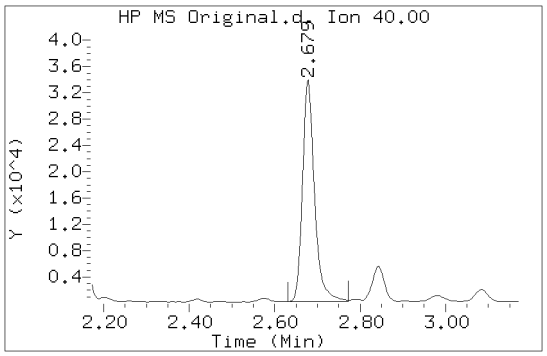
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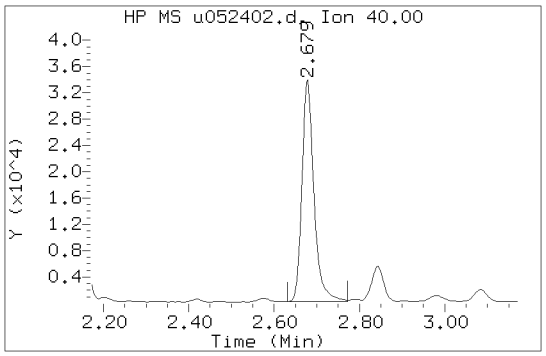
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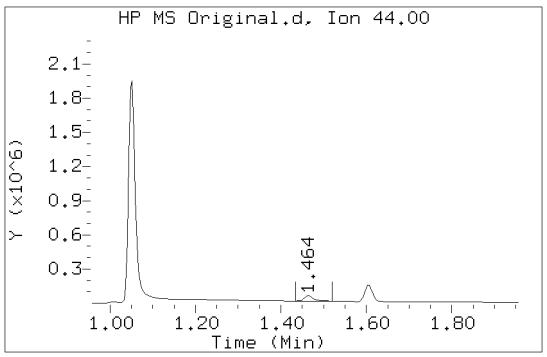


Acetaldehyde (75-07-0)

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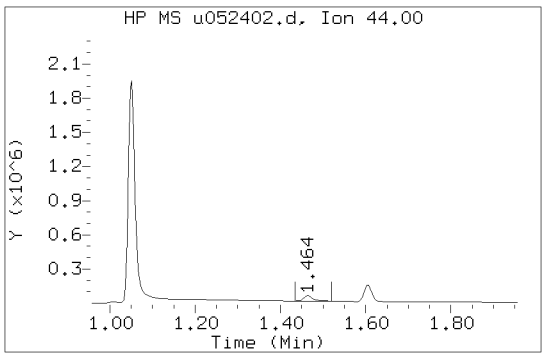
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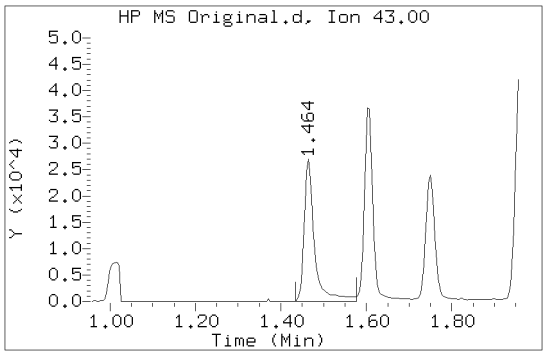
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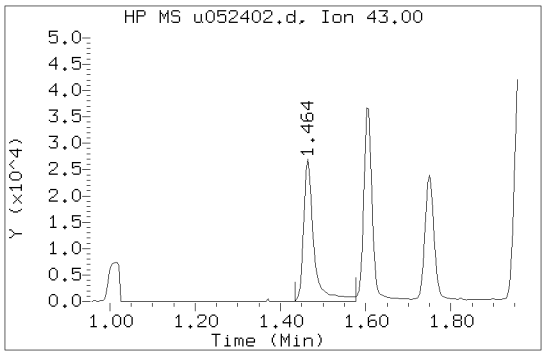
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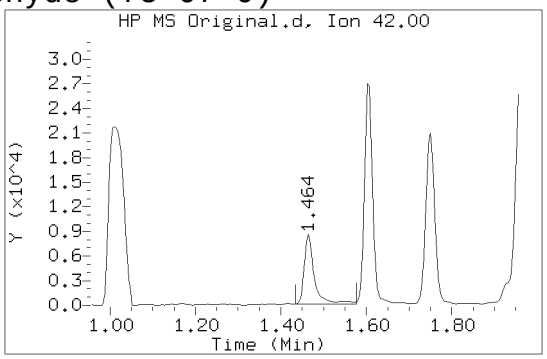
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InstruID : VOA9.i
LabSampID : VSTD050

Acetaldehyde (75-07-0)

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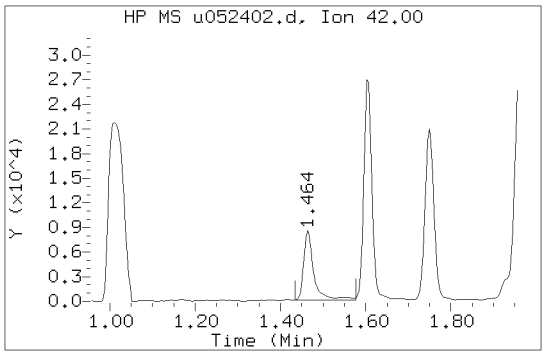
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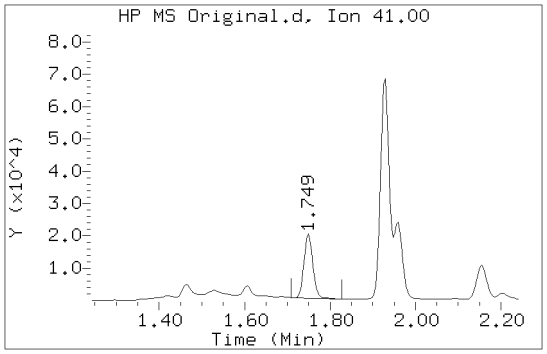


Isobutylene (115-11-7)

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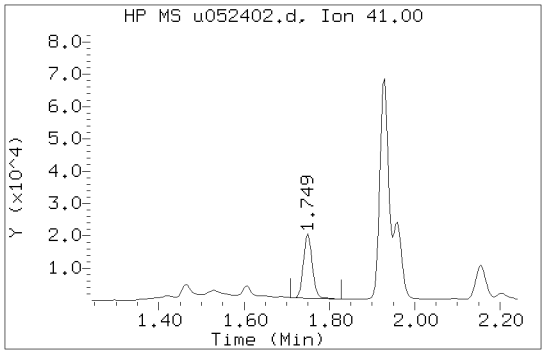
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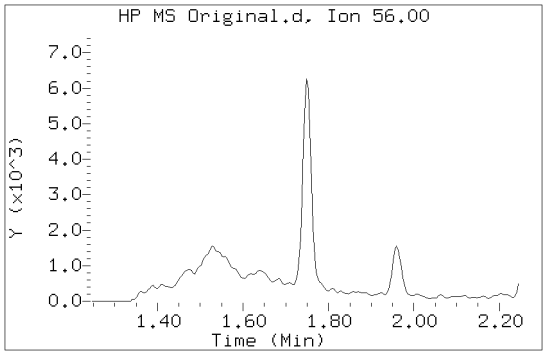
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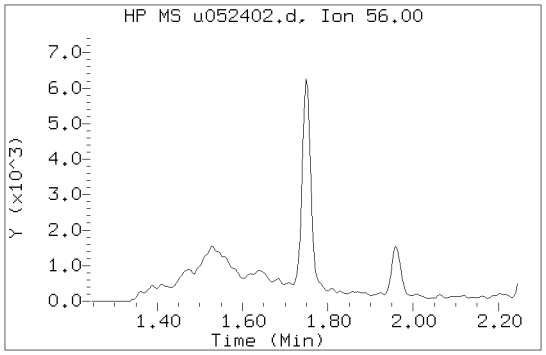
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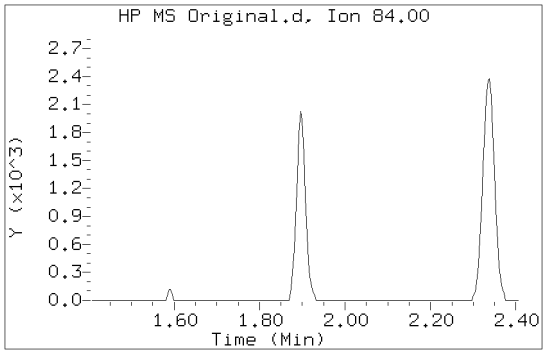
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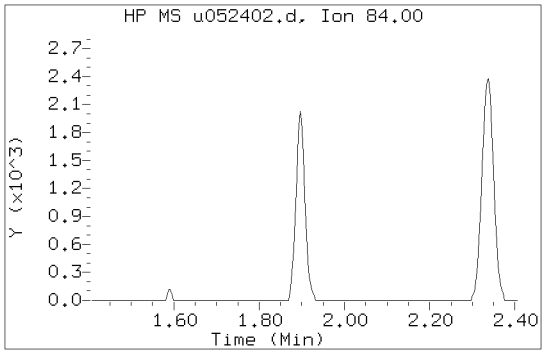
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AFTER

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24-May-2024
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Data File: \\nahstws005\Target\chem\voa9.i\U240524.b\U052403.D Page 1
Report Date: 28-May-2024 10:09

ALS Laboratory Group

Data file : \\nahstws005\Target\chem\voa9.i\U240524.b\U052403.D
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Inj Date : 24-MAY-2024 13:13
Operator : FT Inst ID: VOA9.i
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Misc Info : V9;WATER;0;1;
Comment   :
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Meth Date : 25-May-2024 10:36 firat.tast Quant Type: ISTD
Cal Date : 22-MAY-2024 23:36 Cal File: V052211.D
Als bottle: 3 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTWS005

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	4.811	4.811	(1.000)	248200	50.0000	
2 Dichlorodifluoromethane	85	1.160	1.160	(0.241)	24760	18.6986	18.69
3 Chloromethane	50	1.291	1.291	(0.268)	90423	18.4688	18.46
4 Propionitrile	54	4.335	4.335	(0.901)	56126	225.282	225.28(a)
5 Vinyl Chloride	62	1.374	1.374	(0.286)	39630	17.6308	17.63
6 Bromomethane	94	1.602	1.602	(0.333)	15875	21.9371	21.93
7 Chloroethane	64	1.689	1.689	(0.351)	27644	17.4447	17.44
8 Trichlorofluoromethane	101	1.887	1.891	(0.392)	46367	18.0736	18.07
9 Acrolein	56	2.262	2.262	(0.470)	3752	38.0614	38.06
10 Acetone	43	2.408	2.408	(0.501)	34212	45.1419	45.14
11 1,1-Dichloroethene	96	2.326	2.326	(0.483)	26654	17.0639	17.06
12 Isobutyl Alcohol	43	5.284	5.280	(1.098)	106668	417.000	417.00(a)
13 Acetonitrile	39	2.667	2.667	(0.554)	34841	169.965	169.96(a)
14 Allyl Chloride	41	2.671	2.667	(0.555)	85604	18.9379	18.93(a)
15 Iodomethane	142	2.461	2.461	(0.512)	13514	47.0040	47.00
16 Acrylonitrile	53	3.064	3.061	(0.637)	26012	40.0498	40.04
17 Methylene Chloride	84	2.791	2.791	(0.580)	37881	19.6881	19.68
18 Methyl tert-butyl ether	73	3.079	3.079	(0.640)	82164	19.2642	19.26
19 Carbon Disulfide	76	2.513	2.517	(0.522)	163938	34.6781	34.67
20 trans-1,2-Dichloroethene	96	3.053	3.053	(0.635)	30994	17.3129	17.31

21 Vinyl Acetate	43	4.339	4.339 (0.902)	43073	41.5673	41.56
22 1,1-Dichloroethane	63	3.507	3.511 (0.729)	59277	19.2511	19.25

Data File: \\nahstws005\Target\chem\voa9.i\U240524.b\U052403.D Page 2
Report Date: 28-May-2024 10:09

			QUANT SIG					CONCENTRATIONS	
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/l)	FINAL (ug/l)
	23	Chloroprene	53	3.604	3.604	(0.749)	48387	17.6833	17.68
	24	2-Butanone	43	4.264	4.260	(0.886)	42129	40.6701	40.67
	25	Methacrylonitrile	41	4.493	4.493	(0.934)	20872	18.1966	18.19(a)
	26	2,2-Dichloropropane	77	4.178	4.178	(0.868)	39213	17.9085	17.90
	27	cis-1,2-Dichloroethene	96	4.193	4.193	(0.871)	37226	17.3291	17.32
	28	Chloroform	83	4.571	4.568	(0.950)	61337	19.2488	19.24
	29	Bromochloromethane	128	4.466	4.466	(0.928)	18475	19.5138	19.51
$	30	Dibromofluoromethane	113	4.744	4.744	(0.986)	89467	55.2243	55.22
	31	1,1,1-Trichloroethane	97	4.740	4.740	(0.985)	45667	18.2557	18.25
	32	1,1-Dichloropropene	75	4.920	4.916	(0.887)	45660	17.9749	17.97
	33	1,2-Dichloroethane	62	5.175	5.171	(0.932)	49112	19.3349	19.33
	34	Carbon Tetrachloride	117	4.909	4.909	(0.885)	35980	17.4278	17.42
$	35	1,2-Dichloroethane-d4	65	5.096	5.093	(1.059)	108475	55.2374	55.23
*	36	1,4-Difluorobenzene	114	5.550	5.550	(1.000)	359699	50.0000	
	37	Benzene	78	5.134	5.134	(0.925)	142238	19.1791	19.17
	38	Trichloroethene	130	5.786	5.786	(1.043)	36004	18.0580	18.05
	39	Bromodichloromethane	83	6.277	6.277	(1.131)	38440	17.5518	17.55
	40	Methyl Methacrylate	41	5.827	5.824	(1.211)	13466	21.4505	21.45(a)
	41	2-Chloroethylvinyl ether	63	6.573	6.573	(1.184)	25582	36.2496	36.24
	42	1,2-Dichloropropane	63	6.007	6.007	(1.082)	39120	19.4497	19.44
	43	2-Nitropropane	43	6.506	6.506	(1.352)	7092	20.2018	20.20
	44	Dibromomethane	93	6.116	6.116	(1.102)	22685	18.2894	18.28
	45	4-Methyl-2-Pentanone	43	6.851	6.851	(0.837)	83660	38.0811	38.08
	46	cis-1,3-Dichloropropene	75	6.689	6.689	(1.205)	46408	18.3718	18.37
*	47	Chlorobenzene-d5	117	8.185	8.181	(1.000)	318485	50.0000	
$	48	Toluene-d8	98	6.918	6.918	(0.845)	327208	55.4231	55.42(M)
	49	Ethyl Methacrylate	69	7.289	7.289	(1.313)	46921	17.6822	17.68(a)
	50	Toluene	91	6.978	6.978	(0.853)	148576	18.4591	18.45
	51	trans-1,3-Dichloropropene	75	7.195	7.196	(1.297)	37082	18.0673	18.06
	52	2-Hexanone	43	7.589	7.589	(0.927)	55693	37.8572	37.85
	53	1,1,2-Trichloroethane	83	7.353	7.353	(0.898)	29415	20.5898	20.58
	54	1,3-Dichloropropane	76	7.495	7.495	(0.916)	61432	20.1419	20.14
	55	Dibromochloromethane	129	7.690	7.690	(0.940)	29084	18.6328	18.63
	56	Tetrachloroethene	164	7.454	7.454	(0.911)	28803	18.9822	18.98
	57	1,2-Dibromoethane	107	7.784	7.780	(0.951)	33819	19.8541	19.85
	58	1-Chlorohexane	55	8.193	8.193	(1.476)	30237	18.3793	18.37
	59	Chlorobenzene	112	8.208	8.208	(1.003)	95658	20.0170	20.01
	60	1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	30304	18.2379	18.23
	61	Ethylbenzene	106	8.305	8.305	(1.015)	46828	18.1506	18.15
	62	m,p-Xylenes	106	8.406	8.406	(1.027)	119531	37.7298	37.72
	63	o-Xylene	106	8.747	8.744	(1.069)	58710	18.9326	18.93
	64	Styrene	104	8.759	8.759	(1.070)	100320	19.0717	19.07
	66	Bromoform	173	8.916	8.916	(1.089)	16935	17.3657	17.36
	67	Isopropylbenzene	105	9.059	9.059	(1.107)	146174	19.0083	19.00
	68	1,1,2,2-Tetrachloroethane	83	9.325	9.325	(0.917)	47464	20.9335	20.93
$	69	4-Bromofluorobenzene	95	9.190	9.190	(1.123)	124616	56.9642	56.96(M)
*	70	1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	167134	50.0000	
	71	1,2,3-Trichloropropane	75	9.358	9.359	(0.920)	46409	20.4775	20.47
	72	trans-1,4-Dichloro-2-butene	53	9.377	9.374	(1.146)	9839	19.5763	19.57(a)
	73	n-Propylbenzene	91	9.411	9.411	(0.926)	172811	20.0195	20.01
	74	Bromobenzene	156	9.317	9.317	(0.916)	40842	18.5801	18.58
	75	1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	118469	19.8863	19.88

76	2-Chlorotoluene	91	9.482	9.478 (0.933)	106084	18.9660	18.96
77	4-Chlorotoluene	91	9.576	9.572 (0.942)	122549	19.2382	19.23

Data File: \\nahstws005\Target\chem\voa9.i\U240524.b\U052403.D Page 3
Report Date: 28-May-2024 10:09

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
78	tert-Butylbenzene	119	9.835	9.835	(0.967)	102992	19.7082	19.70
79	1,2,4-Trimethylbenzene	105	9.876	9.876	(0.971)	119199	19.5050	19.50
81	sec-Butylbenzene	105	10.022	10.018	(0.986)	136053	19.5922	19.59
82	p-Isopropyltoluene	119	10.146	10.146	(0.998)	119220	19.7182	19.71
83	1,3-Dichlorobenzene	146	10.112	10.112	(0.994)	72689	20.5512	20.55
84	1,4-Dichlorobenzene	146	10.191	10.187	(1.002)	76171	20.5332	20.53
86	Benzyl Chloride	91	10.311	10.311	(1.260)	38018	19.2397	19.23
87	n-Butylbenzene	91	10.491	10.491	(1.032)	104657	19.1587	19.15
88	1,2-Dichlorobenzene	146	10.502	10.502	(1.033)	72599	20.7830	20.78
89	1,2-Dibromo-3-Chloropropane	155	11.165	11.165	(1.098)	5124	19.2718	19.27
90	1,2,4-Trichlorobenzene	180	11.855	11.855	(1.166)	46504	18.5351	18.53
91	Hexachlorobutadiene	225	11.998	11.994	(1.180)	19888	19.9236	19.92
92	Naphthalene	128	12.065	12.065	(1.187)	111700	20.9877	20.98
93	1,2,3-Trichlorobenzene	180	12.267	12.268	(1.206)	44053	18.8562	18.85
146	Methyl acetate	43	2.712	2.712	(0.564)	42460	21.4370	21.43
138	Freon TF	101	2.330	2.330	(0.484)	50616	18.9390	18.93
141	Cyclohexane	56	4.778	4.781	(0.993)	53335	18.8125	18.81
142	Tetrahydrofuran	42	4.541	4.541	(0.944)	14557	45.0762	45.07
147	Methylcyclohexane	55	5.943	5.943	(1.071)	80839	18.7204	18.72
135	1,4-Dioxane	88	6.168	6.165	(1.282)	7195	394.929	394.92
132	n-Butanol	56	5.823	5.824	(1.210)	18230	389.958	389.95(a)
136	n-Hexane	57	3.334	3.338	(0.693)	35183	19.9449	19.94
139	Diethyl ether	59	2.142	2.142	(0.445)	22614	19.1003	19.10
148	Tert-butyl alcohol	59	2.974	2.971	(0.618)	52896	481.293	481.29
149	Isopropyl alcohol	45	2.570	2.566	(0.534)	40199	450.415	450.41
152	Amyl alcohol	42	7.398	7.398	(0.904)	19748	426.592	426.59
156	Diisopropyl ether	45	3.619	3.619	(0.752)	109678	19.1380	19.13
162	Butyl acrylate	55	8.732	8.729	(1.067)	59256	17.5916	17.59
187	n-Amyl acetate	43	8.931	8.927	(1.091)	67181	21.5329	21.53
164	Dicyclopentadiene	66	10.198	10.198	(1.003)	142649	19.5842	19.58
166	1,2,3-Trimethylbenzene	105	10.232	10.232	(1.006)	111812	19.7313	19.73
167	Ethanol	45	2.090	2.086	(0.434)	7542	430.604	430.60
172	tert-Butyl formate	59	5.242	5.239	(1.090)	53919	50.9505	50.95
173	3,3-Dimethyl-1-butanol	57	7.780	7.780	(0.951)	79804	477.402	477.40
174	tert-Amyl methyl ether	73	5.284	5.284	(1.098)	101376	18.4682	18.46
175	tert-Butyl ethyl ether	59	4.047	4.047	(0.841)	94615	17.1481	17.14
176	tert-Amyl alcohol	59	5.242	5.239	(1.090)	53919	500.212	500.21
151	4-Methyl-2-pentanol	45	7.214	7.214	(1.300)	214415	398.624	398.62
140	1,3-Butadiene	54	1.400	1.400	(0.291)	17961	18.3154	18.31
182	Epichlorohydrin	57	6.629	6.629	(1.195)	9742	86.1146	86.11
M 94	1,2-Dichloroethylene (total)	96				68220	34.6435	34.64
M 95	Xylenes (total)	106				178241	55.5417	55.54
145	alpha-Methylstyrene	118	9.752	9.752	(0.959)	46868	19.1414	19.14
130	Ethyl Acetate	43	4.339	4.339	(0.902)	43073	20.8249	20.82
131	Methyl Acrylate	55	4.369	4.365	(0.908)	43003	20.4278	20.42
189	n-Butyl acetate	43	7.705	7.702	(0.941)	59303	18.0598	18.05
134	Cyclohexanone	55	9.152	9.152	(0.900)	38387	428.603	428.60(a)
185	Isoprene	39	2.150	2.154	(0.447)	7878	18.6725	18.67
188	Isopropyl acetate	43	5.284	5.280	(0.952)	106710	20.8765	20.87
150	Allyl alcohol	57	3.334	3.338	(0.693)	35183	398.899	398.89
194	Acetaldehyde	44	1.456	1.456	(0.303)	69714	208.377	208.37
195	Methyl Amyl Ketone	43	8.867	8.864	(1.083)	78407	19.6342	19.63

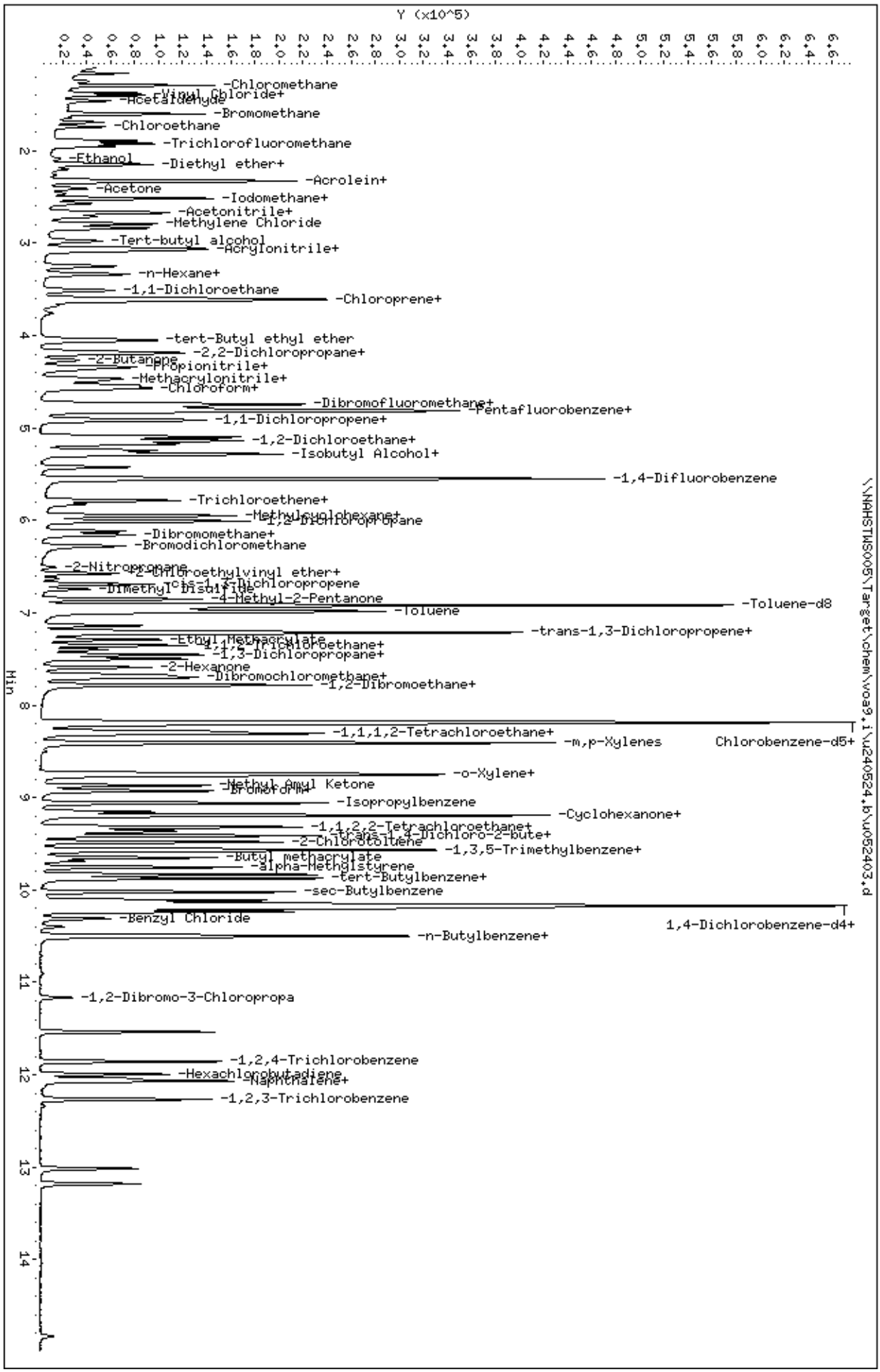
200 Dimethyl Disulfide	94	6.742	6.742 (0.824)	14542	15.5745	15.57
133 Ethyl Acrylate	55	5.943	5.943 (1.235)	80839	18.4728	18.47

Data File: \\nahstws005\Target\chem\voa9.i\U240524.b\U052403.D Page 4
Report Date: 28-May-2024 10:09

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
163 Butyl methacrylate	41	9.647	9.647	(0.949)	43771	23.2909	23.29
159 Propylene oxide	43	2.198	2.199	(0.457)	4776	36.0275	36.02
203 2-Ethylhexyl Acrylate	55	12.039	12.039	(1.184)	28698	19.1991	19.19

QC Flag Legend

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



Data File: \\NAHSTWS005\Target\chem\voa9.i\u240524.b\u052403.d
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Sample Info: VLCSW-240524;VLCSW-240524;3;;LCS
Purge Volume: 5.0
Column phase: DB624

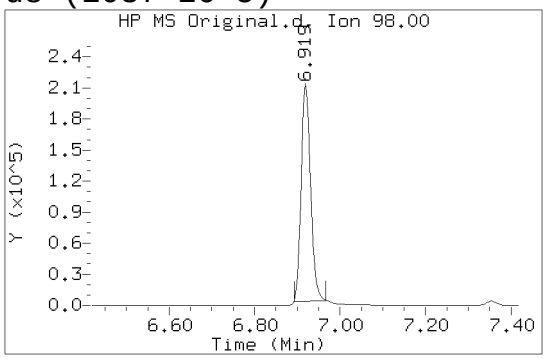
Instrument: VOA9.i
Operator: FT
Column diameter: 0.18

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Inj Date : 24-MAY-2024 13:13
InstruID : VOA9.i
LabSampID : VLCSW-240524

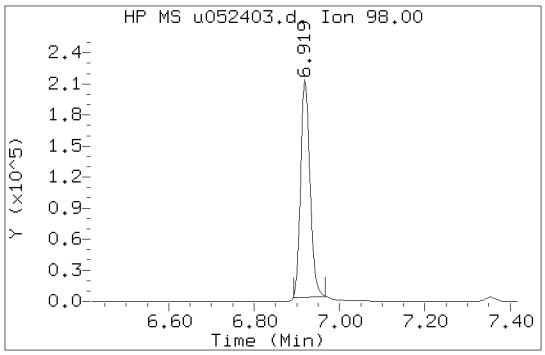
Toluene-d8 (2037-26-5)

Reason Code: MPT

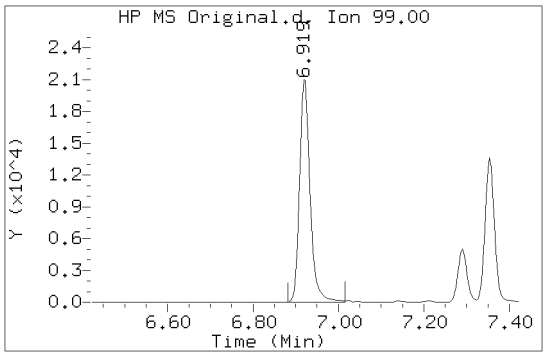
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28-May-2024
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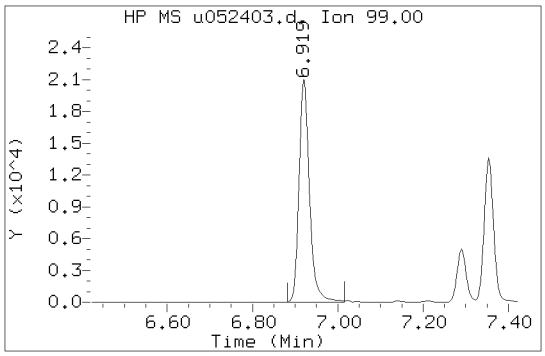
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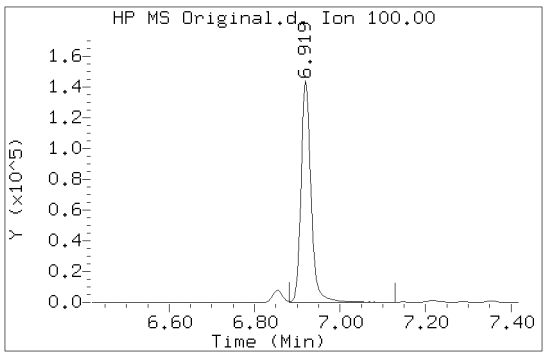
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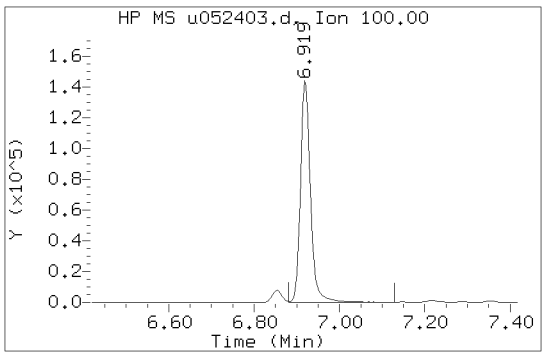
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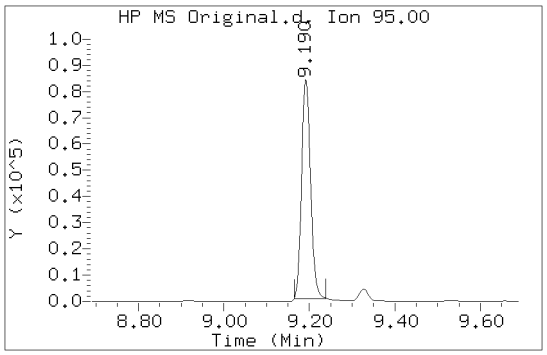
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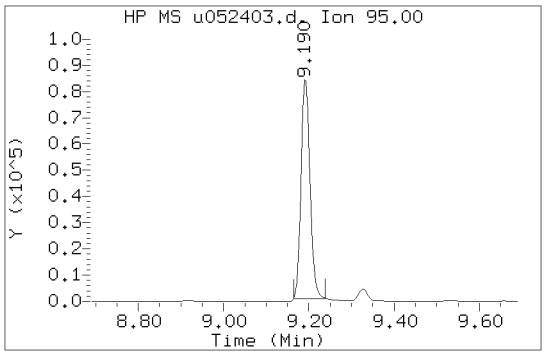
4-Bromofluorobenzene (460-00-4)

Reason Code: MPT

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28-May-2024
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tianna
smith



AFTER
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28-May-2024
10:09
tianna
smith



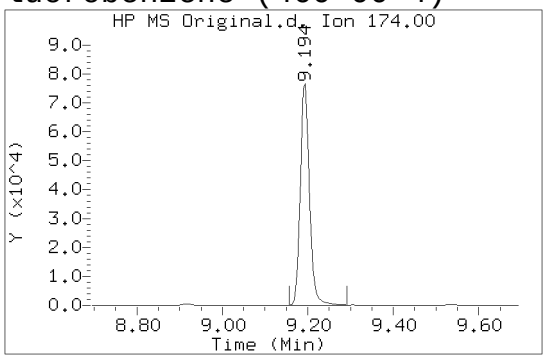
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Inj Date : 24-MAY-2024 13:13
InstruID : VOA9.i
LabSampID : VLCSW-240524

4-Bromofluorobenzene (460-00-4)

Reason Code: MPT

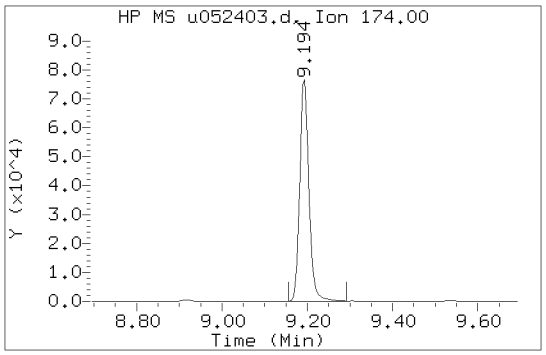
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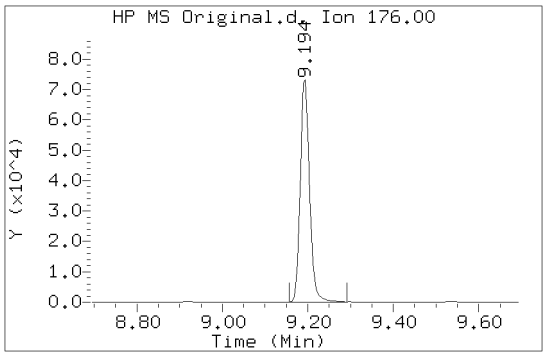
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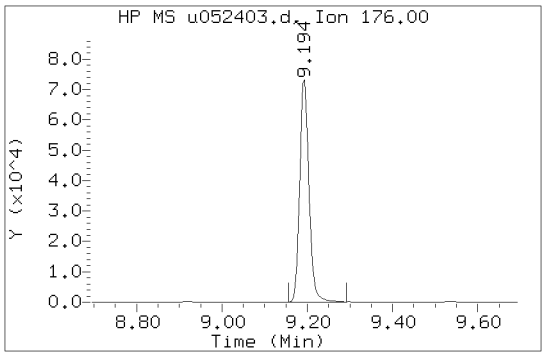
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28-May-2024
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smith



AFTER

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HEIGHT
73168
28-May-2024
10:09
tianna
smith



Data File: \\nahstws005\Target\chem\voa9.i\U240524.b\U052404.D Page 1
Report Date: 28-May-2024 10:11

ALS Laboratory Group

Data file : \\nahstws005\Target\chem\voa9.i\U240524.b\U052404.D
Lab Smp Id: VLCSDW-240524 Client Smp ID: VLCSDW-240524
Inj Date : 24-MAY-2024 13:35
Operator : FT Inst ID: VOA9.i
Smp Info : VLCSDW-240524;VLCSDW-240524;3;;LCSD
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240524.b\8260C.m
Meth Date : 25-May-2024 10:36 firat.tast Quant Type: ISTD
Cal Date : 22-MAY-2024 23:36 Cal File: V052211.D
Als bottle: 3 QC Sample: LCSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTWS005

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	4.811	4.811	(1.000)	247860	50.0000	
2 Dichlorodifluoromethane	85	1.156	1.160	(0.240)	23538	17.8002	17.80
3 Chloromethane	50	1.287	1.291	(0.268)	87729	17.8982	17.89
4 Propionitrile	54	4.331	4.335	(0.900)	54569	219.070	219.07(a)
5 Vinyl Chloride	62	1.370	1.374	(0.285)	39063	17.4024	17.40
6 Bromomethane	94	1.598	1.602	(0.332)	15536	21.4511	21.45
7 Chloroethane	64	1.685	1.689	(0.350)	26811	16.9423	16.94
8 Trichlorofluoromethane	101	1.883	1.891	(0.392)	45341	17.6979	17.69
9 Acrolein	56	2.258	2.262	(0.469)	3785	38.4873	38.48
10 Acetone	43	2.404	2.408	(0.500)	34248	45.2693	45.26
11 1,1-Dichloroethene	96	2.322	2.326	(0.483)	26159	16.7700	16.76
12 Isobutyl Alcohol	43	5.280	5.280	(1.097)	104266	408.184	408.18(a)
13 Acetonitrile	39	2.663	2.667	(0.554)	33938	165.787	165.78(a)
14 Allyl Chloride	41	2.663	2.667	(0.554)	84210	18.6525	18.65(a)
15 Iodomethane	142	2.457	2.461	(0.511)	13771	47.8970	47.89
16 Acrylonitrile	53	3.060	3.061	(0.636)	26245	40.4742	40.47
17 Methylene Chloride	84	2.787	2.791	(0.579)	37031	19.2346	19.23
18 Methyl tert-butyl ether	73	3.072	3.079	(0.638)	82802	19.4431	19.44
19 Carbon Disulfide	76	2.509	2.517	(0.522)	156664	33.1849	33.18
20 trans-1,2-Dichloroethene	96	3.049	3.053	(0.634)	29730	16.6296	16.62

21 Vinyl Acetate	43	4.335	4.339 (0.901)	44120	42.6381	42.63
22 1,1-Dichloroethane	63	3.507	3.511 (0.729)	57748	18.7720	18.77

Data File: \\nahstws005\Target\chem\voa9.i\U240524.b\U052404.D Page 2
Report Date: 28-May-2024 10:11

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
	23 Chloroprene	53	3.600	3.604	(0.748)	46121	16.8783	16.87
	24 2-Butanone	43	4.260	4.260	(0.885)	42261	40.8523	40.85
	25 Methacrylonitrile	41	4.492	4.493	(0.934)	21644	18.8803	18.88(a)
	26 2,2-Dichloropropane	77	4.174	4.178	(0.868)	37931	17.3468	17.34
	27 cis-1,2-Dichloroethene	96	4.189	4.193	(0.871)	36430	16.9818	16.98
	28 Chloroform	83	4.567	4.568	(0.949)	60052	18.8679	18.86
	29 Bromochloromethane	128	4.462	4.466	(0.928)	18018	19.0497	19.04
$	30 Dibromofluoromethane	113	4.744	4.744	(0.986)	91612	56.6166	56.61
	31 1,1,1-Trichloroethane	97	4.736	4.740	(0.984)	44191	17.6899	17.68
	32 1,1-Dichloropropene	75	4.916	4.916	(0.886)	43938	16.9779	16.97
	33 1,2-Dichloroethane	62	5.171	5.171	(0.932)	49815	19.2489	19.24
	34 Carbon Tetrachloride	117	4.905	4.909	(0.884)	35015	16.6475	16.64
$	35 1,2-Dichloroethane-d4	65	5.092	5.093	(1.058)	110743	56.4789	56.47
*	36 1,4-Difluorobenzene	114	5.550	5.550	(1.000)	366459	50.0000	
	37 Benzene	78	5.133	5.134	(0.925)	139438	18.4529	18.45
	38 Trichloroethene	130	5.782	5.786	(1.042)	34833	17.1484	17.14
	39 Bromodichloromethane	83	6.273	6.277	(1.130)	37705	16.8986	16.89
	40 Methyl Methacrylate	41	5.823	5.824	(1.210)	12313	19.6709	19.67(a)
	41 2-Chloroethylvinyl ether	63	6.573	6.573	(1.184)	25957	36.1157	36.11
	42 1,2-Dichloropropane	63	6.003	6.007	(1.082)	37967	18.5215	18.52
	43 2-Nitropropane	43	6.505	6.506	(1.352)	6910	19.7125	19.71
	44 Dibromomethane	93	6.116	6.116	(1.102)	22289	17.6387	17.63
	45 4-Methyl-2-Pentanone	43	6.850	6.851	(0.837)	83519	36.8785	36.87
	46 cis-1,3-Dichloropropene	75	6.689	6.689	(1.205)	46036	17.8884	17.88
*	47 Chlorobenzene-d5	117	8.181	8.181	(1.000)	328317	50.0000	
$	48 Toluene-d8	98	6.918	6.918	(0.846)	340179	55.8942	55.89(M)
	49 Ethyl Methacrylate	69	7.289	7.289	(1.313)	47155	17.4425	17.44(a)
	50 Toluene	91	6.978	6.978	(0.853)	145512	17.5370	17.53
	51 trans-1,3-Dichloropropene	75	7.195	7.196	(1.297)	36384	17.4607	17.46
	52 2-Hexanone	43	7.589	7.589	(0.928)	55076	36.3167	36.31
	53 1,1,2-Trichloroethane	83	7.353	7.353	(0.899)	27746	18.8055	18.80
	54 1,3-Dichloropropane	76	7.495	7.495	(0.916)	61485	19.5507	19.55
	55 Dibromochloromethane	129	7.690	7.690	(0.940)	28195	17.5223	17.52
	56 Tetrachloroethene	164	7.454	7.454	(0.911)	27899	17.8358	17.83
	57 1,2-Dibromoethane	107	7.784	7.780	(0.951)	32544	18.5334	18.53
	58 1-Chlorohexane	55	8.192	8.193	(1.476)	29063	17.2699	17.26
	59 Chlorobenzene	112	8.207	8.208	(1.003)	93675	18.9929	18.99
	60 1,1,1,2-Tetrachloroethane	131	8.282	8.283	(1.012)	29192	17.0426	17.04
	61 Ethylbenzene	106	8.305	8.305	(1.015)	45882	17.2513	17.25
	62 m,p-Xylenes	106	8.406	8.406	(1.027)	117941	36.1131	36.11
	63 o-Xylene	106	8.743	8.744	(1.069)	57400	17.9558	17.95
	64 Styrene	104	8.758	8.759	(1.071)	98756	18.2121	18.21
	66 Bromoform	173	8.916	8.916	(1.090)	16633	16.6314	16.63
	67 Isopropylbenzene	105	9.058	9.059	(1.107)	142070	17.9214	17.92
	68 1,1,2,2-Tetrachloroethane	83	9.324	9.325	(0.917)	47952	19.9951	19.99
$	69 4-Bromofluorobenzene	95	9.193	9.190	(1.124)	128339	56.9089	56.90(M)
*	70 1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	176750	50.0000	
	71 1,2,3-Trichloropropane	75	9.358	9.359	(0.920)	46292	19.3399	19.33
	72 trans-1,4-Dichloro-2-butene	53	9.377	9.374	(1.146)	9610	18.5751	18.57(a)
	73 n-Propylbenzene	91	9.411	9.411	(0.926)	166665	18.2571	18.25
	74 Bromobenzene	156	9.317	9.317	(0.916)	40773	17.5396	17.53
	75 1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	114692	18.2049	18.20

76	2-Chlorotoluene	91	9.482	9.478 (0.933)	102550	17.3367	17.33
77	4-Chlorotoluene	91	9.576	9.572 (0.942)	119214	17.6965	17.69

Data File: \\nahstws005\Target\chem\voa9.i\U240524.b\U052404.D Page 3
Report Date: 28-May-2024 10:11

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
78	tert-Butylbenzene	119	9.834	9.835	(0.967)	98559	17.8338	17.83
79	1,2,4-Trimethylbenzene	105	9.876	9.876	(0.971)	115540	17.8777	17.87
81	sec-Butylbenzene	105	10.022	10.018	(0.986)	131668	17.9292	17.92
82	p-Isopropyltoluene	119	10.145	10.146	(0.998)	115418	18.0508	18.05
83	1,3-Dichlorobenzene	146	10.112	10.112	(0.994)	70482	18.8310	18.83
84	1,4-Dichlorobenzene	146	10.190	10.187	(1.002)	75133	19.1267	19.12
86	Benzyl Chloride	91	10.310	10.311	(1.260)	37458	18.3970	18.39
87	n-Butylbenzene	91	10.490	10.491	(1.032)	102408	17.7667	17.76
88	1,2-Dichlorobenzene	146	10.505	10.502	(1.033)	71777	19.4112	19.41
89	1,2-Dibromo-3-Chloropropane	155	11.165	11.165	(1.098)	5073	18.1342	18.13
90	1,2,4-Trichlorobenzene	180	11.855	11.855	(1.166)	44903	16.9233	16.92
91	Hexachlorobutadiene	225	11.997	11.994	(1.180)	18586	17.6334	17.63
92	Naphthalene	128	12.065	12.065	(1.187)	106514	18.9245	18.92
93	1,2,3-Trichlorobenzene	180	12.267	12.268	(1.206)	42818	17.3304	17.33
146	Methyl acetate	43	2.708	2.712	(0.563)	43387	21.9546	21.95
138	Freon TF	101	2.322	2.330	(0.483)	49055	18.3801	18.38
141	Cyclohexane	56	4.777	4.781	(0.993)	51369	18.0966	18.09
142	Tetrahydrofuran	42	4.541	4.541	(0.944)	14110	43.6648	43.66
147	Methylcyclohexane	55	5.943	5.943	(1.071)	79101	17.9800	17.98
135	1,4-Dioxane	88	6.168	6.165	(1.282)	6941	381.296	381.29
132	n-Butanol	56	5.823	5.824	(1.210)	16755	358.898	358.89(a)
136	n-Hexane	57	3.330	3.338	(0.692)	33169	18.8345	18.83
139	Diethyl ether	59	2.138	2.142	(0.444)	22234	18.7995	18.79
148	Tert-butyl alcohol	59	2.970	2.971	(0.617)	53086	483.780	483.77
149	Isopropyl alcohol	45	2.566	2.566	(0.533)	40483	454.348	454.34
152	Amyl alcohol	42	7.398	7.398	(0.904)	19280	405.162	405.16
156	Diisopropyl ether	45	3.615	3.619	(0.751)	105137	18.3613	18.36
162	Butyl acrylate	55	8.732	8.729	(1.067)	59025	16.9983	16.99
187	n-Amyl acetate	43	8.927	8.927	(1.091)	65488	20.3767	20.37
164	Dicyclopentadiene	66	10.198	10.198	(1.003)	138955	18.0309	18.03
166	1,2,3-Trimethylbenzene	105	10.232	10.232	(1.006)	106162	17.7150	17.71
167	Ethanol	45	2.082	2.086	(0.433)	8075	463.544	463.54
172	tert-Butyl formate	59	5.242	5.239	(1.090)	54085	51.1787	51.17
173	3,3-Dimethyl-1-butanol	57	7.780	7.780	(0.951)	79695	462.143	462.14
174	tert-Amyl methyl ether	73	5.283	5.284	(1.098)	97349	17.7589	17.75
175	tert-Butyl ethyl ether	59	4.046	4.047	(0.841)	93897	17.0413	17.04
176	tert-Amyl alcohol	59	5.242	5.239	(1.090)	54085	502.443	502.44
151	4-Methyl-2-pentanol	45	7.214	7.214	(1.300)	216113	394.369	394.36
140	1,3-Butadiene	54	1.396	1.400	(0.290)	17633	18.0056	18.00
182	Epichlorohydrin	57	6.629	6.629	(1.195)	11094	96.3005	96.30
M 94	1,2-Dichloroethylene (total)	96				66160	33.6434	33.64
M 95	Xylenes (total)	106				175341	53.6301	53.63
145	alpha-Methylstyrene	118	9.752	9.752	(0.959)	45116	17.4234	17.42
130	Ethyl Acetate	43	4.335	4.339	(0.901)	44120	21.3604	21.36
131	Methyl Acrylate	55	4.365	4.365	(0.907)	42946	20.4287	20.42
189	n-Butyl acetate	43	7.705	7.702	(0.942)	60148	17.7686	17.76
134	Cyclohexanone	55	9.152	9.152	(0.900)	37141	392.362	392.36(a)
185	Isoprene	39	2.146	2.154	(0.446)	8219	19.5075	19.50
188	Isopropyl acetate	43	5.280	5.280	(0.951)	104266	20.0258	20.02
150	Allyl alcohol	57	3.330	3.338	(0.692)	33169	376.691	376.69
194	Acetaldehyde	44	1.452	1.456	(0.302)	93319	279.315	279.31
195	Methyl Amyl Ketone	43	8.867	8.864	(1.084)	78283	19.0161	19.01

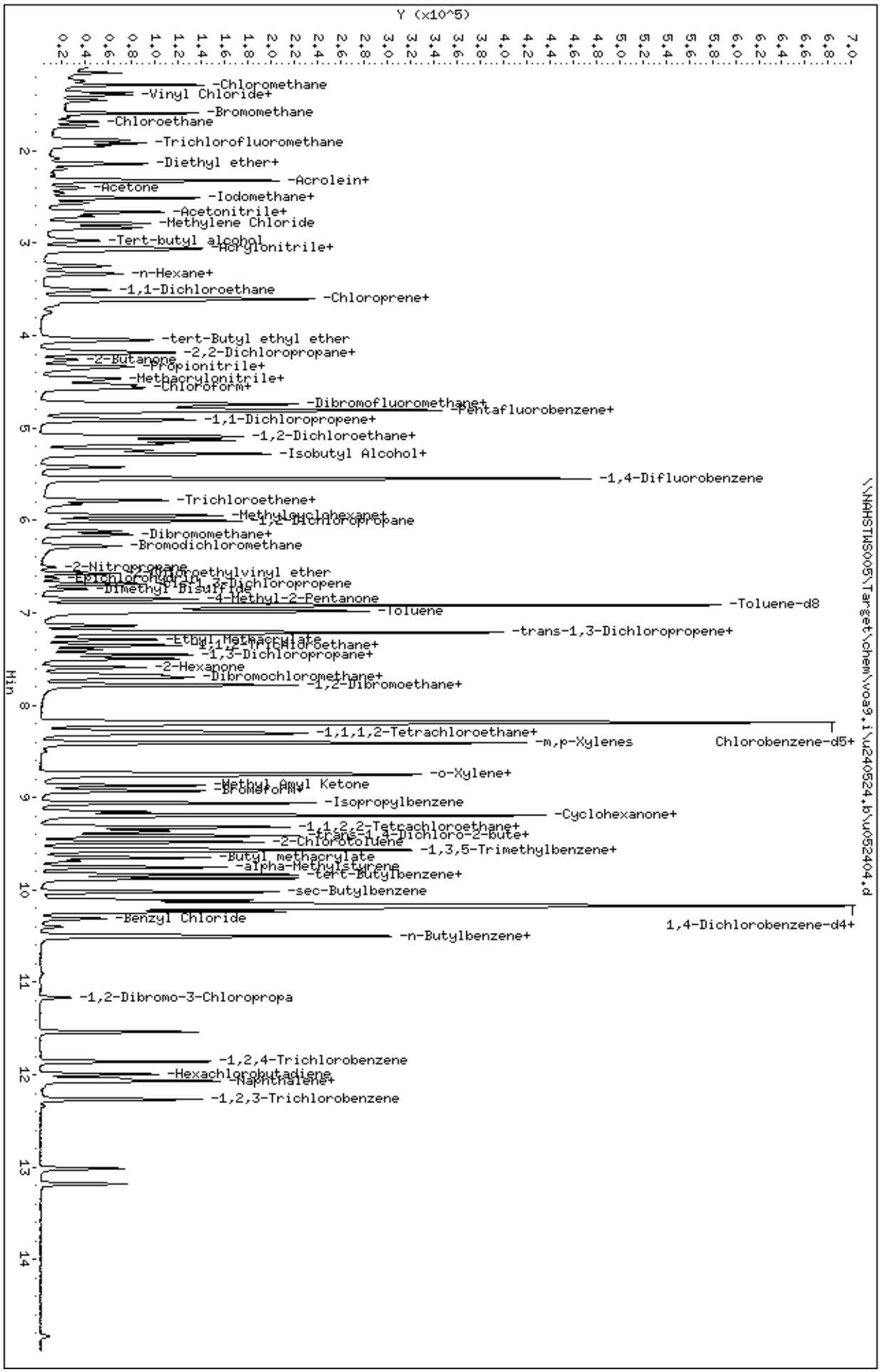
200 Dimethyl Disulfide	94	6.742	6.742 (0.824)	14581	15.2158	15.21
133 Ethyl Acrylate	55	5.943	5.943 (1.235)	79101	18.1004	18.10

Data File: \\nahstws005\Target\chem\voa9.i\U240524.b\U052404.D Page 4
Report Date: 28-May-2024 10:11

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
163 Butyl methacrylate	41	9.647	9.647	(0.949)	38081	18.9991	18.99
159 Propylene oxide	43	2.194	2.199	(0.456)	4834	36.5245	36.52
203 2-Ethylhexyl Acrylate	55	12.039	12.039	(1.184)	27419	17.4940	17.49

QC Flag Legend

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



Data File: \\NAHSTWS005\Target\chem\voa9,i\u240524,b\u052404,d
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Client ID: VLCSDW-240524
Sample Info: VLCSDW-240524;VLCSDW-240524;3;;LCSD
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9,i
Operator: FT
Column diameter: 0.18

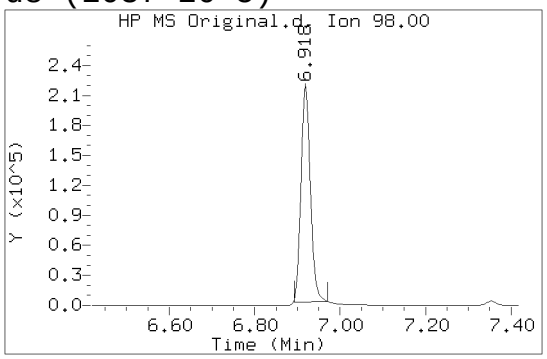
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Inj Date : 24-MAY-2024 13:35
InstruID : VOA9.i
LabSampID : VLCSDW-240524

Toluene-d8 (2037-26-5)

Reason Code: MPT

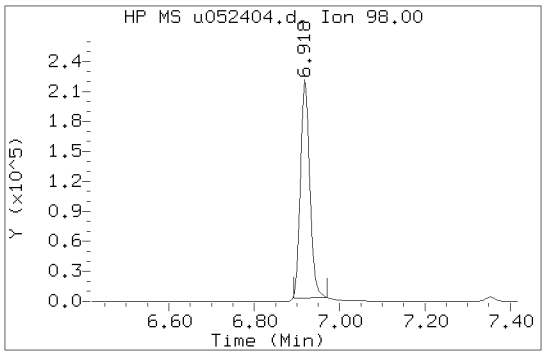
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28-May-2024
10:11
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smith



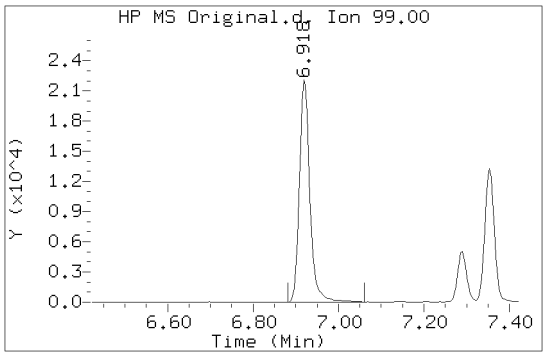
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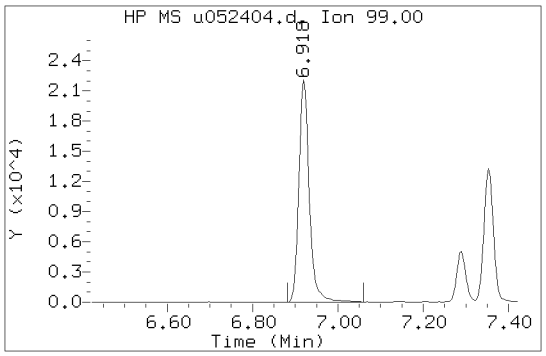
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10:11
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smith



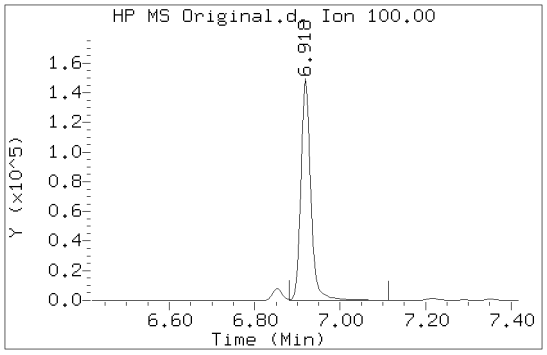
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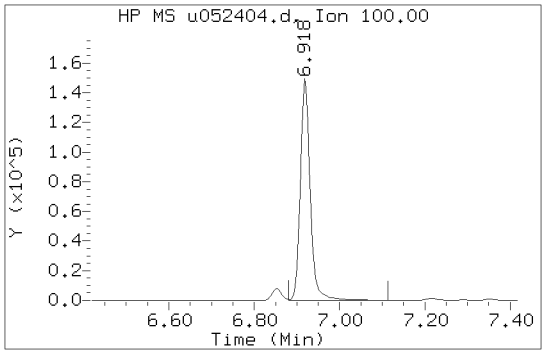
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AFTER

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smith

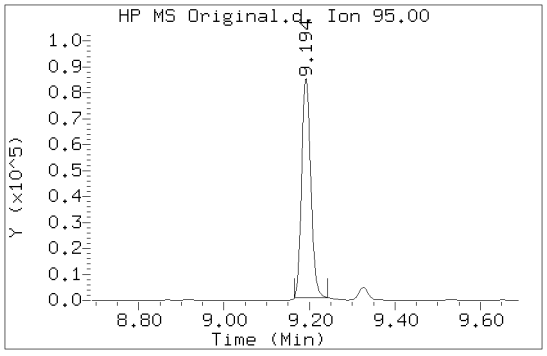


4-Bromofluorobenzene (460-00-4)

Reason Code: MPT

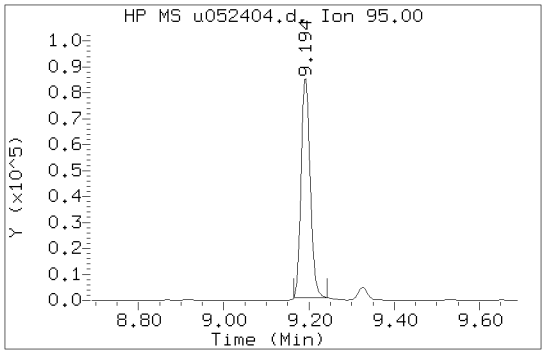
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HEIGHT
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28-May-2024
10:11
tianna
smith



AFTER

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HEIGHT
84510
28-May-2024
10:11
tianna
smith



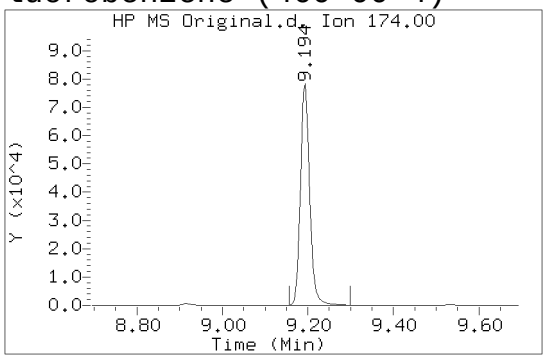
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Inj Date : 24-MAY-2024 13:35
InstruID : VOA9.i
LabSampID : VLCSDW-240524

4-Bromofluorobenzene (460-00-4)

Reason Code: MPT

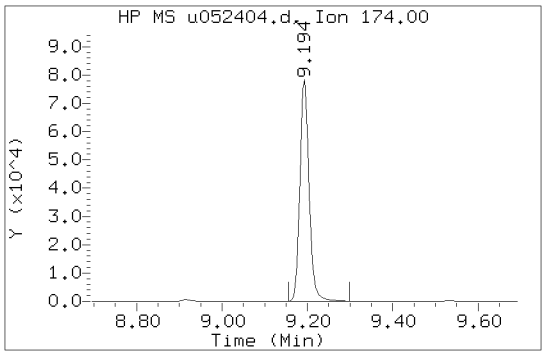
BEFORE

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HEIGHT
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28-May-2024
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smith



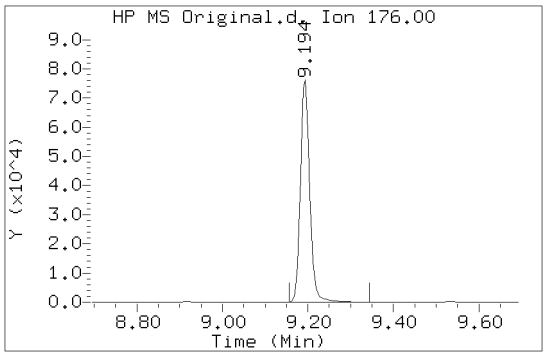
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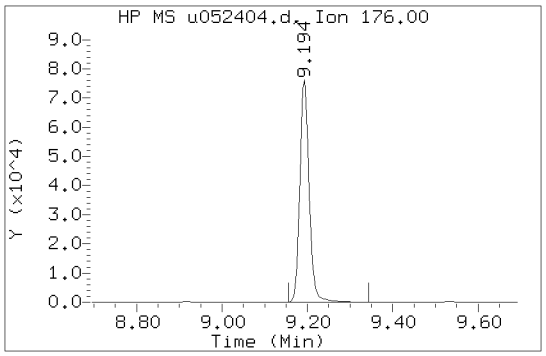
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smith



AFTER

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tianna
smith



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240524.b\U052406.D Page 1
Report Date: 21-Jun-2024 12:14

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240524.b\U052406.D
Lab Smp Id: VBLKW-240524 Client Smp ID: VBLKW-240524
Inj Date : 24-MAY-2024 14:18
Operator : FT Inst ID: VOA9.i
Smp Info : VBLKW-240524;VBLKW-240524;3;;BLANK
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240524.b\8260C.m
Meth Date : 21-Jun-2024 12:13 s.zaid Quant Type: ISTD
Cal Date : 22-MAY-2024 23:36 Cal File: V052211.D
Als bottle: 5 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7014

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	4.811	4.811	(1.000)	246217	50.0000	
$ 30 Dibromofluoromethane	113	4.744	4.744	(0.986)	87927	54.7139	54.71
$ 35 1,2-Dichloroethane-d4	65	5.093	5.093	(1.058)	112676	57.8574	57.85
* 36 1,4-Difluorobenzene	114	5.550	5.550	(1.000)	360374	50.0000	
* 47 Chlorobenzene-d5	117	8.181	8.181	(1.000)	327810	50.0000	
$ 48 Toluene-d8	98	6.918	6.918	(0.846)	338097	55.6383	55.63(M)
$ 69 4-Bromofluorobenzene	95	9.190	9.190	(1.123)	125651	55.7978	55.79
* 70 1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	167574	50.0000	

QC Flag Legend

M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240524.b\U052406.D

Date : 24-MAY-2024 14:18

Client ID: VBLKW-240524

Instrument: VOA9.i

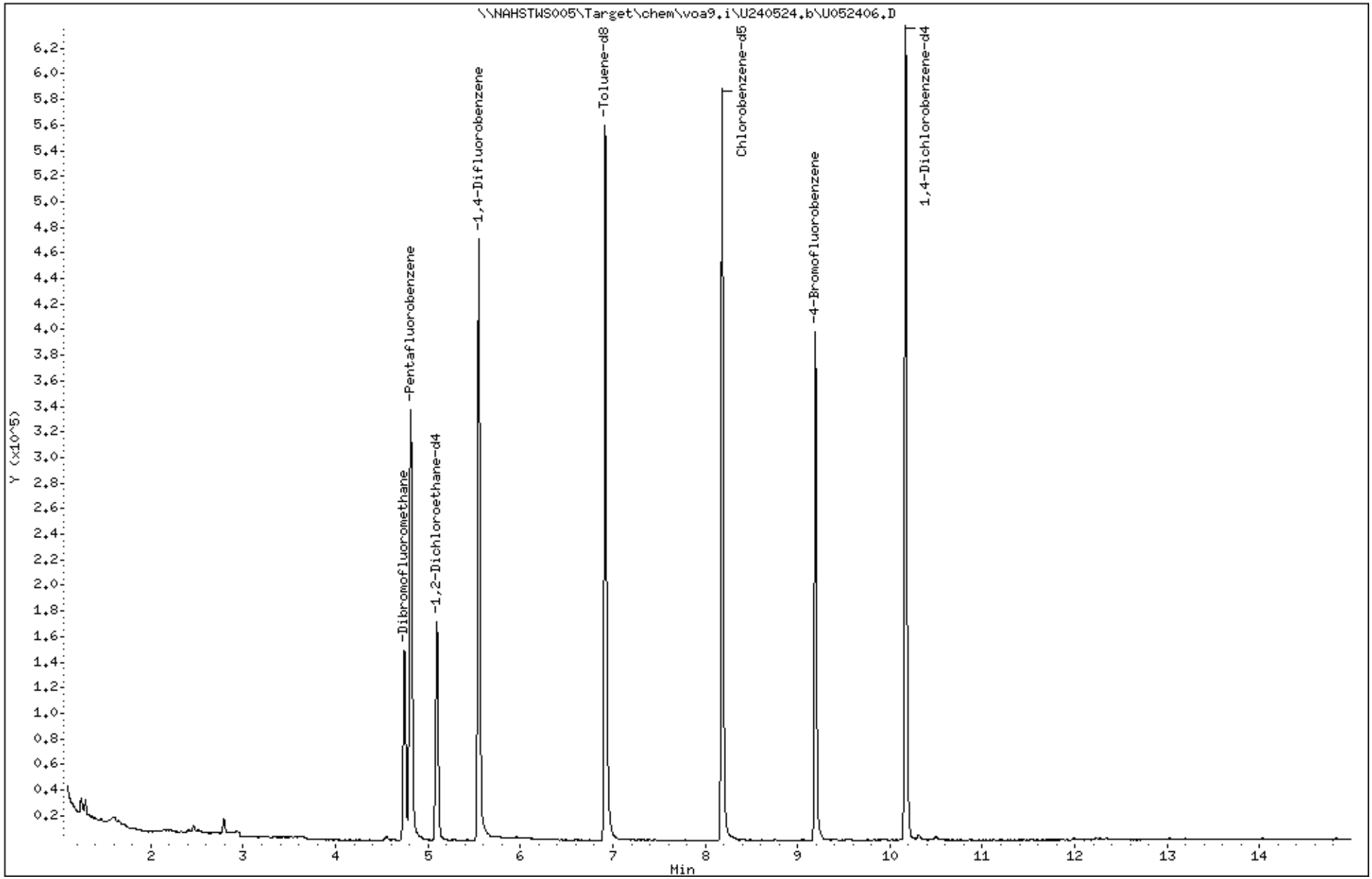
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Purge Volume: 5.0

Operator: FT

Column phase: DB624

Column diameter: 0.18

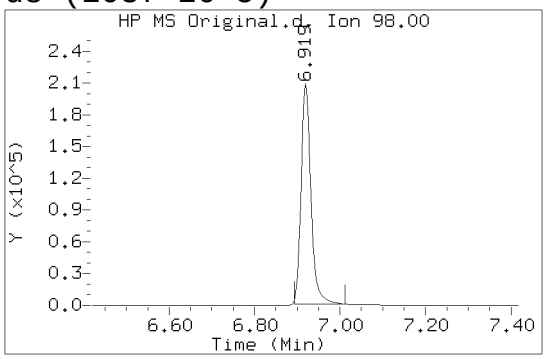


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LabSampID : VBLKW-240524

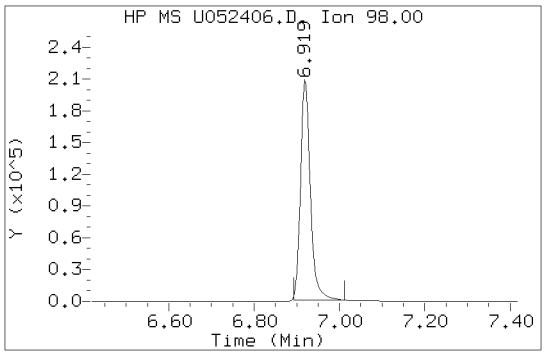
Toluene-d8 (2037-26-5)

Reason Code: MPT

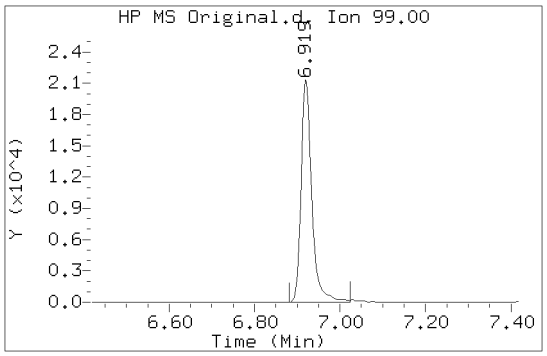
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21-Jun-2024
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s
zaid



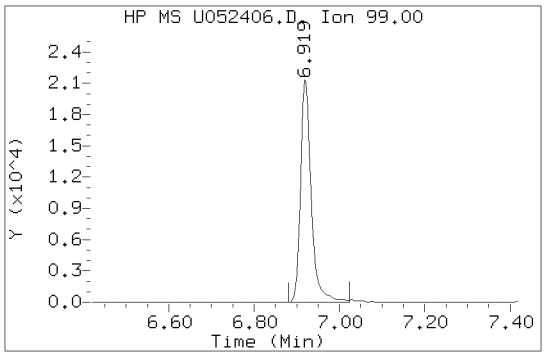
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HEIGHT
208047
21-Jun-2024
12:14
s
zaid



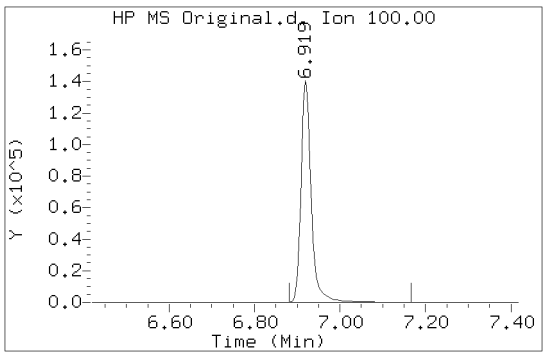
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AREA
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HEIGHT
21320
21-Jun-2024
12:14
s
zaid



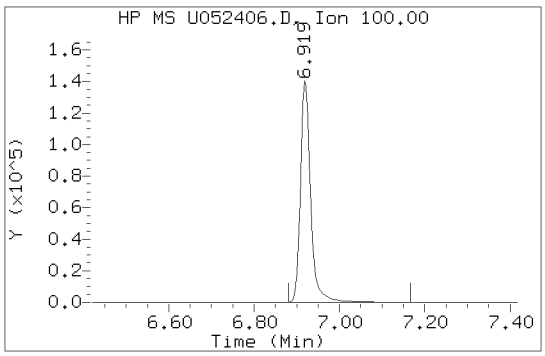
AFTER
MASS
99
AREA
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HEIGHT
21320
21-Jun-2024
12:14
s
zaid



BEFORE
MASS
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AREA
236308
HEIGHT
140428
21-Jun-2024
12:14
s
zaid



AFTER
MASS
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AREA
236308
HEIGHT
140428
21-Jun-2024
12:14
s
zaid



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240524.b\U052413.D Page 1
Report Date: 22-Jun-2024 11:23

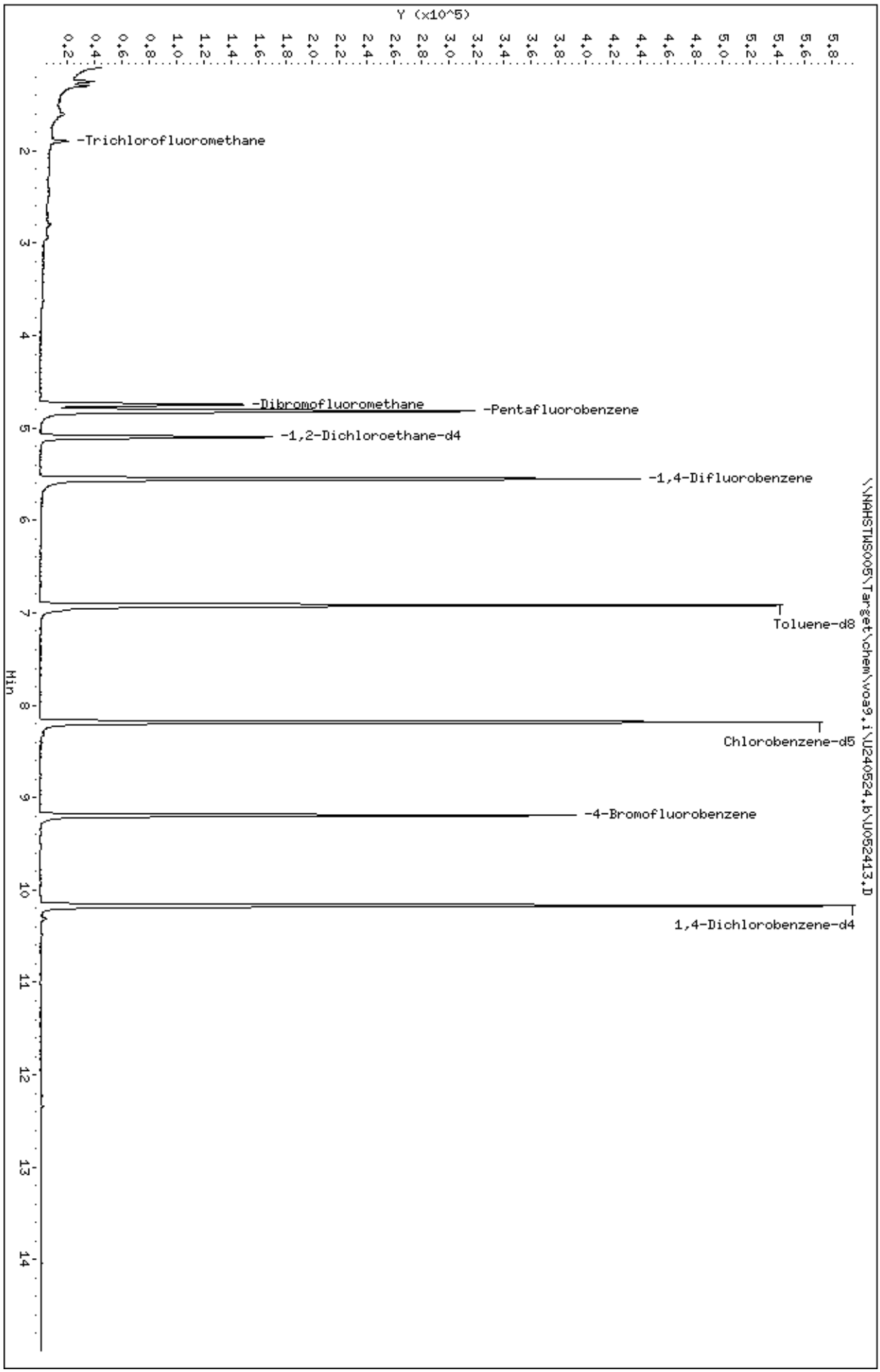
ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240524.b\U052413.D
Lab Smp Id: HS24051300-10
Inj Date : 24-MAY-2024 16:49
Operator : FT Inst ID: VOA9.i
Smp Info : HS24051300-10
Misc Info : V9;WATER;0;1;
Comment :
Method : \\nahstws005\Target\chem\voa9.i\U240524.b\8260C.m
Meth Date : 22-Jun-2024 11:22 r.patel Quant Type: ISTD
Cal Date : 22-MAY-2024 23:36 Cal File: V052211.D
Als bottle: 11
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	4.815	4.815	(1.000)	233840	50.0000	
8 Trichlorofluoromethane	101	1.895	1.895	(0.394)	7400	3.06161	3.06
$ 30 Dibromofluoromethane	113	4.748	4.748	(0.986)	87425	57.2637	57.26
$ 35 1,2-Dichloroethane-d4	65	5.096	5.096	(1.058)	111295	60.1865	60.18
* 36 1,4-Difluorobenzene	114	5.550	5.550	(1.000)	345388	50.0000	
* 47 Chlorobenzene-d5	117	8.182	8.181	(1.000)	311247	50.0000	
$ 48 Toluene-d8	98	6.918	6.918	(0.846)	343626	59.5498	59.54
$ 69 4-Bromofluorobenzene	95	9.190	9.190	(1.123)	121605	56.8801	56.88
* 70 1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	155252	50.0000	


Data File: \\NAHSTWS005\Target\chem\voa9.i\U240524.b\U052413.D
Date : 24-MAY-2024 16:49
Client ID:
Sample Info: HS24051300-10
Purge Volume: 5.0
Column phase: DB624
Instrument: VOA9.i
Operator: FT
Column diameter: 0.18
Y (x10^5)
-Trichlorofluoromethane
-Dibromofluoromethane
-Pentafluorobenzene
-1,2-Dichloroethane-d4
-1,4-Difluorobenzene
Toluene-d8
Chlorobenzene-d5
-4-Bromofluorobenzene
1,4-Dichlorobenzene-d4
\\NAHSTWS005\Target\chem\voa9.i\U240524.b\U052413.D
Min

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240524.b\U052413.D Page 2

Date : 24-MAY-2024 16:49

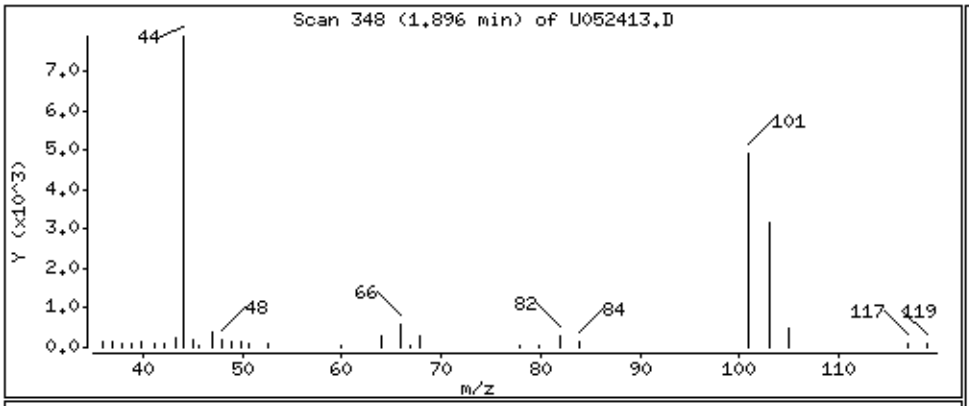
Client ID: Instrument: VOA9.i

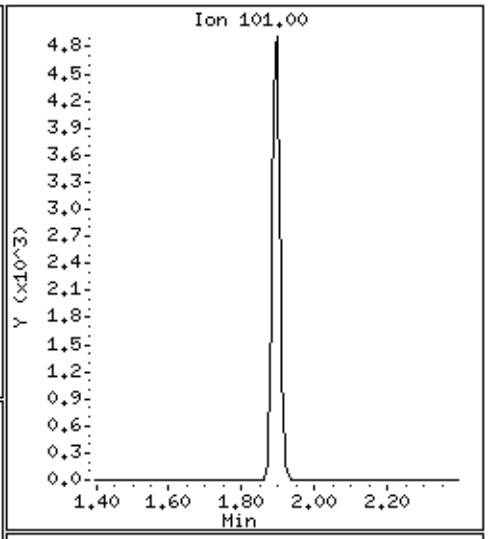
Sample Info: HS24051300-10

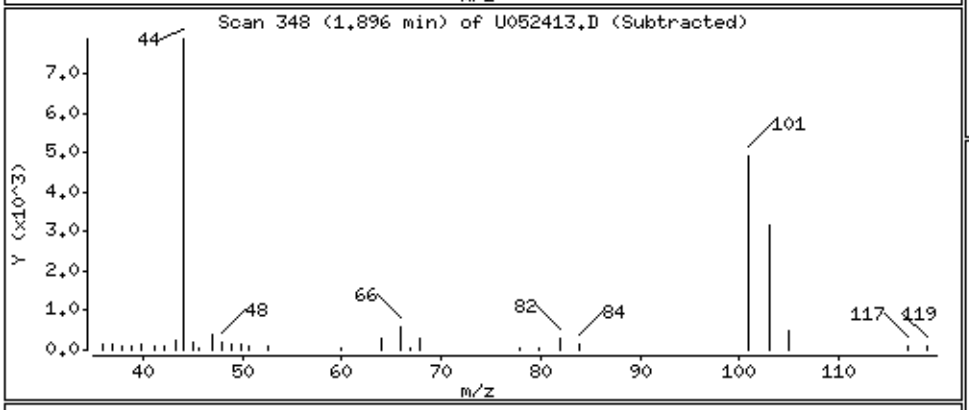
Purge Volume: 5.0 Operator: FT

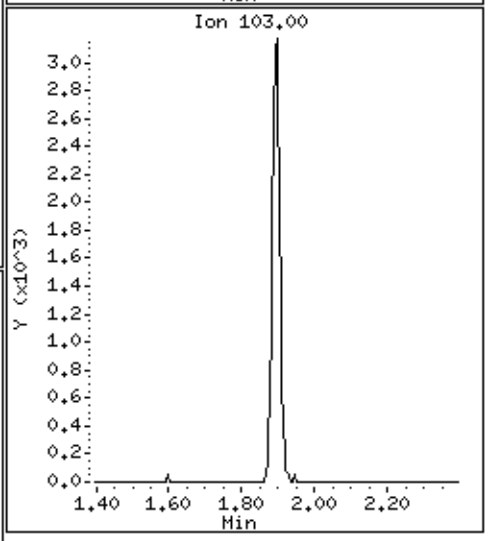
Column phase: DB624 Column diameter: 0.18

8 Trichlorofluoromethane Concentration: 3.06 ug/l









Data File : \\NAHSTWS005\Target\chem\voa9.i\U240524.b\U052413.D
Inj Date : 24-MAY-2024 16:49
InstruID : VOA9.i
LabSampID : HS24051300-10

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240524.b\U052415.D Page 1
Report Date: 22-Jun-2024 11:23

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240524.b\U052415.D
Lab Smp Id: HS24051300-01
Inj Date : 24-MAY-2024 17:32
Operator : FT   Inst ID: VOA9.i
Smp Info : HS24051300-01
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240524.b\8260C.m
Meth Date : 22-Jun-2024 11:22 r.patel   Quant Type: ISTD
Cal Date : 22-MAY-2024 23:36   Cal File: V052211.D
Als bottle: 13
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	4.819	4.815	(1.000)	239579	50.0000	
$ 30 Dibromofluoromethane	113	4.751	4.748	(0.986)	86114	55.0683	55.06
$ 35 1,2-Dichloroethane-d4	65	5.100	5.096	(1.058)	108543	57.2757	57.27
* 36 1,4-Difluorobenzene	114	5.554	5.550	(1.000)	352280	50.0000	
* 47 Chlorobenzene-d5	117	8.185	8.181	(1.000)	321306	50.0000	
$ 48 Toluene-d8	98	6.922	6.918	(0.846)	339051	56.9230	56.92
$ 69 4-Bromofluorobenzene	95	9.194	9.190	(1.123)	120132	54.4192	54.41
* 70 1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	164729	50.0000	

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240524.b\U052415.D

Date : 24-MAY-2024 17:32

Client ID:

Instrument: VOA9.i

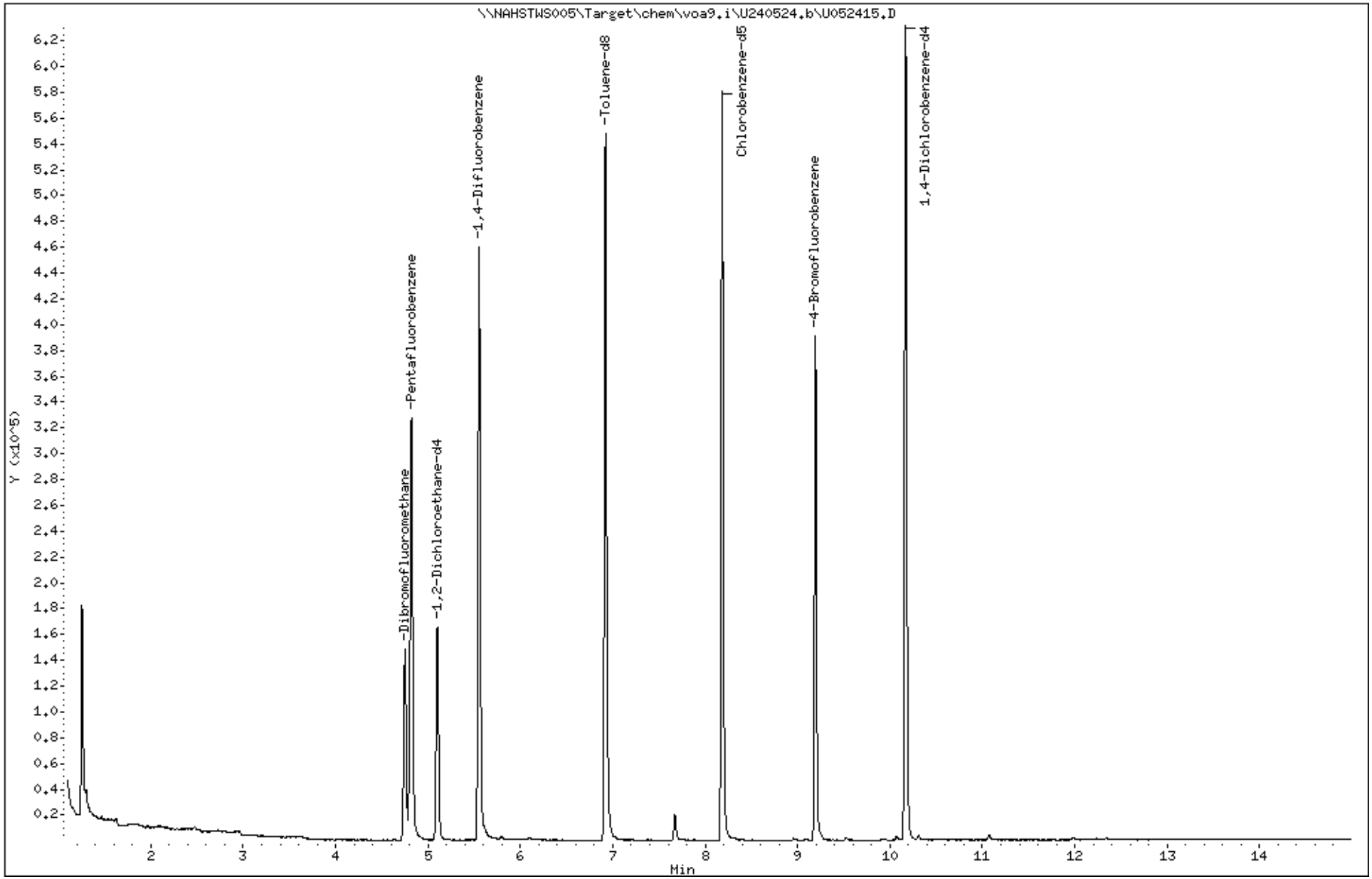
Sample Info: HS24051300-01

Purge Volume: 5.0

Operator: FT

Column phase: DB624

Column diameter: 0.18



Data File : \\NAHSTWS005\Target\chem\voa9.i\U240524.b\U052415.D
Inj Date : 24-MAY-2024 17:32
InstruID : VOA9.i
LabSampID : HS24051300-01

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240524.b\U052416.D Page 1
Report Date: 22-Jun-2024 11:23

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240524.b\U052416.D
Lab Smp Id: HS24051300-02
Inj Date : 24-MAY-2024 17:53
Operator : FT   Inst ID: VOA9.i
Smp Info : HS24051300-02
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240524.b\8260C.m
Meth Date : 22-Jun-2024 11:22 r.patel   Quant Type: ISTD
Cal Date : 22-MAY-2024 23:36   Cal File: V052211.D
Als bottle: 14
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	4.815	4.815	(1.000)	234984	50.0000	
$ 30 Dibromofluoromethane	113	4.748	4.748	(0.986)	86407	56.3279	56.32
$ 35 1,2-Dichloroethane-d4	65	5.096	5.096	(1.058)	110199	59.2991	59.29
* 36 1,4-Difluorobenzene	114	5.550	5.550	(1.000)	348976	50.0000	
* 47 Chlorobenzene-d5	117	8.182	8.181	(1.000)	312364	50.0000	
$ 48 Toluene-d8	98	6.918	6.918	(0.846)	340984	58.8824	58.88
$ 69 4-Bromofluorobenzene	95	9.190	9.190	(1.123)	122363	57.0307	57.03
* 70 1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	158760	50.0000	

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240524.b\U052416.D

Date : 24-MAY-2024 17:53

Client ID:

Instrument: VOA9.i

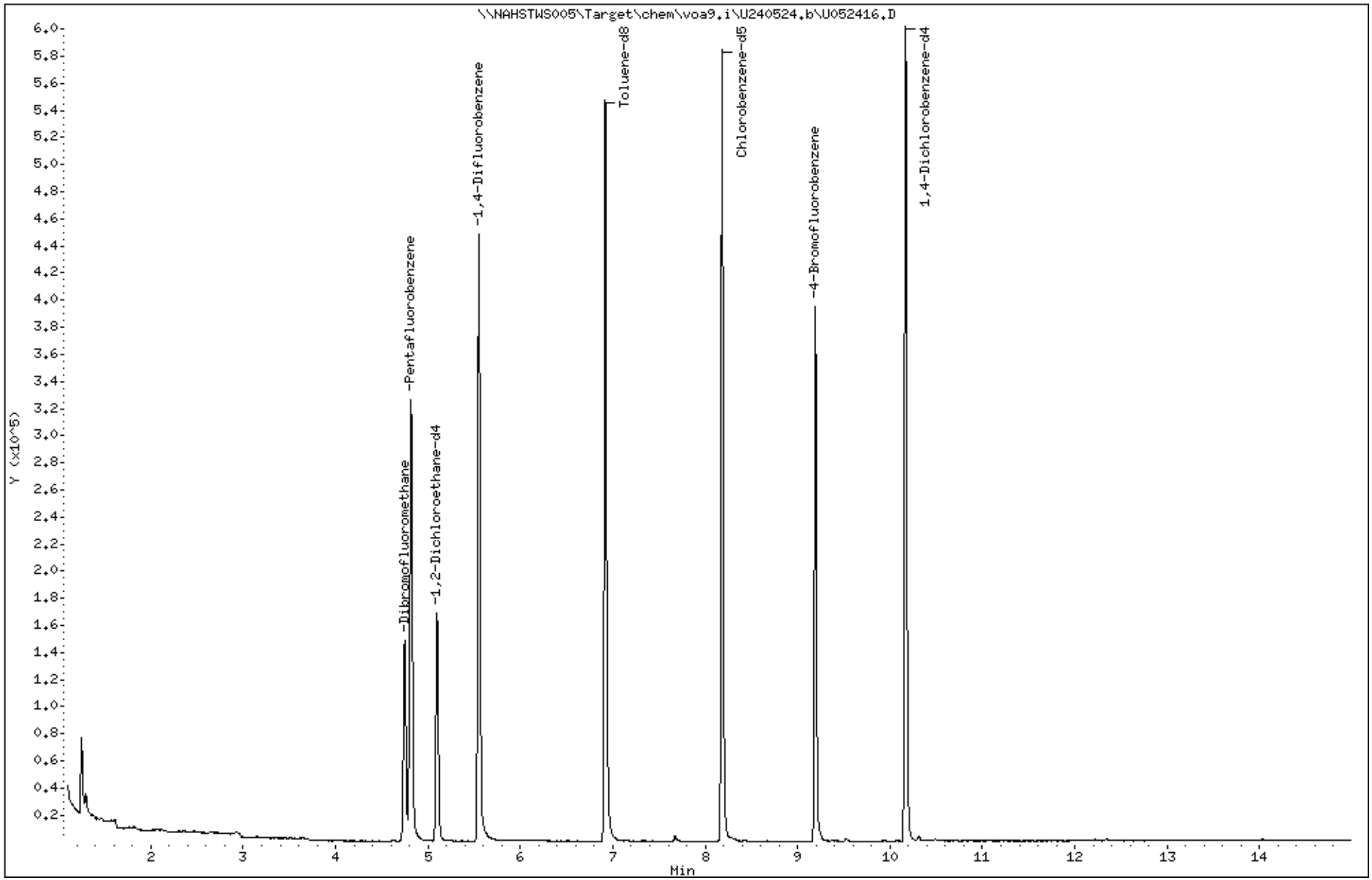
Sample Info: HS24051300-02

Purge Volume: 5.0

Operator: FT

Column phase: DB624

Column diameter: 0.18



Data File : \\NAHSTWS005\Target\chem\voa9.i\U240524.b\U052416.D
Inj Date : 24-MAY-2024 17:53
InstruID : VOA9.i
LabSampID : HS24051300-02

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240524.b\U052417.D Page 1
Report Date: 22-Jun-2024 11:23

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240524.b\U052417.D
Lab Smp Id: HS24051300-03
Inj Date : 24-MAY-2024 18:15
Operator : FT   Inst ID: VOA9.i
Smp Info : HS24051300-03
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240524.b\8260C.m
Meth Date : 22-Jun-2024 11:22 r.patel   Quant Type: ISTD
Cal Date : 22-MAY-2024 23:36   Cal File: V052211.D
Als bottle: 15
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	4.812	4.815	(1.000)	236455	50.0000	
$ 30 Dibromofluoromethane	113	4.744	4.748	(0.986)	86390	55.9689	55.96
$ 35 1,2-Dichloroethane-d4	65	5.093	5.096	(1.058)	110629	59.1593	59.15
* 36 1,4-Difluorobenzene	114	5.550	5.550	(1.000)	349559	50.0000	
* 47 Chlorobenzene-d5	117	8.182	8.181	(1.000)	318020	50.0000	
$ 48 Toluene-d8	98	6.918	6.918	(0.846)	339862	57.6475	57.64
$ 69 4-Bromofluorobenzene	95	9.190	9.190	(1.123)	119308	54.6055	54.60
* 70 1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	158463	50.0000	

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240524.b\U052417.D

Date : 24-MAY-2024 18:15

Client ID:

Instrument: VOA9.i

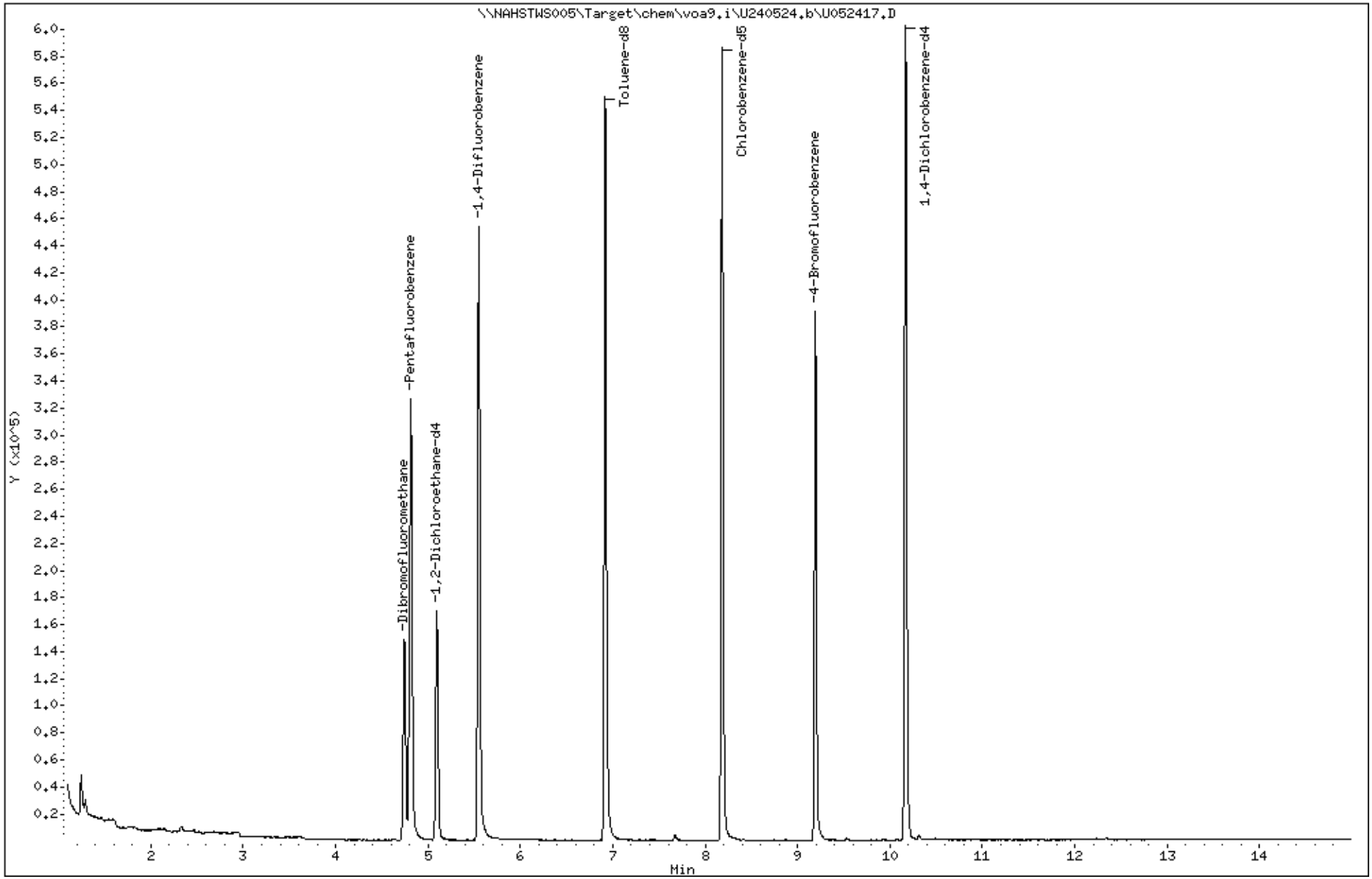
Sample Info: HS24051300-03

Purge Volume: 5.0

Operator: FT

Column phase: DB624

Column diameter: 0.18



Data File : \\NAHSTWS005\Target\chem\voa9.i\U240524.b\U052417.D
Inj Date : 24-MAY-2024 18:15
InstruID : VOA9.i
LabSampID : HS24051300-03

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240524.b\U052421.D Page 1
Report Date: 22-Jun-2024 11:23

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240524.b\U052421.D
Lab Smp Id: HS24051300-06
Inj Date : 24-MAY-2024 19:44
Operator : FT   Inst ID: VOA9.i
Smp Info : HS24051300-06
Misc Info : V9;WATER;0;5;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240524.b\8260C.m
Meth Date : 22-Jun-2024 11:22 r.patel   Quant Type: ISTD
Cal Date : 22-MAY-2024 23:36   Cal File: V052211.D
Als bottle: 19
Dil Factor: 5.00000
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	5.000	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	4.815	4.815	(1.000)	197825	50.0000	
	27	cis-1,2-Dichloroethene	96	4.197	4.193	(0.872)	8272	4.83127	24.15(H)
$	30	Dibromofluoromethane	113	4.748	4.748	(0.986)	68892	53.3630	53.36
$	35	1,2-Dichloroethane-d4	65	5.096	5.096	(1.058)	88821	56.7578	56.75
*	36	1,4-Difluorobenzene	114	5.550	5.550	(1.000)	285486	50.0000	
	38	Trichloroethene	130	5.786	5.786	(1.043)	147740	93.3624	466.81
*	47	Chlorobenzene-d5	117	8.182	8.181	(1.000)	256998	50.0000	
$	48	Toluene-d8	98	6.918	6.918	(0.846)	262651	55.1324	55.13(M)
$	69	4-Bromofluorobenzene	95	9.190	9.190	(1.123)	95371	54.0106	54.01
*	70	1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	128779	50.0000	
M	94	1,2-Dichloroethylene (total)	96				8272	5.27037	26.35(a)
	203	2-Ethylhexyl Acrylate	55	12.047	12.039	(1.185)	2377	3.07613	15.38(a)

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.

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240524.b\U052421.D

Date : 24-MAY-2024 19:44

Client ID:

Instrument: VOA9.i

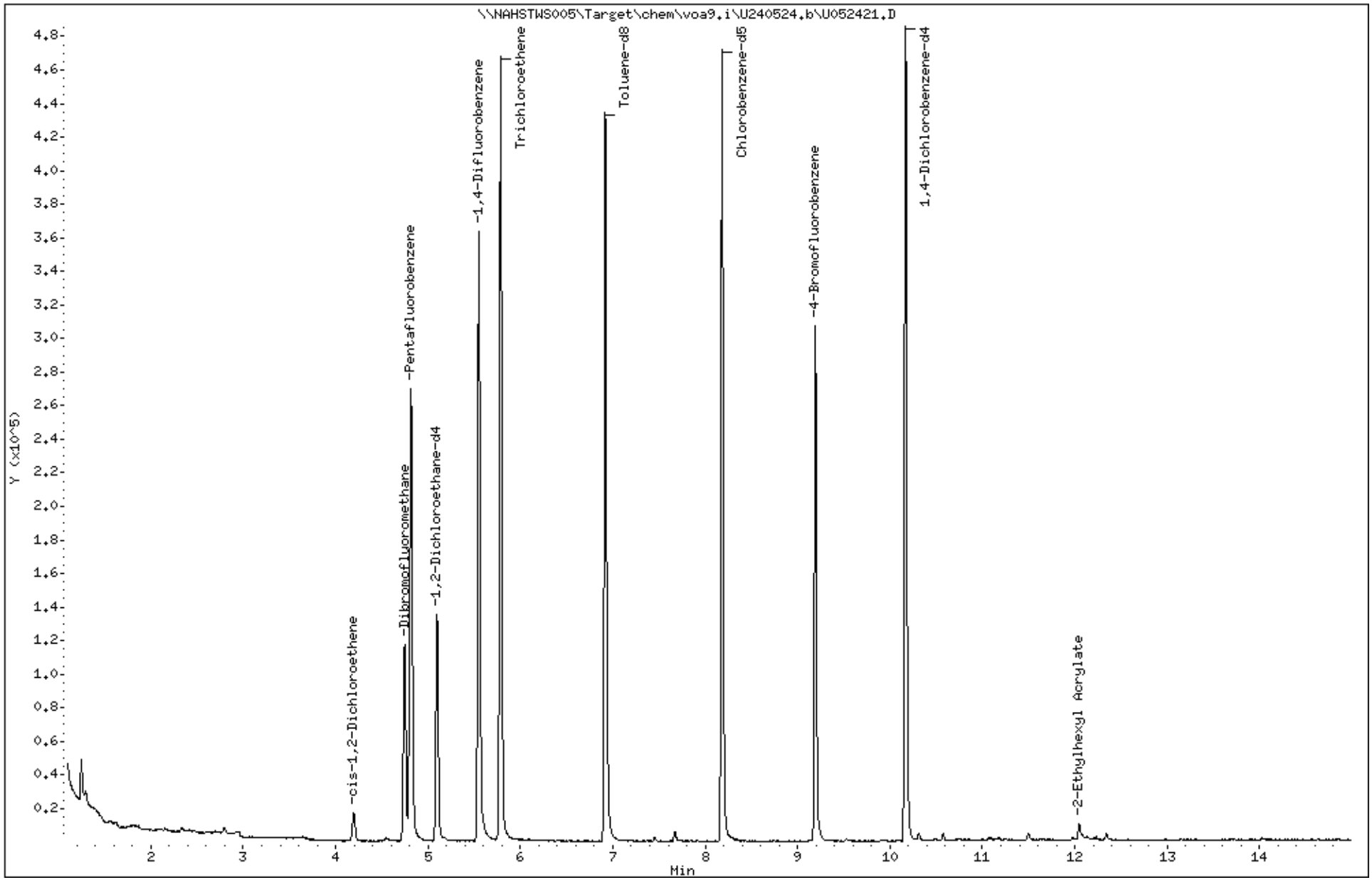
Sample Info: HS24051300-06

Purge Volume: 5.0

Operator: FT

Column phase: DB624

Column diameter: 0.18



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240524.b\U052421.D

Date : 24-MAY-2024 19:44

Client ID:

Instrument: VOA9.i

Sample Info: HS24051300-06

Purge Volume: 5.0

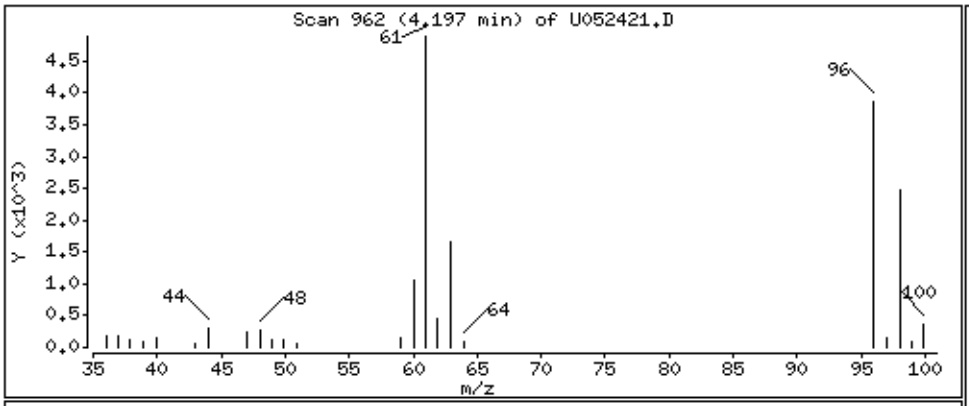
Operator: FT

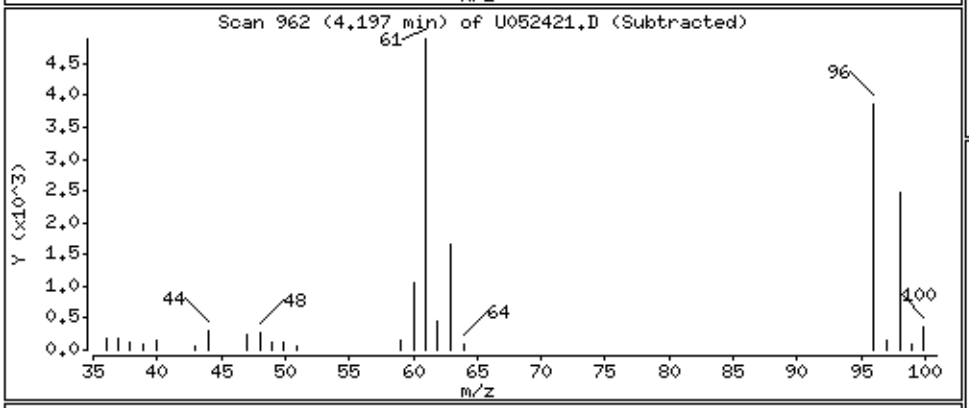
Column phase: DB624

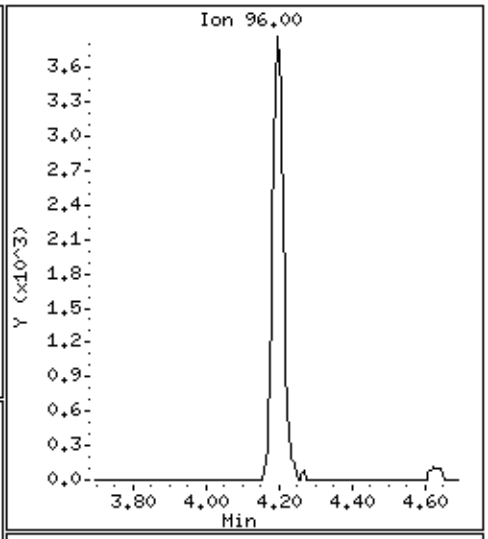
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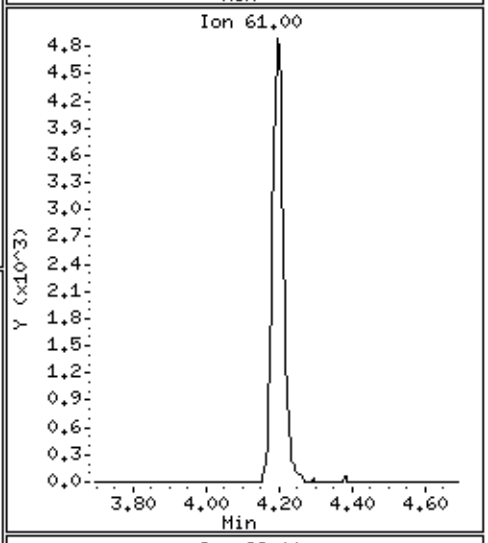
27 cis-1,2-Dichloroethene

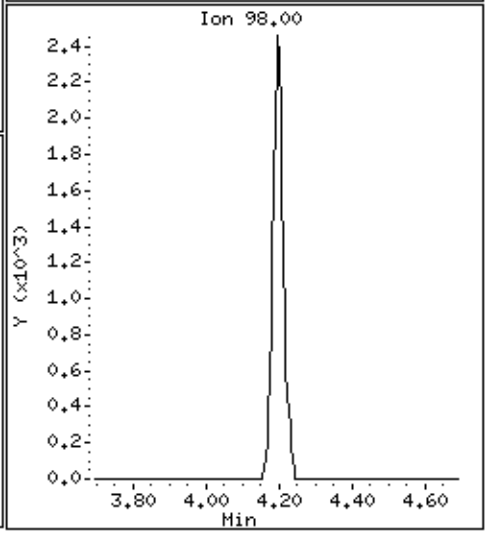
Concentration: 24.15 ug/l











Data File: \\NAHSTWS005\Target\chem\voa9.i\U240524.b\U052421.D Page 3

Date : 24-MAY-2024 19:44

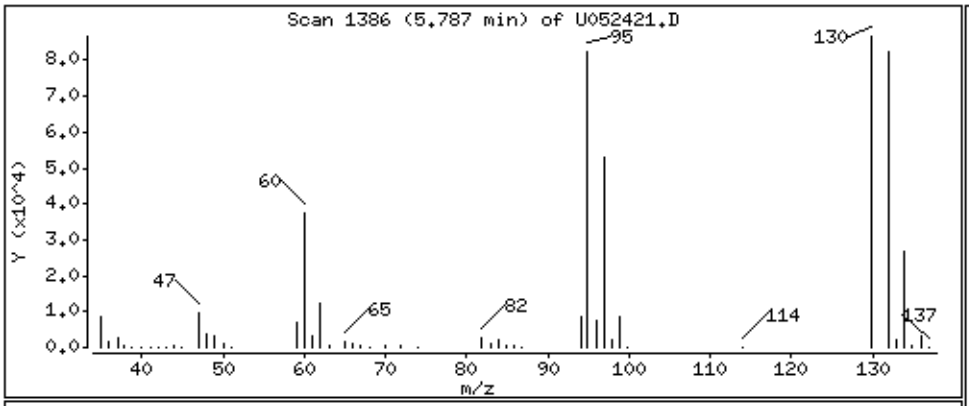
Client ID: Instrument: VOA9.i

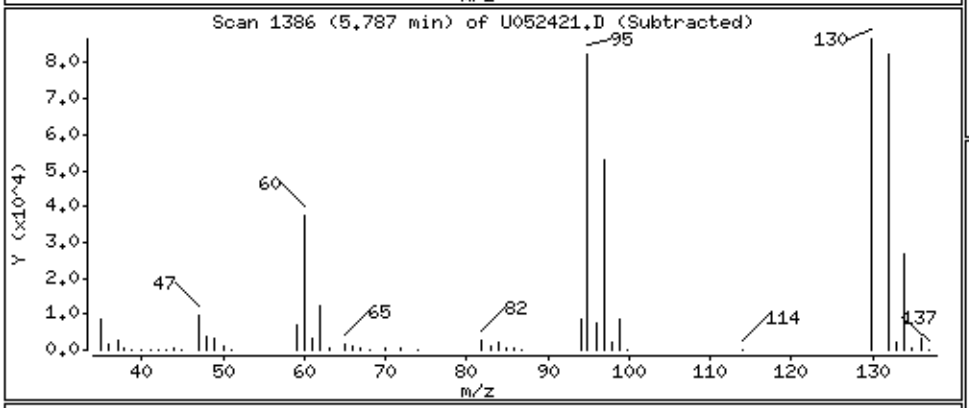
Sample Info: HS24051300-06

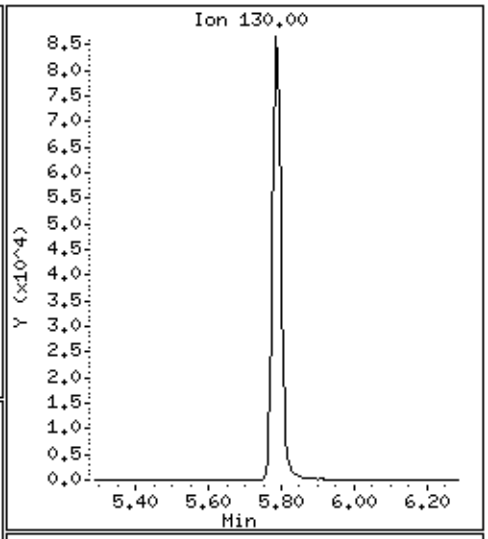
Purge Volume: 5.0 Operator: FT

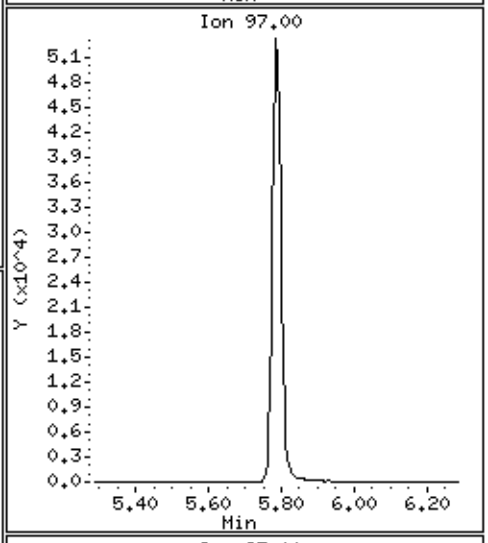
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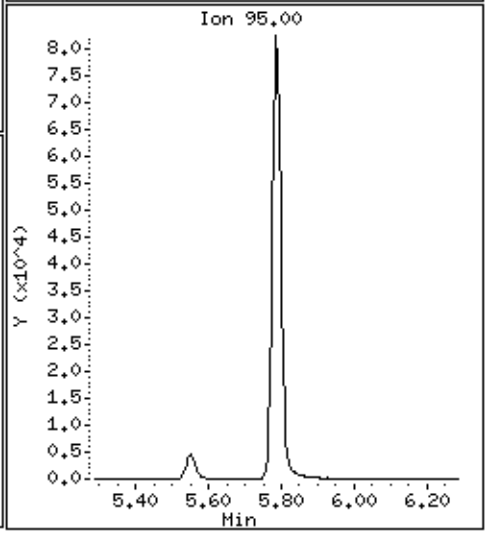
38 Trichloroethene Concentration: 466.81 ug/l











Data File: \\NAHSTWS005\Target\chem\voa9.i\U240524.b\U052421.D

Date : 24-MAY-2024 19:44

Client ID:

Instrument: VOA9.i

Sample Info: HS24051300-06

Purge Volume: 5.0

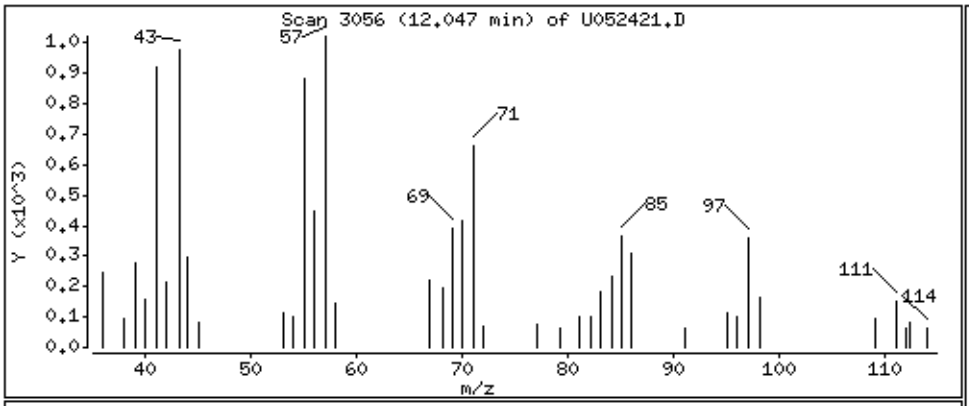
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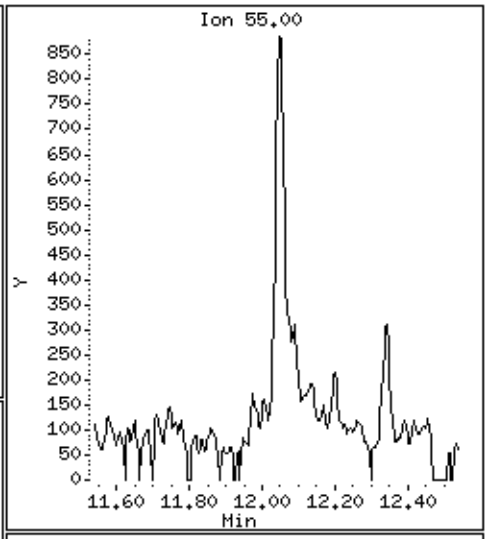
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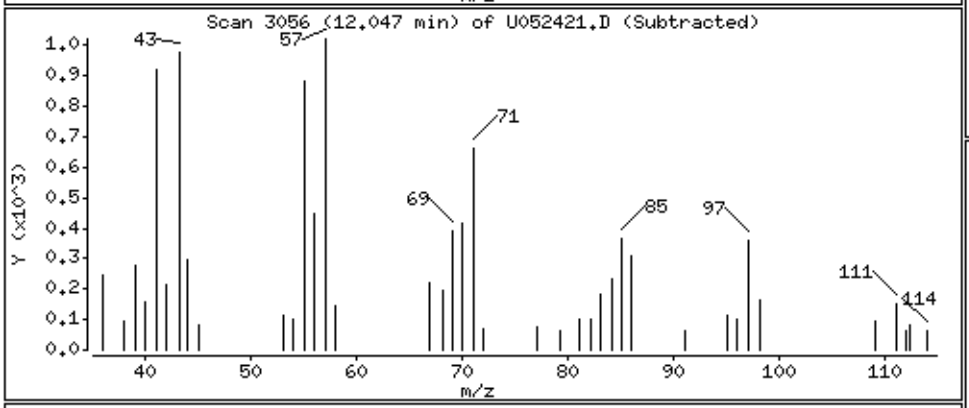
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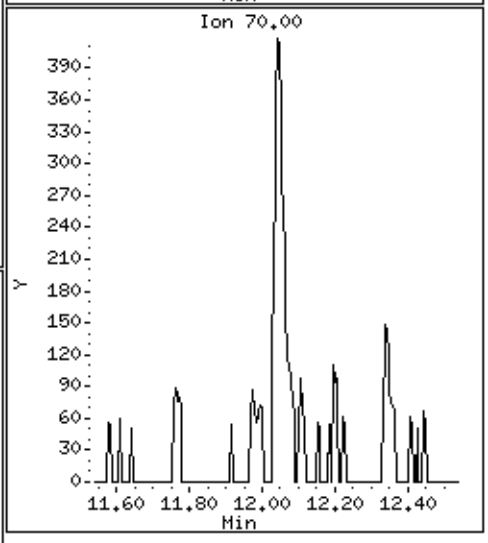
203 2-Ethylhexyl Acrylate

Concentration: 15.38 ug/l







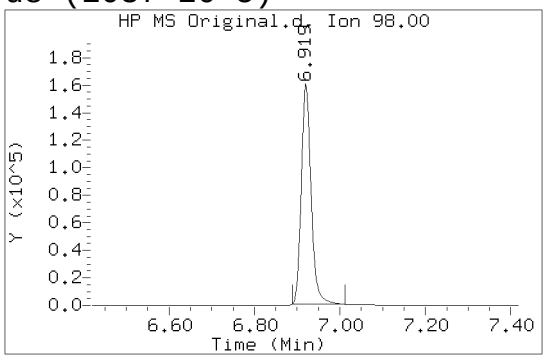


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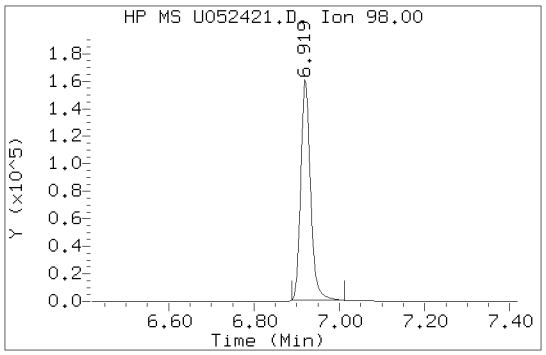
Toluene-d8 (2037-26-5)

Reason Code: MPT

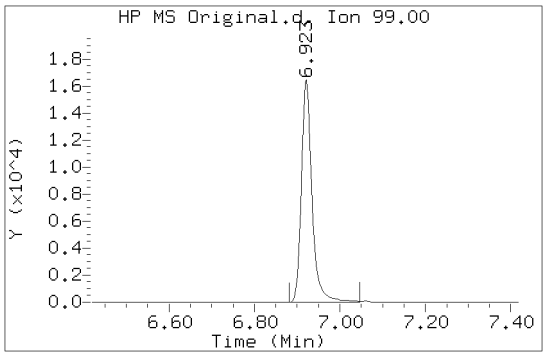
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AREA
262651
HEIGHT
160446
22-Jun-2024
11:23
RUCHA
PATEL



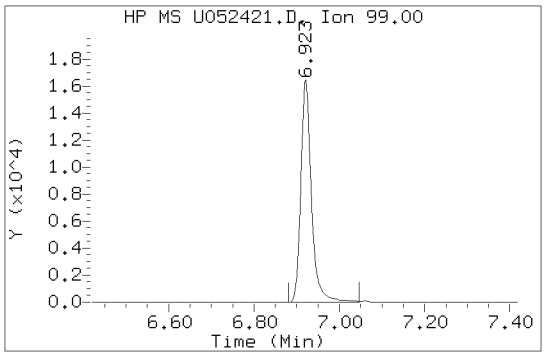
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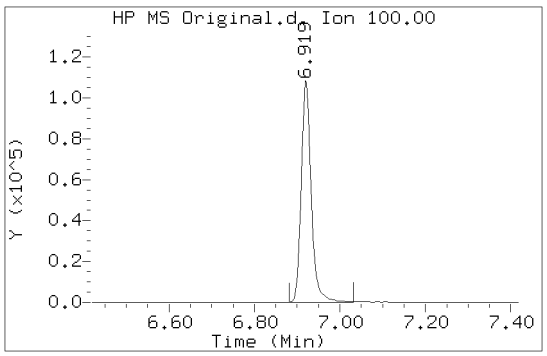
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22-Jun-2024
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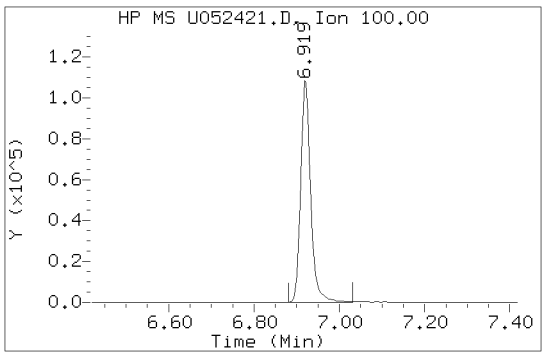
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22-Jun-2024
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RUCHA
PATEL



BEFORE
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AREA
180903
HEIGHT
108440
22-Jun-2024
11:23
RUCHA
PATEL



AFTER
MASS
100
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HEIGHT
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11:23
RUCHA
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Data File: \\NAHSTWS005\Target\chem\voa9.i\U240524.b\U052429.D Page 1
Report Date: 21-Jun-2024 12:14

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240524.b\U052429.D
Lab Smp Id: VSTD050 Client Smp ID: VSTD050
Inj Date : 24-MAY-2024 22:38
Operator : FT Inst ID: VOA9.i
Smp Info : VSTD050;VSTD050;2;;CCV
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240524.b\8260C.m
Meth Date : 21-Jun-2024 12:14 VOA9.i Quant Type: ISTD
Cal Date : 22-MAY-2024 23:36 Cal File: V052211.D
Als bottle: 27 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7014

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	4.815	4.815	(1.000)	248695	50.0000	
2	Dichlorodifluoromethane	85	1.164	1.164	(0.242)	61669	50.0000	46.47
3	Chloromethane	50	1.295	1.295	(0.269)	205163	50.0000	44.68
4	Propionitrile	54	4.335	4.335	(0.900)	145753	500.000	582.71
5	Vinyl Chloride	62	1.378	1.378	(0.286)	98503	50.0000	43.73
6	Bromomethane	94	1.614	1.614	(0.335)	35965	50.0000	52.61
7	Chloroethane	64	1.700	1.700	(0.353)	67318	50.0000	42.39
8	Trichlorofluoromethane	101	1.895	1.895	(0.394)	119533	50.0000	46.50
9	Acrolein	56	2.262	2.262	(0.470)	9162	100.000	98.88
10	Acetone	43	2.409	2.409	(0.500)	64999	100.000	92.24
11	1,1-Dichloroethene	96	2.334	2.334	(0.485)	67718	50.0000	43.26
12	Isobutyl Alcohol	43	5.284	5.284	(1.097)	265007	1000.00	1015.75
13	Acetonitrile	39	2.671	2.671	(0.555)	97567	500.000	475.01
14	Allyl Chloride	41	2.671	2.671	(0.555)	235863	50.0000	52.05
15	Iodomethane	142	2.465	2.465	(0.512)	21055	100.000	70.71
16	Acrylonitrile	53	3.065	3.065	(0.636)	69878	100.000	108.45
17	Methylene Chloride	84	2.795	2.795	(0.580)	87039	50.0000	47.43
18	Methyl tert-butyl ether	73	3.080	3.080	(0.640)	232169	50.0000	54.43
19	Carbon Disulfide	76	2.521	2.521	(0.524)	403542	100.000	85.19
20	trans-1,2-Dichloroethene	96	3.057	3.057	(0.635)	75081	50.0000	41.85

21 Vinyl Acetate	43	4.339	4.339 (0.901)	96497	100.000	92.76
22 1,1-Dichloroethane	63	3.514	3.514 (0.730)	145618	50.0000	47.55

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240524.b\U052429.D Page 2
Report Date: 21-Jun-2024 12:14

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	23 Chloroprene	53	3.608	3.608	(0.749)	120478	50.0000	43.94
	24 2-Butanone	43	4.264	4.264	(0.886)	93678	100.000	90.08
	25 Methacrylonitrile	41	4.493	4.493	(0.933)	61060	50.0000	51.99(a)
	26 2,2-Dichloropropane	77	4.182	4.182	(0.868)	81356	50.0000	37.08
	27 cis-1,2-Dichloroethene	96	4.193	4.193	(0.871)	89433	50.0000	41.54
	28 Chloroform	83	4.571	4.571	(0.949)	149337	50.0000	46.98
	29 Bromochloromethane	128	4.470	4.470	(0.928)	45765	50.0000	48.74
$	30 Dibromofluoromethane	113	4.748	4.748	(0.986)	93120	50.0000	57.34
	31 1,1,1-Trichloroethane	97	4.740	4.740	(0.984)	116765	50.0000	46.58
	32 1,1-Dichloropropene	75	4.920	4.920	(0.887)	111433	50.0000	43.69
	33 1,2-Dichloroethane	62	5.175	5.175	(0.932)	118938	50.0000	47.07
	34 Carbon Tetrachloride	117	4.909	4.909	(0.885)	93352	50.0000	45.04
$	35 1,2-Dichloroethane-d4	65	5.096	5.096	(1.058)	110848	50.0000	56.34
*	36 1,4-Difluorobenzene	114	5.550	5.550	(1.000)	361089	50.0000	
	37 Benzene	78	5.138	5.138	(0.926)	346962	50.0000	46.70
	38 Trichloroethene	130	5.786	5.786	(1.043)	87613	50.0000	43.77
	39 Bromodichloromethane	83	6.277	6.277	(1.131)	101266	50.0000	46.06
	40 Methyl Methacrylate	41	5.820	5.820	(1.209)	35078	50.0000	54.45
	41 2-Chloroethylvinyl ether	63	6.573	6.573	(1.184)	54737	100.000	73.06
	42 1,2-Dichloropropane	63	6.007	6.007	(1.082)	93346	50.0000	46.42
	43 2-Nitropropane	43	6.506	6.506	(1.351)	20931	50.0000	56.68
	44 Dibromomethane	93	6.116	6.116	(1.102)	53224	50.0000	42.74
	45 4-Methyl-2-Pentanone	43	6.851	6.851	(0.837)	200258	100.000	88.98
	46 cis-1,3-Dichloropropene	75	6.690	6.690	(1.205)	118342	50.0000	46.66
*	47 Chlorobenzene-d5	117	8.181	8.181	(1.000)	326235	50.0000	
$	48 Toluene-d8	98	6.918	6.918	(0.846)	365042	50.0000	60.35
	49 Ethyl Methacrylate	69	7.289	7.289	(1.313)	135989	50.0000	51.05
	50 Toluene	91	6.978	6.978	(0.853)	355521	50.0000	43.12
	51 trans-1,3-Dichloropropene	75	7.196	7.196	(1.296)	95519	50.0000	43.41
	52 2-Hexanone	43	7.589	7.589	(0.928)	123131	100.000	81.70
	53 1,1,2-Trichloroethane	83	7.353	7.353	(0.899)	67635	50.0000	46.80
	54 1,3-Dichloropropane	76	7.495	7.495	(0.916)	145494	50.0000	46.80
	55 Dibromochloromethane	129	7.690	7.690	(0.940)	77650	50.0000	48.56
	56 Tetrachloroethene	164	7.454	7.454	(0.911)	68914	50.0000	44.33
	57 1,2-Dibromoethane	107	7.780	7.780	(0.951)	77421	50.0000	44.37
	58 1-Chlorohexane	55	8.193	8.193	(1.476)	70679	50.0000	44.07
	59 Chlorobenzene	112	8.208	8.208	(1.003)	226686	50.0000	46.85
	60 1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	77020	50.0000	45.25
	61 Ethylbenzene	106	8.305	8.305	(1.015)	114514	50.0000	43.33
	62 m,p-Xylenes	106	8.406	8.406	(1.027)	287539	100.000	88.60
	63 o-Xylene	106	8.744	8.744	(1.069)	144312	50.0000	45.43
	64 Styrene	104	8.759	8.759	(1.071)	245309	50.0000	45.52
	66 Bromoform	173	8.916	8.916	(1.090)	47324	50.0000	43.65
	67 Isopropylbenzene	105	9.059	9.059	(1.107)	358773	50.0000	45.54
	68 1,1,2,2-Tetrachloroethane	83	9.325	9.325	(0.917)	109212	50.0000	45.58
$	69 4-Bromofluorobenzene	95	9.190	9.190	(1.123)	133859	50.0000	59.74
*	70 1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	176655	50.0000	
	71 1,2,3-Trichloropropane	75	9.359	9.359	(0.920)	107420	50.0000	44.06
	72 trans-1,4-Dichloro-2-butene	53	9.374	9.374	(1.146)	21273	50.0000	40.46
	73 n-Propylbenzene	91	9.411	9.411	(0.926)	414851	50.0000	45.46
	74 Bromobenzene	156	9.314	9.314	(0.916)	97077	50.0000	41.78
	75 1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	290980	50.0000	46.21

76	2-Chlorotoluene	91	9.479	9.479 (0.932)	251895	50.0000	42.60
77	4-Chlorotoluene	91	9.572	9.572 (0.941)	289176	50.0000	42.94

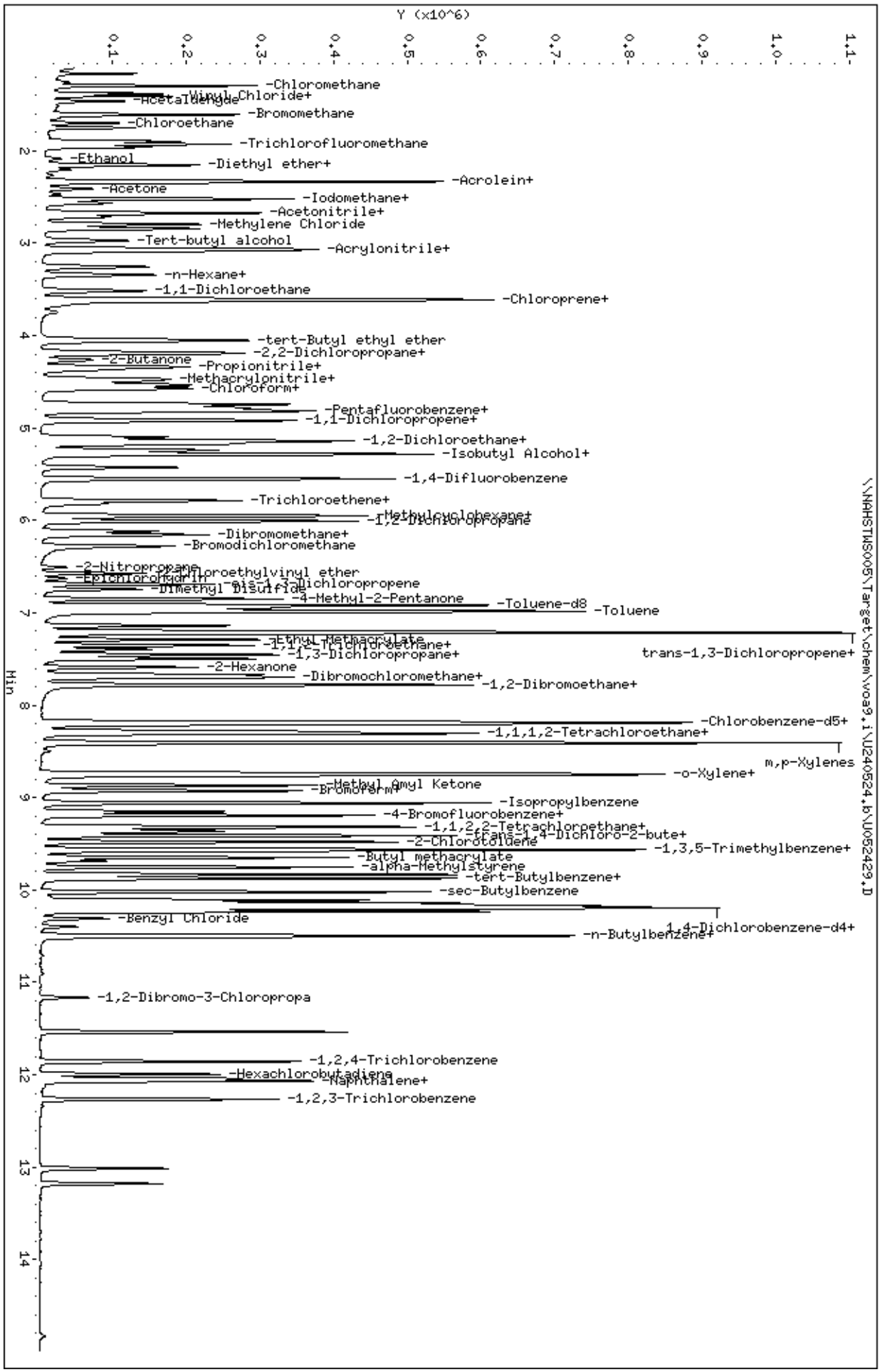
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)	
78	tert-Butylbenzene	119	9.835	9.835	(0.967)	250972	50.0000	45.43	
79	1,2,4-Trimethylbenzene	105	9.876	9.876	(0.971)	285160	50.0000	44.14	
81	sec-Butylbenzene	105	10.018	10.018	(0.985)	335062	50.0000	45.64	
82	p-Isopropyltoluene	119	10.142	10.142	(0.997)	292932	50.0000	45.83	
83	1,3-Dichlorobenzene	146	10.112	10.112	(0.994)	170555	50.0000	45.70	
84	1,4-Dichlorobenzene	146	10.187	10.187	(1.002)	178745	50.0000	45.98	
86	Benzyl Chloride	91	10.311	10.311	(1.260)	61117	50.0000	29.95	
87	n-Butylbenzene	91	10.491	10.491	(1.032)	246327	50.0000	41.91	
88	1,2-Dichlorobenzene	146	10.502	10.502	(1.033)	167934	50.0000	45.73	
89	1,2-Dibromo-3-Chloropropane	155	11.165	11.165	(1.098)	12546	50.0000	42.22	
90	1,2,4-Trichlorobenzene	180	11.855	11.855	(1.166)	106237	50.0000	40.06	
91	Hexachlorobutadiene	225	11.994	11.994	(1.180)	44452	50.0000	41.69	
92	Naphthalene	128	12.065	12.065	(1.187)	252564	50.0000	44.89	
93	1,2,3-Trichlorobenzene	180	12.268	12.268	(1.206)	96057	50.0000	38.89	
146	Methyl acetate	43	2.712	2.712	(0.563)	94391	50.0000	48.55	
138	Freon TF	101	2.337	2.337	(0.485)	137352	50.0000	51.29	
141	Cyclohexane	56	4.781	4.781	(0.993)	130414	50.0000	47.59	
142	Tetrahydrofuran	42	4.542	4.542	(0.943)	36611	100.000	114.50	
147	Methylcyclohexane	55	5.944	5.944	(1.071)	233121	50.0000	53.77	
135	1,4-Dioxane	88	6.165	6.165	(1.280)	19318	1000.00	1061.33	
132	n-Butanol	56	5.820	5.820	(1.209)	46417	1000.00	990.92	
136	n-Hexane	57	3.342	3.342	(0.694)	75341	50.0000	42.34	
139	Diethyl ether	59	2.146	2.146	(0.446)	64113	50.0000	54.18	
148	Tert-butyl alcohol	59	2.971	2.971	(0.617)	130639	1000.00	1175.29	
149	Isopropyl alcohol	45	2.566	2.566	(0.533)	106047	1000.00	1170.77	
152	Amyl alcohol	42	7.394	7.394	(0.904)	55388	1000.00	1108.19	
156	Diisopropyl ether	45	3.619	3.619	(0.752)	309775	50.0000	54.21	
162	Butyl acrylate	55	8.729	8.729	(1.067)	172407	50.0000	49.96	
187	n-Amyl acetate	43	8.927	8.927	(1.091)	152914	50.0000	47.00	
164	Dicyclopentadiene	66	10.198	10.198	(1.003)	413912	50.0000	53.52	
166	1,2,3-Trimethylbenzene	105	10.232	10.232	(1.006)	315473	50.0000	52.67	
167	Ethanol	45	2.086	2.086	(0.433)	20598	1000.00	1178.73	
172	tert-Butyl formate	59	5.239	5.239	(1.088)	135634	100.000	122.11	
173	3,3-Dimethyl-1-butanol	57	7.777	7.777	(0.951)	210009	1000.00	1197.04	
174	tert-Amyl methyl ether	73	5.284	5.284	(1.097)	278696	50.0000	50.67	
175	tert-Butyl ethyl ether	59	4.050	4.050	(0.841)	273515	50.0000	49.47	
176	tert-Amyl alcohol	59	5.239	5.239	(1.088)	135634	1000.00	1205.95	
151	4-Methyl-2-pentanol	45	7.214	7.214	(1.300)	599001	1000.00	1109.32	
140	1,3-Butadiene	54	1.404	1.404	(0.292)	45291	50.0000	46.09	
182	Epichlorohydrin	57	6.630	6.630	(1.195)	23594	200.000	203.23	
M 94	1,2-Dichloroethylene (total)	96				164514	100.000		(a)
145	alpha-Methylstyrene	118	9.752	9.752	(0.959)	116155	50.0000	44.88	
130	Ethyl Acetate	43	4.339	4.339	(0.901)	96497	50.0000	46.42	
131	Methyl Acrylate	55	4.369	4.369	(0.907)	117452	50.0000	54.96	
189	n-Butyl acetate	43	7.702	7.702	(0.941)	142780	50.0000	42.44	
134	Cyclohexanone	55	9.149	9.149	(0.900)	98904	1000.00	1046.60	
185	Isoprene	39	2.157	2.157	(0.448)	19962	50.0000	47.22	
188	Isopropyl acetate	43	5.284	5.284	(0.952)	263413	50.0000	50.40	
150	Allyl alcohol	57	3.342	3.342	(0.694)	75341	1000.00	846.90	
194	Acetaldehyde	44	1.460	1.460	(0.303)	103956	200.000	310.10	
195	Methyl Amyl Ketone	43	8.864	8.864	(1.083)	206121	50.0000	50.38	
200	Dimethyl Disulfide	94	6.746	6.746	(0.825)	51828	50.0000	46.11	

133 Ethyl Acrylate	55	5.944	5.944 (1.234)	233121	50.0000	53.16
163 Butyl methacrylate	41	9.647	9.647 (0.949)	107185	50.0000	54.18

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)
159 Propylene oxide	43	2.202	2.202	(0.457)	11850	100.000	90.25
203 2-Ethylhexyl Acrylate	55	12.039	12.039	(1.184)	90422	50.0000	52.10

QC Flag Legend

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



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240524.b\U052429.D
Date : 24-MAY-2024 22:38
Client ID: VSTD050
Sample Info: VSTD050;VSTD050;2;;CCV
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9.i
Operator: FT
Column diameter: 0.18

Data File : \\NAHSTWS005\Target\chem\voa9.i\U240524.b\U052429.D
Inj Date : 24-MAY-2024 22:38
InstruID : VOA9.i
LabSampID : VSTD050

NO MANUAL INTEGRATIONS

right solutions.
right partner.

RawData

<textMethods>

Workorder

HS24051300

Client

Bhate Environmental Associates, Inc.

Project

LHAAP Site 50

06/22/2024

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\voa9.i\U240529.b\U052901.D Page 1
Report Date: 07-Jun-2024 10:54

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052901.D
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 29-MAY-2024 10:17
Operator : FT Inst ID: VOA9.i
Smp Info : BFB;BFB;3;;BFB
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240529.b\bfb.m
Meth Date : 27-Jan-2023 08:08 apoluri Quant Type: ISTD
Cal Date : 22-MAY-2024 23:36 Cal File: V052211.D
Als bottle: 1 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: WATER

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

RT	EXP RT	REL RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	CONCENTRATIONS FINAL (ug/l)	TARGET RANGE	RATIO
1 bfb						CAS #: 460-00-4		
0.000	9.180	(0.000)	95	100952			0.00- 100.00	100.00
0.000	9.180	(0.000)	50	17456			15.00- 40.00	17.29
0.000	9.180	(0.000)	75	47384			30.00- 60.00	46.94
0.000	9.180	(0.000)	96	6990			5.00- 9.00	6.92
0.000	9.180	(0.000)	173	0	0.0	0.0	0.00- 2.00	0.00
0.000	9.180	(0.000)	174	94448			50.00- 0.00	93.56
0.000	9.180	(0.000)	175	7851			5.00- 9.00	8.31
0.000	9.180	(0.000)	176	91680			95.00- 101.00	97.07
0.000	9.180	(0.000)	177	6078			5.00- 9.00	6.63

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	17.29
75	30.00 - 60.00% of mass 95	46.94
96	5.00 - 9.00% of mass 95	6.92
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	93.56
175	5.00 - 9.00% of mass 174	7.78 (8.31)
176	95.00 - 101.00% of mass 174	90.82 (97.07)
177	5.00 - 9.00% of mass 176	6.02 (6.63)

Data File: U052901.D
Spectrum: HP ChemStation MS U052901.D, Scan 2295: 9.194 min.
Location of Maximum: 95.05
Number of points: 95

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	859	62.00	4363	92.00	2598	129.90	296
37.10	4380	63.00	3206	93.00	4116	130.90	118
38.00	3865	64.00	324	94.00	11601	134.80	152
39.00	1630	65.00	168	95.00	100952	136.80	155
39.90	200	68.00	9629	96.00	6990	140.00	118
40.90	127	69.00	9346	97.00	240	140.90	875
41.90	88	70.00	818	103.80	421	142.90	956
43.00	185	71.20	149	104.90	235	143.80	67
43.90	647	72.00	527	105.90	374	145.00	97
45.00	856	73.00	3880	107.00	81	145.80	148
46.00	113	74.00	16029	109.90	57	147.90	206
47.10	1333	75.00	47384	110.80	79	148.90	76
48.00	656	76.00	4374	111.80	67	152.90	111
49.00	3818	76.90	655	114.90	110	154.80	253
50.00	17456	78.00	457	115.80	297	156.80	196
51.00	5468	78.90	2299	116.90	575	158.90	96
52.00	295	80.00	687	117.90	300	160.80	160
52.90	56	80.90	2360	118.90	421	172.00	351
55.00	281	81.90	475	119.80	65	173.90	94448
56.00	1246	82.90	54	120.10	63	175.00	7851
57.00	2728	85.80	133	123.70	60	175.90	91680
58.10	101	87.00	4708	127.10	51	176.90	6078
60.10	915	88.00	4557	127.90	391	177.90	182
61.00	4230	90.90	394	128.80	198		

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052901.D Page 1

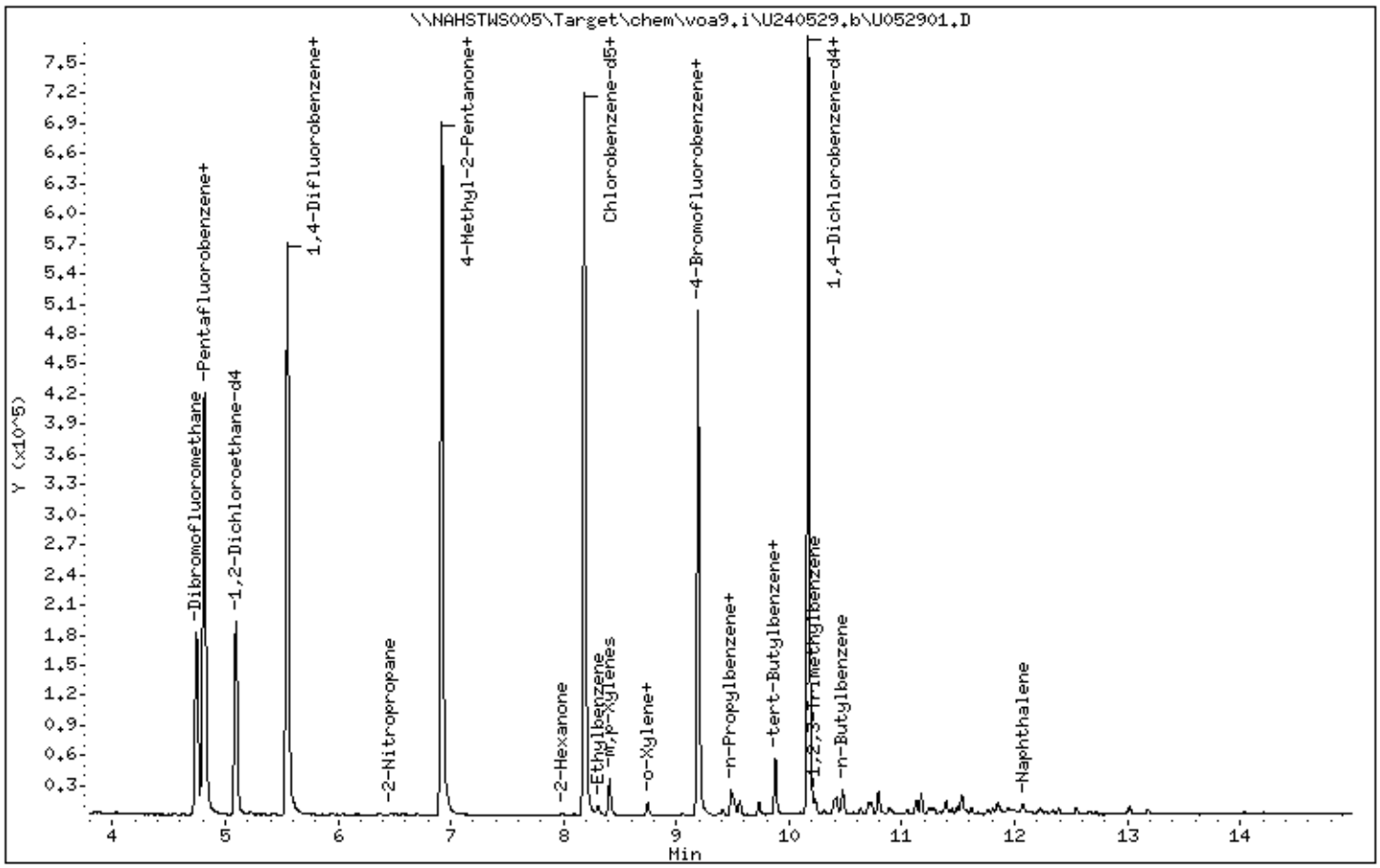
Date : 29-MAY-2024 10:17

Client ID: BFB Instrument: VOA9.i

Sample Info: BFB;BFB;3;;BFB

Volume Injected (uL): 2.0 Operator: FT

Column phase: DB624 Column diameter: 0.25



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052901.D Page 2

Date : 29-MAY-2024 10:17

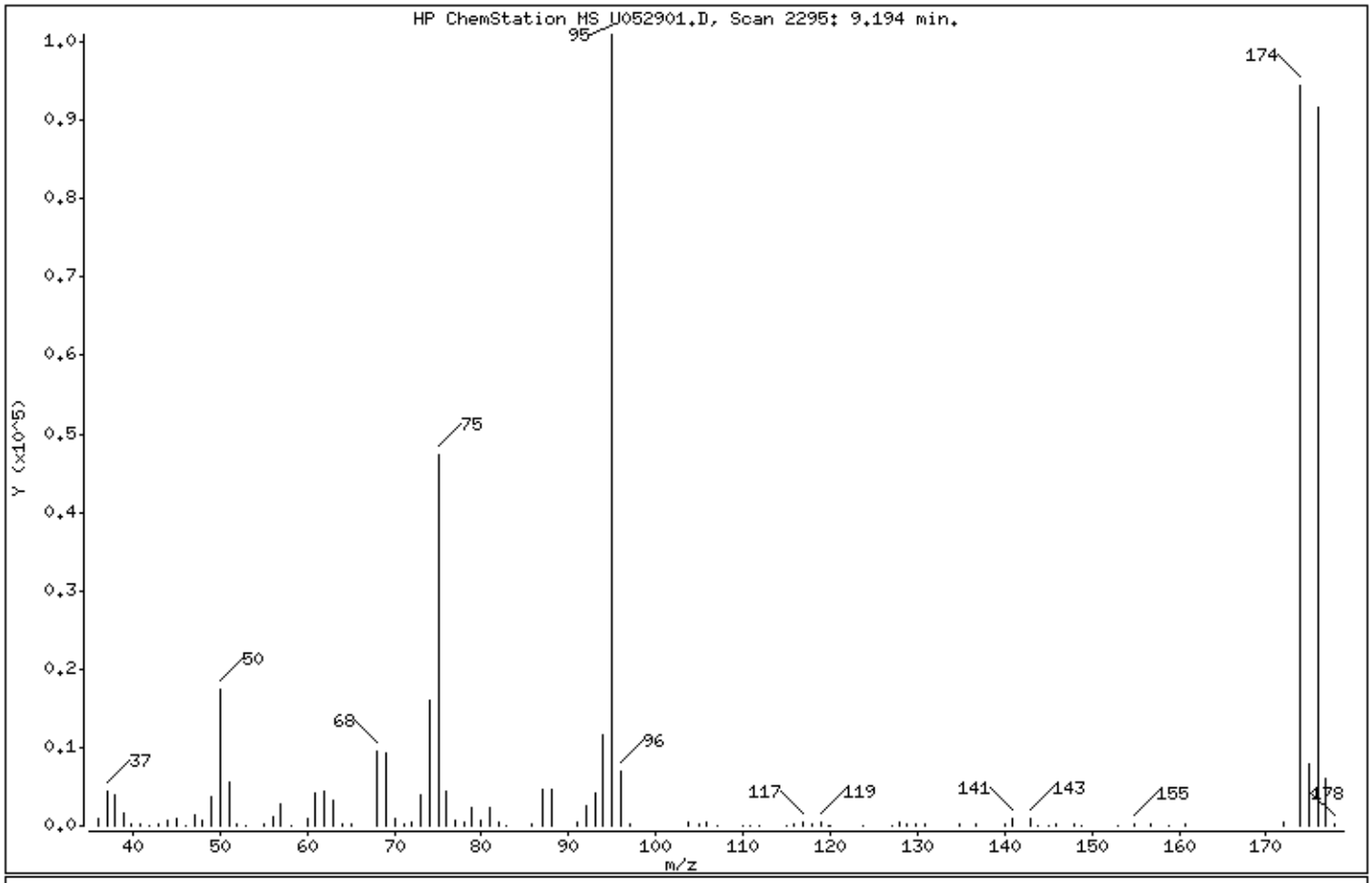
Client ID: BFB Instrument: VOA9.i

Sample Info: BFB;BFB;3;;BFB

Volume Injected (uL): 2.0 Operator: FT

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	17.29
75	30.00 - 60.00% of mass 95	46.94
96	5.00 - 9.00% of mass 95	6.92
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	93.56
175	5.00 - 9.00% of mass 174	7.78 (8.31)
176	95.00 - 101.00% of mass 174	90.82 (97.07)
177	5.00 - 9.00% of mass 176	6.02 (6.63)

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052901.D Page 3

Date : 29-MAY-2024 10:17

Client ID: BFB Instrument: VOA9.i

Sample Info: BFB;BFB;3;;BFB

Volume Injected (uL): 2.0 Operator: FT

Column phase: DB624 Column diameter: 0.25

Data File: U052901.D
Spectrum: HP ChemStation MS U052901.D, Scan 2295: 9.194 min.
Location of Maximum: 95.05
Number of points: 95

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	859	62.00	4363	92.00	2598	129.90	296
37.10	4380	63.00	3206	93.00	4116	130.90	118
38.00	3865	64.00	324	94.00	11601	134.80	152
39.00	1630	65.00	168	95.00	100952	136.80	155
39.90	200	68.00	9629	96.00	6990	140.00	118
40.90	127	69.00	9346	97.00	240	140.90	875
41.90	88	70.00	818	103.80	421	142.90	956
43.00	185	71.20	149	104.90	235	143.80	67
43.90	647	72.00	527	105.90	374	145.00	97
45.00	856	73.00	3880	107.00	81	145.80	148
46.00	113	74.00	16029	109.90	57	147.90	206
47.10	1333	75.00	47384	110.80	79	148.90	76
48.00	656	76.00	4374	111.80	67	152.90	111
49.00	3818	76.90	655	114.90	110	154.80	253
50.00	17456	78.00	457	115.80	297	156.80	196
51.00	5468	78.90	2299	116.90	575	158.90	96
52.00	295	80.00	687	117.90	300	160.80	160
52.90	56	80.90	2360	118.90	421	172.00	351
55.00	281	81.90	475	119.80	65	173.90	94448
56.00	1246	82.90	54	120.10	63	175.00	7851
57.00	2728	85.80	133	123.70	60	175.90	91680
58.10	101	87.00	4708	127.10	51	176.90	6078
60.10	915	88.00	4557	127.90	391	177.90	182
61.00	4230	90.90	394	128.80	198		

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052902.D Page 1
Report Date: 07-Jun-2024 10:54

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052902.D
Lab Smp Id: VSTD00.25 Client Smp ID: VSTD00.25
Inj Date : 29-MAY-2024 10:39
Operator : FT Inst ID: VOA9.i
Smp Info : VSTD00.25;VSTD00.25;1;1
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240529.b\8260C.m
Meth Date : 07-Jun-2024 10:14 r.patel Quant Type: ISTD
Cal Date : 29-MAY-2024 10:39 Cal File: U052902.D
Als bottle: 2 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14

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

		QUANT SIG					AMOUNTS CAL-AMT	ON-COL
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/l)	(ug/l)
*	1 Pentafluorobenzene	168	4.812	4.811	(1.000)	302933	50.0000	
	2 Dichlorodifluoromethane	85	1.007	1.156	(0.209)	11048	0.25000	9.78
	3 Chloromethane	50	1.295	1.288	(0.269)	4781	0.25000	0.47(a)
	4 Propionitrile	54	4.343	4.339	(0.903)	1009	2.50000	(aM)
	7 Chloroethane	64	1.595	1.681	(0.332)	1923	0.25000	0.91
	14 Allyl Chloride	41	2.671	2.667	(0.555)	1847	0.25000	0.07(a)
$	30 Dibromofluoromethane	113	4.744	4.744	(0.986)	1289	0.25000	0.14(a)
	33 1,2-Dichloroethane	62	4.812	5.171	(0.867)	963	0.25000	0.89
	34 Carbon Tetrachloride	117	4.812	4.905	(0.867)	25016	0.25000	10.04
$	35 1,2-Dichloroethane-d4	65	5.096	5.093	(1.059)	1656	50.0000	1.13(T)
*	36 1,4-Difluorobenzene	114	5.550	5.550	(1.000)	438860	50.0000	
	37 Benzene	78	5.141	5.134	(0.926)	1569	0.25000	0.15(Ta)
	42 1,2-Dichloropropane	63	5.550	6.007	(1.000)	86620	0.25000	31.77
*	47 Chlorobenzene-d5	117	8.182	8.185	(1.000)	397688	50.0000	
$	48 Toluene-d8	98	6.922	6.918	(0.846)	8167	50.0000	1.27(a)
	49 Ethyl Methacrylate	69	7.293	7.289	(1.314)	704	0.25000	0.20(a)
	50 Toluene	91	6.982	6.978	(0.853)	3174	0.25000	0.29(a)
	52 2-Hexanone	43	7.222	7.589	(0.883)	1373	0.50000	2.46(Ta)
	58 1-Chlorohexane	55	8.182	8.196	(1.474)	3664	0.25000	1.00(a)
	61 Ethylbenzene	106	8.305	8.305	(1.015)	1485	0.25000	0.43(a)
	62 m,p-Xylenes	106	8.410	8.406	(1.028)	9262	0.50000	1.33(a)

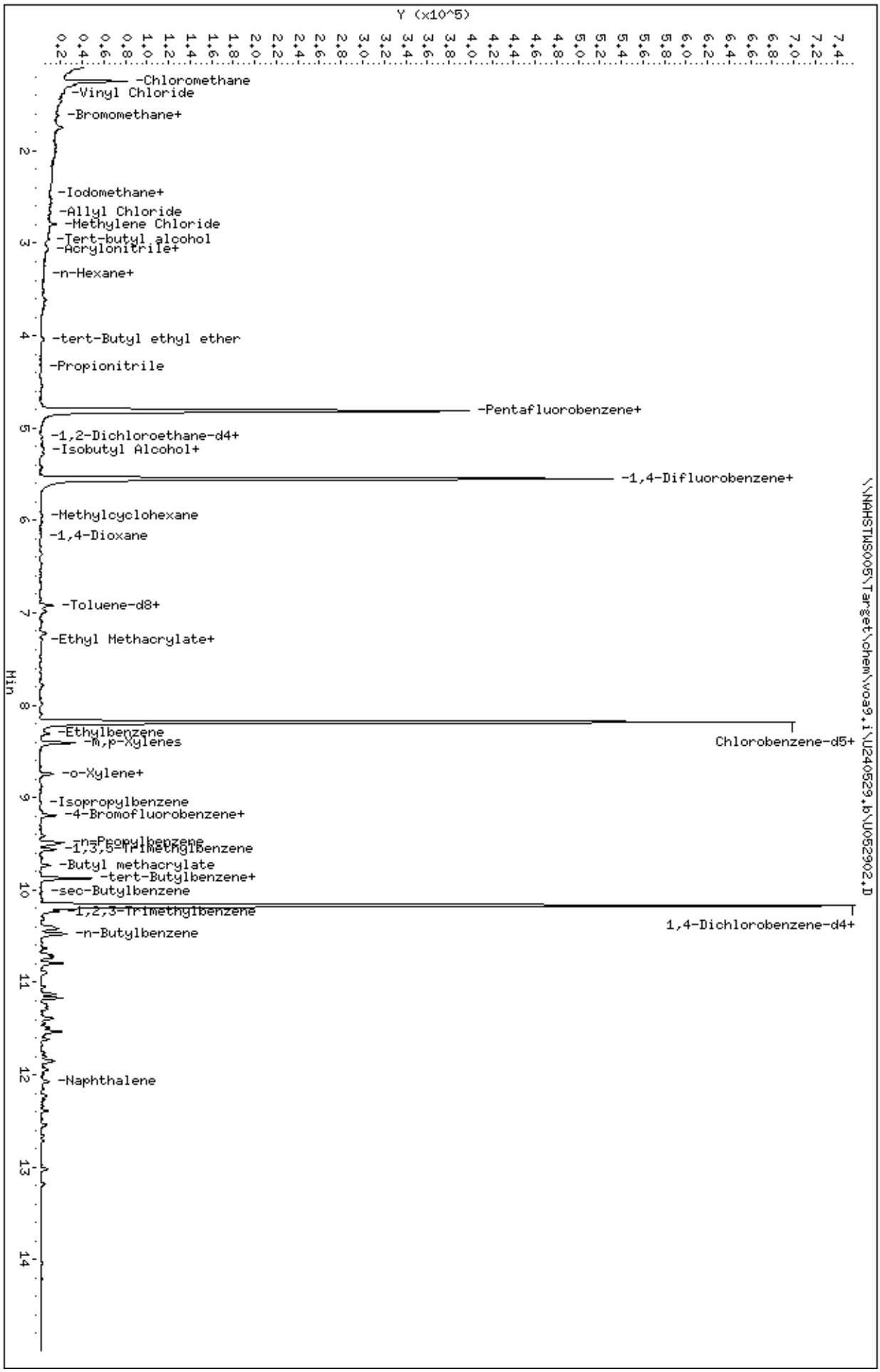
63 o-Xylene	106	8.748	8.744 (1.069)	2937	0.25000	1.50(a)
67 Isopropylbenzene	105	9.063	9.059 (1.108)	1050	0.25000	0.11(a)

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052902.D Page 2
Report Date: 07-Jun-2024 10:54

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
$ 69 4-Bromofluorobenzene	95	9.194	9.190	(1.124)	4388	50.0000	1.49(a)
* 70 1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	205109	50.0000	
71 1,2,3-Trichloropropane	75	9.194	9.362	(0.904)	1951	0.25000	0.61(a)
73 n-Propylbenzene	91	9.411	9.411	(0.926)	3314	0.25000	0.29(a)
75 1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	6919	0.25000	0.63(a)
78 tert-Butylbenzene	119	9.876	9.835	(0.971)	3306	0.25000	0.53(Ta)
79 1,2,4-Trimethylbenzene	105	9.876	9.876	(0.971)	25827	0.25000	1.62(a)
81 sec-Butylbenzene	105	10.022	10.022	(0.986)	1089	0.25000	0.12(a)
82 p-Isopropyltoluene	119	10.146	10.146	(0.998)	824	0.25000	0.11(a)
83 1,3-Dichlorobenzene	146	10.187	10.116	(1.002)	622	0.25000	0.13(a)
84 1,4-Dichlorobenzene	146	10.187	10.191	(1.002)	622	0.25000	0.11(a)
87 n-Butylbenzene	91	10.487	10.491	(1.031)	4447	0.25000	0.91(a)
88 1,2-Dichlorobenzene	146	10.187	10.502	(1.002)	622	0.25000	0.12(a)
92 Naphthalene	128	12.073	12.065	(1.187)	6014	0.25000	0.61(a)
141 Cyclohexane	56	4.812	4.778	(1.000)	6248	0.25000	0.98(a)
147 Methylcyclohexane	55	5.951	5.944	(1.072)	1332	0.25000	0.82(a)
136 n-Hexane	57	3.338	3.331	(0.694)	736	0.25000	0.98(Ta)
149 Isopropyl alcohol	45	2.559	2.570	(0.532)	1179	5.00000	(Ta)
166 1,2,3-Trimethylbenzene	105	10.232	10.232	(1.006)	7421	0.25000	1.76(a)
172 tert-Butyl formate	59	5.243	5.250	(1.090)	1385	0.50000	0.57(a)
174 tert-Amyl methyl ether	73	5.284	5.284	(1.098)	2132	0.25000	0.30(Ta)
175 tert-Butyl ethyl ether	59	4.047	4.047	(0.841)	2148	0.25000	0.31(a)
176 tert-Amyl alcohol	59	5.243	5.250	(1.090)	1385	5.00000	5.72
151 4-Methyl-2-pentanol	45	7.218	7.222	(1.301)	3155	5.00000	16.93
150 Allyl alcohol	57	3.338	3.331	(0.694)	736	5.00000	19.72

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\voa9.i\U240529.b\U052902.D
Date : 29-MAY-2024 10:39
Client ID: VSTD00.25
Sample Info: VSTD00.25;VSTD00.25;1;1
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9.i
Operator: FT
Column diameter: 0.18

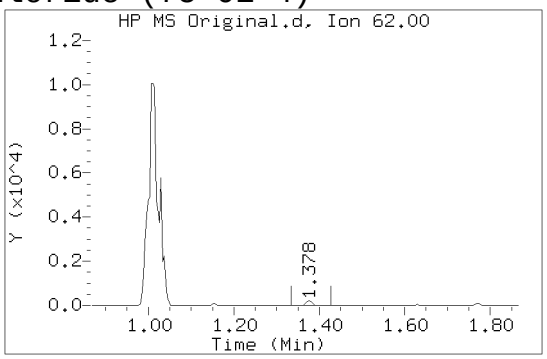
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Inj Date : 29-MAY-2024 10:39
InstruID : VOA9.i
LabSampID : VSTD00.25

Vinyl Chloride (75-01-4)

Reason Code:

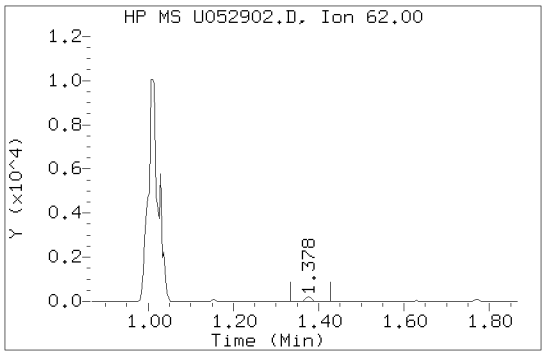
BEFORE

MASS
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AREA
194
HEIGHT
203
06-Jun-2024
17:10
s
zaid



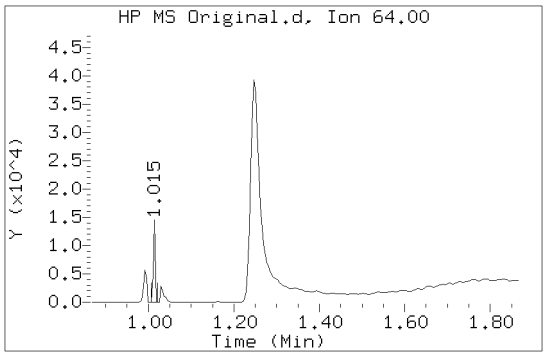
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MASS
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AREA
194
HEIGHT
203
07-Jun-2024
10:36



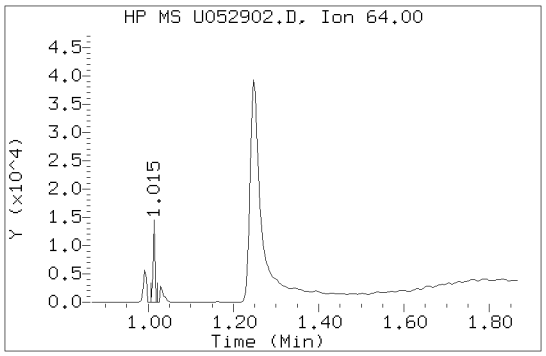
BEFORE

MASS
64
AREA
4340
HEIGHT
14499
06-Jun-2024
17:10
s
zaid



AFTER

MASS
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AREA
4340
HEIGHT
14499
07-Jun-2024
10:36

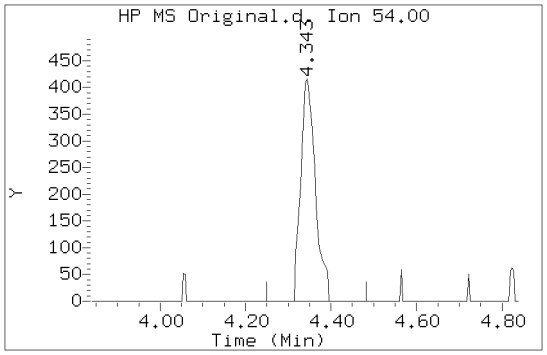


Propionitrile (107-12-0)

Reason Code:

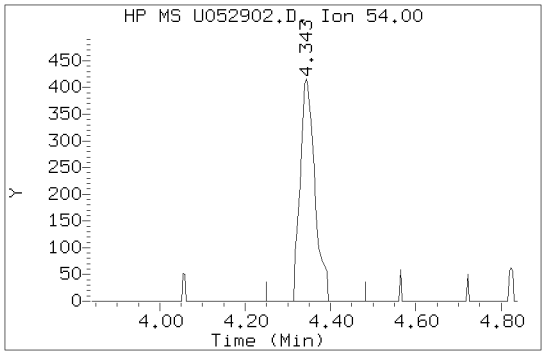
BEFORE

MASS
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AREA
1009
HEIGHT
416
06-Jun-2024
17:10
s
zaid



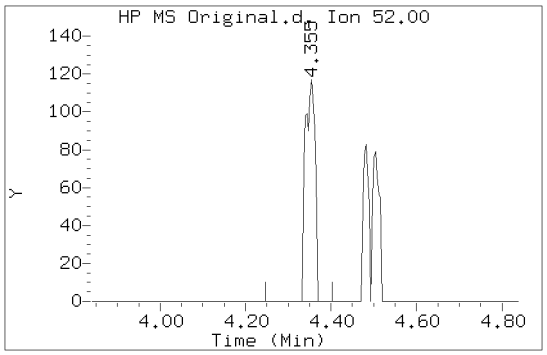
AFTER

MASS
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AREA
1009
HEIGHT
416
07-Jun-2024
10:36



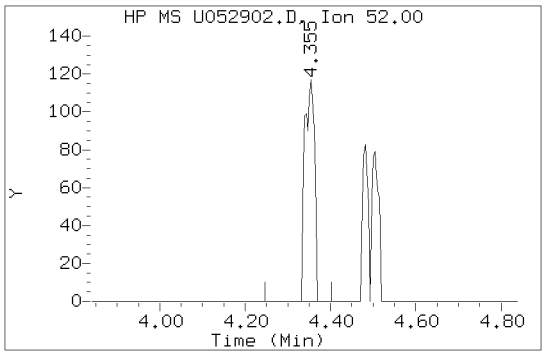
BEFORE

MASS
52
AREA
190
HEIGHT
117
06-Jun-2024
17:10
s
zaid



AFTER

MASS
52
AREA
190
HEIGHT
117
07-Jun-2024
10:36



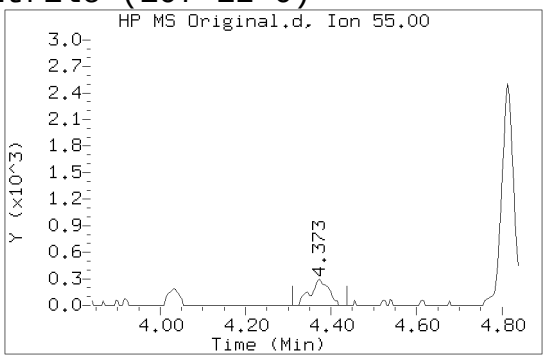
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LabSampID : VSTD00.25

Propionitrile (107-12-0)

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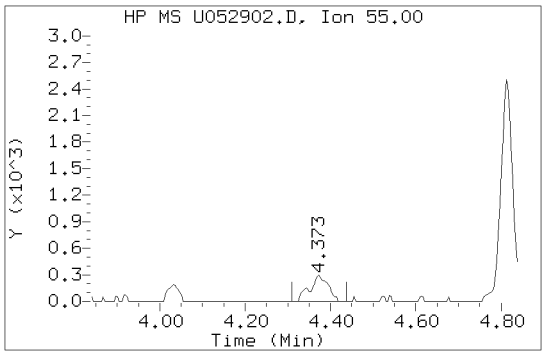
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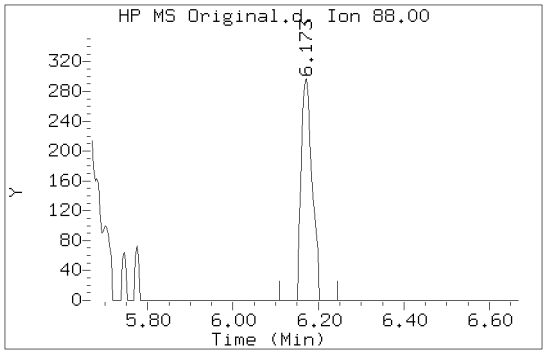


1,4-Dioxane ()

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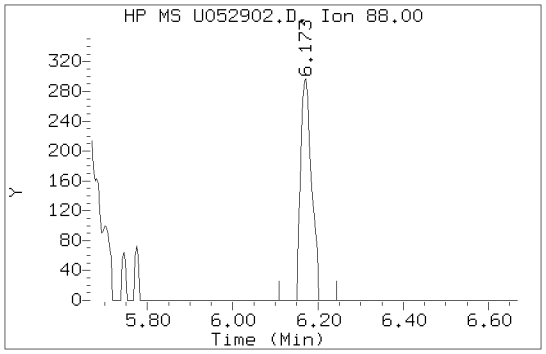
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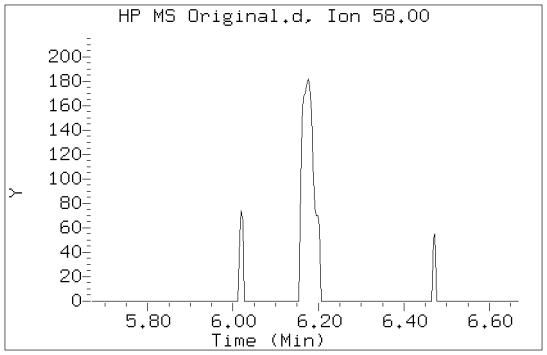
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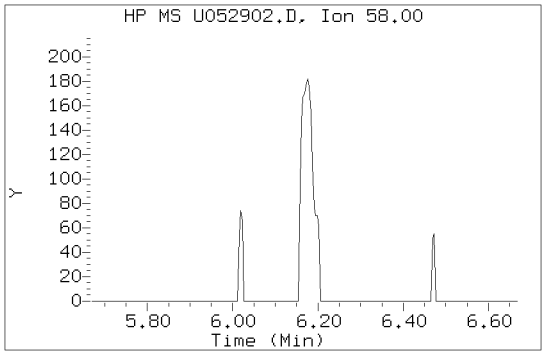
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AFTER

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07-Jun-2024
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Data File: \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052903.D Page 1
Report Date: 07-Jun-2024 10:54

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052903.D
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Inj Date : 29-MAY-2024 11:00
Operator : FT Inst ID: VOA9.i
Smp Info : VSTD00.5;VSTD00.5;1;2
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240529.b\8260C.m
Meth Date : 07-Jun-2024 10:14 r.patel Quant Type: ISTD
Cal Date : 29-MAY-2024 11:00 Cal File: U052903.D
Als bottle: 3 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14

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	4.812	4.811	(1.000)	298424	50.0000	
2	Dichlorodifluoromethane	85	1.157	1.156	(0.240)	397	0.50000	0.35(aM)
3	Chloromethane	50	1.288	1.288	(0.268)	6413	0.50000	0.90
4	Propionitrile	54	4.339	4.339	(0.902)	1595	5.00000	(aM)
5	Vinyl Chloride	62	1.370	1.366	(0.285)	950	0.50000	0.42(aM)
7	Chloroethane	64	1.689	1.681	(0.351)	1090	0.50000	0.39(aM)
8	Trichlorofluoromethane	101	1.884	1.884	(0.392)	927	0.50000	0.34(a)
9	Acrolein	56	2.251	2.259	(0.468)	367	1.00000	0.32(aM)
10	Acetone	43	2.401	2.405	(0.499)	2671	1.00000	1.19
11	1,1-Dichloroethene	96	2.326	2.322	(0.484)	872	0.50000	0.44(aM)
13	Acetonitrile	39	2.664	2.663	(0.554)	865	5.00000	3.57(a)
14	Allyl Chloride	41	2.664	2.667	(0.554)	2724	0.50000	0.23(a)
15	Iodomethane	142	2.457	2.457	(0.511)	772	1.00000	0.57(Ta)
19	Carbon Disulfide	76	2.510	2.510	(0.522)	5445	1.00000	0.98
20	trans-1,2-Dichloroethene	96	3.050	3.050	(0.634)	1106	0.50000	0.49(a)
21	Vinyl Acetate	43	4.343	4.339	(0.903)	1257	1.00000	0.95(aM)
22	1,1-Dichloroethane	63	3.503	3.507	(0.728)	2242	0.50000	0.52(T)
23	Chloroprene	53	3.601	3.601	(0.748)	1294	0.50000	0.41(a)
24	2-Butanone	43	4.272	4.260	(0.888)	1315	1.00000	0.98(aM)
25	Methacrylonitrile	41	4.497	4.489	(0.935)	638	0.50000	0.21(a)
26	2,2-Dichloropropane	77	4.174	4.174	(0.868)	1275	0.50000	0.45(aM)

27 cis-1,2-Dichloroethene	96	4.189	4.189 (0.871)	1451	0.50000	0.52
28 Chloroform	83	4.568	4.568 (0.949)	2142	0.50000	0.50

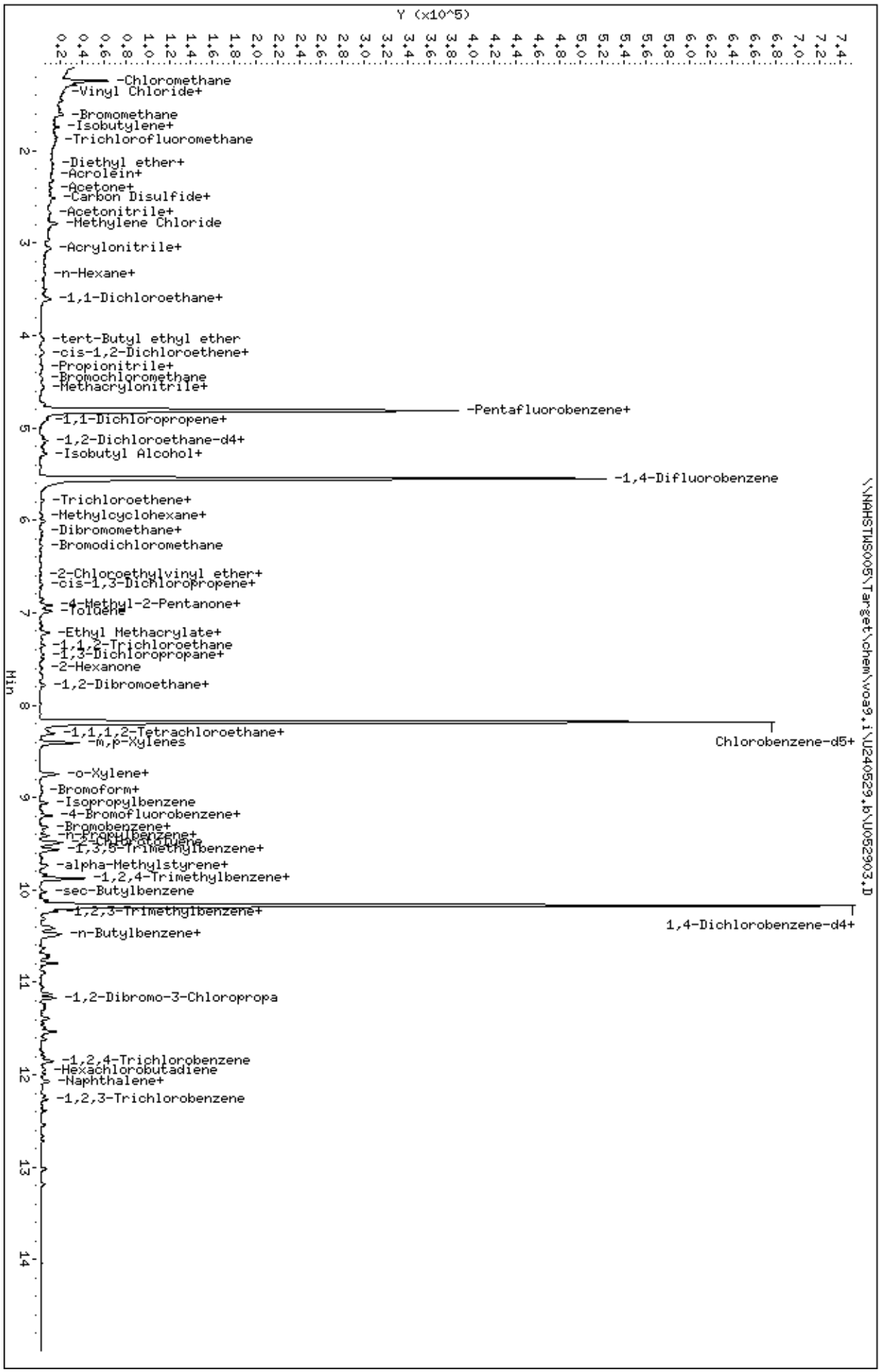
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	29 Bromochloromethane	128	4.459	4.463	(0.927)	704	0.50000	0.82
$	30 Dibromofluoromethane	113	4.748	4.744	(0.987)	1637	0.50000	0.34(a)
	31 1,1,1-Trichloroethane	97	4.733	4.736	(0.984)	1256	0.50000	0.42(a)
	32 1,1-Dichloropropene	75	4.920	4.916	(0.887)	1686	0.50000	0.53
	33 1,2-Dichloroethane	62	5.175	5.171	(0.932)	1765	0.50000	1.14(M)
	34 Carbon Tetrachloride	117	4.902	4.905	(0.883)	1246	0.50000	0.50(M)
$	35 1,2-Dichloroethane-d4	65	5.096	5.093	(1.059)	2042	0.50000	1.31(T)
*	36 1,4-Difluorobenzene	114	5.550	5.550	(1.000)	433437	50.0000	
	37 Benzene	78	5.134	5.134	(0.925)	5858	0.50000	0.57
	38 Trichloroethene	130	5.786	5.786	(1.043)	1215	0.50000	0.48(a)
	39 Bromodichloromethane	83	6.277	6.277	(1.131)	1183	0.50000	0.43(aM)
	40 Methyl Methacrylate	41	5.835	5.827	(1.213)	511	0.50000	0.82(aM)
	41 2-Chloroethylvinyl ether	63	6.577	6.573	(1.185)	505	1.00000	3.82(M)
	42 1,2-Dichloropropane	63	6.007	6.007	(1.082)	1503	0.50000	0.55(aM)
	43 2-Nitropropane	43	6.506	6.506	(1.352)	164	0.50000	2.10(aM)
	44 Dibromomethane	93	6.116	6.116	(1.102)	725	0.50000	0.46(a)
	45 4-Methyl-2-Pentanone	43	6.858	6.851	(0.838)	2006	1.00000	1.18(a)
	46 cis-1,3-Dichloropropene	75	6.690	6.690	(1.205)	1376	0.50000	1.21(aM)
*	47 Chlorobenzene-d5	117	8.182	8.185	(1.000)	385437	50.0000	
$	48 Toluene-d8	98	6.922	6.918	(0.846)	7327	0.50000	1.19(a)
	49 Ethyl Methacrylate	69	7.293	7.289	(1.314)	1331	0.50000	0.39(a)
	50 Toluene	91	6.978	6.978	(0.853)	6525	0.50000	0.62(a)
	51 trans-1,3-Dichloropropene	75	7.196	7.196	(1.296)	919	0.50000	1.43(aM)
	52 2-Hexanone	43	7.597	7.589	(0.929)	1203	1.00000	2.39(TaM)
	53 1,1,2-Trichloroethane	83	7.353	7.353	(0.899)	894	0.50000	0.10(a)
	54 1,3-Dichloropropane	76	7.499	7.499	(0.917)	2059	0.50000	0.48(a)
	55 Dibromochloromethane	129	7.691	7.690	(0.940)	788	0.50000	1.25(aM)
	56 Tetrachloroethene	164	7.458	7.454	(0.912)	866	0.50000	0.47(a)
	57 1,2-Dibromoethane	107	7.788	7.784	(0.952)	1079	0.50000	0.46(a)
	58 1-Chlorohexane	55	8.182	8.196	(1.474)	4455	0.50000	1.50(a)
	59 Chlorobenzene	112	8.208	8.208	(1.003)	3510	0.50000	0.52(a)
	60 1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	888	0.50000	0.41(a)
	61 Ethylbenzene	106	8.305	8.305	(1.015)	2343	0.50000	0.73(a)
	62 m,p-Xylenes	106	8.407	8.406	(1.027)	10673	1.00000	1.77(a)
	63 o-Xylene	106	8.744	8.744	(1.069)	3953	0.50000	1.78(a)
	64 Styrene	104	8.763	8.759	(1.071)	3009	0.50000	0.47(a)
	66 Bromoform	173	8.916	8.916	(1.090)	424	0.50000	1.80(aM)
	67 Isopropylbenzene	105	9.063	9.059	(1.108)	4312	0.50000	0.46(a)
	68 1,1,2,2-Tetrachloroethane	83	9.329	9.329	(0.917)	1594	0.50000	0.47(aM)
$	69 4-Bromofluorobenzene	95	9.194	9.190	(1.124)	3574	0.50000	1.23(a)
*	70 1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	201203	50.0000	
	71 1,2,3-Trichloropropane	75	9.362	9.362	(0.921)	1200	0.50000	0.38(aM)
	72 trans-1,4-Dichloro-2-butene	53	9.381	9.377	(1.147)	306	0.50000	0.46(aM)
	73 n-Propylbenzene	91	9.411	9.411	(0.926)	6391	0.50000	0.58(a)
	74 Bromobenzene	156	9.321	9.317	(0.917)	1370	0.50000	0.49(a)
	75 1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	8297	0.50000	0.84(a)
	76 2-Chlorotoluene	91	9.482	9.482	(0.933)	5091	0.50000	0.28(a)
	77 4-Chlorotoluene	91	9.576	9.576	(0.942)	4175	0.50000	0.53(a)
	78 tert-Butylbenzene	119	9.835	9.835	(0.967)	2791	0.50000	0.45(aM)
	79 1,2,4-Trimethylbenzene	105	9.876	9.876	(0.971)	22634	0.50000	1.24(a)
	81 sec-Butylbenzene	105	10.018	10.022	(0.985)	3943	0.50000	0.47(a)
	82 p-Isopropyltoluene	119	10.146	10.146	(0.998)	3411	0.50000	0.47(a)

83 1,3-Dichlorobenzene	146	10.116	10.116 (0.995)	2434	0.50000	0.52(aM)
84 1,4-Dichlorobenzene	146	10.187	10.191 (1.002)	2962	0.50000	0.57(a)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
86	Benzyl Chloride	91	10.311	10.311	(1.260)	2950	0.50000	2.12(aM)
87	n-Butylbenzene	91	10.491	10.491	(1.032)	6464	0.50000	1.24(a)
88	1,2-Dichlorobenzene	146	10.506	10.502	(1.033)	2607	0.50000	0.53(aM)
89	1,2-Dibromo-3-Chloropropane	155	11.166	11.165	(1.098)	128	0.50000	1.13(aM)
90	1,2,4-Trichlorobenzene	180	11.863	11.855	(1.167)	1430	0.50000	0.46(a)
91	Hexachlorobutadiene	225	11.998	11.998	(1.180)	668	0.50000	0.54(aM)
92	Naphthalene	128	12.073	12.065	(1.187)	7391	0.50000	0.82(a)
93	1,2,3-Trichlorobenzene	180	12.271	12.268	(1.207)	1338	0.50000	0.47(a)
146	Methyl acetate	43	2.705	2.708	(0.562)	1181	0.50000	0.75(aM)
138	Freon TF	101	2.315	2.326	(0.481)	683	0.50000	0.84(aM)
141	Cyclohexane	56	4.808	4.778	(0.999)	6283	0.50000	1.03(a)
147	Methylcyclohexane	55	5.951	5.944	(1.072)	1801	0.50000	0.91(a)
135	1,4-Dioxane	88	6.169	6.168	(1.282)	700	10.0000	6.75(aM)
132	n-Butanol	56	5.839	5.827	(1.213)	701	10.0000	8.71(aM)
136	n-Hexane	57	3.335	3.331	(0.693)	1203	0.50000	1.23(Ta)
149	Isopropyl alcohol	45	2.559	2.570	(0.532)	1852	10.0000	(a)
152	Amyl alcohol	42	7.413	7.398	(0.906)	468	10.0000	24.33(M)
156	Diisopropyl ether	45	3.616	3.619	(0.751)	3553	0.50000	0.46(aM)
162	Butyl acrylate	55	8.736	8.733	(1.068)	1363	0.50000	1.16(a)
164	Dicyclopentadiene	66	10.195	10.198	(1.003)	5765	0.50000	0.55(TaM)
166	1,2,3-Trimethylbenzene	105	10.232	10.232	(1.006)	6866	0.50000	1.70(a)
167	Ethanol	45	2.079	2.086	(0.432)	339	10.0000	(aM)
172	tert-Butyl formate	59	5.243	5.250	(1.090)	1972	1.00000	0.83(aM)
173	3,3-Dimethyl-1-butanol	57	7.781	7.784	(0.951)	2051	10.0000	7.64(M)
174	tert-Amyl methyl ether	73	5.280	5.284	(1.097)	3014	0.50000	0.43(Ta)
175	tert-Butyl ethyl ether	59	4.043	4.047	(0.840)	2826	0.50000	0.41(a)
176	tert-Amyl alcohol	59	5.243	5.250	(1.090)	1972	10.0000	8.26(M)
151	4-Methyl-2-pentanol	45	7.218	7.222	(1.301)	5007	10.0000	19.67
140	1,3-Butadiene	54	1.397	1.396	(0.290)	441	0.50000	0.39(aM)
182	Epichlorohydrin	57	6.630	6.630	(1.195)	323	2.00000	3.48(aM)
M 94	1,2-Dichloroethylene (total)	96				2557	1.00000	(a)
130	Ethyl Acetate	43	4.343	4.339	(0.903)	1284	0.50000	0.46(aM)
134	Cyclohexanone	55	9.153	9.152	(0.900)	969	10.0000	19.06(Ta)
185	Isoprene	39	2.142	2.146	(0.445)	81	0.50000	0.82(aM)
150	Allyl alcohol	57	3.335	3.331	(0.693)	1203	10.0000	24.62
194	Acetaldehyde	44	1.456	1.453	(0.303)	1640	2.00000	2.71(aM)
195	Methyl Amyl Ketone	43	8.871	8.868	(1.084)	1718	0.50000	0.36(aM)
200	Dimethyl Disulfide	94	6.746	6.746	(0.825)	248	0.50000	5.11(M)
133	Ethyl Acrylate	55	5.951	5.944	(1.237)	1801	0.50000	0.82(aM)
163	Butyl methacrylate	41	9.651	9.647	(0.949)	1219	0.50000	0.52(a)
159	Propylene oxide	43	2.195	2.191	(0.456)	651	1.00000	2.71(aM)
203	2-Ethylhexyl Acrylate	55	12.043	12.039	(1.184)	644	0.50000	1.61(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: VSTD00.5
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Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9.i
Operator: FT
Column diameter: 0.18

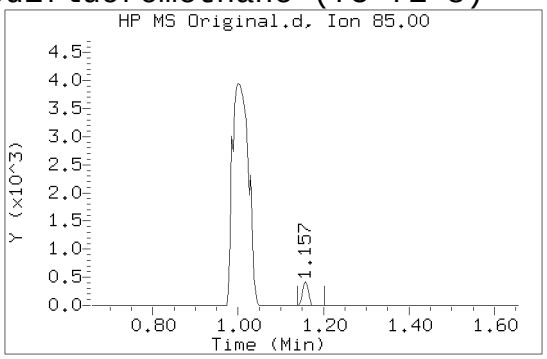
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InstruID : VOA9.i
LabSampID : VSTD00.5

Dichlorodifluoromethane (75-71-8)

Reason Code:

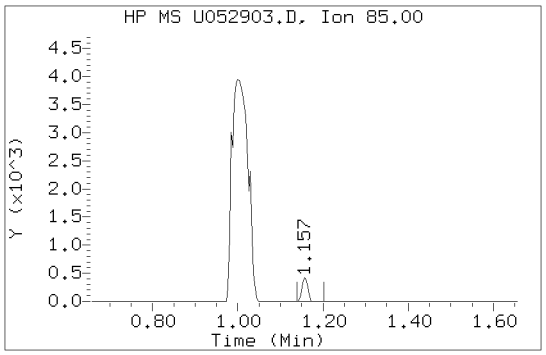
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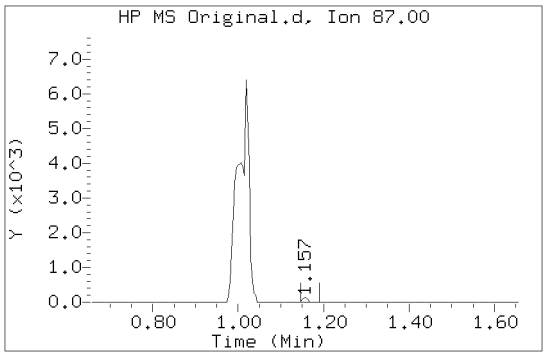
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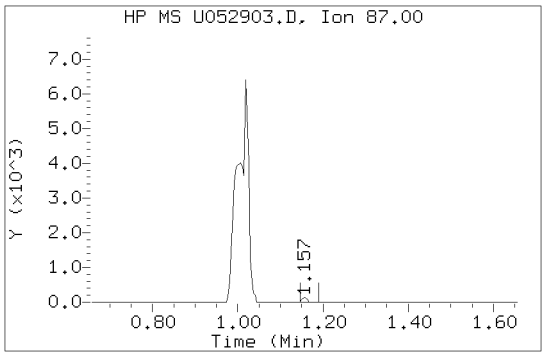
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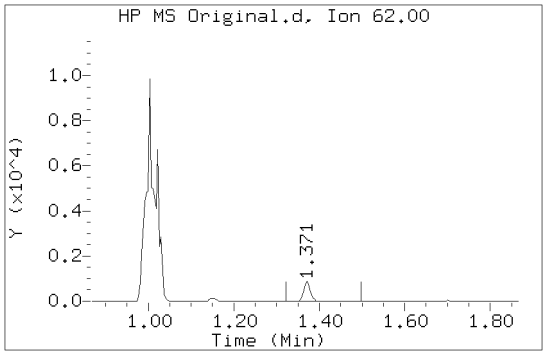


Vinyl Chloride (75-01-4)

Reason Code:

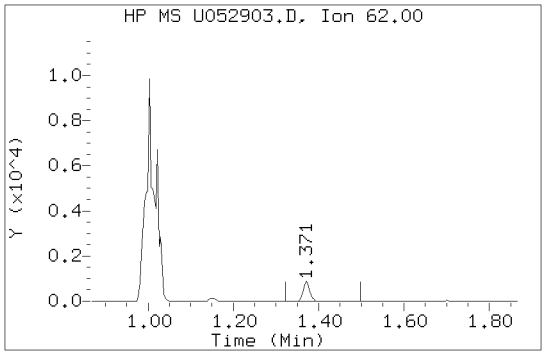
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zaid



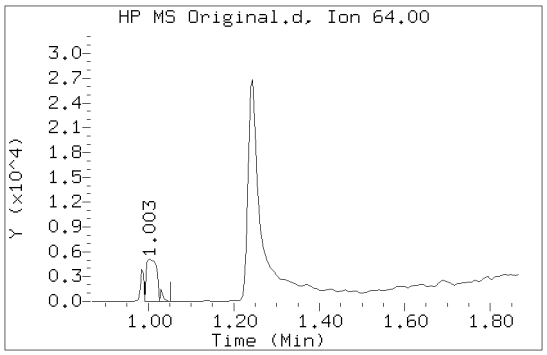
AFTER

MASS
62
AREA
950
HEIGHT
880
06-Jun-2024
17:10
s
zaid



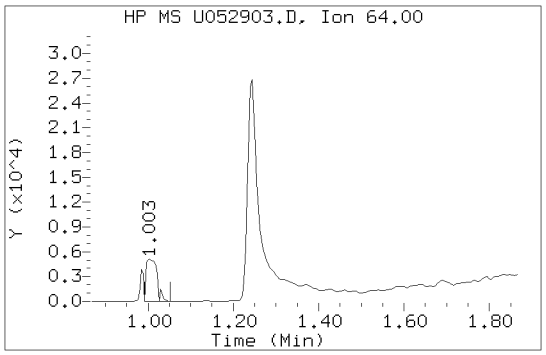
BEFORE

MASS
64
AREA
8932
HEIGHT
5099
06-Jun-2024
17:10
s
zaid



AFTER

MASS
64
AREA
8932
HEIGHT
5099
06-Jun-2024
17:10
s
zaid



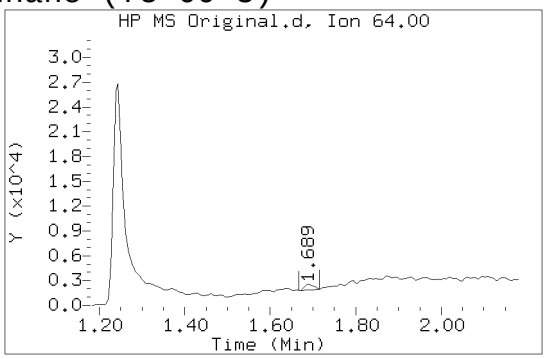
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052903.D
Inj Date : 29-MAY-2024 11:00
InstruID : VOA9.i
LabSampID : VSTD00.5

Chloroethane (75-00-3)

Reason Code:

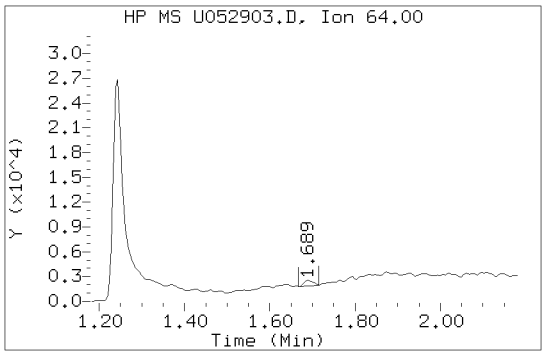
BEFORE

MASS
64
AREA
1090
HEIGHT
690
06-Jun-2024
17:10
s
zaid



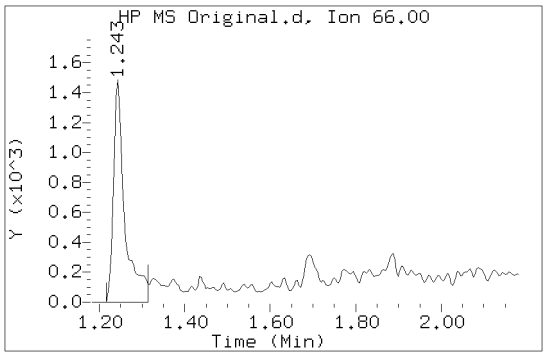
AFTER

MASS
64
AREA
1090
HEIGHT
690
06-Jun-2024
17:10
s
zaid



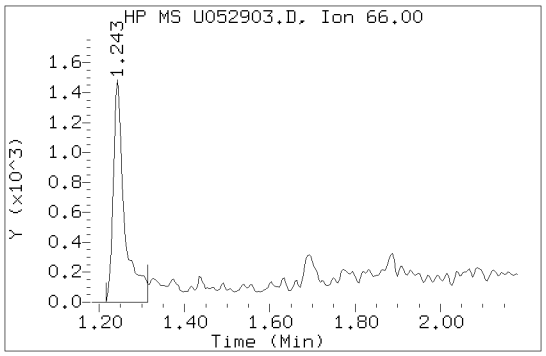
BEFORE

MASS
66
AREA
2749
HEIGHT
1485
06-Jun-2024
17:10
s
zaid



AFTER

MASS
66
AREA
2749
HEIGHT
1485
06-Jun-2024
17:10
s
zaid

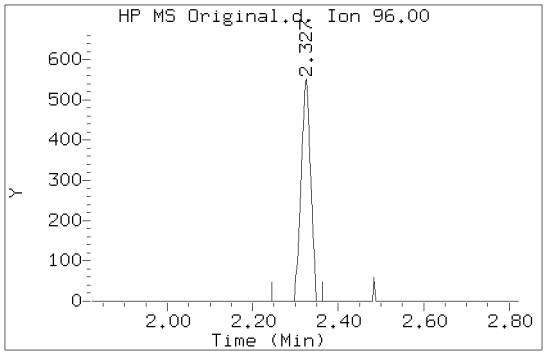


1,1-Dichloroethene (75-35-4)

Reason Code:

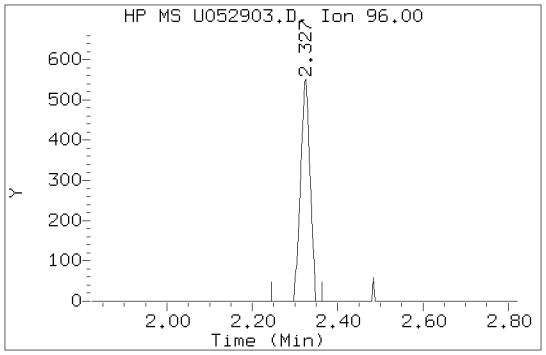
BEFORE

MASS
96
AREA
872
HEIGHT
552
06-Jun-2024
17:10
s
zaid



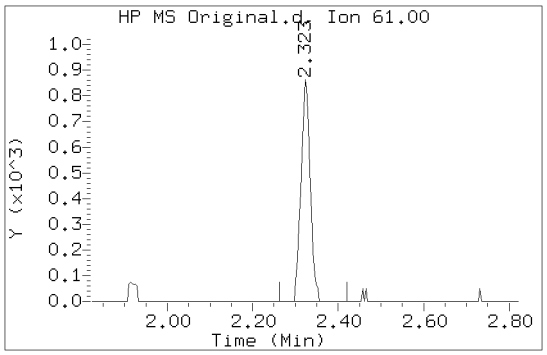
AFTER

MASS
96
AREA
872
HEIGHT
552
06-Jun-2024
17:10
s
zaid



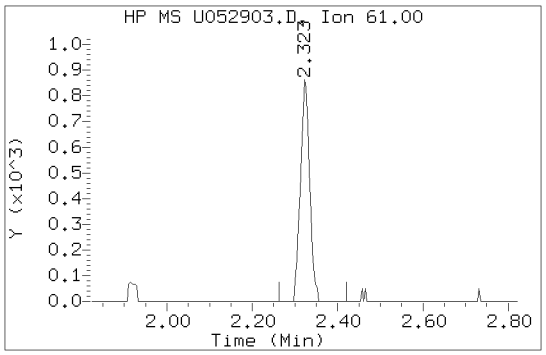
BEFORE

MASS
61
AREA
1335
HEIGHT
863
06-Jun-2024
17:10
s
zaid



AFTER

MASS
61
AREA
1335
HEIGHT
863
06-Jun-2024
17:10
s
zaid



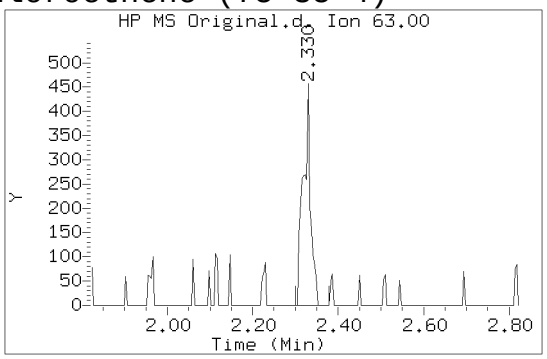
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052903.D
Inj Date : 29-MAY-2024 11:00
InstruID : VOA9.i
LabSampID : VSTD00.5

1,1-Dichloroethene (75-35-4)

Reason Code:

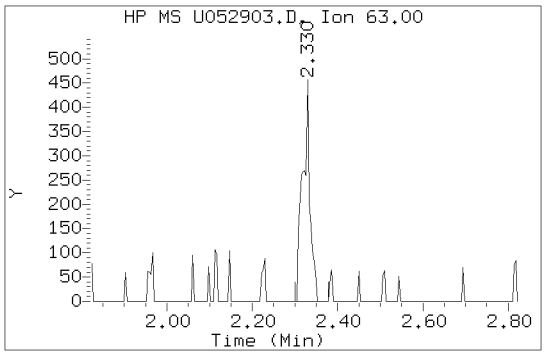
BEFORE

MASS
63
AREA
556
HEIGHT
457
06-Jun-2024
17:10
s
zaid



AFTER

MASS
63
AREA
556
HEIGHT
457
06-Jun-2024
17:10
s
zaid

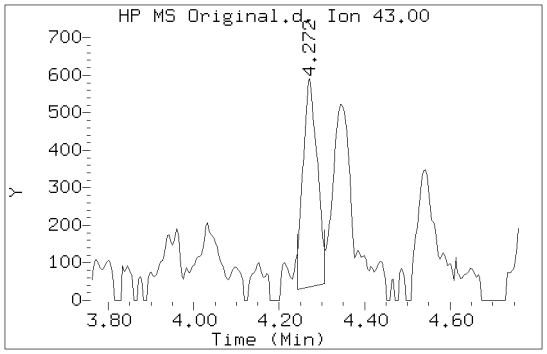


2-Butanone (78-93-3)

Reason Code:

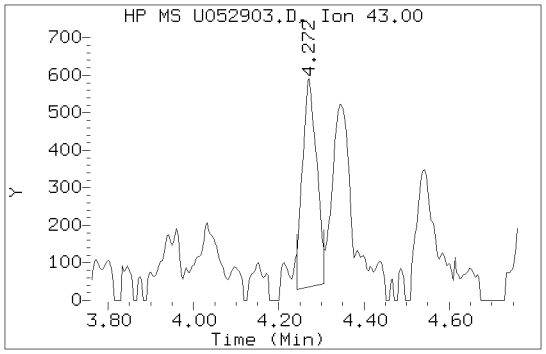
BEFORE

MASS
43
AREA
1315
HEIGHT
554
06-Jun-2024
17:10
s
zaid



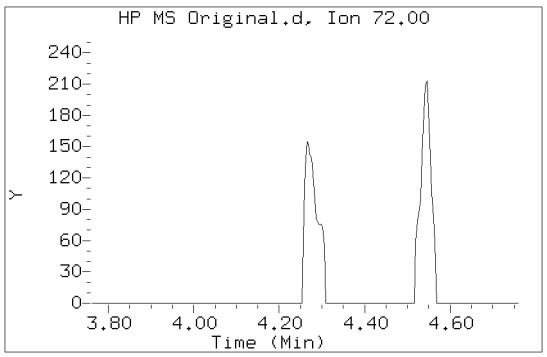
AFTER

MASS
43
AREA
1315
HEIGHT
554
06-Jun-2024
17:10
s
zaid



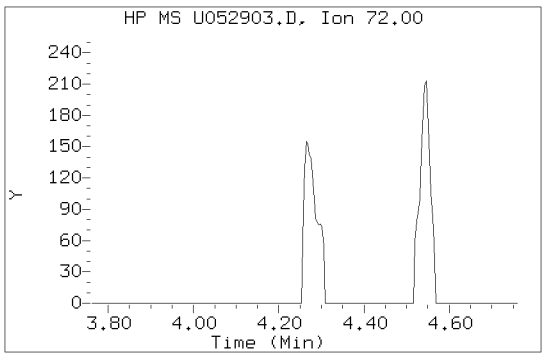
BEFORE

MASS
72
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



AFTER

MASS
72
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid

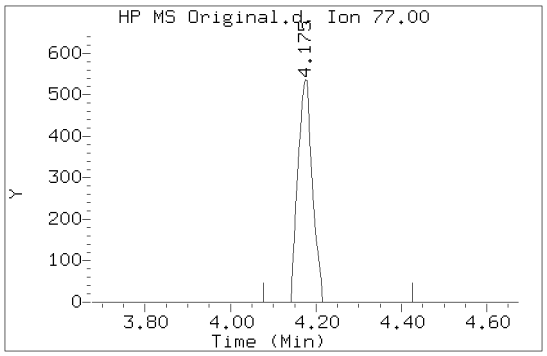


2,2-Dichloropropane (594-20-7)

Reason Code:

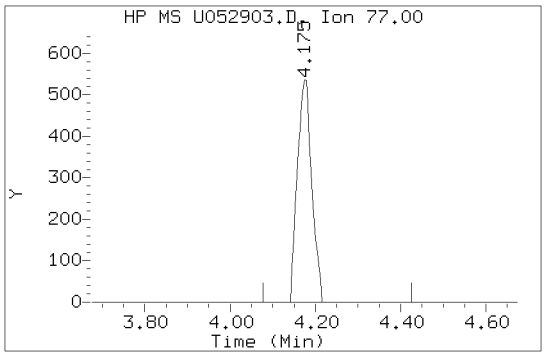
BEFORE

MASS
77
AREA
1275
HEIGHT
536
06-Jun-2024
17:10
s
zaid



AFTER

MASS
77
AREA
1275
HEIGHT
536
06-Jun-2024
17:10
s
zaid



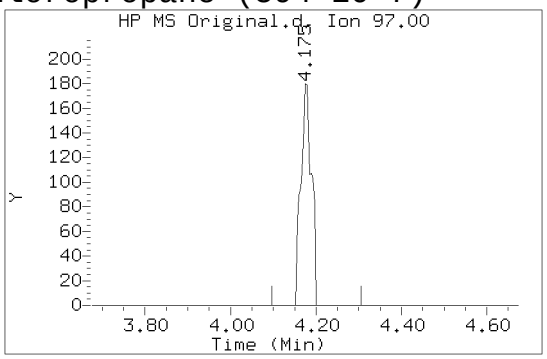
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052903.D
Inj Date : 29-MAY-2024 11:00
InstruID : VOA9.i
LabSampID : VSTD00.5

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

Reason Code:

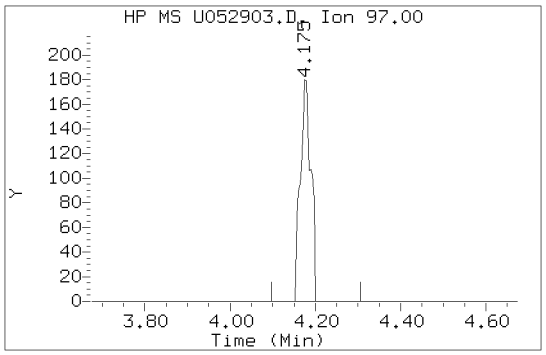
BEFORE

MASS
97
AREA
316
HEIGHT
180
06-Jun-2024
17:10
s
zaid



AFTER

MASS
97
AREA
316
HEIGHT
180
06-Jun-2024
17:10
s
zaid

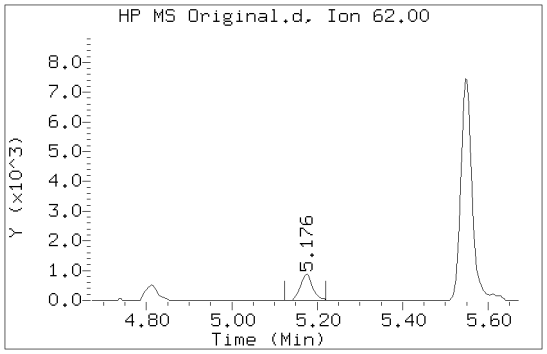


1,2-Dichloroethane (107-06-2)

Reason Code:

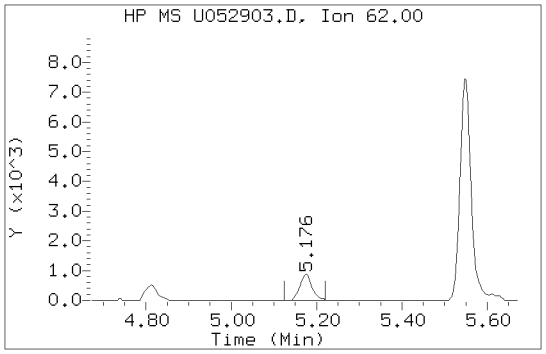
BEFORE

MASS
62
AREA
1765
HEIGHT
882
06-Jun-2024
17:10
s
zaid



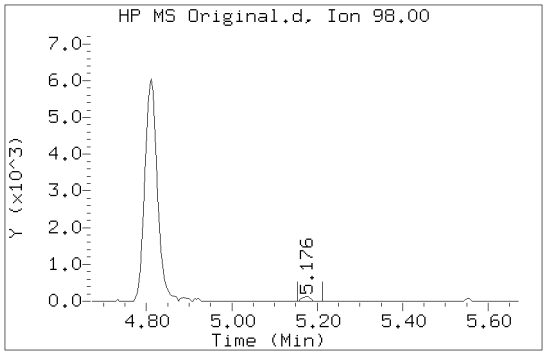
AFTER

MASS
62
AREA
1765
HEIGHT
882
06-Jun-2024
17:10
s
zaid



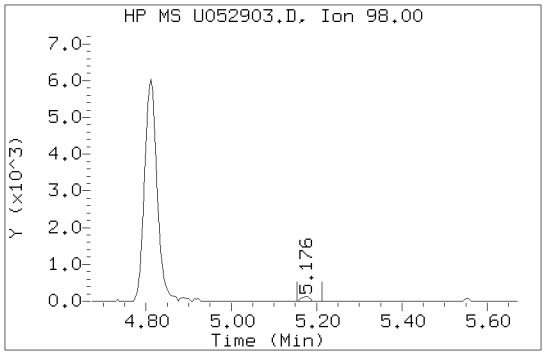
BEFORE

MASS
98
AREA
172
HEIGHT
121
06-Jun-2024
17:10
s
zaid



AFTER

MASS
98
AREA
172
HEIGHT
121
06-Jun-2024
17:10
s
zaid

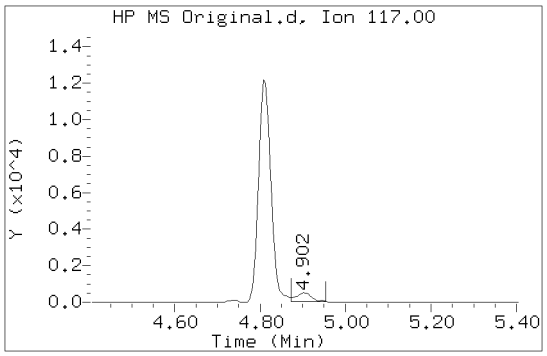


Carbon Tetrachloride (56-23-5)

Reason Code:

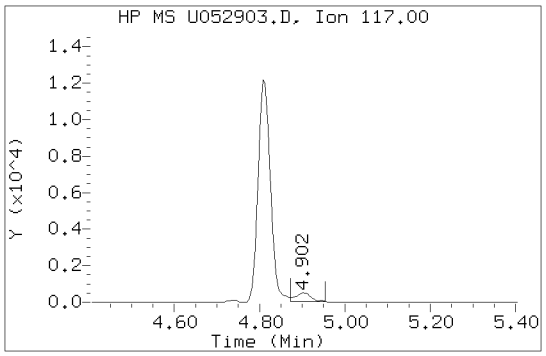
BEFORE

MASS
117
AREA
1246
HEIGHT
473
06-Jun-2024
17:10
s
zaid



AFTER

MASS
117
AREA
1246
HEIGHT
473
06-Jun-2024
17:10
s
zaid



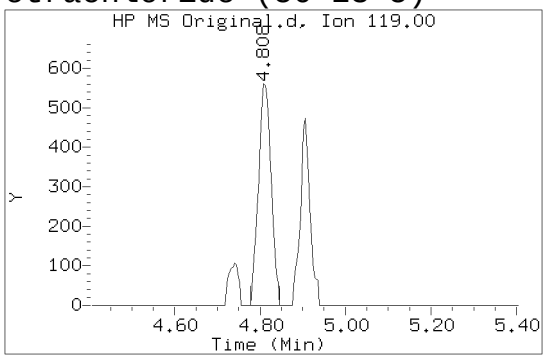
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052903.D
Inj Date : 29-MAY-2024 11:00
InstruID : VOA9.i
LabSampID : VSTD00.5

Carbon Tetrachloride (56-23-5)

Reason Code:

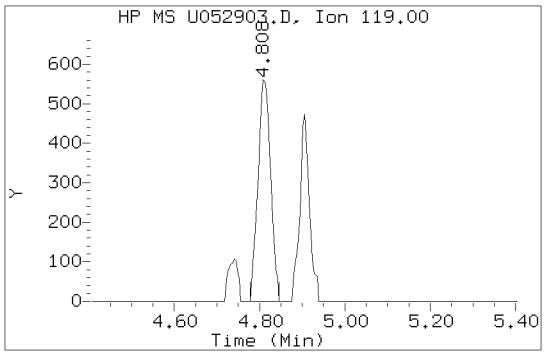
BEFORE

MASS
119
AREA
1158
HEIGHT
561
06-Jun-2024
17:10
s
zaid



AFTER

MASS
119
AREA
1158
HEIGHT
561
06-Jun-2024
17:10
s
zaid

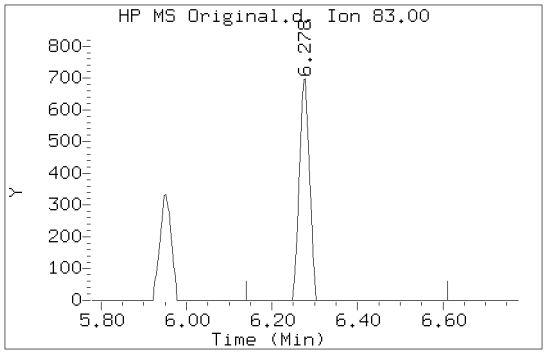


Bromodichloromethane (75-27-4)

Reason Code:

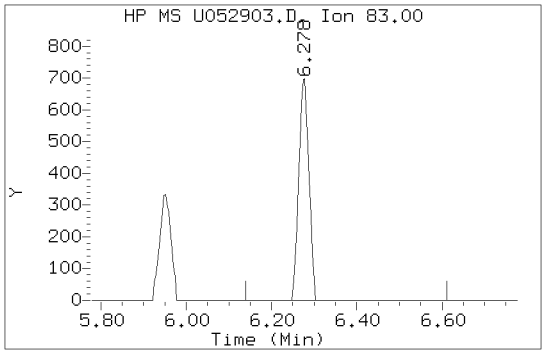
BEFORE

MASS
83
AREA
1183
HEIGHT
698
06-Jun-2024
17:10
s
zaid



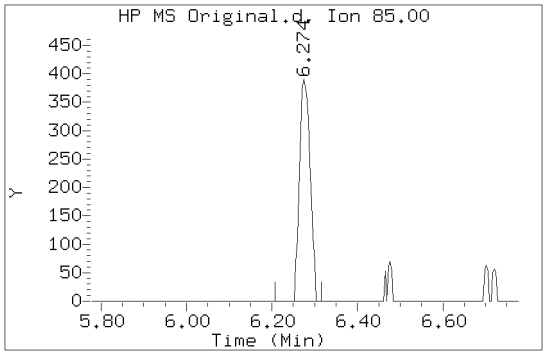
AFTER

MASS
83
AREA
1183
HEIGHT
698
06-Jun-2024
17:10
s
zaid



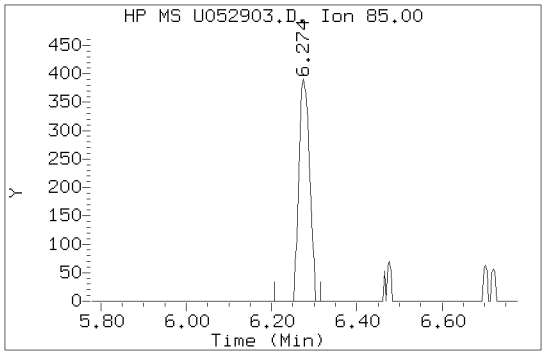
BEFORE

MASS
85
AREA
696
HEIGHT
391
06-Jun-2024
17:10
s
zaid



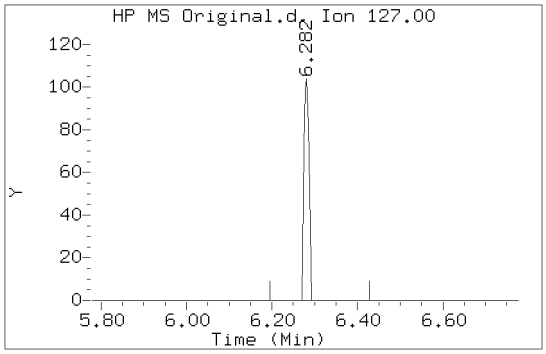
AFTER

MASS
85
AREA
696
HEIGHT
391
06-Jun-2024
17:10
s
zaid



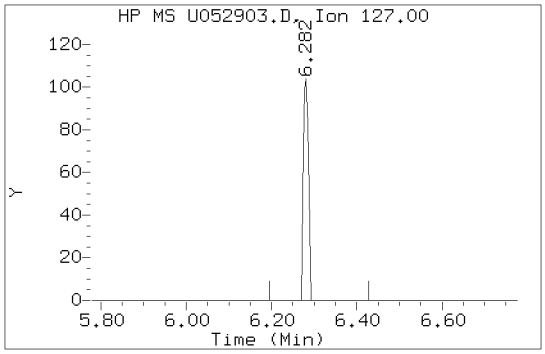
BEFORE

MASS
127
AREA
91
HEIGHT
104
06-Jun-2024
17:10
s
zaid



AFTER

MASS
127
AREA
91
HEIGHT
104
06-Jun-2024
17:10
s
zaid



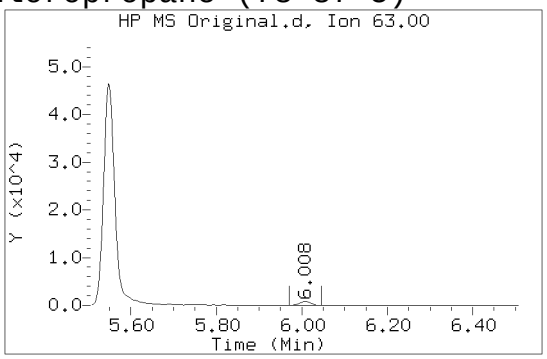
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052903.D
Inj Date : 29-MAY-2024 11:00
InstruID : VOA9.i
LabSampID : VSTD00.5

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

Reason Code:

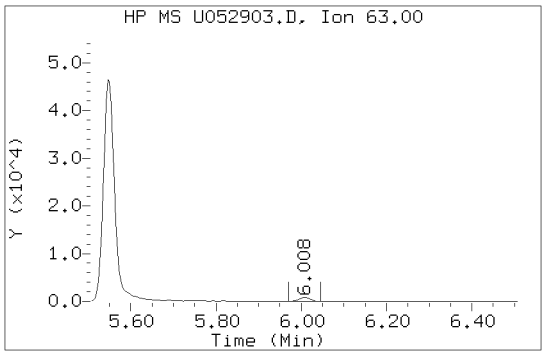
BEFORE

MASS
63
AREA
1503
HEIGHT
823
06-Jun-2024
17:10
s
zaid



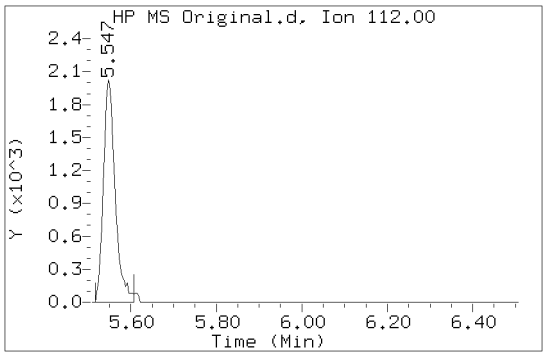
AFTER

MASS
63
AREA
1503
HEIGHT
823
06-Jun-2024
17:10
s
zaid



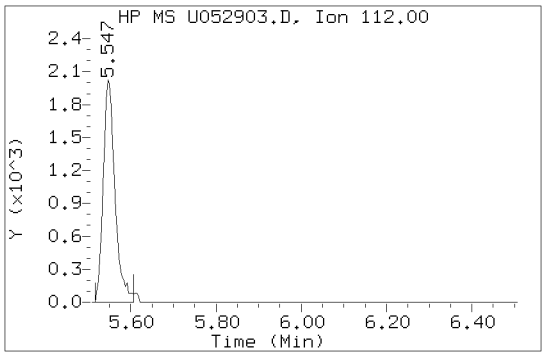
BEFORE

MASS
112
AREA
3881
HEIGHT
2025
06-Jun-2024
17:10
s
zaid



AFTER

MASS
112
AREA
3881
HEIGHT
2025
06-Jun-2024
17:10
s
zaid

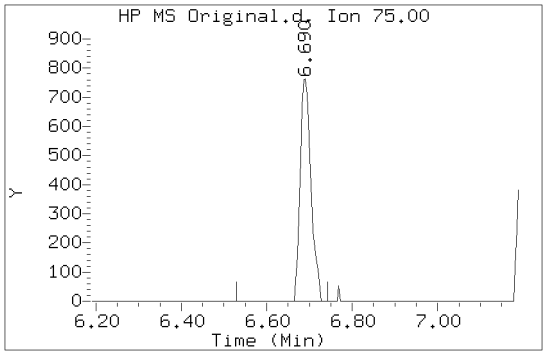


cis-1,3-Dichloropropene (10061-01-5)

Reason Code:

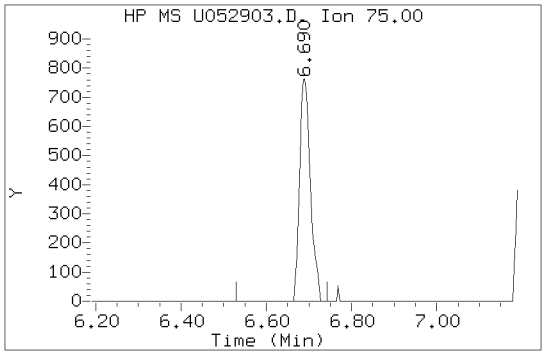
BEFORE

MASS
75
AREA
1376
HEIGHT
763
06-Jun-2024
17:10
s
zaid



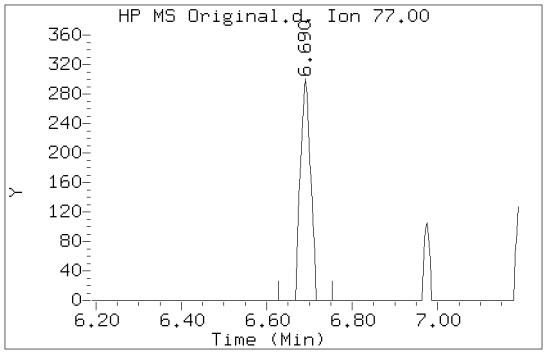
AFTER

MASS
75
AREA
1376
HEIGHT
763
06-Jun-2024
17:10
s
zaid



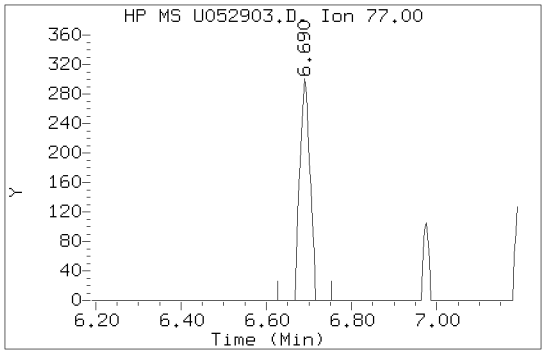
BEFORE

MASS
77
AREA
504
HEIGHT
301
06-Jun-2024
17:10
s
zaid



AFTER

MASS
77
AREA
504
HEIGHT
301
06-Jun-2024
17:10
s
zaid



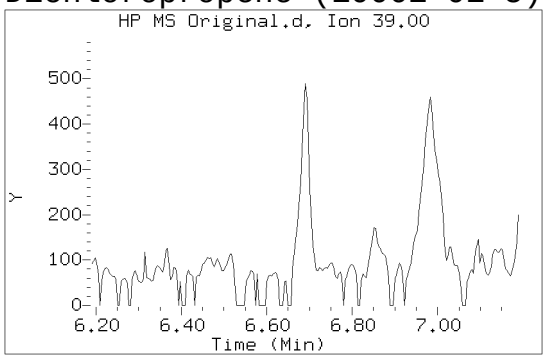
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052903.D
Inj Date : 29-MAY-2024 11:00
InstruID : VOA9.i
LabSampID : VSTD00.5

cis-1,3-Dichloropropene (10061-01-5)

Reason Code:

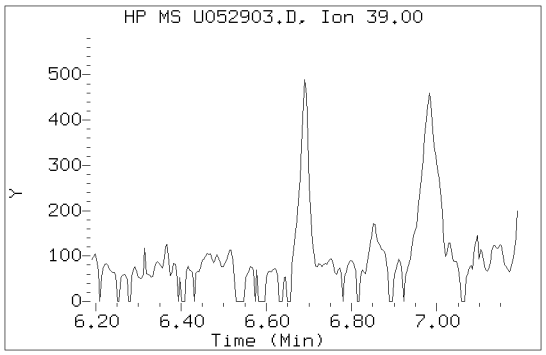
BEFORE

MASS
39
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



AFTER

MASS
39
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid

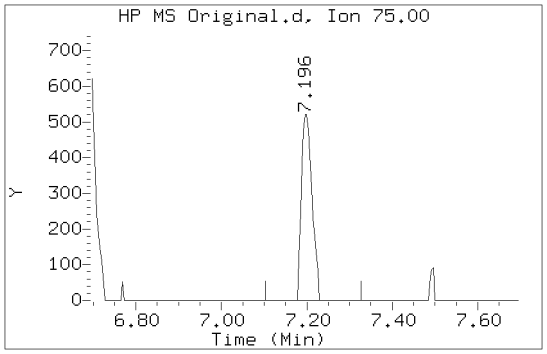


trans-1,3-Dichloropropene (10061-02-6)

Reason Code:

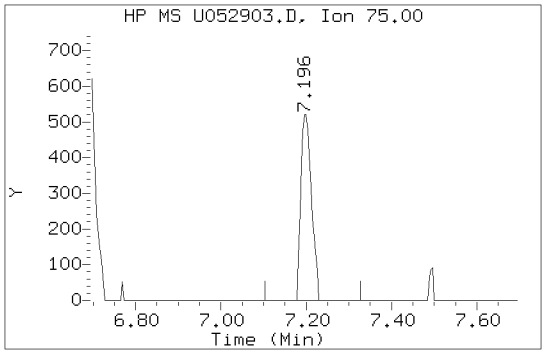
BEFORE

MASS
75
AREA
919
HEIGHT
520
06-Jun-2024
17:10
s
zaid



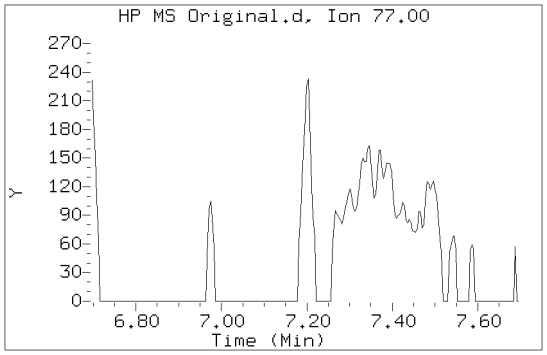
AFTER

MASS
75
AREA
919
HEIGHT
520
06-Jun-2024
17:10
s
zaid



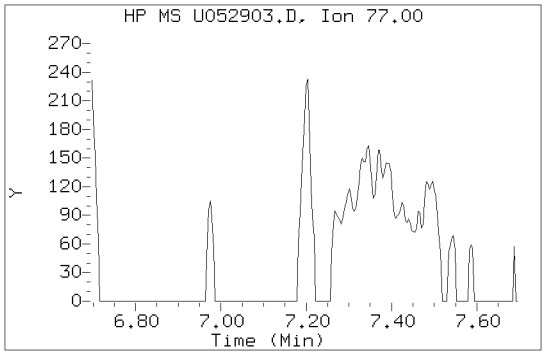
BEFORE

MASS
77
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



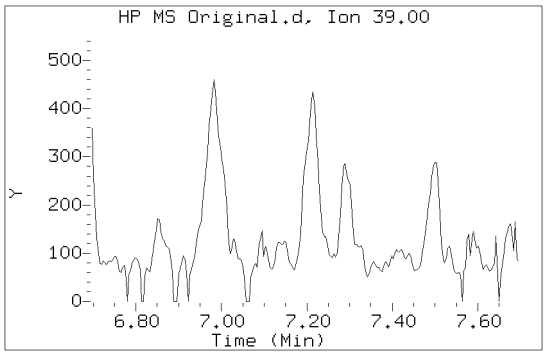
AFTER

MASS
77
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



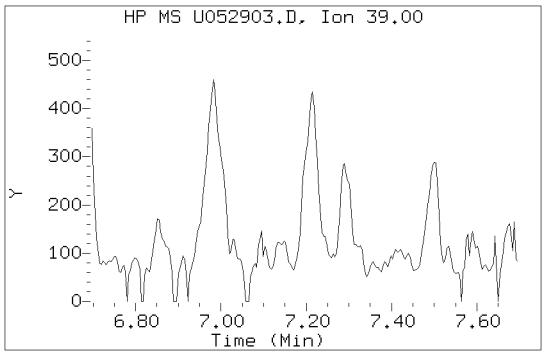
BEFORE

MASS
39
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



AFTER

MASS
39
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



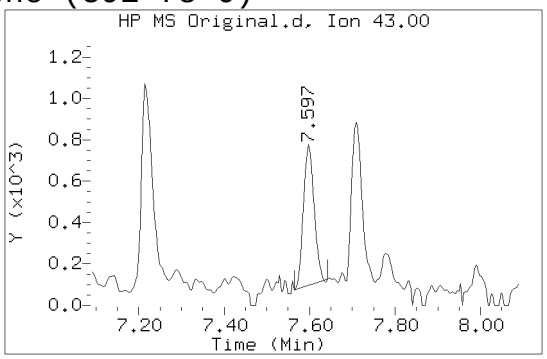
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052903.D
Inj Date : 29-MAY-2024 11:00
InstruID : VOA9.i
LabSampID : VSTD00.5

2-Hexanone (591-78-6)

Reason Code:

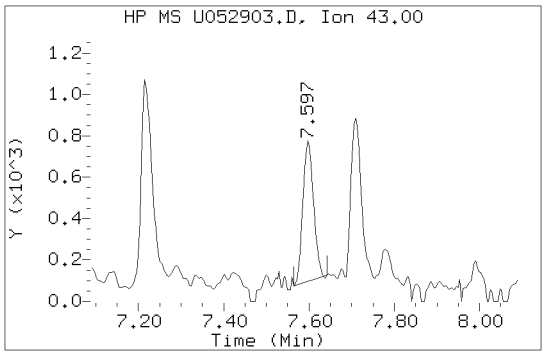
BEFORE

MASS
43
AREA
1203
HEIGHT
681
06-Jun-2024
17:10
s
zaid



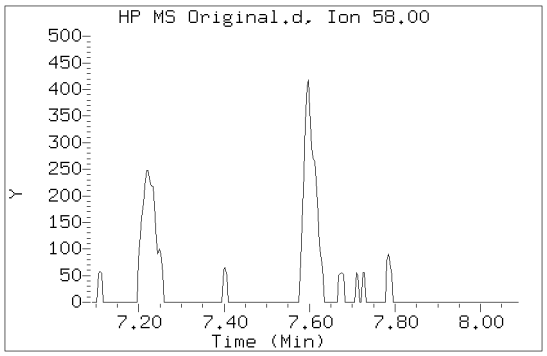
AFTER

MASS
43
AREA
1203
HEIGHT
681
06-Jun-2024
17:10
s
zaid



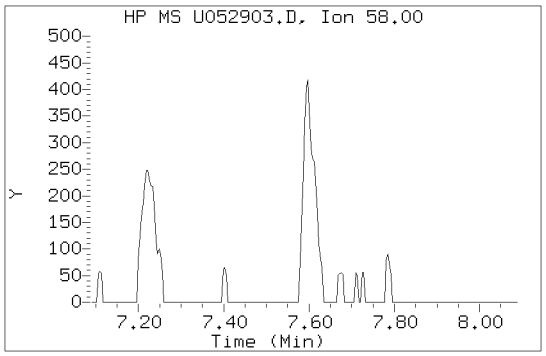
BEFORE

MASS
58
AREA
902
HEIGHT
512
06-Jun-2024
17:10
s
zaid



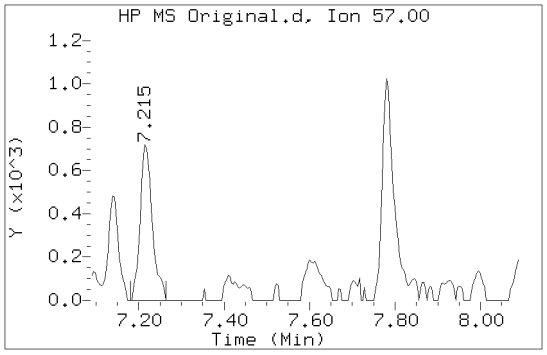
AFTER

MASS
58
AREA
902
HEIGHT
512
06-Jun-2024
17:10
s
zaid



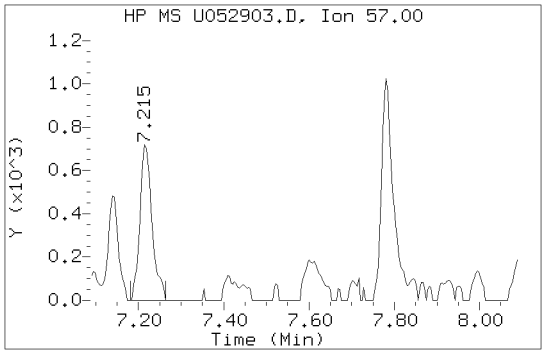
BEFORE

MASS
57
AREA
1422
HEIGHT
720
06-Jun-2024
17:10
s
zaid



AFTER

MASS
57
AREA
1422
HEIGHT
720
06-Jun-2024
17:10
s
zaid

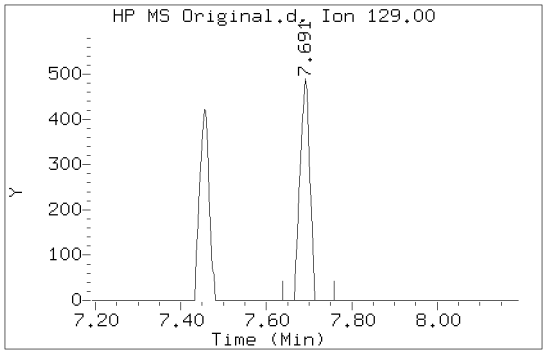


Dibromochloromethane (124-48-1)

Reason Code:

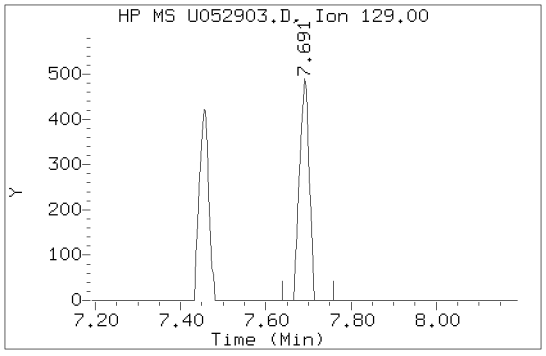
BEFORE

MASS
129
AREA
788
HEIGHT
490
06-Jun-2024
17:10
s
zaid



AFTER

MASS
129
AREA
788
HEIGHT
490
06-Jun-2024
17:10
s
zaid



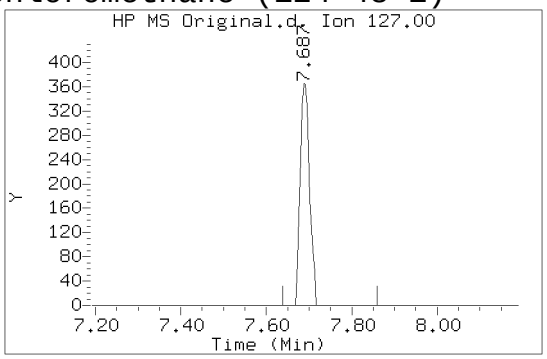
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052903.D
Inj Date : 29-MAY-2024 11:00
InstruID : VOA9.i
LabSampID : VSTD00.5

Dibromochloromethane (124-48-1)

Reason Code:

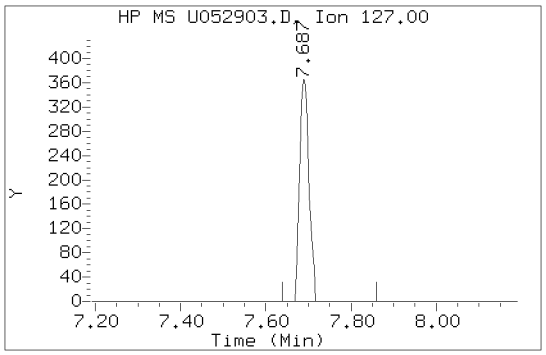
BEFORE

MASS
127
AREA
572
HEIGHT
365
06-Jun-2024
17:10
s
zaid



AFTER

MASS
127
AREA
572
HEIGHT
365
06-Jun-2024
17:10
s
zaid

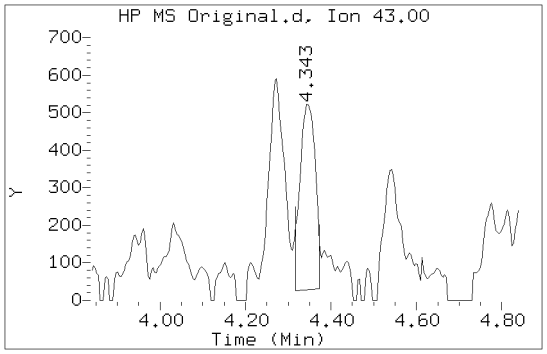


Vinyl Acetate (108-05-4)

Reason Code:

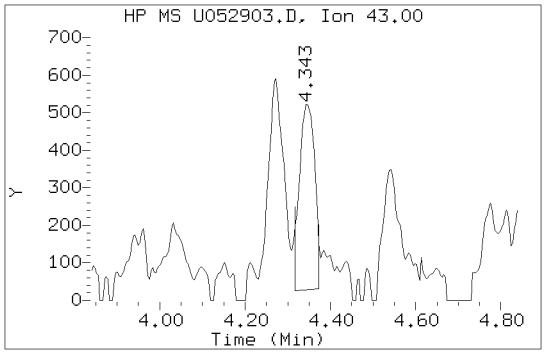
BEFORE

MASS
43
AREA
1257
HEIGHT
494
06-Jun-2024
17:10
s
zaid



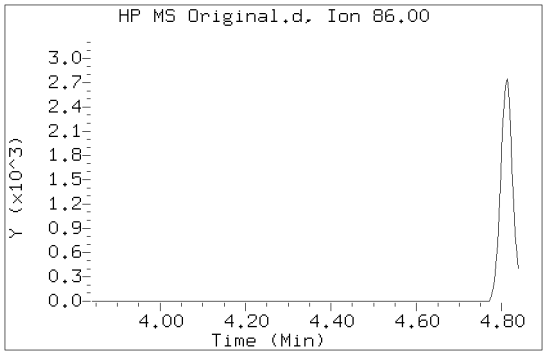
AFTER

MASS
43
AREA
1257
HEIGHT
494
06-Jun-2024
17:10
s
zaid



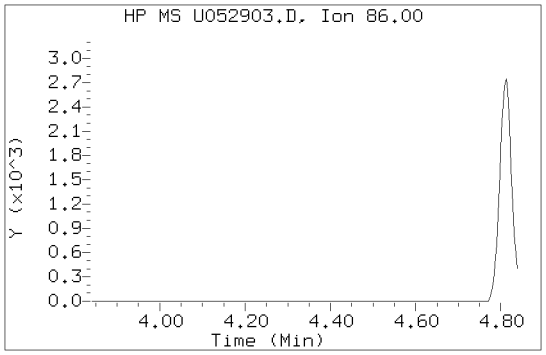
BEFORE

MASS
86
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



AFTER

MASS
86
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid

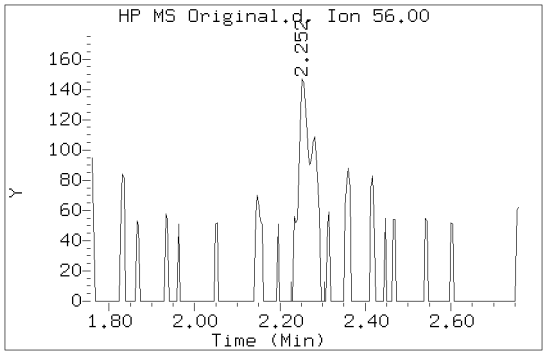


Acrolein (107-02-8)

Reason Code:

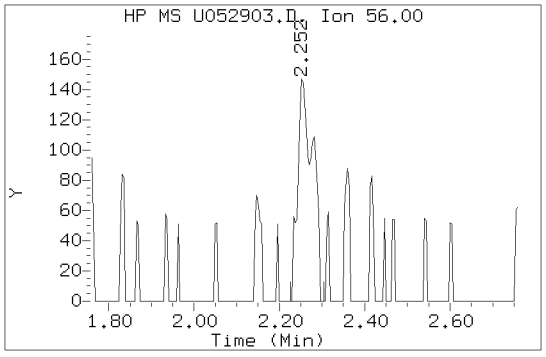
BEFORE

MASS
56
AREA
367
HEIGHT
147
06-Jun-2024
17:10
s
zaid



AFTER

MASS
56
AREA
367
HEIGHT
147
06-Jun-2024
17:10
s
zaid



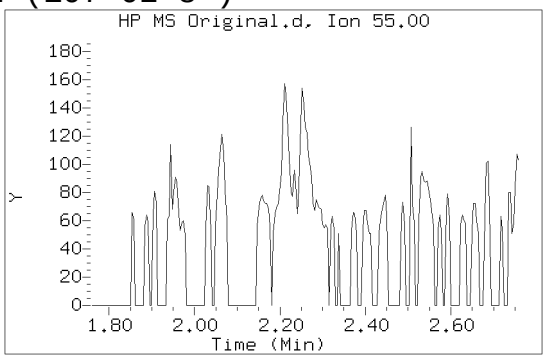
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052903.D
Inj Date : 29-MAY-2024 11:00
InstruID : VOA9.i
LabSampID : VSTD00.5

Acrolein (107-02-8)

Reason Code:

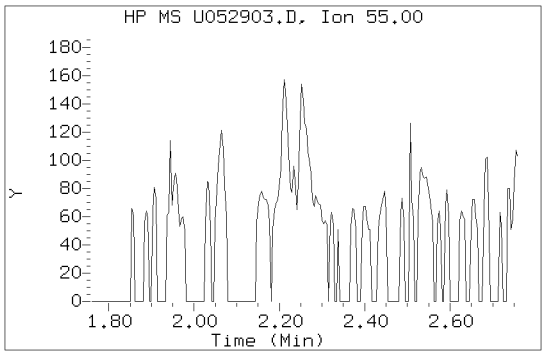
BEFORE

MASS
55
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



AFTER

MASS
55
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid

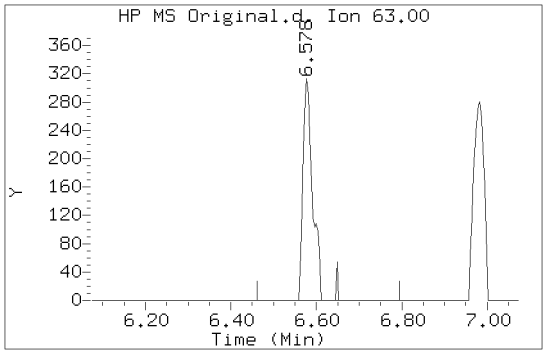


2-Chloroethylvinyl ether (110-75-8)

Reason Code:

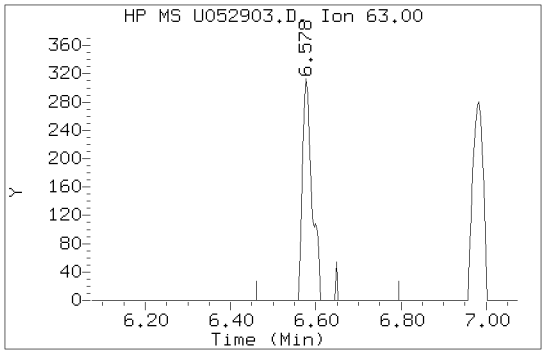
BEFORE

MASS
63
AREA
505
HEIGHT
313
06-Jun-2024
17:10
s
zaid



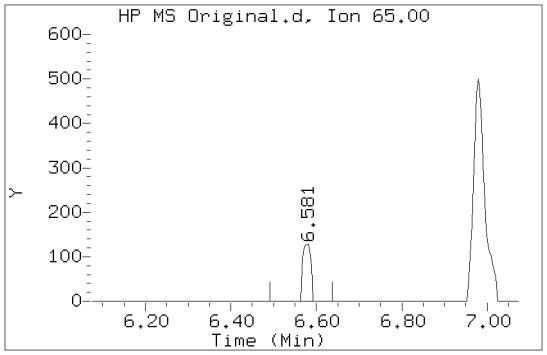
AFTER

MASS
63
AREA
505
HEIGHT
313
06-Jun-2024
17:10
s
zaid



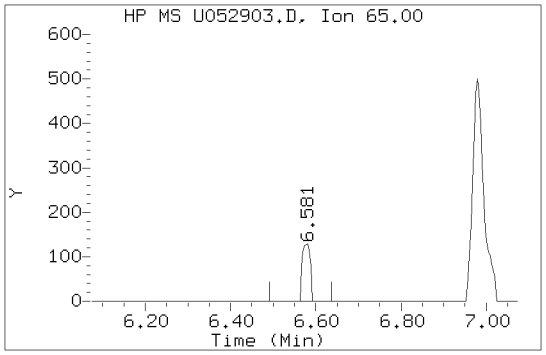
BEFORE

MASS
65
AREA
171
HEIGHT
128
06-Jun-2024
17:10
s
zaid



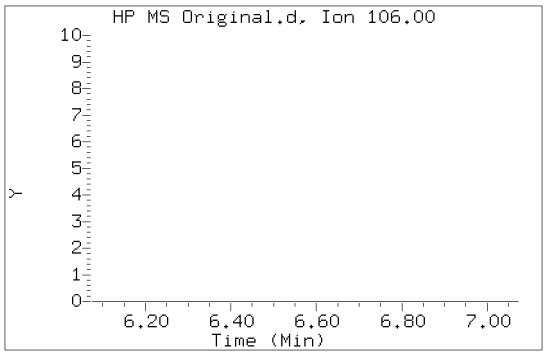
AFTER

MASS
65
AREA
171
HEIGHT
128
06-Jun-2024
17:10
s
zaid



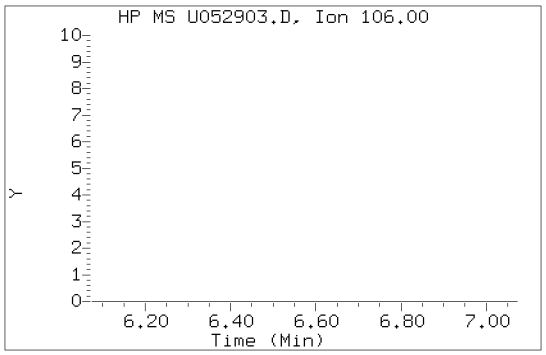
BEFORE

MASS
106
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



AFTER

MASS
106
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



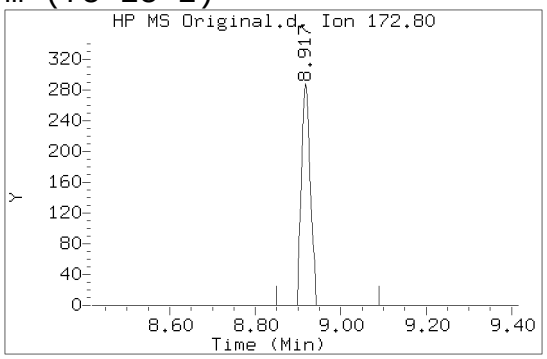
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052903.D
Inj Date : 29-MAY-2024 11:00
InstruID : VOA9.i
LabSampID : VSTD00.5

Bromoform (75-25-2)

Reason Code:

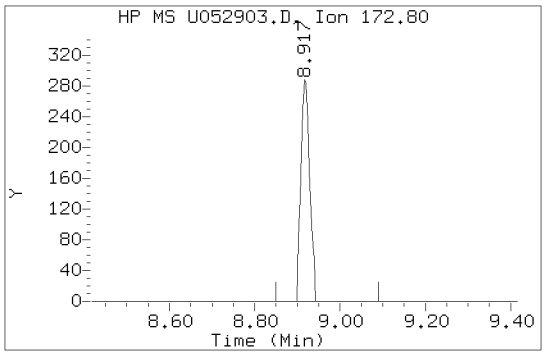
BEFORE

MASS
172.8
AREA
424
HEIGHT
288
06-Jun-2024
17:10
s
zaid



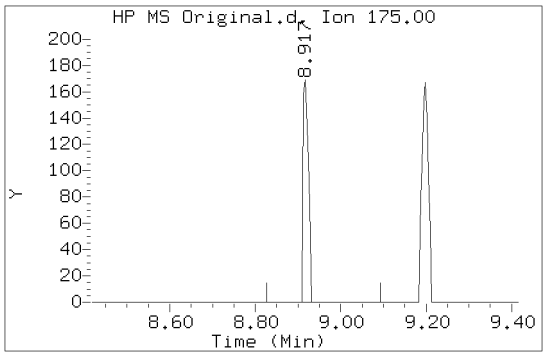
AFTER

MASS
172.8
AREA
424
HEIGHT
288
06-Jun-2024
17:10
s
zaid



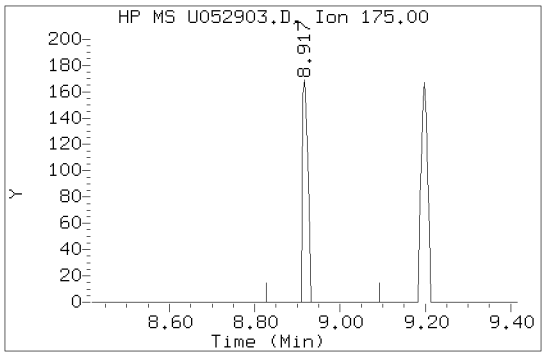
BEFORE

MASS
175
AREA
147
HEIGHT
169
06-Jun-2024
17:10
s
zaid



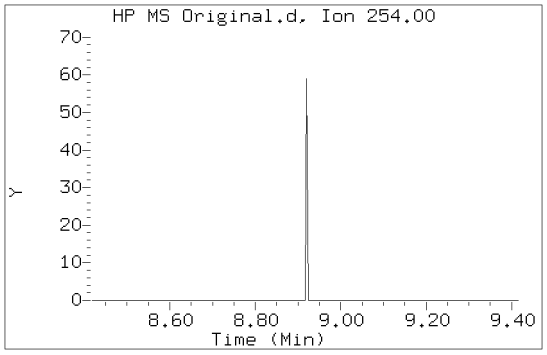
AFTER

MASS
175
AREA
147
HEIGHT
169
06-Jun-2024
17:10
s
zaid



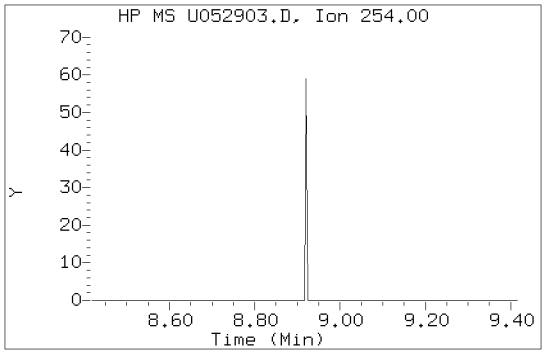
BEFORE

MASS
254
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



AFTER

MASS
254
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid

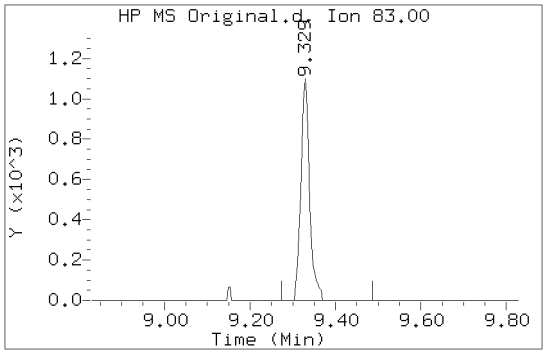


1,1,2,2-Tetrachloroethane (79-34-5)

Reason Code:

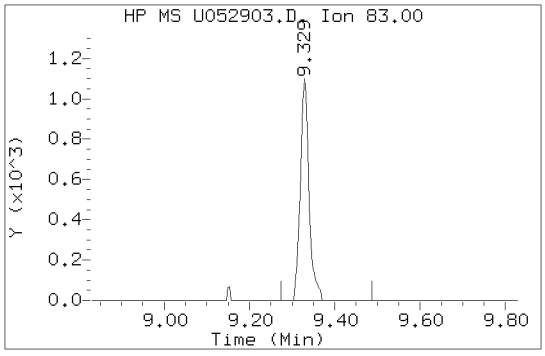
BEFORE

MASS
83
AREA
1594
HEIGHT
1100
06-Jun-2024
17:10
s
zaid



AFTER

MASS
83
AREA
1594
HEIGHT
1100
06-Jun-2024
17:10
s
zaid

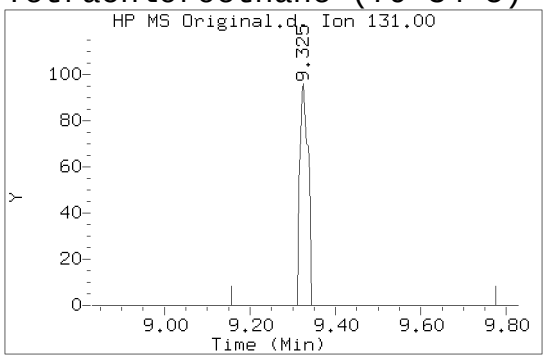


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Inj Date : 29-MAY-2024 11:00
InstruID : VOA9.i
LabSampID : VSTD00.5

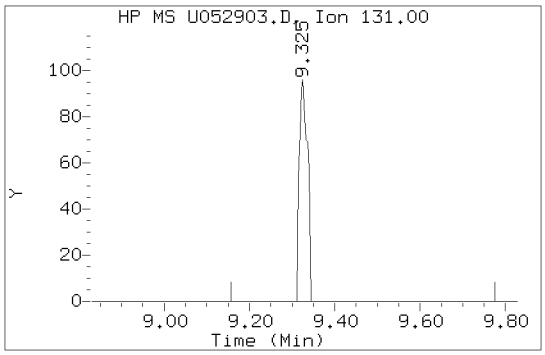
1,1,2,2-Tetrachloroethane (79-34-5)

Reason Code:

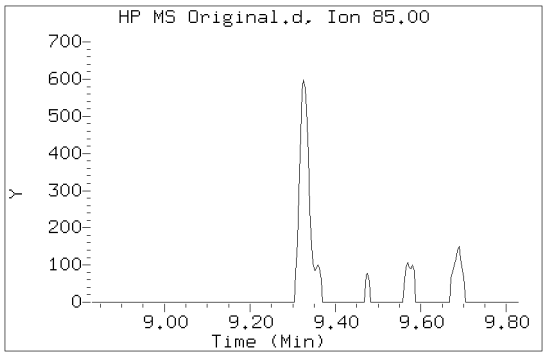
BEFORE
MASS
131
AREA
132
HEIGHT
96
06-Jun-2024
17:10
s
zaid



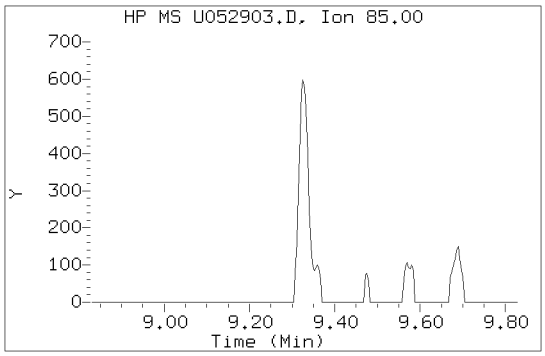
AFTER
MASS
131
AREA
132
HEIGHT
96
06-Jun-2024
17:10
s
zaid



BEFORE
MASS
85
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



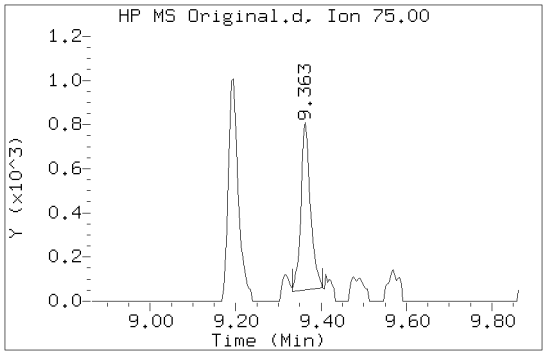
AFTER
MASS
85
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



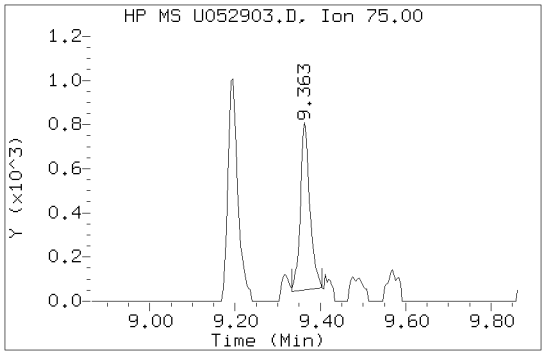
1,2,3-Trichloropropane (96-18-4)

Reason Code:

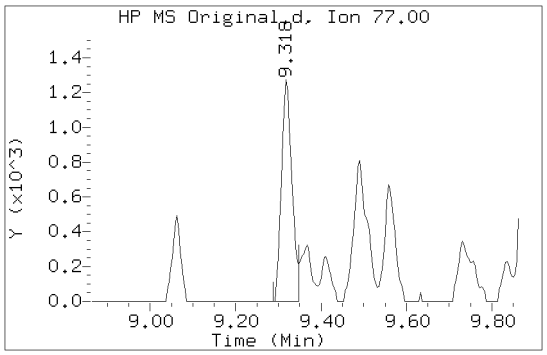
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MASS
75
AREA
1200
HEIGHT
758
06-Jun-2024
17:10
s
zaid



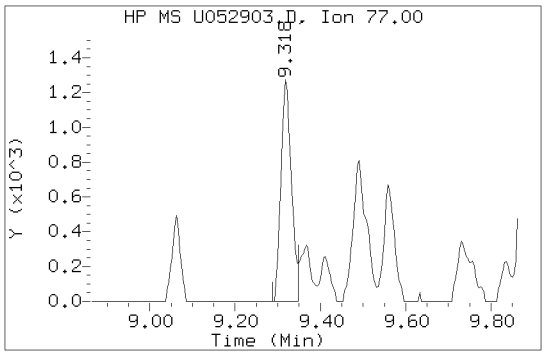
AFTER
MASS
75
AREA
1200
HEIGHT
758
06-Jun-2024
17:10
s
zaid



BEFORE
MASS
77
AREA
2191
HEIGHT
1274
06-Jun-2024
17:10
s
zaid



AFTER
MASS
77
AREA
2191
HEIGHT
1274
06-Jun-2024
17:10
s
zaid



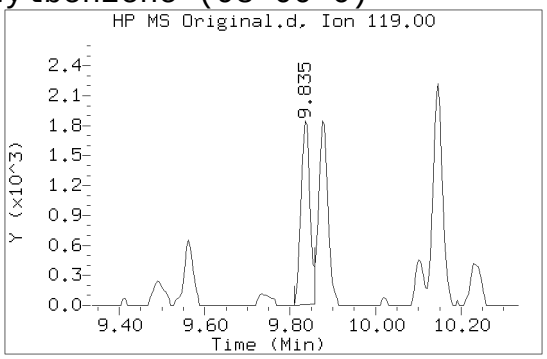
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052903.D
Inj Date : 29-MAY-2024 11:00
InstruID : VOA9.i
LabSampID : VSTD00.5

tert-Butylbenzene (98-06-6)

Reason Code:

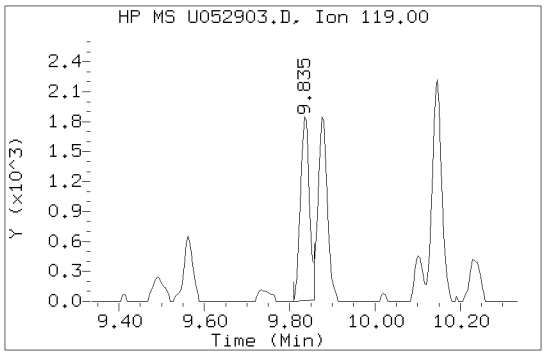
BEFORE

MASS
119
AREA
2791
HEIGHT
1843
06-Jun-2024
17:10
s
zaid



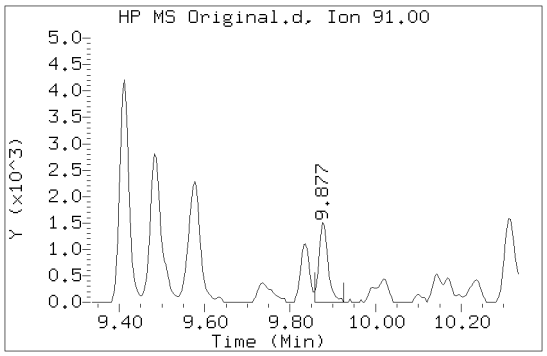
AFTER

MASS
119
AREA
2791
HEIGHT
1843
06-Jun-2024
17:10
s
zaid



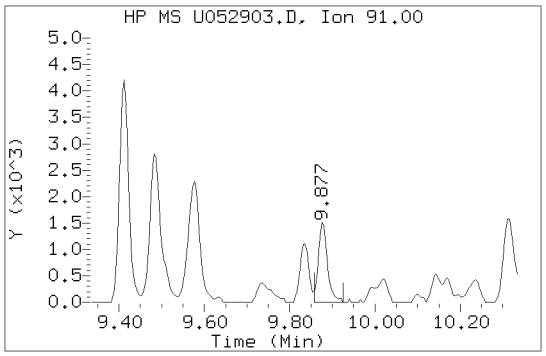
BEFORE

MASS
91
AREA
2254
HEIGHT
1507
06-Jun-2024
17:10
s
zaid



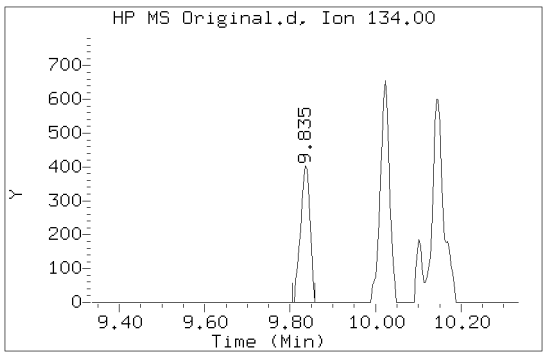
AFTER

MASS
91
AREA
2254
HEIGHT
1507
06-Jun-2024
17:10
s
zaid



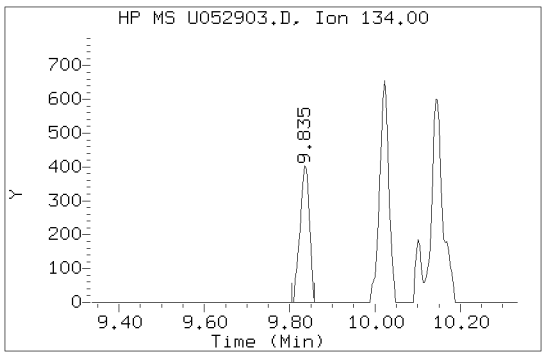
BEFORE

MASS
134
AREA
638
HEIGHT
404
06-Jun-2024
17:10
s
zaid



AFTER

MASS
134
AREA
638
HEIGHT
404
06-Jun-2024
17:10
s
zaid

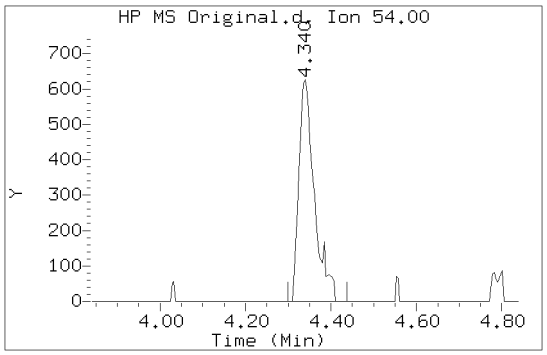


Propionitrile (107-12-0)

Reason Code:

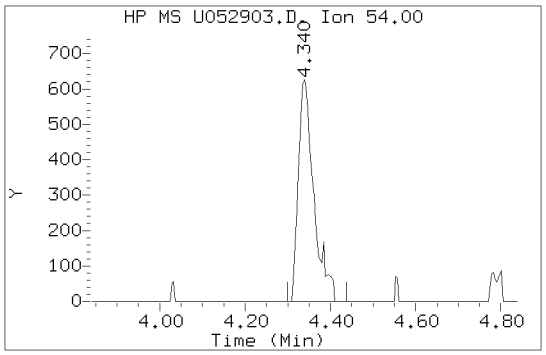
BEFORE

MASS
54
AREA
1595
HEIGHT
626
06-Jun-2024
17:10
s
zaid



AFTER

MASS
54
AREA
1595
HEIGHT
626
06-Jun-2024
17:10
s
zaid



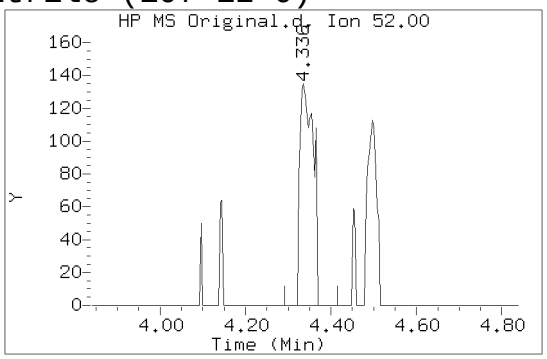
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052903.D
Inj Date : 29-MAY-2024 11:00
InstruID : VOA9.i
LabSampID : VSTD00.5

Propionitrile (107-12-0)

Reason Code:

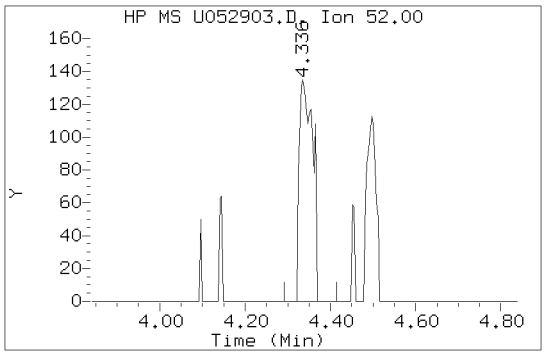
BEFORE

MASS
52
AREA
298
HEIGHT
135
06-Jun-2024
17:10
s
zaid



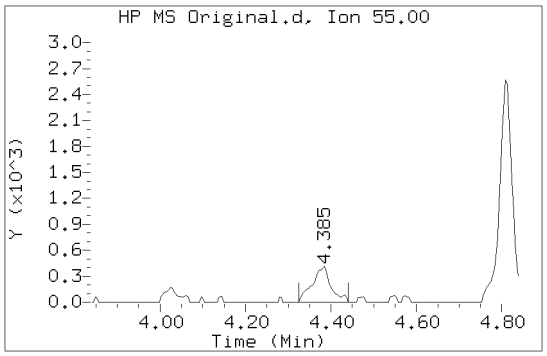
AFTER

MASS
52
AREA
298
HEIGHT
135
06-Jun-2024
17:10
s
zaid



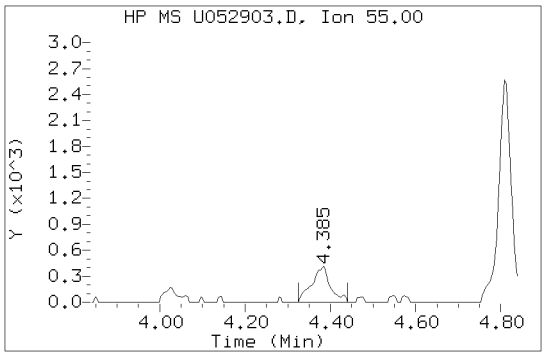
BEFORE

MASS
55
AREA
1262
HEIGHT
417
06-Jun-2024
17:10
s
zaid



AFTER

MASS
55
AREA
1262
HEIGHT
417
06-Jun-2024
17:10
s
zaid

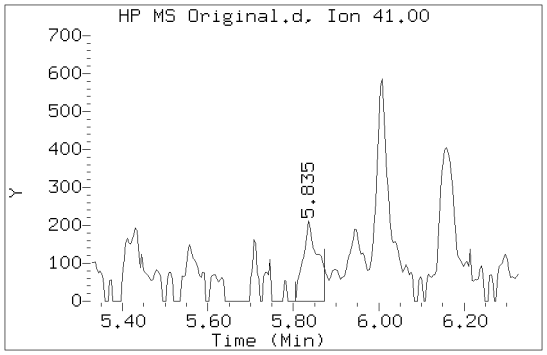


Methyl Methacrylate (80-62-6)

Reason Code:

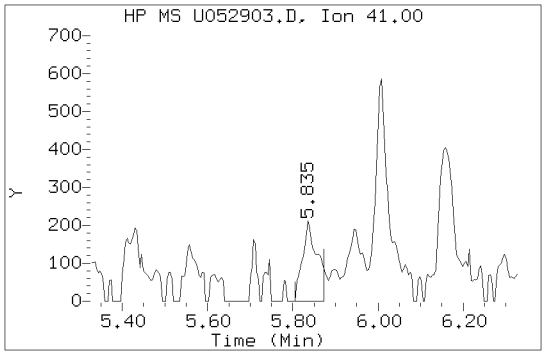
BEFORE

MASS
41
AREA
511
HEIGHT
211
06-Jun-2024
17:10
s
zaid



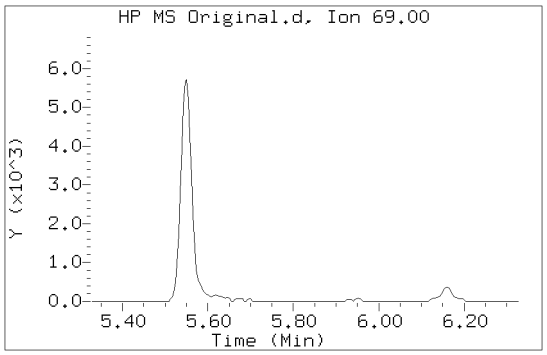
AFTER

MASS
41
AREA
511
HEIGHT
211
06-Jun-2024
17:10
s
zaid



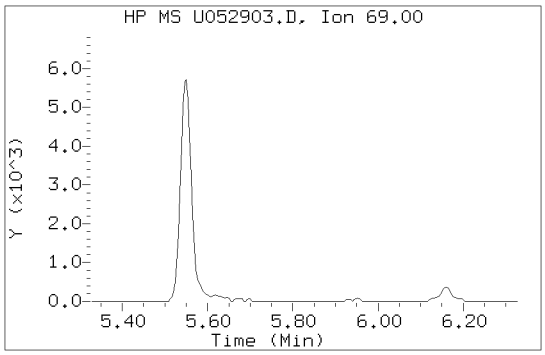
BEFORE

MASS
69
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



AFTER

MASS
69
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



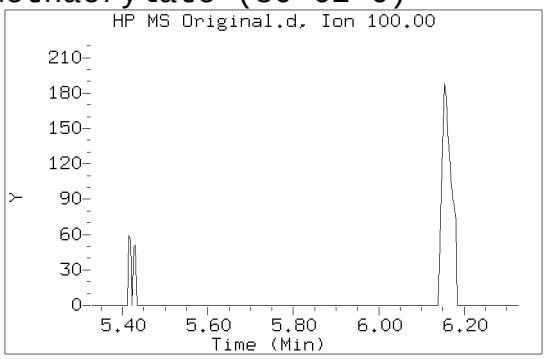
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052903.D
Inj Date : 29-MAY-2024 11:00
InstruID : VOA9.i
LabSampID : VSTD00.5

Methyl Methacrylate (80-62-6)

Reason Code:

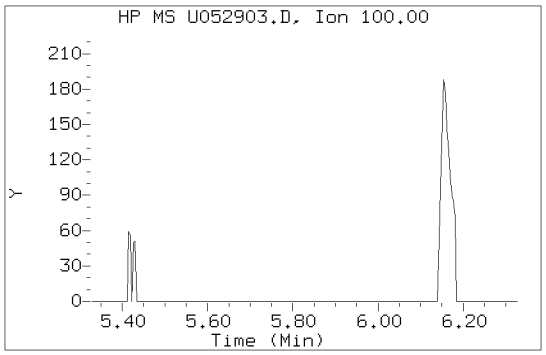
BEFORE

MASS
100
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



AFTER

MASS
100
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid

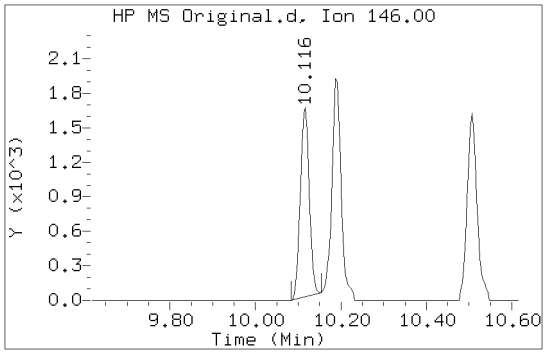


1,3-Dichlorobenzene (541-73-1)

Reason Code:

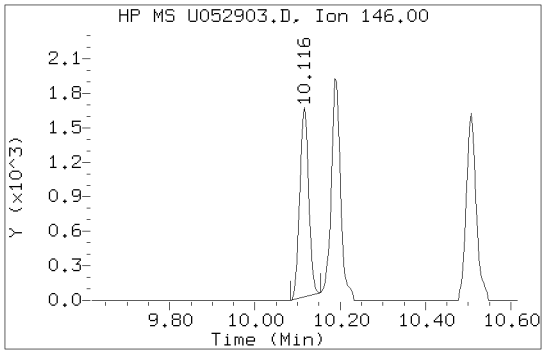
BEFORE

MASS
146
AREA
2434
HEIGHT
1644
06-Jun-2024
17:10
s
zaid



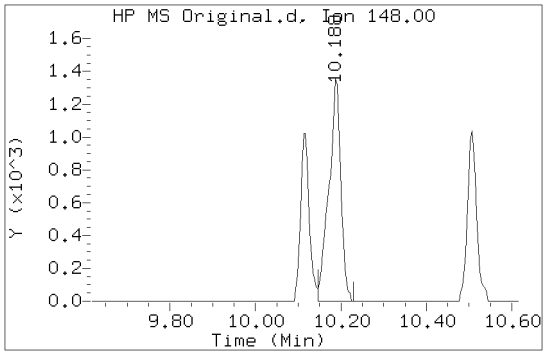
AFTER

MASS
146
AREA
2434
HEIGHT
1644
06-Jun-2024
17:10
s
zaid



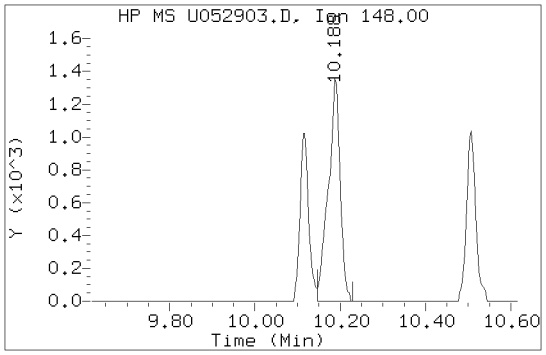
BEFORE

MASS
148
AREA
2623
HEIGHT
1354
06-Jun-2024
17:10
s
zaid



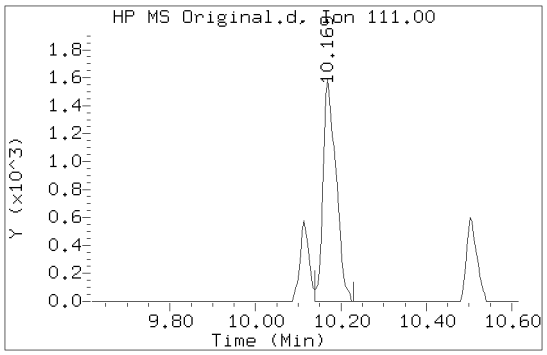
AFTER

MASS
148
AREA
2623
HEIGHT
1354
06-Jun-2024
17:10
s
zaid



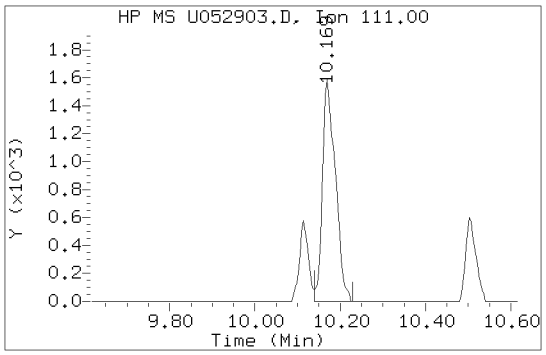
BEFORE

MASS
111
AREA
3341
HEIGHT
1586
06-Jun-2024
17:10
s
zaid



AFTER

MASS
111
AREA
3341
HEIGHT
1586
06-Jun-2024
17:10
s
zaid



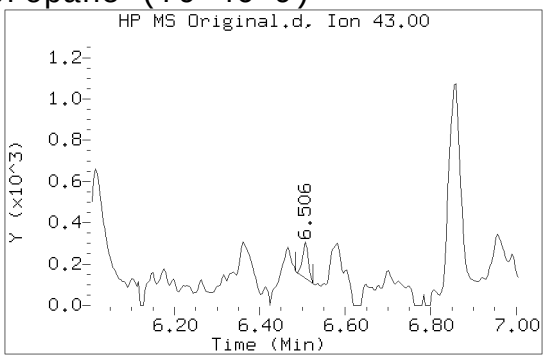
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052903.D
Inj Date : 29-MAY-2024 11:00
InstruID : VOA9.i
LabSampID : VSTD00.5

2-Nitropropane (79-46-9)

Reason Code:

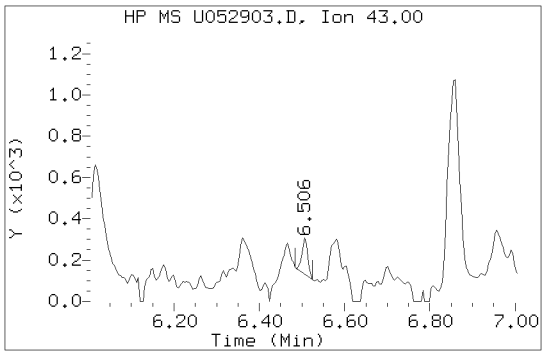
BEFORE

MASS
43
AREA
164
HEIGHT
173
06-Jun-2024
17:10
s
zaid



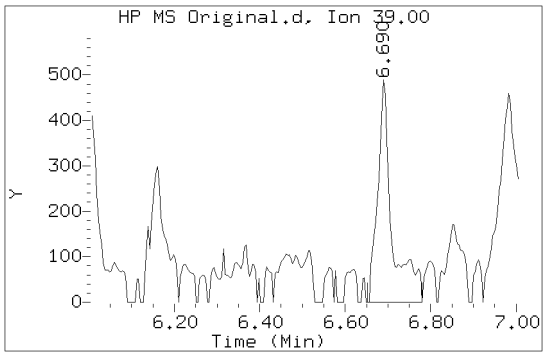
AFTER

MASS
43
AREA
164
HEIGHT
173
06-Jun-2024
17:10
s
zaid



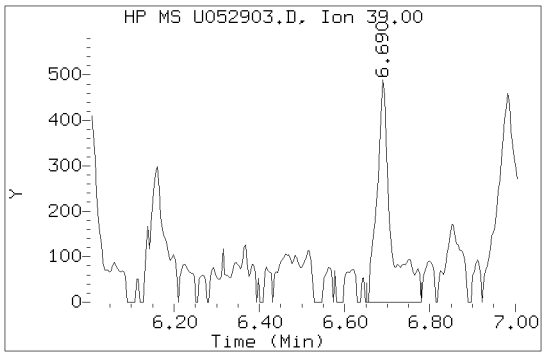
BEFORE

MASS
39
AREA
1144
HEIGHT
489
06-Jun-2024
17:10
s
zaid



AFTER

MASS
39
AREA
1144
HEIGHT
489
06-Jun-2024
17:10
s
zaid

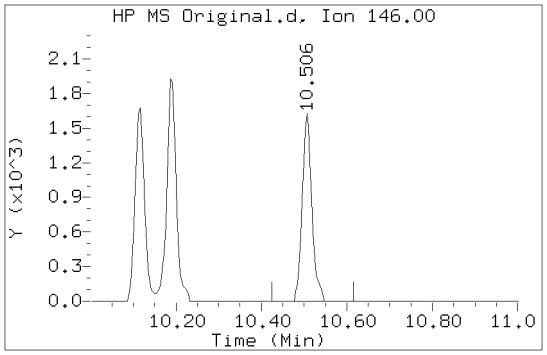


1,2-Dichlorobenzene (95-50-1)

Reason Code:

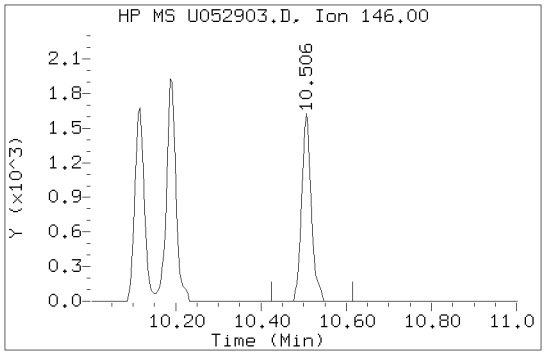
BEFORE

MASS
146
AREA
2607
HEIGHT
1628
06-Jun-2024
17:10
s
zaid



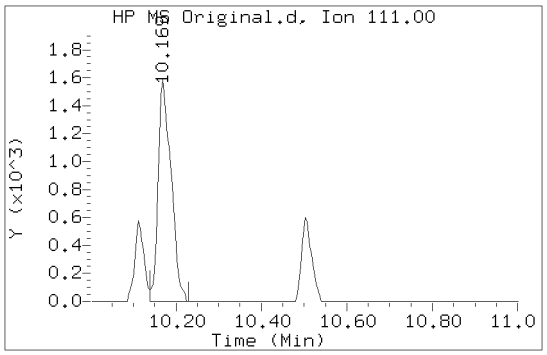
AFTER

MASS
146
AREA
2607
HEIGHT
1628
06-Jun-2024
17:10
s
zaid



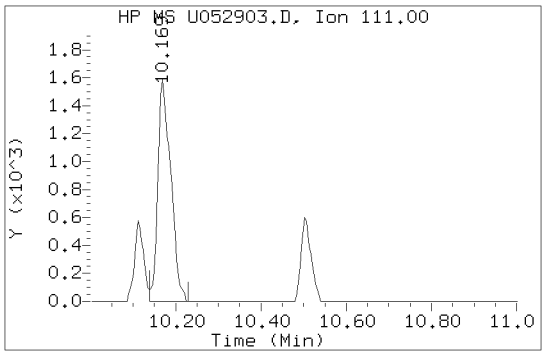
BEFORE

MASS
111
AREA
3341
HEIGHT
1586
06-Jun-2024
17:10
s
zaid



AFTER

MASS
111
AREA
3341
HEIGHT
1586
06-Jun-2024
17:10
s
zaid



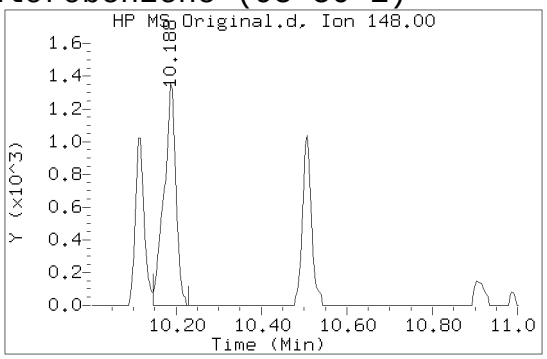
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Inj Date : 29-MAY-2024 11:00
InstruID : VOA9.i
LabSampID : VSTD00.5

1,2-Dichlorobenzene (95-50-1)

Reason Code:

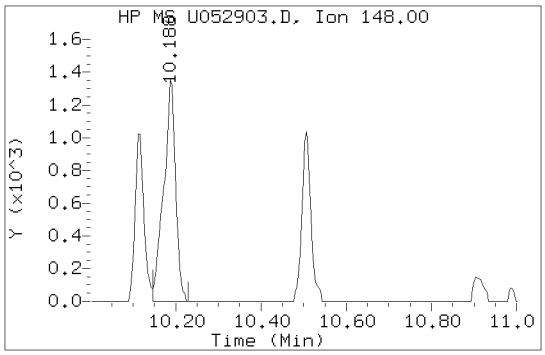
BEFORE

MASS
148
AREA
2623
HEIGHT
1354
06-Jun-2024
17:10
s
zaid



AFTER

MASS
148
AREA
2623
HEIGHT
1354
06-Jun-2024
17:10
s
zaid

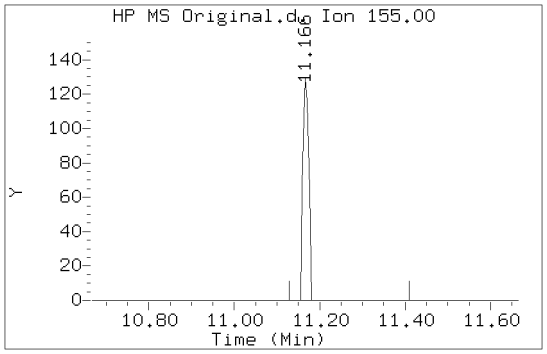


1,2-Dibromo-3-Chloropropane (96-12-8)

Reason Code:

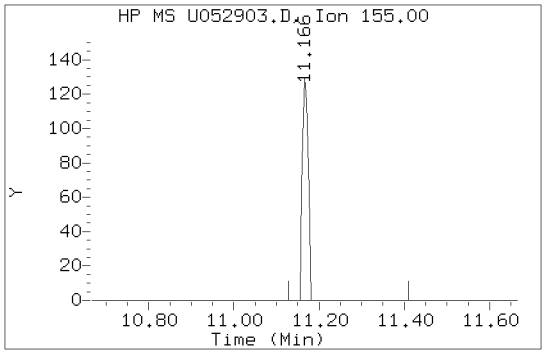
BEFORE

MASS
155
AREA
128
HEIGHT
129
06-Jun-2024
17:10
s
zaid



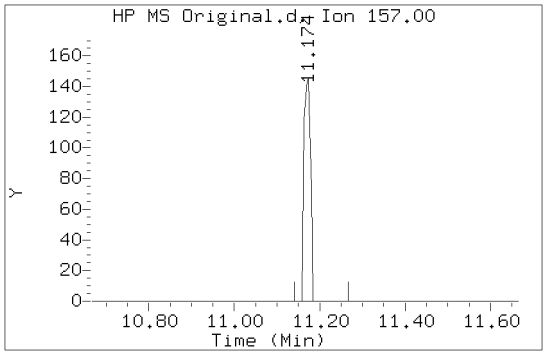
AFTER

MASS
155
AREA
128
HEIGHT
129
06-Jun-2024
17:10
s
zaid



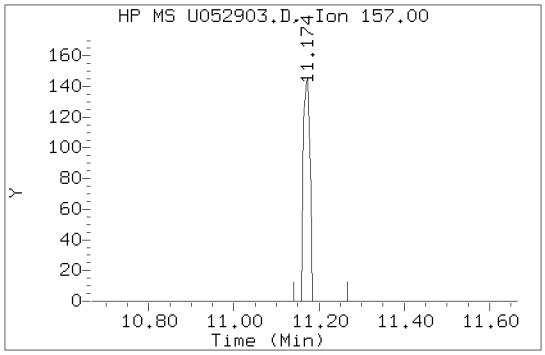
BEFORE

MASS
157
AREA
162
HEIGHT
145
06-Jun-2024
17:10
s
zaid



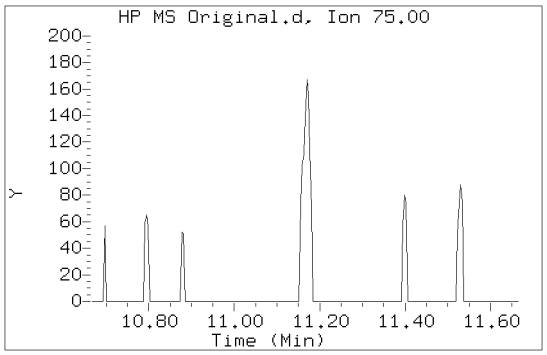
AFTER

MASS
157
AREA
162
HEIGHT
145
06-Jun-2024
17:10
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zaid



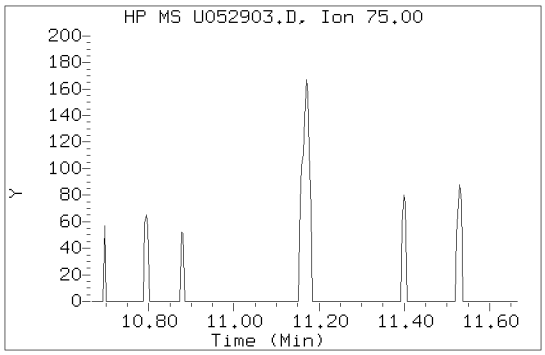
BEFORE

MASS
75
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



AFTER

MASS
75
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



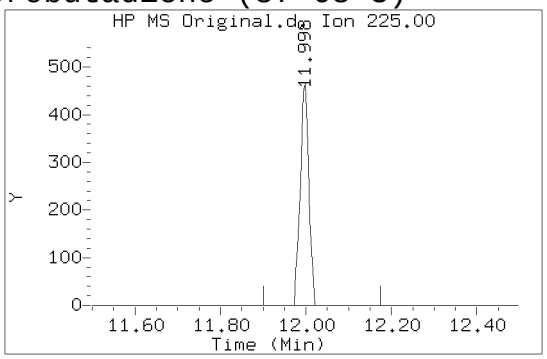
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Inj Date : 29-MAY-2024 11:00
InstruID : VOA9.i
LabSampID : VSTD00.5

Hexachlorobutadiene (87-68-3)

Reason Code:

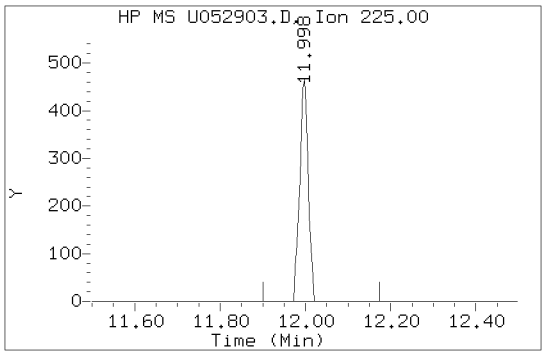
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AREA
668
HEIGHT
465
06-Jun-2024
17:10
s
zaid



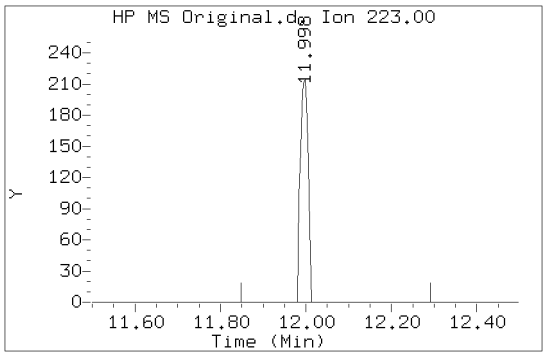
AFTER

MASS
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AREA
668
HEIGHT
465
06-Jun-2024
17:10
s
zaid



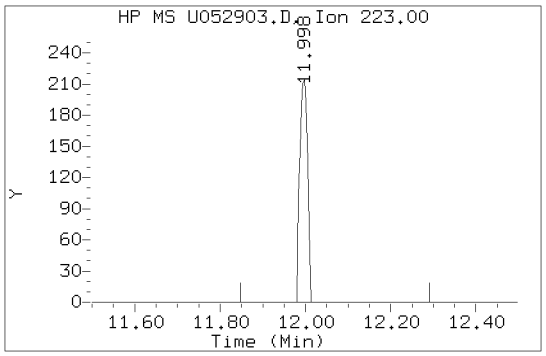
BEFORE

MASS
223
AREA
283
HEIGHT
214
06-Jun-2024
17:10
s
zaid



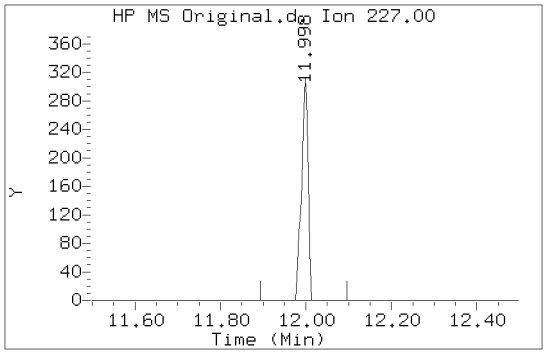
AFTER

MASS
223
AREA
283
HEIGHT
214
06-Jun-2024
17:10
s
zaid



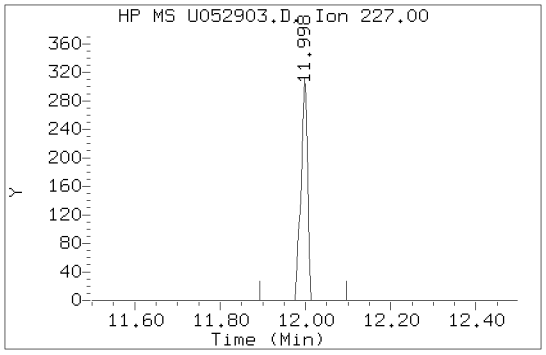
BEFORE

MASS
227
AREA
341
HEIGHT
311
06-Jun-2024
17:10
s
zaid



AFTER

MASS
227
AREA
341
HEIGHT
311
06-Jun-2024
17:10
s
zaid

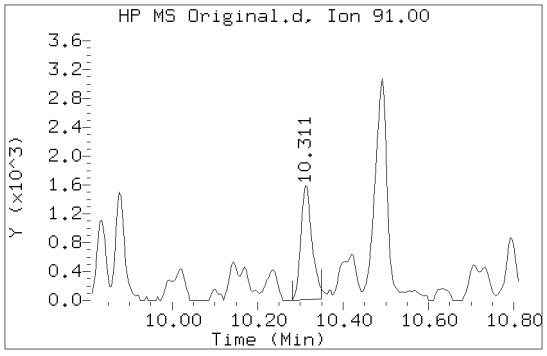


Benzyl Chloride (100-44-7)

Reason Code:

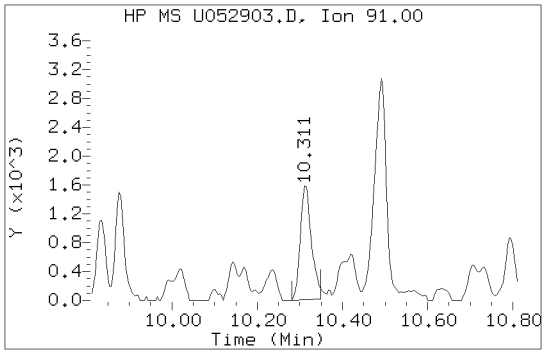
BEFORE

MASS
91
AREA
2950
HEIGHT
1579
06-Jun-2024
17:10
s
zaid



AFTER

MASS
91
AREA
2950
HEIGHT
1579
06-Jun-2024
17:10
s
zaid

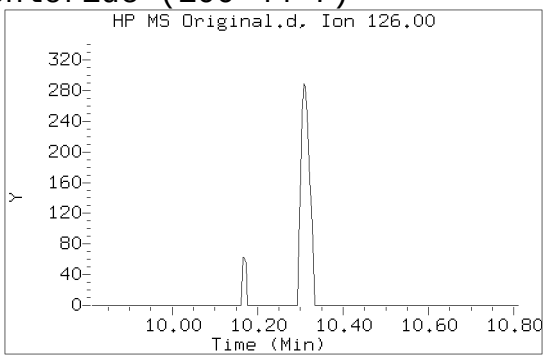


Data File : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052903.D
Inj Date : 29-MAY-2024 11:00
InstruID : VOA9.i
LabSampID : VSTD00.5

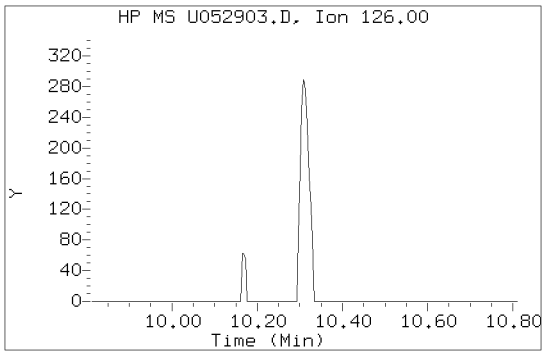
Benzyl Chloride (100-44-7)

Reason Code:

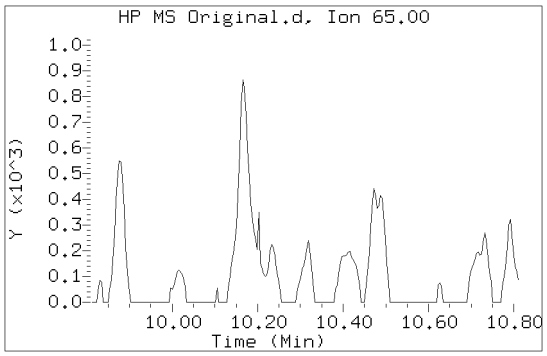
BEFORE
MASS
126
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



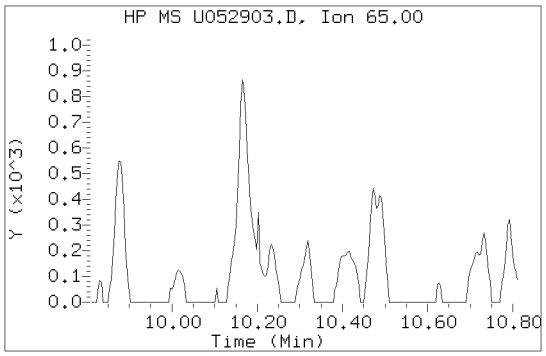
AFTER
MASS
126
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



BEFORE
MASS
65
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



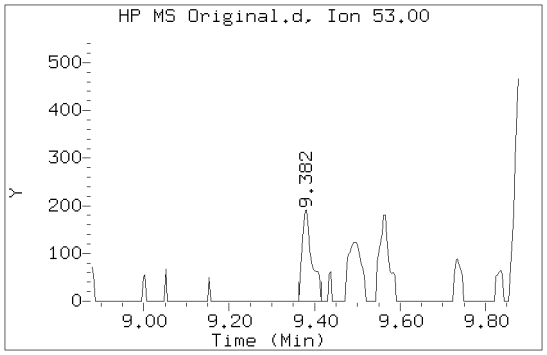
AFTER
MASS
65
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



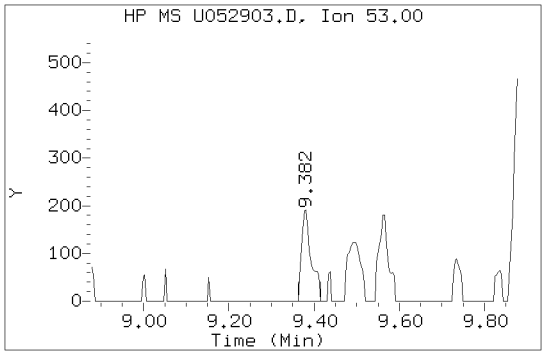
trans-1,4-Dichloro-2-butene (110-57-6)

Reason Code:

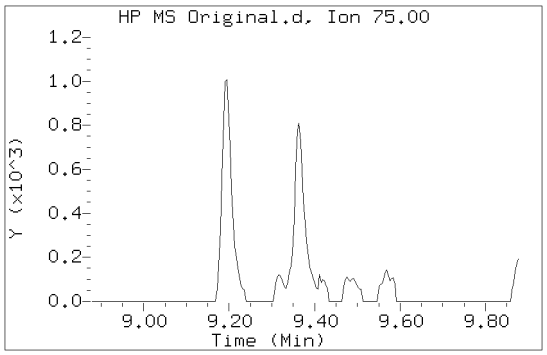
BEFORE
MASS
53
AREA
306
HEIGHT
192
06-Jun-2024
17:10
s
zaid



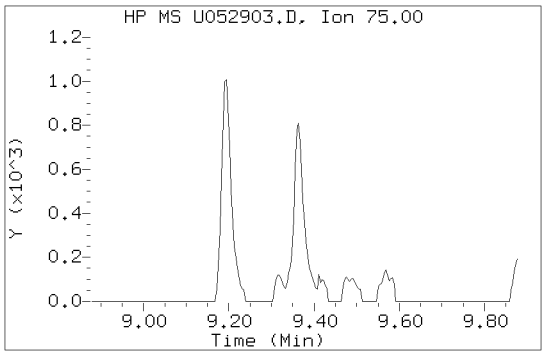
AFTER
MASS
53
AREA
306
HEIGHT
192
06-Jun-2024
17:10
s
zaid



BEFORE
MASS
75
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



AFTER
MASS
75
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



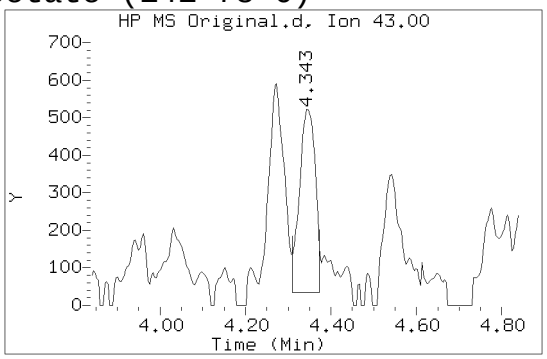
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052903.D
Inj Date : 29-MAY-2024 11:00
InstruID : VOA9.i
LabSampID : VSTD00.5

Ethyl Acetate (141-78-6)

Reason Code:

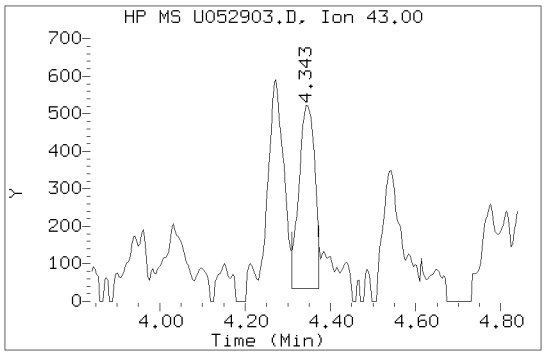
BEFORE

MASS
43
AREA
1284
HEIGHT
488
06-Jun-2024
17:10
s
zaid



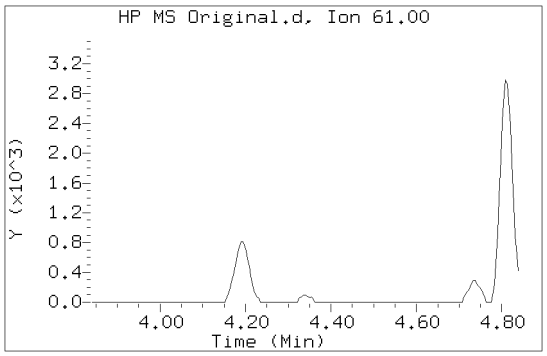
AFTER

MASS
43
AREA
1284
HEIGHT
488
06-Jun-2024
17:10
s
zaid



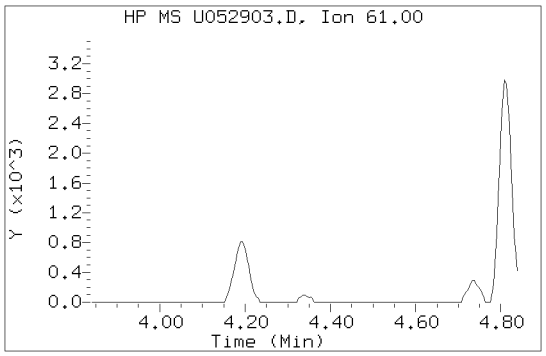
BEFORE

MASS
61
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



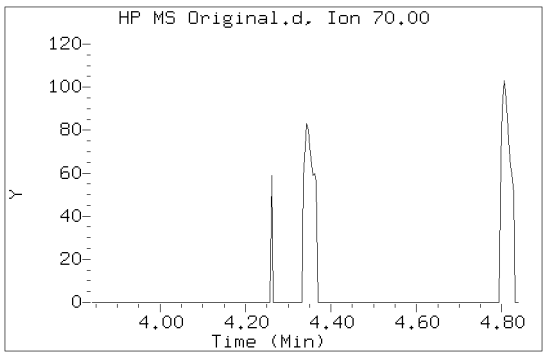
AFTER

MASS
61
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



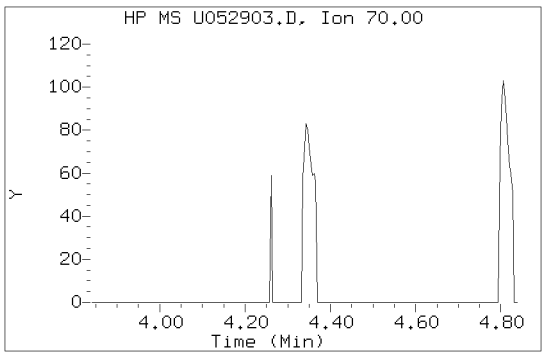
BEFORE

MASS
70
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



AFTER

MASS
70
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid

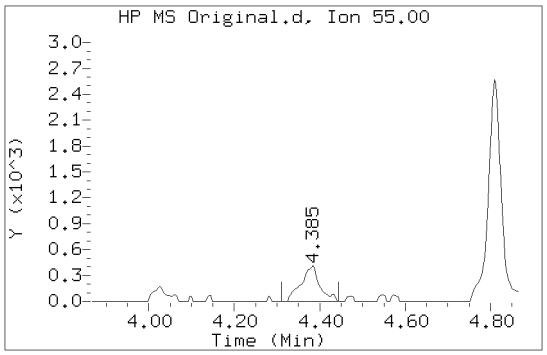


Methyl Acrylate (96-33-3)

Reason Code:

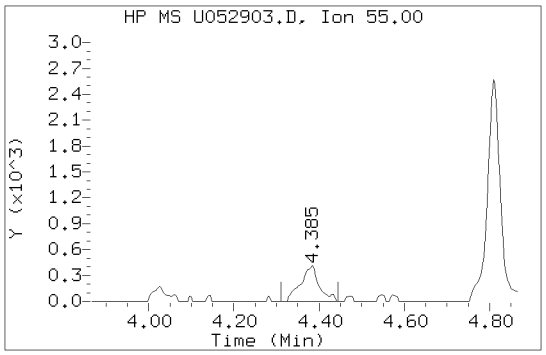
BEFORE

MASS
55
AREA
1262
HEIGHT
417
06-Jun-2024
17:10
s
zaid



AFTER

MASS
55
AREA
1262
HEIGHT
417
06-Jun-2024
17:10
s
zaid



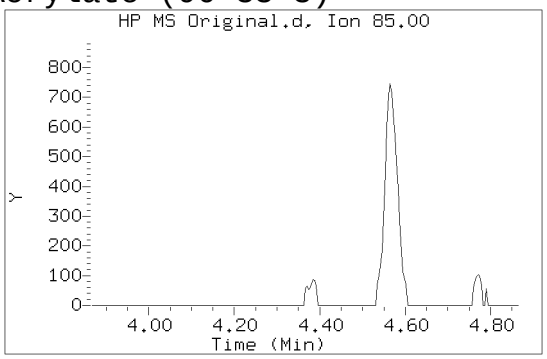
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Inj Date : 29-MAY-2024 11:00
InstruID : VOA9.i
LabSampID : VSTD00.5

Methyl Acrylate (96-33-3)

Reason Code:

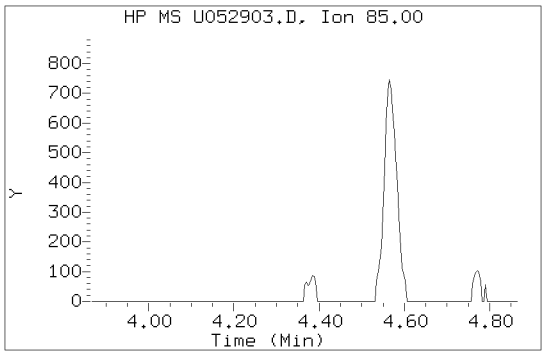
BEFORE

MASS
85
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



AFTER

MASS
85
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid

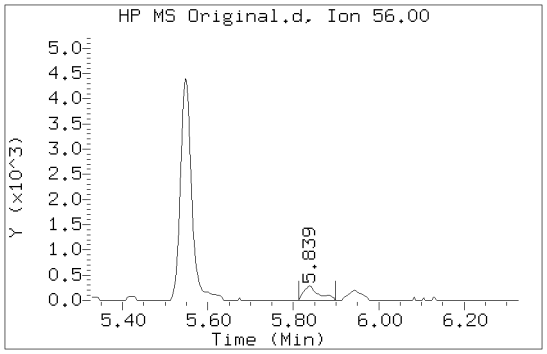


n-Butanol (71-36-3)

Reason Code:

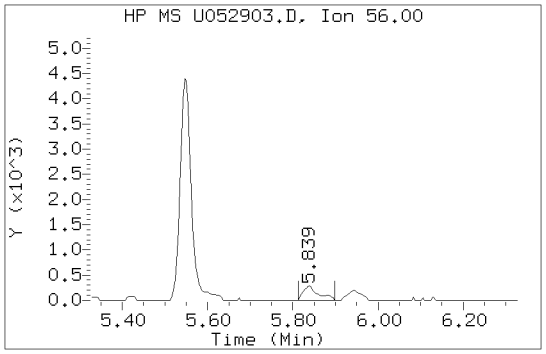
BEFORE

MASS
56
AREA
701
HEIGHT
286
06-Jun-2024
17:10
s
zaid



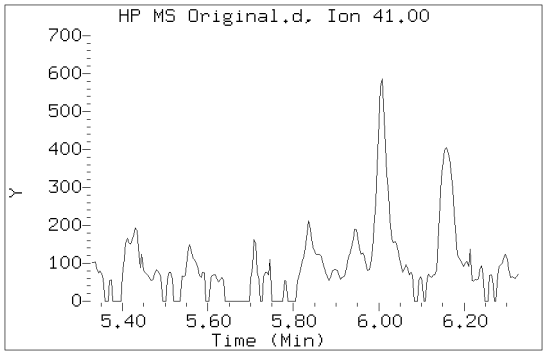
AFTER

MASS
56
AREA
701
HEIGHT
286
06-Jun-2024
17:10
s
zaid



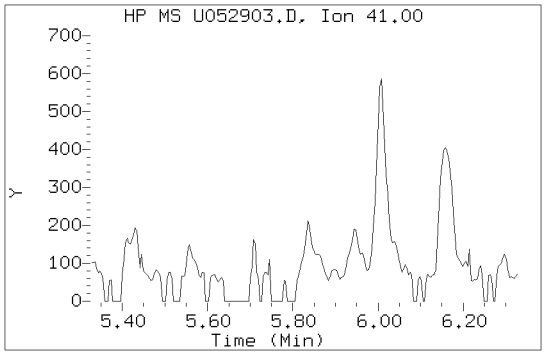
BEFORE

MASS
41
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



AFTER

MASS
41
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid

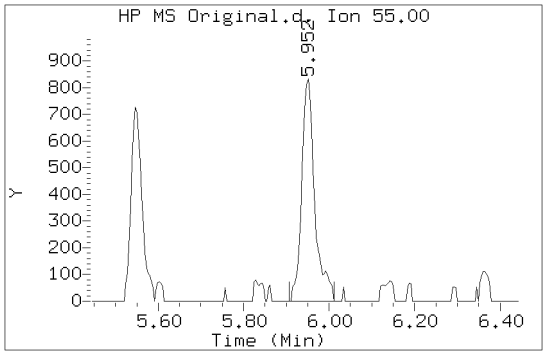


Ethyl Acrylate (140-88-5)

Reason Code:

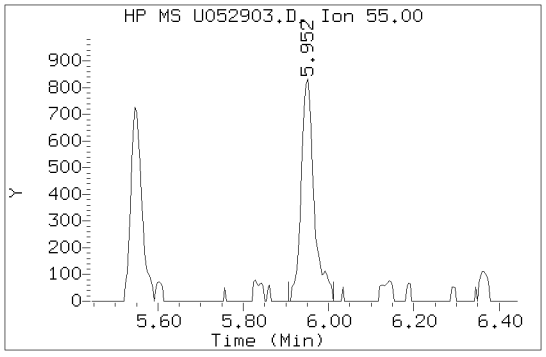
BEFORE

MASS
55
AREA
1801
HEIGHT
833
06-Jun-2024
17:10
s
zaid



AFTER

MASS
55
AREA
1801
HEIGHT
833
06-Jun-2024
17:10
s
zaid



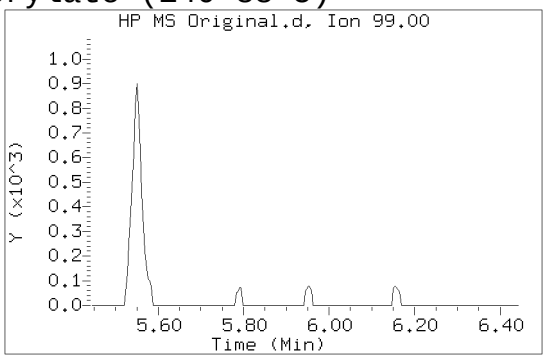
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052903.D
Inj Date : 29-MAY-2024 11:00
InstruID : VOA9.i
LabSampID : VSTD00.5

Ethyl Acrylate (140-88-5)

Reason Code:

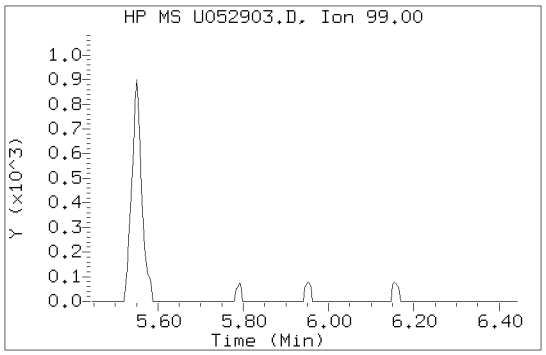
BEFORE

MASS
99
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



AFTER

MASS
99
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid

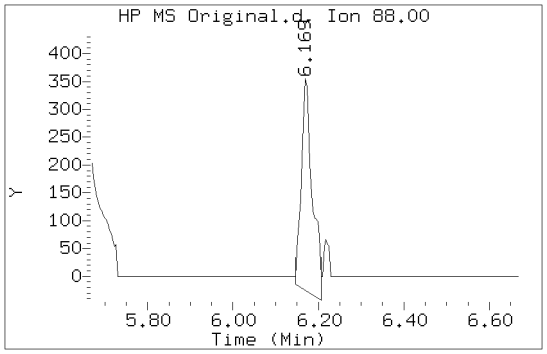


1,4-Dioxane ()

Reason Code:

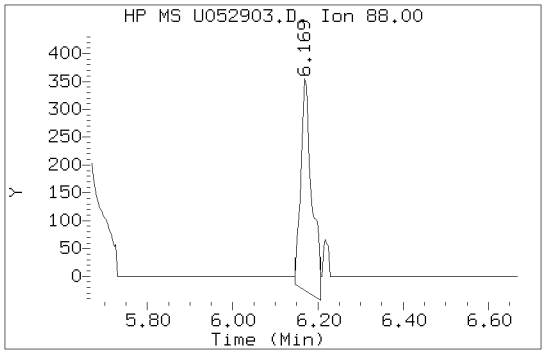
BEFORE

MASS
88
AREA
700
HEIGHT
379
06-Jun-2024
17:10
s
zaid



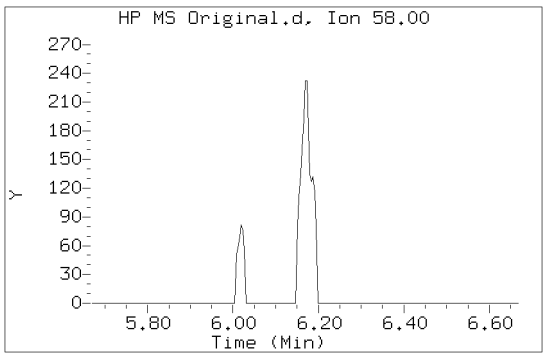
AFTER

MASS
88
AREA
700
HEIGHT
379
06-Jun-2024
17:10
s
zaid



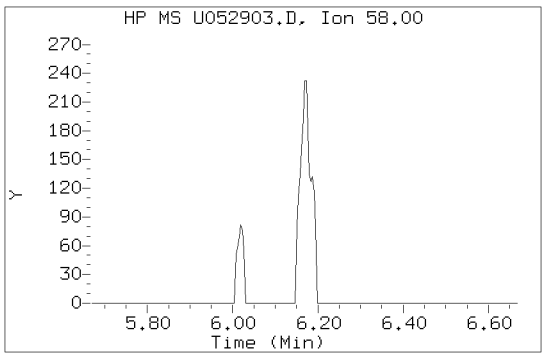
BEFORE

MASS
58
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



AFTER

MASS
58
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid

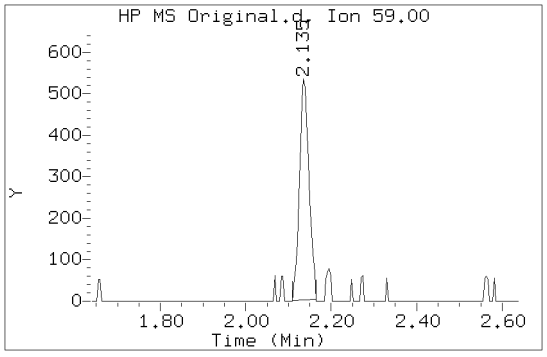


Diethyl ether (60-29-7)

Reason Code:

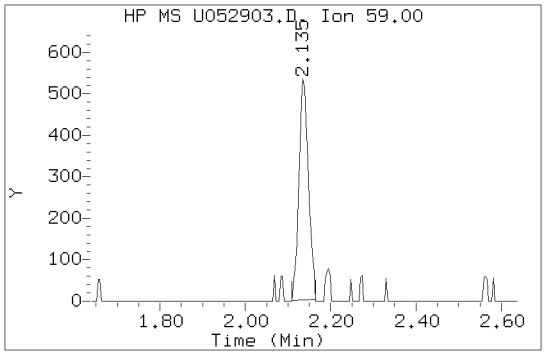
BEFORE

MASS
59
AREA
846
HEIGHT
533
06-Jun-2024
17:10
s
zaid



AFTER

MASS
59
AREA
846
HEIGHT
533
06-Jun-2024
17:10
s
zaid

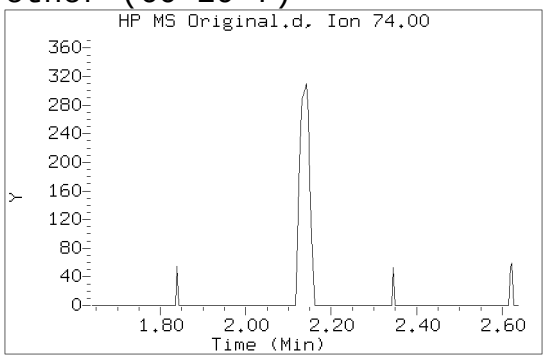


Data File : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052903.D
Inj Date : 29-MAY-2024 11:00
InstruID : VOA9.i
LabSampID : VSTD00.5

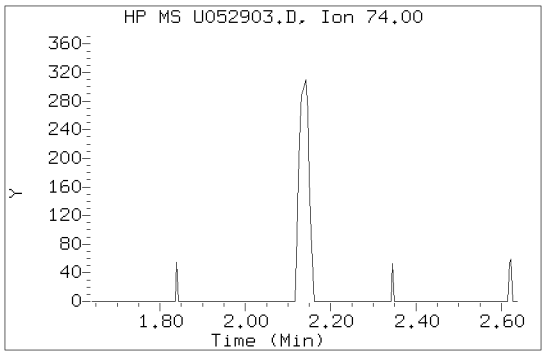
Diethyl ether (60-29-7)

Reason Code:

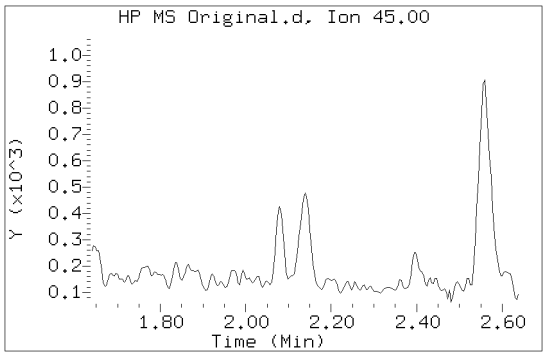
BEFORE
MASS
74
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



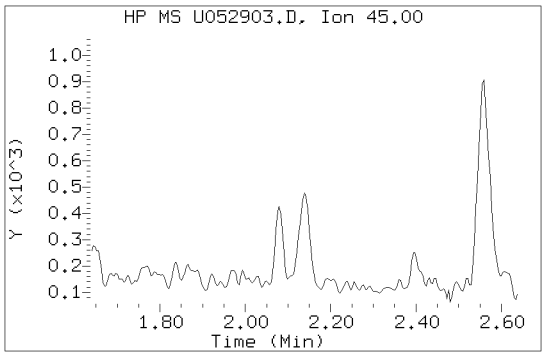
AFTER
MASS
74
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



BEFORE
MASS
45
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



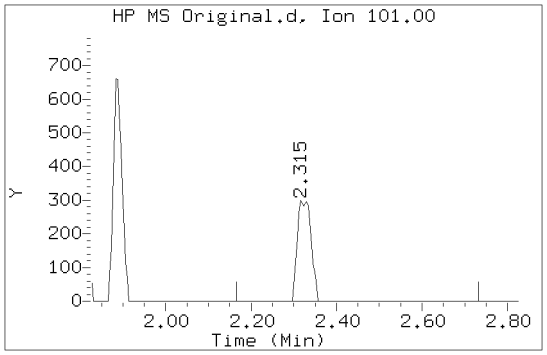
AFTER
MASS
45
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



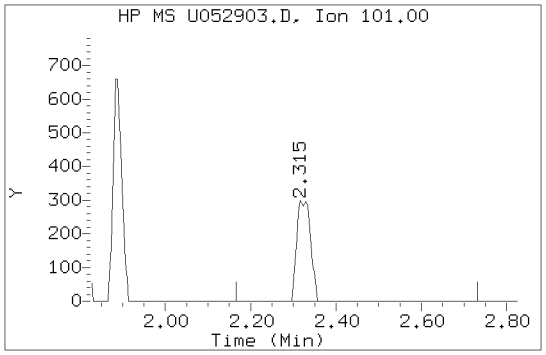
Freon TF (76-13-1)

Reason Code:

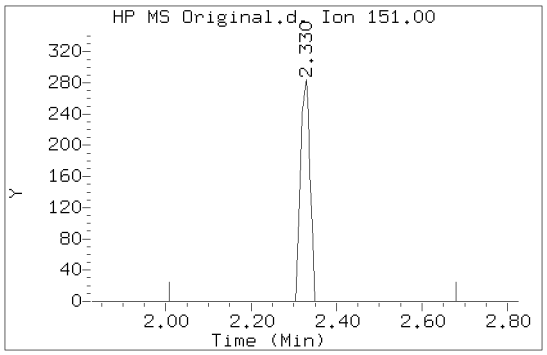
BEFORE
MASS
101
AREA
683
HEIGHT
299
06-Jun-2024
17:10
s
zaid



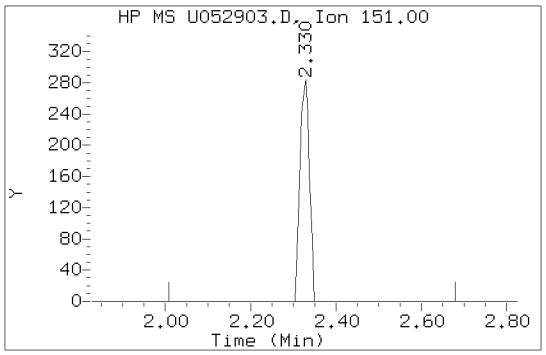
AFTER
MASS
101
AREA
683
HEIGHT
299
06-Jun-2024
17:10
s
zaid



BEFORE
MASS
151
AREA
450
HEIGHT
284
06-Jun-2024
17:10
s
zaid



AFTER
MASS
151
AREA
450
HEIGHT
284
06-Jun-2024
17:10
s
zaid

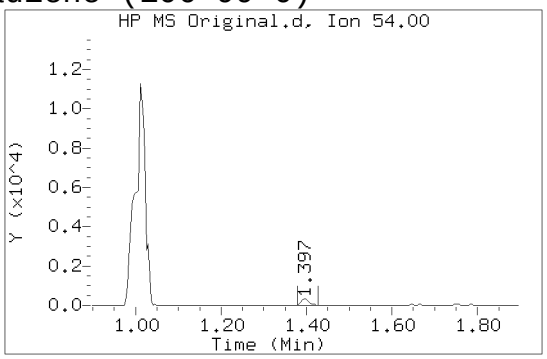


Data File : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052903.D
Inj Date : 29-MAY-2024 11:00
InstruID : VOA9.i
LabSampID : VSTD00.5

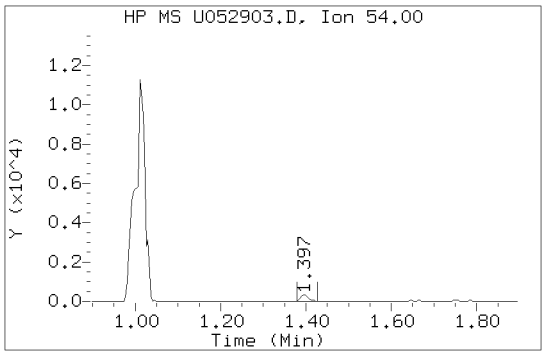
1,3-Butadiene (106-99-0)

Reason Code:

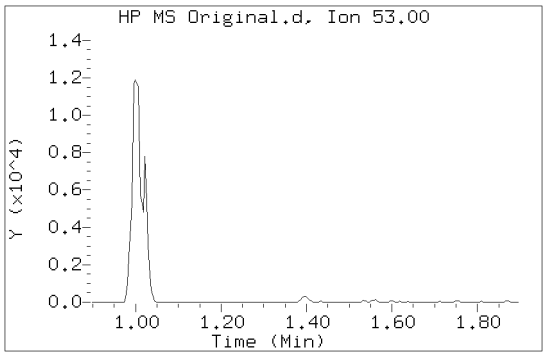
BEFORE
MASS
54
AREA
441
HEIGHT
341
06-Jun-2024
17:10
s
zaid



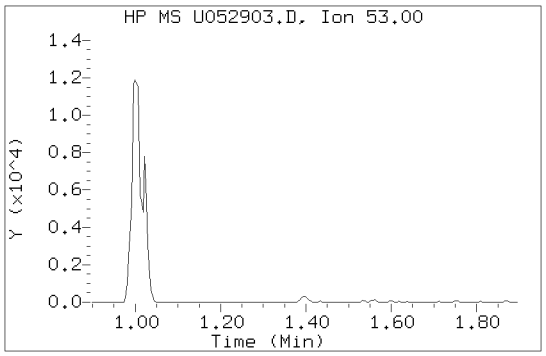
AFTER
MASS
54
AREA
441
HEIGHT
341
06-Jun-2024
17:10
s
zaid



BEFORE
MASS
53
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



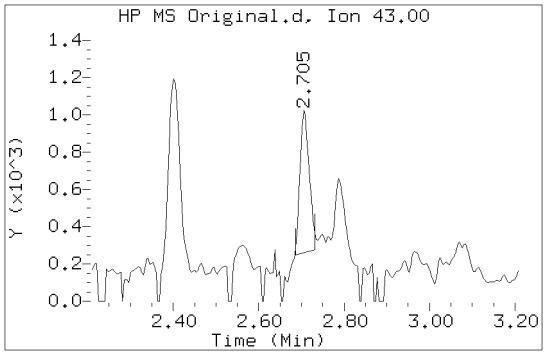
AFTER
MASS
53
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



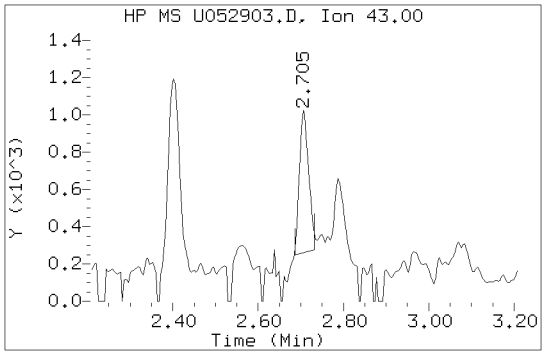
Methyl acetate (79-20-9)

Reason Code:

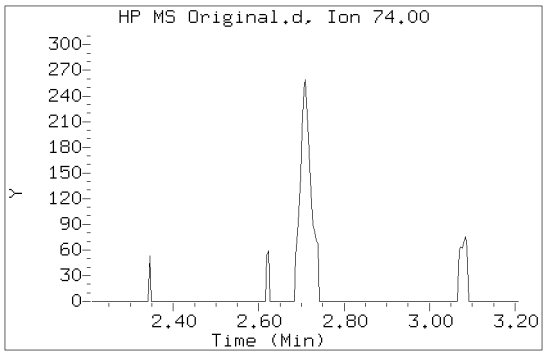
BEFORE
MASS
43
AREA
1181
HEIGHT
764
06-Jun-2024
17:10
s
zaid



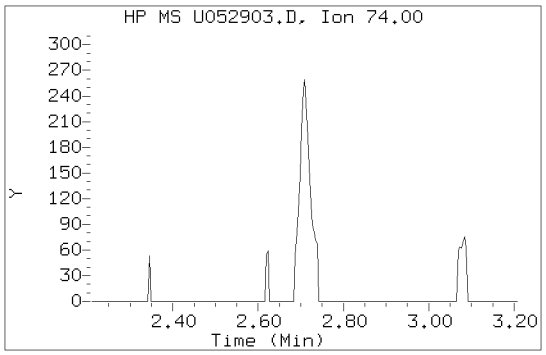
AFTER
MASS
43
AREA
1181
HEIGHT
764
06-Jun-2024
17:10
s
zaid



BEFORE
MASS
74
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



AFTER
MASS
74
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



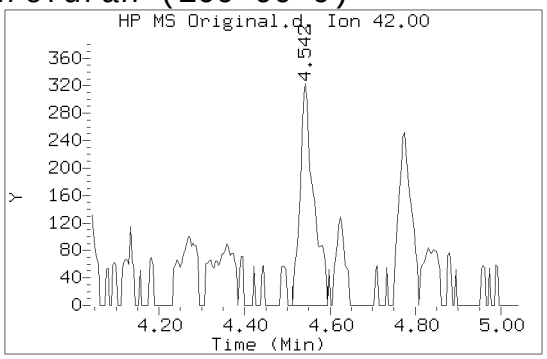
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052903.D
Inj Date : 29-MAY-2024 11:00
InstruID : VOA9.i
LabSampID : VSTD00.5

Tetrahydrofuran (109-99-9)

Reason Code:

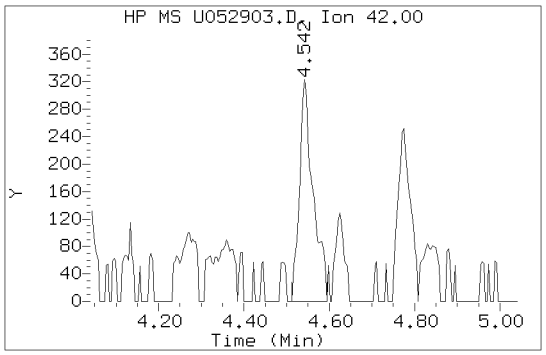
BEFORE

MASS
42
AREA
723
HEIGHT
323
06-Jun-2024
17:10
s
zaid



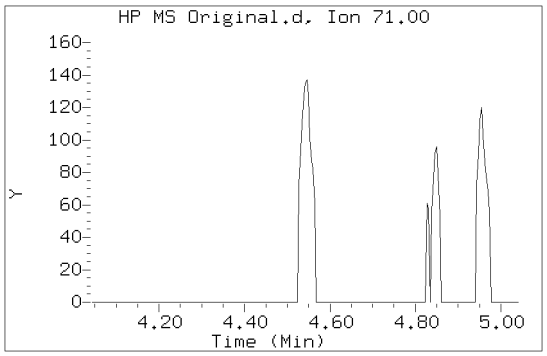
AFTER

MASS
42
AREA
723
HEIGHT
323
06-Jun-2024
17:10
s
zaid



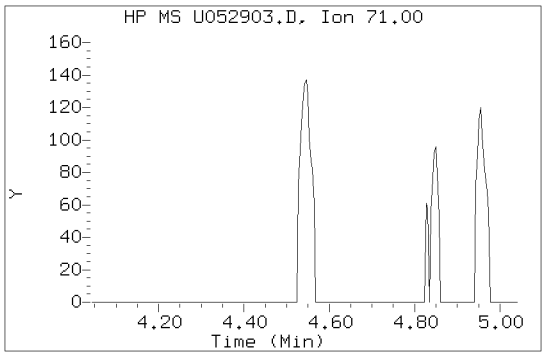
BEFORE

MASS
71
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



AFTER

MASS
71
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid

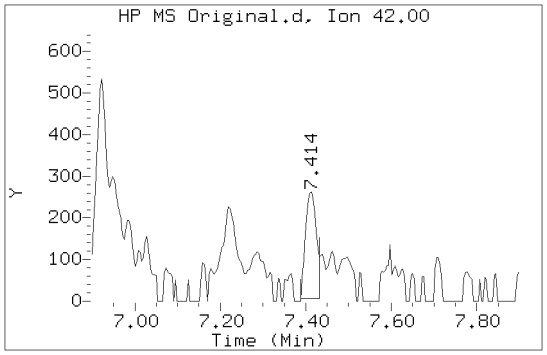


Amyl alcohol (71-41-0)

Reason Code:

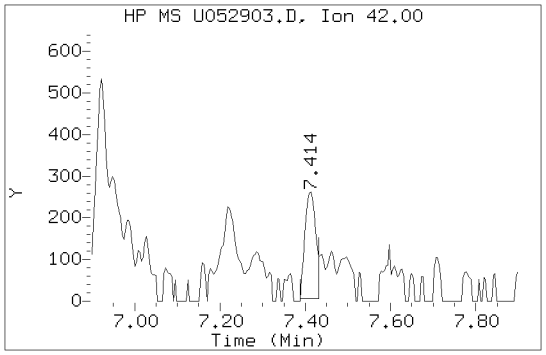
BEFORE

MASS
42
AREA
468
HEIGHT
257
06-Jun-2024
17:10
s
zaid



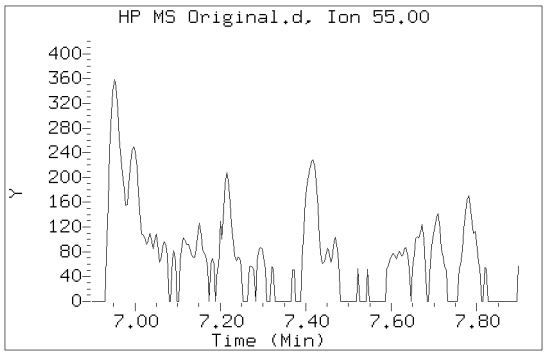
AFTER

MASS
42
AREA
468
HEIGHT
257
06-Jun-2024
17:10
s
zaid



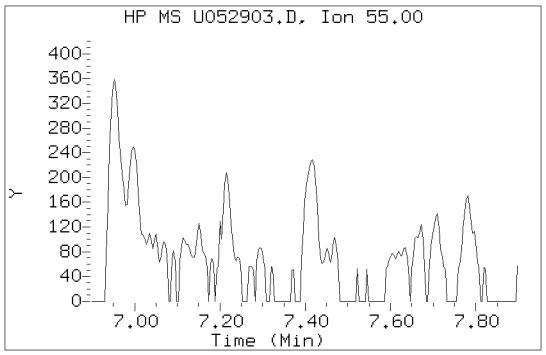
BEFORE

MASS
55
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



AFTER

MASS
55
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



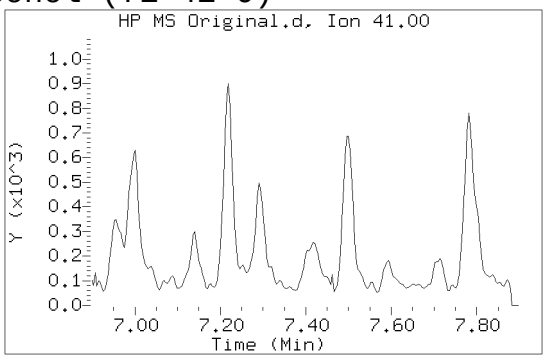
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052903.D
Inj Date : 29-MAY-2024 11:00
InstruID : VOA9.i
LabSampID : VSTD00.5

Amyl alcohol (71-41-0)

Reason Code:

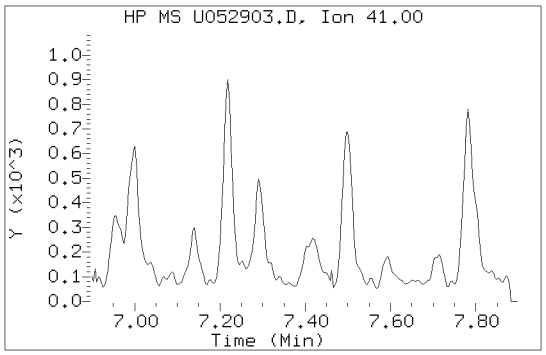
BEFORE

MASS
41
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



AFTER

MASS
41
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid

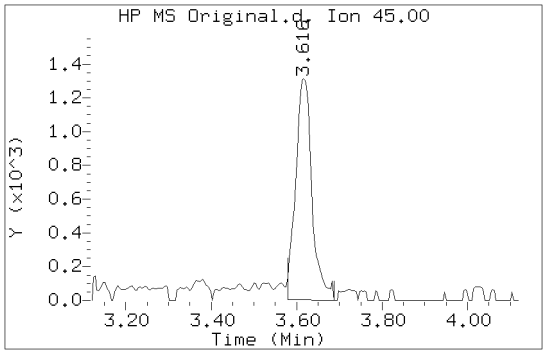


Diisopropyl ether (108-20-3)

Reason Code:

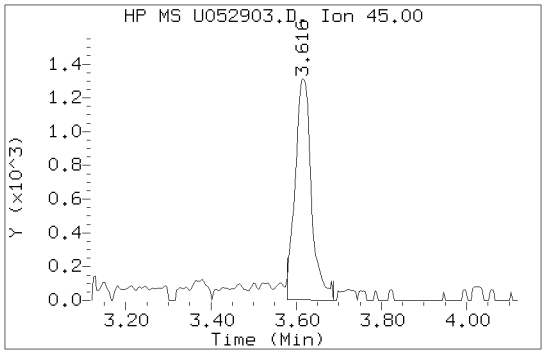
BEFORE

MASS
45
AREA
3553
HEIGHT
1312
06-Jun-2024
17:10
s
zaid



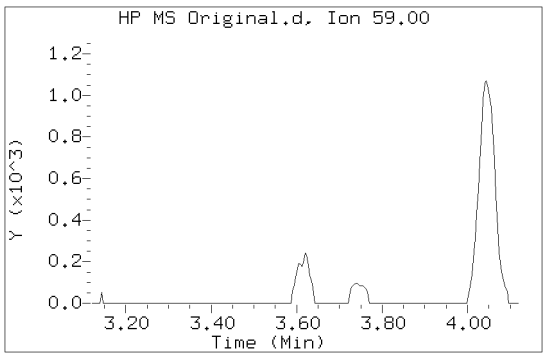
AFTER

MASS
45
AREA
3553
HEIGHT
1312
06-Jun-2024
17:10
s
zaid



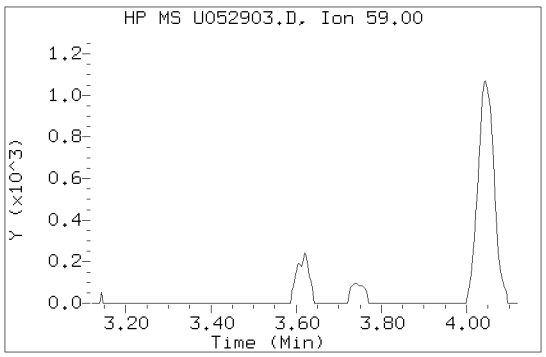
BEFORE

MASS
59
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



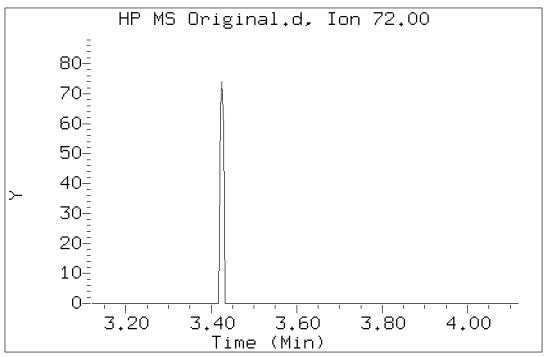
AFTER

MASS
59
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



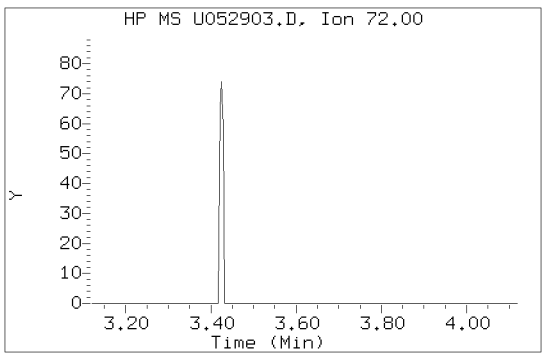
BEFORE

MASS
72
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



AFTER

MASS
72
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid

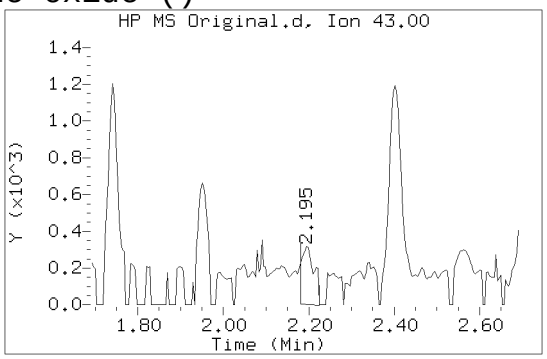


Data File : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052903.D
Inj Date : 29-MAY-2024 11:00
InstruID : VOA9.i
LabSampID : VSTD00.5

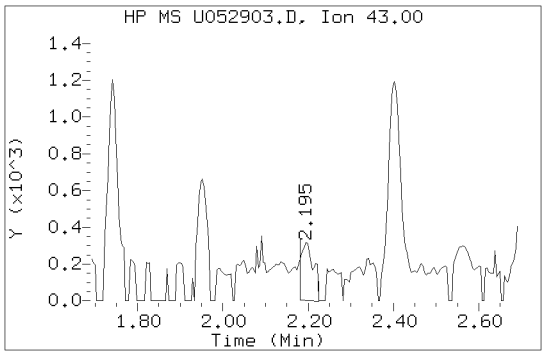
Propylene oxide ()

Reason Code:

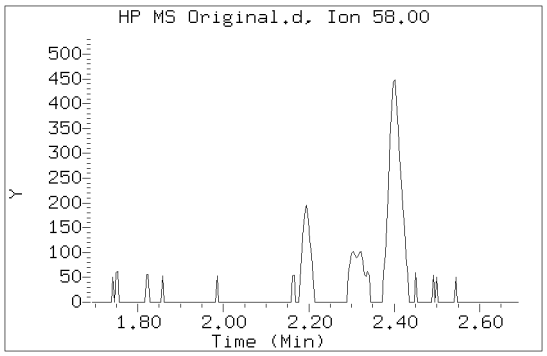
BEFORE
MASS
43
AREA
651
HEIGHT
315
06-Jun-2024
17:10
s
zaid



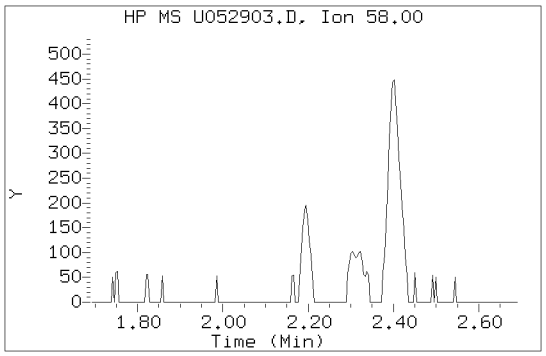
AFTER
MASS
43
AREA
651
HEIGHT
315
06-Jun-2024
17:10
s
zaid



BEFORE
MASS
58
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



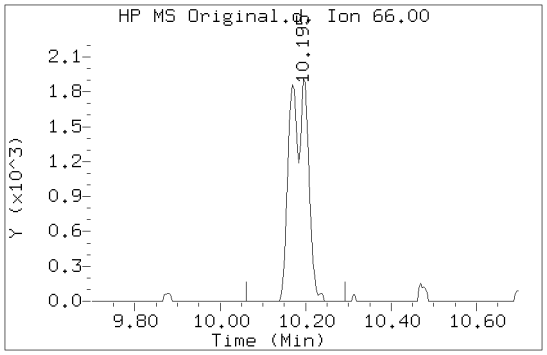
AFTER
MASS
58
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



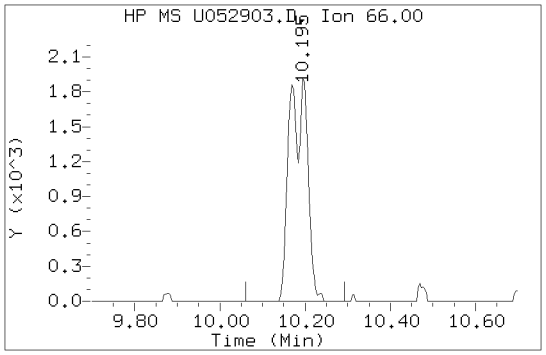
Dicyclopentadiene (77-73-6)

Reason Code:

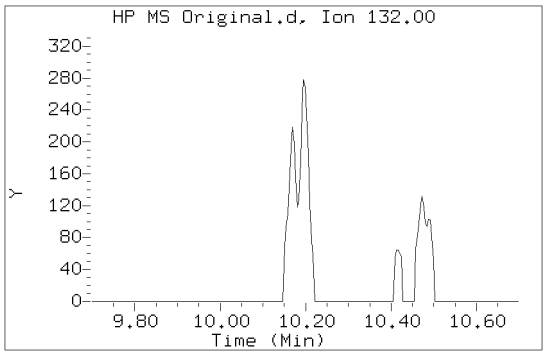
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MASS
66
AREA
5765
HEIGHT
1911
06-Jun-2024
17:10
s
zaid



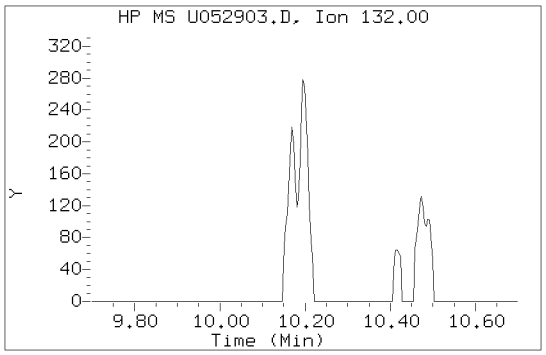
AFTER
MASS
66
AREA
5765
HEIGHT
1911
06-Jun-2024
17:10
s
zaid



BEFORE
MASS
132
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



AFTER
MASS
132
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid

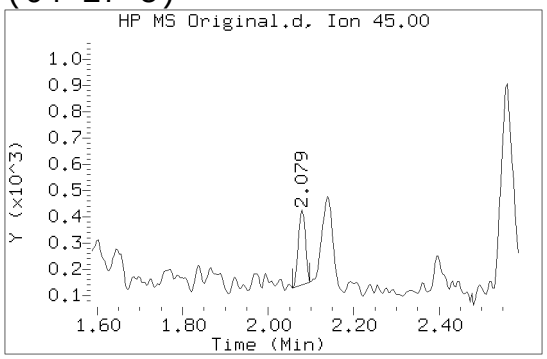


Data File : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052903.D
Inj Date : 29-MAY-2024 11:00
InstruID : VOA9.i
LabSampID : VSTD00.5

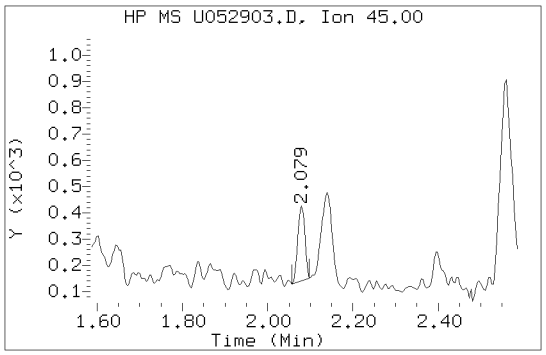
Ethanol (64-17-5)

Reason Code:

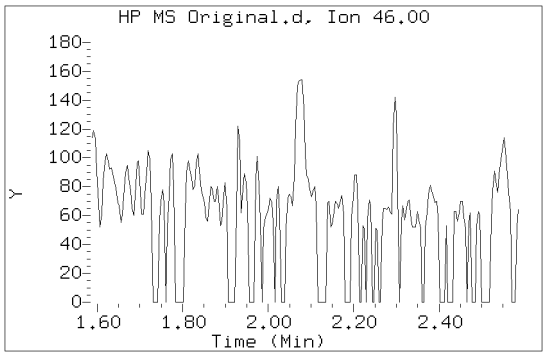
BEFORE
MASS
45
AREA
339
HEIGHT
286
06-Jun-2024
17:10
s
zaid



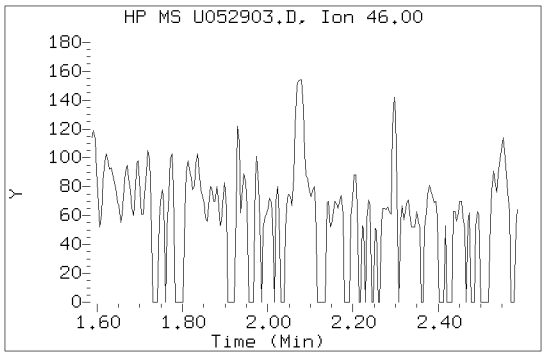
AFTER
MASS
45
AREA
339
HEIGHT
286
06-Jun-2024
17:10
s
zaid



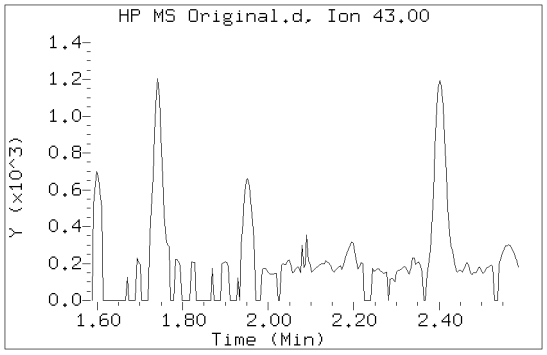
BEFORE
MASS
46
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



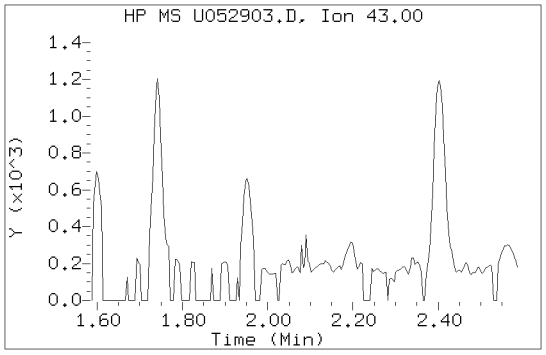
AFTER
MASS
46
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



BEFORE
MASS
43
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



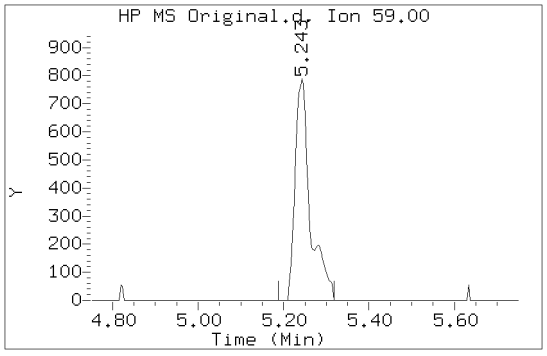
AFTER
MASS
43
AREA
0
HEIGHT
0
06-Jun-2024
17:10
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zaid



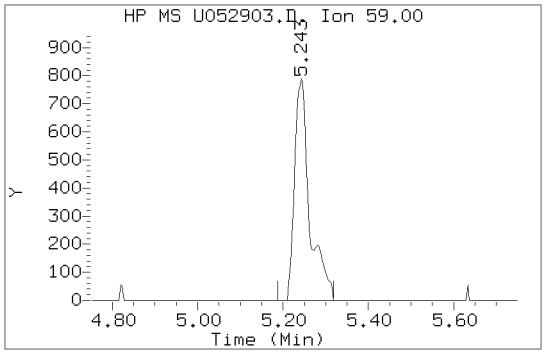
tert-Butyl formate (762-75-4)

Reason Code:

BEFORE
MASS
59
AREA
1972
HEIGHT
789
06-Jun-2024
17:10
s
zaid



AFTER
MASS
59
AREA
1972
HEIGHT
789
06-Jun-2024
17:10
s
zaid



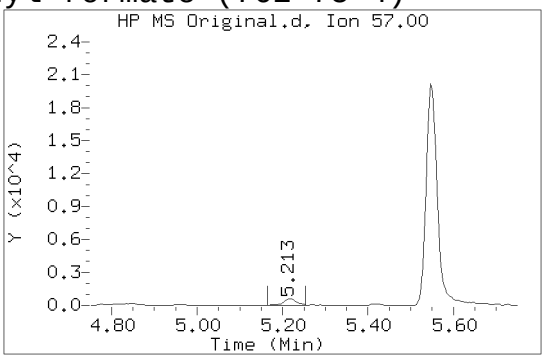
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052903.D
Inj Date : 29-MAY-2024 11:00
InstruID : VOA9.i
LabSampID : VSTD00.5

tert-Butyl formate (762-75-4)

Reason Code:

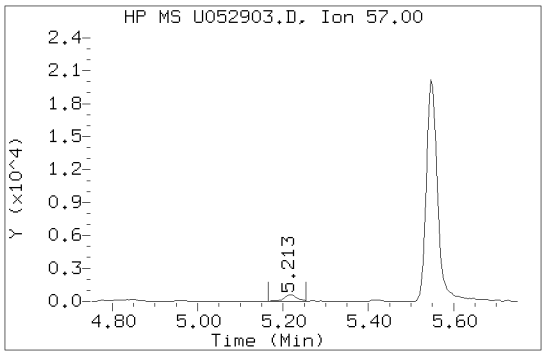
BEFORE

MASS
57
AREA
1288
HEIGHT
583
06-Jun-2024
17:10
s
zaid



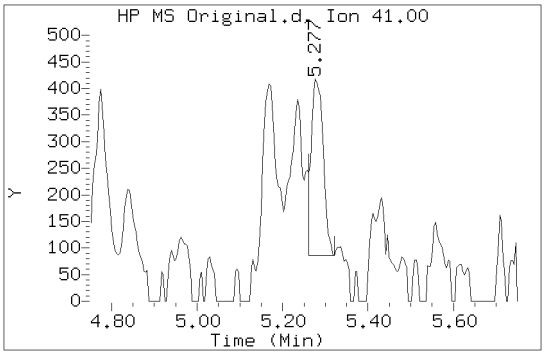
AFTER

MASS
57
AREA
1288
HEIGHT
583
06-Jun-2024
17:10
s
zaid



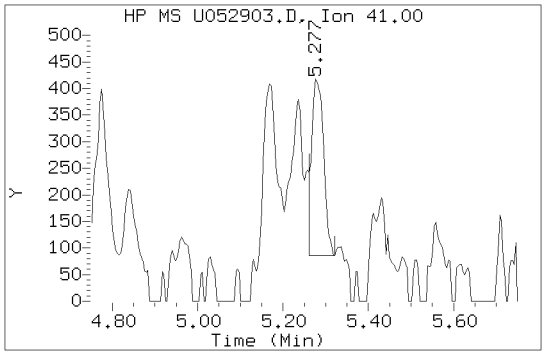
BEFORE

MASS
41
AREA
656
HEIGHT
332
06-Jun-2024
17:10
s
zaid



AFTER

MASS
41
AREA
656
HEIGHT
332
06-Jun-2024
17:10
s
zaid

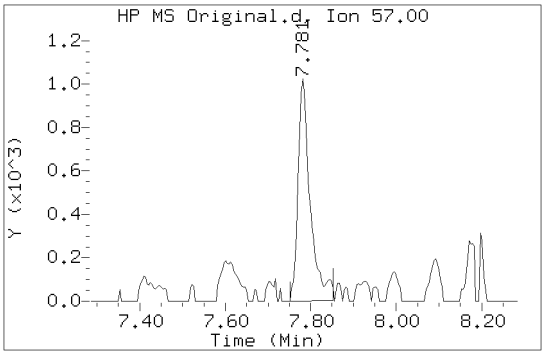


3,3-Dimethyl-1-butanol (624-95-3)

Reason Code:

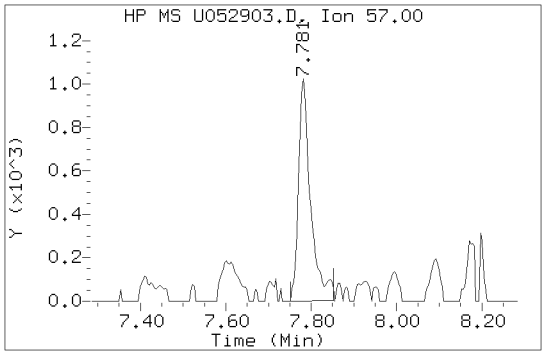
BEFORE

MASS
57
AREA
2051
HEIGHT
1022
06-Jun-2024
17:10
s
zaid



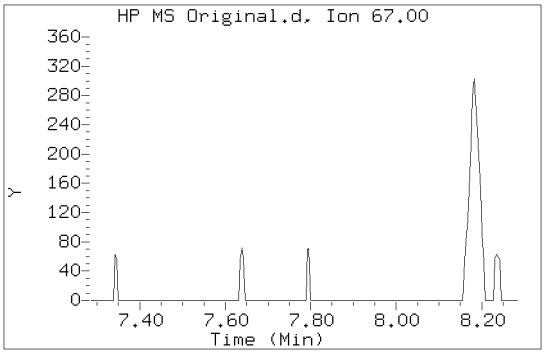
AFTER

MASS
57
AREA
2051
HEIGHT
1022
06-Jun-2024
17:10
s
zaid



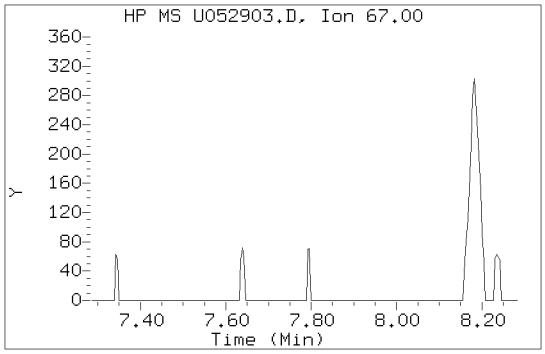
BEFORE

MASS
67
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



AFTER

MASS
67
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



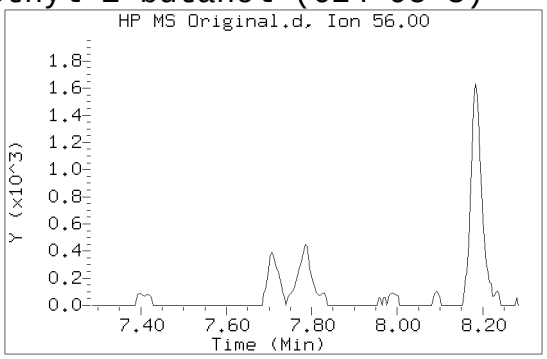
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052903.D
Inj Date : 29-MAY-2024 11:00
InstruID : VOA9.i
LabSampID : VSTD00.5

3,3-Dimethyl-1-butanol (624-95-3)

Reason Code:

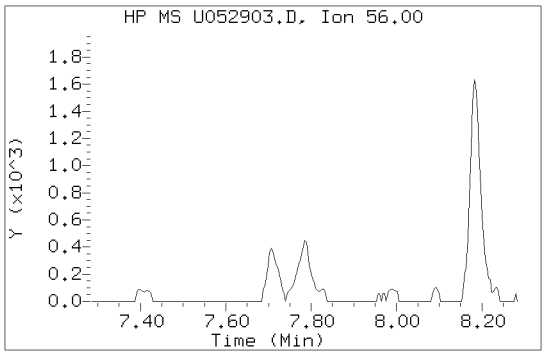
BEFORE

MASS
56
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



AFTER

MASS
56
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid

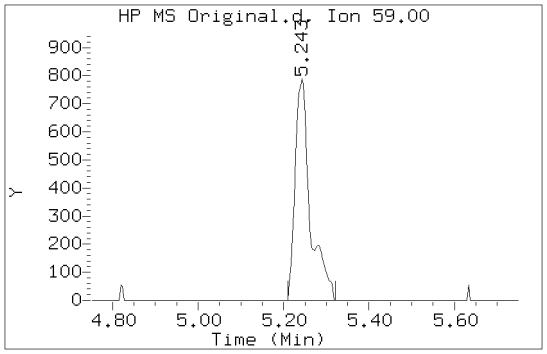


tert-Amyl alcohol (75-85-4)

Reason Code:

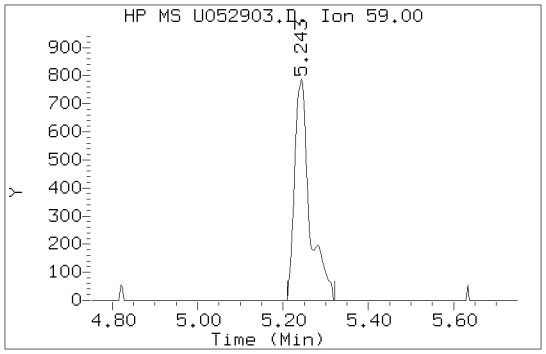
BEFORE

MASS
59
AREA
1972
HEIGHT
789
06-Jun-2024
17:10
s
zaid



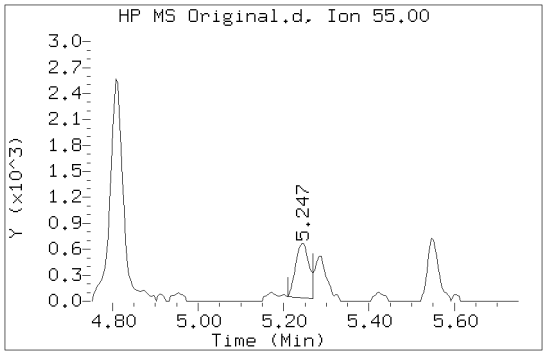
AFTER

MASS
59
AREA
1972
HEIGHT
789
06-Jun-2024
17:10
s
zaid



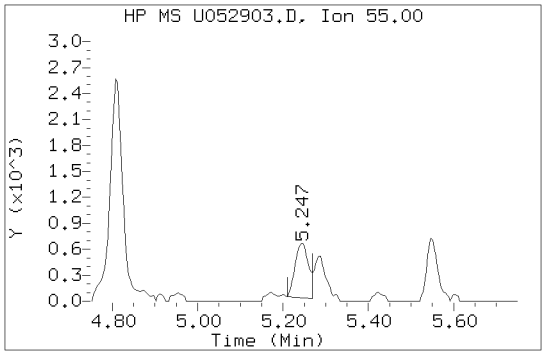
BEFORE

MASS
55
AREA
1431
HEIGHT
633
06-Jun-2024
17:10
s
zaid



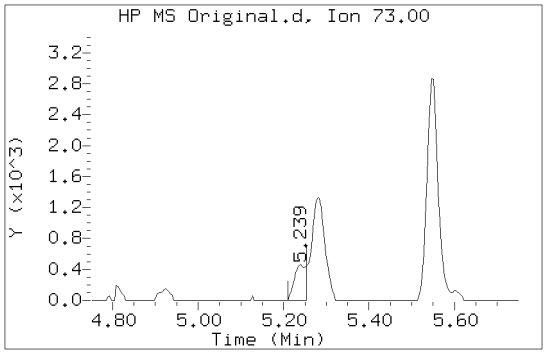
AFTER

MASS
55
AREA
1431
HEIGHT
633
06-Jun-2024
17:10
s
zaid



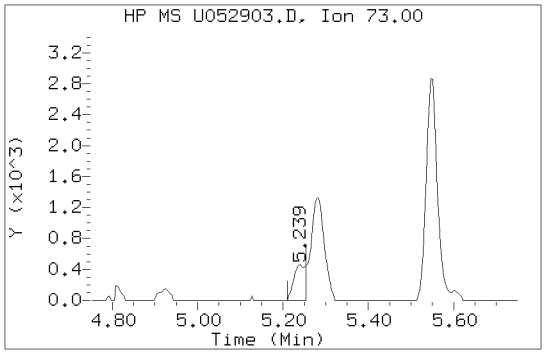
BEFORE

MASS
73
AREA
904
HEIGHT
462
06-Jun-2024
17:10
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zaid



AFTER

MASS
73
AREA
904
HEIGHT
462
06-Jun-2024
17:10
s
zaid



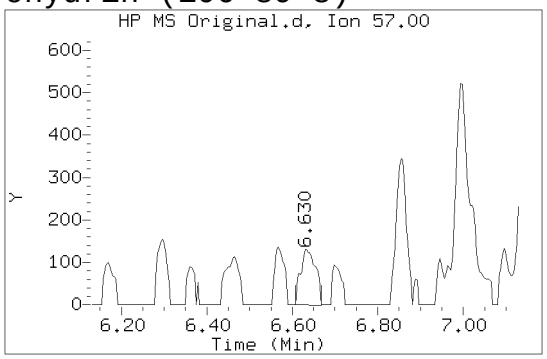
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052903.D
Inj Date : 29-MAY-2024 11:00
InstruID : VOA9.i
LabSampID : VSTD00.5

Epichlorohydrin (106-89-8)

Reason Code:

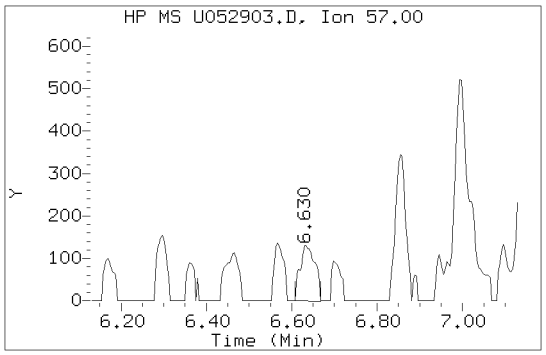
BEFORE

MASS
57
AREA
323
HEIGHT
131
06-Jun-2024
17:10
s
zaid



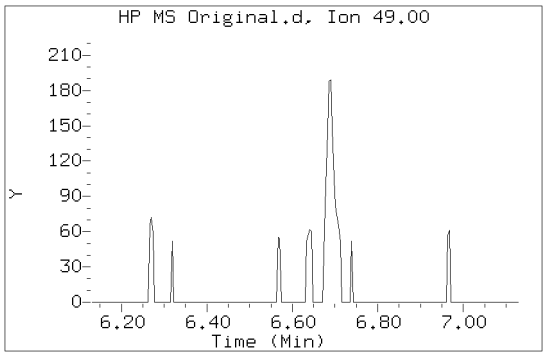
AFTER

MASS
57
AREA
323
HEIGHT
131
06-Jun-2024
17:10
s
zaid



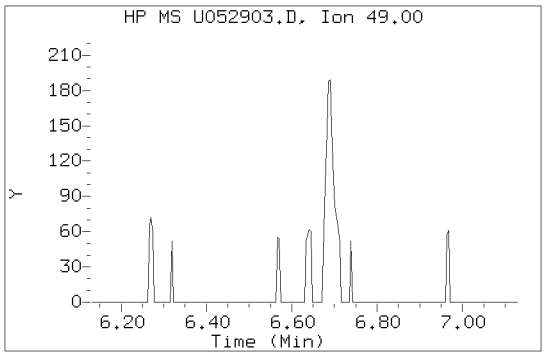
BEFORE

MASS
49
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



AFTER

MASS
49
AREA
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HEIGHT
0
06-Jun-2024
17:10
s
zaid

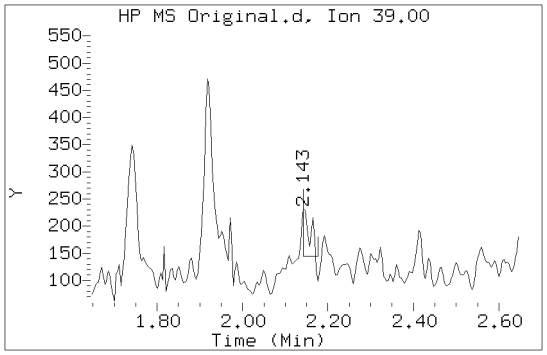


Isoprene (78-79-5)

Reason Code:

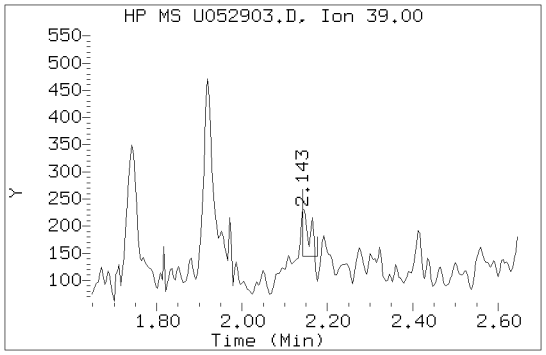
BEFORE

MASS
39
AREA
81
HEIGHT
87
06-Jun-2024
17:10
s
zaid



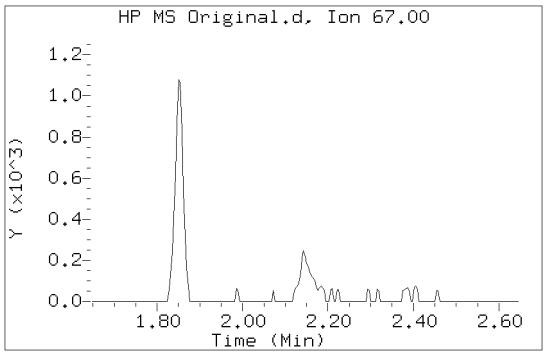
AFTER

MASS
39
AREA
81
HEIGHT
87
06-Jun-2024
17:10
s
zaid



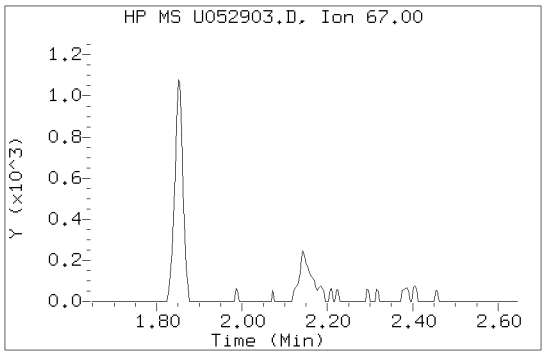
BEFORE

MASS
67
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



AFTER

MASS
67
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



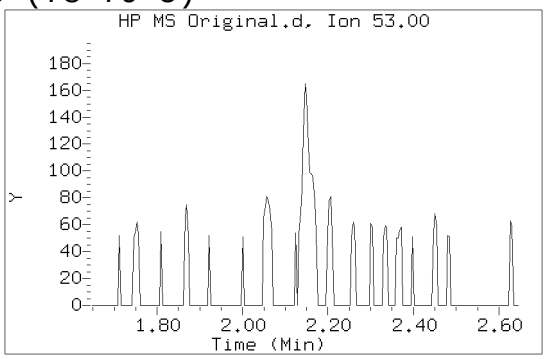
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052903.D
Inj Date : 29-MAY-2024 11:00
InstruID : VOA9.i
LabSampID : VSTD00.5

Isoprene (78-79-5)

Reason Code:

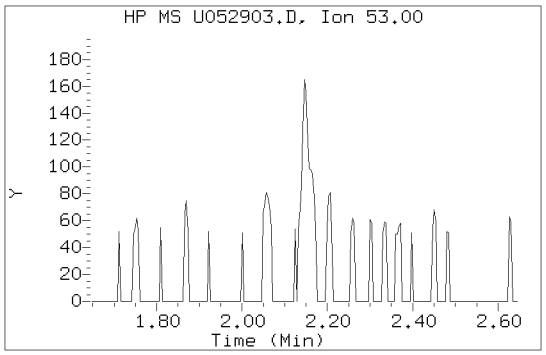
BEFORE

MASS
53
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



AFTER

MASS
53
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid

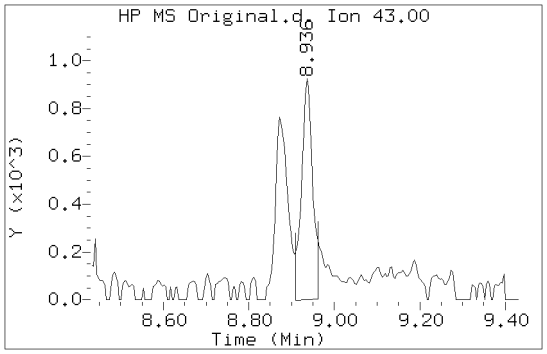


n-Amyl acetate (628-63-7)

Reason Code:

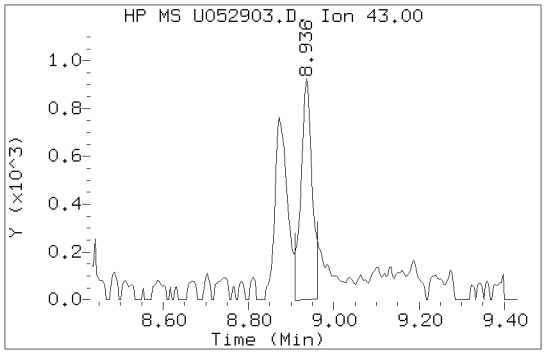
BEFORE

MASS
43
AREA
1727
HEIGHT
923
06-Jun-2024
17:10
s
zaid



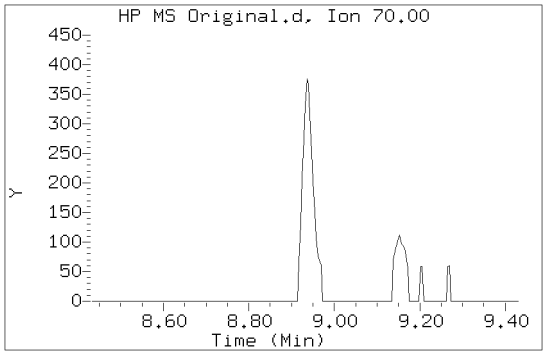
AFTER

MASS
43
AREA
1727
HEIGHT
923
06-Jun-2024
17:10
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zaid



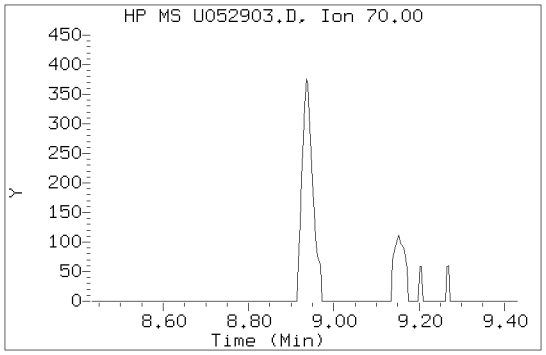
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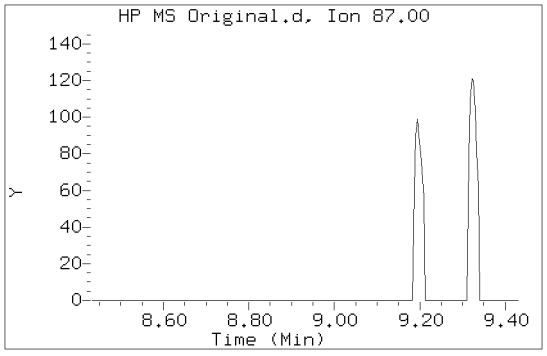
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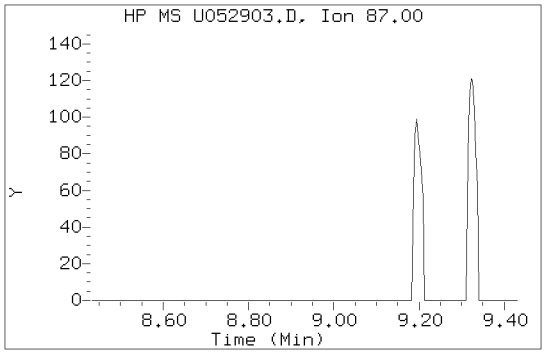
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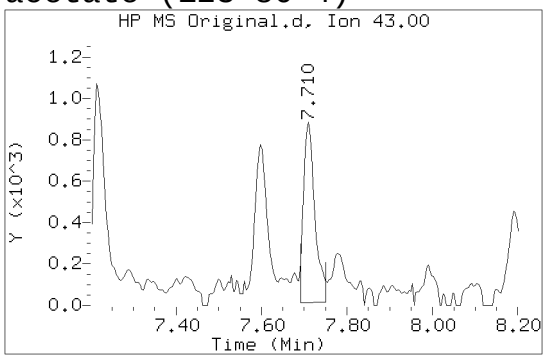
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Inj Date : 29-MAY-2024 11:00
InstruID : VOA9.i
LabSampID : VSTD00.5

n-Butyl acetate (123-86-4)

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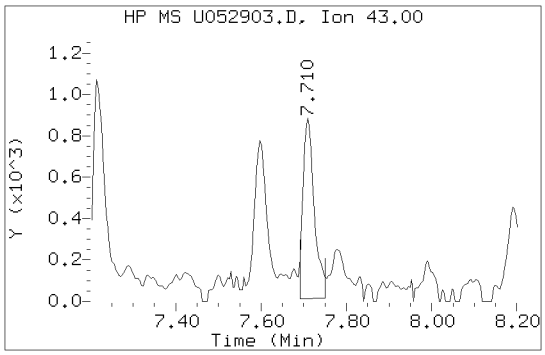
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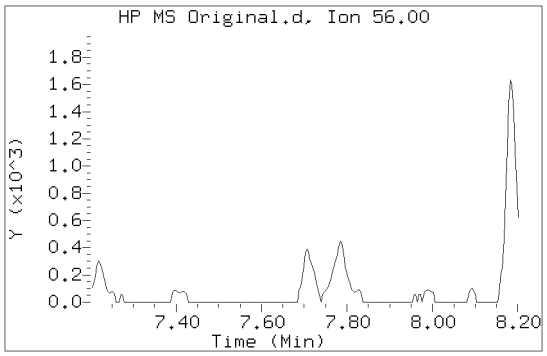
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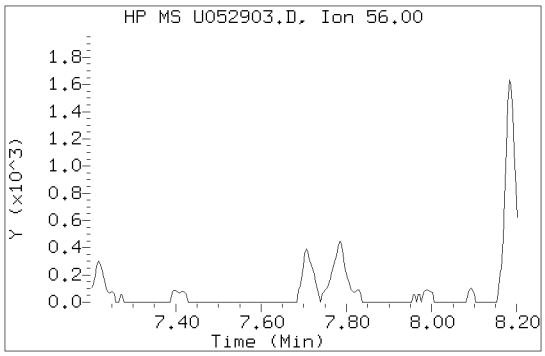
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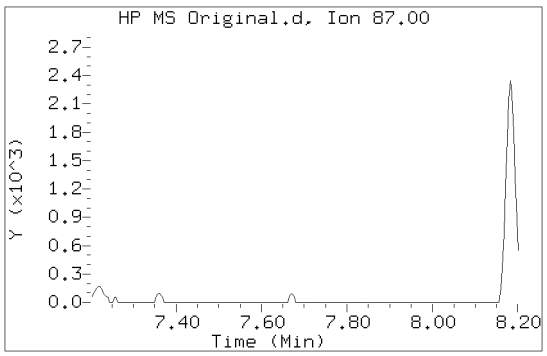
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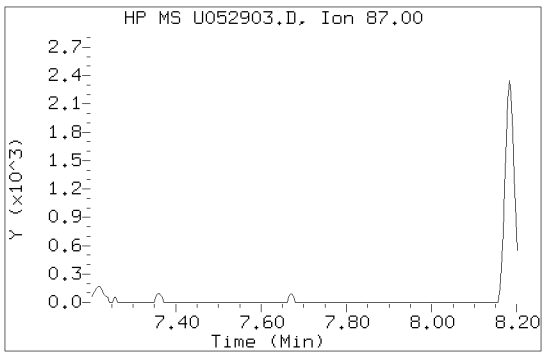
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AFTER

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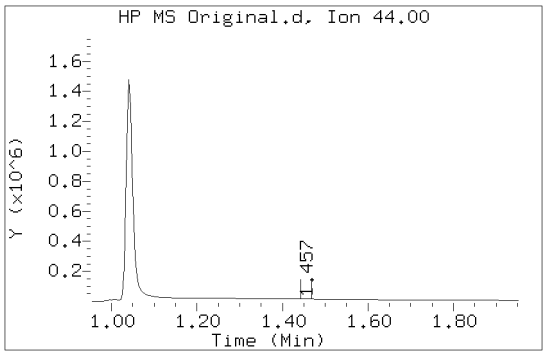


Acetaldehyde (75-07-0)

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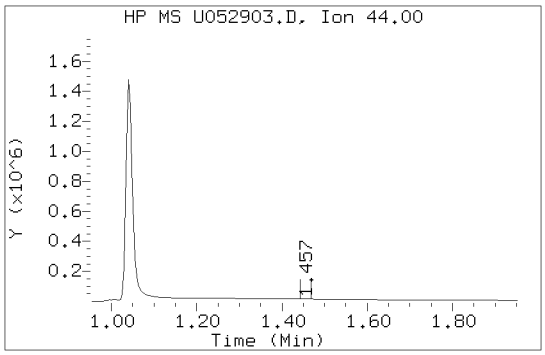
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AFTER

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zaid

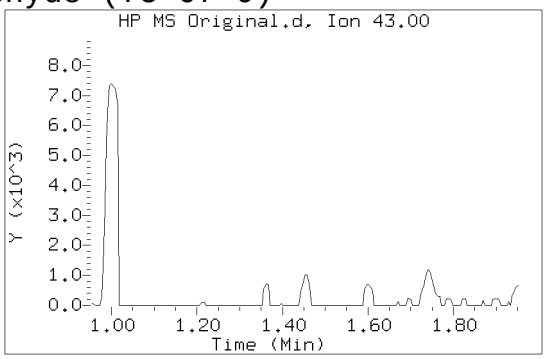


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LabSampID : VSTD00.5

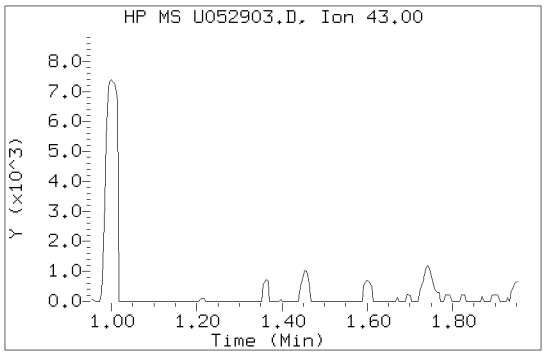
Acetaldehyde (75-07-0)

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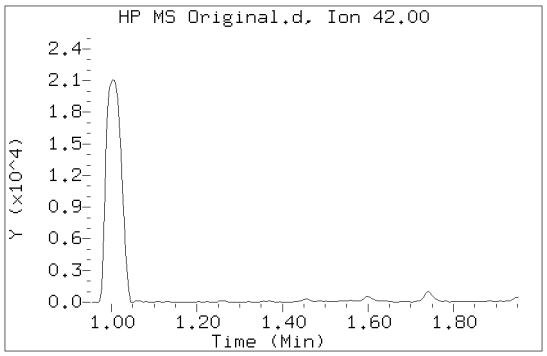
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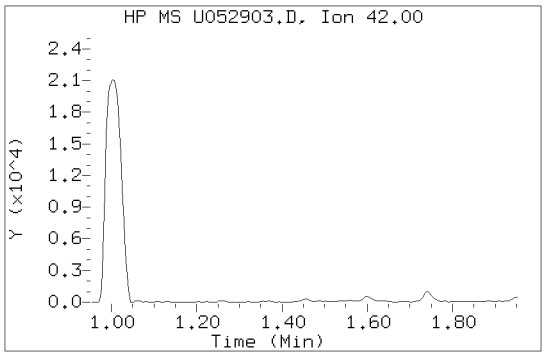
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BEFORE
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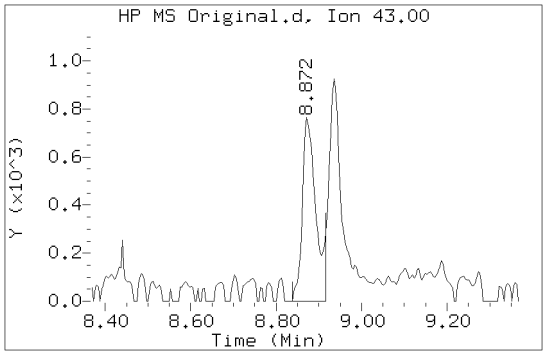
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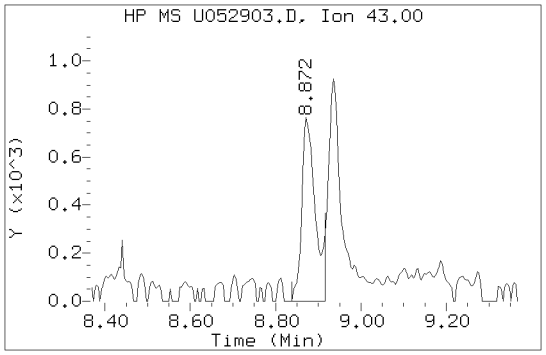
Methyl Amyl Ketone (110-43-0)

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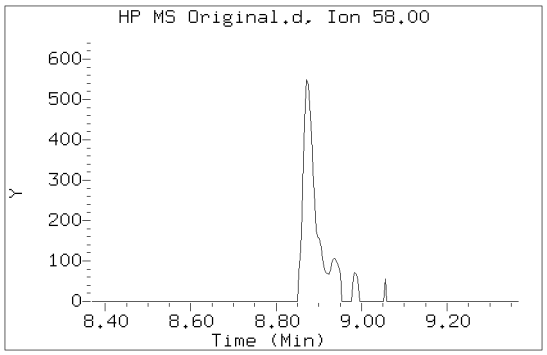
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06-Jun-2024
17:10
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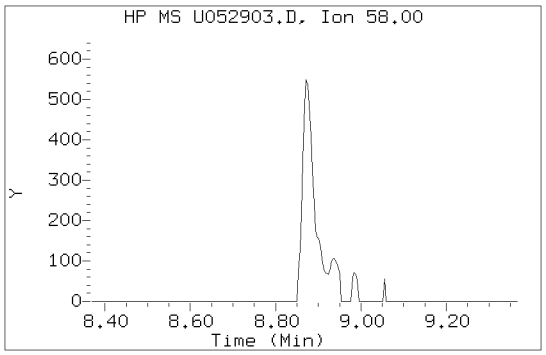
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764
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17:10
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zaid



BEFORE
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58
AREA
0
HEIGHT
0
06-Jun-2024
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zaid



AFTER
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HEIGHT
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06-Jun-2024
17:10
s
zaid



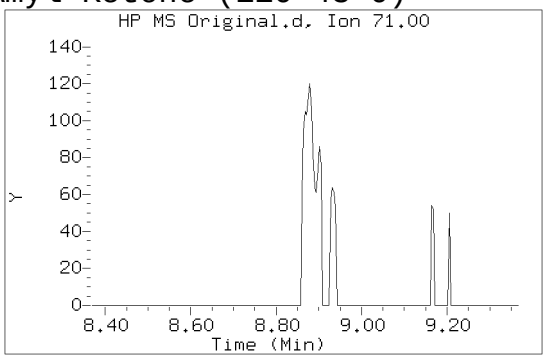
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Inj Date : 29-MAY-2024 11:00
InstruID : VOA9.i
LabSampID : VSTD00.5

Methyl Amyl Ketone (110-43-0)

Reason Code:

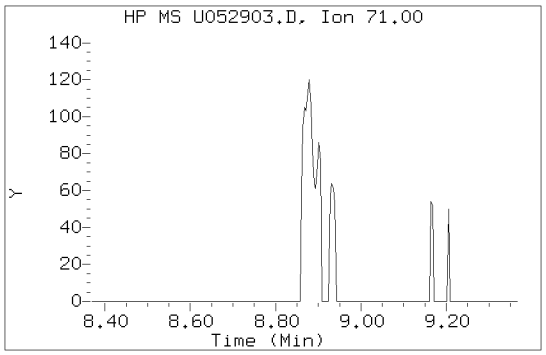
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AFTER

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06-Jun-2024
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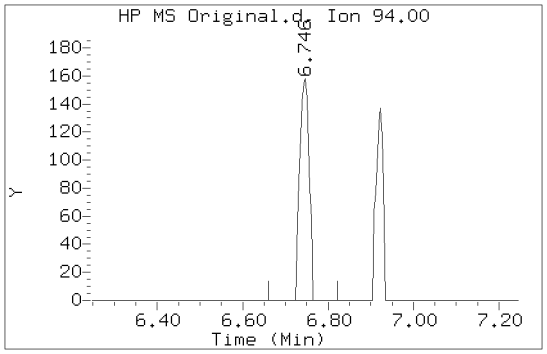


Dimethyl Disulfide (624-92-0)

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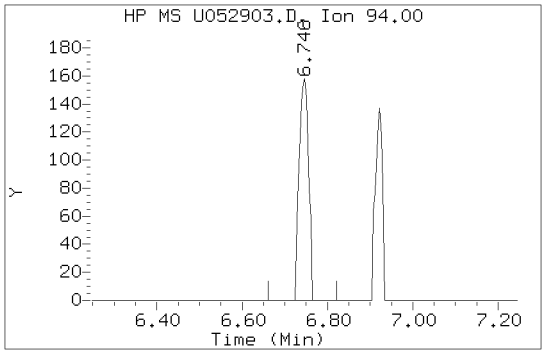
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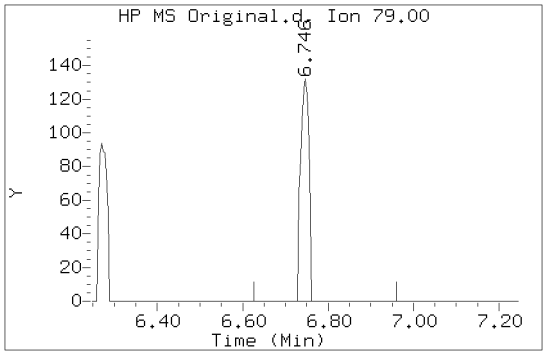
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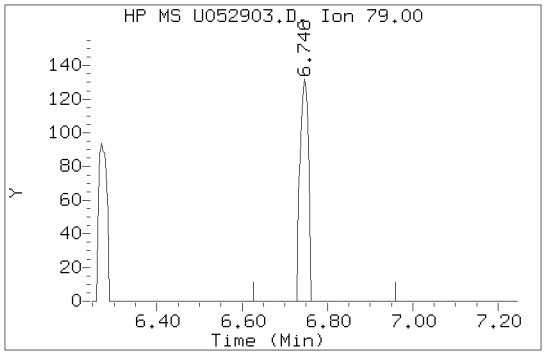
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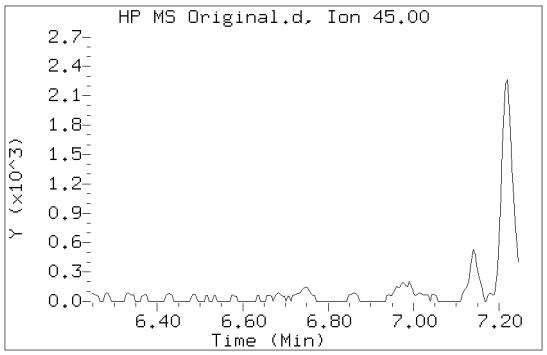
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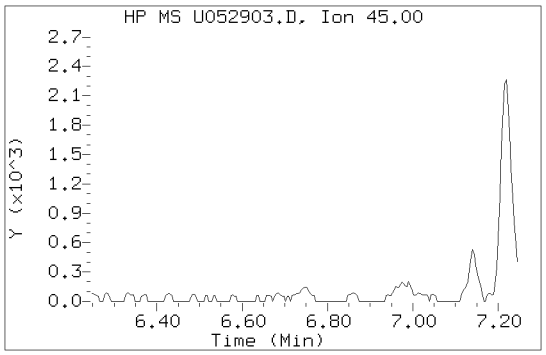
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AFTER

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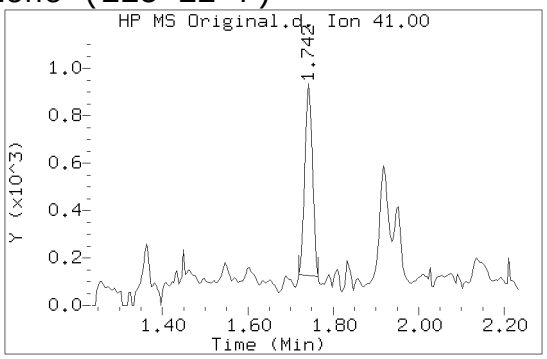


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InstruID : VOA9.i
LabSampID : VSTD00.5

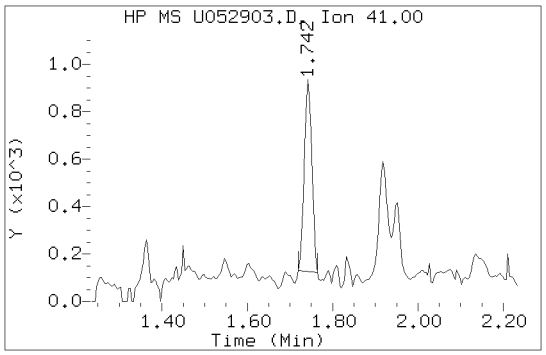
Isobutylene (115-11-7)

Reason Code:

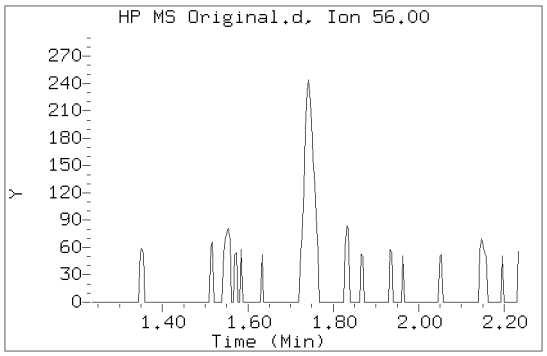
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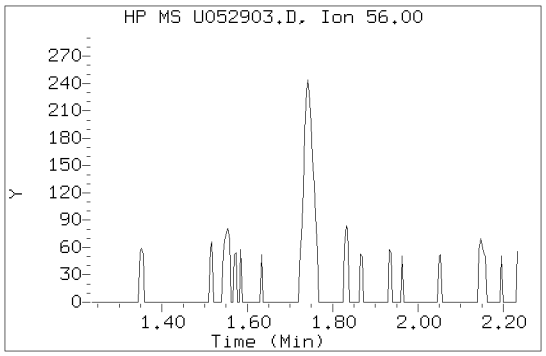
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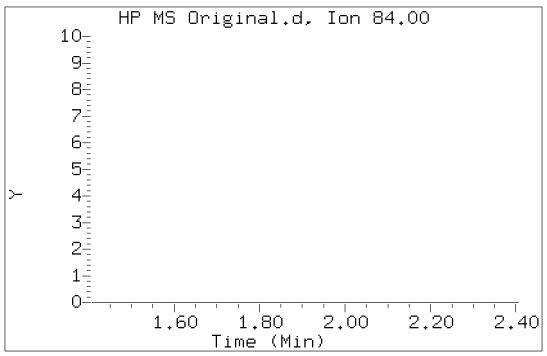
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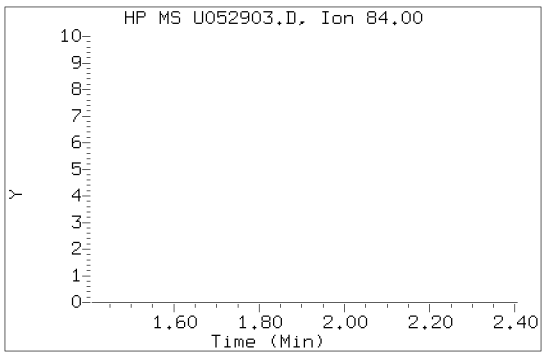
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BEFORE
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06-Jun-2024
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AFTER
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06-Jun-2024
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zaid



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052904.D Page 1
Report Date: 07-Jun-2024 10:54

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052904.D
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Inj Date : 29-MAY-2024 11:22
Operator : FT Inst ID: VOA9.i
Smp Info : VSTD001;VSTD001;1;3
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240529.b\8260C.m
Meth Date : 07-Jun-2024 10:14 r.patel Quant Type: ISTD
Cal Date : 29-MAY-2024 11:22 Cal File: U052904.D
Als bottle: 4 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14

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	4.815	4.811	(1.000)	286775	50.0000	
2	Dichlorodifluoromethane	85	1.167	1.156	(0.243)	857	1.00000	0.80(M)
3	Chloromethane	50	1.302	1.288	(0.271)	8687	1.00000	1.57
4	Propionitrile	54	4.346	4.339	(0.903)	4715	10.0000	8.30(a)
5	Vinyl Chloride	62	1.381	1.366	(0.287)	2181	1.00000	1.00(M)
6	Bromomethane	94	1.621	1.595	(0.337)	2361	1.00000	0.56
7	Chloroethane	64	1.703	1.681	(0.354)	2279	1.00000	1.23(M)
8	Trichlorofluoromethane	101	1.898	1.884	(0.394)	2194	1.00000	0.85
9	Acrolein	56	2.266	2.259	(0.471)	625	2.00000	3.24(aM)
10	Acetone	43	2.416	2.405	(0.502)	4580	2.00000	3.55
11	1,1-Dichloroethene	96	2.333	2.322	(0.485)	1965	1.00000	1.03
12	Isobutyl Alcohol	43	5.287	5.284	(1.098)	8488	20.0000	11.97(a)
13	Acetonitrile	39	2.674	2.663	(0.555)	2763	10.0000	11.87(a)
14	Allyl Chloride	41	2.674	2.667	(0.555)	8034	1.00000	1.23(a)
15	Iodomethane	142	2.472	2.457	(0.513)	1102	2.00000	2.80(T)
16	Acrylonitrile	53	3.068	3.061	(0.637)	2714	2.00000	2.30
17	Methylene Chloride	84	2.794	2.783	(0.580)	4998	1.00000	0.97
18	Methyl tert-butyl ether	73	3.083	3.076	(0.640)	7839	1.00000	1.00
19	Carbon Disulfide	76	2.524	2.510	(0.524)	10875	2.00000	2.05
20	trans-1,2-Dichloroethene	96	3.060	3.050	(0.636)	2346	1.00000	1.09
21	Vinyl Acetate	43	4.346	4.339	(0.903)	3220	2.00000	2.54(M)

22 1,1-Dichloroethane	63	3.518	3.507 (0.731)	5374	1.00000	1.30
23 Chloroprene	53	3.615	3.601 (0.751)	2818	1.00000	0.93(a)

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052904.D Page 2
Report Date: 07-Jun-2024 10:54

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	24 2-Butanone	43	4.275	4.260	(0.888)	3365	2.00000	2.62
	25 Methacrylonitrile	41	4.504	4.489	(0.935)	1920	1.00000	1.26(a)
	26 2,2-Dichloropropane	77	4.181	4.174	(0.868)	2514	1.00000	0.93
	27 cis-1,2-Dichloroethene	96	4.200	4.189	(0.872)	3136	1.00000	1.18
	28 Chloroform	83	4.575	4.568	(0.950)	4858	1.00000	1.18
	29 Bromochloromethane	128	4.474	4.463	(0.929)	1768	1.00000	1.72
$	30 Dibromofluoromethane	113	4.751	4.744	(0.987)	2993	1.00000	1.15
	31 1,1,1-Trichloroethane	97	4.744	4.736	(0.985)	2288	1.00000	0.79
	32 1,1-Dichloropropene	75	4.924	4.916	(0.887)	2974	1.00000	0.96
	33 1,2-Dichloroethane	62	5.178	5.171	(0.933)	4481	1.00000	2.00(M)
	34 Carbon Tetrachloride	117	4.909	4.905	(0.884)	2008	1.00000	0.83(M)
$	35 1,2-Dichloroethane-d4	65	5.100	5.093	(1.059)	4136	1.00000	2.29
*	36 1,4-Difluorobenzene	114	5.553	5.550	(1.000)	423873	50.0000	
	37 Benzene	78	5.141	5.134	(0.926)	11456	1.00000	1.14
	38 Trichloroethene	130	5.789	5.786	(1.043)	2675	1.00000	1.08(a)
	39 Bromodichloromethane	83	6.281	6.277	(1.131)	2854	1.00000	1.06(aM)
	40 Methyl Methacrylate	41	5.838	5.827	(1.213)	1060	1.00000	1.40(a)
	41 2-Chloroethylvinyl ether	63	6.580	6.573	(1.185)	1330	2.00000	4.79(M)
	42 1,2-Dichloropropane	63	6.011	6.007	(1.082)	3051	1.00000	1.15(aM)
	43 2-Nitropropane	43	6.509	6.506	(1.352)	456	1.00000	2.71(aM)
	44 Dibromomethane	93	6.119	6.116	(1.102)	1936	1.00000	1.26(a)
	45 4-Methyl-2-Pentanone	43	6.854	6.851	(0.837)	6605	2.00000	3.07(a)
	46 cis-1,3-Dichloropropene	75	6.693	6.690	(1.205)	3129	1.00000	1.72(a)
*	47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	373701	50.0000	
$	48 Toluene-d8	98	6.922	6.918	(0.846)	12775	1.00000	1.99(a)
	49 Ethyl Methacrylate	69	7.293	7.289	(1.313)	3966	1.00000	1.20(a)
	50 Toluene	91	6.982	6.978	(0.853)	12093	1.00000	1.19(a)
	51 trans-1,3-Dichloropropene	75	7.199	7.196	(1.296)	2284	1.00000	1.91(a)
	52 2-Hexanone	43	7.596	7.589	(0.928)	4192	2.00000	4.26(aM)
	53 1,1,2-Trichloroethane	83	7.356	7.353	(0.899)	2548	1.00000	1.07(a)
	54 1,3-Dichloropropane	76	7.499	7.499	(0.916)	5120	1.00000	1.23(a)
	55 Dibromochloromethane	129	7.694	7.690	(0.940)	1952	1.00000	1.80(a)
	56 Tetrachloroethene	164	7.454	7.454	(0.911)	1502	1.00000	0.84(a)
	57 1,2-Dibromoethane	107	7.784	7.784	(0.951)	2599	1.00000	1.16(a)
	58 1-Chlorohexane	55	8.185	8.196	(1.474)	4740	1.00000	1.73(a)
	59 Chlorobenzene	112	8.207	8.208	(1.003)	7640	1.00000	1.18(a)
	60 1,1,1,2-Tetrachloroethane	131	8.282	8.283	(1.012)	2072	1.00000	1.00(a)
	61 Ethylbenzene	106	8.305	8.305	(1.015)	3630	1.00000	1.20(a)
	62 m,p-Xylenes	106	8.410	8.406	(1.027)	13484	2.00000	2.61(a)
	63 o-Xylene	106	8.747	8.744	(1.069)	5882	1.00000	2.30(a)
	64 Styrene	104	8.762	8.759	(1.071)	6373	1.00000	1.03(a)
	66 Bromoform	173	8.920	8.916	(1.090)	1114	1.00000	2.30(aM)
	67 Isopropylbenzene	105	9.062	9.059	(1.107)	7651	1.00000	0.85(a)
	68 1,1,2,2-Tetrachloroethane	83	9.328	9.329	(0.917)	4229	1.00000	1.27(aM)
$	69 4-Bromofluorobenzene	95	9.193	9.190	(1.123)	5245	1.00000	1.92(a)
*	70 1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	199766	50.0000	
	71 1,2,3-Trichloropropane	75	9.362	9.362	(0.921)	3399	1.00000	1.09(aM)
	72 trans-1,4-Dichloro-2-butene	53	9.377	9.377	(1.146)	706	1.00000	1.10(a)
	73 n-Propylbenzene	91	9.411	9.411	(0.926)	9939	1.00000	0.92(a)
	74 Bromobenzene	156	9.317	9.317	(0.916)	3136	1.00000	1.14(a)
	75 1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	10157	1.00000	1.11(a)
	76 2-Chlorotoluene	91	9.482	9.482	(0.933)	8525	1.00000	0.85(a)

77 4-Chlorotoluene	91	9.576	9.576 (0.942)	7866	1.00000	1.01(a)
78 tert-Butylbenzene	119	9.834	9.835 (0.967)	4628	1.00000	0.76(aM)

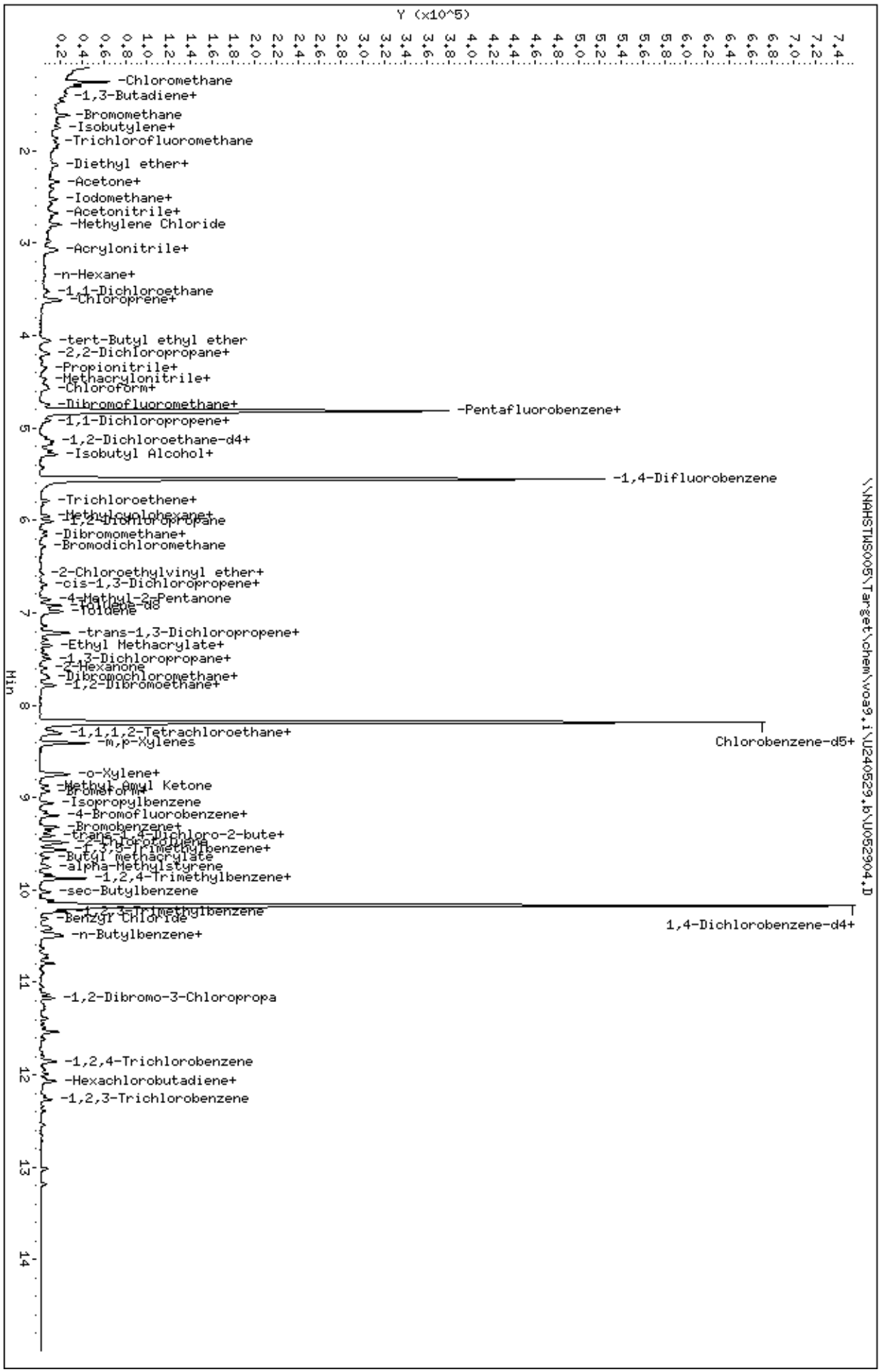
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Report Date: 07-Jun-2024 10:54

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
79	1,2,4-Trimethylbenzene	105	9.876	9.876	(0.971)	22742	1.00000	1.28(a)
81	sec-Butylbenzene	105	10.022	10.022	(0.986)	6120	1.00000	0.74(a)
82	p-Isopropyltoluene	119	10.145	10.146	(0.998)	5427	1.00000	0.75(a)
83	1,3-Dichlorobenzene	146	10.115	10.116	(0.995)	4916	1.00000	1.05(aM)
84	1,4-Dichlorobenzene	146	10.190	10.191	(1.002)	5838	1.00000	1.13(a)
86	Benzyl Chloride	91	10.310	10.311	(1.260)	4616	1.00000	2.71(a)
87	n-Butylbenzene	91	10.490	10.491	(1.032)	7427	1.00000	1.40(a)
88	1,2-Dichlorobenzene	146	10.505	10.502	(1.033)	5651	1.00000	1.17(aM)
89	1,2-Dibromo-3-Chloropropane	155	11.165	11.165	(1.098)	485	1.00000	2.01(aM)
90	1,2,4-Trichlorobenzene	180	11.859	11.855	(1.166)	2991	1.00000	0.98(a)
91	Hexachlorobutadiene	225	11.997	11.998	(1.180)	1041	1.00000	0.85(a)
92	Naphthalene	128	12.069	12.065	(1.187)	11206	1.00000	1.37(a)
93	1,2,3-Trichlorobenzene	180	12.267	12.268	(1.206)	2793	1.00000	0.99(a)
146	Methyl acetate	43	2.719	2.708	(0.565)	3707	1.00000	1.88(a)
138	Freon TF	101	2.337	2.326	(0.485)	1010	1.00000	1.06(a)
141	Cyclohexane	56	4.815	4.778	(1.000)	6773	1.00000	1.32(a)
147	Methylcyclohexane	55	5.951	5.944	(1.072)	5794	1.00000	1.70(a)
135	1,4-Dioxane	88	6.172	6.168	(1.282)	1066	20.0000	20.80
132	n-Butanol	56	5.834	5.827	(1.212)	1735	20.0000	22.45(a)
136	n-Hexane	57	3.342	3.331	(0.694)	1300	1.00000	1.30(a)
139	Diethyl ether	59	2.150	2.139	(0.446)	2295	1.00000	0.92(a)
148	Tert-butyl alcohol	59	2.978	2.975	(0.619)	6404	20.0000	13.18
149	Isopropyl alcohol	45	2.573	2.570	(0.534)	4800	20.0000	16.06
152	Amyl alcohol	42	7.405	7.398	(0.905)	1733	20.0000	40.16
156	Diisopropyl ether	45	3.626	3.619	(0.753)	9215	1.00000	1.25(Ta)
162	Butyl acrylate	55	8.736	8.733	(1.067)	4624	1.00000	2.01(a)
187	n-Amyl acetate	43	8.935	8.931	(1.092)	4502	1.00000	1.10(aM)
164	Dicyclopentadiene	66	10.198	10.198	(1.003)	12080	1.00000	1.17(a)
166	1,2,3-Trimethylbenzene	105	10.232	10.232	(1.006)	11411	1.00000	2.35(a)
167	Ethanol	45	2.086	2.086	(0.433)	850	20.0000	10.85
172	tert-Butyl formate	59	5.246	5.250	(1.090)	5549	2.00000	2.44(a)
173	3,3-Dimethyl-1-butanol	57	7.784	7.784	(0.951)	6038	20.0000	23.21(M)
174	tert-Amyl methyl ether	73	5.287	5.284	(1.098)	8204	1.00000	1.22(a)
175	tert-Butyl ethyl ether	59	4.054	4.047	(0.842)	8532	1.00000	1.30(a)
176	tert-Amyl alcohol	59	5.246	5.250	(1.090)	5549	20.0000	24.21
151	4-Methyl-2-pentanol	45	7.218	7.222	(1.300)	14569	20.0000	34.00
140	1,3-Butadiene	54	1.407	1.396	(0.292)	1054	1.00000	0.99(a)
182	Epichlorohydrin	57	6.633	6.630	(1.194)	718	4.00000	6.35(M)
M 94	1,2-Dichloroethylene (total)	96				5482	2.00000	(a)
130	Ethyl Acetate	43	4.346	4.339	(0.903)	3313	1.00000	1.25(aM)
131	Methyl Acrylate	55	4.384	4.365	(0.910)	3957	1.00000	1.32(aM)
189	n-Butyl acetate	43	7.705	7.702	(0.941)	4706	1.00000	1.19(aM)
134	Cyclohexanone	55	9.152	9.152	(0.900)	2910	20.0000	36.22(a)
185	Isoprene	39	2.165	2.146	(0.450)	375	1.00000	1.48(aM)
188	Isopropyl acetate	43	5.287	5.284	(0.952)	8488	1.00000	1.20(a)
150	Allyl alcohol	57	3.342	3.331	(0.694)	1300	20.0000	26.16
194	Acetaldehyde	44	1.467	1.453	(0.305)	3248	4.00000	6.37(M)
195	Methyl Amyl Ketone	43	8.871	8.868	(1.084)	5091	1.00000	1.11(a)
200	Dimethyl Disulfide	94	6.745	6.746	(0.824)	895	1.00000	5.44(M)
202	Isobutylene	41	1.752	1.734	(0.364)	1518	1.00000	1.06(aM)
133	Ethyl Acrylate	55	5.951	5.944	(1.236)	5916	1.00000	1.66(aM)
163	Butyl methacrylate	41	9.651	9.647	(0.949)	2085	1.00000	0.90(aM)

159 Propylene oxide	43	2.206	2.191 (0.458)	1105	2.00000	5.74
203 2-Ethylhexyl Acrylate	55	12.042	12.039 (1.184)	2167	1.00000	2.24(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: VSTD001
Sample Info: VSTD001;VSTD001;1;3
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Column phase: DB624

Instrument: VOA9,i
Operator: FT
Column diameter: 0.18

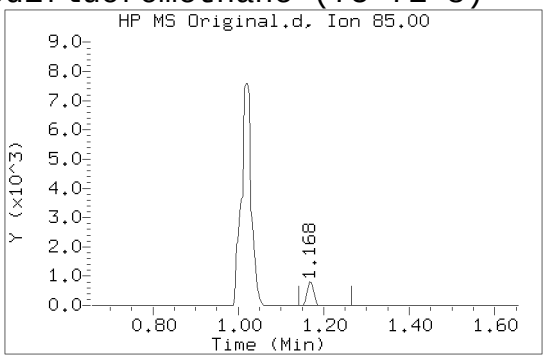
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LabSampID : VSTD001

Dichlorodifluoromethane (75-71-8)

Reason Code:

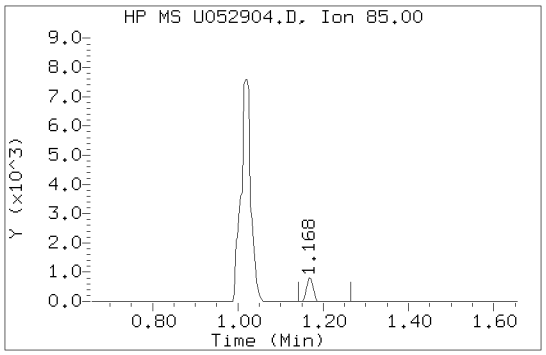
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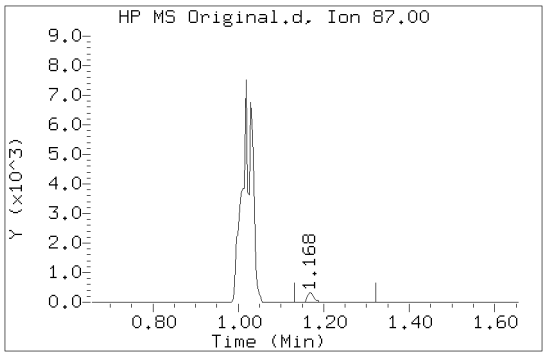
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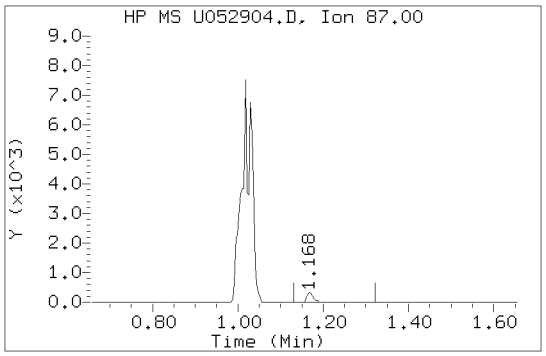
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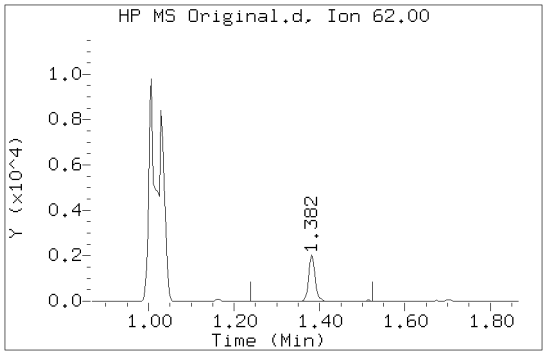


Vinyl Chloride (75-01-4)

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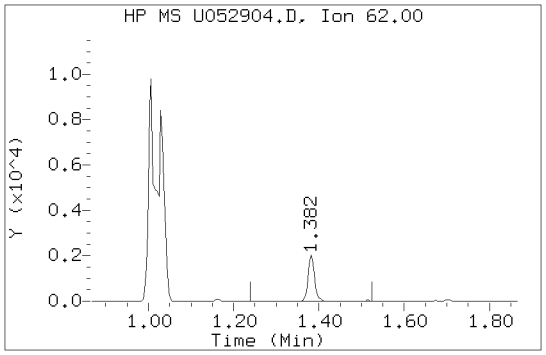
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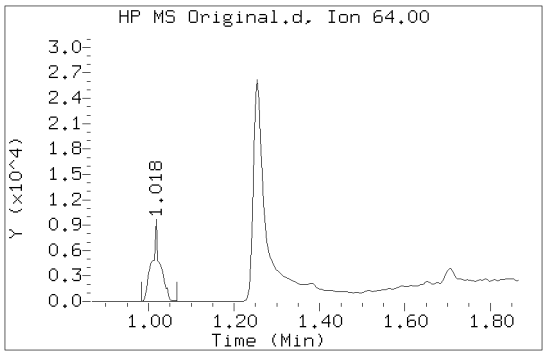
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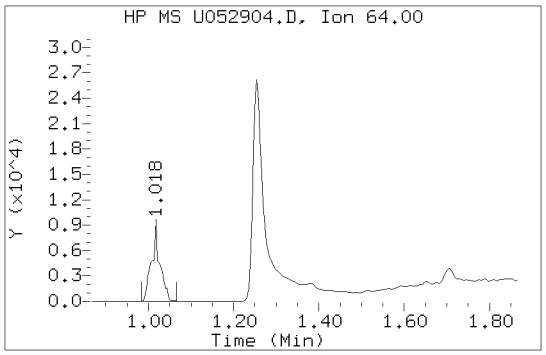
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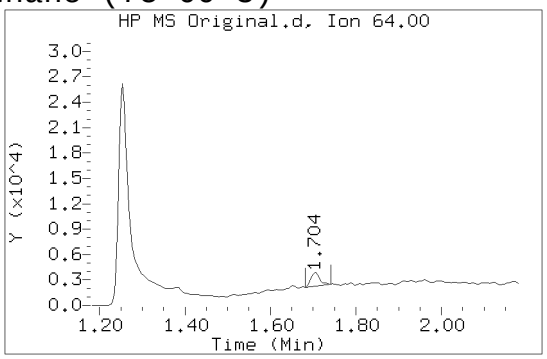
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InstruID : VOA9.i
LabSampID : VSTD001

Chloroethane (75-00-3)

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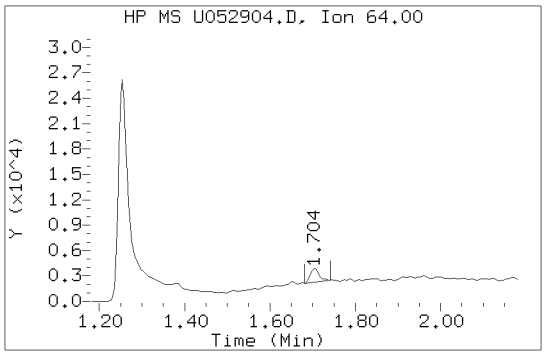
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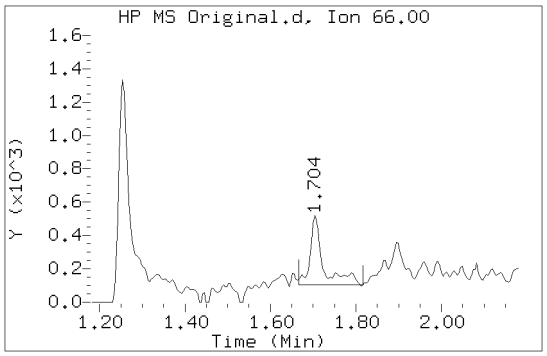
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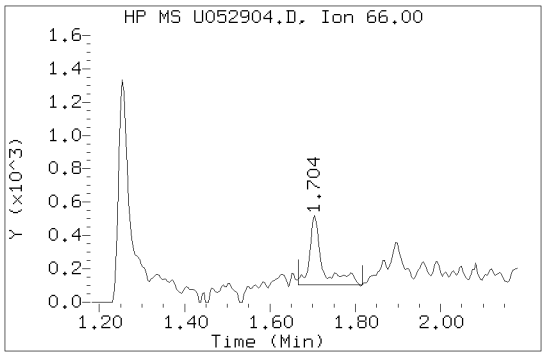
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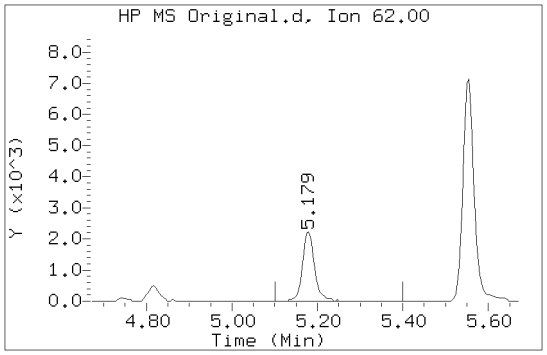


1,2-Dichloroethane (107-06-2)

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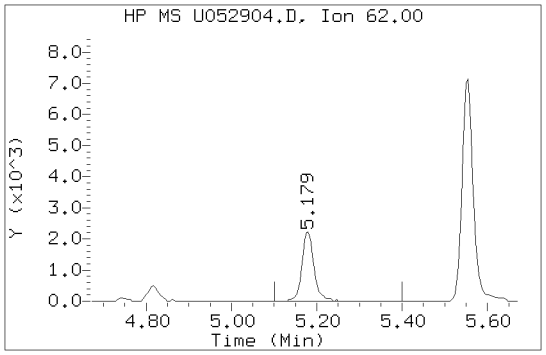
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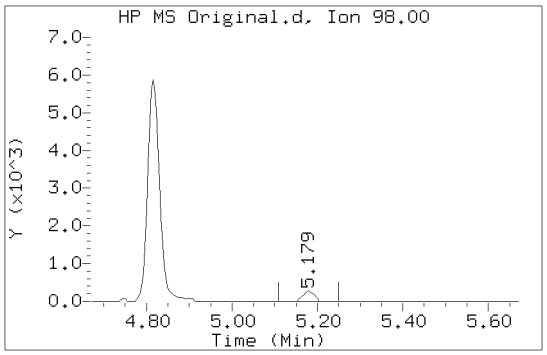
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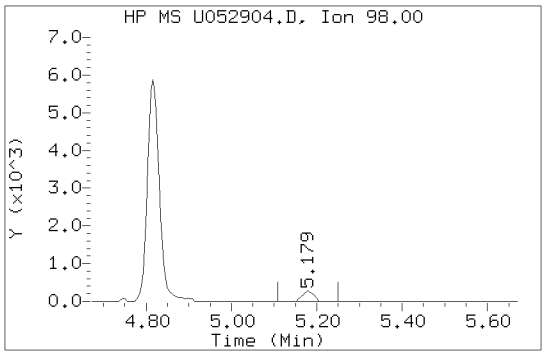
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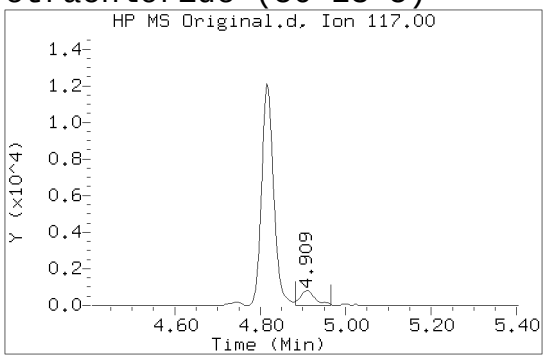


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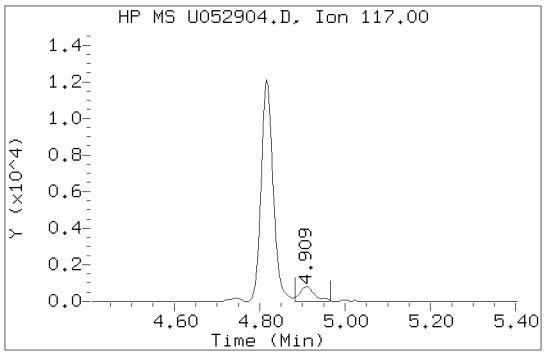
Carbon Tetrachloride (56-23-5)

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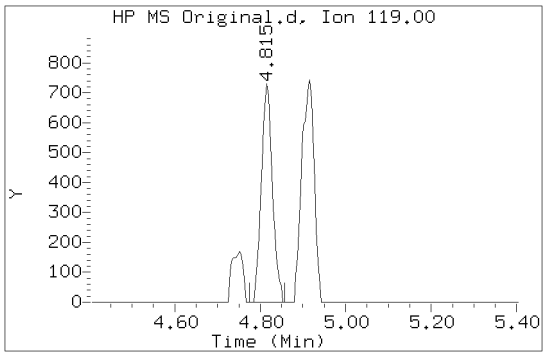
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AREA
2008
HEIGHT
821
06-Jun-2024
17:10
s
zaid



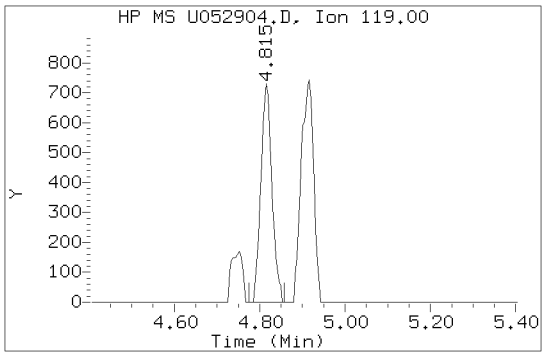
AFTER
MASS
117
AREA
2008
HEIGHT
821
06-Jun-2024
17:10
s
zaid



BEFORE
MASS
119
AREA
1316
HEIGHT
730
06-Jun-2024
17:10
s
zaid



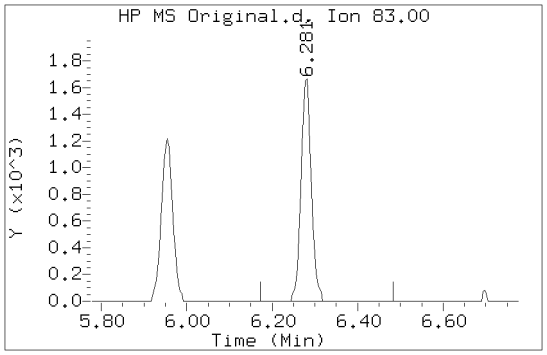
AFTER
MASS
119
AREA
1316
HEIGHT
730
06-Jun-2024
17:10
s
zaid



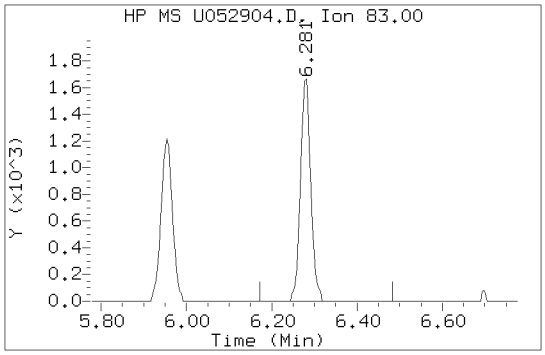
Bromodichloromethane (75-27-4)

Reason Code:

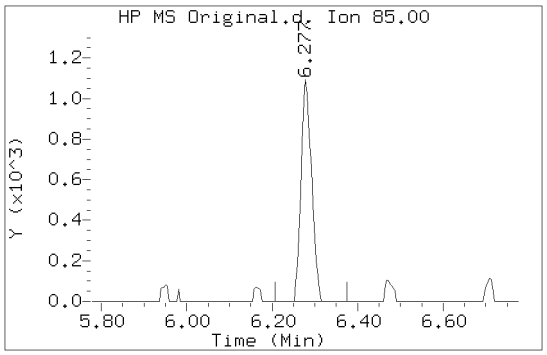
BEFORE
MASS
83
AREA
2854
HEIGHT
1665
06-Jun-2024
17:10
s
zaid



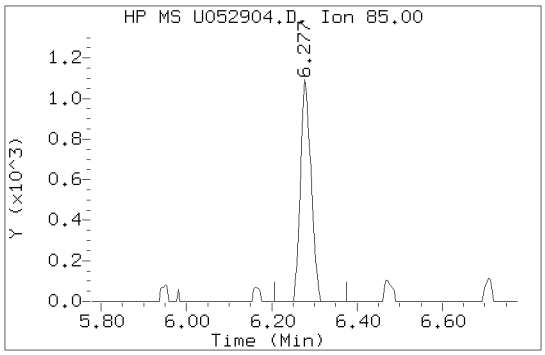
AFTER
MASS
83
AREA
2854
HEIGHT
1665
06-Jun-2024
17:10
s
zaid



BEFORE
MASS
85
AREA
1914
HEIGHT
1093
06-Jun-2024
17:10
s
zaid



AFTER
MASS
85
AREA
1914
HEIGHT
1093
06-Jun-2024
17:10
s
zaid



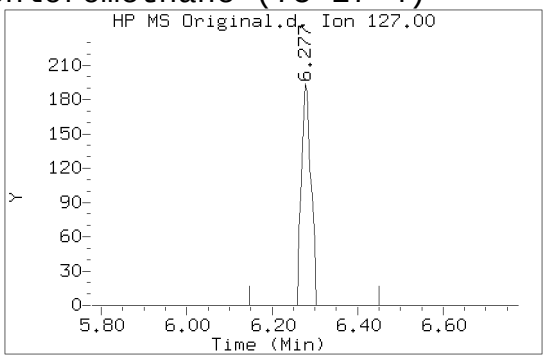
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052904.D
Inj Date : 29-MAY-2024 11:22
InstruID : VOA9.i
LabSampID : VSTD001

Bromodichloromethane (75-27-4)

Reason Code:

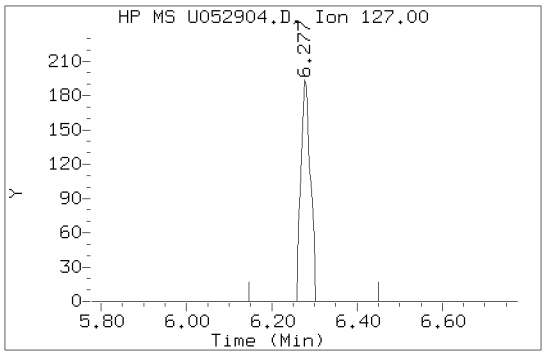
BEFORE

MASS
127
AREA
305
HEIGHT
194
06-Jun-2024
17:10
s
zaid



AFTER

MASS
127
AREA
305
HEIGHT
194
06-Jun-2024
17:10
s
zaid

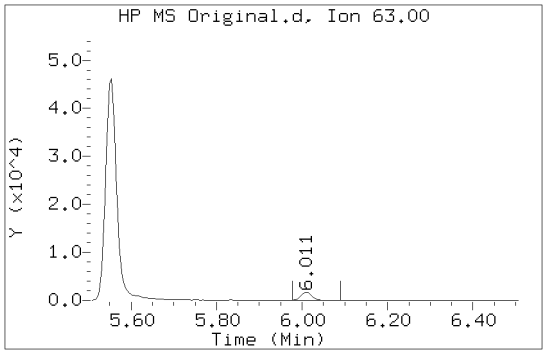


1,2-Dichloropropane (78-87-5)

Reason Code:

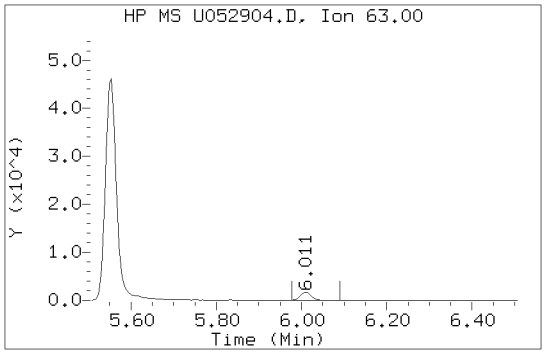
BEFORE

MASS
63
AREA
3051
HEIGHT
1657
06-Jun-2024
17:10
s
zaid



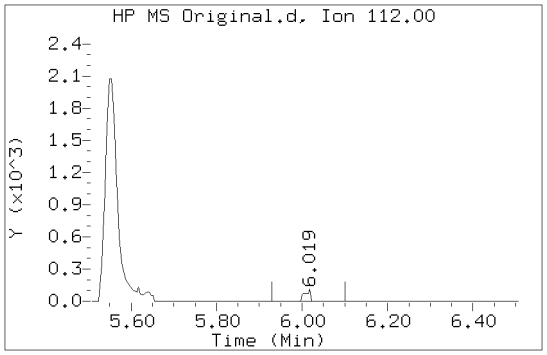
AFTER

MASS
63
AREA
3051
HEIGHT
1657
06-Jun-2024
17:10
s
zaid



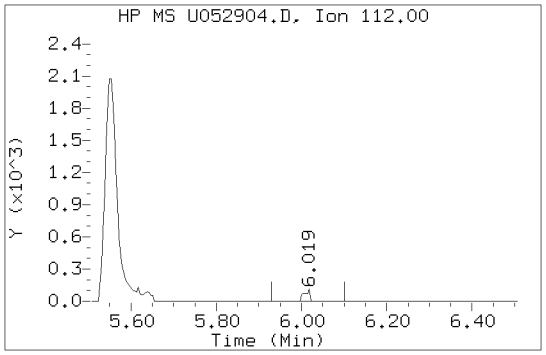
BEFORE

MASS
112
AREA
102
HEIGHT
114
06-Jun-2024
17:10
s
zaid



AFTER

MASS
112
AREA
102
HEIGHT
114
06-Jun-2024
17:10
s
zaid

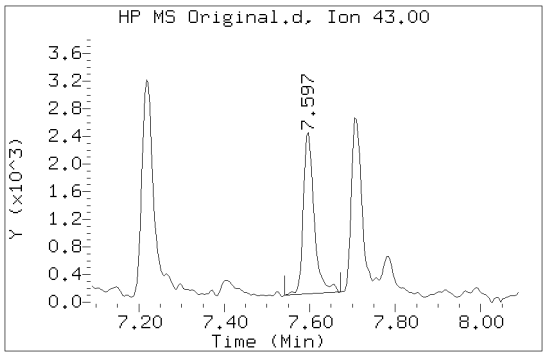


2-Hexanone (591-78-6)

Reason Code:

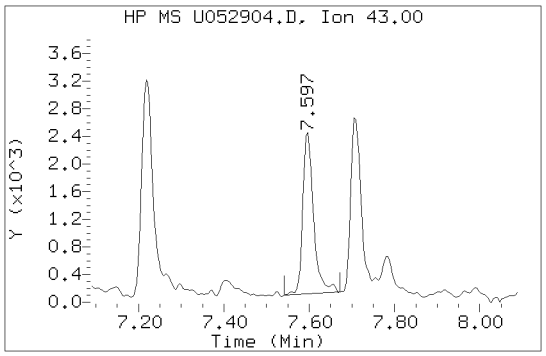
BEFORE

MASS
43
AREA
4192
HEIGHT
2333
06-Jun-2024
17:10
s
zaid



AFTER

MASS
43
AREA
4192
HEIGHT
2333
06-Jun-2024
17:10
s
zaid



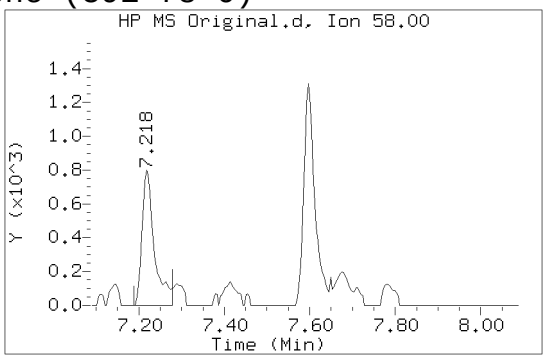
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052904.D
Inj Date : 29-MAY-2024 11:22
InstruID : VOA9.i
LabSampID : VSTD001

2-Hexanone (591-78-6)

Reason Code:

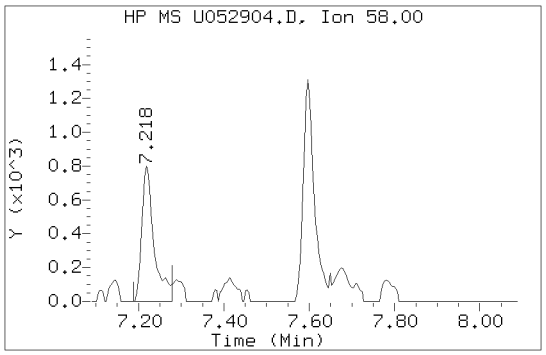
BEFORE

MASS
58
AREA
1605
HEIGHT
799
06-Jun-2024
17:10
s
zaid



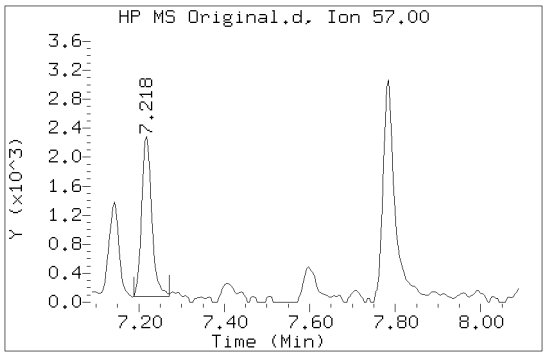
AFTER

MASS
58
AREA
1605
HEIGHT
799
06-Jun-2024
17:10
s
zaid



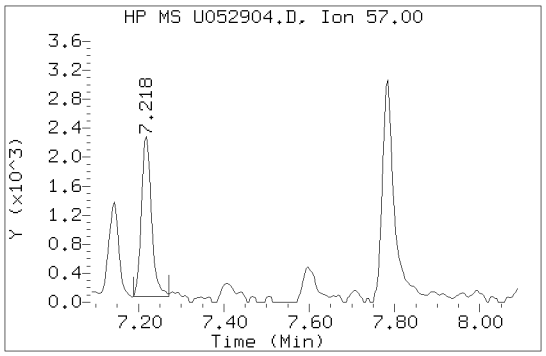
BEFORE

MASS
57
AREA
3635
HEIGHT
2212
06-Jun-2024
17:10
s
zaid



AFTER

MASS
57
AREA
3635
HEIGHT
2212
06-Jun-2024
17:10
s
zaid

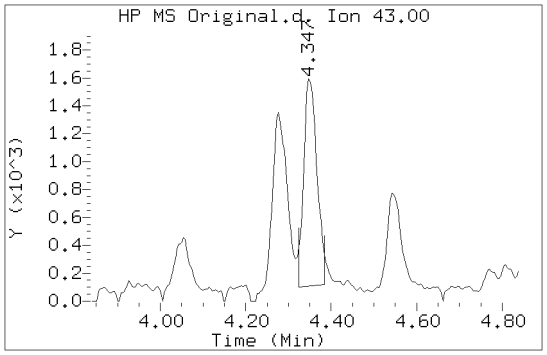


Vinyl Acetate (108-05-4)

Reason Code:

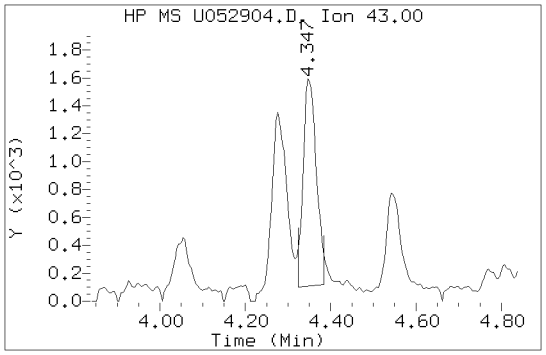
BEFORE

MASS
43
AREA
3220
HEIGHT
1483
06-Jun-2024
17:10
s
zaid



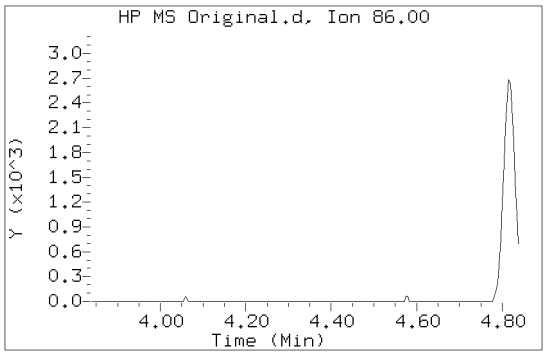
AFTER

MASS
43
AREA
3220
HEIGHT
1483
06-Jun-2024
17:10
s
zaid



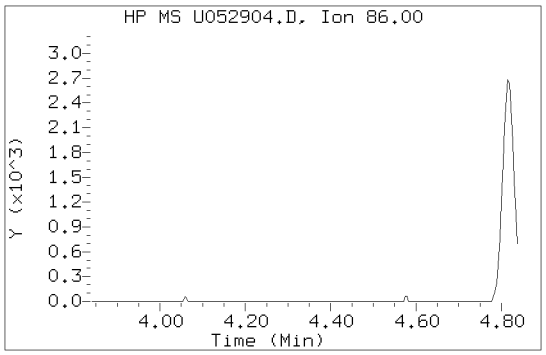
BEFORE

MASS
86
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



AFTER

MASS
86
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



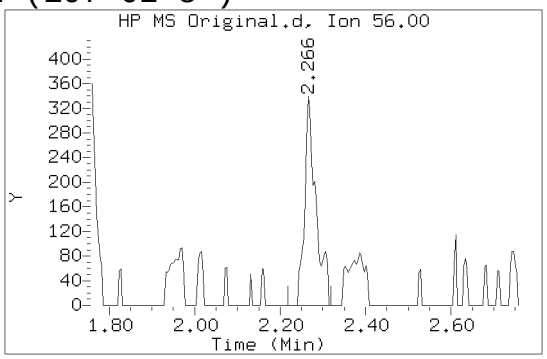
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052904.D
Inj Date : 29-MAY-2024 11:22
InstruID : VOA9.i
LabSampID : VSTD001

Acrolein (107-02-8)

Reason Code:

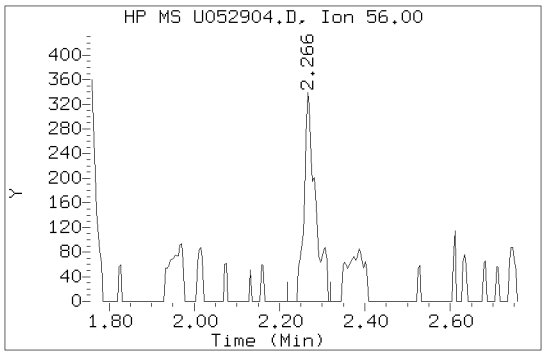
BEFORE

MASS
56
AREA
625
HEIGHT
339
06-Jun-2024
17:10
s
zaid



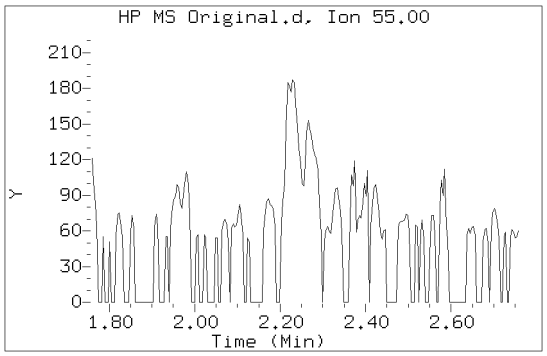
AFTER

MASS
56
AREA
625
HEIGHT
339
06-Jun-2024
17:10
s
zaid



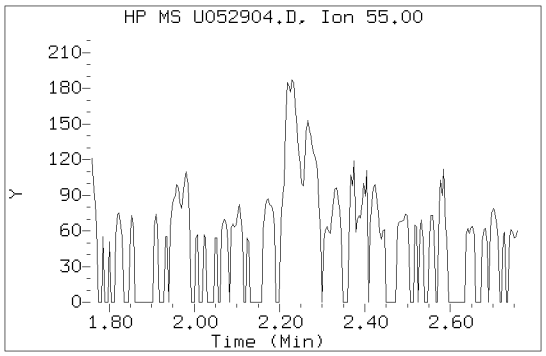
BEFORE

MASS
55
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



AFTER

MASS
55
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid

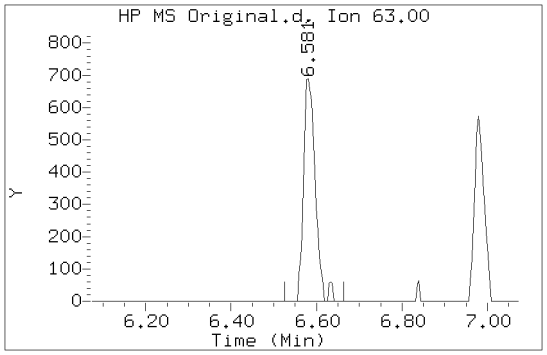


2-Chloroethylvinyl ether (110-75-8)

Reason Code:

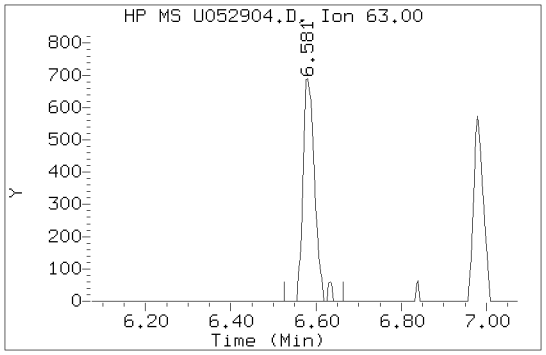
BEFORE

MASS
63
AREA
1330
HEIGHT
689
06-Jun-2024
17:10
s
zaid



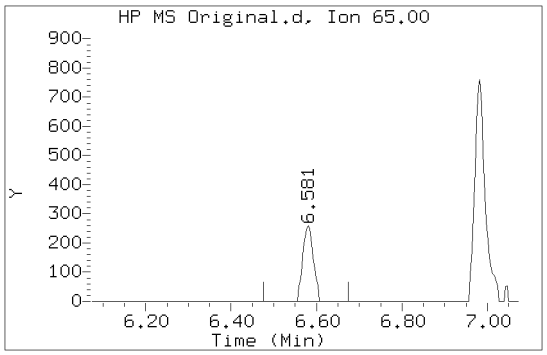
AFTER

MASS
63
AREA
1330
HEIGHT
689
06-Jun-2024
17:10
s
zaid



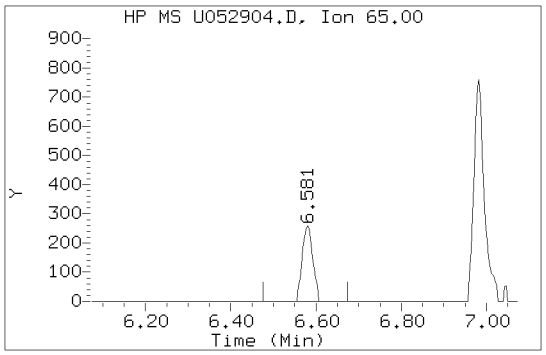
BEFORE

MASS
65
AREA
450
HEIGHT
260
06-Jun-2024
17:10
s
zaid



AFTER

MASS
65
AREA
450
HEIGHT
260
06-Jun-2024
17:10
s
zaid



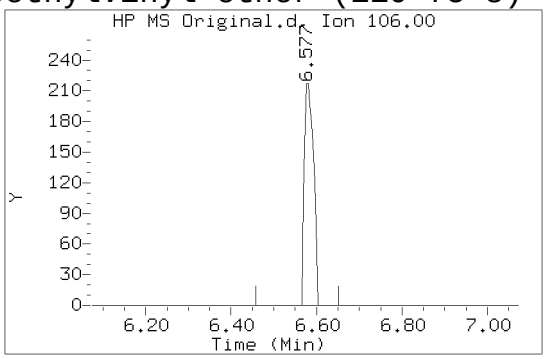
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052904.D
Inj Date : 29-MAY-2024 11:22
InstruID : VOA9.i
LabSampID : VSTD001

2-Chloroethylvinyl ether (110-75-8)

Reason Code:

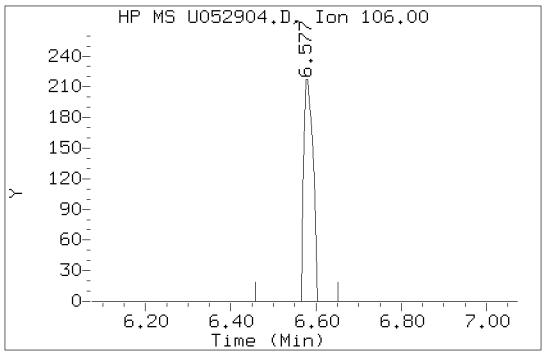
BEFORE

MASS
106
AREA
326
HEIGHT
217
06-Jun-2024
17:10
s
zaid



AFTER

MASS
106
AREA
326
HEIGHT
217
06-Jun-2024
17:10
s
zaid

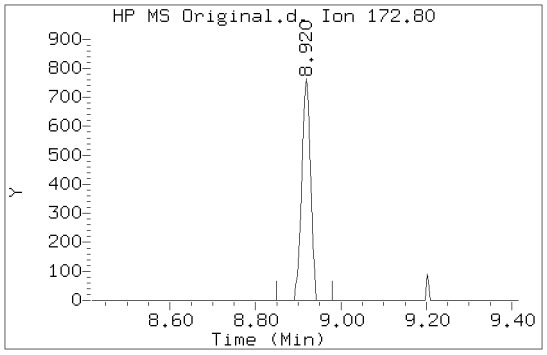


Bromoform (75-25-2)

Reason Code:

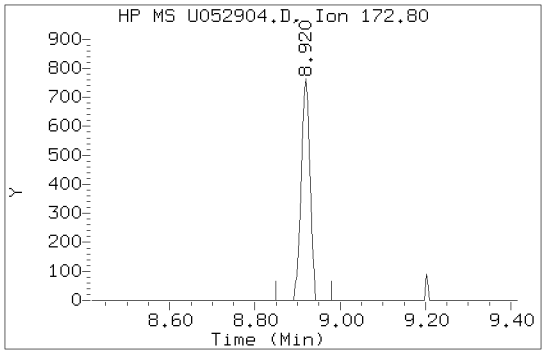
BEFORE

MASS
172.8
AREA
1114
HEIGHT
764
06-Jun-2024
17:10
s
zaid



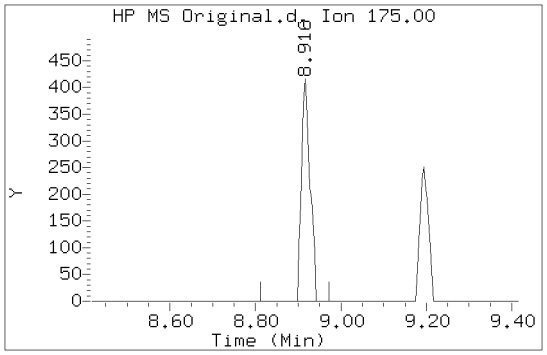
AFTER

MASS
172.8
AREA
1114
HEIGHT
764
06-Jun-2024
17:10
s
zaid



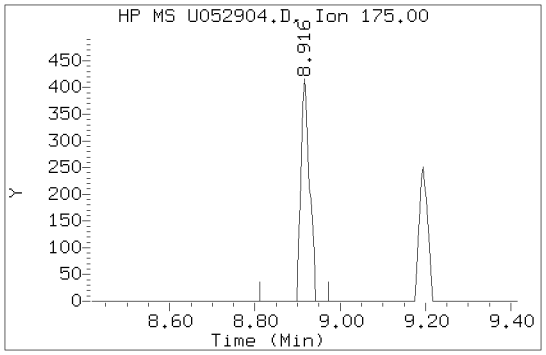
BEFORE

MASS
175
AREA
594
HEIGHT
416
06-Jun-2024
17:10
s
zaid



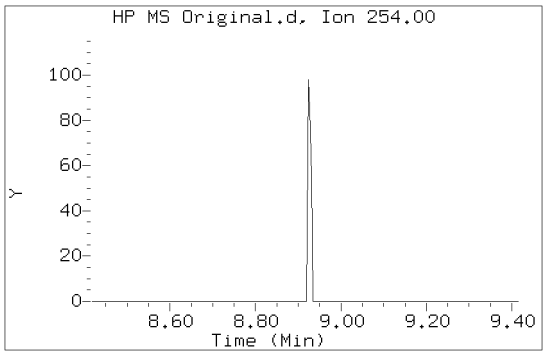
AFTER

MASS
175
AREA
594
HEIGHT
416
06-Jun-2024
17:10
s
zaid



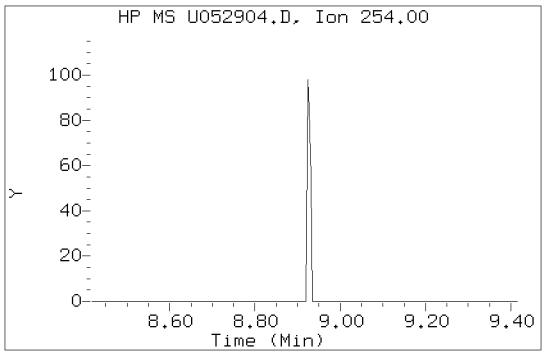
BEFORE

MASS
254
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



AFTER

MASS
254
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



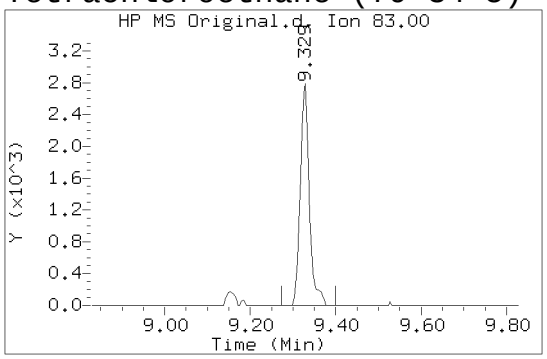
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052904.D
Inj Date : 29-MAY-2024 11:22
InstruID : VOA9.i
LabSampID : VSTD001

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

Reason Code:

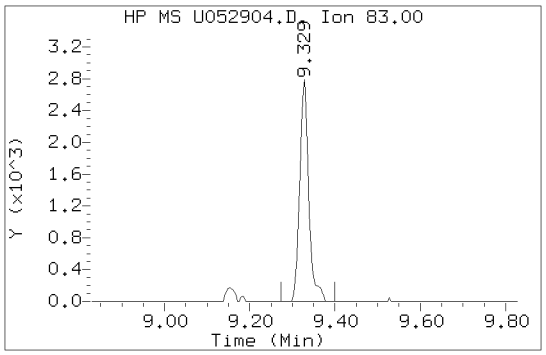
BEFORE

MASS
83
AREA
4229
HEIGHT
2788
06-Jun-2024
17:10
s
zaid



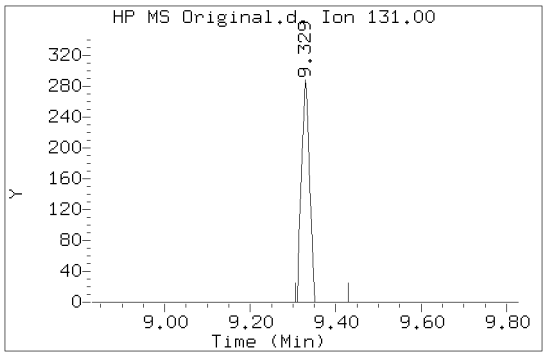
AFTER

MASS
83
AREA
4229
HEIGHT
2788
06-Jun-2024
17:10
s
zaid



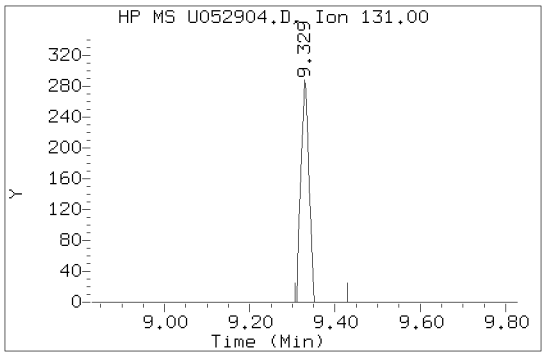
BEFORE

MASS
131
AREA
390
HEIGHT
288
06-Jun-2024
17:10
s
zaid



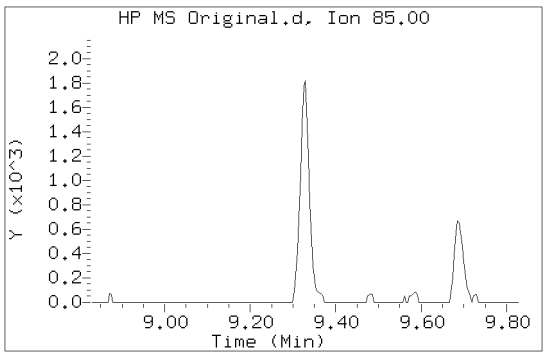
AFTER

MASS
131
AREA
390
HEIGHT
288
06-Jun-2024
17:10
s
zaid



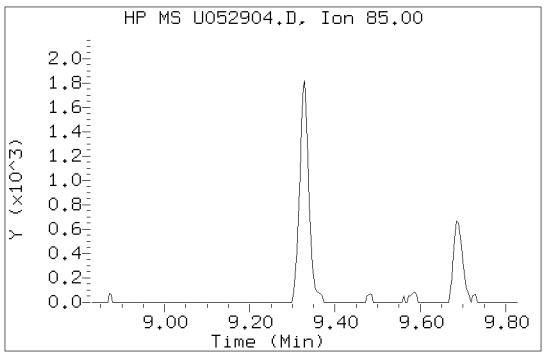
BEFORE

MASS
85
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



AFTER

MASS
85
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid

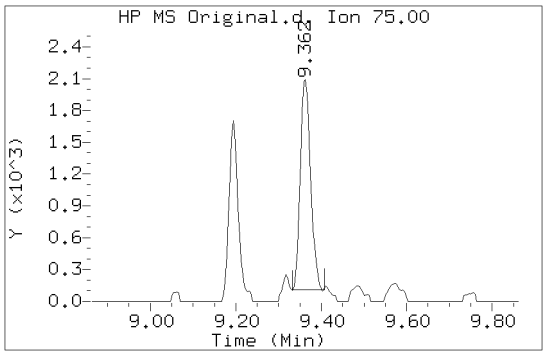


1,2,3-Trichloropropane (96-18-4)

Reason Code:

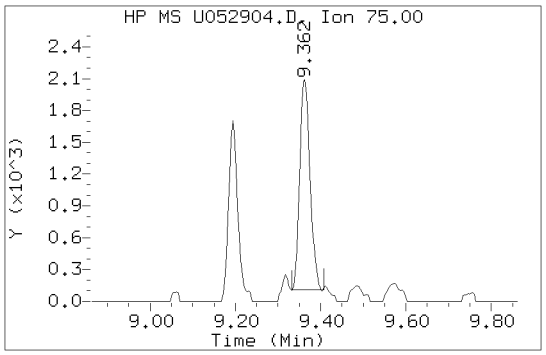
BEFORE

MASS
75
AREA
3399
HEIGHT
1982
06-Jun-2024
17:10
s
zaid



AFTER

MASS
75
AREA
3399
HEIGHT
1982
06-Jun-2024
17:10
s
zaid



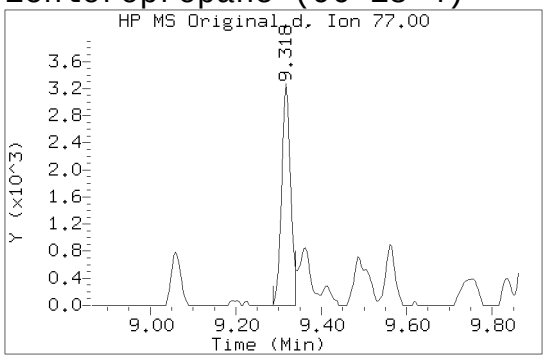
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052904.D
Inj Date : 29-MAY-2024 11:22
InstruID : VOA9.i
LabSampID : VSTD001

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

Reason Code:

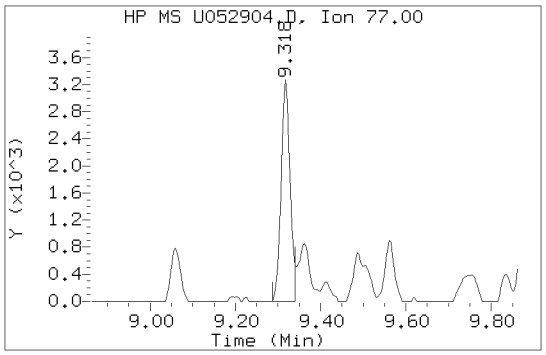
BEFORE

MASS
77
AREA
4795
HEIGHT
3273
06-Jun-2024
17:10
s
zaid



AFTER

MASS
77
AREA
4795
HEIGHT
3273
06-Jun-2024
17:10
s
zaid

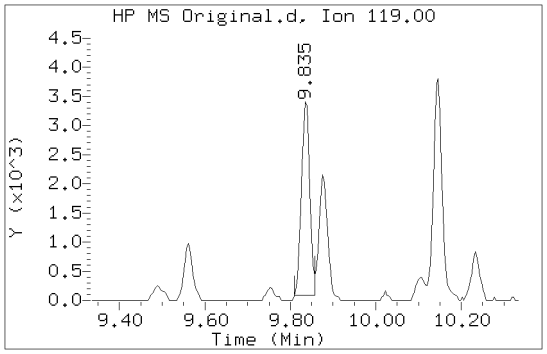


tert-Butylbenzene (98-06-6)

Reason Code:

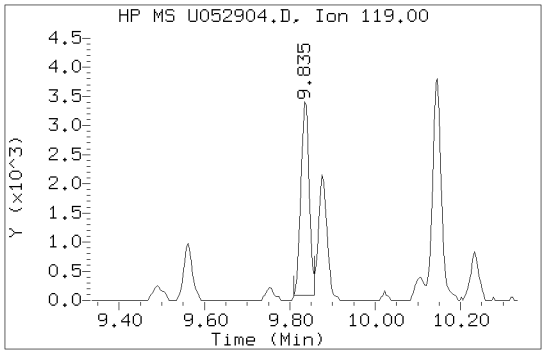
BEFORE

MASS
119
AREA
4628
HEIGHT
3320
06-Jun-2024
17:10
s
zaid



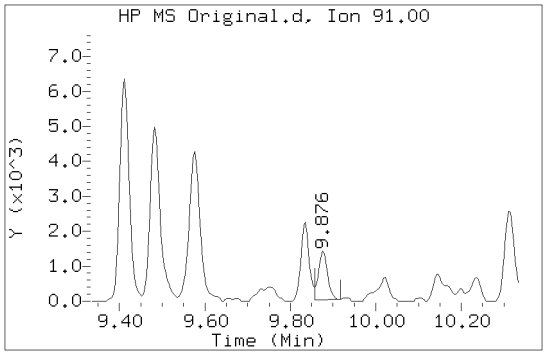
AFTER

MASS
119
AREA
4628
HEIGHT
3320
06-Jun-2024
17:10
s
zaid



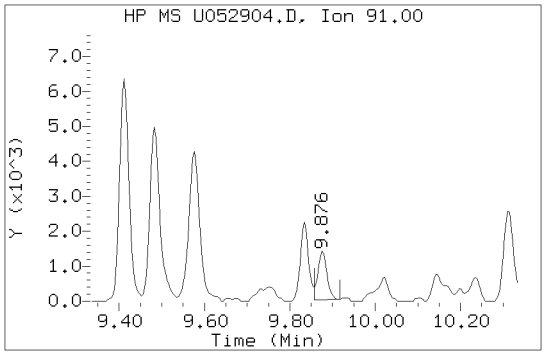
BEFORE

MASS
91
AREA
2049
HEIGHT
1380
06-Jun-2024
17:10
s
zaid



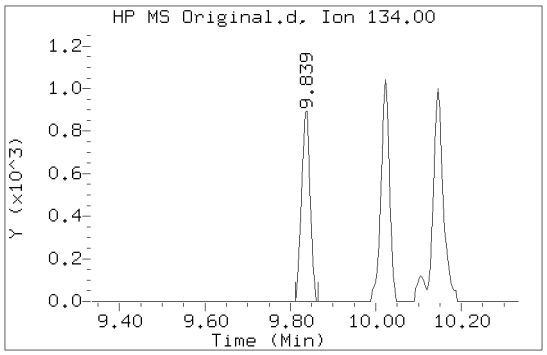
AFTER

MASS
91
AREA
2049
HEIGHT
1380
06-Jun-2024
17:10
s
zaid



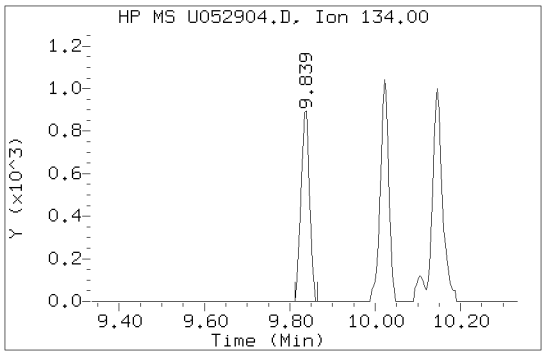
BEFORE

MASS
134
AREA
1283
HEIGHT
894
06-Jun-2024
17:10
s
zaid



AFTER

MASS
134
AREA
1283
HEIGHT
894
06-Jun-2024
17:10
s
zaid



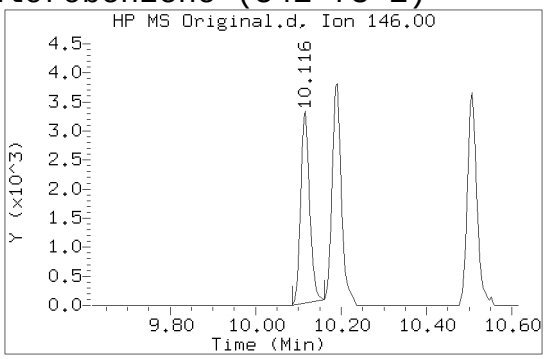
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052904.D
Inj Date : 29-MAY-2024 11:22
InstruID : VOA9.i
LabSampID : VSTD001

1,3-Dichlorobenzene (541-73-1)

Reason Code:

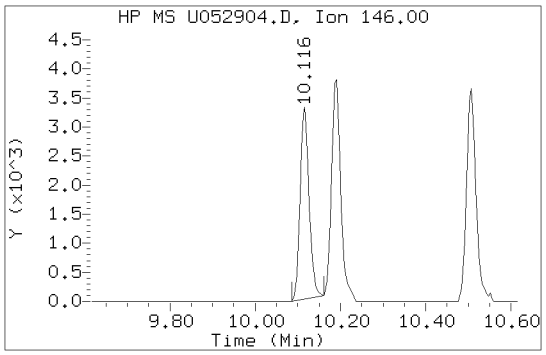
BEFORE

MASS
146
AREA
4916
HEIGHT
3297
06-Jun-2024
17:10
s
zaid



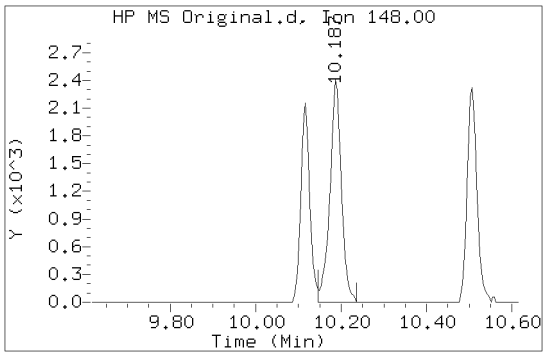
AFTER

MASS
146
AREA
4916
HEIGHT
3297
06-Jun-2024
17:10
s
zaid



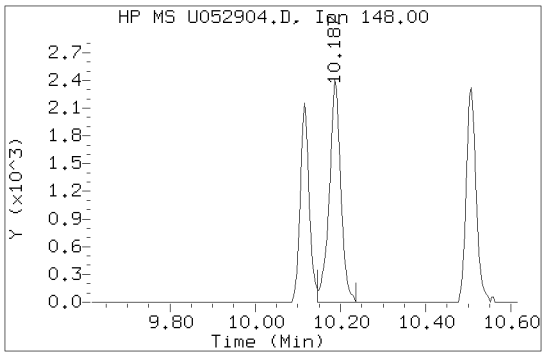
BEFORE

MASS
148
AREA
4504
HEIGHT
2405
06-Jun-2024
17:10
s
zaid



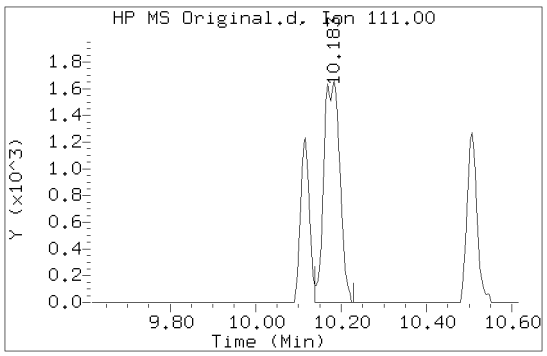
AFTER

MASS
148
AREA
4504
HEIGHT
2405
06-Jun-2024
17:10
s
zaid



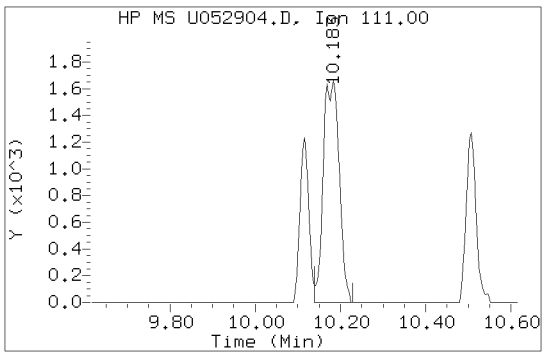
BEFORE

MASS
111
AREA
4324
HEIGHT
1660
06-Jun-2024
17:10
s
zaid



AFTER

MASS
111
AREA
4324
HEIGHT
1660
06-Jun-2024
17:10
s
zaid

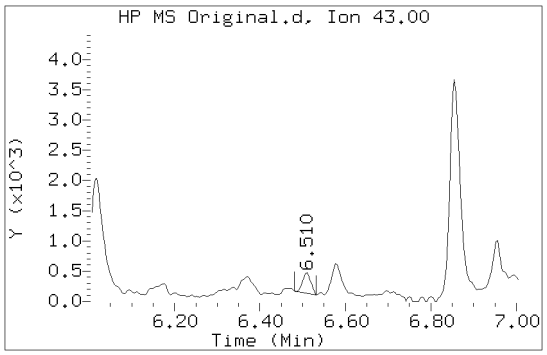


2-Nitropropane (79-46-9)

Reason Code:

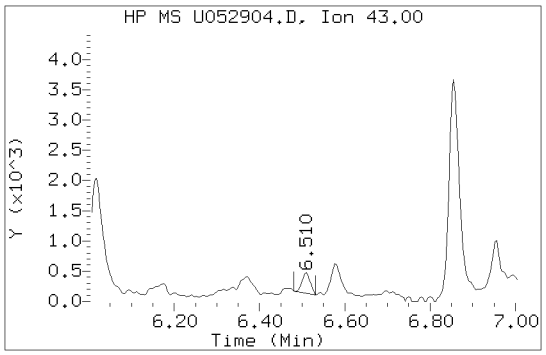
BEFORE

MASS
43
AREA
456
HEIGHT
337
06-Jun-2024
17:10
s
zaid



AFTER

MASS
43
AREA
456
HEIGHT
337
06-Jun-2024
17:10
s
zaid



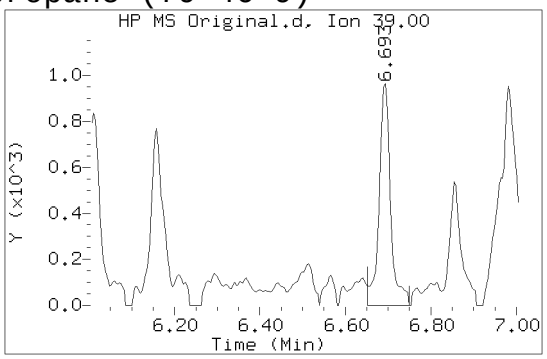
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052904.D
Inj Date : 29-MAY-2024 11:22
InstruID : VOA9.i
LabSampID : VSTD001

2-Nitropropane (79-46-9)

Reason Code:

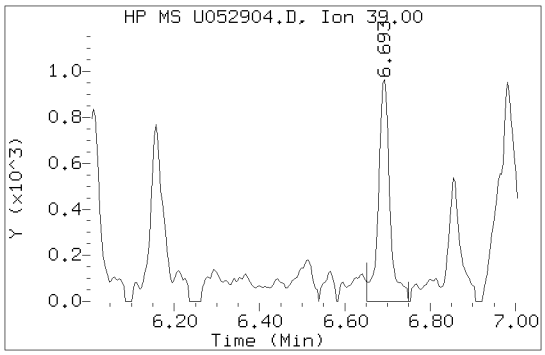
BEFORE

MASS
39
AREA
1799
HEIGHT
964
06-Jun-2024
17:10
s
zaid



AFTER

MASS
39
AREA
1799
HEIGHT
964
06-Jun-2024
17:10
s
zaid

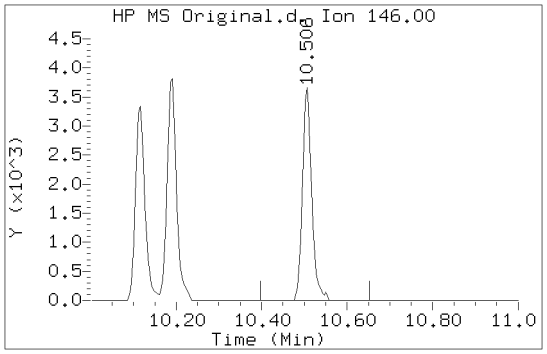


1,2-Dichlorobenzene (95-50-1)

Reason Code:

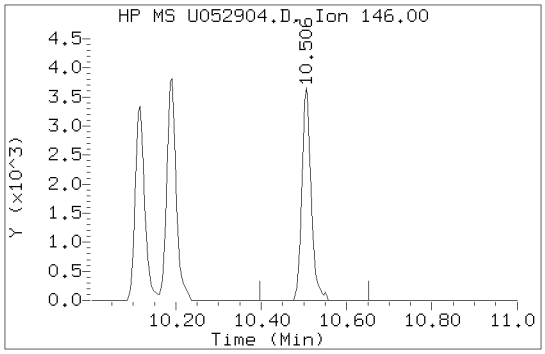
BEFORE

MASS
146
AREA
5651
HEIGHT
3662
06-Jun-2024
17:10
s
zaid



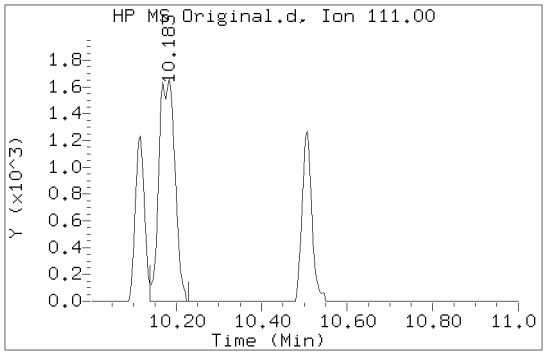
AFTER

MASS
146
AREA
5651
HEIGHT
3662
06-Jun-2024
17:10
s
zaid



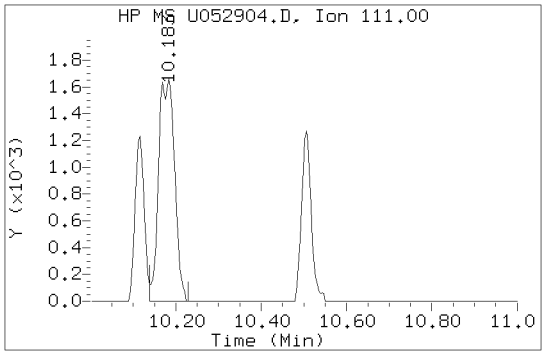
BEFORE

MASS
111
AREA
4324
HEIGHT
1660
06-Jun-2024
17:10
s
zaid



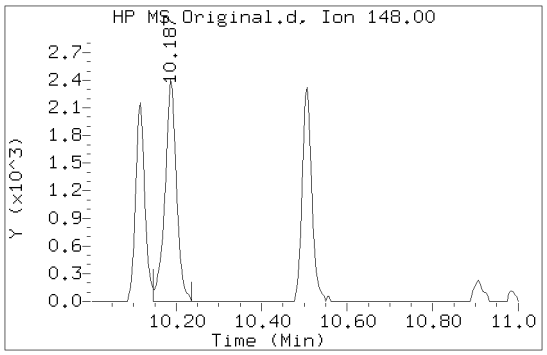
AFTER

MASS
111
AREA
4324
HEIGHT
1660
06-Jun-2024
17:10
s
zaid



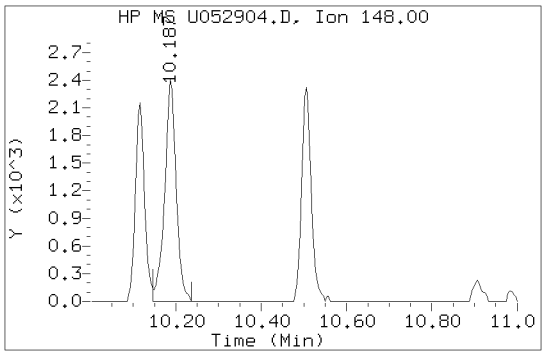
BEFORE

MASS
148
AREA
4504
HEIGHT
2405
06-Jun-2024
17:10
s
zaid



AFTER

MASS
148
AREA
4504
HEIGHT
2405
06-Jun-2024
17:10
s
zaid



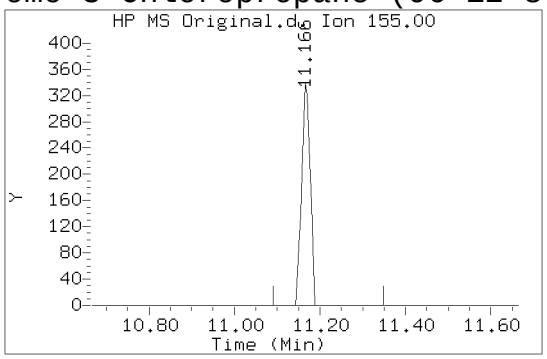
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052904.D
Inj Date : 29-MAY-2024 11:22
InstruID : VOA9.i
LabSampID : VSTD001

1,2-Dibromo-3-Chloropropane (96-12-8)

Reason Code:

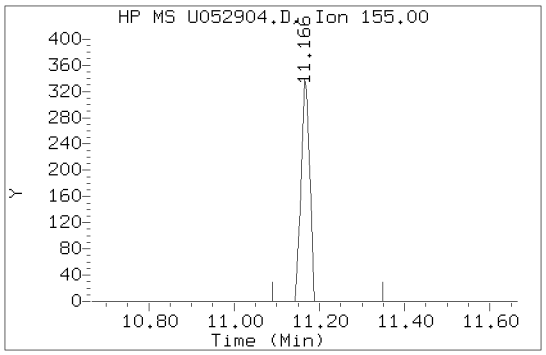
BEFORE

MASS
155
AREA
485
HEIGHT
338
06-Jun-2024
17:10
s
zaid



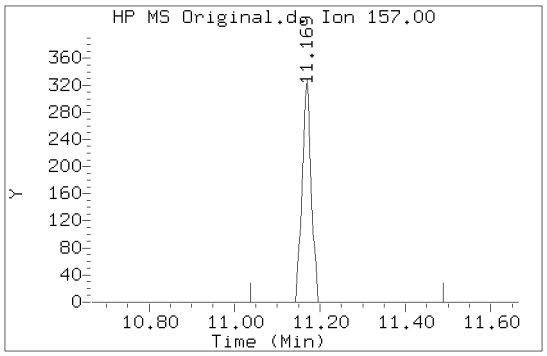
AFTER

MASS
155
AREA
485
HEIGHT
338
06-Jun-2024
17:10
s
zaid



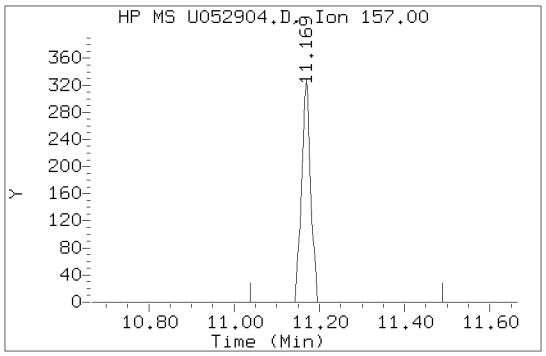
BEFORE

MASS
157
AREA
493
HEIGHT
328
06-Jun-2024
17:10
s
zaid



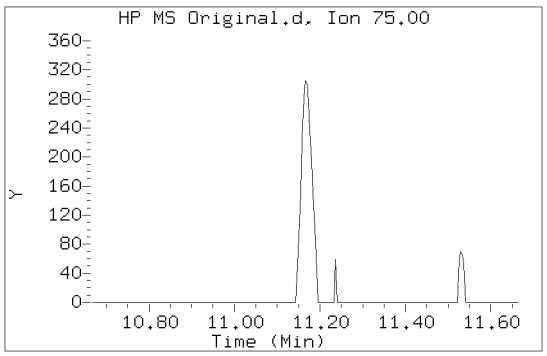
AFTER

MASS
157
AREA
493
HEIGHT
328
06-Jun-2024
17:10
s
zaid



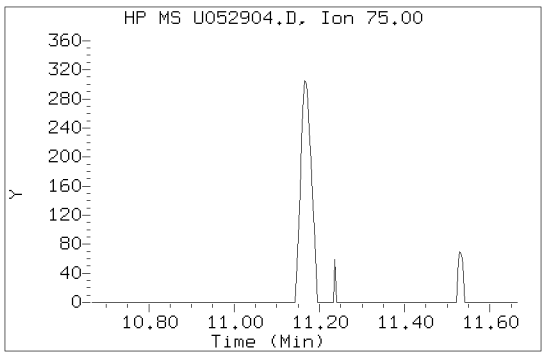
BEFORE

MASS
75
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



AFTER

MASS
75
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid

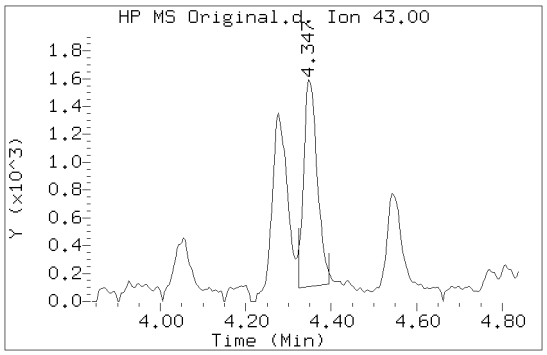


Ethyl Acetate (141-78-6)

Reason Code:

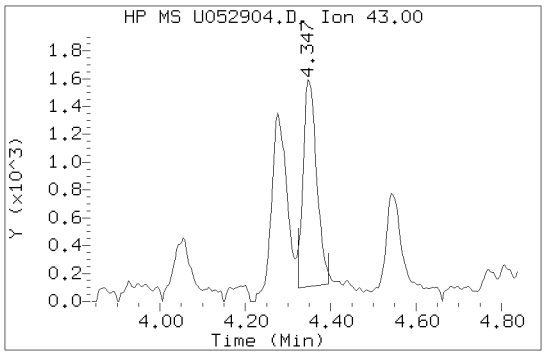
BEFORE

MASS
43
AREA
3313
HEIGHT
1487
06-Jun-2024
17:10
s
zaid



AFTER

MASS
43
AREA
3313
HEIGHT
1487
06-Jun-2024
17:10
s
zaid



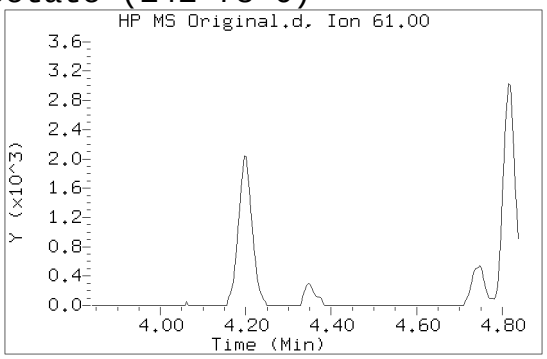
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052904.D
Inj Date : 29-MAY-2024 11:22
InstruID : VOA9.i
LabSampID : VSTD001

Ethyl Acetate (141-78-6)

Reason Code:

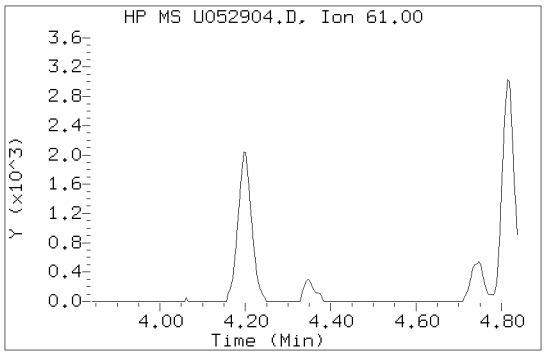
BEFORE

MASS
61
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



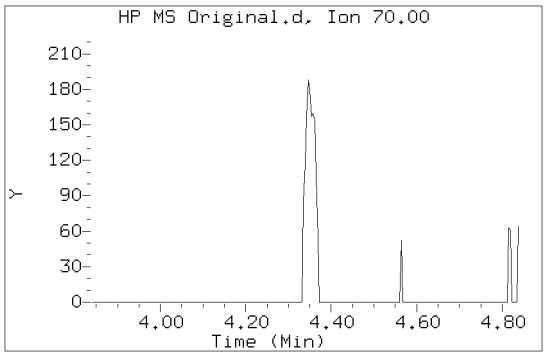
AFTER

MASS
61
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



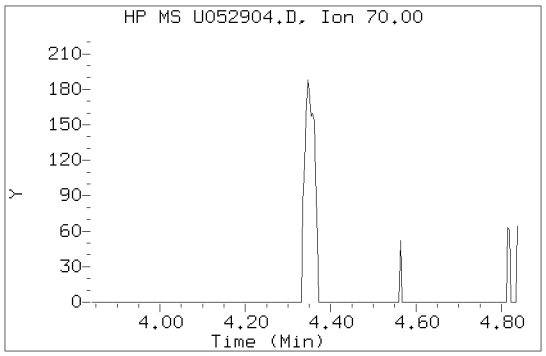
BEFORE

MASS
70
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



AFTER

MASS
70
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid

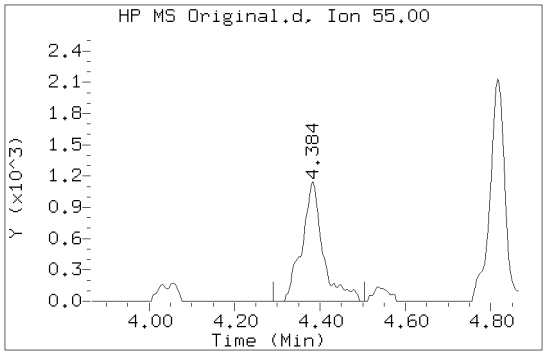


Methyl Acrylate (96-33-3)

Reason Code:

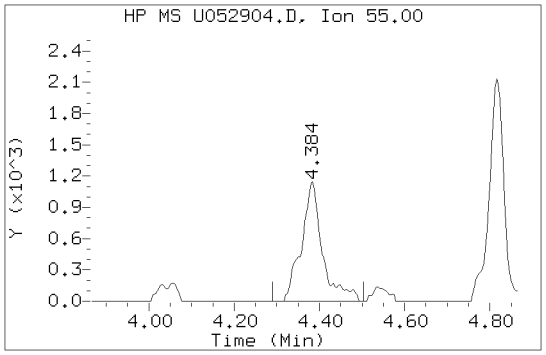
BEFORE

MASS
55
AREA
3957
HEIGHT
1149
06-Jun-2024
17:10
s
zaid



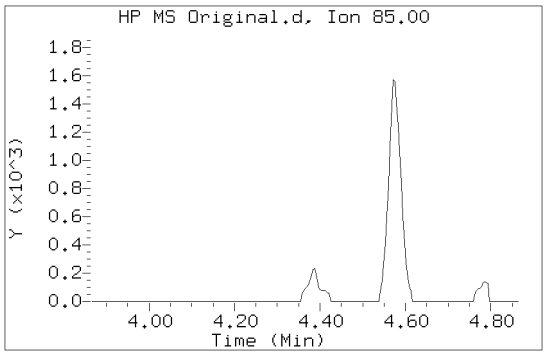
AFTER

MASS
55
AREA
3957
HEIGHT
1149
06-Jun-2024
17:10
s
zaid



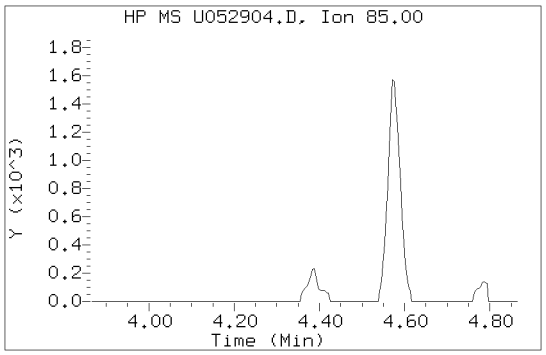
BEFORE

MASS
85
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



AFTER

MASS
85
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



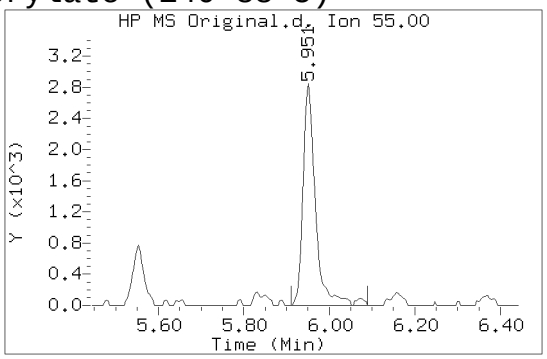
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052904.D
Inj Date : 29-MAY-2024 11:22
InstruID : VOA9.i
LabSampID : VSTD001

Ethyl Acrylate (140-88-5)

Reason Code:

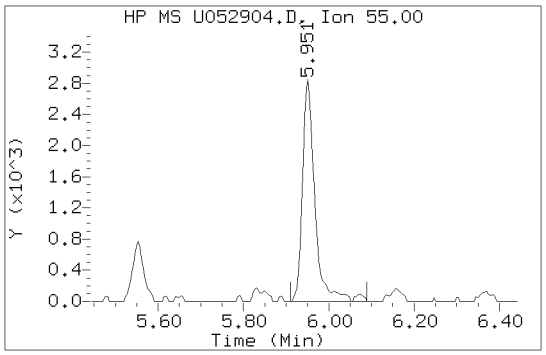
BEFORE

MASS
55
AREA
5916
HEIGHT
2846
06-Jun-2024
17:10
s
zaid



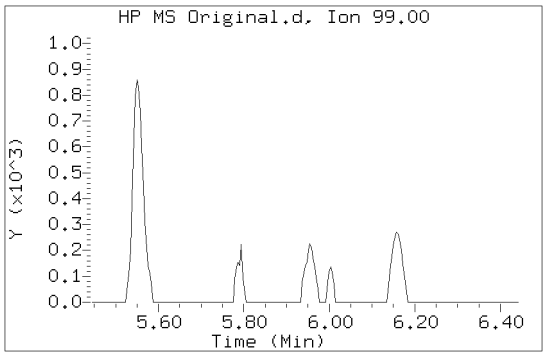
AFTER

MASS
55
AREA
5916
HEIGHT
2846
06-Jun-2024
17:10
s
zaid



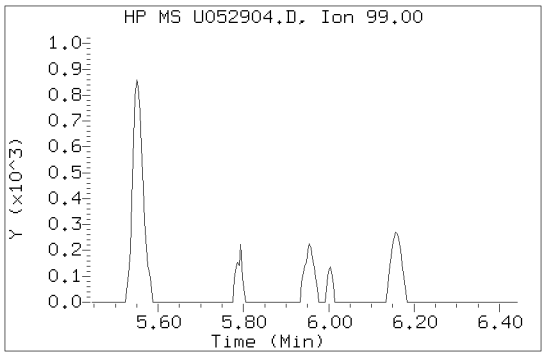
BEFORE

MASS
99
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



AFTER

MASS
99
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid

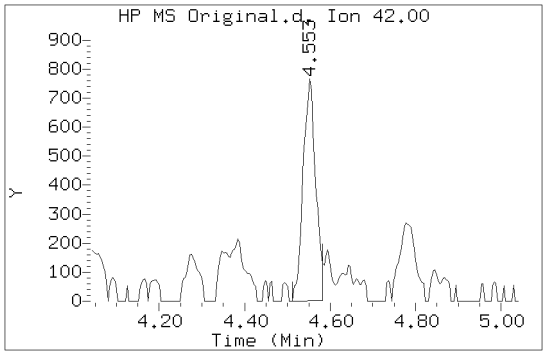


Tetrahydrofuran (109-99-9)

Reason Code:

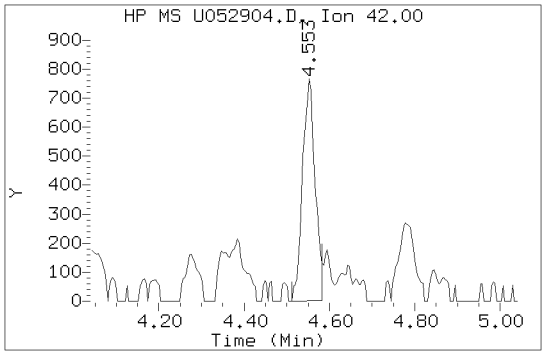
BEFORE

MASS
42
AREA
1587
HEIGHT
764
06-Jun-2024
17:10
s
zaid



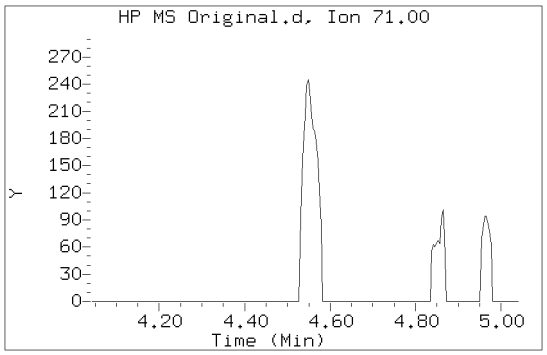
AFTER

MASS
42
AREA
1587
HEIGHT
764
06-Jun-2024
17:10
s
zaid



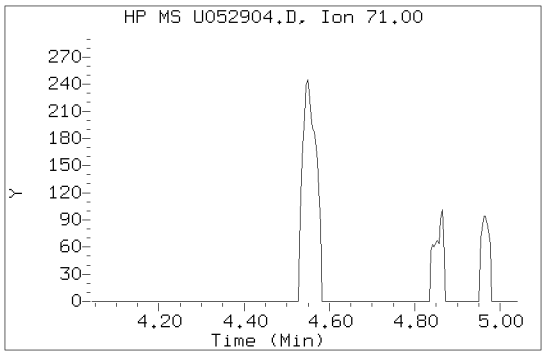
BEFORE

MASS
71
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



AFTER

MASS
71
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



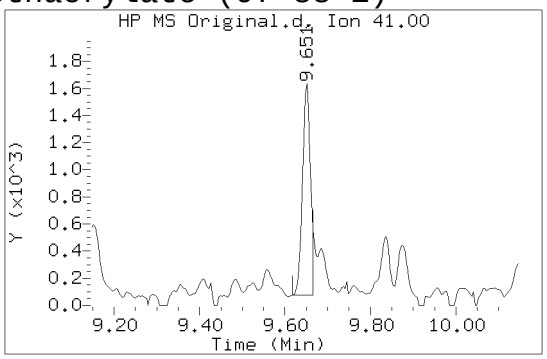
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052904.D
Inj Date : 29-MAY-2024 11:22
InstruID : VOA9.i
LabSampID : VSTD001

Butyl methacrylate (97-88-1)

Reason Code:

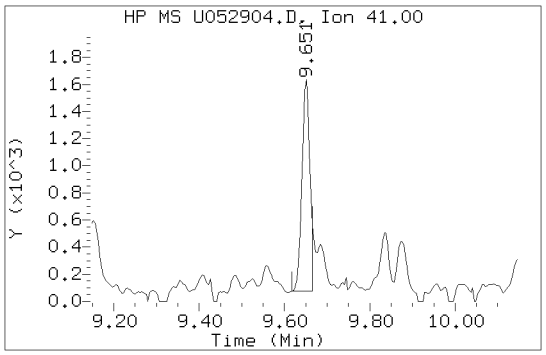
BEFORE

MASS
41
AREA
2085
HEIGHT
1559
06-Jun-2024
17:10
s
zaid



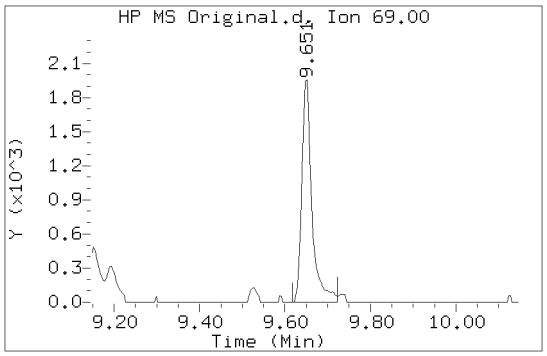
AFTER

MASS
41
AREA
2085
HEIGHT
1559
06-Jun-2024
17:10
s
zaid



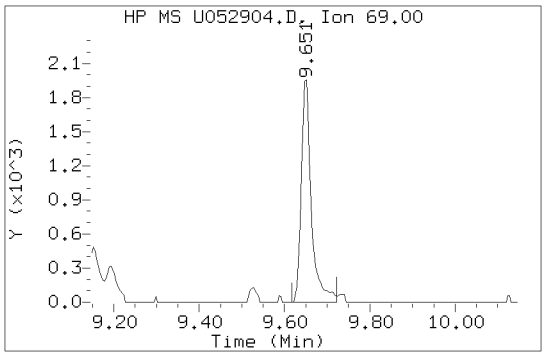
BEFORE

MASS
69
AREA
3292
HEIGHT
1955
06-Jun-2024
17:10
s
zaid



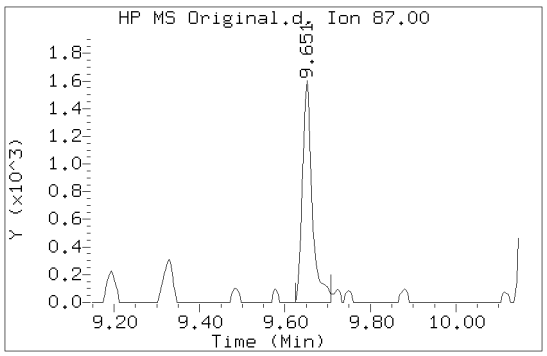
AFTER

MASS
69
AREA
3292
HEIGHT
1955
06-Jun-2024
17:10
s
zaid



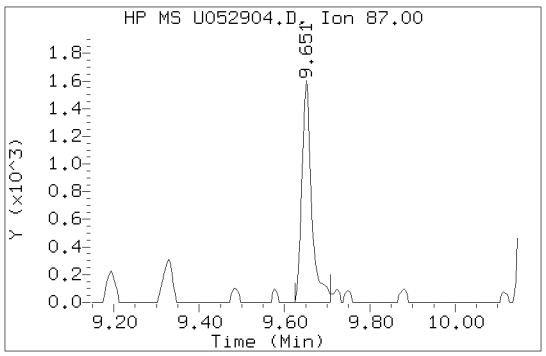
BEFORE

MASS
87
AREA
2619
HEIGHT
1602
06-Jun-2024
17:10
s
zaid



AFTER

MASS
87
AREA
2619
HEIGHT
1602
06-Jun-2024
17:10
s
zaid

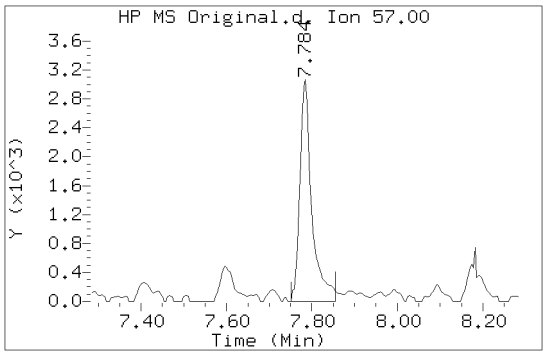


3,3-Dimethyl-1-butanol (624-95-3)

Reason Code:

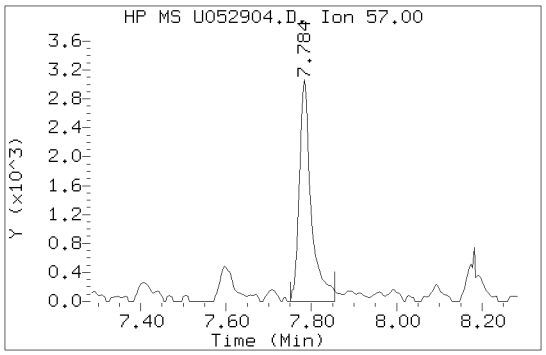
BEFORE

MASS
57
AREA
6038
HEIGHT
3064
06-Jun-2024
17:10
s
zaid



AFTER

MASS
57
AREA
6038
HEIGHT
3064
06-Jun-2024
17:10
s
zaid

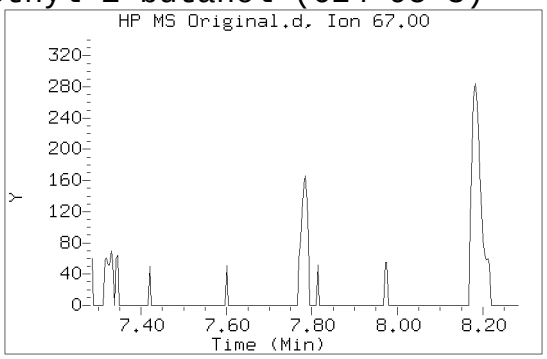


Data File : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052904.D
Inj Date : 29-MAY-2024 11:22
InstruID : VOA9.i
LabSampID : VSTD001

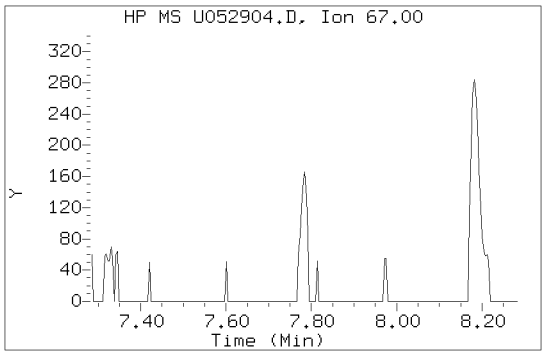
3,3-Dimethyl-1-butanol (624-95-3)

Reason Code:

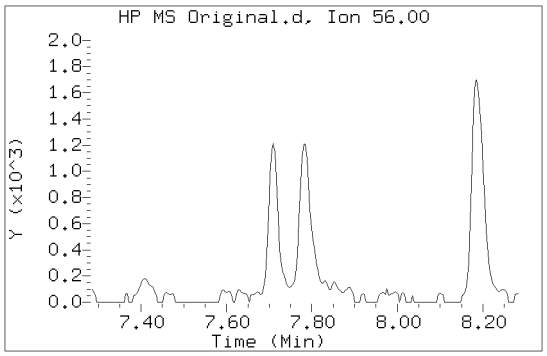
BEFORE
MASS
67
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



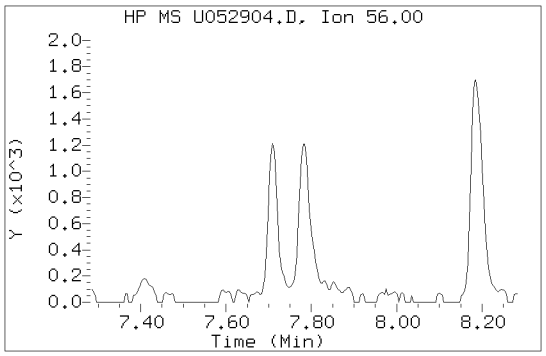
AFTER
MASS
67
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



BEFORE
MASS
56
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



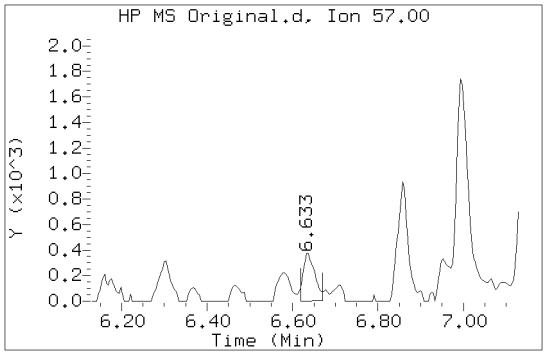
AFTER
MASS
56
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



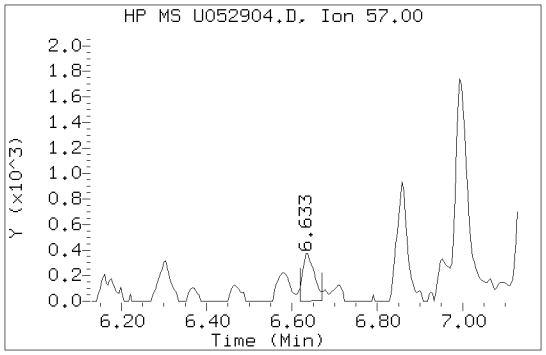
Epichlorohydrin (106-89-8)

Reason Code:

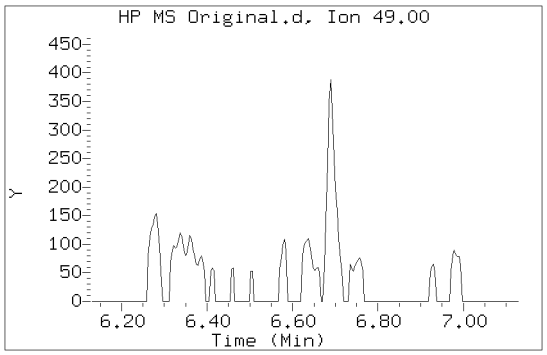
BEFORE
MASS
57
AREA
718
HEIGHT
371
06-Jun-2024
17:10
s
zaid



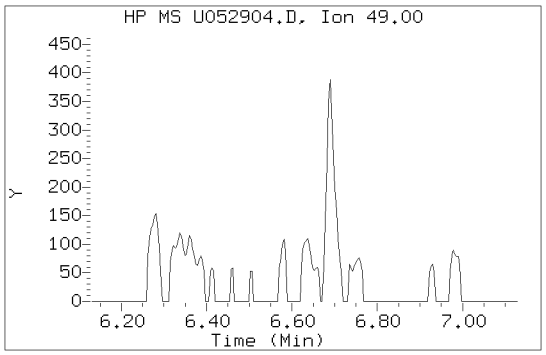
AFTER
MASS
57
AREA
718
HEIGHT
371
06-Jun-2024
17:10
s
zaid



BEFORE
MASS
49
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



AFTER
MASS
49
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



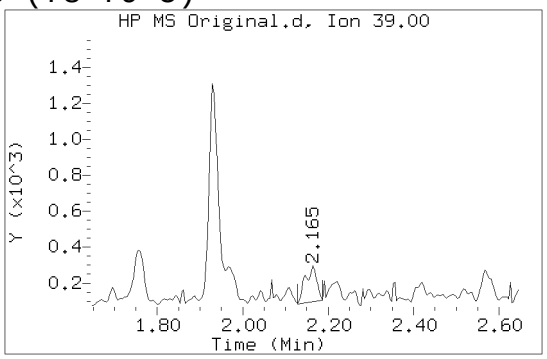
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052904.D
Inj Date : 29-MAY-2024 11:22
InstruID : VOA9.i
LabSampID : VSTD001

Isoprene (78-79-5)

Reason Code:

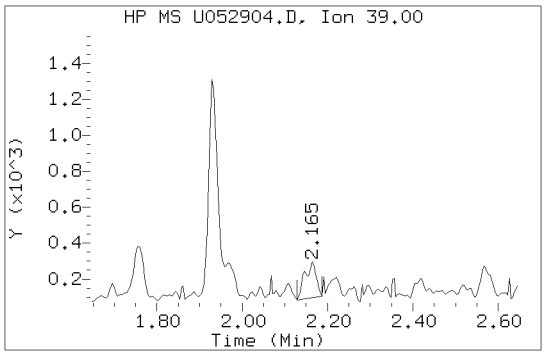
BEFORE

MASS
39
AREA
375
HEIGHT
200
06-Jun-2024
17:10
s
zaid



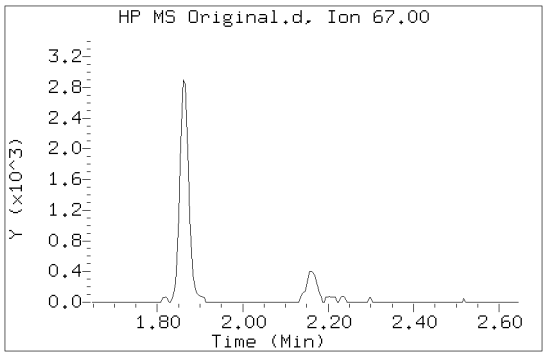
AFTER

MASS
39
AREA
375
HEIGHT
200
06-Jun-2024
17:10
s
zaid



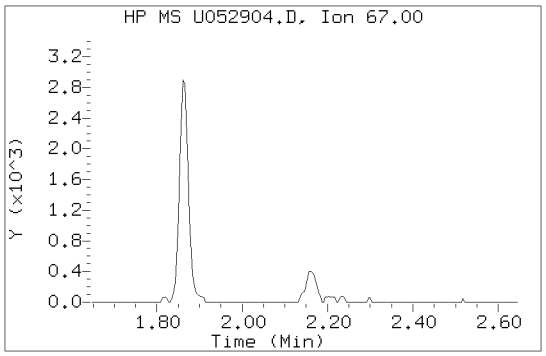
BEFORE

MASS
67
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



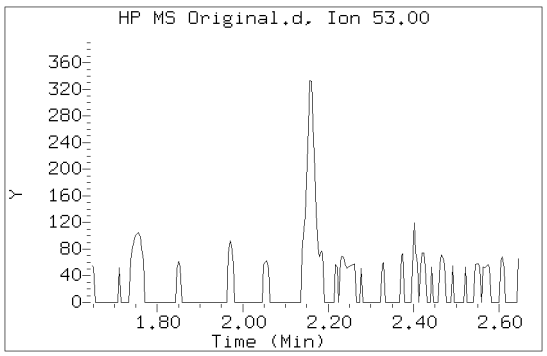
AFTER

MASS
67
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



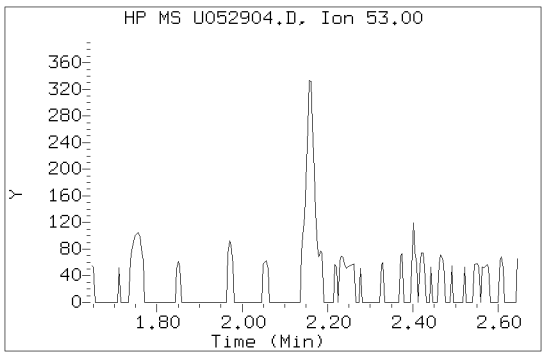
BEFORE

MASS
53
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



AFTER

MASS
53
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid

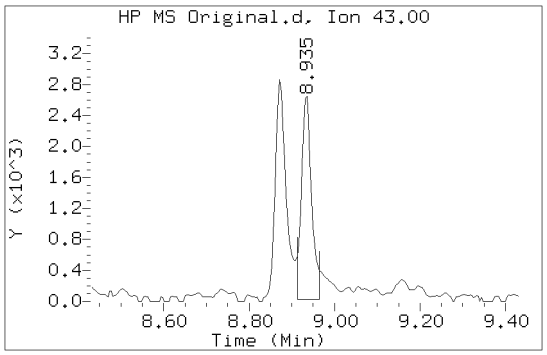


n-Amyl acetate (628-63-7)

Reason Code:

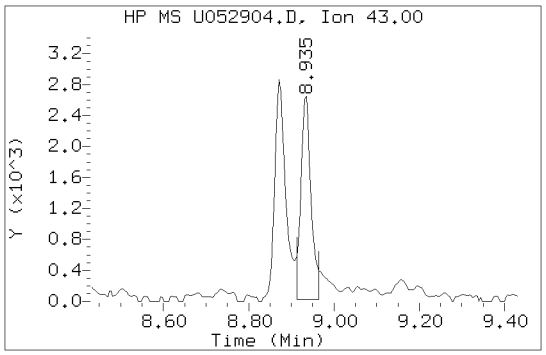
BEFORE

MASS
43
AREA
4502
HEIGHT
2621
06-Jun-2024
17:10
s
zaid



AFTER

MASS
43
AREA
4502
HEIGHT
2621
06-Jun-2024
17:10
s
zaid

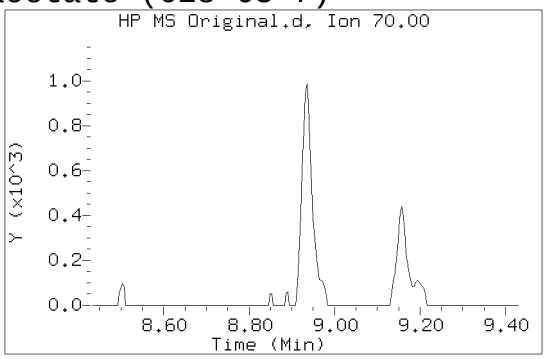


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Inj Date : 29-MAY-2024 11:22
InstruID : VOA9.i
LabSampID : VSTD001

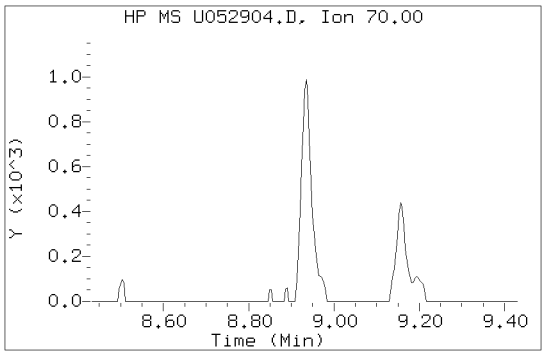
n-Amyl acetate (628-63-7)

Reason Code:

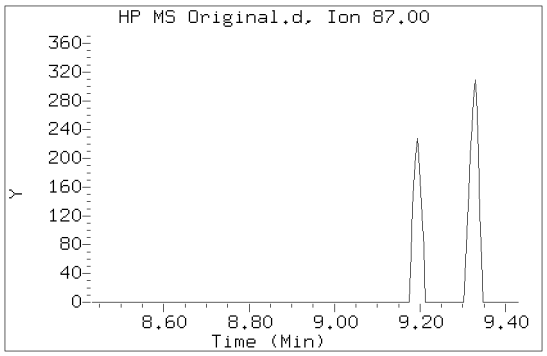
BEFORE
MASS
70
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



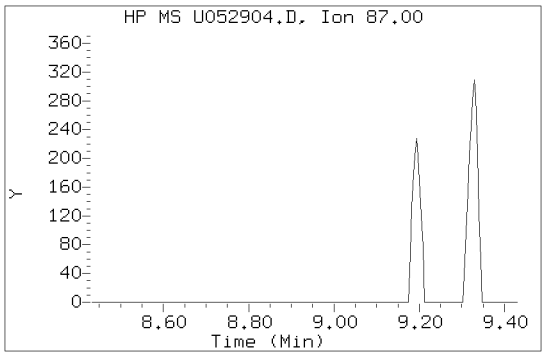
AFTER
MASS
70
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



BEFORE
MASS
87
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



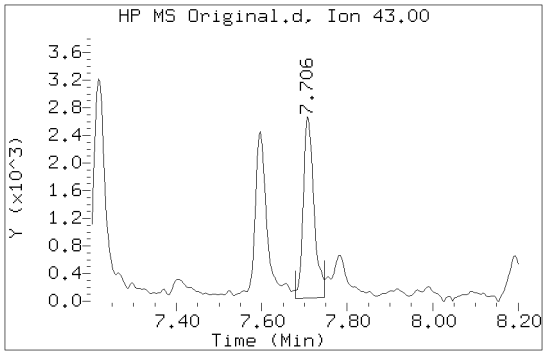
AFTER
MASS
87
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



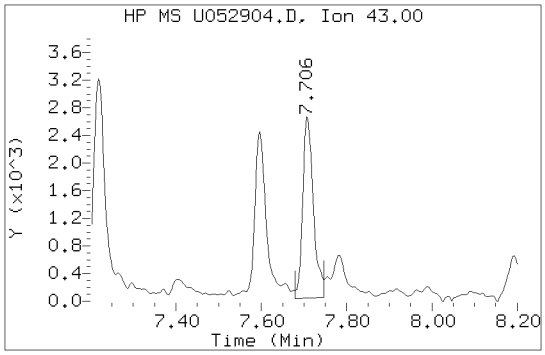
n-Butyl acetate (123-86-4)

Reason Code:

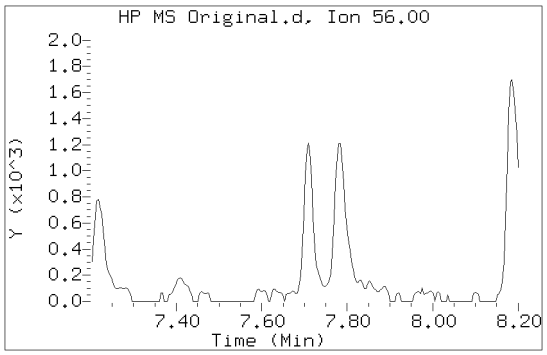
BEFORE
MASS
43
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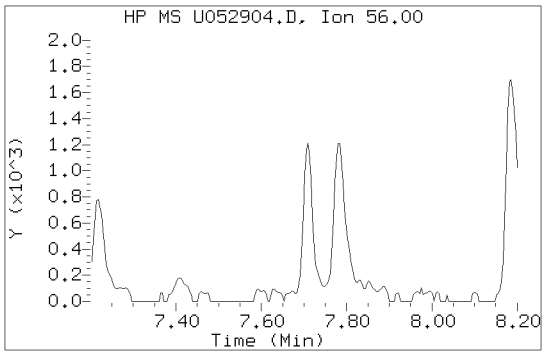
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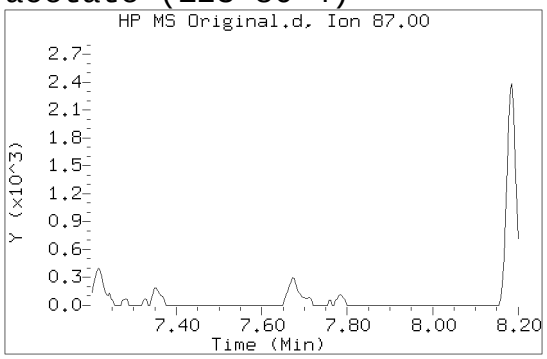
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InstruID : VOA9.i
LabSampID : VSTD001

n-Butyl acetate (123-86-4)

Reason Code:

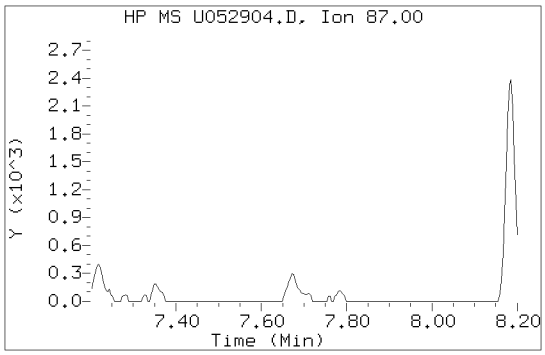
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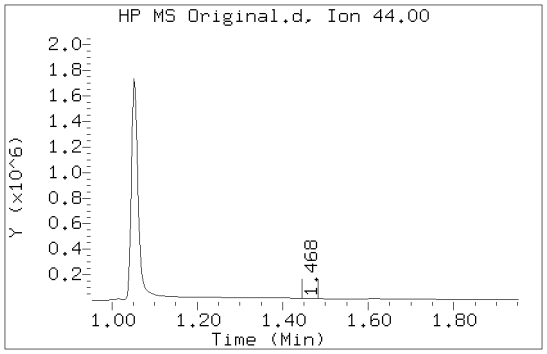


Acetaldehyde (75-07-0)

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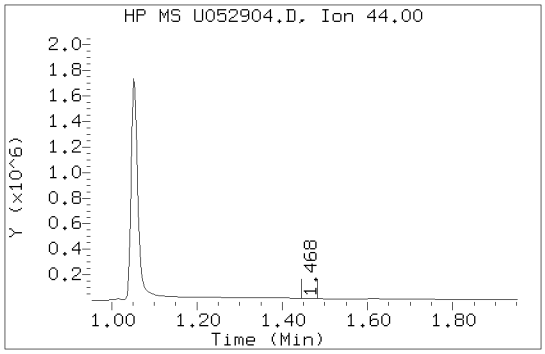
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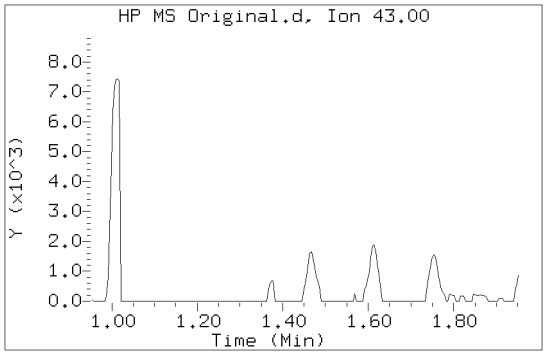
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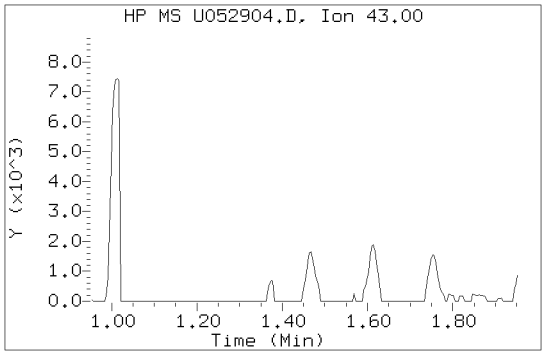
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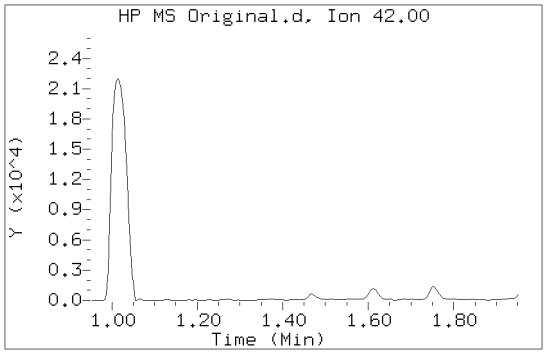
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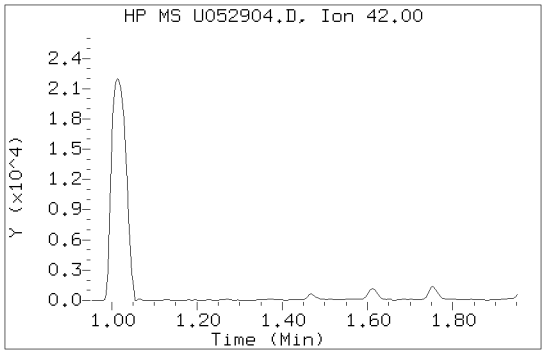
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AFTER

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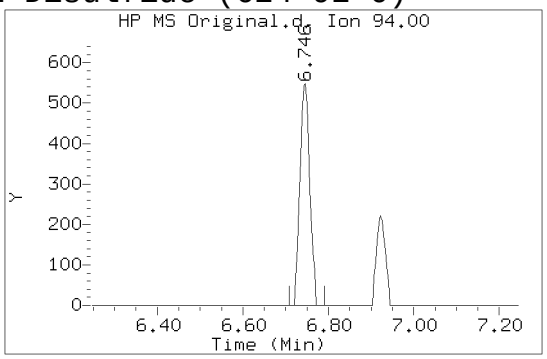


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LabSampID : VSTD001

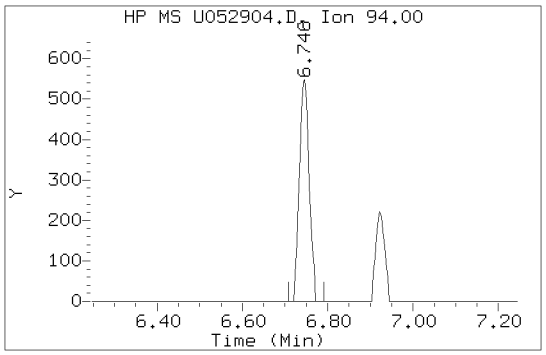
Dimethyl Disulfide (624-92-0)

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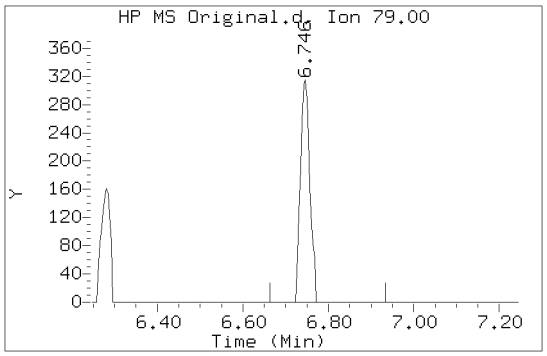
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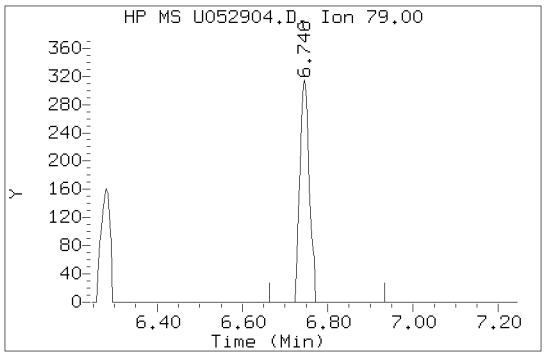
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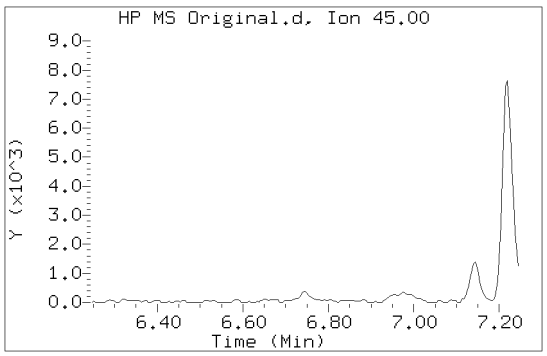
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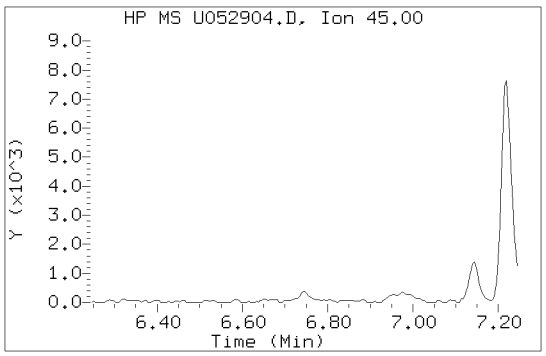
AFTER
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06-Jun-2024
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BEFORE
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HEIGHT
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06-Jun-2024
17:10
s
zaid



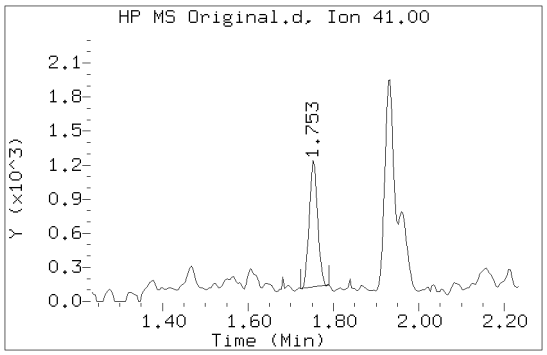
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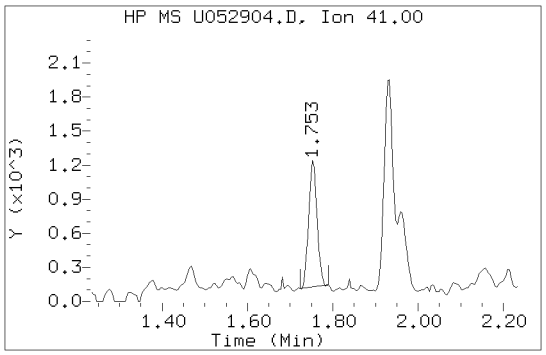
Isobutylene (115-11-7)

Reason Code:

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06-Jun-2024
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zaid



AFTER
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06-Jun-2024
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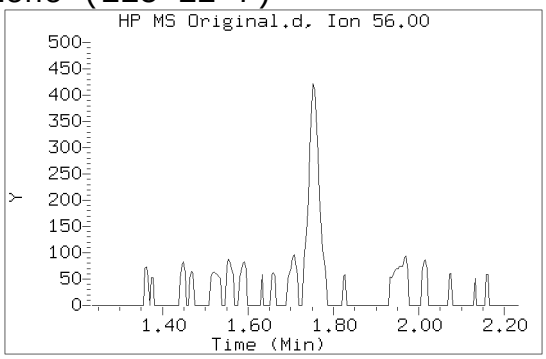
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InstruID : VOA9.i
LabSampID : VSTD001

Isobutylene (115-11-7)

Reason Code:

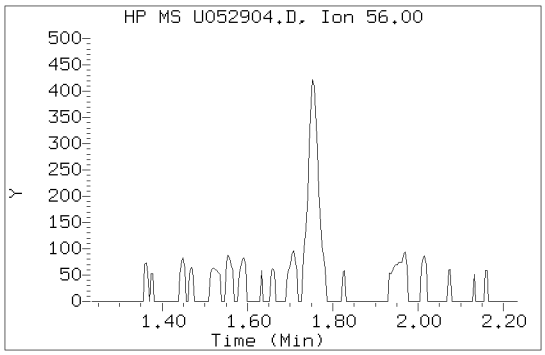
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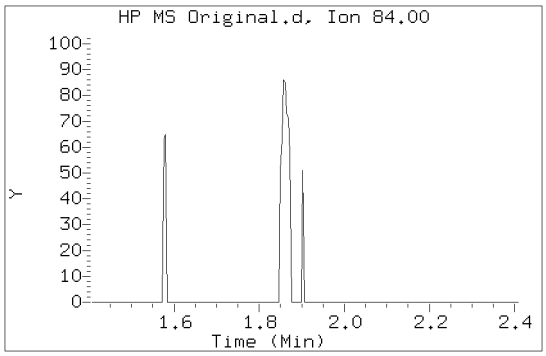
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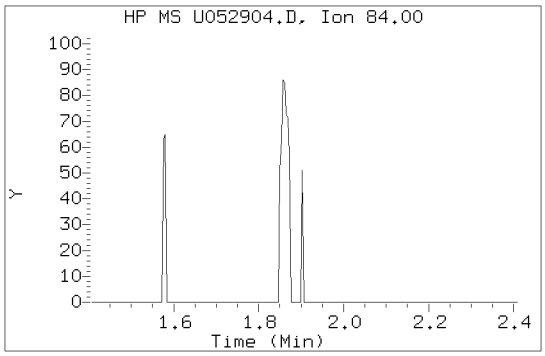
BEFORE

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AFTER

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06-Jun-2024
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Data File: \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052905.D Page 1
Report Date: 07-Jun-2024 10:54

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052905.D
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Inj Date : 29-MAY-2024 11:43
Operator : FT Inst ID: VOA9.i
Smp Info : VSTD002;VSTD002;1;4
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240529.b\8260C.m
Meth Date : 07-Jun-2024 10:14 r.patel Quant Type: ISTD
Cal Date : 29-MAY-2024 11:43 Cal File: U052905.D
Als bottle: 5 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14

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	4.811	4.811	(1.000)	285725	50.0000	
2	Dichlorodifluoromethane	85	1.156	1.156	(0.240)	2191	2.00000	2.05(M)
3	Chloromethane	50	1.288	1.288	(0.268)	12469	2.00000	2.59
4	Propionitrile	54	4.339	4.339	(0.902)	9364	20.0000	24.02(a)
5	Vinyl Chloride	62	1.370	1.366	(0.285)	4666	2.00000	2.16(M)
6	Bromomethane	94	1.610	1.595	(0.335)	3722	2.00000	2.07
7	Chloroethane	64	1.689	1.681	(0.351)	3382	2.00000	1.99(M)
8	Trichlorofluoromethane	101	1.884	1.884	(0.392)	5303	2.00000	2.06
9	Acrolein	56	2.255	2.259	(0.469)	772	4.00000	4.84(aM)
10	Acetone	43	2.401	2.405	(0.499)	6842	4.00000	6.23
11	1,1-Dichloroethene	96	2.322	2.322	(0.483)	4074	2.00000	2.16
12	Isobutyl Alcohol	43	5.280	5.284	(1.097)	15290	40.0000	36.07(a)
13	Acetonitrile	39	2.663	2.663	(0.554)	4978	20.0000	21.47(a)
14	Allyl Chloride	41	2.663	2.667	(0.554)	14793	2.00000	2.48(a)
15	Iodomethane	142	2.461	2.457	(0.512)	1323	4.00000	4.19(T)
16	Acrylonitrile	53	3.061	3.061	(0.636)	4999	4.00000	5.30
17	Methylene Chloride	84	2.787	2.783	(0.579)	7689	2.00000	2.25
18	Methyl tert-butyl ether	73	3.072	3.076	(0.639)	14737	2.00000	2.36
19	Carbon Disulfide	76	2.510	2.510	(0.522)	21847	4.00000	4.13
20	trans-1,2-Dichloroethene	96	3.050	3.050	(0.634)	4959	2.00000	2.32
21	Vinyl Acetate	43	4.339	4.339	(0.902)	5050	4.00000	4.01(M)

22 1,1-Dichloroethane	63	3.503	3.507 (0.728)	9371	2.00000	2.29
23 Chloroprene	53	3.601	3.601 (0.748)	6452	2.00000	2.15(a)

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052905.D Page 2
Report Date: 07-Jun-2024 10:54

			QUANT SIG					AMOUNTS	
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)
	24	2-Butanone	43	4.264	4.260	(0.886)	5834	4.00000	4.56
	25	Methacrylonitrile	41	4.493	4.489	(0.934)	3297	2.00000	2.36(a)
	26	2,2-Dichloropropane	77	4.174	4.174	(0.868)	5609	2.00000	2.08
	27	cis-1,2-Dichloroethene	96	4.189	4.189	(0.871)	6111	2.00000	2.32
	28	Chloroform	83	4.568	4.568	(0.949)	9851	2.00000	2.41
	29	Bromochloromethane	128	4.463	4.463	(0.928)	3171	2.00000	2.87
$	30	Dibromofluoromethane	113	4.744	4.744	(0.986)	5220	2.00000	2.42
	31	1,1,1-Trichloroethane	97	4.733	4.736	(0.984)	5968	2.00000	2.08
	32	1,1-Dichloropropene	75	4.916	4.916	(0.886)	6136	2.00000	2.02
	33	1,2-Dichloroethane	62	5.171	5.171	(0.932)	8149	2.00000	3.18(M)
	34	Carbon Tetrachloride	117	4.901	4.905	(0.884)	4139	2.00000	1.74(M)
$	35	1,2-Dichloroethane-d4	65	5.093	5.093	(1.058)	6748	2.00000	3.47
*	36	1,4-Difluorobenzene	114	5.546	5.550	(1.000)	418472	50.0000	
	37	Benzene	78	5.134	5.134	(0.926)	22729	2.00000	2.30
	38	Trichloroethene	130	5.786	5.786	(1.043)	5303	2.00000	2.18(a)
	39	Bromodichloromethane	83	6.273	6.277	(1.131)	5550	2.00000	2.09(aM)
	40	Methyl Methacrylate	41	5.831	5.827	(1.212)	3031	2.00000	3.43(a)
	41	2-Chloroethylvinyl ether	63	6.577	6.573	(1.186)	2568	4.00000	6.25
	42	1,2-Dichloropropane	63	6.007	6.007	(1.083)	6290	2.00000	2.41(aM)
	43	2-Nitropropane	43	6.506	6.506	(1.352)	922	2.00000	3.67(aM)
	44	Dibromomethane	93	6.116	6.116	(1.103)	3447	2.00000	2.28(a)
	45	4-Methyl-2-Pentanone	43	6.851	6.851	(0.837)	11033	4.00000	4.89(a)
	46	cis-1,3-Dichloropropene	75	6.686	6.690	(1.205)	6163	2.00000	2.61(a)
*	47	Chlorobenzene-d5	117	8.181	8.185	(1.000)	371365	50.0000	
$	48	Toluene-d8	98	6.918	6.918	(0.846)	20610	2.00000	3.10(a)
	49	Ethyl Methacrylate	69	7.289	7.289	(1.314)	7149	2.00000	2.20(a)
	50	Toluene	91	6.978	6.978	(0.853)	23051	2.00000	2.28(a)
	51	trans-1,3-Dichloropropene	75	7.196	7.196	(1.297)	4599	2.00000	2.74(a)
	52	2-Hexanone	43	7.593	7.589	(0.928)	6895	4.00000	5.96(M)
	53	1,1,2-Trichloroethane	83	7.353	7.353	(0.899)	4925	2.00000	2.44(a)
	54	1,3-Dichloropropane	76	7.495	7.499	(0.916)	9750	2.00000	2.37(a)
	55	Dibromochloromethane	129	7.690	7.690	(0.940)	3797	2.00000	2.66(a)
	56	Tetrachloroethene	164	7.454	7.454	(0.911)	3791	2.00000	2.15(a)
	57	1,2-Dibromoethane	107	7.784	7.784	(0.951)	4959	2.00000	2.23(a)
	58	1-Chlorohexane	55	8.189	8.196	(1.476)	6859	2.00000	3.07(a)
	59	Chlorobenzene	112	8.208	8.208	(1.003)	15418	2.00000	2.40(a)
	60	1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	4377	2.00000	2.14(a)
	61	Ethylbenzene	106	8.305	8.305	(1.015)	7387	2.00000	2.51(a)
	62	m,p-Xylenes	106	8.406	8.406	(1.027)	22381	4.00000	5.03(a)
	63	o-Xylene	106	8.744	8.744	(1.069)	10205	2.00000	3.42(a)
	64	Styrene	104	8.763	8.759	(1.071)	13304	2.00000	2.16(a)
	66	Bromoform	173	8.916	8.916	(1.090)	2167	2.00000	3.05(Ta)
	67	Isopropylbenzene	105	9.059	9.059	(1.107)	19220	2.00000	2.16(a)
	68	1,1,2,2-Tetrachloroethane	83	9.325	9.329	(0.917)	7882	2.00000	2.40(a)
$	69	4-Bromofluorobenzene	95	9.194	9.190	(1.124)	8164	2.00000	3.06(a)
*	70	1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	197283	50.0000	
	71	1,2,3-Trichloropropane	75	9.359	9.362	(0.920)	7496	2.00000	2.43(aM)
	72	trans-1,4-Dichloro-2-butene	53	9.377	9.377	(1.146)	1441	2.00000	2.27(a)
	73	n-Propylbenzene	91	9.411	9.411	(0.926)	22673	2.00000	2.13(a)
	74	Bromobenzene	156	9.317	9.317	(0.916)	6542	2.00000	2.41(a)
	75	1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	18636	2.00000	2.34(a)
	76	2-Chlorotoluene	91	9.482	9.482	(0.933)	16959	2.00000	2.28(a)

77 4-Chlorotoluene	91	9.576	9.576 (0.942)	17697	2.00000	2.31(a)
78 tert-Butylbenzene	119	9.835	9.835 (0.967)	12758	2.00000	2.13(aM)

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052905.D Page 3
Report Date: 07-Jun-2024 10:54

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
79	1,2,4-Trimethylbenzene	105	9.876	9.876	(0.971)	30038	2.00000	2.37(a)
81	sec-Butylbenzene	105	10.018	10.022	(0.985)	16983	2.00000	2.09(a)
82	p-Isopropyltoluene	119	10.146	10.146	(0.998)	14816	2.00000	2.09(a)
83	1,3-Dichlorobenzene	146	10.116	10.116	(0.995)	10883	2.00000	2.37(aM)
84	1,4-Dichlorobenzene	146	10.187	10.191	(1.002)	12375	2.00000	2.43(a)
86	Benzyl Chloride	91	10.311	10.311	(1.260)	7262	2.00000	3.61(a)
87	n-Butylbenzene	91	10.491	10.491	(1.032)	14661	2.00000	2.58(a)
88	1,2-Dichlorobenzene	146	10.506	10.502	(1.033)	11285	2.00000	2.37(aM)
89	1,2-Dibromo-3-Chloropropane	155	11.165	11.165	(1.098)	786	2.00000	2.76(a)
90	1,2,4-Trichlorobenzene	180	11.855	11.855	(1.166)	6993	2.00000	2.33(a)
91	Hexachlorobutadiene	225	11.994	11.998	(1.180)	2656	2.00000	2.21(a)
92	Naphthalene	128	12.069	12.065	(1.187)	19031	2.00000	2.50(a)
93	1,2,3-Trichlorobenzene	180	12.268	12.268	(1.206)	6570	2.00000	2.35(a)
146	Methyl acetate	43	2.708	2.708	(0.563)	6657	2.00000	3.18(a)
138	Freon TF	101	2.322	2.326	(0.483)	2974	2.00000	2.33(a)
141	Cyclohexane	56	4.808	4.778	(0.999)	9727	2.00000	2.48(aM)
142	Tetrahydrofuran	42	4.541	4.542	(0.944)	2424	4.00000	4.07(a)
147	Methylcyclohexane	55	5.944	5.944	(1.072)	9698	2.00000	2.49(a)
135	1,4-Dioxane	88	6.168	6.168	(1.282)	1835	40.0000	48.49
132	n-Butanol	56	5.827	5.827	(1.211)	3416	40.0000	44.38(a)
136	n-Hexane	57	3.327	3.331	(0.691)	3412	2.00000	2.44(a)
139	Diethyl ether	59	2.135	2.139	(0.444)	4189	2.00000	2.25(a)
148	Tert-butyl alcohol	59	2.967	2.975	(0.617)	12205	40.0000	44.84
149	Isopropyl alcohol	45	2.558	2.570	(0.532)	9638	40.0000	49.60(T)
152	Amyl alcohol	42	7.402	7.398	(0.905)	3250	40.0000	59.14
156	Diisopropyl ether	45	3.616	3.619	(0.751)	16950	2.00000	2.32(Ta)
162	Butyl acrylate	55	8.736	8.733	(1.068)	8351	2.00000	2.98(a)
187	n-Amyl acetate	43	8.931	8.931	(1.092)	8608	2.00000	2.13(aM)
164	Dicyclopentadiene	66	10.198	10.198	(1.003)	19618	2.00000	1.93(a)
166	1,2,3-Trimethylbenzene	105	10.232	10.232	(1.006)	17012	2.00000	3.17(a)
167	Ethanol	45	2.075	2.086	(0.431)	1764	40.0000	44.78
172	tert-Butyl formate	59	5.239	5.250	(1.089)	10522	4.00000	4.66(a)
173	3,3-Dimethyl-1-butanol	57	7.780	7.784	(0.951)	12619	40.0000	48.81(M)
174	tert-Amyl methyl ether	73	5.284	5.284	(1.098)	15149	2.00000	2.26(a)
175	tert-Butyl ethyl ether	59	4.043	4.047	(0.840)	15172	2.00000	2.32(a)
176	tert-Amyl alcohol	59	5.239	5.250	(1.089)	10522	40.0000	46.08
151	4-Methyl-2-pentanol	45	7.214	7.222	(1.301)	29478	40.0000	56.62
140	1,3-Butadiene	54	1.393	1.396	(0.290)	2130	2.00000	2.01(a)
182	Epichlorohydrin	57	6.630	6.630	(1.195)	1272	8.00000	10.41(M)
M 94	1,2-Dichloroethylene (total)	96				11070	4.00000	(a)
130	Ethyl Acetate	43	4.339	4.339	(0.902)	6040	2.00000	2.29(a)
131	Methyl Acrylate	55	4.369	4.365	(0.908)	7361	2.00000	2.66(a)
189	n-Butyl acetate	43	7.705	7.702	(0.942)	8434	2.00000	2.16(a)
134	Cyclohexanone	55	9.152	9.152	(0.900)	6019	40.0000	64.26(a)
185	Isoprene	39	2.150	2.146	(0.447)	950	2.00000	2.77(a)
188	Isopropyl acetate	43	5.280	5.284	(0.952)	15467	2.00000	2.22(a)
150	Allyl alcohol	57	3.327	3.331	(0.691)	3412	40.0000	48.81
194	Acetaldehyde	44	1.453	1.453	(0.302)	4005	8.00000	8.06(M)
195	Methyl Amyl Ketone	43	8.871	8.868	(1.084)	10259	2.00000	2.26(a)
200	Dimethyl Disulfide	94	6.742	6.746	(0.824)	1744	2.00000	5.88
202	Isobutylene	41	1.741	1.734	(0.362)	1892	2.00000	1.51(aM)
133	Ethyl Acrylate	55	5.944	5.944	(1.235)	9698	2.00000	2.43(a)

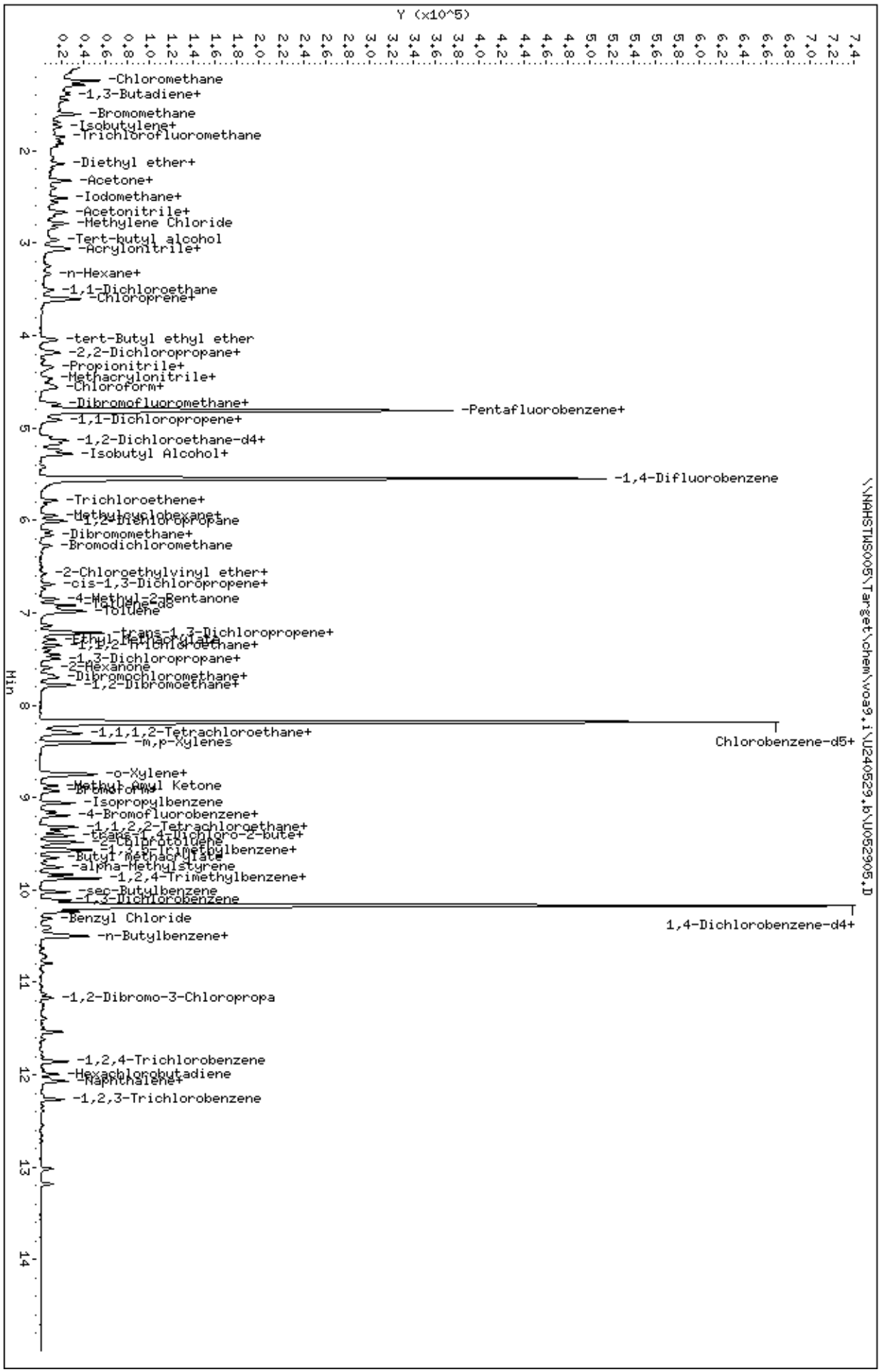
163 Butyl methacrylate	41	9.647	9.647 (0.949)	4545	2.00000	1.99(a)
159 Propylene oxide	43	2.191	2.191 (0.455)	1149	4.00000	6.04

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052905.D Page 4
Report Date: 07-Jun-2024 10:54

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
203 2-Ethylhexyl Acrylate	55	12.043	12.039	(1.184)	3471	2.00000	2.80(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\voa9,i\U240529,b\U052905,D
Date : 29-MAY-2024 11:43
Client ID: VSTD002
Sample Info: VSTD002;VSTD0021;4
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9,i
Operator: FT
Column diameter: 0.18

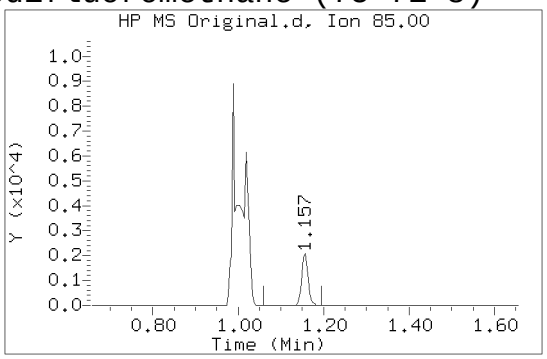
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Inj Date : 29-MAY-2024 11:43
InstruID : VOA9.i
LabSampID : VSTD002

Dichlorodifluoromethane (75-71-8)

Reason Code:

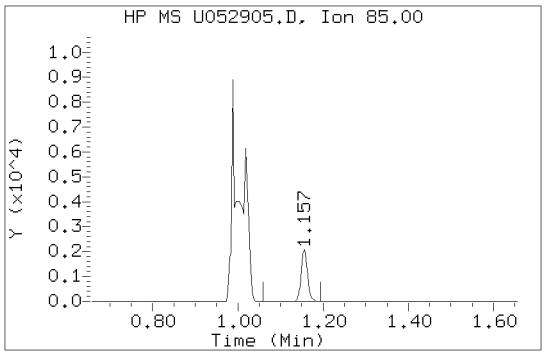
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06-Jun-2024
17:10
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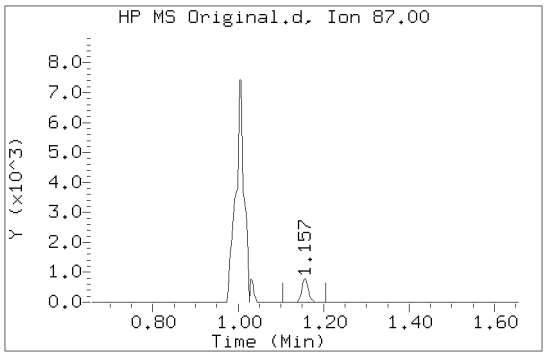
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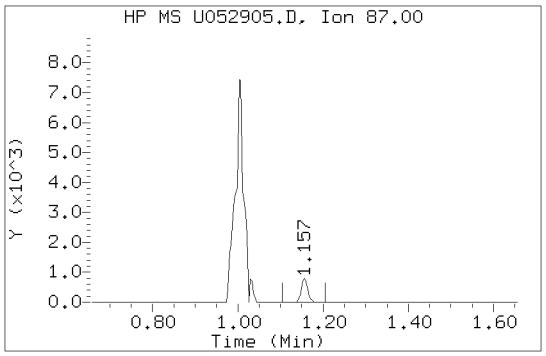
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AFTER

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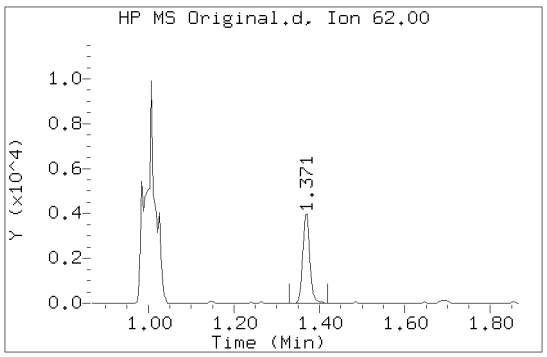


Vinyl Chloride (75-01-4)

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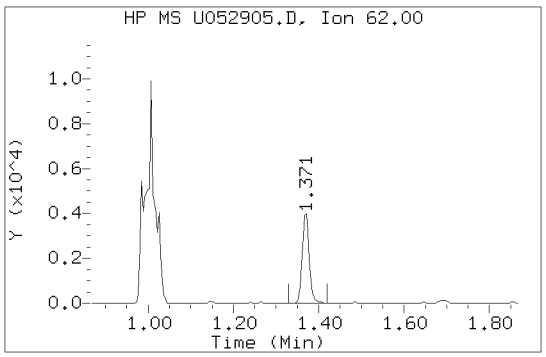
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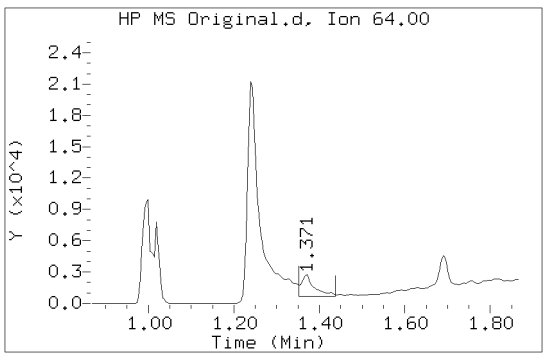
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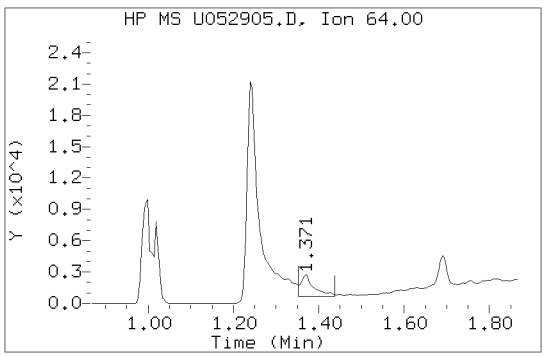
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AFTER

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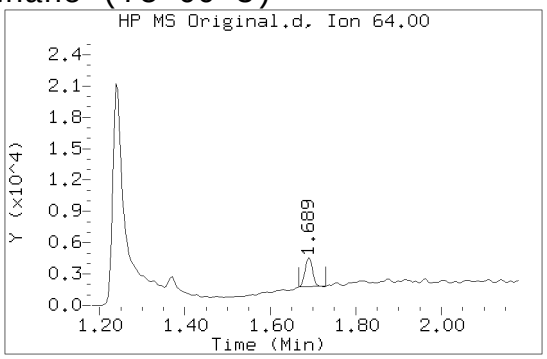


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LabSampID : VSTD002

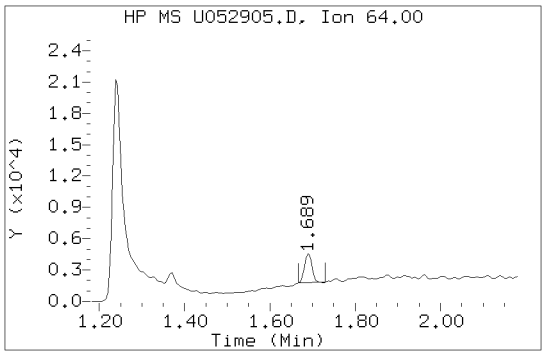
Chloroethane (75-00-3)

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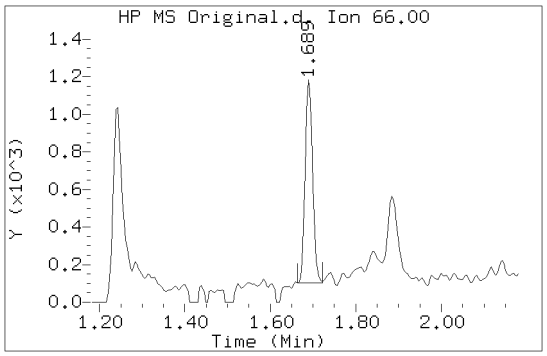
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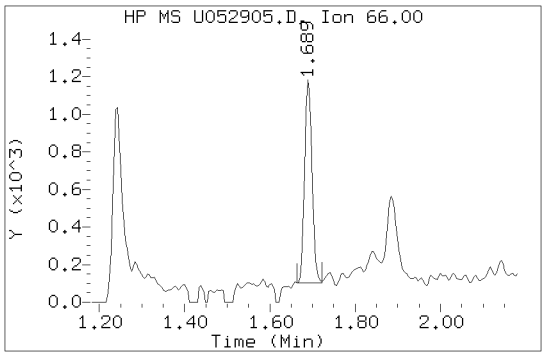
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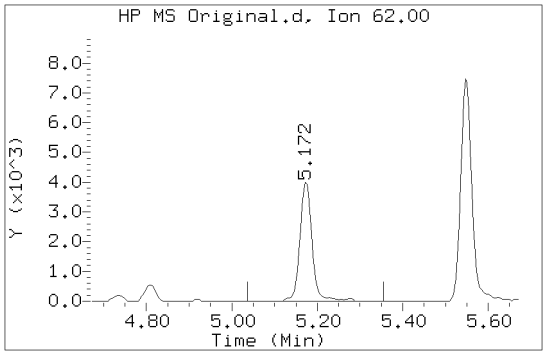
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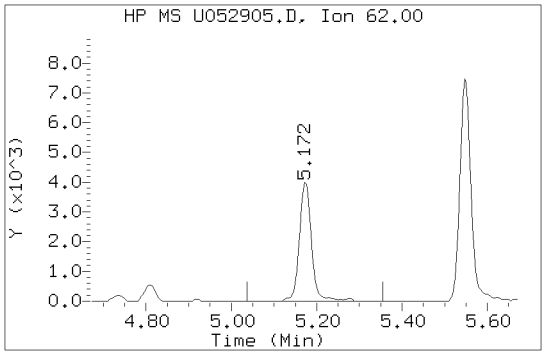
1,2-Dichloroethane (107-06-2)

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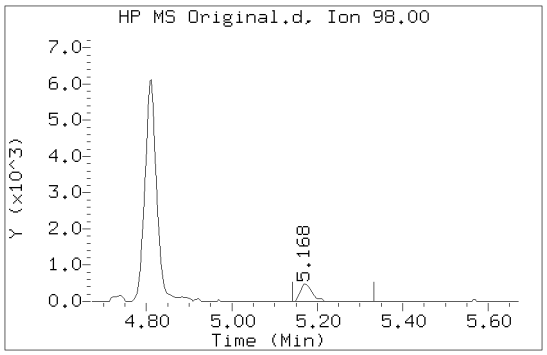
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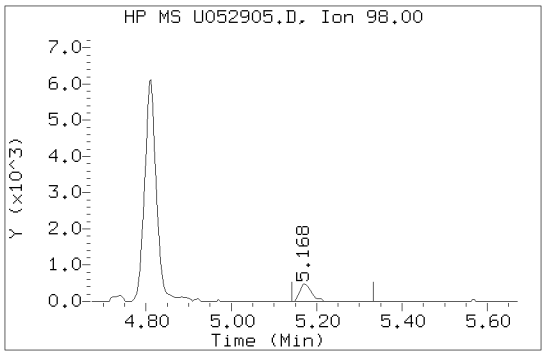
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AFTER
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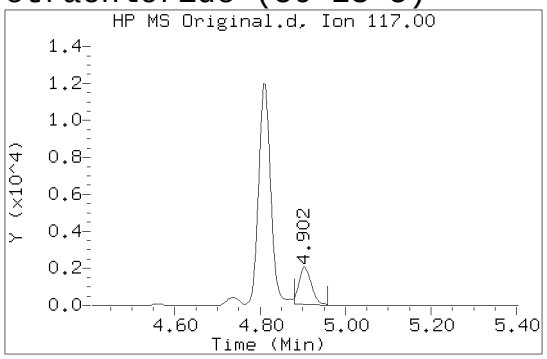


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LabSampID : VSTD002

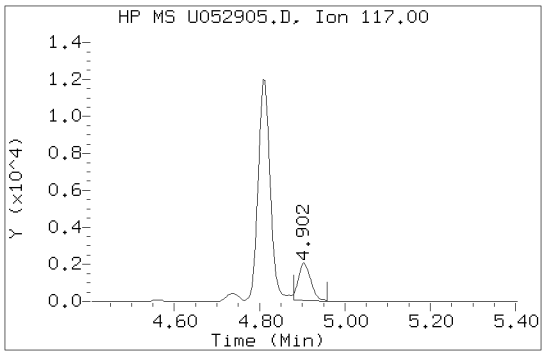
Carbon Tetrachloride (56-23-5)

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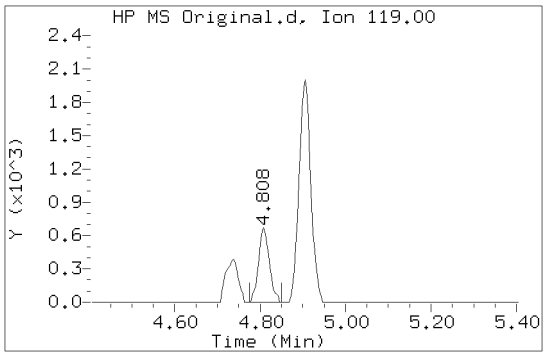
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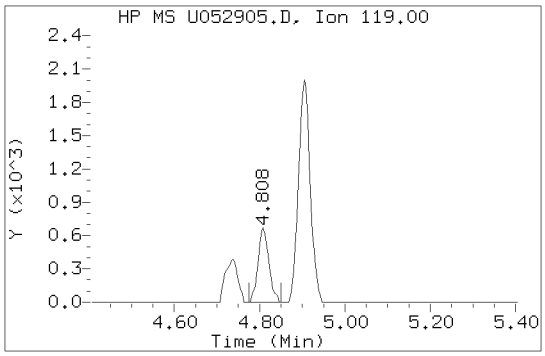
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BEFORE
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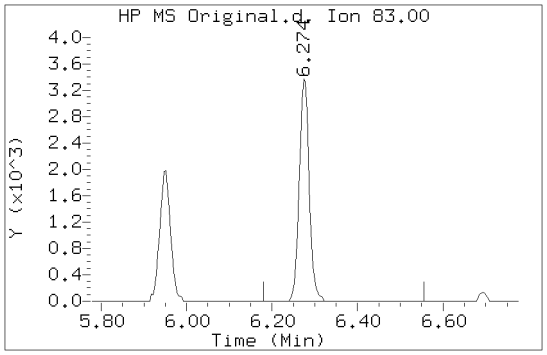
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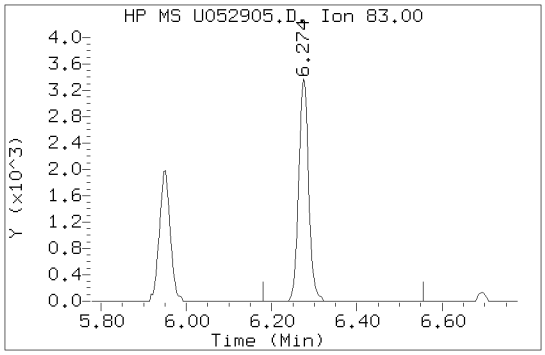
Bromodichloromethane (75-27-4)

Reason Code:

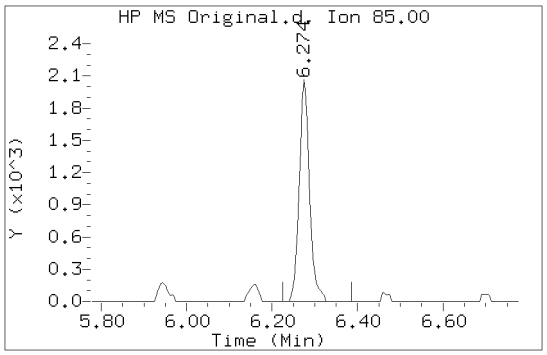
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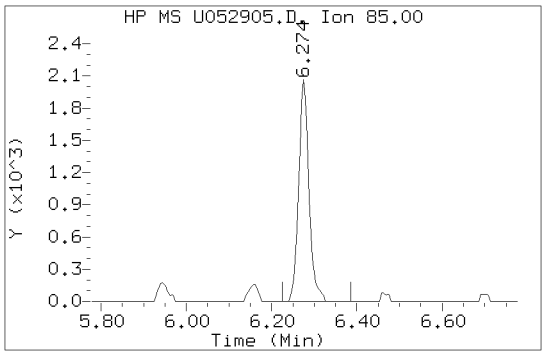
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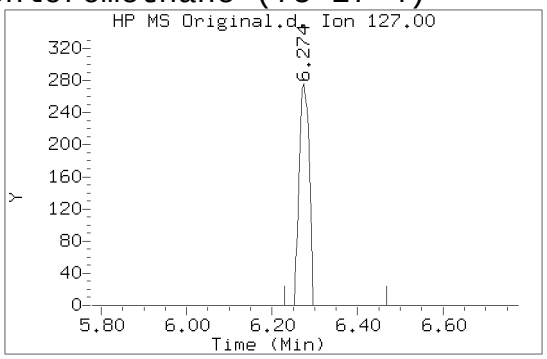


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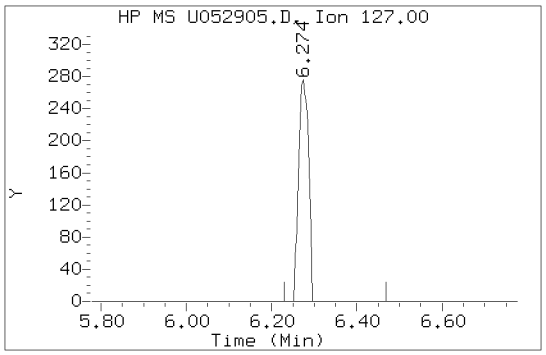
Bromodichloromethane (75-27-4)

Reason Code:

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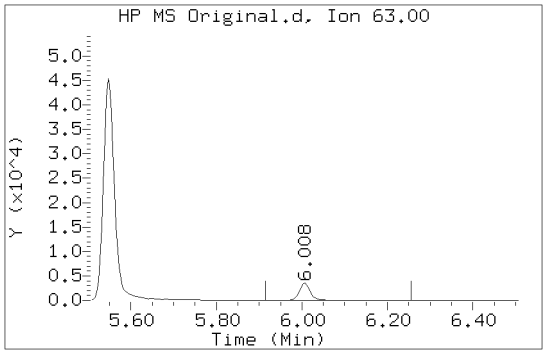
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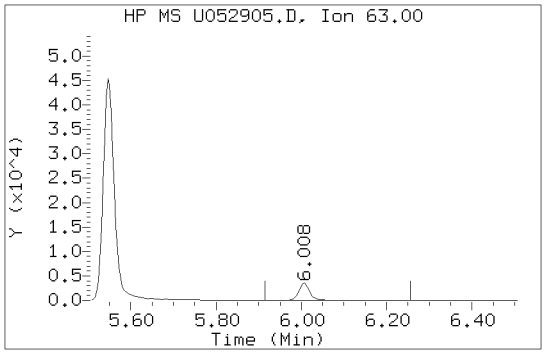
1,2-Dichloropropane (78-87-5)

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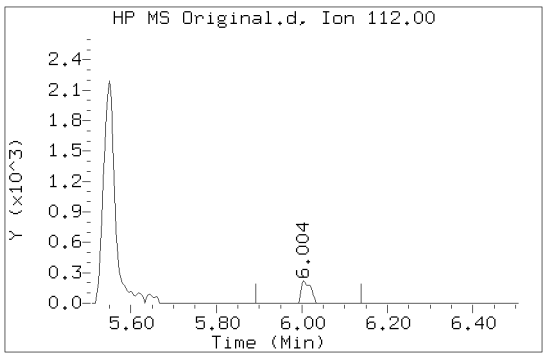
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s
zaid



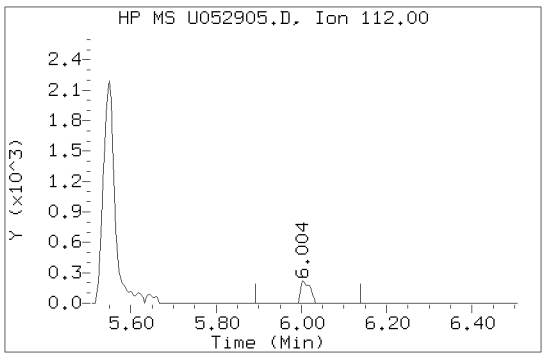
AFTER
MASS
63
AREA
6290
HEIGHT
3505
07-Jun-2024
10:36



BEFORE
MASS
112
AREA
345
HEIGHT
224
06-Jun-2024
17:10
s
zaid



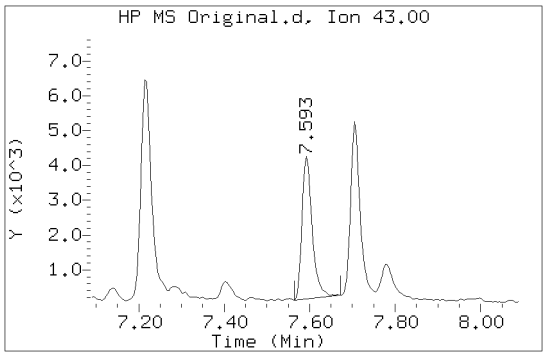
AFTER
MASS
112
AREA
345
HEIGHT
224
07-Jun-2024
10:36



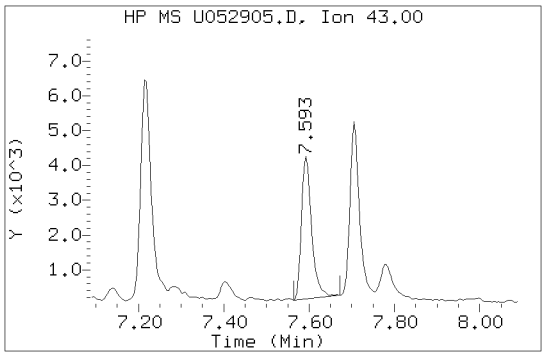
2-Hexanone (591-78-6)

Reason Code:

BEFORE
MASS
43
AREA
6895
HEIGHT
4089
06-Jun-2024
17:10
s
zaid



AFTER
MASS
43
AREA
6895
HEIGHT
4089
07-Jun-2024
10:36

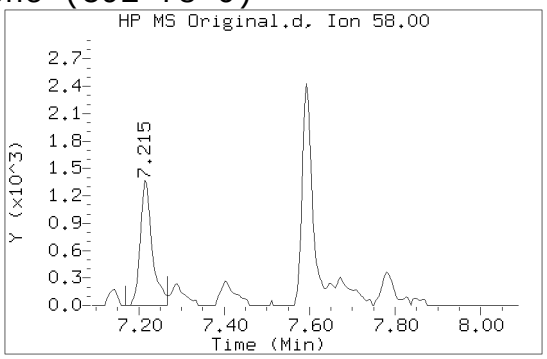


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Inj Date : 29-MAY-2024 11:43
InstruID : VOA9.i
LabSampID : VSTD002

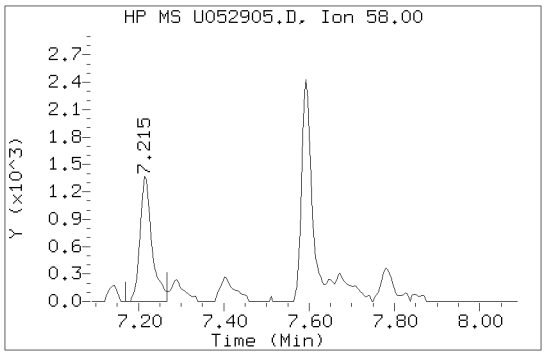
2-Hexanone (591-78-6)

Reason Code:

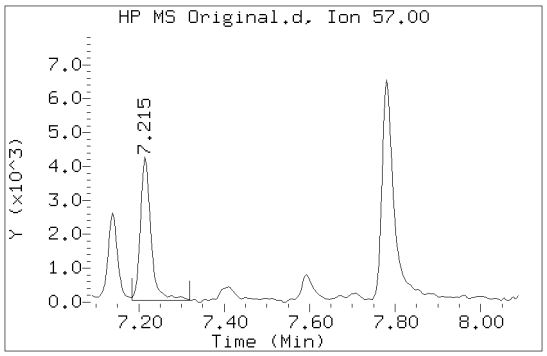
BEFORE
MASS
58
AREA
2669
HEIGHT
1369
06-Jun-2024
17:10
s
zaid



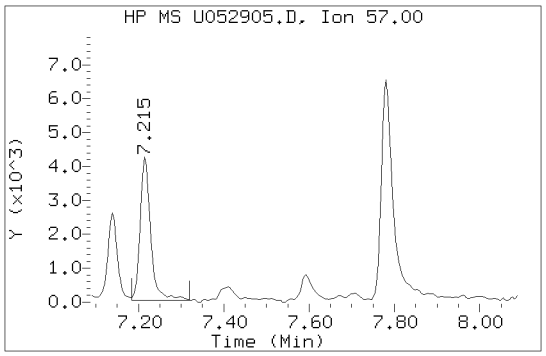
AFTER
MASS
58
AREA
2669
HEIGHT
1369
07-Jun-2024
10:36



BEFORE
MASS
57
AREA
7224
HEIGHT
4221
06-Jun-2024
17:10
s
zaid



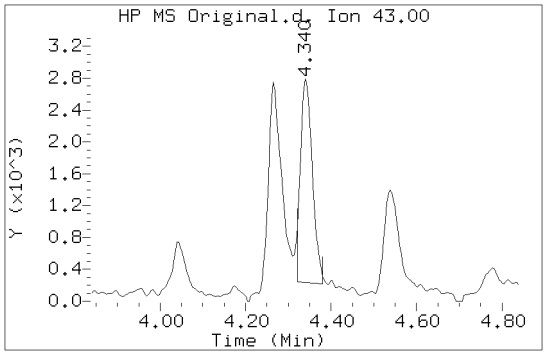
AFTER
MASS
57
AREA
7224
HEIGHT
4221
07-Jun-2024
10:36



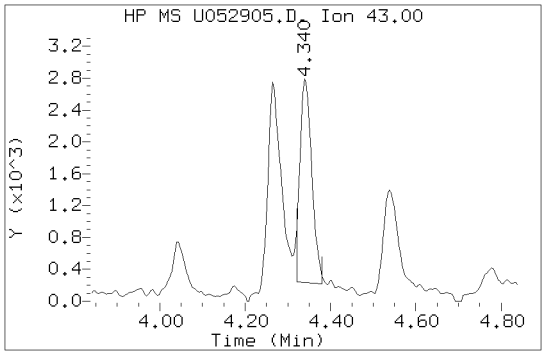
Vinyl Acetate (108-05-4)

Reason Code:

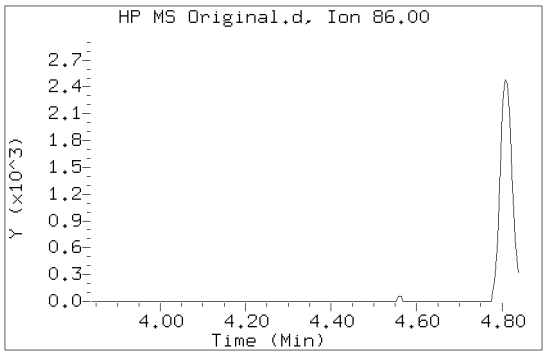
BEFORE
MASS
43
AREA
5050
HEIGHT
2552
06-Jun-2024
17:10
s
zaid



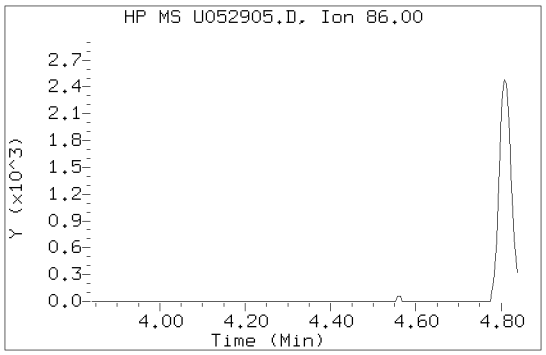
AFTER
MASS
43
AREA
5050
HEIGHT
2552
07-Jun-2024
10:36



BEFORE
MASS
86
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



AFTER
MASS
86
AREA
0
HEIGHT
0
07-Jun-2024
10:36



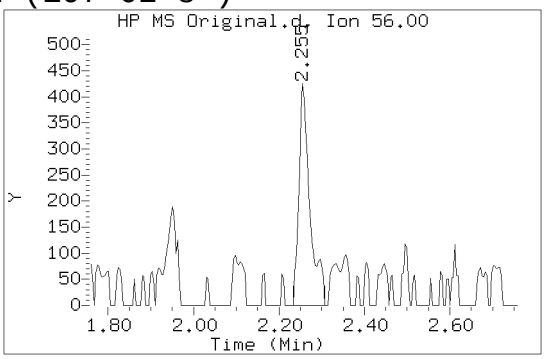
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052905.D
Inj Date : 29-MAY-2024 11:43
InstruID : VOA9.i
LabSampID : VSTD002

Acrolein (107-02-8)

Reason Code:

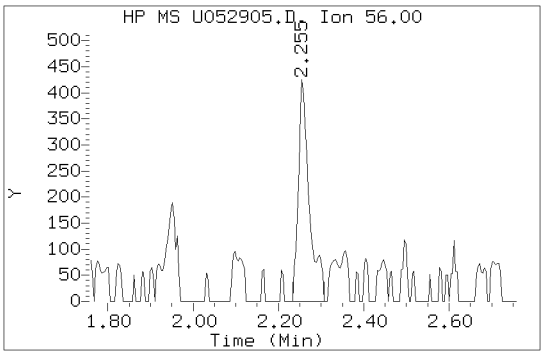
BEFORE

MASS
56
AREA
772
HEIGHT
425
06-Jun-2024
17:10
s
zaid



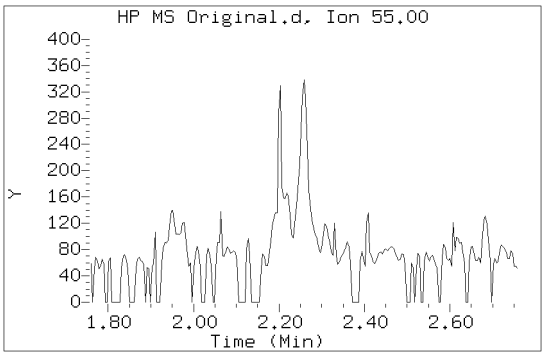
AFTER

MASS
56
AREA
772
HEIGHT
425
07-Jun-2024
10:36



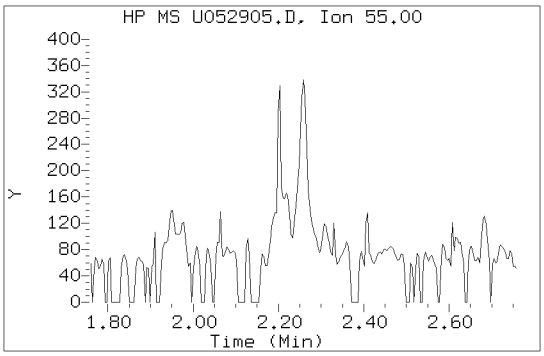
BEFORE

MASS
55
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



AFTER

MASS
55
AREA
0
HEIGHT
0
07-Jun-2024
10:36

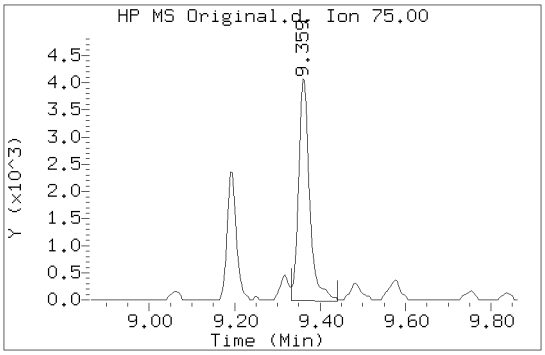


1,2,3-Trichloropropane (96-18-4)

Reason Code:

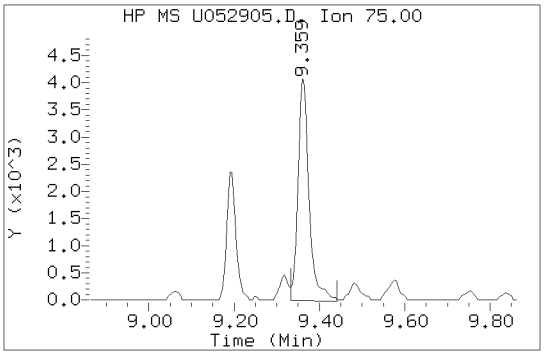
BEFORE

MASS
75
AREA
7496
HEIGHT
4077
06-Jun-2024
17:10
s
zaid



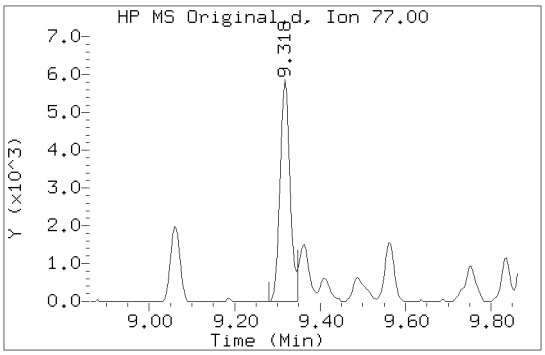
AFTER

MASS
75
AREA
7496
HEIGHT
4077
07-Jun-2024
10:36



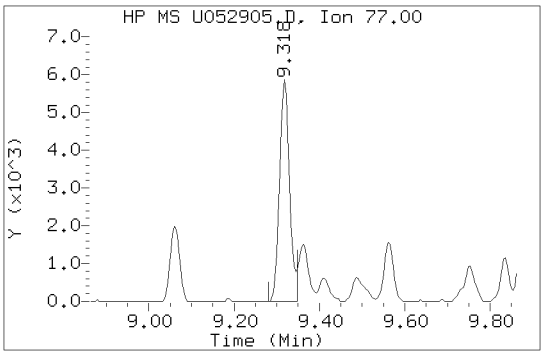
BEFORE

MASS
77
AREA
9657
HEIGHT
5868
06-Jun-2024
17:10
s
zaid



AFTER

MASS
77
AREA
9657
HEIGHT
5868
07-Jun-2024
10:36

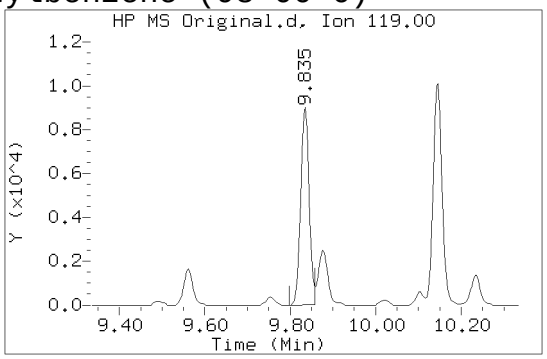


Data File : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052905.D
Inj Date : 29-MAY-2024 11:43
InstruID : VOA9.i
LabSampID : VSTD002

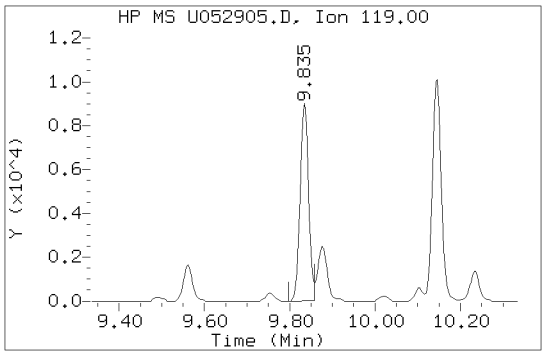
tert-Butylbenzene (98-06-6)

Reason Code:

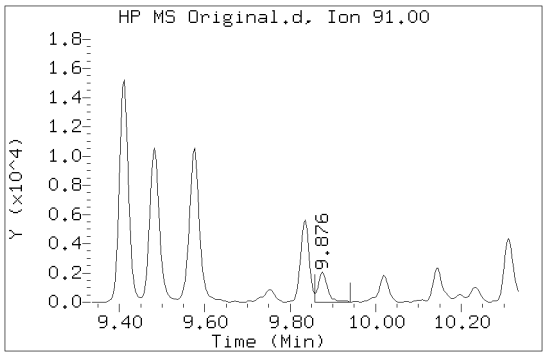
BEFORE
MASS
119
AREA
12758
HEIGHT
9033
06-Jun-2024
17:10
s
zaid



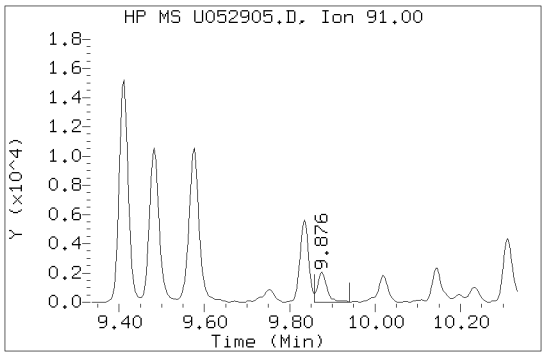
AFTER
MASS
119
AREA
12758
HEIGHT
9033
07-Jun-2024
10:36



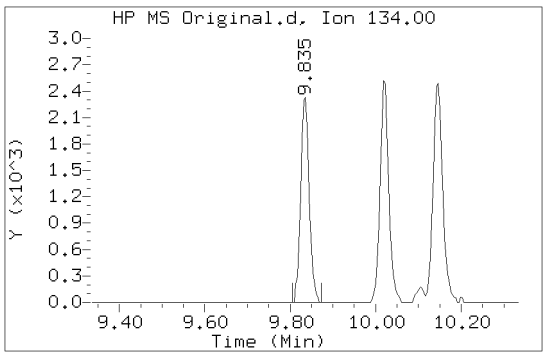
BEFORE
MASS
91
AREA
3225
HEIGHT
2074
06-Jun-2024
17:10
s
zaid



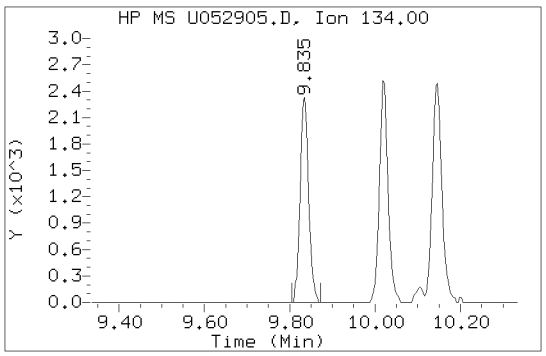
AFTER
MASS
91
AREA
3225
HEIGHT
2074
07-Jun-2024
10:36



BEFORE
MASS
134
AREA
3289
HEIGHT
2329
06-Jun-2024
17:10
s
zaid



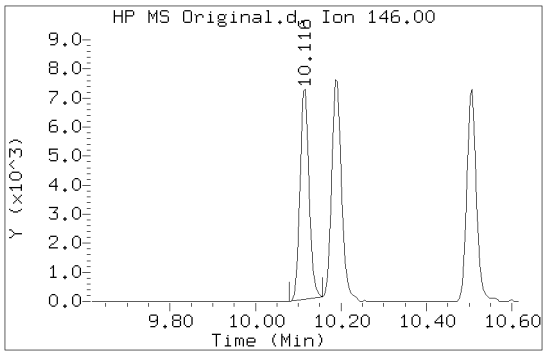
AFTER
MASS
134
AREA
3289
HEIGHT
2329
07-Jun-2024
10:36



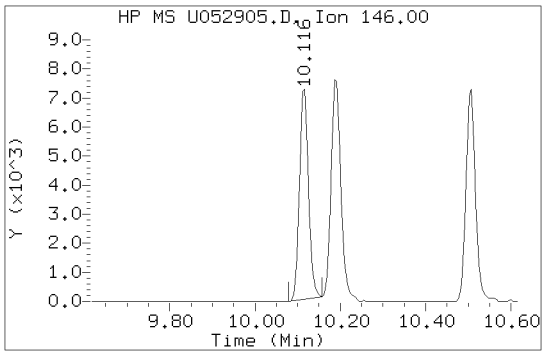
1,3-Dichlorobenzene (541-73-1)

Reason Code:

BEFORE
MASS
146
AREA
10883
HEIGHT
7221
06-Jun-2024
17:10
s
zaid



AFTER
MASS
146
AREA
10883
HEIGHT
7221
07-Jun-2024
10:36



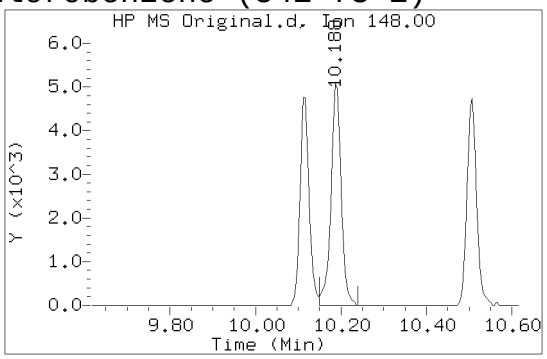
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052905.D
Inj Date : 29-MAY-2024 11:43
InstruID : VOA9.i
LabSampID : VSTD002

1,3-Dichlorobenzene (541-73-1)

Reason Code:

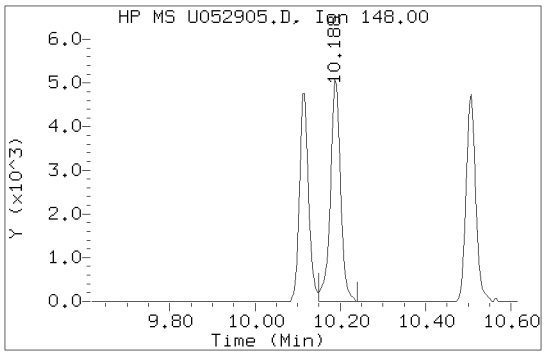
BEFORE

MASS
148
AREA
8420
HEIGHT
5076
06-Jun-2024
17:10
s
zaid



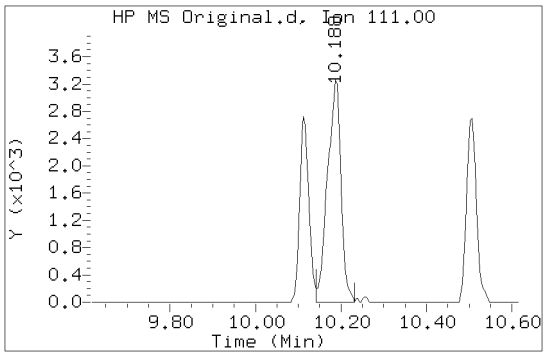
AFTER

MASS
148
AREA
8420
HEIGHT
5076
07-Jun-2024
10:36



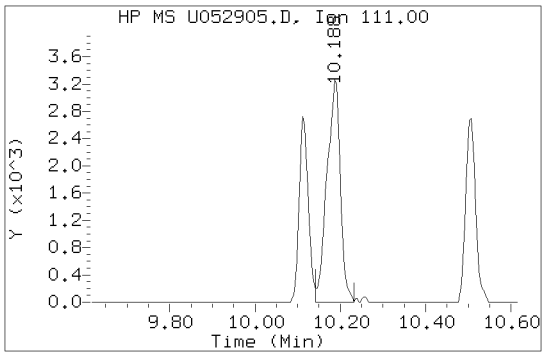
BEFORE

MASS
111
AREA
7121
HEIGHT
3260
06-Jun-2024
17:10
s
zaid



AFTER

MASS
111
AREA
7121
HEIGHT
3260
07-Jun-2024
10:36

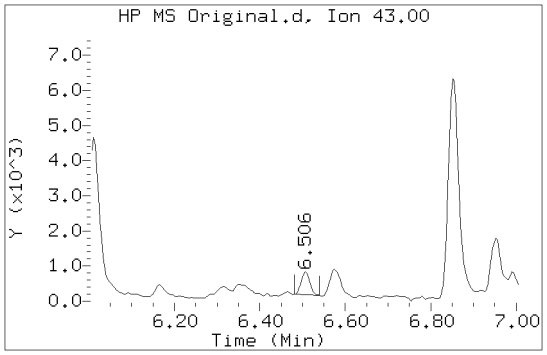


2-Nitropropane (79-46-9)

Reason Code:

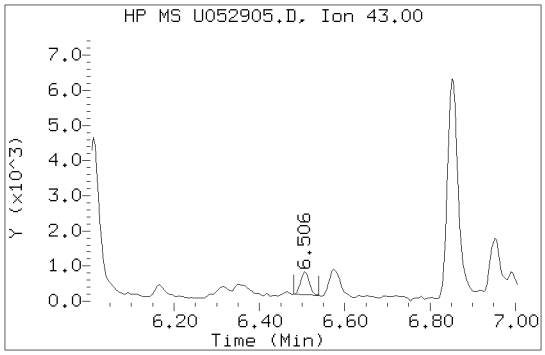
BEFORE

MASS
43
AREA
922
HEIGHT
660
06-Jun-2024
17:10
s
zaid



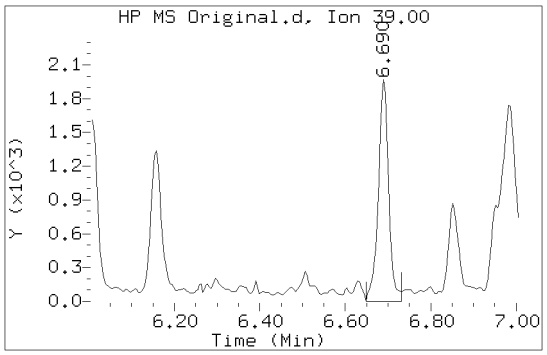
AFTER

MASS
43
AREA
922
HEIGHT
660
07-Jun-2024
10:36



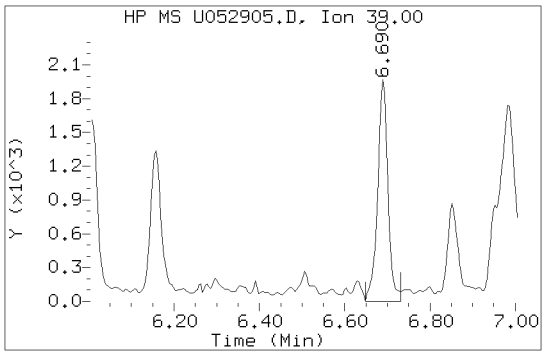
BEFORE

MASS
39
AREA
3294
HEIGHT
1968
06-Jun-2024
17:10
s
zaid



AFTER

MASS
39
AREA
3294
HEIGHT
1968
07-Jun-2024
10:36



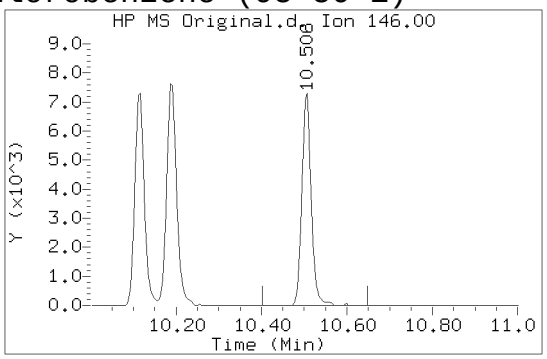
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052905.D
Inj Date : 29-MAY-2024 11:43
InstruID : VOA9.i
LabSampID : VSTD002

1,2-Dichlorobenzene (95-50-1)

Reason Code:

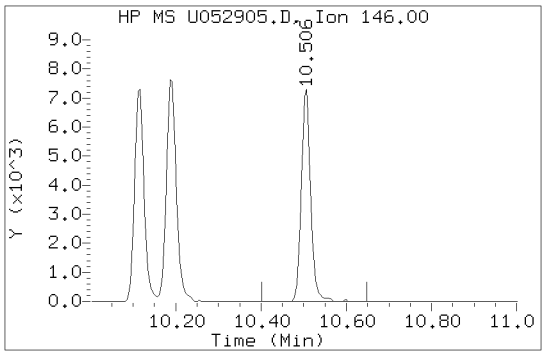
BEFORE

MASS
146
AREA
11285
HEIGHT
7311
06-Jun-2024
17:10
s
zaid



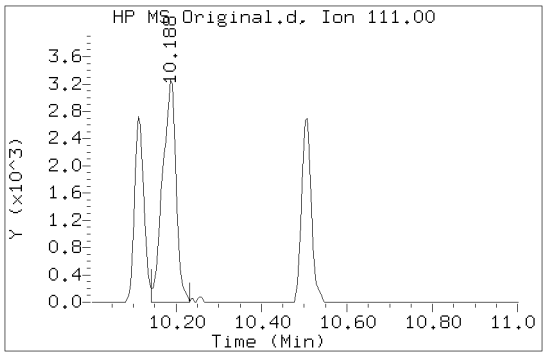
AFTER

MASS
146
AREA
11285
HEIGHT
7311
07-Jun-2024
10:36



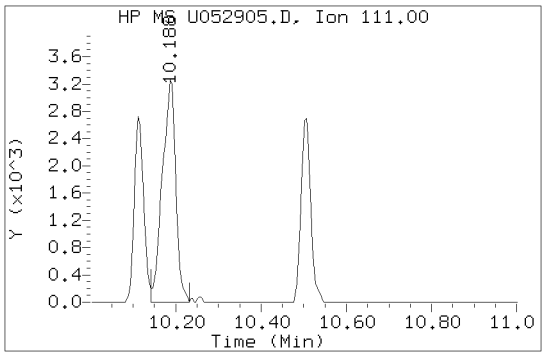
BEFORE

MASS
111
AREA
7121
HEIGHT
3260
06-Jun-2024
17:10
s
zaid



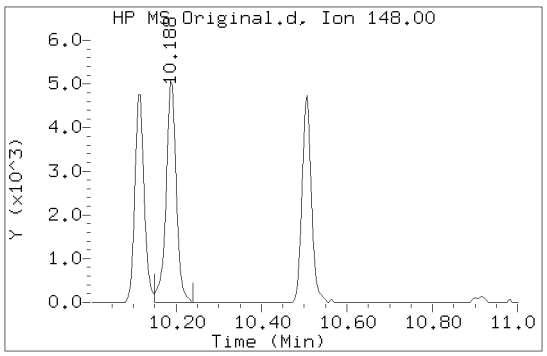
AFTER

MASS
111
AREA
7121
HEIGHT
3260
07-Jun-2024
10:36



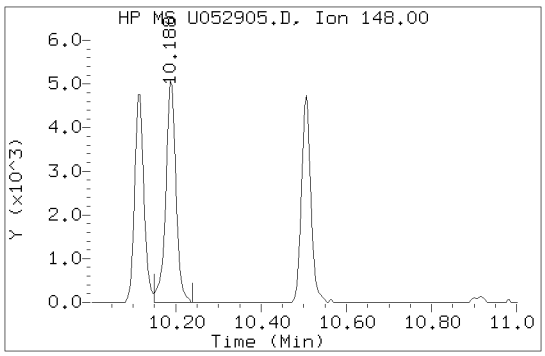
BEFORE

MASS
148
AREA
8420
HEIGHT
5076
06-Jun-2024
17:10
s
zaid



AFTER

MASS
148
AREA
8420
HEIGHT
5076
07-Jun-2024
10:36

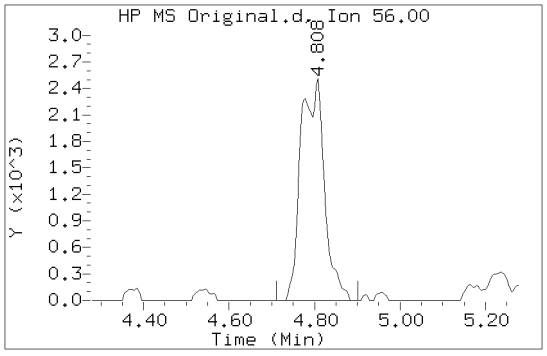


Cyclohexane (110-82-7)

Reason Code:

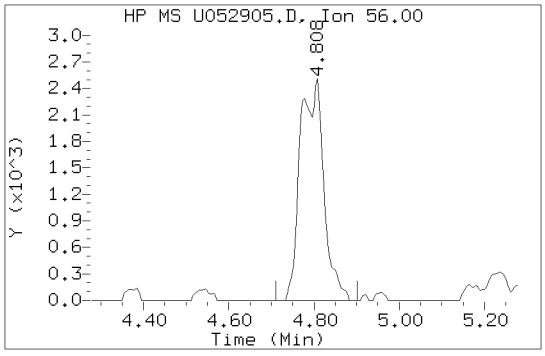
BEFORE

MASS
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2510
06-Jun-2024
17:10
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AFTER

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AREA
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HEIGHT
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07-Jun-2024
10:36

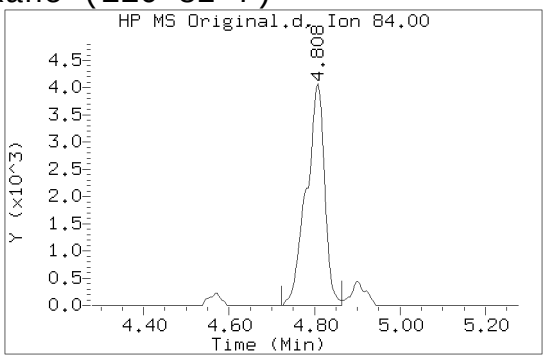


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InstruID : VOA9.i
LabSampID : VSTD002

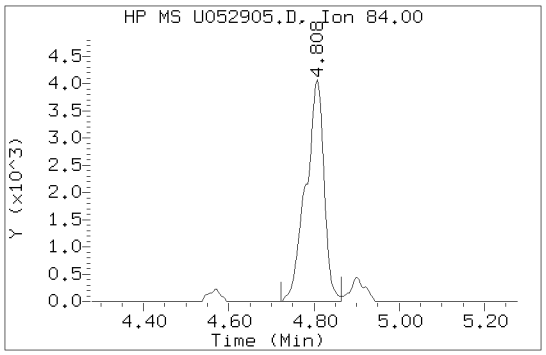
Cyclohexane (110-82-7)

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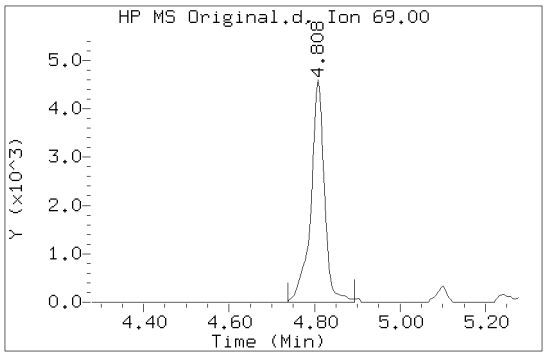
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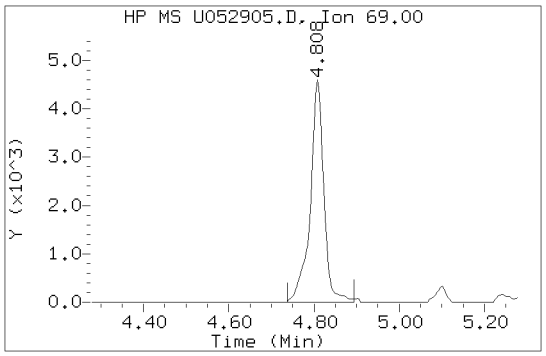
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17:10
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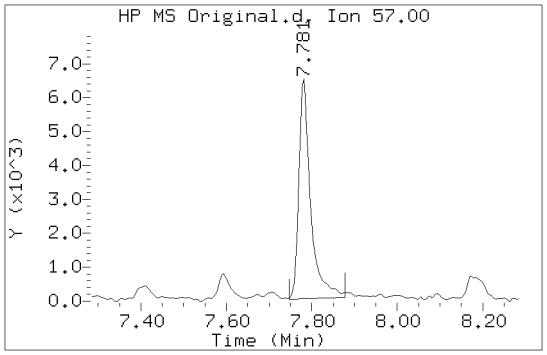
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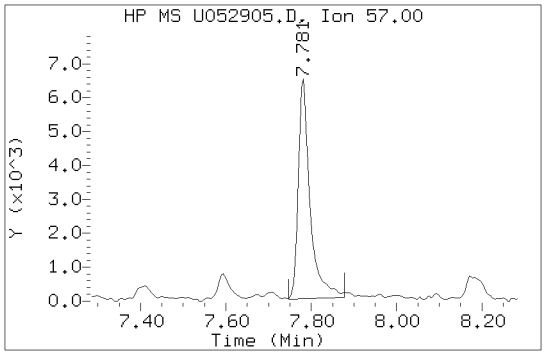
3,3-Dimethyl-1-butanol (624-95-3)

Reason Code:

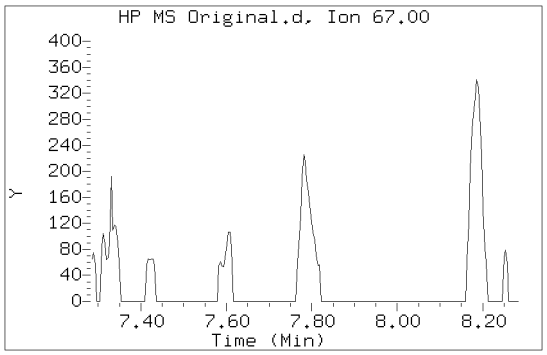
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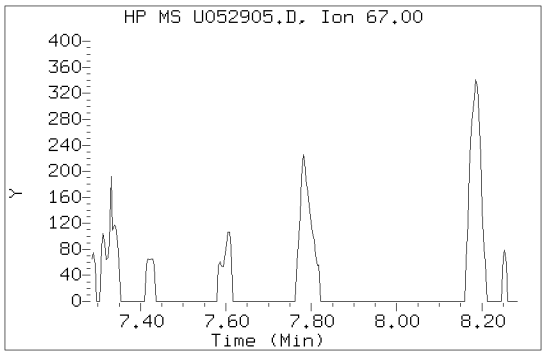
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6478
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10:36



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zaid



AFTER
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HEIGHT
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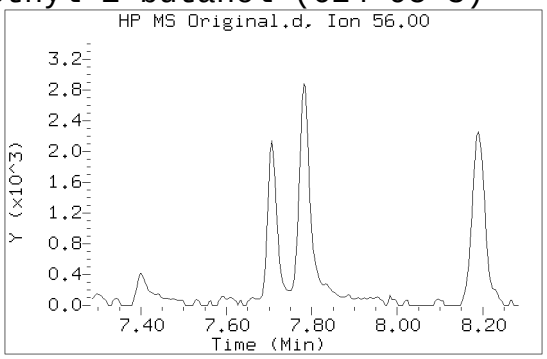


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Inj Date : 29-MAY-2024 11:43
InstruID : VOA9.i
LabSampID : VSTD002

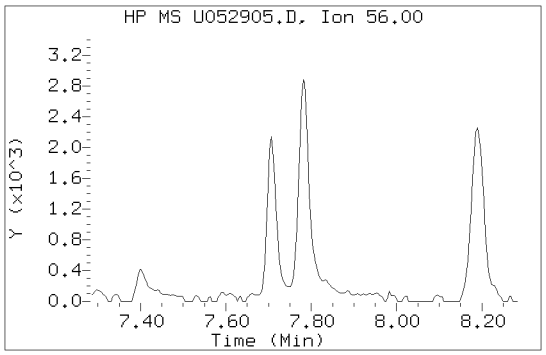
3,3-Dimethyl-1-butanol (624-95-3)

Reason Code:

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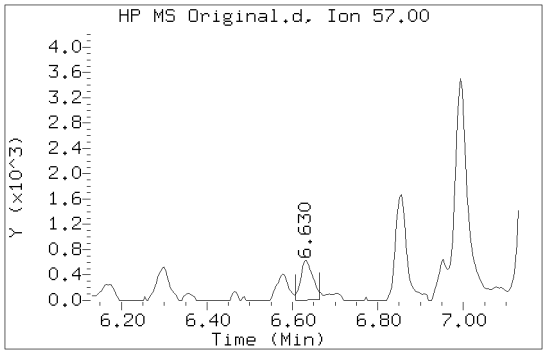
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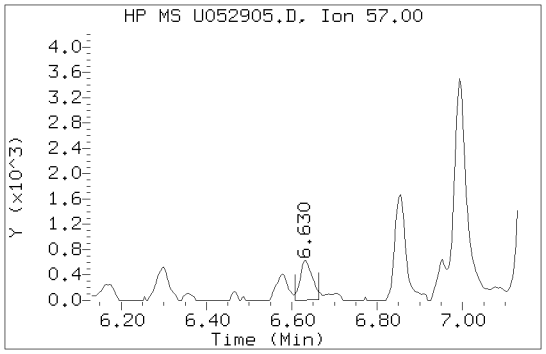
Epichlorohydrin (106-89-8)

Reason Code:

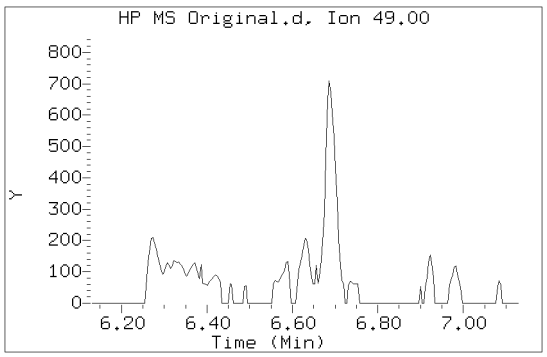
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626
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zaid



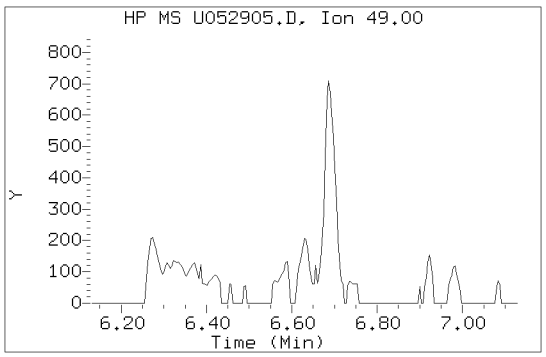
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HEIGHT
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10:36



BEFORE
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HEIGHT
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06-Jun-2024
17:10
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zaid



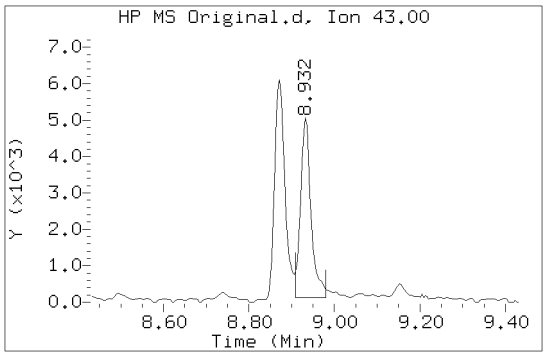
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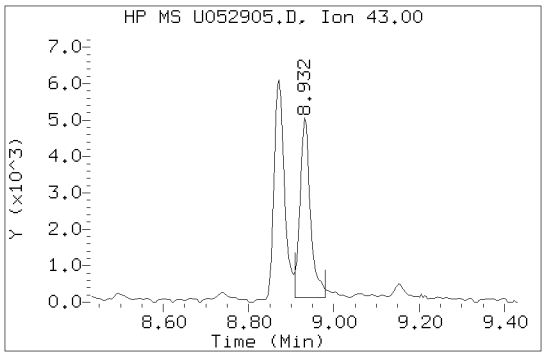
n-Amyl acetate (628-63-7)

Reason Code:

BEFORE
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4942
06-Jun-2024
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s
zaid



AFTER
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4942
07-Jun-2024
10:36

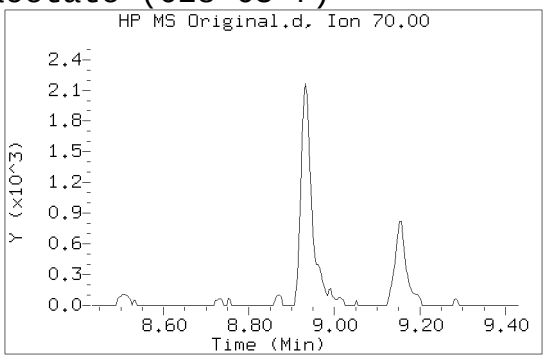


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Inj Date : 29-MAY-2024 11:43
InstruID : VOA9.i
LabSampID : VSTD002

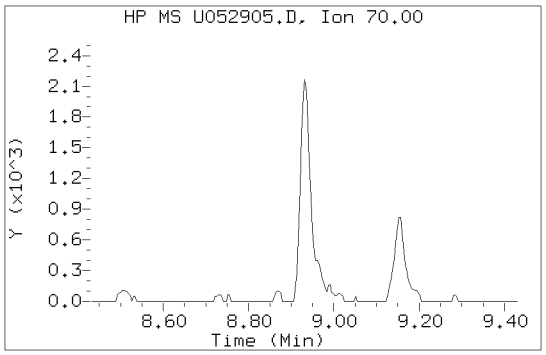
n-Amyl acetate (628-63-7)

Reason Code:

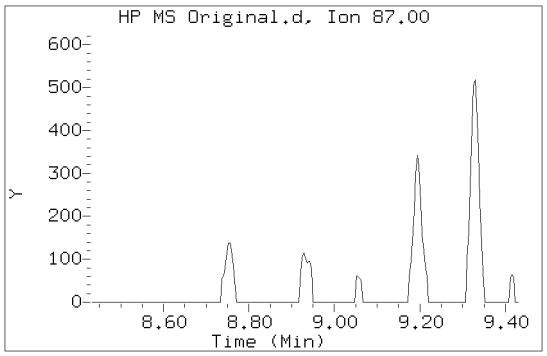
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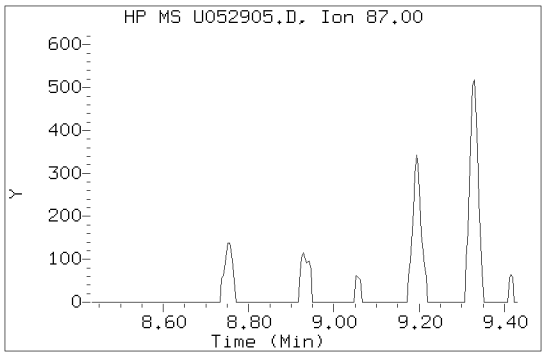
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10:36



BEFORE
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0
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0
06-Jun-2024
17:10
s
zaid



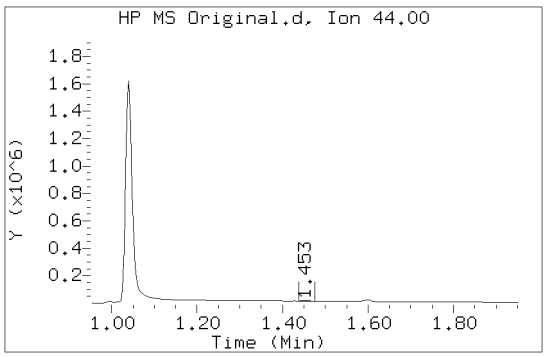
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07-Jun-2024
10:36



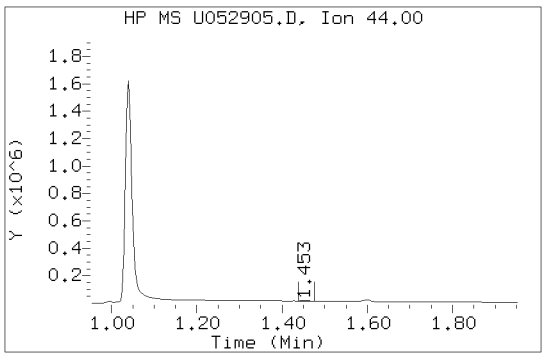
Acetaldehyde (75-07-0)

Reason Code:

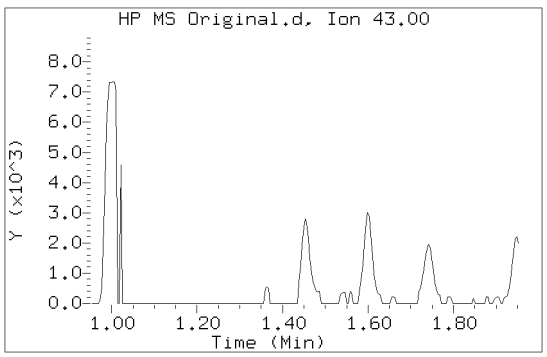
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3930
06-Jun-2024
17:10
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zaid



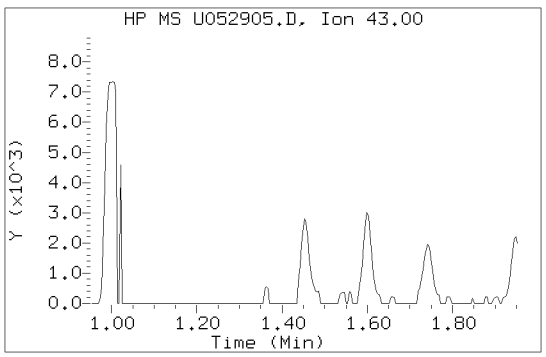
AFTER
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AREA
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HEIGHT
3930
07-Jun-2024
10:36



BEFORE
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0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



AFTER
MASS
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AREA
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HEIGHT
0
07-Jun-2024
10:36



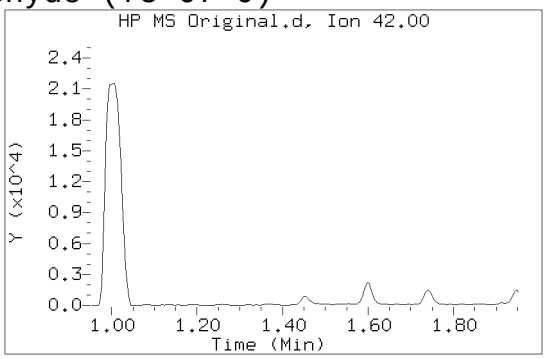
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Inj Date : 29-MAY-2024 11:43
InstruID : VOA9.i
LabSampID : VSTD002

Acetaldehyde (75-07-0)

Reason Code:

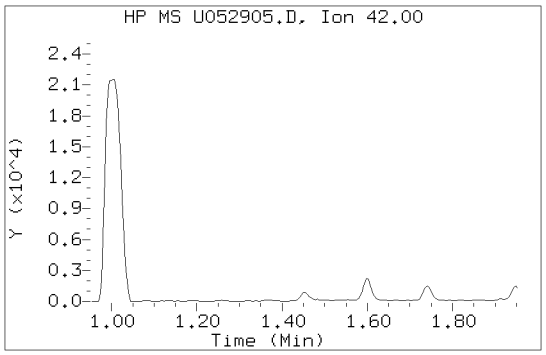
BEFORE

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17:10
s
zaid



AFTER

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HEIGHT
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07-Jun-2024
10:36

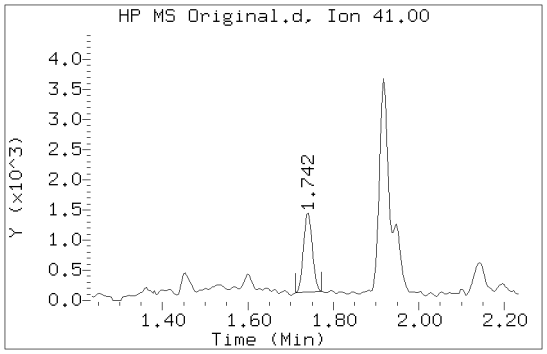


Isobutylene (115-11-7)

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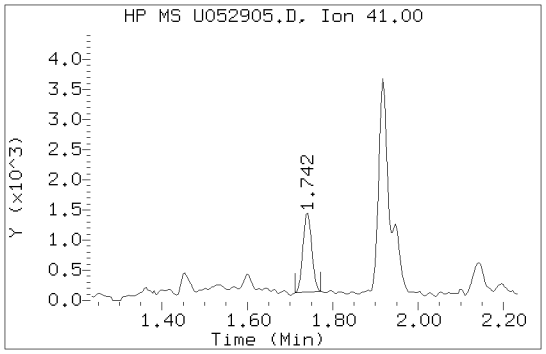
BEFORE

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1311
06-Jun-2024
17:10
s
zaid



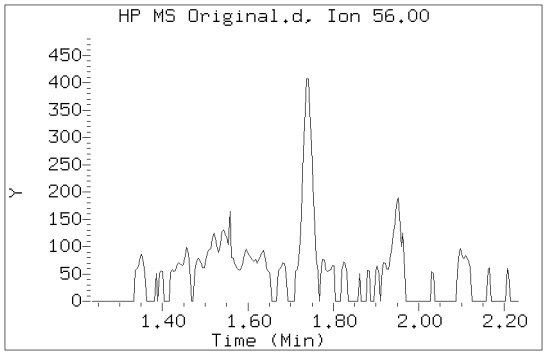
AFTER

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07-Jun-2024
10:36



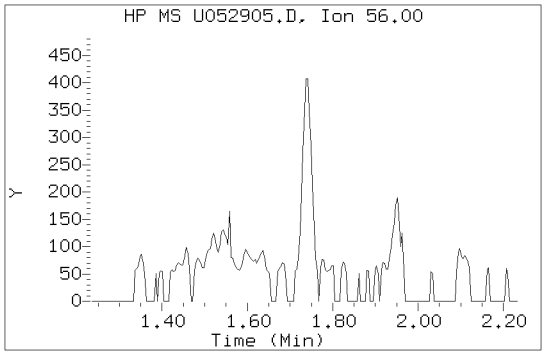
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06-Jun-2024
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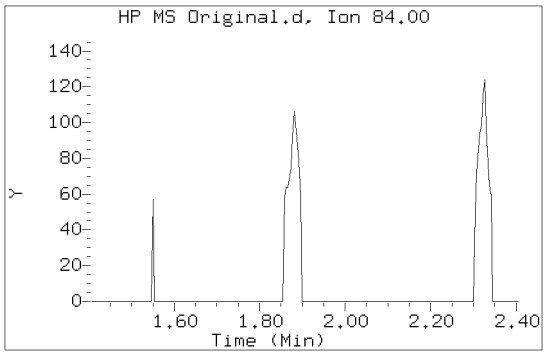
AFTER

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07-Jun-2024
10:36



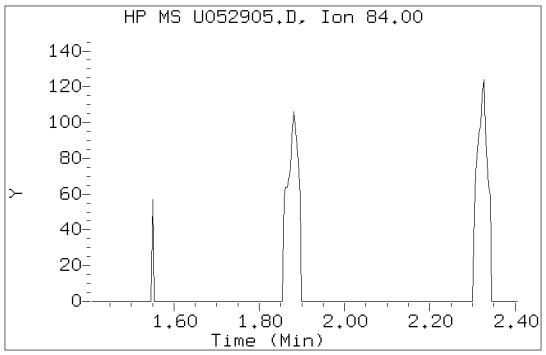
BEFORE

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84
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06-Jun-2024
17:10
s
zaid



AFTER

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84
AREA
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HEIGHT
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07-Jun-2024
10:36



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052906.D Page 1
Report Date: 07-Jun-2024 10:54

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052906.D
Lab Smp Id: VSTD005 Client Smp ID: VSTD005
Inj Date : 29-MAY-2024 12:05
Operator : FT Inst ID: VOA9.i
Smp Info : VSTD005;VSTD005;1;5
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240529.b\8260C.m
Meth Date : 07-Jun-2024 10:14 r.patel Quant Type: ISTD
Cal Date : 29-MAY-2024 12:05 Cal File: U052906.D
Als bottle: 6 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14

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	4.815	4.811	(1.000)	284725	50.0000	
2	Dichlorodifluoromethane	85	1.168	1.156	(0.243)	5755	5.00000	5.42(M)
3	Chloromethane	50	1.299	1.288	(0.270)	21844	5.00000	5.10
4	Propionitrile	54	4.343	4.339	(0.902)	17004	50.0000	49.86(a)
5	Vinyl Chloride	62	1.381	1.366	(0.287)	10603	5.00000	4.93(M)
6	Bromomethane	94	1.618	1.595	(0.336)	6167	5.00000	4.80
7	Chloroethane	64	1.704	1.681	(0.354)	8259	5.00000	5.34(M)
8	Trichlorofluoromethane	101	1.899	1.884	(0.394)	13728	5.00000	5.37
9	Acrolein	56	2.266	2.259	(0.471)	1464	10.0000	12.29(a)
10	Acetone	43	2.412	2.405	(0.501)	11049	10.0000	11.23
11	1,1-Dichloroethene	96	2.334	2.322	(0.485)	9505	5.00000	5.06
12	Isobutyl Alcohol	43	5.284	5.284	(1.097)	29987	100.000	88.05(a)
13	Acetonitrile	39	2.671	2.663	(0.555)	11564	50.0000	50.06(a)
14	Allyl Chloride	41	2.675	2.667	(0.556)	29273	5.00000	5.15(a)
15	Iodomethane	142	2.469	2.457	(0.513)	2162	10.0000	9.34(T)
16	Acrylonitrile	53	3.068	3.061	(0.637)	8324	10.0000	9.69
17	Methylene Chloride	84	2.795	2.783	(0.580)	13562	5.00000	5.06
18	Methyl tert-butyl ether	73	3.083	3.076	(0.640)	28791	5.00000	5.12
19	Carbon Disulfide	76	2.521	2.510	(0.524)	48970	10.0000	9.30
20	trans-1,2-Dichloroethene	96	3.057	3.050	(0.635)	10326	5.00000	4.86
21	Vinyl Acetate	43	4.347	4.339	(0.903)	9536	10.0000	7.59(M)

22 1,1-Dichloroethane	63	3.514	3.507 (0.730)	18686	5.00000	4.58
23 Chloroprene	53	3.608	3.601 (0.749)	14926	5.00000	4.99(a)

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052906.D Page 2
Report Date: 07-Jun-2024 10:54

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	24 2-Butanone	43	4.272	4.260	(0.887)	10743	10.0000	8.44
	25 Methacrylonitrile	41	4.500	4.489	(0.935)	6036	5.00000	4.56(a)
	26 2,2-Dichloropropane	77	4.185	4.174	(0.869)	12425	5.00000	4.64
	27 cis-1,2-Dichloroethene	96	4.197	4.189	(0.872)	11931	5.00000	4.55
	28 Chloroform	83	4.575	4.568	(0.950)	18694	5.00000	4.59
	29 Bromochloromethane	128	4.470	4.463	(0.928)	6036	5.00000	5.25
$	30 Dibromofluoromethane	113	4.748	4.744	(0.986)	9474	5.00000	4.87
	31 1,1,1-Trichloroethane	97	4.740	4.736	(0.984)	13454	5.00000	4.71
	32 1,1-Dichloropropene	75	4.920	4.916	(0.886)	14692	5.00000	4.92
	33 1,2-Dichloroethane	62	5.175	5.171	(0.932)	15306	5.00000	5.53(M)
	34 Carbon Tetrachloride	117	4.909	4.905	(0.884)	10732	5.00000	4.59(M)
$	35 1,2-Dichloroethane-d4	65	5.096	5.093	(1.058)	11774	5.00000	5.76
*	36 1,4-Difluorobenzene	114	5.554	5.550	(1.000)	411950	50.0000	
	37 Benzene	78	5.138	5.134	(0.925)	44829	5.00000	4.62
	38 Trichloroethene	130	5.786	5.786	(1.042)	11283	5.00000	4.72(a)
	39 Bromodichloromethane	83	6.277	6.277	(1.130)	10936	5.00000	4.19(a)
	40 Methyl Methacrylate	41	5.827	5.827	(1.210)	4802	5.00000	5.27(a)
	41 2-Chloroethylvinyl ether	63	6.577	6.573	(1.184)	5106	10.0000	9.28
	42 1,2-Dichloropropane	63	6.007	6.007	(1.082)	11260	5.00000	4.39(aM)
	43 2-Nitropropane	43	6.510	6.506	(1.352)	1819	5.00000	5.51(M)
	44 Dibromomethane	93	6.120	6.116	(1.102)	6505	5.00000	4.37(a)
	45 4-Methyl-2-Pentanone	43	6.855	6.851	(0.838)	21975	10.0000	9.32
	46 cis-1,3-Dichloropropene	75	6.693	6.690	(1.205)	13035	5.00000	4.65(a)
*	47 Chlorobenzene-d5	117	8.182	8.185	(1.000)	372525	50.0000	
$	48 Toluene-d8	98	6.922	6.918	(0.846)	36100	5.00000	5.26
	49 Ethyl Methacrylate	69	7.289	7.289	(1.312)	14235	5.00000	4.46(a)
	50 Toluene	91	6.982	6.978	(0.853)	43888	5.00000	4.34(a)
	51 trans-1,3-Dichloropropene	75	7.196	7.196	(1.296)	9852	5.00000	4.64(a)
	52 2-Hexanone	43	7.593	7.589	(0.928)	12848	10.0000	9.63(M)
	53 1,1,2-Trichloroethane	83	7.353	7.353	(0.899)	8641	5.00000	4.57(a)
	54 1,3-Dichloropropane	76	7.496	7.499	(0.916)	18280	5.00000	4.43(a)
	55 Dibromochloromethane	129	7.690	7.690	(0.940)	7567	5.00000	4.39(a)
	56 Tetrachloroethene	164	7.454	7.454	(0.911)	8433	5.00000	4.77(a)
	57 1,2-Dibromoethane	107	7.784	7.784	(0.951)	9614	5.00000	4.32(a)
	58 1-Chlorohexane	55	8.193	8.196	(1.475)	11209	5.00000	5.83
	59 Chlorobenzene	112	8.208	8.208	(1.003)	29257	5.00000	4.55(a)
	60 1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	8768	5.00000	4.27(a)
	61 Ethylbenzene	106	8.305	8.305	(1.015)	14250	5.00000	4.87(a)
	62 m,p-Xylenes	106	8.406	8.406	(1.027)	39064	10.0000	9.49(a)
	63 o-Xylene	106	8.744	8.744	(1.069)	17958	5.00000	5.39
	64 Styrene	104	8.763	8.759	(1.071)	26246	5.00000	4.25(a)
	66 Bromoform	173	8.916	8.916	(1.090)	4403	5.00000	4.63(Ta)
	67 Isopropylbenzene	105	9.059	9.059	(1.107)	40665	5.00000	4.57(a)
	68 1,1,2,2-Tetrachloroethane	83	9.325	9.329	(0.917)	15063	5.00000	4.54(a)
$	69 4-Bromofluorobenzene	95	9.194	9.190	(1.124)	14171	5.00000	5.38
*	70 1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	199318	50.0000	
	71 1,2,3-Trichloropropane	75	9.359	9.362	(0.920)	13410	5.00000	4.31(aM)
	72 trans-1,4-Dichloro-2-butene	53	9.377	9.377	(1.146)	2457	5.00000	3.86(a)
	73 n-Propylbenzene	91	9.411	9.411	(0.926)	46926	5.00000	4.36(a)
	74 Bromobenzene	156	9.317	9.317	(0.916)	12506	5.00000	4.56(a)
	75 1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	34885	5.00000	4.60(a)
	76 2-Chlorotoluene	91	9.482	9.482	(0.933)	31374	5.00000	4.63(a)

77 4-Chlorotoluene	91	9.576	9.576 (0.942)	34706	5.00000	4.50(a)
78 tert-Butylbenzene	119	9.835	9.835 (0.967)	27653	5.00000	4.58(aM)

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052906.D Page 3
Report Date: 07-Jun-2024 10:54

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
79	1,2,4-Trimethylbenzene	105	9.876	9.876	(0.971)	43795	5.00000	4.27(a)
81	sec-Butylbenzene	105	10.018	10.022	(0.985)	36640	5.00000	4.47(a)
82	p-Isopropyltoluene	119	10.142	10.146	(0.997)	31131	5.00000	4.36(a)
83	1,3-Dichlorobenzene	146	10.112	10.116	(0.994)	20563	5.00000	4.44(aM)
84	1,4-Dichlorobenzene	146	10.187	10.191	(1.002)	23409	5.00000	4.56(a)
86	Benzyl Chloride	91	10.311	10.311	(1.260)	12197	5.00000	5.26
87	n-Butylbenzene	91	10.491	10.491	(1.032)	28223	5.00000	4.72(a)
88	1,2-Dichlorobenzene	146	10.506	10.502	(1.033)	21652	5.00000	4.51(aM)
89	1,2-Dibromo-3-Chloropropane	155	11.166	11.165	(1.098)	1716	5.00000	5.01
90	1,2,4-Trichlorobenzene	180	11.859	11.855	(1.166)	12545	5.00000	4.15(a)
91	Hexachlorobutadiene	225	11.994	11.998	(1.180)	5266	5.00000	4.34(a)
92	Naphthalene	128	12.069	12.065	(1.187)	32575	5.00000	4.37(a)
93	1,2,3-Trichlorobenzene	180	12.268	12.268	(1.206)	12191	5.00000	4.33(a)
146	Methyl acetate	43	2.716	2.708	(0.564)	11748	5.00000	5.44
138	Freon TF	101	2.337	2.326	(0.485)	7685	5.00000	5.37
141	Cyclohexane	56	4.782	4.778	(0.993)	17154	5.00000	5.39
142	Tetrahydrofuran	42	4.549	4.542	(0.945)	5039	10.0000	10.86
147	Methylcyclohexane	55	5.947	5.944	(1.071)	23229	5.00000	5.22
135	1,4-Dioxane	88	6.172	6.168	(1.282)	3681	100.000	114.87
132	n-Butanol	56	5.827	5.827	(1.210)	6842	100.000	89.20(a)
136	n-Hexane	57	3.338	3.331	(0.693)	9230	5.00000	5.56
139	Diethyl ether	59	2.146	2.139	(0.446)	8354	5.00000	5.17
148	Tert-butyl alcohol	59	2.975	2.975	(0.618)	24373	100.000	111.13
149	Isopropyl alcohol	45	2.570	2.570	(0.534)	17652	100.000	105.12(T)
152	Amyl alcohol	42	7.402	7.398	(0.905)	7303	100.000	109.09
156	Diisopropyl ether	45	3.623	3.619	(0.752)	34889	5.00000	4.79(Ta)
162	Butyl acrylate	55	8.733	8.733	(1.067)	17657	5.00000	5.35
187	n-Amyl acetate	43	8.931	8.931	(1.092)	18695	5.00000	4.62(aM)
164	Dicyclopentadiene	66	10.198	10.198	(1.003)	48465	5.00000	4.74(a)
166	1,2,3-Trimethylbenzene	105	10.232	10.232	(1.006)	35395	5.00000	5.75
167	Ethanol	45	2.086	2.086	(0.433)	3681	100.000	115.80
172	tert-Butyl formate	59	5.243	5.250	(1.089)	21868	10.0000	9.72
173	3,3-Dimethyl-1-butanol	57	7.780	7.784	(0.951)	26557	100.000	102.42
174	tert-Amyl methyl ether	73	5.288	5.284	(1.098)	31679	5.00000	4.75(a)
175	tert-Butyl ethyl ether	59	4.054	4.047	(0.842)	31049	5.00000	4.76(a)
176	tert-Amyl alcohol	59	5.243	5.250	(1.089)	21868	100.000	96.11
151	4-Methyl-2-pentanol	45	7.214	7.222	(1.299)	63851	100.000	109.46
140	1,3-Butadiene	54	1.404	1.396	(0.292)	5559	5.00000	5.27
182	Epichlorohydrin	57	6.630	6.630	(1.194)	2221	20.0000	17.49(M)
M 94	1,2-Dichloroethylene (total)	96				22257	10.0000	(a)
130	Ethyl Acetate	43	4.347	4.339	(0.903)	11342	5.00000	4.32(a)
131	Methyl Acrylate	55	4.377	4.365	(0.909)	13966	5.00000	5.27
189	n-Butyl acetate	43	7.705	7.702	(0.942)	16090	5.00000	4.11(a)
134	Cyclohexanone	55	9.152	9.152	(0.900)	11414	100.000	111.28(a)
185	Isoprene	39	2.157	2.146	(0.448)	2012	5.00000	5.15
188	Isopropyl acetate	43	5.284	5.284	(0.951)	30786	5.00000	4.50(a)
150	Allyl alcohol	57	3.338	3.331	(0.693)	9230	100.000	111.23
194	Acetaldehyde	44	1.464	1.453	(0.304)	8362	20.0000	17.67(M)
195	Methyl Amyl Ketone	43	8.868	8.868	(1.084)	20685	5.00000	4.55(a)
200	Dimethyl Disulfide	94	6.742	6.746	(0.824)	3903	5.00000	6.97
202	Isobutylene	41	1.749	1.734	(0.363)	5256	5.00000	5.57(M)
133	Ethyl Acrylate	55	5.947	5.944	(1.235)	23229	5.00000	5.17

163 Butyl methacrylate	41	9.647	9.647 (0.949)	10406	5.00000	4.51(aM)
159 Propylene oxide	43	2.206	2.191 (0.458)	1607	10.0000	8.97

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052906.D Page 4
Report Date: 07-Jun-2024 10:54

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
203 2-Ethylhexyl Acrylate	55	12.043	12.039	(1.184)	8052	5.00000	4.69(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\voa9.i\U240529.b\U052906.D
Date : 29-MAY-2024 12:05
Client ID: VSTD005
Sample Info: VSTD005;VSTD005;1;5
Purge Volume: 5.0
Column phase: DB624

\\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052906.D

Instrument: VOA9.i
Operator: FT
Column diameter: 0.18

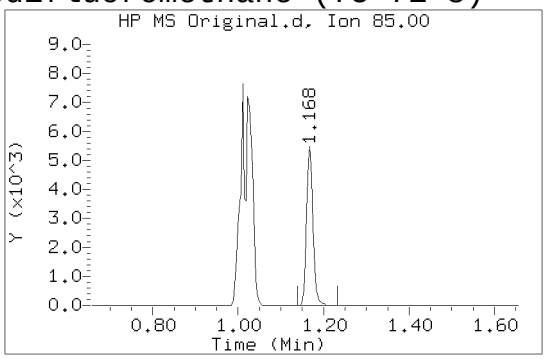
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LabSampID : VSTD005

Dichlorodifluoromethane (75-71-8)

Reason Code:

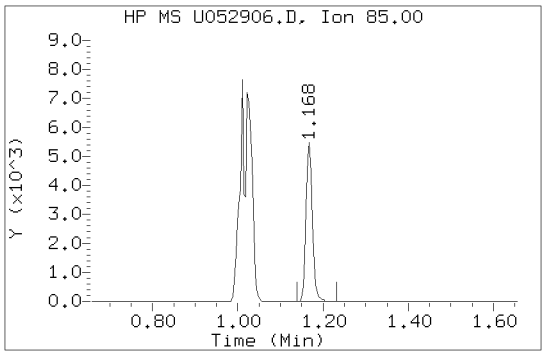
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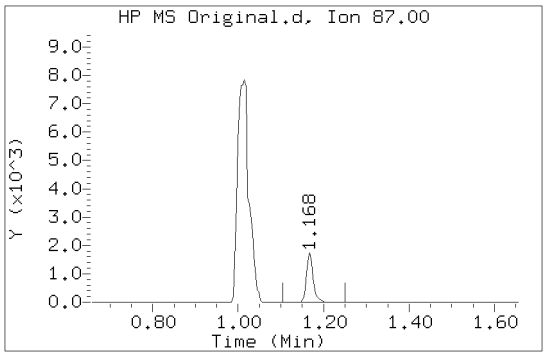
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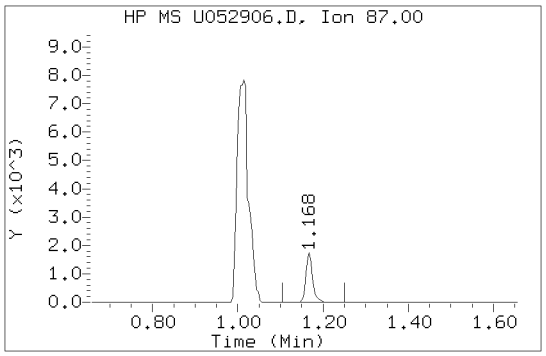
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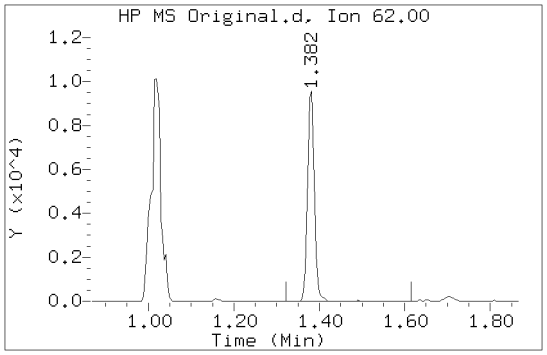


Vinyl Chloride (75-01-4)

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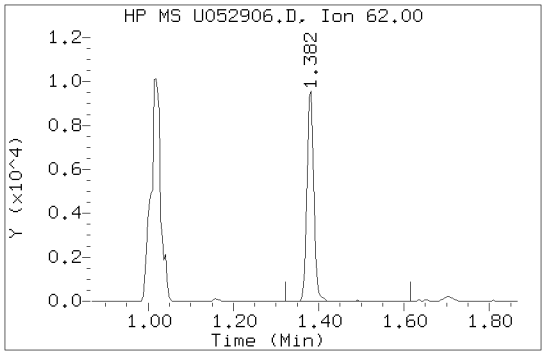
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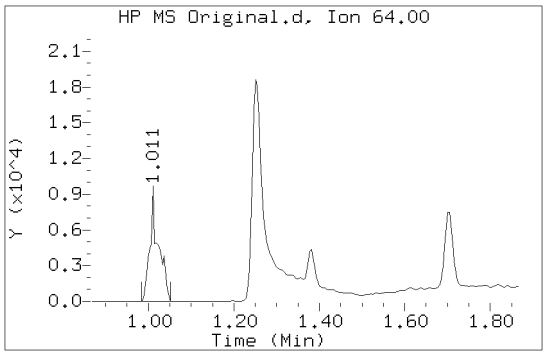
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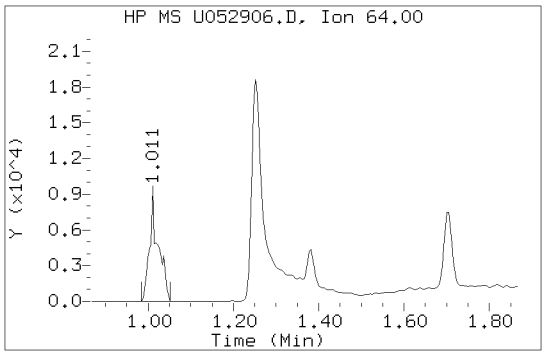
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AFTER

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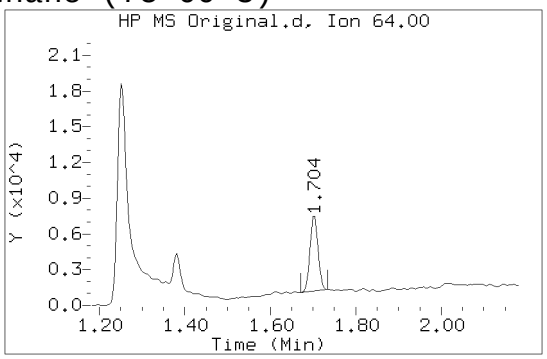
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InstruID : VOA9.i
LabSampID : VSTD005

Chloroethane (75-00-3)

Reason Code:

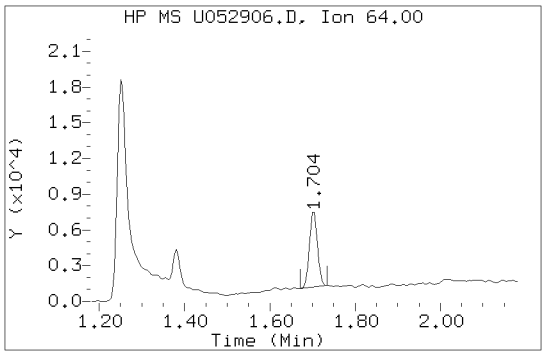
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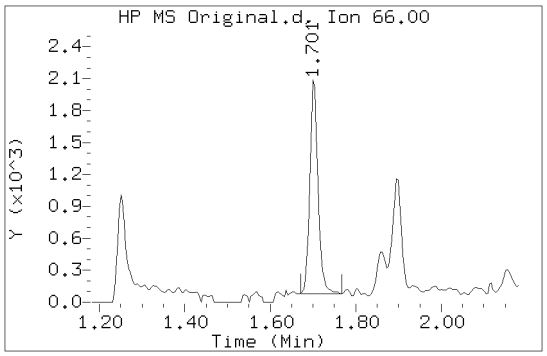
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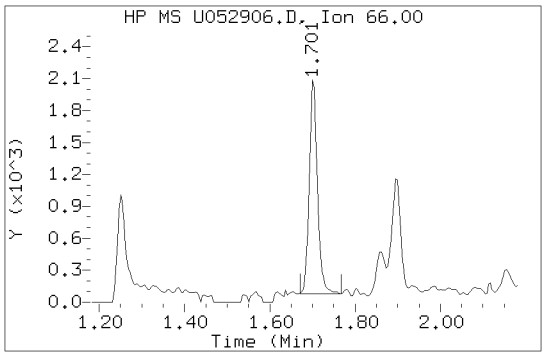
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AFTER

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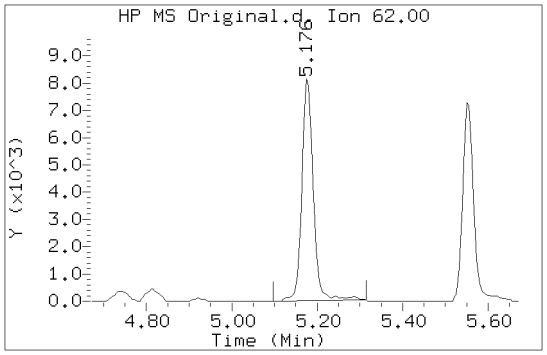


1,2-Dichloroethane (107-06-2)

Reason Code:

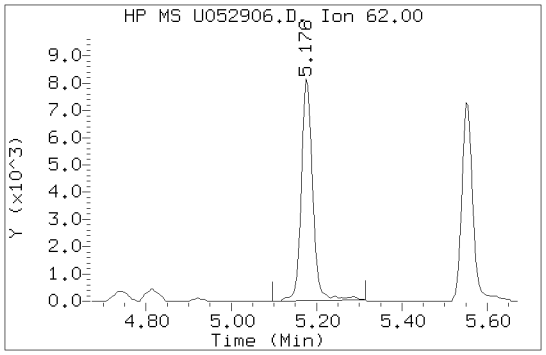
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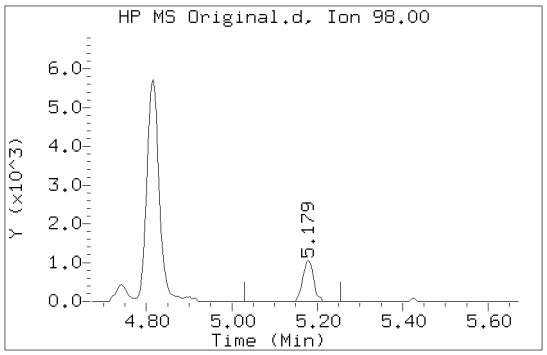
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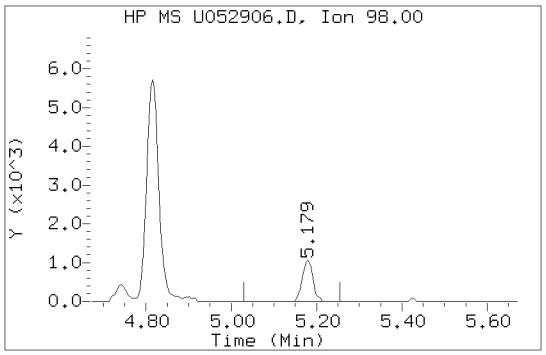
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AFTER

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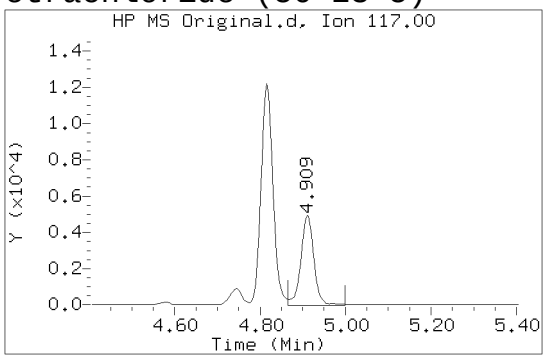


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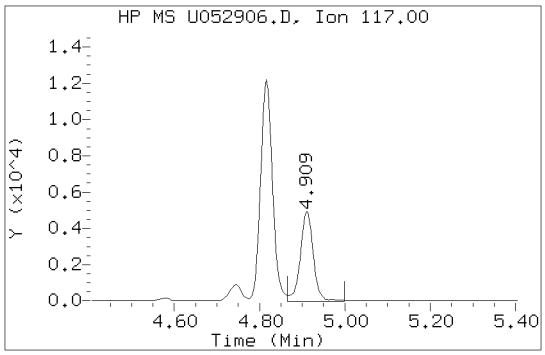
Carbon Tetrachloride (56-23-5)

Reason Code:

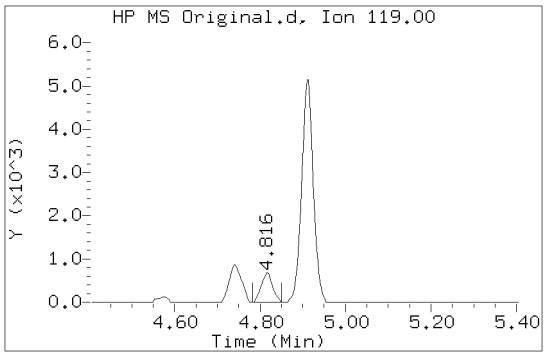
BEFORE
MASS
117
AREA
10732
HEIGHT
4949
06-Jun-2024
17:10
s
zaid



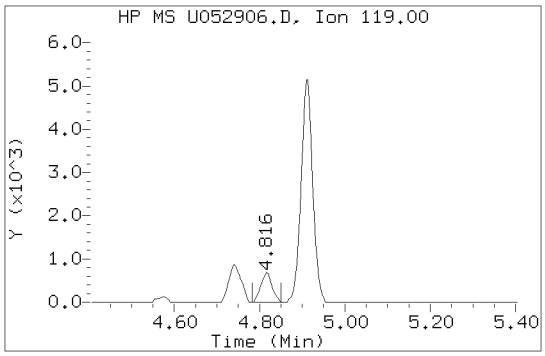
AFTER
MASS
117
AREA
10732
HEIGHT
4949
07-Jun-2024
10:36



BEFORE
MASS
119
AREA
1251
HEIGHT
683
06-Jun-2024
17:10
s
zaid



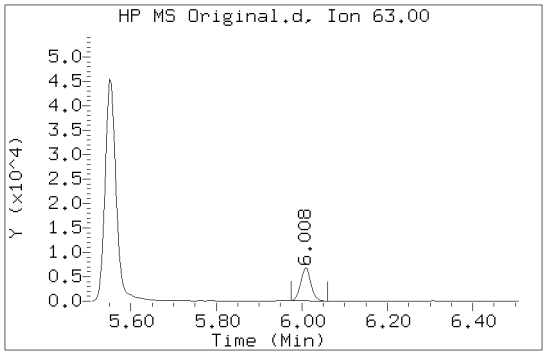
AFTER
MASS
119
AREA
1251
HEIGHT
683
07-Jun-2024
10:36



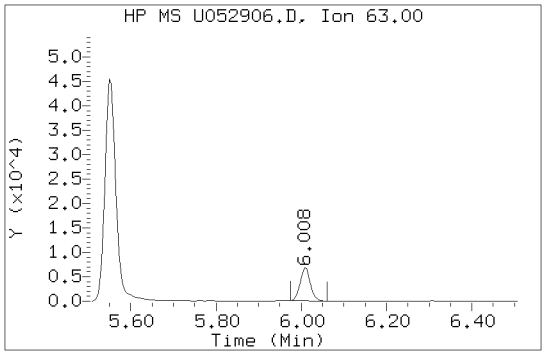
1,2-Dichloropropane (78-87-5)

Reason Code:

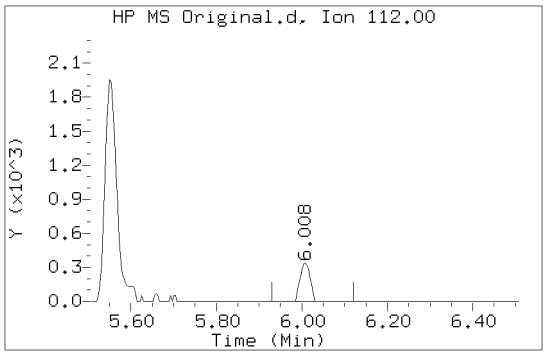
BEFORE
MASS
63
AREA
11260
HEIGHT
6693
06-Jun-2024
17:10
s
zaid



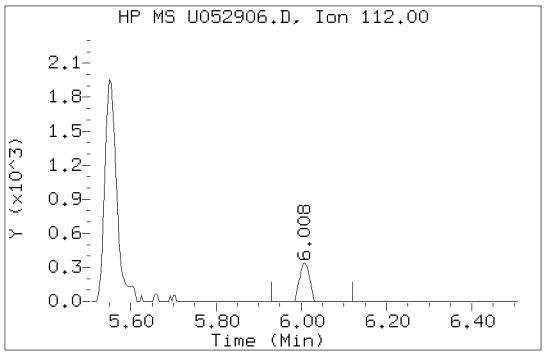
AFTER
MASS
63
AREA
11260
HEIGHT
6693
07-Jun-2024
10:36



BEFORE
MASS
112
AREA
560
HEIGHT
339
06-Jun-2024
17:10
s
zaid



AFTER
MASS
112
AREA
560
HEIGHT
339
07-Jun-2024
10:36

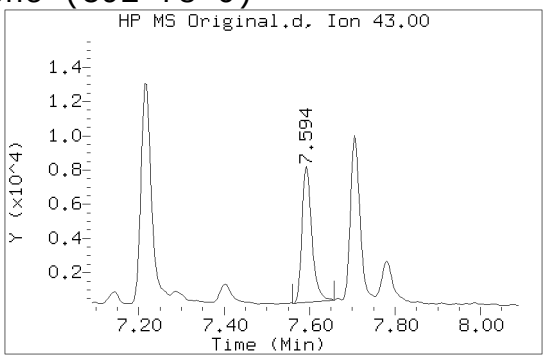


Data File : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052906.D
Inj Date : 29-MAY-2024 12:05
InstruID : VOA9.i
LabSampID : VSTD005

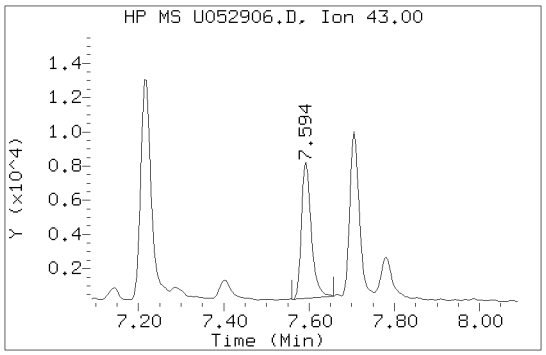
2-Hexanone (591-78-6)

Reason Code:

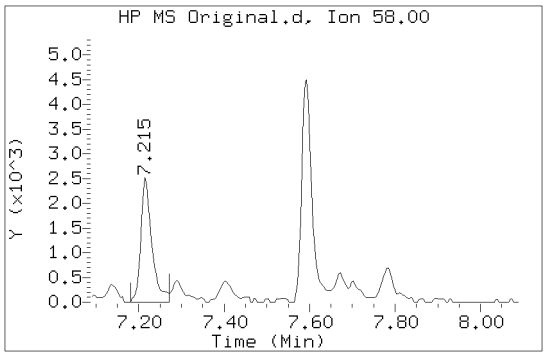
BEFORE
MASS
43
AREA
12848
HEIGHT
7941
06-Jun-2024
17:10
s
zaid



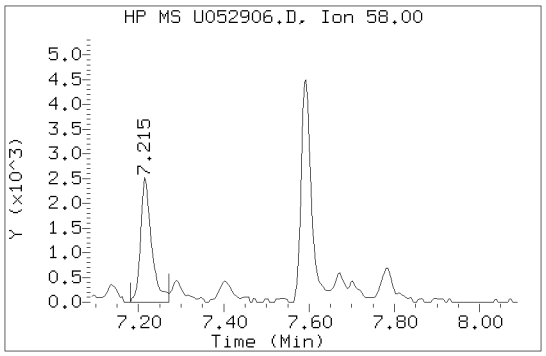
AFTER
MASS
43
AREA
12848
HEIGHT
7941
07-Jun-2024
10:36



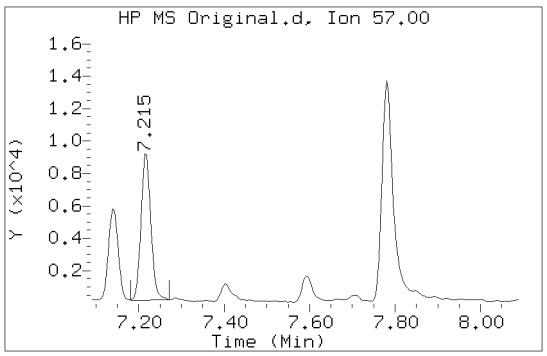
BEFORE
MASS
58
AREA
4543
HEIGHT
2520
06-Jun-2024
17:10
s
zaid



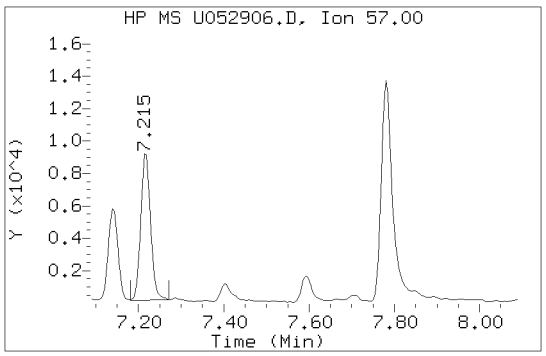
AFTER
MASS
58
AREA
4543
HEIGHT
2520
07-Jun-2024
10:36



BEFORE
MASS
57
AREA
14408
HEIGHT
9049
06-Jun-2024
17:10
s
zaid



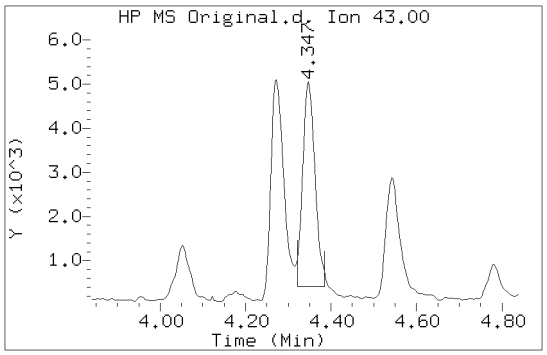
AFTER
MASS
57
AREA
14408
HEIGHT
9049
07-Jun-2024
10:36



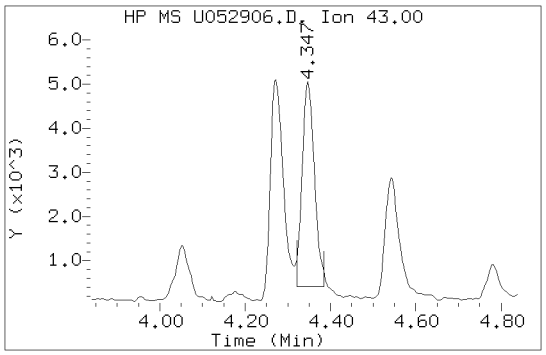
Vinyl Acetate (108-05-4)

Reason Code:

BEFORE
MASS
43
AREA
9536
HEIGHT
4648
06-Jun-2024
17:10
s
zaid



AFTER
MASS
43
AREA
9536
HEIGHT
4648
07-Jun-2024
10:36

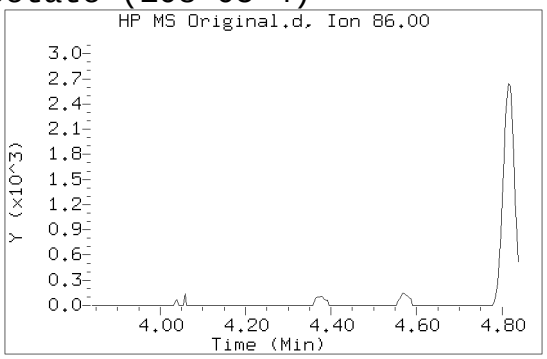


Data File : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052906.D
Inj Date : 29-MAY-2024 12:05
InstruID : VOA9.i
LabSampID : VSTD005

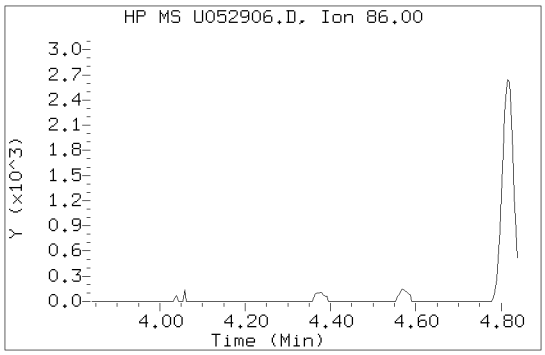
Vinyl Acetate (108-05-4)

Reason Code:

BEFORE
MASS
86
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



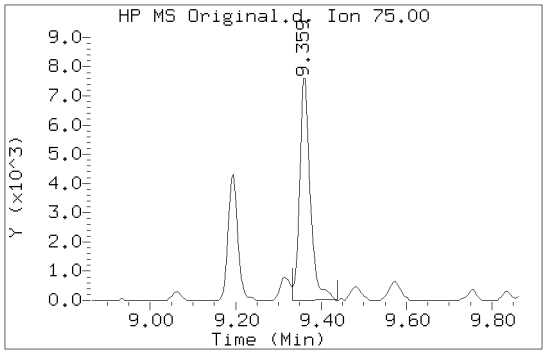
AFTER
MASS
86
AREA
0
HEIGHT
0
07-Jun-2024
10:36



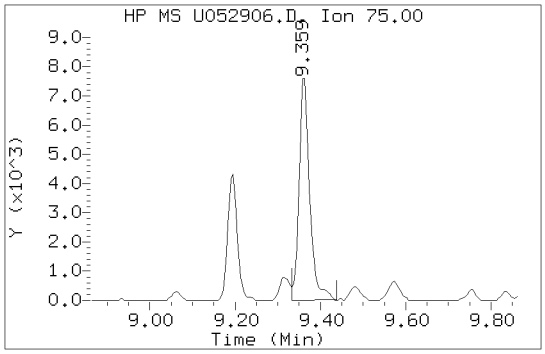
1,2,3-Trichloropropane (96-18-4)

Reason Code:

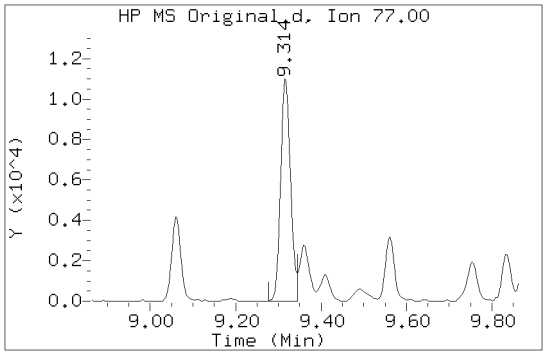
BEFORE
MASS
75
AREA
13410
HEIGHT
7583
06-Jun-2024
17:10
s
zaid



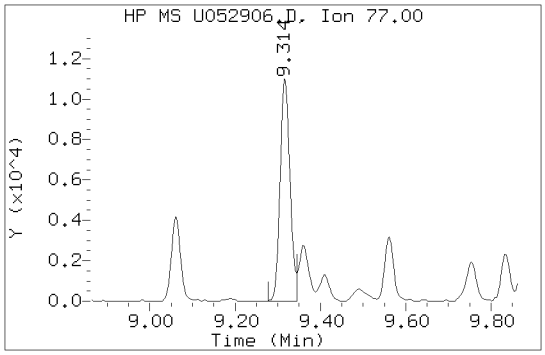
AFTER
MASS
75
AREA
13410
HEIGHT
7583
07-Jun-2024
10:36



BEFORE
MASS
77
AREA
17860
HEIGHT
10998
06-Jun-2024
17:10
s
zaid



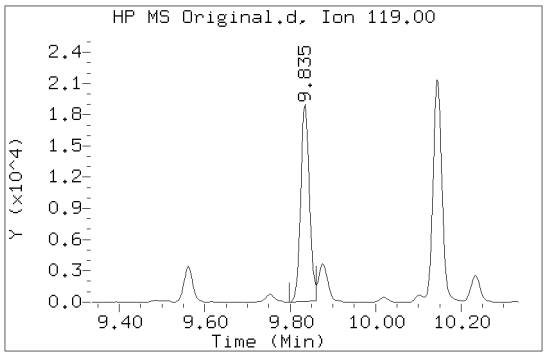
AFTER
MASS
77
AREA
17860
HEIGHT
10998
07-Jun-2024
10:36



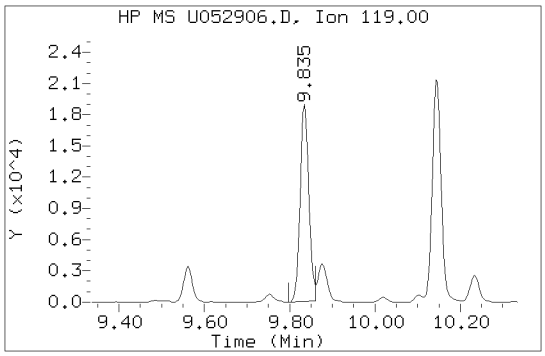
tert-Butylbenzene (98-06-6)

Reason Code:

BEFORE
MASS
119
AREA
27653
HEIGHT
18977
06-Jun-2024
17:10
s
zaid



AFTER
MASS
119
AREA
27653
HEIGHT
18977
07-Jun-2024
10:36



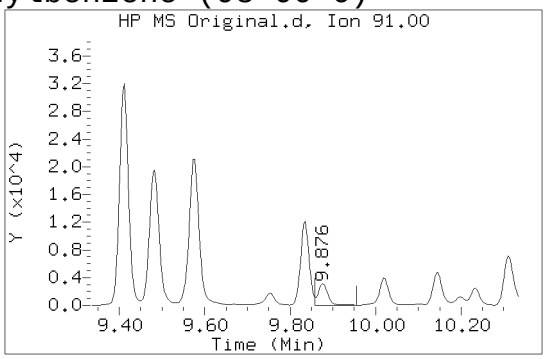
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052906.D
Inj Date : 29-MAY-2024 12:05
InstruID : VOA9.i
LabSampID : VSTD005

tert-Butylbenzene (98-06-6)

Reason Code:

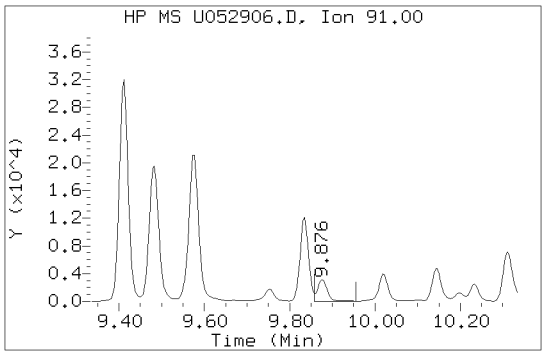
BEFORE

MASS
91
AREA
5166
HEIGHT
3121
06-Jun-2024
17:10
s
zaid



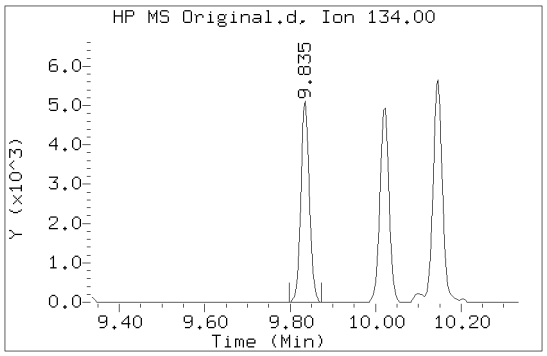
AFTER

MASS
91
AREA
5166
HEIGHT
3121
07-Jun-2024
10:36



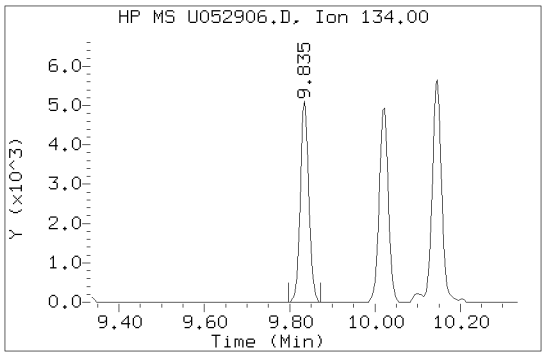
BEFORE

MASS
134
AREA
7218
HEIGHT
5118
06-Jun-2024
17:10
s
zaid



AFTER

MASS
134
AREA
7218
HEIGHT
5118
07-Jun-2024
10:36

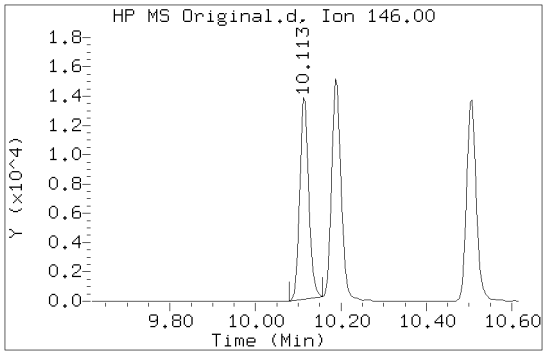


1,3-Dichlorobenzene (541-73-1)

Reason Code:

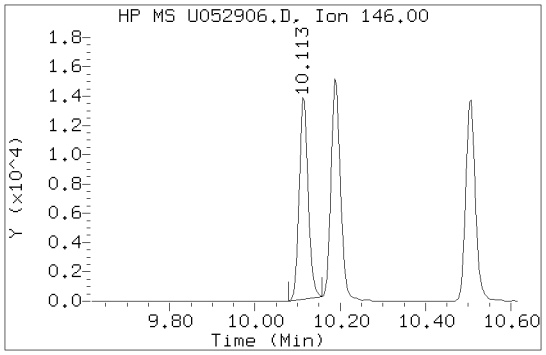
BEFORE

MASS
146
AREA
20563
HEIGHT
13765
06-Jun-2024
17:10
s
zaid



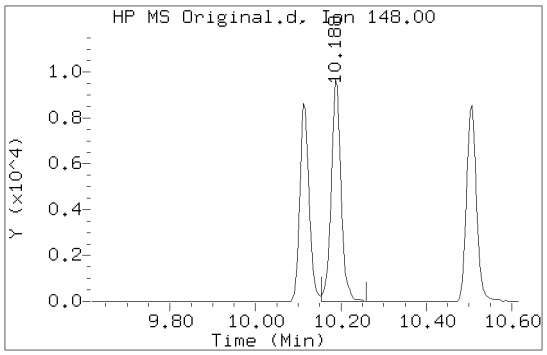
AFTER

MASS
146
AREA
20563
HEIGHT
13765
07-Jun-2024
10:36



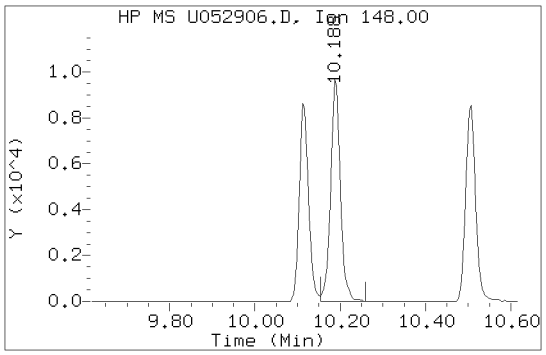
BEFORE

MASS
148
AREA
15345
HEIGHT
9669
06-Jun-2024
17:10
s
zaid



AFTER

MASS
148
AREA
15345
HEIGHT
9669
07-Jun-2024
10:36



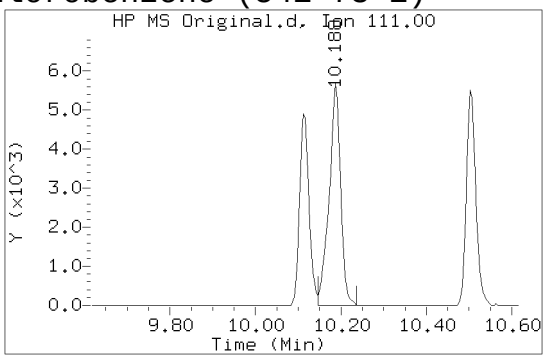
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052906.D
Inj Date : 29-MAY-2024 12:05
InstruID : VOA9.i
LabSampID : VSTD005

1,3-Dichlorobenzene (541-73-1)

Reason Code:

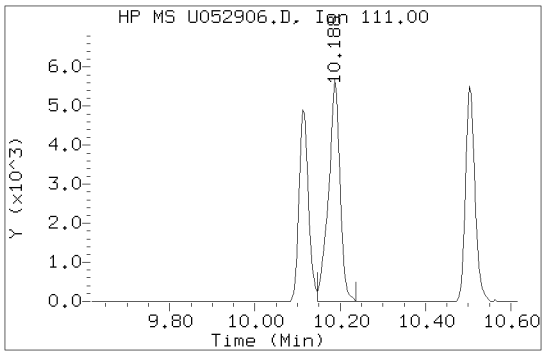
BEFORE

MASS
111
AREA
10600
HEIGHT
5677
06-Jun-2024
17:10
s
zaid



AFTER

MASS
111
AREA
10600
HEIGHT
5677
07-Jun-2024
10:36

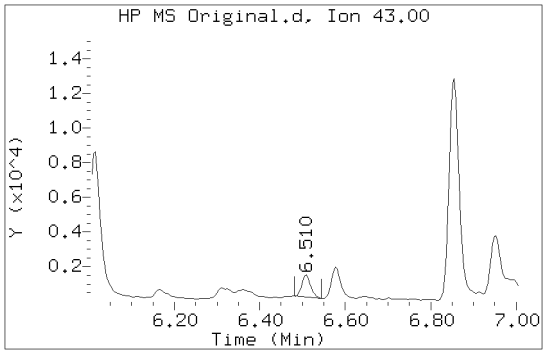


2-Nitropropane (79-46-9)

Reason Code:

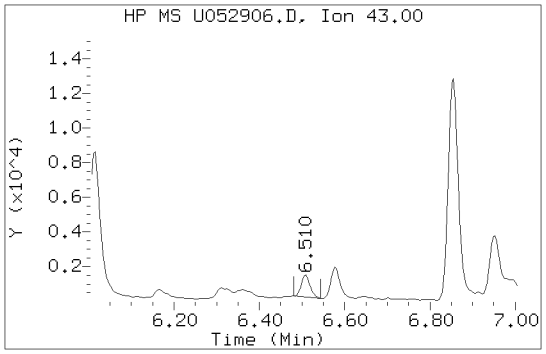
BEFORE

MASS
43
AREA
1819
HEIGHT
1291
06-Jun-2024
17:10
s
zaid



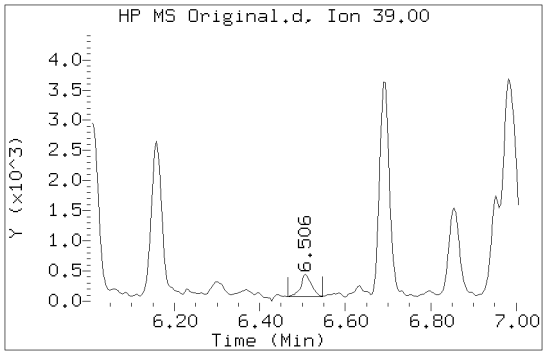
AFTER

MASS
43
AREA
1819
HEIGHT
1291
07-Jun-2024
10:36



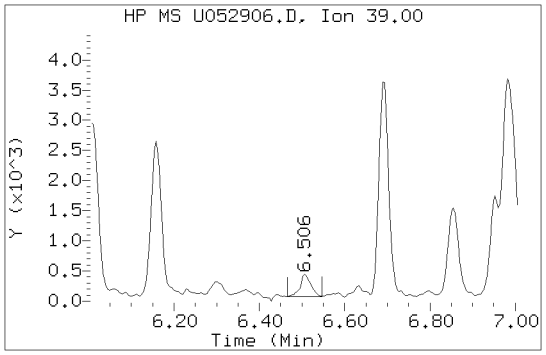
BEFORE

MASS
39
AREA
642
HEIGHT
371
06-Jun-2024
17:10
s
zaid



AFTER

MASS
39
AREA
642
HEIGHT
371
07-Jun-2024
10:36

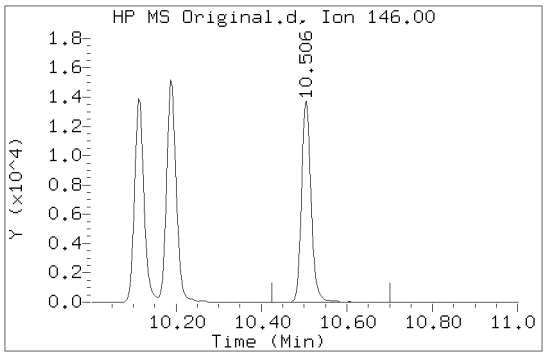


1,2-Dichlorobenzene (95-50-1)

Reason Code:

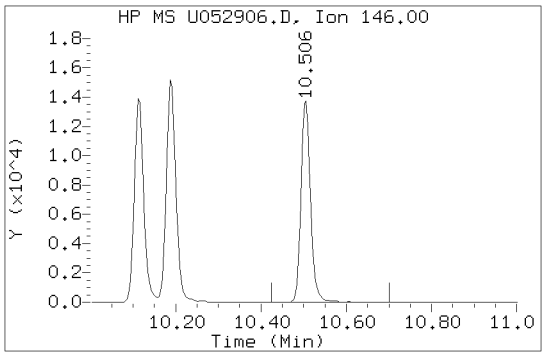
BEFORE

MASS
146
AREA
21652
HEIGHT
13716
06-Jun-2024
17:10
s
zaid



AFTER

MASS
146
AREA
21652
HEIGHT
13716
07-Jun-2024
10:36



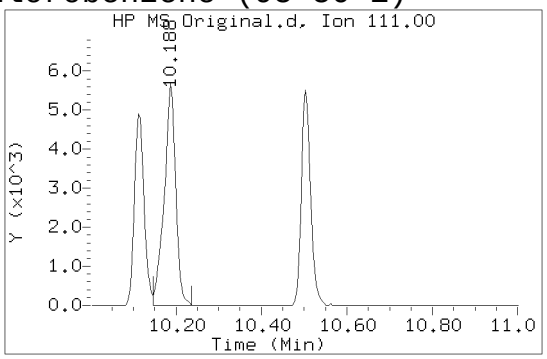
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052906.D
Inj Date : 29-MAY-2024 12:05
InstruID : VOA9.i
LabSampID : VSTD005

1,2-Dichlorobenzene (95-50-1)

Reason Code:

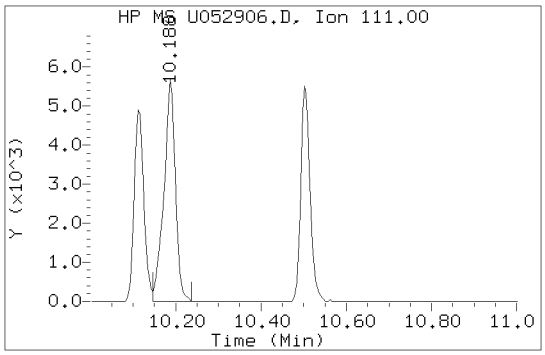
BEFORE

MASS
111
AREA
10600
HEIGHT
5677
06-Jun-2024
17:10
s
zaid



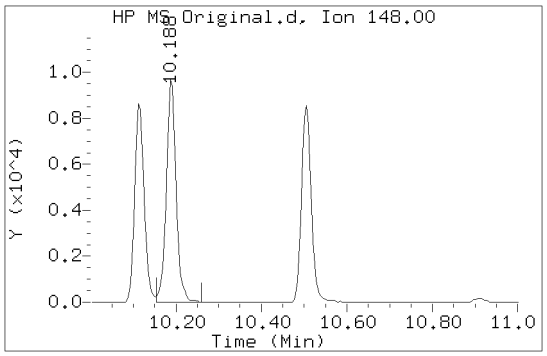
AFTER

MASS
111
AREA
10600
HEIGHT
5677
07-Jun-2024
10:36



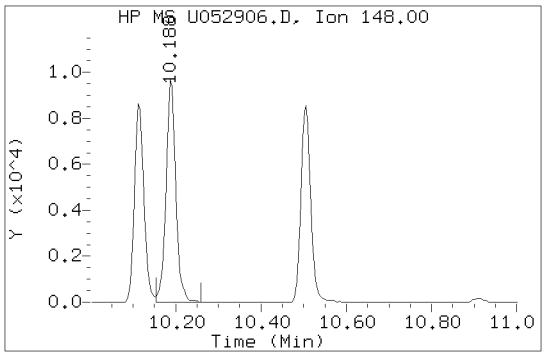
BEFORE

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AFTER

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10:36

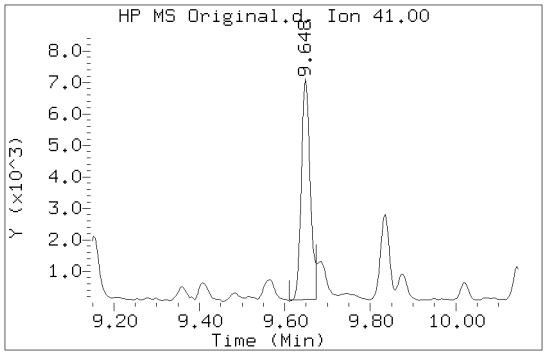


Butyl methacrylate (97-88-1)

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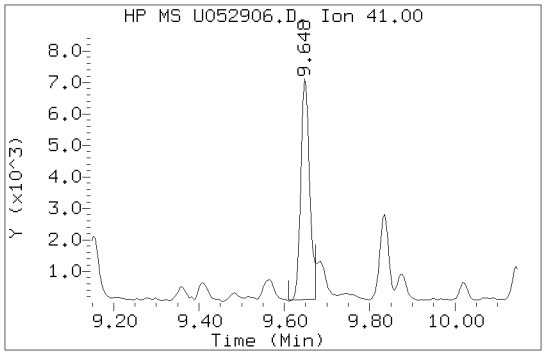
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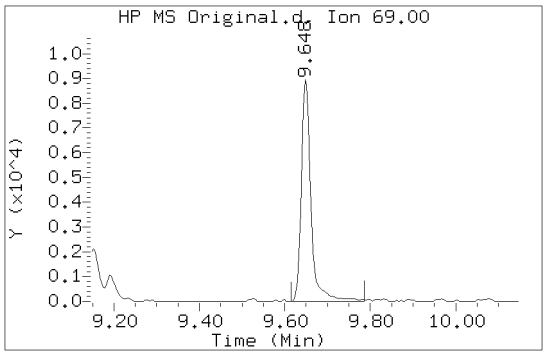
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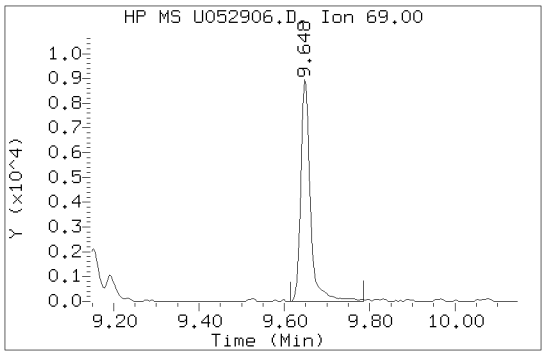
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zaid



AFTER

MASS
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07-Jun-2024
10:36



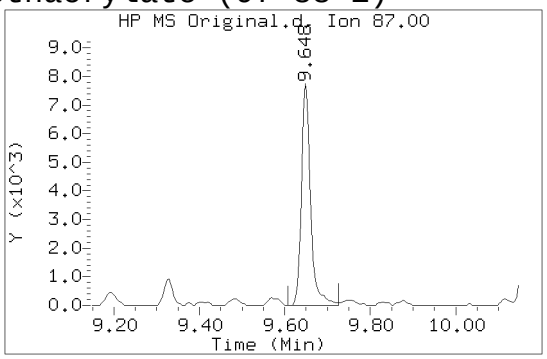
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Inj Date : 29-MAY-2024 12:05
InstruID : VOA9.i
LabSampID : VSTD005

Butyl methacrylate (97-88-1)

Reason Code:

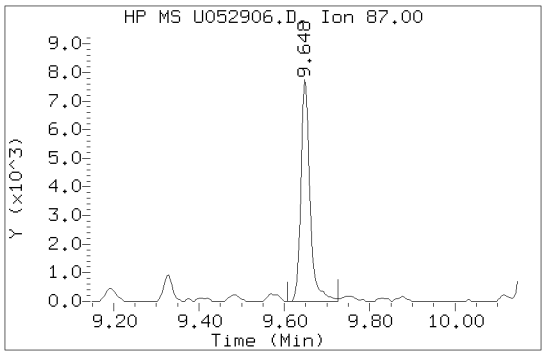
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AFTER

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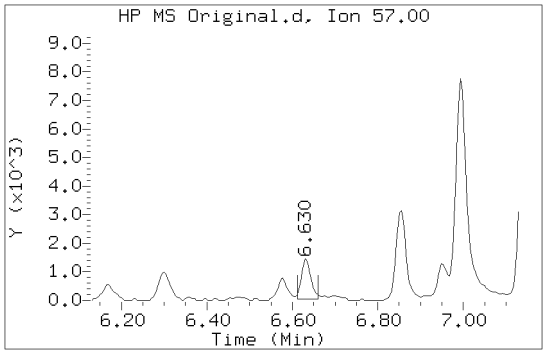


Epichlorohydrin (106-89-8)

Reason Code:

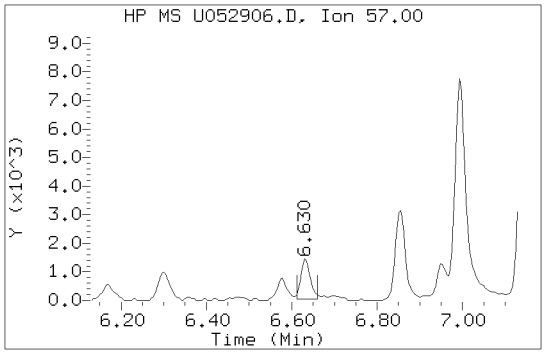
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06-Jun-2024
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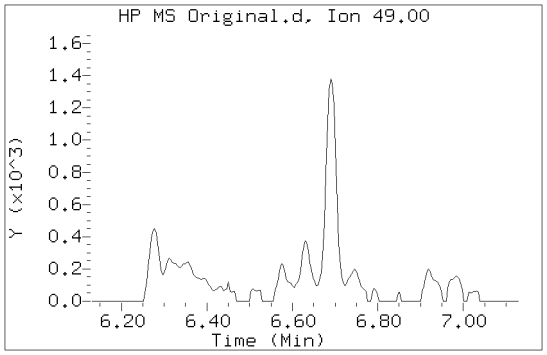
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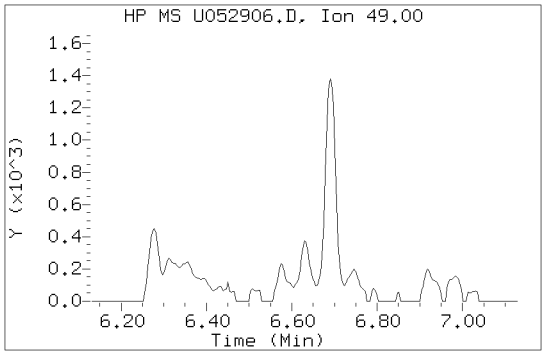
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AFTER

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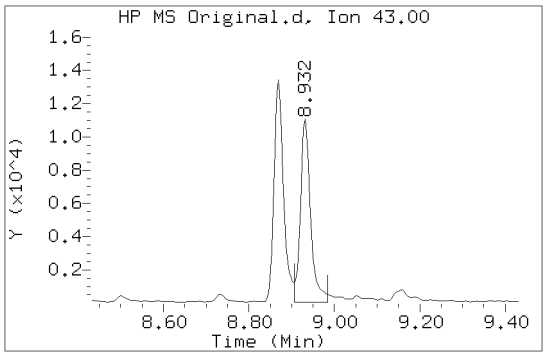


n-Amyl acetate (628-63-7)

Reason Code:

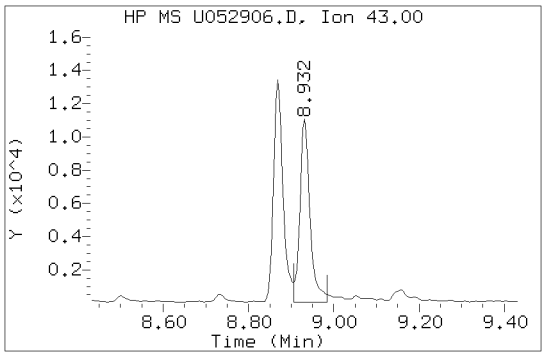
BEFORE

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11022
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AFTER

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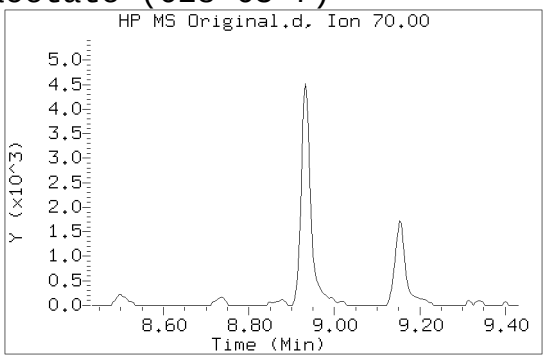


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InstruID : VOA9.i
LabSampID : VSTD005

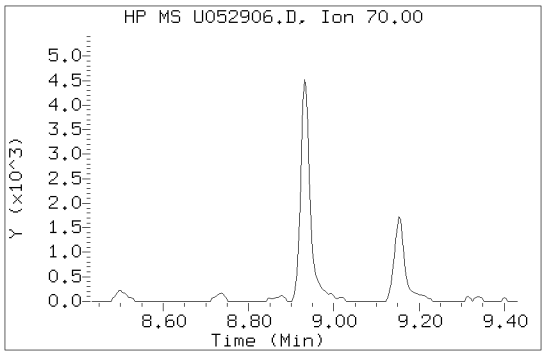
n-Amyl acetate (628-63-7)

Reason Code:

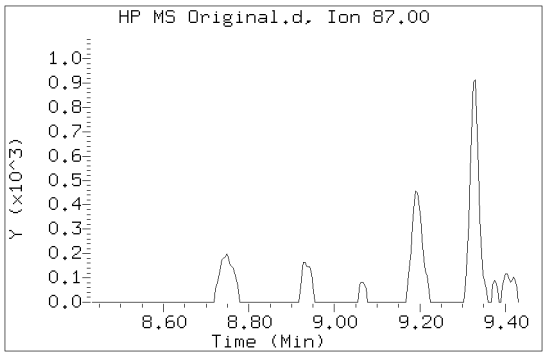
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06-Jun-2024
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s
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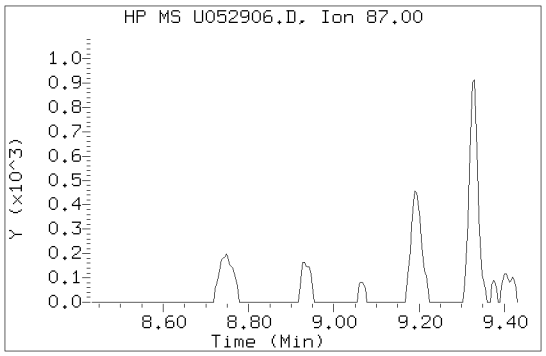
AFTER
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AREA
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HEIGHT
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07-Jun-2024
10:36



BEFORE
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06-Jun-2024
17:10
s
zaid



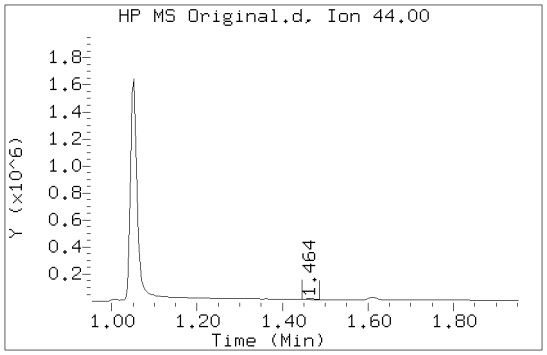
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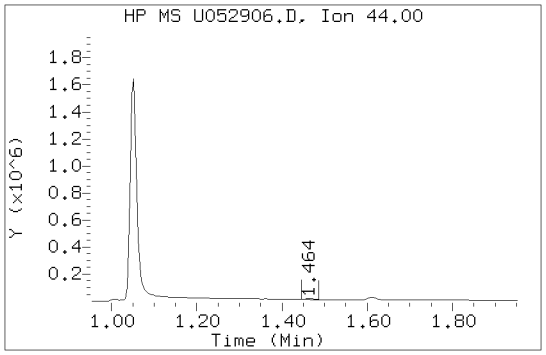
Acetaldehyde (75-07-0)

Reason Code:

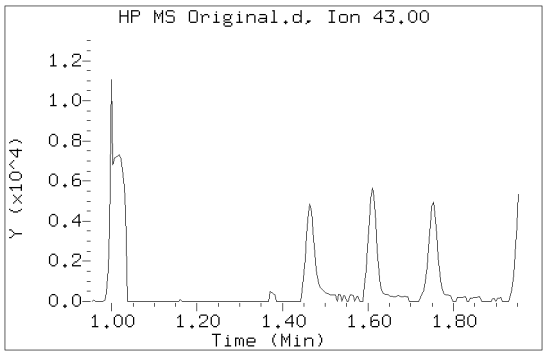
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06-Jun-2024
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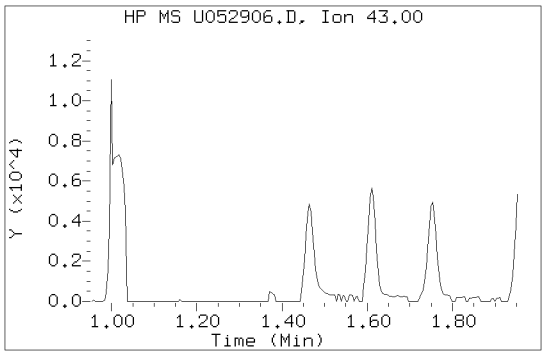
AFTER
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AREA
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HEIGHT
6569
07-Jun-2024
10:36



BEFORE
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0
HEIGHT
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06-Jun-2024
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s
zaid



AFTER
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07-Jun-2024
10:36

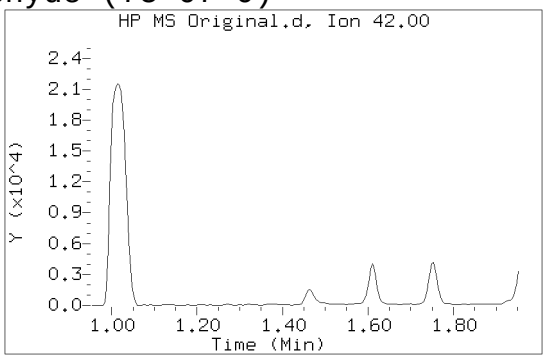


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Inj Date : 29-MAY-2024 12:05
InstruID : VOA9.i
LabSampID : VSTD005

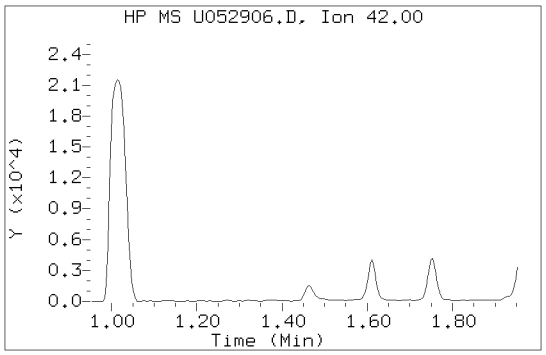
Acetaldehyde (75-07-0)

Reason Code:

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06-Jun-2024
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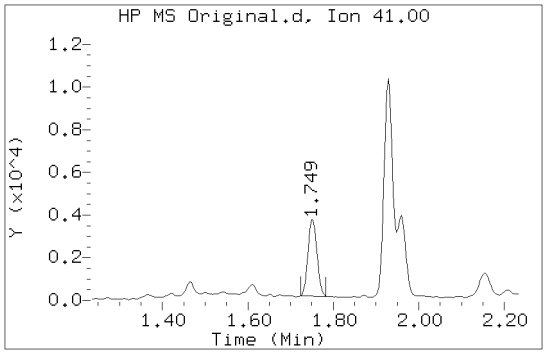
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07-Jun-2024
10:36



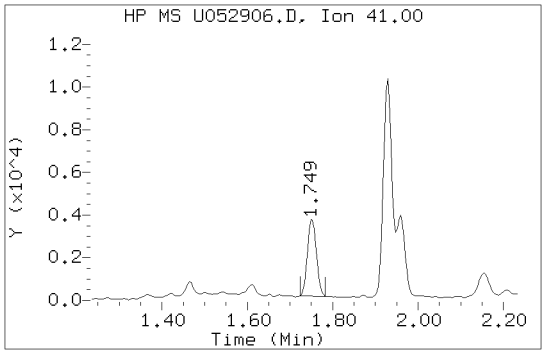
Isobutylene (115-11-7)

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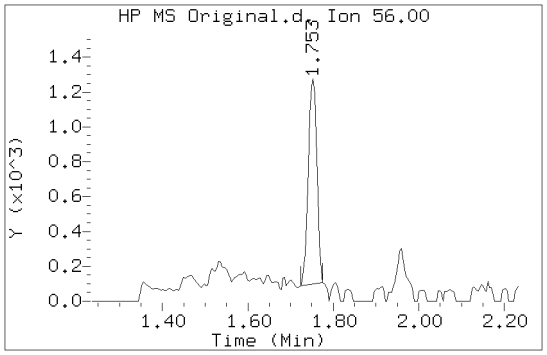
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17:10
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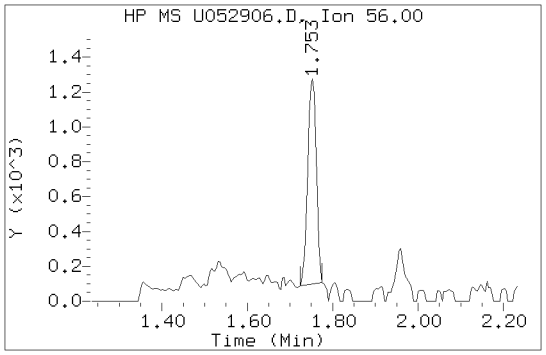
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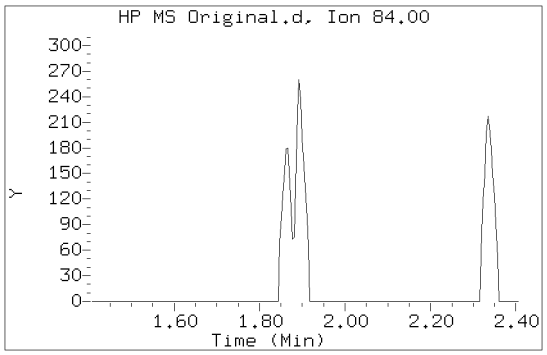
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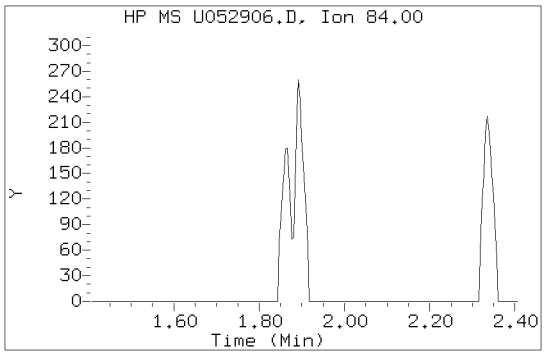
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07-Jun-2024
10:36



BEFORE
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0
06-Jun-2024
17:10
s
zaid



AFTER
MASS
84
AREA
0
HEIGHT
0
07-Jun-2024
10:36



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052907.D Page 1
Report Date: 07-Jun-2024 10:54

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052907.D
Lab Smp Id: VSTD020 Client Smp ID: VSTD020
Inj Date : 29-MAY-2024 12:26
Operator : FT Inst ID: VOA9.i
Smp Info : VSTD020;VSTD020;1;6
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240529.b\8260C.m
Meth Date : 07-Jun-2024 10:14 r.patel Quant Type: ISTD
Cal Date : 29-MAY-2024 12:26 Cal File: U052907.D
Als bottle: 7 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14

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	4.811	4.811	(1.000)	292016	50.0000	
2	Dichlorodifluoromethane	85	1.160	1.156	(0.241)	21269	20.0000	19.53(M)
3	Chloromethane	50	1.291	1.288	(0.268)	75709	20.0000	18.99
4	Propionitrile	54	4.335	4.339	(0.901)	64665	200.000	202.72(a)
5	Vinyl Chloride	62	1.374	1.366	(0.286)	42268	20.0000	19.16(M)
6	Bromomethane	94	1.610	1.595	(0.335)	21249	20.0000	20.91
7	Chloroethane	64	1.696	1.681	(0.353)	30548	20.0000	19.95(M)
8	Trichlorofluoromethane	101	1.891	1.884	(0.393)	51809	20.0000	19.78
9	Acrolein	56	2.262	2.259	(0.470)	3686	40.0000	34.83
10	Acetone	43	2.405	2.405	(0.500)	34500	40.0000	37.99
11	1,1-Dichloroethene	96	2.326	2.322	(0.483)	36260	20.0000	18.83
12	Isobutyl Alcohol	43	5.284	5.284	(1.098)	129741	400.000	421.04(a)
13	Acetonitrile	39	2.667	2.663	(0.554)	44875	200.000	189.44(a)
14	Allyl Chloride	41	2.667	2.667	(0.554)	113638	20.0000	20.02(a)
15	Iodomethane	142	2.461	2.457	(0.512)	7857	40.0000	40.10
16	Acrylonitrile	53	3.064	3.061	(0.637)	33195	40.0000	40.92
17	Methylene Chloride	84	2.787	2.783	(0.579)	47173	20.0000	20.35
18	Methyl tert-butyl ether	73	3.076	3.076	(0.639)	111071	20.0000	20.56
19	Carbon Disulfide	76	2.513	2.510	(0.522)	196920	40.0000	36.46
20	trans-1,2-Dichloroethene	96	3.053	3.050	(0.635)	40234	20.0000	18.48
21	Vinyl Acetate	43	4.339	4.339	(0.902)	49728	40.0000	38.64

22 1,1-Dichloroethane	63	3.507	3.507 (0.729)	74102	20.0000	17.72
23 Chloroprene	53	3.604	3.601 (0.749)	58943	20.0000	19.22

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052907.D Page 2
Report Date: 07-Jun-2024 10:54

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	24 2-Butanone	43	4.264	4.260	(0.886)	45052	40.0000	34.52
	25 Methacrylonitrile	41	4.493	4.489	(0.934)	26774	20.0000	20.40(a)
	26 2,2-Dichloropropane	77	4.178	4.174	(0.868)	50230	20.0000	18.30
	27 cis-1,2-Dichloroethene	96	4.193	4.189	(0.871)	48867	20.0000	18.17
	28 Chloroform	83	4.568	4.568	(0.949)	75736	20.0000	18.13
	29 Bromochloromethane	128	4.466	4.463	(0.928)	25140	20.0000	20.47
$	30 Dibromofluoromethane	113	4.744	4.744	(0.986)	36896	20.0000	19.88
	31 1,1,1-Trichloroethane	97	4.740	4.736	(0.985)	56115	20.0000	19.19
	32 1,1-Dichloropropene	75	4.916	4.916	(0.886)	54919	20.0000	17.79
	33 1,2-Dichloroethane	62	5.175	5.171	(0.932)	61258	20.0000	19.68(M)
	34 Carbon Tetrachloride	117	4.909	4.905	(0.885)	41556	20.0000	17.18(M)
$	35 1,2-Dichloroethane-d4	65	5.096	5.093	(1.059)	44846	20.0000	20.24
*	36 1,4-Difluorobenzene	114	5.550	5.550	(1.000)	426085	50.0000	
	37 Benzene	78	5.134	5.134	(0.925)	179684	20.0000	17.90
	38 Trichloroethene	130	5.786	5.786	(1.043)	45201	20.0000	18.29
	39 Bromodichloromethane	83	6.277	6.277	(1.131)	49558	20.0000	18.36
	40 Methyl Methacrylate	41	5.823	5.827	(1.210)	18720	20.0000	18.96(a)
	41 2-Chloroethylvinyl ether	63	6.573	6.573	(1.184)	28955	40.0000	35.85
	42 1,2-Dichloropropane	63	6.007	6.007	(1.082)	46935	20.0000	17.73(M)
	43 2-Nitropropane	43	6.506	6.506	(1.352)	7738	20.0000	17.08(M)
	44 Dibromomethane	93	6.116	6.116	(1.102)	27888	20.0000	18.14
	45 4-Methyl-2-Pentanone	43	6.851	6.851	(0.837)	95933	40.0000	38.32
	46 cis-1,3-Dichloropropene	75	6.689	6.690	(1.205)	62650	20.0000	18.44
*	47 Chlorobenzene-d5	117	8.181	8.185	(1.000)	379825	50.0000	
$	48 Toluene-d8	98	6.918	6.918	(0.846)	142140	20.0000	19.74
	49 Ethyl Methacrylate	69	7.289	7.289	(1.313)	58135	20.0000	17.63(a)
	50 Toluene	91	6.978	6.978	(0.853)	182476	20.0000	17.69
	51 trans-1,3-Dichloropropene	75	7.196	7.196	(1.296)	49938	20.0000	18.20
	52 2-Hexanone	43	7.589	7.589	(0.928)	58293	40.0000	36.78(M)
	53 1,1,2-Trichloroethane	83	7.353	7.353	(0.899)	36741	20.0000	20.21
	54 1,3-Dichloropropane	76	7.495	7.499	(0.916)	77361	20.0000	18.42
	55 Dibromochloromethane	129	7.690	7.690	(0.940)	39282	20.0000	18.55
	56 Tetrachloroethene	164	7.454	7.454	(0.911)	35021	20.0000	19.44
	57 1,2-Dibromoethane	107	7.784	7.784	(0.951)	42128	20.0000	18.57
	58 1-Chlorohexane	55	8.193	8.196	(1.476)	32677	20.0000	18.32
	59 Chlorobenzene	112	8.208	8.208	(1.003)	118600	20.0000	18.11
	60 1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	40089	20.0000	19.19
	61 Ethylbenzene	106	8.305	8.305	(1.015)	57981	20.0000	19.43
	62 m,p-Xylenes	106	8.406	8.406	(1.027)	153153	40.0000	39.11
	63 o-Xylene	106	8.744	8.744	(1.069)	74682	20.0000	19.51
	64 Styrene	104	8.759	8.759	(1.071)	120302	20.0000	19.13
	66 Bromoform	173	8.916	8.916	(1.090)	22868	20.0000	17.25
	67 Isopropylbenzene	105	9.059	9.059	(1.107)	174459	20.0000	19.24
	68 1,1,2,2-Tetrachloroethane	83	9.325	9.329	(0.917)	61275	20.0000	18.22
$	69 4-Bromofluorobenzene	95	9.190	9.190	(1.123)	52184	20.0000	19.69
*	70 1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	202258	50.0000	
	71 1,2,3-Trichloropropane	75	9.359	9.362	(0.920)	56598	20.0000	17.95(M)
	72 trans-1,4-Dichloro-2-butene	53	9.377	9.377	(1.146)	11099	20.0000	17.10(a)
	73 n-Propylbenzene	91	9.411	9.411	(0.926)	203284	20.0000	18.65
	74 Bromobenzene	156	9.317	9.317	(0.916)	51049	20.0000	18.35
	75 1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	146220	20.0000	19.84
	76 2-Chlorotoluene	91	9.478	9.482	(0.932)	128707	20.0000	20.27

77 4-Chlorotoluene	91	9.576	9.576 (0.942)	146924	20.0000	18.77
78 tert-Butylbenzene	119	9.835	9.835 (0.967)	121457	20.0000	19.84(M)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
79	1,2,4-Trimethylbenzene	105	9.876	9.876	(0.971)	154144	20.0000	19.41
81	sec-Butylbenzene	105	10.022	10.022	(0.986)	163132	20.0000	19.64
82	p-Isopropyltoluene	119	10.146	10.146	(0.998)	140705	20.0000	19.44
83	1,3-Dichlorobenzene	146	10.112	10.116	(0.994)	87097	20.0000	18.54(M)
84	1,4-Dichlorobenzene	146	10.191	10.191	(1.002)	93031	20.0000	17.88
86	Benzyl Chloride	91	10.311	10.311	(1.260)	47617	20.0000	16.69
87	n-Butylbenzene	91	10.491	10.491	(1.032)	121510	20.0000	19.14
88	1,2-Dichlorobenzene	146	10.506	10.502	(1.033)	89111	20.0000	18.31(M)
89	1,2-Dibromo-3-Chloropropane	155	11.165	11.165	(1.098)	6942	20.0000	17.33
90	1,2,4-Trichlorobenzene	180	11.855	11.855	(1.166)	56836	20.0000	18.53
91	Hexachlorobutadiene	225	11.994	11.998	(1.180)	23031	20.0000	18.72
92	Naphthalene	128	12.065	12.065	(1.187)	140782	20.0000	19.13
93	1,2,3-Trichlorobenzene	180	12.267	12.268	(1.206)	54136	20.0000	18.95
146	Methyl acetate	43	2.712	2.708	(0.564)	45615	20.0000	19.89
138	Freon TF	101	2.330	2.326	(0.484)	30656	20.0000	19.51
141	Cyclohexane	56	4.778	4.778	(0.993)	54972	20.0000	19.46
142	Tetrahydrofuran	42	4.541	4.542	(0.944)	17078	40.0000	40.52
147	Methylcyclohexane	55	5.943	5.944	(1.071)	94734	20.0000	18.74
135	1,4-Dioxane	88	6.165	6.168	(1.281)	12564	400.000	418.30
132	n-Butanol	56	5.823	5.827	(1.210)	25909	400.000	329.35(a)
136	n-Hexane	57	3.334	3.331	(0.693)	36389	20.0000	19.45
139	Diethyl ether	59	2.142	2.139	(0.445)	31782	20.0000	20.77
148	Tert-butyl alcohol	59	2.971	2.975	(0.617)	82537	400.000	410.19
149	Isopropyl alcohol	45	2.566	2.570	(0.533)	63121	400.000	402.56
152	Amyl alcohol	42	7.398	7.398	(0.904)	29249	400.000	369.70
156	Diisopropyl ether	45	3.619	3.619	(0.752)	137423	20.0000	18.43(T)
162	Butyl acrylate	55	8.732	8.733	(1.067)	72944	20.0000	18.93
187	n-Amyl acetate	43	8.927	8.931	(1.091)	75375	20.0000	18.27
164	Dicyclopentadiene	66	10.198	10.198	(1.003)	183560	20.0000	17.69
166	1,2,3-Trimethylbenzene	105	10.232	10.232	(1.006)	132826	20.0000	19.29
167	Ethanol	45	2.082	2.086	(0.433)	12109	400.000	410.16
172	tert-Butyl formate	59	5.242	5.250	(1.090)	82116	40.0000	35.59
173	3,3-Dimethyl-1-butanol	57	7.780	7.784	(0.951)	93954	400.000	355.38
174	tert-Amyl methyl ether	73	5.284	5.284	(1.098)	126677	20.0000	18.53
175	tert-Butyl ethyl ether	59	4.047	4.047	(0.841)	122465	20.0000	18.33
176	tert-Amyl alcohol	59	5.242	5.250	(1.090)	82116	400.000	351.89
151	4-Methyl-2-pentanol	45	7.214	7.222	(1.300)	254940	400.000	382.44
140	1,3-Butadiene	54	1.400	1.396	(0.291)	21066	20.0000	19.49
182	Epichlorohydrin	57	6.629	6.630	(1.195)	10404	80.0000	73.59
M 94	1,2-Dichloroethylene (total)	96				89101	40.0000	(a)
145	alpha-Methylstyrene	118	9.752	9.752	(0.959)	56994	20.0000	19.11
130	Ethyl Acetate	43	4.339	4.339	(0.902)	50101	20.0000	18.62
131	Methyl Acrylate	55	4.369	4.365	(0.908)	52347	20.0000	19.68
189	n-Butyl acetate	43	7.705	7.702	(0.942)	71056	20.0000	17.81
134	Cyclohexanone	55	9.152	9.152	(0.900)	42427	400.000	378.08(a)
185	Isoprene	39	2.150	2.146	(0.447)	8609	20.0000	19.26
188	Isopropyl acetate	43	5.284	5.284	(0.952)	130382	20.0000	18.44
150	Allyl alcohol	57	3.334	3.331	(0.693)	36389	400.000	389.18
194	Acetaldehyde	44	1.456	1.453	(0.303)	37005	80.0000	77.86(M)
195	Methyl Amyl Ketone	43	8.867	8.868	(1.084)	82259	20.0000	17.77
200	Dimethyl Disulfide	94	6.742	6.746	(0.824)	20022	20.0000	14.89
202	Isobutylene	41	1.745	1.734	(0.363)	17507	20.0000	19.58(M)

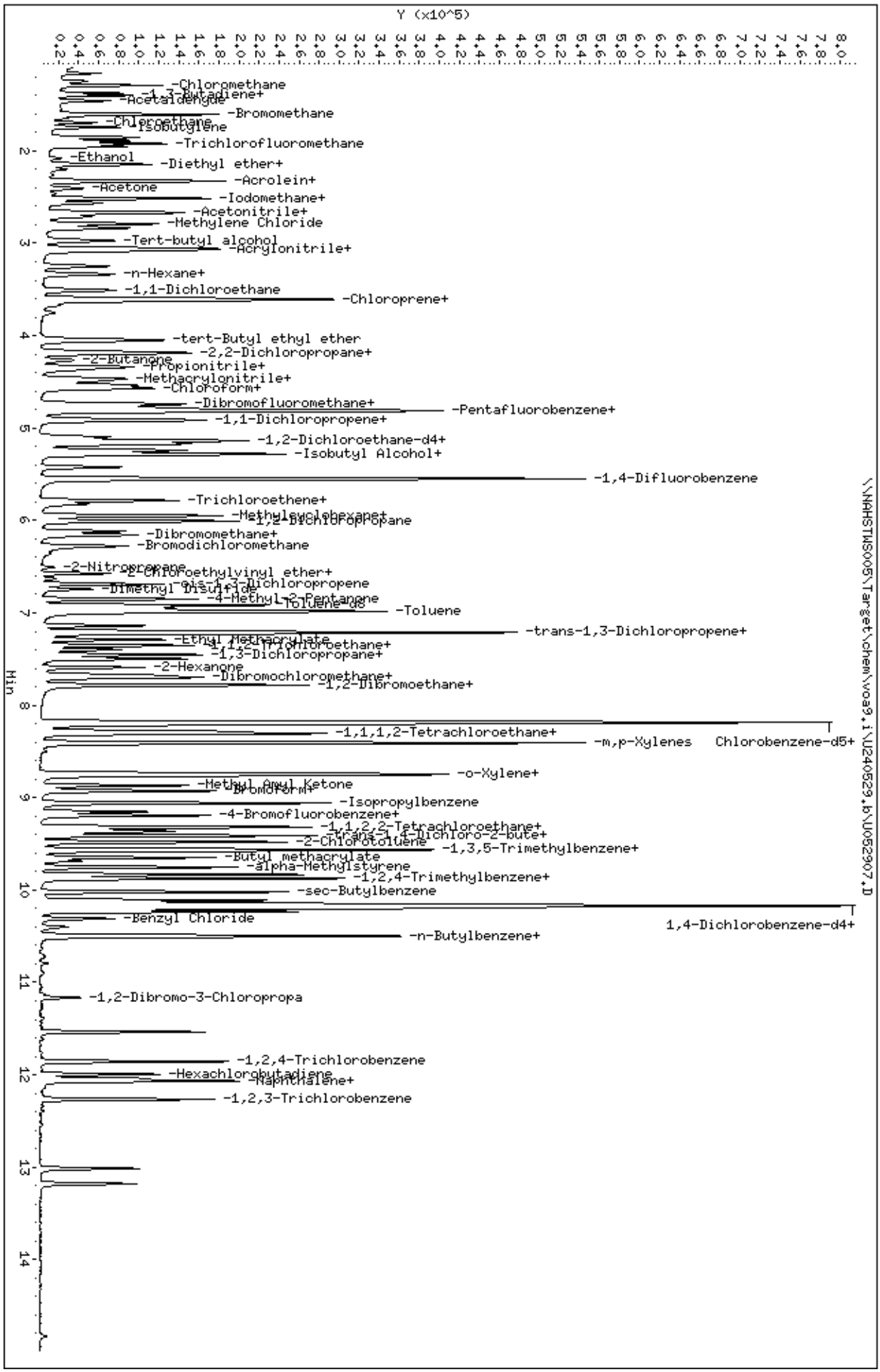
133 Ethyl Acrylate	55	5.943	5.944 (1.235)	94734	20.0000	18.98
163 Butyl methacrylate	41	9.647	9.647 (0.949)	43733	20.0000	18.68(M)

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052907.D Page 4
Report Date: 07-Jun-2024 10:54

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
159 Propylene oxide	43	2.199	2.191	(0.457)	6665	40.0000	39.75
203 2-Ethylhexyl Acrylate	55	12.039	12.039	(1.184)	37971	20.0000	16.65

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\voa9.i\U240529.b\U052907.D
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Sample Info: VSTD020;VSTD020;1;6
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Column phase: DB624

Instrument: VOA9.i
Operator: FT
Column diameter: 0.18

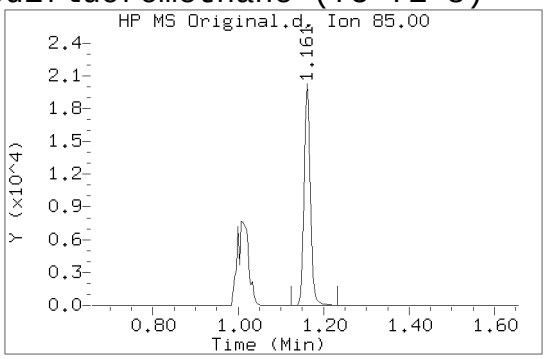
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InstruID : VOA9.i
LabSampID : VSTD020

Dichlorodifluoromethane (75-71-8)

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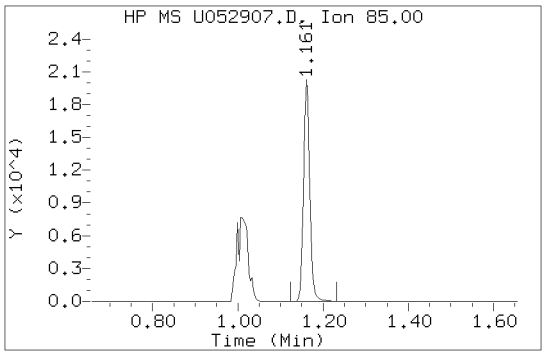
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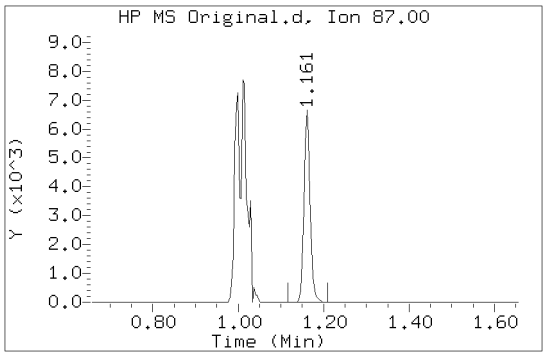
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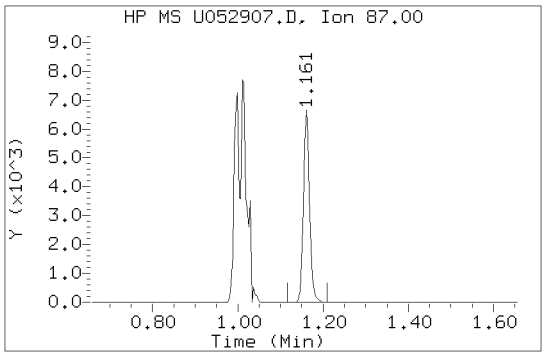
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AFTER

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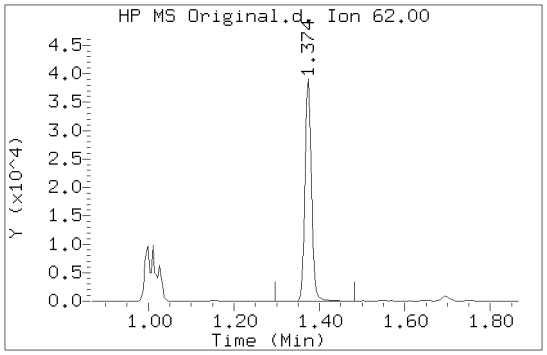


Vinyl Chloride (75-01-4)

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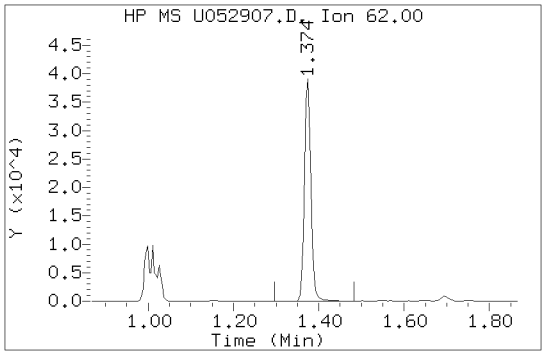
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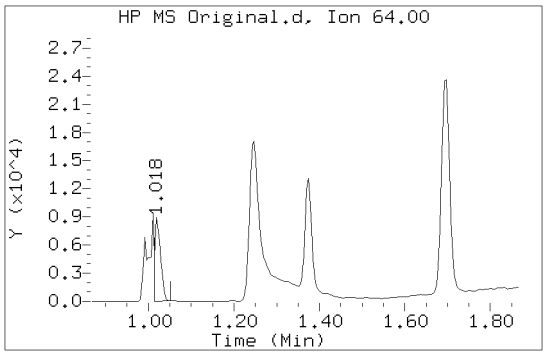
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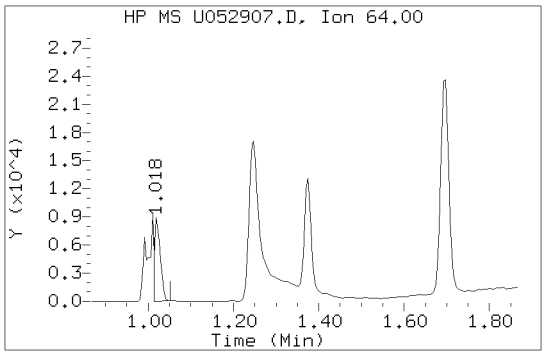
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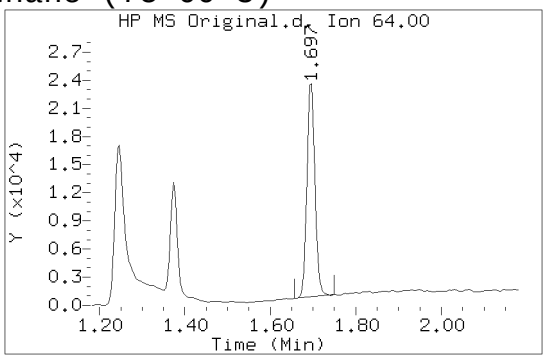


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LabSampID : VSTD020

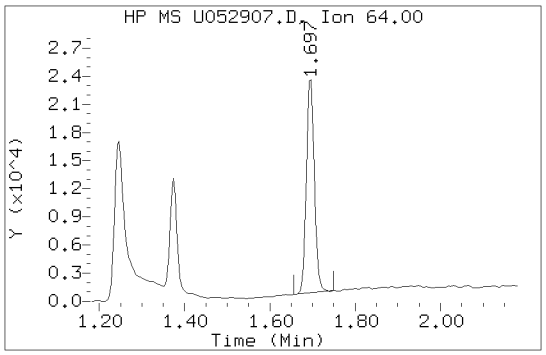
Chloroethane (75-00-3)

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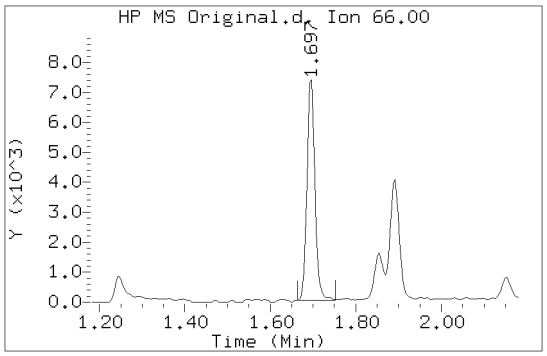
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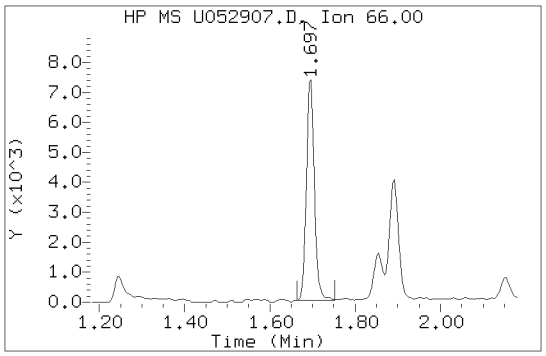
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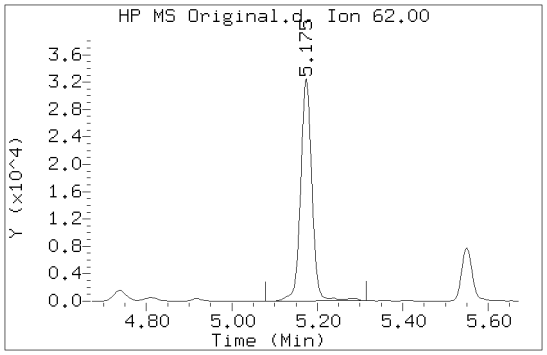
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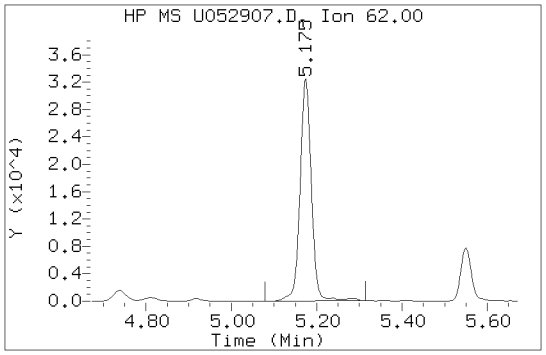
1,2-Dichloroethane (107-06-2)

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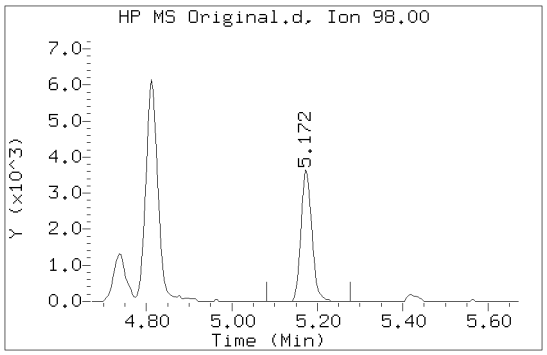
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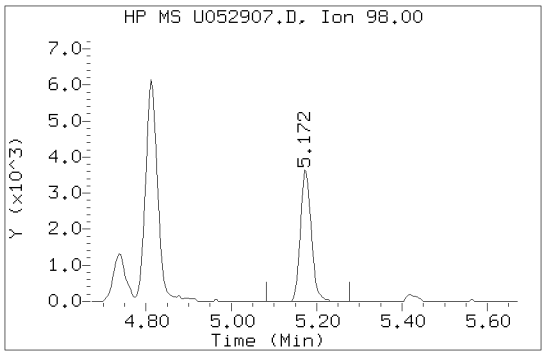
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BEFORE
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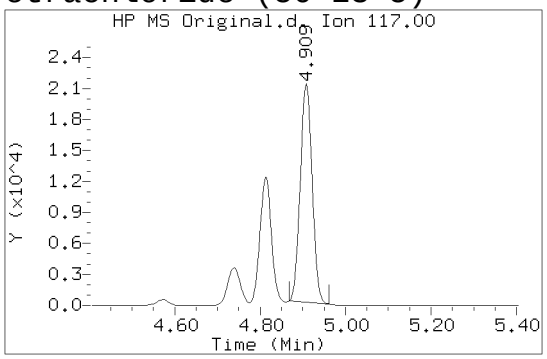


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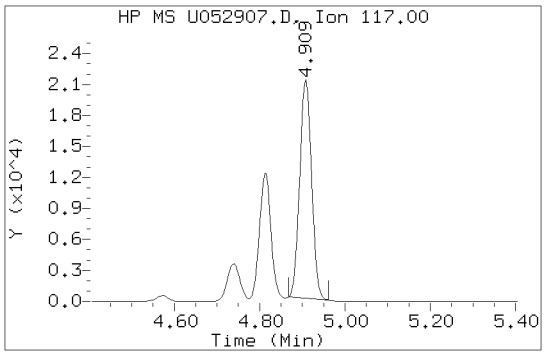
Carbon Tetrachloride (56-23-5)

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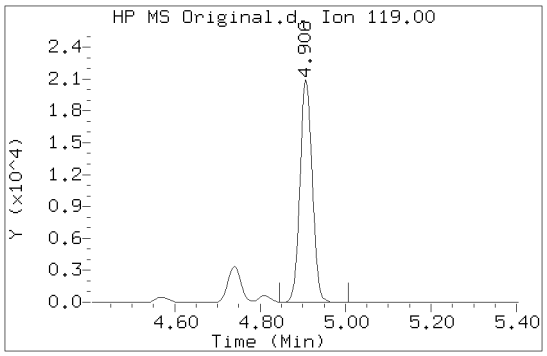
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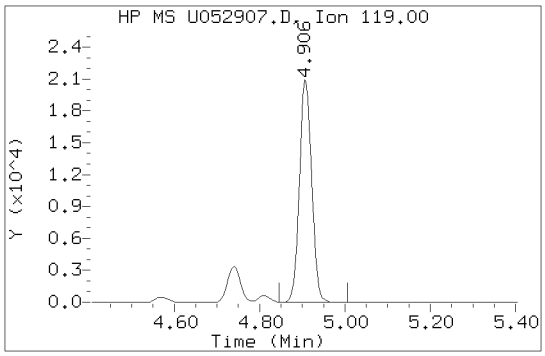
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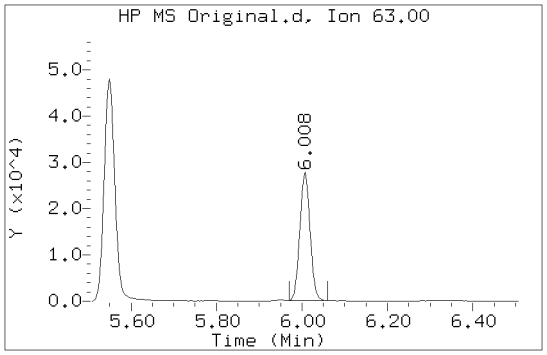
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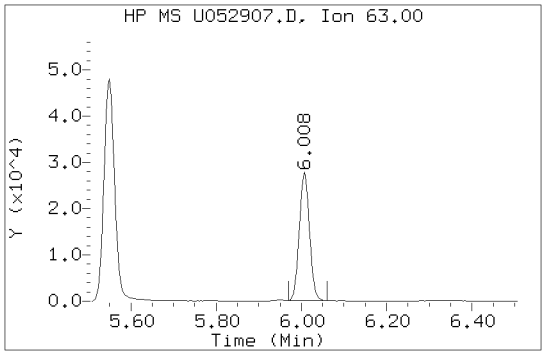
1,2-Dichloropropane (78-87-5)

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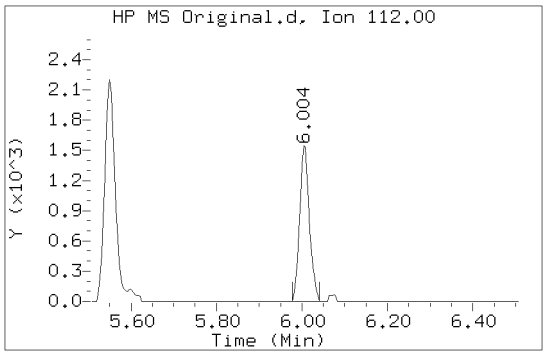
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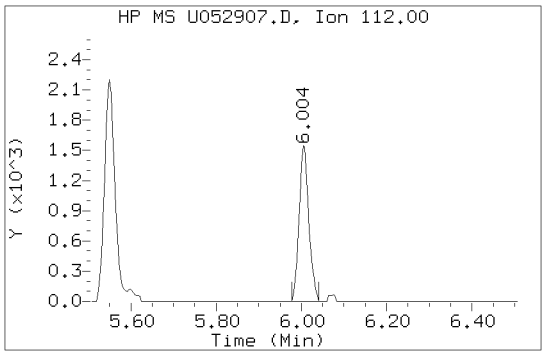
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HEIGHT
1549
06-Jun-2024
17:10
s
zaid



AFTER
MASS
112
AREA
2503
HEIGHT
1549
07-Jun-2024
10:36

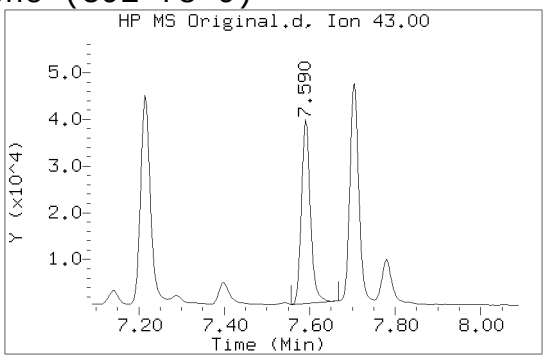


Data File : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052907.D
Inj Date : 29-MAY-2024 12:26
InstruID : VOA9.i
LabSampID : VSTD020

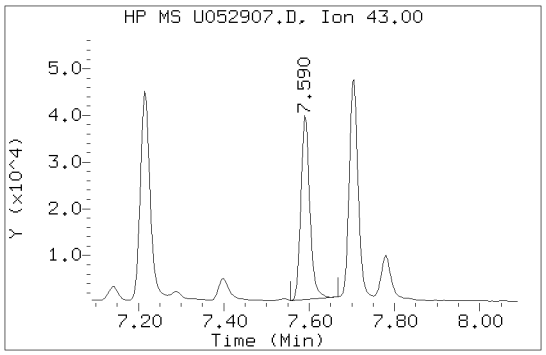
2-Hexanone (591-78-6)

Reason Code:

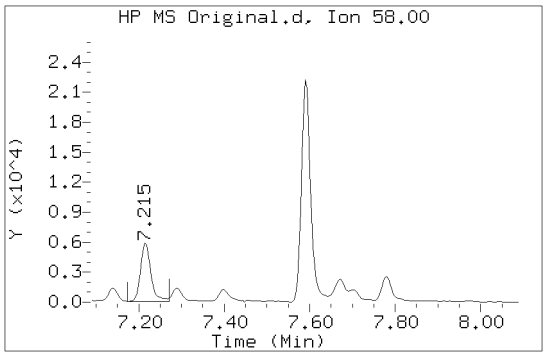
BEFORE
MASS
43
AREA
58293
HEIGHT
39415
06-Jun-2024
17:10
s
zaid



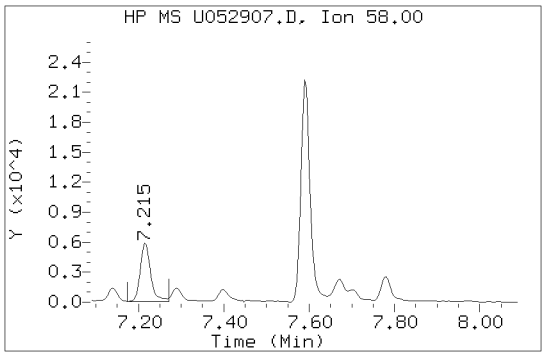
AFTER
MASS
43
AREA
58293
HEIGHT
39415
07-Jun-2024
10:36



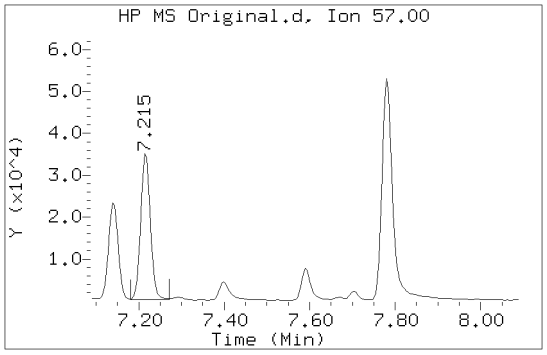
BEFORE
MASS
58
AREA
9838
HEIGHT
5845
06-Jun-2024
17:10
s
zaid



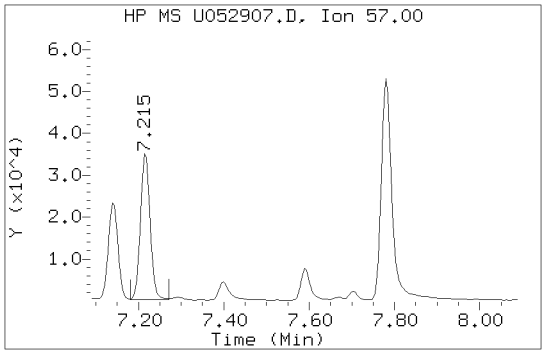
AFTER
MASS
58
AREA
9838
HEIGHT
5845
07-Jun-2024
10:36



BEFORE
MASS
57
AREA
54751
HEIGHT
34893
06-Jun-2024
17:10
s
zaid



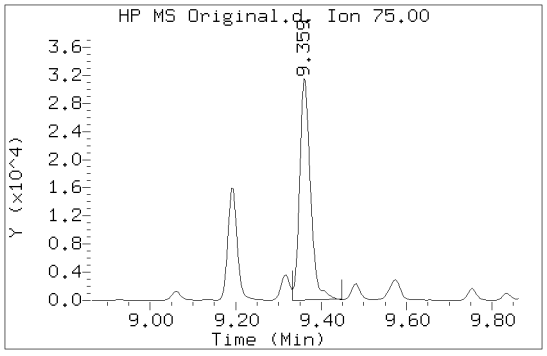
AFTER
MASS
57
AREA
54751
HEIGHT
34893
07-Jun-2024
10:36



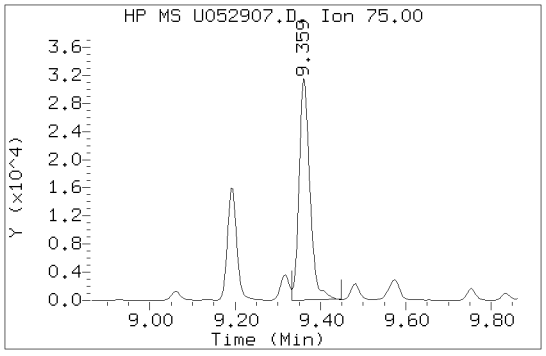
1,2,3-Trichloropropane (96-18-4)

Reason Code:

BEFORE
MASS
75
AREA
56598
HEIGHT
31439
06-Jun-2024
17:10
s
zaid



AFTER
MASS
75
AREA
56598
HEIGHT
31439
07-Jun-2024
10:36



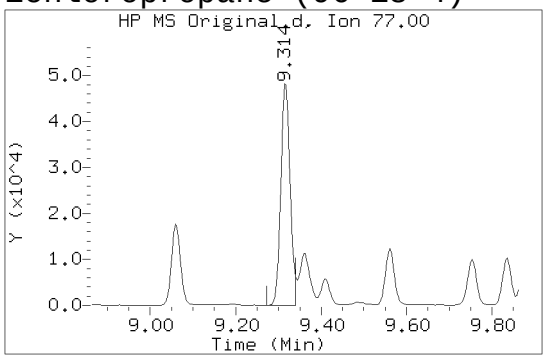
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052907.D
Inj Date : 29-MAY-2024 12:26
InstruID : VOA9.i
LabSampID : VSTD020

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

Reason Code:

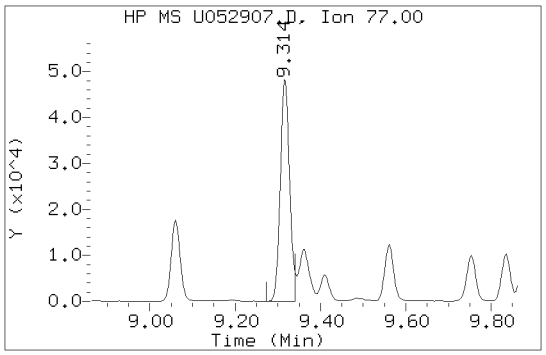
BEFORE

MASS
77
AREA
73236
HEIGHT
48224
06-Jun-2024
17:10
s
zaid



AFTER

MASS
77
AREA
73236
HEIGHT
48224
07-Jun-2024
10:36

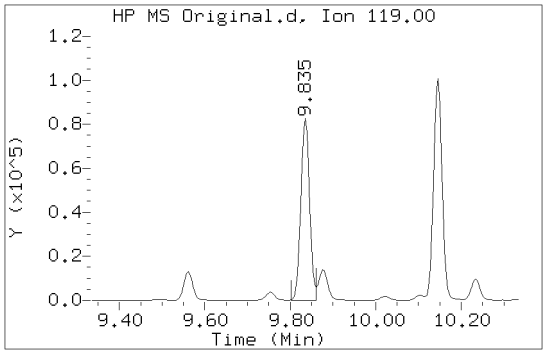


tert-Butylbenzene (98-06-6)

Reason Code:

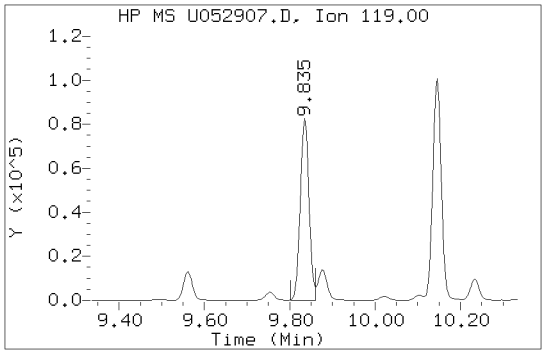
BEFORE

MASS
119
AREA
121457
HEIGHT
82870
06-Jun-2024
17:10
s
zaid



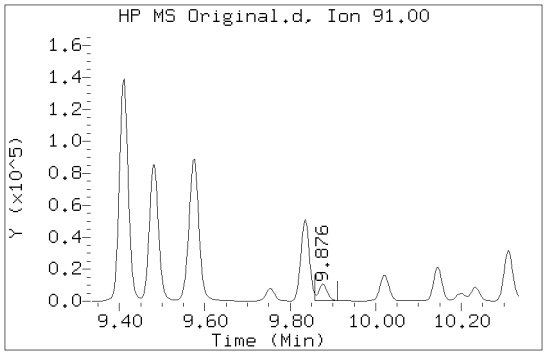
AFTER

MASS
119
AREA
121457
HEIGHT
82870
07-Jun-2024
10:36



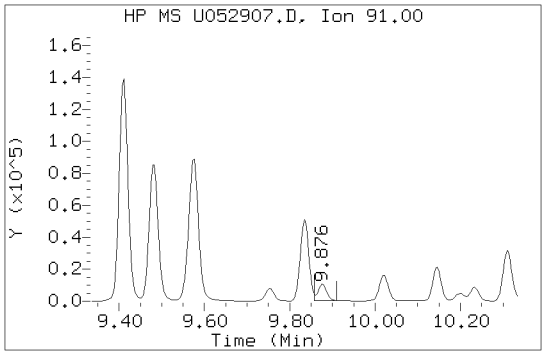
BEFORE

MASS
91
AREA
15283
HEIGHT
10471
06-Jun-2024
17:10
s
zaid



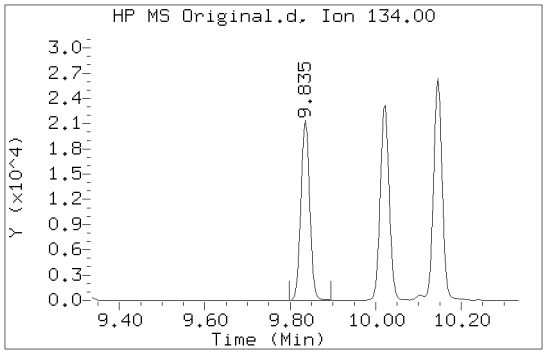
AFTER

MASS
91
AREA
15283
HEIGHT
10471
07-Jun-2024
10:36



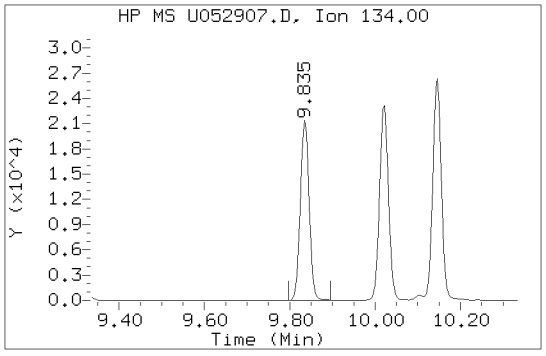
BEFORE

MASS
134
AREA
31454
HEIGHT
21424
06-Jun-2024
17:10
s
zaid



AFTER

MASS
134
AREA
31454
HEIGHT
21424
07-Jun-2024
10:36



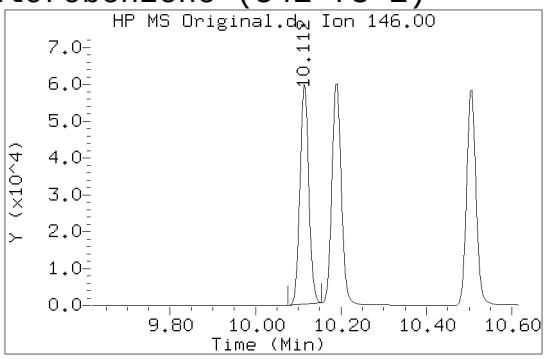
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052907.D
Inj Date : 29-MAY-2024 12:26
InstruID : VOA9.i
LabSampID : VSTD020

1,3-Dichlorobenzene (541-73-1)

Reason Code:

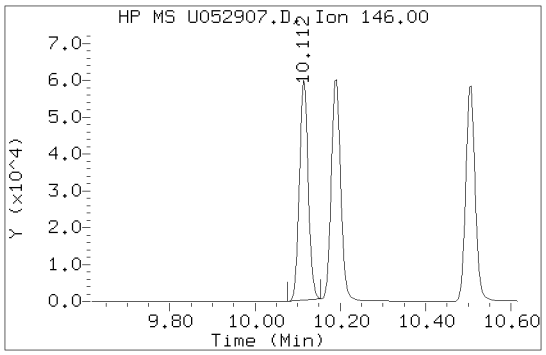
BEFORE

MASS
146
AREA
87097
HEIGHT
59633
06-Jun-2024
17:10
s
zaid



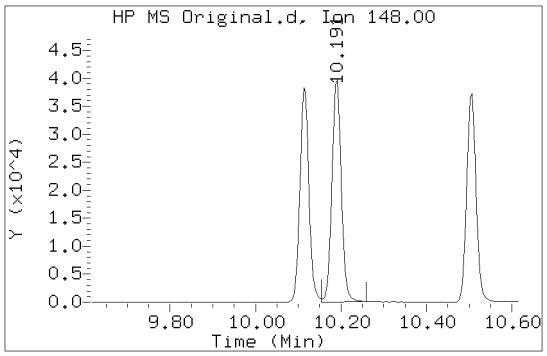
AFTER

MASS
146
AREA
87097
HEIGHT
59633
07-Jun-2024
10:36



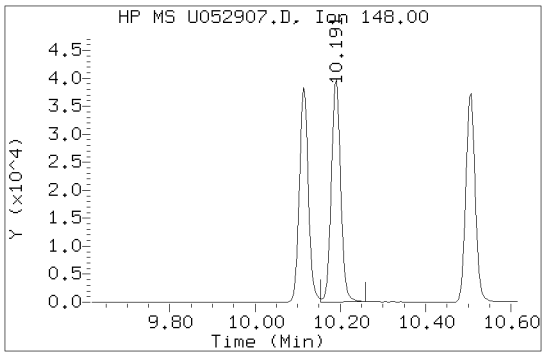
BEFORE

MASS
148
AREA
60382
HEIGHT
39659
06-Jun-2024
17:10
s
zaid



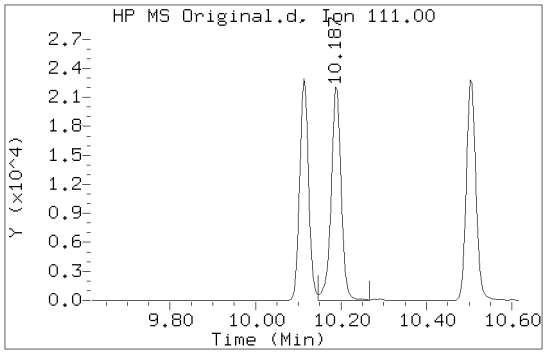
AFTER

MASS
148
AREA
60382
HEIGHT
39659
07-Jun-2024
10:36



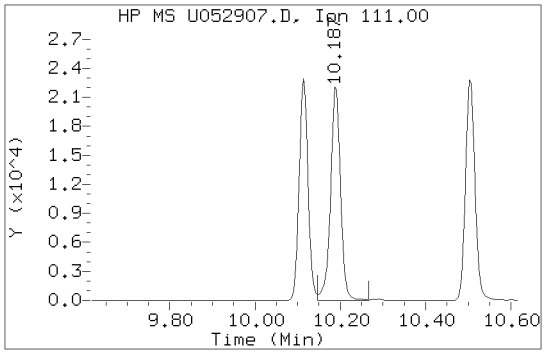
BEFORE

MASS
111
AREA
35846
HEIGHT
22056
06-Jun-2024
17:10
s
zaid



AFTER

MASS
111
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35846
HEIGHT
22056
07-Jun-2024
10:36

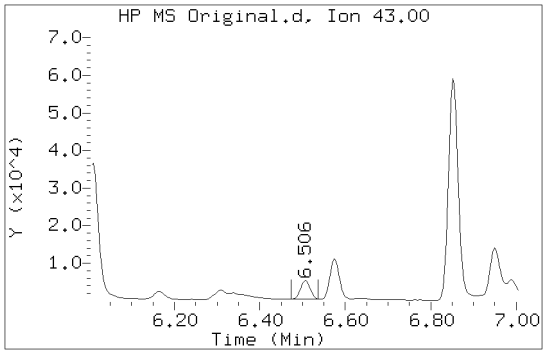


2-Nitropropane (79-46-9)

Reason Code:

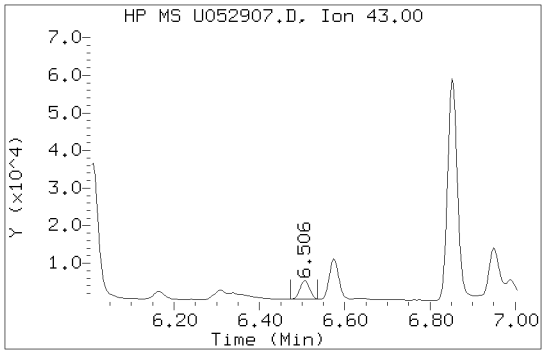
BEFORE

MASS
43
AREA
7738
HEIGHT
4969
06-Jun-2024
17:10
s
zaid



AFTER

MASS
43
AREA
7738
HEIGHT
4969
07-Jun-2024
10:36



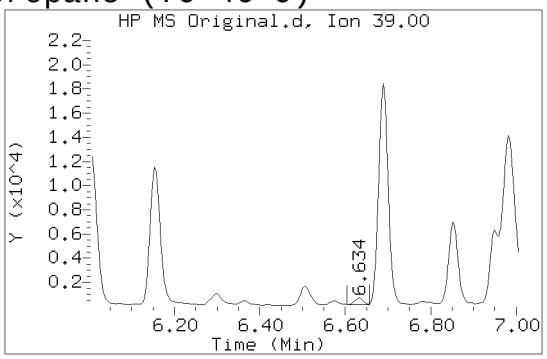
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052907.D
Inj Date : 29-MAY-2024 12:26
InstruID : VOA9.i
LabSampID : VSTD020

2-Nitropropane (79-46-9)

Reason Code:

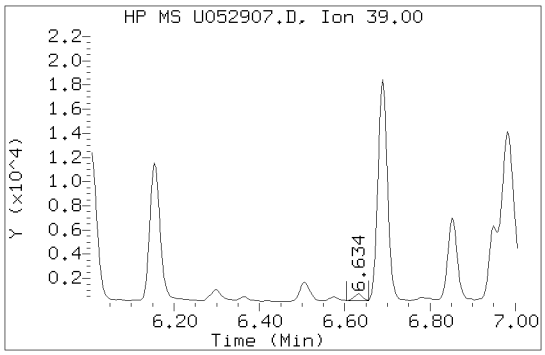
BEFORE

MASS
39
AREA
728
HEIGHT
546
06-Jun-2024
17:10
s
zaid



AFTER

MASS
39
AREA
728
HEIGHT
546
07-Jun-2024
10:36

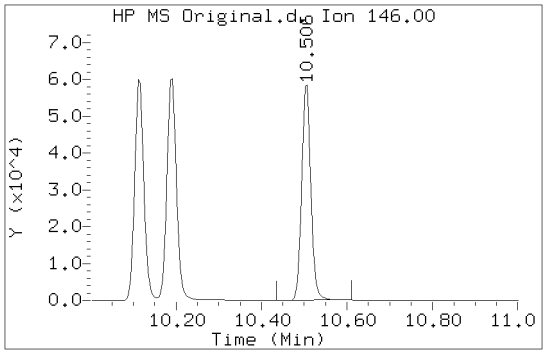


1,2-Dichlorobenzene (95-50-1)

Reason Code:

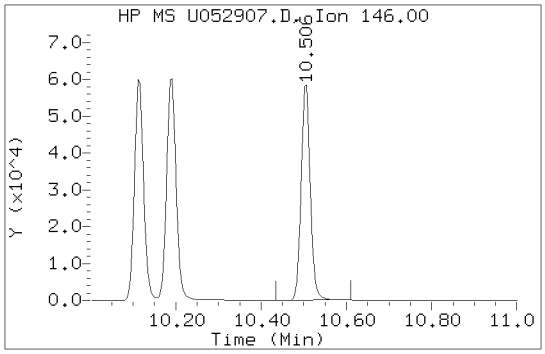
BEFORE

MASS
146
AREA
89111
HEIGHT
58332
06-Jun-2024
17:10
s
zaid



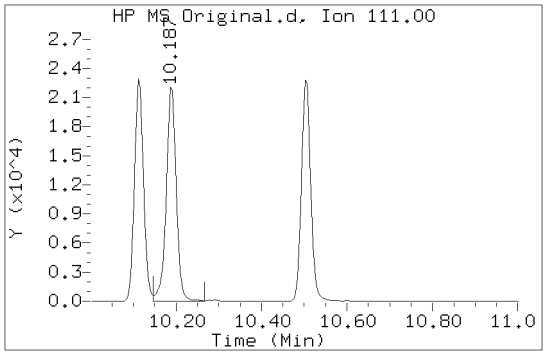
AFTER

MASS
146
AREA
89111
HEIGHT
58332
07-Jun-2024
10:36



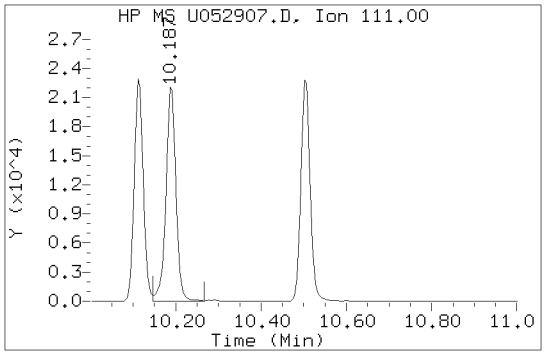
BEFORE

MASS
111
AREA
35846
HEIGHT
22056
06-Jun-2024
17:10
s
zaid



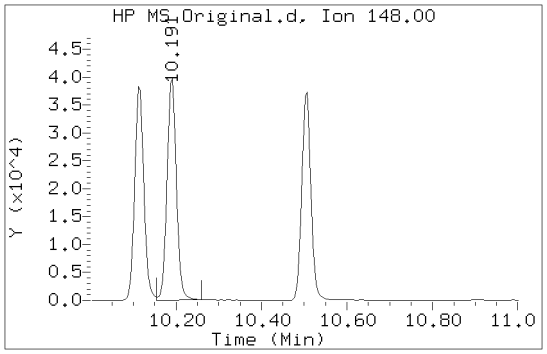
AFTER

MASS
111
AREA
35846
HEIGHT
22056
07-Jun-2024
10:36



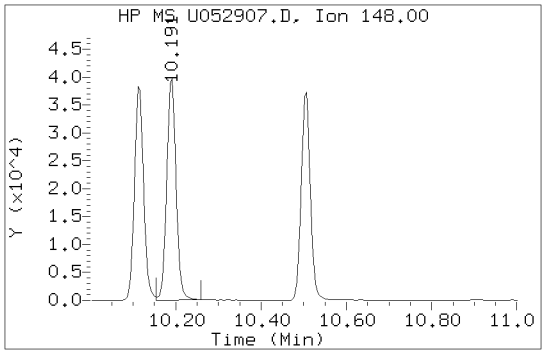
BEFORE

MASS
148
AREA
60382
HEIGHT
39659
06-Jun-2024
17:10
s
zaid



AFTER

MASS
148
AREA
60382
HEIGHT
39659
07-Jun-2024
10:36

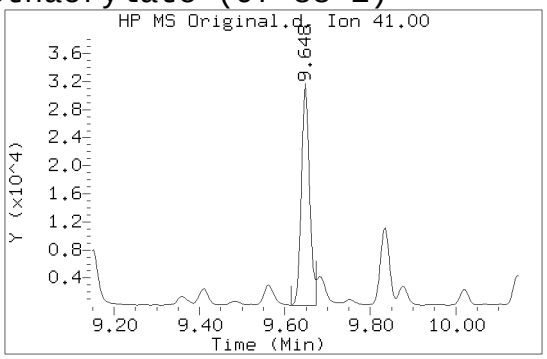


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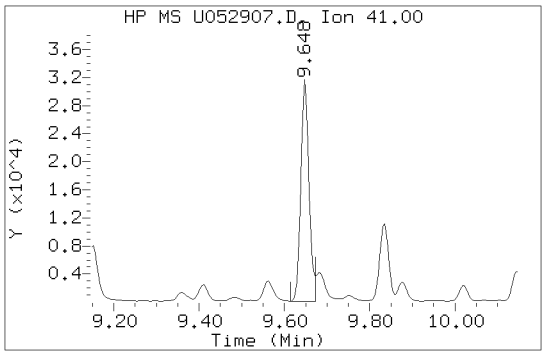
Butyl methacrylate (97-88-1)

Reason Code:

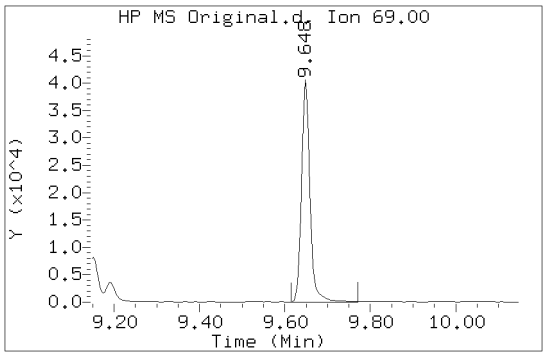
BEFORE
MASS
41
AREA
43733
HEIGHT
31570
06-Jun-2024
17:10
s
zaid



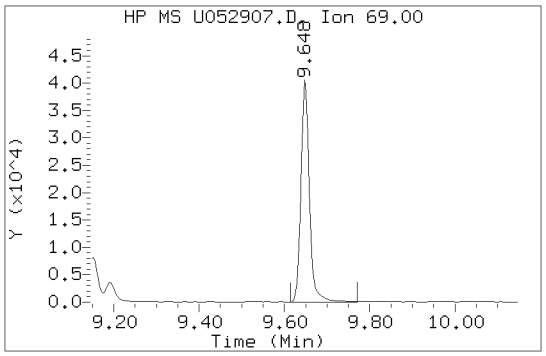
AFTER
MASS
41
AREA
43733
HEIGHT
31570
07-Jun-2024
10:36



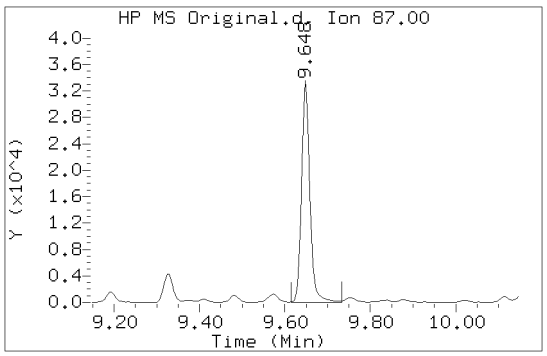
BEFORE
MASS
69
AREA
57826
HEIGHT
40584
06-Jun-2024
17:10
s
zaid



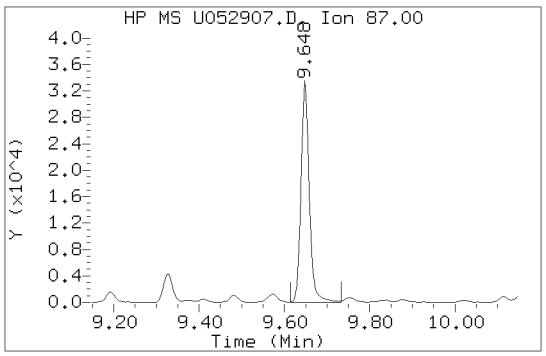
AFTER
MASS
69
AREA
57826
HEIGHT
40584
07-Jun-2024
10:36



BEFORE
MASS
87
AREA
46583
HEIGHT
33536
06-Jun-2024
17:10
s
zaid



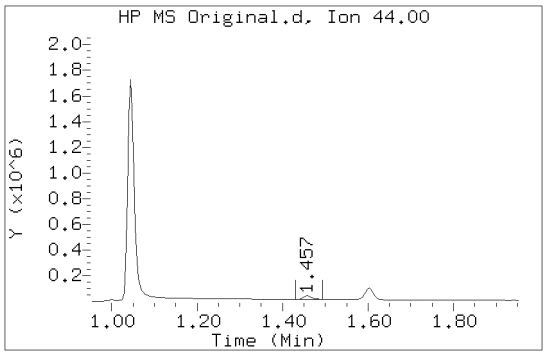
AFTER
MASS
87
AREA
46583
HEIGHT
33536
07-Jun-2024
10:36



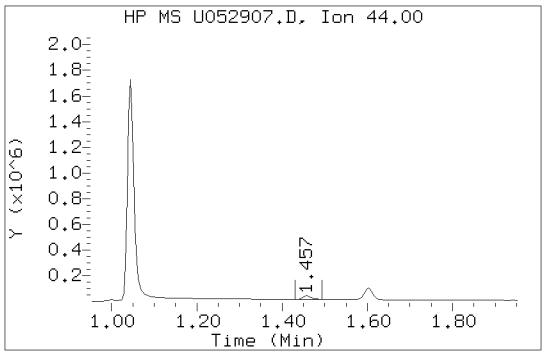
Acetaldehyde (75-07-0)

Reason Code:

BEFORE
MASS
44
AREA
37005
HEIGHT
27626
06-Jun-2024
17:10
s
zaid



AFTER
MASS
44
AREA
37005
HEIGHT
27626
07-Jun-2024
10:36

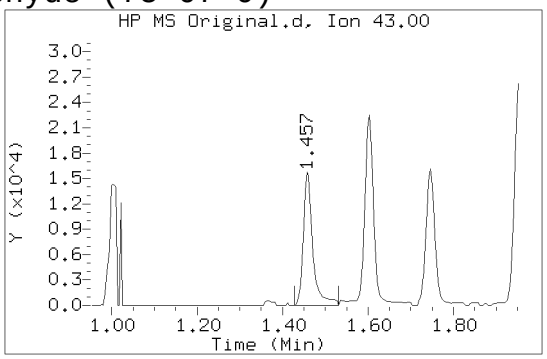


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LabSampID : VSTD020

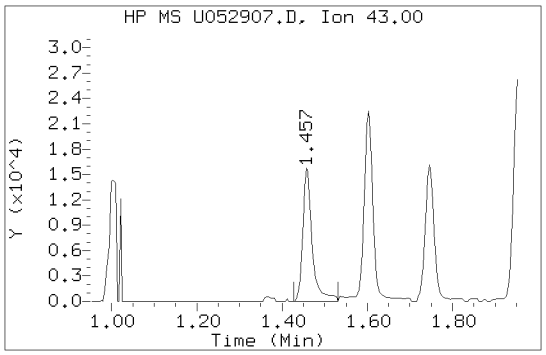
Acetaldehyde (75-07-0)

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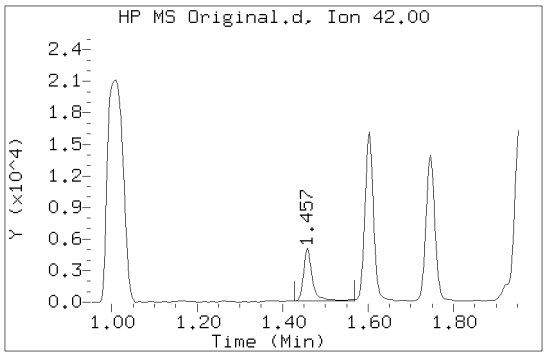
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24828
HEIGHT
15770
06-Jun-2024
17:10
s
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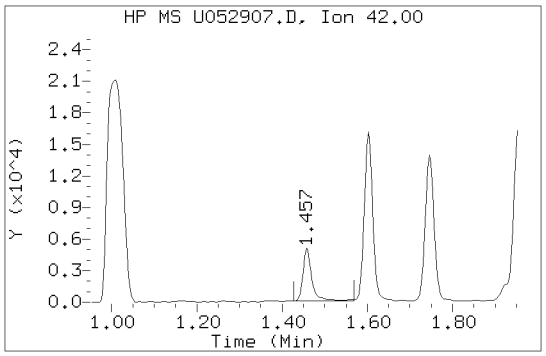
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BEFORE
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s
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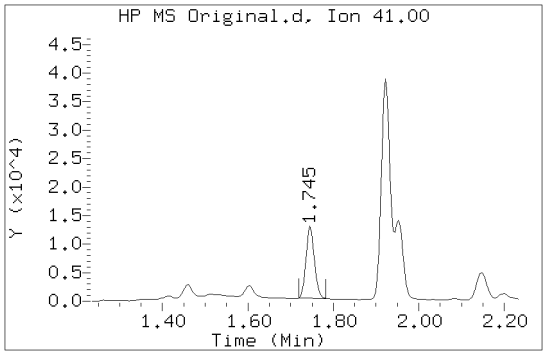
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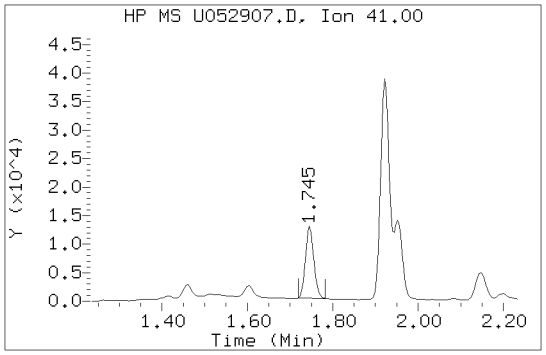
Isobutylene (115-11-7)

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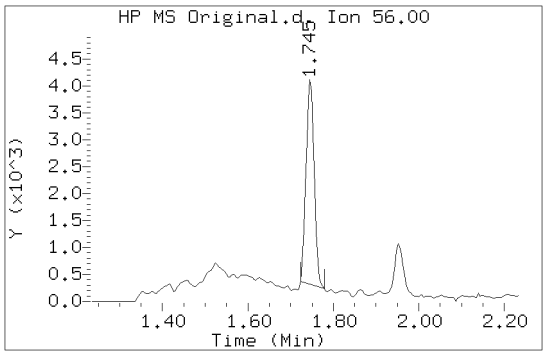
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06-Jun-2024
17:10
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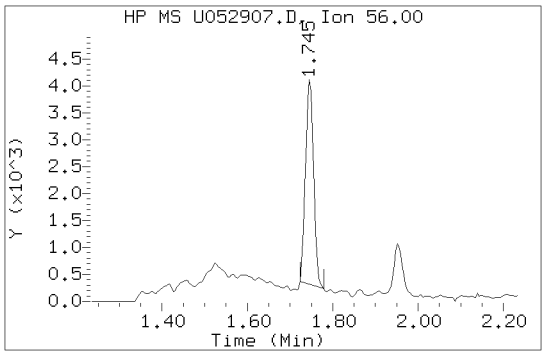
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BEFORE
MASS
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AREA
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HEIGHT
3796
06-Jun-2024
17:10
s
zaid



AFTER
MASS
56
AREA
5165
HEIGHT
3796
07-Jun-2024
10:36



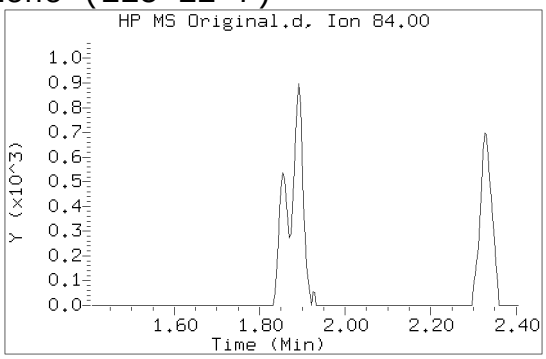
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LabSampID : VSTD020

Isobutylene (115-11-7)

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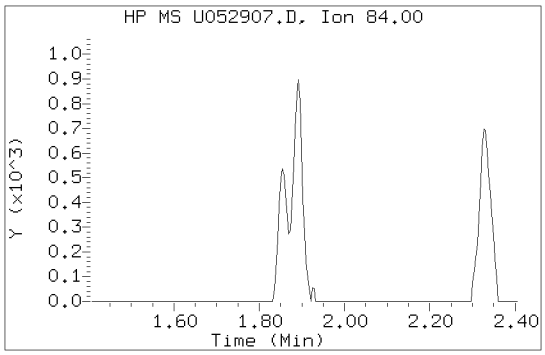
BEFORE

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s
zaid



AFTER

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AREA
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07-Jun-2024
10:36



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052908.D Page 1
Report Date: 07-Jun-2024 10:54

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052908.D
Lab Smp Id: VSTD050 Client Smp ID: VSTD050
Inj Date : 29-MAY-2024 12:48
Operator : FT Inst ID: VOA9.i
Smp Info : VSTD050;VSTD050;1;7
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240529.b\8260C.m
Meth Date : 07-Jun-2024 10:14 r.patel Quant Type: ISTD
Cal Date : 29-MAY-2024 12:48 Cal File: U052908.D
Als bottle: 8 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14

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	4.808	4.811	(1.000)	288116	50.0000	
2	Dichlorodifluoromethane	85	1.157	1.156	(0.241)	54539	50.0000	50.77(M)
3	Chloromethane	50	1.288	1.288	(0.268)	187210	50.0000	48.70
4	Propionitrile	54	4.332	4.339	(0.901)	161164	500.000	509.59
5	Vinyl Chloride	62	1.367	1.366	(0.284)	103673	50.0000	47.65(M)
6	Bromomethane	94	1.603	1.595	(0.333)	48410	50.0000	50.94
7	Chloroethane	64	1.689	1.681	(0.351)	75481	50.0000	49.59(M)
8	Trichlorofluoromethane	101	1.888	1.884	(0.393)	132049	50.0000	51.10
9	Acrolein	56	2.255	2.259	(0.469)	10580	100.000	104.37
10	Acetone	43	2.401	2.405	(0.499)	82879	100.000	95.59
11	1,1-Dichloroethene	96	2.322	2.322	(0.483)	89402	50.0000	47.07
12	Isobutyl Alcohol	43	5.280	5.284	(1.098)	318836	1000.00	1035.86
13	Acetonitrile	39	2.664	2.663	(0.554)	111325	500.000	476.33
14	Allyl Chloride	41	2.664	2.667	(0.554)	277594	50.0000	49.14
15	Iodomethane	142	2.457	2.457	(0.511)	23240	100.000	99.99
16	Acrylonitrile	53	3.057	3.061	(0.636)	79503	100.000	99.35
17	Methylene Chloride	84	2.784	2.783	(0.579)	111343	50.0000	50.01
18	Methyl tert-butyl ether	73	3.072	3.076	(0.639)	265805	50.0000	49.79
19	Carbon Disulfide	76	2.510	2.510	(0.522)	506931	100.000	95.14
20	trans-1,2-Dichloroethene	96	3.050	3.050	(0.634)	98677	50.0000	45.94
21	Vinyl Acetate	43	4.335	4.339	(0.902)	125689	100.000	98.99

22 1,1-Dichloroethane	63	3.503	3.507 (0.729)	182996	50.0000	44.35
23 Chloroprene	53	3.601	3.601 (0.749)	148738	50.0000	49.16

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052908.D Page 2
Report Date: 07-Jun-2024 10:54

			QUANT SIG					AMOUNTS	
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)
	24	2-Butanone	43	4.260	4.260	(0.886)	117518	100.000	91.27
	25	Methacrylonitrile	41	4.489	4.489	(0.934)	64217	50.0000	48.82(a)
	26	2,2-Dichloropropane	77	4.174	4.174	(0.868)	132525	50.0000	48.93
	27	cis-1,2-Dichloroethene	96	4.189	4.189	(0.871)	120897	50.0000	45.57
	28	Chloroform	83	4.568	4.568	(0.950)	188949	50.0000	45.86
	29	Bromochloromethane	128	4.463	4.463	(0.928)	59781	50.0000	48.97
$	30	Dibromofluoromethane	113	4.744	4.744	(0.987)	91670	50.0000	50.06
	31	1,1,1-Trichloroethane	97	4.737	4.736	(0.985)	145269	50.0000	50.35
	32	1,1-Dichloropropene	75	4.917	4.916	(0.886)	141561	50.0000	47.35
	33	1,2-Dichloroethane	62	5.171	5.171	(0.932)	149897	50.0000	48.82(M)
	34	Carbon Tetrachloride	117	4.905	4.905	(0.884)	115100	50.0000	49.15(M)
$	35	1,2-Dichloroethane-d4	65	5.093	5.093	(1.059)	104957	50.0000	47.42
*	36	1,4-Difluorobenzene	114	5.546	5.550	(1.000)	412722	50.0000	
	37	Benzene	78	5.134	5.134	(0.926)	439845	50.0000	45.24
	38	Trichloroethene	130	5.782	5.786	(1.043)	113966	50.0000	47.63
	39	Bromodichloromethane	83	6.274	6.277	(1.131)	129113	50.0000	49.38
	40	Methyl Methacrylate	41	5.820	5.827	(1.210)	48081	50.0000	47.74
	41	2-Chloroethylvinyl ether	63	6.573	6.573	(1.185)	81655	100.000	95.00
	42	1,2-Dichloropropane	63	6.004	6.007	(1.082)	115748	50.0000	45.14(M)
	43	2-Nitropropane	43	6.506	6.506	(1.353)	22745	50.0000	45.97(M)
	44	Dibromomethane	93	6.116	6.116	(1.103)	69793	50.0000	46.87
	45	4-Methyl-2-Pentanone	43	6.851	6.851	(0.837)	249783	100.000	100.20
	46	cis-1,3-Dichloropropene	75	6.686	6.690	(1.205)	171538	50.0000	49.52
*	47	Chlorobenzene-d5	117	8.182	8.185	(1.000)	369629	50.0000	
$	48	Toluene-d8	98	6.918	6.918	(0.846)	337359	50.0000	47.87
	49	Ethyl Methacrylate	69	7.289	7.289	(1.314)	147001	50.0000	46.04
	50	Toluene	91	6.978	6.978	(0.853)	446323	50.0000	44.48
	51	trans-1,3-Dichloropropene	75	7.192	7.196	(1.297)	138911	50.0000	48.98
	52	2-Hexanone	43	7.589	7.589	(0.928)	156001	100.000	96.32(M)
	53	1,1,2-Trichloroethane	83	7.353	7.353	(0.899)	88934	50.0000	50.43
	54	1,3-Dichloropropane	76	7.496	7.499	(0.916)	190952	50.0000	46.72
	55	Dibromochloromethane	129	7.691	7.690	(0.940)	106831	50.0000	49.30
	56	Tetrachloroethene	164	7.454	7.454	(0.911)	86772	50.0000	49.51
	57	1,2-Dibromoethane	107	7.781	7.784	(0.951)	107546	50.0000	48.73
	58	1-Chlorohexane	55	8.193	8.196	(1.477)	80903	50.0000	47.26
	59	Chlorobenzene	112	8.208	8.208	(1.003)	290929	50.0000	45.66
	60	1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	102600	50.0000	50.46
	61	Ethylbenzene	106	8.305	8.305	(1.015)	147348	50.0000	50.00
	62	m,p-Xylenes	106	8.407	8.406	(1.027)	376184	100.000	98.91
	63	o-Xylene	106	8.744	8.744	(1.069)	182488	50.0000	47.79
	64	Styrene	104	8.759	8.759	(1.071)	302716	50.0000	49.47
	66	Bromoform	173	8.916	8.916	(1.090)	68173	50.0000	48.48
	67	Isopropylbenzene	105	9.059	9.059	(1.107)	442871	50.0000	50.19
	68	1,1,2,2-Tetrachloroethane	83	9.325	9.329	(0.917)	151278	50.0000	46.20
$	69	4-Bromofluorobenzene	95	9.190	9.190	(1.123)	124362	50.0000	48.37
*	70	1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	196973	50.0000	
	71	1,2,3-Trichloropropane	75	9.359	9.362	(0.920)	150016	50.0000	48.86(M)
	72	trans-1,4-Dichloro-2-butene	53	9.374	9.377	(1.146)	30150	50.0000	47.74
	73	n-Propylbenzene	91	9.407	9.411	(0.925)	514942	50.0000	48.51
	74	Bromobenzene	156	9.314	9.317	(0.916)	127975	50.0000	47.24
	75	1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	361104	50.0000	49.95
	76	2-Chlorotoluene	91	9.479	9.482	(0.932)	315078	50.0000	50.94

77 4-Chlorotoluene	91	9.572	9.576 (0.941)	361262	50.0000	47.40
78 tert-Butylbenzene	119	9.835	9.835 (0.967)	304303	50.0000	51.06(M)

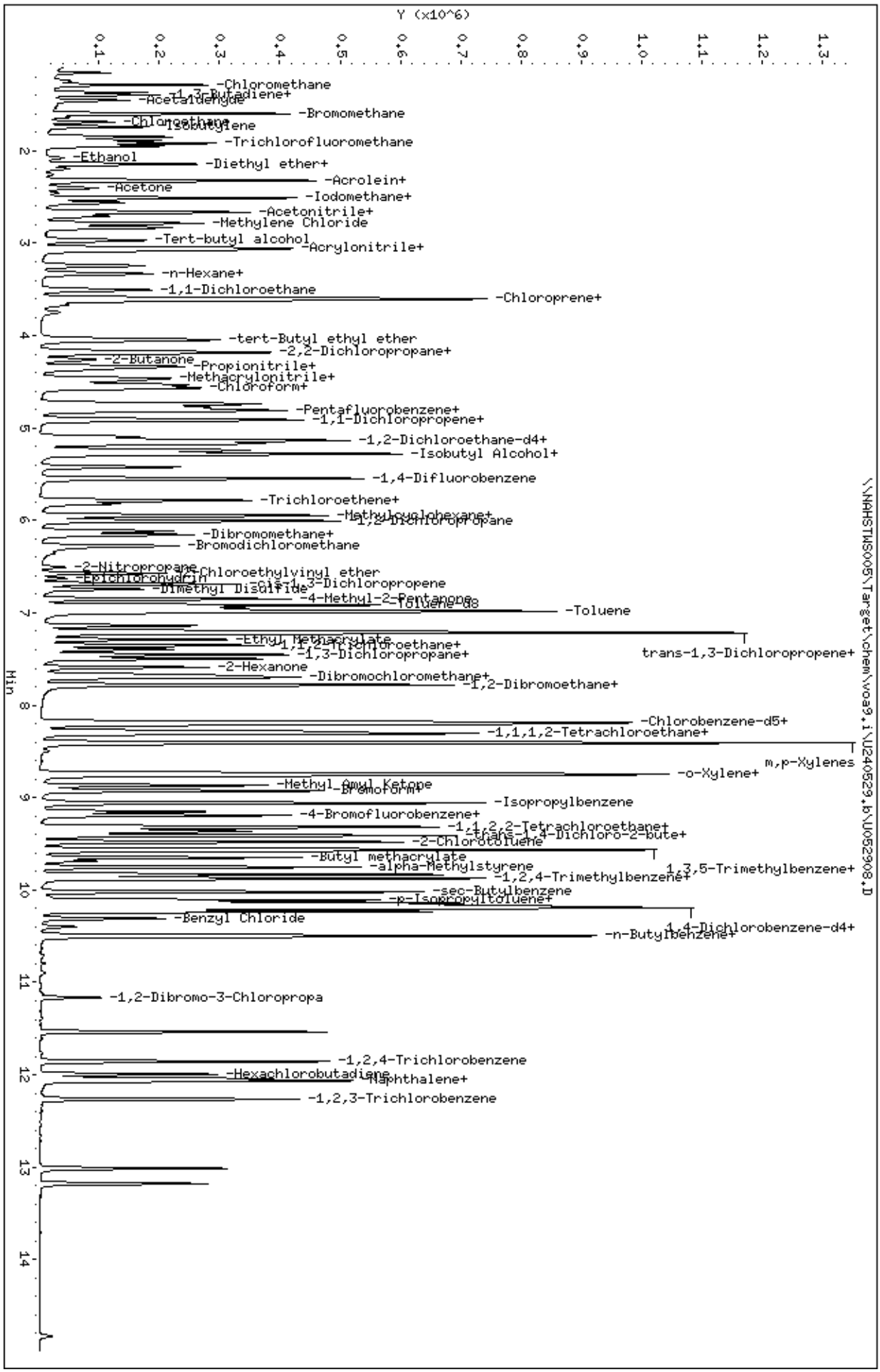
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
79	1,2,4-Trimethylbenzene	105	9.876	9.876	(0.971)	370379	50.0000	49.86
81	sec-Butylbenzene	105	10.018	10.022	(0.985)	412734	50.0000	51.02
82	p-Isopropyltoluene	119	10.146	10.146	(0.998)	361771	50.0000	51.32
83	1,3-Dichlorobenzene	146	10.112	10.116	(0.994)	216427	50.0000	47.31(M)
84	1,4-Dichlorobenzene	146	10.187	10.191	(1.002)	227651	50.0000	44.94
86	Benzyl Chloride	91	10.307	10.311	(1.260)	138884	50.0000	46.29
87	n-Butylbenzene	91	10.491	10.491	(1.032)	312016	50.0000	49.11
88	1,2-Dichlorobenzene	146	10.502	10.502	(1.033)	215967	50.0000	45.57(M)
89	1,2-Dibromo-3-Chloropropane	155	11.166	11.165	(1.098)	20853	50.0000	50.15
90	1,2,4-Trichlorobenzene	180	11.855	11.855	(1.166)	144427	50.0000	48.36
91	Hexachlorobutadiene	225	11.994	11.998	(1.180)	54931	50.0000	45.84
92	Naphthalene	128	12.065	12.065	(1.187)	365632	50.0000	50.39
93	1,2,3-Trichlorobenzene	180	12.268	12.268	(1.206)	134331	50.0000	48.29
146	Methyl acetate	43	2.705	2.708	(0.563)	112240	50.0000	49.22
138	Freon TF	101	2.326	2.326	(0.484)	78742	50.0000	49.15
141	Cyclohexane	56	4.778	4.778	(0.994)	132365	50.0000	48.29
142	Tetrahydrofuran	42	4.538	4.542	(0.944)	41576	100.000	100.76
147	Methylcyclohexane	55	5.944	5.944	(1.072)	249751	50.0000	48.93
135	1,4-Dioxane	88	6.165	6.168	(1.282)	28576	1000.00	968.30
132	n-Butanol	56	5.820	5.827	(1.210)	69388	1000.00	894.00
136	n-Hexane	57	3.331	3.331	(0.693)	91764	50.0000	47.84
139	Diethyl ether	59	2.139	2.139	(0.445)	75842	50.0000	50.13
148	Tert-butyl alcohol	59	2.967	2.975	(0.617)	200951	1000.00	1010.10
149	Isopropyl alcohol	45	2.562	2.570	(0.533)	157210	1000.00	1007.63(T)
152	Amyl alcohol	42	7.394	7.398	(0.904)	77196	1000.00	945.68
156	Diisopropyl ether	45	3.616	3.619	(0.752)	329115	50.0000	44.73
162	Butyl acrylate	55	8.729	8.733	(1.067)	186832	50.0000	47.10
187	n-Amyl acetate	43	8.928	8.931	(1.091)	188918	50.0000	47.07
164	Dicyclopentadiene	66	10.198	10.198	(1.003)	468567	50.0000	46.38
166	1,2,3-Trimethylbenzene	105	10.232	10.232	(1.006)	333316	50.0000	48.55
167	Ethanol	45	2.079	2.086	(0.432)	29366	1000.00	1003.32
172	tert-Butyl formate	59	5.239	5.250	(1.090)	209892	100.000	92.22
173	3,3-Dimethyl-1-butanol	57	7.781	7.784	(0.951)	235172	1000.00	914.09
174	tert-Amyl methyl ether	73	5.284	5.284	(1.099)	299172	50.0000	44.37
175	tert-Butyl ethyl ether	59	4.043	4.047	(0.841)	297796	50.0000	45.19
176	tert-Amyl alcohol	59	5.239	5.250	(1.090)	209892	1000.00	911.64
151	4-Methyl-2-pentanol	45	7.214	7.222	(1.301)	647574	1000.00	956.22
140	1,3-Butadiene	54	1.396	1.396	(0.291)	51777	50.0000	48.57
182	Epichlorohydrin	57	6.626	6.630	(1.195)	29367	200.000	202.87
M 94	1,2-Dichloroethylene (total)	96				219574	100.000	(a)
145	alpha-Methylstyrene	118	9.752	9.752	(0.959)	150603	50.0000	49.86
130	Ethyl Acetate	43	4.335	4.339	(0.902)	125689	50.0000	47.36
131	Methyl Acrylate	55	4.362	4.365	(0.907)	131096	50.0000	49.31
189	n-Butyl acetate	43	7.702	7.702	(0.941)	184225	50.0000	47.47
134	Cyclohexanone	55	9.149	9.152	(0.900)	104997	1000.00	937.01
185	Isoprene	39	2.146	2.146	(0.446)	22038	50.0000	48.06
188	Isopropyl acetate	43	5.280	5.284	(0.952)	315895	50.0000	46.12
150	Allyl alcohol	57	3.331	3.331	(0.693)	91764	1000.00	956.87
194	Acetaldehyde	44	1.453	1.453	(0.302)	97166	200.000	203.55(M)
195	Methyl Amyl Ketone	43	8.864	8.868	(1.083)	206617	50.0000	45.88
200	Dimethyl Disulfide	94	6.742	6.746	(0.824)	68045	50.0000	38.47
202	Isobutylene	41	1.741	1.734	(0.362)	43949	50.0000	49.62(M)

133 Ethyl Acrylate	55	5.944	5.944 (1.236)	249751	50.0000	48.82	
163 Butyl methacrylate	41	9.647	9.647 (0.949)	104298	50.0000	45.76	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
159 Propylene oxide	43	2.191	2.191	(0.456)	16421	100.000	99.42
203 2-Ethylhexyl Acrylate	55	12.039	12.039	(1.184)	121736	50.0000	49.55

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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Column phase: DB624

Instrument: VOA9.i
Operator: FT
Column diameter: 0.18

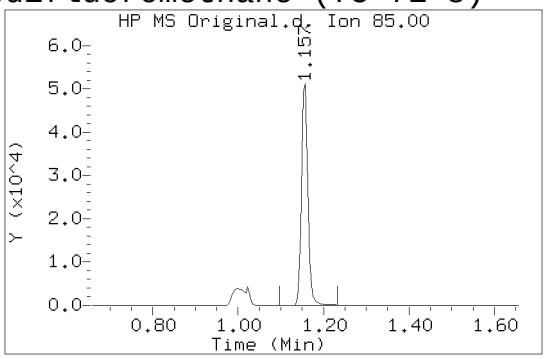
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Inj Date : 29-MAY-2024 12:48
InstruID : VOA9.i
LabSampID : VSTD050

Dichlorodifluoromethane (75-71-8)

Reason Code:

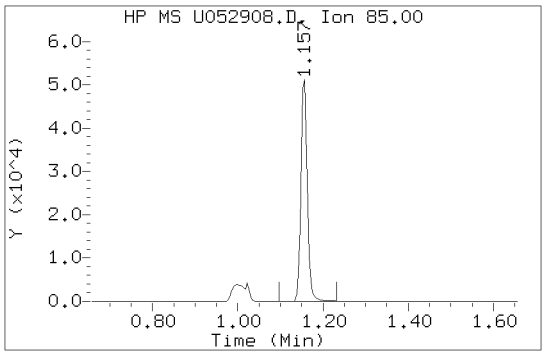
BEFORE

MASS
85
AREA
54539
HEIGHT
51184
06-Jun-2024
17:16
s
zaid



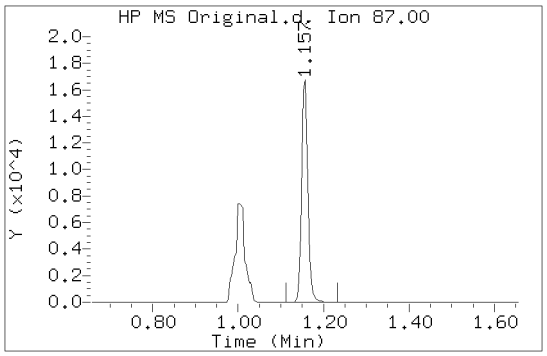
AFTER

MASS
85
AREA
54539
HEIGHT
51184
07-Jun-2024
10:36



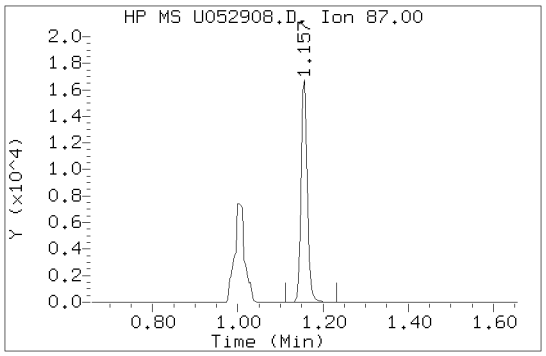
BEFORE

MASS
87
AREA
17424
HEIGHT
16744
06-Jun-2024
17:16
s
zaid



AFTER

MASS
87
AREA
17424
HEIGHT
16744
07-Jun-2024
10:36

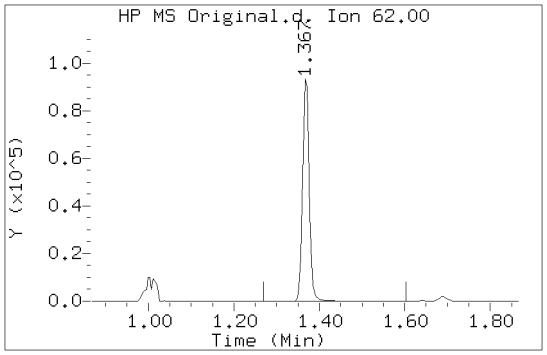


Vinyl Chloride (75-01-4)

Reason Code:

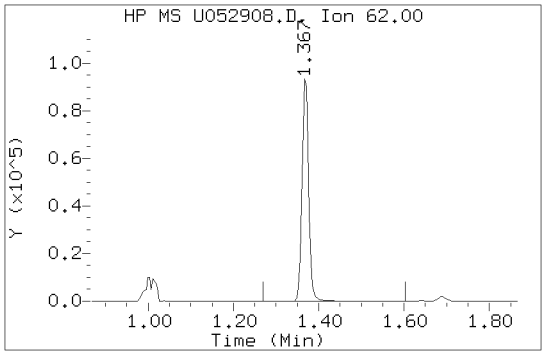
BEFORE

MASS
62
AREA
103673
HEIGHT
93360
06-Jun-2024
17:16
s
zaid



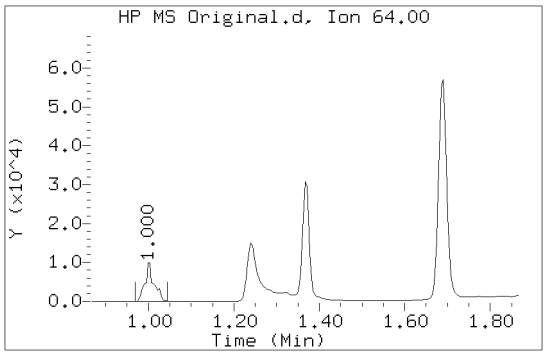
AFTER

MASS
62
AREA
103673
HEIGHT
93360
07-Jun-2024
10:36



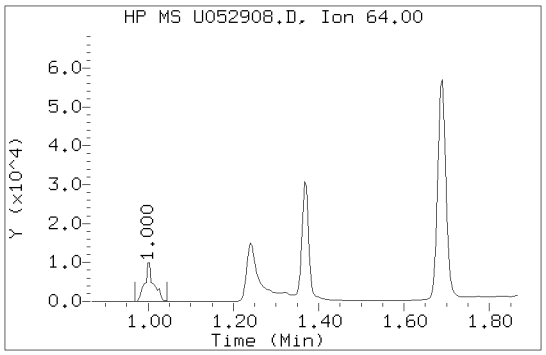
BEFORE

MASS
64
AREA
14377
HEIGHT
9930
06-Jun-2024
17:16
s
zaid



AFTER

MASS
64
AREA
14377
HEIGHT
9930
07-Jun-2024
10:36



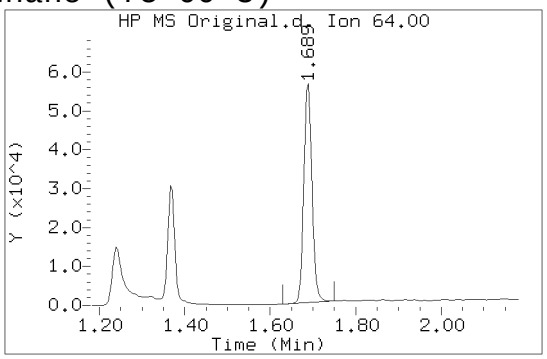
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Inj Date : 29-MAY-2024 12:48
InstruID : VOA9.i
LabSampID : VSTD050

Chloroethane (75-00-3)

Reason Code:

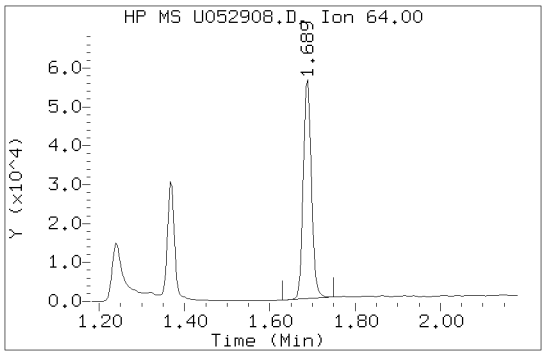
BEFORE

MASS
64
AREA
75481
HEIGHT
56270
06-Jun-2024
17:16
s
zaid



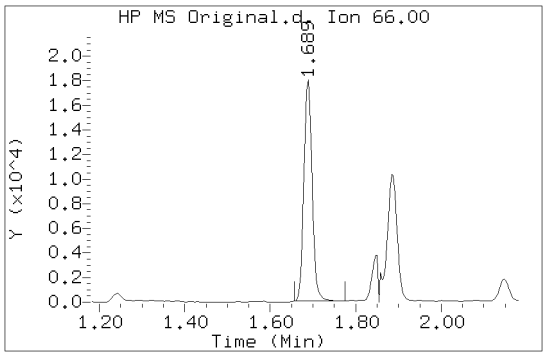
AFTER

MASS
64
AREA
75481
HEIGHT
56270
07-Jun-2024
10:36



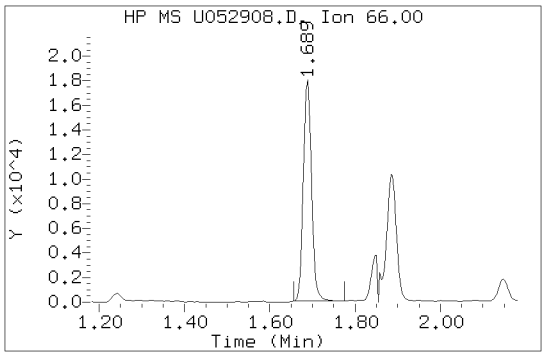
BEFORE

MASS
66
AREA
24481
HEIGHT
17983
06-Jun-2024
17:16
s
zaid



AFTER

MASS
66
AREA
24481
HEIGHT
17983
07-Jun-2024
10:36

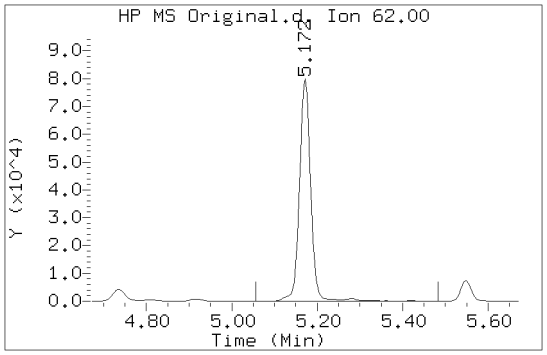


1,2-Dichloroethane (107-06-2)

Reason Code:

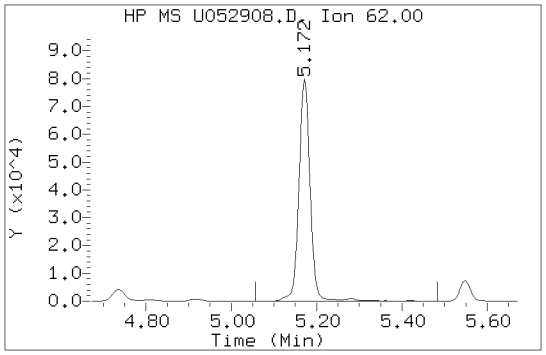
BEFORE

MASS
62
AREA
149897
HEIGHT
79880
06-Jun-2024
17:16
s
zaid



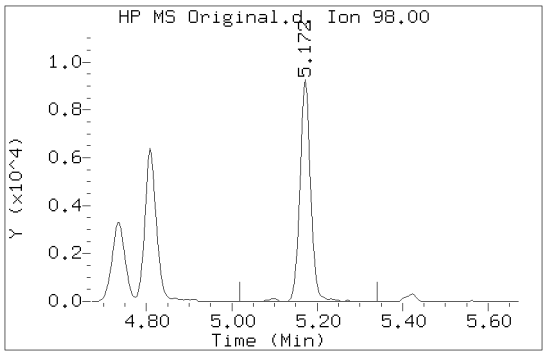
AFTER

MASS
62
AREA
149897
HEIGHT
79880
07-Jun-2024
10:36



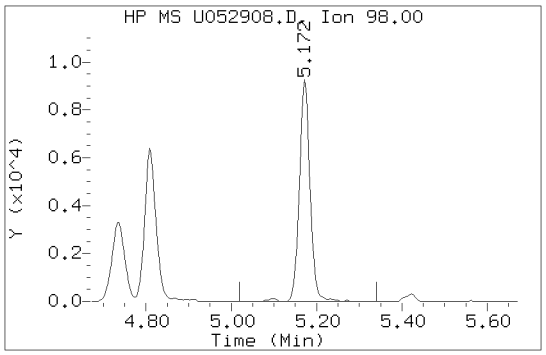
BEFORE

MASS
98
AREA
16480
HEIGHT
9263
06-Jun-2024
17:16
s
zaid



AFTER

MASS
98
AREA
16480
HEIGHT
9263
07-Jun-2024
10:36

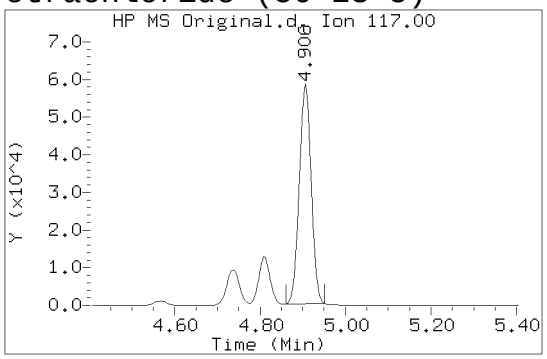


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Inj Date : 29-MAY-2024 12:48
InstruID : VOA9.i
LabSampID : VSTD050

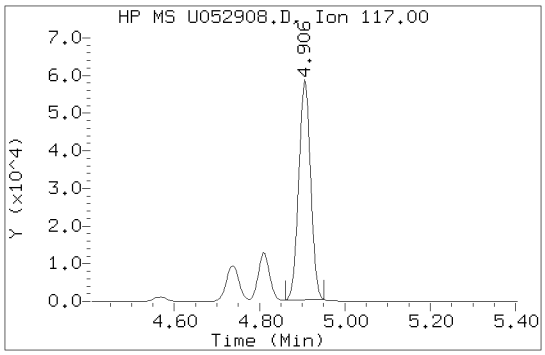
Carbon Tetrachloride (56-23-5)

Reason Code:

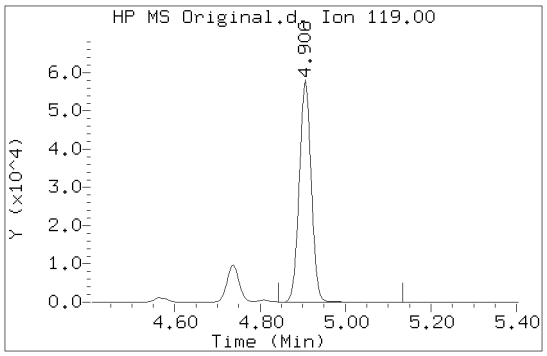
BEFORE
MASS
117
AREA
115100
HEIGHT
58464
06-Jun-2024
17:16
s
zaid



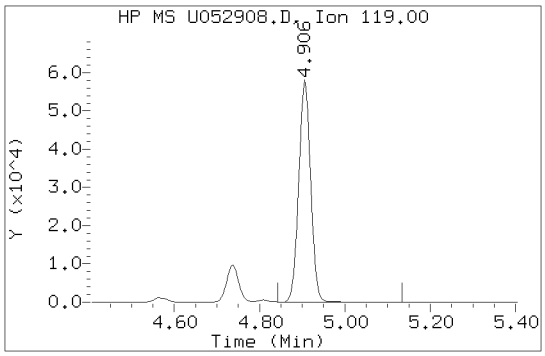
AFTER
MASS
117
AREA
115100
HEIGHT
58464
07-Jun-2024
10:36



BEFORE
MASS
119
AREA
115025
HEIGHT
58120
06-Jun-2024
17:16
s
zaid



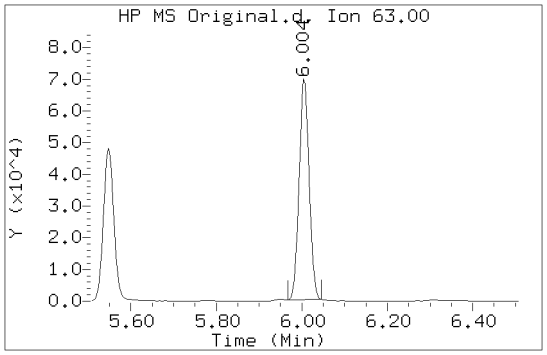
AFTER
MASS
119
AREA
115025
HEIGHT
58120
07-Jun-2024
10:36



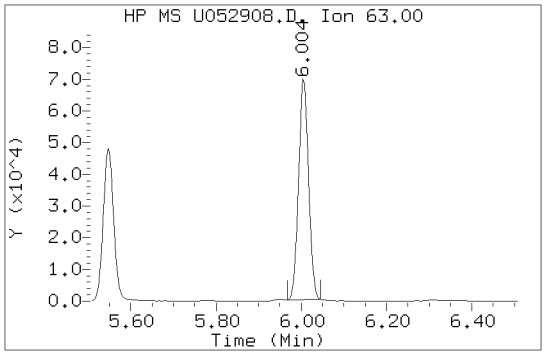
1,2-Dichloropropane (78-87-5)

Reason Code:

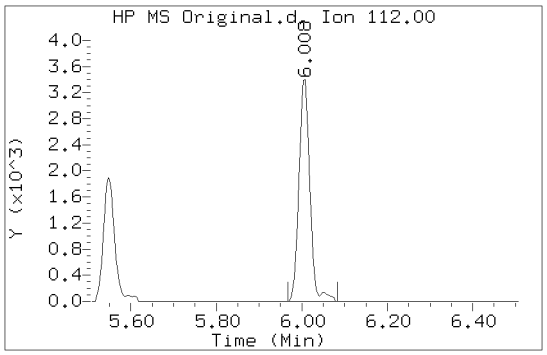
BEFORE
MASS
63
AREA
115748
HEIGHT
69658
06-Jun-2024
17:16
s
zaid



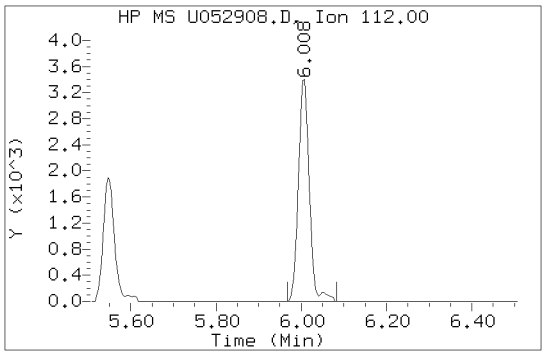
AFTER
MASS
63
AREA
115748
HEIGHT
69658
07-Jun-2024
10:36



BEFORE
MASS
112
AREA
6188
HEIGHT
3398
06-Jun-2024
17:16
s
zaid



AFTER
MASS
112
AREA
6188
HEIGHT
3398
07-Jun-2024
10:36

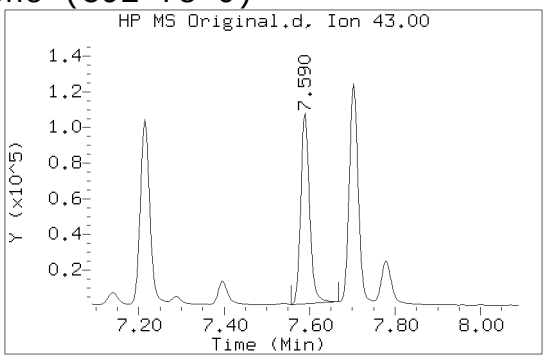


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Inj Date : 29-MAY-2024 12:48
InstruID : VOA9.i
LabSampID : VSTD050

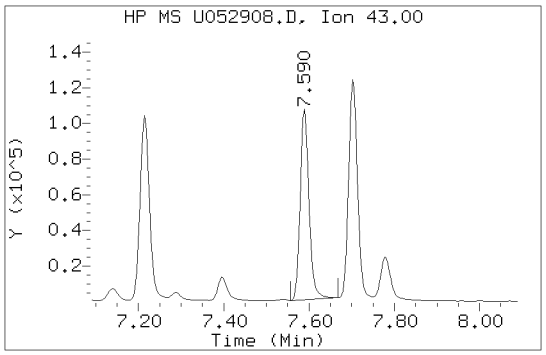
2-Hexanone (591-78-6)

Reason Code:

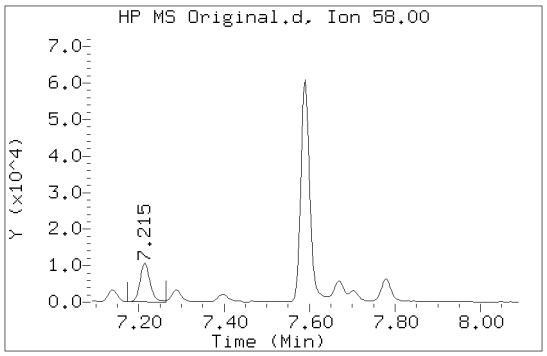
BEFORE
MASS
43
AREA
156001
HEIGHT
106896
06-Jun-2024
17:16
s
zaid



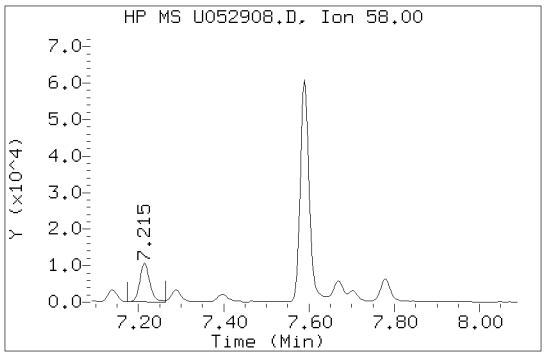
AFTER
MASS
43
AREA
156001
HEIGHT
106896
07-Jun-2024
10:36



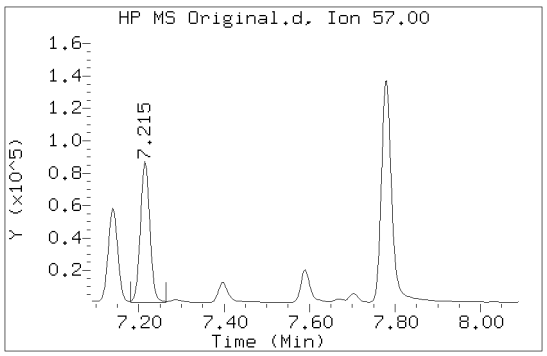
BEFORE
MASS
58
AREA
17346
HEIGHT
10624
06-Jun-2024
17:16
s
zaid



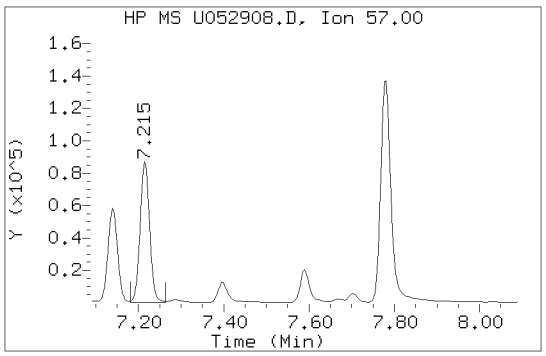
AFTER
MASS
58
AREA
17346
HEIGHT
10624
07-Jun-2024
10:36



BEFORE
MASS
57
AREA
133877
HEIGHT
87137
06-Jun-2024
17:16
s
zaid



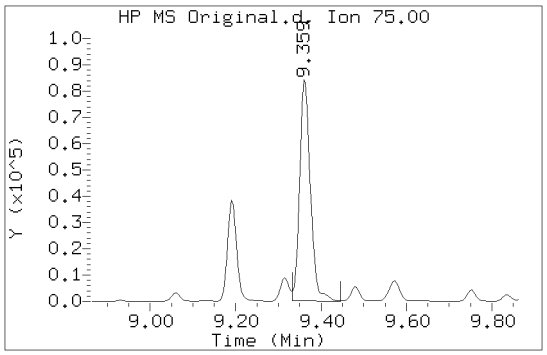
AFTER
MASS
57
AREA
133877
HEIGHT
87137
07-Jun-2024
10:36



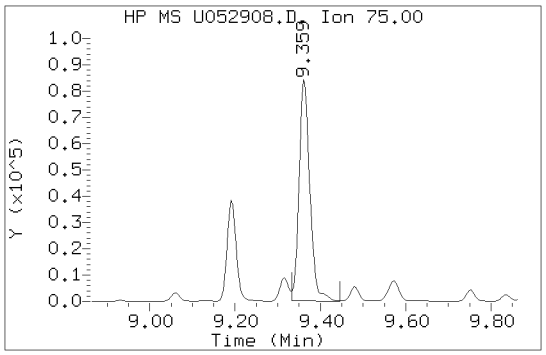
1,2,3-Trichloropropane (96-18-4)

Reason Code:

BEFORE
MASS
75
AREA
150016
HEIGHT
84176
06-Jun-2024
17:16
s
zaid



AFTER
MASS
75
AREA
150016
HEIGHT
84176
07-Jun-2024
10:36

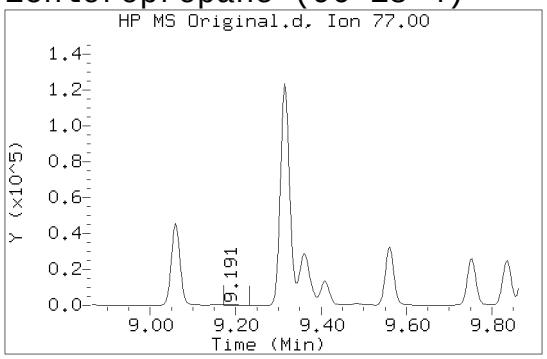


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Inj Date : 29-MAY-2024 12:48
InstruID : VOA9.i
LabSampID : VSTD050

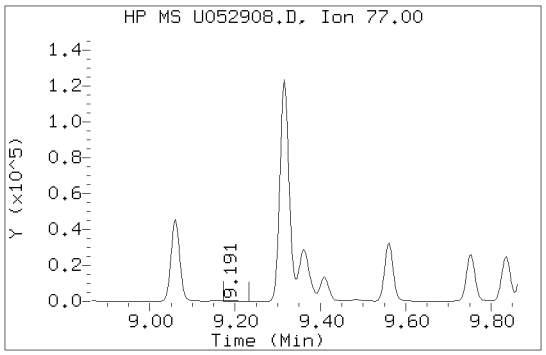
1,2,3-Trichloropropane (96-18-4)

Reason Code:

BEFORE
MASS
77
AREA
710
HEIGHT
473
06-Jun-2024
17:16
s
zaid



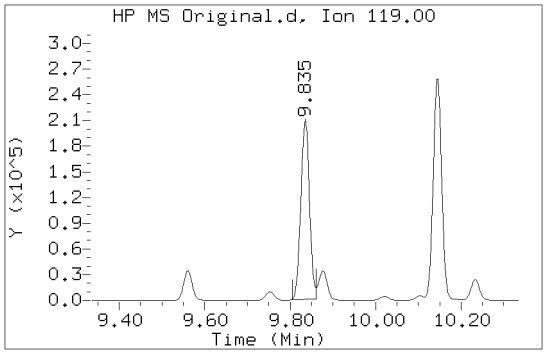
AFTER
MASS
77
AREA
710
HEIGHT
473
07-Jun-2024
10:36



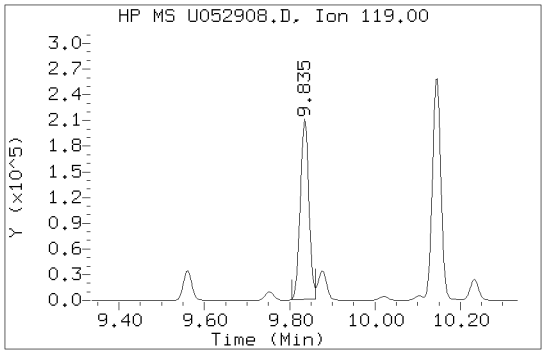
tert-Butylbenzene (98-06-6)

Reason Code:

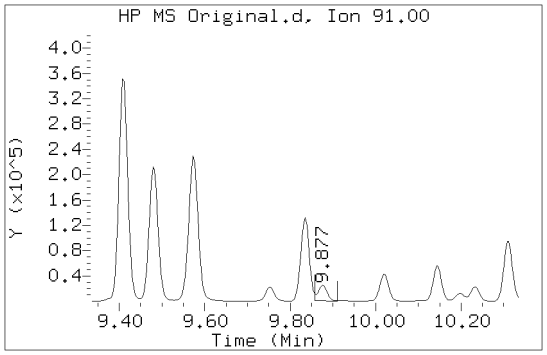
BEFORE
MASS
119
AREA
304303
HEIGHT
210909
06-Jun-2024
17:16
s
zaid



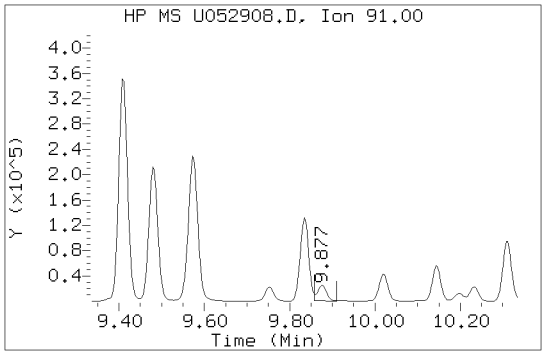
AFTER
MASS
119
AREA
304303
HEIGHT
210909
07-Jun-2024
10:36



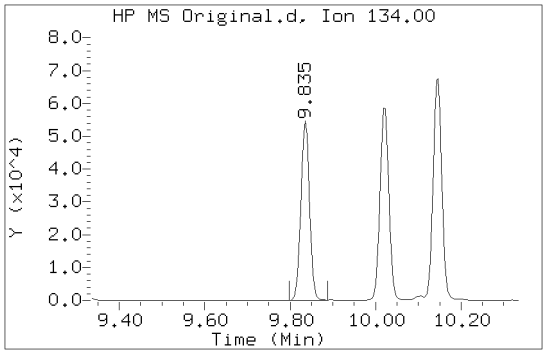
BEFORE
MASS
91
AREA
37883
HEIGHT
25149
06-Jun-2024
17:16
s
zaid



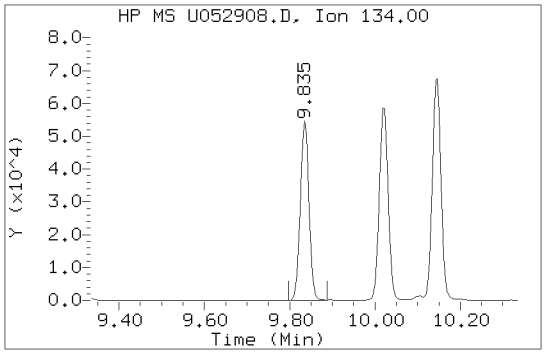
AFTER
MASS
91
AREA
37883
HEIGHT
25149
07-Jun-2024
10:36



BEFORE
MASS
134
AREA
78614
HEIGHT
54632
06-Jun-2024
17:16
s
zaid



AFTER
MASS
134
AREA
78614
HEIGHT
54632
07-Jun-2024
10:36



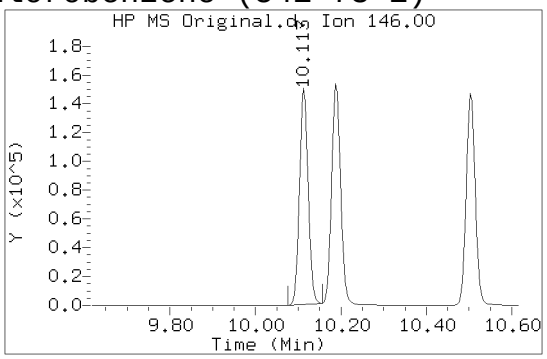
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Inj Date : 29-MAY-2024 12:48
InstruID : VOA9.i
LabSampID : VSTD050

1,3-Dichlorobenzene (541-73-1)

Reason Code:

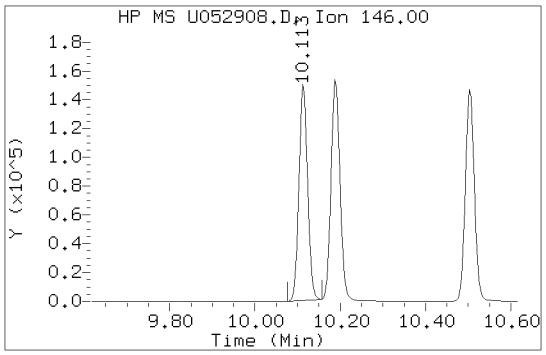
BEFORE

MASS
146
AREA
216427
HEIGHT
150403
06-Jun-2024
17:16
s
zaid



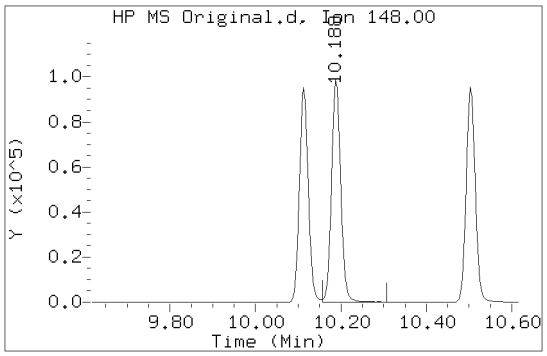
AFTER

MASS
146
AREA
216427
HEIGHT
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07-Jun-2024
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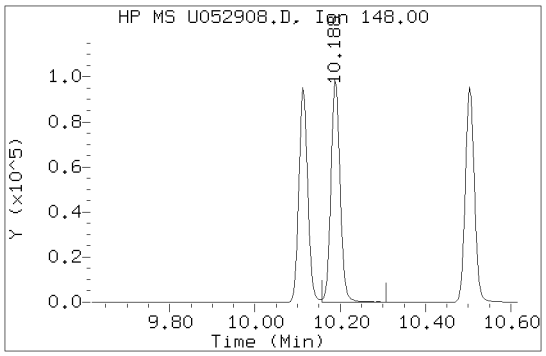
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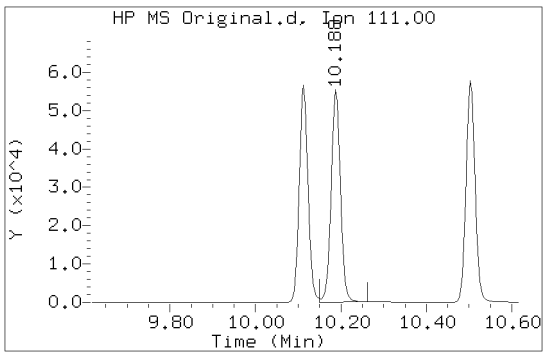
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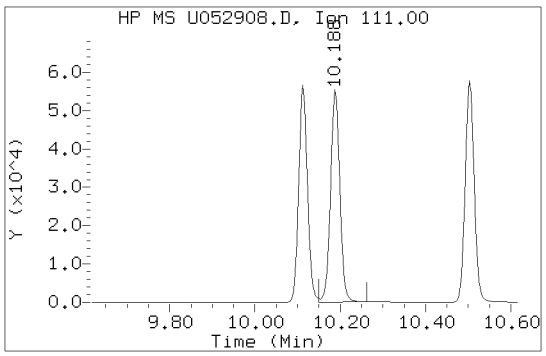
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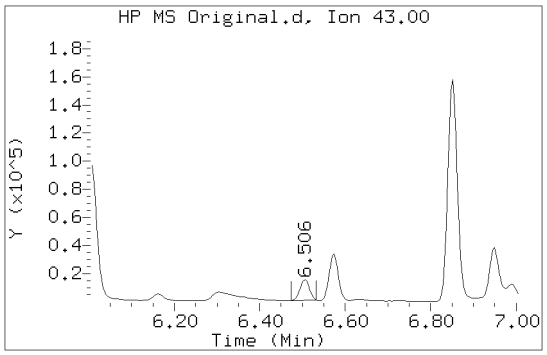


2-Nitropropane (79-46-9)

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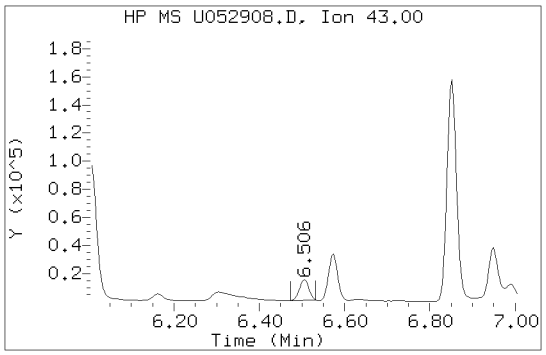
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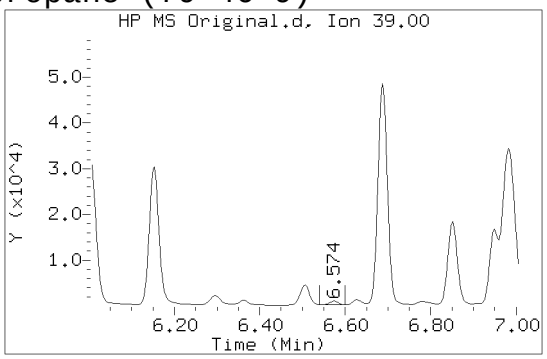
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LabSampID : VSTD050

2-Nitropropane (79-46-9)

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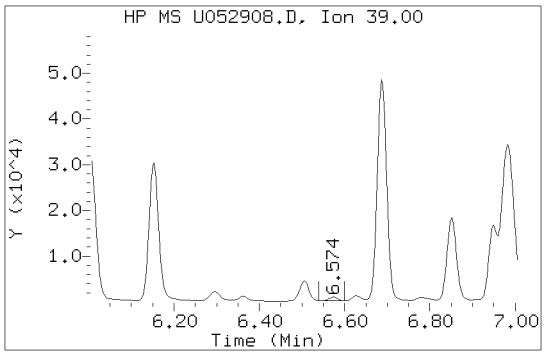
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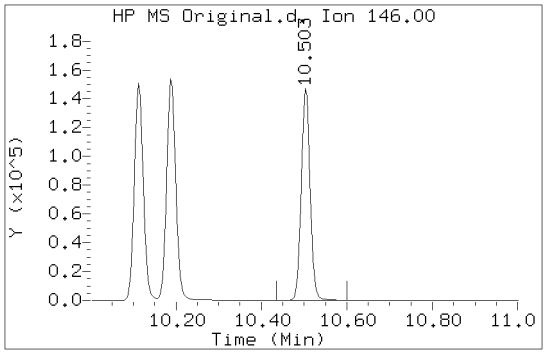


1,2-Dichlorobenzene (95-50-1)

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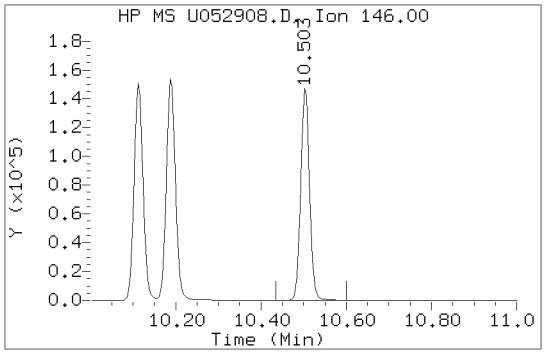
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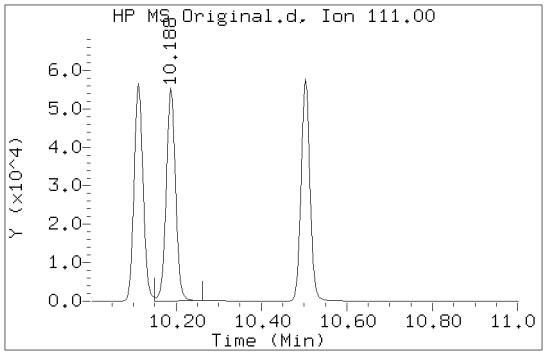
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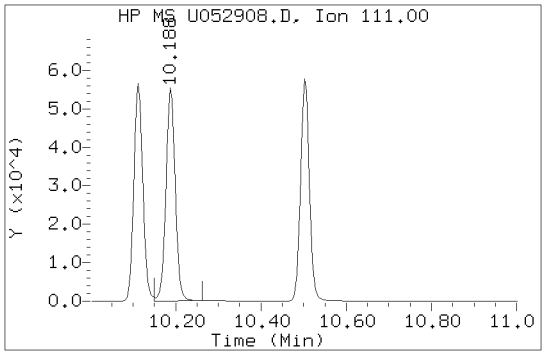
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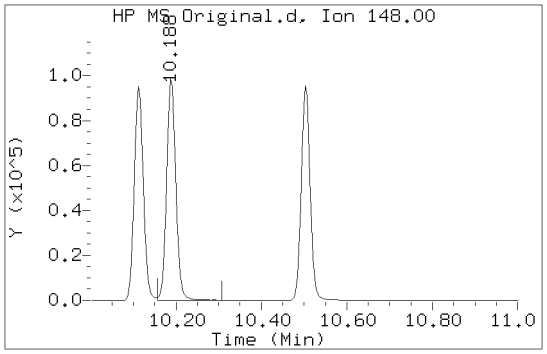
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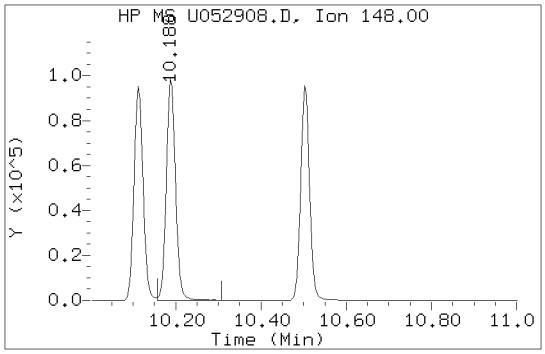
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AFTER

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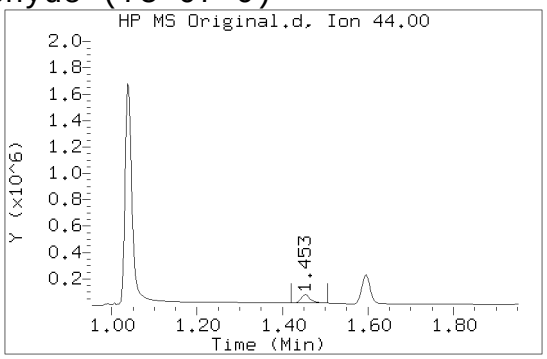


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LabSampID : VSTD050

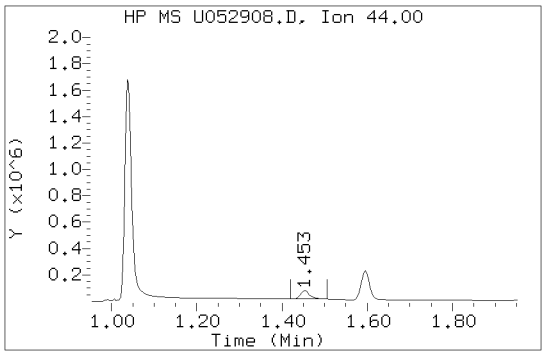
Acetaldehyde (75-07-0)

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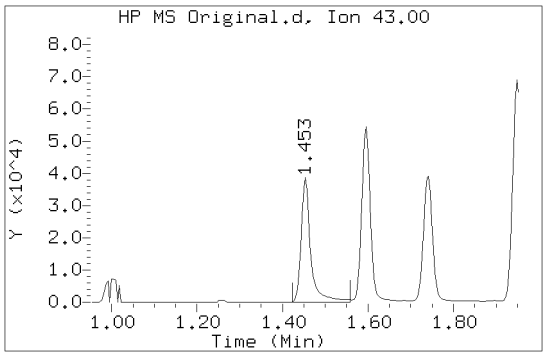
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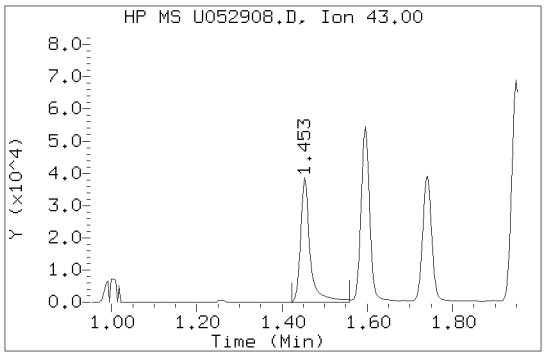
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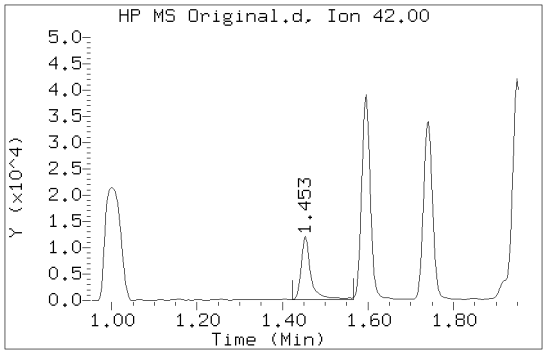
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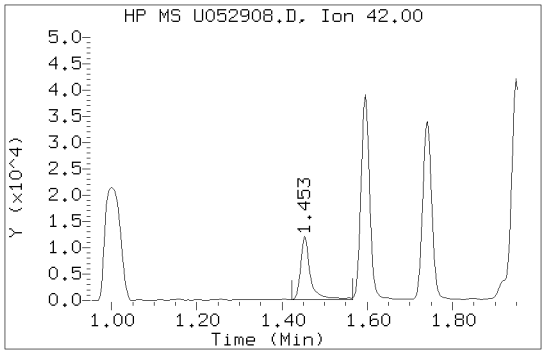
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BEFORE
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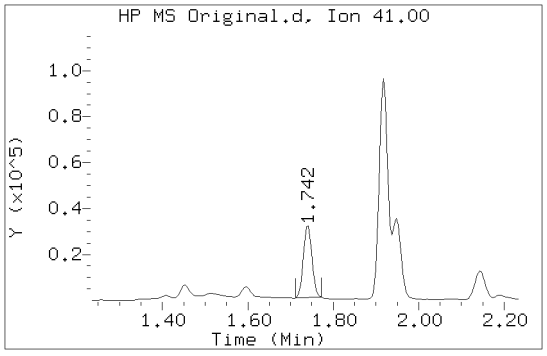
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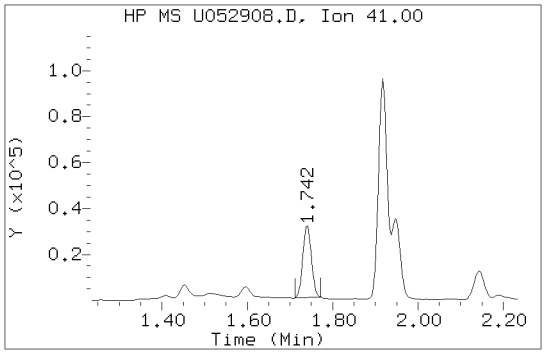
Isobutylene (115-11-7)

Reason Code:

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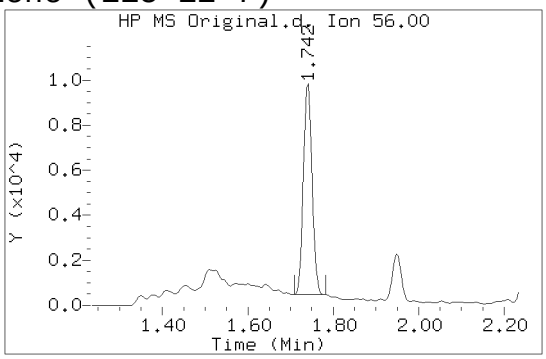
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Inj Date : 29-MAY-2024 12:48
InstruID : VOA9.i
LabSampID : VSTD050

Isobutylene (115-11-7)

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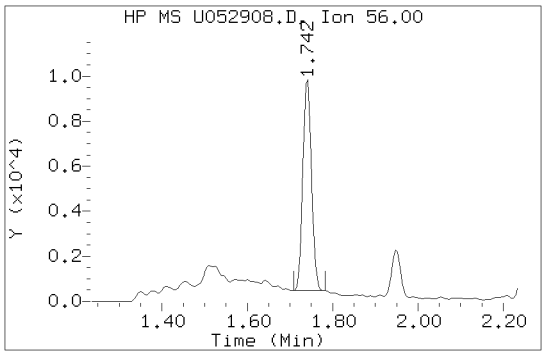
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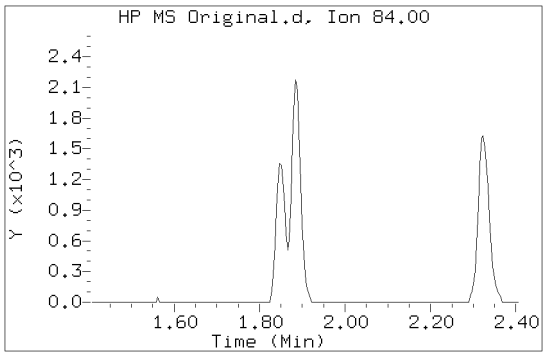
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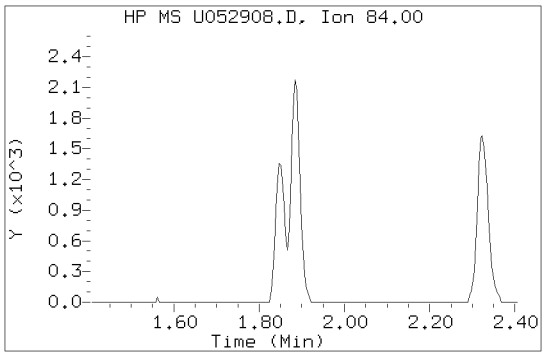
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AFTER

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07-Jun-2024
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Data File: \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052909.D Page 1
Report Date: 07-Jun-2024 10:54

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052909.D
Lab Smp Id: VSTD100 Client Smp ID: VSTD100
Inj Date : 29-MAY-2024 13:10
Operator : FT Inst ID: VOA9.i
Smp Info : VSTD100;VSTD100;1;8
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240529.b\8260C.m
Meth Date : 07-Jun-2024 10:14 r.patel Quant Type: ISTD
Cal Date : 29-MAY-2024 13:10 Cal File: U052909.D
Als bottle: 9 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14

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	4.815	4.811	(1.000)	276380	50.0000	
2	Dichlorodifluoromethane	85	1.168	1.156	(0.243)	110361	100.000	107.11(M)
3	Chloromethane	50	1.299	1.288	(0.270)	362966	100.000	99.19
4	Propionitrile	54	4.339	4.339	(0.901)	312519	1000.00	989.93
5	Vinyl Chloride	62	1.378	1.366	(0.286)	210426	100.000	100.82(M)
6	Bromomethane	94	1.610	1.595	(0.334)	88847	100.000	99.33
7	Chloroethane	64	1.696	1.681	(0.352)	148667	100.000	99.08(M)
8	Trichlorofluoromethane	101	1.899	1.884	(0.394)	263223	100.000	106.20
9	Acrolein	56	2.266	2.259	(0.471)	19417	200.000	193.33
10	Acetone	43	2.412	2.405	(0.501)	158455	200.000	193.90
11	1,1-Dichloroethene	96	2.334	2.322	(0.485)	179095	100.000	98.29
12	Isobutyl Alcohol	43	5.288	5.284	(1.098)	634410	2000.00	2020.54
13	Acetonitrile	39	2.675	2.663	(0.555)	225476	1000.00	1005.72
14	Allyl Chloride	41	2.675	2.667	(0.555)	552669	100.000	99.24
15	Iodomethane	142	2.469	2.457	(0.513)	73121	200.000	18.58
16	Acrylonitrile	53	3.068	3.061	(0.637)	154935	200.000	196.83
17	Methylene Chloride	84	2.795	2.783	(0.580)	213527	100.000	99.28
18	Methyl tert-butyl ether	73	3.083	3.076	(0.640)	517202	100.000	98.57
19	Carbon Disulfide	76	2.521	2.510	(0.524)	1023250	200.000	200.20
20	trans-1,2-Dichloroethene	96	3.057	3.050	(0.635)	193495	100.000	93.92
21	Vinyl Acetate	43	4.343	4.339	(0.902)	238681	200.000	195.96

22 1,1-Dichloroethane	63	3.514	3.507 (0.730)	356617	100.000	90.10
23 Chloroprene	53	3.608	3.601 (0.749)	298657	100.000	102.91

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052909.D Page 2
Report Date: 07-Jun-2024 10:54

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
24	2-Butanone	43	4.268	4.260	(0.886)	232236	200.000	188.02
25	Methacrylonitrile	41	4.497	4.489	(0.934)	134993	100.000	102.16(a)
26	2,2-Dichloropropane	77	4.182	4.174	(0.868)	268728	100.000	103.45
27	cis-1,2-Dichloroethene	96	4.197	4.189	(0.872)	235065	100.000	92.38
28	Chloroform	83	4.575	4.568	(0.950)	364237	100.000	92.17
29	Bromochloromethane	128	4.470	4.463	(0.928)	113406	100.000	96.57
$ 30	Dibromofluoromethane	113	4.748	4.744	(0.986)	177686	100.000	98.80
31	1,1,1-Trichloroethane	97	4.744	4.736	(0.985)	296179	100.000	107.02
32	1,1-Dichloropropene	75	4.920	4.916	(0.886)	284376	100.000	98.43
33	1,2-Dichloroethane	62	5.175	5.171	(0.932)	287619	100.000	96.33(M)
34	Carbon Tetrachloride	117	4.913	4.905	(0.885)	245615	100.000	108.52(M)
$ 35	1,2-Dichloroethane-d4	65	5.096	5.093	(1.058)	204529	100.000	95.89
* 36	1,4-Difluorobenzene	114	5.554	5.550	(1.000)	398880	50.0000	
37	Benzene	78	5.138	5.134	(0.925)	849770	100.000	90.44
38	Trichloroethene	130	5.786	5.786	(1.042)	223146	100.000	96.49
39	Bromodichloromethane	83	6.277	6.277	(1.130)	260676	100.000	103.16
40	Methyl Methacrylate	41	5.824	5.827	(1.209)	100414	100.000	98.92
41	2-Chloroethylvinyl ether	63	6.573	6.573	(1.184)	179421	200.000	197.96
42	1,2-Dichloropropane	63	6.007	6.007	(1.082)	224092	100.000	90.43(M)
43	2-Nitropropane	43	6.506	6.506	(1.351)	50838	100.000	98.30(M)
44	Dibromomethane	93	6.120	6.116	(1.102)	136786	100.000	95.06
45	4-Methyl-2-Pentanone	43	6.851	6.851	(0.837)	496657	200.000	198.79
46	cis-1,3-Dichloropropene	75	6.690	6.690	(1.205)	349144	100.000	99.32
* 47	Chlorobenzene-d5	117	8.185	8.185	(1.000)	359514	50.0000	
$ 48	Toluene-d8	98	6.922	6.918	(0.846)	670353	100.000	97.58
49	Ethyl Methacrylate	69	7.289	7.289	(1.312)	305423	100.000	98.99
50	Toluene	91	6.978	6.978	(0.853)	874010	100.000	89.55
51	trans-1,3-Dichloropropene	75	7.196	7.196	(1.296)	288024	100.000	99.31
52	2-Hexanone	43	7.589	7.589	(0.927)	326398	200.000	197.85(M)
53	1,1,2-Trichloroethane	83	7.353	7.353	(0.898)	172371	100.000	99.43
54	1,3-Dichloropropane	76	7.496	7.499	(0.916)	370135	100.000	93.11
55	Dibromochloromethane	129	7.690	7.690	(0.940)	219518	100.000	99.77
56	Tetrachloroethene	164	7.454	7.454	(0.911)	174914	100.000	102.62
57	1,2-Dibromoethane	107	7.784	7.784	(0.951)	207947	100.000	96.89
58	1-Chlorohexane	55	8.197	8.196	(1.476)	168663	100.000	97.76
59	Chlorobenzene	112	8.208	8.208	(1.003)	563893	100.000	91.00
60	1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	205411	100.000	103.88
61	Ethylbenzene	106	8.305	8.305	(1.015)	289334	100.000	98.23
62	m,p-Xylenes	106	8.406	8.406	(1.027)	741524	200.000	196.91
63	o-Xylene	106	8.744	8.744	(1.068)	356834	100.000	95.26
64	Styrene	104	8.759	8.759	(1.070)	601084	100.000	101.01
66	Bromoform	173	8.916	8.916	(1.089)	145408	100.000	99.61
67	Isopropylbenzene	105	9.059	9.059	(1.107)	884658	100.000	103.09
68	1,1,2,2-Tetrachloroethane	83	9.325	9.329	(0.917)	297282	100.000	92.22
$ 69	4-Bromofluorobenzene	95	9.190	9.190	(1.123)	241554	100.000	96.70
* 70	1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	193926	50.0000	
71	1,2,3-Trichloropropane	75	9.362	9.362	(0.921)	305205	100.000	100.96(M)
72	trans-1,4-Dichloro-2-butene	53	9.374	9.377	(1.145)	63452	100.000	103.29
73	n-Propylbenzene	91	9.411	9.411	(0.926)	1039029	100.000	99.42
74	Bromobenzene	156	9.317	9.317	(0.916)	244818	100.000	91.80
75	1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	721154	100.000	98.68
76	2-Chlorotoluene	91	9.482	9.482	(0.933)	613649	100.000	98.59

77	4-Chlorotoluene	91	9.572	9.576 (0.941)	714656	100.000	95.24
78	tert-Butylbenzene	119	9.835	9.835 (0.967)	612706	100.000	104.42(M)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
79	1,2,4-Trimethylbenzene	105	9.876	9.876	(0.971)	733468	100.000	99.28
81	sec-Butylbenzene	105	10.018	10.022	(0.985)	841166	100.000	105.63
82	p-Isopropyltoluene	119	10.146	10.146	(0.998)	736481	100.000	106.13
83	1,3-Dichlorobenzene	146	10.112	10.116	(0.994)	427248	100.000	94.87(M)
84	1,4-Dichlorobenzene	146	10.187	10.191	(1.002)	448818	100.000	89.99
86	Benzyl Chloride	91	10.311	10.311	(1.260)	315330	100.000	99.84
87	n-Butylbenzene	91	10.491	10.491	(1.032)	641821	100.000	98.72
88	1,2-Dichlorobenzene	146	10.502	10.502	(1.033)	425491	100.000	91.19(M)
89	1,2-Dibromo-3-Chloropropane	155	11.165	11.165	(1.098)	43093	100.000	98.97
90	1,2,4-Trichlorobenzene	180	11.855	11.855	(1.166)	295330	100.000	100.45
91	Hexachlorobutadiene	225	11.998	11.998	(1.180)	114648	100.000	97.19
92	Naphthalene	128	12.065	12.065	(1.187)	733059	100.000	99.54
93	1,2,3-Trichlorobenzene	180	12.268	12.268	(1.206)	270845	100.000	98.89
146	Methyl acetate	43	2.716	2.708	(0.564)	212417	100.000	96.87
138	Freon TF	101	2.334	2.326	(0.485)	158195	100.000	98.85
141	Cyclohexane	56	4.781	4.778	(0.993)	266868	100.000	98.62
142	Tetrahydrofuran	42	4.545	4.542	(0.944)	81311	200.000	198.94
147	Methylcyclohexane	55	5.947	5.944	(1.071)	512252	100.000	99.13
135	1,4-Dioxane	88	6.168	6.168	(1.281)	56513	2000.00	1942.84
132	n-Butanol	56	5.824	5.827	(1.209)	149062	2000.00	2002.08
136	n-Hexane	57	3.342	3.331	(0.694)	189432	100.000	98.44
139	Diethyl ether	59	2.150	2.139	(0.447)	146534	100.000	98.00
148	Tert-butyl alcohol	59	2.978	2.975	(0.619)	398358	2000.00	1985.11
149	Isopropyl alcohol	45	2.573	2.570	(0.534)	314658	2000.00	1991.14
152	Amyl alcohol	42	7.398	7.398	(0.904)	167778	2000.00	1981.15
156	Diisopropyl ether	45	3.623	3.619	(0.752)	651361	100.000	92.30
162	Butyl acrylate	55	8.729	8.733	(1.066)	408695	100.000	98.59
187	n-Amyl acetate	43	8.928	8.931	(1.091)	388877	100.000	99.61
164	Dicyclopentadiene	66	10.198	10.198	(1.003)	944339	100.000	94.94
166	1,2,3-Trimethylbenzene	105	10.232	10.232	(1.006)	651618	100.000	95.69
167	Ethanol	45	2.090	2.086	(0.434)	59044	2000.00	1990.50
172	tert-Butyl formate	59	5.246	5.250	(1.090)	431666	200.000	197.72
173	3,3-Dimethyl-1-butanol	57	7.780	7.784	(0.951)	478667	2000.00	1912.89
174	tert-Amyl methyl ether	73	5.288	5.284	(1.098)	628654	100.000	97.21
175	tert-Butyl ethyl ether	59	4.054	4.047	(0.842)	585044	100.000	92.55
176	tert-Amyl alcohol	59	5.246	5.250	(1.090)	431666	2000.00	1954.50
151	4-Methyl-2-pentanol	45	7.218	7.222	(1.300)	1368113	2000.00	1964.30
140	1,3-Butadiene	54	1.408	1.396	(0.292)	102671	100.000	100.40
182	Epichlorohydrin	57	6.630	6.630	(1.194)	61001	400.000	399.90
M 94	1,2-Dichloroethylene (total)	96				428560	200.000	(a)
145	alpha-Methylstyrene	118	9.752	9.752	(0.959)	307618	100.000	99.23
130	Ethyl Acetate	43	4.343	4.339	(0.902)	238681	100.000	93.76
131	Methyl Acrylate	55	4.373	4.365	(0.908)	259299	100.000	98.33
189	n-Butyl acetate	43	7.702	7.702	(0.941)	380886	100.000	100.91
134	Cyclohexanone	55	9.152	9.152	(0.900)	221511	2000.00	1965.66
185	Isoprene	39	2.157	2.146	(0.448)	45875	100.000	99.89
188	Isopropyl acetate	43	5.288	5.284	(0.952)	630116	100.000	95.20
150	Allyl alcohol	57	3.342	3.331	(0.694)	189432	2000.00	1968.84
194	Acetaldehyde	44	1.464	1.453	(0.304)	187809	400.000	394.84(M)
195	Methyl Amyl Ketone	43	8.868	8.868	(1.083)	438157	100.000	100.04
200	Dimethyl Disulfide	94	6.746	6.746	(0.824)	196799	100.000	95.46
202	Isobutylene	41	1.749	1.734	(0.363)	91262	100.000	102.56(M)

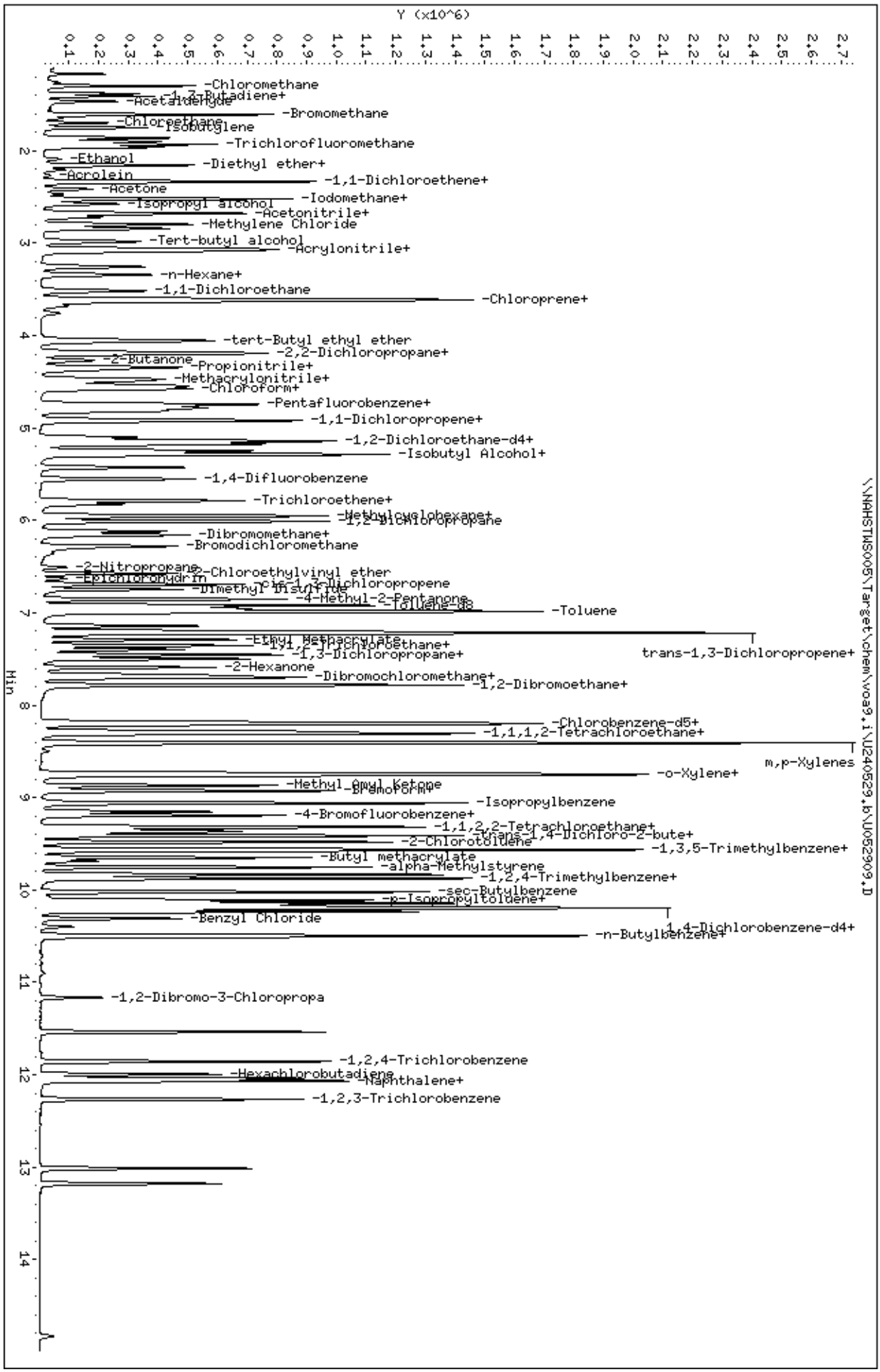
133 Ethyl Acrylate	55	5.947	5.944 (1.235)	512252	100.000	99.54	
163 Butyl methacrylate	41	9.647	9.647 (0.949)	223010	100.000	99.38	

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052909.D Page 4
Report Date: 07-Jun-2024 10:54

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
159 Propylene oxide	43	2.202	2.191	(0.457)	32032	200.000	197.49
203 2-Ethylhexyl Acrylate	55	12.039	12.039	(1.184)	271079	100.000	101.37

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: VSTD100
Sample Info: VSTD100;VSTD100;1;8
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9.i
Operator: FT
Column diameter: 0.18

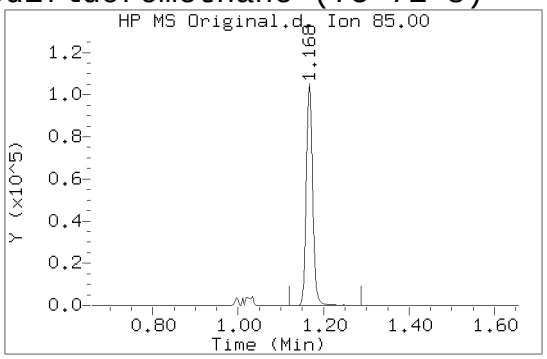
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InstruID : VOA9.i
LabSampID : VSTD100

Dichlorodifluoromethane (75-71-8)

Reason Code:

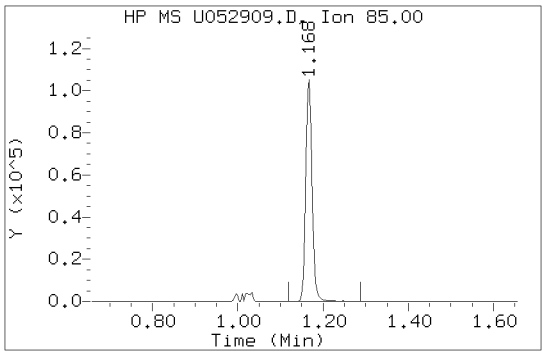
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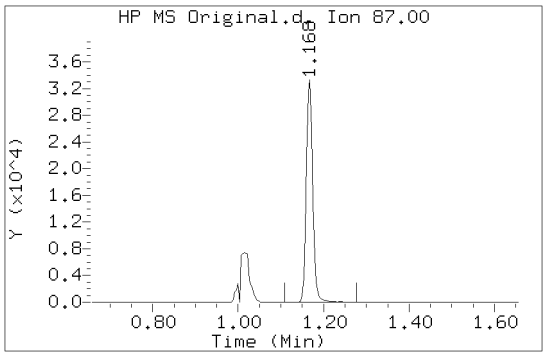
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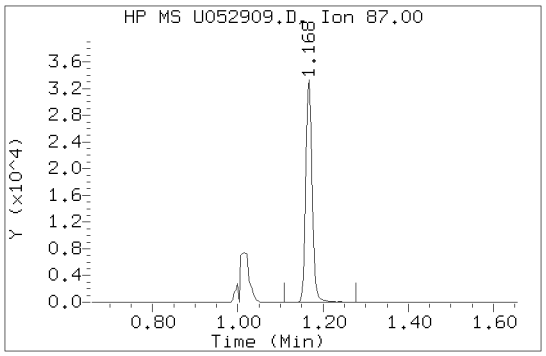
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AFTER

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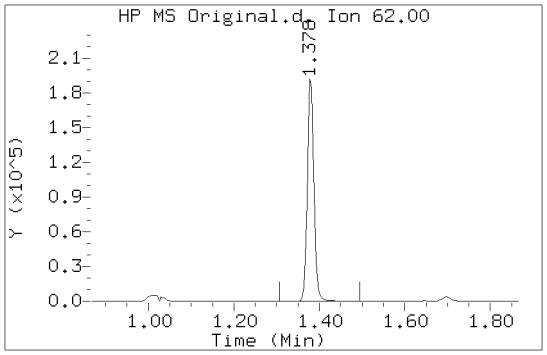


Vinyl Chloride (75-01-4)

Reason Code:

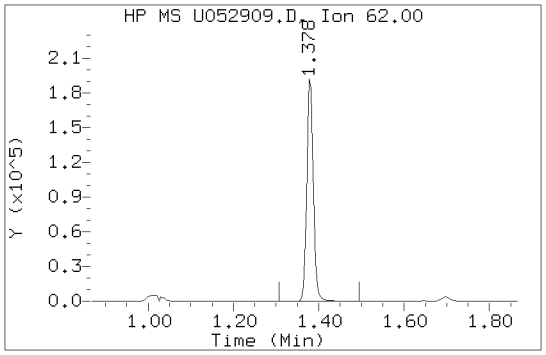
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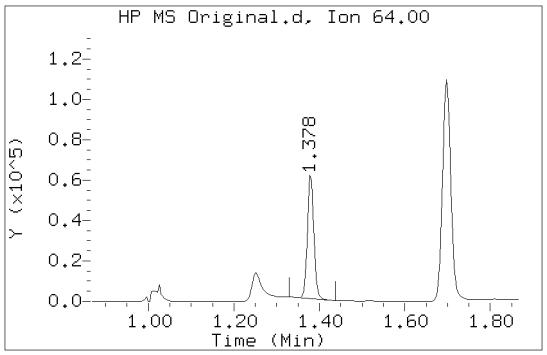
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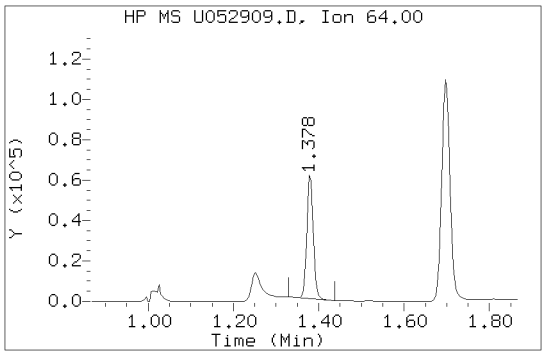
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AFTER

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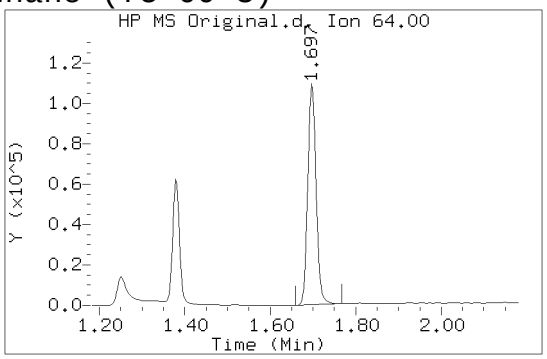
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InstruID : VOA9.i
LabSampID : VSTD100

Chloroethane (75-00-3)

Reason Code:

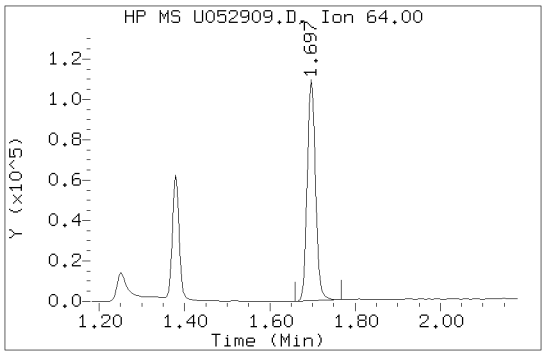
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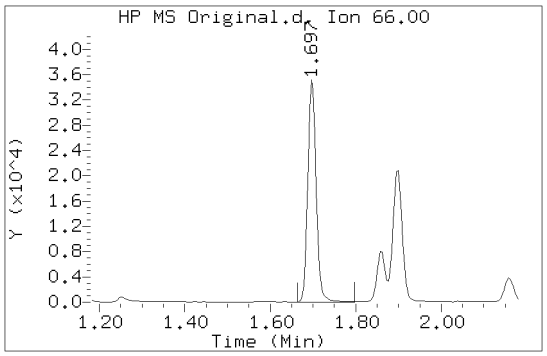
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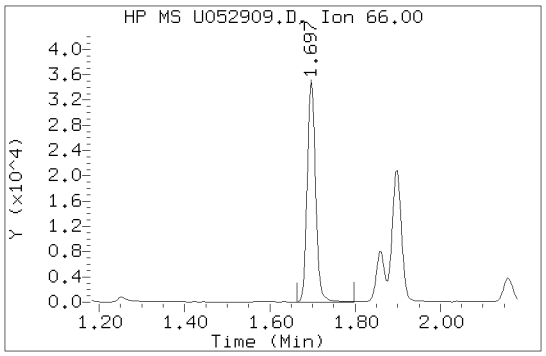
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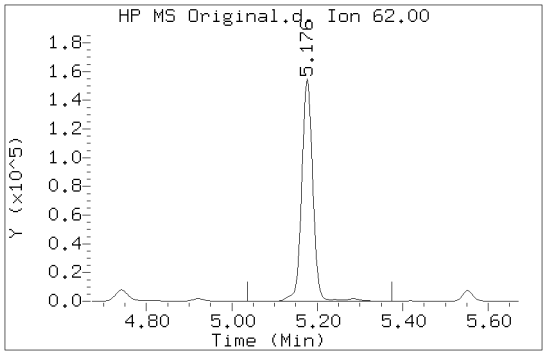


1,2-Dichloroethane (107-06-2)

Reason Code:

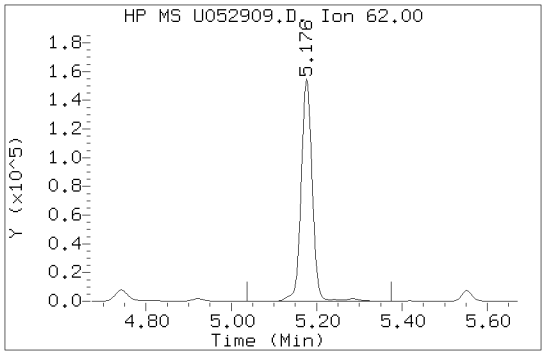
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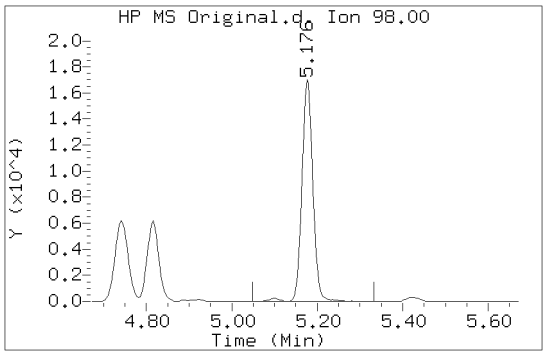
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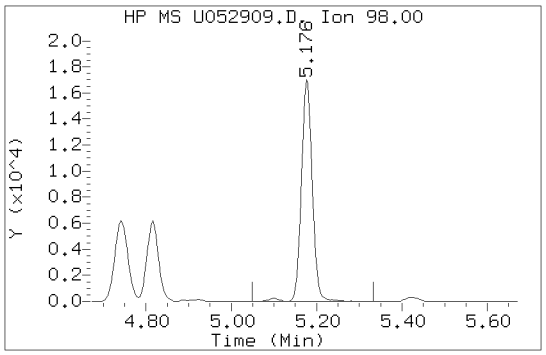
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AFTER

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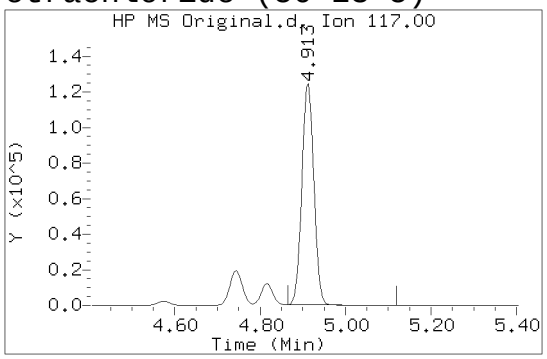


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LabSampID : VSTD100

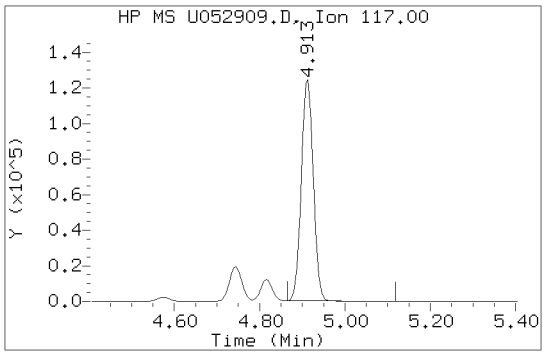
Carbon Tetrachloride (56-23-5)

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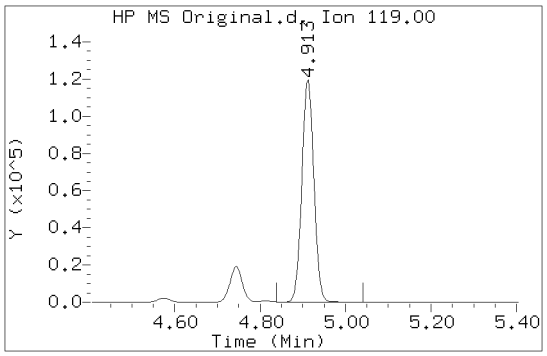
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06-Jun-2024
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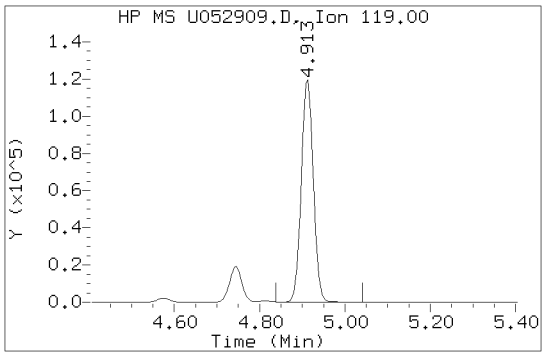
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BEFORE
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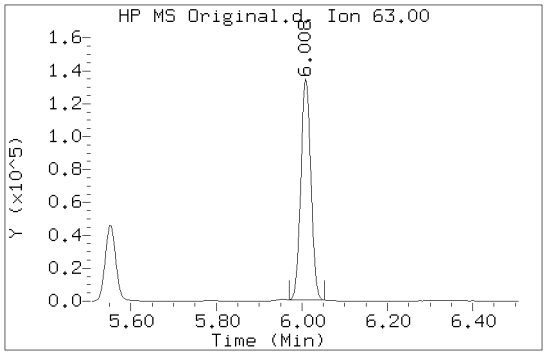
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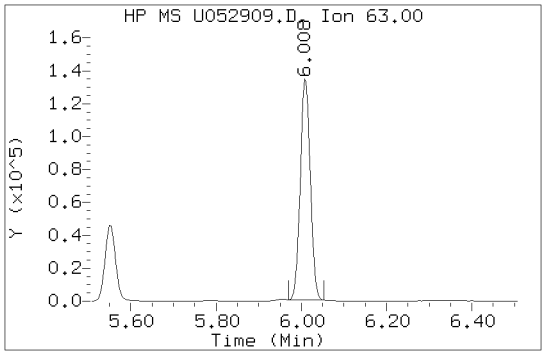
1,2-Dichloropropane (78-87-5)

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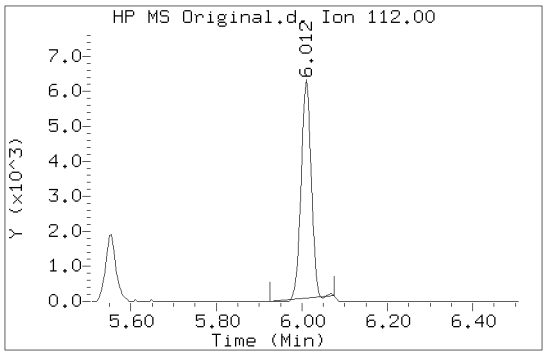
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17:20
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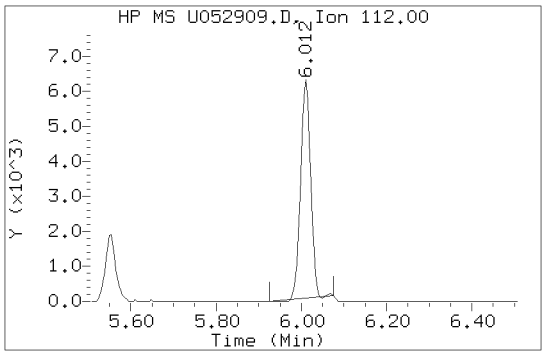
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BEFORE
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AFTER
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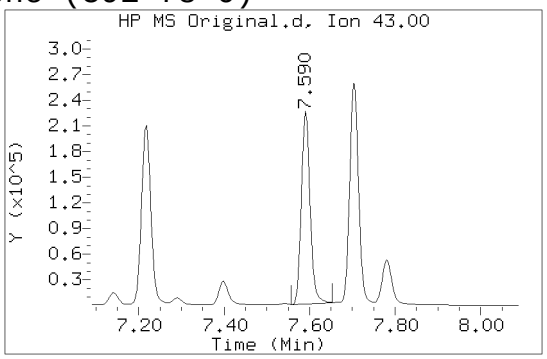


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LabSampID : VSTD100

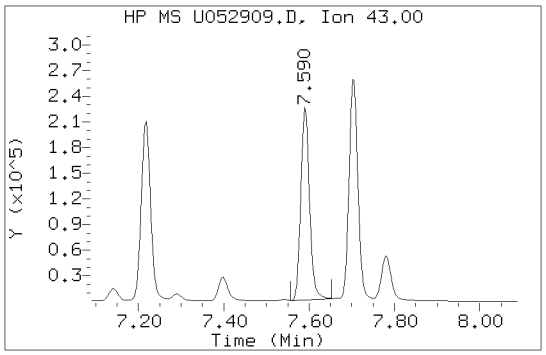
2-Hexanone (591-78-6)

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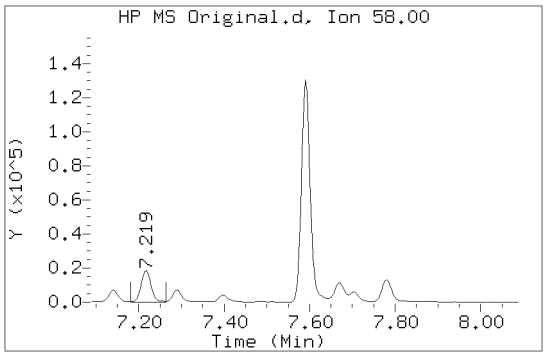
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zaid



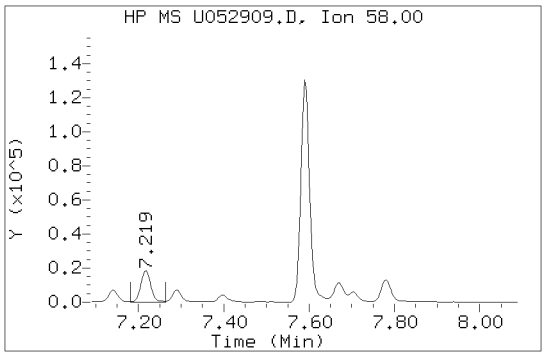
AFTER
MASS
43
AREA
326398
HEIGHT
225146
07-Jun-2024
10:36



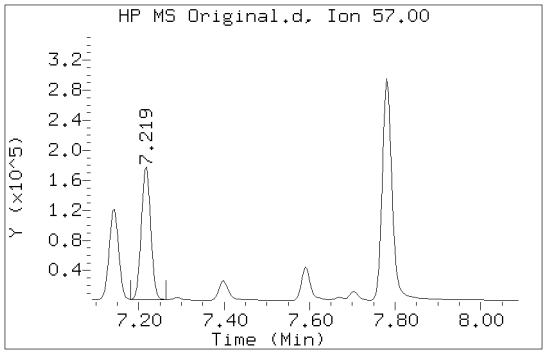
BEFORE
MASS
58
AREA
30330
HEIGHT
18390
06-Jun-2024
17:20
s
zaid



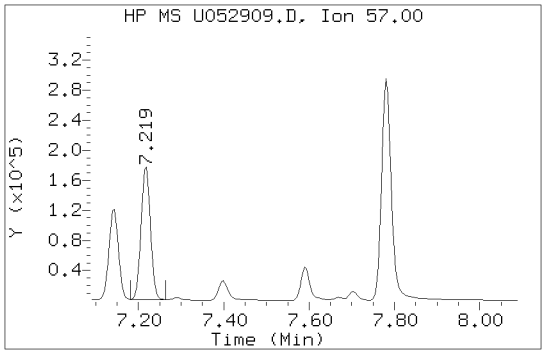
AFTER
MASS
58
AREA
30330
HEIGHT
18390
07-Jun-2024
10:36



BEFORE
MASS
57
AREA
269940
HEIGHT
176071
06-Jun-2024
17:20
s
zaid



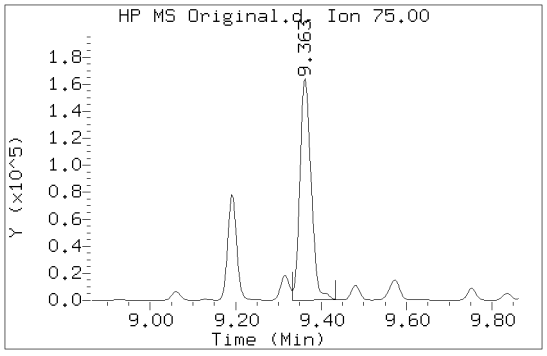
AFTER
MASS
57
AREA
269940
HEIGHT
176071
07-Jun-2024
10:36



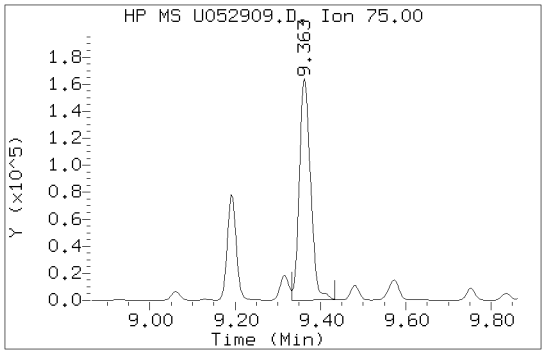
1,2,3-Trichloropropane (96-18-4)

Reason Code:

BEFORE
MASS
75
AREA
305205
HEIGHT
163758
06-Jun-2024
17:20
s
zaid



AFTER
MASS
75
AREA
305205
HEIGHT
163758
07-Jun-2024
10:36



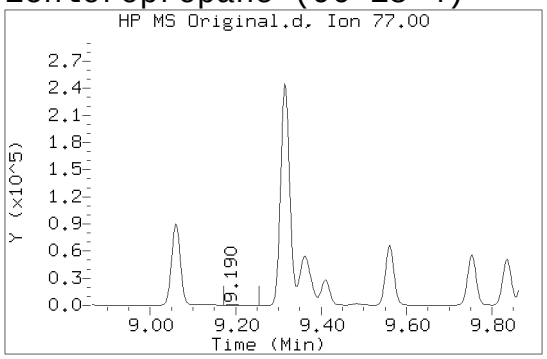
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Inj Date : 29-MAY-2024 13:10
InstruID : VOA9.i
LabSampID : VSTD100

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

Reason Code:

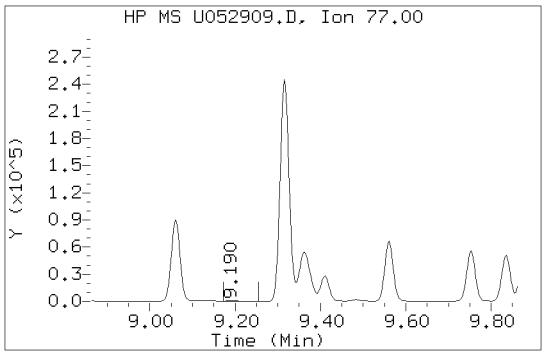
BEFORE

MASS
77
AREA
1513
HEIGHT
932
06-Jun-2024
17:20
s
zaid



AFTER

MASS
77
AREA
1513
HEIGHT
932
07-Jun-2024
10:36

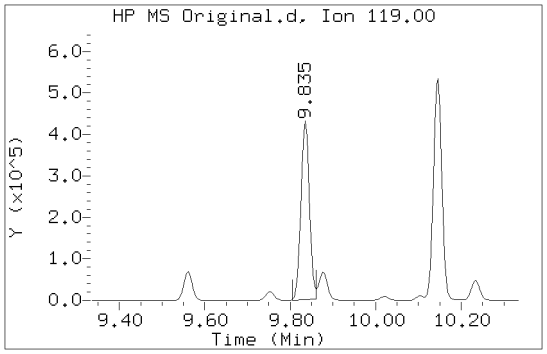


tert-Butylbenzene (98-06-6)

Reason Code:

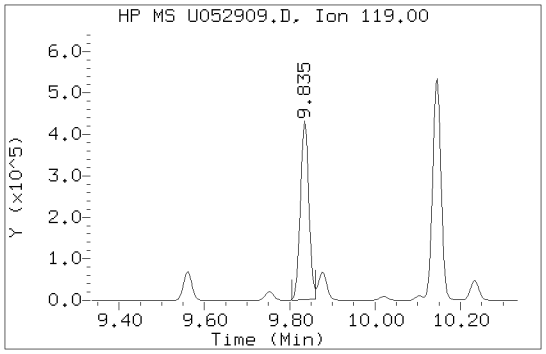
BEFORE

MASS
119
AREA
612706
HEIGHT
431178
06-Jun-2024
17:20
s
zaid



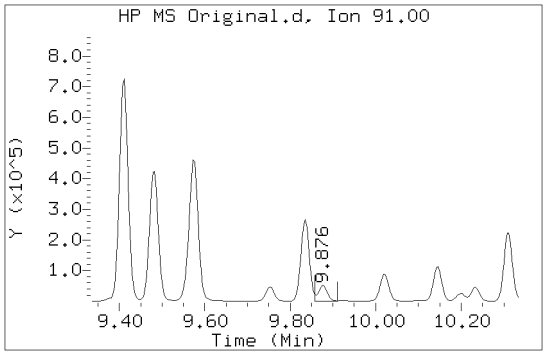
AFTER

MASS
119
AREA
612706
HEIGHT
431178
07-Jun-2024
10:36



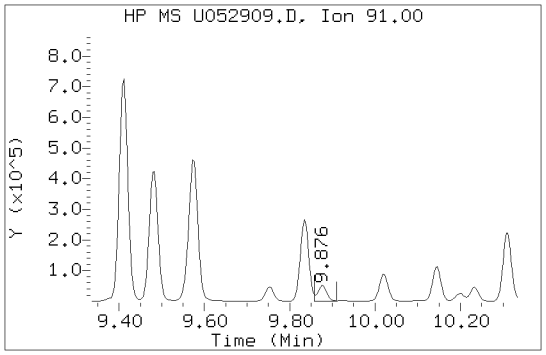
BEFORE

MASS
91
AREA
75838
HEIGHT
50917
06-Jun-2024
17:20
s
zaid



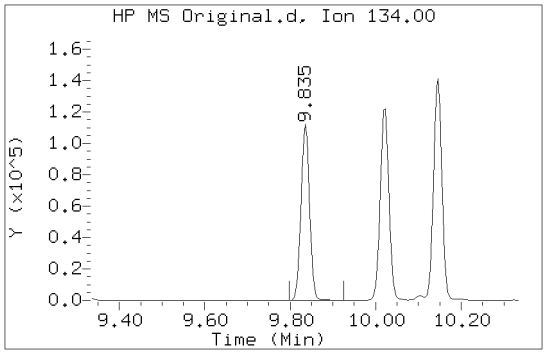
AFTER

MASS
91
AREA
75838
HEIGHT
50917
07-Jun-2024
10:36



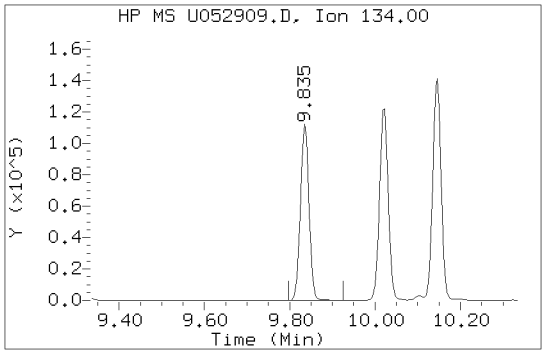
BEFORE

MASS
134
AREA
159747
HEIGHT
112160
06-Jun-2024
17:20
s
zaid



AFTER

MASS
134
AREA
159747
HEIGHT
112160
07-Jun-2024
10:36



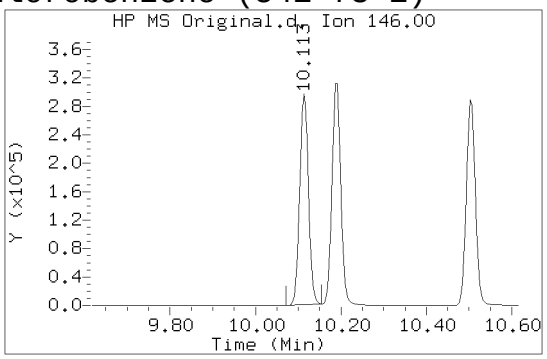
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052909.D
Inj Date : 29-MAY-2024 13:10
InstruID : VOA9.i
LabSampID : VSTD100

1,3-Dichlorobenzene (541-73-1)

Reason Code:

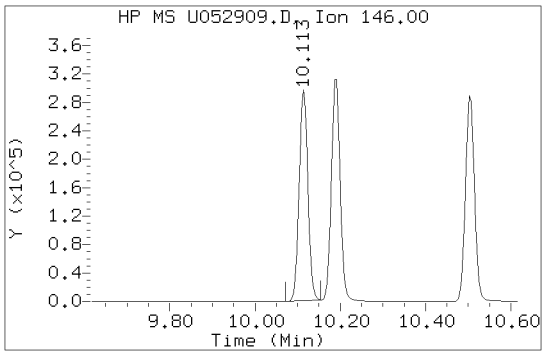
BEFORE

MASS
146
AREA
427248
HEIGHT
297062
06-Jun-2024
17:20
s
zaid



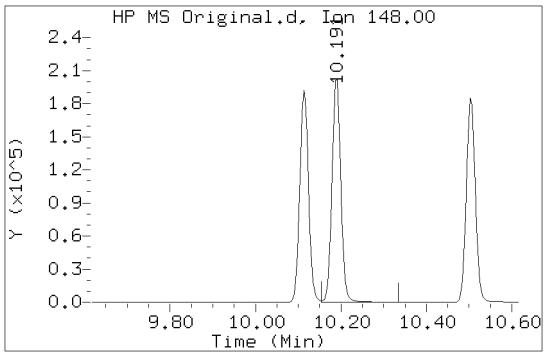
AFTER

MASS
146
AREA
427248
HEIGHT
297062
07-Jun-2024
10:36



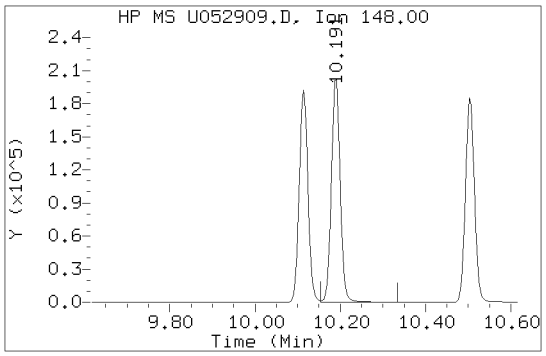
BEFORE

MASS
148
AREA
290011
HEIGHT
201564
06-Jun-2024
17:20
s
zaid



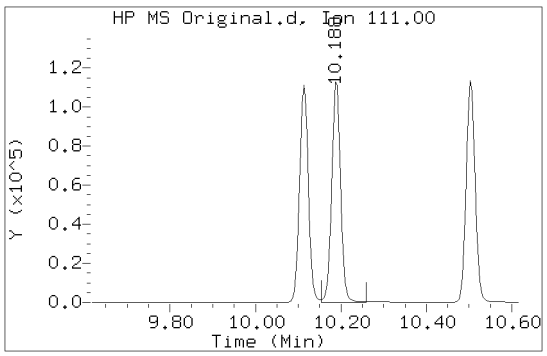
AFTER

MASS
148
AREA
290011
HEIGHT
201564
07-Jun-2024
10:36



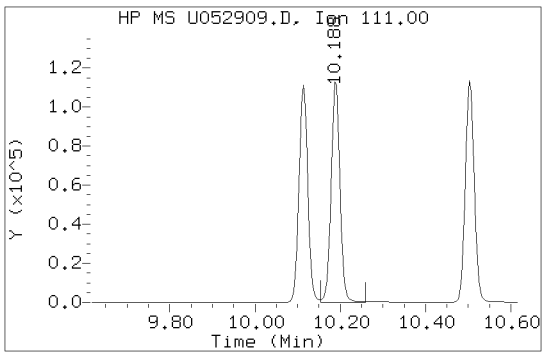
BEFORE

MASS
111
AREA
161994
HEIGHT
113002
06-Jun-2024
17:20
s
zaid



AFTER

MASS
111
AREA
161994
HEIGHT
113002
07-Jun-2024
10:36

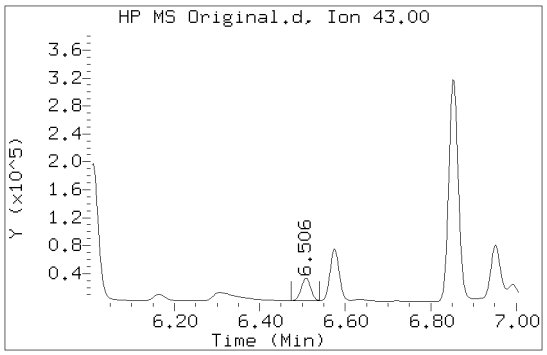


2-Nitropropane (79-46-9)

Reason Code:

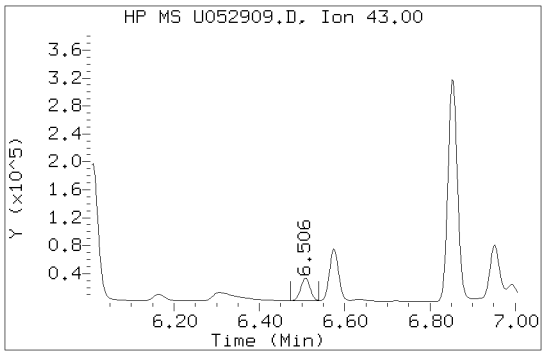
BEFORE

MASS
43
AREA
50838
HEIGHT
32442
06-Jun-2024
17:20
s
zaid



AFTER

MASS
43
AREA
50838
HEIGHT
32442
07-Jun-2024
10:36



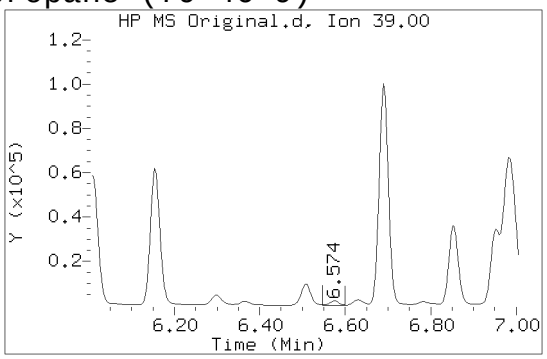
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Inj Date : 29-MAY-2024 13:10
InstruID : VOA9.i
LabSampID : VSTD100

2-Nitropropane (79-46-9)

Reason Code:

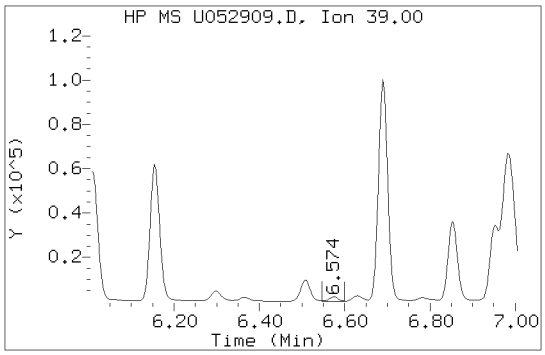
BEFORE

MASS
39
AREA
2760
HEIGHT
1997
06-Jun-2024
17:20
s
zaid



AFTER

MASS
39
AREA
2760
HEIGHT
1997
07-Jun-2024
10:36

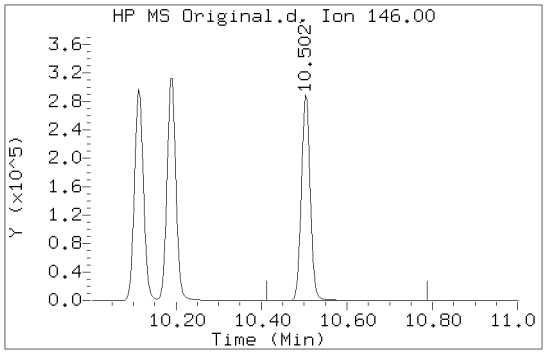


1,2-Dichlorobenzene (95-50-1)

Reason Code:

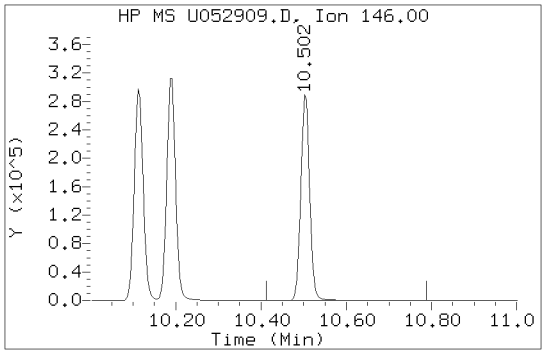
BEFORE

MASS
146
AREA
425491
HEIGHT
289830
06-Jun-2024
17:20
s
zaid



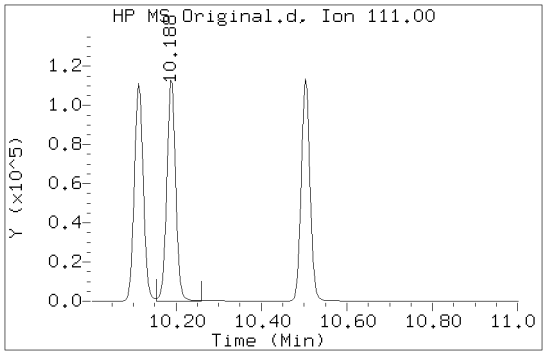
AFTER

MASS
146
AREA
425491
HEIGHT
289830
07-Jun-2024
10:36



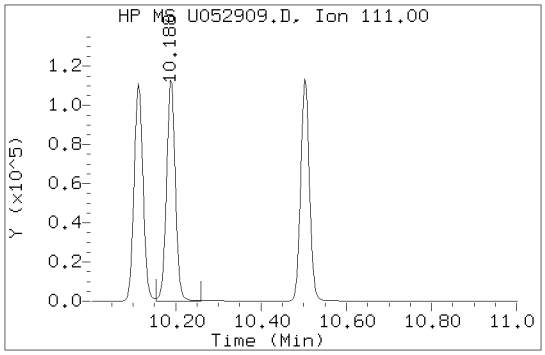
BEFORE

MASS
111
AREA
161994
HEIGHT
113002
06-Jun-2024
17:20
s
zaid



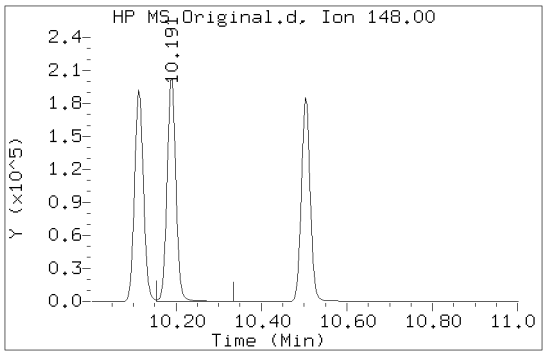
AFTER

MASS
111
AREA
161994
HEIGHT
113002
07-Jun-2024
10:36



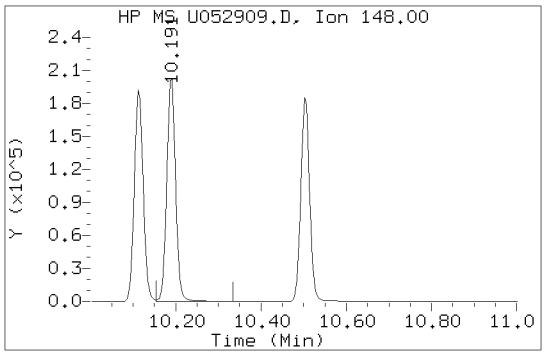
BEFORE

MASS
148
AREA
290011
HEIGHT
201564
06-Jun-2024
17:20
s
zaid



AFTER

MASS
148
AREA
290011
HEIGHT
201564
07-Jun-2024
10:36

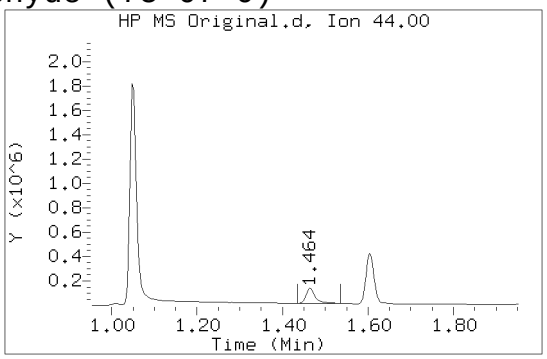


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Inj Date : 29-MAY-2024 13:10
InstruID : VOA9.i
LabSampID : VSTD100

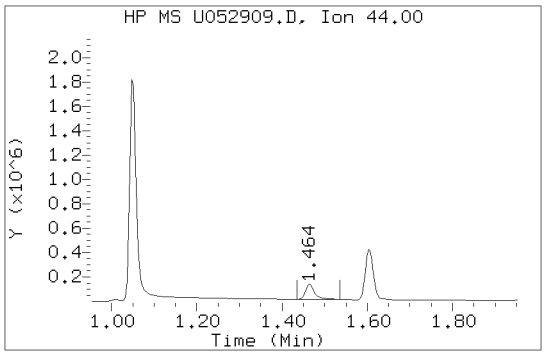
Acetaldehyde (75-07-0)

Reason Code:

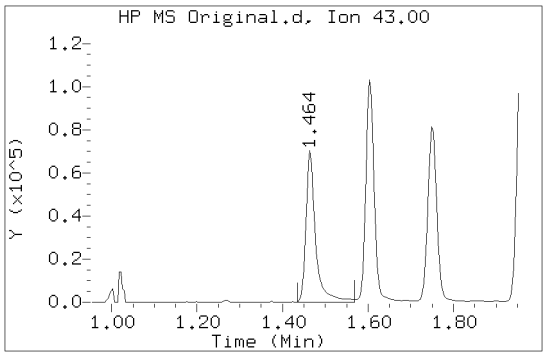
BEFORE
MASS
44
AREA
187809
HEIGHT
126730
06-Jun-2024
17:20
s
zaid



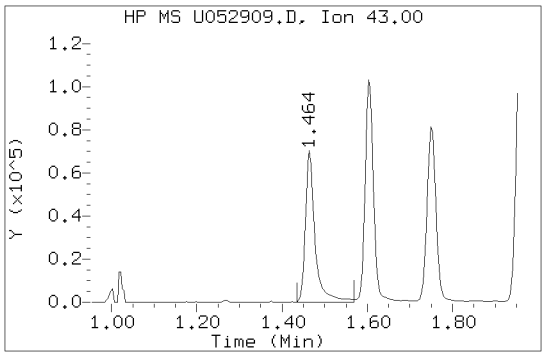
AFTER
MASS
44
AREA
187809
HEIGHT
126730
07-Jun-2024
10:36



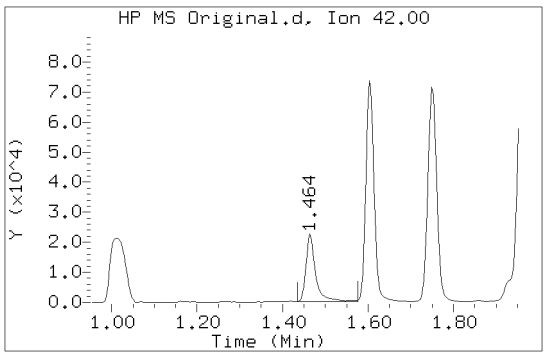
BEFORE
MASS
43
AREA
113363
HEIGHT
70392
06-Jun-2024
17:20
s
zaid



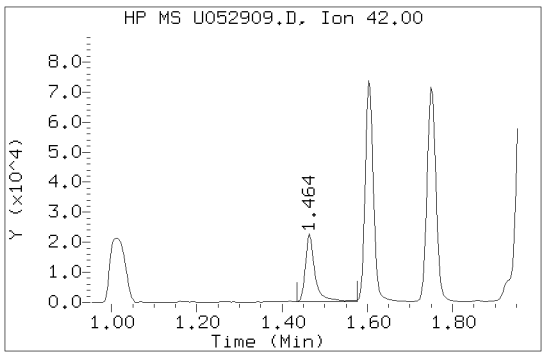
AFTER
MASS
43
AREA
113363
HEIGHT
70392
07-Jun-2024
10:36



BEFORE
MASS
42
AREA
36254
HEIGHT
22604
06-Jun-2024
17:20
s
zaid



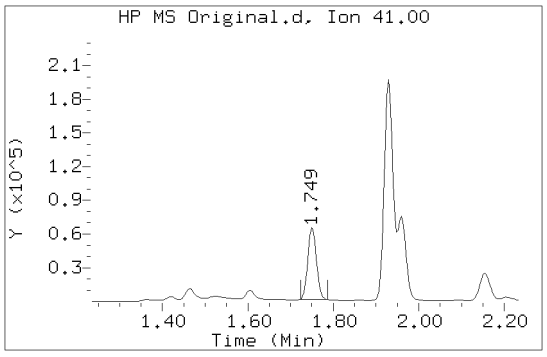
AFTER
MASS
42
AREA
36254
HEIGHT
22604
07-Jun-2024
10:36



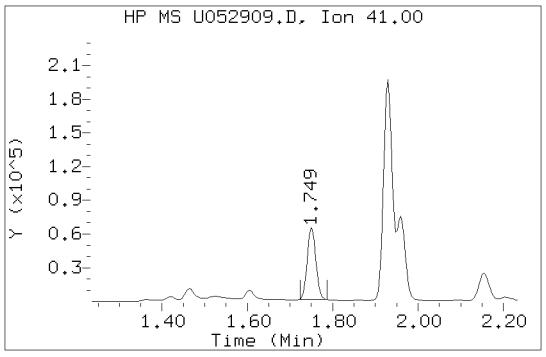
Isobutylene (115-11-7)

Reason Code:

BEFORE
MASS
41
AREA
91262
HEIGHT
63977
06-Jun-2024
17:20
s
zaid



AFTER
MASS
41
AREA
91262
HEIGHT
63977
07-Jun-2024
10:36



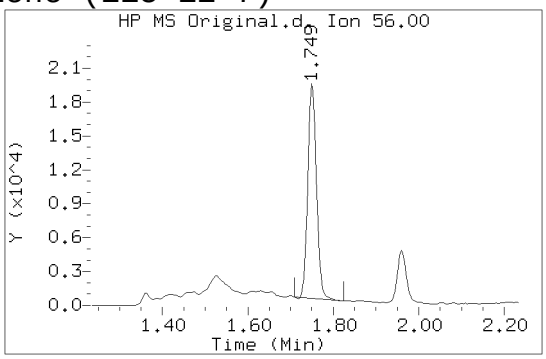
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052909.D
Inj Date : 29-MAY-2024 13:10
InstruID : VOA9.i
LabSampID : VSTD100

Isobutylene (115-11-7)

Reason Code:

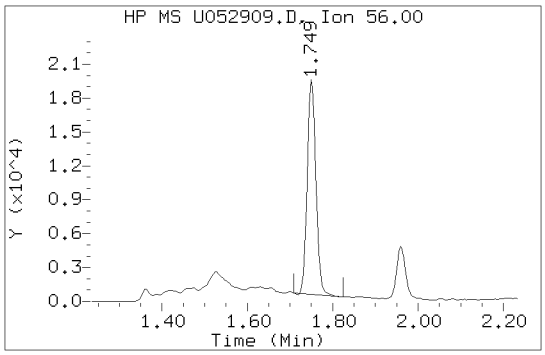
BEFORE

MASS
56
AREA
27210
HEIGHT
18990
06-Jun-2024
17:20
s
zaid



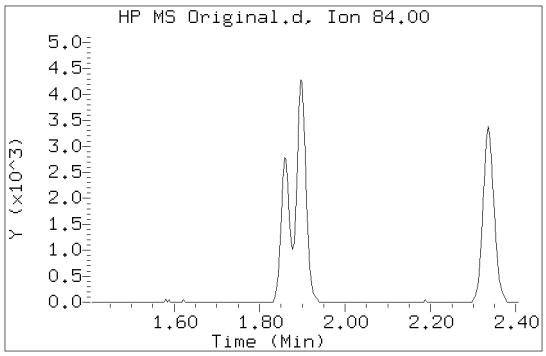
AFTER

MASS
56
AREA
27210
HEIGHT
18990
07-Jun-2024
10:36



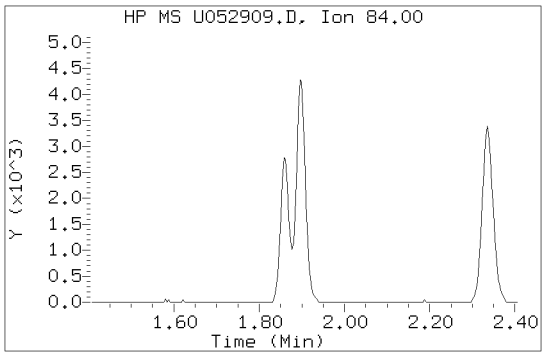
BEFORE

MASS
84
AREA
0
HEIGHT
0
06-Jun-2024
17:20
s
zaid



AFTER

MASS
84
AREA
0
HEIGHT
0
07-Jun-2024
10:36



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052910.D Page 1
Report Date: 07-Jun-2024 10:54

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052910.D
Lab Smp Id: VSTD150 Client Smp ID: VSTD150
Inj Date : 29-MAY-2024 13:31
Operator : FT Inst ID: VOA9.i
Smp Info : VSTD150;VSTD150;1;9
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240529.b\8260C.m
Meth Date : 07-Jun-2024 10:14 r.patel Quant Type: ISTD
Cal Date : 29-MAY-2024 13:31 Cal File: U052910.D
Als bottle: 10 Calibration Sample, Level: 9
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14

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	4.812	4.811	(1.000)	280064	50.0000	
2	Dichlorodifluoromethane	85	1.160	1.156	(0.241)	177050	150.000	169.57(M)
3	Chloromethane	50	1.292	1.288	(0.269)	564726	150.000	152.69
4	Propionitrile	54	4.339	4.339	(0.902)	508916	1500.00	1502.94
5	Vinyl Chloride	62	1.374	1.366	(0.286)	338607	150.000	160.10(M)
6	Bromomethane	94	1.603	1.595	(0.333)	134828	150.000	149.76
7	Chloroethane	64	1.689	1.681	(0.351)	238484	150.000	151.49(M)
8	Trichlorofluoromethane	101	1.891	1.884	(0.393)	421897	150.000	167.98
9	Acrolein	56	2.262	2.259	(0.470)	33211	300.000	305.58
10	Acetone	43	2.409	2.405	(0.501)	258229	300.000	316.05
11	1,1-Dichloroethene	96	2.326	2.322	(0.484)	288038	150.000	156.01
12	Isobutyl Alcohol	43	5.284	5.284	(1.098)	1019170	3000.00	2949.71
13	Acetonitrile	39	2.667	2.663	(0.554)	357657	1500.00	1574.32
14	Allyl Chloride	41	2.671	2.667	(0.555)	885047	150.000	151.66
16	Acrylonitrile	53	3.065	3.061	(0.637)	251557	300.000	304.15
17	Methylene Chloride	84	2.787	2.783	(0.579)	334515	150.000	150.72
18	Methyl tert-butyl ether	73	3.080	3.076	(0.640)	834255	150.000	151.71
19	Carbon Disulfide	76	2.514	2.510	(0.522)	1648106	300.000	318.22
20	trans-1,2-Dichloroethene	96	3.053	3.050	(0.635)	306881	150.000	146.99
21	Vinyl Acetate	43	4.339	4.339	(0.902)	375770	300.000	304.46
22	1,1-Dichloroethane	63	3.511	3.507	(0.730)	565818	150.000	141.08

23 Chloroprene	53	3.604	3.601 (0.749)	479332	150.000	162.99	
24 2-Butanone	43	4.264	4.260 (0.886)	372537	300.000	297.65	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	25 Methacrylonitrile	41	4.493	4.489	(0.934)	208472	150.000	148.26(a)
	26 2,2-Dichloropropane	77	4.178	4.174	(0.868)	437898	150.000	166.35
	27 cis-1,2-Dichloroethene	96	4.193	4.189	(0.871)	368949	150.000	143.09
	28 Chloroform	83	4.572	4.568	(0.950)	573965	150.000	143.33
	29 Bromochloromethane	128	4.467	4.463	(0.928)	178579	150.000	149.92
$	30 Dibromofluoromethane	113	4.744	4.744	(0.986)	285257	150.000	151.49
	31 1,1,1-Trichloroethane	97	4.740	4.736	(0.985)	483999	150.000	172.59
	32 1,1-Dichloropropene	75	4.920	4.916	(0.887)	461502	150.000	158.72
	33 1,2-Dichloroethane	62	5.175	5.171	(0.932)	449209	150.000	149.17(M)
	34 Carbon Tetrachloride	117	4.909	4.905	(0.885)	409418	150.000	179.75(M)
$	35 1,2-Dichloroethane-d4	65	5.096	5.093	(1.059)	321896	150.000	148.69
*	36 1,4-Difluorobenzene	114	5.550	5.550	(1.000)	401441	50.0000	
	37 Benzene	78	5.138	5.134	(0.926)	1349201	150.000	142.68
	38 Trichloroethene	130	5.786	5.786	(1.043)	358370	150.000	153.98
	39 Bromodichloromethane	83	6.277	6.277	(1.131)	421785	150.000	165.85
	40 Methyl Methacrylate	41	5.824	5.827	(1.210)	167428	150.000	153.42
	41 2-Chloroethylvinyl ether	63	6.573	6.573	(1.184)	309450	300.000	306.63
	42 1,2-Dichloropropane	63	6.007	6.007	(1.082)	358971	150.000	143.94(M)
	43 2-Nitropropane	43	6.506	6.506	(1.352)	89884	150.000	155.54(M)
	44 Dibromomethane	93	6.116	6.116	(1.102)	214110	150.000	147.84
	45 4-Methyl-2-Pentanone	43	6.851	6.851	(0.837)	794722	300.000	301.99
	46 cis-1,3-Dichloropropene	75	6.690	6.690	(1.205)	565316	150.000	151.74
*	47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	366418	50.0000	
$	48 Toluene-d8	98	6.918	6.918	(0.845)	1052895	150.000	150.27
	49 Ethyl Methacrylate	69	7.289	7.289	(1.313)	504931	150.000	162.60
	50 Toluene	91	6.978	6.978	(0.853)	1394273	150.000	140.17
	51 trans-1,3-Dichloropropene	75	7.196	7.196	(1.296)	471401	150.000	152.23
	52 2-Hexanone	43	7.589	7.589	(0.927)	541778	300.000	306.99(M)
	53 1,1,2-Trichloroethane	83	7.353	7.353	(0.898)	269298	150.000	150.24
	54 1,3-Dichloropropane	76	7.496	7.499	(0.916)	580772	150.000	143.34
	55 Dibromochloromethane	129	7.691	7.690	(0.940)	353909	150.000	151.40
	56 Tetrachloroethene	164	7.454	7.454	(0.911)	283735	150.000	163.33
	57 1,2-Dibromoethane	107	7.784	7.784	(0.951)	333089	150.000	152.27
	58 1-Chlorohexane	55	8.193	8.196	(1.476)	289826	150.000	155.31
	59 Chlorobenzene	112	8.208	8.208	(1.003)	900020	150.000	142.51
	60 1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	332607	150.000	165.04
	61 Ethylbenzene	106	8.305	8.305	(1.015)	473626	150.000	152.49
	62 m,p-Xylenes	106	8.407	8.406	(1.027)	1202813	300.000	305.46
	63 o-Xylene	106	8.744	8.744	(1.068)	578662	150.000	151.10
	64 Styrene	104	8.759	8.759	(1.070)	962944	150.000	158.77
	66 Bromoform	173	8.916	8.916	(1.089)	242102	150.000	152.44
	67 Isopropylbenzene	105	9.059	9.059	(1.107)	1446088	150.000	165.34
	68 1,1,2,2-Tetrachloroethane	83	9.329	9.329	(0.917)	462436	150.000	139.91
$	69 4-Bromofluorobenzene	95	9.190	9.190	(1.123)	383258	150.000	150.59
*	70 1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	198833	50.0000	
	71 1,2,3-Trichloropropane	75	9.362	9.362	(0.921)	488547	150.000	157.63(M)
	72 trans-1,4-Dichloro-2-butene	53	9.374	9.377	(1.145)	97575	150.000	155.85
	73 n-Propylbenzene	91	9.411	9.411	(0.926)	1635000	150.000	152.58
	74 Bromobenzene	156	9.317	9.317	(0.916)	397251	150.000	145.29
	75 1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	1177381	150.000	151.79
	76 2-Chlorotoluene	91	9.482	9.482	(0.933)	992742	150.000	150.83
	77 4-Chlorotoluene	91	9.572	9.576	(0.941)	1145588	150.000	148.90

78	tert-Butylbenzene	119	9.835	9.835 (0.967)	1029053	150.000	171.05(M)
79	1,2,4-Trimethylbenzene	105	9.876	9.876 (0.971)	1177305	150.000	151.29

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Report Date: 07-Jun-2024 10:54

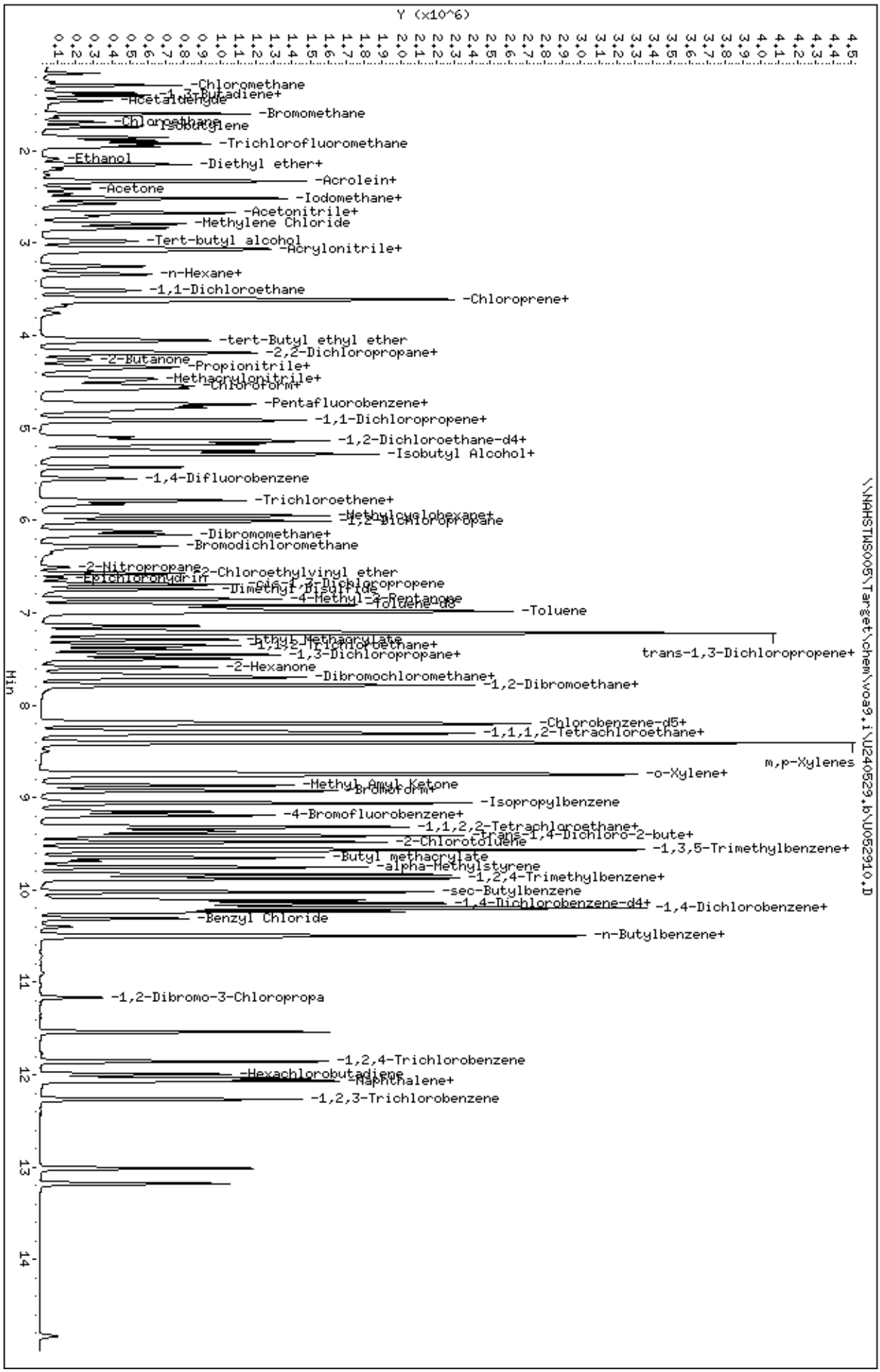
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
81	sec-Butylbenzene	105	10.022	10.022	(0.986)	1403849	150.000	171.93
82	p-Isopropyltoluene	119	10.146	10.146	(0.998)	1226585	150.000	172.39
83	1,3-Dichlorobenzene	146	10.112	10.116	(0.994)	683169	150.000	147.96(M)
84	1,4-Dichlorobenzene	146	10.191	10.191	(1.002)	720464	150.000	140.90
86	Benzyl Chloride	91	10.307	10.311	(1.259)	539443	150.000	153.49
87	n-Butylbenzene	91	10.491	10.491	(1.032)	1065723	150.000	152.68
88	1,2-Dichlorobenzene	146	10.502	10.502	(1.033)	678777	150.000	141.89(M)
89	1,2-Dibromo-3-Chloropropane	155	11.166	11.165	(1.098)	72928	150.000	151.79
90	1,2,4-Trichlorobenzene	180	11.855	11.855	(1.166)	486319	150.000	161.34
91	Hexachlorobutadiene	225	11.994	11.998	(1.180)	202483	150.000	167.42
92	Naphthalene	128	12.065	12.065	(1.187)	1179542	150.000	150.57
93	1,2,3-Trichlorobenzene	180	12.268	12.268	(1.206)	439273	150.000	156.43
146	Methyl acetate	43	2.712	2.708	(0.564)	330134	150.000	148.43
138	Freon TF	101	2.330	2.326	(0.484)	258556	150.000	152.29
141	Cyclohexane	56	4.782	4.778	(0.994)	441425	150.000	153.27
142	Tetrahydrofuran	42	4.542	4.542	(0.944)	130444	300.000	300.33
147	Methylcyclohexane	55	5.944	5.944	(1.071)	834322	150.000	152.36(A)
135	1,4-Dioxane	88	6.165	6.168	(1.281)	95387	3000.00	3093.07
132	n-Butanol	56	5.824	5.827	(1.210)	252429	3000.00	3345.82
136	n-Hexane	57	3.335	3.331	(0.693)	315804	150.000	154.00
139	Diethyl ether	59	2.143	2.139	(0.445)	240834	150.000	152.02
148	Tert-butyl alcohol	59	2.978	2.975	(0.619)	659260	3000.00	3004.53
149	Isopropyl alcohol	45	2.570	2.570	(0.534)	520251	3000.00	3002.62
152	Amyl alcohol	42	7.398	7.398	(0.904)	285246	3000.00	3072.56
156	Diisopropyl ether	45	3.619	3.619	(0.752)	1037671	150.000	145.11
162	Butyl acrylate	55	8.729	8.733	(1.066)	710720	150.000	153.96
187	n-Amyl acetate	43	8.928	8.931	(1.091)	645315	150.000	162.19
164	Dicyclopentadiene	66	10.198	10.198	(1.003)	1529157	150.000	149.94
166	1,2,3-Trimethylbenzene	105	10.232	10.232	(1.006)	1039375	150.000	148.45
167	Ethanol	45	2.086	2.086	(0.434)	97976	3000.00	3003.09
172	tert-Butyl formate	59	5.246	5.250	(1.090)	725459	300.000	327.92(A)
173	3,3-Dimethyl-1-butanol	57	7.781	7.784	(0.951)	819478	3000.00	3213.17
174	tert-Amyl methyl ether	73	5.288	5.284	(1.099)	982790	150.000	149.97
175	tert-Butyl ethyl ether	59	4.051	4.047	(0.842)	947398	150.000	147.90
176	tert-Amyl alcohol	59	5.246	5.250	(1.090)	725459	3000.00	3241.53
151	4-Methyl-2-pentanol	45	7.218	7.222	(1.301)	2335055	3000.00	3080.56
140	1,3-Butadiene	54	1.400	1.396	(0.291)	167084	150.000	161.24
182	Epichlorohydrin	57	6.630	6.630	(1.195)	103901	600.000	599.87
M 94	1,2-Dichloroethylene (total)	96				675830	300.000	(a)
145	alpha-Methylstyrene	118	9.752	9.752	(0.959)	503336	150.000	151.40
130	Ethyl Acetate	43	4.339	4.339	(0.902)	375770	150.000	145.67
131	Methyl Acrylate	55	4.369	4.365	(0.908)	426664	150.000	152.77
189	n-Butyl acetate	43	7.702	7.702	(0.941)	626312	150.000	162.81
134	Cyclohexanone	55	9.153	9.152	(0.900)	367899	3000.00	3120.85
185	Isoprene	39	2.154	2.146	(0.448)	73860	150.000	152.00
188	Isopropyl acetate	43	5.284	5.284	(0.952)	1013065	150.000	152.09
150	Allyl alcohol	57	3.335	3.331	(0.693)	315804	3000.00	3080.10
194	Acetaldehyde	44	1.456	1.453	(0.303)	305993	600.000	604.15(M)
195	Methyl Amyl Ketone	43	8.868	8.868	(1.083)	762237	150.000	170.76
200	Dimethyl Disulfide	94	6.746	6.746	(0.824)	406307	150.000	159.80
202	Isobutylene	41	1.741	1.734	(0.362)	140148	150.000	147.48(M)
133	Ethyl Acrylate	55	5.944	5.944	(1.235)	834322	150.000	151.83

163 Butyl methacrylate	41	9.647	9.647 (0.949)	384255	150.000	167.01
159 Propylene oxide	43	2.199	2.191 (0.457)	51620	300.000	303.78(A)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
203 2-Ethylhexyl Acrylate	55	12.039	12.039	(1.184)	460688	150.000	149.55

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.



Data File: \\NAHSTWS005\Target\chem\voa9,i\U240529,b\U052910,D
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Sample Info: VSTD150;VSTD150;1;9
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Column phase: DB624

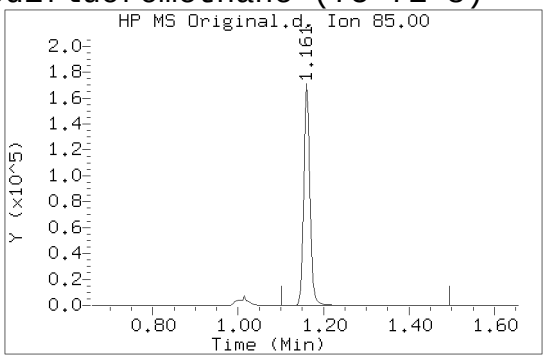
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Operator: FT
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Inj Date : 29-MAY-2024 13:31
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LabSampID : VSTD150

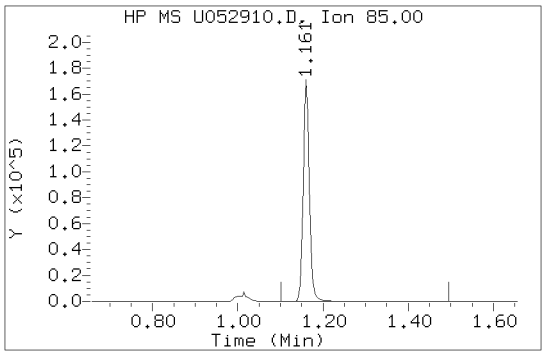
Dichlorodifluoromethane (75-71-8)

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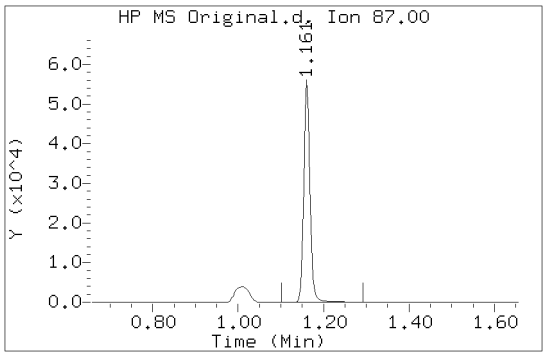
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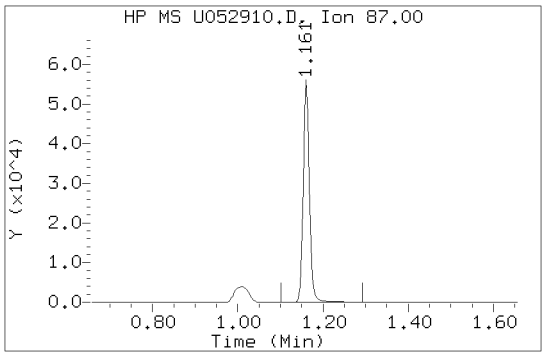
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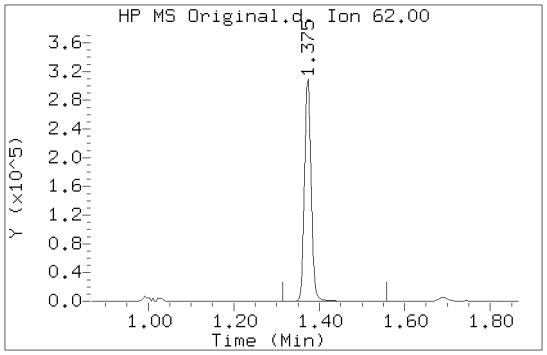
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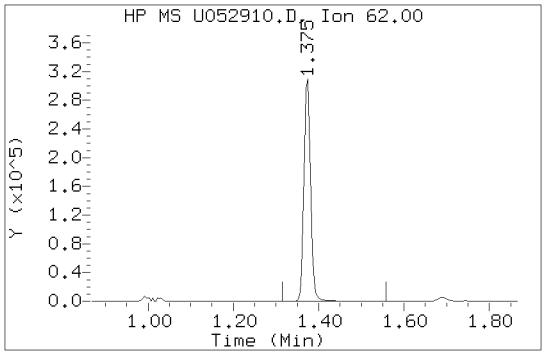
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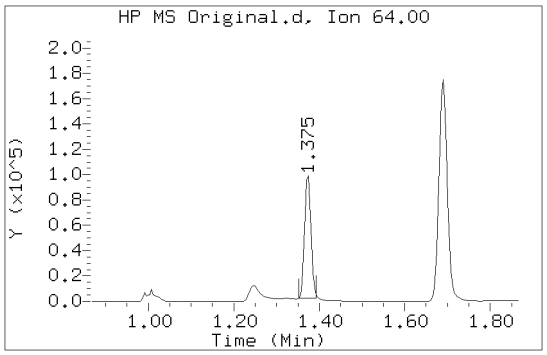
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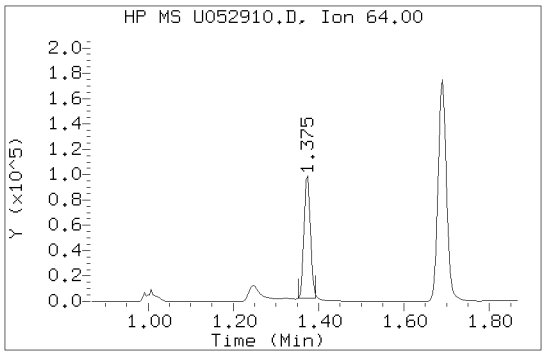
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BEFORE
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AFTER
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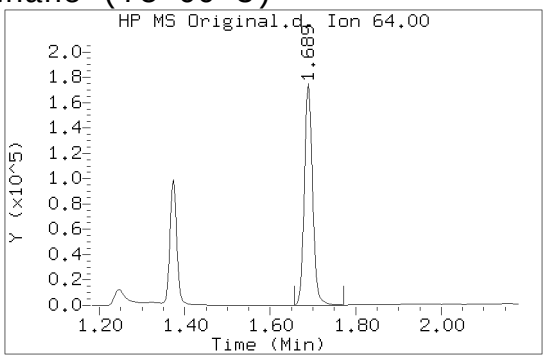


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InstruID : VOA9.i
LabSampID : VSTD150

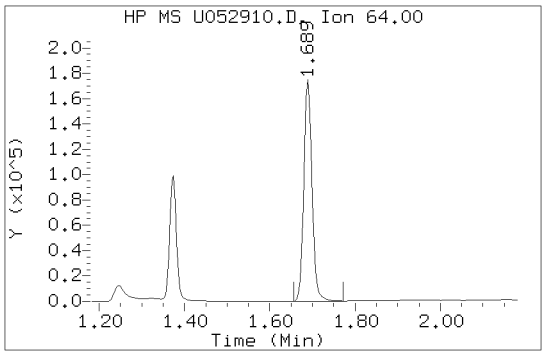
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Reason Code:

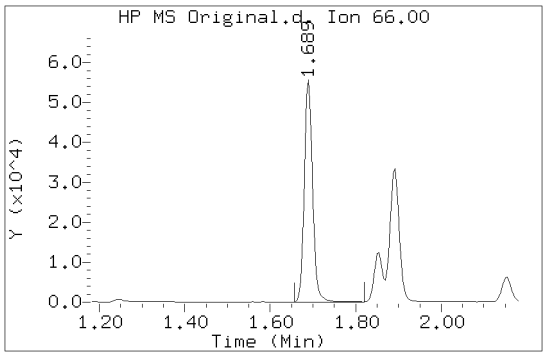
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zaid



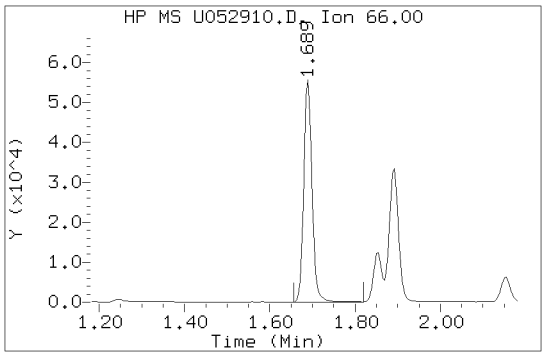
AFTER
MASS
64
AREA
238484
HEIGHT
174717
07-Jun-2024
10:36



BEFORE
MASS
66
AREA
76434
HEIGHT
55603
06-Jun-2024
17:10
s
zaid



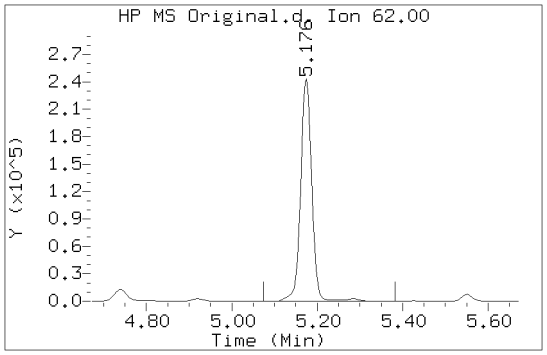
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66
AREA
76434
HEIGHT
55603
07-Jun-2024
10:36



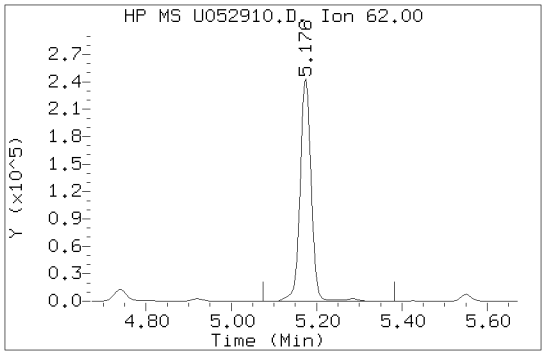
1,2-Dichloroethane (107-06-2)

Reason Code:

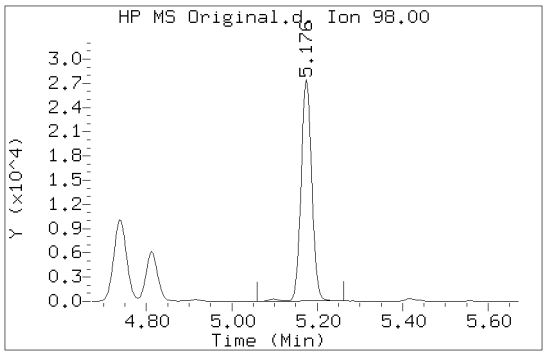
BEFORE
MASS
62
AREA
449209
HEIGHT
243088
06-Jun-2024
17:10
s
zaid



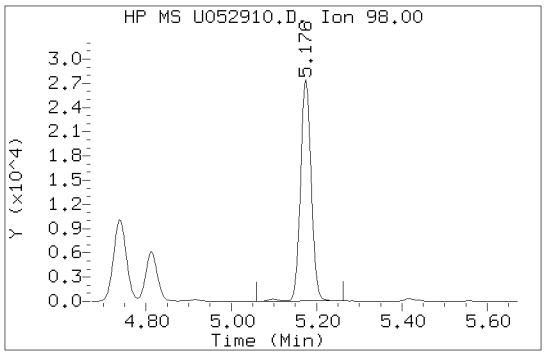
AFTER
MASS
62
AREA
449209
HEIGHT
243088
07-Jun-2024
10:36



BEFORE
MASS
98
AREA
48613
HEIGHT
27402
06-Jun-2024
17:10
s
zaid



AFTER
MASS
98
AREA
48613
HEIGHT
27402
07-Jun-2024
10:36

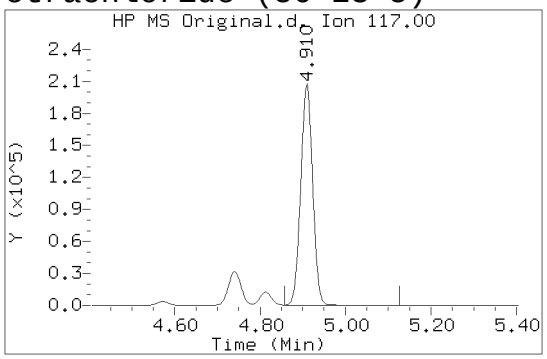


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InstruID : VOA9.i
LabSampID : VSTD150

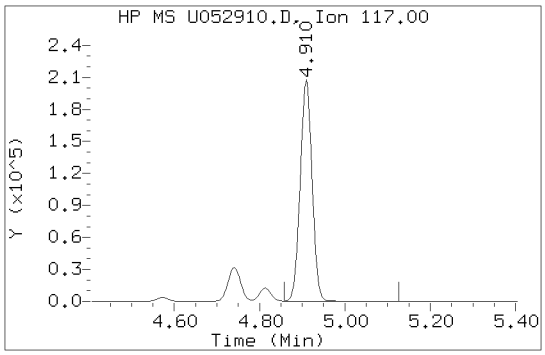
Carbon Tetrachloride (56-23-5)

Reason Code:

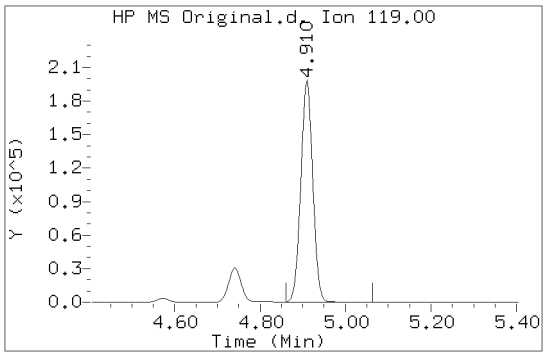
BEFORE
MASS
117
AREA
409418
HEIGHT
207671
06-Jun-2024
17:10
s
zaid



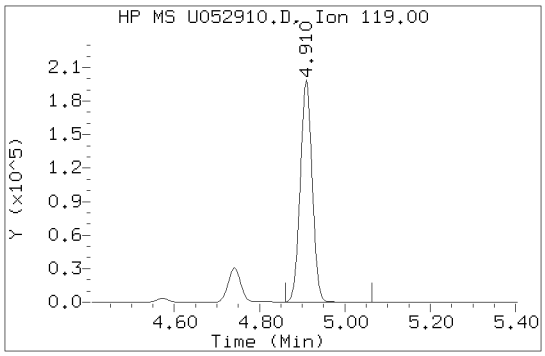
AFTER
MASS
117
AREA
409418
HEIGHT
207671
07-Jun-2024
10:36



BEFORE
MASS
119
AREA
392839
HEIGHT
198740
06-Jun-2024
17:10
s
zaid



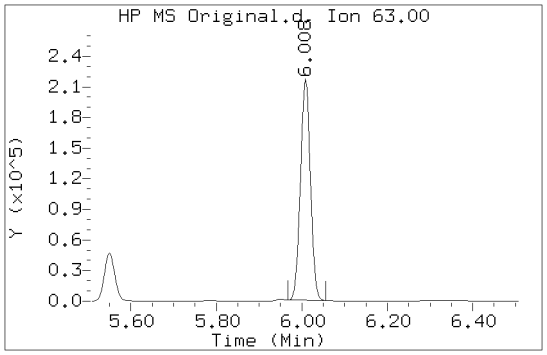
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MASS
119
AREA
392839
HEIGHT
198740
07-Jun-2024
10:36



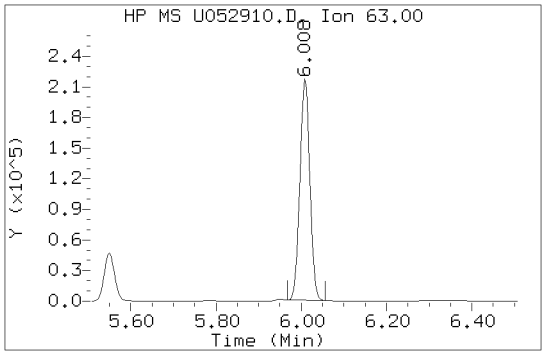
1,2-Dichloropropane (78-87-5)

Reason Code:

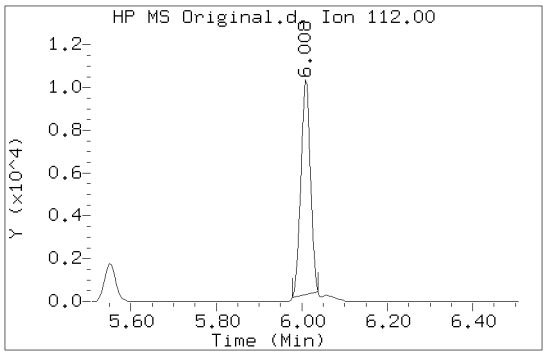
BEFORE
MASS
63
AREA
358971
HEIGHT
216933
06-Jun-2024
17:10
s
zaid



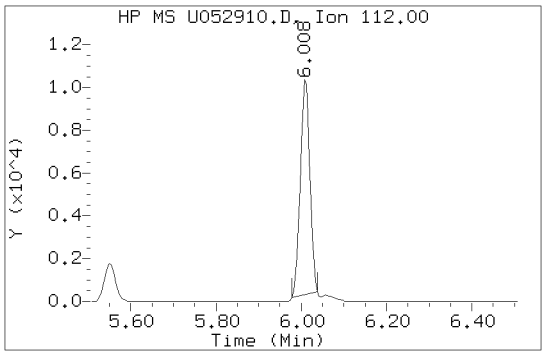
AFTER
MASS
63
AREA
358971
HEIGHT
216933
07-Jun-2024
10:36



BEFORE
MASS
112
AREA
15885
HEIGHT
10040
06-Jun-2024
17:10
s
zaid



AFTER
MASS
112
AREA
15885
HEIGHT
10040
07-Jun-2024
10:36

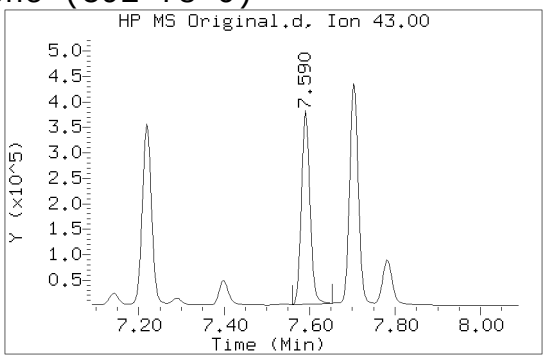


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Inj Date : 29-MAY-2024 13:31
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LabSampID : VSTD150

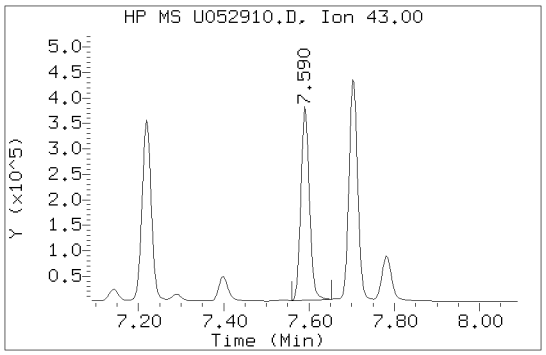
2-Hexanone (591-78-6)

Reason Code:

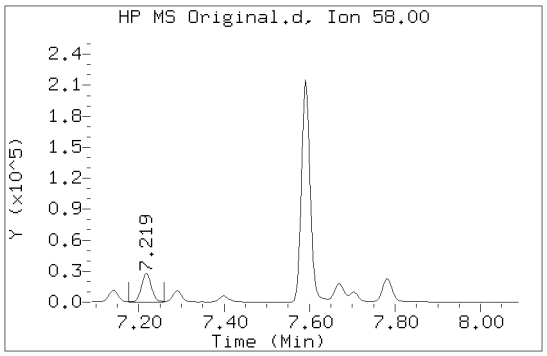
BEFORE
MASS
43
AREA
541778
HEIGHT
380028
06-Jun-2024
17:10
s
zaid



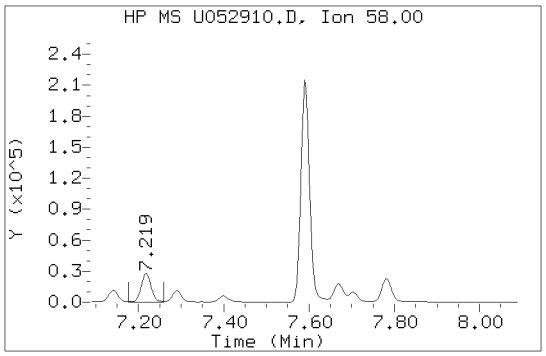
AFTER
MASS
43
AREA
541778
HEIGHT
380028
07-Jun-2024
10:36



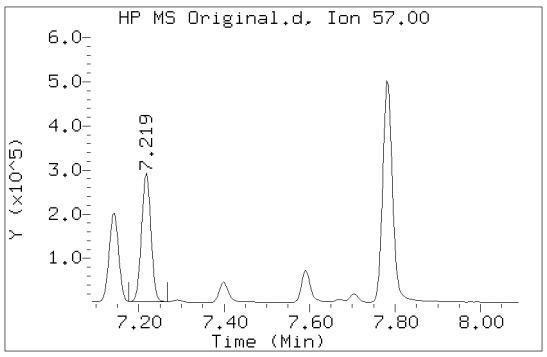
BEFORE
MASS
58
AREA
44771
HEIGHT
27958
06-Jun-2024
17:10
s
zaid



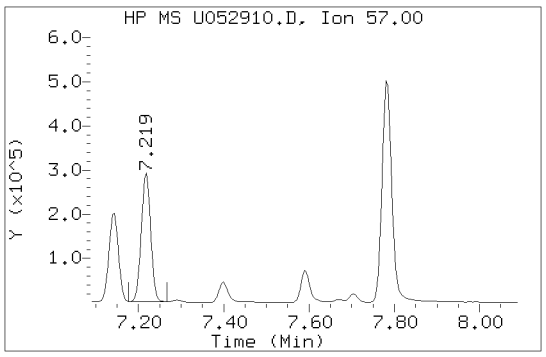
AFTER
MASS
58
AREA
44771
HEIGHT
27958
07-Jun-2024
10:36



BEFORE
MASS
57
AREA
445959
HEIGHT
292724
06-Jun-2024
17:10
s
zaid



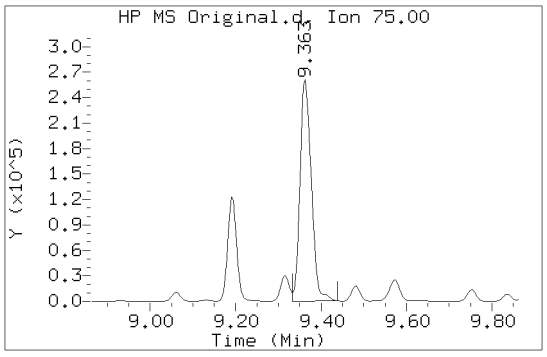
AFTER
MASS
57
AREA
445959
HEIGHT
292724
07-Jun-2024
10:36



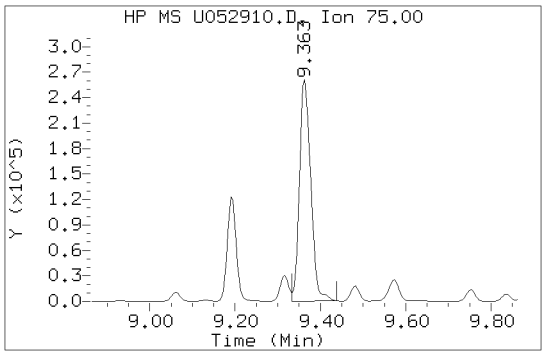
1,2,3-Trichloropropane (96-18-4)

Reason Code:

BEFORE
MASS
75
AREA
488547
HEIGHT
260819
06-Jun-2024
17:10
s
zaid



AFTER
MASS
75
AREA
488547
HEIGHT
260819
07-Jun-2024
10:36

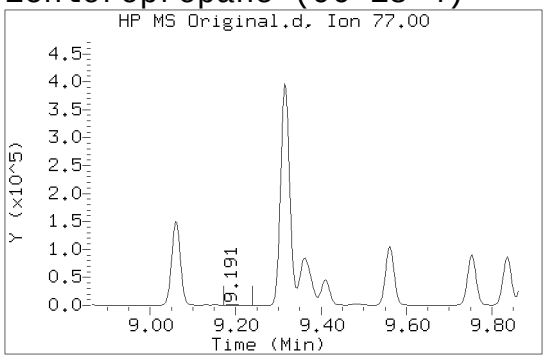


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Inj Date : 29-MAY-2024 13:31
InstruID : VOA9.i
LabSampID : VSTD150

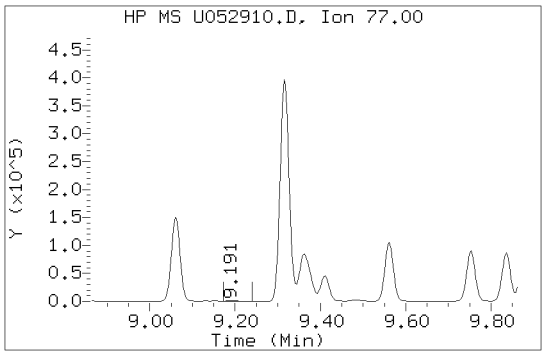
1,2,3-Trichloropropane (96-18-4)

Reason Code:

BEFORE
MASS
77
AREA
2652
HEIGHT
1650
06-Jun-2024
17:10
s
zaid



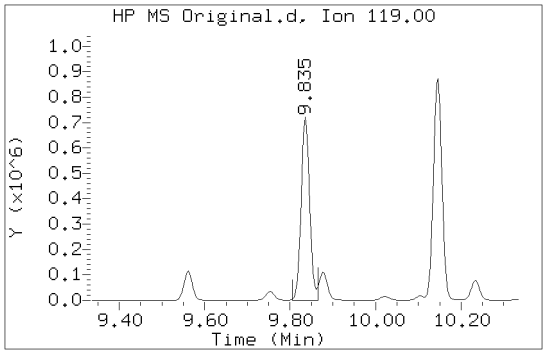
AFTER
MASS
77
AREA
2652
HEIGHT
1650
07-Jun-2024
10:36



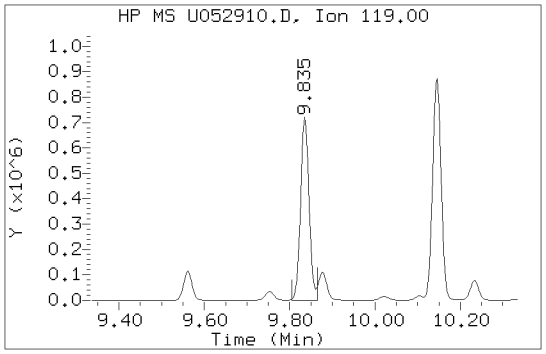
tert-Butylbenzene (98-06-6)

Reason Code:

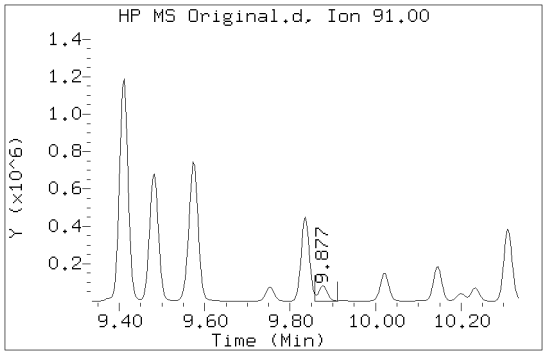
BEFORE
MASS
119
AREA
1029053
HEIGHT
721919
06-Jun-2024
17:10
s
zaid



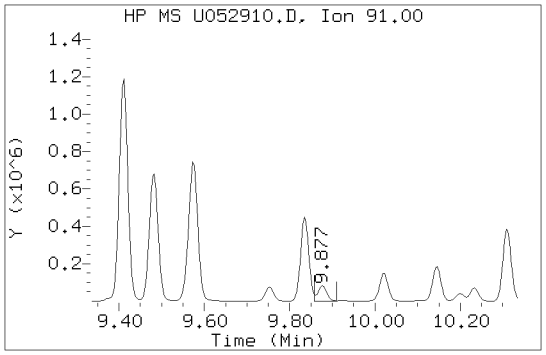
AFTER
MASS
119
AREA
1029053
HEIGHT
721919
07-Jun-2024
10:36



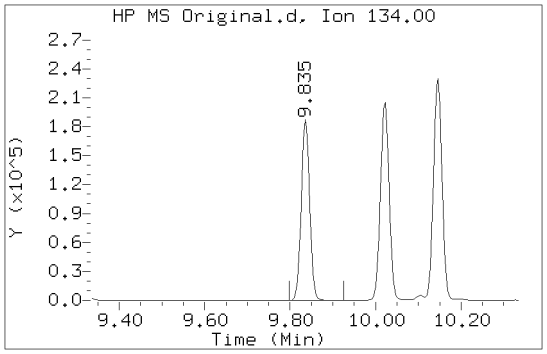
BEFORE
MASS
91
AREA
122517
HEIGHT
82317
06-Jun-2024
17:10
s
zaid



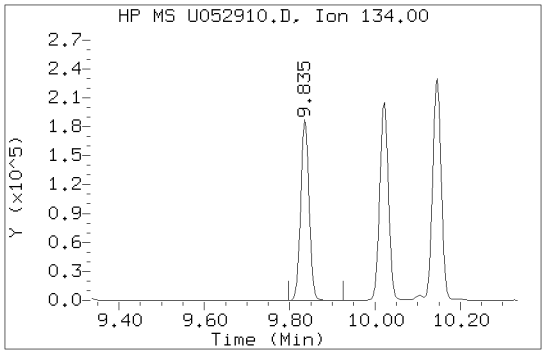
AFTER
MASS
91
AREA
122517
HEIGHT
82317
07-Jun-2024
10:36



BEFORE
MASS
134
AREA
261443
HEIGHT
187264
06-Jun-2024
17:10
s
zaid



AFTER
MASS
134
AREA
261443
HEIGHT
187264
07-Jun-2024
10:36



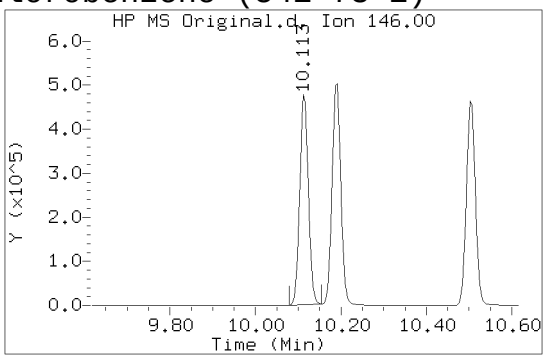
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Inj Date : 29-MAY-2024 13:31
InstruID : VOA9.i
LabSampID : VSTD150

1,3-Dichlorobenzene (541-73-1)

Reason Code:

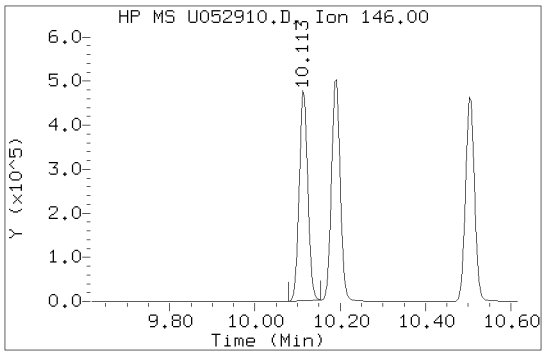
BEFORE

MASS
146
AREA
683169
HEIGHT
477469
06-Jun-2024
17:10
s
zaid



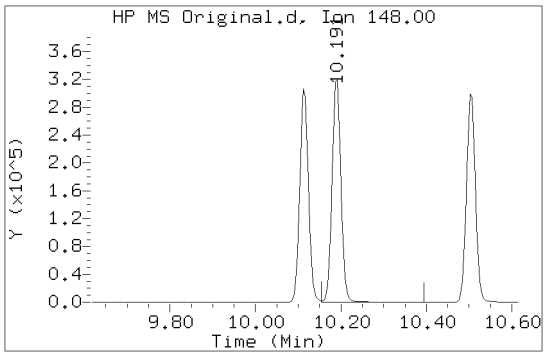
AFTER

MASS
146
AREA
683169
HEIGHT
477469
07-Jun-2024
10:36



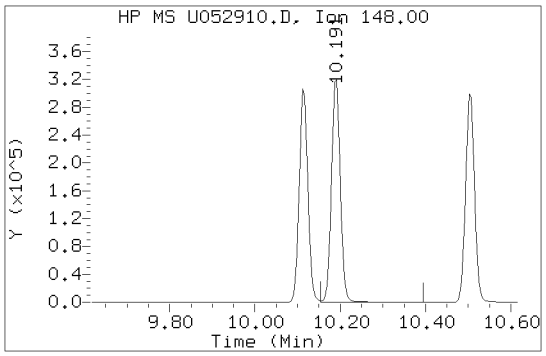
BEFORE

MASS
148
AREA
460100
HEIGHT
319245
06-Jun-2024
17:10
s
zaid



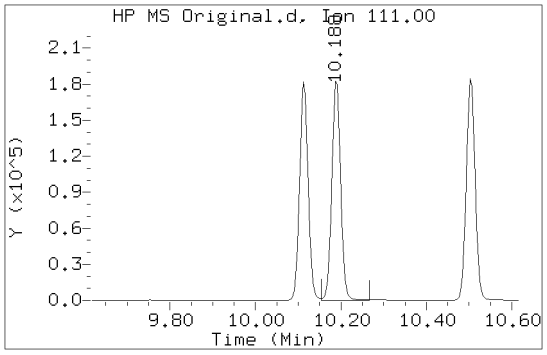
AFTER

MASS
148
AREA
460100
HEIGHT
319245
07-Jun-2024
10:36



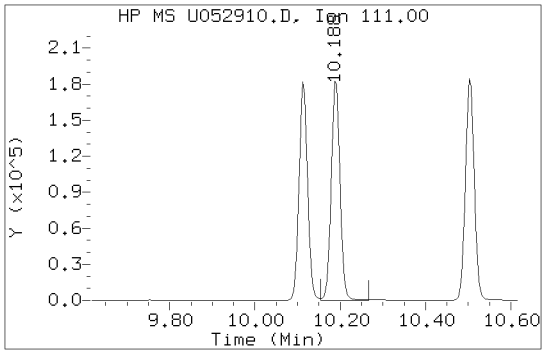
BEFORE

MASS
111
AREA
261922
HEIGHT
182394
06-Jun-2024
17:10
s
zaid



AFTER

MASS
111
AREA
261922
HEIGHT
182394
07-Jun-2024
10:36

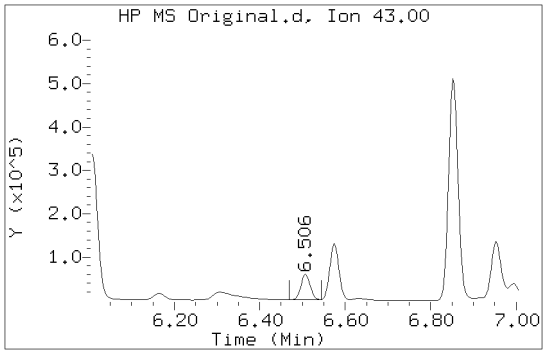


2-Nitropropane (79-46-9)

Reason Code:

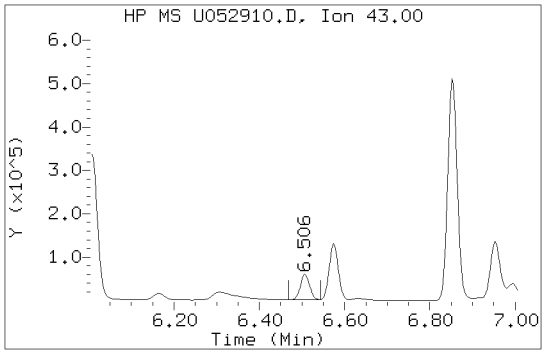
BEFORE

MASS
43
AREA
89884
HEIGHT
58675
06-Jun-2024
17:10
s
zaid



AFTER

MASS
43
AREA
89884
HEIGHT
58675
07-Jun-2024
10:36



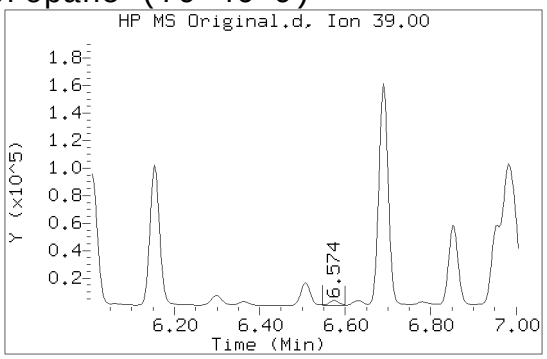
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Inj Date : 29-MAY-2024 13:31
InstruID : VOA9.i
LabSampID : VSTD150

2-Nitropropane (79-46-9)

Reason Code:

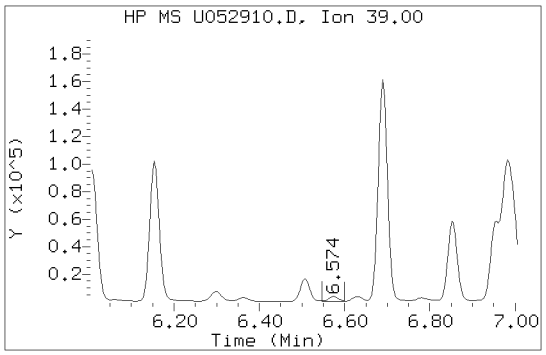
BEFORE

MASS
39
AREA
5059
HEIGHT
3450
06-Jun-2024
17:10
s
zaid



AFTER

MASS
39
AREA
5059
HEIGHT
3450
07-Jun-2024
10:36

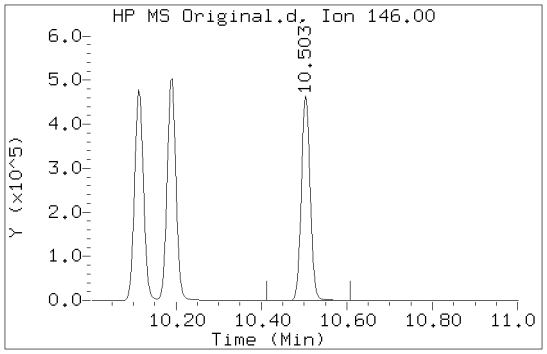


1,2-Dichlorobenzene (95-50-1)

Reason Code:

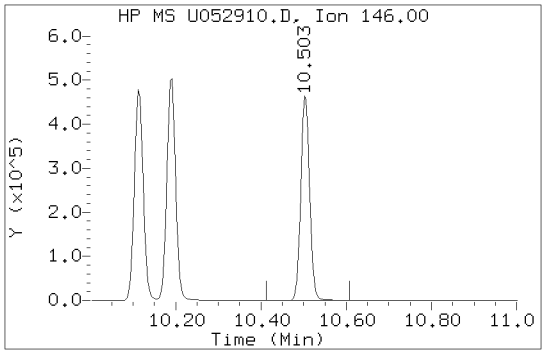
BEFORE

MASS
146
AREA
678777
HEIGHT
464251
06-Jun-2024
17:10
s
zaid



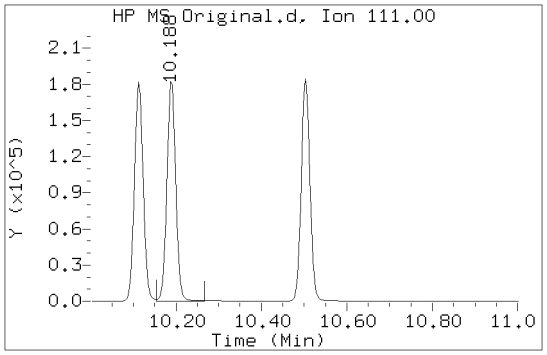
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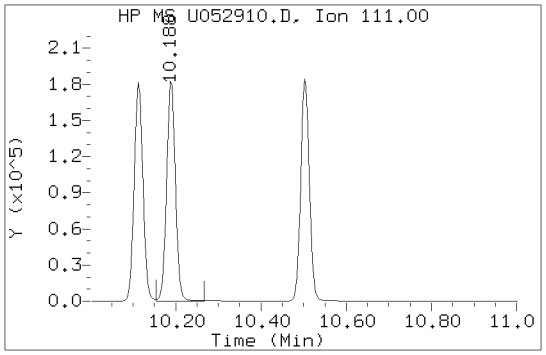
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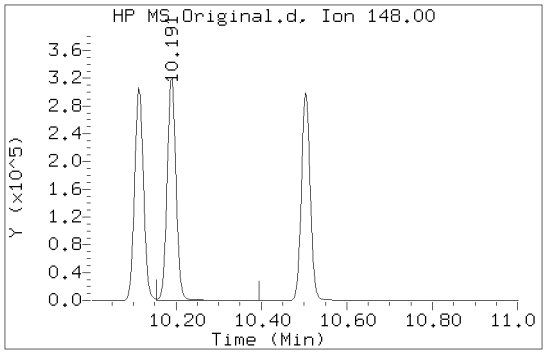
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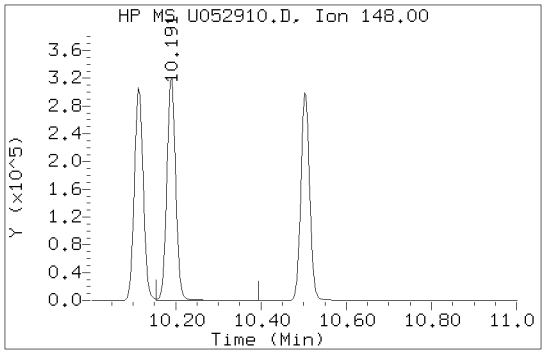
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AFTER

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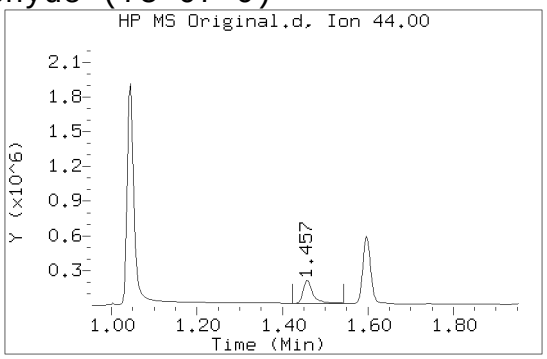


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LabSampID : VSTD150

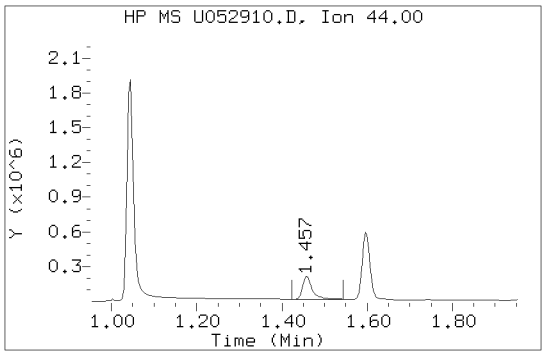
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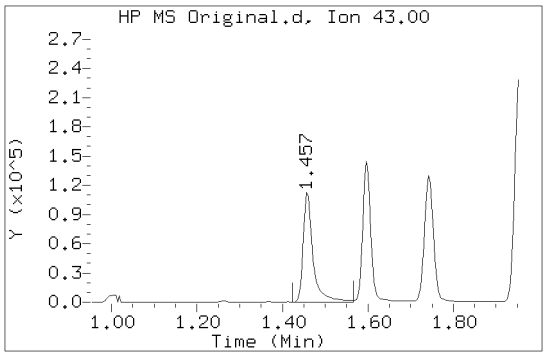
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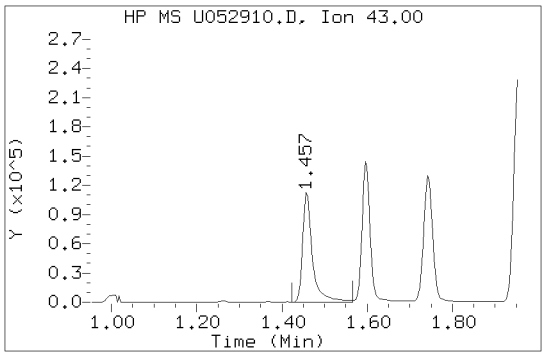
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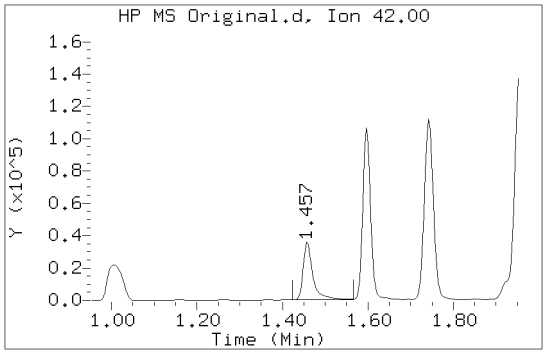
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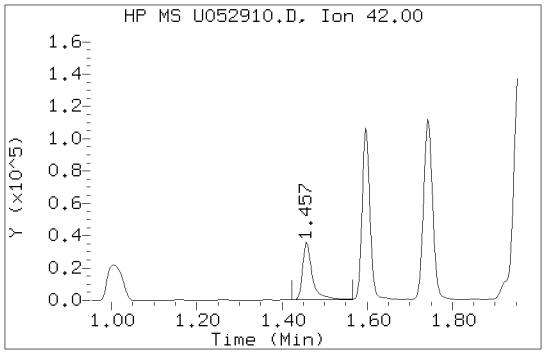
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BEFORE
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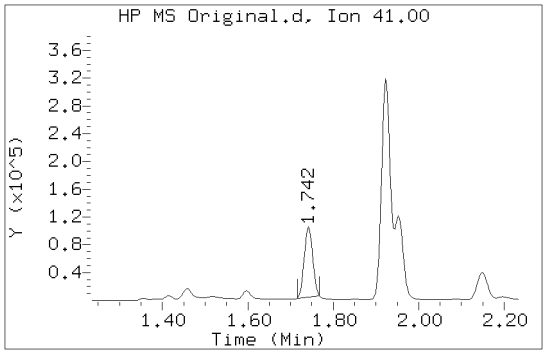
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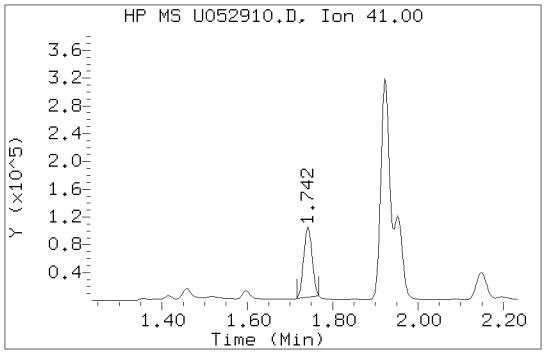
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Reason Code:

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AFTER
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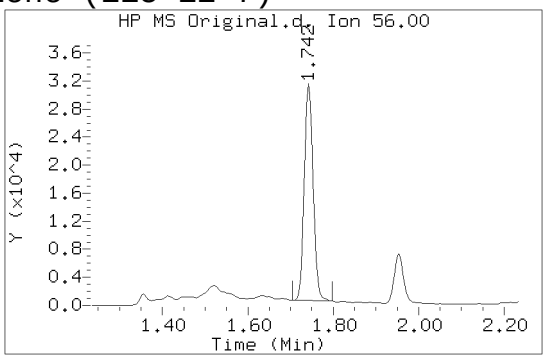


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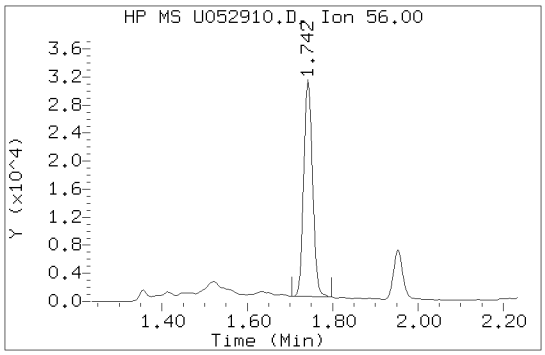
Isobutylene (115-11-7)

Reason Code:

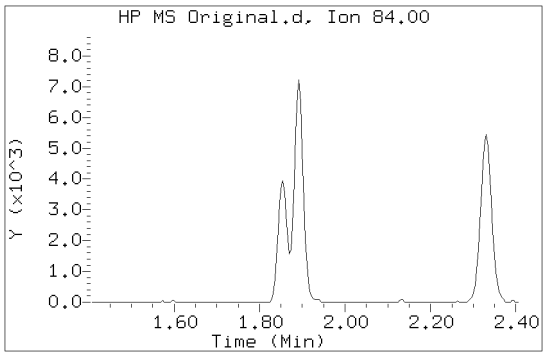
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06-Jun-2024
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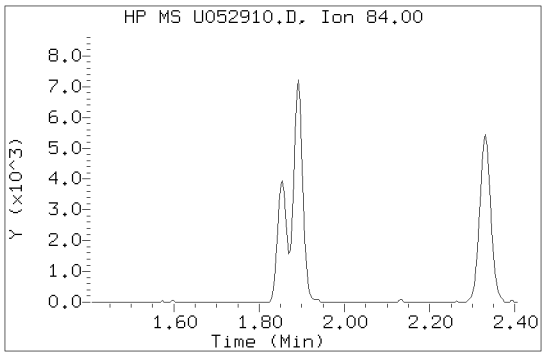
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BEFORE
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06-Jun-2024
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s
zaid



AFTER
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AREA
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HEIGHT
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07-Jun-2024
10:36



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052911.D Page 1
Report Date: 07-Jun-2024 10:54

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052911.D
Lab Smp Id: VSTD200 Client Smp ID: VSTD200
Inj Date : 29-MAY-2024 13:53
Operator : FT Inst ID: VOA9.i
Smp Info : VSTD200;VSTD200;1;10
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240529.b\8260C.m
Meth Date : 07-Jun-2024 10:14 r.patel Quant Type: ISTD
Cal Date : 29-MAY-2024 13:53 Cal File: U052911.D
Als bottle: 11 Calibration Sample, Level: 10
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14

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	4.811	4.811	(1.000)	273486	50.0000	
2	Dichlorodifluoromethane	85	1.156	1.156	(0.240)	240139	200.000	235.53(AM)
3	Chloromethane	50	1.288	1.288	(0.268)	716916	200.000	198.72
4	Propionitrile	54	4.339	4.339	(0.902)	679011	2000.00	1933.72
5	Vinyl Chloride	62	1.366	1.366	(0.284)	452378	200.000	219.04(AM)
6	Bromomethane	94	1.595	1.595	(0.332)	177922	200.000	203.09(A)
7	Chloroethane	64	1.681	1.681	(0.350)	317922	200.000	199.41(M)
8	Trichlorofluoromethane	101	1.884	1.884	(0.392)	564354	200.000	230.11(A)
9	Acrolein	56	2.259	2.259	(0.469)	45520	400.000	398.16
10	Acetone	43	2.405	2.405	(0.500)	309961	400.000	391.23
11	1,1-Dichloroethene	96	2.322	2.322	(0.483)	387075	200.000	214.69(A)
12	Isobutyl Alcohol	43	5.284	5.284	(1.098)	1572359	4000.00	4015.41(A)
13	Acetonitrile	39	2.663	2.663	(0.554)	473485	2000.00	2134.30(A)
14	Allyl Chloride	41	2.667	2.667	(0.554)	1175804	200.000	199.30
16	Acrylonitrile	53	3.061	3.061	(0.636)	334027	400.000	398.44
17	Methylene Chloride	84	2.783	2.783	(0.579)	442243	200.000	199.76
18	Methyl tert-butyl ether	73	3.076	3.076	(0.639)	1108713	200.000	199.38
19	Carbon Disulfide	76	2.510	2.510	(0.522)	2224092	400.000	439.76(A)
20	trans-1,2-Dichloroethene	96	3.050	3.050	(0.634)	411268	200.000	201.73(A)
21	Vinyl Acetate	43	4.339	4.339	(0.902)	509527	400.000	422.76(A)
22	1,1-Dichloroethane	63	3.507	3.507	(0.729)	756265	200.000	193.10

23 Chloroprene	53	3.601	3.601 (0.748)	634213	200.000	220.85(A)
24 2-Butanone	43	4.260	4.260 (0.885)	492027	400.000	402.58(A)

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052911.D Page 2
Report Date: 07-Jun-2024 10:54

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	25 Methacrylonitrile	41	4.489	4.489	(0.933)	294600	200.000	200.43(aA)
	26 2,2-Dichloropropane	77	4.174	4.174	(0.868)	590088	200.000	229.56(A)
	27 cis-1,2-Dichloroethene	96	4.189	4.189	(0.871)	496347	200.000	197.13
	28 Chloroform	83	4.568	4.568	(0.949)	770700	200.000	197.09
	29 Bromochloromethane	128	4.463	4.463	(0.928)	234915	200.000	201.86(A)
$	30 Dibromofluoromethane	113	4.744	4.744	(0.986)	379603	200.000	199.45
	31 1,1,1-Trichloroethane	97	4.736	4.736	(0.984)	650668	200.000	237.61(A)
	32 1,1-Dichloropropene	75	4.916	4.916	(0.886)	618506	200.000	216.15(A)
	33 1,2-Dichloroethane	62	5.171	5.171	(0.932)	601098	200.000	202.61(AM)
	34 Carbon Tetrachloride	117	4.905	4.905	(0.884)	553905	200.000	247.11(AM)
$	35 1,2-Dichloroethane-d4	65	5.093	5.093	(1.058)	430320	200.000	203.40(A)
*	36 1,4-Difluorobenzene	114	5.550	5.550	(1.000)	395068	50.0000	
	37 Benzene	78	5.134	5.134	(0.925)	1809175	200.000	194.42
	38 Trichloroethene	130	5.786	5.786	(1.043)	479731	200.000	209.46(A)
	39 Bromodichloromethane	83	6.277	6.277	(1.131)	574423	200.000	229.51(A)
	40 Methyl Methacrylate	41	5.827	5.827	(1.211)	224325	200.000	198.48
	41 2-Chloroethylvinyl ether	63	6.573	6.573	(1.184)	444756	400.000	397.38
	42 1,2-Dichloropropane	63	6.007	6.007	(1.082)	481859	200.000	196.33(M)
	43 2-Nitropropane	43	6.506	6.506	(1.352)	122639	200.000	197.57(M)
	44 Dibromomethane	93	6.116	6.116	(1.102)	287456	200.000	201.69(A)
	45 4-Methyl-2-Pentanone	43	6.851	6.851	(0.837)	1077867	400.000	399.19
	46 cis-1,3-Dichloropropene	75	6.690	6.690	(1.205)	770716	200.000	199.25
*	47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	363359	50.0000	
$	48 Toluene-d8	98	6.918	6.918	(0.845)	1400146	200.000	201.45(A)
	49 Ethyl Methacrylate	69	7.289	7.289	(1.313)	685626	200.000	224.36
	50 Toluene	91	6.978	6.978	(0.853)	1863205	200.000	188.90
	51 trans-1,3-Dichloropropene	75	7.196	7.196	(1.296)	644492	200.000	199.02
	52 2-Hexanone	43	7.589	7.589	(0.927)	725984	400.000	396.79(M)
	53 1,1,2-Trichloroethane	83	7.353	7.353	(0.898)	360962	200.000	199.96
	54 1,3-Dichloropropane	76	7.499	7.499	(0.916)	785403	200.000	195.49
	55 Dibromochloromethane	129	7.690	7.690	(0.940)	481854	200.000	199.34
	56 Tetrachloroethene	164	7.454	7.454	(0.911)	377192	200.000	218.96(A)
	57 1,2-Dibromoethane	107	7.784	7.784	(0.951)	445120	200.000	205.20(A)
	58 1-Chlorohexane	55	8.196	8.196	(1.477)	389857	200.000	197.68
	59 Chlorobenzene	112	8.208	8.208	(1.003)	1204687	200.000	192.36
	60 1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	447071	200.000	223.71(A)
	61 Ethylbenzene	106	8.305	8.305	(1.015)	633308	200.000	199.00
	62 m,p-Xylenes	106	8.406	8.406	(1.027)	1591481	400.000	397.68
	63 o-Xylene	106	8.744	8.744	(1.068)	767838	200.000	201.91(A)
	64 Styrene	104	8.759	8.759	(1.070)	1296564	200.000	215.58(A)
	66 Bromoform	173	8.916	8.916	(1.089)	335082	200.000	198.89
	67 Isopropylbenzene	105	9.059	9.059	(1.107)	1919426	200.000	221.31(A)
	68 1,1,2,2-Tetrachloroethane	83	9.329	9.329	(0.917)	626510	200.000	194.34
$	69 4-Bromofluorobenzene	95	9.190	9.190	(1.123)	508465	200.000	201.51(A)
*	70 1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	193941	50.0000	
	71 1,2,3-Trichloropropane	75	9.362	9.362	(0.921)	680533	200.000	225.11(AM)
	72 trans-1,4-Dichloro-2-butene	53	9.377	9.377	(1.146)	145932	200.000	235.06(A)
	73 n-Propylbenzene	91	9.411	9.411	(0.926)	2181629	200.000	208.73(A)
	74 Bromobenzene	156	9.317	9.317	(0.916)	533475	200.000	200.04(A)
	75 1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	1562083	200.000	199.31
	76 2-Chlorotoluene	91	9.482	9.482	(0.933)	1326171	200.000	199.80
	77 4-Chlorotoluene	91	9.576	9.576	(0.942)	1529143	200.000	203.77(A)

78	tert-Butylbenzene	119	9.835	9.835 (0.967)	1330175	200.000	226.68(AM)
79	1,2,4-Trimethylbenzene	105	9.876	9.876 (0.971)	1562562	200.000	199.47

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
81	sec-Butylbenzene	105	10.022	10.022	(0.986)	1832877	200.000	230.14(A)
82	p-Isopropyltoluene	119	10.146	10.146	(0.998)	1612563	200.000	232.35(A)
83	1,3-Dichlorobenzene	146	10.116	10.116	(0.995)	912530	200.000	202.62(AM)
84	1,4-Dichlorobenzene	146	10.191	10.191	(1.002)	950730	200.000	190.62
86	Benzyl Chloride	91	10.311	10.311	(1.260)	763055	200.000	198.43
87	n-Butylbenzene	91	10.491	10.491	(1.032)	1416365	200.000	198.86
88	1,2-Dichlorobenzene	146	10.502	10.502	(1.033)	905419	200.000	194.04(M)
89	1,2-Dibromo-3-Chloropropane	155	11.165	11.165	(1.098)	101593	200.000	199.30
90	1,2,4-Trichlorobenzene	180	11.855	11.855	(1.166)	647239	200.000	220.14(A)
91	Hexachlorobutadiene	225	11.998	11.998	(1.180)	267749	200.000	226.97(A)
92	Naphthalene	128	12.065	12.065	(1.187)	1590132	200.000	199.78
93	1,2,3-Trichlorobenzene	180	12.268	12.268	(1.206)	590267	200.000	215.51(A)
146	Methyl acetate	43	2.708	2.708	(0.563)	440647	200.000	202.79(A)
138	Freon TF	101	2.326	2.326	(0.483)	345384	200.000	199.05
141	Cyclohexane	56	4.778	4.778	(0.993)	587963	200.000	198.59
142	Tetrahydrofuran	42	4.542	4.542	(0.944)	176496	400.000	393.91
147	Methylcyclohexane	55	5.944	5.944	(1.071)	1129810	200.000	198.98(A)
135	1,4-Dioxane	88	6.168	6.168	(1.282)	124297	4000.00	3960.62
132	n-Butanol	56	5.827	5.827	(1.211)	344749	4000.00	4679.39(A)
136	n-Hexane	57	3.331	3.331	(0.692)	415342	200.000	198.20
139	Diethyl ether	59	2.139	2.139	(0.445)	323193	200.000	199.31
148	Tert-butyl alcohol	59	2.975	2.975	(0.618)	891426	4000.00	3823.51
149	Isopropyl alcohol	45	2.570	2.570	(0.534)	696757	4000.00	3786.17
152	Amyl alcohol	42	7.398	7.398	(0.904)	393449	4000.00	3968.16
156	Diisopropyl ether	45	3.619	3.619	(0.752)	1369453	200.000	196.11
162	Butyl acrylate	55	8.733	8.733	(1.067)	999143	200.000	198.36
187	n-Amyl acetate	43	8.931	8.931	(1.091)	900081	200.000	228.13(A)
164	Dicyclopentadiene	66	10.198	10.198	(1.003)	2038579	200.000	204.94(A)
166	1,2,3-Trimethylbenzene	105	10.232	10.232	(1.006)	1391506	200.000	203.49(A)
167	Ethanol	45	2.086	2.086	(0.434)	131668	4000.00	3782.12
172	tert-Butyl formate	59	5.250	5.250	(1.091)	998672	400.000	462.28(A)
173	3,3-Dimethyl-1-butanol	57	7.784	7.784	(0.951)	1119804	4000.00	4427.71(A)
174	tert-Amyl methyl ether	73	5.284	5.284	(1.098)	1335807	200.000	208.74(A)
175	tert-Butyl ethyl ether	59	4.047	4.047	(0.841)	1281509	200.000	204.87(A)
176	tert-Amyl alcohol	59	5.250	5.250	(1.091)	998672	4000.00	4569.65(A)
151	4-Methyl-2-pentanol	45	7.222	7.222	(1.301)	3204773	4000.00	3966.68
140	1,3-Butadiene	54	1.396	1.396	(0.290)	226619	200.000	223.95(A)
182	Epichlorohydrin	57	6.630	6.630	(1.195)	144892	800.000	739.62
M 94	1,2-Dichloroethylene (total)	96				907615	400.000	(a)
145	alpha-Methylstyrene	118	9.752	9.752	(0.959)	677516	200.000	199.43
130	Ethyl Acetate	43	4.339	4.339	(0.902)	509527	200.000	202.27(A)
131	Methyl Acrylate	55	4.365	4.365	(0.907)	566657	200.000	198.87
189	n-Butyl acetate	43	7.702	7.702	(0.941)	866187	200.000	227.07(A)
134	Cyclohexanone	55	9.152	9.152	(0.900)	459191	4000.00	3937.53
185	Isoprene	39	2.146	2.146	(0.446)	98636	200.000	199.04
188	Isopropyl acetate	43	5.284	5.284	(0.952)	1268855	200.000	193.56(M)
150	Allyl alcohol	57	3.331	3.331	(0.692)	415342	4000.00	3964.14
194	Acetaldehyde	44	1.453	1.453	(0.302)	417509	800.000	798.73(M)
195	Methyl Amyl Ketone	43	8.868	8.868	(1.083)	1025936	200.000	231.77
200	Dimethyl Disulfide	94	6.746	6.746	(0.824)	618005	200.000	196.44
202	Isobutylene	41	1.734	1.734	(0.360)	201782	200.000	200.66(AM)
133	Ethyl Acrylate	55	5.944	5.944	(1.235)	1129810	200.000	199.19

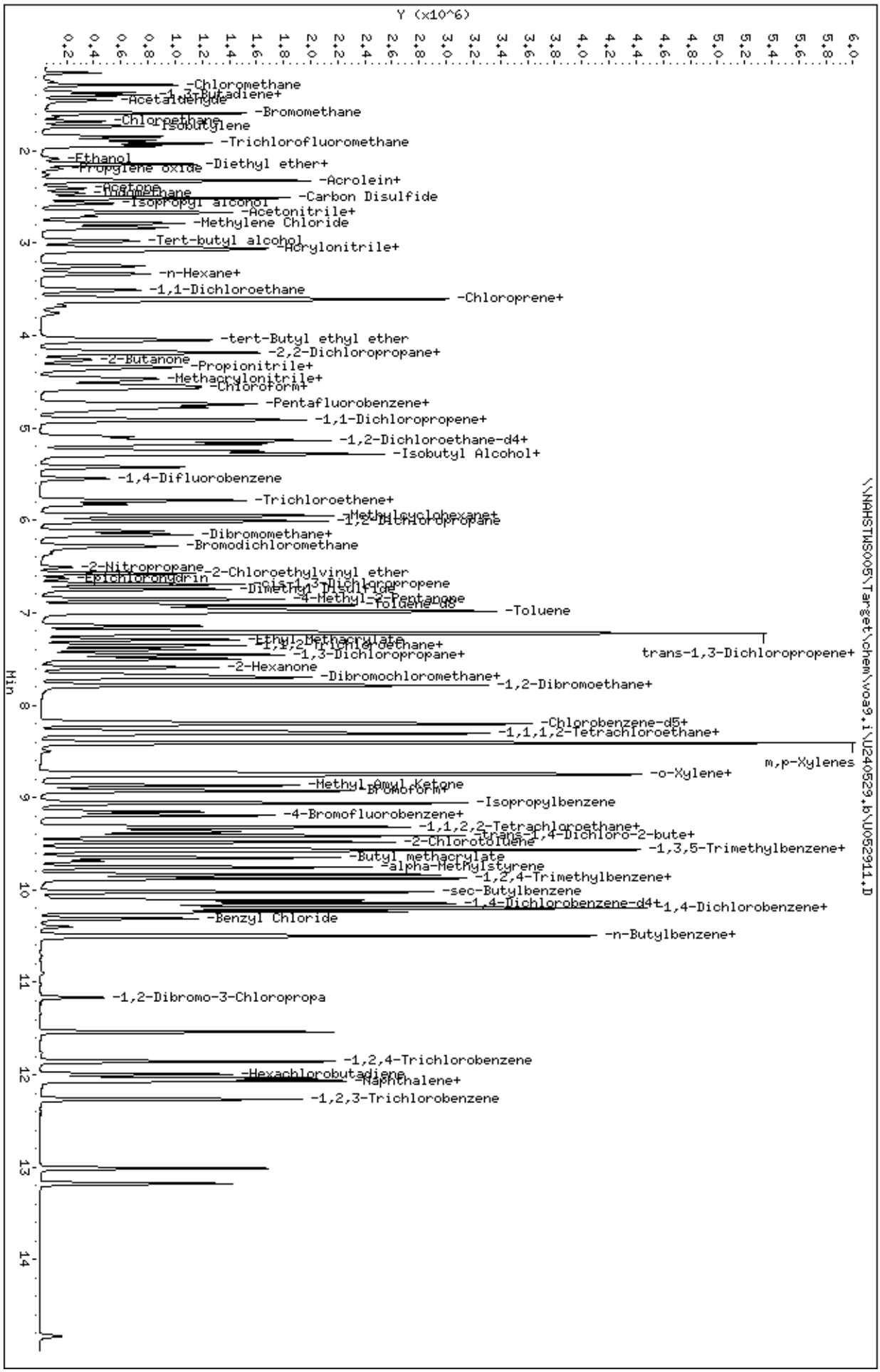
163 Butyl methacrylate	41	9.647	9.647 (0.949)	536821	200.000	239.21(A)
159 Propylene oxide	43	2.191	2.191 (0.455)	68450	400.000	398.51(A)

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052911.D Page 4
Report Date: 07-Jun-2024 10:54

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
203 2-Ethylhexyl Acrylate	55	12.039	12.039	(1.184)	626320	200.000	183.58

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.



Data File: \\NAHSTWS005\Target\chem\voa9,i\U240529,b\U052911,D
Date : 29-MAY-2024 13:53
Client ID: VSTD200
Sample Info: VSTD200;VSTD200;1;10
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9,i
Operator: FT
Column diameter: 0.18

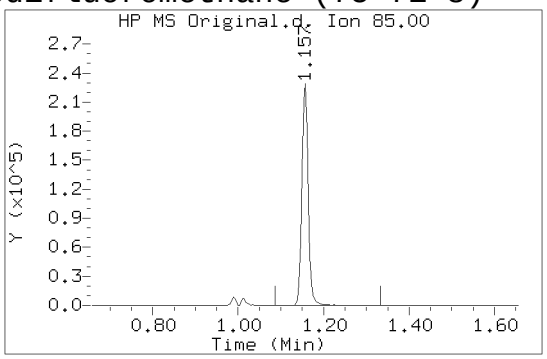
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Inj Date : 29-MAY-2024 13:53
InstruID : VOA9.i
LabSampID : VSTD200

Dichlorodifluoromethane (75-71-8)

Reason Code:

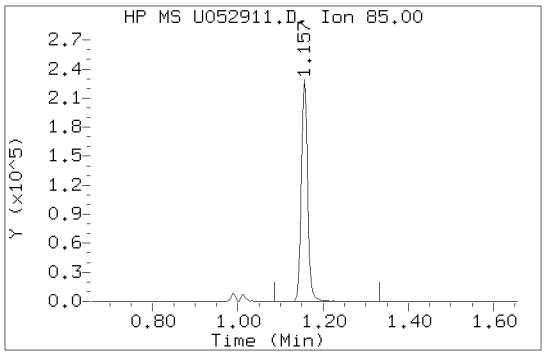
BEFORE

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85
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240139
HEIGHT
228975
06-Jun-2024
17:16
s
zaid



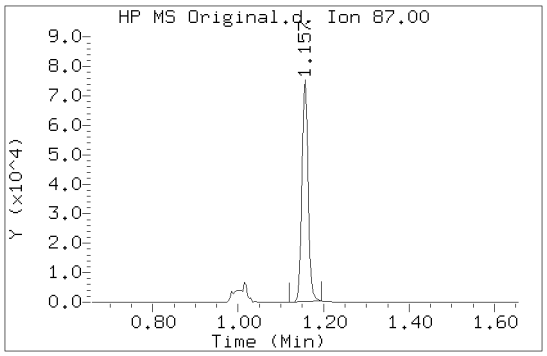
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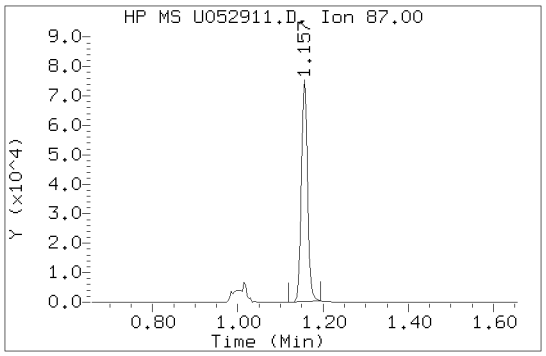
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06-Jun-2024
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zaid



AFTER

MASS
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10:36

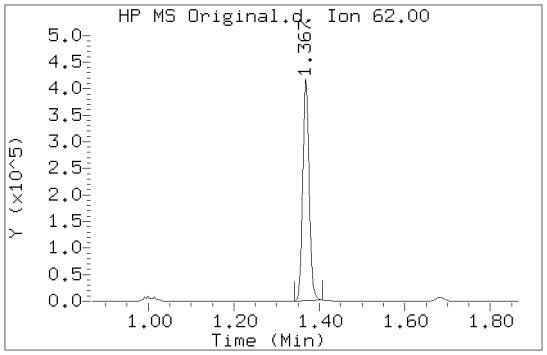


Vinyl Chloride (75-01-4)

Reason Code:

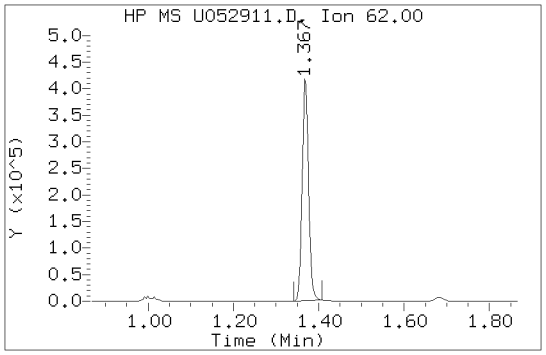
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06-Jun-2024
17:16
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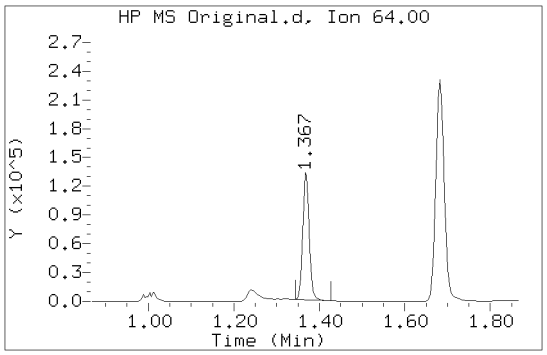
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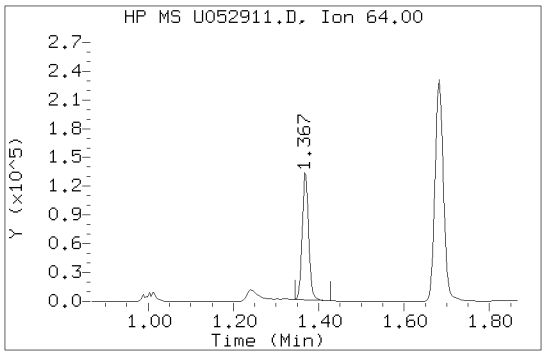
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132455
06-Jun-2024
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zaid



AFTER

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HEIGHT
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07-Jun-2024
10:36

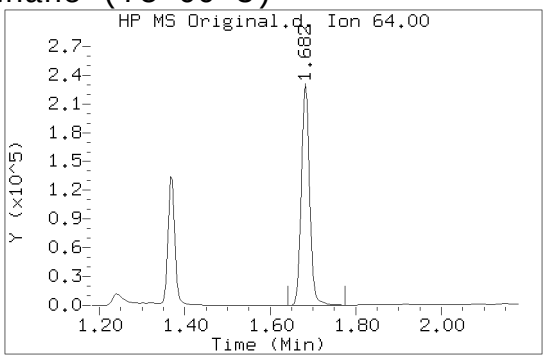


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InstruID : VOA9.i
LabSampID : VSTD200

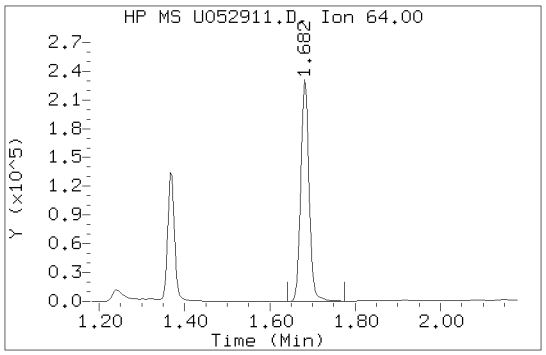
Chloroethane (75-00-3)

Reason Code:

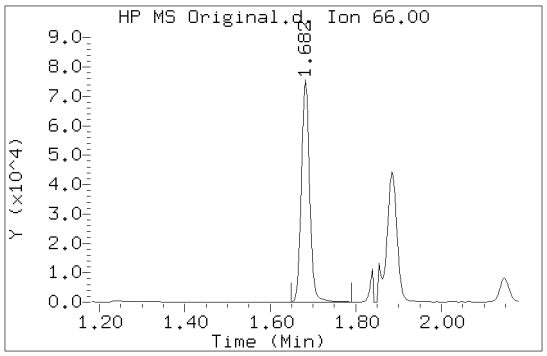
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06-Jun-2024
17:16
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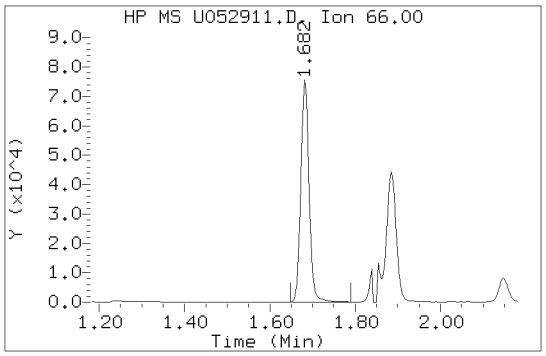
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BEFORE
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06-Jun-2024
17:16
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zaid



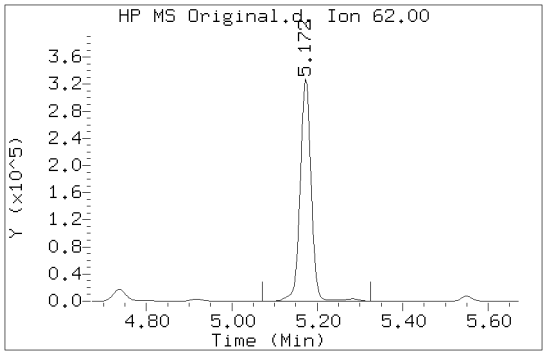
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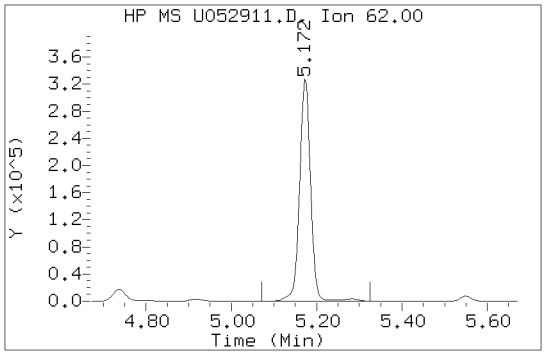
1,2-Dichloroethane (107-06-2)

Reason Code:

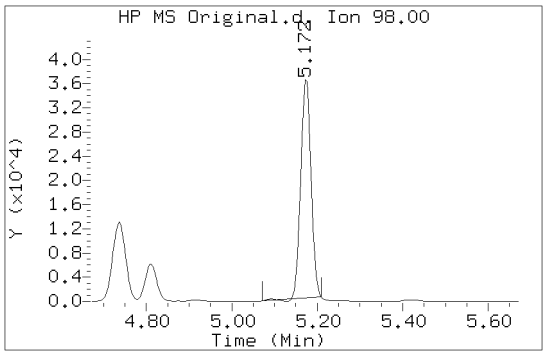
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06-Jun-2024
17:16
s
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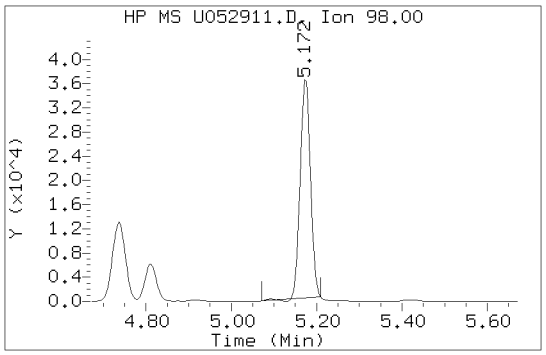
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AREA
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HEIGHT
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07-Jun-2024
10:36



BEFORE
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98
AREA
61706
HEIGHT
36063
06-Jun-2024
17:16
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zaid



AFTER
MASS
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61706
HEIGHT
36063
07-Jun-2024
10:36

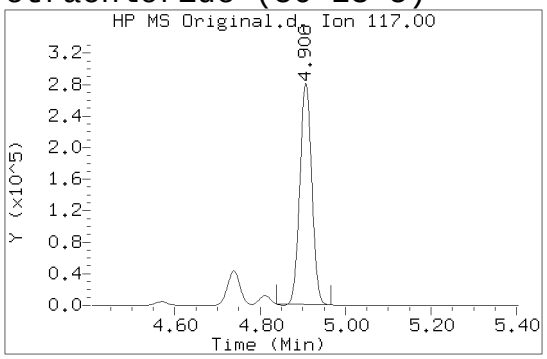


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Inj Date : 29-MAY-2024 13:53
InstruID : VOA9.i
LabSampID : VSTD200

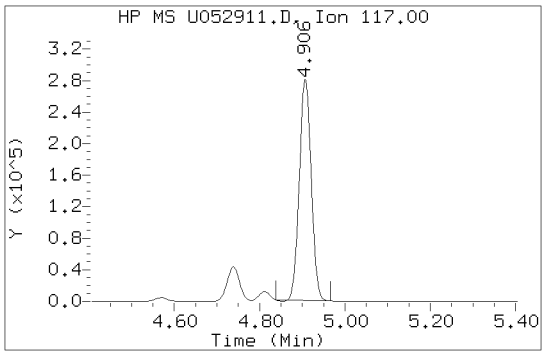
Carbon Tetrachloride (56-23-5)

Reason Code:

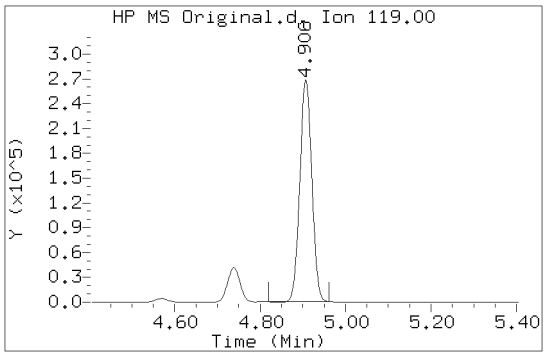
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HEIGHT
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06-Jun-2024
17:16
s
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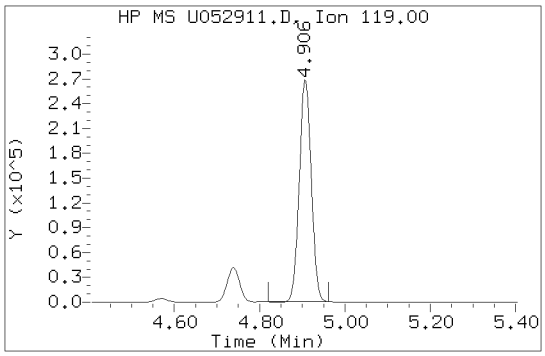
AFTER
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07-Jun-2024
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BEFORE
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06-Jun-2024
17:16
s
zaid



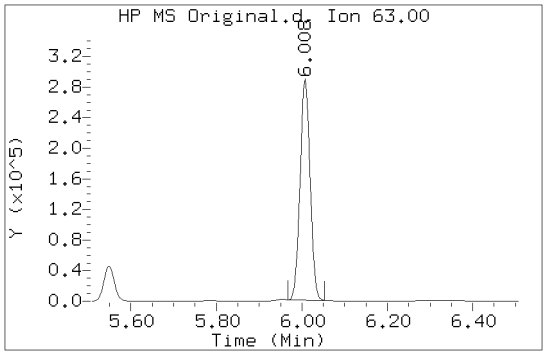
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07-Jun-2024
10:36



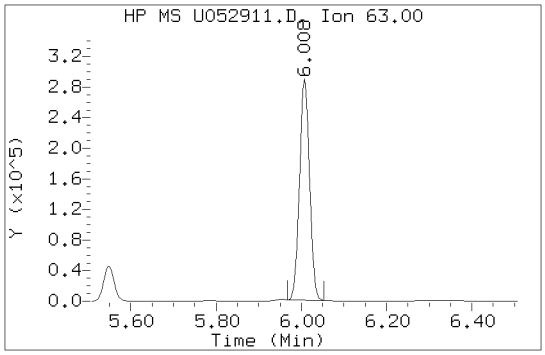
1,2-Dichloropropane (78-87-5)

Reason Code:

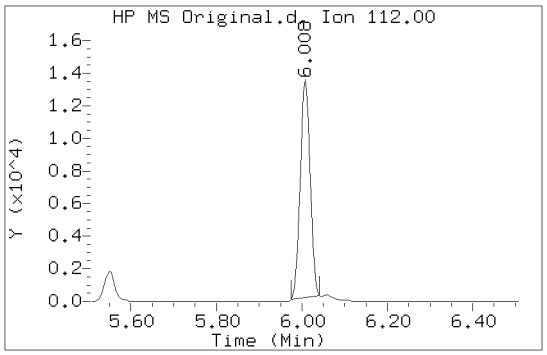
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06-Jun-2024
17:16
s
zaid



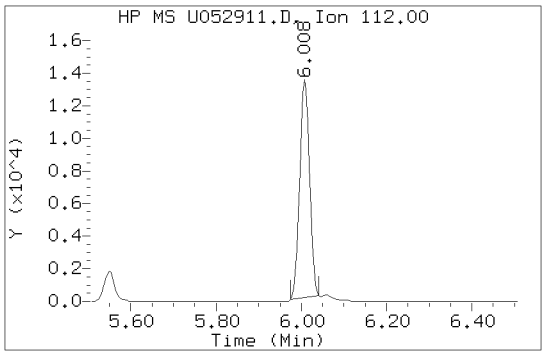
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07-Jun-2024
10:36



BEFORE
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AREA
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HEIGHT
13367
06-Jun-2024
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zaid



AFTER
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21917
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07-Jun-2024
10:36

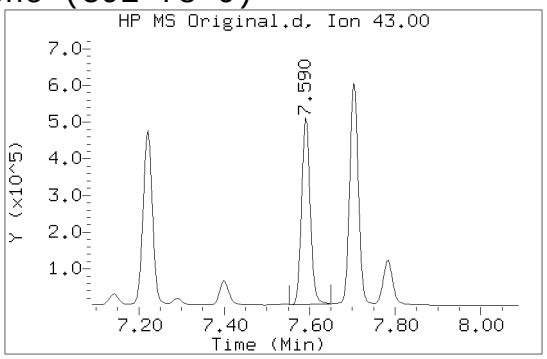


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Inj Date : 29-MAY-2024 13:53
InstruID : VOA9.i
LabSampID : VSTD200

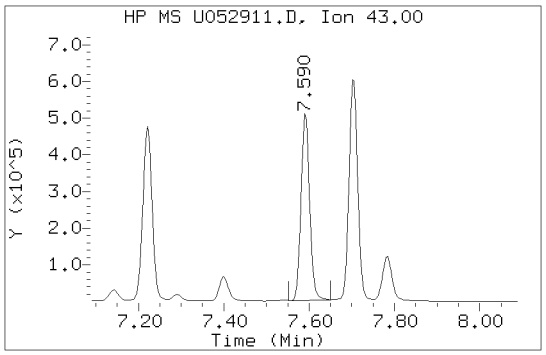
2-Hexanone (591-78-6)

Reason Code:

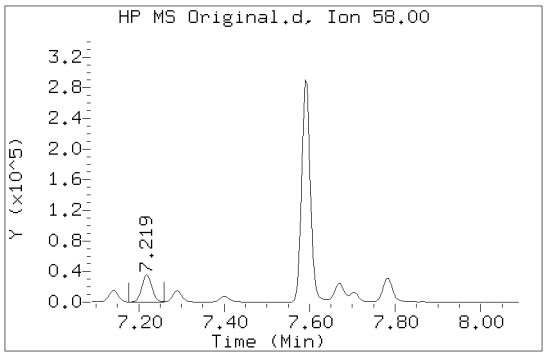
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HEIGHT
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06-Jun-2024
17:16
s
zaid



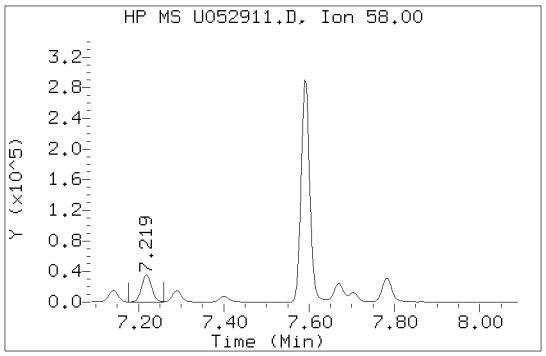
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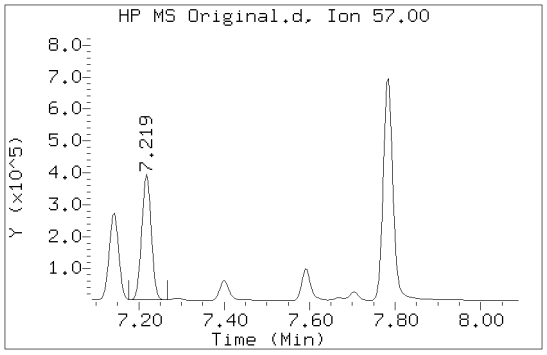
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06-Jun-2024
17:16
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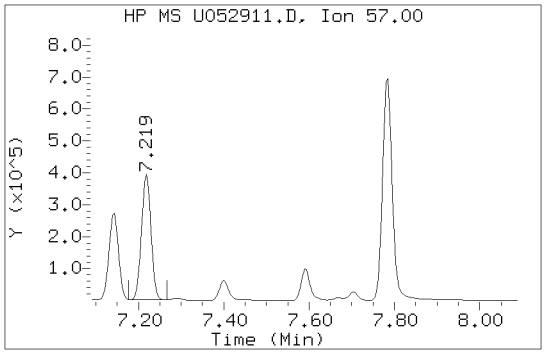
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07-Jun-2024
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BEFORE
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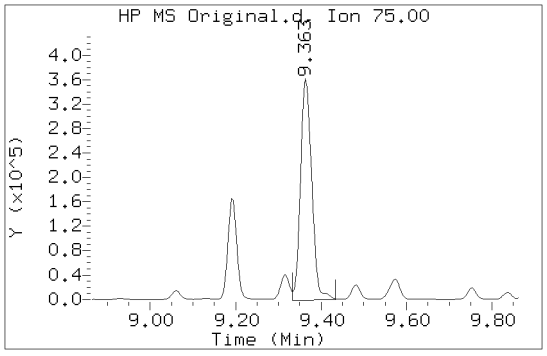
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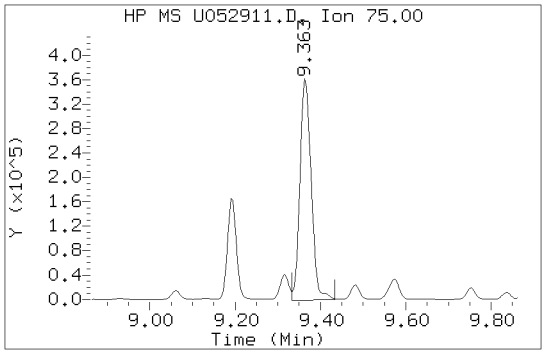
1,2,3-Trichloropropane (96-18-4)

Reason Code:

BEFORE
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06-Jun-2024
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AFTER
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07-Jun-2024
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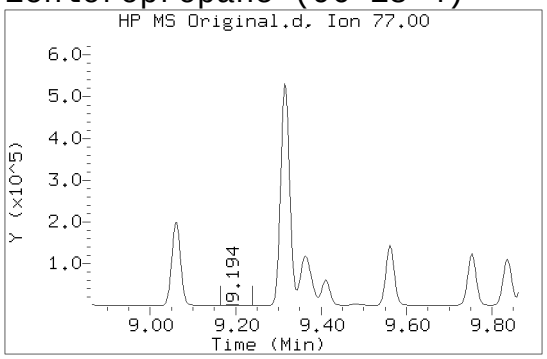


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Inj Date : 29-MAY-2024 13:53
InstruID : VOA9.i
LabSampID : VSTD200

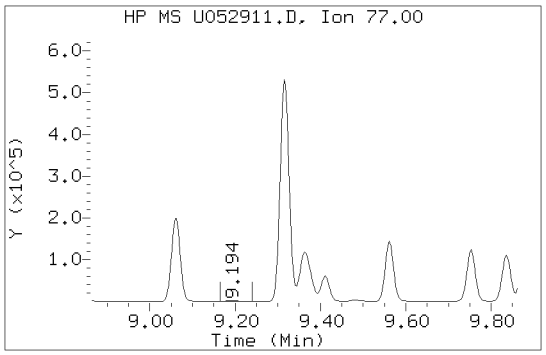
1,2,3-Trichloropropane (96-18-4)

Reason Code:

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AREA
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06-Jun-2024
17:16
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zaid



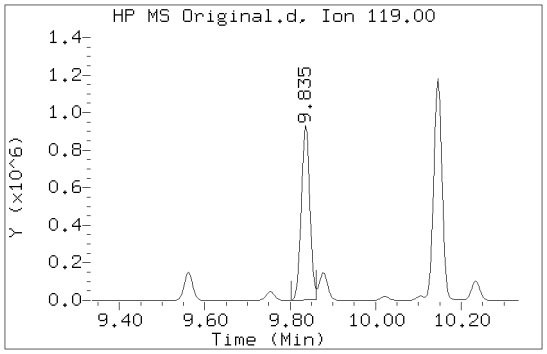
AFTER
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AREA
3463
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2051
07-Jun-2024
10:36



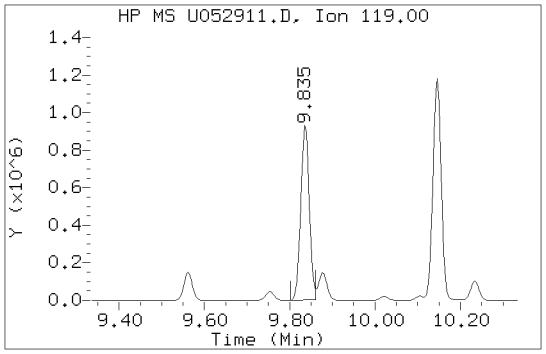
tert-Butylbenzene (98-06-6)

Reason Code:

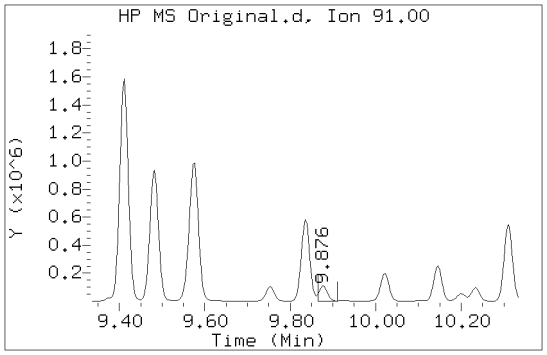
BEFORE
MASS
119
AREA
1330175
HEIGHT
930582
06-Jun-2024
17:16
s
zaid



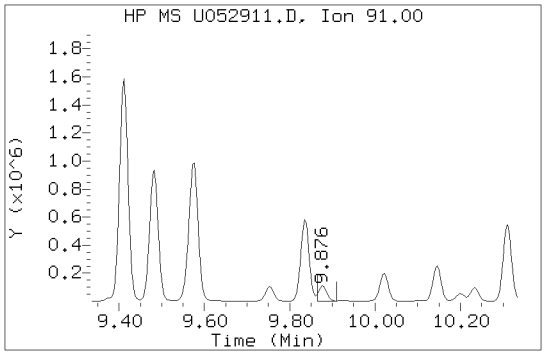
AFTER
MASS
119
AREA
1330175
HEIGHT
930582
07-Jun-2024
10:36



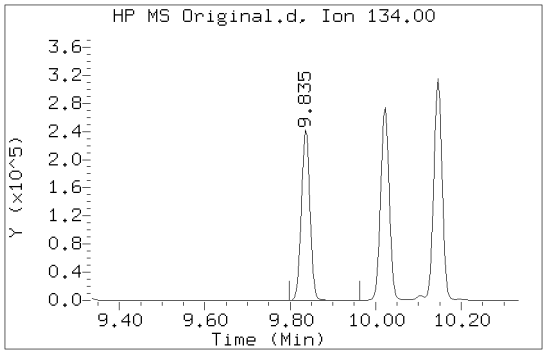
BEFORE
MASS
91
AREA
142300
HEIGHT
108711
06-Jun-2024
17:16
s
zaid



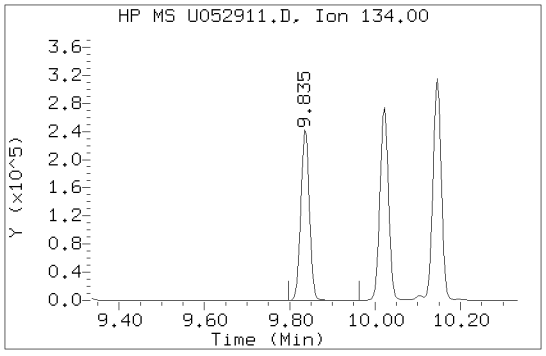
AFTER
MASS
91
AREA
142300
HEIGHT
108711
07-Jun-2024
10:36



BEFORE
MASS
134
AREA
347070
HEIGHT
242376
06-Jun-2024
17:16
s
zaid



AFTER
MASS
134
AREA
347070
HEIGHT
242376
07-Jun-2024
10:36



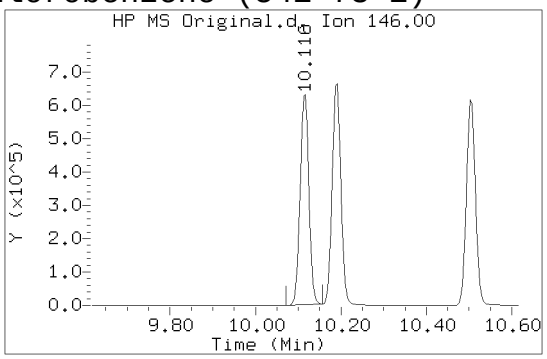
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052911.D
Inj Date : 29-MAY-2024 13:53
InstruID : VOA9.i
LabSampID : VSTD200

1,3-Dichlorobenzene (541-73-1)

Reason Code:

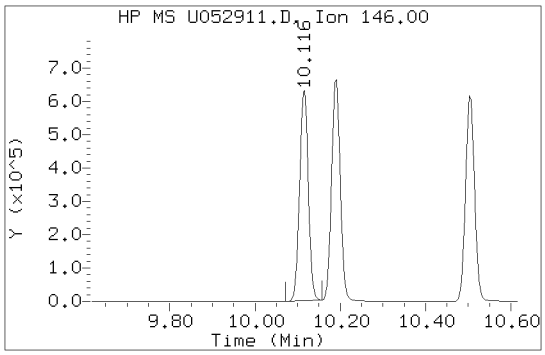
BEFORE

MASS
146
AREA
912530
HEIGHT
630765
06-Jun-2024
17:16
s
zaid



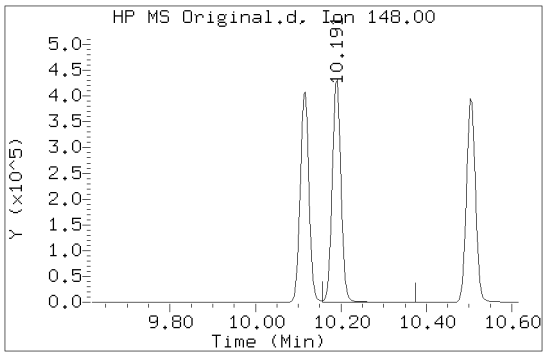
AFTER

MASS
146
AREA
912530
HEIGHT
630765
07-Jun-2024
10:36



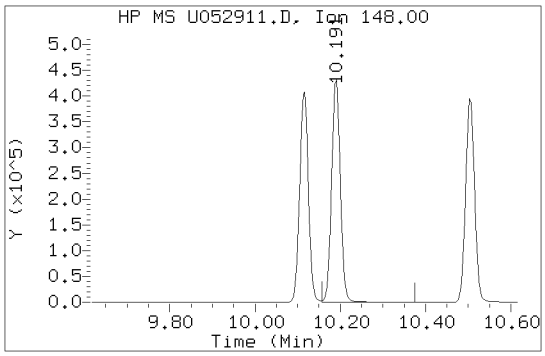
BEFORE

MASS
148
AREA
613080
HEIGHT
431210
06-Jun-2024
17:16
s
zaid



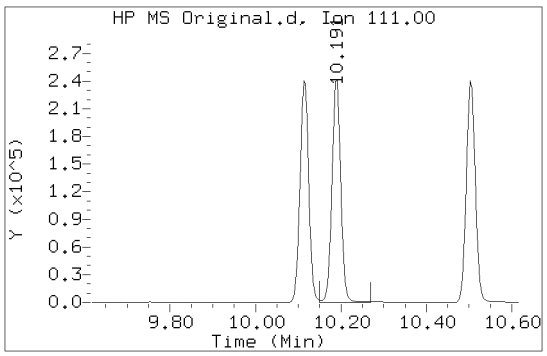
AFTER

MASS
148
AREA
613080
HEIGHT
431210
07-Jun-2024
10:36



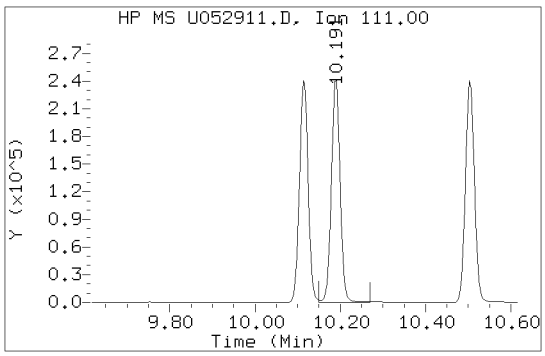
BEFORE

MASS
111
AREA
343411
HEIGHT
240337
06-Jun-2024
17:16
s
zaid



AFTER

MASS
111
AREA
343411
HEIGHT
240337
07-Jun-2024
10:36

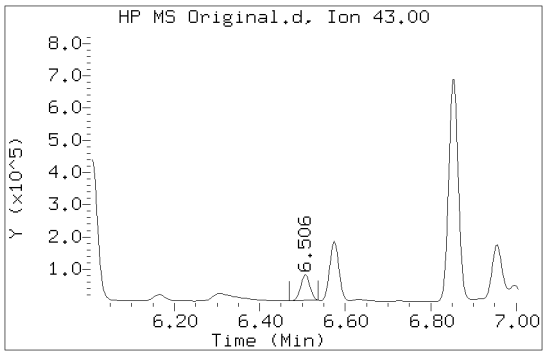


2-Nitropropane (79-46-9)

Reason Code:

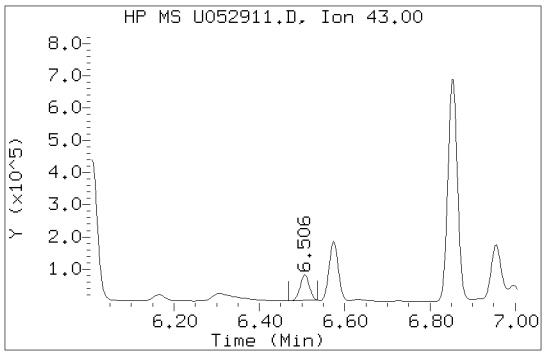
BEFORE

MASS
43
AREA
122639
HEIGHT
80740
06-Jun-2024
17:16
s
zaid



AFTER

MASS
43
AREA
122639
HEIGHT
80740
07-Jun-2024
10:36



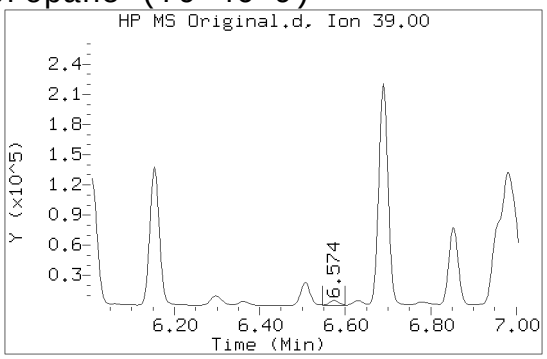
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052911.D
Inj Date : 29-MAY-2024 13:53
InstruID : VOA9.i
LabSampID : VSTD200

2-Nitropropane (79-46-9)

Reason Code:

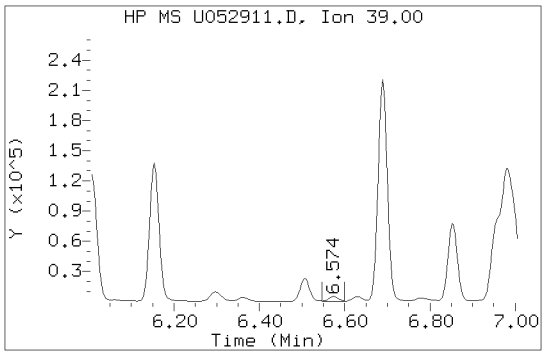
BEFORE

MASS
39
AREA
6637
HEIGHT
4713
06-Jun-2024
17:16
s
zaid



AFTER

MASS
39
AREA
6637
HEIGHT
4713
07-Jun-2024
10:36

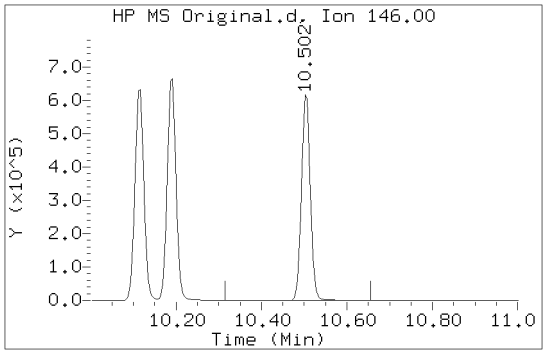


1,2-Dichlorobenzene (95-50-1)

Reason Code:

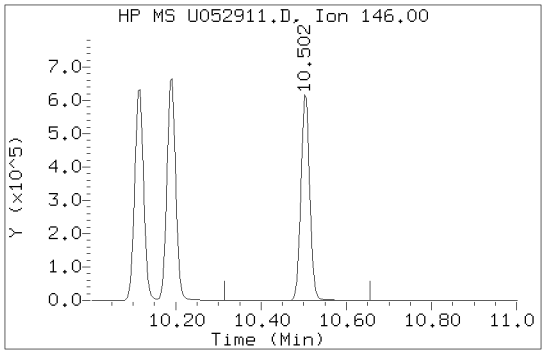
BEFORE

MASS
146
AREA
905419
HEIGHT
616831
06-Jun-2024
17:16
s
zaid



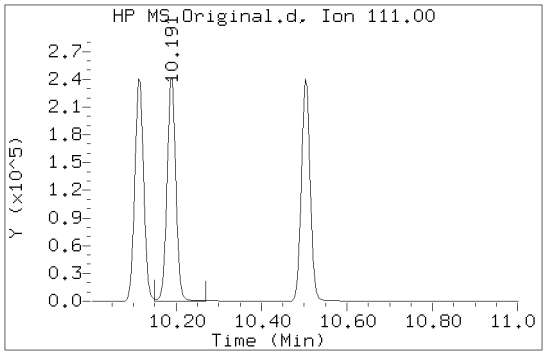
AFTER

MASS
146
AREA
905419
HEIGHT
616831
07-Jun-2024
10:36



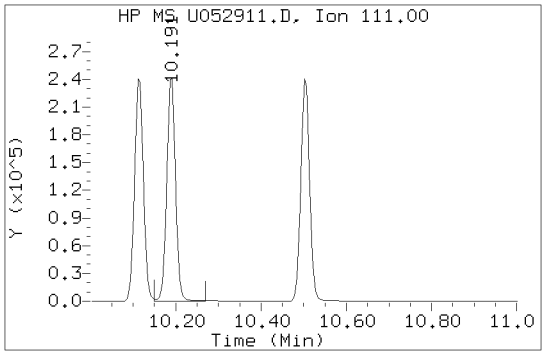
BEFORE

MASS
111
AREA
343411
HEIGHT
240337
06-Jun-2024
17:16
s
zaid



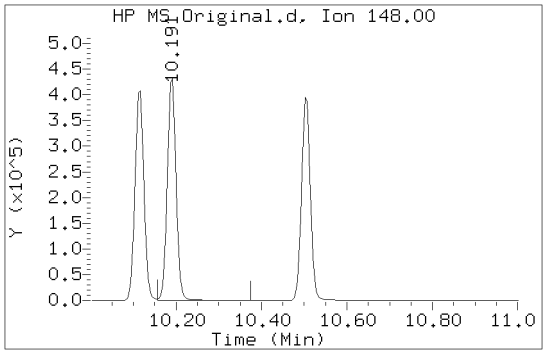
AFTER

MASS
111
AREA
343411
HEIGHT
240337
07-Jun-2024
10:36



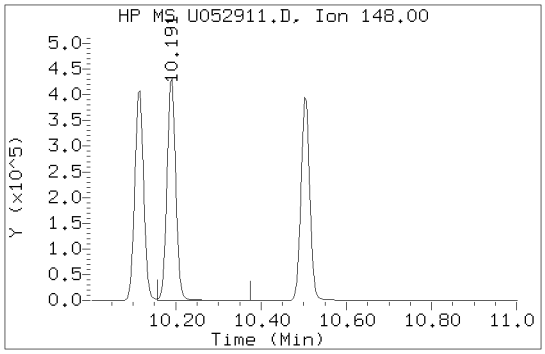
BEFORE

MASS
148
AREA
613080
HEIGHT
431210
06-Jun-2024
17:16
s
zaid



AFTER

MASS
148
AREA
613080
HEIGHT
431210
07-Jun-2024
10:36

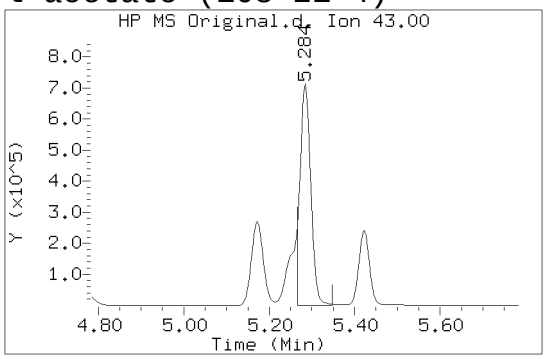


Data File : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052911.D
Inj Date : 29-MAY-2024 13:53
InstruID : VOA9.i
LabSampID : VSTD200

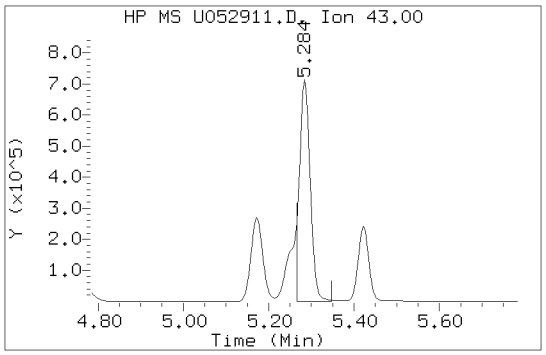
Isopropyl acetate (108-21-4)

Reason Code:

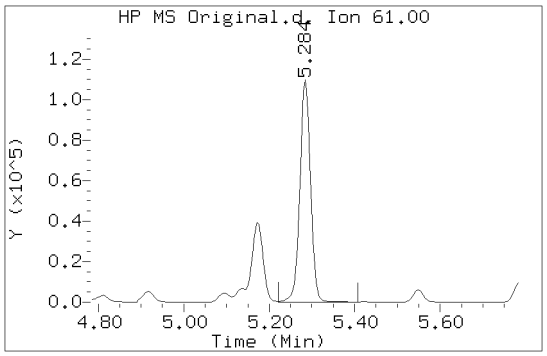
BEFORE
MASS
43
AREA
1268855
HEIGHT
713046
06-Jun-2024
17:16
s
zaid



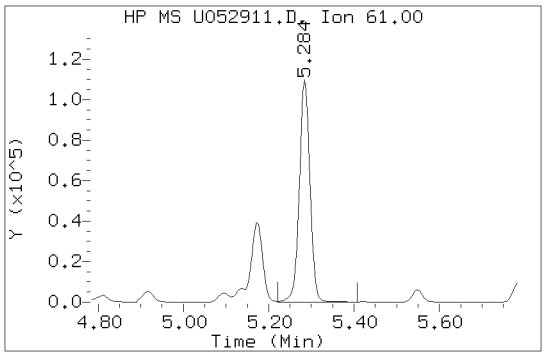
AFTER
MASS
43
AREA
1268855
HEIGHT
713046
07-Jun-2024
10:36



BEFORE
MASS
61
AREA
193741
HEIGHT
109671
06-Jun-2024
17:16
s
zaid



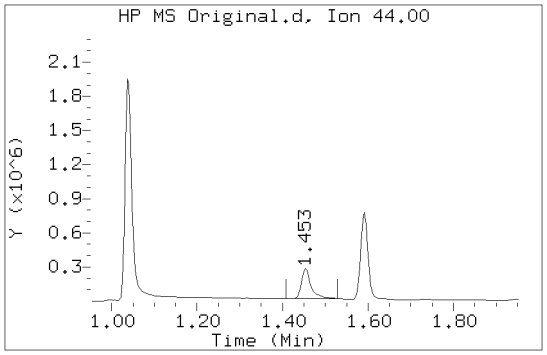
AFTER
MASS
61
AREA
193741
HEIGHT
109671
07-Jun-2024
10:36



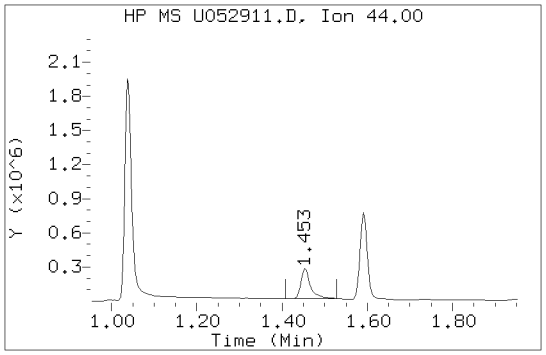
Acetaldehyde (75-07-0)

Reason Code:

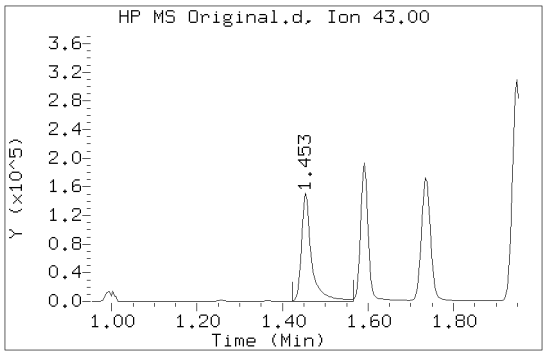
BEFORE
MASS
44
AREA
417509
HEIGHT
267534
06-Jun-2024
17:16
s
zaid



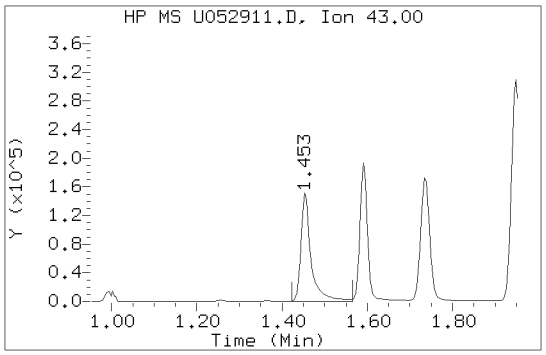
AFTER
MASS
44
AREA
417509
HEIGHT
267534
07-Jun-2024
10:36



BEFORE
MASS
43
AREA
253392
HEIGHT
151424
06-Jun-2024
17:16
s
zaid



AFTER
MASS
43
AREA
253392
HEIGHT
151424
07-Jun-2024
10:36



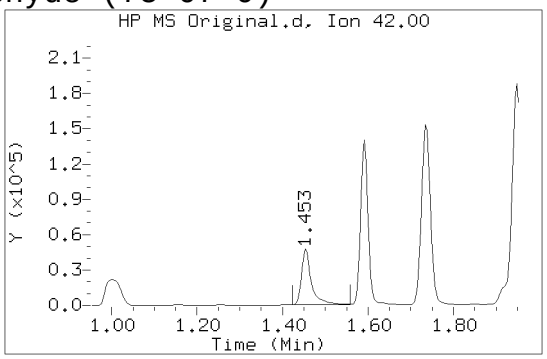
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052911.D
Inj Date : 29-MAY-2024 13:53
InstruID : VOA9.i
LabSampID : VSTD200

Acetaldehyde (75-07-0)

Reason Code:

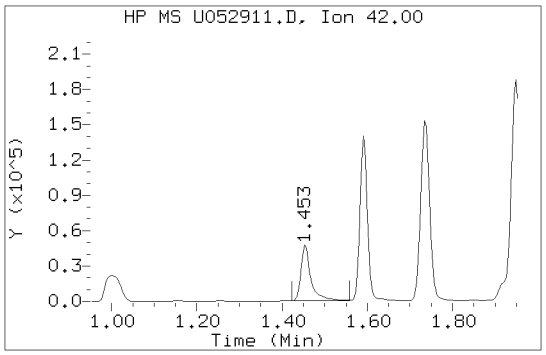
BEFORE

MASS
42
AREA
78584
HEIGHT
47416
06-Jun-2024
17:16
s
zaid



AFTER

MASS
42
AREA
78584
HEIGHT
47416
07-Jun-2024
10:36

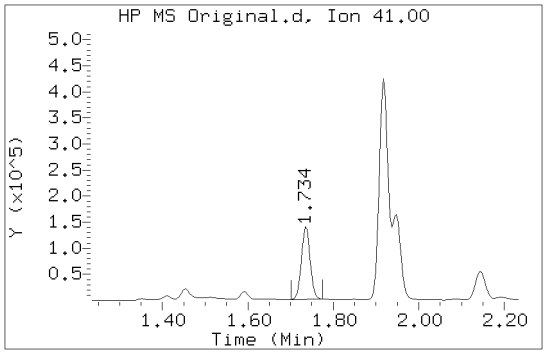


Isobutylene (115-11-7)

Reason Code:

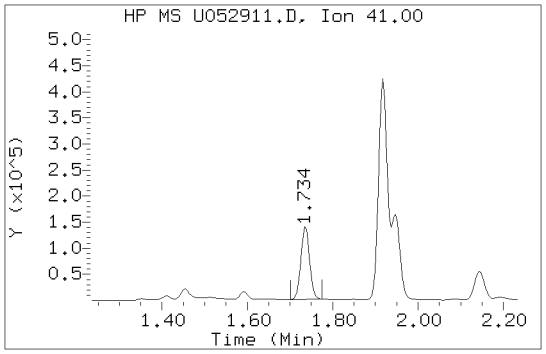
BEFORE

MASS
41
AREA
201782
HEIGHT
138808
06-Jun-2024
17:16
s
zaid



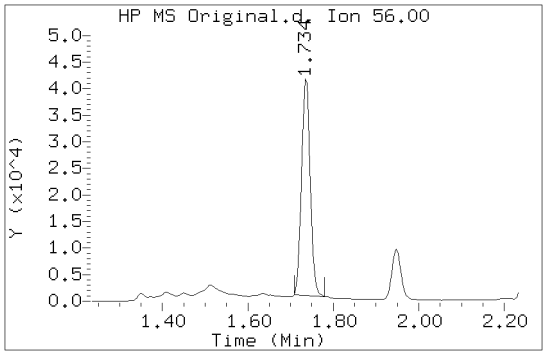
AFTER

MASS
41
AREA
201782
HEIGHT
138808
07-Jun-2024
10:36



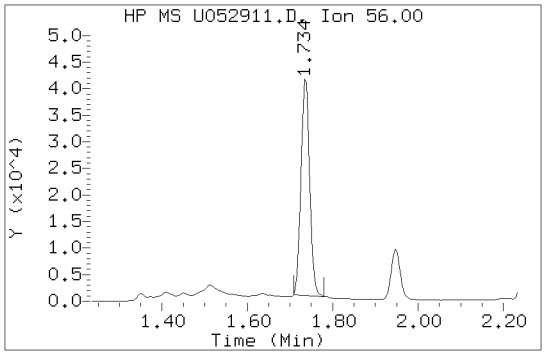
BEFORE

MASS
56
AREA
58944
HEIGHT
40729
06-Jun-2024
17:16
s
zaid



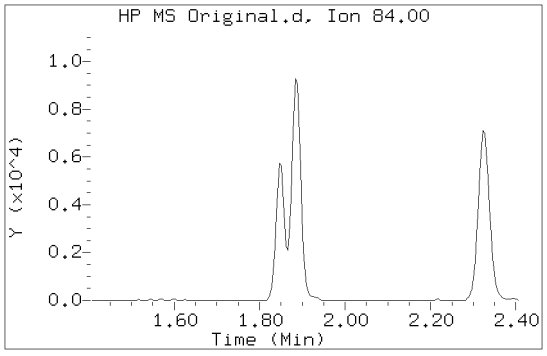
AFTER

MASS
56
AREA
58944
HEIGHT
40729
07-Jun-2024
10:36



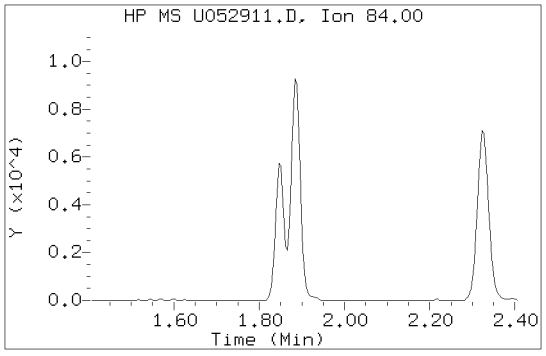
BEFORE

MASS
84
AREA
0
HEIGHT
0
06-Jun-2024
17:16
s
zaid



AFTER

MASS
84
AREA
0
HEIGHT
0
07-Jun-2024
10:36



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052913.D Page 1
Report Date: 07-Jun-2024 10:54

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052913.D
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 29-MAY-2024 14:36
Operator : FT Inst ID: VOA9.i
Smp Info : BFB;BFB;3;;BFB
Misc Info : V9;WATER;0;1;
Comment :
Method : \\nahstws005\Target\chem\voa9.i\U240529.b\bfb.m
Meth Date : 27-Jan-2023 08:08 apoluri Quant Type: ISTD
Cal Date : 30-MAR-2018 18:09 Cal File: U033003.d
Als bottle: 13 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: WATER

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)		
RT	EXP RT	REL RT	MASS	RESPONSE			TARGET RANGE	RATIO
1 bfb						CAS #: 460-00-4		
9.194	9.180	(0.000)	95	80184			0.00- 100.00	100.00
9.194	9.180	(0.000)	50	14653			15.00- 40.00	18.27
9.194	9.180	(0.000)	75	37744			30.00- 60.00	47.07
9.194	9.180	(0.000)	96	5567			5.00- 9.00	6.94
9.194	9.180	(0.000)	173	0	0.0	0.0	0.00- 2.00	0.00
9.194	9.180	(0.000)	174	70080			50.00- 0.00	87.40
9.194	9.180	(0.000)	175	5888			5.00- 9.00	8.40
9.194	9.180	(0.000)	176	67896			95.00- 101.00	96.88
9.194	9.180	(0.000)	177	4659			5.00- 9.00	6.86

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	18.27
75	30.00 - 60.00% of mass 95	47.07
96	5.00 - 9.00% of mass 95	6.94
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	87.40
175	5.00 - 9.00% of mass 174	7.34 (8.40)
176	95.00 - 101.00% of mass 174	84.68 (96.88)
177	5.00 - 9.00% of mass 176	5.81 (6.86)

Data File: U052913.D
Spectrum: Scan 2293 (9.19)
Location of Maximum: 95.05
Number of points: 88

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	837	62.00	3407	92.00	2285	141.70	92
37.00	3754	63.00	2359	93.00	3358	142.90	755
38.10	3490	64.00	375	94.00	9391	145.10	69
39.00	1325	65.10	160	95.00	80184	145.80	117
40.00	225	68.00	7398	96.00	5567	146.80	58
41.10	73	69.00	7501	97.00	155	147.80	172
42.10	97	70.00	652	103.80	312	149.00	73
43.10	106	71.10	56	104.90	124	149.90	82
44.00	532	72.00	533	105.90	254	152.90	85
45.00	625	73.00	3438	106.80	86	154.80	181
46.00	90	74.00	12608	114.70	53	156.80	112
47.00	1201	75.00	37744	116.00	247	158.90	71
47.90	556	76.00	3465	116.90	412	161.00	68
49.00	3209	77.00	498	117.80	261	171.90	297
50.00	14653	77.90	369	118.90	327	173.90	70080
51.00	4685	78.90	1685	123.90	59	175.00	5888
52.00	258	80.00	552	127.80	289	175.90	67896
55.00	282	80.90	1857	128.90	145	176.90	4659
56.00	1133	81.90	432	129.90	369	177.80	137
57.00	1985	86.10	166	130.90	121		
57.90	135	87.00	3814	134.90	131		
60.00	795	87.90	3431	136.80	126		
61.00	3394	91.00	255	141.00	713		

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052913.D Page 1

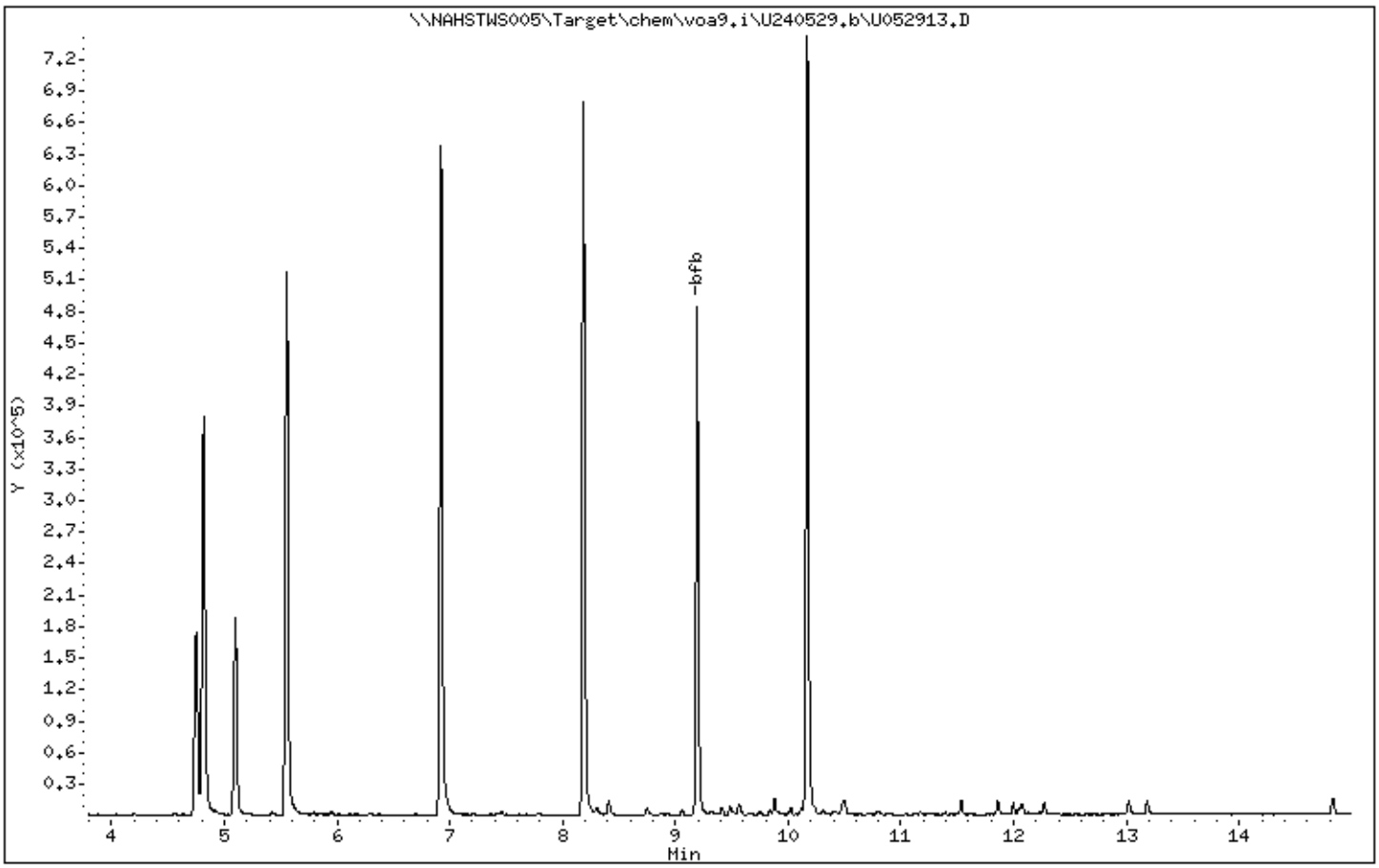
Date : 29-MAY-2024 14:36

Client ID: BFB Instrument: VOA9.i

Sample Info: BFB;BFB;3;;BFB

Volume Injected (uL): 2.0 Operator: FT

Column phase: DB624 Column diameter: 0.25



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052913.D

Date : 29-MAY-2024 14:36

Client ID: BFB

Instrument: VOA9.i

Sample Info: BFB;BFB;3;;BFB

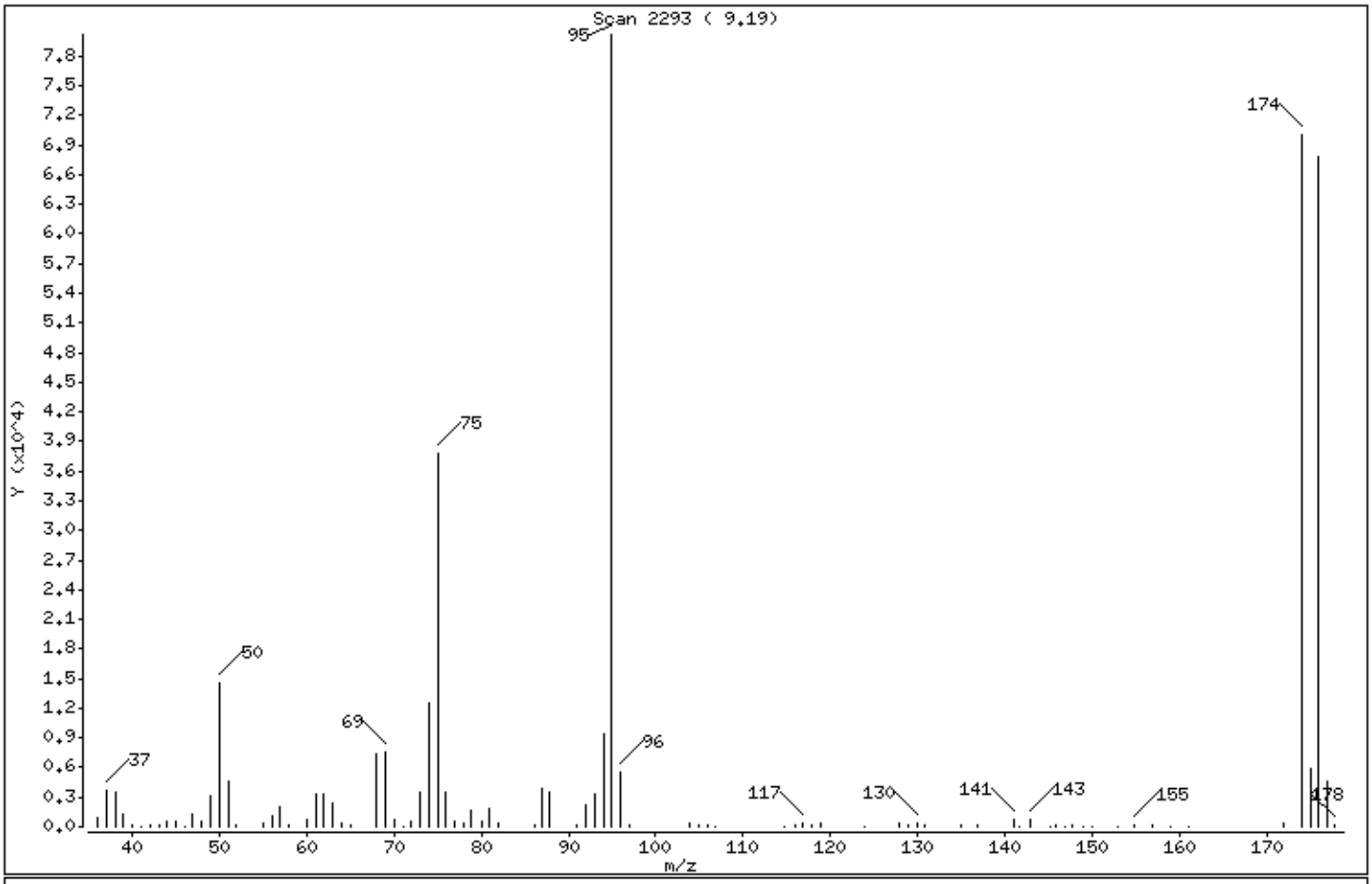
Volume Injected (uL): 2.0

Operator: FT

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	18.27
75	30.00 - 60.00% of mass 95	47.07
96	5.00 - 9.00% of mass 95	6.94
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	87.40
175	5.00 - 9.00% of mass 174	7.34 (8.40)
176	95.00 - 101.00% of mass 174	84.68 (96.88)
177	5.00 - 9.00% of mass 176	5.81 (6.86)

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052913.D Page 3

Date : 29-MAY-2024 14:36

Client ID: BFB Instrument: VOA9.i

Sample Info: BFB;BFB;3;;BFB

Volume Injected (uL): 2.0 Operator: FT

Column phase: DB624 Column diameter: 0.25

Data File: U052913.D
Spectrum: Scan 2293 (9.19)
Location of Maximum: 95.05
Number of points: 88

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	837	62.00	3407	92.00	2285	141.70	92
37.00	3754	63.00	2359	93.00	3358	142.90	755
38.10	3490	64.00	375	94.00	9391	145.10	69
39.00	1325	65.10	160	95.00	80184	145.80	117
40.00	225	68.00	7398	96.00	5567	146.80	58
41.10	73	69.00	7501	97.00	155	147.80	172
42.10	97	70.00	652	103.80	312	149.00	73
43.10	106	71.10	56	104.90	124	149.90	82
44.00	532	72.00	533	105.90	254	152.90	85
45.00	625	73.00	3438	106.80	86	154.80	181
46.00	90	74.00	12608	114.70	53	156.80	112
47.00	1201	75.00	37744	116.00	247	158.90	71
47.90	556	76.00	3465	116.90	412	161.00	68
49.00	3209	77.00	498	117.80	261	171.90	297
50.00	14653	77.90	369	118.90	327	173.90	70080
51.00	4685	78.90	1685	123.90	59	175.00	5888
52.00	258	80.00	552	127.80	289	175.90	67896
55.00	282	80.90	1857	128.90	145	176.90	4659
56.00	1133	81.90	432	129.90	369	177.80	137
57.00	1985	86.10	166	130.90	121		
57.90	135	87.00	3814	134.90	131		
60.00	795	87.90	3431	136.80	126		
61.00	3394	91.00	255	141.00	713		

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052914.D Page 1
Report Date: 07-Jun-2024 10:54

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052914.D
Lab Smp Id: VSTD050 Client Smp ID: VSTD050
Inj Date : 29-MAY-2024 14:58
Operator : FT Inst ID: VOA9.i
Smp Info : VSTD050;VSTD050;2;;ICV
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240529.b\8260C.m
Meth Date : 07-Jun-2024 10:14 r.patel Quant Type: ISTD
Cal Date : 29-MAY-2024 13:53 Cal File: U052911.D
Als bottle: 14 QC Sample: METHSPIKE
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14

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	4.815	4.811	(1.000)	287772	50.0000	
2	Dichlorodifluoromethane	85	1.164	1.156	(0.242)	53719	50.0741	50.07
3	Chloromethane	50	1.295	1.288	(0.269)	177348	46.1613	46.16
4	Propionitrile	54	4.339	4.339	(0.901)	160927	509.455	509.45
5	Vinyl Chloride	62	1.378	1.366	(0.286)	102543	47.1872	47.18
6	Bromomethane	94	1.610	1.595	(0.334)	48298	50.8897	50.88
7	Chloroethane	64	1.696	1.681	(0.352)	77244	50.7861	50.78
8	Trichlorofluoromethane	101	1.895	1.884	(0.394)	128651	49.8529	49.85
9	Acrolein	56	2.266	2.259	(0.471)	10741	106.051	106.05
10	Acetone	43	2.412	2.405	(0.501)	81278	93.8084	93.80
11	1,1-Dichloroethene	96	2.334	2.322	(0.485)	87731	46.2461	46.24
12	Isobutyl Alcohol	43	5.284	5.284	(1.097)	316104	1028.57	1028.56
13	Acetonitrile	39	2.671	2.663	(0.555)	109638	469.676	469.67
14	Allyl Chloride	41	2.675	2.667	(0.556)	275022	48.7552	48.75
15	Iodomethane	142	2.469	2.457	(0.513)	50139	113.942	113.94
16	Acrylonitrile	53	3.068	3.061	(0.637)	80768	101.029	101.02
17	Methylene Chloride	84	2.795	2.783	(0.580)	108574	48.8217	48.82
18	Methyl tert-butyl ether	73	3.083	3.076	(0.640)	265782	49.8493	49.84
19	Carbon Disulfide	76	2.517	2.510	(0.523)	494682	92.9567	92.95
20	trans-1,2-Dichloroethene	96	3.057	3.050	(0.635)	95093	44.3300	44.32
21	Vinyl Acetate	43	4.343	4.339	(0.902)	125248	98.7622	98.76

22 1,1-Dichloroethane	63	3.511	3.507 (0.729)	178078	43.2139	43.21
23 Chloroprene	53	3.608	3.601 (0.749)	147641	48.8606	48.86

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052914.D Page 2
Report Date: 07-Jun-2024 10:54

			QUANT SIG					CONCENTRATIONS ON-COLUMN	CONCENTRATIONS FINAL
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/l)	(ug/l)
	24	2-Butanone	43	4.268	4.260	(0.886)	119814	93.1664	93.16
	25	Methacrylonitrile	41	4.497	4.489	(0.934)	67231	51.0896	51.08(a)
	26	2,2-Dichloropropane	77	4.182	4.174	(0.868)	124372	45.9833	45.98
	27	cis-1,2-Dichloroethene	96	4.197	4.189	(0.872)	116144	43.8397	43.83
	28	Chloroform	83	4.572	4.568	(0.949)	183606	44.6237	44.62
	29	Bromochloromethane	128	4.470	4.463	(0.928)	58378	47.8853	47.88
$	30	Dibromofluoromethane	113	4.748	4.744	(0.986)	90302	49.3912	49.39
	31	1,1,1-Trichloroethane	97	4.740	4.736	(0.984)	143272	49.7227	49.72
	32	1,1-Dichloropropene	75	4.920	4.916	(0.887)	139812	46.4772	46.47
	33	1,2-Dichloroethane	62	5.175	5.171	(0.932)	145293	47.0475	47.04
	34	Carbon Tetrachloride	117	4.909	4.905	(0.885)	116894	49.6058	49.60
$	35	1,2-Dichloroethane-d4	65	5.096	5.093	(1.058)	103550	46.8481	46.84
*	36	1,4-Difluorobenzene	114	5.550	5.550	(1.000)	415329	50.0000	
	37	Benzene	78	5.138	5.134	(0.926)	425847	43.5309	43.53
	38	Trichloroethene	130	5.786	5.786	(1.043)	109914	45.6498	45.64
	39	Bromodichloromethane	83	6.277	6.277	(1.131)	126799	48.1928	48.19
	40	Methyl Methacrylate	41	5.824	5.827	(1.209)	50281	49.8897	49.88
	41	2-Chloroethylvinyl ether	63	6.573	6.573	(1.184)	88566	101.743	101.74
	42	1,2-Dichloropropane	63	6.007	6.007	(1.082)	116276	45.0663	45.06
	43	2-Nitropropane	43	6.506	6.506	(1.351)	26001	52.0149	52.01
	44	Dibromomethane	93	6.120	6.116	(1.103)	68623	45.8011	45.80
	45	4-Methyl-2-Pentanone	43	6.851	6.851	(0.837)	254189	101.311	101.31
	46	cis-1,3-Dichloropropene	75	6.690	6.690	(1.205)	167905	48.2364	48.23
*	47	Chlorobenzene-d5	117	8.185	8.185	(1.000)	371923	50.0000	
$	48	Toluene-d8	98	6.918	6.918	(0.845)	331791	46.7966	46.79
	49	Ethyl Methacrylate	69	7.289	7.289	(1.313)	149924	46.6672	46.66
	50	Toluene	91	6.978	6.978	(0.853)	439801	43.5628	43.56
	51	trans-1,3-Dichloropropene	75	7.196	7.196	(1.296)	138412	48.5304	48.53
	52	2-Hexanone	43	7.589	7.589	(0.927)	164379	100.641	100.64
	53	1,1,2-Trichloroethane	83	7.353	7.353	(0.898)	86984	49.0304	49.03
	54	1,3-Dichloropropane	76	7.496	7.499	(0.916)	190629	46.3559	46.35
	55	Dibromochloromethane	129	7.690	7.690	(0.940)	106208	48.7380	48.73
	56	Tetrachloroethene	164	7.454	7.454	(0.911)	86044	48.7990	48.79
	57	1,2-Dibromoethane	107	7.784	7.784	(0.951)	106542	47.9871	47.98
	58	1-Chlorohexane	55	8.193	8.196	(1.476)	81326	47.2160	47.21
	59	Chlorobenzene	112	8.208	8.208	(1.003)	284675	44.4106	44.41
	60	1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	101188	49.4682	49.46
	61	Ethylbenzene	106	8.305	8.305	(1.015)	144389	48.7297	48.72
	62	m,p-Xylenes	106	8.406	8.406	(1.027)	368978	96.4503	96.45
	63	o-Xylene	106	8.744	8.744	(1.068)	179337	46.6963	46.69
	64	Styrene	104	8.759	8.759	(1.070)	299869	48.7114	48.71
	66	Bromoform	173	8.916	8.916	(1.089)	68169	48.2034	48.20
	67	Isopropylbenzene	105	9.059	9.059	(1.107)	439282	49.4841	49.48
	68	1,1,2,2-Tetrachloroethane	83	9.325	9.329	(0.917)	153451	45.5754	45.57
$	69	4-Bromofluorobenzene	95	9.190	9.190	(1.123)	122316	47.2842	47.28
*	70	1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	202558	50.0000	
	71	1,2,3-Trichloropropane	75	9.362	9.362	(0.921)	150118	47.5463	47.54(M)
	72	trans-1,4-Dichloro-2-butene	53	9.374	9.377	(1.145)	30164	47.4686	47.46
	73	n-Propylbenzene	91	9.411	9.411	(0.926)	503350	46.1115	46.11
	74	Bromobenzene	156	9.314	9.317	(0.916)	124615	44.7399	44.73
	75	1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	354728	47.7645	47.76
	76	2-Chlorotoluene	91	9.482	9.482	(0.933)	309906	48.7638	48.76

77	4-Chlorotoluene	91	9.572	9.576 (0.941)	355012	45.2957	45.29
78	tert-Butylbenzene	119	9.835	9.835 (0.967)	304126	49.6236	49.62

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052914.D Page 3
Report Date: 07-Jun-2024 10:54

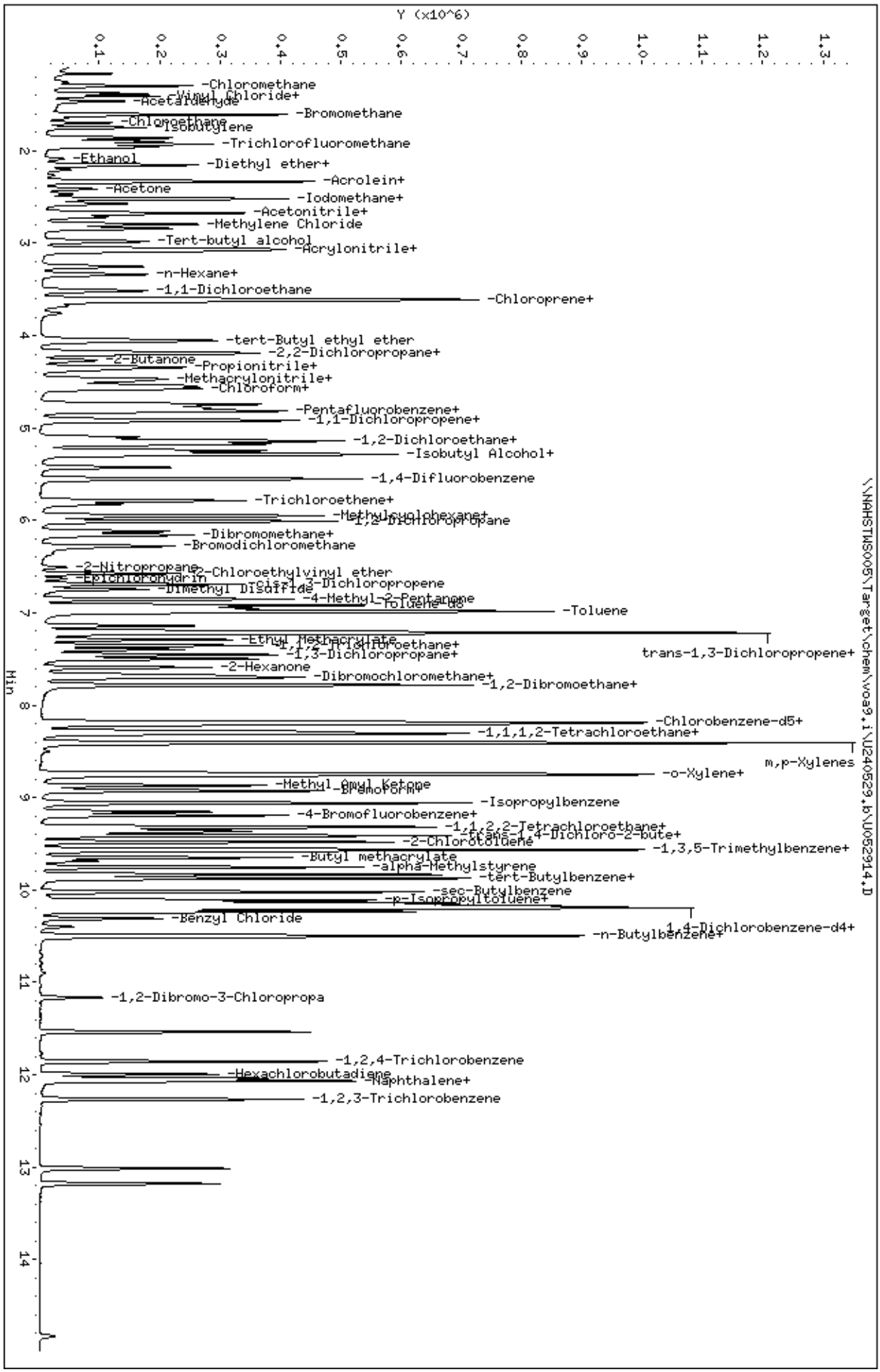
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
79	1,2,4-Trimethylbenzene	105	9.876	9.876	(0.971)	363622	47.5777	47.57
81	sec-Butylbenzene	105	10.018	10.022	(0.985)	408285	49.0860	49.08
82	p-Isopropyltoluene	119	10.146	10.146	(0.998)	359682	49.6230	49.62
83	1,3-Dichlorobenzene	146	10.112	10.116	(0.994)	212984	45.2811	45.28(M)
84	1,4-Dichlorobenzene	146	10.187	10.191	(1.002)	224156	43.0326	43.03
86	Benzyl Chloride	91	10.311	10.311	(1.260)	131578	43.7766	43.77
87	n-Butylbenzene	91	10.491	10.491	(1.032)	308545	47.3013	47.30
88	1,2-Dichlorobenzene	146	10.502	10.502	(1.033)	216164	44.3568	44.35(M)
89	1,2-Dibromo-3-Chloropropane	155	11.166	11.165	(1.098)	21228	49.6795	49.67
90	1,2,4-Trichlorobenzene	180	11.855	11.855	(1.166)	143434	46.7112	46.71
91	Hexachlorobutadiene	225	11.998	11.998	(1.180)	55978	45.4354	45.43
92	Naphthalene	128	12.065	12.065	(1.187)	374407	50.1844	50.18
93	1,2,3-Trichlorobenzene	180	12.268	12.268	(1.206)	135961	47.5293	47.52
146	Methyl acetate	43	2.716	2.708	(0.564)	109893	48.2621	48.26
138	Freon TF	101	2.334	2.326	(0.485)	75696	47.3879	47.38
141	Cyclohexane	56	4.781	4.778	(0.993)	132346	48.3487	48.34
142	Tetrahydrofuran	42	4.545	4.542	(0.944)	42130	102.199	102.19
147	Methylcyclohexane	55	5.947	5.944	(1.072)	247349	48.1996	48.19
135	1,4-Dioxane	88	6.168	6.168	(1.281)	29165	989.088	989.08
132	n-Butanol	56	5.824	5.827	(1.209)	73645	949.984	949.98
136	n-Hexane	57	3.338	3.331	(0.693)	88944	46.4912	46.49
139	Diethyl ether	59	2.146	2.139	(0.446)	75924	50.2503	50.25
148	Tert-butyl alcohol	59	2.978	2.975	(0.619)	211228	1061.03	1061.03
149	Isopropyl alcohol	45	2.574	2.570	(0.534)	163707	1048.72	1048.72
152	Amyl alcohol	42	7.398	7.398	(0.904)	82560	1001.34	1001.33
156	Diisopropyl ether	45	3.623	3.619	(0.752)	324904	44.2190	44.21
162	Butyl acrylate	55	8.733	8.733	(1.067)	188693	47.2660	47.26
187	n-Amyl acetate	43	8.928	8.931	(1.091)	189871	47.0168	47.01
164	Dicyclopentadiene	66	10.198	10.198	(1.003)	461598	44.4310	44.43
166	1,2,3-Trimethylbenzene	105	10.232	10.232	(1.006)	322602	45.7464	45.74
167	Ethanol	45	2.090	2.086	(0.434)	31184	1064.06	1064.06
172	tert-Butyl formate	59	5.246	5.250	(1.090)	220160	96.8522	96.85
173	3,3-Dimethyl-1-butanol	57	7.780	7.784	(0.951)	244807	945.680	945.68
174	tert-Amyl methyl ether	73	5.288	5.284	(1.098)	316230	46.9636	46.96
175	tert-Butyl ethyl ether	59	4.050	4.047	(0.841)	296266	45.0136	45.01
176	tert-Amyl alcohol	59	5.246	5.250	(1.090)	220160	957.382	957.38
151	4-Methyl-2-pentanol	45	7.214	7.222	(1.300)	684124	1000.99	1000.98
140	1,3-Butadiene	54	1.404	1.396	(0.292)	52944	49.7248	49.72
182	Epichlorohydrin	57	6.630	6.630	(1.195)	29494	202.504	202.50
M 94	1,2-Dichloroethylene (total)	96				211237	88.1181	88.11
M 95	Xylenes (total)	106				548315	144.965	144.96
145	alpha-Methylstyrene	118	9.752	9.752	(0.959)	149292	48.1430	48.14
130	Ethyl Acetate	43	4.343	4.339	(0.902)	125248	47.2543	47.25
131	Methyl Acrylate	55	4.369	4.365	(0.907)	132514	49.8882	49.88
189	n-Butyl acetate	43	7.702	7.702	(0.941)	188477	48.2719	48.27
134	Cyclohexanone	55	9.152	9.152	(0.900)	109024	945.905	945.90
185	Isoprene	39	2.157	2.146	(0.448)	22389	48.8527	48.85
188	Isopropyl acetate	43	5.284	5.284	(0.952)	316390	45.9115	45.91
150	Allyl alcohol	57	3.338	3.331	(0.693)	88944	929.824	929.82
194	Acetaldehyde	44	1.464	1.453	(0.304)	86793	182.705	182.70(M)
195	Methyl Amyl Ketone	43	8.868	8.868	(1.083)	211067	46.5857	46.58
200	Dimethyl Disulfide	94	6.746	6.746	(0.824)	73781	40.9419	40.94

202 Isobutylene	41	1.749	1.734 (0.363)	45044	50.8764	50.87(M)
133 Ethyl Acrylate	55	5.947	5.944 (1.235)	247349	48.4292	48.42

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
163 Butyl methacrylate	41	9.647	9.647	(0.949)	103612	44.2067	44.20
159 Propylene oxide	43	2.202	2.191	(0.457)	15875	96.2830	96.28
203 2-Ethylhexyl Acrylate	55	12.039	12.039	(1.184)	118712	47.2131	47.21

QC Flag Legend

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



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052914.D
Date : 29-MAY-2024 14:58
Client ID: VSTD050
Sample Info: VSTD050;VSTD050;2;;ICV
Purge Volume: 5.0
Column phase: DB624

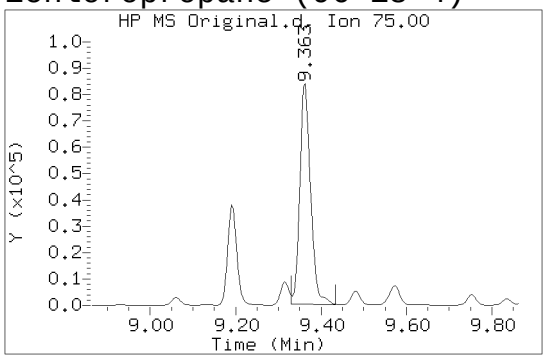
Instrument: VOA9.i
Operator: FT
Column diameter: 0.18

Data File : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052914.D
Inj Date : 29-MAY-2024 14:58
InstruID : VOA9.i
LabSampID : VSTD050

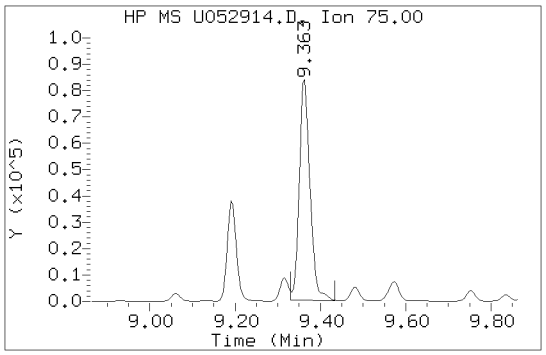
1,2,3-Trichloropropane (96-18-4)

Reason Code:

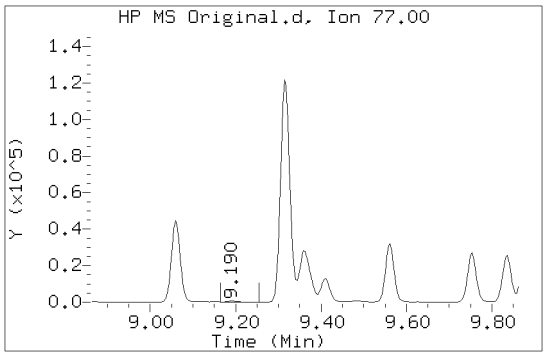
BEFORE
MASS
75
AREA
150118
HEIGHT
83759
06-Jun-2024
17:10
s
zaid



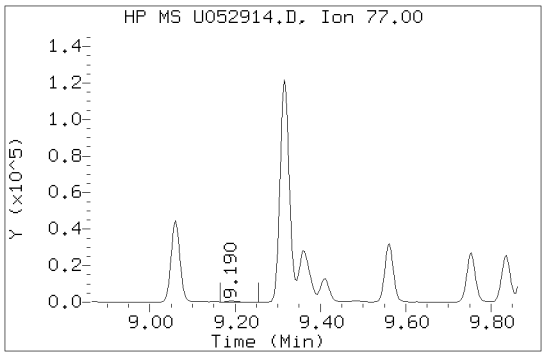
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MASS
75
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07-Jun-2024
10:36



BEFORE
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AREA
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HEIGHT
553
06-Jun-2024
17:10
s
zaid



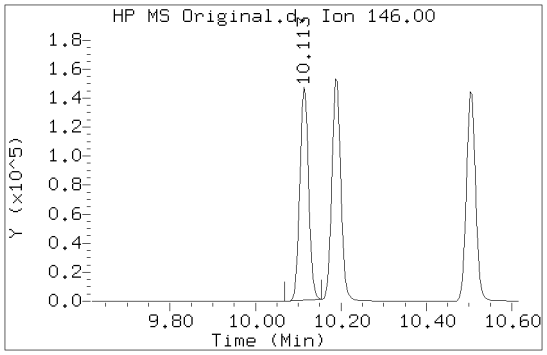
AFTER
MASS
77
AREA
1257
HEIGHT
553
07-Jun-2024
10:36



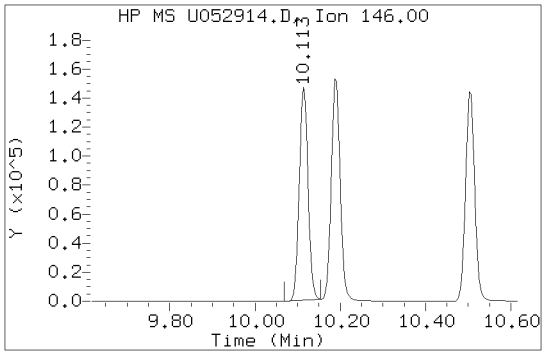
1,3-Dichlorobenzene (541-73-1)

Reason Code:

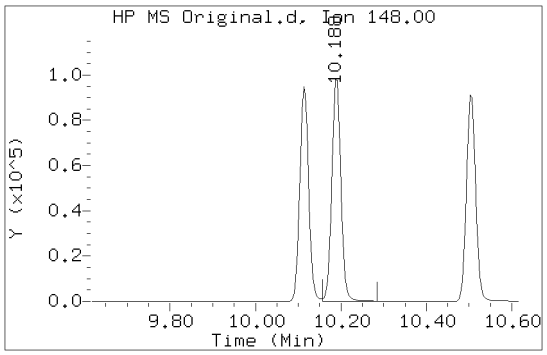
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HEIGHT
146863
06-Jun-2024
17:10
s
zaid



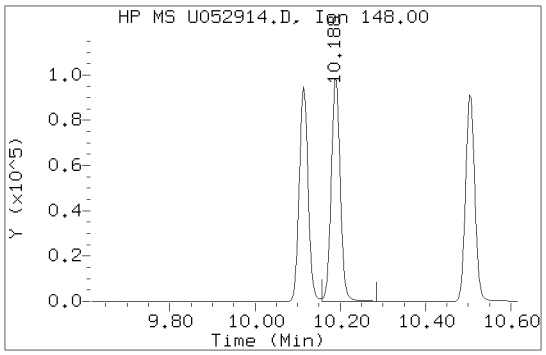
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146
AREA
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HEIGHT
146863
07-Jun-2024
10:36



BEFORE
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148
AREA
144497
HEIGHT
97878
06-Jun-2024
17:10
s
zaid



AFTER
MASS
148
AREA
144497
HEIGHT
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07-Jun-2024
10:36



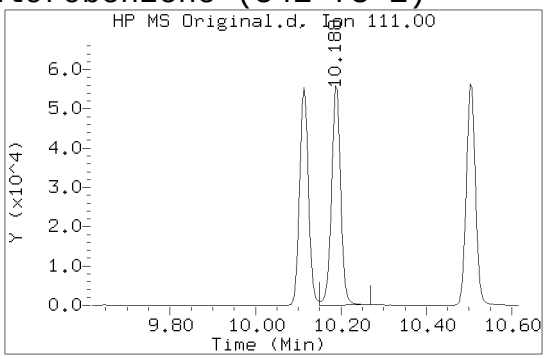
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052914.D
Inj Date : 29-MAY-2024 14:58
InstruID : VOA9.i
LabSampID : VSTD050

1,3-Dichlorobenzene (541-73-1)

Reason Code:

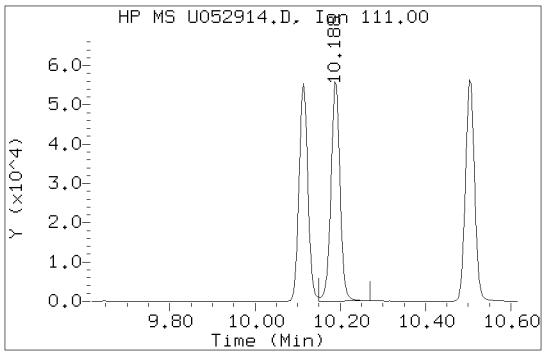
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AREA
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55841
06-Jun-2024
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zaid



AFTER

MASS
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HEIGHT
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07-Jun-2024
10:36

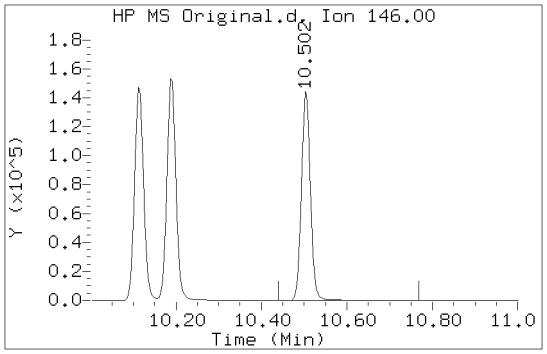


1,2-Dichlorobenzene (95-50-1)

Reason Code:

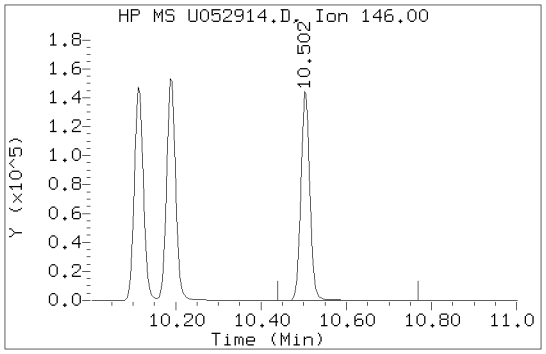
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AREA
216164
HEIGHT
144448
06-Jun-2024
17:10
s
zaid



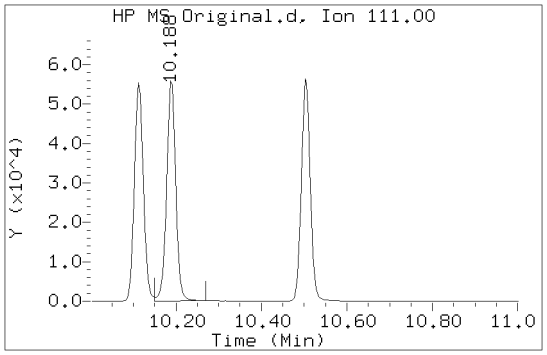
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HEIGHT
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07-Jun-2024
10:36



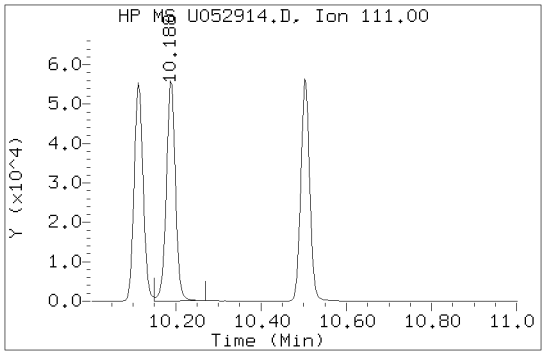
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AREA
82544
HEIGHT
55841
06-Jun-2024
17:10
s
zaid



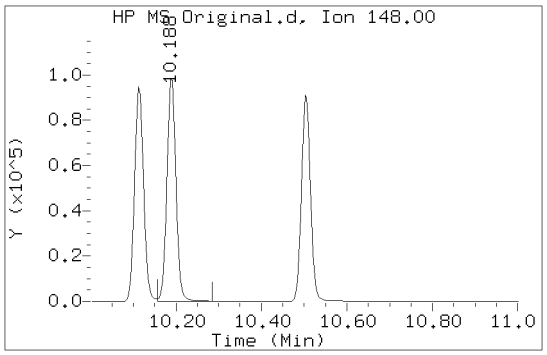
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HEIGHT
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07-Jun-2024
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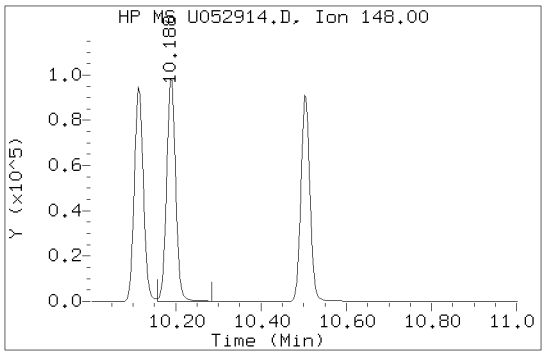
BEFORE

MASS
148
AREA
144497
HEIGHT
97878
06-Jun-2024
17:10
s
zaid



AFTER

MASS
148
AREA
144497
HEIGHT
97878
07-Jun-2024
10:36

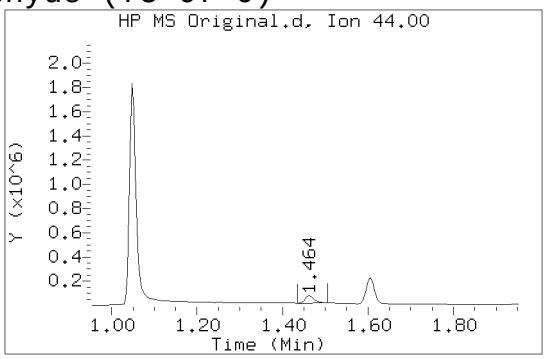


Data File : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052914.D
Inj Date : 29-MAY-2024 14:58
InstruID : VOA9.i
LabSampID : VSTD050

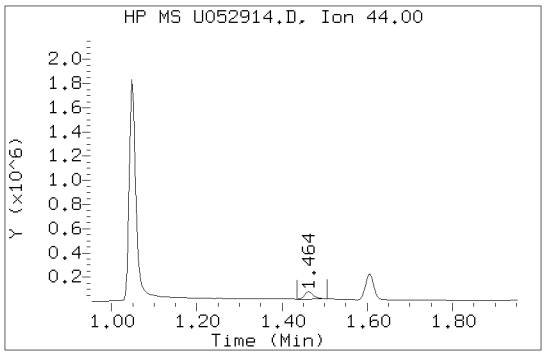
Acetaldehyde (75-07-0)

Reason Code:

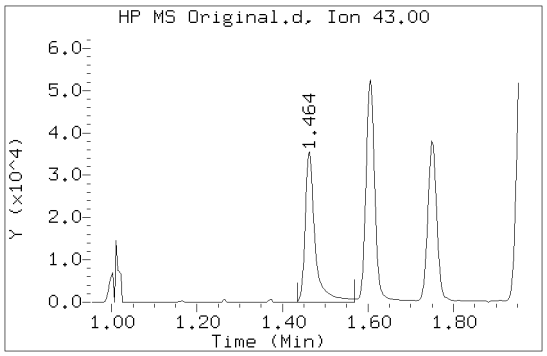
BEFORE
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44
AREA
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HEIGHT
62067
06-Jun-2024
17:10
s
zaid



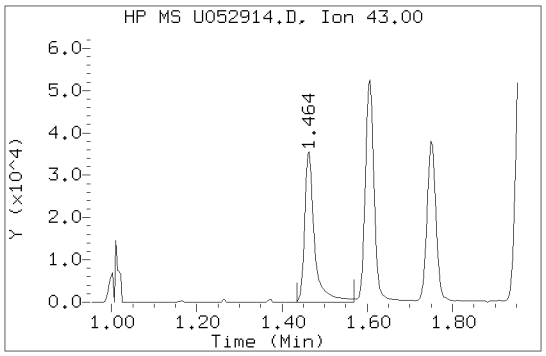
AFTER
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HEIGHT
62067
07-Jun-2024
10:36



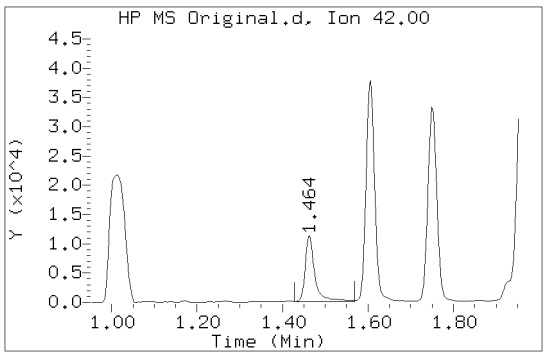
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AREA
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HEIGHT
35528
06-Jun-2024
17:10
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zaid



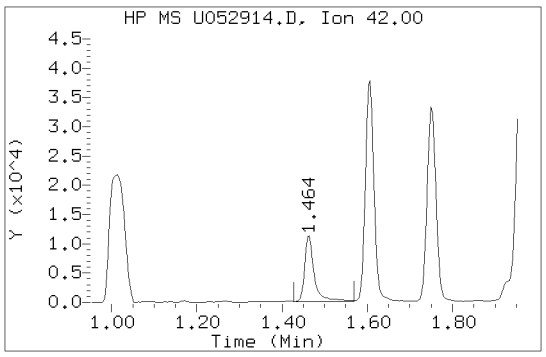
AFTER
MASS
43
AREA
58334
HEIGHT
35528
07-Jun-2024
10:36



BEFORE
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AREA
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HEIGHT
11223
06-Jun-2024
17:10
s
zaid



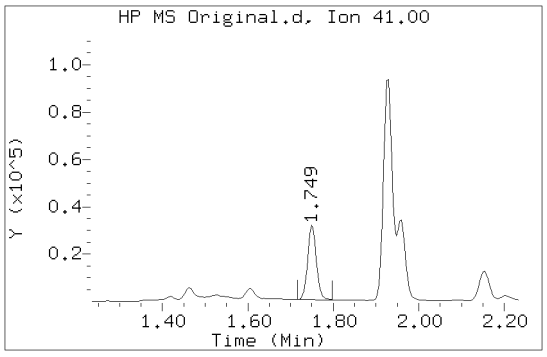
AFTER
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42
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HEIGHT
11223
07-Jun-2024
10:36



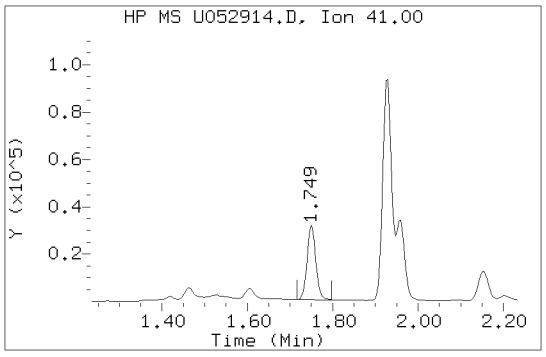
Isobutylene (115-11-7)

Reason Code:

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MASS
41
AREA
45044
HEIGHT
31427
06-Jun-2024
17:10
s
zaid



AFTER
MASS
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AREA
45044
HEIGHT
31427
07-Jun-2024
10:36



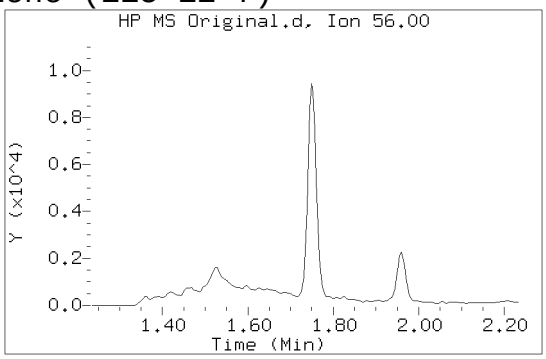
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052914.D
Inj Date : 29-MAY-2024 14:58
InstruID : VOA9.i
LabSampID : VSTD050

Isobutylene (115-11-7)

Reason Code:

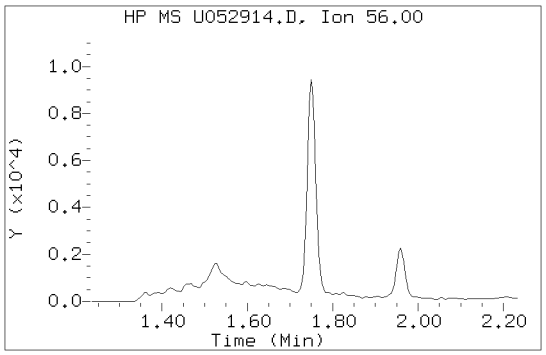
BEFORE

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AREA
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HEIGHT
0
06-Jun-2024
17:10
s
zaid



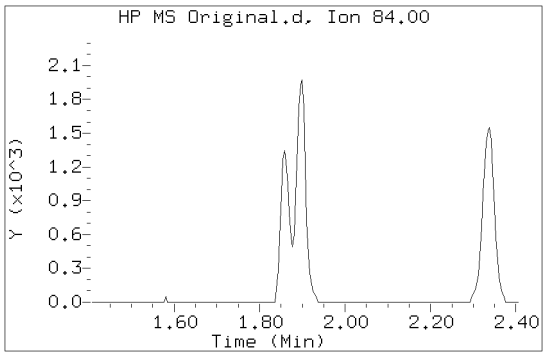
AFTER

MASS
56
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07-Jun-2024
10:36



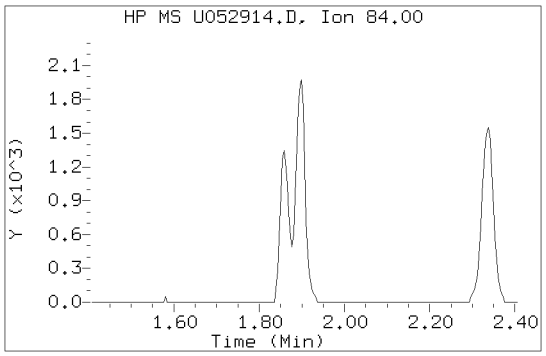
BEFORE

MASS
84
AREA
0
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0
06-Jun-2024
17:10
s
zaid



AFTER

MASS
84
AREA
0
HEIGHT
0
07-Jun-2024
10:36



01333368

right solutions.
right partner.

RawData

<textMethods>

Workorder

HS24051300

Client

Bhate Environmental Associates, Inc.

Project

LHAAP Site 50

06/22/2024

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\voa9.i\U240529.b\W052801.D Page 1
Report Date: 30-May-2024 09:22

ALS Laboratory Group

Data file : \\nahstws005\Target\chem\voa9.i\U240529.b\W052801.D
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 30-MAY-2024 02:45
Operator : FT Inst ID: VOA9.i
Smp Info : BFB;BFB;3;;BFB
Misc Info : V9;WATER;0;1;
Comment :
Method : \\nahstws005\Target\chem\voa9.i\U240529.b\bfb.m
Meth Date : 27-Jan-2023 08:08 apoluri Quant Type: ISTD
Cal Date : 30-MAR-2018 18:09 Cal File: U033003.d
Als bottle: 44 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: NAHSTW7066

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)		
RT	EXP RT	REL RT	MASS	RESPONSE			TARGET RANGE	RATIO
1 bfb						CAS #: 460-00-4		
9.190	9.180	(0.000)	95	50152			0.00- 100.00	100.00
9.190	9.180	(0.000)	50	9839			15.00- 40.00	19.62
9.190	9.180	(0.000)	75	24800			30.00- 60.00	49.45
9.190	9.180	(0.000)	96	3828			5.00- 9.00	7.63
9.190	9.180	(0.000)	173	0	0.0	0.0	0.00- 2.00	0.00
9.190	9.180	(0.000)	174	41616			50.00- 0.00	82.98
9.190	9.180	(0.000)	175	3658			5.00- 9.00	8.79
9.190	9.180	(0.000)	176	40024			95.00- 101.00	96.17
9.190	9.180	(0.000)	177	2723			5.00- 9.00	6.80

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	19.62
75	30.00 - 60.00% of mass 95	49.45
96	5.00 - 9.00% of mass 95	7.63
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	82.98
175	5.00 - 9.00% of mass 174	7.29 (8.79)
176	95.00 - 101.00% of mass 174	79.81 (96.17)
177	5.00 - 9.00% of mass 176	5.43 (6.80)

Data File: W052801.D
Spectrum: Scan 2292 (9.18)
Location of Maximum: 95.05
Number of points: 83

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	519	61.00	2407	85.80	71	134.80	94
37.00	2700	62.00	2182	87.00	2411	136.80	98
38.00	2265	63.00	1867	87.90	2301	140.20	107
39.00	864	64.00	240	90.90	212	140.90	375
39.90	216	65.00	320	92.00	1424	141.80	54
42.90	101	66.00	51	93.00	2273	142.90	495
44.00	542	67.20	238	94.10	5922	144.90	69
45.00	500	68.00	4929	95.00	50152	145.90	92
46.10	75	69.00	4925	96.00	3828	148.00	129
47.00	760	69.90	502	97.00	108	149.80	80
48.00	318	72.00	272	103.90	208	155.00	115
49.10	2153	73.00	2282	104.80	88	156.80	97
50.00	9839	74.00	8402	105.90	214	158.80	72
51.10	3159	75.00	24800	115.90	202	170.70	56
52.00	165	76.00	2269	116.90	343	172.00	369
53.00	68	76.90	390	117.80	161	173.90	41616
55.00	182	77.90	247	118.80	257	175.00	3658
56.00	828	78.90	1325	127.70	162	175.90	40024
57.00	1259	79.90	403	128.90	92	176.90	2723
58.00	78	80.90	1378	129.90	225	177.80	101
60.00	472	81.90	339	131.00	72		

Data File: \\nahstws005\Target\chem\voa9.i\U240529.b\W052801.D Page 1

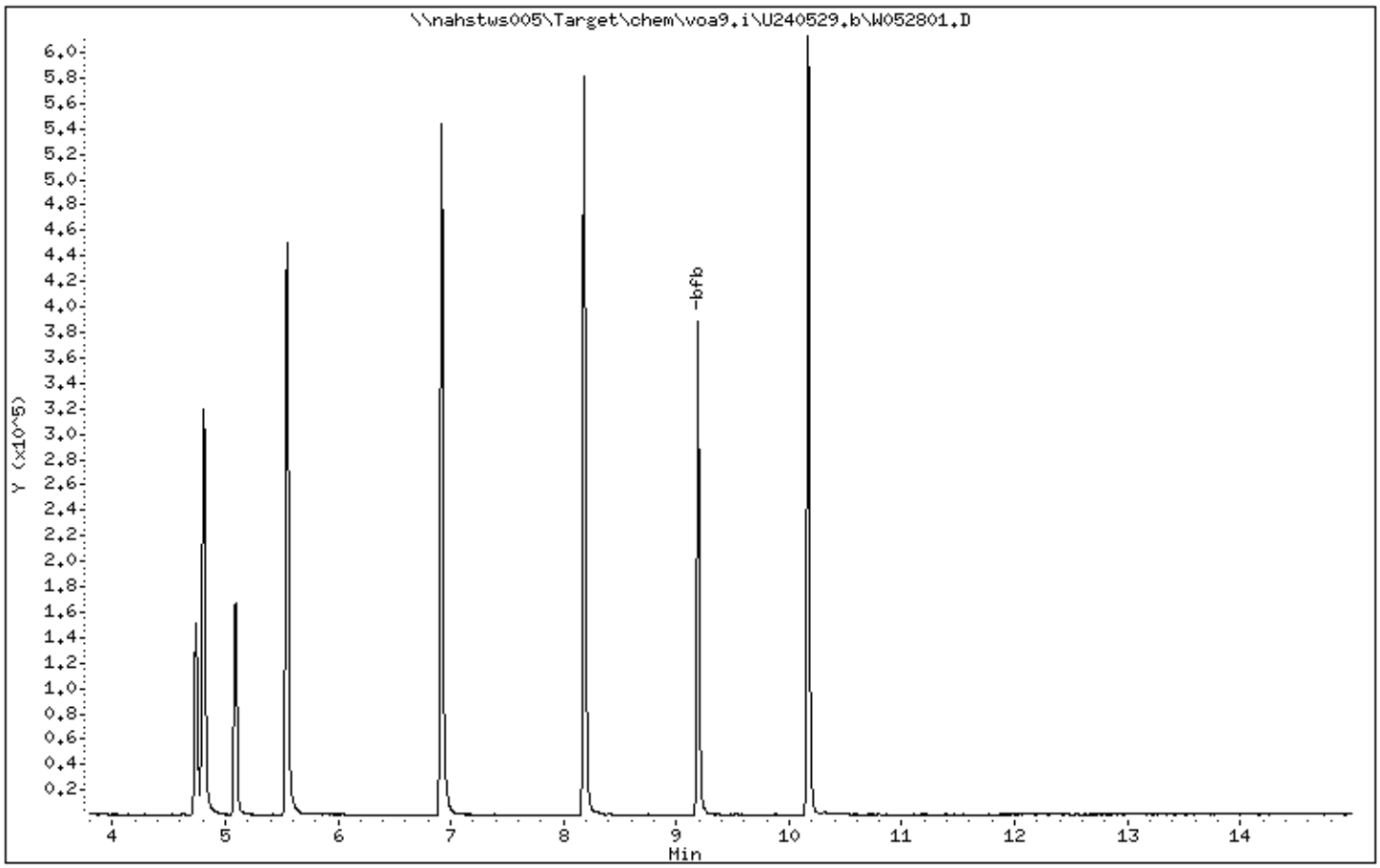
Date : 30-MAY-2024 02:45

Client ID: BFB Instrument: VOA9.i

Sample Info: BFB;BFB;3;;BFB

Volume Injected (uL): 2.0 Operator: FT

Column phase: DB624 Column diameter: 0.25



Data File: \\nahstws005\Target\chem\voa9.i\U240529.b\W052801.D Page 2

Date : 30-MAY-2024 02:45

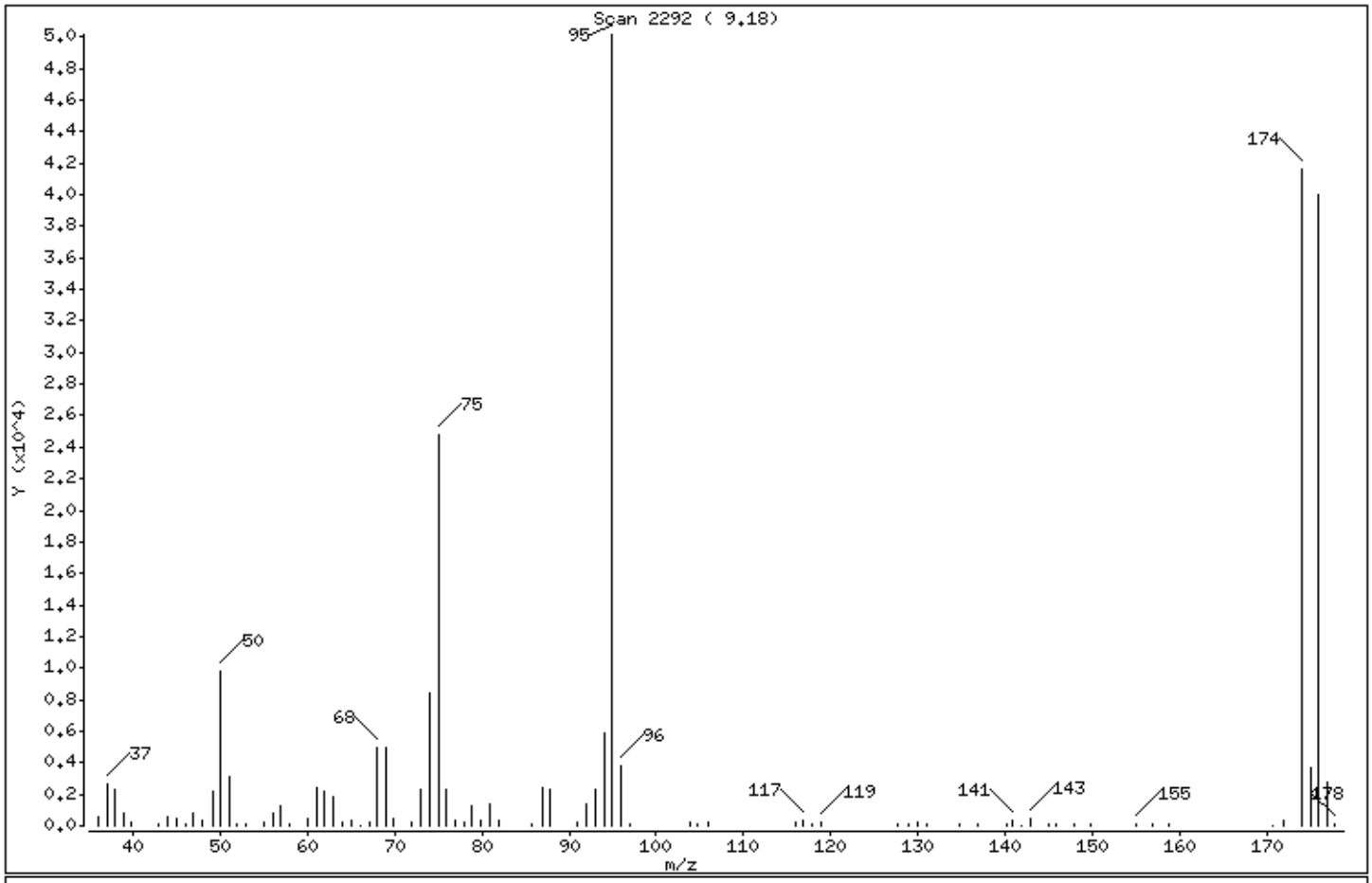
Client ID: BFB Instrument: VOA9.i

Sample Info: BFB;BFB;3;;BFB

Volume Injected (uL): 2.0 Operator: FT

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	19.62
75	30.00 - 60.00% of mass 95	49.45
96	5.00 - 9.00% of mass 95	7.63
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	82.98
175	5.00 - 9.00% of mass 174	7.29 (8.79)
176	95.00 - 101.00% of mass 174	79.81 (96.17)
177	5.00 - 9.00% of mass 176	5.43 (6.80)

Data File: \\nahstws005\Target\chem\voa9.i\U240529.b\W052801.D

Date : 30-MAY-2024 02:45

Client ID: BFB Instrument: VOA9.i

Sample Info: BFB;BFB;3;;BFB

Volume Injected (uL): 2.0 Operator: FT

Column phase: DB624 Column diameter: 0.25

Data File: W052801.D
Spectrum: Scan 2292 (9.18)
Location of Maximum: 95.05
Number of points: 83

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	519	61.00	2407	85.80	71	134.80	94
37.00	2700	62.00	2182	87.00	2411	136.80	98
38.00	2265	63.00	1867	87.90	2301	140.20	107
39.00	864	64.00	240	90.90	212	140.90	375
39.90	216	65.00	320	92.00	1424	141.80	54
42.90	101	66.00	51	93.00	2273	142.90	495
44.00	542	67.20	238	94.10	5922	144.90	69
45.00	500	68.00	4929	95.00	50152	145.90	92
46.10	75	69.00	4925	96.00	3828	148.00	129
47.00	760	69.90	502	97.00	108	149.80	80
48.00	318	72.00	272	103.90	208	155.00	115
49.10	2153	73.00	2282	104.80	88	156.80	97
50.00	9839	74.00	8402	105.90	214	158.80	72
51.10	3159	75.00	24800	115.90	202	170.70	56
52.00	165	76.00	2269	116.90	343	172.00	369
53.00	68	76.90	390	117.80	161	173.90	41616
55.00	182	77.90	247	118.80	257	175.00	3658
56.00	828	78.90	1325	127.70	162	175.90	40024
57.00	1259	79.90	403	128.90	92	176.90	2723
58.00	78	80.90	1378	129.90	225	177.80	101
60.00	472	81.90	339	131.00	72		

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240529.b\W052802.D Page 1
Report Date: 22-Jun-2024 11:25

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\W052802.D
Lab Smp Id: VSTD050 Client Smp ID: VSTD050
Inj Date : 30-MAY-2024 03:28
Operator : FT Inst ID: VOA9.i
Smp Info : VSTD050;VSTD050;2;;CCV
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240529.b\8260C.m
Meth Date : 22-Jun-2024 11:25 VOA9.i Quant Type: ISTD
Cal Date : 29-MAY-2024 13:53 Cal File: U052911.D
Als bottle: 45 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	4.811	4.811	(1.000)	248318	50.0000	
2	Dichlorodifluoromethane	85	1.160	1.160	(0.241)	53465	50.0000	57.75
3	Chloromethane	50	1.295	1.295	(0.269)	196149	50.0000	59.37
4	Propionitrile	54	4.335	4.335	(0.901)	132632	500.000	487.24
5	Vinyl Chloride	62	1.374	1.374	(0.286)	100774	50.0000	53.74
6	Bromomethane	94	1.606	1.606	(0.334)	43409	50.0000	53.08
7	Chloroethane	64	1.692	1.692	(0.352)	74833	50.0000	56.85
8	Trichlorofluoromethane	101	1.891	1.891	(0.393)	126421	50.0000	56.77
9	Acrolein	56	2.262	2.262	(0.470)	10262	100.000	117.12(M)
10	Acetone	43	2.408	2.408	(0.501)	82300	100.000	110.55
11	1,1-Dichloroethene	96	2.330	2.330	(0.484)	82718	50.0000	50.53
12	Isobutyl Alcohol	43	5.280	5.280	(1.097)	301702	1000.00	1131.94
13	Acetonitrile	39	2.667	2.667	(0.554)	95895	500.000	476.07
14	Allyl Chloride	41	2.671	2.671	(0.555)	232548	50.0000	47.79
15	Iodomethane	142	2.465	2.465	(0.512)	42246	100.000	115.73
16	Acrylonitrile	53	3.064	3.064	(0.637)	65283	100.000	94.73
17	Methylene Chloride	84	2.791	2.791	(0.580)	106438	50.0000	55.50
18	Methyl tert-butyl ether	73	3.079	3.079	(0.640)	219983	50.0000	47.84
19	Carbon Disulfide	76	2.517	2.517	(0.523)	459585	100.000	100.08
20	trans-1,2-Dichloroethene	96	3.053	3.053	(0.635)	90807	50.0000	49.05

21 Vinyl Acetate	43	4.339	4.339 (0.902)	123333	100.000	112.70	
22 1,1-Dichloroethane	63	3.511	3.511 (0.730)	177272	50.0000	49.85	

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240529.b\W052802.D Page 2
Report Date: 22-Jun-2024 11:25

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
23	Chloroprene	53	3.604	3.604	(0.749)	145572	50.0000	55.83
24	2-Butanone	43	4.264	4.264	(0.886)	115259	100.000	103.86
25	Methacrylonitrile	41	4.493	4.493	(0.934)	55354	50.0000	48.82(a)
26	2,2-Dichloropropane	77	4.178	4.178	(0.868)	98365	50.0000	42.14
27	cis-1,2-Dichloroethene	96	4.193	4.193	(0.871)	109588	50.0000	47.93
28	Chloroform	83	4.568	4.568	(0.949)	184190	50.0000	51.87
29	Bromochloromethane	128	4.467	4.467	(0.928)	56811	50.0000	53.96
$ 30	Dibromofluoromethane	113	4.744	4.744	(0.986)	92006	50.0000	58.12
31	1,1,1-Trichloroethane	97	4.740	4.740	(0.985)	141477	50.0000	56.90
32	1,1-Dichloropropene	75	4.920	4.920	(0.887)	134523	50.0000	51.78
33	1,2-Dichloroethane	62	5.171	5.171	(0.932)	151490	50.0000	56.68
34	Carbon Tetrachloride	117	4.909	4.909	(0.885)	113352	50.0000	55.70
$ 35	1,2-Dichloroethane-d4	65	5.096	5.096	(1.059)	108893	50.0000	56.99
* 36	1,4-Difluorobenzene	114	5.550	5.550	(1.000)	358648	50.0000	
37	Benzene	78	5.134	5.134	(0.925)	416615	50.0000	49.31
38	Trichloroethene	130	5.786	5.786	(1.043)	103580	50.0000	49.81
39	Bromodichloromethane	83	6.277	6.277	(1.131)	127735	50.0000	56.22
40	Methyl Methacrylate	41	5.820	5.820	(1.210)	39615	50.0000	45.73
41	2-Chloroethylvinyl ether	63	6.573	6.573	(1.184)	79941	100.000	105.93
42	1,2-Dichloropropane	63	6.007	6.007	(1.082)	115865	50.0000	52.00
43	2-Nitropropane	43	6.506	6.506	(1.352)	21537	50.0000	50.10
44	Dibromomethane	93	6.116	6.116	(1.102)	69004	50.0000	53.33
45	4-Methyl-2-Pentanone	43	6.851	6.851	(0.837)	248265	100.000	113.42
46	cis-1,3-Dichloropropene	75	6.689	6.689	(1.205)	157912	50.0000	52.30
* 47	Chlorobenzene-d5	117	8.181	8.181	(1.000)	323257	50.0000	
$ 48	Toluene-d8	98	6.918	6.918	(0.846)	358321	50.0000	58.09
49	Ethyl Methacrylate	69	7.289	7.289	(1.313)	121416	50.0000	43.76
50	Toluene	91	6.978	6.978	(0.853)	427652	50.0000	48.73
51	trans-1,3-Dichloropropene	75	7.196	7.196	(1.296)	131235	50.0000	52.98
52	2-Hexanone	43	7.589	7.589	(0.928)	161760	100.000	113.23
53	1,1,2-Trichloroethane	83	7.353	7.353	(0.899)	88988	50.0000	57.63
54	1,3-Dichloropropane	76	7.495	7.495	(0.916)	190962	50.0000	53.42
55	Dibromochloromethane	129	7.690	7.690	(0.940)	103195	50.0000	54.19
56	Tetrachloroethene	164	7.454	7.454	(0.911)	80986	50.0000	52.84
57	1,2-Dibromoethane	107	7.780	7.780	(0.951)	104153	50.0000	53.97
58	1-Chlorohexane	55	8.193	8.193	(1.476)	77332	50.0000	51.86
59	Chlorobenzene	112	8.208	8.208	(1.003)	277546	50.0000	49.81
60	1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	98884	50.0000	55.61
61	Ethylbenzene	106	8.305	8.305	(1.015)	137944	50.0000	53.42
62	m,p-Xylenes	106	8.406	8.406	(1.027)	354483	100.000	106.47
63	o-Xylene	106	8.744	8.744	(1.069)	173211	50.0000	51.80
64	Styrene	104	8.759	8.759	(1.071)	292745	50.0000	54.71
66	Bromoform	173	8.916	8.916	(1.090)	64053	50.0000	51.82
67	Isopropylbenzene	105	9.059	9.059	(1.107)	427108	50.0000	55.35
68	1,1,2,2-Tetrachloroethane	83	9.325	9.325	(0.917)	148670	50.0000	50.66
$ 69	4-Bromofluorobenzene	95	9.190	9.190	(1.123)	132571	50.0000	58.98
* 70	1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	176531	50.0000	
71	1,2,3-Trichloropropane	75	9.359	9.359	(0.920)	145528	50.0000	52.88
72	trans-1,4-Dichloro-2-butene	53	9.374	9.374	(1.146)	28124	50.0000	50.92
73	n-Propylbenzene	91	9.411	9.411	(0.926)	490124	50.0000	51.51
74	Bromobenzene	156	9.314	9.314	(0.916)	121332	50.0000	49.98
75	1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	343878	50.0000	53.00

76	2-Chlorotoluene	91	9.479	9.479 (0.932)	304567	50.0000	54.87
77	4-Chlorotoluene	91	9.572	9.572 (0.941)	352161	50.0000	51.55

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
78	tert-Butylbenzene	119	9.835	9.835	(0.967)	298736	50.0000	55.93
79	1,2,4-Trimethylbenzene	105	9.876	9.876	(0.971)	346678	50.0000	52.09
81	sec-Butylbenzene	105	10.018	10.018	(0.985)	396370	50.0000	54.67
82	p-Isopropyltoluene	119	10.142	10.142	(0.997)	341420	50.0000	54.04
83	1,3-Dichlorobenzene	146	10.112	10.112	(0.994)	210490	50.0000	51.34(M)
84	1,4-Dichlorobenzene	146	10.187	10.187	(1.002)	220382	50.0000	48.54
86	Benzyl Chloride	91	10.307	10.307	(1.260)	104177	50.0000	40.13(M)
87	n-Butylbenzene	91	10.491	10.491	(1.032)	291938	50.0000	51.19
88	1,2-Dichlorobenzene	146	10.502	10.502	(1.033)	212832	50.0000	50.11(M)
89	1,2-Dibromo-3-Chloropropane	155	11.165	11.165	(1.098)	18933	50.0000	50.76
90	1,2,4-Trichlorobenzene	180	11.855	11.855	(1.166)	137439	50.0000	51.35
91	Hexachlorobutadiene	225	11.994	11.994	(1.180)	54761	50.0000	51.00
92	Naphthalene	128	12.065	12.065	(1.187)	350418	50.0000	53.78
93	1,2,3-Trichlorobenzene	180	12.268	12.268	(1.206)	128837	50.0000	51.67
146	Methyl acetate	43	2.712	2.712	(0.564)	112288	50.0000	57.10
138	Freon TF	101	2.330	2.330	(0.484)	71750	50.0000	51.85
141	Cyclohexane	56	4.781	4.781	(0.994)	128418	50.0000	54.26
142	Tetrahydrofuran	42	4.541	4.541	(0.944)	35818	100.000	100.72
147	Methylcyclohexane	55	5.943	5.943	(1.071)	206361	50.0000	46.64
135	1,4-Dioxane	88	6.165	6.165	(1.281)	21936	1000.00	863.73
132	n-Butanol	56	5.820	5.820	(1.210)	54821	1000.00	819.52
136	n-Hexane	57	3.338	3.338	(0.694)	74168	50.0000	44.99
139	Diethyl ether	59	2.142	2.142	(0.445)	63519	50.0000	48.75
148	Tert-butyl alcohol	59	2.971	2.971	(0.617)	157920	1000.00	923.69
149	Isopropyl alcohol	45	2.566	2.566	(0.533)	127471	1000.00	950.15
152	Amyl alcohol	42	7.394	7.394	(0.904)	63342	1000.00	890.72
156	Diisopropyl ether	45	3.619	3.619	(0.752)	286664	50.0000	45.21
162	Butyl acrylate	55	8.729	8.729	(1.067)	149625	50.0000	43.37
187	n-Amyl acetate	43	8.927	8.927	(1.091)	179521	50.0000	51.14
164	Dicyclopentadiene	66	10.198	10.198	(1.003)	410038	50.0000	45.28
166	1,2,3-Trimethylbenzene	105	10.232	10.232	(1.006)	276908	50.0000	45.06
167	Ethanol	45	2.086	2.086	(0.434)	24244	1000.00	962.58
172	tert-Butyl formate	59	5.239	5.239	(1.089)	161138	100.000	82.15
173	3,3-Dimethyl-1-butanol	57	7.780	7.780	(0.951)	187128	1000.00	831.69
174	tert-Amyl methyl ether	73	5.284	5.284	(1.098)	250727	50.0000	43.15
175	tert-Butyl ethyl ether	59	4.047	4.047	(0.841)	246582	50.0000	43.41
176	tert-Amyl alcohol	59	5.239	5.239	(1.089)	161138	1000.00	812.05
151	4-Methyl-2-pentanol	45	7.214	7.214	(1.300)	537075	1000.00	915.06
140	1,3-Butadiene	54	1.400	1.400	(0.291)	49519	50.0000	53.89
182	Epichlorohydrin	57	6.630	6.630	(1.195)	22189	200.000	178.15
M 94	1,2-Dichloroethylene (total)	96				200395	100.000	(a)
145	alpha-Methylstyrene	118	9.752	9.752	(0.959)	141225	50.0000	52.06
130	Ethyl Acetate	43	4.339	4.339	(0.902)	123333	50.0000	53.92
131	Methyl Acrylate	55	4.365	4.365	(0.907)	108360	50.0000	47.34
189	n-Butyl acetate	43	7.702	7.702	(0.941)	181411	50.0000	53.45
134	Cyclohexanone	55	9.149	9.149	(0.900)	81444	1000.00	813.84
185	Isoprene	39	2.154	2.154	(0.448)	22529	50.0000	56.57
188	Isopropyl acetate	43	5.280	5.280	(0.951)	301655	50.0000	50.69
150	Allyl alcohol	57	3.338	3.338	(0.694)	74168	1000.00	899.90
194	Acetaldehyde	44	1.460	1.460	(0.304)	84501	200.000	205.32(M)
195	Methyl Amyl Ketone	43	8.864	8.864	(1.083)	168461	50.0000	42.77
200	Dimethyl Disulfide	94	6.742	6.742	(0.824)	55293	50.0000	36.20

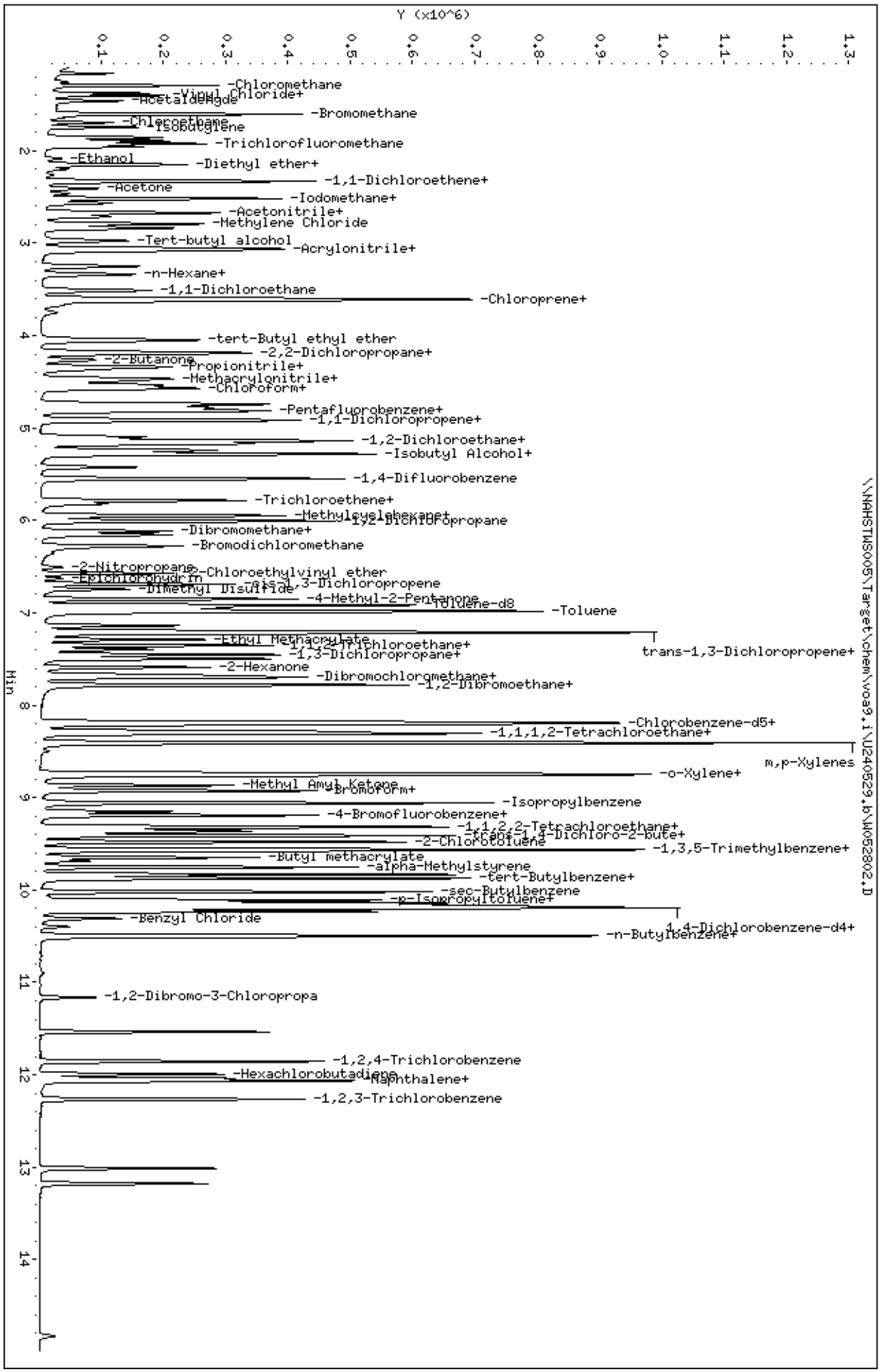
202 Isobutylene	41	1.745	1.745 (0.363)	38172	50.0000	49.99(M)
133 Ethyl Acrylate	55	5.943	5.943 (1.235)	206361	50.0000	46.89

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240529.b\W052802.D Page 4
Report Date: 22-Jun-2024 11:25

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
163 Butyl methacrylate	41	9.647	9.647	(0.949)	89536	50.0000	43.83
159 Propylene oxide	43	2.199	2.199	(0.457)	14335	100.000	100.68
203 2-Ethylhexyl Acrylate	55	12.039	12.039	(1.184)	100955	50.0000	46.17

QC Flag Legend

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



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240529.b\W052802.D
Date : 30-MAY-2024 03:28
Client ID: VSTD050
Sample Info: VSTD050;VSTD050;2;;CCV
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9.i
Operator: FT
Column diameter: 0.18

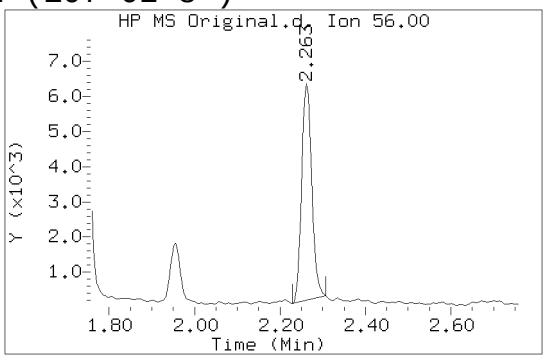
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Inj Date : 30-MAY-2024 03:28
InstruID : VOA9.i
LabSampID : VSTD050

Acrolein (107-02-8)

Reason Code:

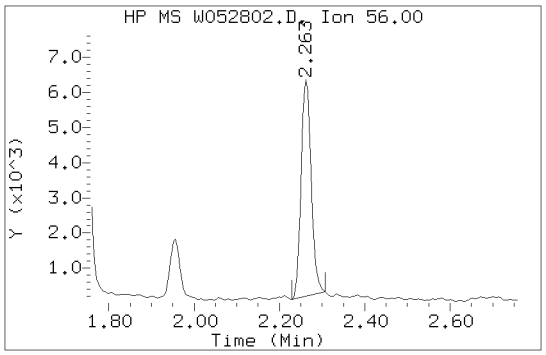
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HEIGHT
6153
22-Jun-2024
11:25
RUCHA
PATEL



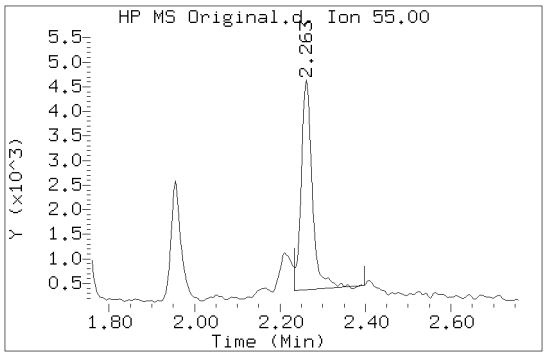
AFTER

MASS
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6153
22-Jun-2024
11:25
RUCHA
PATEL



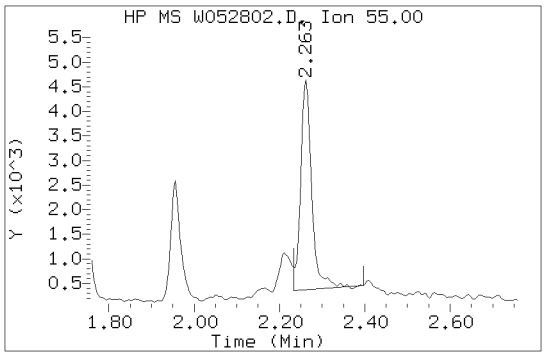
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22-Jun-2024
11:25
RUCHA
PATEL



AFTER

MASS
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22-Jun-2024
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PATEL

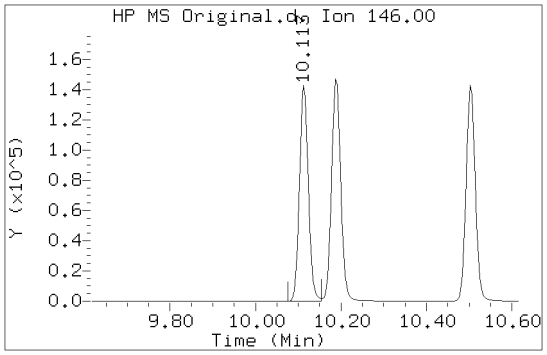


1,3-Dichlorobenzene (541-73-1)

Reason Code:

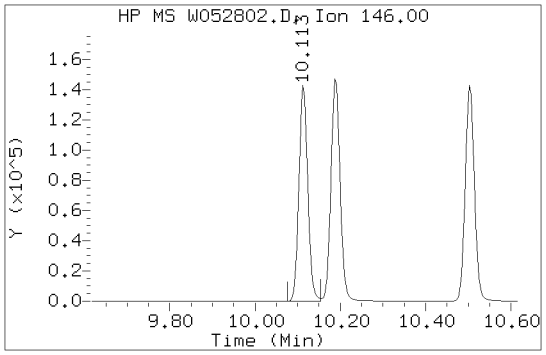
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HEIGHT
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22-Jun-2024
11:25
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PATEL



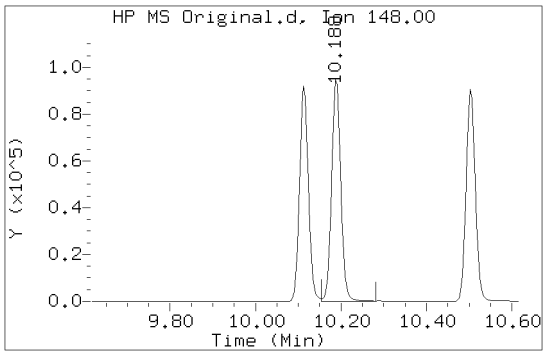
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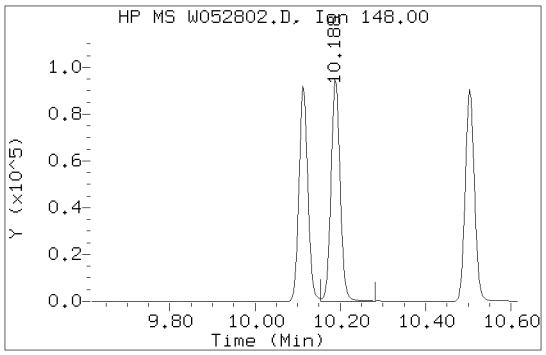
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AFTER

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RUCHA
PATEL



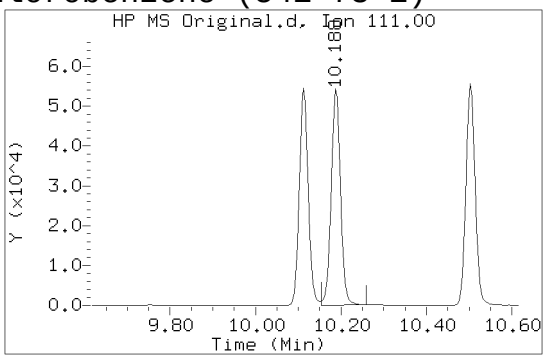
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Inj Date : 30-MAY-2024 03:28
InstruID : VOA9.i
LabSampID : VSTD050

1,3-Dichlorobenzene (541-73-1)

Reason Code:

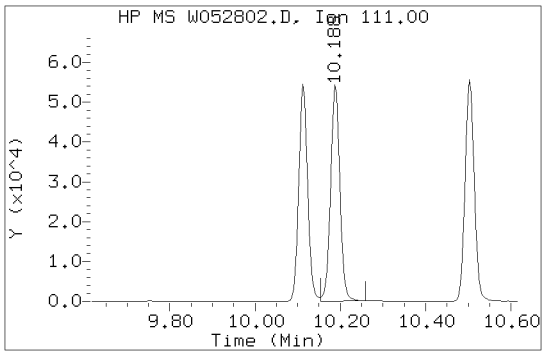
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AFTER

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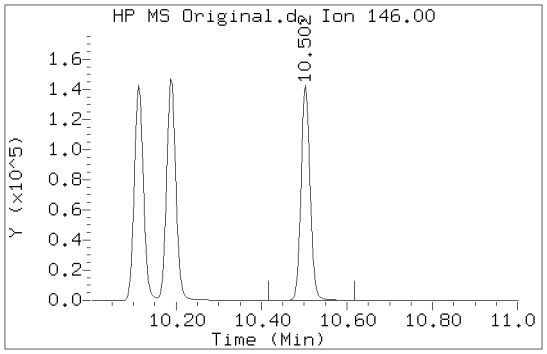


1,2-Dichlorobenzene (95-50-1)

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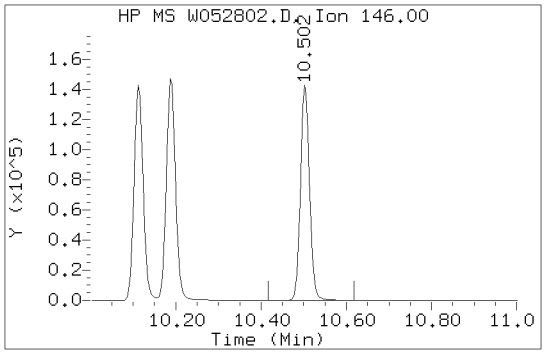
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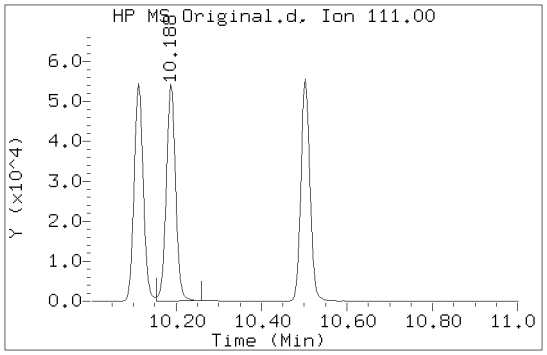
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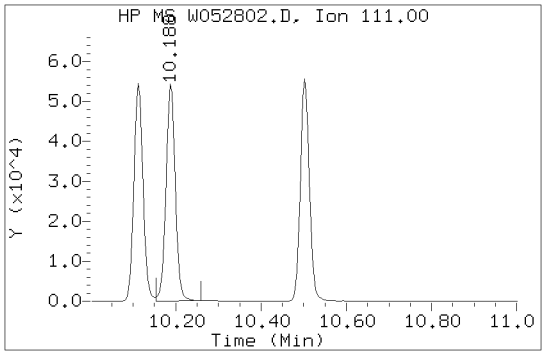
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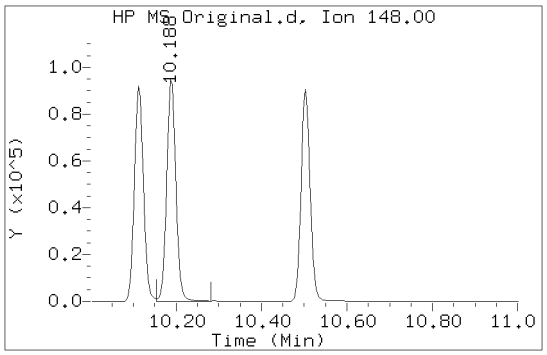
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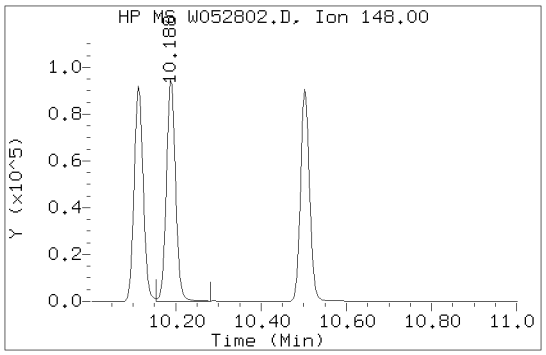
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AFTER

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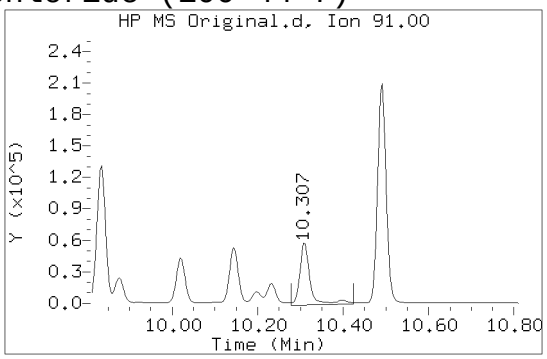
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Inj Date : 30-MAY-2024 03:28
InstruID : VOA9.i
LabSampID : VSTD050

Benzyl Chloride (100-44-7)

Reason Code:

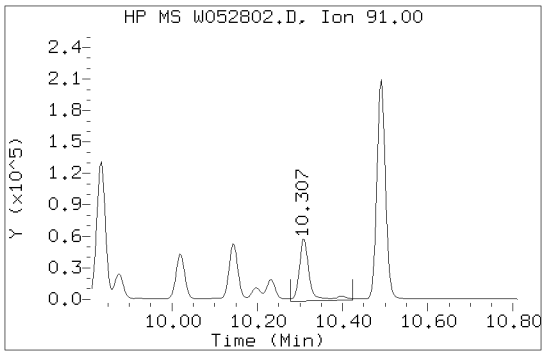
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59118
22-Jun-2024
11:25
RUCHA
PATEL



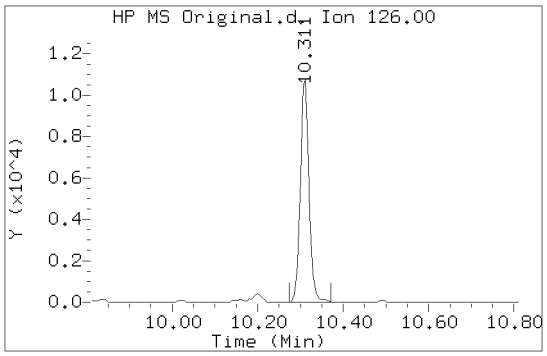
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22-Jun-2024
11:25
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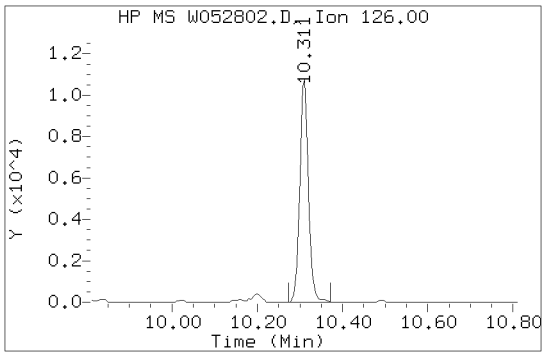
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11:25
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PATEL



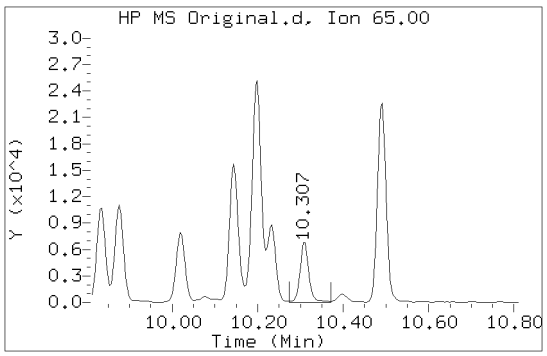
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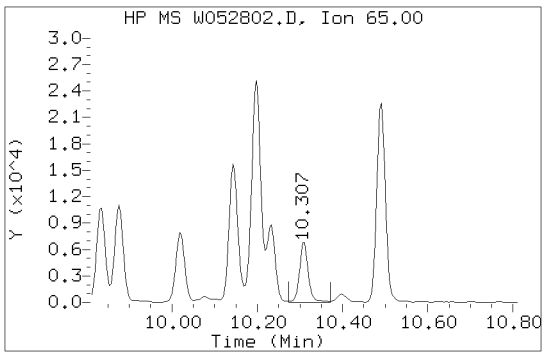
BEFORE

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HEIGHT
6793
22-Jun-2024
11:25
RUCHA
PATEL



AFTER

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HEIGHT
6793
22-Jun-2024
11:25
RUCHA
PATEL

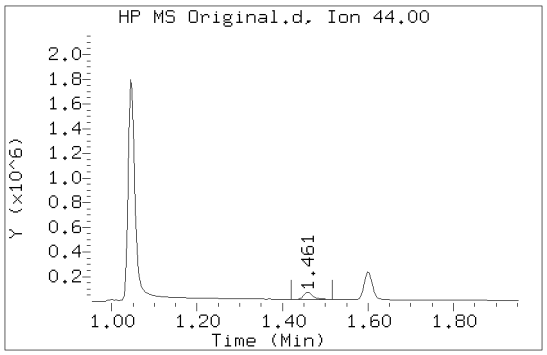


Acetaldehyde (75-07-0)

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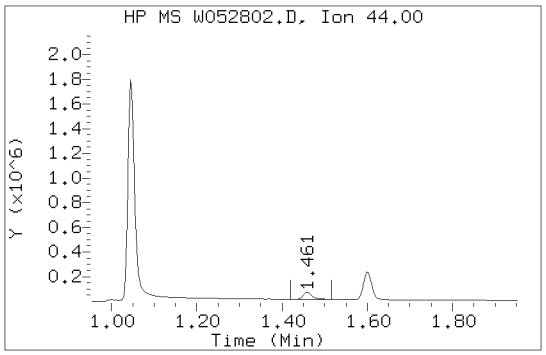
BEFORE

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58056
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11:25
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AFTER

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HEIGHT
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22-Jun-2024
11:25
RUCHA
PATEL



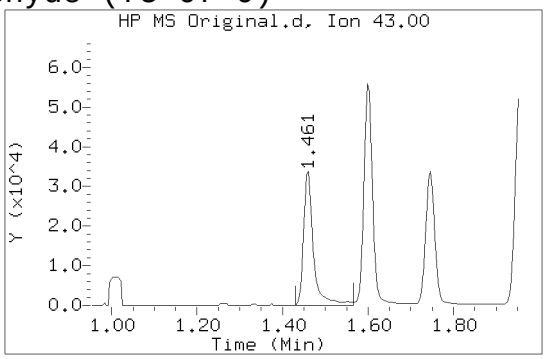
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Inj Date : 30-MAY-2024 03:28
InstruID : VOA9.i
LabSampID : VSTD050

Acetaldehyde (75-07-0)

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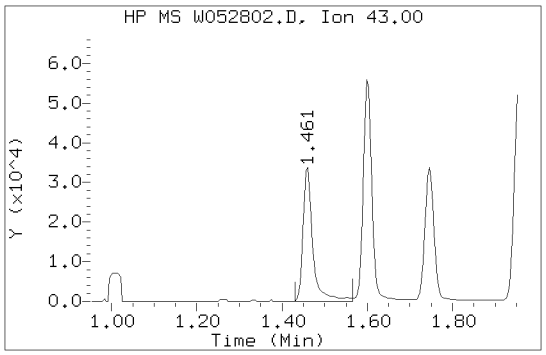
BEFORE

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22-Jun-2024
11:25
RUCHA
PATEL



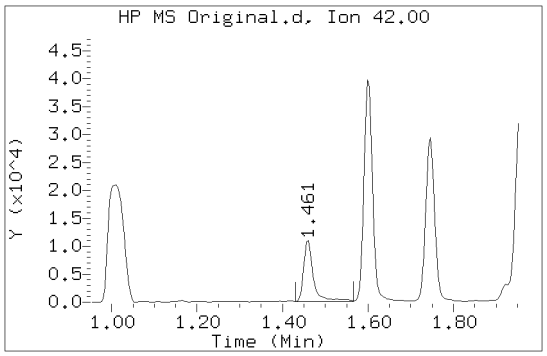
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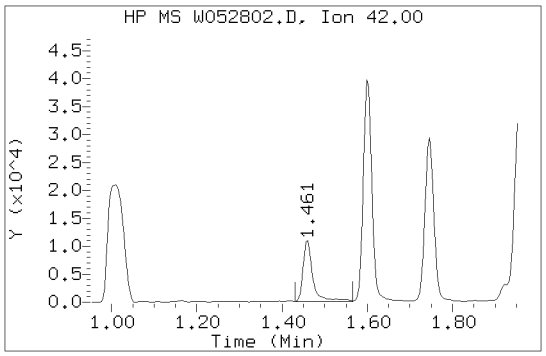
BEFORE

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10893
22-Jun-2024
11:25
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AFTER

MASS
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AREA
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HEIGHT
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22-Jun-2024
11:25
RUCHA
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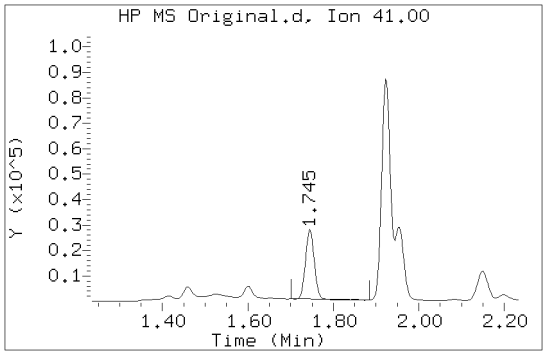


Isobutylene (115-11-7)

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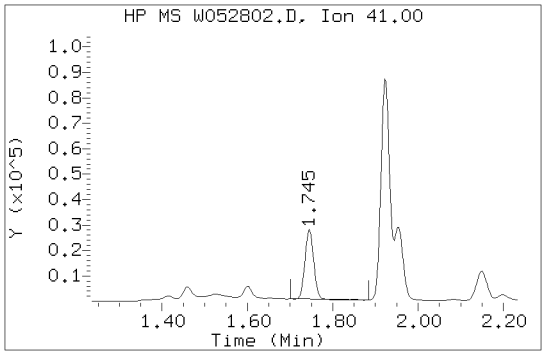
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22-Jun-2024
11:25
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PATEL



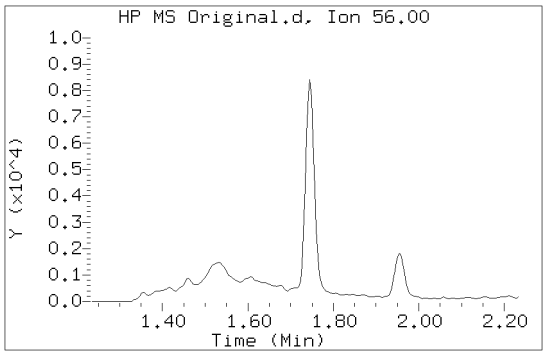
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11:25
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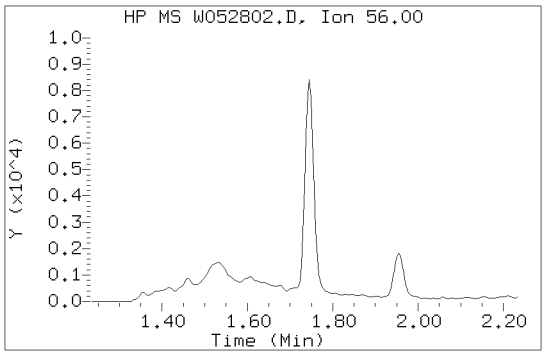
BEFORE

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22-Jun-2024
11:25
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PATEL



AFTER

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11:25
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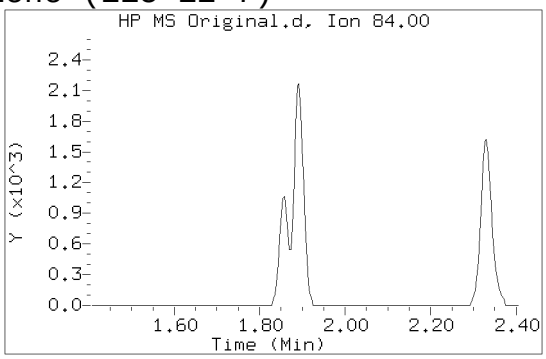
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Inj Date : 30-MAY-2024 03:28
InstruID : VOA9.i
LabSampID : VSTD050

Isobutylene (115-11-7)

Reason Code:

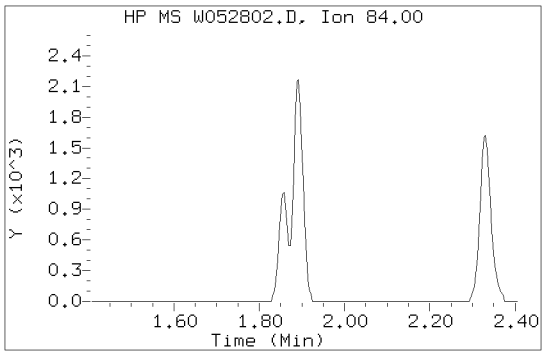
BEFORE

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11:25
RUCHA
PATEL



AFTER

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AREA
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HEIGHT
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22-Jun-2024
11:25
RUCHA
PATEL



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240529.b\W052803.D Page 1
Report Date: 22-Jun-2024 11:25

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\W052803.D
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Inj Date : 30-MAY-2024 03:50
Operator : FT Inst ID: VOA9.i
Smp Info : VLCSW-240529;VLCSW-240529;3;;LCS
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240529.b\8260C.m
Meth Date : 22-Jun-2024 11:25 VOA9.i Quant Type: ISTD
Cal Date : 29-MAY-2024 13:53 Cal File: U052911.D
Als bottle: 46 QC Sample: LCS
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	4.811	4.811	(1.000)	241851	50.0000	
2 Dichlorodifluoromethane	85	1.160	1.160	(0.241)	18637	20.6710	20.67
3 Chloromethane	50	1.291	1.295	(0.268)	72131	21.9627	21.96
4 Propionitrile	54	4.331	4.335	(0.900)	53339	201.882	201.88(a)
5 Vinyl Chloride	62	1.370	1.374	(0.285)	35669	19.5303	19.53
6 Bromomethane	94	1.602	1.606	(0.333)	16629	19.6508	19.65
7 Chloroethane	64	1.689	1.692	(0.351)	25849	20.3859	20.38
8 Trichlorofluoromethane	101	1.887	1.891	(0.392)	45807	21.1208	21.12
9 Acrolein	56	2.255	2.262	(0.469)	3985	46.2705	46.27
10 Acetone	43	2.401	2.408	(0.499)	26716	35.4018	35.40
11 1,1-Dichloroethene	96	2.326	2.330	(0.483)	29502	18.5044	18.50
12 Isobutyl Alcohol	43	5.280	5.280	(1.097)	104513	409.319	409.31(a)
13 Acetonitrile	39	2.663	2.667	(0.554)	38484	196.163	196.16(a)
14 Allyl Chloride	41	2.667	2.671	(0.554)	94028	20.0110	20.01(a)
15 Iodomethane	142	2.461	2.465	(0.512)	16120	88.0318	88.03
16 Acrylonitrile	53	3.061	3.064	(0.636)	26580	39.5421	39.54
17 Methylene Chloride	84	2.787	2.791	(0.579)	39029	20.3317	20.33
18 Methyl tert-butyl ether	73	3.076	3.079	(0.639)	88726	19.8240	19.82
19 Carbon Disulfide	76	2.513	2.517	(0.522)	161874	36.1937	36.19
20 trans-1,2-Dichloroethene	96	3.053	3.053	(0.635)	32066	17.7867	17.78

21 Vinyl Acetate	43	4.335	4.339 (0.901)	39778	37.3219	37.32
22 1,1-Dichloroethane	63	3.507	3.511 (0.729)	62451	18.0324	18.03

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240529.b\W052803.D Page 2
Report Date: 22-Jun-2024 11:25

			QUANT SIG					CONCENTRATIONS	
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/l)	FINAL (ug/l)
	23	Chloroprene	53	3.601	3.604	(0.748)	50047	19.7075	19.70
	24	2-Butanone	43	4.260	4.264	(0.885)	38297	35.4337	35.43
	25	Methacrylonitrile	41	4.489	4.493	(0.933)	21021	19.3437	19.34(a)
	26	2,2-Dichloropropane	77	4.174	4.178	(0.868)	32525	14.3085	14.30
	27	cis-1,2-Dichloroethene	96	4.189	4.193	(0.871)	38047	17.0880	17.08
	28	Chloroform	83	4.568	4.568	(0.949)	64023	18.5146	18.51
	29	Bromochloromethane	128	4.463	4.467	(0.928)	19601	19.2958	19.29
$	30	Dibromofluoromethane	113	4.744	4.744	(0.986)	89623	58.1324	58.13(M)
	31	1,1,1-Trichloroethane	97	4.736	4.740	(0.984)	48251	19.9251	19.92
	32	1,1-Dichloropropene	75	4.916	4.920	(0.886)	47721	18.4948	18.49
	33	1,2-Dichloroethane	62	5.171	5.171	(0.932)	51948	19.9607	19.96
	34	Carbon Tetrachloride	117	4.905	4.909	(0.884)	36940	18.2760	18.27
$	35	1,2-Dichloroethane-d4	65	5.092	5.096	(1.058)	109707	58.9454	58.94
*	36	1,4-Difluorobenzene	114	5.550	5.550	(1.000)	356245	50.0000	
	37	Benzene	78	5.134	5.134	(0.925)	147057	17.5256	17.52
	38	Trichloroethene	130	5.782	5.786	(1.042)	36974	17.9030	17.90
	39	Bromodichloromethane	83	6.273	6.277	(1.130)	40227	17.8249	17.82
	40	Methyl Methacrylate	41	5.820	5.820	(1.210)	14949	18.3084	18.30(a)
	41	2-Chloroethylvinyl ether	63	6.573	6.573	(1.184)	22962	34.2024	34.20
	42	1,2-Dichloropropane	63	6.003	6.007	(1.082)	38854	17.5566	17.55
	43	2-Nitropropane	43	6.506	6.506	(1.352)	7162	18.8477	18.84
	44	Dibromomethane	93	6.116	6.116	(1.102)	22517	17.5211	17.52
	45	4-Methyl-2-Pentanone	43	6.851	6.851	(0.837)	78102	36.7710	36.77
	46	cis-1,3-Dichloropropene	75	6.689	6.689	(1.205)	46892	16.6233	16.62
*	47	Chlorobenzene-d5	117	8.181	8.181	(1.000)	322541	50.0000	
$	48	Toluene-d8	98	6.918	6.918	(0.846)	341726	55.5386	55.53(M)
	49	Ethyl Methacrylate	69	7.285	7.289	(1.313)	44817	16.2640	16.26(a)
	50	Toluene	91	6.978	6.978	(0.853)	150856	17.2302	17.23
	51	trans-1,3-Dichloropropene	75	7.192	7.196	(1.296)	38270	16.7948	16.79
	52	2-Hexanone	43	7.589	7.589	(0.928)	50279	37.3280	37.32
	53	1,1,2-Trichloroethane	83	7.353	7.353	(0.899)	29893	19.3600	19.35
	54	1,3-Dichloropropane	76	7.495	7.495	(0.916)	63962	17.9352	17.93
	55	Dibromochloromethane	129	7.690	7.690	(0.940)	31132	17.3848	17.38
	56	Tetrachloroethene	164	7.454	7.454	(0.911)	29045	18.9946	18.99
	57	1,2-Dibromoethane	107	7.780	7.780	(0.951)	33641	17.4719	17.47
	58	1-Chlorohexane	55	8.193	8.193	(1.476)	28807	19.3607	19.36
	59	Chlorobenzene	112	8.208	8.208	(1.003)	98419	17.7045	17.70
	60	1,1,1,2-Tetrachloroethane	131	8.279	8.283	(1.012)	32540	18.3435	18.34
	61	Ethylbenzene	106	8.305	8.305	(1.015)	48691	19.2214	19.22
	62	m,p-Xylenes	106	8.406	8.406	(1.027)	123141	36.9954	36.99
	63	o-Xylene	106	8.744	8.744	(1.069)	60349	18.6132	18.61
	64	Styrene	104	8.759	8.759	(1.071)	99171	18.5760	18.57
	66	Bromoform	173	8.916	8.916	(1.090)	18200	16.2826	16.28
	67	Isopropylbenzene	105	9.059	9.059	(1.107)	148000	19.2244	19.22
	68	1,1,2,2-Tetrachloroethane	83	9.325	9.325	(0.917)	50422	17.3467	17.34
$	69	4-Bromofluorobenzene	95	9.190	9.190	(1.123)	124654	55.5831	55.58(M)
*	70	1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	174869	50.0000	
	71	1,2,3-Trichloropropane	75	9.358	9.359	(0.920)	46436	17.0363	17.03
	72	trans-1,4-Dichloro-2-butene	53	9.373	9.374	(1.146)	8724	15.8307	15.83(a)
	73	n-Propylbenzene	91	9.411	9.411	(0.926)	171739	18.2241	18.22
	74	Bromobenzene	156	9.314	9.314	(0.916)	41584	17.2937	17.29
	75	1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	119355	18.7313	18.73

76	2-Chlorotoluene	91	9.478	9.479 (0.932)	105213	19.1478	19.14
77	4-Chlorotoluene	91	9.572	9.572 (0.941)	124072	18.3368	18.33

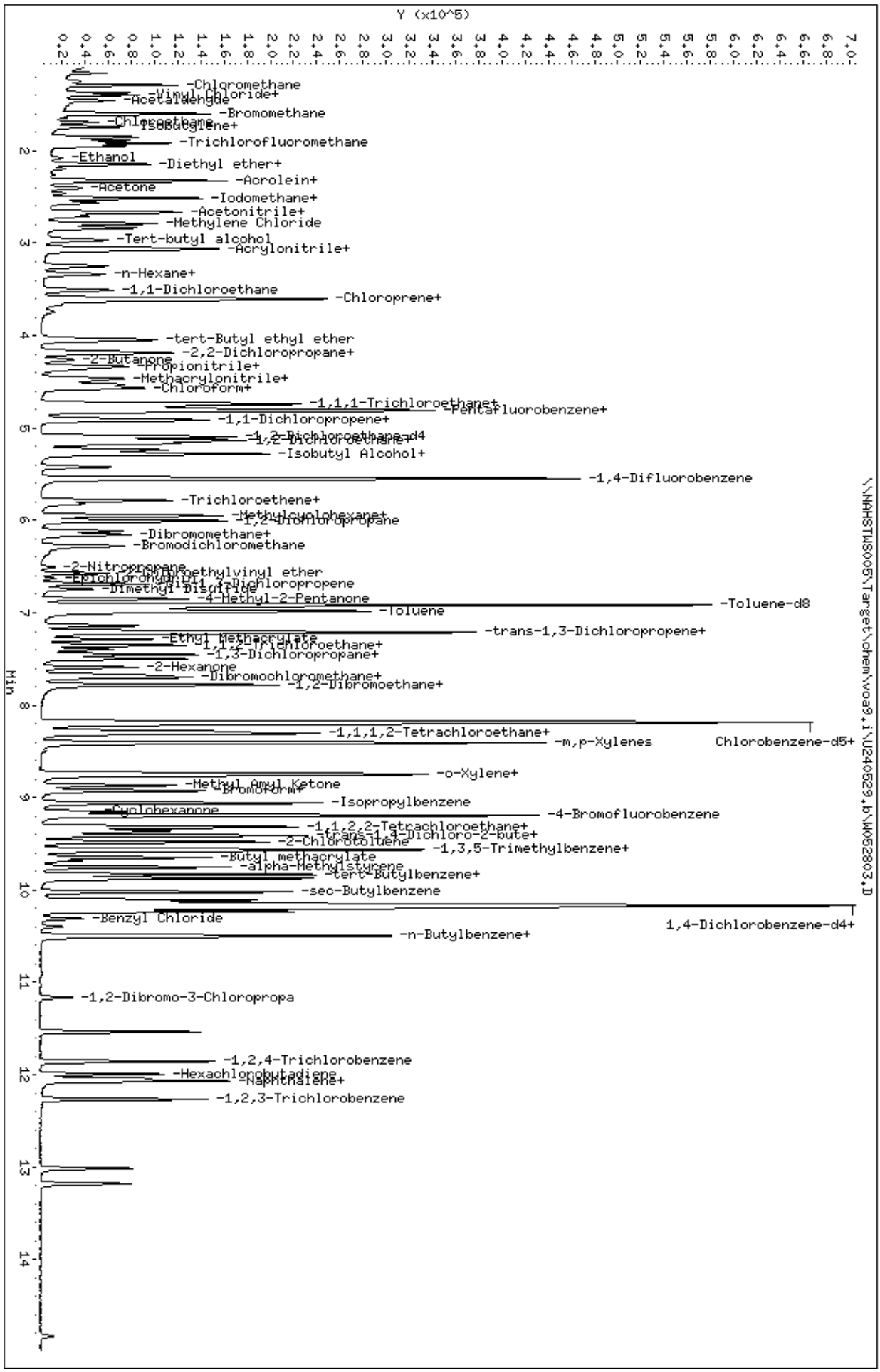
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
78	tert-Butylbenzene	119	9.835	9.835	(0.967)	104174	19.6893	19.68
79	1,2,4-Trimethylbenzene	105	9.876	9.876	(0.971)	119962	17.3021	17.30
81	sec-Butylbenzene	105	10.018	10.018	(0.985)	139260	19.3935	19.39
82	p-Isopropyltoluene	119	10.142	10.142	(0.997)	118041	18.8640	18.86
83	1,3-Dichlorobenzene	146	10.112	10.112	(0.994)	73420	18.0809	18.08(M)
84	1,4-Dichlorobenzene	146	10.187	10.187	(1.002)	78747	17.5113	17.51
86	Benzyl Chloride	91	10.311	10.307	(1.260)	24415	10.6009	10.60
87	n-Butylbenzene	91	10.491	10.491	(1.032)	101002	18.4240	18.42
88	1,2-Dichlorobenzene	146	10.502	10.502	(1.033)	74391	17.6821	17.68(M)
89	1,2-Dibromo-3-Chloropropane	155	11.165	11.165	(1.098)	5187	15.1190	15.11
90	1,2,4-Trichlorobenzene	180	11.855	11.855	(1.166)	46106	17.3925	17.39
91	Hexachlorobutadiene	225	11.994	11.994	(1.180)	19450	18.2866	18.28
92	Naphthalene	128	12.065	12.065	(1.187)	113120	17.7815	17.78
93	1,2,3-Trichlorobenzene	180	12.267	12.268	(1.206)	44106	17.8600	17.85
146	Methyl acetate	43	2.708	2.712	(0.563)	37940	19.9783	19.97
138	Freon TF	101	2.326	2.330	(0.483)	25864	19.8706	19.87
141	Cyclohexane	56	4.778	4.781	(0.993)	48001	20.5747	20.57
142	Tetrahydrofuran	42	4.538	4.541	(0.943)	14669	42.0835	42.08
147	Methylcyclohexane	55	5.943	5.943	(1.071)	79821	18.8818	18.88
135	1,4-Dioxane	88	6.165	6.165	(1.281)	8777	350.935	350.93
132	n-Butanol	56	5.820	5.820	(1.210)	19407	297.874	297.87(a)
136	n-Hexane	57	3.334	3.338	(0.693)	26249	17.0539	17.05
139	Diethyl ether	59	2.139	2.142	(0.445)	26012	20.5232	20.52
148	Tert-butyl alcohol	59	2.963	2.971	(0.616)	61873	370.035	370.03
149	Isopropyl alcohol	45	2.558	2.566	(0.532)	48516	372.972	372.97
152	Amyl alcohol	42	7.394	7.394	(0.904)	22297	334.290	334.29
156	Diisopropyl ether	45	3.615	3.619	(0.751)	115511	18.7059	18.70
162	Butyl acrylate	55	8.732	8.729	(1.067)	57096	17.5451	17.54
187	n-Amyl acetate	43	8.927	8.927	(1.091)	62063	17.7213	17.72
164	Dicyclopentadiene	66	10.194	10.198	(1.003)	165360	18.4370	18.43
166	1,2,3-Trimethylbenzene	105	10.232	10.232	(1.006)	110776	18.6418	18.64
167	Ethanol	45	2.079	2.086	(0.432)	9973	407.824	407.82
172	tert-Butyl formate	59	5.239	5.239	(1.089)	60620	31.7313	31.73
173	3,3-Dimethyl-1-butanol	57	7.780	7.780	(0.951)	72645	323.589	323.58
174	tert-Amyl methyl ether	73	5.280	5.284	(1.097)	99543	17.5901	17.59
175	tert-Butyl ethyl ether	59	4.043	4.047	(0.840)	99704	18.0250	18.02
176	tert-Amyl alcohol	59	5.239	5.239	(1.089)	60620	313.663	313.66
151	4-Methyl-2-pentanol	45	7.214	7.214	(1.300)	200070	360.095	360.09
140	1,3-Butadiene	54	1.396	1.400	(0.290)	17763	19.8506	19.85
182	Epichlorohydrin	57	6.629	6.630	(1.195)	8035	68.1899	68.18
M 94	1,2-Dichloroethylene (total)	96				70113	34.8012	34.80
M 95	Xylenes (total)	106				183490	56.7010	56.70
145	alpha-Methylstyrene	118	9.752	9.752	(0.959)	46279	17.9983	17.99
130	Ethyl Acetate	43	4.335	4.339	(0.901)	39778	17.8572	17.85
131	Methyl Acrylate	55	4.365	4.365	(0.907)	41974	19.0567	19.05
189	n-Butyl acetate	43	7.702	7.702	(0.941)	56987	16.8298	16.82
134	Cyclohexanone	55	9.152	9.149	(0.900)	29730	308.732	308.73(a)
185	Isoprene	39	2.150	2.154	(0.447)	7651	20.6089	20.60
188	Isopropyl acetate	43	5.280	5.280	(0.951)	105424	17.8353	17.83
150	Allyl alcohol	57	3.334	3.338	(0.693)	26249	341.078	341.07
194	Acetaldehyde	44	1.456	1.460	(0.303)	30662	77.9031	77.90(M)
195	Methyl Amyl Ketone	43	8.864	8.864	(1.083)	66699	16.9754	16.97

200 Dimethyl Disulfide	94	6.742	6.742 (0.824)	16699	14.7200	14.72
202 Isobutylene	41	1.741	1.745 (0.362)	15959	21.5914	21.59(M)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
133 Ethyl Acrylate	55	5.943	5.943	(1.235)	79821	19.3011	19.30
163 Butyl methacrylate	41	9.647	9.647	(0.949)	42991	21.2467	21.24
159 Propylene oxide	43	2.195	2.199	(0.456)	5482	39.4738	39.47
203 2-Ethylhexyl Acrylate	55	12.039	12.039	(1.184)	34791	17.5545	17.55

QC Flag Legend

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



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Sample Info: VLCSW-240529;VLCSW-240529;3;LCS
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9.i
Operator: FT
Column diameter: 0.18

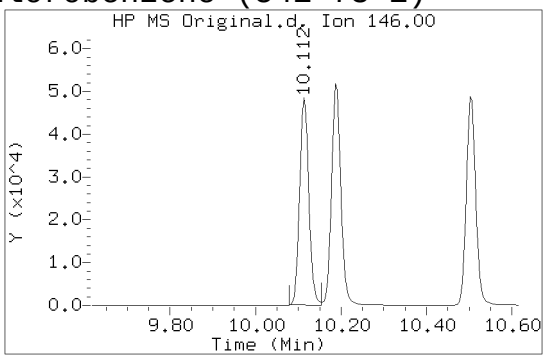
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LabSampID : VLCSW-240529

1,3-Dichlorobenzene (541-73-1)

Reason Code:

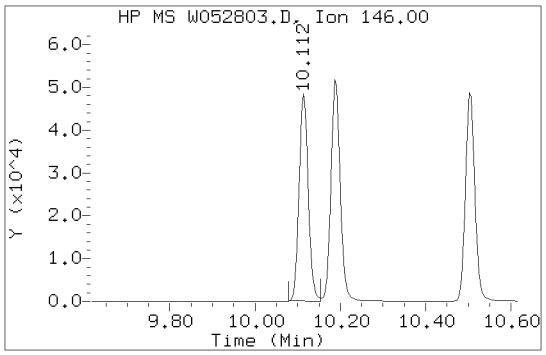
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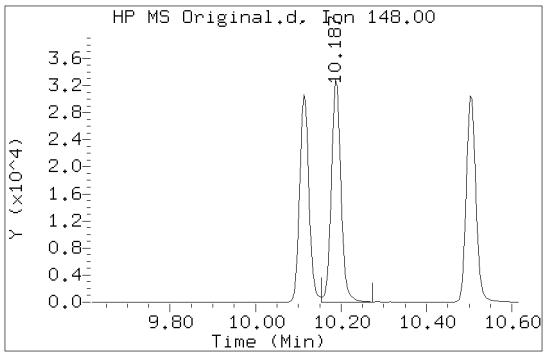
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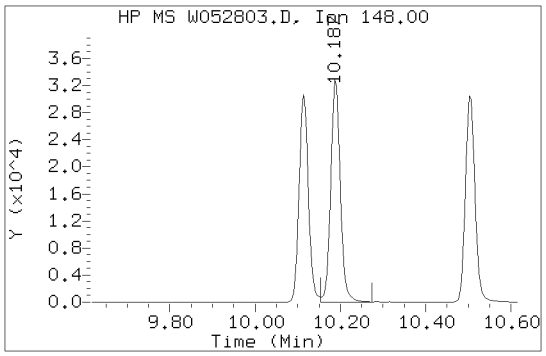
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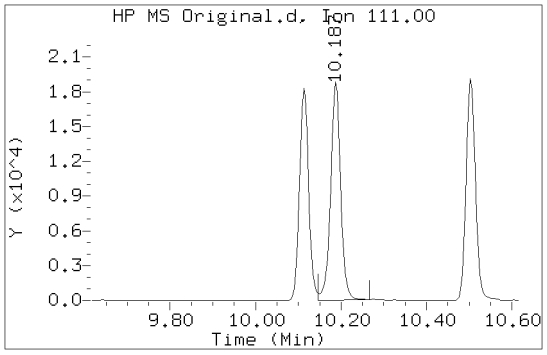
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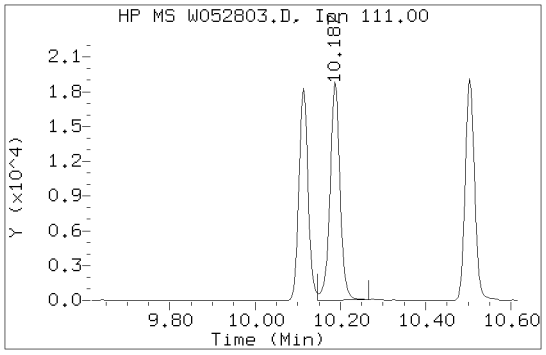
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AFTER

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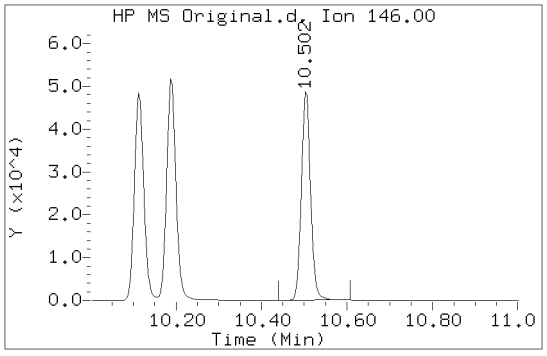


1,2-Dichlorobenzene (95-50-1)

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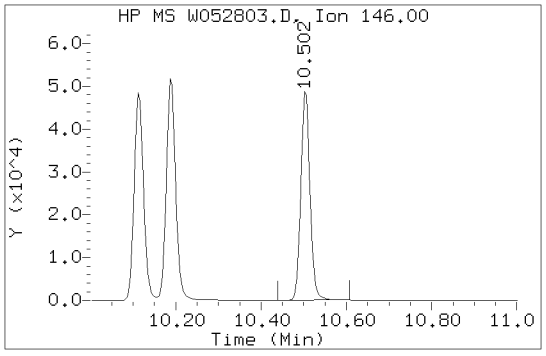
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AFTER

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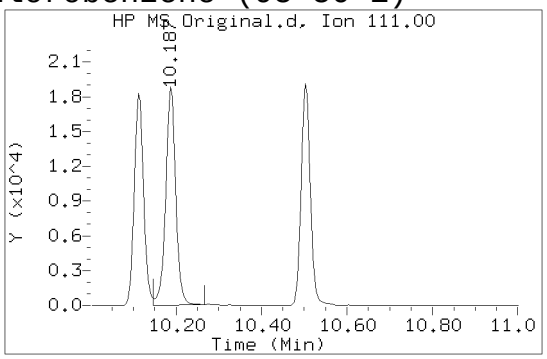
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InstruID : VOA9.i
LabSampID : VLCSW-240529

1,2-Dichlorobenzene (95-50-1)

Reason Code:

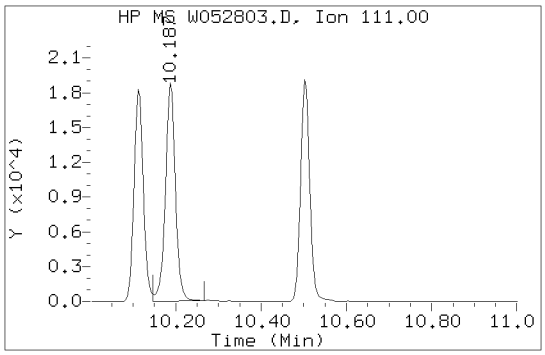
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PATEL



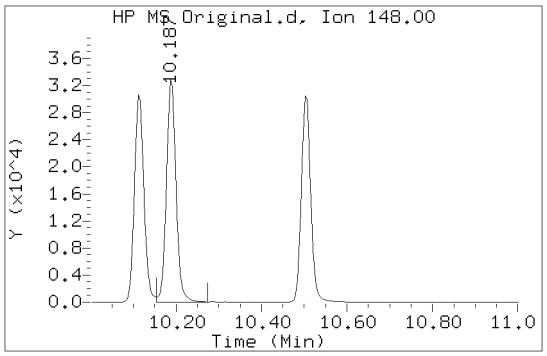
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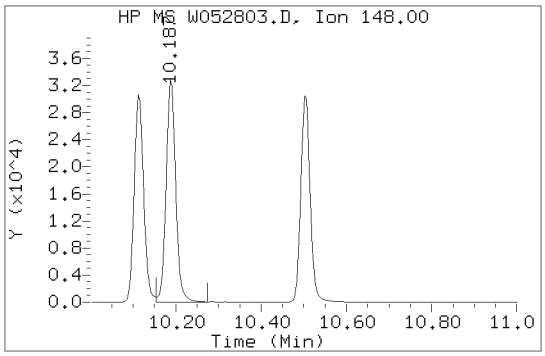
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AFTER

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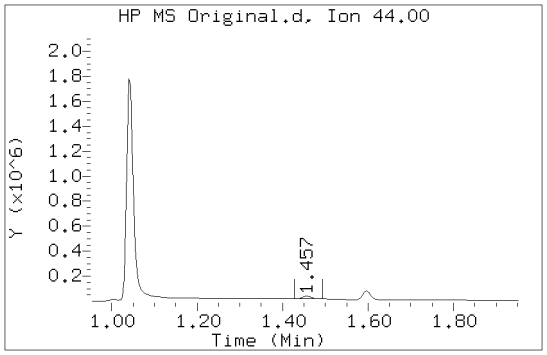


Acetaldehyde (75-07-0)

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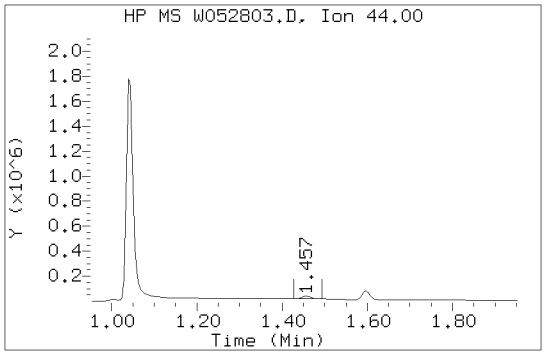
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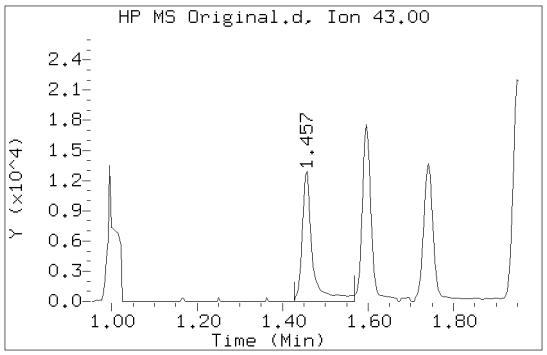
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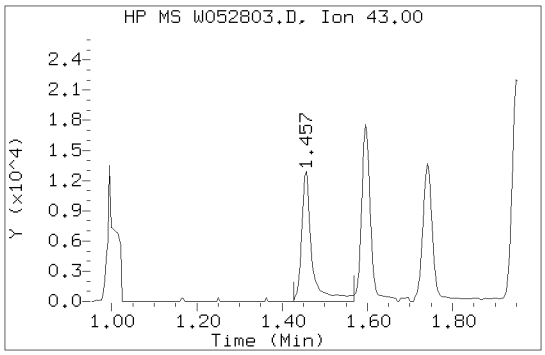
BEFORE

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22-Jun-2024
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AFTER

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22-Jun-2024
11:24
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PATEL



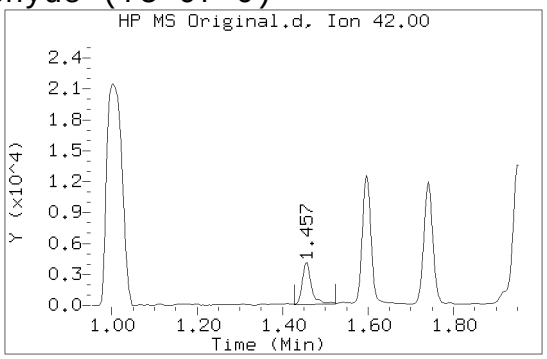
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LabSampID : VLCSW-240529

Acetaldehyde (75-07-0)

Reason Code:

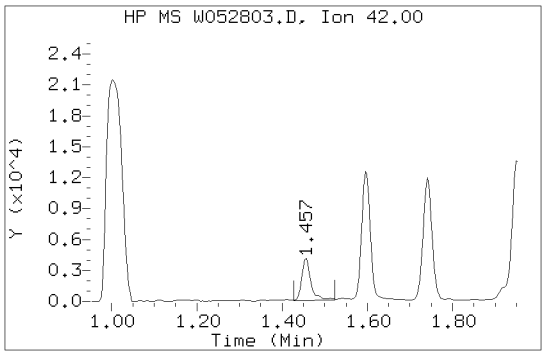
BEFORE

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22-Jun-2024
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PATEL



AFTER

MASS
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22-Jun-2024
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PATEL

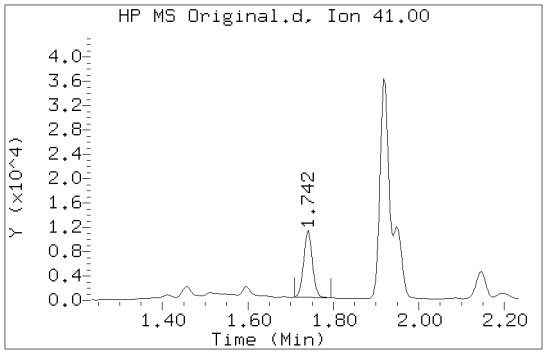


Isobutylene (115-11-7)

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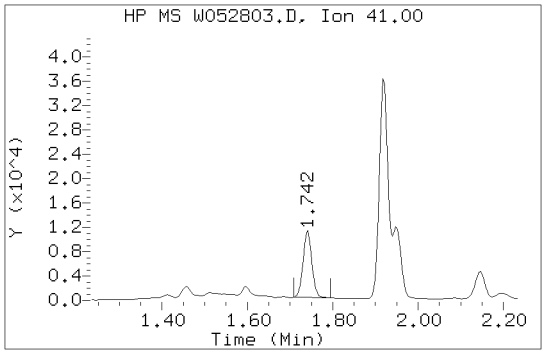
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22-Jun-2024
11:24
RUCHA
PATEL



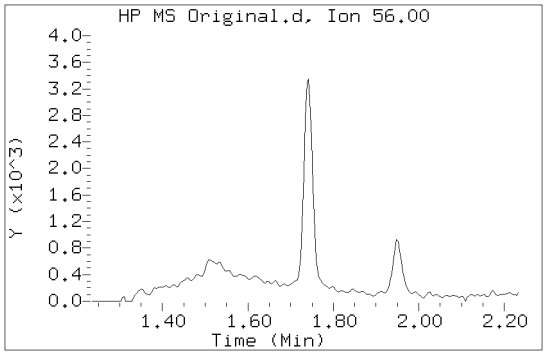
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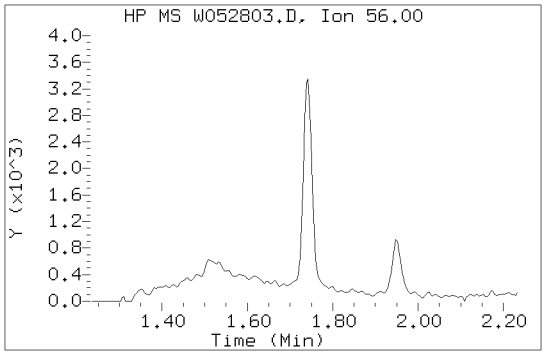
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22-Jun-2024
11:24
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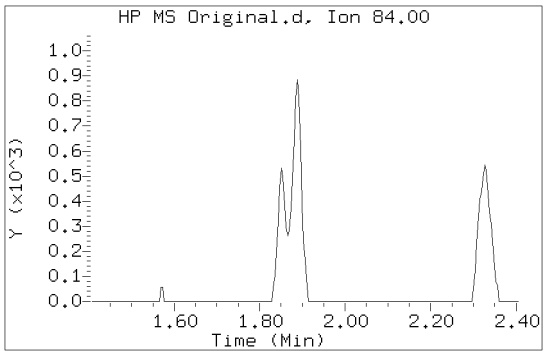
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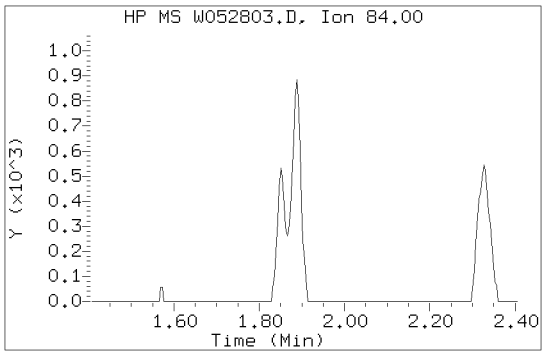
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AFTER

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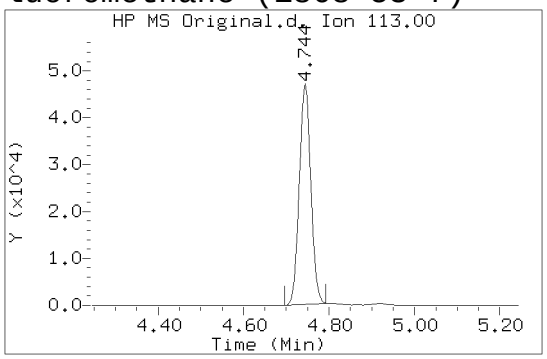
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Inj Date : 30-MAY-2024 03:50
InstruID : VOA9.i
LabSampID : VLCSW-240529

Dibromofluoromethane (1868-53-7)

Reason Code:

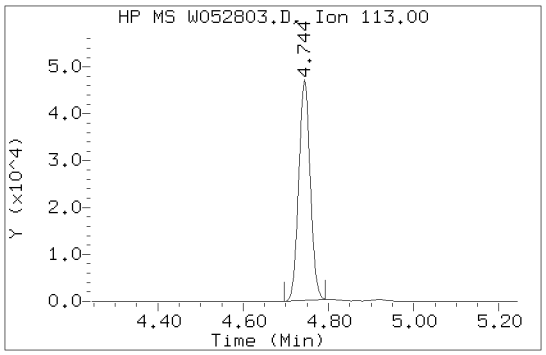
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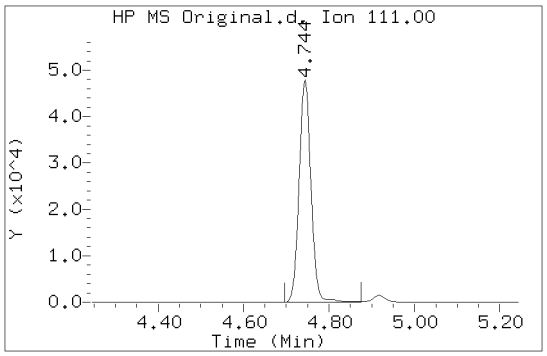
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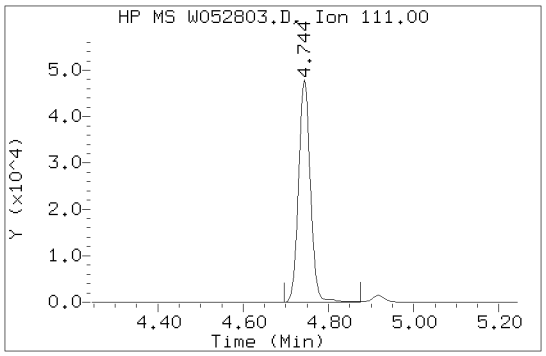
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AFTER

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11:24
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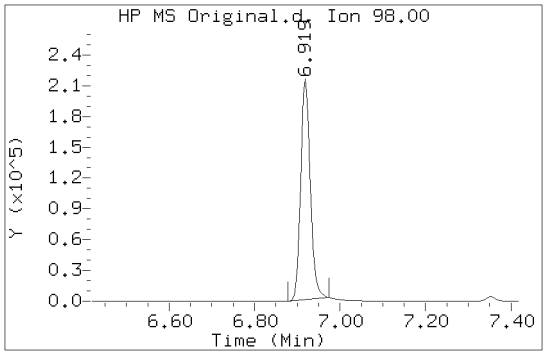


Toluene-d8 (2037-26-5)

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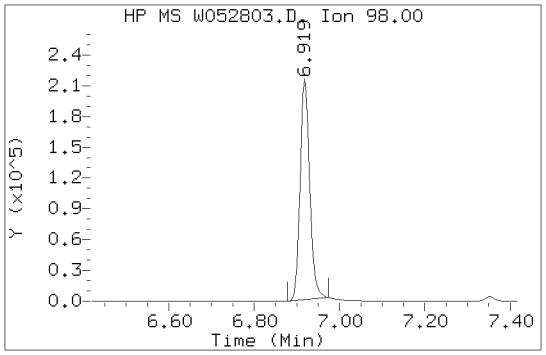
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RUCHA
PATEL



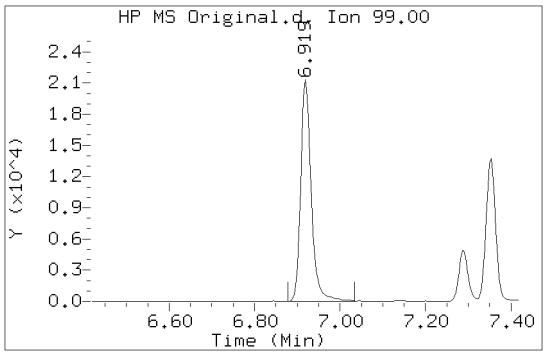
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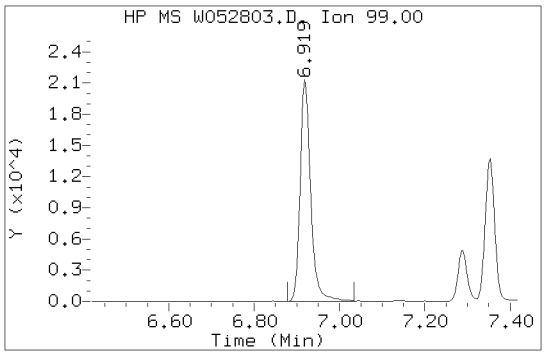
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22-Jun-2024
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AFTER

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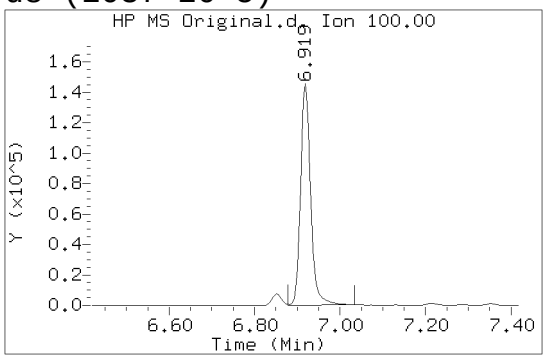
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Inj Date : 30-MAY-2024 03:50
InstruID : VOA9.i
LabSampID : VLCSW-240529

Toluene-d8 (2037-26-5)

Reason Code:

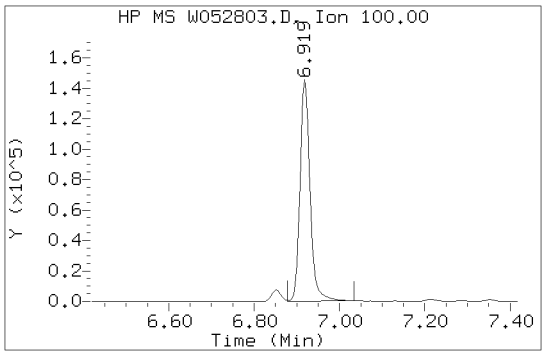
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AFTER

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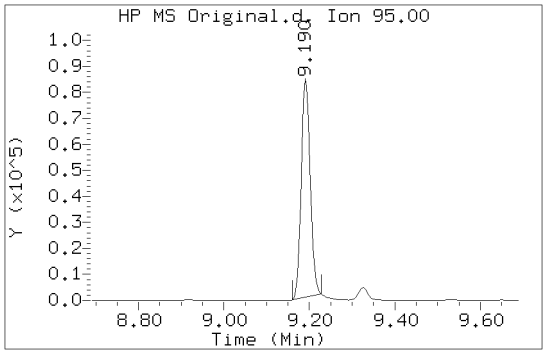


4-Bromofluorobenzene (460-00-4)

Reason Code:

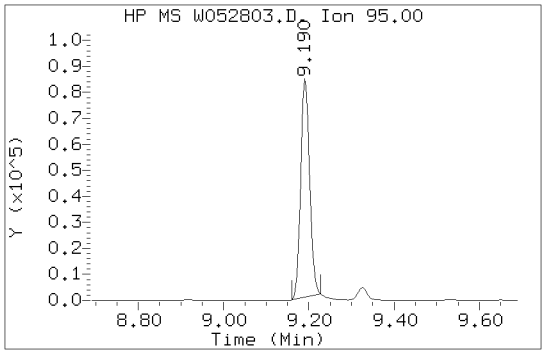
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22-Jun-2024
11:24
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PATEL



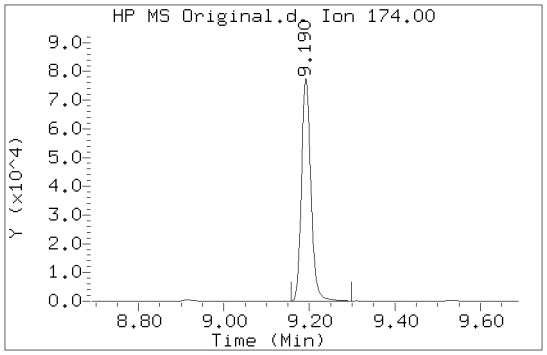
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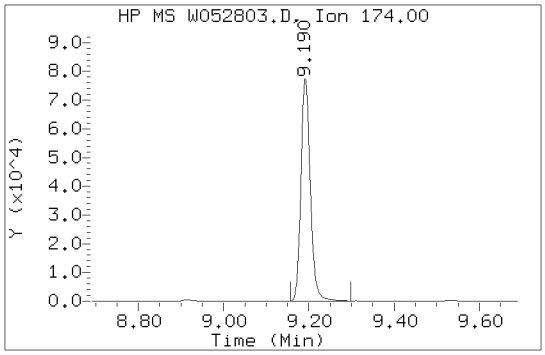
BEFORE

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22-Jun-2024
11:24
RUCHA
PATEL



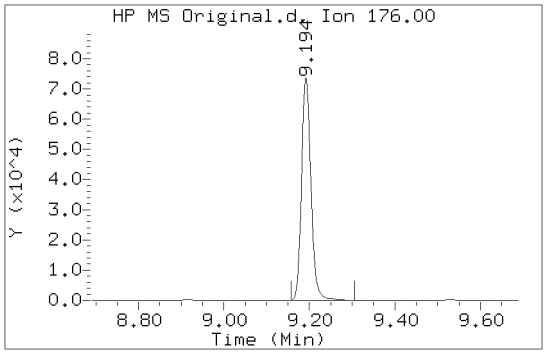
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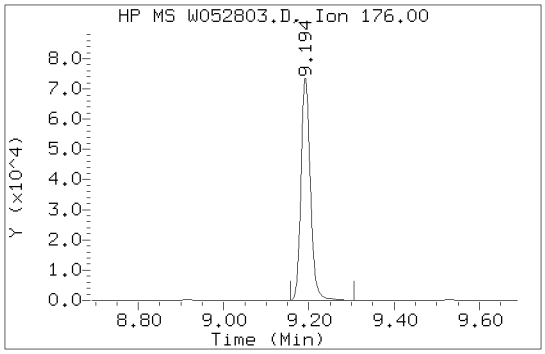
BEFORE

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22-Jun-2024
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AFTER

MASS
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HEIGHT
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22-Jun-2024
11:24
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PATEL



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240529.b\W052806.D Page 1
Report Date: 22-Jun-2024 11:25

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\W052806.D
Lab Smp Id: VBLKW-240529 Client Smp ID: VBLKW-240529
Inj Date : 30-MAY-2024 04:55
Operator : FT Inst ID: VOA9.i
Smp Info : VBLKW-240529;VBLKW-240529;3;;BLANK
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240529.b\8260C.m
Meth Date : 22-Jun-2024 11:25 VOA9.i Quant Type: ISTD
Cal Date : 29-MAY-2024 13:53 Cal File: U052911.D
Als bottle: 48 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

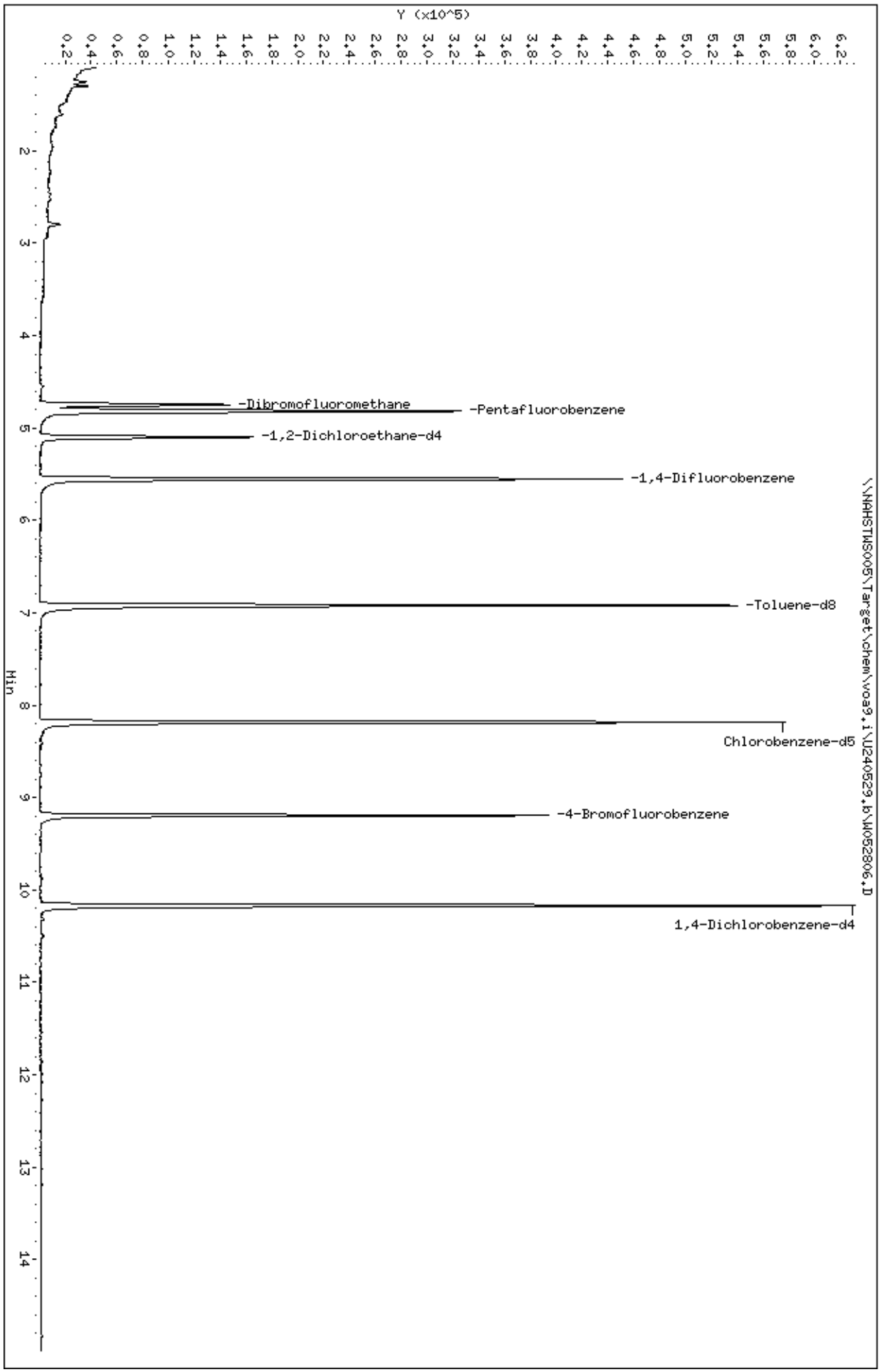
Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

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	4.815	4.811	(1.000)	239080	50.0000	
$	30 Dibromofluoromethane	113	4.748	4.744	(0.986)	85826	56.3558	56.35
$	35 1,2-Dichloroethane-d4	65	5.096	5.096	(1.058)	107166	58.2526	58.25
*	36 1,4-Difluorobenzene	114	5.554	5.550	(1.000)	352784	50.0000	
*	47 Chlorobenzene-d5	117	8.185	8.181	(1.000)	319606	50.0000	
$	48 Toluene-d8	98	6.922	6.918	(0.846)	340067	55.7756	55.77
$	69 4-Bromofluorobenzene	95	9.190	9.190	(1.123)	121224	54.5482	54.54
*	70 1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	164930	50.0000	

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240529.b\W052806.D
Date : 30-MAY-2024 04:55
Client ID: VBLKW-240529
Sample Info: VBLKW-240529;VBLKW-240529;3;;BLANK
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9.i
Operator: FT
Column diameter: 0.18



Data File : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\W052806.D
Inj Date : 30-MAY-2024 04:55
InstruID : VOA9.i
LabSampID : VBLKW-240529

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240529.b\W052809.D Page 1
Report Date: 22-Jun-2024 11:25

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\W052809.D
Lab Smp Id: HS24051490-03MS Client Smp ID: HS24051490-03MS
Inj Date : 30-MAY-2024 05:59
Operator : FT Inst ID: VOA9.i
Smp Info : HS24051490-03MS;HS24051490-03MS;3;;MS
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240529.b\8260C.m
Meth Date : 22-Jun-2024 11:25 VOA9.i Quant Type: ISTD
Cal Date : 29-MAY-2024 13:53 Cal File: U052911.D
Als bottle: 51 QC Sample: MS
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	4.815	4.811	(1.000)	247550	50.0000	
2 Dichlorodifluoromethane	85	1.168	1.160	(0.243)	19303	20.9168	20.91
3 Chloromethane	50	1.299	1.295	(0.270)	77193	22.9962	22.99
4 Propionitrile	54	4.343	4.335	(0.902)	49411	182.302	182.30(a)
5 Vinyl Chloride	62	1.381	1.374	(0.287)	37408	20.0110	20.01
6 Bromomethane	94	1.614	1.606	(0.335)	15215	17.3507	17.35
7 Chloroethane	64	1.700	1.692	(0.353)	26926	20.7479	20.74
8 Trichlorofluoromethane	101	1.899	1.891	(0.394)	47965	21.6066	21.60
9 Acrolein	56	2.266	2.262	(0.471)	2440	26.5524	26.55
10 Acetone	43	2.412	2.408	(0.501)	25067	32.2919	32.29
11 1,1-Dichloroethene	96	2.333	2.330	(0.485)	31139	19.0815	19.08
12 Isobutyl Alcohol	43	5.284	5.280	(1.097)	90641	345.385	345.38(a)
13 Acetonitrile	39	2.675	2.667	(0.555)	35930	178.929	178.92(a)
14 Allyl Chloride	41	2.675	2.671	(0.555)	87536	18.1967	18.19(a)
15 Iodomethane	142	2.468	2.465	(0.513)	10809	62.8337	62.83
16 Acrylonitrile	53	3.072	3.064	(0.638)	24503	35.5317	35.53
17 Methylene Chloride	84	2.798	2.791	(0.581)	36975	18.7275	18.72
18 Methyl tert-butyl ether	73	3.083	3.079	(0.640)	81743	17.8108	17.81
19 Carbon Disulfide	76	2.521	2.517	(0.524)	161499	35.2785	35.27
20 trans-1,2-Dichloroethene	96	3.061	3.053	(0.636)	32486	17.6048	17.60

21 Vinyl Acetate	43	4.343	4.339 (0.902)	30790	28.2238	28.22
22 1,1-Dichloroethane	63	3.514	3.511 (0.730)	62340	17.5859	17.58

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
	23 Chloroprene	53	3.612	3.604	(0.750)	51347	19.7539	19.75
	24 2-Butanone	43	4.268	4.264	(0.886)	33962	30.6994	30.69
	25 Methacrylonitrile	41	4.496	4.493	(0.934)	18537	16.6635	16.66(a)
	26 2,2-Dichloropropane	77	4.182	4.178	(0.868)	29445	12.6554	12.65
	27 cis-1,2-Dichloroethene	96	4.197	4.193	(0.872)	38325	16.8166	16.81
	28 Chloroform	83	4.575	4.568	(0.950)	63849	18.0393	18.03
	29 Bromochloromethane	128	4.470	4.467	(0.928)	18892	18.1857	18.18
$	30 Dibromofluoromethane	113	4.748	4.744	(0.986)	93192	59.0335	59.03
	31 1,1,1-Trichloroethane	97	4.744	4.740	(0.985)	49682	20.0437	20.04
	32 1,1-Dichloropropene	75	4.920	4.920	(0.886)	47892	18.3158	18.31
	33 1,2-Dichloroethane	62	5.175	5.171	(0.932)	51914	19.6925	19.69
	34 Carbon Tetrachloride	117	4.913	4.909	(0.885)	38856	18.9699	18.96
$	35 1,2-Dichloroethane-d4	65	5.096	5.096	(1.058)	110451	57.9860	57.98
*	36 1,4-Difluorobenzene	114	5.554	5.550	(1.000)	361014	50.0000	
	37 Benzene	78	5.138	5.134	(0.925)	149173	17.5429	17.54
	38 Trichloroethene	130	5.790	5.786	(1.043)	37704	18.0153	18.01
	39 Bromodichloromethane	83	6.277	6.277	(1.130)	38939	17.0263	17.02
	40 Methyl Methacrylate	41	5.827	5.820	(1.210)	13677	16.4221	16.42(a)
	42 1,2-Dichloropropane	63	6.007	6.007	(1.082)	39744	17.7216	17.72
	43 2-Nitropropane	43	6.510	6.506	(1.352)	6536	17.0262	17.02
	44 Dibromomethane	93	6.120	6.116	(1.102)	22238	17.0754	17.07
	45 4-Methyl-2-Pentanone	43	6.851	6.851	(0.837)	73099	33.5526	33.55
	46 cis-1,3-Dichloropropene	75	6.689	6.689	(1.205)	44669	15.6854	15.68
*	47 Chlorobenzene-d5	117	8.185	8.181	(1.000)	331461	50.0000	
$	48 Toluene-d8	98	6.922	6.918	(0.846)	358121	56.6328	56.63
	49 Ethyl Methacrylate	69	7.289	7.289	(1.312)	41927	15.0142	15.01(a)
	50 Toluene	91	6.978	6.978	(0.853)	152889	16.9925	16.99
	51 trans-1,3-Dichloropropene	75	7.196	7.196	(1.296)	35350	15.4227	15.42
	52 2-Hexanone	43	7.589	7.589	(0.927)	44255	32.2615	32.26
	53 1,1,2-Trichloroethane	83	7.353	7.353	(0.898)	28790	18.1258	18.12
	54 1,3-Dichloropropane	76	7.495	7.495	(0.916)	61280	16.7207	16.72
	55 Dibromochloromethane	129	7.690	7.690	(0.940)	30388	16.5656	16.56
	56 Tetrachloroethene	164	7.454	7.454	(0.911)	30235	19.2407	19.24
	57 1,2-Dibromoethane	107	7.784	7.780	(0.951)	32107	16.2265	16.22
	58 1-Chlorohexane	55	8.193	8.193	(1.475)	28964	19.2030	19.20
	59 Chlorobenzene	112	8.208	8.208	(1.003)	98795	17.2939	17.29
	60 1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	31920	17.5098	17.50
	61 Ethylbenzene	106	8.305	8.305	(1.015)	48869	18.7758	18.77
	62 m,p-Xylenes	106	8.406	8.406	(1.027)	124395	36.3545	36.35
	63 o-Xylene	106	8.744	8.744	(1.068)	59643	17.9313	17.93
	64 Styrene	104	8.759	8.759	(1.070)	96158	17.5269	17.52
	66 Bromoform	173	8.916	8.916	(1.089)	16898	14.8724	14.87
	67 Isopropylbenzene	105	9.059	9.059	(1.107)	149273	18.8679	18.86
	68 1,1,2,2-Tetrachloroethane	83	9.325	9.325	(0.917)	47117	15.7451	15.74
$	69 4-Bromofluorobenzene	95	9.190	9.190	(1.123)	130140	56.4692	56.46(M)
*	70 1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	180029	50.0000	
	71 1,2,3-Trichloropropane	75	9.359	9.359	(0.920)	43510	15.5053	15.50
	72 trans-1,4-Dichloro-2-butene	53	9.374	9.374	(1.145)	8275	14.6119	14.61(a)
	73 n-Propylbenzene	91	9.411	9.411	(0.926)	172704	17.8012	17.80
	74 Bromobenzene	156	9.317	9.314	(0.916)	42168	17.0339	17.03
	75 1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	117412	17.8925	17.89
	76 2-Chlorotoluene	91	9.478	9.479	(0.932)	106926	18.8972	18.89

77	4-Chlorotoluene	91	9.572	9.572 (0.941)	124560	17.8813	17.88
78	tert-Butylbenzene	119	9.835	9.835 (0.967)	105349	19.3407	19.34

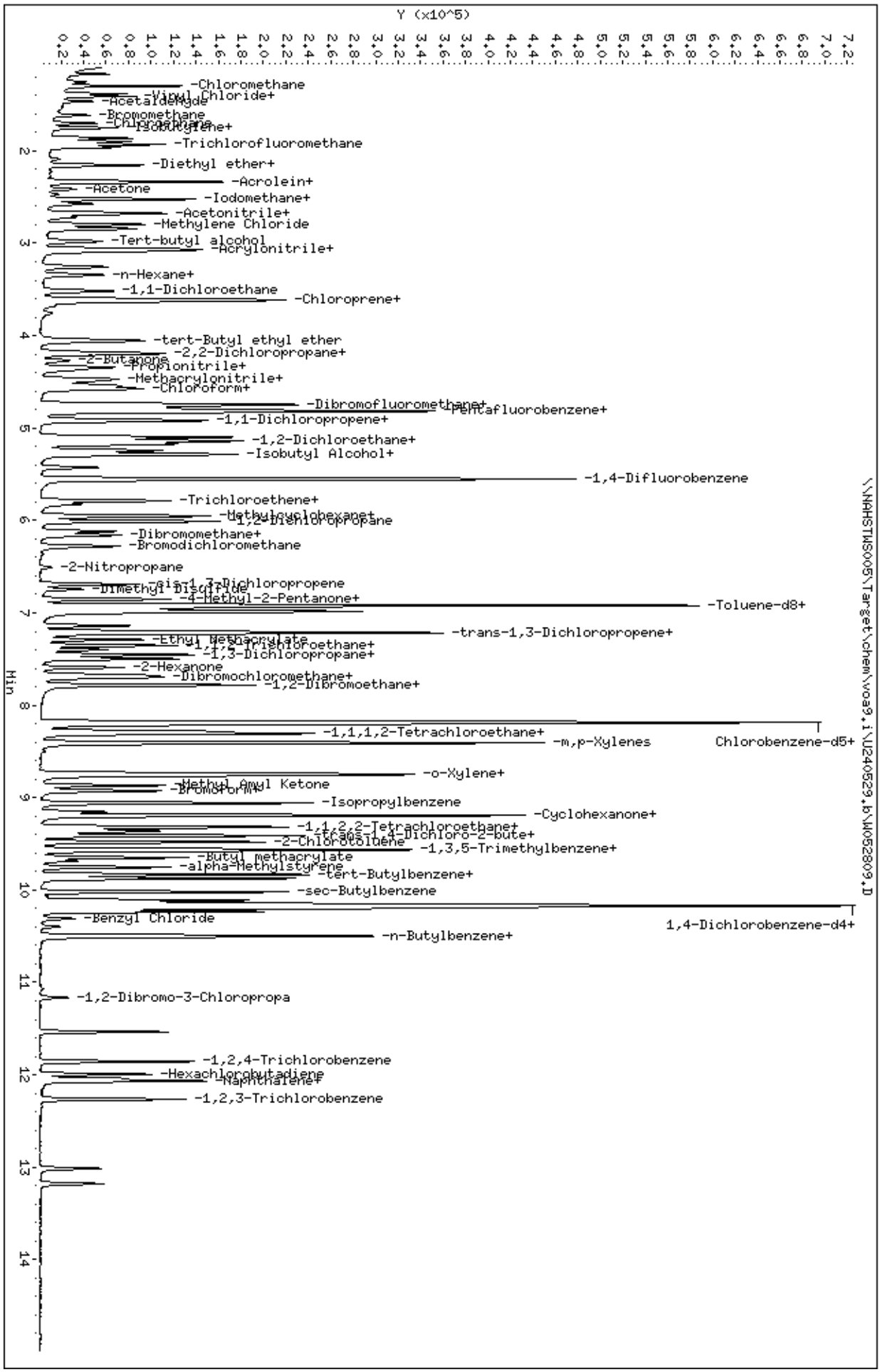
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
79	1,2,4-Trimethylbenzene	105	9.876	9.876	(0.971)	115004	15.9911	15.99
81	sec-Butylbenzene	105	10.018	10.018	(0.985)	139232	18.8339	18.83
82	p-Isopropyltoluene	119	10.146	10.142	(0.998)	116482	18.0813	18.08
83	1,3-Dichlorobenzene	146	10.112	10.112	(0.994)	70465	16.8559	16.85(M)
84	1,4-Dichlorobenzene	146	10.187	10.187	(1.002)	77242	16.6843	16.68
86	Benzyl Chloride	91	10.311	10.307	(1.260)	19135	8.37668	8.37
87	n-Butylbenzene	91	10.491	10.491	(1.032)	97023	17.2192	17.21
88	1,2-Dichlorobenzene	146	10.502	10.502	(1.033)	73621	16.9975	16.99(M)
89	1,2-Dibromo-3-Chloropropane	155	11.165	11.165	(1.098)	5124	14.5479	14.54
90	1,2,4-Trichlorobenzene	180	11.855	11.855	(1.166)	41630	15.2539	15.25
91	Hexachlorobutadiene	225	11.994	11.994	(1.180)	17938	16.3817	16.38
92	Naphthalene	128	12.065	12.065	(1.187)	99135	15.1301	15.13
93	1,2,3-Trichlorobenzene	180	12.268	12.268	(1.206)	39907	15.6965	15.69
146	Methyl acetate	43	2.720	2.712	(0.565)	28204	14.5804	14.58
138	Freon TF	101	2.337	2.330	(0.485)	26918	20.1930	20.19
141	Cyclohexane	56	4.785	4.781	(0.994)	49499	20.7356	20.73
142	Tetrahydrofuran	42	4.545	4.541	(0.944)	13022	36.2898	36.28
147	Methylcyclohexane	55	5.947	5.943	(1.071)	75241	17.6187	17.61
135	1,4-Dioxane	88	6.168	6.165	(1.281)	8419	328.042	328.04
132	n-Butanol	56	5.824	5.820	(1.209)	18711	280.579	280.57(a)
136	n-Hexane	57	3.342	3.338	(0.694)	26287	16.7025	16.70
139	Diethyl ether	59	2.150	2.142	(0.447)	24065	18.5115	18.51
148	Tert-butyl alcohol	59	2.978	2.971	(0.619)	59043	344.001	344.00
149	Isopropyl alcohol	45	2.573	2.566	(0.534)	46471	348.396	348.39
152	Amyl alcohol	42	7.398	7.394	(0.904)	21307	312.446	312.44
156	Diisopropyl ether	45	3.627	3.619	(0.753)	107167	16.9551	16.95
162	Butyl acrylate	55	8.733	8.729	(1.067)	53243	16.0207	16.02
187	n-Amyl acetate	43	8.927	8.927	(1.091)	48621	13.5095	13.50
164	Dicyclopentadiene	66	10.198	10.198	(1.003)	146278	15.8419	15.84
166	1,2,3-Trimethylbenzene	105	10.232	10.232	(1.006)	103650	17.0101	17.01
167	Ethanol	45	2.090	2.086	(0.434)	9183	365.675	365.67
172	tert-Butyl formate	59	5.242	5.239	(1.089)	56807	29.0508	29.05
173	3,3-Dimethyl-1-butanol	57	7.780	7.780	(0.951)	67546	292.779	292.77
174	tert-Amyl methyl ether	73	5.287	5.284	(1.098)	91293	15.7609	15.76
175	tert-Butyl ethyl ether	59	4.054	4.047	(0.842)	90452	15.9759	15.97
176	tert-Amyl alcohol	59	5.242	5.239	(1.089)	56807	287.167	287.16
151	4-Methyl-2-pentanol	45	7.214	7.214	(1.299)	184365	329.024	329.02
140	1,3-Butadiene	54	1.408	1.400	(0.292)	18783	20.5072	20.50
182	Epichlorohydrin	57	6.851	6.630	(1.234)	16211	131.756	131.75(M)
M 94	1,2-Dichloroethylene (total)	96				70811	34.3385	34.33
M 95	Xylenes (total)	106				184038	56.1116	56.11
145	alpha-Methylstyrene	118	9.752	9.752	(0.959)	32189	12.3874	12.38
130	Ethyl Acetate	43	4.343	4.339	(0.902)	30790	13.5041	13.50
131	Methyl Acrylate	55	4.373	4.365	(0.908)	37919	16.8177	16.81
189	n-Butyl acetate	43	7.705	7.702	(0.941)	44193	12.7002	12.70
134	Cyclohexanone	55	9.152	9.149	(0.900)	23339	238.157	238.15(a)
185	Isoprene	39	2.157	2.154	(0.448)	7962	20.9379	20.93
188	Isopropyl acetate	43	5.284	5.280	(0.951)	90641	15.1318	15.13
150	Allyl alcohol	57	3.342	3.338	(0.694)	26287	334.049	334.04
194	Acetaldehyde	44	1.464	1.460	(0.304)	18082	44.8417	44.84(M)
195	Methyl Amyl Ketone	43	8.867	8.864	(1.083)	63843	15.8113	15.81
200	Dimethyl Disulfide	94	6.742	6.742	(0.824)	14482	13.2174	13.21

202 Isobutylene	41	1.752	1.745 (0.364)	15421	20.3630	20.36(M)
133 Ethyl Acrylate	55	5.947	5.943 (1.235)	75241	17.8312	17.83

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
163 Butyl methacrylate	41	9.647	9.647	(0.949)	39216	18.8256	18.82
203 2-Ethylhexyl Acrylate	55	12.039	12.039	(1.184)	27828	13.9962	13.99

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: HS24051490-03MS;HS24051490-03MS;3;;MS
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Column phase: DB624

Instrument: VOA9.i
Operator: FT
Column diameter: 0.18

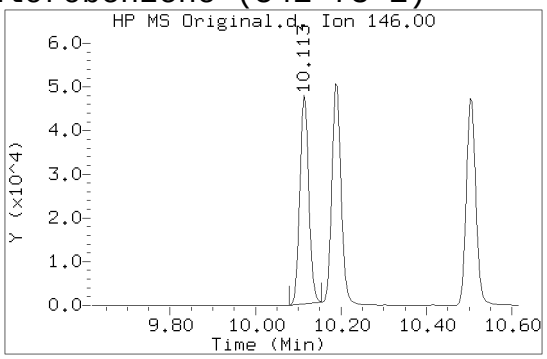
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LabSampID : HS24051490-03MS

1,3-Dichlorobenzene (541-73-1)

Reason Code:

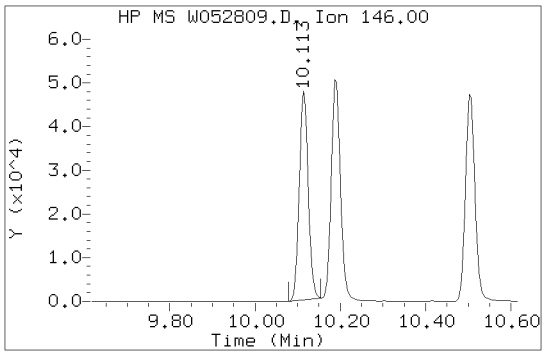
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11:24
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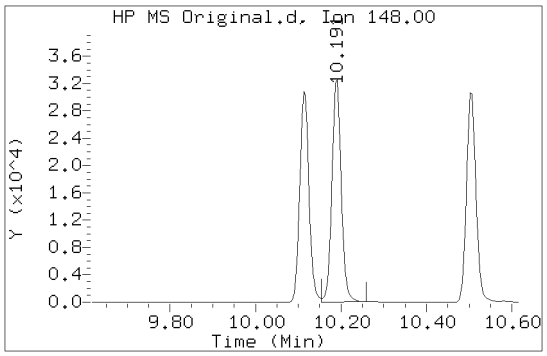
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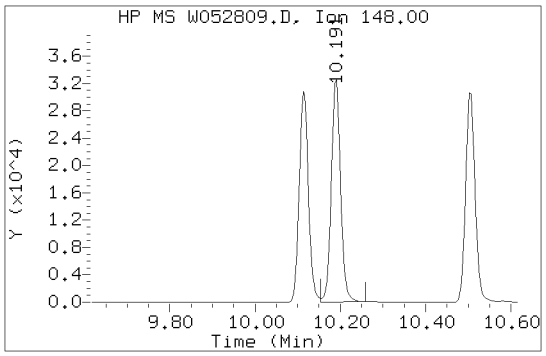
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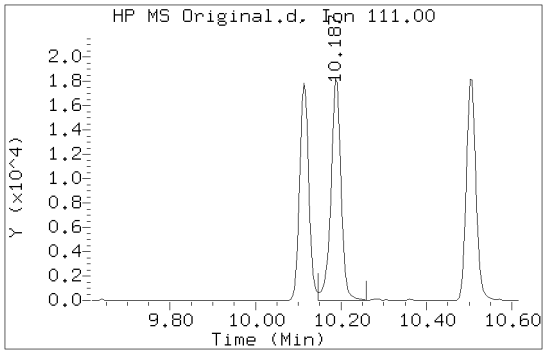
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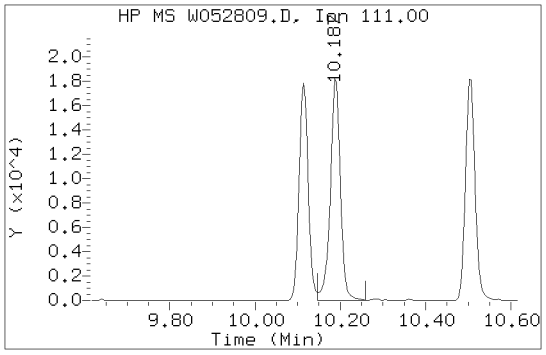
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AFTER

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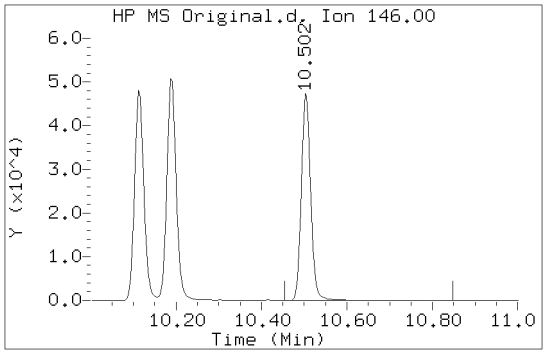


1,2-Dichlorobenzene (95-50-1)

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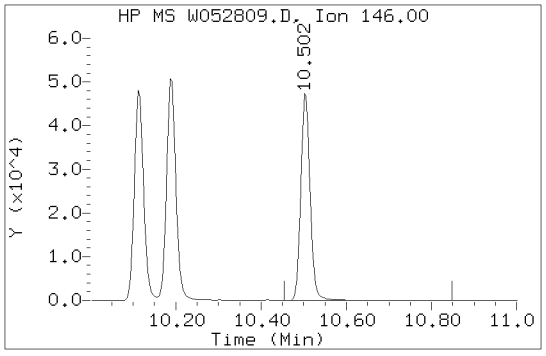
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AFTER

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22-Jun-2024
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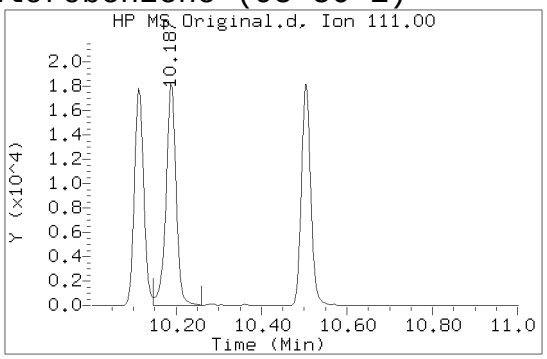
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LabSampID : HS24051490-03MS

1,2-Dichlorobenzene (95-50-1)

Reason Code:

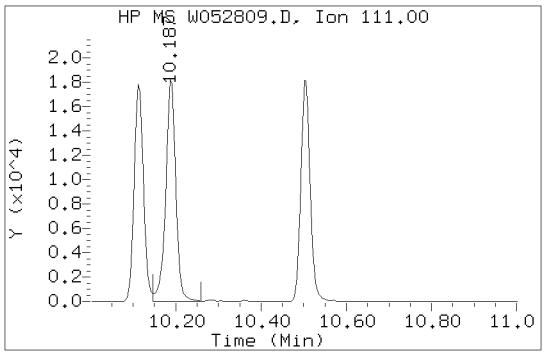
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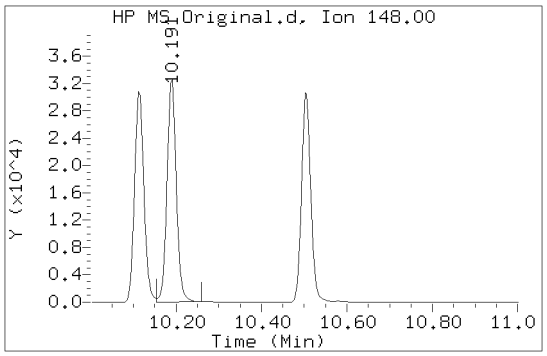
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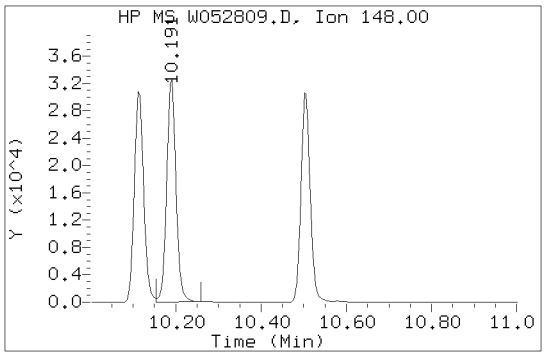
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RUCHA
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AFTER

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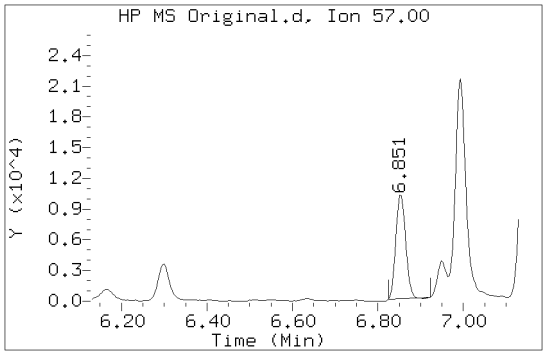


Epichlorohydrin (106-89-8)

Reason Code:

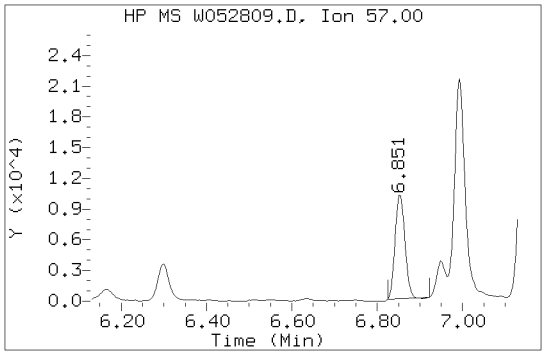
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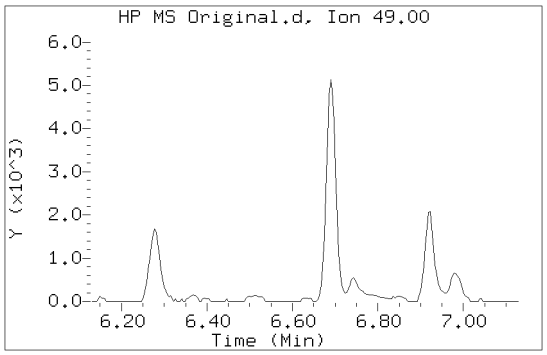
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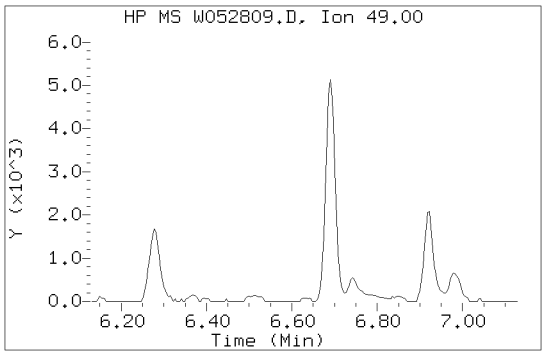
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AFTER

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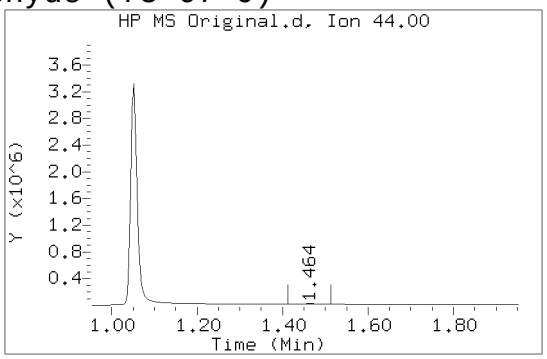
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Inj Date : 30-MAY-2024 05:59
InstruID : VOA9.i
LabSampID : HS24051490-03MS

Acetaldehyde (75-07-0)

Reason Code:

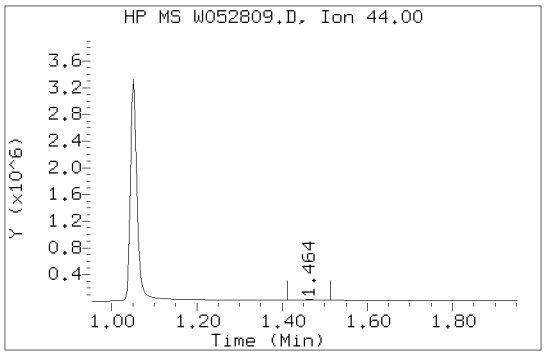
BEFORE

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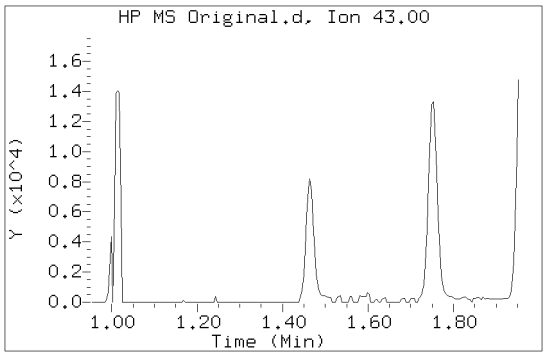
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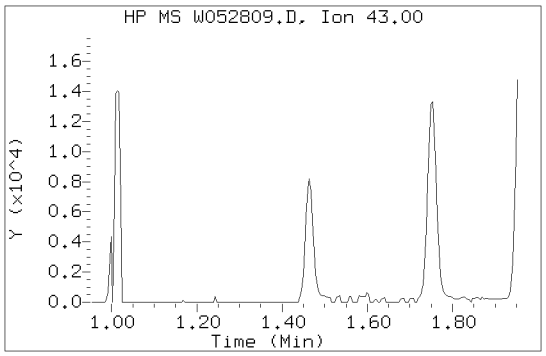
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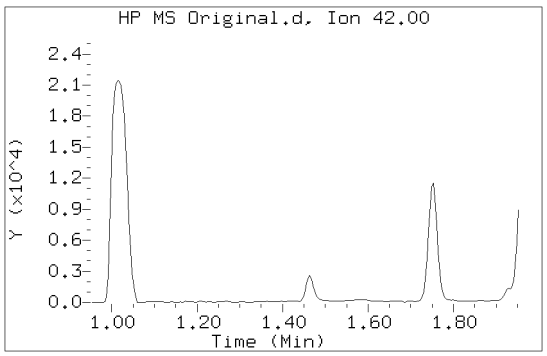
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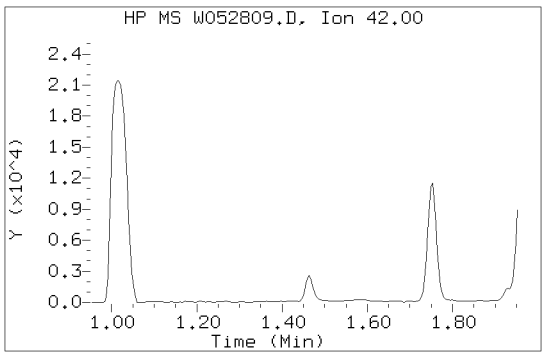
BEFORE

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AFTER

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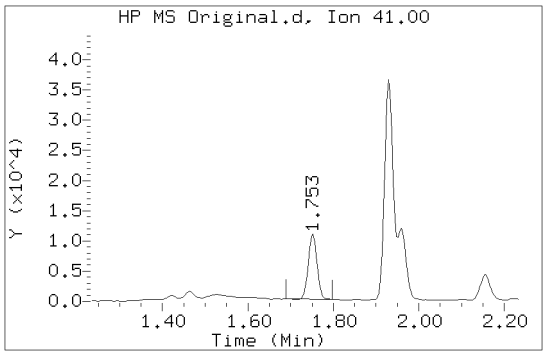


Isobutylene (115-11-7)

Reason Code:

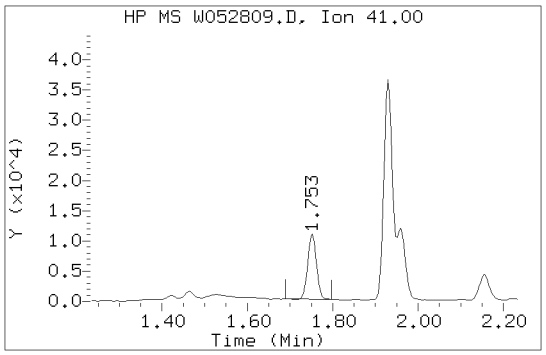
BEFORE

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22-Jun-2024
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AFTER

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11:24
RUCHA
PATEL



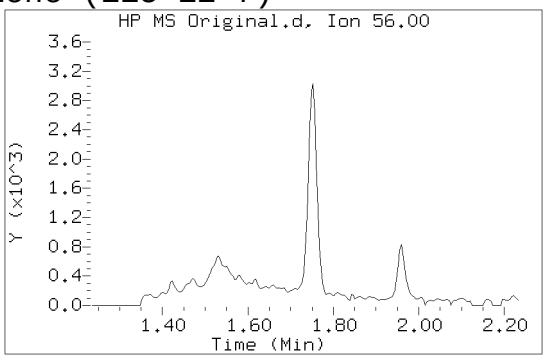
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Isobutylene (115-11-7)

Reason Code:

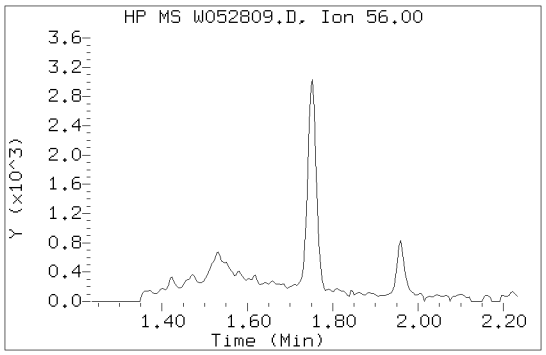
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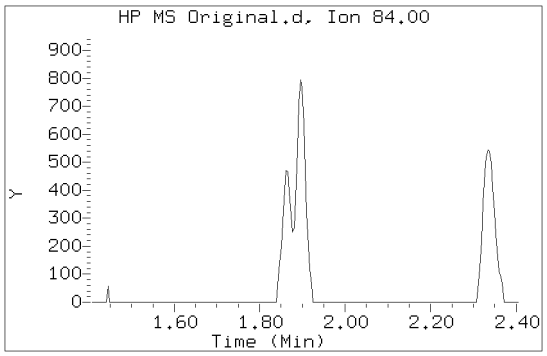
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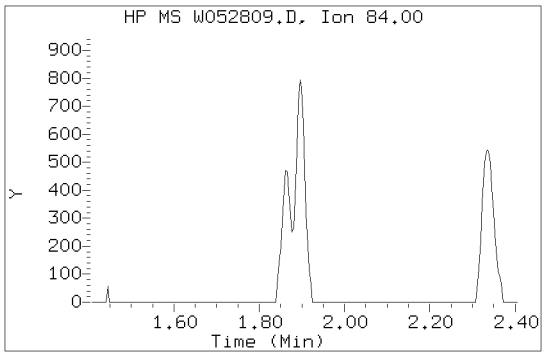
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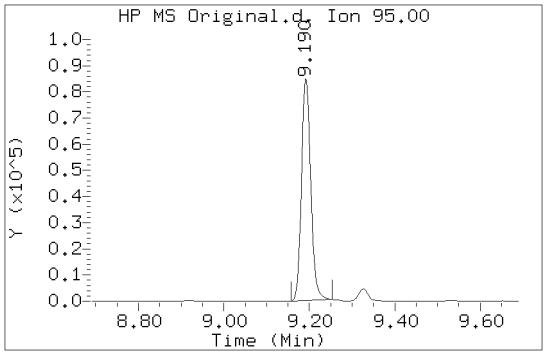


4-Bromofluorobenzene (460-00-4)

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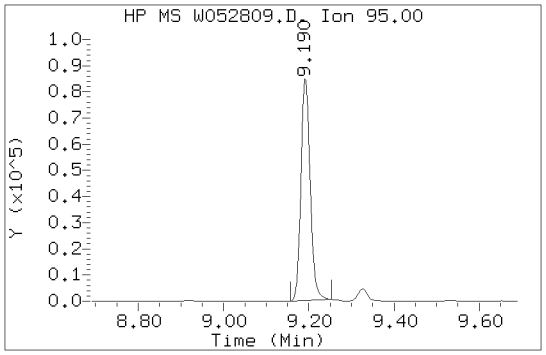
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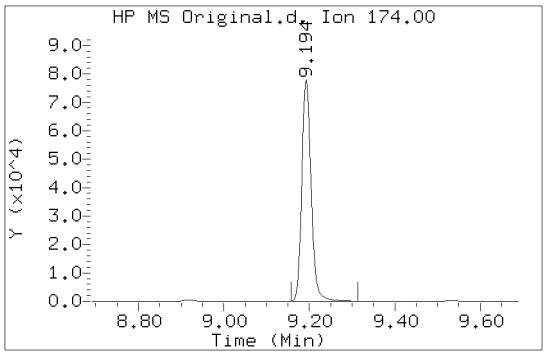
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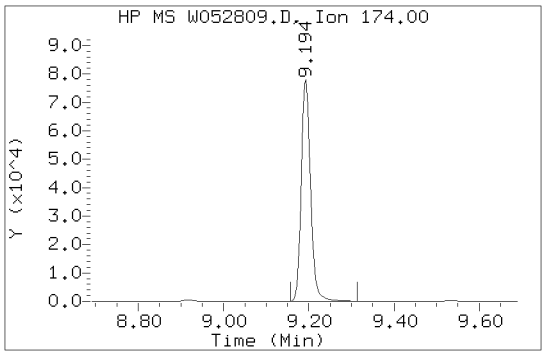
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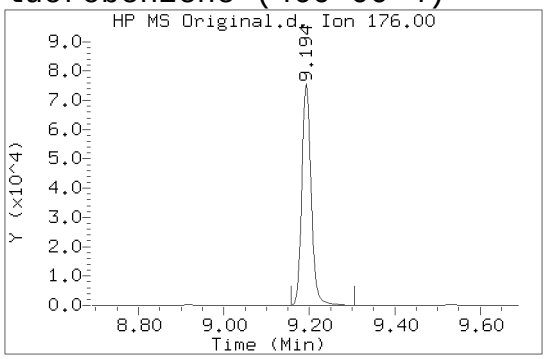
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InstruID : VOA9.i
LabSampID : HS24051490-03MS

4-Bromofluorobenzene (460-00-4)

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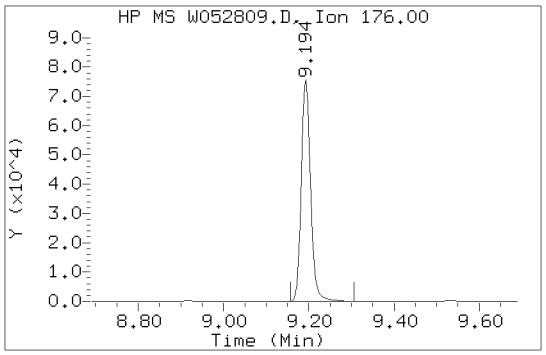
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Data File: \\NAHSTWS005\Target\chem\voa9.i\U240529.b\W052810.D Page 1
Report Date: 22-Jun-2024 11:25

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\W052810.D
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Operator : FT Inst ID: VOA9.i
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Cal Date : 29-MAY-2024 13:53 Cal File: U052911.D
Als bottle: 51 QC Sample: MSD
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	4.815	4.811	(1.000)	247217	50.0000	
2 Dichlorodifluoromethane	85	1.164	1.160	(0.242)	19402	21.0524	21.05
3 Chloromethane	50	1.295	1.295	(0.269)	78981	23.5784	23.57
4 Propionitrile	54	4.335	4.335	(0.900)	49059	181.220	181.22(a)
5 Vinyl Chloride	62	1.378	1.374	(0.286)	36748	19.6844	19.68
6 Bromomethane	94	1.606	1.606	(0.334)	15200	17.3577	17.35
7 Chloroethane	64	1.693	1.692	(0.352)	26642	20.5560	20.55
8 Trichlorofluoromethane	101	1.891	1.891	(0.393)	47194	21.2880	21.28
9 Acrolein	56	2.262	2.262	(0.470)	2341	25.3883	25.38
10 Acetone	43	2.409	2.408	(0.500)	25190	32.5060	32.50
11 1,1-Dichloroethene	96	2.330	2.330	(0.484)	30244	18.5580	18.55
12 Isobutyl Alcohol	43	5.280	5.280	(1.097)	87151	332.126	332.12(a)
13 Acetonitrile	39	2.671	2.667	(0.555)	35219	175.624	175.62(a)
14 Allyl Chloride	41	2.671	2.671	(0.555)	86443	17.9930	17.99(a)
15 Iodomethane	142	2.465	2.465	(0.512)	11151	64.6180	64.61
16 Acrylonitrile	53	3.065	3.064	(0.636)	24553	35.6550	35.65
17 Methylene Chloride	84	2.791	2.791	(0.580)	36445	18.4678	18.46
18 Methyl tert-butyl ether	73	3.080	3.079	(0.640)	81947	17.8807	17.88
19 Carbon Disulfide	76	2.517	2.517	(0.523)	161994	35.4343	35.43
20 trans-1,2-Dichloroethene	96	3.057	3.053	(0.635)	31812	17.2628	17.26

21 Vinyl Acetate	43	4.339	4.339 (0.901)	30256	27.7717	27.77
22 1,1-Dichloroethane	63	3.511	3.511 (0.729)	62783	17.7348	17.73

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
23	Chloroprene	53	3.608	3.604	(0.749)	50352	19.3972	19.39
24	2-Butanone	43	4.264	4.264	(0.886)	34150	30.9110	30.91
25	Methacrylonitrile	41	4.493	4.493	(0.933)	20045	18.0458	18.04(a)
26	2,2-Dichloropropane	77	4.178	4.178	(0.868)	29295	12.6078	12.60
27	cis-1,2-Dichloroethene	96	4.193	4.193	(0.871)	38188	16.7791	16.77
28	Chloroform	83	4.572	4.568	(0.949)	63431	17.9453	17.94
29	Bromochloromethane	128	4.467	4.467	(0.928)	18393	17.7361	17.73
$ 30	Dibromofluoromethane	113	4.748	4.744	(0.986)	91229	57.8954	57.89
31	1,1,1-Trichloroethane	97	4.740	4.740	(0.984)	49214	19.8817	19.88
32	1,1-Dichloropropene	75	4.920	4.920	(0.887)	48164	18.4593	18.45
33	1,2-Dichloroethane	62	5.171	5.171	(0.932)	50735	19.2988	19.29
34	Carbon Tetrachloride	117	4.909	4.909	(0.885)	39056	19.1085	19.10
$ 35	1,2-Dichloroethane-d4	65	5.093	5.096	(1.058)	108748	57.1750	57.17
* 36	1,4-Difluorobenzene	114	5.550	5.550	(1.000)	360242	50.0000	
37	Benzene	78	5.138	5.134	(0.926)	147340	17.3645	17.36
38	Trichloroethene	130	5.786	5.786	(1.043)	37483	17.9481	17.94
39	Bromodichloromethane	83	6.277	6.277	(1.131)	39427	17.2766	17.27
40	Methyl Methacrylate	41	5.824	5.820	(1.209)	14310	17.1802	17.18(a)
42	1,2-Dichloropropane	63	6.007	6.007	(1.082)	39194	17.5138	17.51
43	2-Nitropropane	43	6.506	6.506	(1.351)	6376	16.6784	16.67
44	Dibromomethane	93	6.116	6.116	(1.102)	22354	17.2012	17.20
45	4-Methyl-2-Pentanone	43	6.851	6.851	(0.837)	71598	33.4208	33.42
46	cis-1,3-Dichloropropene	75	6.690	6.689	(1.205)	43916	15.4685	15.46
* 47	Chlorobenzene-d5	117	8.182	8.181	(1.000)	325962	50.0000	
$ 48	Toluene-d8	98	6.918	6.918	(0.846)	356472	57.3205	57.32
49	Ethyl Methacrylate	69	7.289	7.289	(1.313)	41228	14.7955	14.79(a)
50	Toluene	91	6.978	6.978	(0.853)	150482	17.0071	17.00
51	trans-1,3-Dichloropropene	75	7.196	7.196	(1.296)	34518	15.1192	15.11
52	2-Hexanone	43	7.589	7.589	(0.928)	44820	33.1655	33.16
53	1,1,2-Trichloroethane	83	7.353	7.353	(0.899)	28627	18.3305	18.33
54	1,3-Dichloropropane	76	7.496	7.495	(0.916)	61287	17.0047	17.00
55	Dibromochloromethane	129	7.690	7.690	(0.940)	29376	16.3019	16.30
56	Tetrachloroethene	164	7.454	7.454	(0.911)	29600	19.1544	19.15
57	1,2-Dibromoethane	107	7.780	7.780	(0.951)	32188	16.5418	16.54
58	1-Chlorohexane	55	8.193	8.193	(1.476)	27949	18.5438	18.54
59	Chlorobenzene	112	8.208	8.208	(1.003)	95514	17.0016	17.00
60	1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	31226	17.4180	17.41
61	Ethylbenzene	106	8.305	8.305	(1.015)	47674	18.6267	18.62
62	m,p-Xylenes	106	8.406	8.406	(1.027)	123112	36.5910	36.59
63	o-Xylene	106	8.744	8.744	(1.069)	60442	18.4535	18.45
64	Styrene	104	8.759	8.759	(1.071)	95385	17.6793	17.67
66	Bromoform	173	8.916	8.916	(1.090)	16718	14.9522	14.95
67	Isopropylbenzene	105	9.059	9.059	(1.107)	146300	18.8041	18.80
68	1,1,2,2-Tetrachloroethane	83	9.325	9.325	(0.917)	48150	16.5561	16.55
$ 69	4-Bromofluorobenzene	95	9.190	9.190	(1.123)	127876	56.4228	56.42(M)
* 70	1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	174964	50.0000	
71	1,2,3-Trichloropropane	75	9.359	9.359	(0.920)	43086	15.7987	15.79
72	trans-1,4-Dichloro-2-butene	53	9.374	9.374	(1.146)	6876	12.3464	12.34(a)
73	n-Propylbenzene	91	9.411	9.411	(0.926)	171271	18.1645	18.16
74	Bromobenzene	156	9.314	9.314	(0.916)	40730	16.9293	16.92
75	1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	116493	18.2692	18.26
76	2-Chlorotoluene	91	9.479	9.479	(0.932)	105624	19.2133	19.21

77	4-Chlorotoluene	91	9.572	9.572 (0.941)	120211	17.7566	17.75
78	tert-Butylbenzene	119	9.835	9.835 (0.967)	105193	19.8711	19.87

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Report Date: 22-Jun-2024 11:25

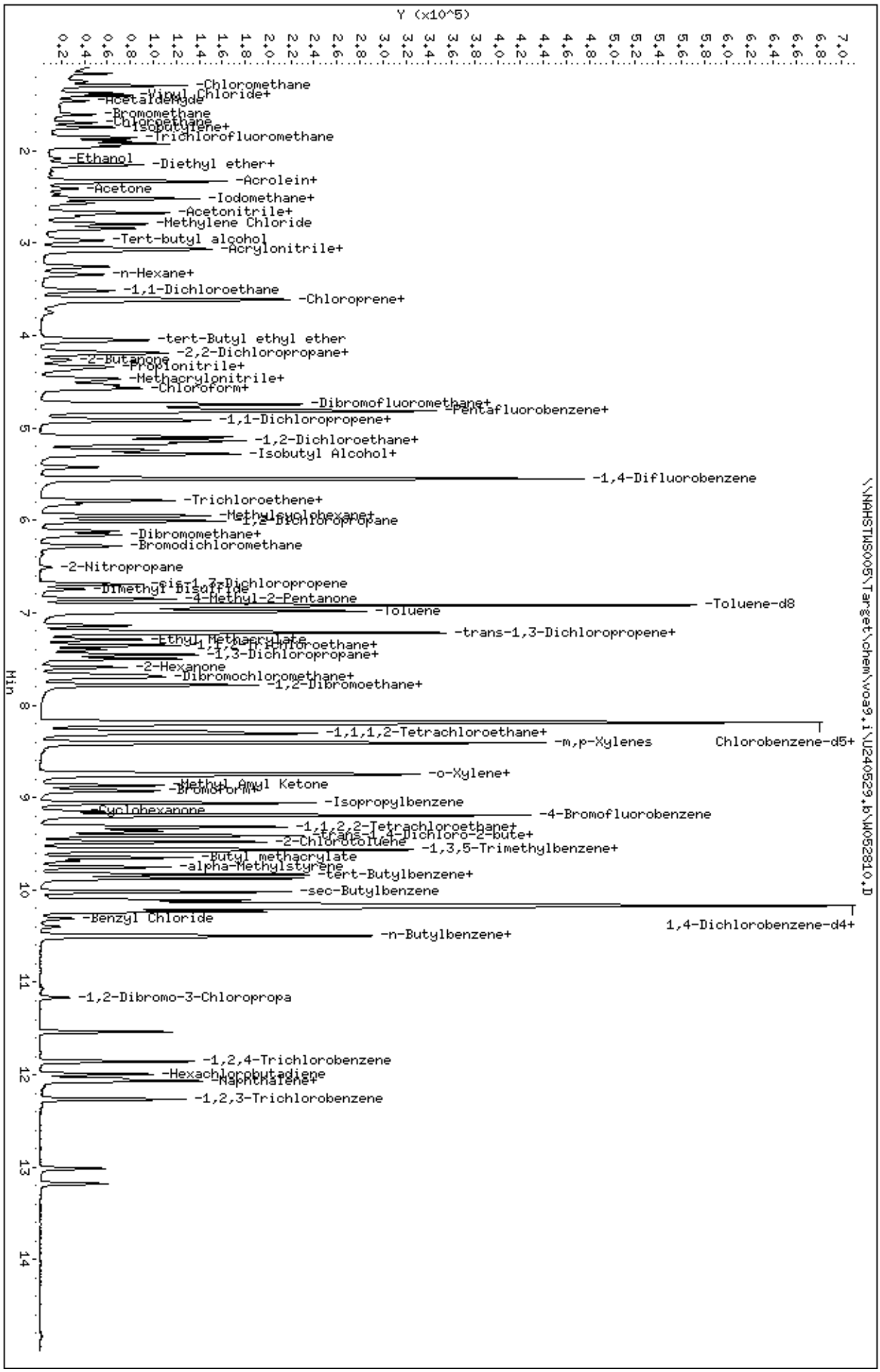
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
79	1,2,4-Trimethylbenzene	105	9.876	9.876	(0.971)	115165	16.5305	16.53
81	sec-Butylbenzene	105	10.018	10.018	(0.985)	136184	18.9549	18.95
82	p-Isopropyltoluene	119	10.142	10.142	(0.997)	116090	18.5421	18.54
83	1,3-Dichlorobenzene	146	10.112	10.112	(0.994)	69445	17.0928	17.09(M)
84	1,4-Dichlorobenzene	146	10.187	10.187	(1.002)	76658	17.0375	17.03
86	Benzyl Chloride	91	10.307	10.307	(1.260)	18250	8.16061	8.16
87	n-Butylbenzene	91	10.491	10.491	(1.032)	96512	17.6146	17.61
88	1,2-Dichlorobenzene	146	10.502	10.502	(1.033)	72248	17.1634	17.16(M)
89	1,2-Dibromo-3-Chloropropane	155	11.166	11.165	(1.098)	4843	14.1754	14.17
90	1,2,4-Trichlorobenzene	180	11.855	11.855	(1.166)	41765	15.7464	15.74
91	Hexachlorobutadiene	225	11.994	11.994	(1.180)	17211	16.1727	16.17
92	Naphthalene	128	12.065	12.065	(1.187)	96945	15.2246	15.22
93	1,2,3-Trichlorobenzene	180	12.268	12.268	(1.206)	38807	15.7057	15.70
146	Methyl acetate	43	2.712	2.712	(0.563)	28746	14.8753	14.87
138	Freon TF	101	2.334	2.330	(0.485)	26989	20.2709	20.27
141	Cyclohexane	56	4.782	4.781	(0.993)	49588	20.8039	20.80
142	Tetrahydrofuran	42	4.542	4.541	(0.943)	12599	35.1062	35.10
147	Methylcyclohexane	55	5.944	5.943	(1.071)	71412	16.7954	16.79
135	1,4-Dioxane	88	6.165	6.165	(1.280)	8283	322.977	322.97
132	n-Butanol	56	5.824	5.820	(1.209)	18377	275.942	275.94(a)
136	n-Hexane	57	3.338	3.338	(0.693)	26034	16.5705	16.57
139	Diethyl ether	59	2.142	2.142	(0.445)	23703	18.2517	18.25
148	Tert-butyl alcohol	59	2.967	2.971	(0.616)	60009	350.363	350.36
149	Isopropyl alcohol	45	2.566	2.566	(0.533)	48243	362.564	362.56
152	Amyl alcohol	42	7.398	7.394	(0.904)	20411	304.935	304.93
156	Diisopropyl ether	45	3.619	3.619	(0.752)	106189	16.8230	16.82
162	Butyl acrylate	55	8.733	8.729	(1.067)	52723	16.1246	16.12
187	n-Amyl acetate	43	8.928	8.927	(1.091)	45320	12.8047	12.80
164	Dicyclopentadiene	66	10.198	10.198	(1.003)	144990	16.1570	16.15
166	1,2,3-Trimethylbenzene	105	10.232	10.232	(1.006)	101776	17.1785	17.17
167	Ethanol	45	2.086	2.086	(0.433)	8652	344.246	344.24
172	tert-Butyl formate	59	5.239	5.239	(1.088)	56845	29.1094	29.10
173	3,3-Dimethyl-1-butanol	57	7.780	7.780	(0.951)	65859	290.283	290.28
174	tert-Amyl methyl ether	73	5.284	5.284	(1.097)	88468	15.2938	15.29
175	tert-Butyl ethyl ether	59	4.047	4.047	(0.840)	90419	15.9916	15.99
176	tert-Amyl alcohol	59	5.239	5.239	(1.088)	56845	287.746	287.74
151	4-Methyl-2-pentanol	45	7.214	7.214	(1.300)	181301	324.495	324.49
140	1,3-Butadiene	54	1.400	1.400	(0.291)	17634	19.2787	19.27
M 94	1,2-Dichloroethylene (total)	96				70000	33.9910	33.99
M 95	Xylenes (total)	106				183554	56.0836	56.08
145	alpha-Methylstyrene	118	9.752	9.752	(0.959)	31690	12.5398	12.53
130	Ethyl Acetate	43	4.339	4.339	(0.901)	30256	13.2878	13.28
131	Methyl Acrylate	55	4.369	4.365	(0.907)	38119	16.9294	16.92
189	n-Butyl acetate	43	7.702	7.702	(0.941)	41429	12.1067	12.10
134	Cyclohexanone	55	9.152	9.149	(0.900)	23473	246.063	246.06(a)
185	Isoprene	39	2.154	2.154	(0.447)	7658	20.1986	20.19
188	Isopropyl acetate	43	5.280	5.280	(0.951)	85762	14.3480	14.34
150	Allyl alcohol	57	3.338	3.338	(0.693)	26034	331.410	331.40
194	Acetaldehyde	44	1.456	1.460	(0.303)	16392	40.6682	40.66(M)
195	Methyl Amyl Ketone	43	8.868	8.864	(1.084)	60443	15.2217	15.22
200	Dimethyl Disulfide	94	6.742	6.742	(0.824)	14608	13.4266	13.42
202	Isobutylene	41	1.745	1.745	(0.362)	15238	20.1444	20.14(M)

133 Ethyl Acrylate	55	5.944	5.943 (1.234)	71412	16.9806	16.98
163 Butyl methacrylate	41	9.647	9.647 (0.949)	40518	20.0137	20.01

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
203 2-Ethylhexyl Acrylate	55	12.039	12.039	(1.184)	27989	14.4305	14.43

QC Flag Legend

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



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Instrument: VOA9.i
Operator: FT
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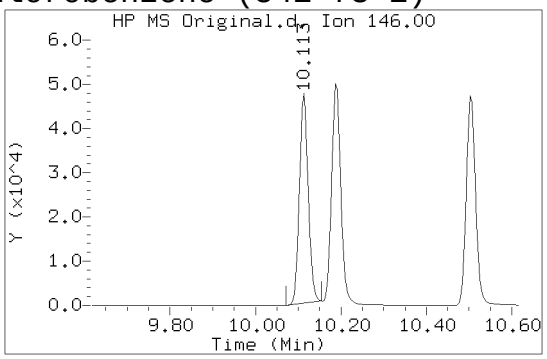
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Inj Date : 30-MAY-2024 06:21
InstruID : VOA9.i
LabSampID : HS24051490-03MSD

1,3-Dichlorobenzene (541-73-1)

Reason Code:

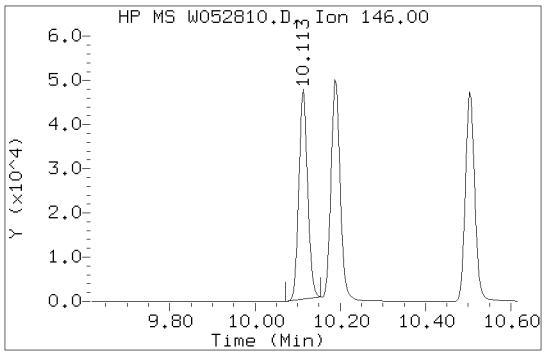
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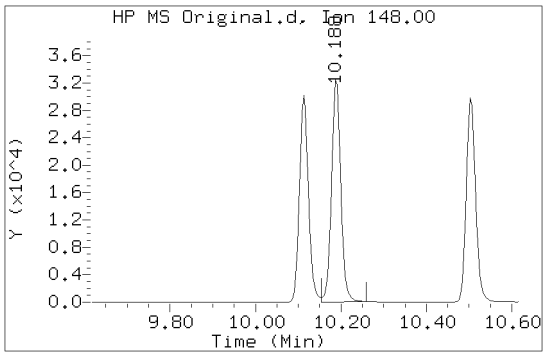
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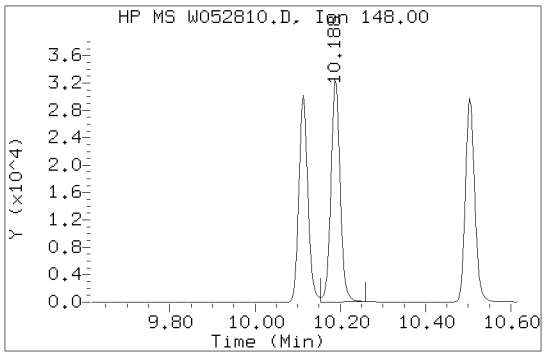
BEFORE

MASS
148
AREA
48751
HEIGHT
32398
22-Jun-2024
11:24
RUCHA
PATEL



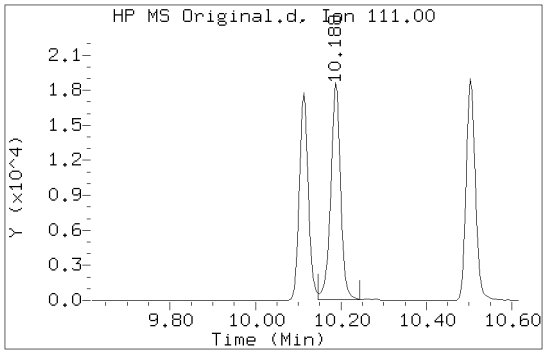
AFTER

MASS
148
AREA
48751
HEIGHT
32398
22-Jun-2024
11:24
RUCHA
PATEL



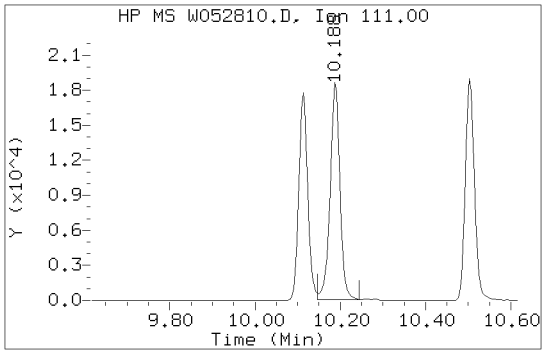
BEFORE

MASS
111
AREA
29641
HEIGHT
18599
22-Jun-2024
11:24
RUCHA
PATEL



AFTER

MASS
111
AREA
29641
HEIGHT
18599
22-Jun-2024
11:24
RUCHA
PATEL

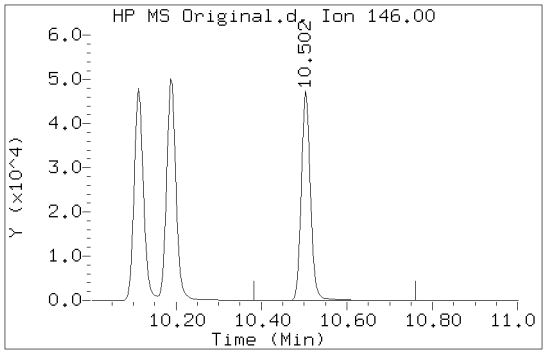


1,2-Dichlorobenzene (95-50-1)

Reason Code:

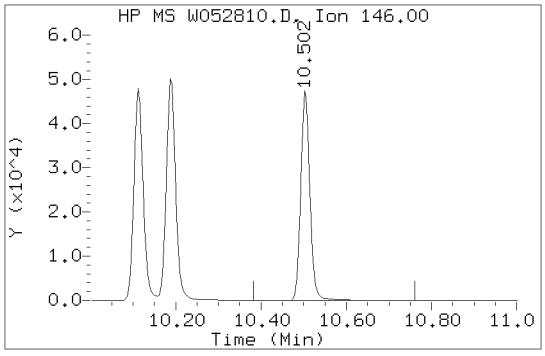
BEFORE

MASS
146
AREA
72248
HEIGHT
47432
22-Jun-2024
11:24
RUCHA
PATEL



AFTER

MASS
146
AREA
72248
HEIGHT
47432
22-Jun-2024
11:24
RUCHA
PATEL



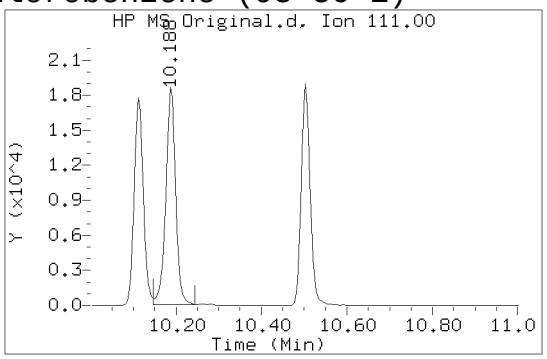
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\W052810.D
Inj Date : 30-MAY-2024 06:21
InstruID : VOA9.i
LabSampID : HS24051490-03MSD

1,2-Dichlorobenzene (95-50-1)

Reason Code:

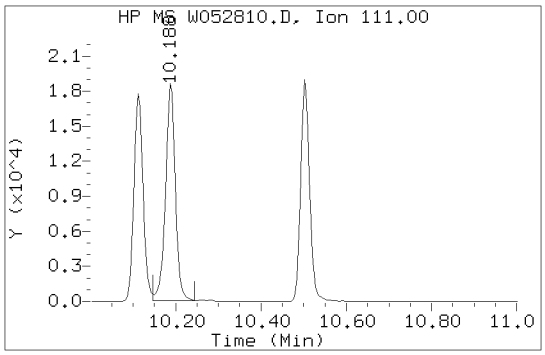
BEFORE

MASS
111
AREA
29641
HEIGHT
18599
22-Jun-2024
11:24
RUCHA
PATEL



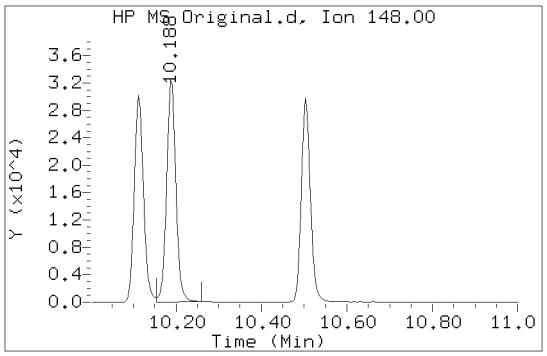
AFTER

MASS
111
AREA
29641
HEIGHT
18599
22-Jun-2024
11:24
RUCHA
PATEL



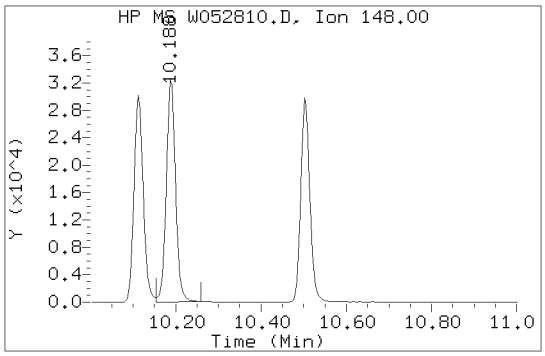
BEFORE

MASS
148
AREA
48751
HEIGHT
32398
22-Jun-2024
11:24
RUCHA
PATEL



AFTER

MASS
148
AREA
48751
HEIGHT
32398
22-Jun-2024
11:24
RUCHA
PATEL

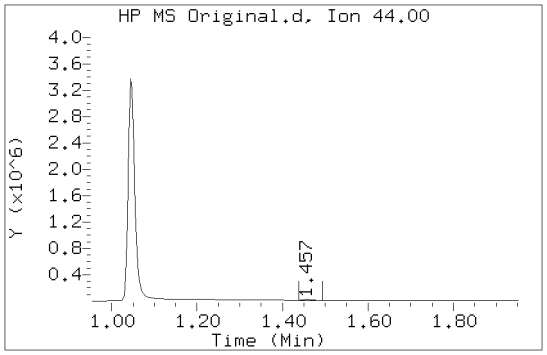


Acetaldehyde (75-07-0)

Reason Code:

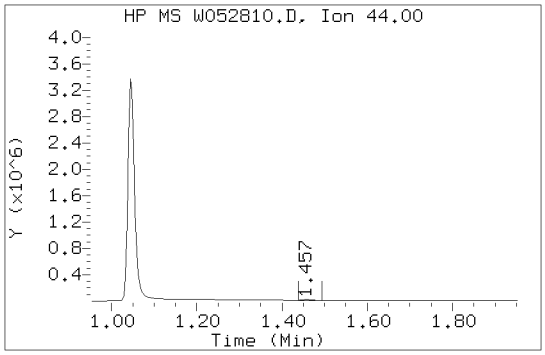
BEFORE

MASS
44
AREA
16392
HEIGHT
12973
22-Jun-2024
11:24
RUCHA
PATEL



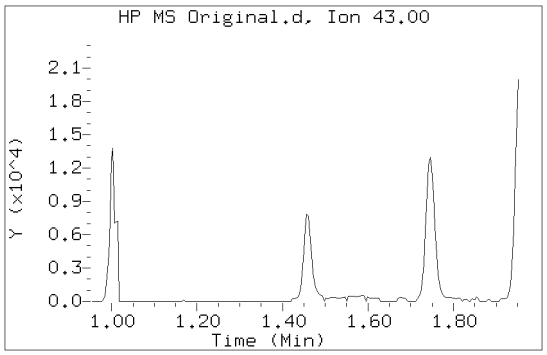
AFTER

MASS
44
AREA
16392
HEIGHT
12973
22-Jun-2024
11:24
RUCHA
PATEL



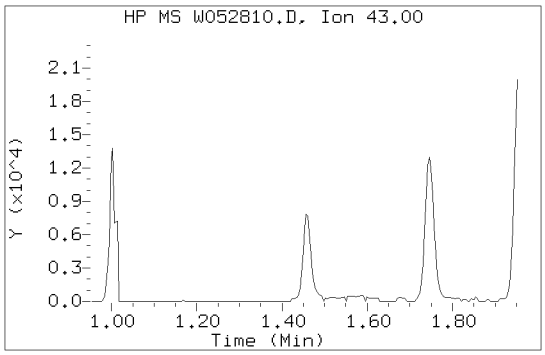
BEFORE

MASS
43
AREA
0
HEIGHT
0
22-Jun-2024
11:24
RUCHA
PATEL



AFTER

MASS
43
AREA
0
HEIGHT
0
22-Jun-2024
11:24
RUCHA
PATEL



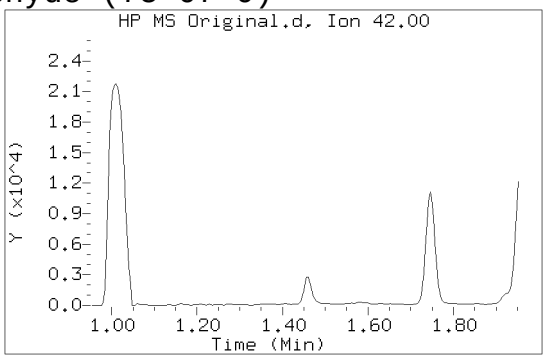
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\W052810.D
Inj Date : 30-MAY-2024 06:21
InstruID : VOA9.i
LabSampID : HS24051490-03MSD

Acetaldehyde (75-07-0)

Reason Code:

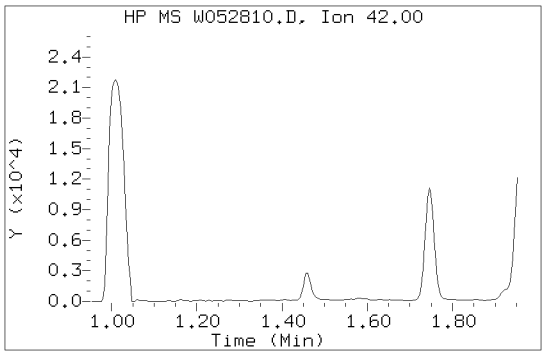
BEFORE

MASS
42
AREA
0
HEIGHT
0
22-Jun-2024
11:24
RUCHA
PATEL



AFTER

MASS
42
AREA
0
HEIGHT
0
22-Jun-2024
11:24
RUCHA
PATEL

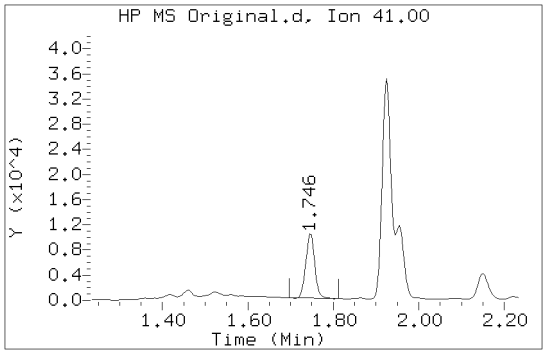


Isobutylene (115-11-7)

Reason Code:

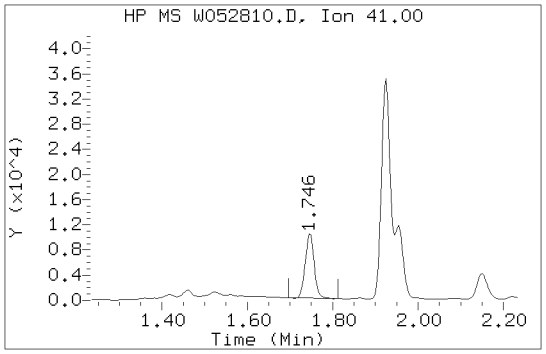
BEFORE

MASS
41
AREA
15238
HEIGHT
10291
22-Jun-2024
11:24
RUCHA
PATEL



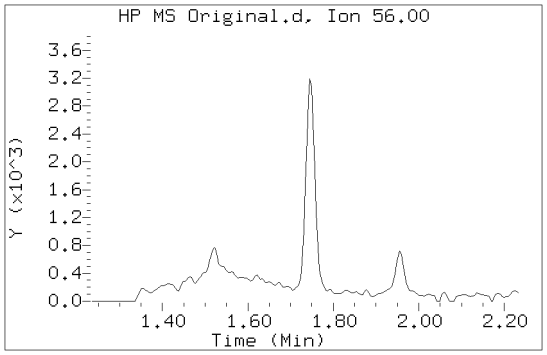
AFTER

MASS
41
AREA
15238
HEIGHT
10291
22-Jun-2024
11:24
RUCHA
PATEL



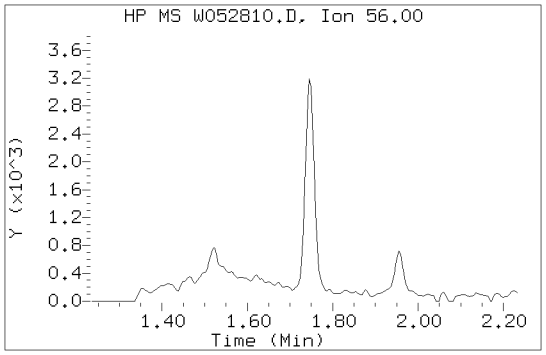
BEFORE

MASS
56
AREA
0
HEIGHT
0
22-Jun-2024
11:24
RUCHA
PATEL



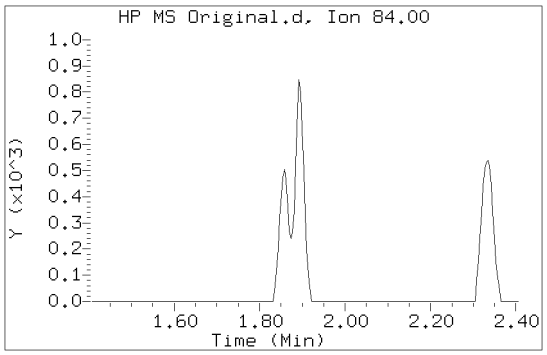
AFTER

MASS
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AREA
0
HEIGHT
0
22-Jun-2024
11:24
RUCHA
PATEL



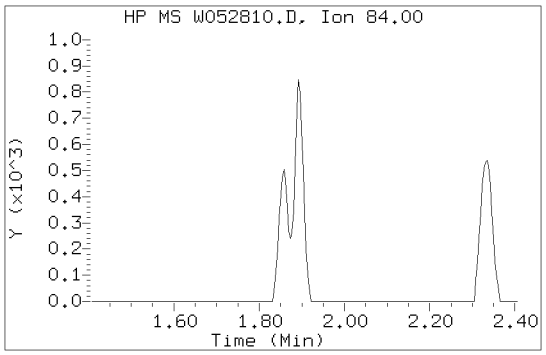
BEFORE

MASS
84
AREA
0
HEIGHT
0
22-Jun-2024
11:24
RUCHA
PATEL



AFTER

MASS
84
AREA
0
HEIGHT
0
22-Jun-2024
11:24
RUCHA
PATEL

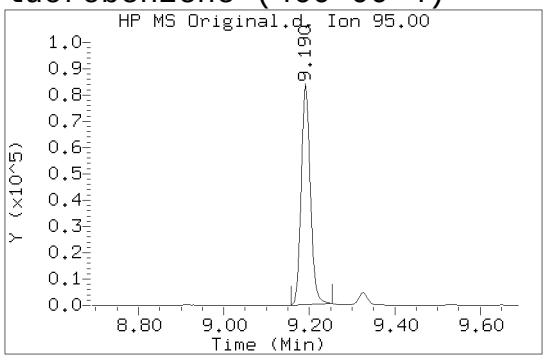


Data File : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\W052810.D
Inj Date : 30-MAY-2024 06:21
InstruID : VOA9.i
LabSampID : HS24051490-03MSD

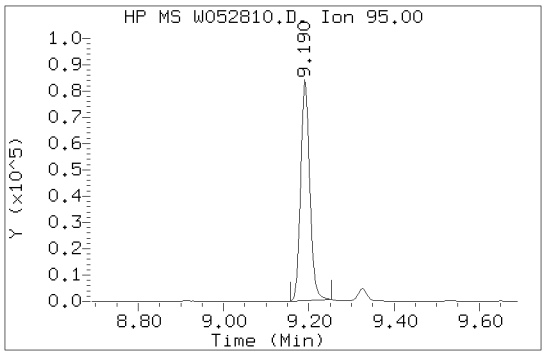
4-Bromofluorobenzene (460-00-4)

Reason Code:

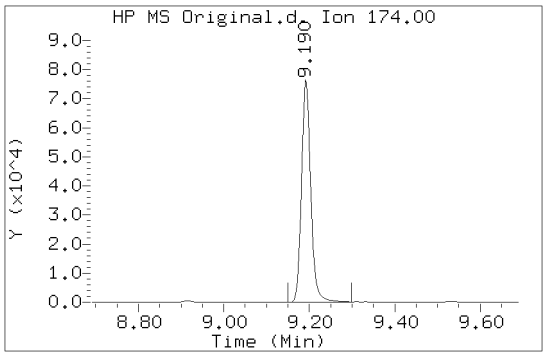
BEFORE
MASS
95
AREA
127876
HEIGHT
84011
22-Jun-2024
11:24
RUCHA
PATEL



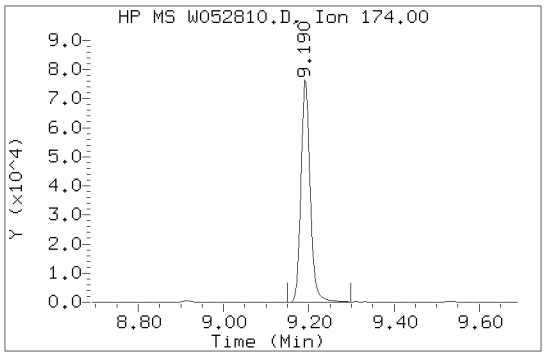
AFTER
MASS
95
AREA
127876
HEIGHT
84011
22-Jun-2024
11:24
RUCHA
PATEL



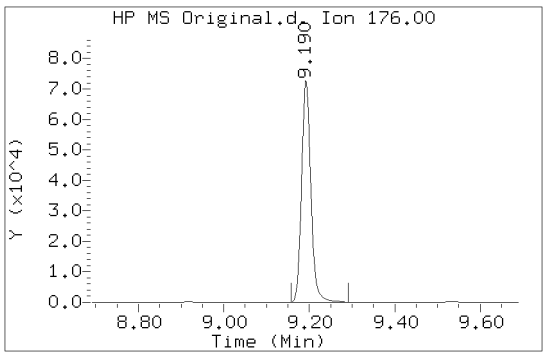
BEFORE
MASS
174
AREA
118232
HEIGHT
76440
22-Jun-2024
11:24
RUCHA
PATEL



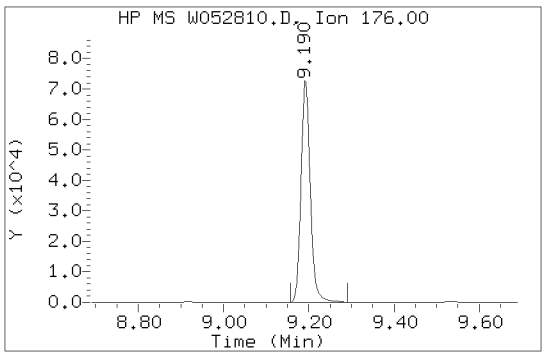
AFTER
MASS
174
AREA
118232
HEIGHT
76440
22-Jun-2024
11:24
RUCHA
PATEL



BEFORE
MASS
176
AREA
113508
HEIGHT
72704
22-Jun-2024
11:24
RUCHA
PATEL



AFTER
MASS
176
AREA
113508
HEIGHT
72704
22-Jun-2024
11:24
RUCHA
PATEL



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240529.b\W052813.D Page 1
Report Date: 22-Jun-2024 11:37

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\W052813.D
Lab Smp Id: HS24051300-04
Inj Date : 30-MAY-2024 07:31
Operator : FT   Inst ID: VOA9.i
Smp Info : HS24051300-04
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240529.b\8260C.m
Meth Date : 22-Jun-2024 11:36 r.patel   Quant Type: ISTD
Cal Date : 29-MAY-2024 13:53   Cal File: U052911.D
Als bottle: 54
Dil Factor: 1.00000
Integrator: HP RTE   Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

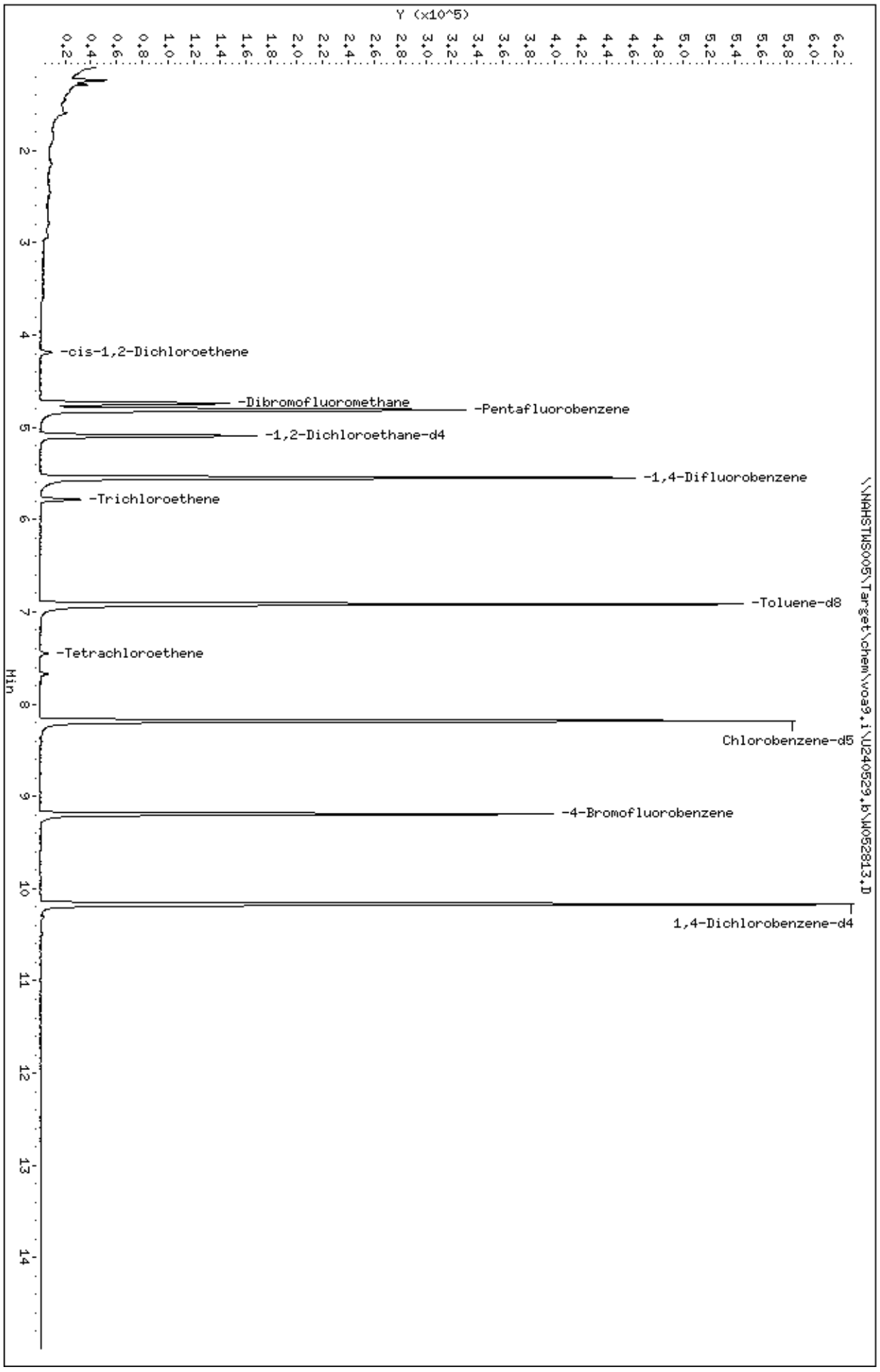
Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

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	4.808	4.815	(1.000)	243863	50.0000	
	27 cis-1,2-Dichloroethene	96	4.189	4.197	(0.871)	4045	1.80174	1.80
$	30 Dibromofluoromethane	113	4.740	4.748	(0.986)	87098	56.0757	56.07
$	35 1,2-Dichloroethane-d4	65	5.089	5.100	(1.058)	109124	58.1543	58.15(M)
*	36 1,4-Difluorobenzene	114	5.546	5.554	(1.000)	357970	50.0000	
	38 Trichloroethene	130	5.782	5.786	(1.043)	9982	4.81004	4.81(a)
*	47 Chlorobenzene-d5	117	8.182	8.185	(1.000)	323370	50.0000	
$	48 Toluene-d8	98	6.918	6.922	(0.846)	342954	55.5950	55.59
	56 Tetrachloroethene	164	7.454	7.454	(0.911)	1420	0.92626	0.92(a)
$	69 4-Bromofluorobenzene	95	9.190	9.190	(1.123)	121571	54.0667	54.06
*	70 1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	165984	50.0000	
M	94 1,2-Dichloroethylene (total)	96				4045	1.99121	1.99(a)

QC Flag Legend

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


Data File: \\NAHSTWS005\Target\chem\voa9.i\U240529.b\W052813.D
Date : 30-MAY-2024 07:31
Client ID:
Sample Info: HS24051300-04
Purge Volume: 5.0
Column phase: DB624
Instrument: VOA9.i
Operator: FT
Column diameter: 0.18
Y (x10^5)
Min
-cis-1,2-Dichloroethene
-Dibromofluoromethane
-Pentafluorobenzene
-1,2-Dichloroethane-d4
-1,4-Difluorobenzene
-Trichloroethene
-Toluene-d8
-Tetrachloroethene
Chlorobenzene-d5
-4-Bromofluorobenzene
1,4-Dichlorobenzene-d4
\\NAHSTWS005\Target\chem\voa9.i\U240529.b\W052813.D

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240529.b\W052813.D

Date : 30-MAY-2024 07:31

Client ID:

Instrument: VOA9.i

Sample Info: HS24051300-04

Purge Volume: 5.0

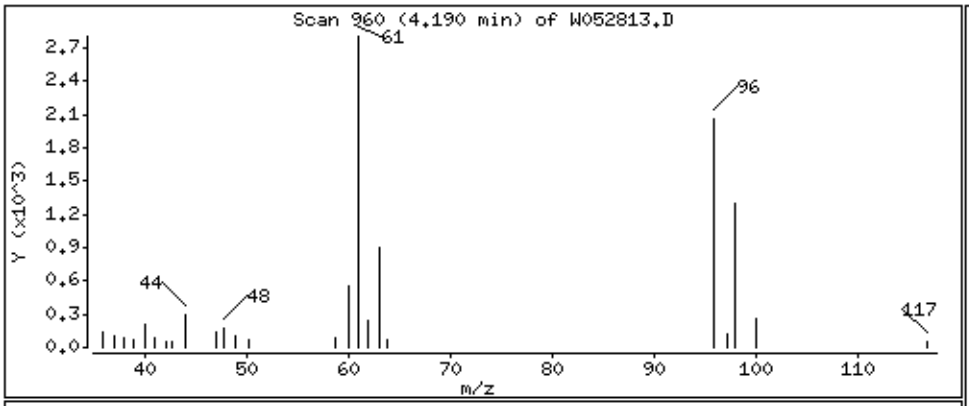
Operator: FT

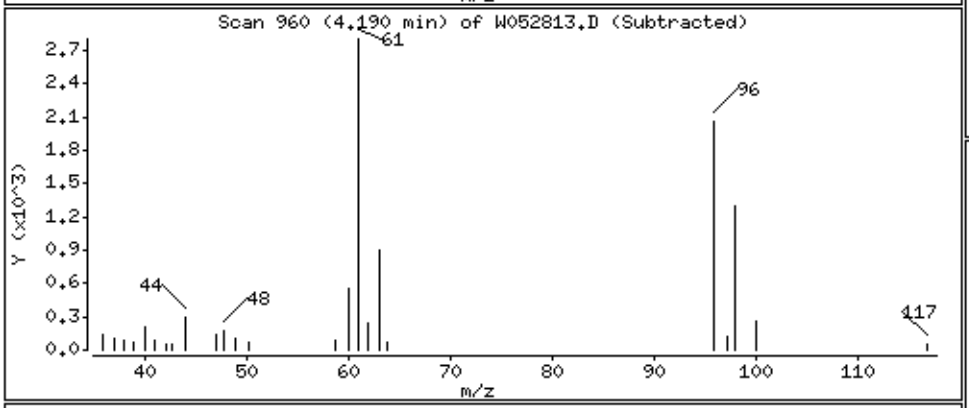
Column phase: DB624

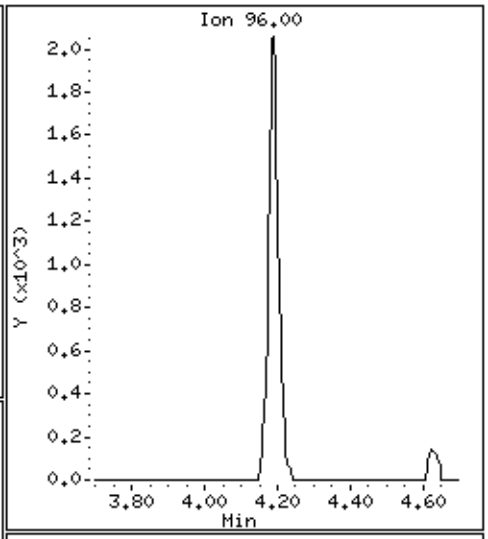
Column diameter: 0.18

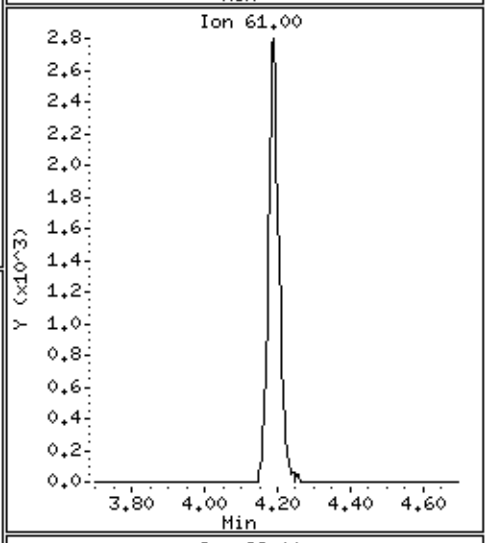
27 cis-1,2-Dichloroethene

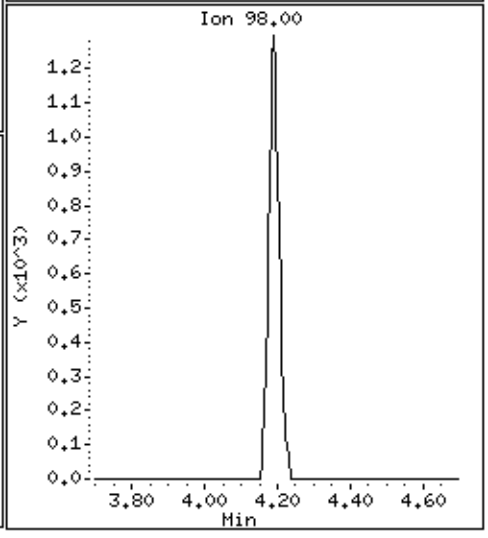
Concentration: 1.80 ug/l











Data File: \\NAHSTWS005\Target\chem\voa9.i\U240529.b\W052813.D

Date : 30-MAY-2024 07:31

Client ID:

Instrument: VOA9.i

Sample Info: HS24051300-04

Purge Volume: 5.0

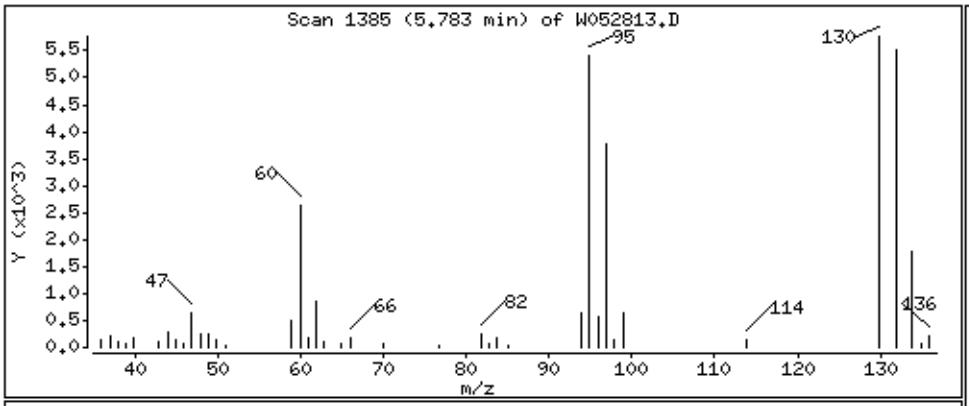
Operator: FT

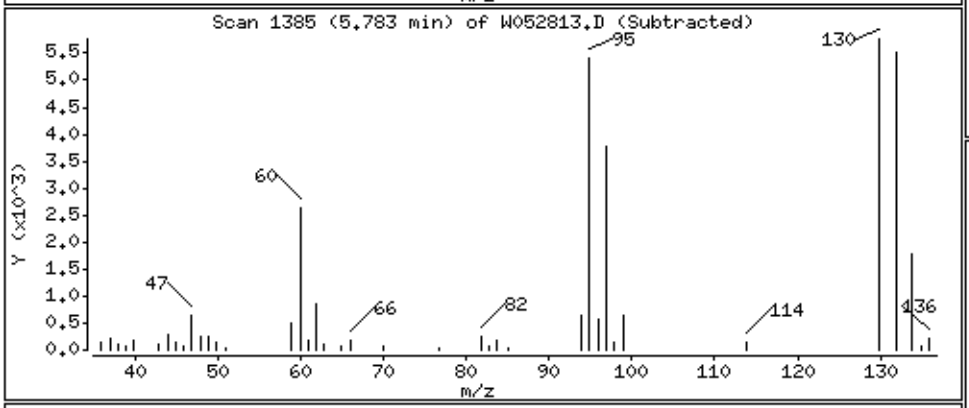
Column phase: DB624

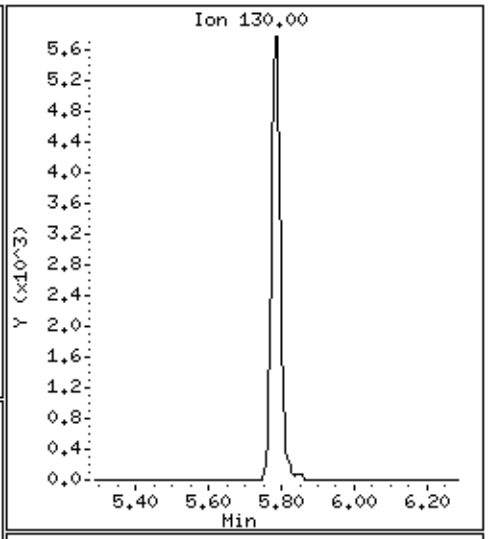
Column diameter: 0.18

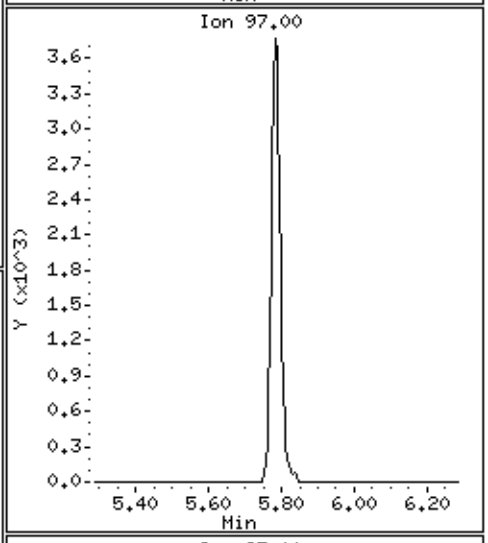
38 Trichloroethene

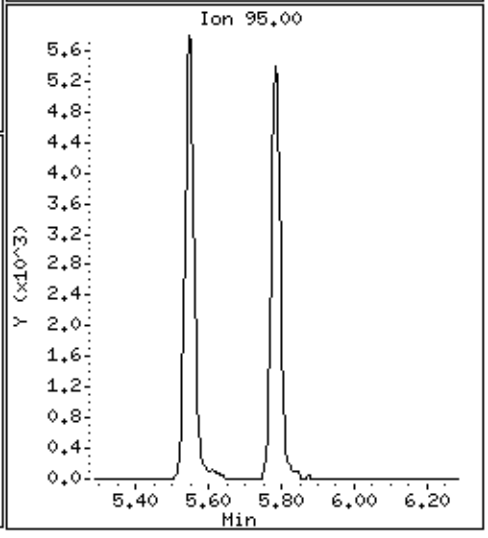
Concentration: 4.81 ug/l











Data File: \\NAHSTWS005\Target\chem\voa9.i\U240529.b\W052813.D

Date : 30-MAY-2024 07:31

Client ID:

Instrument: VOA9.i

Sample Info: HS24051300-04

Purge Volume: 5.0

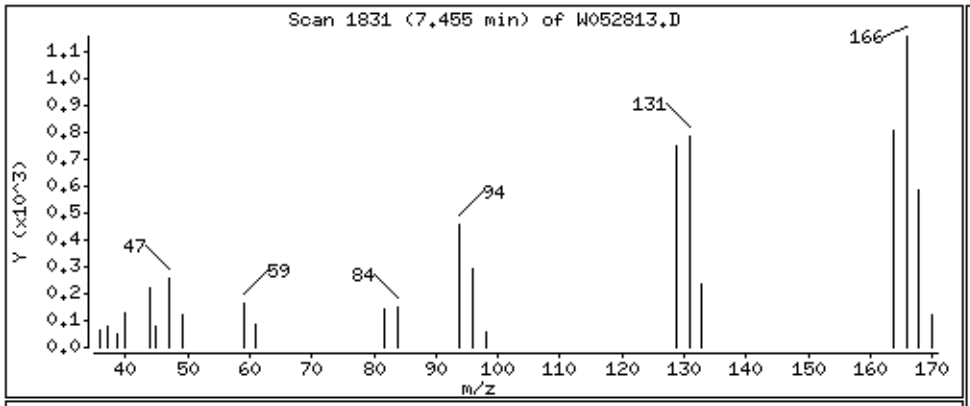
Operator: FT

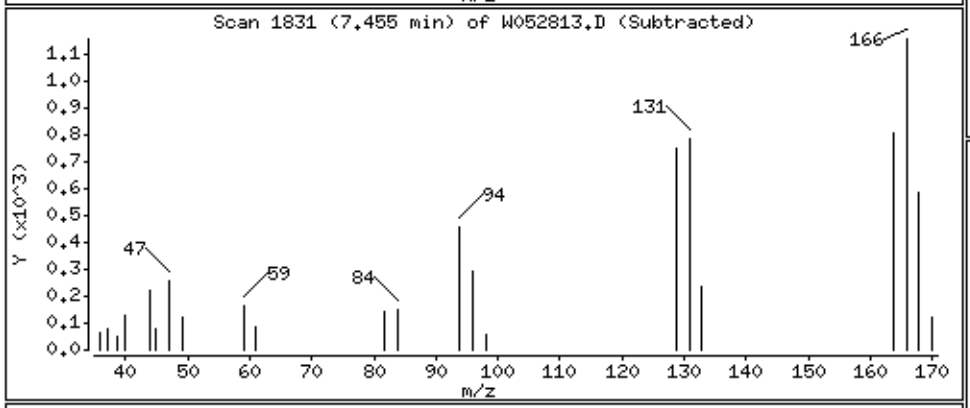
Column phase: DB624

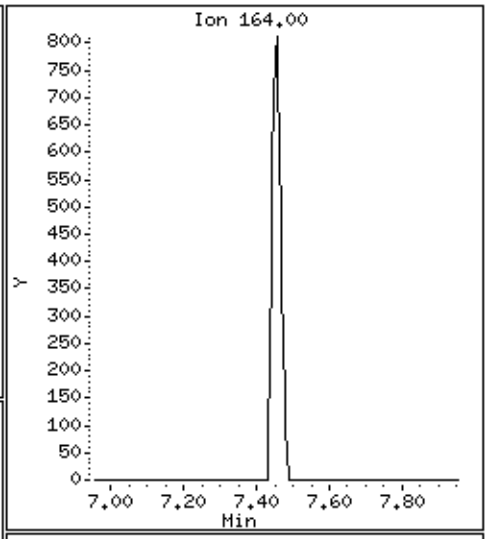
Column diameter: 0.18

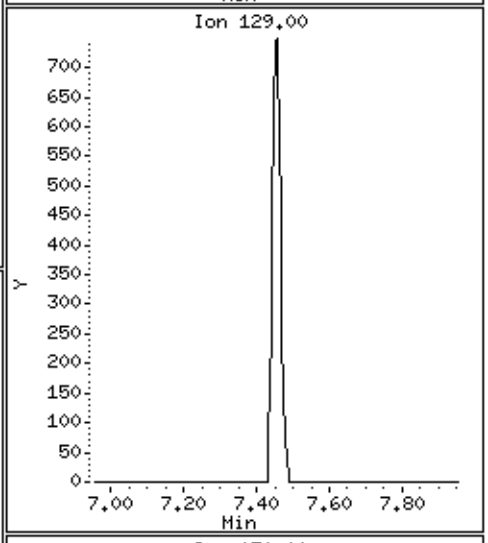
56 Tetrachloroethene

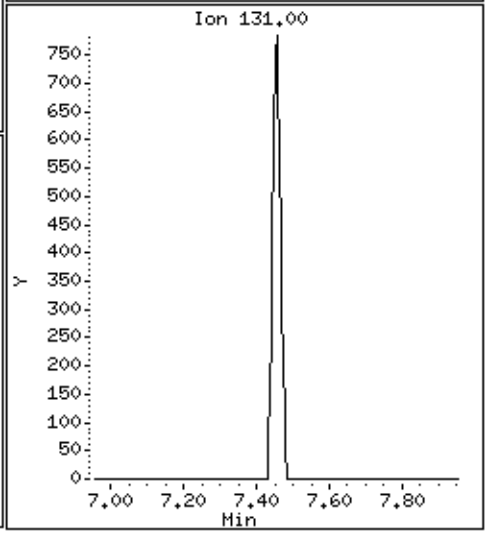
Concentration: 0.92 ug/l











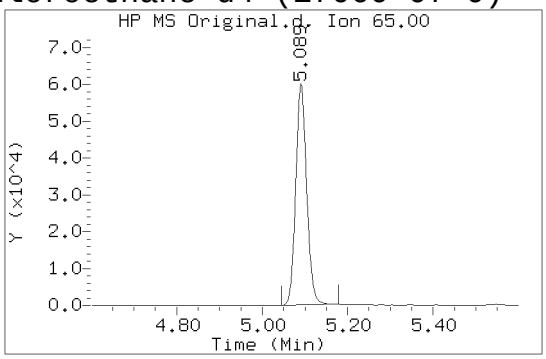
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\W052813.D
Inj Date : 30-MAY-2024 07:31
InstruID : VOA9.i
LabSampID : HS24051300-04

1,2-Dichloroethane-d4 (17060-07-0)

Reason Code:

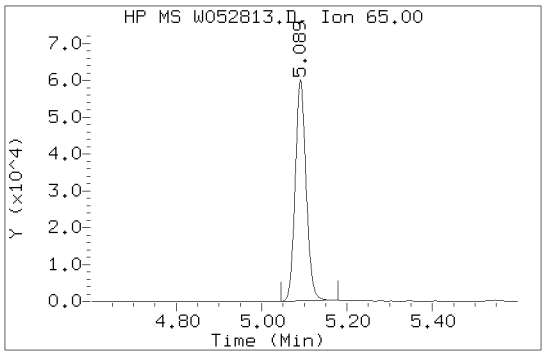
BEFORE

MASS
65
AREA
109124
HEIGHT
60111
22-Jun-2024
11:24
RUCHA
PATEL



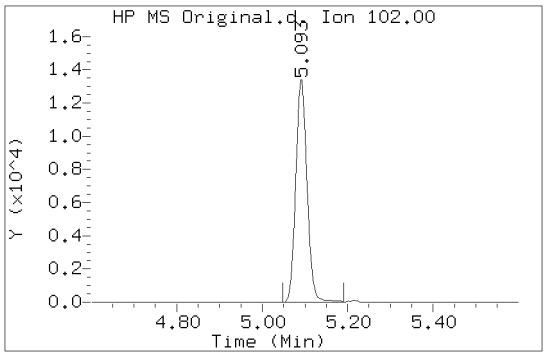
AFTER

MASS
65
AREA
109124
HEIGHT
60111
22-Jun-2024
11:37
RUCHA
PATEL



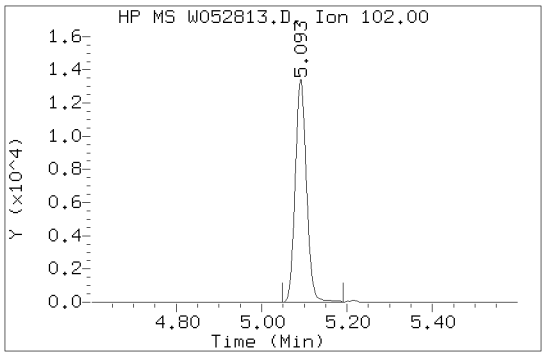
BEFORE

MASS
102
AREA
25215
HEIGHT
13391
22-Jun-2024
11:24
RUCHA
PATEL



AFTER

MASS
102
AREA
25215
HEIGHT
13391
22-Jun-2024
11:37
RUCHA
PATEL



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240529.b\W052814.D Page 1
Report Date: 22-Jun-2024 11:37

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\W052814.D
Lab Smp Id: HS24051300-05
Inj Date : 30-MAY-2024 07:52
Operator : FT   Inst ID: VOA9.i
Smp Info : HS24051300-05
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240529.b\8260C.m
Meth Date : 22-Jun-2024 11:36 r.patel   Quant Type: ISTD
Cal Date : 29-MAY-2024 13:53   Cal File: U052911.D
Als bottle: 55
Dil Factor: 1.00000
Integrator: HP RTE   Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

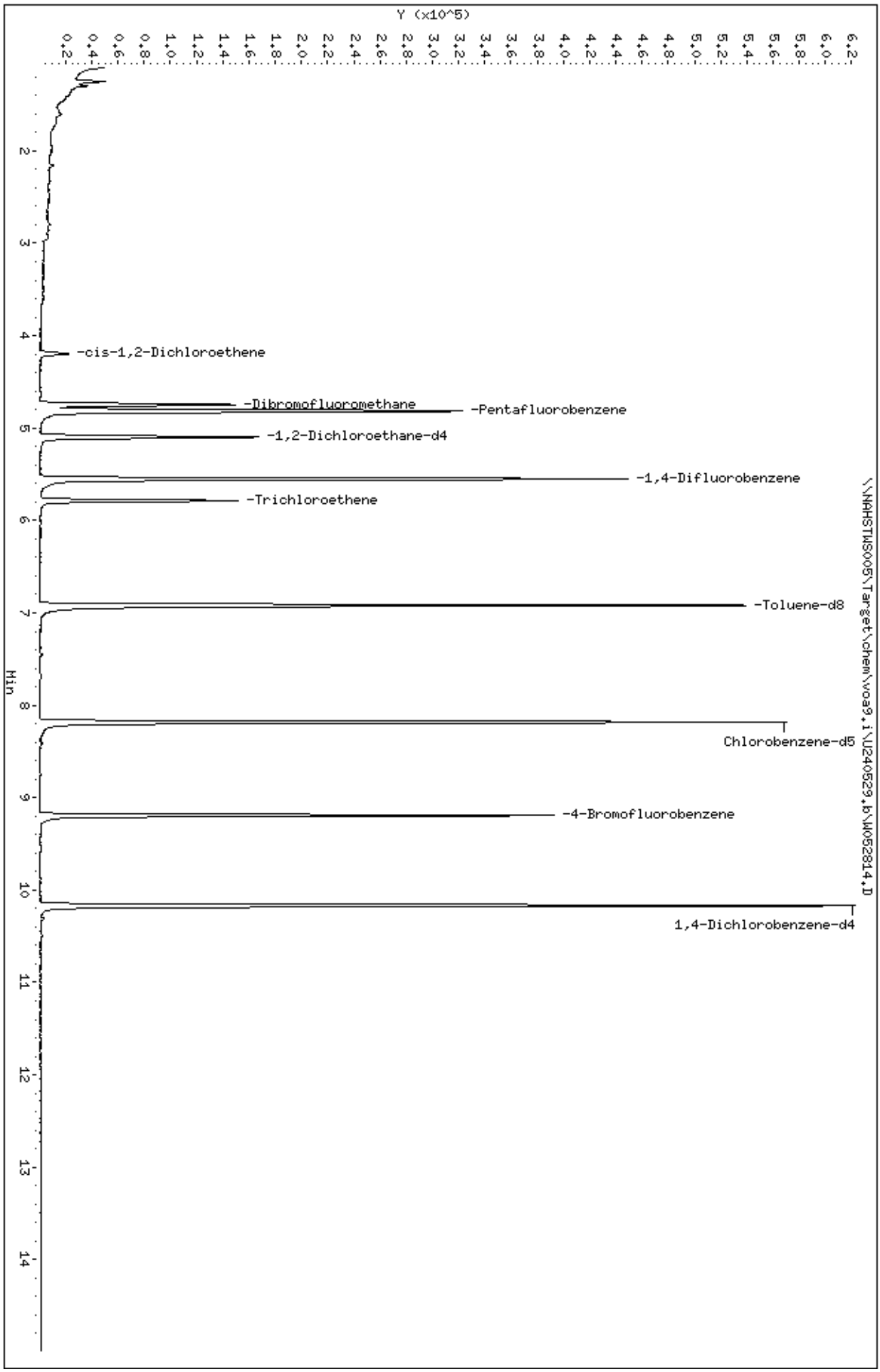
Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

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	4.815	4.815	(1.000)	237453	50.0000	
	27 cis-1,2-Dichloroethene	96	4.200	4.197	(0.872)	10222	4.67603	4.67
$	30 Dibromofluoromethane	113	4.748	4.748	(0.986)	87542	57.8413	57.84
$	35 1,2-Dichloroethane-d4	65	5.096	5.100	(1.058)	107703	58.9405	58.94(M)
*	36 1,4-Difluorobenzene	114	5.550	5.554	(1.000)	348003	50.0000	
	38 Trichloroethene	130	5.786	5.786	(1.043)	48378	23.9796	23.97
*	47 Chlorobenzene-d5	117	8.181	8.185	(1.000)	318608	50.0000	
$	48 Toluene-d8	98	6.922	6.922	(0.846)	338146	55.6348	55.63(M)
$	69 4-Bromofluorobenzene	95	9.190	9.190	(1.123)	121264	54.7374	54.73
*	70 1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	161186	50.0000	
M	94 1,2-Dichloroethylene (total)	96				10222	5.16775	5.16(a)

QC Flag Legend

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


Data File: \\NAHSTWS005\Target\chem\voa9.i\U240529.b\W052814.D
Date : 30-MAY-2024 07:52
Client ID:
Sample Info: HS24051300-05
Purge Volume: 5.0
Column phase: DB624
Instrument: VOA9.i
Operator: FT
Column diameter: 0.18
Y (x10^5)
Min
-cis-1,2-Dichloroethene
-Dibromofluoromethane
-Pentafluorobenzene
-1,2-Dichloroethane-d4
-1,4-Difluorobenzene
-Trichloroethene
-Toluene-d8
Chlorobenzene-d5
-4-Bromofluorobenzene
1,4-Dichlorobenzene-d4
\\NAHSTWS005\Target\chem\voa9.i\U240529.b\W052814.D

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240529.b\W052814.D Page 2

Date : 30-MAY-2024 07:52

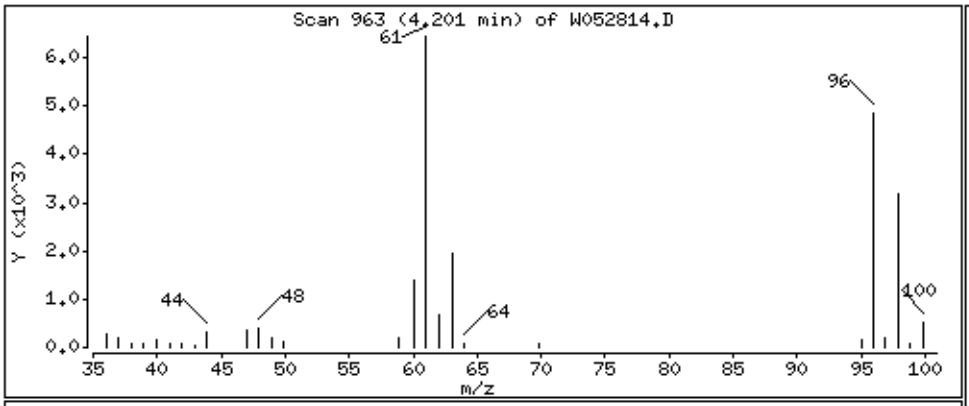
Client ID: Instrument: VOA9.i

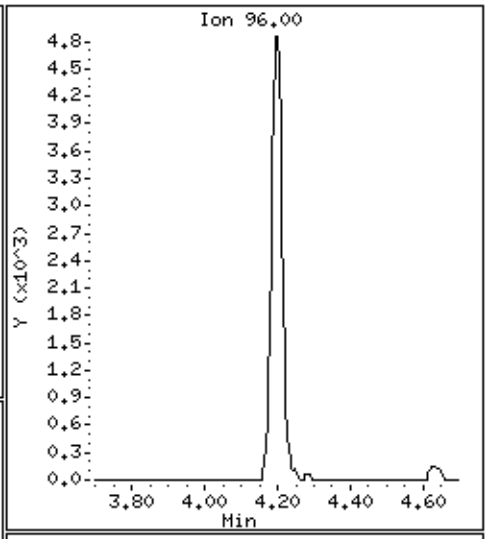
Sample Info: HS24051300-05

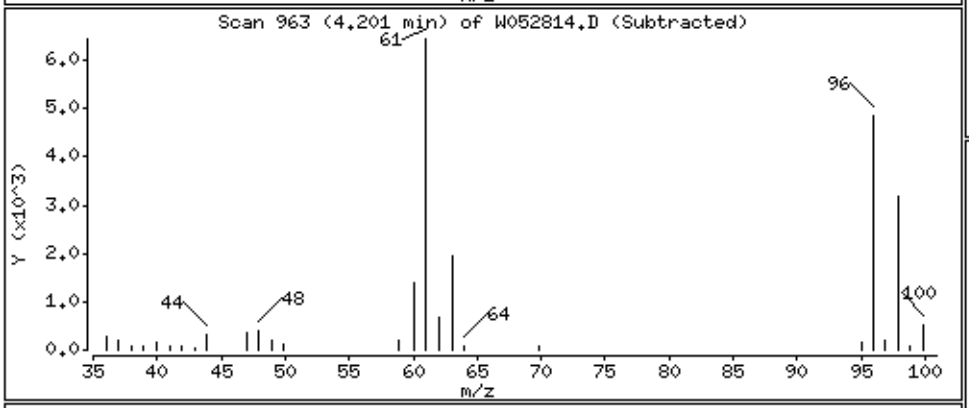
Purge Volume: 5.0 Operator: FT

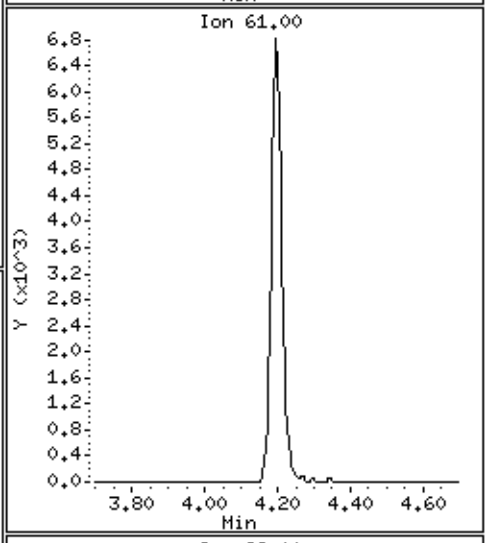
Column phase: DB624 Column diameter: 0.18

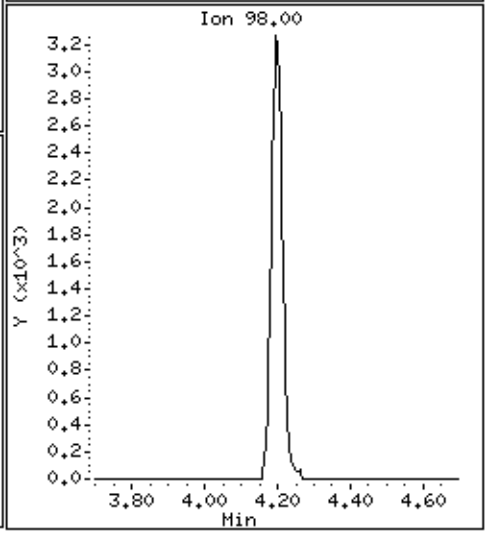
27 cis-1,2-Dichloroethene Concentration: 4.67 ug/l











Data File: \\NAHSTWS005\Target\chem\voa9.i\U240529.b\W052814.D

Date : 30-MAY-2024 07:52

Client ID:

Instrument: VOA9.i

Sample Info: HS24051300-05

Purge Volume: 5.0

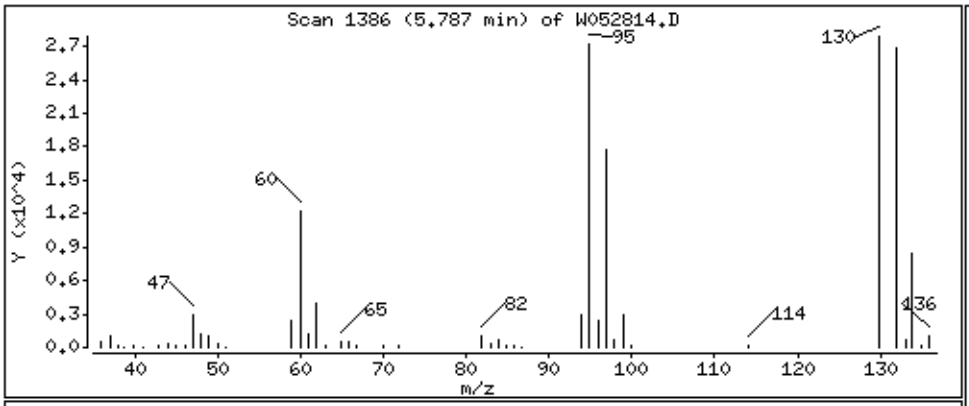
Operator: FT

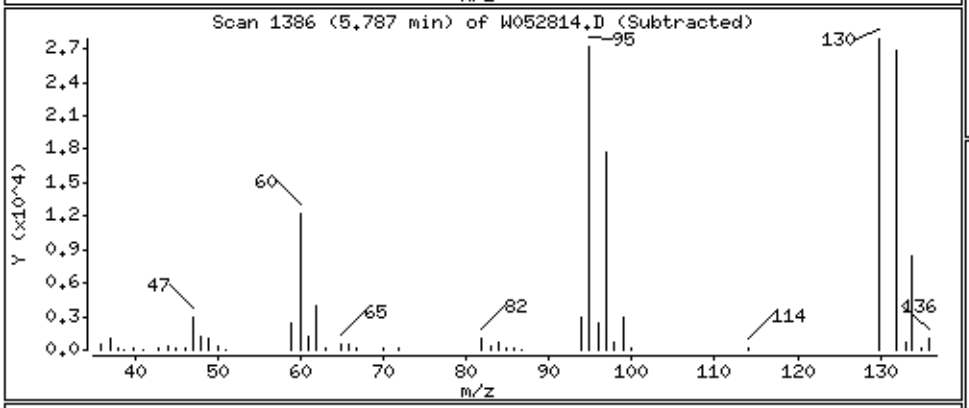
Column phase: DB624

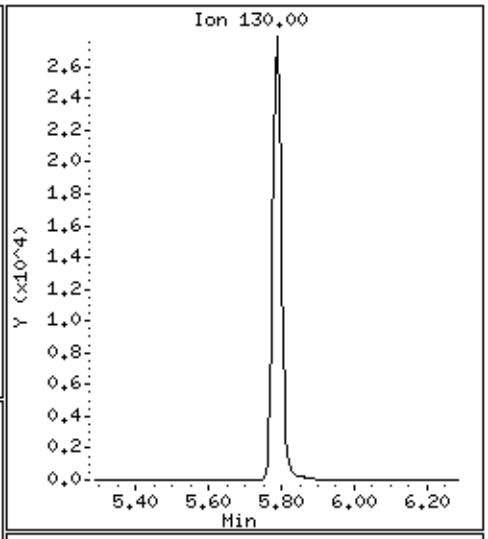
Column diameter: 0.18

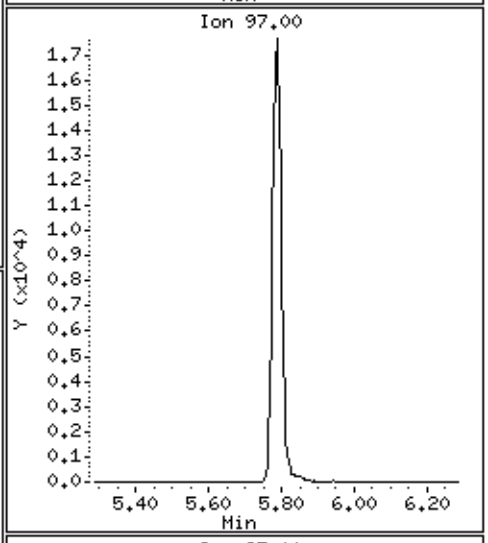
38 Trichloroethene

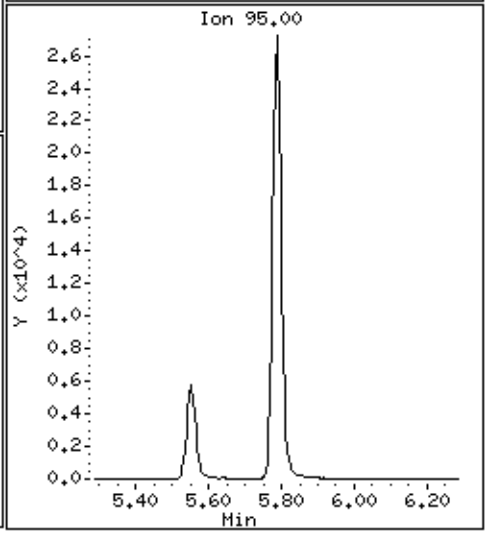
Concentration: 23.97 ug/l











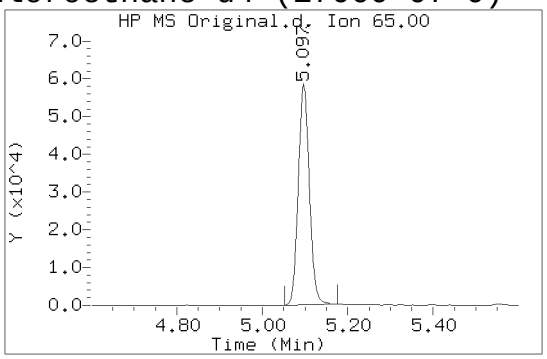
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\W052814.D
Inj Date : 30-MAY-2024 07:52
InstruID : VOA9.i
LabSampID : HS24051300-05

1,2-Dichloroethane-d4 (17060-07-0)

Reason Code:

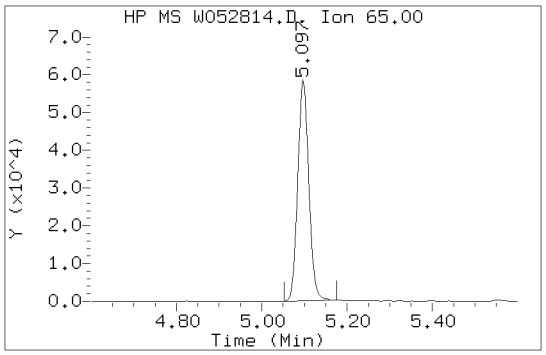
BEFORE

MASS
65
AREA
107703
HEIGHT
58543
22-Jun-2024
11:24
RUCHA
PATEL



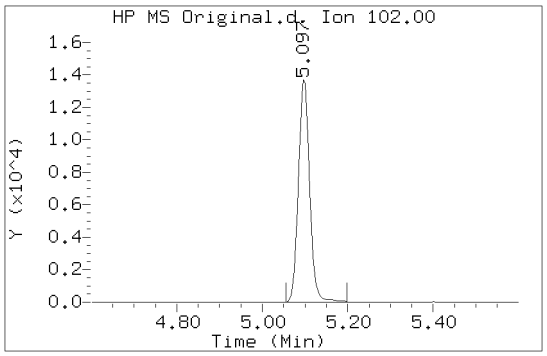
AFTER

MASS
65
AREA
107703
HEIGHT
58543
22-Jun-2024
11:37
RUCHA
PATEL



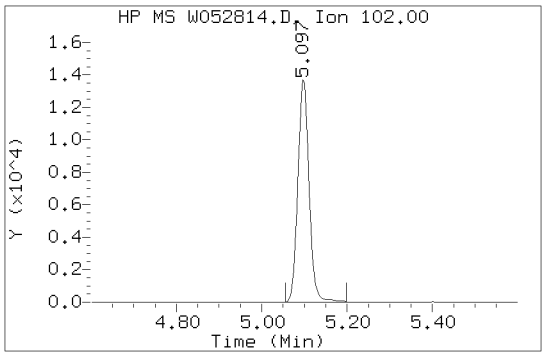
BEFORE

MASS
102
AREA
25587
HEIGHT
13695
22-Jun-2024
11:24
RUCHA
PATEL



AFTER

MASS
102
AREA
25587
HEIGHT
13695
22-Jun-2024
11:37
RUCHA
PATEL

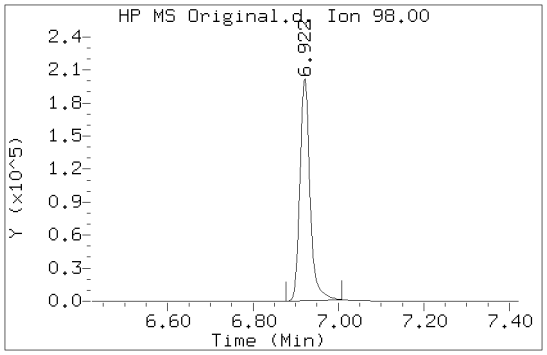


Toluene-d8 (2037-26-5)

Reason Code:

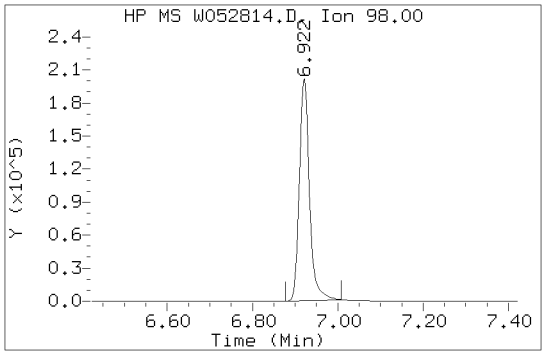
BEFORE

MASS
98
AREA
338146
HEIGHT
201363
22-Jun-2024
11:24
RUCHA
PATEL



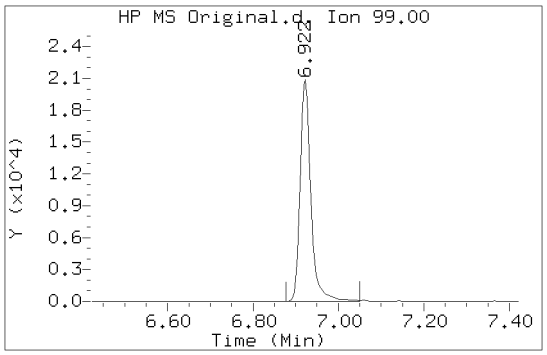
AFTER

MASS
98
AREA
338146
HEIGHT
201363
22-Jun-2024
11:37
RUCHA
PATEL



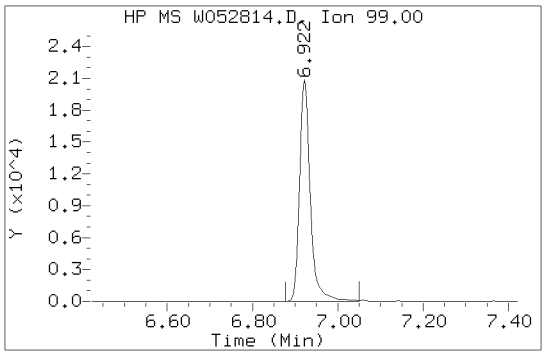
BEFORE

MASS
99
AREA
37227
HEIGHT
20872
22-Jun-2024
11:24
RUCHA
PATEL



AFTER

MASS
99
AREA
37227
HEIGHT
20872
22-Jun-2024
11:37
RUCHA
PATEL



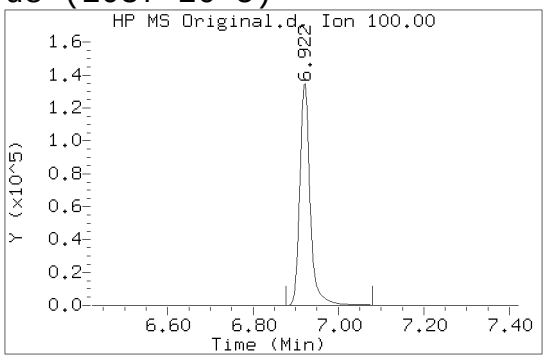
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\W052814.D
Inj Date : 30-MAY-2024 07:52
InstruID : VOA9.i
LabSampID : HS24051300-05

Toluene-d8 (2037-26-5)

Reason Code:

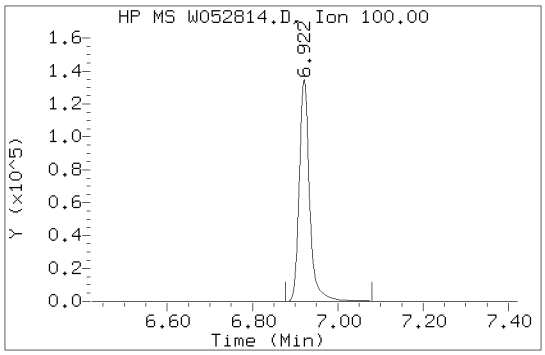
BEFORE

MASS
100
AREA
231748
HEIGHT
134784
22-Jun-2024
11:24
RUCHA
PATEL



AFTER

MASS
100
AREA
231748
HEIGHT
134784
22-Jun-2024
11:37
RUCHA
PATEL



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240529.b\W052815.D Page 1
Report Date: 22-Jun-2024 11:37

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\W052815.D
Lab Smp Id: HS24051300-07
Inj Date : 30-MAY-2024 08:13
Operator : FT   Inst ID: VOA9.i
Smp Info : HS24051300-07
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240529.b\8260C.m
Meth Date : 22-Jun-2024 11:36 r.patel   Quant Type: ISTD
Cal Date : 29-MAY-2024 13:53   Cal File: U052911.D
Als bottle: 56
Dil Factor: 1.00000
Integrator: HP RTE   Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

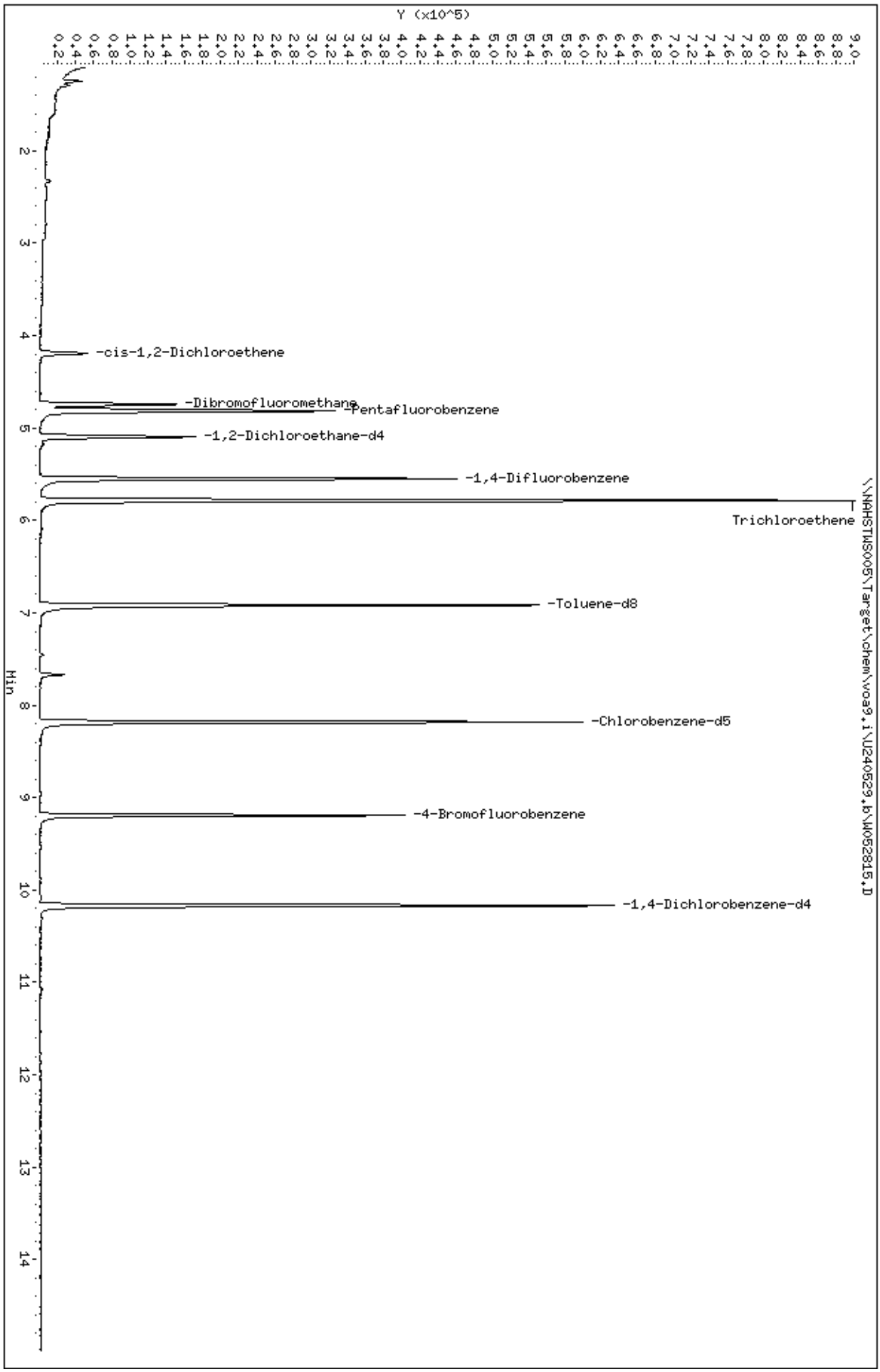
Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

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	4.811	4.815	(1.000)	242530	50.0000	
	27 cis-1,2-Dichloroethene	96	4.193	4.197	(0.871)	24774	11.0956	11.09
$	30 Dibromofluoromethane	113	4.744	4.748	(0.986)	87960	56.9224	56.92
$	35 1,2-Dichloroethane-d4	65	5.093	5.100	(1.058)	109740	58.7992	58.79(M)
*	36 1,4-Difluorobenzene	114	5.550	5.554	(1.000)	357783	50.0000	
	38 Trichloroethene	130	5.786	5.786	(1.043)	286219	137.993	137.99
*	47 Chlorobenzene-d5	117	8.181	8.185	(1.000)	329091	50.0000	
$	48 Toluene-d8	98	6.918	6.922	(0.846)	347794	55.4002	55.40(M)
$	69 4-Bromofluorobenzene	95	9.190	9.190	(1.123)	124687	54.4893	54.48
*	70 1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	164895	50.0000	
M	94 1,2-Dichloroethylene (total)	96				24774	12.2624	12.26

QC Flag Legend

M - Compound response manually integrated.


Data File: \\NAHSTWS005\Target\chem\voa9,i\U240529,b\W052815,D
Date : 30-MAY-2024 08:13
Client ID:
Sample Info: HS2405130O-07
Purge Volume: 5.0
Column phase: DB624
Instrument: VOA9,i
Operator: FT
Column diameter: 0.18
Y (x10^5)
Min
-cis-1,2-Dichloroethene
-Dibromofluoromethane
-Pentafluorobenzene
-1,2-Dichloroethane-d4
-1,4-Difluorobenzene
Trichloroethene
-Toluene-d8
-Chlorobenzene-d5
-4-Bromofluorobenzene
-1,4-Dichlorobenzene-d4
\\NAHSTWS005\Target\chem\voa9,i\U240529,b\W052815,D

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240529.b\W052815.D

Date : 30-MAY-2024 08:13

Client ID:

Instrument: VOA9.i

Sample Info: HS24051300-07

Purge Volume: 5.0

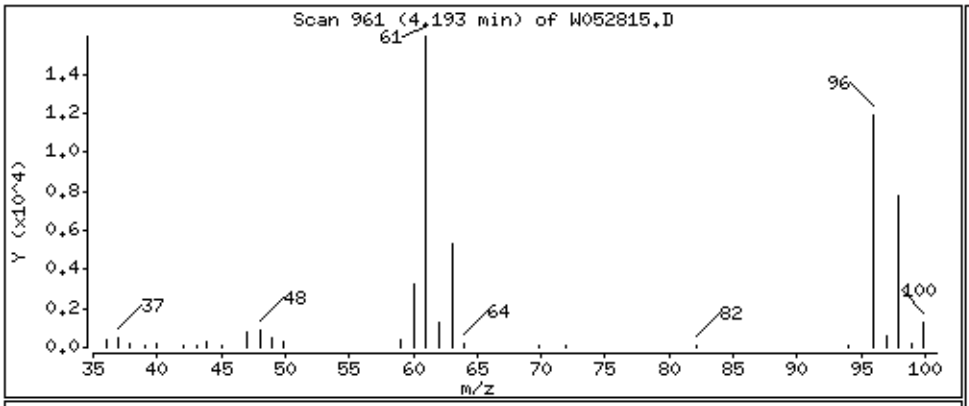
Operator: FT

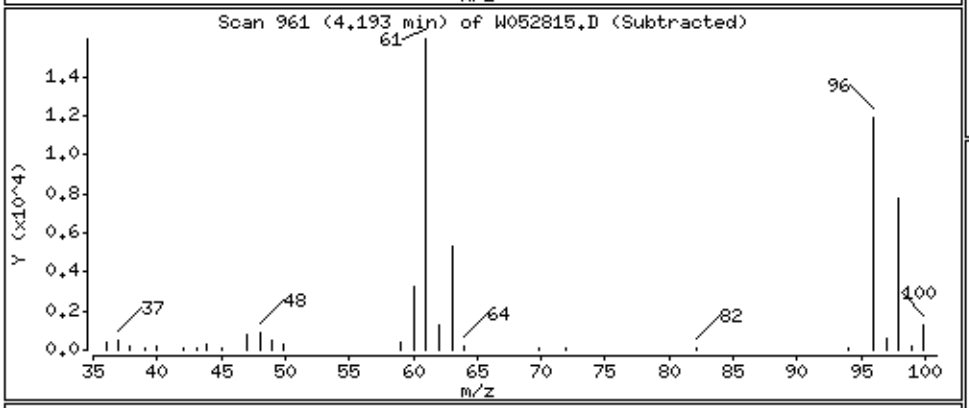
Column phase: DB624

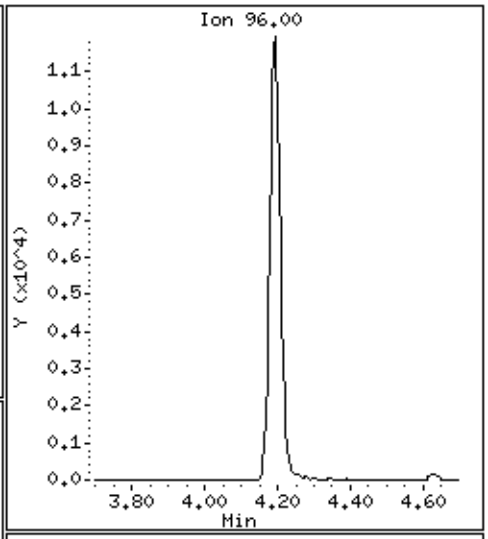
Column diameter: 0.18

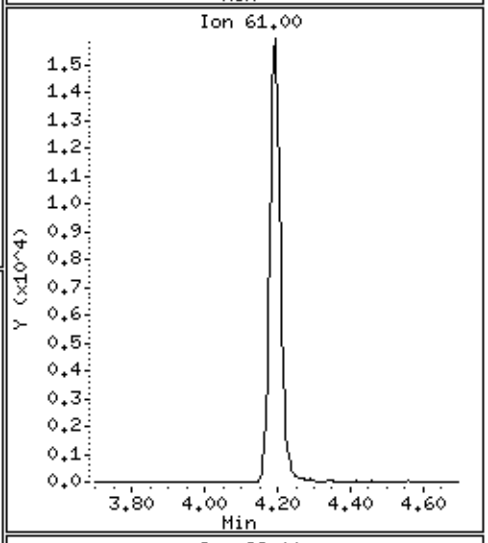
27 cis-1,2-Dichloroethene

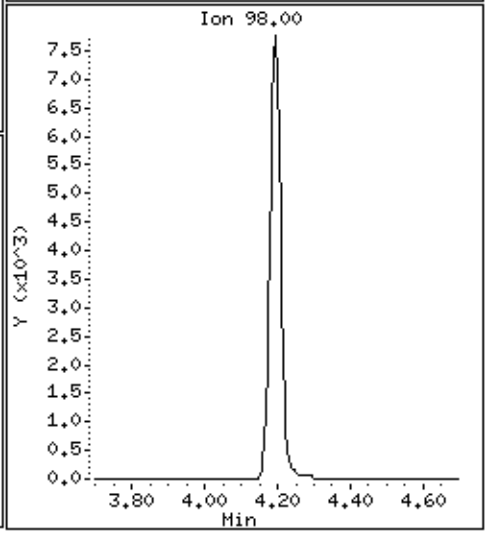
Concentration: 11.09 ug/l











Data File: \\NAHSTWS005\Target\chem\voa9.i\U240529.b\W052815.D Page 3

Date : 30-MAY-2024 08:13

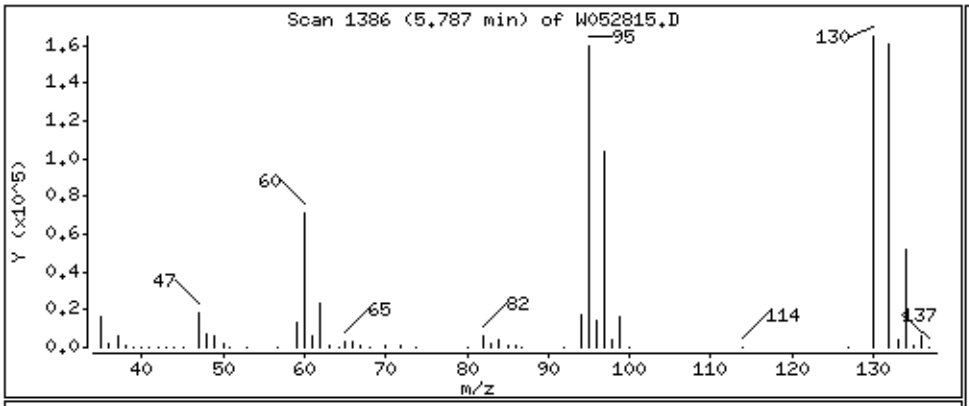
Client ID: Instrument: VOA9.i

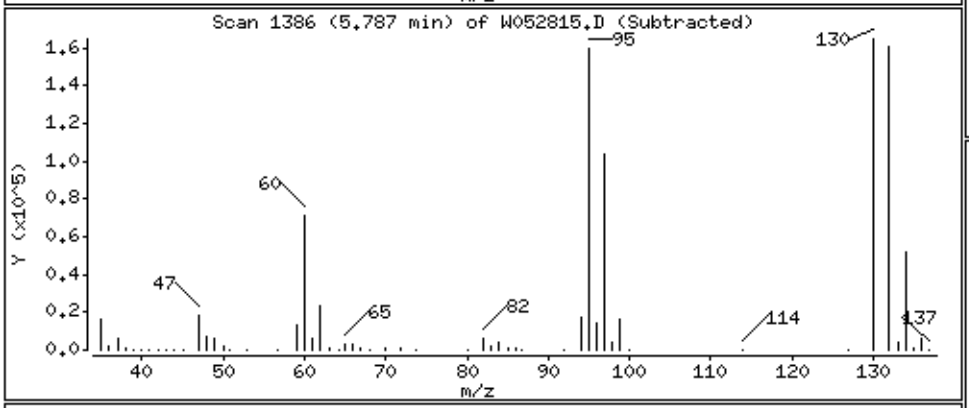
Sample Info: HS24051300-07

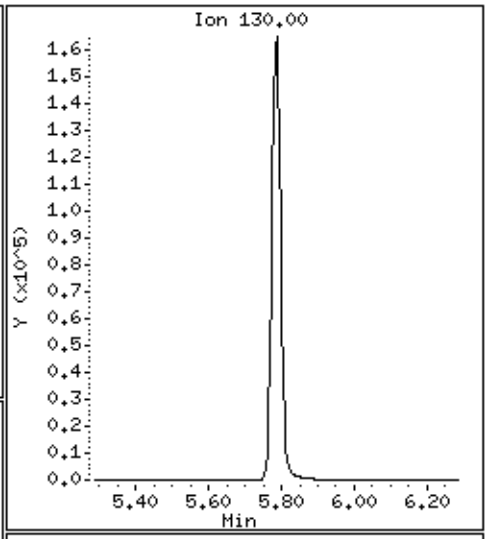
Purge Volume: 5.0 Operator: FT

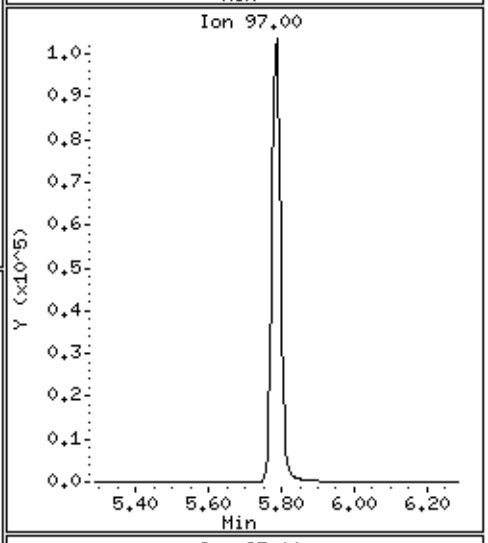
Column phase: DB624 Column diameter: 0.18

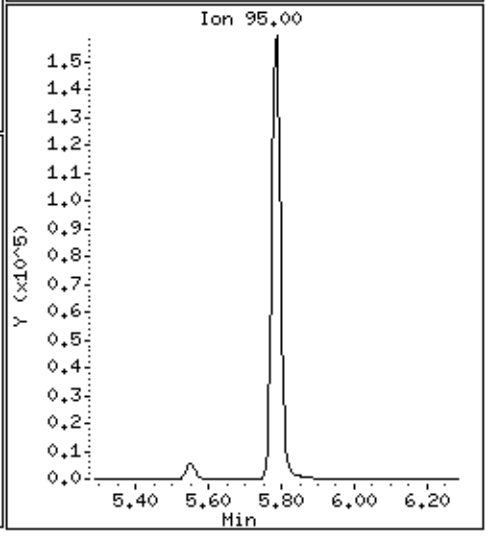
38 Trichloroethene Concentration: 137.99 ug/l











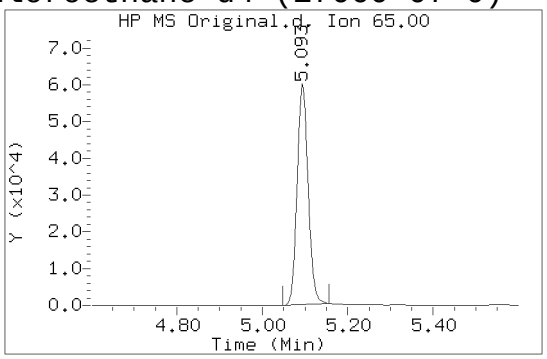
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\W052815.D
Inj Date : 30-MAY-2024 08:13
InstruID : VOA9.i
LabSampID : HS24051300-07

1,2-Dichloroethane-d4 (17060-07-0)

Reason Code:

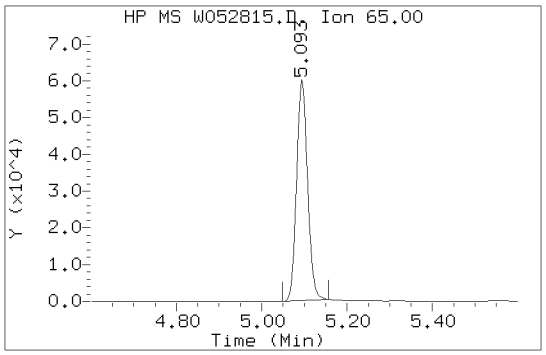
BEFORE

MASS
65
AREA
109740
HEIGHT
60102
22-Jun-2024
11:24
RUCHA
PATEL



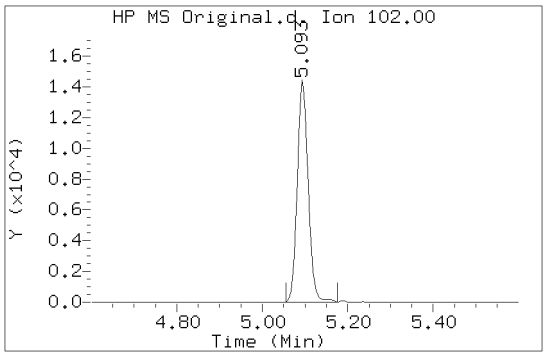
AFTER

MASS
65
AREA
109740
HEIGHT
60102
22-Jun-2024
11:37
RUCHA
PATEL



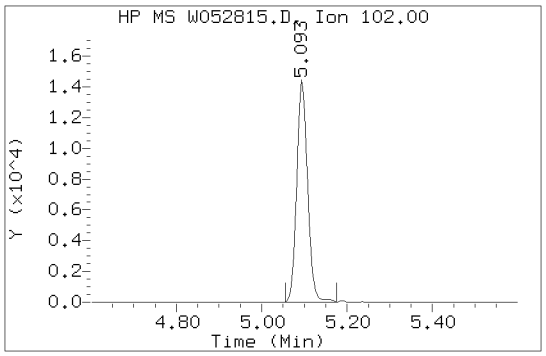
BEFORE

MASS
102
AREA
26151
HEIGHT
14455
22-Jun-2024
11:24
RUCHA
PATEL



AFTER

MASS
102
AREA
26151
HEIGHT
14455
22-Jun-2024
11:37
RUCHA
PATEL

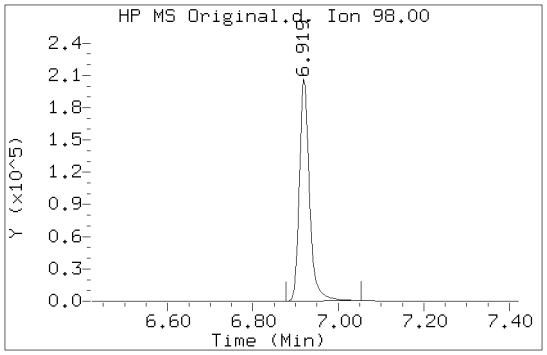


Toluene-d8 (2037-26-5)

Reason Code:

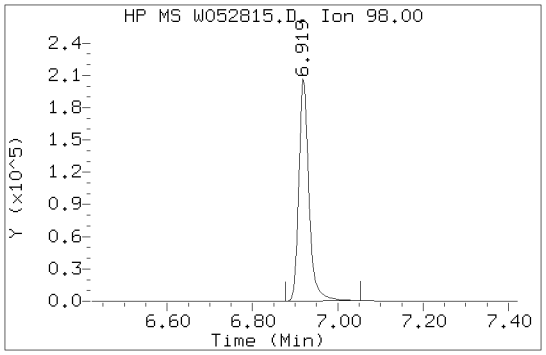
BEFORE

MASS
98
AREA
347794
HEIGHT
206686
22-Jun-2024
11:24
RUCHA
PATEL



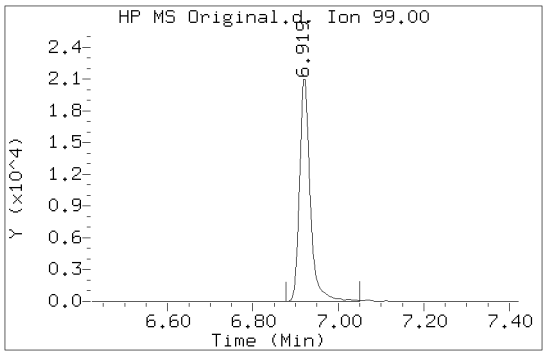
AFTER

MASS
98
AREA
347794
HEIGHT
206686
22-Jun-2024
11:37
RUCHA
PATEL



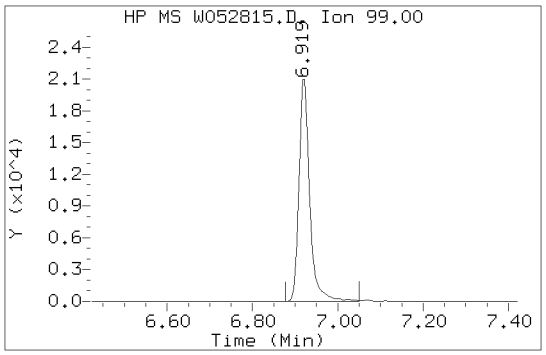
BEFORE

MASS
99
AREA
37464
HEIGHT
20944
22-Jun-2024
11:24
RUCHA
PATEL



AFTER

MASS
99
AREA
37464
HEIGHT
20944
22-Jun-2024
11:37
RUCHA
PATEL



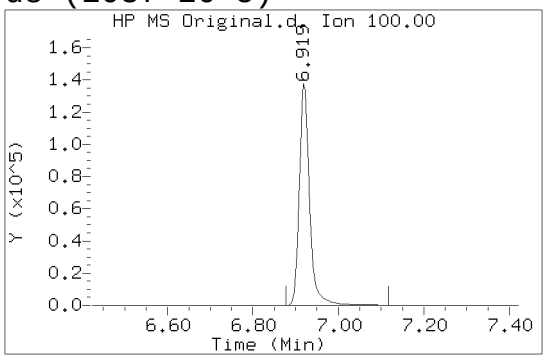
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\W052815.D
Inj Date : 30-MAY-2024 08:13
InstruID : VOA9.i
LabSampID : HS24051300-07

Toluene-d8 (2037-26-5)

Reason Code:

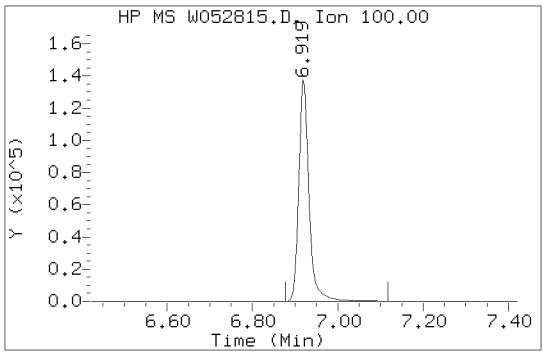
BEFORE

MASS
100
AREA
234910
HEIGHT
137664
22-Jun-2024
11:24
RUCHA
PATEL



AFTER

MASS
100
AREA
234910
HEIGHT
137664
22-Jun-2024
11:37
RUCHA
PATEL



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240529.b\W052816.D Page 1
Report Date: 22-Jun-2024 11:37

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\W052816.D
Lab Smp Id: HS24051300-08
Inj Date : 30-MAY-2024 08:35
Operator : FT   Inst ID: VOA9.i
Smp Info : HS24051300-08
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240529.b\8260C.m
Meth Date : 22-Jun-2024 11:36 r.patel   Quant Type: ISTD
Cal Date : 29-MAY-2024 13:53   Cal File: U052911.D
Als bottle: 57
Dil Factor: 1.00000
Integrator: HP RTE   Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

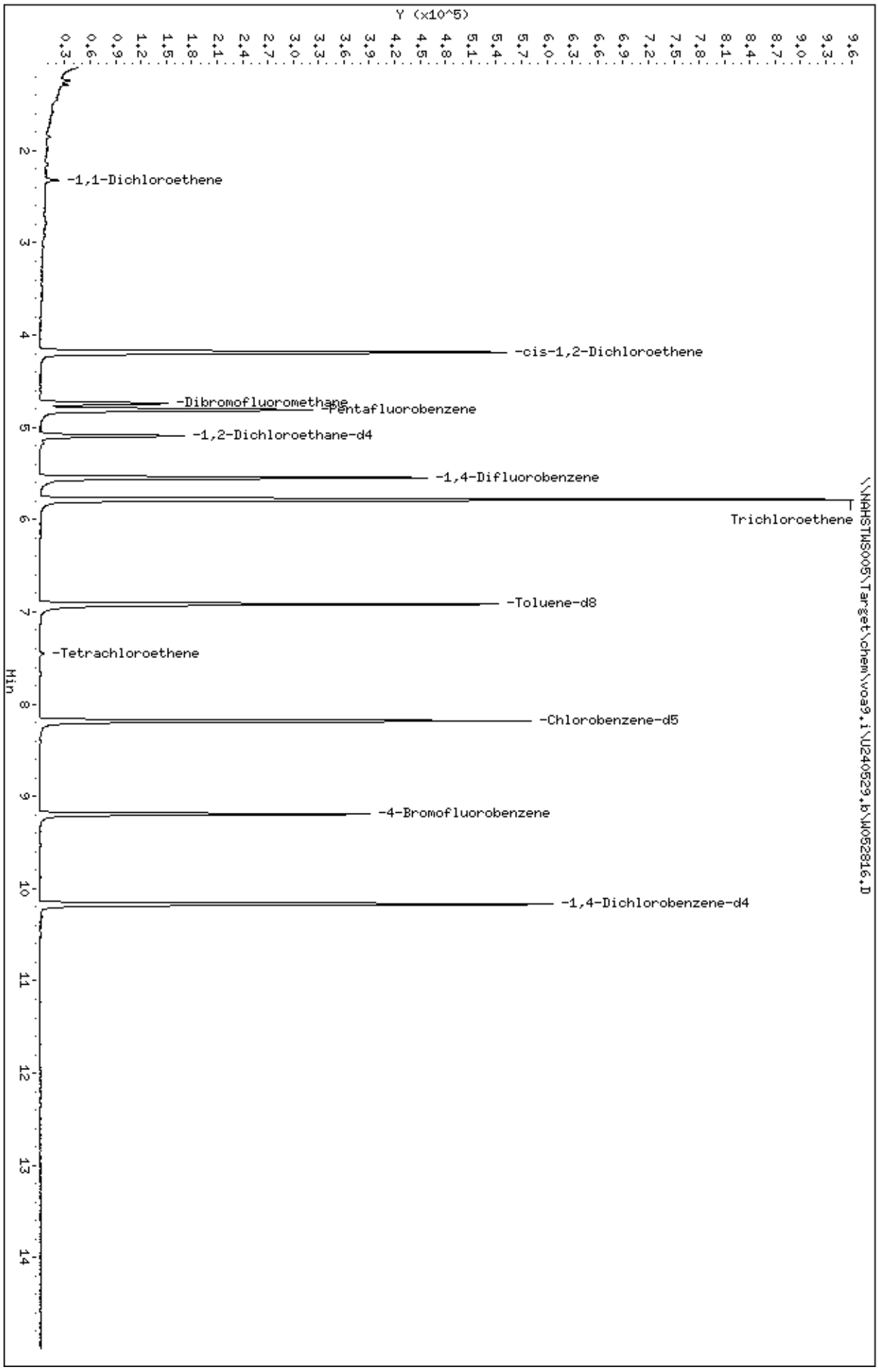
Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

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

			QUANT SIG					CONCENTRATIONS ON-COLUMN	FINAL
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/l)	(ug/l)
*	1	Pentafluorobenzene	168	4.808	4.815	(1.000)	240842	50.0000	
	11	1,1-Dichloroethene	96	2.322	2.334	(0.483)	4967	3.12847	3.12
	27	cis-1,2-Dichloroethene	96	4.189	4.197	(0.871)	267528	120.658	120.65
$	30	Dibromofluoromethane	113	4.740	4.748	(0.986)	89323	58.1794	58.17
$	35	1,2-Dichloroethane-d4	65	5.089	5.100	(1.058)	109024	58.8248	58.82(M)
*	36	1,4-Difluorobenzene	114	5.546	5.554	(1.000)	356787	50.0000	
	38	Trichloroethene	130	5.782	5.786	(1.043)	307411	148.624	148.62
*	47	Chlorobenzene-d5	117	8.182	8.185	(1.000)	322510	50.0000	
$	48	Toluene-d8	98	6.918	6.922	(0.846)	343846	55.8872	55.88
	56	Tetrachloroethene	164	7.451	7.454	(0.911)	1211	0.79204	0.79(a)
$	69	4-Bromofluorobenzene	95	9.190	9.190	(1.123)	120435	53.7037	53.70
*	70	1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	160504	50.0000	
M	94	1,2-Dichloroethylene (total)	96				267528	133.346	133.34

QC Flag Legend

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


Data File: \\NAHSTWS005\Target\chem\voa9.i\U240529.b\W052816.D
Date : 30-MAY-2024 08:35
Client ID:
Sample Info: HS24051300-08
Purge Volume: 5.0
Column phase: DB624
Instrument: VOA9.i
Operator: FT
Column diameter: 0.18
Y (x10^5)
Min
-1,1-Dichloroethene
-cis-1,2-Dichloroethene
-Dibromofluoromethane
-Pentafluorobenzene
-1,2-Dichloroethane-d4
-1,4-Difluorobenzene
Trichloroethene
-Toluene-d8
-Tetrachloroethene
-Chlorobenzene-d5
-4-Bromofluorobenzene
-1,4-Dichlorobenzene-d4
\\NAHSTWS005\Target\chem\voa9.i\U240529.b\W052816.D

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240529.b\W052816.D

Date : 30-MAY-2024 08:35

Client ID:

Instrument: VOA9.i

Sample Info: HS24051300-08

Purge Volume: 5.0

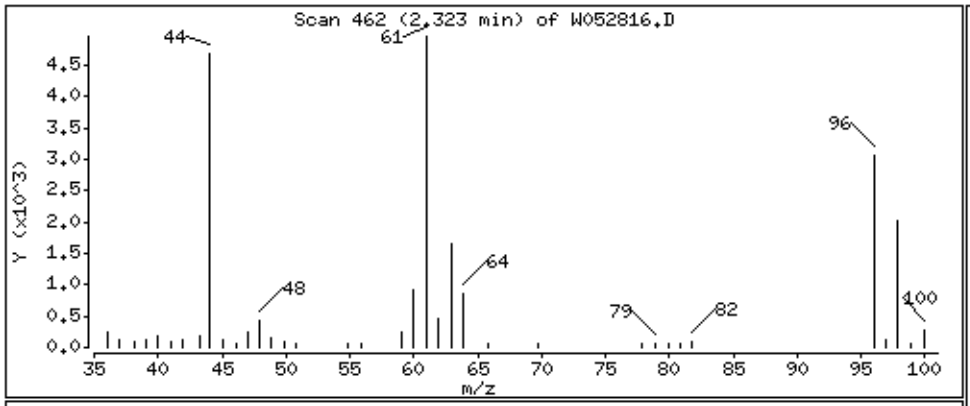
Operator: FT

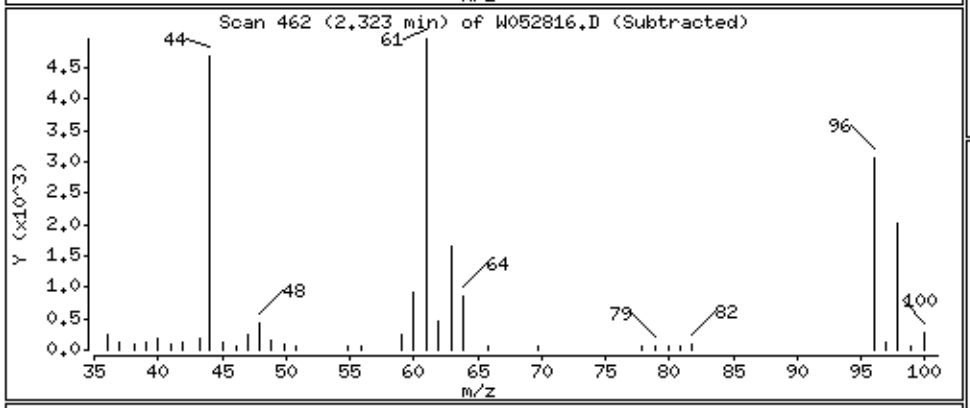
Column phase: DB624

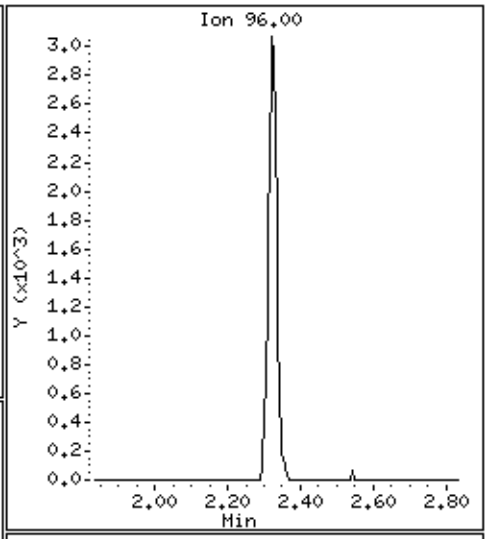
Column diameter: 0.18

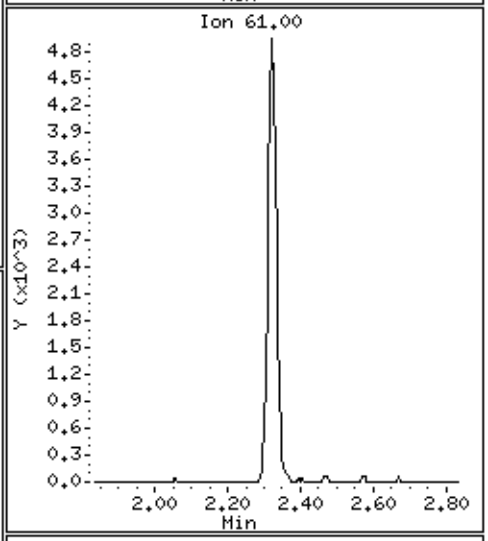
11 1,1-Dichloroethene

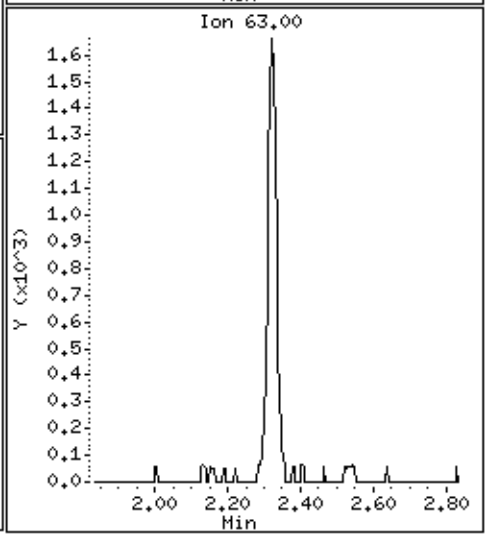
Concentration: 3.12 ug/l











Data File: \\NAHSTWS005\Target\chem\voa9.i\U240529.b\W052816.D

Date : 30-MAY-2024 08:35

Client ID:

Instrument: VOA9.i

Sample Info: HS24051300-08

Purge Volume: 5.0

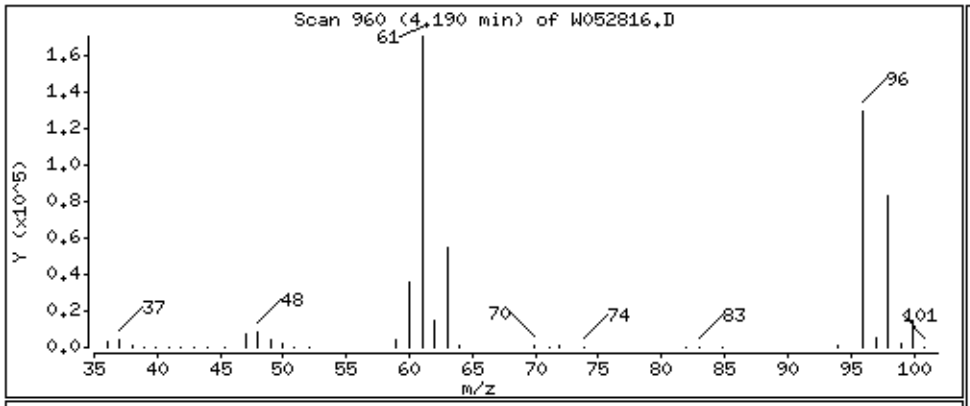
Operator: FT

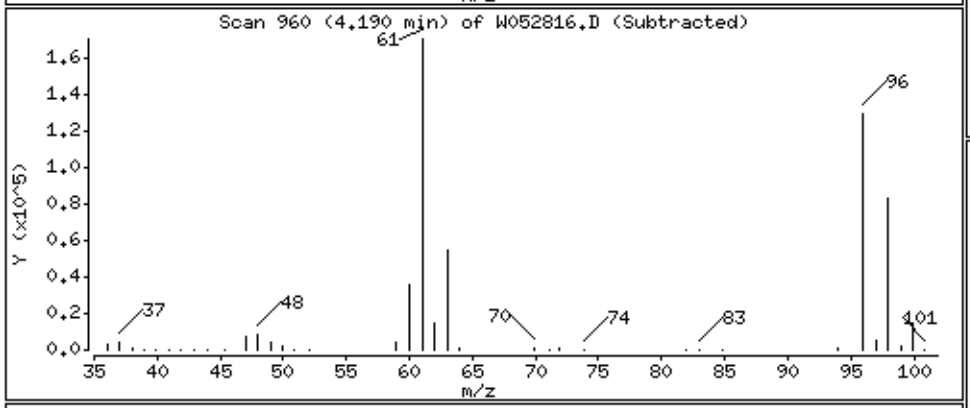
Column phase: DB624

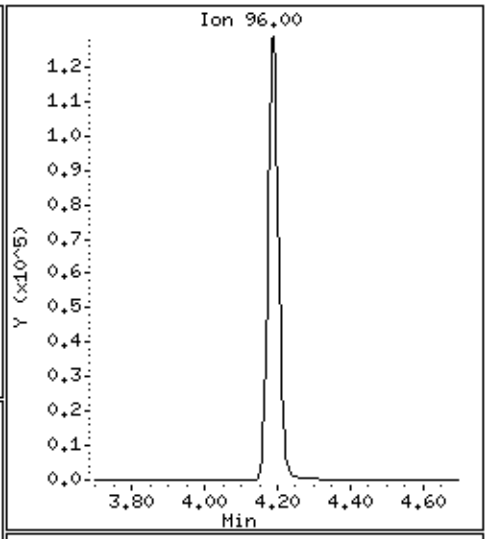
Column diameter: 0.18

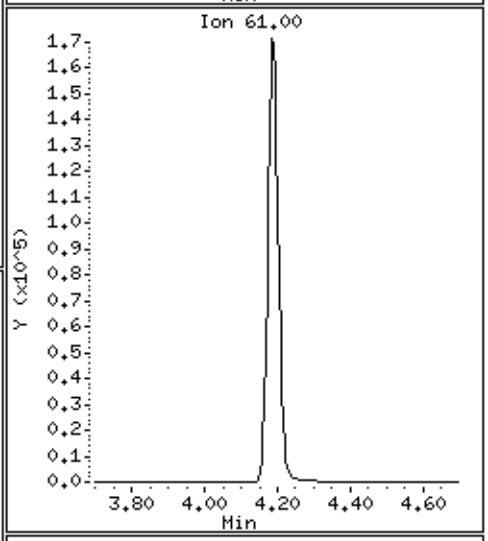
27 cis-1,2-Dichloroethene

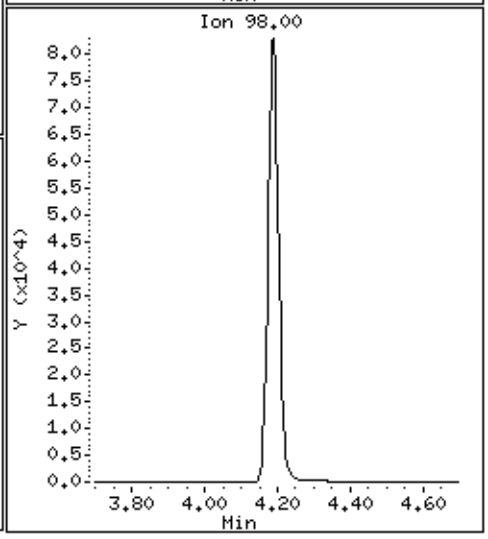
Concentration: 120.65 ug/l











Data File: \\NAHSTWS005\Target\chem\voa9.i\U240529.b\W052816.D

Date : 30-MAY-2024 08:35

Client ID:

Instrument: VOA9.i

Sample Info: HS24051300-08

Purge Volume: 5.0

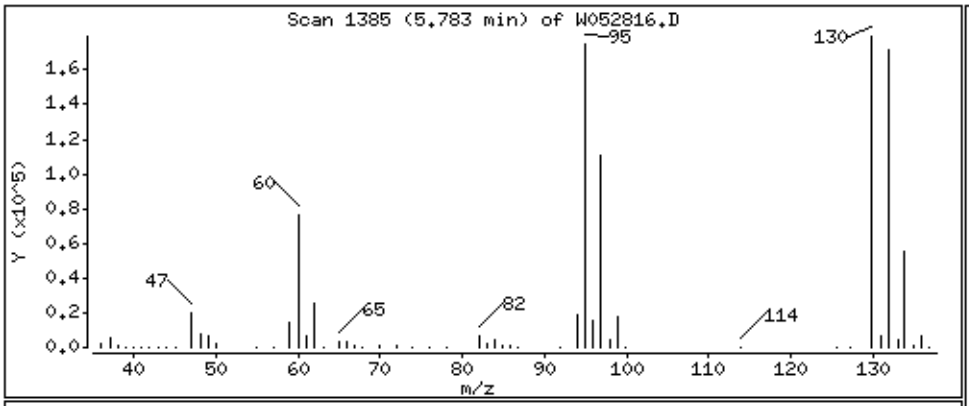
Operator: FT

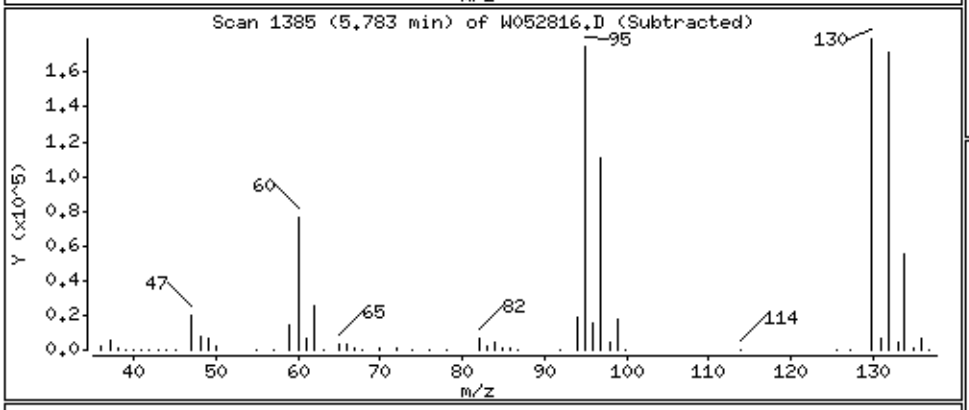
Column phase: DB624

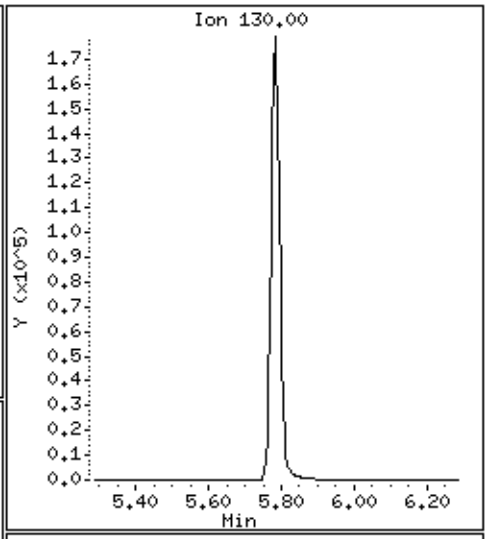
Column diameter: 0.18

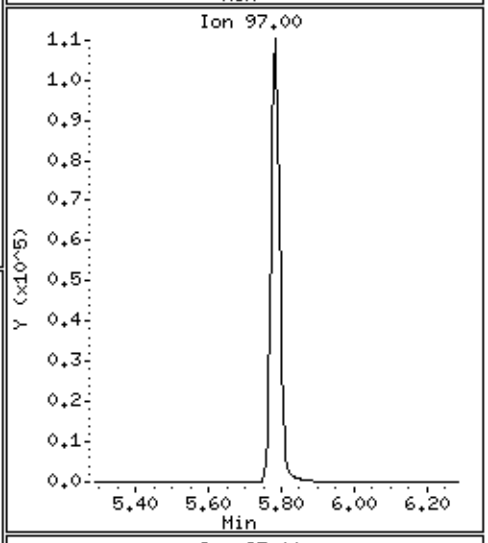
38 Trichloroethene

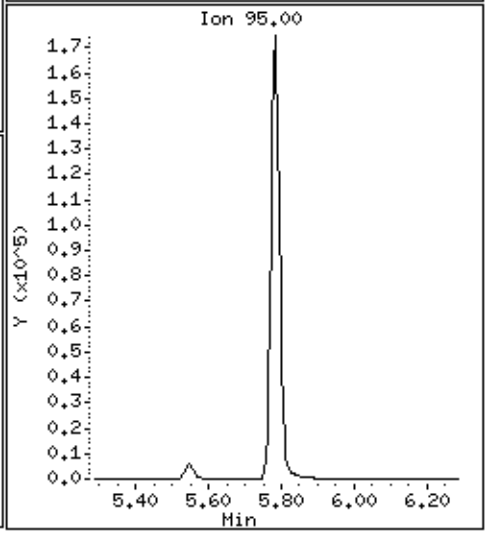
Concentration: 148.62 ug/l











Data File: \\NAHSTWS005\Target\chem\voa9.i\U240529.b\W052816.D

Date : 30-MAY-2024 08:35

Client ID:

Instrument: VOA9.i

Sample Info: HS24051300-08

Purge Volume: 5.0

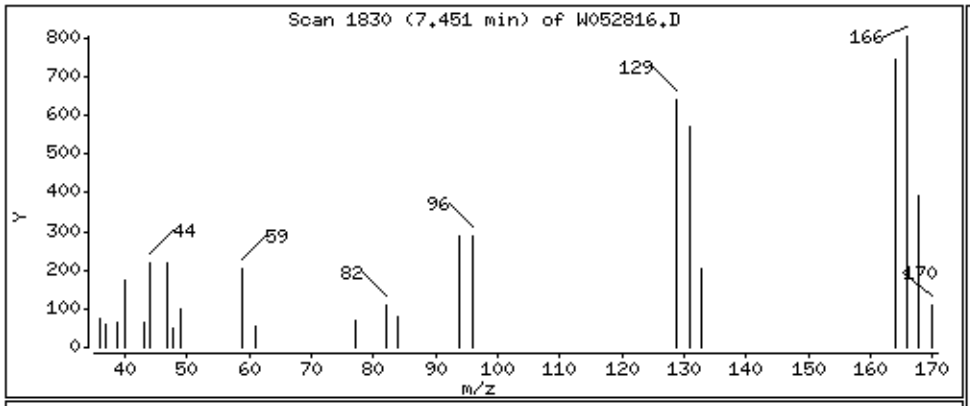
Operator: FT

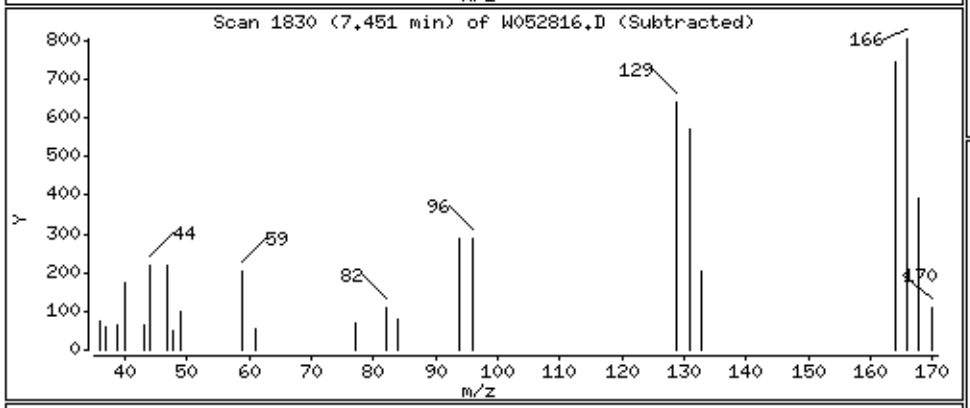
Column phase: DB624

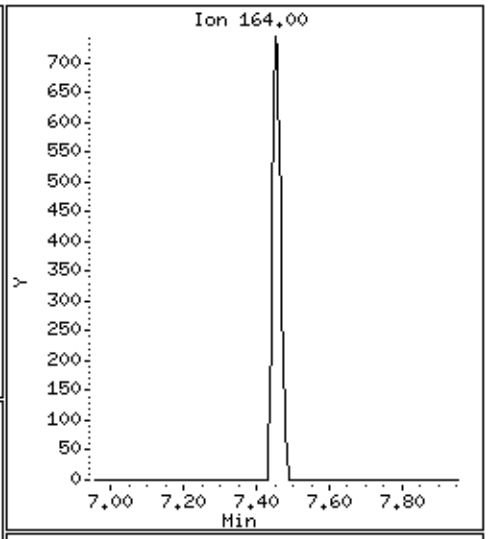
Column diameter: 0.18

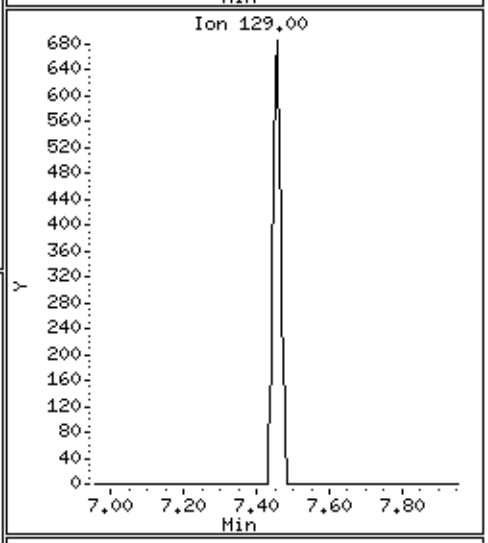
56 Tetrachloroethene

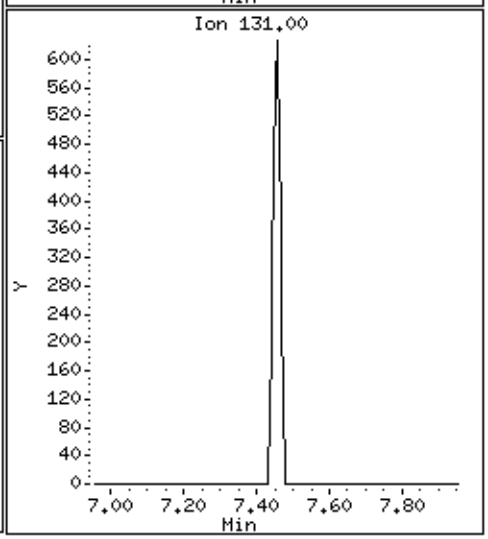
Concentration: 0.79 ug/l











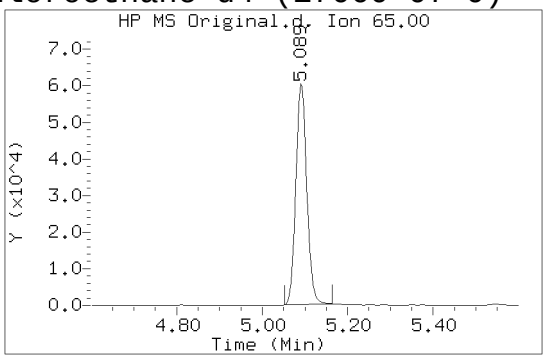
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\W052816.D
Inj Date : 30-MAY-2024 08:35
InstruID : VOA9.i
LabSampID : HS24051300-08

1,2-Dichloroethane-d4 (17060-07-0)

Reason Code:

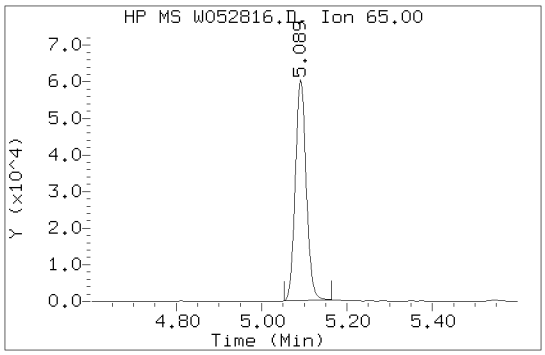
BEFORE

MASS
65
AREA
109024
HEIGHT
60346
22-Jun-2024
11:24
RUCHA
PATEL



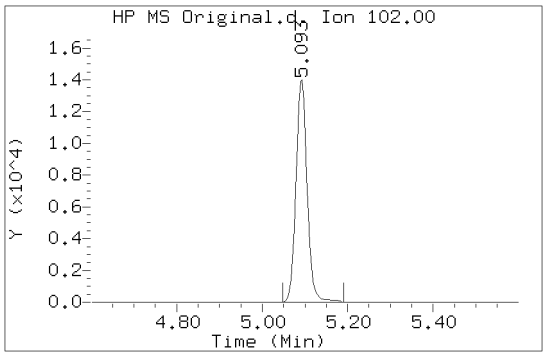
AFTER

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22-Jun-2024
11:37
RUCHA
PATEL



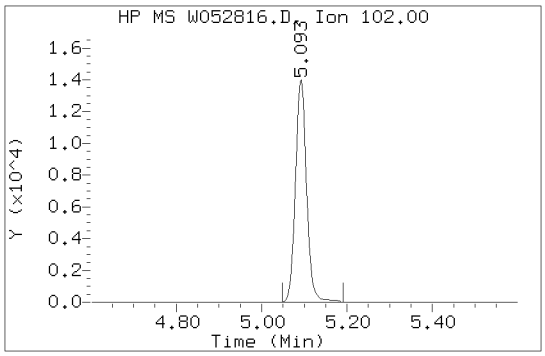
BEFORE

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AREA
25894
HEIGHT
13996
22-Jun-2024
11:24
RUCHA
PATEL



AFTER

MASS
102
AREA
25894
HEIGHT
13996
22-Jun-2024
11:37
RUCHA
PATEL



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240529.b\W052817.D Page 1
Report Date: 22-Jun-2024 11:37

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\W052817.D
Lab Smp Id: HS24051300-09
Inj Date : 30-MAY-2024 08:56
Operator : FT   Inst ID: VOA9.i
Smp Info : HS24051300-09
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240529.b\8260C.m
Meth Date : 22-Jun-2024 11:36 r.patel   Quant Type: ISTD
Cal Date : 29-MAY-2024 13:53   Cal File: U052911.D
Als bottle: 58
Dil Factor: 1.00000
Integrator: HP RTE   Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

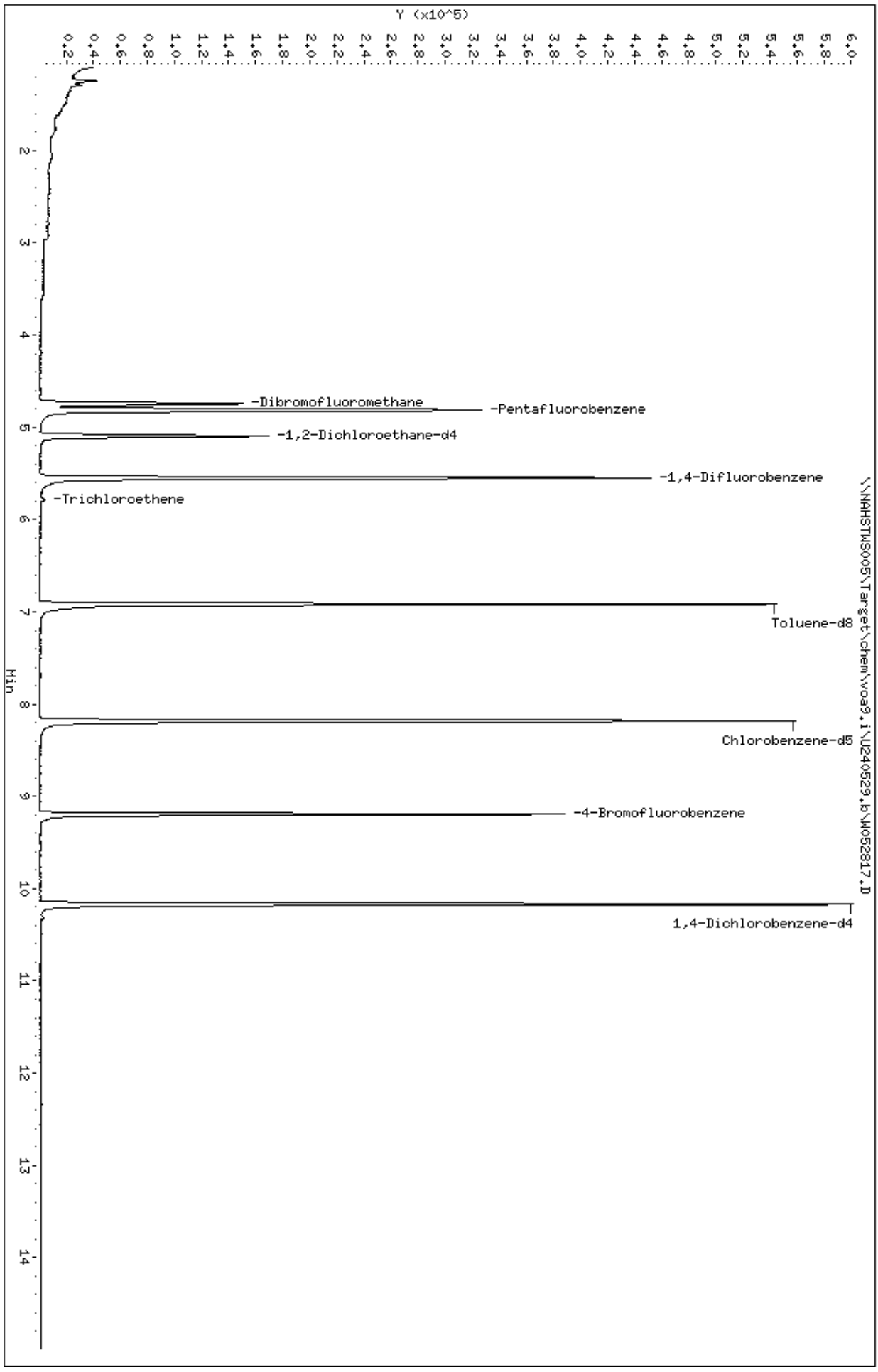
Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

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

		QUANT SIG						CONCENTRATIONS ON-COLUMN	FINAL
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE		(ug/l)	(ug/l)
*	1 Pentafluorobenzene	168	4.811	4.815	(1.000)	235797		50.0000	
$	30 Dibromofluoromethane	113	4.744	4.748	(0.986)	86957		57.8579	57.85
$	35 1,2-Dichloroethane-d4	65	5.092	5.100	(1.058)	106809		58.8624	58.86(M)
*	36 1,4-Difluorobenzene	114	5.550	5.554	(1.000)	350002		50.0000	
	38 Trichloroethene	130	5.786	5.786	(1.043)	946		0.46623	0.46(a)
*	47 Chlorobenzene-d5	117	8.181	8.185	(1.000)	312736		50.0000	
$	48 Toluene-d8	98	6.918	6.922	(0.846)	330056		55.3245	55.32(M)
$	69 4-Bromofluorobenzene	95	9.193	9.190	(1.124)	120875		55.5879	55.58
*	70 1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	158908		50.0000	

QC Flag Legend

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


Data File: \\NAHSTWS005\Target\chem\voa9.i\U240529.b\W052817.D
Date : 30-MAY-2024 08:56
Client ID:
Sample Info: HS24051300-09
Purge Volume: 5.0
Column phase: DB624
Instrument: VOA9.i
Operator: FT
Column diameter: 0.18
Y (x10^5)
Min
-Dibromofluoromethane
-Pentafluorobenzene
-1,2-Dichloroethane-d4
-1,4-Difluorobenzene
-Trichloroethene
Toluene-d8
Chlorobenzene-d5
-4-Bromofluorobenzene
1,4-Dichlorobenzene-d4
\\NAHSTWS005\Target\chem\voa9.i\U240529.b\W052817.D

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240529.b\W052817.D Page 2

Date : 30-MAY-2024 08:56

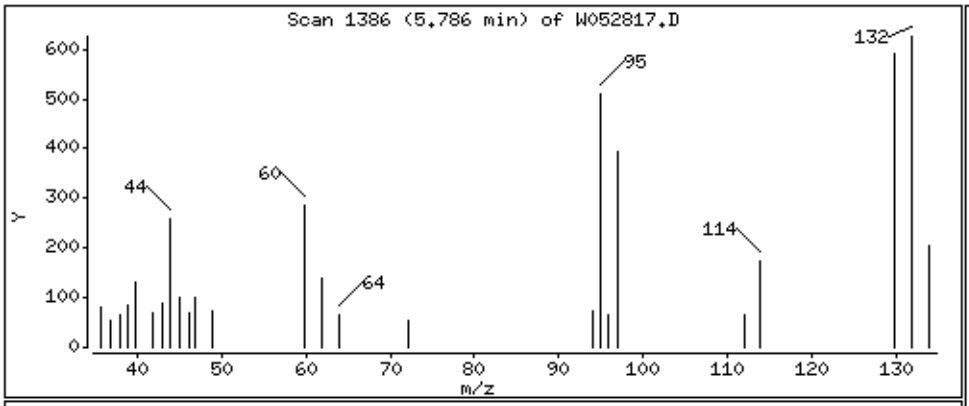
Client ID: Instrument: VOA9.i

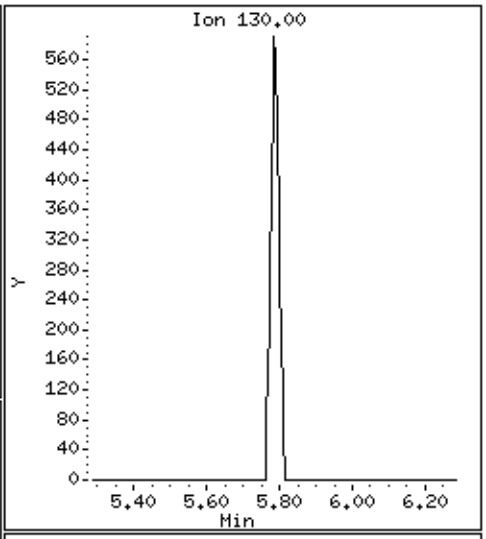
Sample Info: HS24051300-09

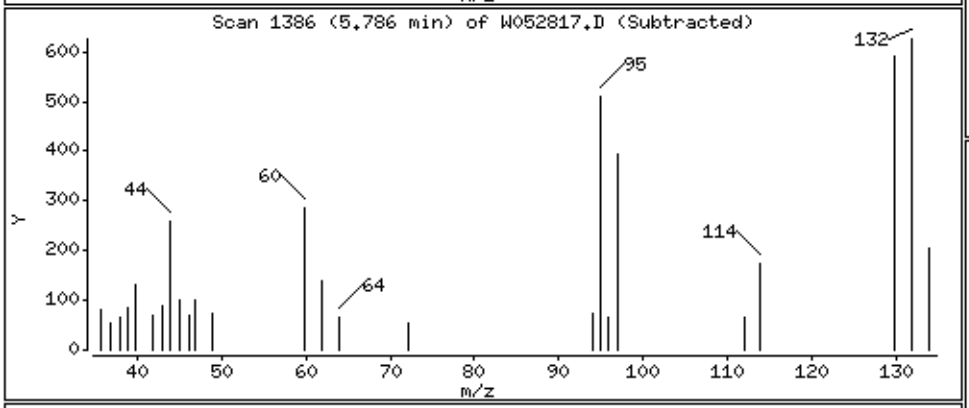
Purge Volume: 5.0 Operator: FT

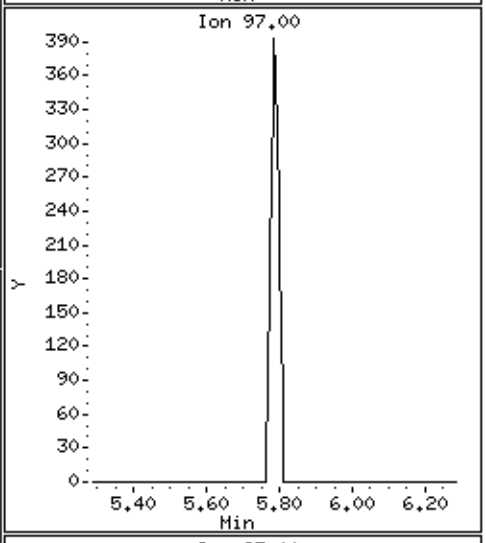
Column phase: DB624 Column diameter: 0.18

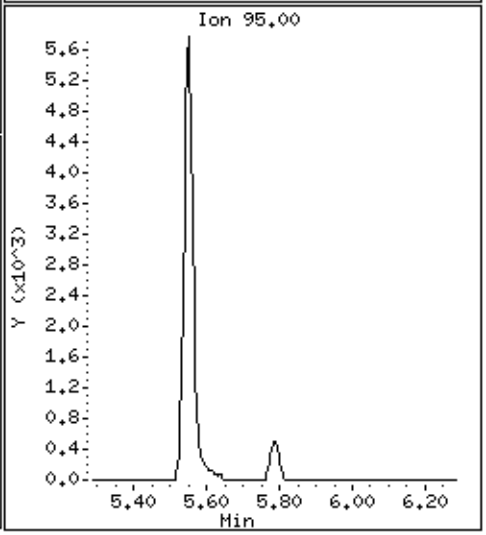
38 Trichloroethene Concentration: 0.46 ug/l











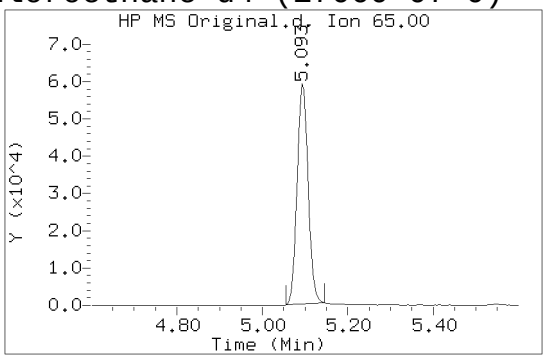
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\W052817.D
Inj Date : 30-MAY-2024 08:56
InstruID : VOA9.i
LabSampID : HS24051300-09

1,2-Dichloroethane-d4 (17060-07-0)

Reason Code:

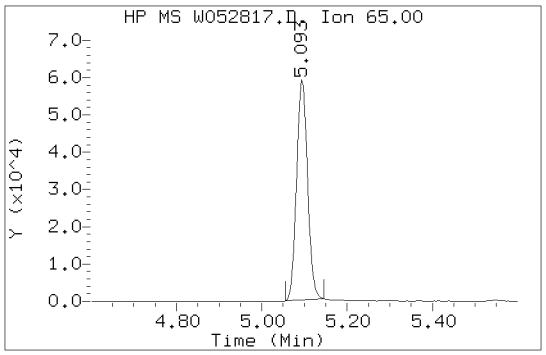
BEFORE

MASS
65
AREA
106809
HEIGHT
59079
22-Jun-2024
11:24
RUCHA
PATEL



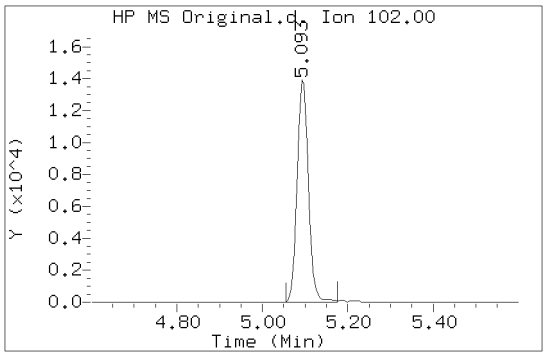
AFTER

MASS
65
AREA
106809
HEIGHT
59079
22-Jun-2024
11:37
RUCHA
PATEL



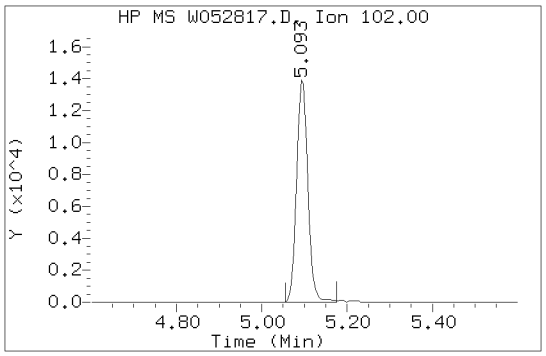
BEFORE

MASS
102
AREA
25916
HEIGHT
13922
22-Jun-2024
11:24
RUCHA
PATEL



AFTER

MASS
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AREA
25916
HEIGHT
13922
22-Jun-2024
11:37
RUCHA
PATEL

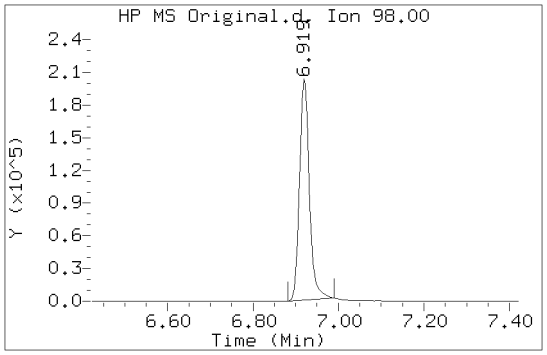


Toluene-d8 (2037-26-5)

Reason Code:

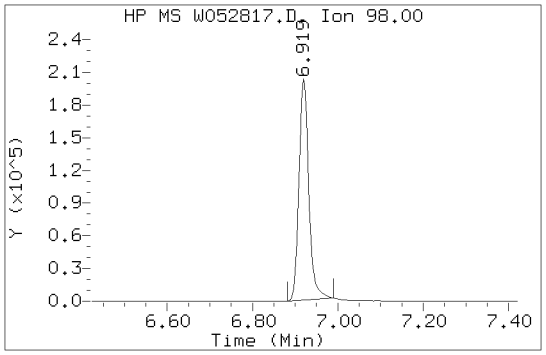
BEFORE

MASS
98
AREA
330056
HEIGHT
203058
22-Jun-2024
11:24
RUCHA
PATEL



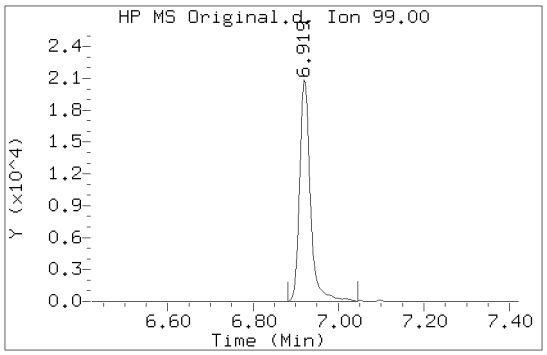
AFTER

MASS
98
AREA
330056
HEIGHT
203058
22-Jun-2024
11:37
RUCHA
PATEL



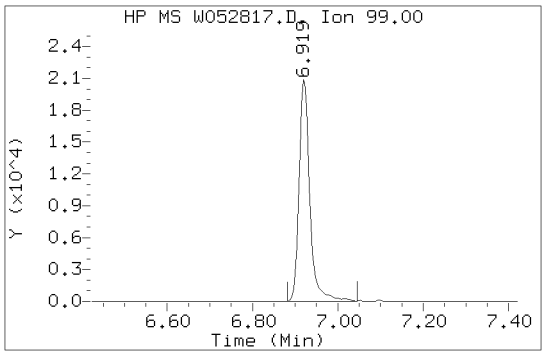
BEFORE

MASS
99
AREA
37253
HEIGHT
20872
22-Jun-2024
11:24
RUCHA
PATEL



AFTER

MASS
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AREA
37253
HEIGHT
20872
22-Jun-2024
11:37
RUCHA
PATEL



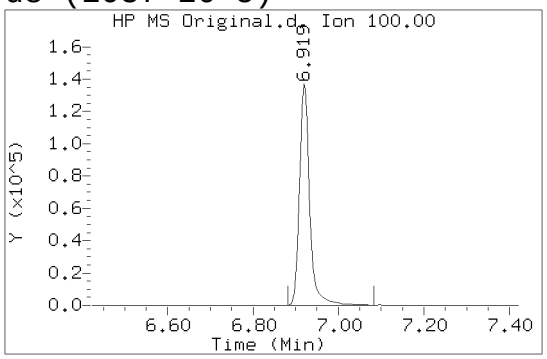
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\W052817.D
Inj Date : 30-MAY-2024 08:56
InstruID : VOA9.i
LabSampID : HS24051300-09

Toluene-d8 (2037-26-5)

Reason Code:

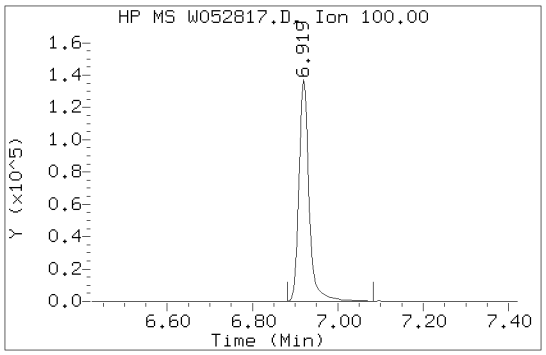
BEFORE

MASS
100
AREA
230162
HEIGHT
137095
22-Jun-2024
11:24
RUCHA
PATEL



AFTER

MASS
100
AREA
230162
HEIGHT
137095
22-Jun-2024
11:37
RUCHA
PATEL



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240529.b\W052818.D Page 1
Report Date: 22-Jun-2024 11:25

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\W052818.D
Lab Smp Id: CCV Client Smp ID: CCV
Inj Date : 30-MAY-2024 09:18
Operator : FT Inst ID: VOA9.i
Smp Info : CCV;CCV;2;;CCV-END
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240529.b\8260C.m
Meth Date : 22-Jun-2024 11:25 VOA9.i Quant Type: ISTD
Cal Date : 29-MAY-2024 13:53 Cal File: U052911.D
Als bottle: 59 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	4.815	4.815	(1.000)	250615	50.0000	
2	Dichlorodifluoromethane	85	1.172	1.172	(0.243)	37793	50.0000	40.45
3	Chloromethane	50	1.303	1.303	(0.271)	147622	50.0000	44.08
4	Propionitrile	54	4.343	4.343	(0.902)	125230	500.000	456.62
5	Vinyl Chloride	62	1.382	1.382	(0.287)	71368	50.0000	37.71
6	Bromomethane	94	1.610	1.610	(0.334)	28104	50.0000	33.32
7	Chloroethane	64	1.696	1.696	(0.352)	52893	50.0000	40.11
8	Trichlorofluoromethane	101	1.899	1.899	(0.394)	91715	50.0000	40.80
9	Acrolein	56	2.270	2.270	(0.471)	6733	100.000	76.49
10	Acetone	43	2.416	2.416	(0.502)	54568	100.000	71.76
11	1,1-Dichloroethene	96	2.334	2.334	(0.485)	57837	50.0000	35.00
12	Isobutyl Alcohol	43	5.288	5.288	(1.098)	232847	1000.00	875.72
13	Acetonitrile	39	2.675	2.675	(0.556)	90926	500.000	447.26
14	Allyl Chloride	41	2.679	2.679	(0.556)	221242	50.0000	45.11
15	Iodomethane	142	2.469	2.469	(0.513)	22773	100.000	107.08
16	Acrylonitrile	53	3.072	3.072	(0.638)	63170	100.000	90.88
17	Methylene Chloride	84	2.799	2.799	(0.581)	76764	50.0000	39.52
18	Methyl tert-butyl ether	73	3.087	3.087	(0.641)	205159	50.0000	44.26
19	Carbon Disulfide	76	2.521	2.521	(0.524)	319615	100.000	68.96
20	trans-1,2-Dichloroethene	96	3.061	3.061	(0.636)	63094	50.0000	33.77

21 Vinyl Acetate	43	4.343	4.343 (0.902)	84715	100.000	76.70
22 1,1-Dichloroethane	63	3.515	3.515 (0.730)	127292	50.0000	35.46

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240529.b\W052818.D Page 2
Report Date: 22-Jun-2024 11:25

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	23 Chloroprene	53	3.612	3.612	(0.750)	104617	50.0000	39.75
	24 2-Butanone	43	4.268	4.268	(0.886)	76545	100.000	68.34
	25 Methacrylonitrile	41	4.497	4.497	(0.934)	50316	50.0000	44.12(a)
	26 2,2-Dichloropropane	77	4.186	4.186	(0.869)	57159	50.0000	24.26
	27 cis-1,2-Dichloroethene	96	4.197	4.197	(0.872)	80390	50.0000	34.84
	28 Chloroform	83	4.575	4.575	(0.950)	130872	50.0000	36.52
	29 Bromochloromethane	128	4.470	4.470	(0.928)	39153	50.0000	36.94
$	30 Dibromofluoromethane	113	4.748	4.748	(0.986)	91656	50.0000	57.38
	31 1,1,1-Trichloroethane	97	4.744	4.744	(0.985)	99385	50.0000	39.60
	32 1,1-Dichloropropene	75	4.924	4.924	(0.887)	95261	50.0000	36.55
	33 1,2-Dichloroethane	62	5.175	5.175	(0.932)	106765	50.0000	40.00
	34 Carbon Tetrachloride	117	4.913	4.913	(0.885)	79412	50.0000	38.90
$	35 1,2-Dichloroethane-d4	65	5.100	5.100	(1.059)	110548	50.0000	57.33
*	36 1,4-Difluorobenzene	114	5.554	5.554	(1.000)	359769	50.0000	
	37 Benzene	78	5.138	5.138	(0.925)	297927	50.0000	35.15
	38 Trichloroethene	130	5.786	5.786	(1.042)	75786	50.0000	36.33
	39 Bromodichloromethane	83	6.277	6.277	(1.130)	87912	50.0000	38.57
	40 Methyl Methacrylate	41	5.828	5.828	(1.210)	36029	50.0000	41.39
	41 2-Chloroethylvinyl ether	63	6.577	6.577	(1.184)	55248	100.000	75.30
	42 1,2-Dichloropropane	63	6.007	6.007	(1.082)	82526	50.0000	36.92
	43 2-Nitropropane	43	6.510	6.510	(1.352)	19003	50.0000	44.30
	44 Dibromomethane	93	6.120	6.120	(1.102)	47384	50.0000	36.50
	45 4-Methyl-2-Pentanone	43	6.855	6.855	(0.837)	165374	100.000	74.87
	46 cis-1,3-Dichloropropene	75	6.690	6.690	(1.204)	104094	50.0000	35.09
*	47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	330228	50.0000	
$	48 Toluene-d8	98	6.922	6.922	(0.846)	359770	50.0000	57.10
	49 Ethyl Methacrylate	69	7.289	7.289	(1.312)	110802	50.0000	39.81
	50 Toluene	91	6.978	6.978	(0.853)	307052	50.0000	34.25
	51 trans-1,3-Dichloropropene	75	7.196	7.196	(1.296)	84092	50.0000	34.74
	52 2-Hexanone	43	7.589	7.589	(0.927)	105303	100.000	73.73
	53 1,1,2-Trichloroethane	83	7.353	7.353	(0.898)	61413	50.0000	39.02
	54 1,3-Dichloropropane	76	7.496	7.496	(0.916)	132248	50.0000	36.21
	55 Dibromochloromethane	129	7.691	7.691	(0.940)	68671	50.0000	36.01
	56 Tetrachloroethene	164	7.454	7.454	(0.911)	58347	50.0000	37.26
	57 1,2-Dibromoethane	107	7.784	7.784	(0.951)	71362	50.0000	36.20
	58 1-Chlorohexane	55	8.193	8.193	(1.475)	56156	50.0000	37.76
	59 Chlorobenzene	112	8.208	8.208	(1.003)	197132	50.0000	34.63
	60 1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	68411	50.0000	37.66
	61 Ethylbenzene	106	8.305	8.305	(1.015)	98660	50.0000	37.71
	62 m,p-Xylenes	106	8.407	8.407	(1.027)	253279	100.000	74.70
	63 o-Xylene	106	8.744	8.744	(1.068)	125312	50.0000	36.92
	64 Styrene	104	8.759	8.759	(1.070)	206542	50.0000	37.78
	66 Bromoform	173	8.916	8.916	(1.089)	41408	50.0000	33.85
	67 Isopropylbenzene	105	9.059	9.059	(1.107)	300765	50.0000	38.15
	68 1,1,2,2-Tetrachloroethane	83	9.325	9.325	(0.917)	102322	50.0000	33.66
$	69 4-Bromofluorobenzene	95	9.190	9.190	(1.123)	134566	50.0000	58.61
*	70 1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	182855	50.0000	
	71 1,2,3-Trichloropropane	75	9.359	9.359	(0.920)	97250	50.0000	34.12
	72 trans-1,4-Dichloro-2-butene	53	9.374	9.374	(1.145)	17779	50.0000	31.51
	73 n-Propylbenzene	91	9.411	9.411	(0.926)	351225	50.0000	35.64
	74 Bromobenzene	156	9.314	9.314	(0.916)	86478	50.0000	34.39
	75 1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	246133	50.0000	36.87

76	2-Chlorotoluene	91	9.479	9.479 (0.932)	218901	50.0000	38.25
77	4-Chlorotoluene	91	9.572	9.572 (0.941)	253237	50.0000	35.79

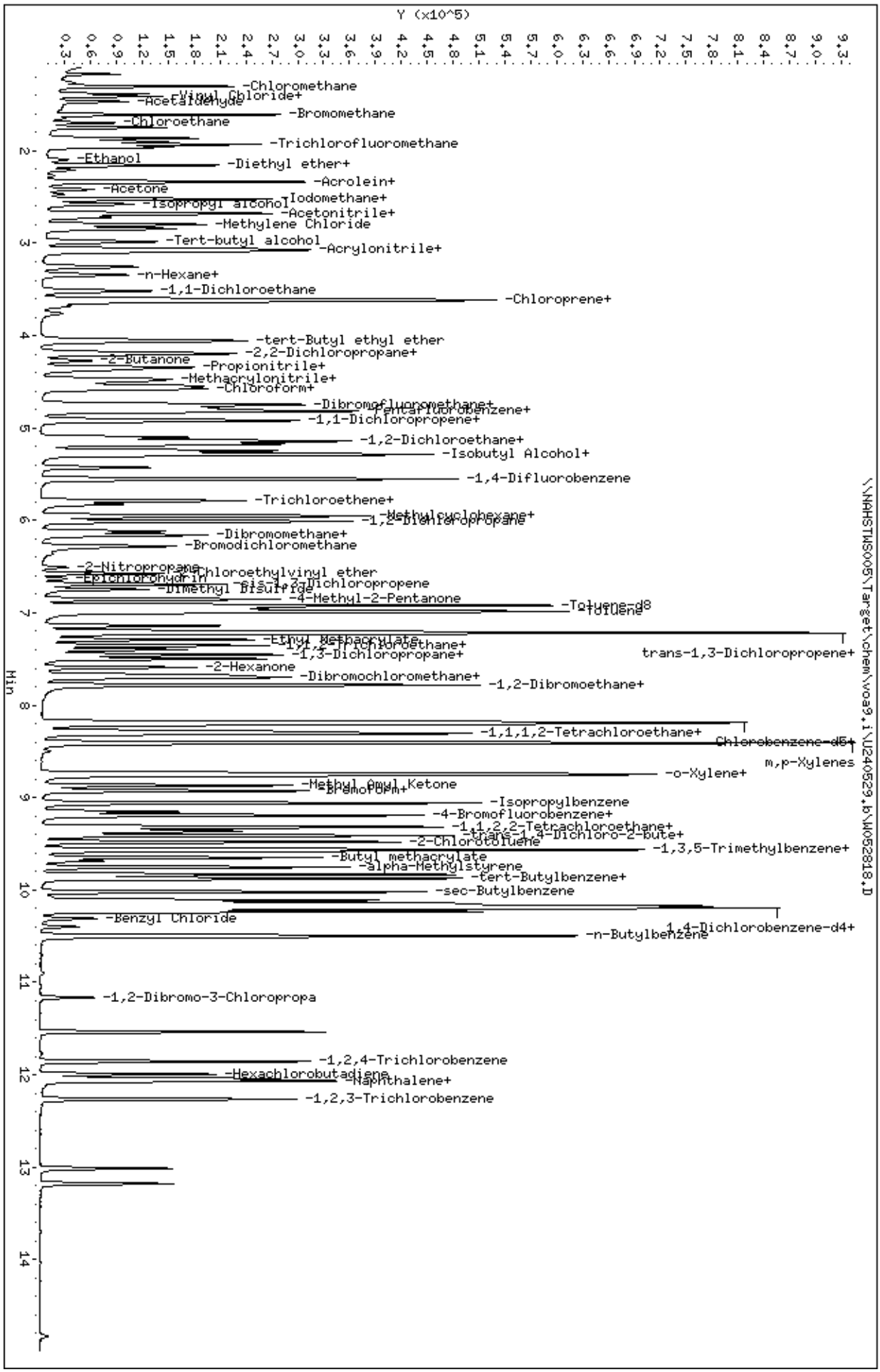
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)	
78	tert-Butylbenzene	119	9.835	9.835	(0.967)	213676	50.0000	38.62	
79	1,2,4-Trimethylbenzene	105	9.876	9.876	(0.971)	243912	50.0000	35.11	
81	sec-Butylbenzene	105	10.019	10.019	(0.985)	282341	50.0000	37.60	
82	p-Isopropyltoluene	119	10.146	10.146	(0.998)	243825	50.0000	37.26	
83	1,3-Dichlorobenzene	146	10.187	10.187	(1.002)	158682	50.0000	37.37	
84	1,4-Dichlorobenzene	146	10.187	10.187	(1.002)	158682	50.0000	33.74	
86	Benzyl Chloride	91	10.311	10.311	(1.260)	42165	50.0000	16.98	
87	n-Butylbenzene	91	10.491	10.491	(1.032)	201797	50.0000	34.62	
88	1,2-Dichlorobenzene	146	10.187	10.187	(1.002)	158682	50.0000	36.07	
89	1,2-Dibromo-3-Chloropropane	155	11.166	11.166	(1.098)	12218	50.0000	32.50	
90	1,2,4-Trichlorobenzene	180	11.855	11.855	(1.166)	91889	50.0000	33.14	
91	Hexachlorobutadiene	225	11.994	11.994	(1.180)	37462	50.0000	33.68	
92	Naphthalene	128	12.065	12.065	(1.187)	236097	50.0000	35.31	
93	1,2,3-Trichlorobenzene	180	12.268	12.268	(1.206)	89488	50.0000	34.65	
146	Methyl acetate	43	2.720	2.720	(0.565)	79021	50.0000	39.89	
138	Freon TF	101	2.337	2.337	(0.485)	51327	50.0000	37.24	
141	Cyclohexane	56	4.782	4.782	(0.993)	91878	50.0000	38.57	
142	Tetrahydrofuran	42	4.545	4.545	(0.944)	33024	100.000	92.15	
147	Methylcyclohexane	55	5.947	5.947	(1.071)	192939	50.0000	43.60	
135	1,4-Dioxane	88	6.169	6.169	(1.281)	20370	1000.00	795.25	
132	n-Butanol	56	5.824	5.824	(1.209)	49165	1000.00	728.23	
136	n-Hexane	57	3.342	3.342	(0.694)	47819	50.0000	29.27	
139	Diethyl ether	59	2.150	2.150	(0.447)	60818	50.0000	46.29	
148	Tert-butyl alcohol	59	2.982	2.982	(0.619)	146979	1000.00	853.53	
149	Isopropyl alcohol	45	2.577	2.577	(0.535)	116548	1000.00	863.48	
152	Amyl alcohol	42	7.398	7.398	(0.904)	58003	1000.00	803.59	
156	Diisopropyl ether	45	3.627	3.627	(0.753)	269009	50.0000	42.03	
162	Butyl acrylate	55	8.729	8.729	(1.066)	141696	50.0000	40.39	
187	n-Amyl acetate	43	8.928	8.928	(1.091)	126698	50.0000	35.33	
164	Dicyclopentadiene	66	10.198	10.198	(1.003)	393118	50.0000	41.91	
166	1,2,3-Trimethylbenzene	105	10.232	10.232	(1.006)	262672	50.0000	41.33	
167	Ethanol	45	2.098	2.098	(0.436)	23327	1000.00	919.12	
172	tert-Butyl formate	59	5.246	5.246	(1.090)	146979	100.000	74.24	
173	3,3-Dimethyl-1-butanol	57	7.781	7.781	(0.951)	173227	1000.00	753.65	
174	tert-Amyl methyl ether	73	5.288	5.288	(1.098)	244831	50.0000	41.75	
175	tert-Butyl ethyl ether	59	4.054	4.054	(0.842)	229099	50.0000	39.96	
176	tert-Amyl alcohol	59	5.246	5.246	(1.090)	146979	1000.00	733.91	
151	4-Methyl-2-pentanol	45	7.215	7.215	(1.299)	507020	1000.00	864.05	
140	1,3-Butadiene	54	1.408	1.408	(0.292)	34282	50.0000	36.97	
182	Epichlorohydrin	57	6.630	6.630	(1.194)	20074	200.000	161.73	
M 94	1,2-Dichloroethylene (total)	96				143484	100.000		(a)
145	alpha-Methylstyrene	118	9.752	9.752	(0.959)	98211	50.0000	35.53	
130	Ethyl Acetate	43	4.343	4.343	(0.902)	84715	50.0000	36.70	
131	Methyl Acrylate	55	4.373	4.373	(0.908)	101036	50.0000	43.83	
189	n-Butyl acetate	43	7.702	7.702	(0.941)	121014	50.0000	34.90	
134	Cyclohexanone	55	9.153	9.153	(0.900)	62302	1000.00	605.57	
185	Isoprene	39	2.158	2.158	(0.448)	16121	50.0000	40.71	
188	Isopropyl acetate	43	5.288	5.288	(0.952)	232902	50.0000	39.01	
150	Allyl alcohol	57	3.342	3.342	(0.694)	47819	1000.00	585.55	
194	Acetaldehyde	44	1.468	1.468	(0.305)	101020	200.000	241.60	
195	Methyl Amyl Ketone	43	8.864	8.864	(1.083)	160362	50.0000	39.86	
200	Dimethyl Disulfide	94	6.746	6.746	(0.824)	47237	50.0000	31.27	

133 Ethyl Acrylate	55	5.947	5.947 (1.235)	192939	50.0000	43.58
163 Butyl methacrylate	41	9.647	9.647 (0.949)	84227	50.0000	39.80

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
159 Propylene oxide	43	2.206	2.206	(0.458)	12594	100.000	87.81
203 2-Ethylhexyl Acrylate	55	12.039	12.039	(1.184)	91455	50.0000	40.84

QC Flag Legend

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



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240529.b\W052818.D
Date : 30-MAY-2024 09:18
Client ID: CCV
Sample Info: CCV;CCV;2;;CCV-END
Purge Volume: 5.0
Column phase: DB624

\\NAHSTWS005\Target\chem\voa9.i\U240529.b\W052818.D

Instrument: VOA9.i
Operator: FT
Column diameter: 0.18

Data File : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\W052818.D
Inj Date : 30-MAY-2024 09:18
InstruID : VOA9.i
LabSampID : CCV

NO MANUAL INTEGRATIONS

HS24051300-GCSEMI-RSK-175

ALS WO# HS24051300

right solutions.
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Form 1

Organic Analysis Data Sheet

Dissolved Gasses by Dissolved Gases by RSK-175

Workorder

HS24051300

Client

Bhate Environmental Associates, Inc.

Project

LHAAP Site 50

06/22/2024

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.	Workorder	
Project	LHAAP Site 50	**HS24051300**	

Dissolved Gasses by Dissolved Gases by RSK-175

50WW14_052124	Collected	Received	Matrix	Basis
HS24051300-05	05/21/24 07:15	05/22/24 10:15	Groundwater	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
Ethane	mg/L	0.000820	J	0.00014	0.00100	0.00100	1	05/31/24 10:11	FID-4_468189	007.D
Ethene	mg/L	0.00100	U	0.00023	0.00100	0.00100	1	05/31/24 10:11	FID-4_468189	007.D
Methane	mg/L	0.00386		0.00010	0.000500	0.000500	1	05/31/24 10:11	FID-4_468189	007.D

Form 1 - Organic Analysis Data Sheet

Client	Bhate Environmental Associates, Inc.	Workorder	
Project	LHAAP Site 50	**HS24051300**	

Dissolved Gasses by Dissolved Gases by RSK-175

50WW13_052124	Collected	Received	Matrix	Basis
HS24051300-06	05/21/24 08:00	05/22/24 10:15	Groundwater	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
Ethane	mg/L	0.00100	U	0.00014	0.00100	0.00100	1	05/31/24 10:37	FID-4_468189	008.D
Ethene	mg/L	0.00100	U	0.00023	0.00100	0.00100	1	05/31/24 10:37	FID-4_468189	008.D
Methane	mg/L	0.00132		0.00010	0.000500	0.000500	1	05/31/24 10:37	FID-4_468189	008.D

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP Site 50

Workorder **HS24051300**

Dissolved Gasses by Dissolved Gases by RSK-175

50WW11_052124	Collected	Received	Matrix	Basis
HS24051300-07	05/21/24 08:50	05/22/24 10:15	Groundwater	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
Ethane	mg/L	0.00100	U	0.00014	0.00100	0.00100	1	05/31/24 10:45	FID-4_468189	009.D
Ethene	mg/L	0.00100	U	0.00023	0.00100	0.00100	1	05/31/24 10:45	FID-4_468189	009.D
Methane	mg/L	0.720		0.0107	0.0500	0.0500	100	05/31/24 11:23	FID-4_468189	013.D

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Form 3B

Laboratory Control Sample Recovery

Dissolved Gasses by Dissolved Gases by RSK-175

Workorder

HS24051300

Client

Bhate Environmental Associates, Inc.

Project

LHAAP Site 50

06/22/2024

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 50

Workorder HS24051300

Dissolved Gasses by Dissolved Gases by RSK-175

SAMPLENUM LCS-240531

FID-4_468189			LCS-240531			LCSD-240531					
Spike Matrix Aqueous	Result Units mg/L		Run Date 05/31/24 Run Time 09:30			Run Date 05/31/24 Run Time 09:38					
Analyte	%Recovery Limits	Spike Added	LCS Result	%R	Q	LCSD Result	%R	Q	RPD Limit	RPD	Q
Ethane	75-125	0.01804	0.0153	85		0.0148	82		30	3.64	
Ethene	75-125	0.0168	0.0146	87		0.0139	83		30	4.68	
Methane	75-125	0.009647	0.00908	94		0.00869	90		30	4.4	

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Form 4

Method Blank Summary

Dissolved Gasses by Dissolved Gases by RSK-175

Workorder

HS24051300

Client

Bhate Environmental Associates, Inc.

Project

LHAAP Site 50

06/22/2024

ALS Environmental–Houston Laboratory
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Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Form 4 - Method Blank Summary

Client Bhate Environmental Associates, Inc.

Project LHAAP Site 50

Workorder HS24051300

Dissolved Gasses by Dissolved Gases by RSK-175

METHOD BLANK	Matrix	Analysis Date	Analysis Batch	Inst ID
MBLK-240531	Aqueous	05/31/24 09:17	R468189	FID4

Client Sample ID	Lab Sample ID	Type	Analysis Date	Analysis Batch	Inst ID	FileID
LCS-240531	LCS-240531	LCS	05/31/24 09:30	R468189	FID4	003.D
LCSD-240531	LCSD-240531	LCSD	05/31/24 09:38	R468189	FID4	004.D
50WW14_052124	HS24051300-05	SAMP	05/31/24 10:11	R468189	FID4	007.D
50WW13_052124	HS24051300-06	SAMP	05/31/24 10:37	R468189	FID4	008.D
50WW11_052124	HS24051300-07	SAMP	05/31/24 10:45	R468189	FID4	009.D
50WW11_052124	HS24051300-07	SAMP	05/31/24 11:23	R468189	FID4	013.D

ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 24-JAN-2017 09:06
End Cal Date : 01-MAR-2024 15:48
Quant Method : ESTD
Origin : Disabled
Target Version : 4.14
Integrator : Falcon
Method file : \\NAHSTWS005\Target\chem\FID-4.i\240301.b\RSKNI2.m
Last Edit : 02-Mar-2024 07:11 Samy.Mata
Curve Type : Average

Calibration File Names:
Level 1: \\NAHSTWS005\Target\chem\FID-4.i\240301ICAL.b\009.D
Level 2: \\NAHSTWS005\Target\chem\FID-4.i\240301ICAL.b\003.D
Level 3: \\NAHSTWS005\Target\chem\FID-4.i\240301ICAL.b\004.D
Level 4: \\NAHSTWS005\Target\chem\FID-4.i\240301ICAL.b\005.D
Level 5: \\NAHSTWS005\Target\chem\FID-4.i\240301ICAL.b\006.D
Level 6: \\NAHSTWS005\Target\chem\FID-4.i\240301ICAL.b\007.D
Level 7: \\NAHSTWS005\Target\chem\FID-4.i\240301ICAL.b\008.D

Compound	10.000 Level 1	25.000 Level 2	50.000 Level 3	100.000 Level 4	250.000 Level 5	500.000 Level 6	1000.000 Level 7	RRF	% RSD
1 Methane	1275	1233	1158	1053	1089	1052	1015	1125	8.811
2 Ethene	596	725	776	798	843	513	811	723	16.997
3 Ethane	712	946	1023	1035	1159	1061	1092	1004	14.380
4 Propane	642	946	932	951	1024	999	987	926	13.969
5 N-Butane	563	912	953	953	1015	990	988	911	17.229
6 Pentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
7 Hexane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

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Form 6I

Initial Calibration Verification (ICV)

Dissolved Gasses by Dissolved Gases by RSK-175

Workorder

HS24051300

Client

Bhate Environmental Associates, Inc.

Project

LHAAP Site 50

06/22/2024

ALS Environmental–Houston Laboratory
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www.alsglobal.com

Form 6I Initial Calibration Verification (ICV)

Client Bhate Environmental Associates, Inc.
Project LHAAP Site 50

Workorder HS24051300

RunID 010.D

Dissolved Gasses by Dissolved Gases by RSK-175

Sample Matrix LIQUID
Lab Smp Id RSK-ICV
Data Type GC DATA
File ID 010.D

Fraction GASES
Client Smp ID RSK-ICV
SampleType METHSPIKE
Inj Date 01-MAR-2024 1700

Compound	Conc Added	Conc Recovered	% Recovered	Limits	Q
Methane	9.62	8.09	84.1	80-120	
Ethene	16.8	16.5	98.0	80-120	
Ethane	18.0	17.0	94.4	80-120	
Propane	26.5	24.6	92.9	80-120	
N-Butane	34.9	32.9	94.4	80-120	
Pentane	43.3	0.000		80-120	*
Hexane	51.7	0.000		80-120	*

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Form 7

Continuing Calibration Verification (CCV)

Dissolved Gasses by Dissolved Gases by RSK-175

Workorder

HS24051300

Client

Bhate Environmental Associates, Inc.

Project

LHAAP Site 50

06/22/2024

ALS Environmental–Houston Laboratory
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Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP Site 50

Workorder HS24051300

RunID 001.D

Dissolved Gasses by Dissolved Gases by RSK-175

Instrument ID FID-4.i
Lab File ID 001.D
Analysis Type WATER
Lab Sample ID RSK-CCV

Injection Date 31-MAY-2024 0909
ICAL Date(s) 24-JAN-2017, 01-MAR-2024
ICAL Times 09:06, 15:48
Quant Type ESTD

Compound	RRF / Conc	RF250	CCV RRF250	Min RRF	%D / %DRIFT	Max %D / %DRIFT	CURVE TYPE	Q
Methane	1125	1002	1002	0.010	10.9	20.0	Averaged	
Ethene	723	619	619	0.010	14.4	20.0	Averaged	
Ethane	1004	822	822	0.010	18.1	20.0	Averaged	

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP Site 50

Workorder HS24051300

RunID 011.D

Dissolved Gasses by Dissolved Gases by RSK-175

Instrument ID FID-4.i
Lab File ID 011.D
Analysis Type WATER
Lab Sample ID RSK-CCV

Injection Date 31-MAY-2024 1103
ICAL Date(s) 24-JAN-2017, 01-MAR-2024
ICAL Times 09:06, 15:48
Quant Type ESTD

Compound	RRF / Conc	RF250	CCV RRF250	Min RRF	%D / %DRIFT	Max %D / %DRIFT	CURVE TYPE	Q
Methane	1125	931	931	0.010	17.3	20.0	Averaged	
Ethene	723	583	583	0.010	19.4	20.0	Averaged	
Ethane	1004	826	826	0.010	17.8	20.0	Averaged	

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP Site 50

Workorder HS24051300

RunID 017.D

Dissolved Gasses by Dissolved Gases by RSK-175

Instrument ID FID-4.i
Lab File ID 017.D
Analysis Type WATER
Lab Sample ID RSK-CCV

Injection Date 31-MAY-2024 1204
ICAL Date(s) 24-JAN-2017, 01-MAR-2024
ICAL Times 09:06, 15:48
Quant Type ESTD

Compound	RRF / Conc	RF250	CCV RRF250	Min RRF	%D / %DRIFT	Max %D / %DRIFT	CURVE TYPE	Q
Methane	1125	1085	1085	0.010	3.54	20.0	Averaged	
Ethene	723	614	614	0.010	15.1	20.0	Averaged	
Ethane	1004	846	846	0.010	15.7	20.0	Averaged	

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Analysis Run Log

Dissolved Gasses by Dissolved Gases by RSK-175

Workorder

HS24051300

Client

Bhate Environmental Associates, Inc.

Project

LHAAP Site 50

06/22/2024

ALS Environmental–Houston Laboratory
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Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Form 13 - Analysis Run Log

Client Bhate Environmental Associates, Inc.

Project LHAAP Site 50

Workorder **HS24051300**

Dissolved Gasses by Dissolved Gases by RSK-175

RUNID FID-4-461015

Run ID FID-4_461015 **Start Date** 03/01/24 **EndDate** 03/01/24

Inj. Time	Client Sample ID	Type	Lab Sample ID	File ID	Analysis Date	DF
09:20	RSK-ICAL L2	ICAL2	RSK-ICAL L2	003.D	03/01/24	1
09:42	RSK-ICAL L3	ICAL3	RSK-ICAL L3	004.D	03/01/24	1
10:01	RSK-ICAL L4	ICAL4	RSK-ICAL L4	005.D	03/01/24	1
10:22	RSK-ICAL L5	ICAL5	RSK-ICAL L5	006.D	03/01/24	1
10:37	RSK-ICAL L6	ICAL6	RSK-ICAL L6	007.D	03/01/24	1
11:04	RSK-ICAL L7	ICAL7	RSK-ICAL L7	008.D	03/01/24	1
15:48	RSK-ICAL L1	ICAL1	RSK-ICAL L1	009.D	03/01/24	1
17:00	RSK-ICV	ICV	RSK-ICV	010.D	03/01/24	1

Form 13 - Analysis Run Log

Client Bhate Environmental Associates, Inc.

Project LHAAP Site 50

Workorder **HS24051300**

Dissolved Gasses by Dissolved Gases by RSK-175

RUNID FID-4-468189

Run ID FID-4_468189 **Start Date** 05/31/24 **EndDate** 05/31/24

Inj. Time	Client Sample ID	Type	Lab Sample ID	File ID	Analysis Date	DF
09:09	RSK-CCV	CCV	RSK-CCV	001.D	05/31/24	1
09:17	MBLK-240531	MBLK	MBLK-240531	002.D	05/31/24	1
09:30	LCS-240531	LCS	LCS-240531	003.D	05/31/24	1
09:38	LCSD-240531	LCSD	LCSD-240531	004.D	05/31/24	1
10:01	HS24051490-06	SAMP	ZZZZZZZZZZ	006.D	05/31/24	1
10:11	HS24051300-05	SAMP	50WW14_052124	007.D	05/31/24	1
10:37	HS24051300-06	SAMP	50WW13_052124	008.D	05/31/24	1
10:45	HS24051300-07	SAMP	50WW11_052124	009.D	05/31/24	1
10:54	HS24051292-08	SAMP	ZZZZZZZZZZ	010.D	05/31/24	1
11:03	RSK-CCV	CCV	RSK-CCV	011.D	05/31/24	1
11:23	HS24051300-07	SAMP	50WW11_052124	013.D	05/31/24	100
11:32	HS24051490-07	SAMP	ZZZZZZZZZZ	014.D	05/31/24	1
11:40	HS24051490-05	SAMP	ZZZZZZZZZZ	015.D	05/31/24	1
11:55	HS24051490-05	SAMP	ZZZZZZZZZZ	016.D	05/31/24	200
12:04	RSK-CCV	CCV	RSK-CCV	017.D	05/31/24	1

right solutions.
right partner.

RawData

<textMethods>

Workorder

HS24051300

Client

Bhate Environmental Associates, Inc.

Project

LHAAP Site 50

06/22/2024

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\240301.b\003.D Page 1
Report Date: 11-Mar-2024 18:09

ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\NAHSTWS005\Target\chem\FID-4.i\240301.b\003.D
Lab Smp Id: RSK-ICAL L2 Client Smp ID: RSK-ICAL L2
Inj Date : 01-MAR-2024 09:20
Operator : PL Inst ID: FID-4.i
Smp Info : RSK-ICAL L2;RSK-ICAL L2;2;4
Misc Info : ;1;0;1
Comment :
Method : \\NAHSTWS005\Target\chem\FID-4.i\240301.b\RSKNI2.m
Meth Date : 11-Mar-2024 18:06 FID-4.i Quant Type: ESTD
Cal Date : 01-MAR-2024 15:48 Cal File: 009.D
Als bottle: 3 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: stdNI2.sub
Target Version: 4.14

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	0.446	0.440	0.006	1190	0.96500	1.057(M)
2 Ethene	0.646	0.643	0.003	1221	1.68500	1.688
3 Ethane	0.710	0.710	0.000	1707	1.80400	1.700(M)
4 Propane	2.030	2.016	0.014	2502	2.64600	2.702
5 N-Butane	4.910	4.886	0.024	3190	3.49600	3.503

QC Flag Legend

M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\FID-4.i\240301.b\003.D

Date : 01-MAR-2024 09:20

Client ID: RSK-ICAL L2

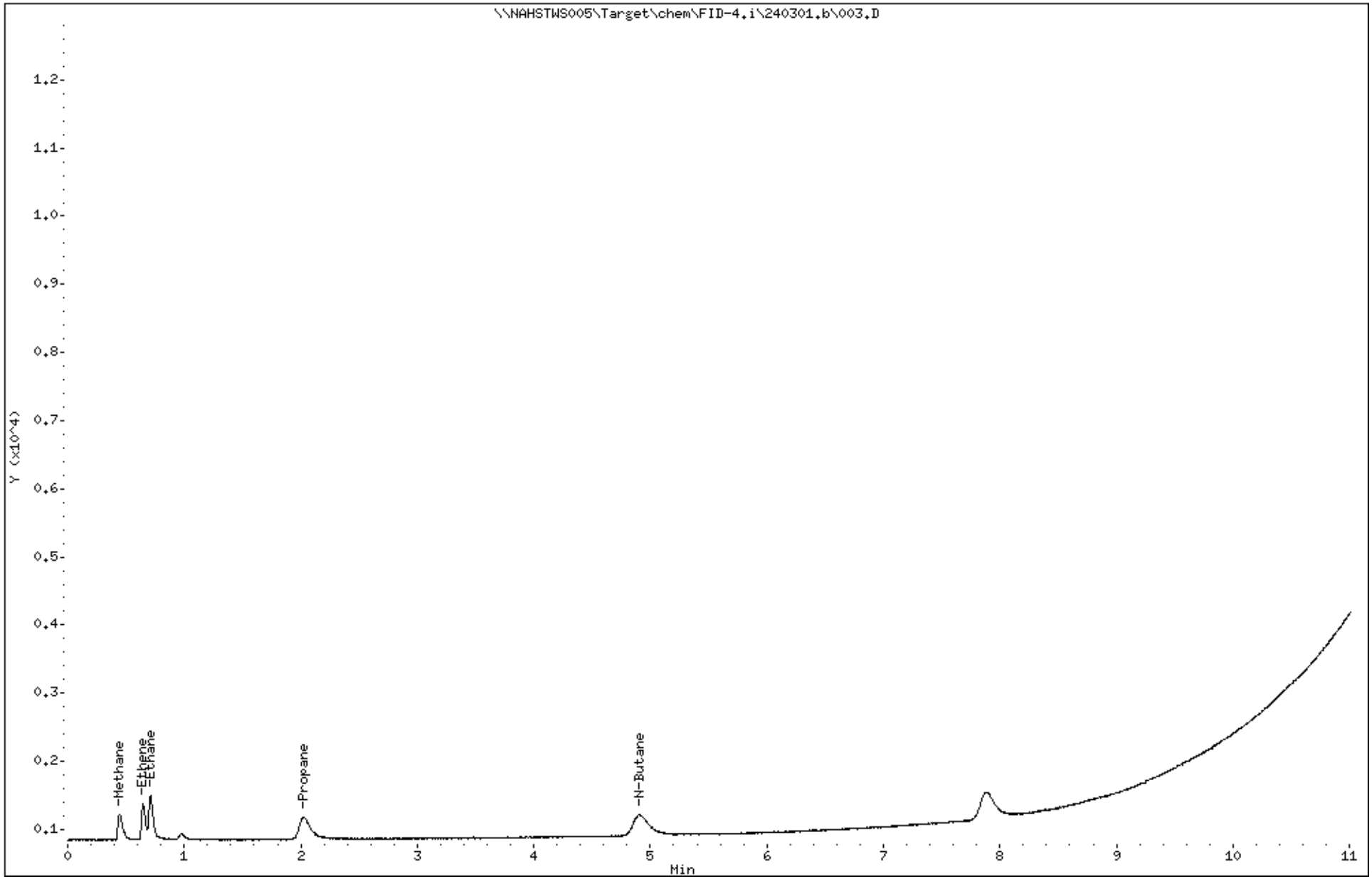
Instrument: FID-4.i

Sample Info: RSK-ICAL L2;RSK-ICAL L2;2;4

Operator: PL

Column phase: Rtx-PLOT

Column diameter: 0.53



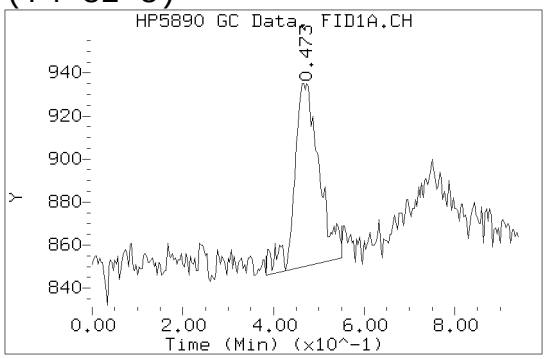
Data File : \\NAHSTWS005\Target\chem\FID-4.i\240301.b\003.D
Inj Date : 01-MAR-2024 09:20
InstruID : FID-4.i
LabSampID : RSK-ICAL L2

Methane (74-82-8)

Reason Code: MIP

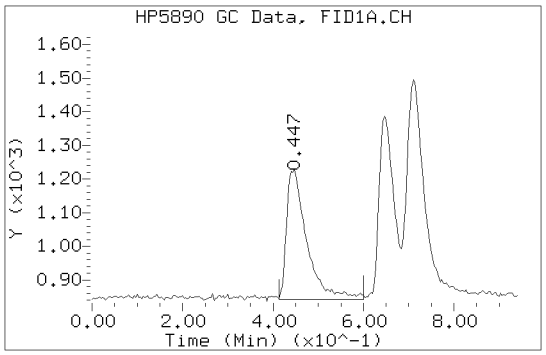
BEFORE

MASS
100
AREA
0
HEIGHT
0
01-Mar-2024
09:14
ALSHS
Server



AFTER

MASS
100
AREA
1190
HEIGHT
385
11-Mar-2024
18:09
ALSHS
Ser

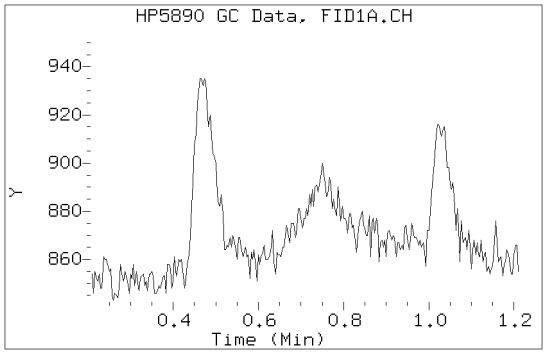


Ethane (74-84-0)

Reason Code: MIP

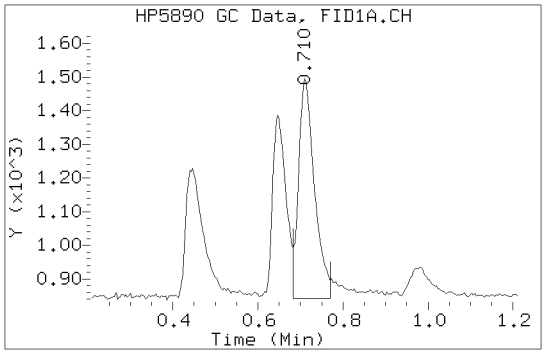
BEFORE

MASS
100
AREA
0
HEIGHT
0
01-Mar-2024
09:14
ALSHS
Server



AFTER

MASS
44
AREA
1707
HEIGHT
652
11-Mar-2024
18:09
ALSHS
Ser



Data File: \\NAHSTWS005\Target\chem\FID-4.i\240301.b\004.D Page 1
Report Date: 11-Mar-2024 18:12

ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\NAHSTWS005\Target\chem\FID-4.i\240301.b\004.D
Lab Smp Id: RSK-ICAL L3 Client Smp ID: RSK-ICAL L3
Inj Date : 01-MAR-2024 09:42
Operator : PL Inst ID: FID-4.i
Smp Info : RSK-ICAL L3;RSK-ICAL L3;2;4
Misc Info : ;1;0;1
Comment :
Method : \\NAHSTWS005\Target\chem\FID-4.i\240301.b\RSKNI2.m
Meth Date : 11-Mar-2024 18:06 FID-4.i Quant Type: ESTD
Cal Date : 01-MAR-2024 09:20 Cal File: 003.D
Als bottle: 4 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: stdNI2.sub
Target Version: 4.14

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

					AMOUNTS	
					CAL-AMT	ON-COL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(ug/L)	(ug/L)
1 Methane	0.443	0.440	0.003	2234	1.92900	1.985(M)
2 Ethene	0.650	0.643	0.007	2615	3.37000	3.615(M)
3 Ethane	0.713	0.710	0.003	3691	3.60900	3.676(M)
4 Propane	2.023	2.016	0.007	4935	5.29300	5.329
5 N-Butane	4.903	4.886	0.017	6664	6.99100	7.317

QC Flag Legend

M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\FID-4.i\240301.b\004.D

Date : 01-MAR-2024 09:42

Client ID: RSK-ICAL L3

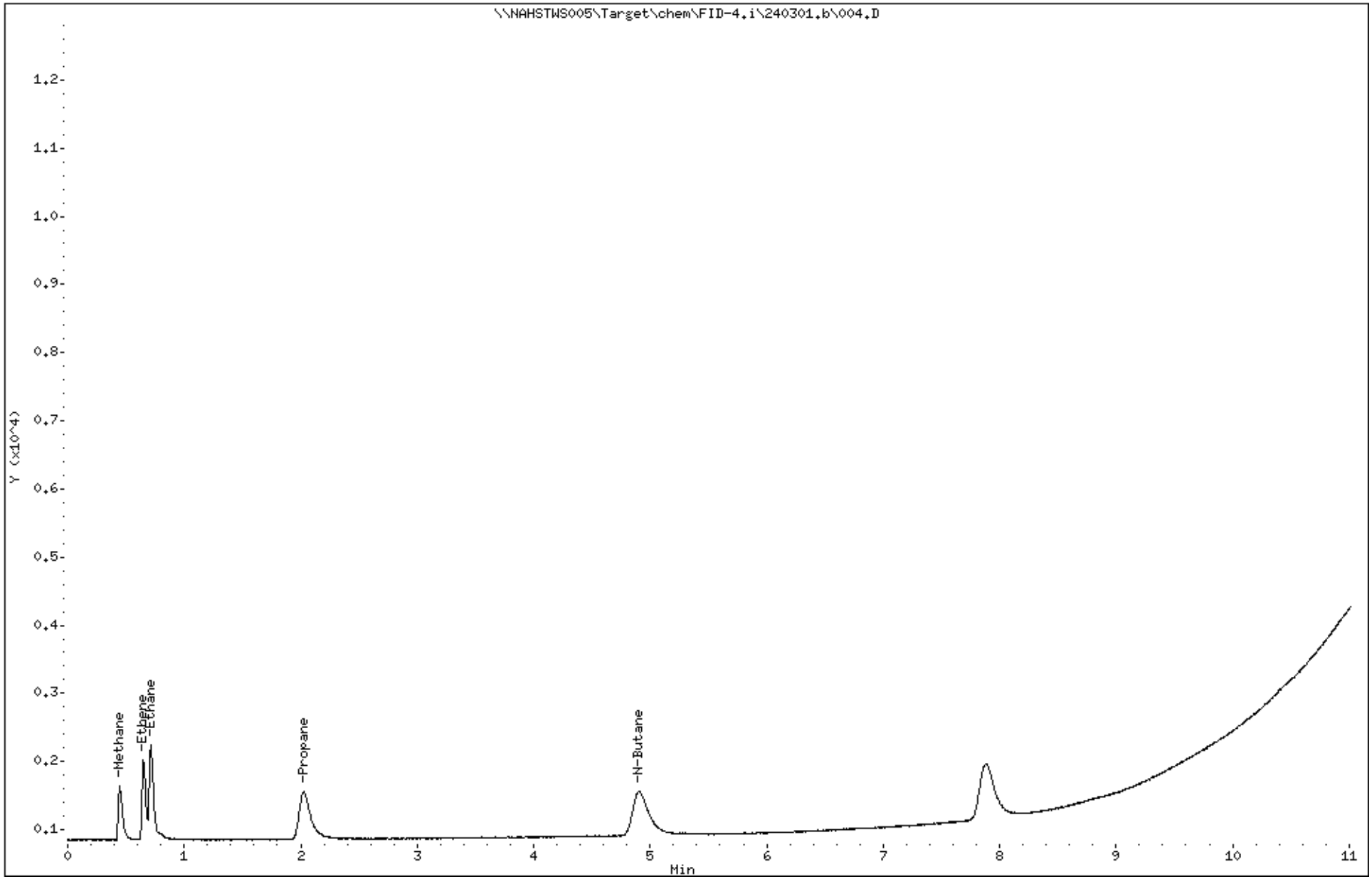
Instrument: FID-4.i

Sample Info: RSK-ICAL L3;RSK-ICAL L3;2;4

Operator: PL

Column phase: Rtx-PLOT

Column diameter: 0.53



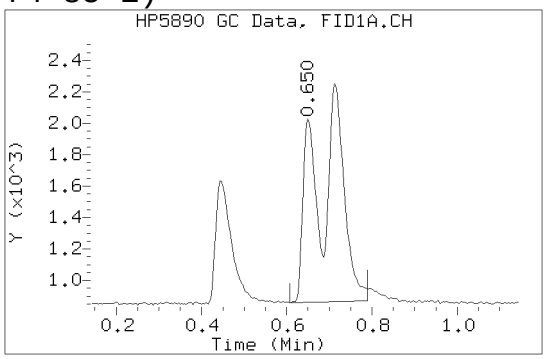
Data File : \\NAHSTWS005\Target\chem\FID-4.i\240301.b\004.D
Inj Date : 01-MAR-2024 09:42
InstruID : FID-4.i
LabSampID : RSK-ICAL L3

Ethene (74-85-1)

Reason Code: MIA

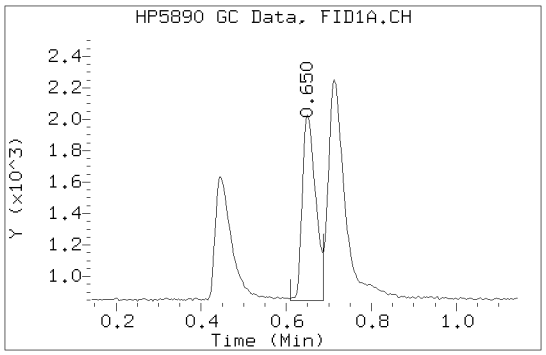
BEFORE

MASS
100
AREA
6051
HEIGHT
1172
11-Mar-2024
18:03
linh
pham



AFTER

MASS
100
AREA
2615
HEIGHT
1185
11-Mar-2024
18:12
linh
pham

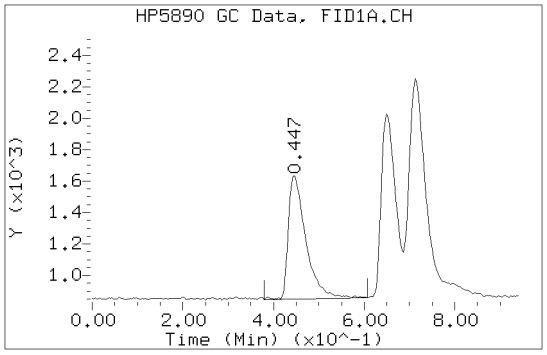


Methane (74-82-8)

Reason Code: MBA

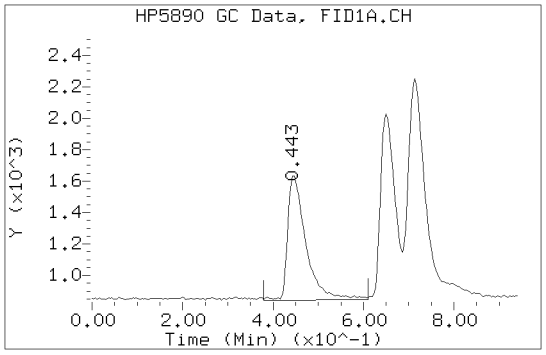
BEFORE

MASS
100
AREA
2128
HEIGHT
786
11-Mar-2024
18:03
linh
pham



AFTER

MASS
100
AREA
2234
HEIGHT
791
11-Mar-2024
18:12
linh
pham

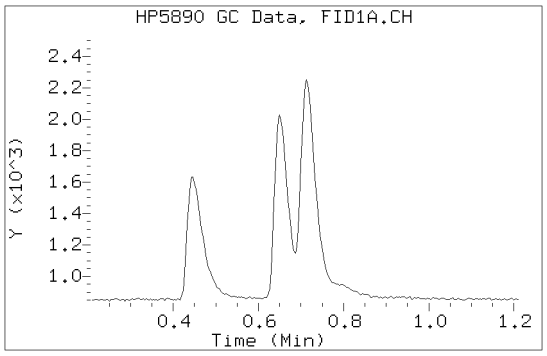


Ethane (74-84-0)

Reason Code: MUP

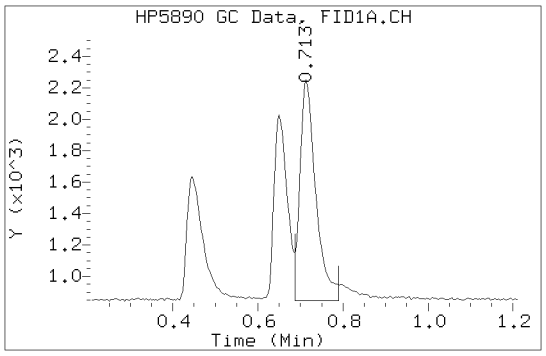
BEFORE

MASS
44
AREA
0
HEIGHT
0
11-Mar-2024
18:03
linh
pham



AFTER

MASS
44
AREA
3691
HEIGHT
1406
11-Mar-2024
18:12
linh
pham



Data File: \\NAHSTWS005\Target\chem\FID-4.i\240301.b\005.D Page 1
Report Date: 11-Mar-2024 18:11

ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\NAHSTWS005\Target\chem\FID-4.i\240301.b\005.D
Lab Smp Id: RSK-ICAL L4 Client Smp ID: RSK-ICAL L4
Inj Date : 01-MAR-2024 10:01
Operator : PL Inst ID: FID-4.i
Smp Info : RSK-ICAL L4;RSK-ICAL L4;2;4
Misc Info : ;1;0;1
Comment :
Method : \\NAHSTWS005\Target\chem\FID-4.i\240301.b\RSKNI2.m
Meth Date : 11-Mar-2024 18:06 FID-4.i Quant Type: ESTD
Cal Date : 01-MAR-2024 09:42 Cal File: 004.D
Als bottle: 5 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: stdNI2.sub
Target Version: 4.14

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	0.443	0.440	0.003	4065	3.85900	3.613
2 Ethene	0.650	0.643	0.007	5379	6.74000	7.437(M)
3 Ethane	0.713	0.710	0.003	7470	7.21700	7.440(M)
4 Propane	2.023	2.016	0.007	10070	10.5850	10.875
5 N-Butane	4.906	4.886	0.020	13319	13.9820	14.625

QC Flag Legend

M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\FID-4.i\240301.b\005.D

Date : 01-MAR-2024 10:01

Client ID: RSK-ICAL L4

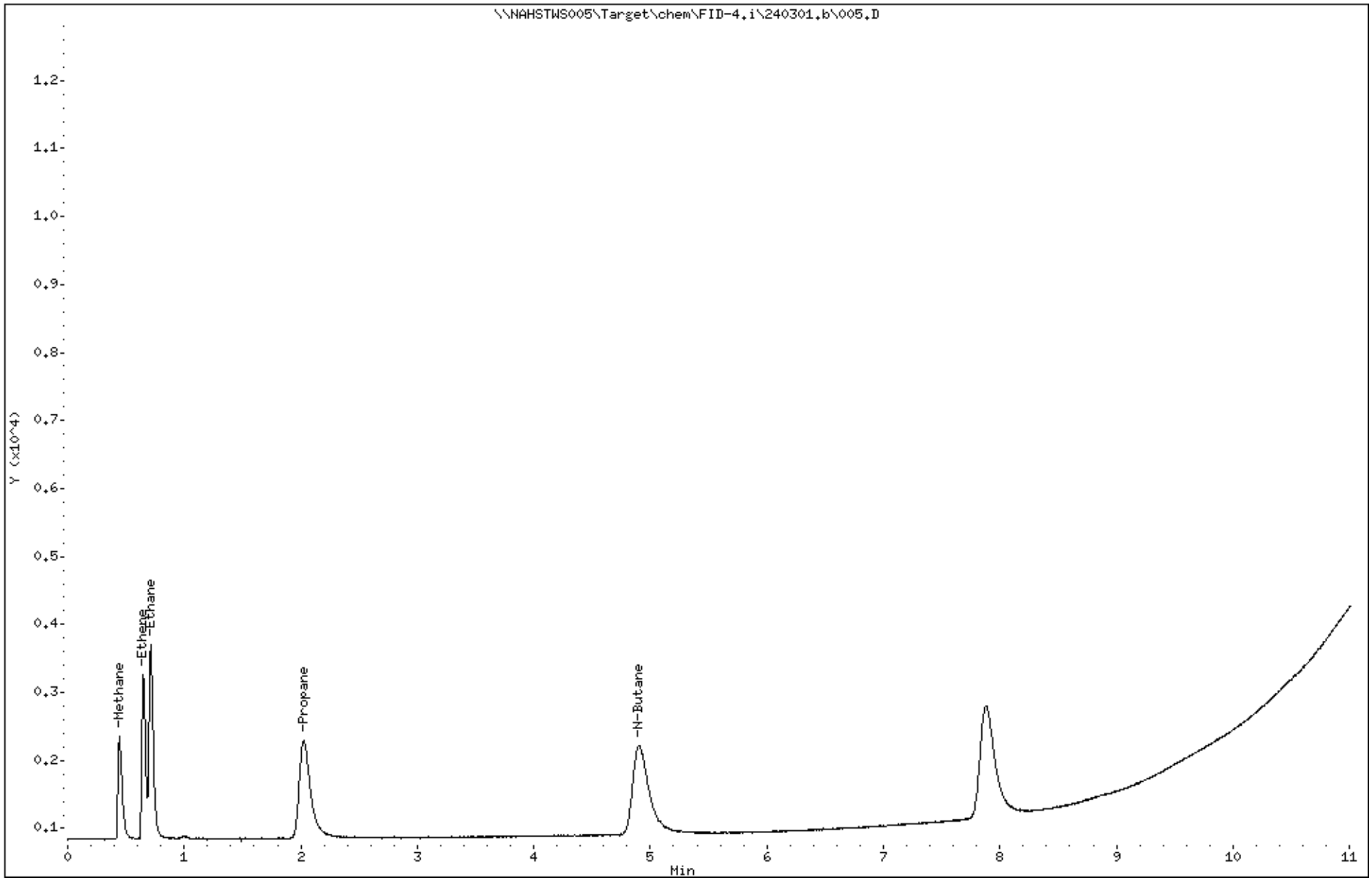
Instrument: FID-4.i

Sample Info: RSK-ICAL L4;RSK-ICAL L4;2;4

Operator: PL

Column phase: Rtx-PLOT

Column diameter: 0.53



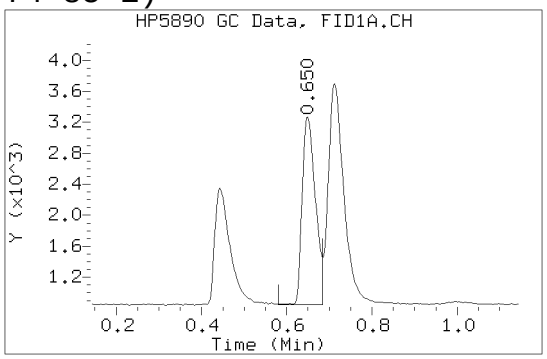
Data File : \\NAHSTWS005\Target\chem\FID-4.i\240301.b\005.D
Inj Date : 01-MAR-2024 10:01
InstruID : FID-4.i
LabSampID : RSK-ICAL L4

Ethene (74-85-1)

Reason Code: MIA

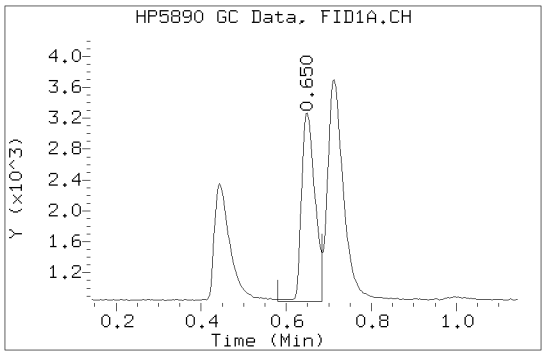
BEFORE

MASS
100
AREA
5231
HEIGHT
2425
11-Mar-2024
18:03
linh
pham



AFTER

MASS
100
AREA
5379
HEIGHT
2438
11-Mar-2024
18:11
linh
pham

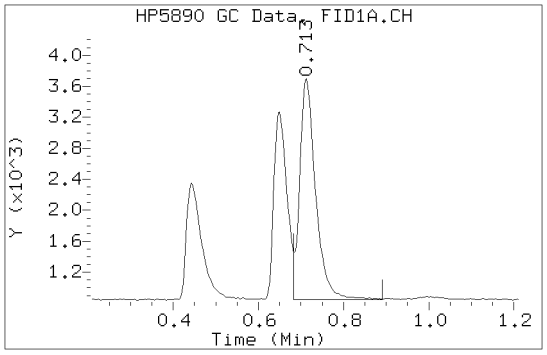


Ethane (74-84-0)

Reason Code: MIA

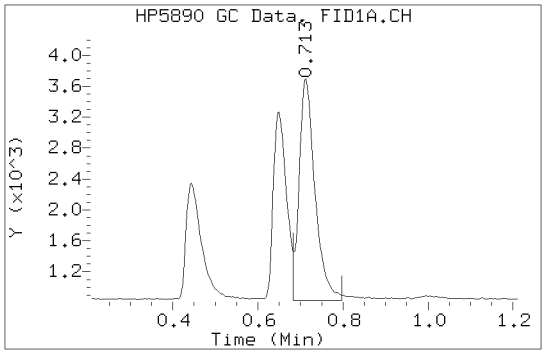
BEFORE

MASS
44
AREA
7464
HEIGHT
2855
11-Mar-2024
18:03
linh
pham



AFTER

MASS
44
AREA
7470
HEIGHT
2867
11-Mar-2024
18:11
linh
pham



Data File: \\NAHSTWS005\Target\chem\FID-4.i\240301.b\006.D Page 1
Report Date: 11-Mar-2024 18:06

ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\NAHSTWS005\Target\chem\FID-4.i\240301.b\006.D
Lab Smp Id: RSK-ICAL L5 Client Smp ID: RSK-ICAL L5
Inj Date : 01-MAR-2024 10:22
Operator : PL Inst ID: FID-4.i
Smp Info : RSK-ICAL L5;RSK-ICAL L5;2;4
Misc Info : ;1;0;1
Comment :
Method : \\NAHSTWS005\Target\chem\FID-4.i\240301.b\RSKNI2.m
Meth Date : 11-Mar-2024 18:06 FID-4.i Quant Type: ESTD
Cal Date : 01-MAR-2024 10:01 Cal File: 005.D
Als bottle: 6 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: stdNI2.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	0.436	0.436	0.000	10502	9.64700	9.334
2 Ethene	0.640	0.640	0.000	14206	16.8500	19.642
3 Ethane	0.703	0.703	0.000	20920	18.0430	20.836
4 Propane	2.020	2.020	0.000	27110	26.4630	29.277
5 N-Butane	4.900	4.900	0.000	35491	34.9550	38.973

Data File: \\NAHSTWS005\Target\chem\FID-4.i\240301.b\006.D

Date : 01-MAR-2024 10:22

Client ID: RSK-ICAL L5

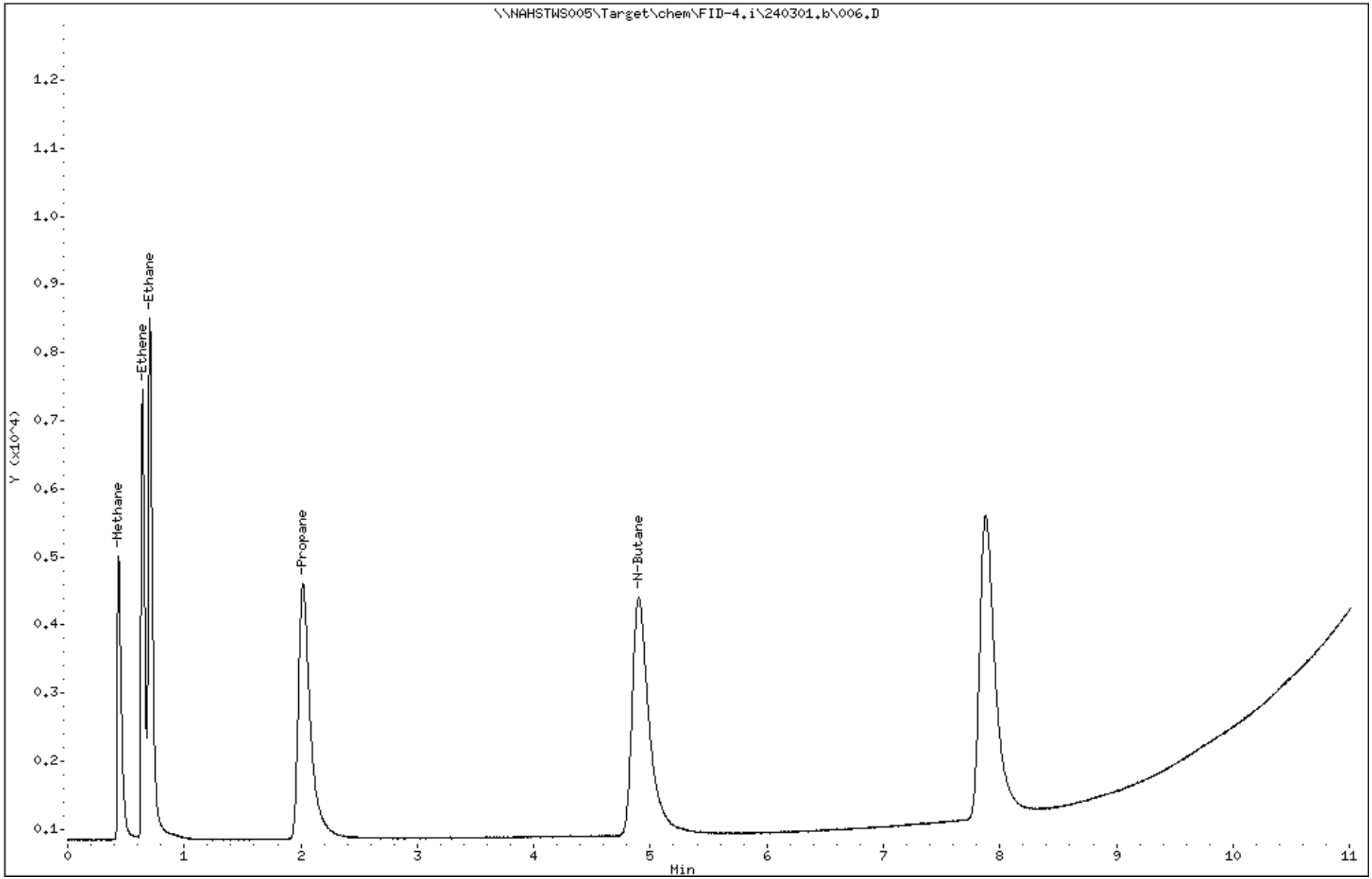
Instrument: FID-4.i

Sample Info: RSK-ICAL L5;RSK-ICAL L5;2;4

Operator: PL

Column phase: Rtx-PLOT

Column diameter: 0.53



Data File : \\NAHSTWS005\Target\chem\FID-4.i\240301.b\006.D
Inj Date : 01-MAR-2024 10:22
InstruID : FID-4.i
LabSampID : RSK-ICAL L5

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\FID-4.i\240301.b\007.D Page 1
Report Date: 11-Mar-2024 18:14

ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\NAHSTWS005\Target\chem\FID-4.i\240301.b\007.D
Lab Smp Id: RSK-ICAL L6 Client Smp ID: RSK-ICAL L6
Inj Date : 01-MAR-2024 10:37
Operator : PL Inst ID: FID-4.i
Smp Info : RSK-ICAL L6;RSK-ICAL L6;2;4
Misc Info : ;1;0;1
Comment :
Method : \\NAHSTWS005\Target\chem\FID-4.i\240301.b\RSKNI2.m
Meth Date : 11-Mar-2024 18:06 FID-4.i Quant Type: ESTD
Cal Date : 01-MAR-2024 10:22 Cal File: 006.D
Als bottle: 7 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: stdNI2.sub
Target Version: 4.14

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

					AMOUNTS	
					CAL-AMT	ON-COL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(ug/L)	(ug/L)
1 Methane	0.426	0.440	-0.014	20304	19.2940	18.046
2 Ethene	0.633	0.643	-0.010	27621	53.8200	38.191(M)
3 Ethane	0.696	0.710	-0.014	38290	36.0860	38.137(M)
4 Propane	2.013	2.016	-0.003	52875	52.9260	57.102
5 N-Butane	4.893	4.886	0.007	69190	69.9110	75.979

QC Flag Legend

M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\FID-4.i\240301.b\007.D

Date : 01-MAR-2024 10:37

Client ID: RSK-ICAL L6

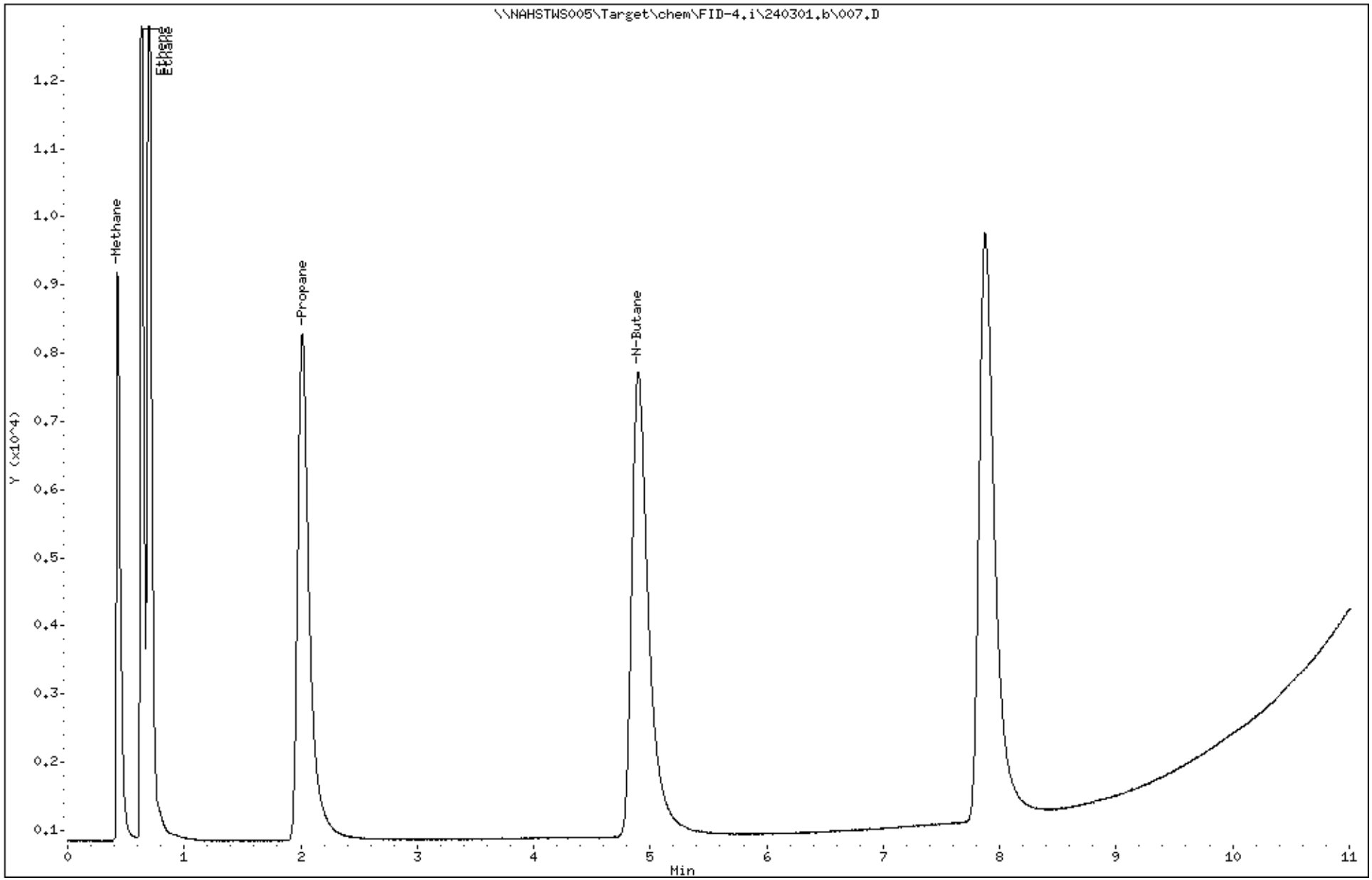
Instrument: FID-4.i

Sample Info: RSK-ICAL L6;RSK-ICAL L6;2;4

Operator: PL

Column phase: Rtx-PLOT

Column diameter: 0.53



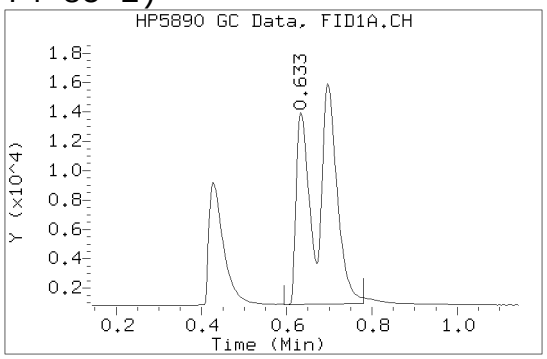
Data File : \\NAHSTWS005\Target\chem\FID-4.i\240301.b\007.D
Inj Date : 01-MAR-2024 10:37
InstruID : FID-4.i
LabSampID : RSK-ICAL L6

Ethene (74-85-1)

Reason Code: MUP

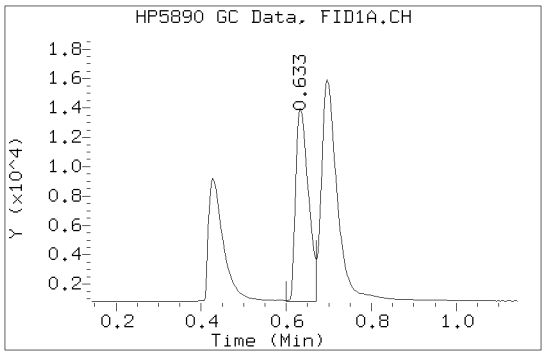
BEFORE

MASS
100
AREA
64499
HEIGHT
13052
11-Mar-2024
18:03
linh
pham



AFTER

MASS
100
AREA
27621
HEIGHT
13106
11-Mar-2024
18:14
linh
pham

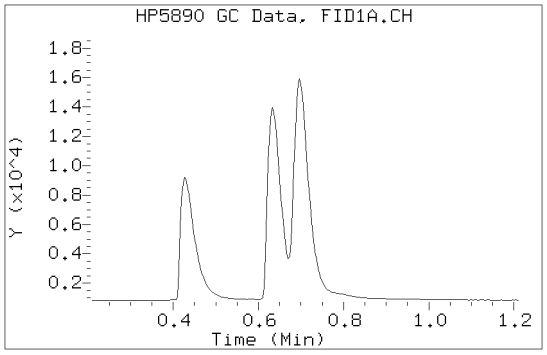


Ethane (74-84-0)

Reason Code: MUP

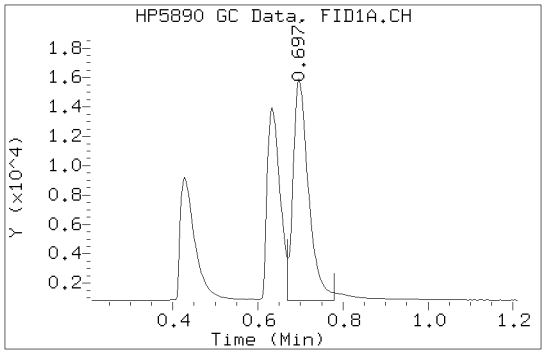
BEFORE

MASS
44
AREA
0
HEIGHT
0
11-Mar-2024
18:03
linh
pham



AFTER

MASS
44
AREA
38290
HEIGHT
15074
11-Mar-2024
18:14
linh
pham



Data File: \\NAHSTWS005\Target\chem\FID-4.i\240301.b\008.D Page 1
Report Date: 11-Mar-2024 18:12

ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\NAHSTWS005\Target\chem\FID-4.i\240301.b\008.D
Lab Smp Id: RSK-ICAL L7 Client Smp ID: RSK-ICAL L7
Inj Date : 01-MAR-2024 11:04
Operator : PL Inst ID: FID-4.i
Smp Info : RSK-ICAL L7;RSK-ICAL L7;2;4
Misc Info : ;1;0;1
Comment :
Method : \\NAHSTWS005\Target\chem\FID-4.i\240301.b\RSKNI2.m
Meth Date : 11-Mar-2024 18:06 FID-4.i Quant Type: ESTD
Cal Date : 01-MAR-2024 10:37 Cal File: 007.D
Als bottle: 8 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: stdNI2.sub
Target Version: 4.14

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

					AMOUNTS	
					CAL-AMT	ON-COL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(ug/L)	(ug/L)
1 Methane	0.436	0.440	-0.004	39175	38.5880	34.820
2 Ethene	0.640	0.643	-0.003	54673	67.4000	75.596(A)
3 Ethane	0.703	0.710	-0.007	78784	72.1720	78.469(AM)
4 Propane	2.016	2.016	0.000	104463	105.852	112.815(A)
5 N-Butane	4.896	4.886	0.010	138179	139.821	151.737(A)

QC Flag Legend

A - Target compound detected but, quantitated amount
exceeded maximum amount.
M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\FID-4.i\240301.b\008.D

Date : 01-MAR-2024 11:04

Client ID: RSK-ICAL L7

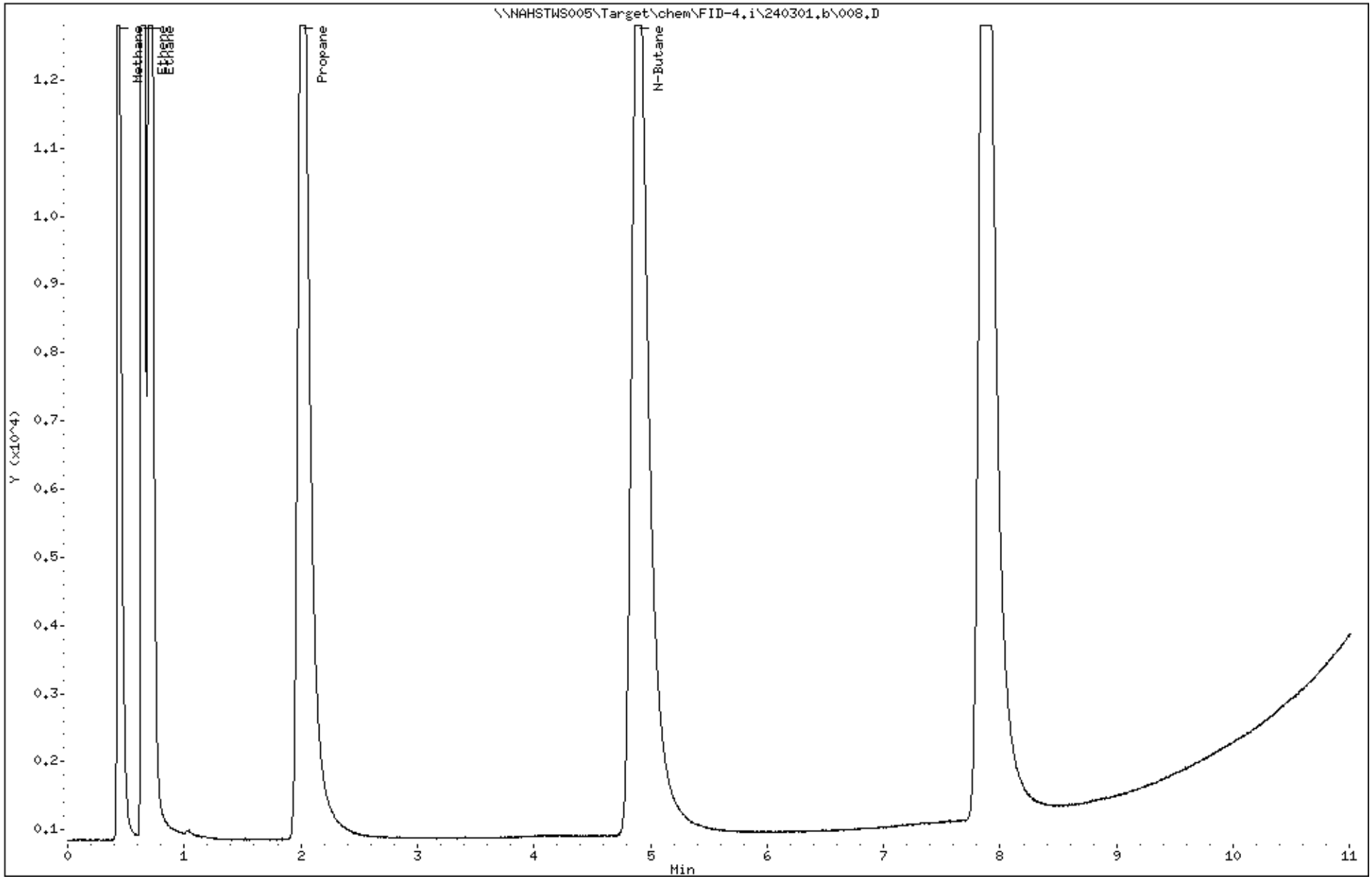
Instrument: FID-4.i

Sample Info: RSK-ICAL L7;RSK-ICAL L7;2;4

Operator: PL

Column phase: Rtx-PLOT

Column diameter: 0.53



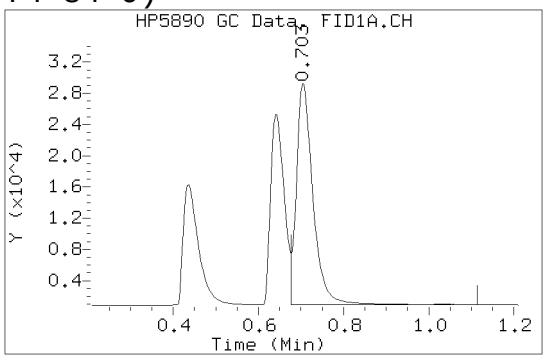
Data File : \\NAHSTWS005\Target\chem\FID-4.i\240301.b\008.D
Inj Date : 01-MAR-2024 11:04
InstruID : FID-4.i
LabSampID : RSK-ICAL L7

Ethane (74-84-0)

Reason Code: MBA

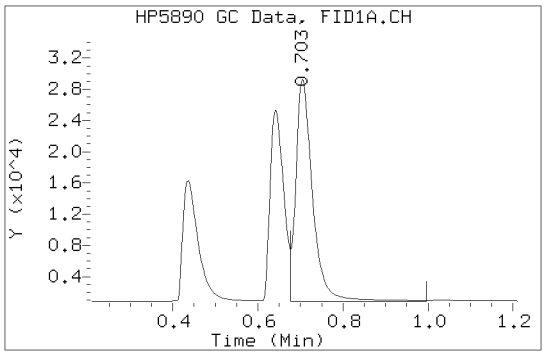
BEFORE

MASS
100
AREA
104463
HEIGHT
14645
01-Mar-2024
11:18
ALSHS
Server



AFTER

MASS
44
AREA
78784
HEIGHT
28380
11-Mar-2024
18:12
ALSHS
Ser



Data File: \\NAHSTWS005\Target\chem\FID-4.i\240301.b\009.D Page 1
Report Date: 11-Mar-2024 18:13

ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\NAHSTWS005\Target\chem\FID-4.i\240301.b\009.D
Lab Smp Id: RSK-ICAL L1 Client Smp ID: RSK-ICAL L1
Inj Date : 01-MAR-2024 15:48
Operator : PL Inst ID: FID-4.i
Smp Info : RSK-ICAL L1;RSK-ICAL L1;2;4
Misc Info : ;1;0;1
Comment :
Method : \\NAHSTWS005\Target\chem\FID-4.i\240301.b\RSKNI2.m
Meth Date : 11-Mar-2024 18:06 FID-4.i Quant Type: ESTD
Cal Date : 01-MAR-2024 11:04 Cal File: 008.D
Als bottle: 9 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: stdNI2.sub
Target Version: 4.14

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

					AMOUNTS	
					CAL-AMT	ON-COL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(ug/L)	(ug/L)
1 Methane	0.440	0.440	0.000	492	0.38600	0.437(aM)
2 Ethene	0.643	0.643	0.000	402	0.67400	0.555(aM)
3 Ethane	0.710	0.710	0.000	514	0.72200	0.511(a)
4 Propane	2.016	2.016	0.000	680	1.05900	0.734
5 N-Butane	4.886	4.886	0.000	787	1.39800	0.864(M)

QC Flag Legend

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

Data File: \\NAHSTWS005\Target\chem\FID-4.i\240301.b\009.D

Date : 01-MAR-2024 15:48

Client ID: RSK-ICAL L1

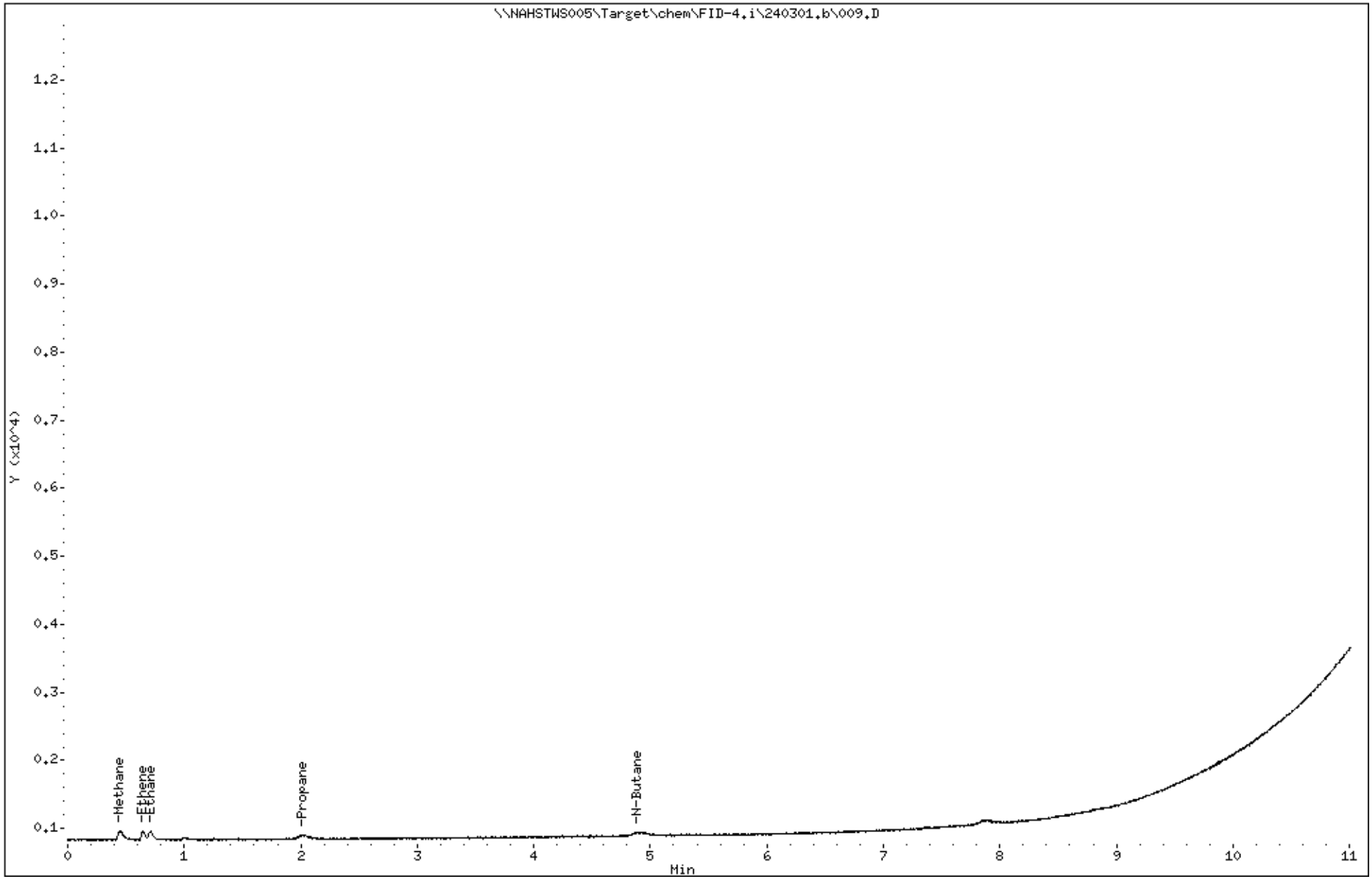
Instrument: FID-4.i

Sample Info: RSK-ICAL L1;RSK-ICAL L1;2;4

Operator: PL

Column phase: Rtx-PLOT

Column diameter: 0.53



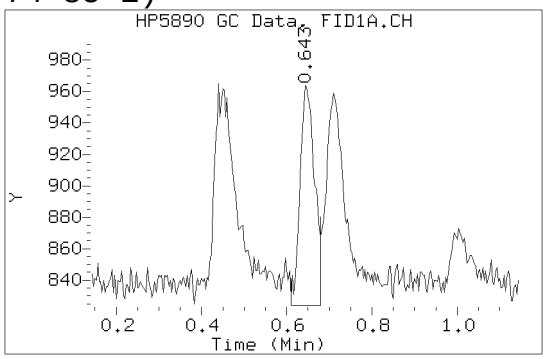
Data File : \\NAHSTWS005\Target\chem\FID-4.i\240301.b\009.D
Inj Date : 01-MAR-2024 15:48
InstruID : FID-4.i
LabSampID : RSK-ICAL L1

Ethene (74-85-1)

Reason Code: MBA

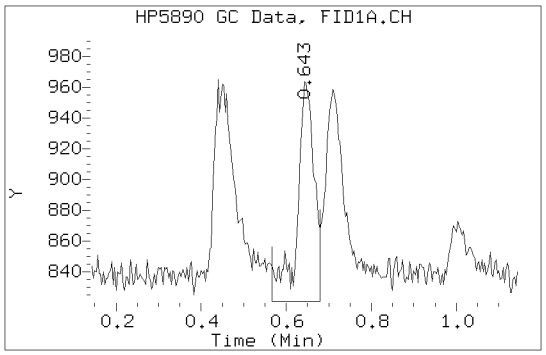
BEFORE

MASS
100
AREA
330
HEIGHT
140
11-Mar-2024
18:03
linh
pham



AFTER

MASS
100
AREA
402
HEIGHT
143
11-Mar-2024
18:13
linh
pham

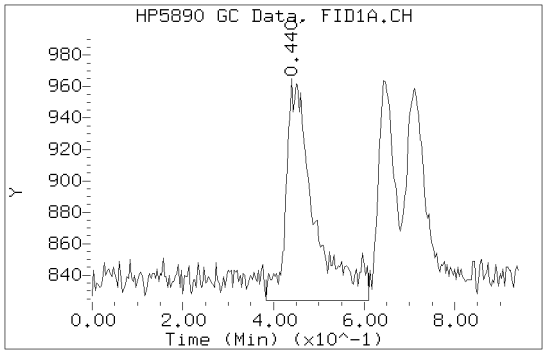


Methane (74-82-8)

Reason Code: MPT

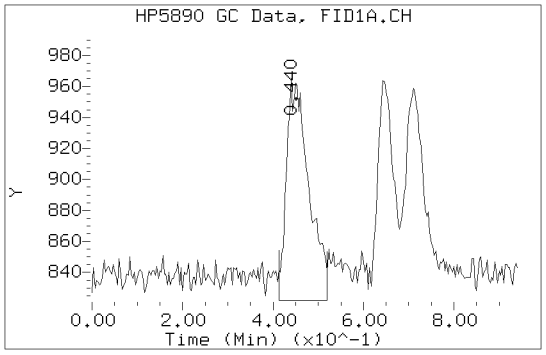
BEFORE

MASS
100
AREA
606
HEIGHT
141
11-Mar-2024
18:03
linh
pham



AFTER

MASS
100
AREA
492
HEIGHT
143
11-Mar-2024
18:13
linh
pham

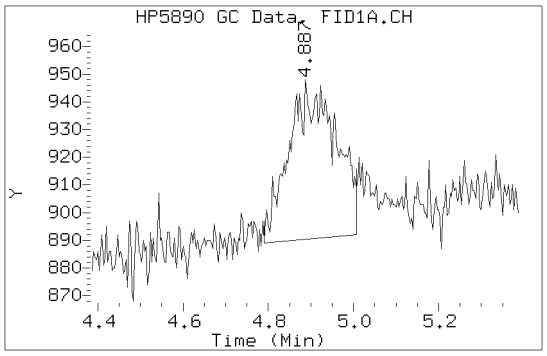


N-Butane (106-97-8)

Reason Code: MBA

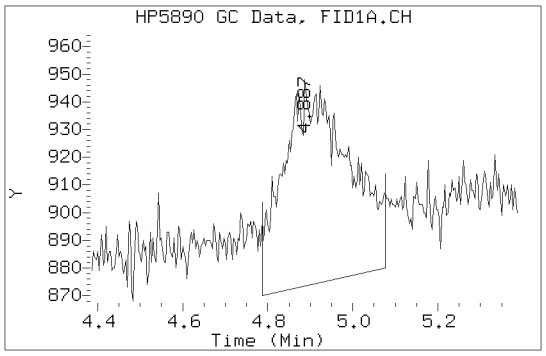
BEFORE

MASS
100
AREA
435
HEIGHT
58
11-Mar-2024
18:03
linh
pham



AFTER

MASS
100
AREA
787
HEIGHT
74
11-Mar-2024
18:13
linh
pham



Data File: \\NAHSTWS005\Target\chem\FID-4.i\240301.b\010.D Page 1
Report Date: 11-Mar-2024 18:14

ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\NAHSTWS005\Target\chem\FID-4.i\240301.b\010.D
Lab Smp Id: RSK-ICV Client Smp ID: RSK-ICV
Inj Date : 01-MAR-2024 17:00
Operator : PL Inst ID: FID-4.i
Smp Info : RSK-ICV;RSK-ICV;2;4
Misc Info : ;1;0;1
Comment :
Method : \\NAHSTWS005\Target\chem\FID-4.i\240301.b\RSKNI2.m
Meth Date : 11-Mar-2024 18:06 FID-4.i Quant Type: ESTD
Cal Date : 01-MAR-2024 15:48 Cal File: 009.D
Als bottle: 10 QC Sample: METHSPIKE
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: stdNI2.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	0.433	0.440	-0.007	9107	8.09464	8.094(M)
2 Ethene	0.640	0.643	-0.003	11911	16.4693	16.469(M)
3 Ethane	0.703	0.710	-0.007	17066	16.9979	16.997(M)
4 Propane	2.016	2.016	0.000	22796	24.6186	24.618
5 N-Butane	4.866	4.886	-0.020	30004	32.9481	32.948

QC Flag Legend

M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\FID-4.i\240301.b\010.D

Date : 01-MAR-2024 17:00

Client ID: RSK-ICV

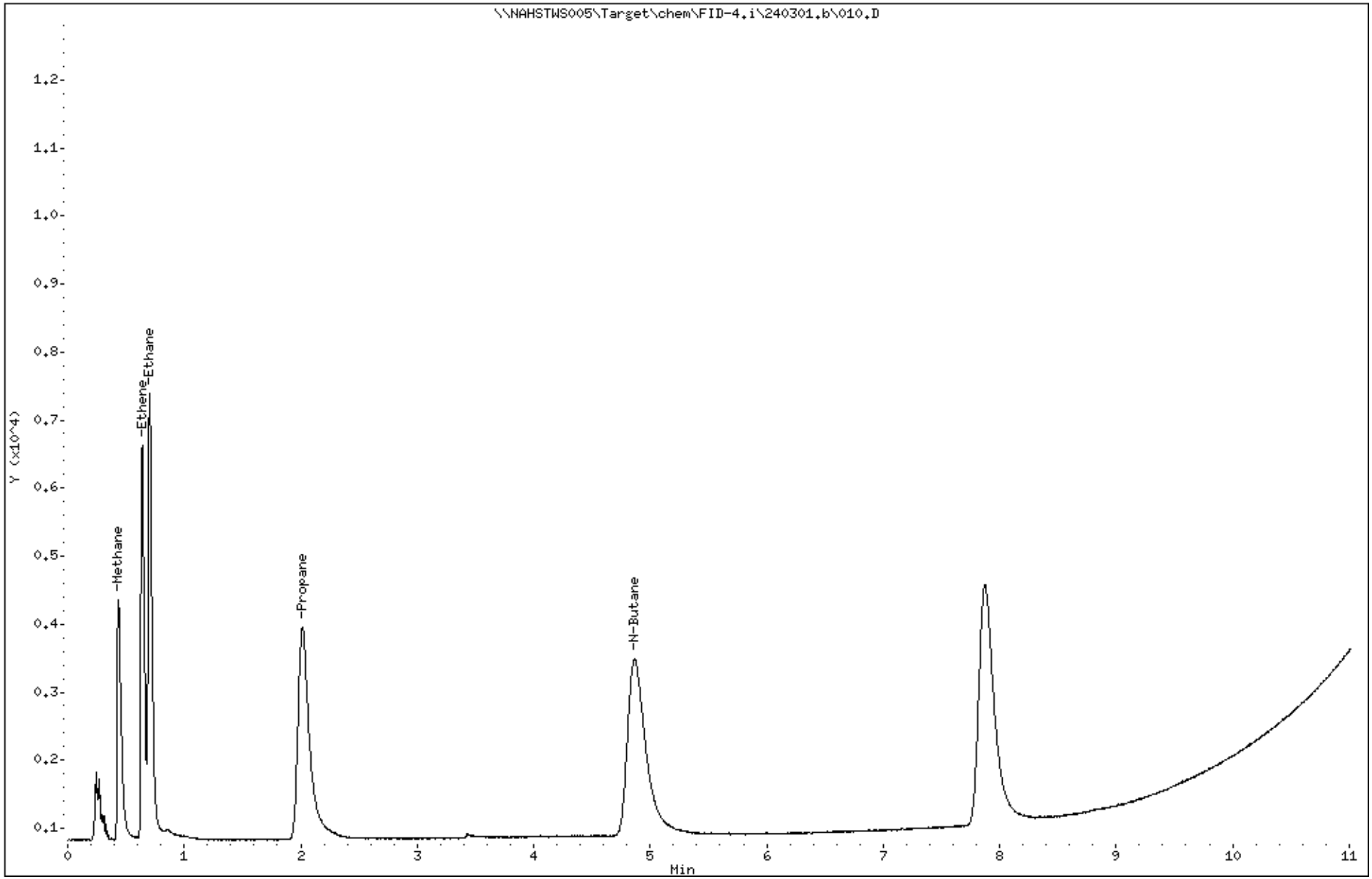
Instrument: FID-4.i

Sample Info: RSK-ICV;RSK-ICV;2;4

Operator: PL

Column phase: Rtx-PLOT

Column diameter: 0.53



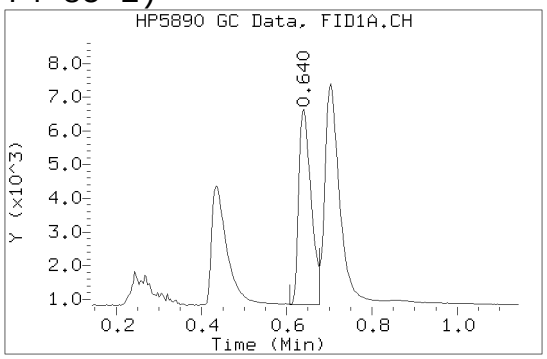
Data File : \\NAHSTWS005\Target\chem\FID-4.i\240301.b\010.D
Inj Date : 01-MAR-2024 17:00
InstruID : FID-4.i
LabSampID : RSK-ICV

Ethene (74-85-1)

Reason Code: MBA

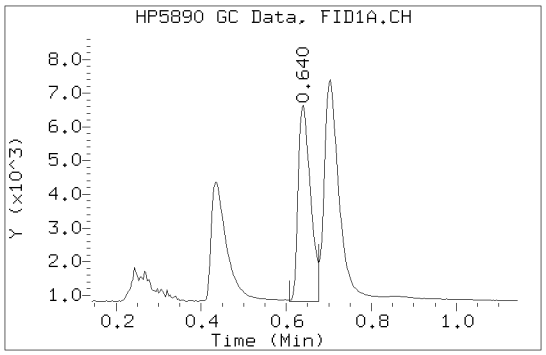
BEFORE

MASS
100
AREA
11711
HEIGHT
5791
11-Mar-2024
18:03
linh
pham



AFTER

MASS
100
AREA
11911
HEIGHT
5810
11-Mar-2024
18:14
linh
pham

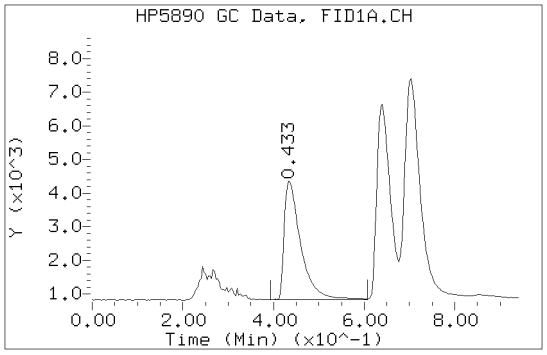


Methane (74-82-8)

Reason Code: MBA

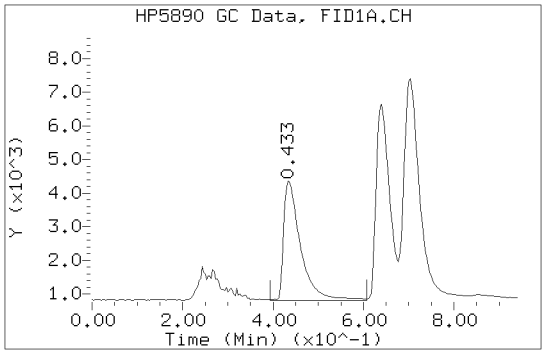
BEFORE

MASS
100
AREA
8956
HEIGHT
3536
11-Mar-2024
18:03
linh
pham



AFTER

MASS
100
AREA
9107
HEIGHT
3542
11-Mar-2024
18:14
linh
pham

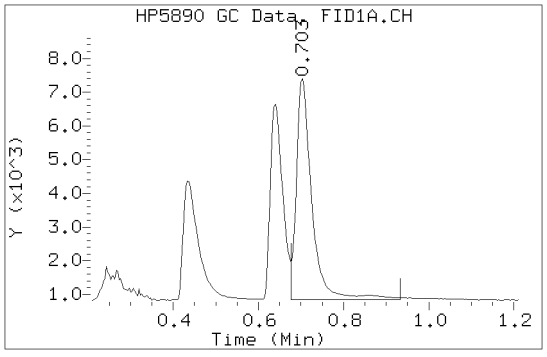


Ethane (74-84-0)

Reason Code: MBA

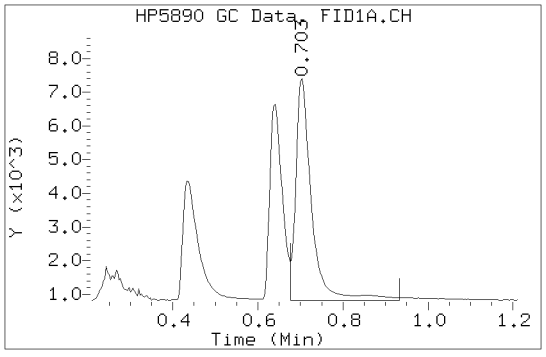
BEFORE

MASS
44
AREA
16654
HEIGHT
6554
11-Mar-2024
18:03
linh
pham



AFTER

MASS
44
AREA
17066
HEIGHT
6573
11-Mar-2024
18:14
linh
pham



right solutions.
right partner.

RawData

<textMethods>

Workorder

HS24051300

Client

Bhate Environmental Associates, Inc.

Project

LHAAP Site 50

06/22/2024

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\240531.b\001.D Page 1
Report Date: 31-May-2024 16:23

ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\NAHSTWS005\Target\chem\FID-4.i\240531.b\001.D
Lab Smp Id: RSK-CCV Client Smp ID: RSK-CCV
Inj Date : 31-MAY-2024 09:09
Operator : RG 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\240531.b\RSKNI3.m
Meth Date : 31-May-2024 12:13 ryan.guthr Quant Type: ESTD
Cal Date : 01-MAR-2024 11:04 Cal File: 008.D
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: RSK175.sub
Target Version: 4.14
Processing Host: NAHSTW7021

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

					AMOUNTS	
					CAL-AMT	ON-COL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(ug/L)	(ug/L)
1 Methane	0.430	0.433	-0.003	9668	9.64700	8.593(M)
2 Ethene	0.633	0.636	-0.003	10435	16.8500	14.428(M)
3 Ethane	0.696	0.700	-0.004	14840	18.0430	14.780(M)

QC Flag Legend

M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\FID-4.i\240531.b\001.D

Date : 31-MAY-2024 09:09

Client ID: RSK-CCV

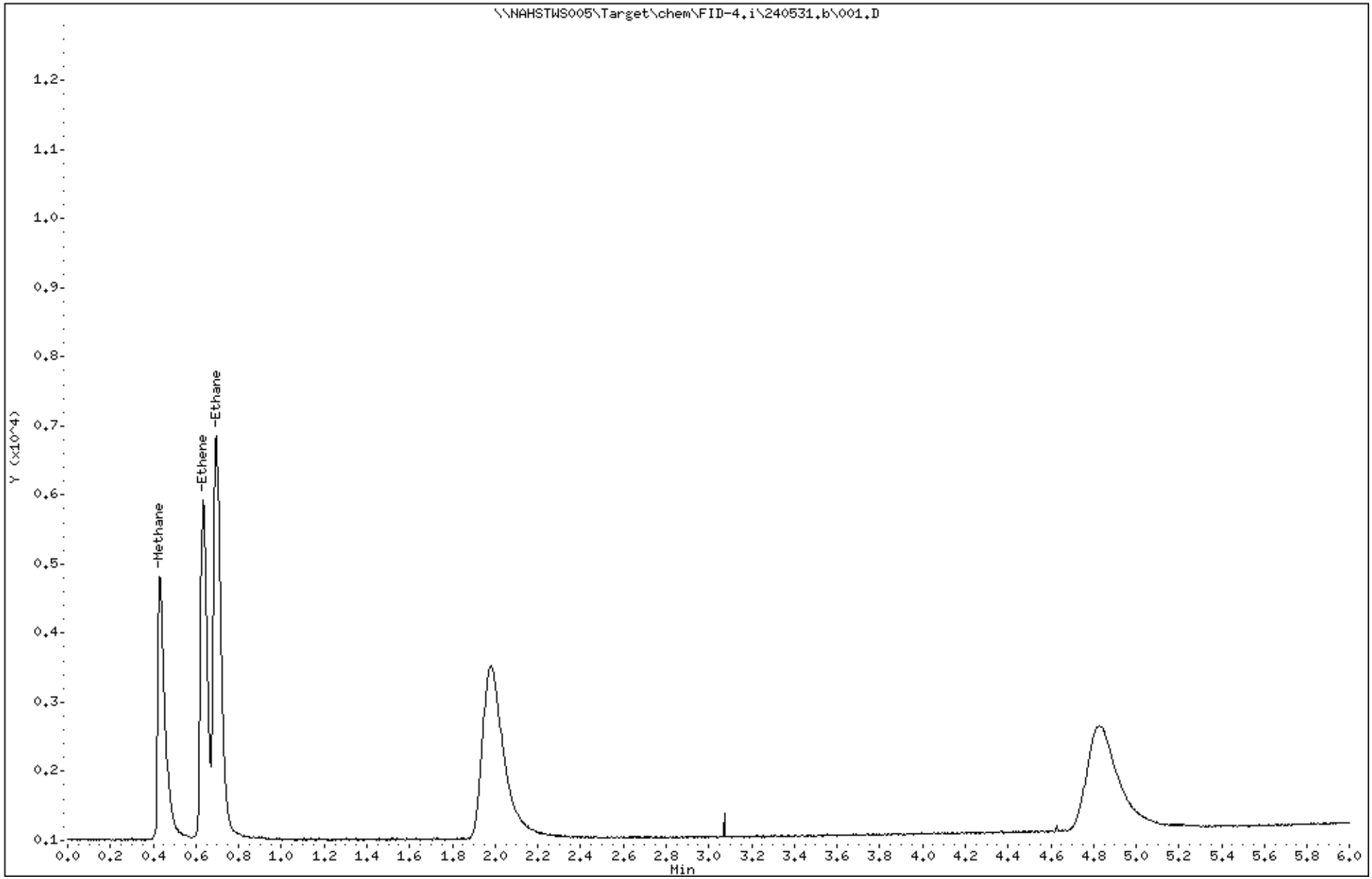
Instrument: FID-4.i

Sample Info: RSK-CCV;RSK-CCV;2;4

Operator: RG

Column phase: Rtx-PLOT

Column diameter: 0.53



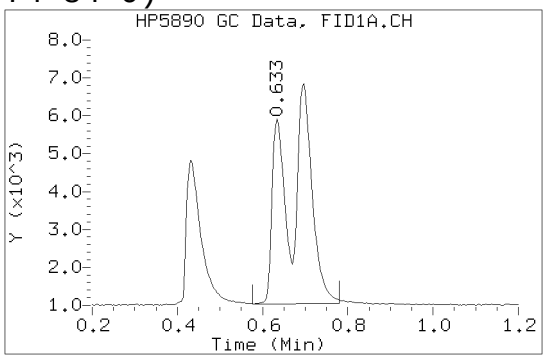
Data File : \\NAHSTWS005\Target\chem\FID-4.i\240531.b\001.D
Inj Date : 31-MAY-2024 09:09
InstruID : FID-4.i
LabSampID : RSK-CCV

Ethane (74-84-0)

Reason Code: MUP

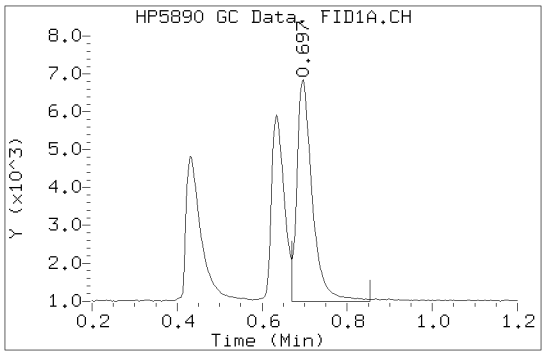
BEFORE

MASS
44
AREA
24090
HEIGHT
4888
31-May-2024
09:16
ALSHS
Server



AFTER

MASS
44
AREA
14840
HEIGHT
5858
31-May-2024
16:23
ALSHS
Server

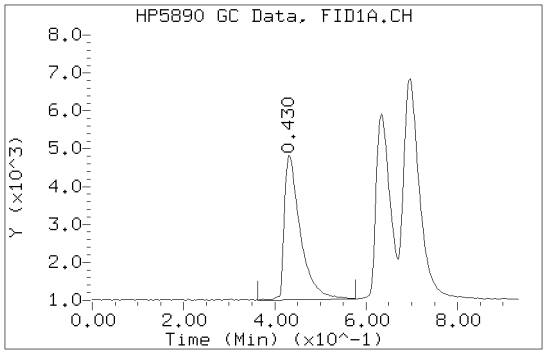


Methane (74-82-8)

Reason Code: MBA

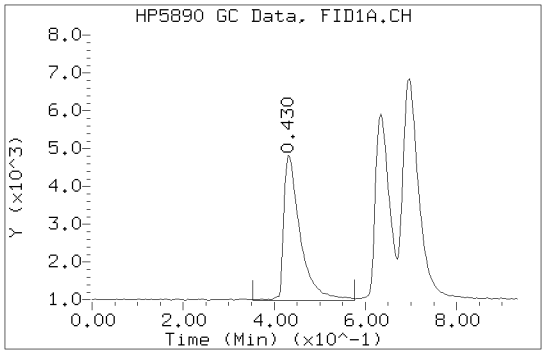
BEFORE

MASS
100
AREA
16485
HEIGHT
1523
31-May-2024
09:16
ALSHS
Server



AFTER

MASS
100
AREA
9668
HEIGHT
3828
31-May-2024
16:23
ALSHS
Server

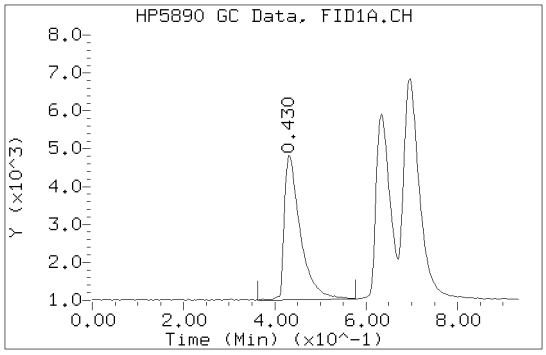


Ethene (74-85-1)

Reason Code: MUP

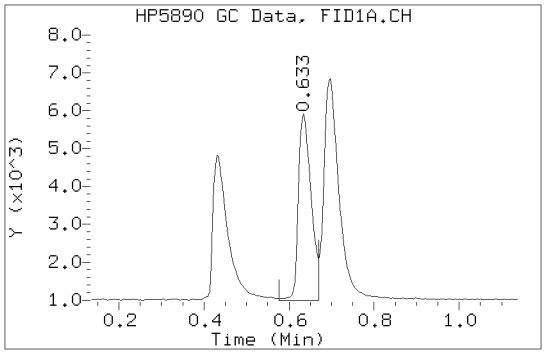
BEFORE

MASS
100
AREA
18217
HEIGHT
2520
31-May-2024
09:16
ALSHS
Server



AFTER

MASS
100
AREA
10435
HEIGHT
4932
31-May-2024
16:23
ALSHS
Server



Data File: \\NAHSTWS005\Target\chem\FID-4.i\240531.b\002.D Page 1
Report Date: 31-May-2024 16:23

ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\NAHSTWS005\Target\chem\FID-4.i\240531.b\002.D
Lab Smp Id: MBLK-240531 Client Smp ID: MBLK-240531
Inj Date : 31-MAY-2024 09:17
Operator : RG Inst ID: FID-4.i
Smp Info : MBLK-240531;MBLK-240531;3;;BLANK
Misc Info : ;1;0;1
Comment :
Method : \\NAHSTWS005\Target\chem\FID-4.i\240531.b\RSKNI3.m
Meth Date : 31-May-2024 12:13 ryan.guthr Quant Type: ESTD
Cal Date : 01-MAR-2024 11:04 Cal File: 008.D
Als bottle: 2 QC Sample: BLANK
Dil Factor: 1.00000
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)

Data File: \\NAHSTWS005\Target\chem\FID-4.i\240531.b\002.D

Date : 31-MAY-2024 09:17

Client ID: MBLK-240531

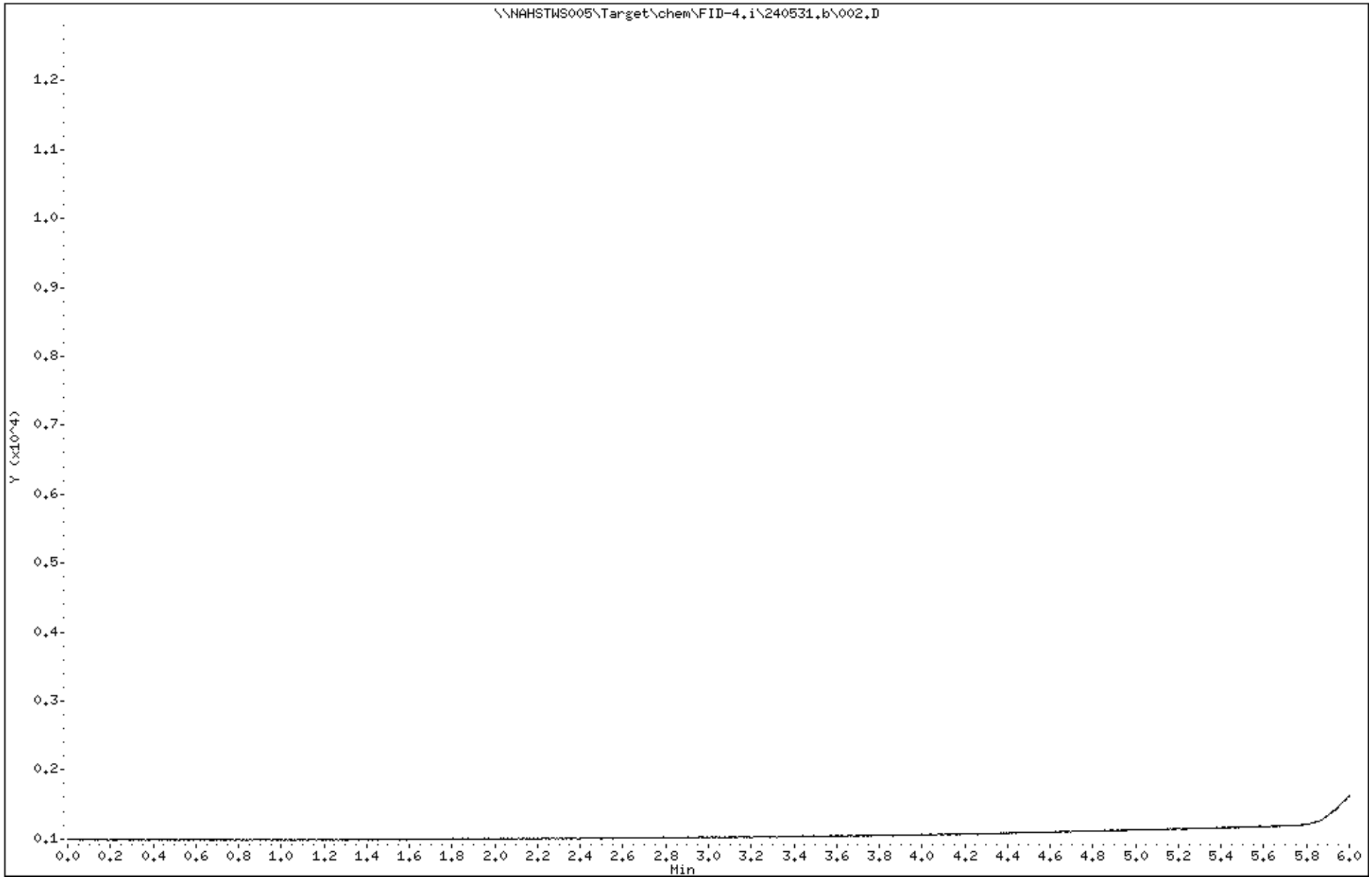
Instrument: FID-4.i

Sample Info: MBLK-240531;MBLK-240531;3;;BLANK

Operator: RG

Column phase: Rtx-PLOT

Column diameter: 0.53



Data File : \\NAHSTWS005\Target\chem\FID-4.i\240531.b\002.D
Inj Date : 31-MAY-2024 09:17
InstruID : FID-4.i
LabSampID : MBLK-240531

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\FID-4.i\240531.b\003.D Page 1
Report Date: 31-May-2024 16:24

ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\NAHSTWS005\Target\chem\FID-4.i\240531.b\003.D
Lab Smp Id: LCS-240531 Client Smp ID: LCS-240531
Inj Date : 31-MAY-2024 09:30
Operator : RG Inst ID: FID-4.i
Smp Info : LCS-240531;LCS-240531;3;;LCS
Misc Info : ;1;0;1
Comment :
Method : \\nahstws005\Target\chem\FID-4.i\240531.b\RSKNI3.m
Meth Date : 31-May-2024 12:13 ryan.guthr Quant Type: ESTD
Cal Date : 01-MAR-2024 11:04 Cal File: 008.D
Als bottle: 3 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: RSK175.sub
Target Version: 4.14

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

					CONCENTRATIONS	
					ON-COLUMN	FINAL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(ug/L)	(ug/L)
1 Methane	0.430	0.433	-0.003	10215	9.07948	9.079
2 Ethene	0.633	0.636	-0.003	10525	14.5529	14.552(M)
3 Ethane	0.696	0.700	-0.004	15380	15.3186	15.318(M)

QC Flag Legend

M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\FID-4.i\240531.b\003.D

Date : 31-MAY-2024 09:30

Client ID: LCS-240531

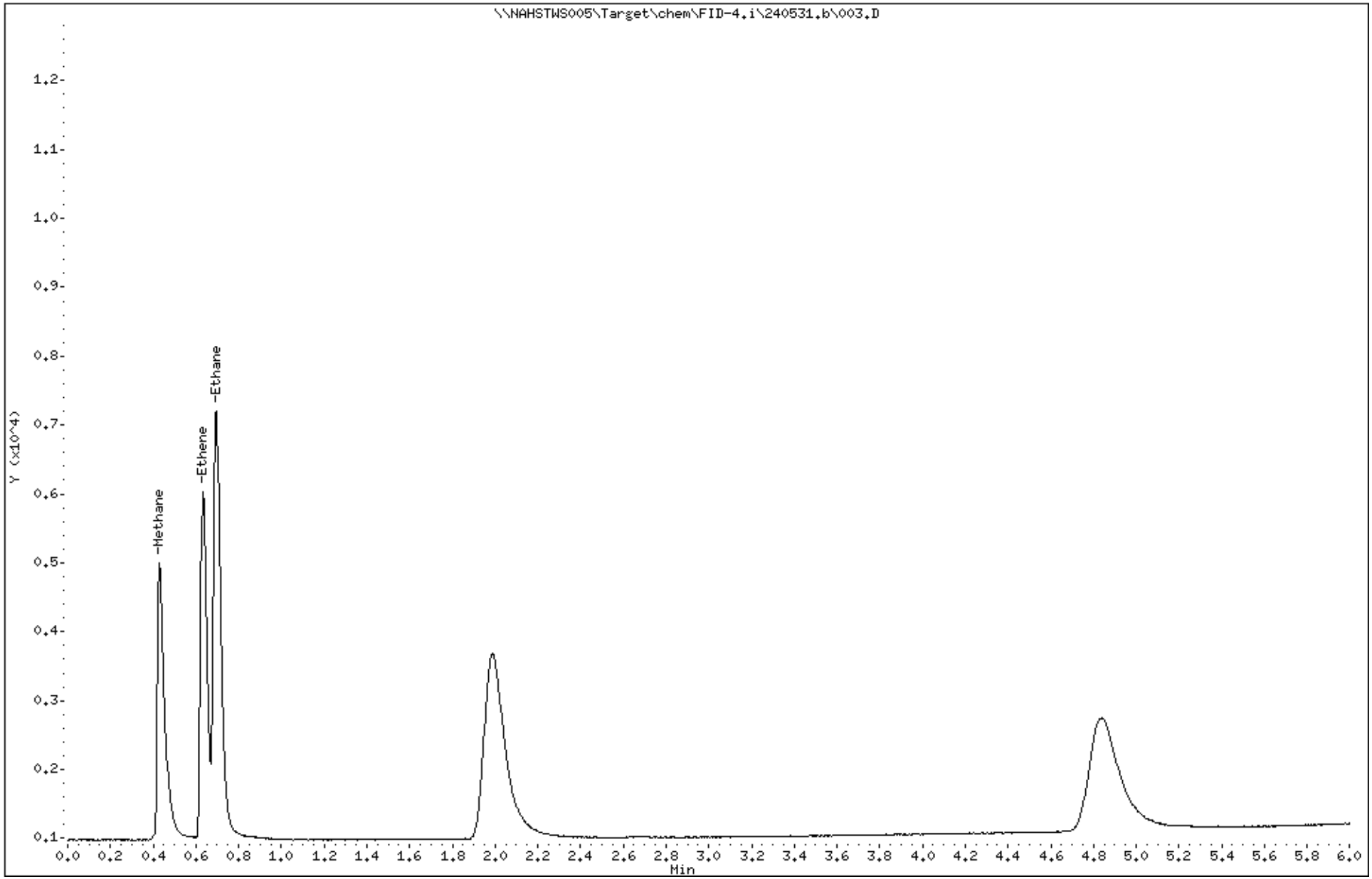
Instrument: FID-4.i

Sample Info: LCS-240531;LCS-240531;3;;LCS

Operator: RG

Column phase: Rtx-PLOT

Column diameter: 0.53



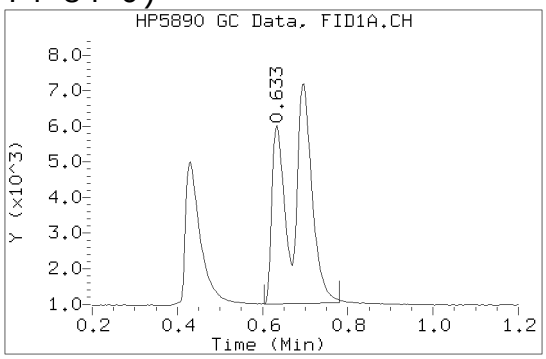
Data File : \\NAHSTWS005\Target\chem\FID-4.i\240531.b\003.D
Inj Date : 31-MAY-2024 09:30
InstruID : FID-4.i
LabSampID : LCS-240531

Ethane (74-84-0)

Reason Code: MUP

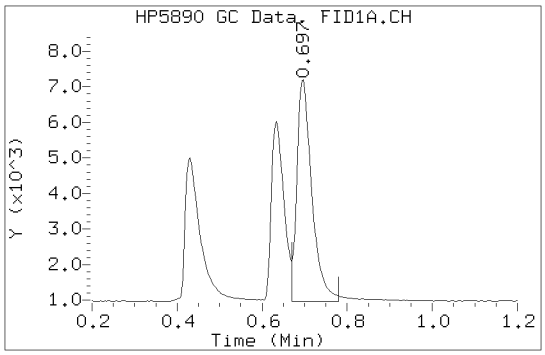
BEFORE

MASS
44
AREA
25012
HEIGHT
5011
31-May-2024
09:39
ALSHS
Server



AFTER

MASS
44
AREA
15380
HEIGHT
6229
31-May-2024
16:24
ALSHS
Server

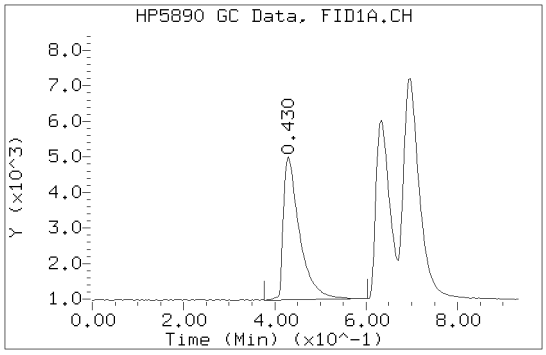


Ethene (74-85-1)

Reason Code: MUP

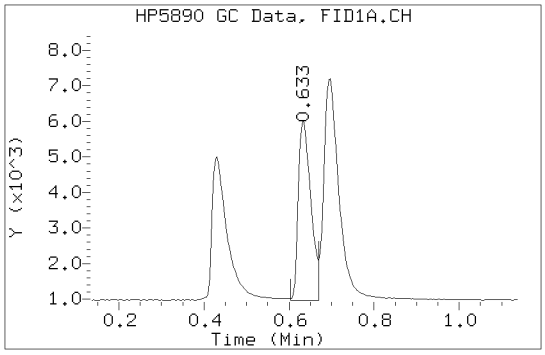
BEFORE

MASS
100
AREA
19265
HEIGHT
2694
31-May-2024
09:39
ALSHS
Server



AFTER

MASS
100
AREA
10525
HEIGHT
5061
31-May-2024
16:24
ALSHS
Server



Data File: \\NAHSTWS005\Target\chem\FID-4.i\240531.b\004.D Page 1
Report Date: 31-May-2024 16:24

ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\NAHSTWS005\Target\chem\FID-4.i\240531.b\004.D
Lab Smp Id: LCSD-240531 Client Smp ID: LCSD-240531
Inj Date : 31-MAY-2024 09:38
Operator : RG Inst ID: FID-4.i
Smp Info : LCSD-240531;LCSD-240531;3;;LCSD
Misc Info : ;1;0;1
Comment :
Method : \\nahstws005\Target\chem\FID-4.i\240531.b\RSKNI3.m
Meth Date : 31-May-2024 12:13 ryan.guthr Quant Type: ESTD
Cal Date : 01-MAR-2024 11:04 Cal File: 008.D
Als bottle: 4 QC Sample: LCSD
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: RSK175.sub
Target Version: 4.14

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

					CONCENTRATIONS	
					ON-COLUMN	FINAL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(ug/L)	(ug/L)
1 Methane	0.430	0.433	-0.003	9775	8.68839	8.688
2 Ethene	0.633	0.636	-0.003	10044	13.8878	13.887(M)
3 Ethane	0.696	0.700	-0.004	14830	14.7708	14.770(M)

QC Flag Legend

M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\FID-4.i\240531.b\004.D

Date : 31-MAY-2024 09:38

Client ID: LCSD-240531

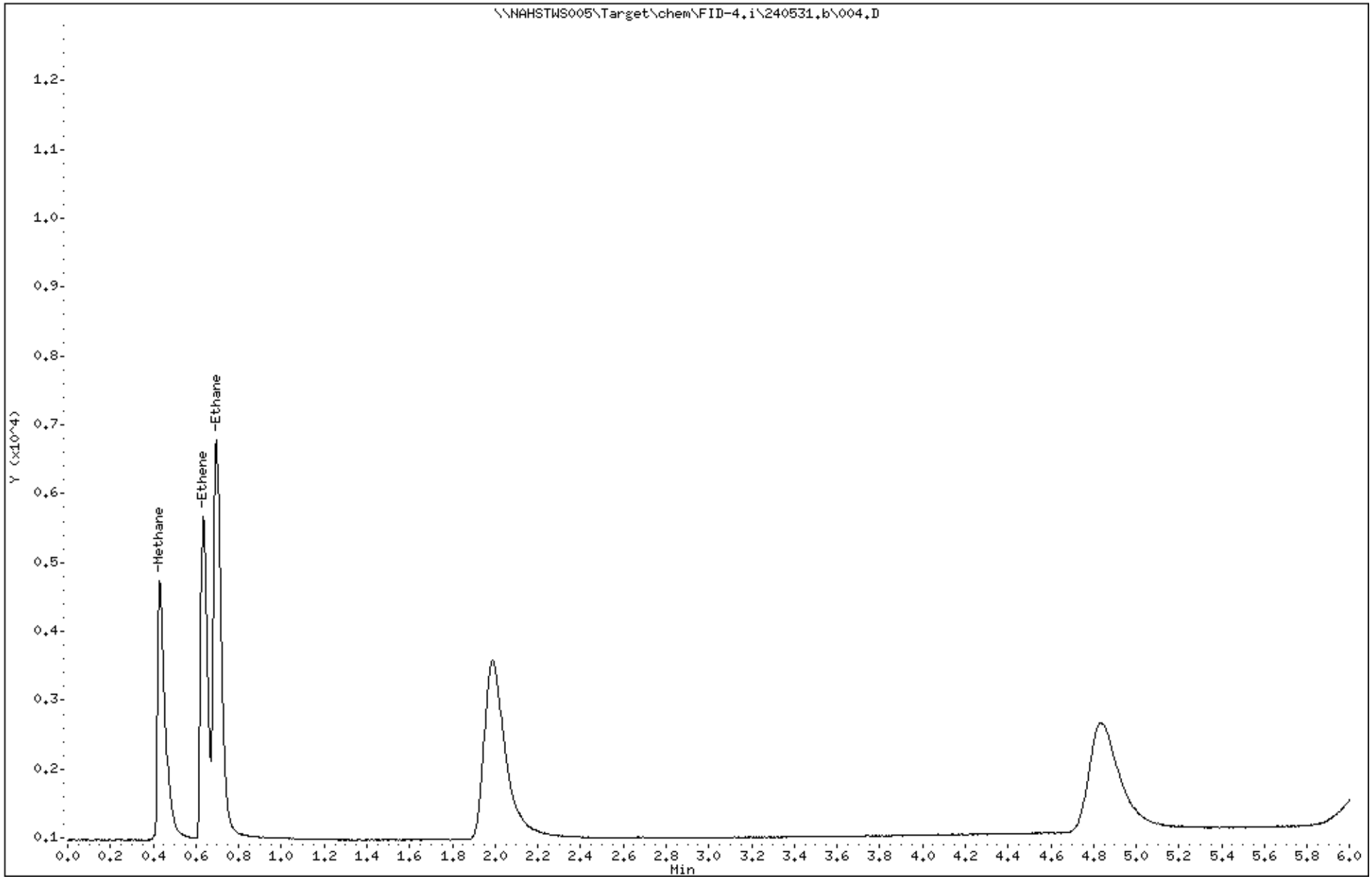
Instrument: FID-4.i

Sample Info: LCSD-240531;LCSD-240531;3;;LCSD

Operator: RG

Column phase: Rtx-PLOT

Column diameter: 0.53



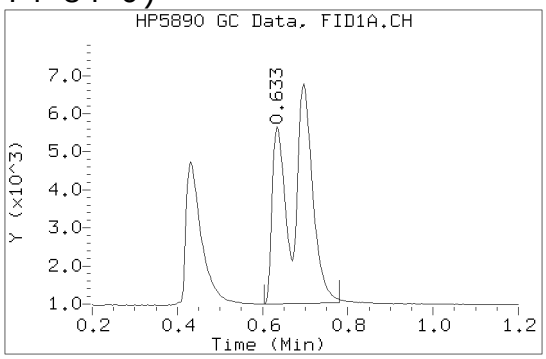
Data File : \\NAHSTWS005\Target\chem\FID-4.i\240531.b\004.D
Inj Date : 31-MAY-2024 09:38
InstruID : FID-4.i
LabSampID : LCSD-240531

Ethane (74-84-0)

Reason Code: MUP

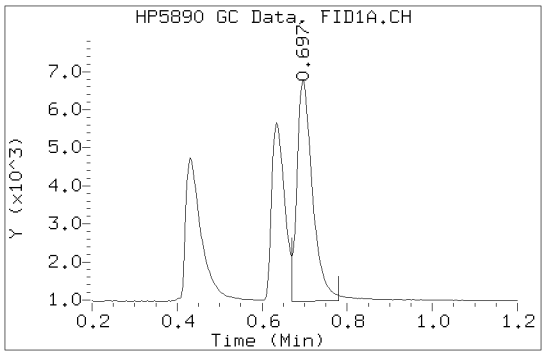
BEFORE

MASS
44
AREA
24207
HEIGHT
4664
31-May-2024
09:45
ALSHS
Server



AFTER

MASS
44
AREA
14830
HEIGHT
5816
31-May-2024
16:24
ALSHS
Server

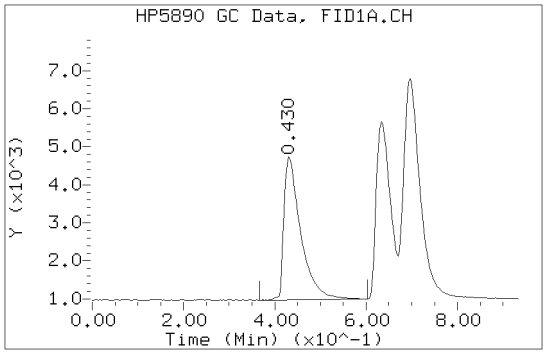


Ethene (74-85-1)

Reason Code: MUP

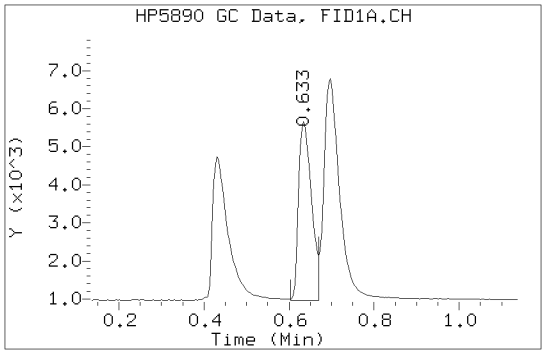
BEFORE

MASS
100
AREA
18858
HEIGHT
2603
31-May-2024
09:45
ALSHS
Server



AFTER

MASS
100
AREA
10044
HEIGHT
4696
31-May-2024
16:24
ALSHS
Server



Data File: \\nahstws005\Target\chem\FID-4.i\240531.b\007.D Page 1
Report Date: 31-May-2024 10:58

ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\nahstws005\Target\chem\FID-4.i\240531.b\007.D
Lab Smp Id: HS24051300-05 Client Smp ID: HS24051300-05
Inj Date : 31-MAY-2024 10:11
Operator : RG Inst ID: FID-4.i
Smp Info : HS24051300-05;HS24051300-05
Misc Info : ;1;0;1
Comment :
Method : \\nahstws005\Target\chem\FID-4.i\240531.b\RSKNI3.m
Meth Date : 31-May-2024 09:25 ryan.guthr Quant Type: ESTD
Cal Date : 01-MAR-2024 11:04 Cal File: 008.D
Als bottle: 7
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: RSK175.sub
Target Version: 4.14
Processing Host: NAHSTW7021

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	4671	4.15176	4.151
3 Ethane	0.776	0.696	0.080	823	0.81971	0.819(a)

QC Flag Legend

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

Data File: \\nahstws005\Target\chem\FID-4.i\240531.b\007.D

Date : 31-MAY-2024 10:11

Client ID: HS24051300-05

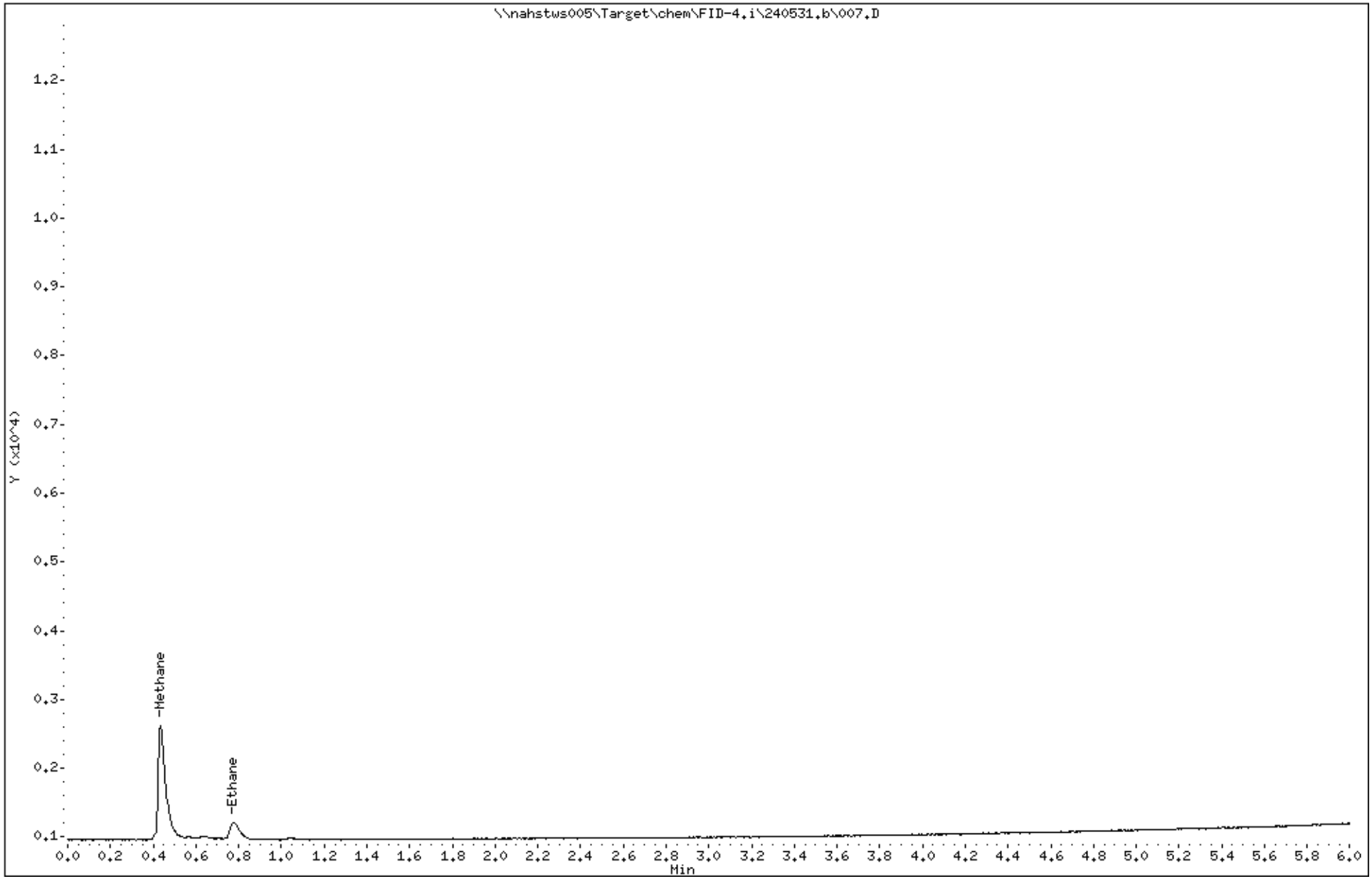
Instrument: FID-4.i

Sample Info: HS24051300-05;HS24051300-05

Operator: RG

Column phase: Rtx-PLOT

Column diameter: 0.53



Data File : \\nahstws005\Target\chem\FID-4.i\240531.b\007.D
Inj Date : 31-MAY-2024 10:11
InstruID : FID-4.i
LabSampID : HS24051300-05

NO MANUAL INTEGRATIONS

Data File: \\nahstws005\Target\chem\FID-4.i\240531.b\008.D Page 1
Report Date: 31-May-2024 14:34

ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\nahstws005\Target\chem\FID-4.i\240531.b\008.D
Lab Smp Id: HS24051300-06 Client Smp ID: HS24051300-06
Inj Date : 31-MAY-2024 10:37
Operator : RG Inst ID: FID-4.i
Smp Info : HS24051300-06;HS24051300-06
Misc Info : ;1;0;1
Comment :
Method : \\nahstws005\Target\chem\FID-4.i\240531.b\RSKNI3.m
Meth Date : 31-May-2024 12:13 ryan.guthr Quant Type: ESTD
Cal Date : 01-MAR-2024 11:04 Cal File: 008.D
Als bottle: 8
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: RSK175.sub
Target Version: 4.14

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

					CONCENTRATIONS	
					ON-COLUMN	FINAL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(ug/L)	(ug/L)
1 Methane	0.466	0.433	0.033	1485	1.31992	1.319(M)

QC Flag Legend

M - Compound response manually integrated.

Data File: \\nahstws005\Target\chem\FID-4.i\240531.b\008.D

Date : 31-MAY-2024 10:37

Client ID: HS24051300-06

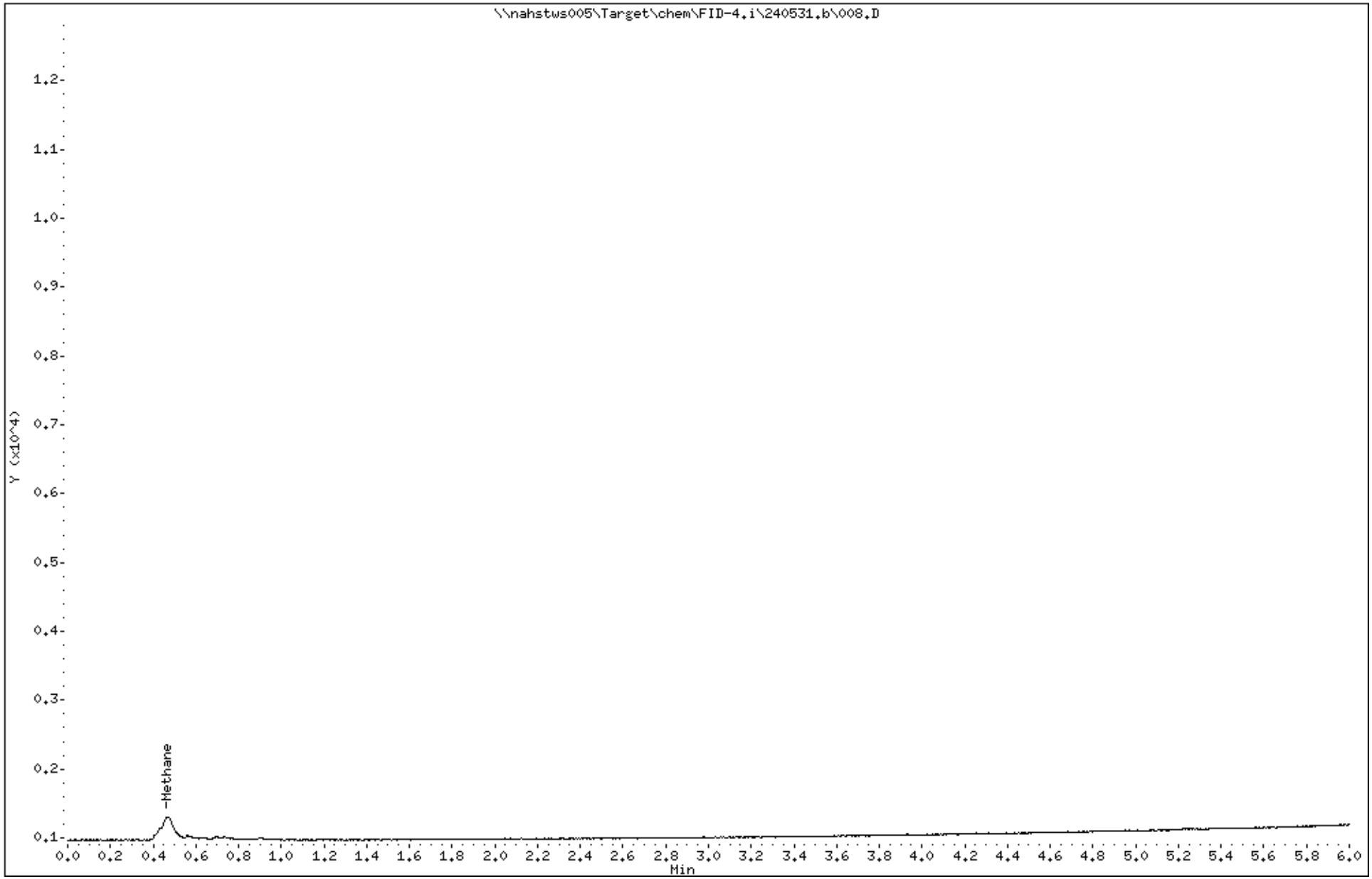
Instrument: FID-4.i

Sample Info: HS24051300-06;HS24051300-06

Operator: RG

Column phase: Rtx-PLOT

Column diameter: 0.53



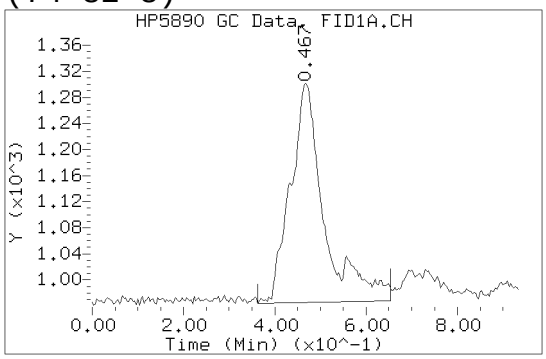
Data File : \\nahstws005\Target\chem\FID-4.i\240531.b\008.D
Inj Date : 31-MAY-2024 10:37
InstruID : FID-4.i
LabSampID : HS24051300-06

Methane (74-82-8)

Reason Code: MBA

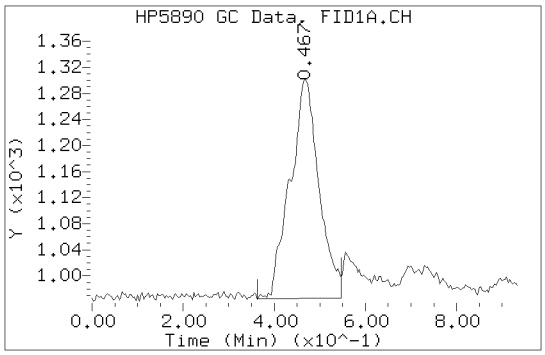
BEFORE

MASS
100
AREA
0
HEIGHT
0
31-May-2024
10:45
ALSHS
Server



AFTER

MASS
100
AREA
1485
HEIGHT
335
31-May-2024
14:34
ALSHS
Server



Data File: \\nahstws005\Target\chem\FID-4.i\240531.b\009.D Page 1
Report Date: 31-May-2024 10:58

ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\nahstws005\Target\chem\FID-4.i\240531.b\009.D
Lab Smp Id: HS24051300-07 Client Smp ID: HS24051300-07
Inj Date : 31-MAY-2024 10:45
Operator : RG Inst ID: FID-4.i
Smp Info : HS24051300-07;HS24051300-07
Misc Info : ;1;0;1
Comment :
Method : \\nahstws005\Target\chem\FID-4.i\240531.b\RSKNI3.m
Meth Date : 31-May-2024 09:25 ryan.guthr Quant Type: ESTD
Cal Date : 01-MAR-2024 11:04 Cal File: 008.D
Als bottle: 9
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: RSK175.sub
Target Version: 4.14
Processing Host: NAHSTW7021

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

					CONCENTRATIONS	
					ON-COLUMN	FINAL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(ug/L)	(ug/L)
1 Methane	0.433	0.430	0.003	1028863	914.492	914.492(A)

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\nahstws005\Target\chem\FID-4.i\240531.b\009.D

Date : 31-MAY-2024 10:45

Client ID: HS24051300-07

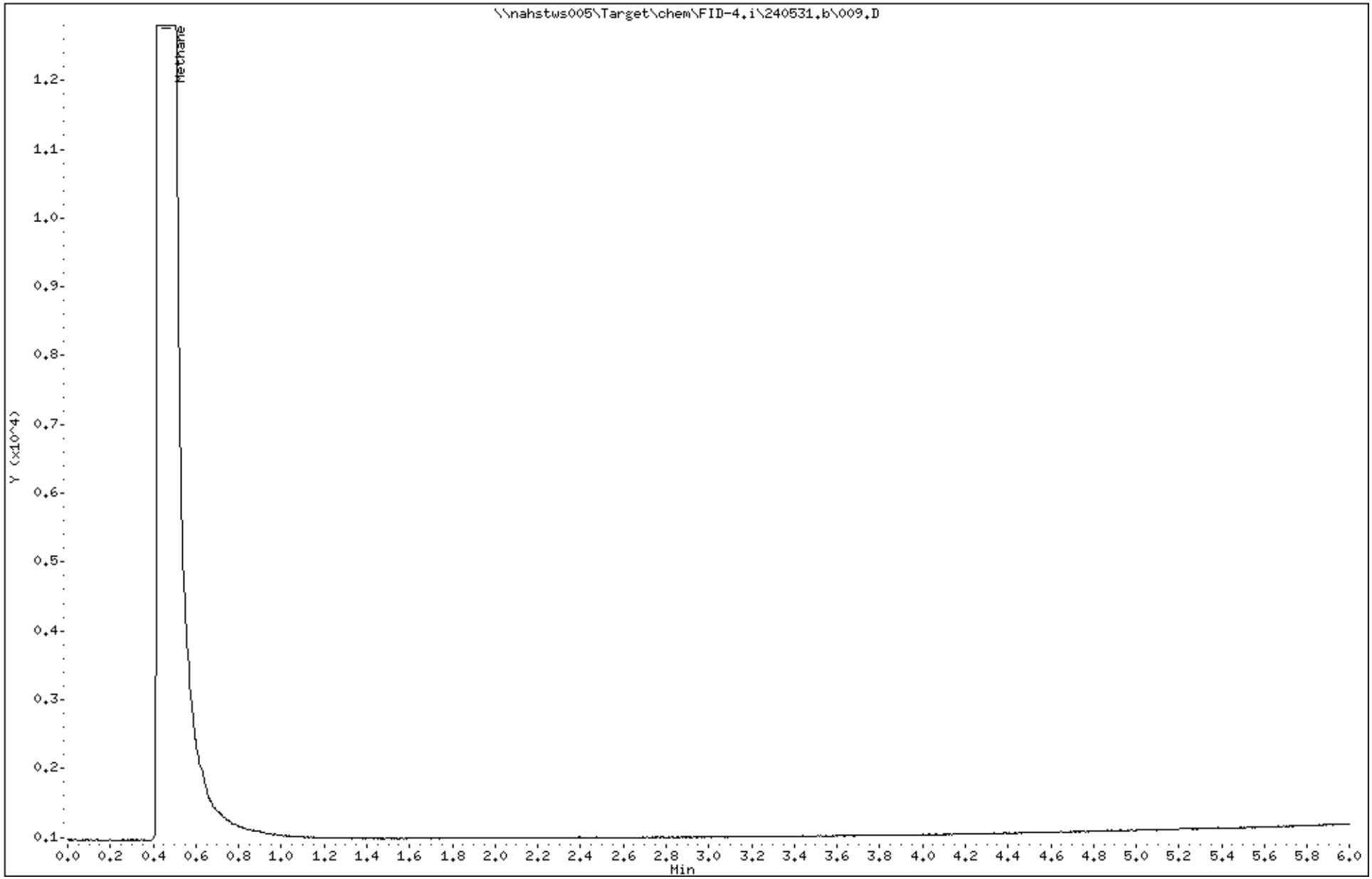
Instrument: FID-4.i

Sample Info: HS24051300-07;HS24051300-07

Operator: RG

Column phase: Rtx-PLOT

Column diameter: 0.53



Data File : \\nahstws005\Target\chem\FID-4.i\240531.b\009.D
Inj Date : 31-MAY-2024 10:45
InstruID : FID-4.i
LabSampID : HS24051300-07

NO MANUAL INTEGRATIONS

ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\nahstws005\Target\chem\FID-4.i\240531.b\011.D
Lab Smp Id: RSK-CCV Client Smp ID: RSK-CCV
Inj Date : 31-MAY-2024 11:03
Operator : RG 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\240531.b\RSKNI3.m
Meth Date : 31-May-2024 11:11 ryan.guthr Quant Type: ESTD
Cal Date : 01-MAR-2024 11:04 Cal File: 008.D
Als bottle: 11 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: RSK175.sub
Target Version: 4.14
Processing Host: NAHSTW7021

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

					AMOUNTS	
					CAL-AMT	ON-COL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(ug/L)	(ug/L)
1 Methane	0.433	0.433	0.000	8980	9.64700	7.981
2 Ethene	0.636	0.636	0.000	9821	16.8500	13.579
3 Ethane	0.700	0.700	0.000	14899	18.0430	14.839

Data File: \\nahstws005\Target\chem\FID-4.i\240531.b\011.D

Date : 31-MAY-2024 11:03

Client ID: RSK-CCV

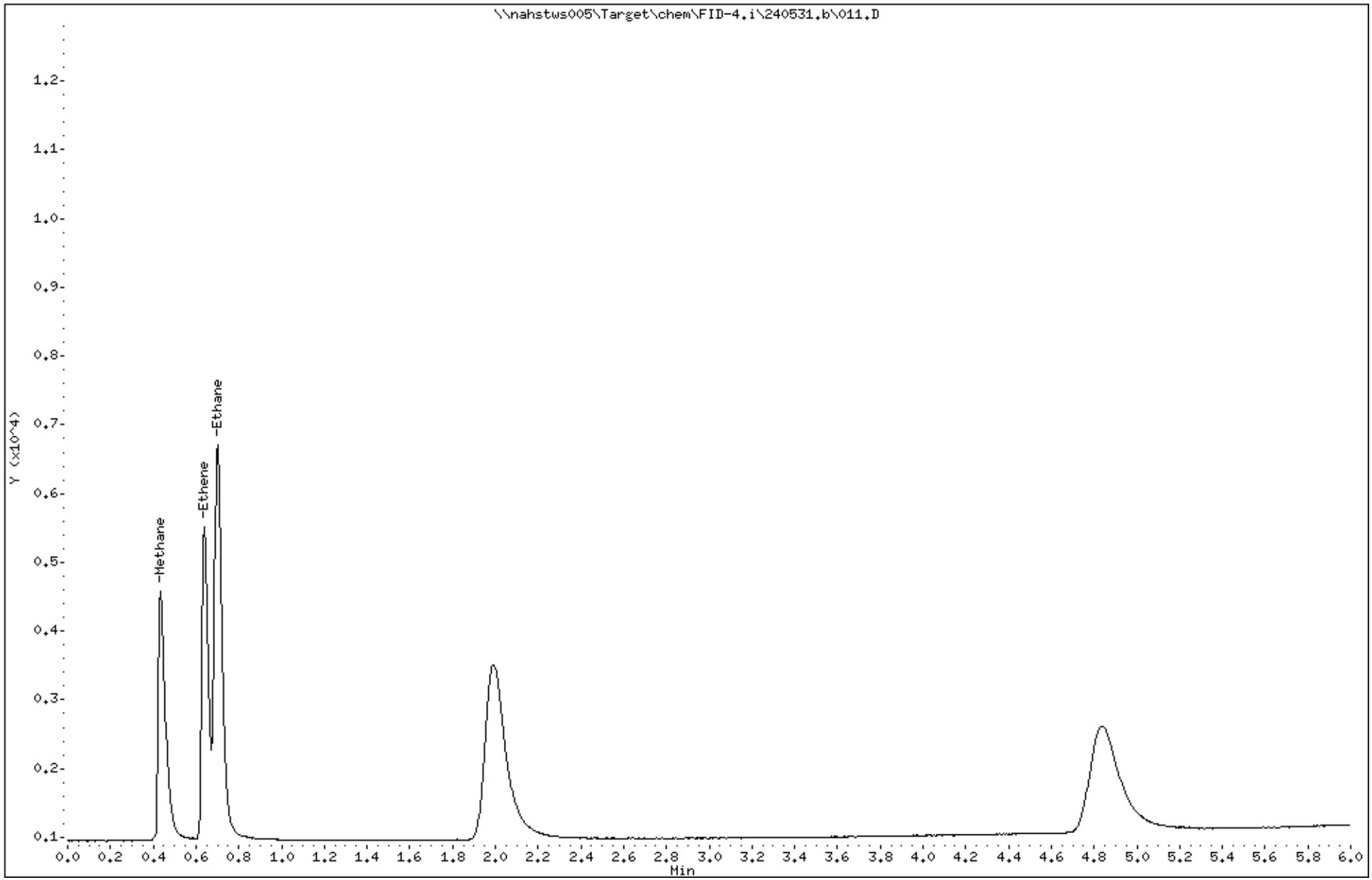
Instrument: FID-4.i

Sample Info: RSK-CCV;RSK-CCV;2;4

Operator: RG

Column phase: Rtx-PLOT

Column diameter: 0.53



Data File : \\nahstws005\Target\chem\FID-4.i\240531.b\011.D
Inj Date : 31-MAY-2024 11:03
InstruID : FID-4.i
LabSampID : RSK-CCV

NO MANUAL INTEGRATIONS

Data File: \\nahstws005\Target\chem\FID-4.i\240531.b\013.D Page 1
Report Date: 31-May-2024 14:44

ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\nahstws005\Target\chem\FID-4.i\240531.b\013.D
Lab Smp Id: HS24051300-07 Client Smp ID: HS24051300-07
Inj Date : 31-MAY-2024 11:23
Operator : RG Inst ID: FID-4.i
Smp Info : HS24051300-07;HS24051300-07
Misc Info : ;1;0;100
Comment :
Method : \\nahstws005\Target\chem\FID-4.i\240531.b\RSKNI3.m
Meth Date : 31-May-2024 12:13 ryan.guthr Quant Type: ESTD
Cal Date : 01-MAR-2024 11:04 Cal File: 008.D
Als bottle: 13
Dil Factor: 100.00000
Integrator: Falcon Compound Sublist: RSK175.sub
Target Version: 4.14

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

					CONCENTRATIONS	
					ON-COLUMN	FINAL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(ug/L)	(ug/L)
1 Methane	0.443	0.433	0.010	8104	7.20314	720.313(M)

QC Flag Legend

M - Compound response manually integrated.

01333538

Data File: \\nahstws005\Target\chem\FID-4.i\240531.b\013.D

Date : 31-MAY-2024 11:23

Client ID: HS24051300-07

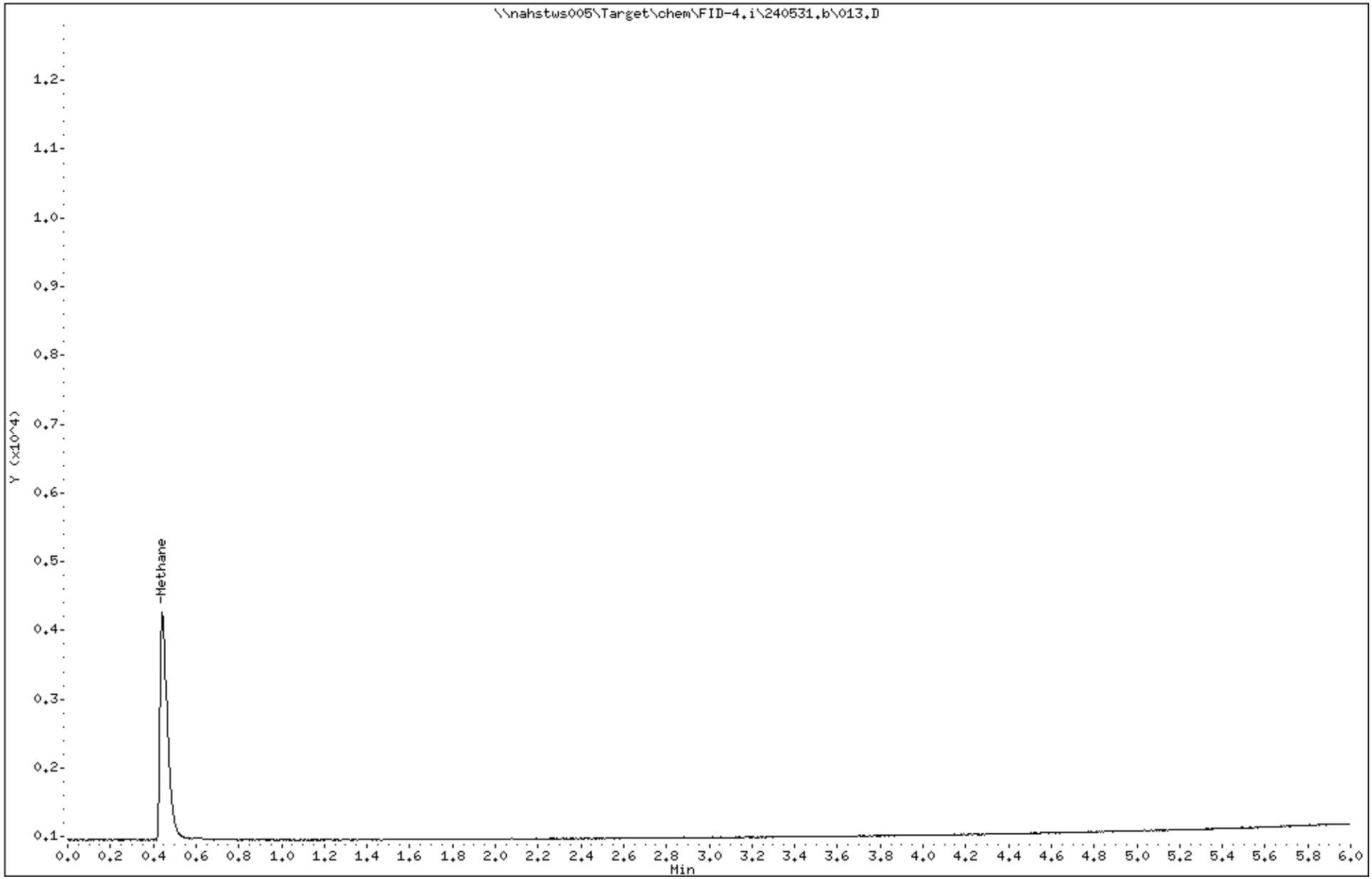
Instrument: FID-4.i

Sample Info: HS24051300-07;HS24051300-07

Operator: RG

Column phase: Rtx-PLOT

Column diameter: 0.53



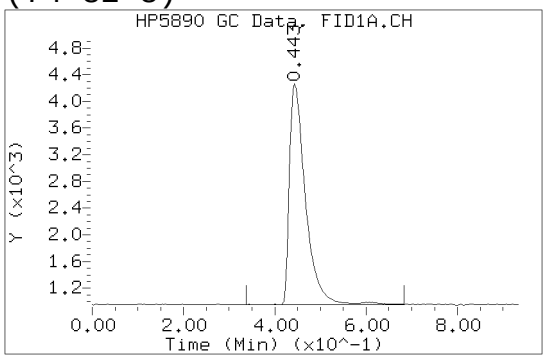
Data File : \\nahstws005\Target\chem\FID-4.i\240531.b\013.D
Inj Date : 31-MAY-2024 11:23
InstruID : FID-4.i
LabSampID : HS24051300-07

Methane (74-82-8)

Reason Code: MIA

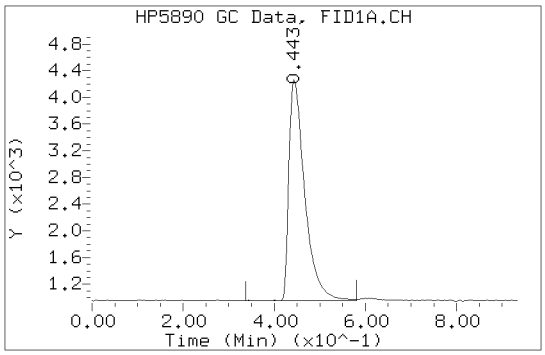
BEFORE

MASS
100
AREA
0
HEIGHT
0
31-May-2024
11:32
ALSHS
Server



AFTER

MASS
100
AREA
8104
HEIGHT
3317
31-May-2024
14:44
ALSHS
Server



Data File: \\NAHSTWS005\Target\chem\FID-4.i\240531.b\017.D Page 1
Report Date: 31-May-2024 16:28

ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\NAHSTWS005\Target\chem\FID-4.i\240531.b\017.D
Lab Smp Id: RSK-CCV Client Smp ID: RSK-CCV
Inj Date : 31-MAY-2024 12:04
Operator : RG 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\240531.b\RSKNI3.m
Meth Date : 31-May-2024 12:13 ryan.guthr Quant Type: ESTD
Cal Date : 01-MAR-2024 11:04 Cal File: 008.D
Als bottle: 17 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: RSK175.sub
Target Version: 4.14

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

					AMOUNTS	
					CAL-AMT	ON-COL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(ug/L)	(ug/L)
1 Methane	0.433	0.433	0.000	10469	9.64700	9.305
2 Ethene	0.636	0.636	0.000	10349	16.8500	14.309
3 Ethane	0.700	0.700	0.000	15266	18.0430	15.205(M)

QC Flag Legend

M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\FID-4.i\240531.b\017.D

Date : 31-MAY-2024 12:04

Client ID: RSK-CCV

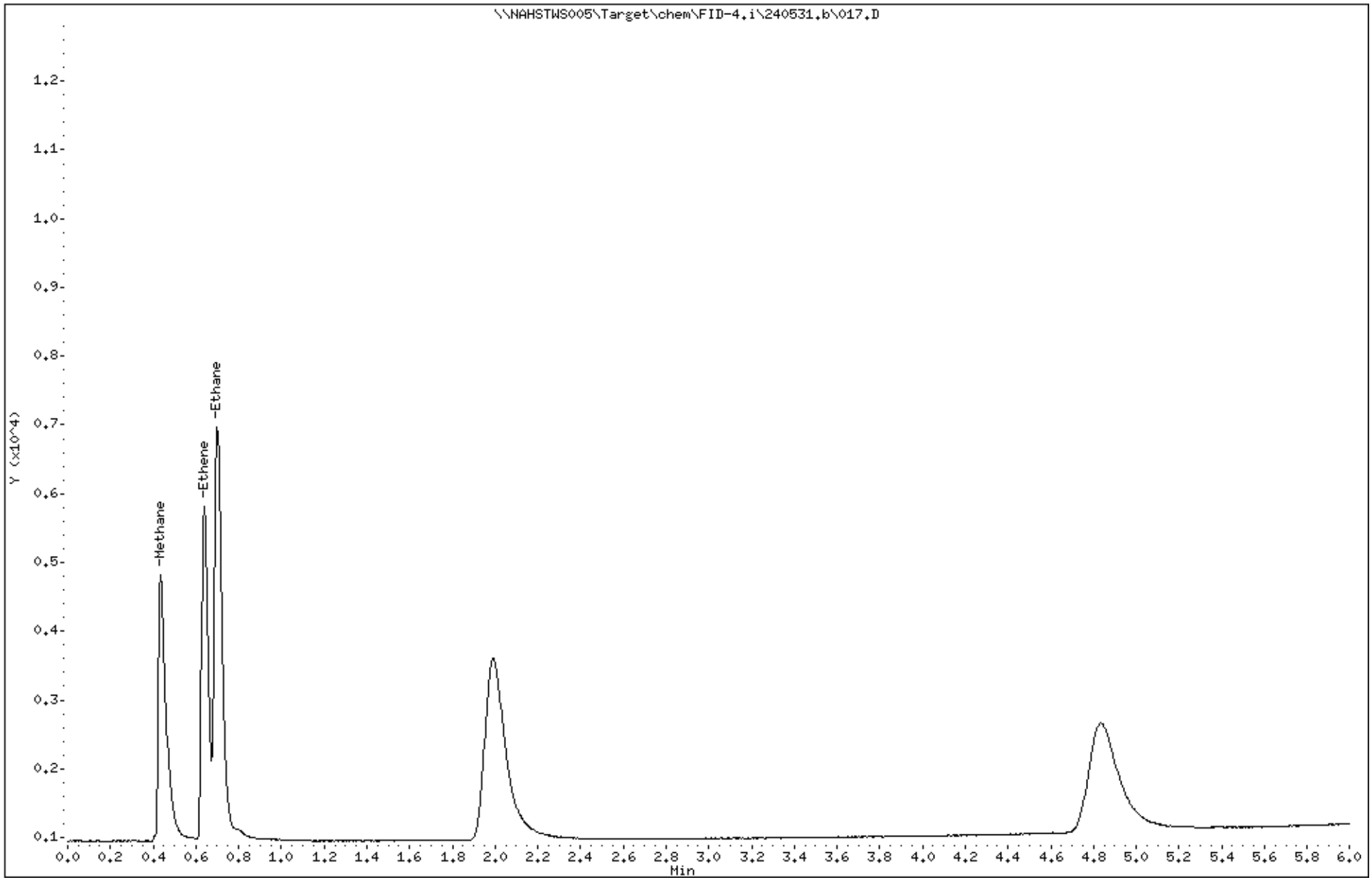
Instrument: FID-4.i

Sample Info: RSK-CCV;RSK-CCV;2;4

Operator: RG

Column phase: Rtx-PLOT

Column diameter: 0.53



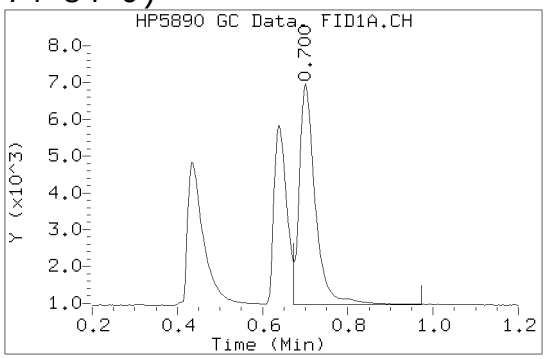
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InstruID : FID-4.i
LabSampID : RSK-CCV

Ethane (74-84-0)

Reason Code:

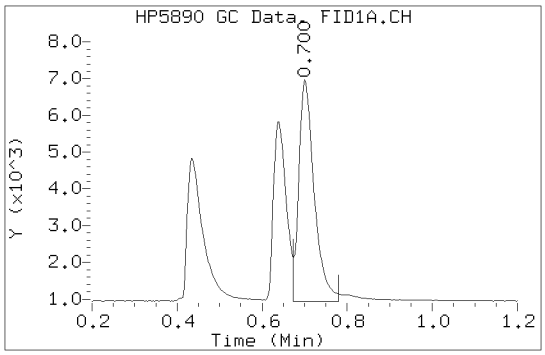
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AREA
15518
HEIGHT
6002
31-May-2024
12:13
ALSHS
Server



AFTER

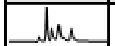
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31-May-2024
16:28
ALSHS
Server



HS24051300 Wetchem 9056_anions_W - A

ALS WO# HS24051300

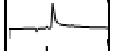
Sequence: 052224
Last Update Operator: ALSHS.NoUser

CD	Name	Comment	Type	Position	Dilution	Level	Instrument Method
	STD1		Calibratio	RA1	1.00	1	Anions Program ISO37mM 150mm short 0.4 Constant current
	STD2		Calibratio	RA2	1.00	2	Anions Program ISO37mM 150mm short 0.4 Constant current
	STD3		Calibratio	RA3	1.00	3	Anions Program ISO37mM 150mm short 0.4 Constant current
	STD4		Calibratio	RA4	1.00	4	Anions Program ISO37mM 150mm short 0.4 Constant current
	STD5		Calibratio	RA5	1.00	5	Anions Program ISO37mM 150mm short 0.4 Constant current
	STD6		Calibratio	RA6	1.00	6	Anions Program ISO37mM 150mm short 0.4 Constant current
	ICV		Unknown	RA7	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	ICB		Unknown	RA8	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	CCV		Unknown	R1	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	CCB		Unknown	R6	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	MBLK	9056-W-SH	Unknown	R5	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	LCS	9056-W-SH	Unknown	R2	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	CCV1		Unknown	R3	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	CCB		Unknown	R7	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	CCV		Unknown	R1	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	CCB		Unknown	R4	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	CCV1		Unknown	R3	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	CCB		Unknown	R7	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24051292-03MS	9056-W-SH	Unknown	RD4	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24051292-03MSD	9056-W-SH	Unknown	RD5	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	CCV		Unknown	R1	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	CCB		Unknown	R4	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24051300-05	9056-W-SH	Unknown	RE5	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24051300-05DF10	9056-W-SH	Unknown	RE6	10.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24051300-06	9056-W-SH	Unknown	RE7	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24051300-06DF10	9056-W-SH	Unknown	RE8	10.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24051300-07	9056-W-SH	Unknown	GA1	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24051300-07DF10	9056-W-SH	Unknown	GA2	10.00		Anions Program ISO37mM 150mm short 0.4 Constant current

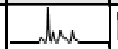
Sequence: 052224
Last Update Operator: ALSHS.NoUser

CD	Name	Comment	Type	Position	Dilution	Level	Instrument Method
	CCV1		Unknown	R3	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	CCB		Unknown	R7	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current

Sequence: 052224
Last Update Operator: ALSHS.NoUser

Processing Method	CD	Name	Volume	Status	Inject Time
Anions Processing Method ISO		STD1	5.0	Finished	4/3/2024 8:55:18 AM -05
Anions Processing Method ISO		STD2	5.0	Finished	4/3/2024 9:01:14 AM -05
Anions Processing Method ISO		STD3	5.0	Finished	4/3/2024 9:07:10 AM -05
Anions Processing Method ISO		STD4	5.0	Finished	4/3/2024 9:13:07 AM -05
Anions Processing Method ISO		STD5	5.0	Finished	4/3/2024 9:19:03 AM -05
Anions Processing Method ISO		STD6	5.0	Finished	4/3/2024 9:24:59 AM -05
Anions Processing Method ISO		ICV	5.0	Finished	4/3/2024 9:36:52 AM -05
Anions Processing Method ISO		ICB	5.0	Finished	4/3/2024 10:21:47 AM -0
Anions Processing Method ISO		CCV	5.0	Finished	5/22/2024 12:45:15 PM -
Anions Processing Method ISO		CCB	5.0	Finished	5/22/2024 12:57:07 PM -
Anions Processing Method ISO		MBLK	5.0	Finished	5/22/2024 1:03:03 PM -0
Anions Processing Method ISO		LCS	5.0	Finished	5/22/2024 1:14:55 PM -0
Anions Processing Method ISO		CCV1	5.0	Finished	5/22/2024 2:20:09 PM -0
Anions Processing Method ISO		CCB	5.0	Finished	5/22/2024 2:26:04 PM -0
Anions Processing Method ISO		CCV	5.0	Finished	5/22/2024 4:00:57 PM -0
Anions Processing Method ISO		CCB	5.0	Finished	5/22/2024 4:18:44 PM -0
Anions Processing Method ISO		CCV1	5.0	Finished	5/22/2024 5:41:41 PM -0
Anions Processing Method ISO		CCB	5.0	Finished	5/22/2024 5:47:36 PM -0
Anions Processing Method ISO		HS24051292-03MS	5.0	Finished	5/22/2024 6:05:23 PM -0
Anions Processing Method ISO		HS24051292-03MSD	5.0	Finished	5/22/2024 6:11:18 PM -0
Anions Processing Method ISO		CCV	5.0	Finished	5/22/2024 7:04:35 PM -0
Anions Processing Method ISO		CCB	5.0	Finished	5/22/2024 7:22:20 PM -0
Anions Processing Method ISO		HS24051300-05	5.0	Finished	5/22/2024 7:28:15 PM -0
Anions Processing Method ISO		HS24051300-05DF10	5.0	Finished	5/22/2024 7:34:10 PM -0
Anions Processing Method ISO		HS24051300-06	5.0	Finished	5/22/2024 7:40:05 PM -0
Anions Processing Method ISO		HS24051300-06DF10	5.0	Finished	5/22/2024 7:46:00 PM -0
Anions Processing Method ISO		HS24051300-07	5.0	Finished	5/22/2024 7:51:55 PM -0
Anions Processing Method ISO		HS24051300-07DF10	5.0	Finished	5/22/2024 7:57:50 PM -0

Sequence: 052224
Last Update Operator: ALSHS.NoUser

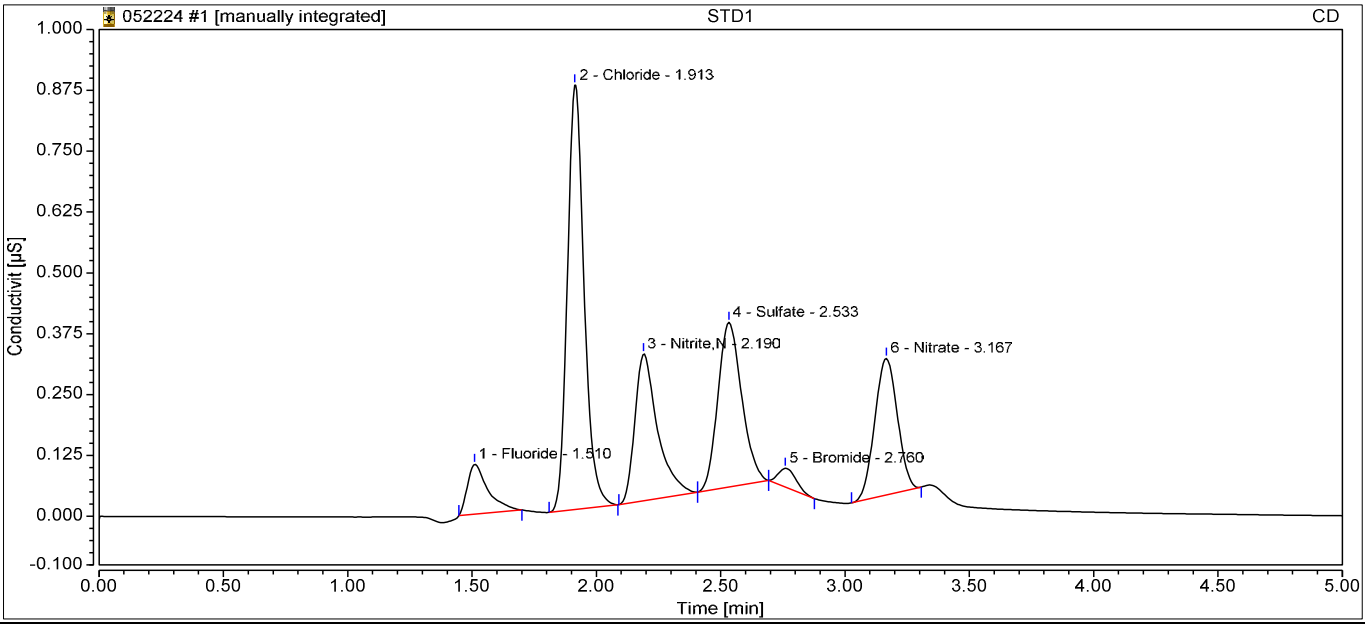
Processing Method	CD	Name	Volume	Status	Inject Time
Anions Processing Method ISO		CCV1	5.0	Finished	5/22/2024 8:21:30 PM -0
Anions Processing Method ISO		CCB	5.0	Finished	5/22/2024 8:33:20 PM -0

Peak No.	Peak Name	Cal.Type	Eval.Type	Number of Points	Rel.Std.Dev. %	Coeff.of Determination	C0 (Offset)	C1 (Slope)	C2 (Curve)
1	Fluoride	Lin, WithOffset, 1/A	Area	6	20.6898	0.99843	-0.0146	0.1949	0.0000
2	Chloride	Lin, WithOffset, 1/A	Area	6	4.4996	0.99990	-0.0096	0.1522	0.0000
3	Nitrite,N	Quad, WithOffset, 1/A	Area	6	2.8239	0.99996	-0.0010	0.3209	-0.0035
4	***Sulfate***	***Quad, WithOffset, 1/A***	***Area***	***6***	***6.9024***	***0.99984***	***-0.0083***	***0.0870***	***0.0001***
5	Bromide	Quad, WithOffset, 1/A	Area	6	1.5271	0.99999	-0.0001	0.0340	0.0003
6	Nitrate	Lin, WithOffset, 1/A	Area	6	5.7942	0.99983	-0.0032	0.3234	0.0000
7	Chlorate	Quad, WithOffset, 1/A	Area	5	8.9029	0.99911	-0.0026	0.0210	-0.0003
n.a.	Phosphate	Lin, WithOffset, 1/A	Area	2	n.a.	1.00000	-0.0564	0.0307	0.0000
Maximum					**20.6898**	1.00000			
Minimum					1.5271	**0.99843**			

1 STD1

Sample Name:	**STD1**	*Injection Volume:*	**5.00**
Vial Number:	**RA1**	*Channel:*	**CD**
Sample Type:	**Calibration Standard**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**04/03/2024 08:55**	*Sample Weight:*	**1.0000**

Run Time:



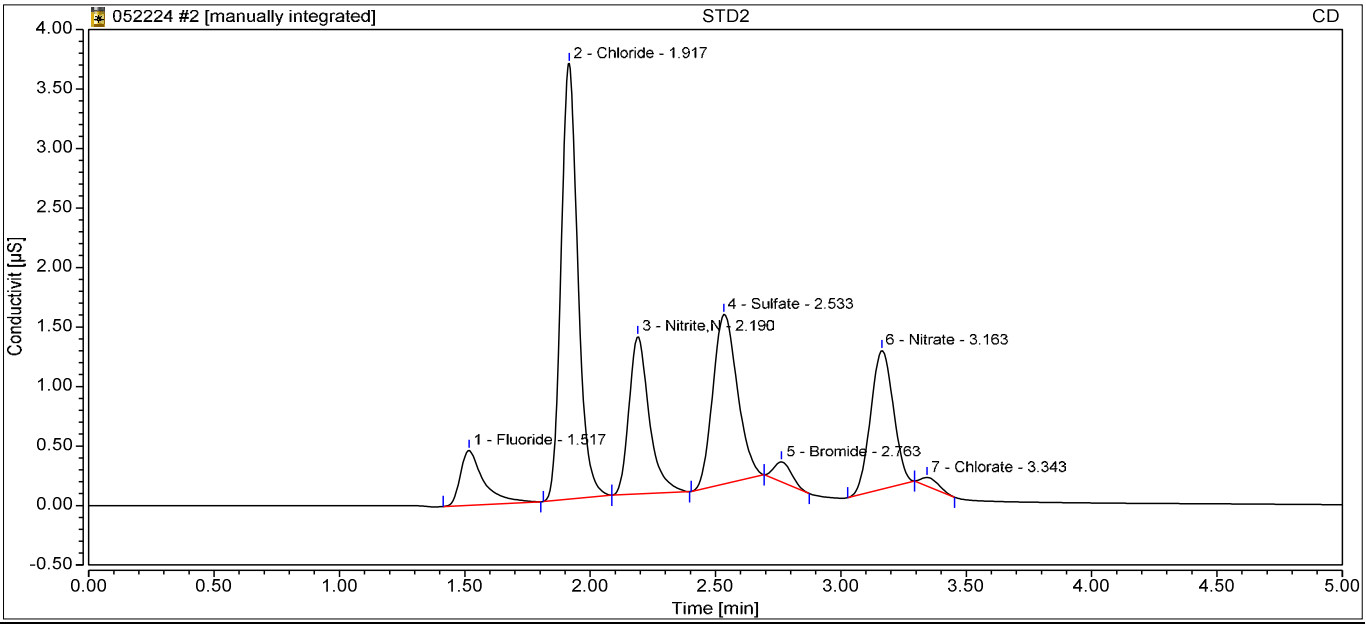
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.51	Fluoride	BMB*	0.010	0.1255	0.1255	1.0000
2	1.91	Chloride	BMB	0.068	0.5104	0.5104	1.0000
3	2.19	Nitrite,N	BMB	0.032	0.1022	0.1022	1.0000
4	2.53	Sulfate	BMB	0.037	0.5258	0.5258	1.0000
5	2.76	Bromide	BMB	0.003	0.0977	0.0977	1.0000
6	3.17	Nitrate	BMB	0.030	0.1018	0.1018	1.0000
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**0.180**		**1.46**	

2 STD2

Sample Name:	**STD2**	*Injection Volume:*	**5.00**
Vial Number:	**RA2**	*Channel:*	**CD**
Sample Type:	**Calibration Standard**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**04/03/2024 09:01**	*Sample Weight:*	**1.0000**

Run Time:



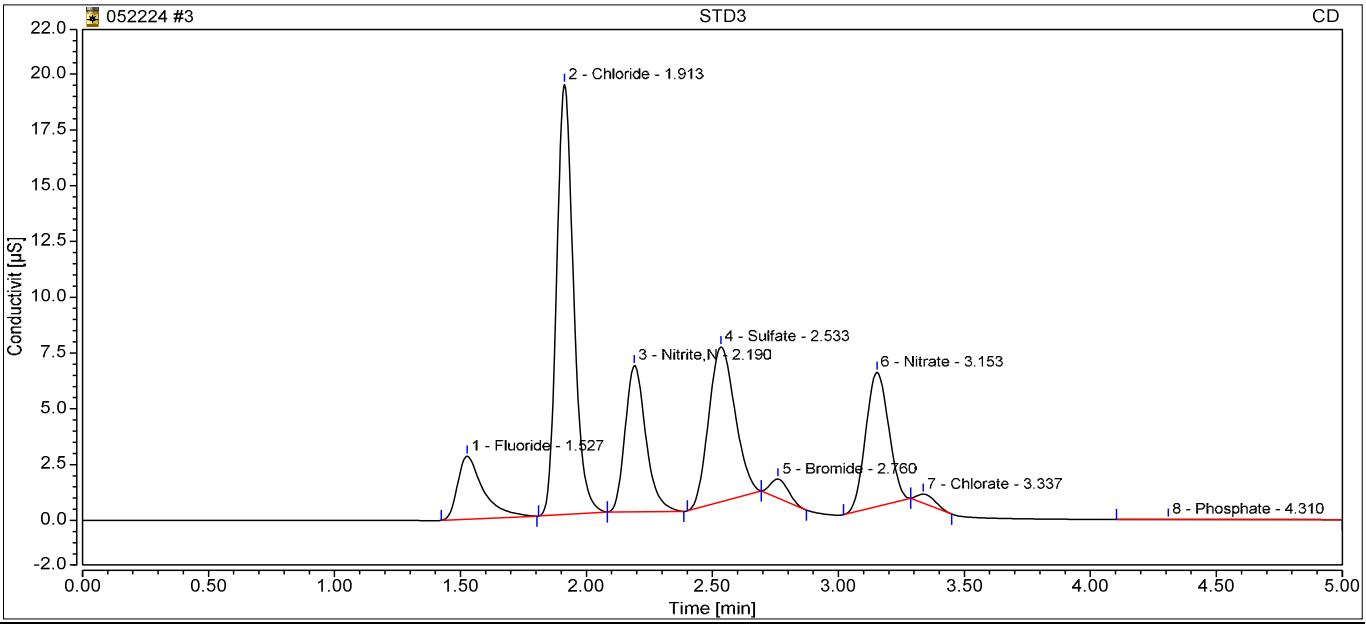
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.52	Fluoride	BMB*	0.050	0.3309	0.3309	1.0000
2	1.92	Chloride	BMB	0.285	1.9321	1.9321	1.0000
3	2.19	Nitrite,N	BMB	0.124	0.3897	0.3897	1.0000
4	2.53	Sulfate	BMB	0.162	1.9522	1.9522	1.0000
5	2.76	Bromide	BMB	0.014	0.4090	0.4090	1.0000
6	3.16	Nitrate	BMB	0.122	0.3886	0.3886	1.0000
7	3.34	Chlorate	BMB	0.006	0.4212	0.4212	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**0.762**		**5.82**	

3 STD3

Sample Name:	**STD3**	*Injection Volume:*	**5.00**
Vial Number:	**RA3**	*Channel:*	**CD**
Sample Type:	**Calibration Standard**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**04/03/2024 09:07**	*Sample Weight:*	**1.0000**

Run Time:



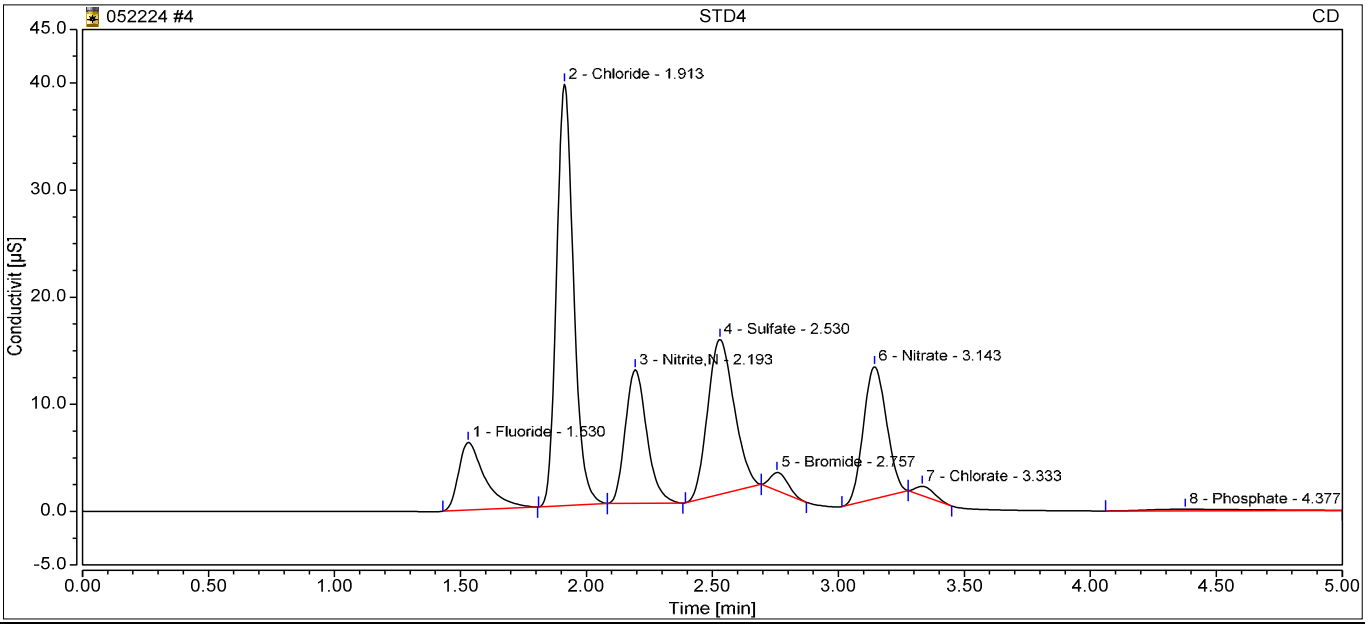
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.53	Fluoride	BMB	0.332	1.7778	1.7778	1.0000
2	1.91	Chloride	BMB	1.504	9.9432	9.9432	1.0000
3	2.19	Nitrite,N	BMB	0.625	1.9938	1.9938	1.0000
4	2.53	Sulfate	BMB	0.839	9.6367	9.6367	1.0000
5	2.76	Bromide	BMB	0.070	2.0082	2.0082	1.0000
6	3.15	Nitrate	BMB	0.637	1.9783	1.9783	1.0000
7	3.34	Chlorate	BMB	0.035	1.8534	1.8534	1.0000
8	4.31	Phosphate	BMB	0.005	2.0000	2.0000	1.0000
Total:			**0.000**	**4.046**		**31.19**	

4 STD4

Sample Name:	**STD4**	*Injection Volume:*	**5.00**
Vial Number:	**RA4**	*Channel:*	**CD**
Sample Type:	**Calibration Standard**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**04/03/2024 09:13**	*Sample Weight:*	**1.0000**

Run Time:



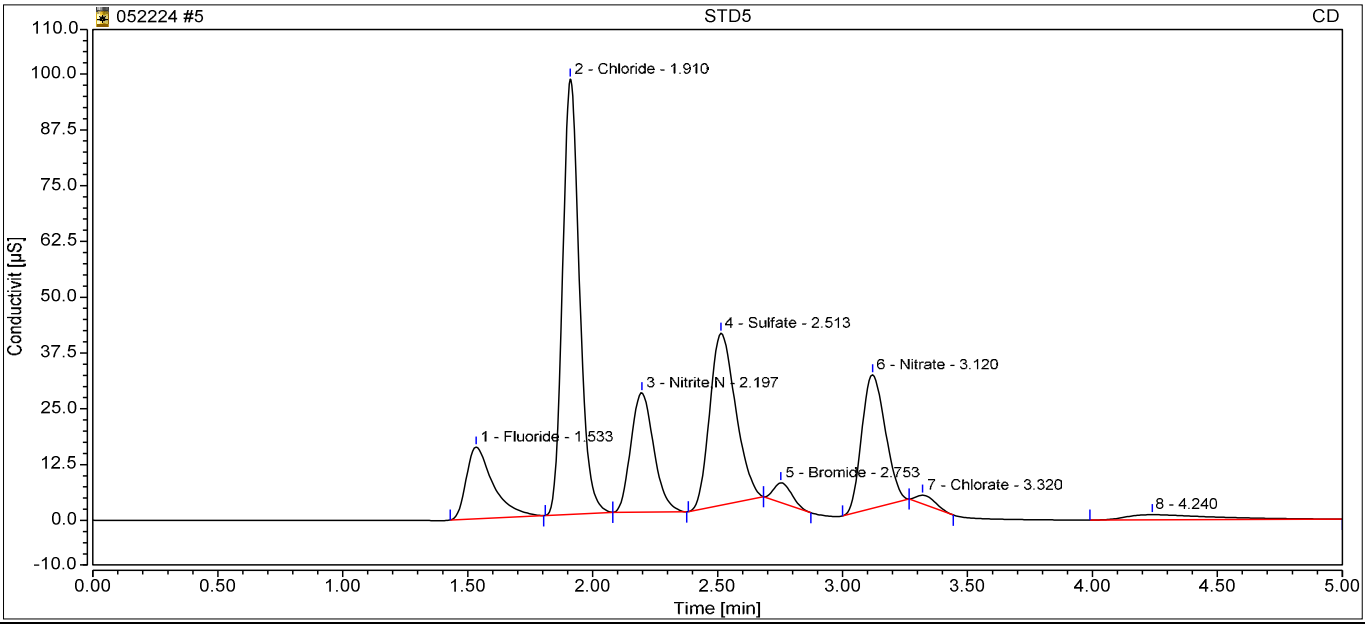
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.53	Fluoride	BMB	0.765	3.9993	3.9993	1.0000
2	1.91	Chloride	BMB	3.084	20.3219	20.3219	1.0000
3	2.19	Nitrite,N	BMB	1.239	4.0454	4.0454	1.0000
4	2.53	Sulfate	BMB	1.763	19.9326	19.9326	1.0000
5	2.76	Bromide	BMB	0.141	3.9866	3.9866	1.0000
6	3.14	Nitrate	BMB	1.311	4.0629	4.0629	1.0000
7	3.33	Chlorate	BMB	0.077	4.0038	4.0038	1.0000
8	4.38	Phosphate	BMB	0.067	4.0000	4.0000	1.0000
Total:			**0.000**	**8.445**		**64.35**	

5 STD5

Sample Name:	**STD5**	*Injection Volume:*	**5.00**
Vial Number:	**RA5**	*Channel:*	**CD**
Sample Type:	**Calibration Standard**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**04/03/2024 09:19**	*Sample Weight:*	**1.0000**

Run Time:



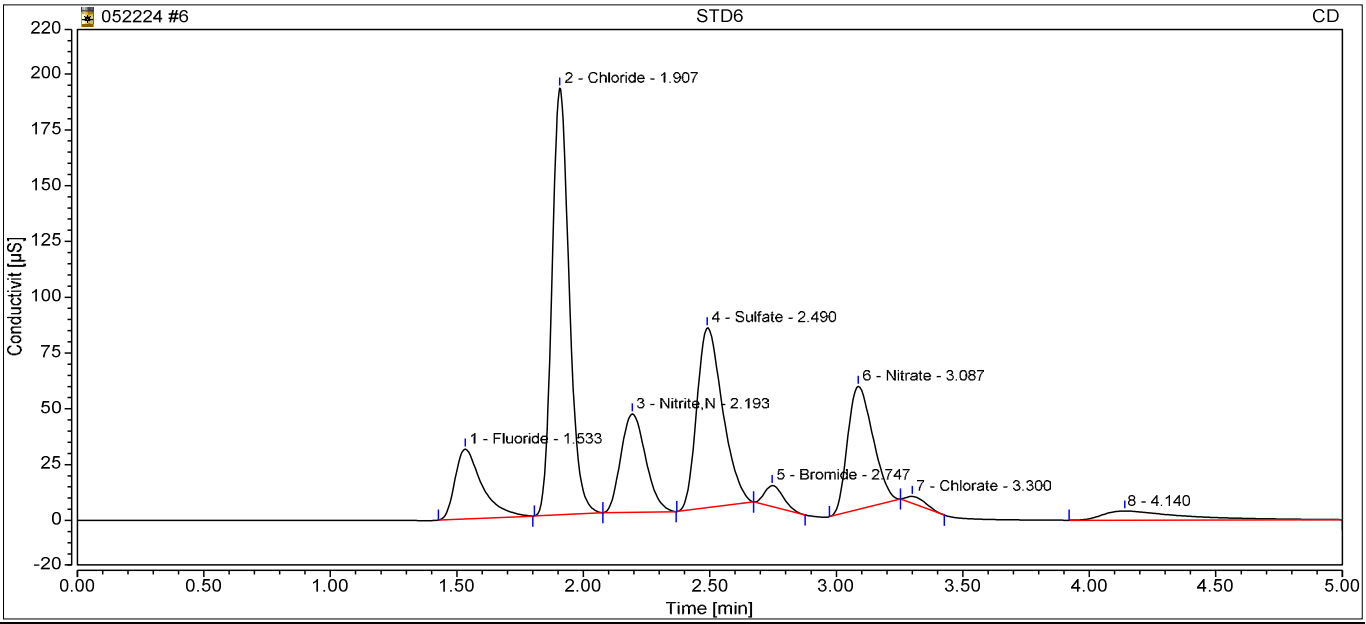
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.53	Fluoride	BMB	1.995	10.3144	10.3144	1.0000
2	1.91	Chloride	BMB	7.673	50.4728	50.4728	1.0000
3	2.20	Nitrite,N	BMB	2.842	9.9493	9.9493	1.0000
4	2.51	Sulfate	BMB	4.641	50.7445	50.7445	1.0000
5	2.75	Bromide	BMB	0.373	9.9956	9.9956	1.0000
6	3.12	Nitrate	BMB	3.281	10.1555	10.1555	1.0000
7	3.32	Chlorate	BMB	0.181	10.2906	10.2906	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**20.986**		**151.92**	

6 STD6

Sample Name:	**STD6**	*Injection Volume:*	**5.00**
Vial Number:	**RA6**	*Channel:*	**CD**
Sample Type:	**Calibration Standard**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**04/03/2024 09:24**	*Sample Weight:*	**1.0000**

Run Time:

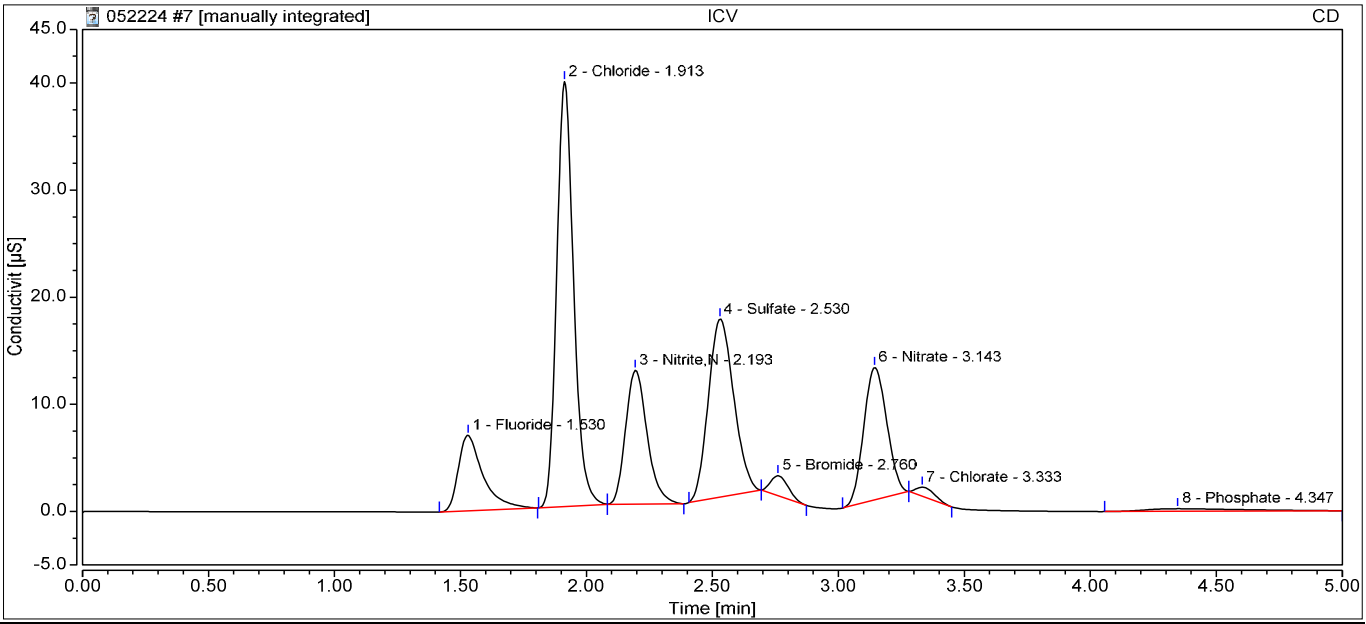


Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.53	Fluoride	BMB	3.873	19.9521	19.9521	1.0000
2	1.91	Chloride	BMB	15.108	99.3195	99.3195	1.0000
3	2.19	Nitrite,N	BMB	5.009	20.0220	20.0220	1.0000
4	2.49	Sulfate	BMB	9.566	99.7024	99.7024	1.0000
5	2.75	Bromide	BMB	0.814	20.0032	20.0032	1.0000
6	3.09	Nitrate	BMB	6.404	19.8130	19.8130	1.0000
7	3.30	Chlorate	BMB	0.290	19.7813	19.7813	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**41.065**		**298.59**	

7 ICV			
Sample Name:	**ICV**	*Injection Volume:*	**5.00**
Vial Number:	**RA7**	*Channel:*	**CD**
Sample Type:	**Unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**04/03/2024 09:36**	*Sample Weight:*	**1.0000**

Run Time:



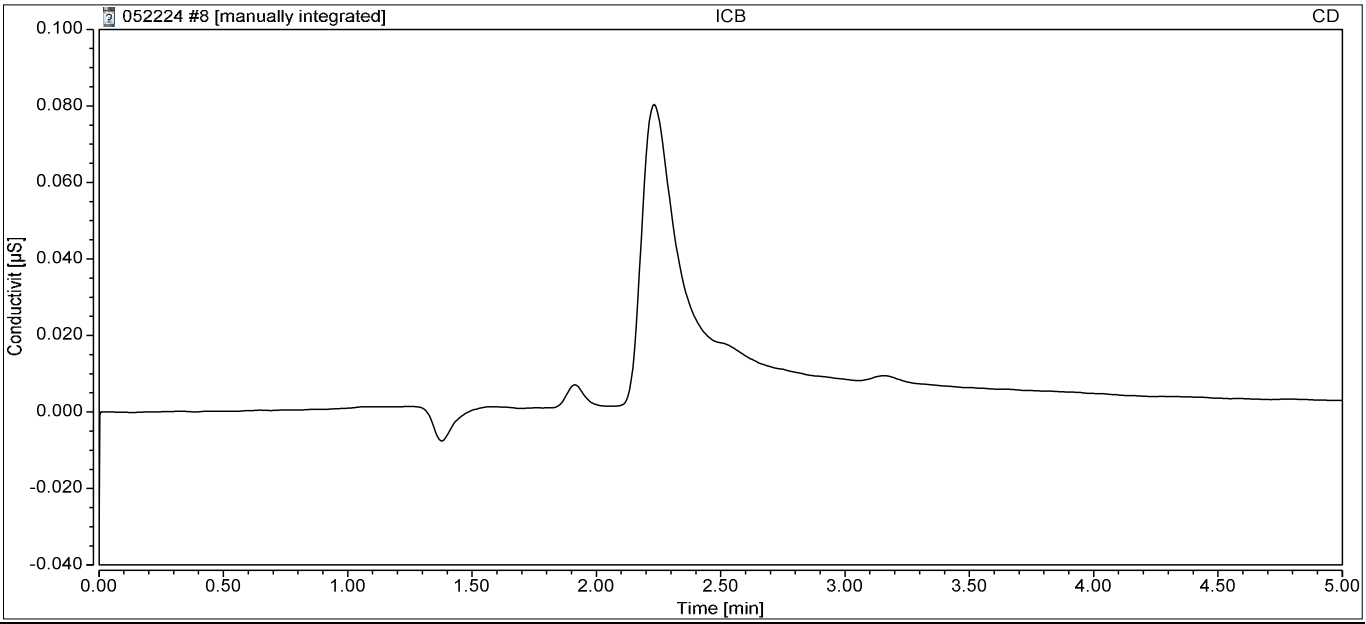
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.53	Fluoride	BMB	0.804	4.1985	4.1985	1.0000
2	1.91	Chloride	BMB	3.080	20.2963	20.2963	1.0000
3	2.19	Nitrite,N	BMB	1.241	4.0504	4.0504	1.0000
4	2.53	Sulfate	BMB*	1.942	21.9080	21.9080	1.0000
5	2.76	Bromide	BMB	0.153	4.3302	4.3302	1.0000
6	3.14	Nitrate	BMB	1.314	4.0742	4.0742	1.0000
7	3.33	Chlorate	BMB	0.075	3.9407	3.9407	1.0000
8	4.35	Phosphate	BMB	0.109	5.3705	5.3705	1.0000
Total:			**0.000**	**8.718**		**68.17**	

8 ICB

Sample Name:	**ICB**	*Injection Volume:*	**5.00**
Vial Number:	**RA8**	*Channel:*	**CD**
Sample Type:	**Unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**04/03/2024 10:21**	*Sample Weight:*	**1.0000**

Run Time:



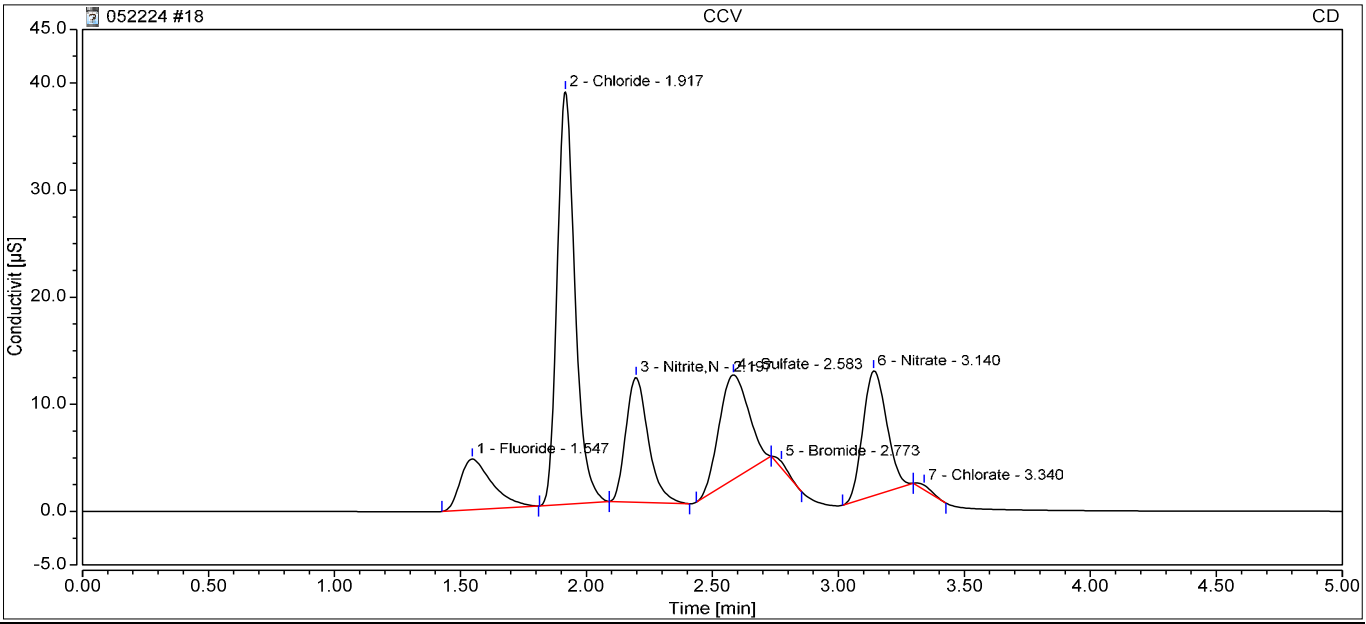
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
n.a.	n.a.	Fluoride	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Chloride	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Nitrite,N	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Sulfate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**0.000**		**0.00**	

18 CCV

Sample Name:	**CCV**	*Injection Volume:*	**5.00**
Vial Number:	**R1**	*Channel:*	**CD**
Sample Type:	**Unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**05/22/2024 12:45**	*Sample Weight:*	**1.0000**

Run Time:



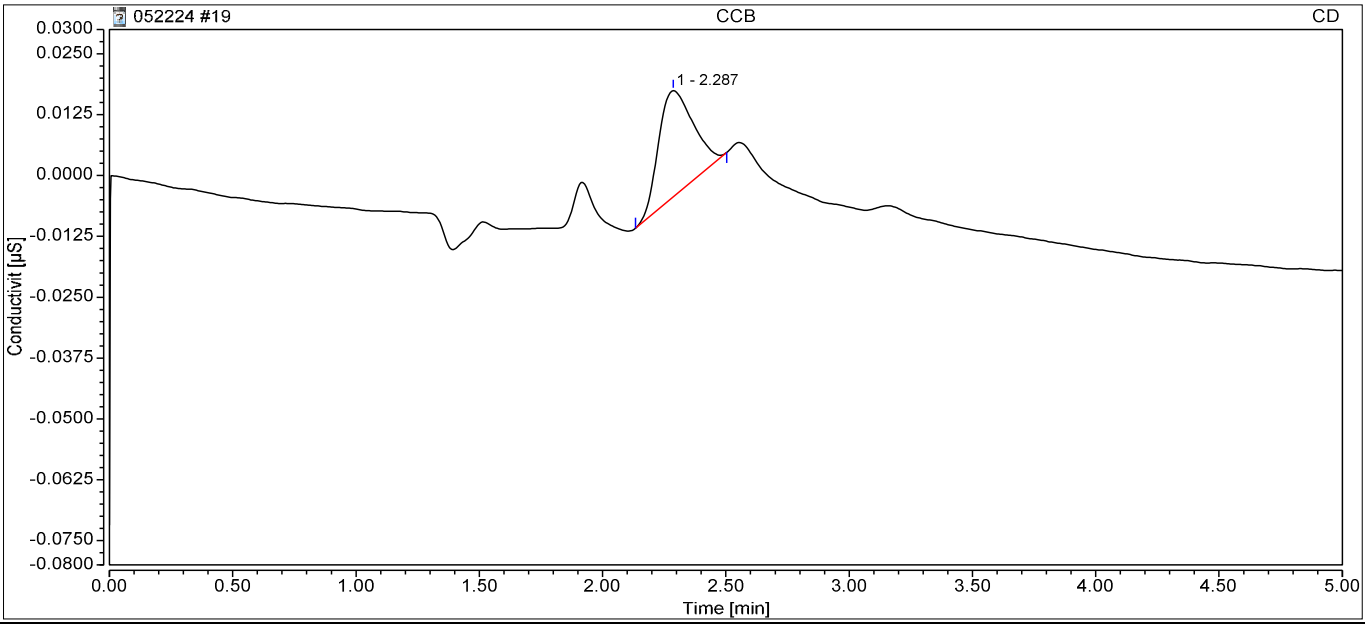
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.55	Fluoride	BMB	0.693	3.6306	3.6306	1.0000
2	1.92	Chloride	BMB	3.169	20.8838	20.8838	1.0000
3	2.20	Nitrite,N	BMB	1.206	3.9301	3.9301	1.0000
4	2.58	Sulfate	BMB	1.318	15.0005	15.0005	1.0000
5	2.77	Bromide	BMB	0.034	0.9895	0.9895	1.0000
6	3.14	Nitrate	BMB	1.275	3.9526	3.9526	1.0000
7	3.34	Chlorate	BMB	0.028	1.5126	1.5126	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**7.723**		**49.90**	

19 CCB

Sample Name:	**CCB**	*Injection Volume:*	**5.00**
Vial Number:	**R6**	*Channel:*	**CD**
Sample Type:	**Unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**05/22/2024 12:57**	*Sample Weight:*	**1.0000**

Run Time:



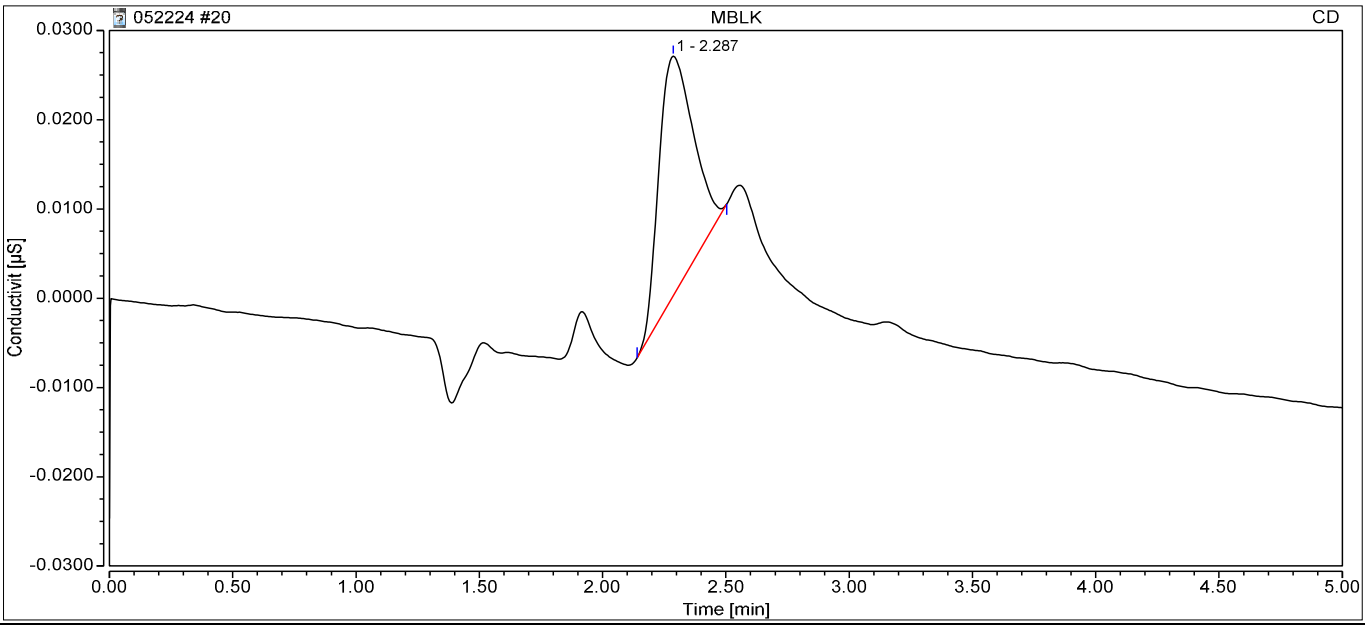
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
n.a.	n.a.	Fluoride	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Chloride	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Nitrite,N	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Sulfate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**0.000**		**0.00**	

20 MBLK

Sample Name:	**MBLK**	*Injection Volume:*	**5.00**
Vial Number:	**R5**	*Channel:*	**CD**
Sample Type:	**Unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**05/22/2024 13:03**	*Sample Weight:*	**1.0000**

Run Time:



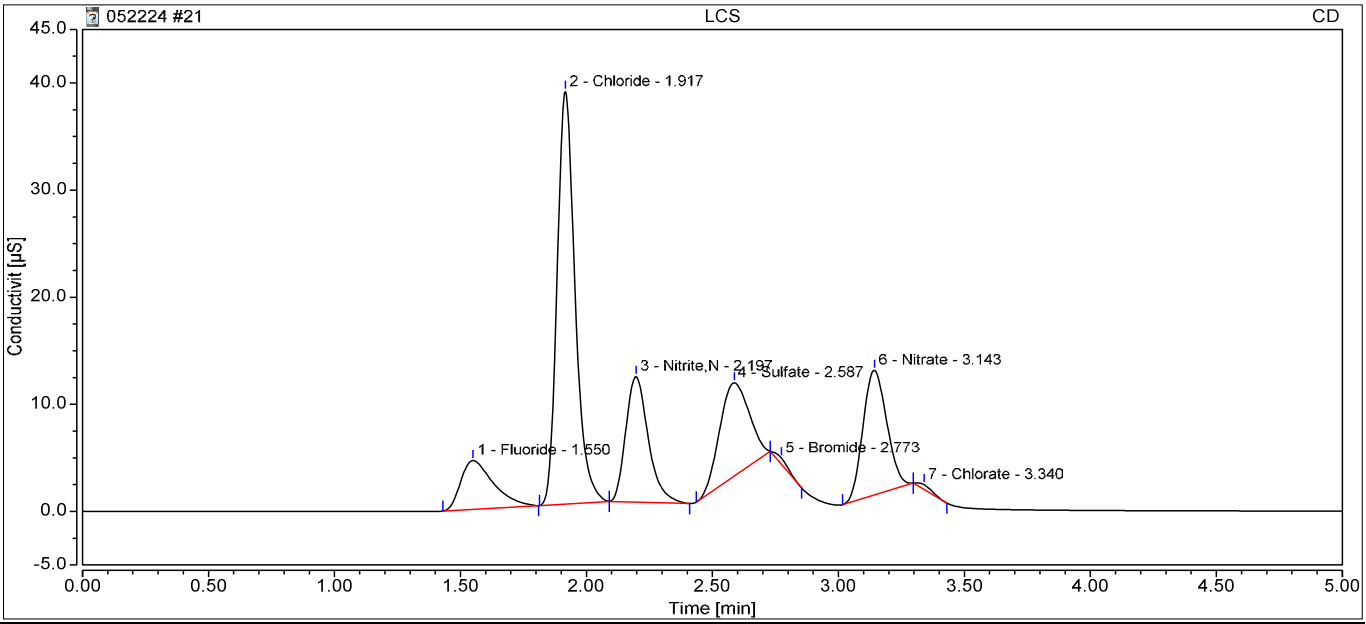
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
n.a.	n.a.	Fluoride	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Chloride	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Nitrite,N	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Sulfate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**0.000**		**0.00**	

21 LCS

Sample Name:	**LCS**	*Injection Volume:*	**5.00**
Vial Number:	**R2**	*Channel:*	**CD**
Sample Type:	**Unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**05/22/2024 13:14**	*Sample Weight:*	**1.0000**

Run Time:



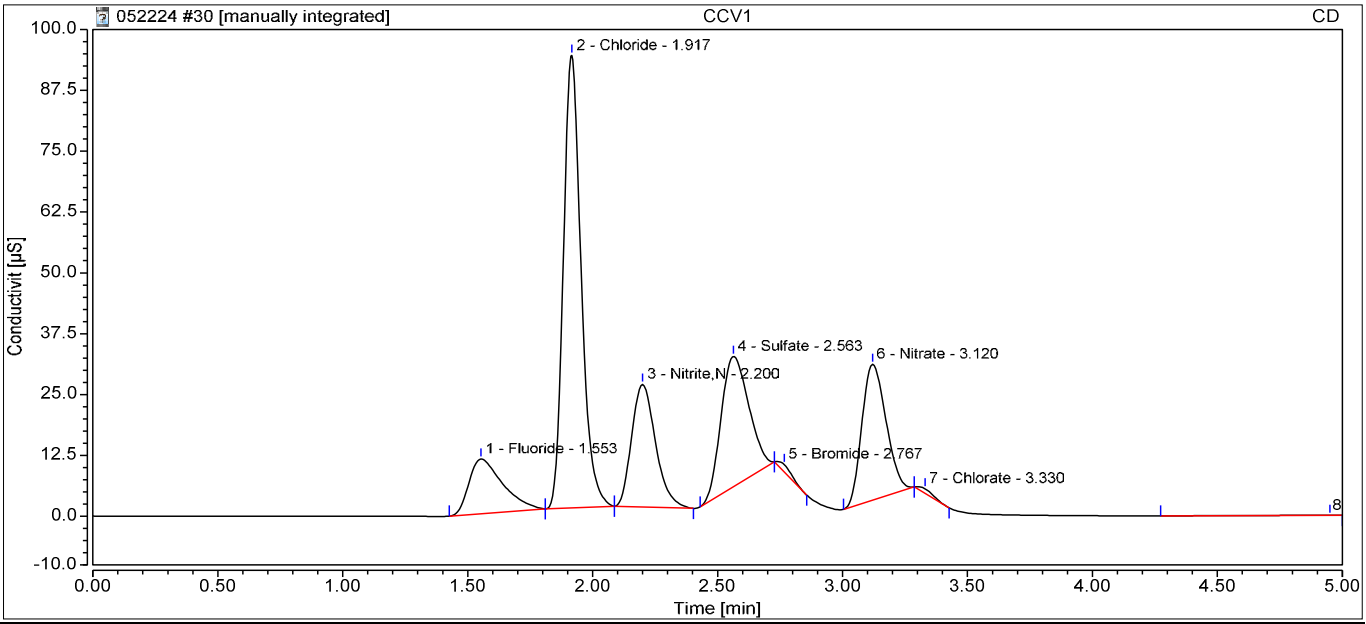
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.55	Fluoride	BMB	0.687	3.5982	3.5982	1.0000
2	1.92	Chloride	BMB	3.174	20.9140	20.9140	1.0000
3	2.20	Nitrite,N	BMB	1.214	3.9598	3.9598	1.0000
4	2.59	Sulfate	BMB	1.183	13.5012	13.5012	1.0000
5	2.77	Bromide	BMB	0.036	1.0433	1.0433	1.0000
6	3.14	Nitrate	BMB	1.275	3.9532	3.9532	1.0000
7	3.34	Chlorate	BMB	0.030	1.5896	1.5896	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**7.599**		**48.56**	

30 CCV1

Sample Name:	**CCV1**	*Injection Volume:*	**5.00**
Vial Number:	**R3**	*Channel:*	**CD**
Sample Type:	**Unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**05/22/2024 14:20**	*Sample Weight:*	**1.0000**

Run Time:



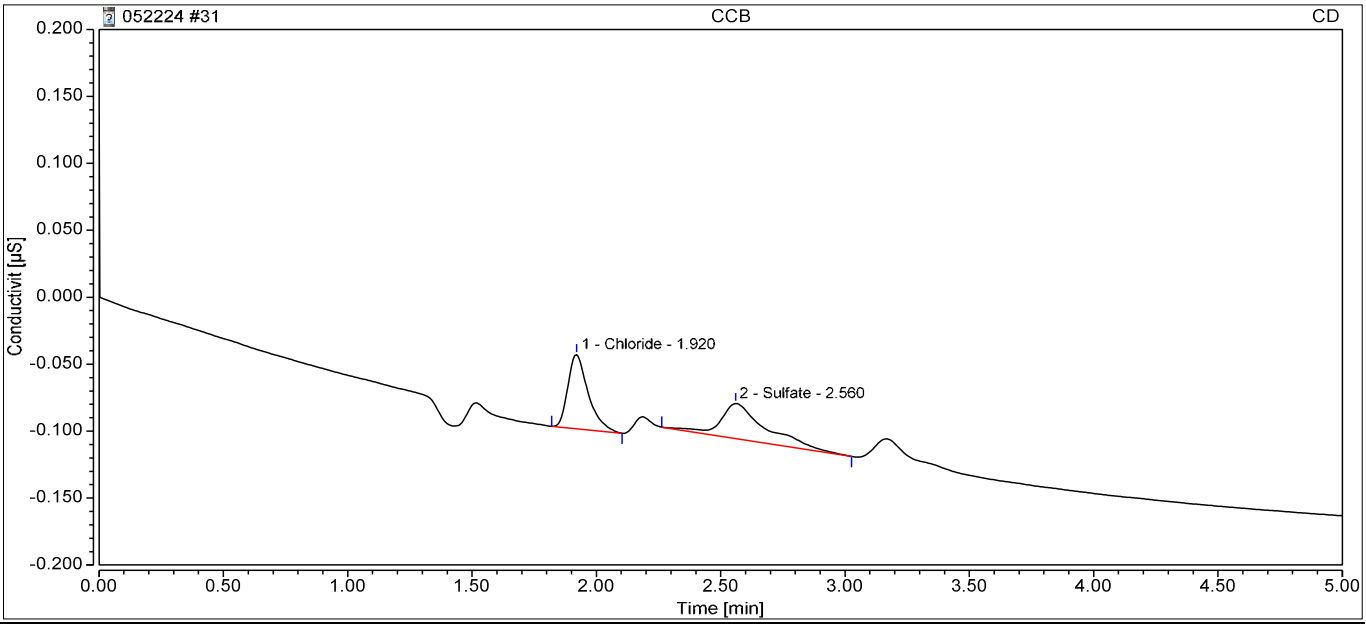
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.55	Fluoride	BMB*	1.752	9.0641	9.0641	1.0000
2	1.92	Chloride	BMB	7.660	50.3898	50.3898	1.0000
3	2.20	Nitrite,N	BMB	2.790	9.7402	9.7402	1.0000
4	2.56	Sulfate	BMB	3.425	37.9566	37.9566	1.0000
5	2.77	Bromide	BMB	0.094	2.7058	2.7058	1.0000
6	3.12	Nitrate	BMB	3.125	9.6738	9.6738	1.0000
7	3.33	Chlorate	BMB	0.064	3.3280	3.3280	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**18.910**		**122.86**	

31 CCB

Sample Name:	**CCB**	*Injection Volume:*	**5.00**
Vial Number:	**R7**	*Channel:*	**CD**
Sample Type:	**Unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**05/22/2024 14:26**	*Sample Weight:*	**1.0000**

Run Time:



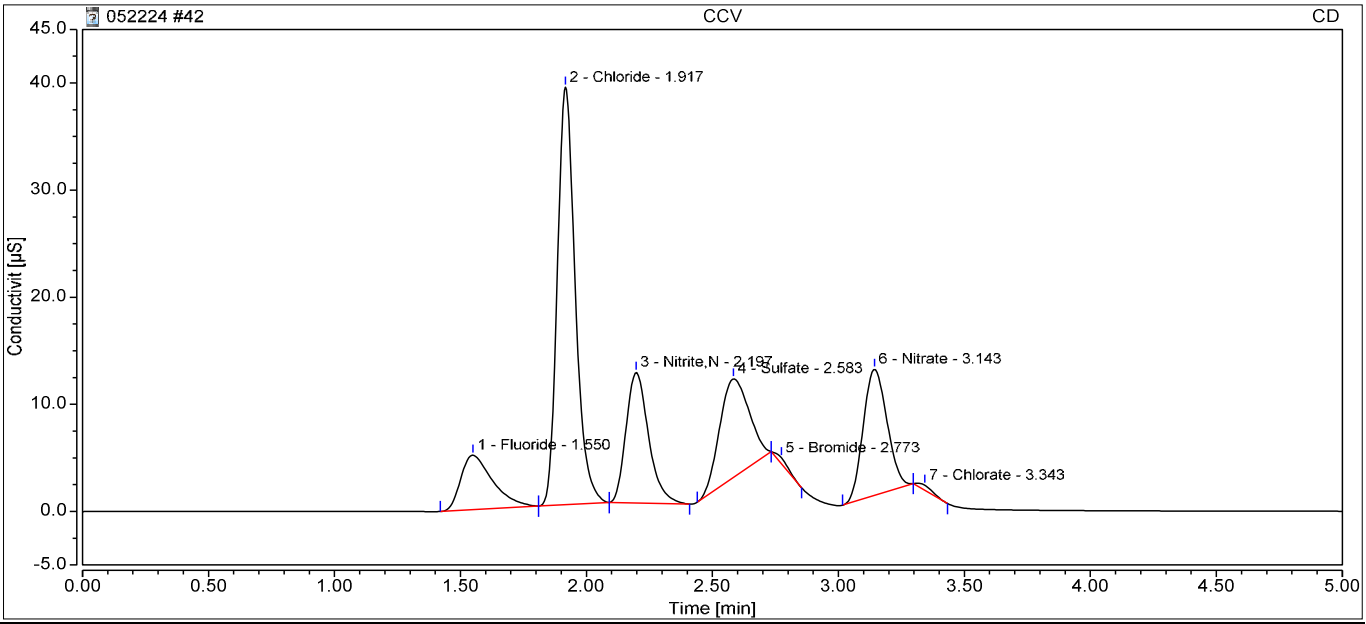
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
n.a.	n.a.	Fluoride	n.a.	n.a.	n.a.	n.a.	1.0000
1	1.92	Chloride	BMB	0.005	0.0975	0.0975	1.0000
n.a.	n.a.	Nitrite,N	n.a.	n.a.	n.a.	n.a.	1.0000
2	2.56	Sulfate	BMB	0.006	0.1600	0.1600	1.0000
n.a.	n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**0.011**		**0.26**	

42 CCV

Sample Name:	**CCV**	*Injection Volume:*	**5.00**
Vial Number:	**R1**	*Channel:*	**CD**
Sample Type:	**Unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**05/22/2024 16:00**	*Sample Weight:*	**1.0000**

Run Time:



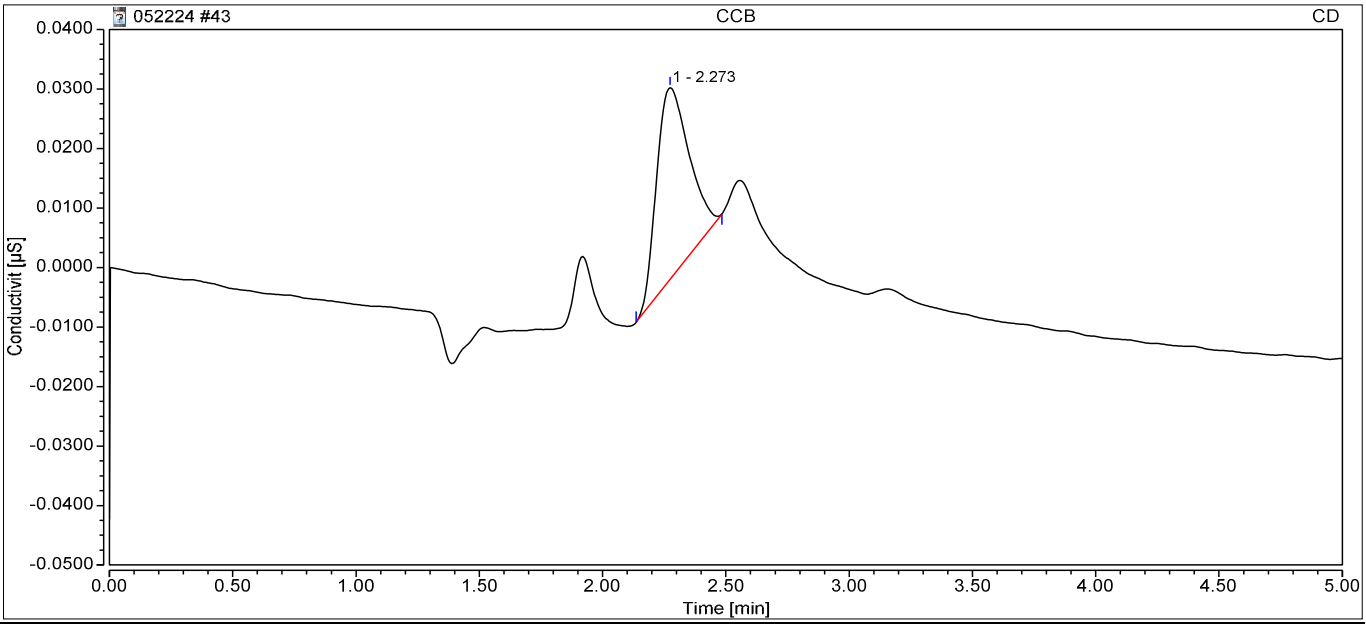
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.55	Fluoride	BMB	0.746	3.9031	3.9031	1.0000
2	1.92	Chloride	BMB	3.214	21.1777	21.1777	1.0000
3	2.20	Nitrite,N	BMB	1.268	4.1434	4.1434	1.0000
4	2.58	Sulfate	BMB	1.244	14.1741	14.1741	1.0000
5	2.77	Bromide	BMB	0.033	0.9685	0.9685	1.0000
6	3.14	Nitrate	BMB	1.292	4.0056	4.0056	1.0000
7	3.34	Chlorate	BMB	0.033	1.7280	1.7280	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**7.829**		**50.10**	

43 CCB

Sample Name:	**CCB**	*Injection Volume:*	**5.00**
Vial Number:	**R4**	*Channel:*	**CD**
Sample Type:	**Unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**05/22/2024 16:18**	*Sample Weight:*	**1.0000**

Run Time:



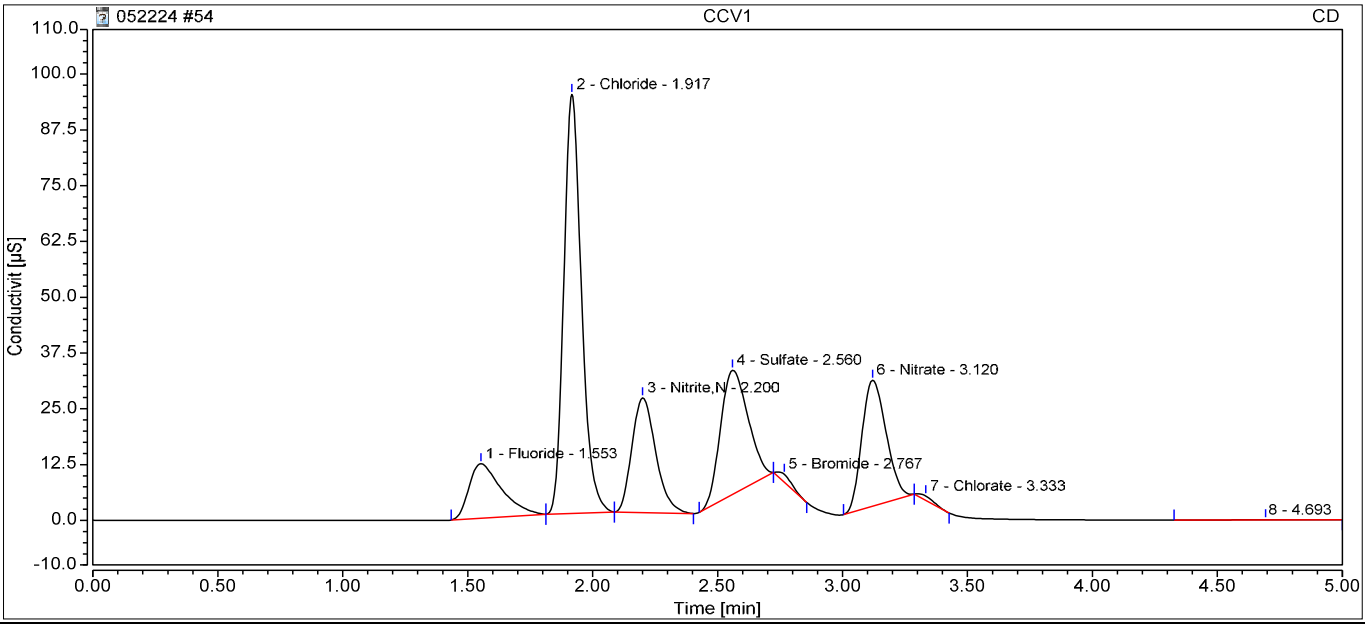
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
n.a.	n.a.	Fluoride	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Chloride	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Nitrite,N	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Sulfate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**0.000**		**0.00**	

54 CCV1

Sample Name:	**CCV1**	*Injection Volume:*	**5.00**
Vial Number:	**R3**	*Channel:*	**CD**
Sample Type:	**Unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**05/22/2024 17:41**	*Sample Weight:*	**1.0000**

Run Time:



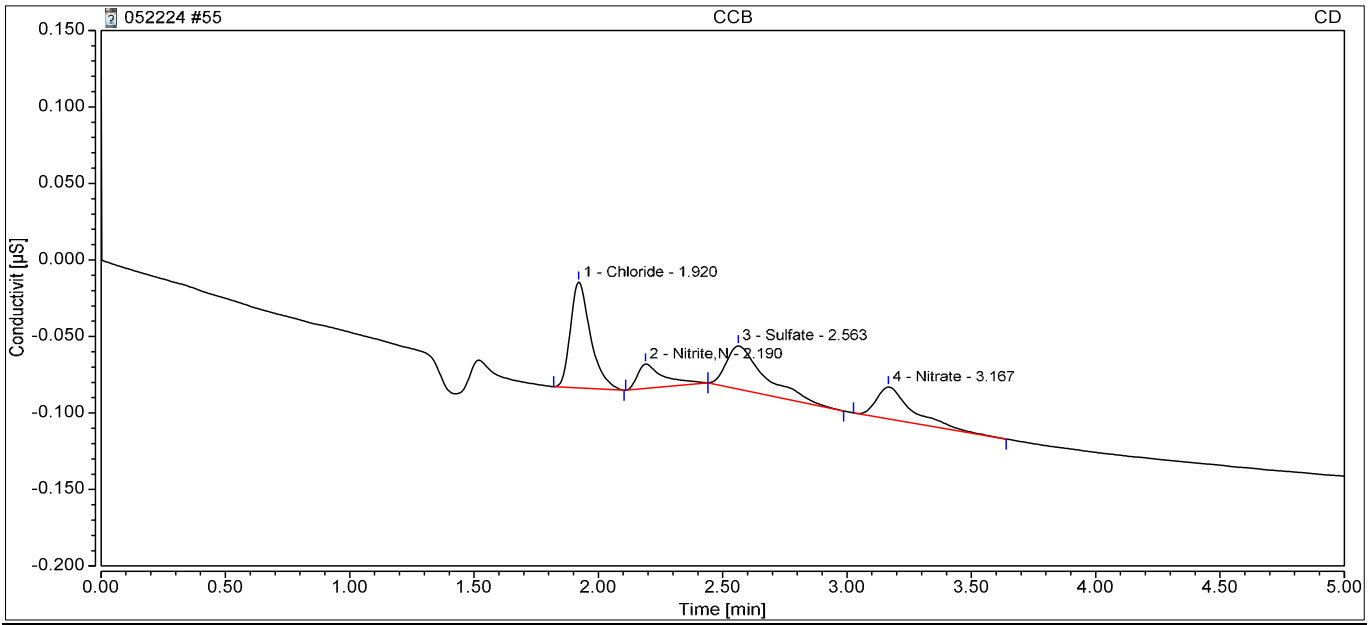
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.55	Fluoride	BMB	1.837	9.5047	9.5047	1.0000
2	1.92	Chloride	BMB	7.716	50.7569	50.7569	1.0000
3	2.20	Nitrite,N	BMB	2.840	9.9418	9.9418	1.0000
4	2.56	Sulfate	BMB	3.545	39.2314	39.2314	1.0000
5	2.77	Bromide	BMB	0.114	3.2413	3.2413	1.0000
6	3.12	Nitrate	BMB	3.167	9.8040	9.8040	1.0000
7	3.33	Chlorate	BMB	0.068	3.5217	3.5217	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**19.288**		**126.00**	

55 CCB

Sample Name:	**CCB**	*Injection Volume:*	**5.00**
Vial Number:	**R7**	*Channel:*	**CD**
Sample Type:	**Unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**05/22/2024 17:47**	*Sample Weight:*	**1.0000**

Run Time:



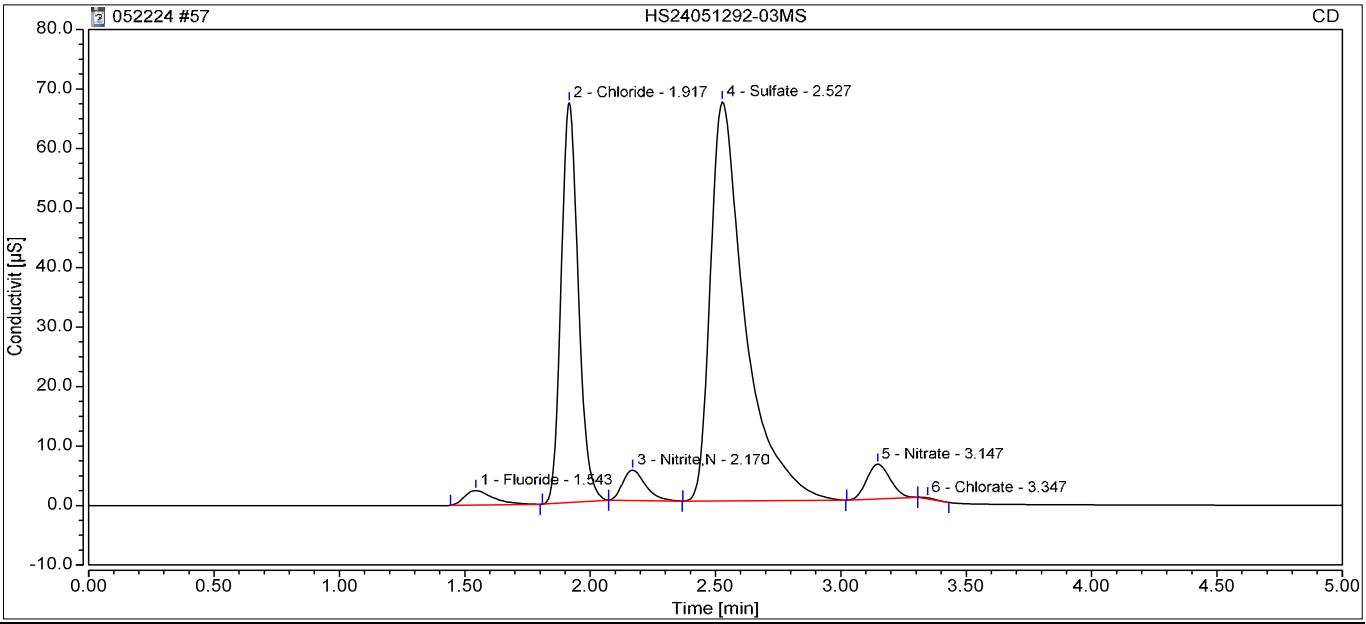
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
n.a.	n.a.	Fluoride	n.a.	n.a.	n.a.	n.a.	1.0000
1	1.92	Chloride	BMB	0.006	0.1056	0.1056	1.0000
2	2.19	Nitrite,N	BMB	0.002	0.0091	0.0091	1.0000
3	2.56	Sulfate	BMB	0.005	0.1548	0.1548	1.0000
n.a.	n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	1.0000
4	3.17	Nitrate	BMB	0.003	0.0206	0.0206	1.0000
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**0.017**		**0.29**	

57 HS24051292-03MS

Sample Name:	**HS24051292-03MS**	*Injection Volume:*	**5.00**
Vial Number:	**RD4**	*Channel:*	**CD**
Sample Type:	**Unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**05/22/2024 18:05**	*Sample Weight:*	**1.0000**

Run Time:



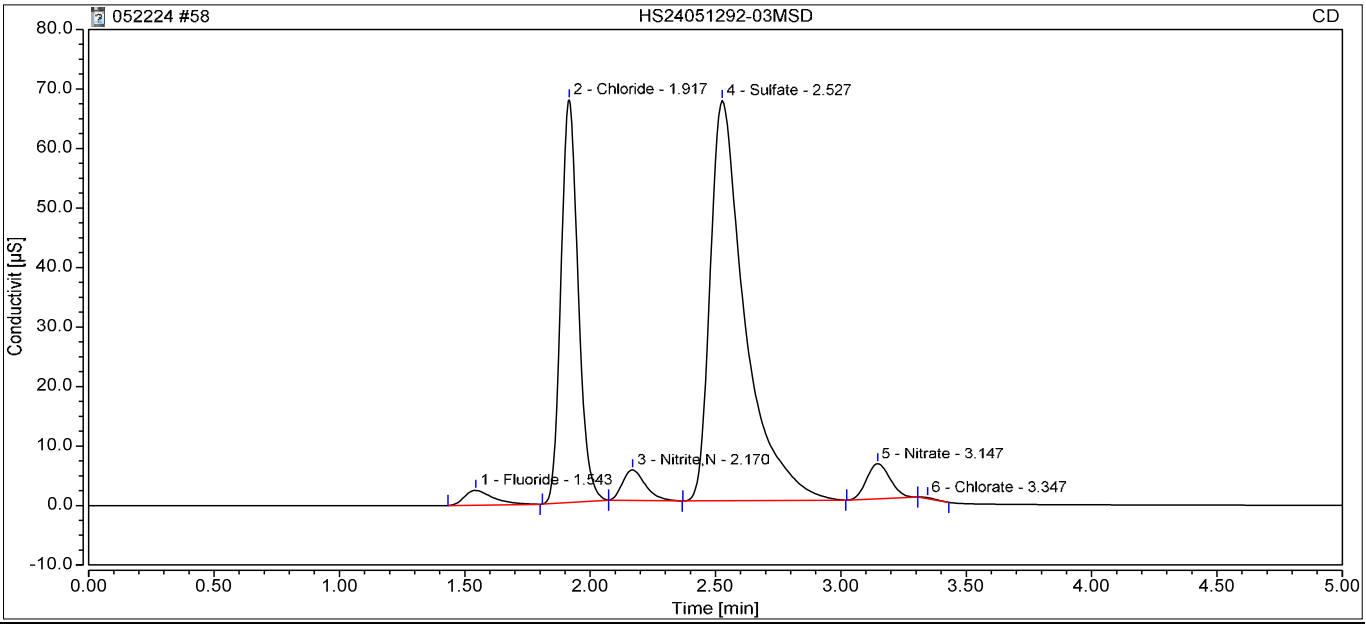
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.54	Fluoride	BMB	0.320	1.7190	1.7190	1.0000
2	1.92	Chloride	BMB	5.346	35.1823	35.1823	1.0000
3	2.17	Nitrite,N	BMB	0.536	1.7040	1.7040	1.0000
4	2.53	Sulfate	BMB	10.762	110.9806	110.9806	1.0000
n.a.	n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	1.0000
5	3.15	Nitrate	BMB	0.634	1.9692	1.9692	1.0000
6	3.35	Chlorate	BMB	0.011	0.6457	0.6457	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**17.608**		**152.20**	

58 HS24051292-03MSD

Sample Name:	**HS24051292-03MSD**	*Injection Volume:*	**5.00**
Vial Number:	**RD5**	*Channel:*	**CD**
Sample Type:	**Unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**05/22/2024 18:11**	*Sample Weight:*	**1.0000**

Run Time:



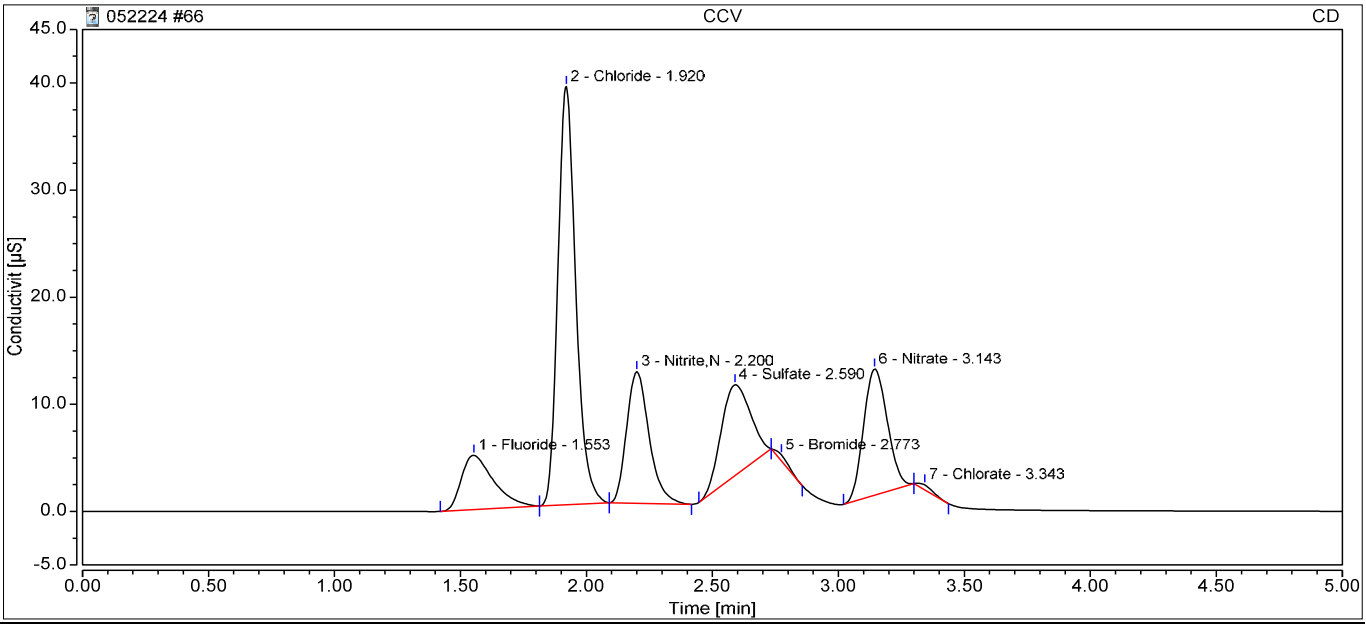
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.54	Fluoride	BMB	0.329	1.7616	1.7616	1.0000
2	1.92	Chloride	BMB	5.390	35.4751	35.4751	1.0000
3	2.17	Nitrite,N	BMB	0.540	1.7196	1.7196	1.0000
4	2.53	Sulfate	BMB	10.789	111.2315	111.2315	1.0000
n.a.	n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	1.0000
5	3.15	Nitrate	BMB	0.638	1.9830	1.9830	1.0000
6	3.35	Chlorate	BMB	0.011	0.6399	0.6399	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**17.697**		**152.81**	

66 CCV

Sample Name:	**CCV**	*Injection Volume:*	**5.00**
Vial Number:	**R1**	*Channel:*	**CD**
Sample Type:	**Unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**05/22/2024 19:04**	*Sample Weight:*	**1.0000**

Run Time:



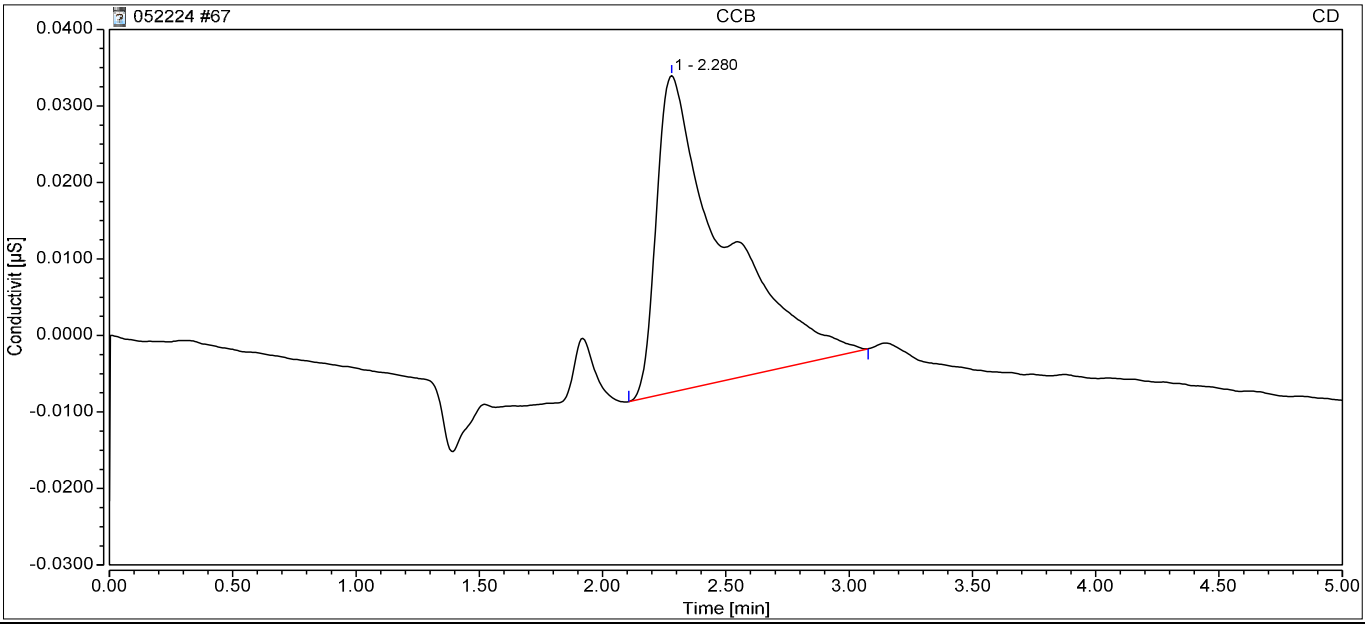
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.55	Fluoride	BMB	0.752	3.9343	3.9343	1.0000
2	1.92	Chloride	BMB	3.223	21.2346	21.2346	1.0000
3	2.20	Nitrite,N	BMB	1.279	4.1805	4.1805	1.0000
4	2.59	Sulfate	BMB	1.135	12.9588	12.9588	1.0000
5	2.77	Bromide	BMB	0.033	0.9628	0.9628	1.0000
6	3.14	Nitrate	BMB	1.288	3.9939	3.9939	1.0000
7	3.34	Chlorate	BMB	0.030	1.5683	1.5683	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**7.739**		**48.83**	

67 CCB

Sample Name:	**CCB**	*Injection Volume:*	**5.00**
Vial Number:	**R4**	*Channel:*	**CD**
Sample Type:	**Unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**05/22/2024 19:22**	*Sample Weight:*	**1.0000**

Run Time:



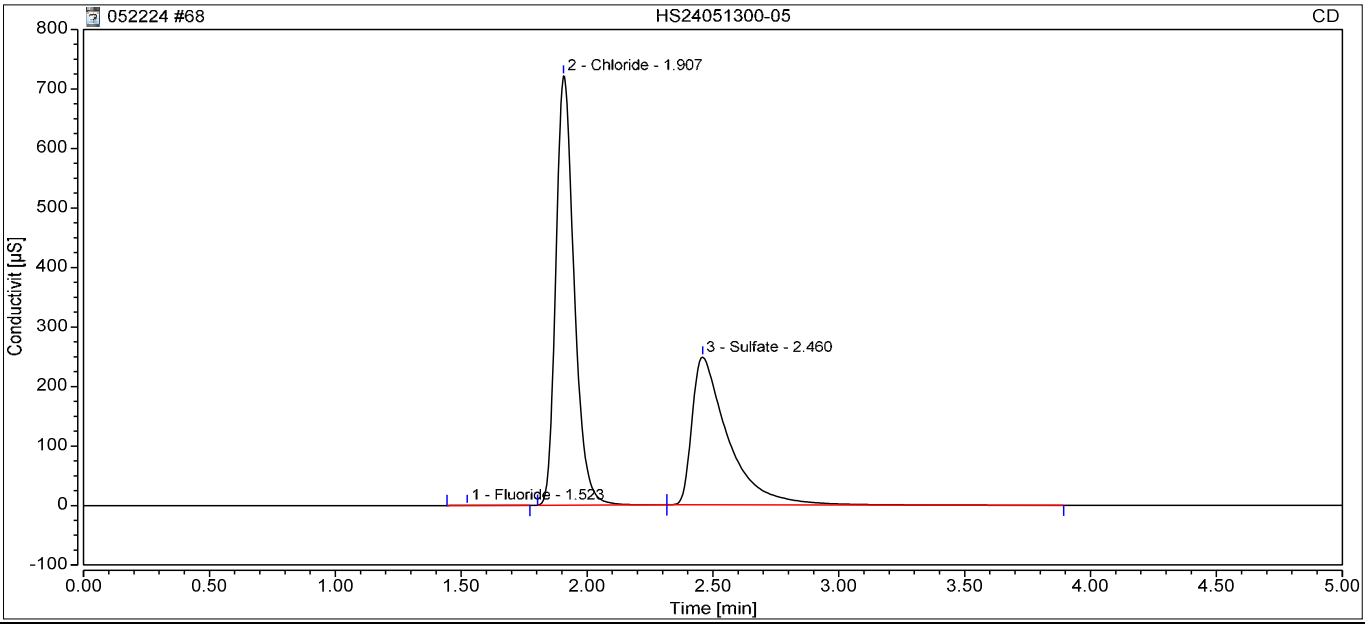
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
n.a.	n.a.	Fluoride	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Chloride	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Nitrite,N	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Sulfate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**0.000**		**0.00**	

68 HS24051300-05

Sample Name:	**HS24051300-05**	*Injection Volume:*	**5.00**
Vial Number:	**RE5**	*Channel:*	**CD**
Sample Type:	**Unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**05/22/2024 19:28**	*Sample Weight:*	**1.0000**

Run Time:



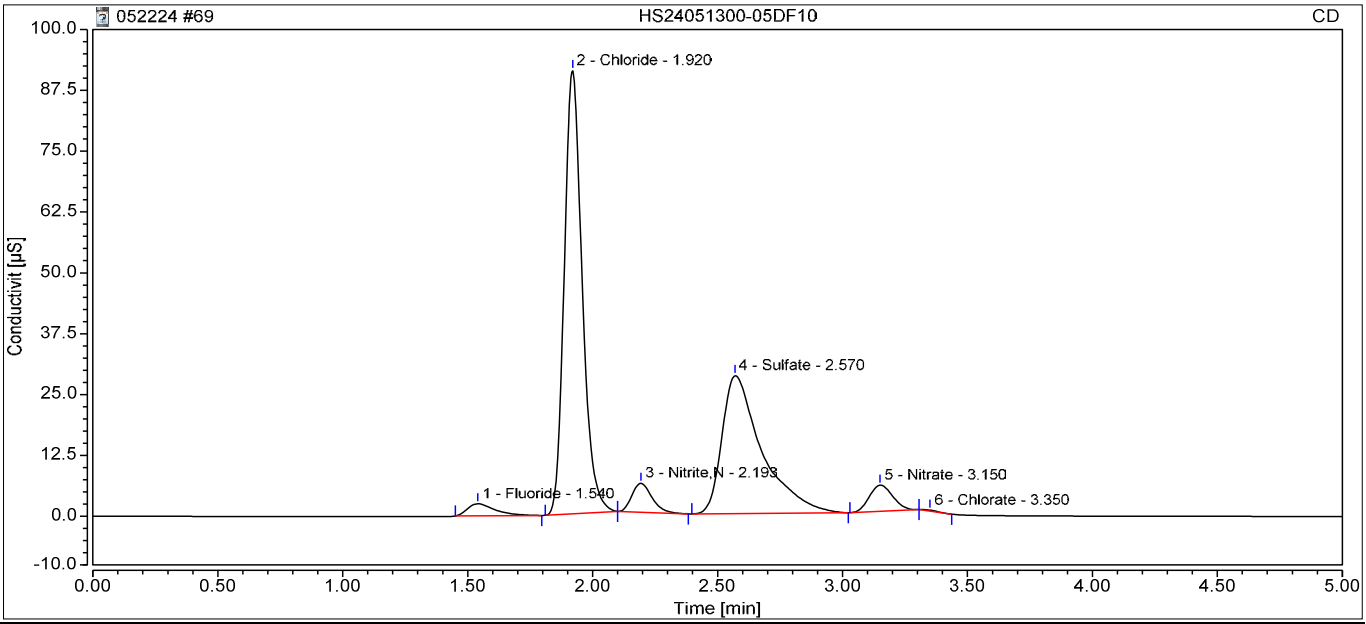
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.52	Fluoride	BMB	0.025	0.2046	0.2046	1.0000
2	1.91	Chloride	BMB	60.781	399.3817	399.3817	1.0000
n.a.	n.a.	Nitrite,N	n.a.	n.a.	n.a.	n.a.	1.0000
3	2.46	Sulfate	BMB	41.321	348.8039	348.8039	1.0000
n.a.	n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**102.128**		**748.39**	

69 HS24051300-05DF10

Sample Name:	**HS24051300-05DF10**	*Injection Volume:*	**5.00**
Vial Number:	**RE6**	*Channel:*	**CD**
Sample Type:	**Unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**10.0000**
Recording Time:	**05/22/2024 19:34**	*Sample Weight:*	**1.0000**

Run Time:



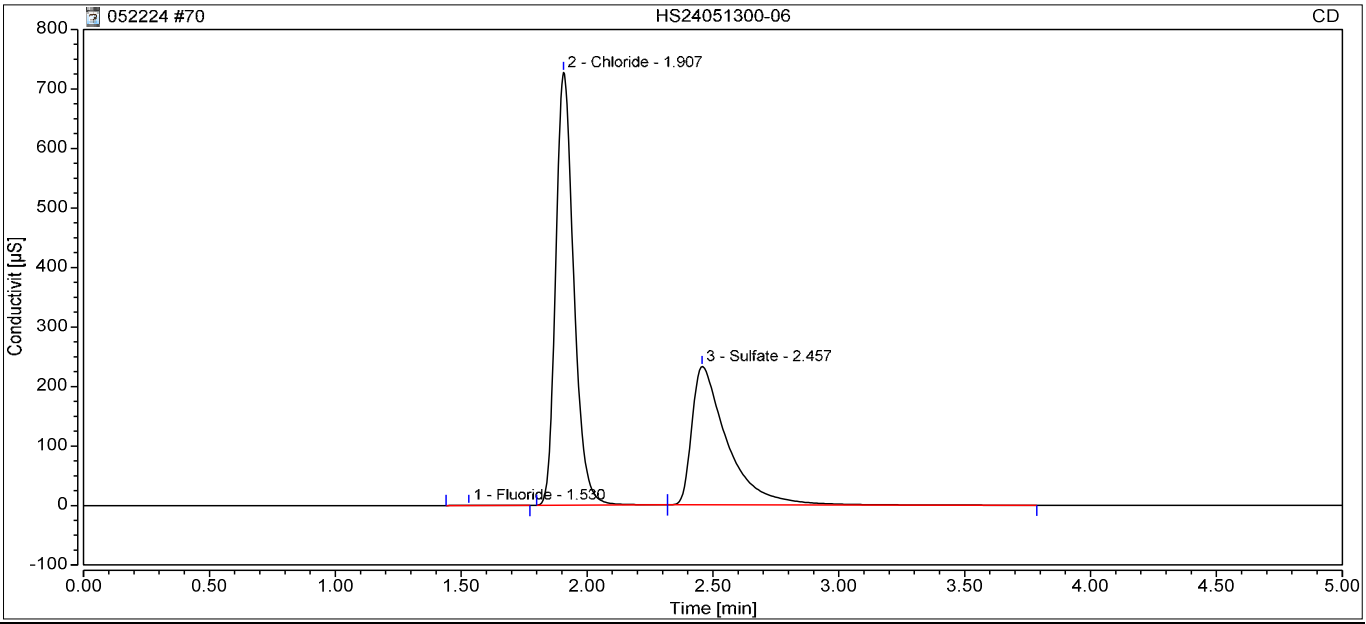
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.54	Fluoride	BMB	0.315	1.6922	16.9218	10.0000
2	1.92	Chloride	BMB	7.566	49.7709	497.7085	10.0000
3	2.19	Nitrite,N	BMB	0.550	1.7519	17.5185	10.0000
4	2.57	Sulfate	BMB	5.229	56.8273	568.2733	10.0000
n.a.	n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	10.0000
5	3.15	Nitrate	BMB	0.584	1.8147	18.1473	10.0000
6	3.35	Chlorate	BMB	0.012	0.7155	7.1550	10.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	10.0000
Total:			**0.000**	**14.257**		**1125.72**	

70 HS24051300-06

Sample Name:	**HS24051300-06**	*Injection Volume:*	**5.00**
Vial Number:	**RE7**	*Channel:*	**CD**
Sample Type:	**Unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**05/22/2024 19:40**	*Sample Weight:*	**1.0000**

Run Time:



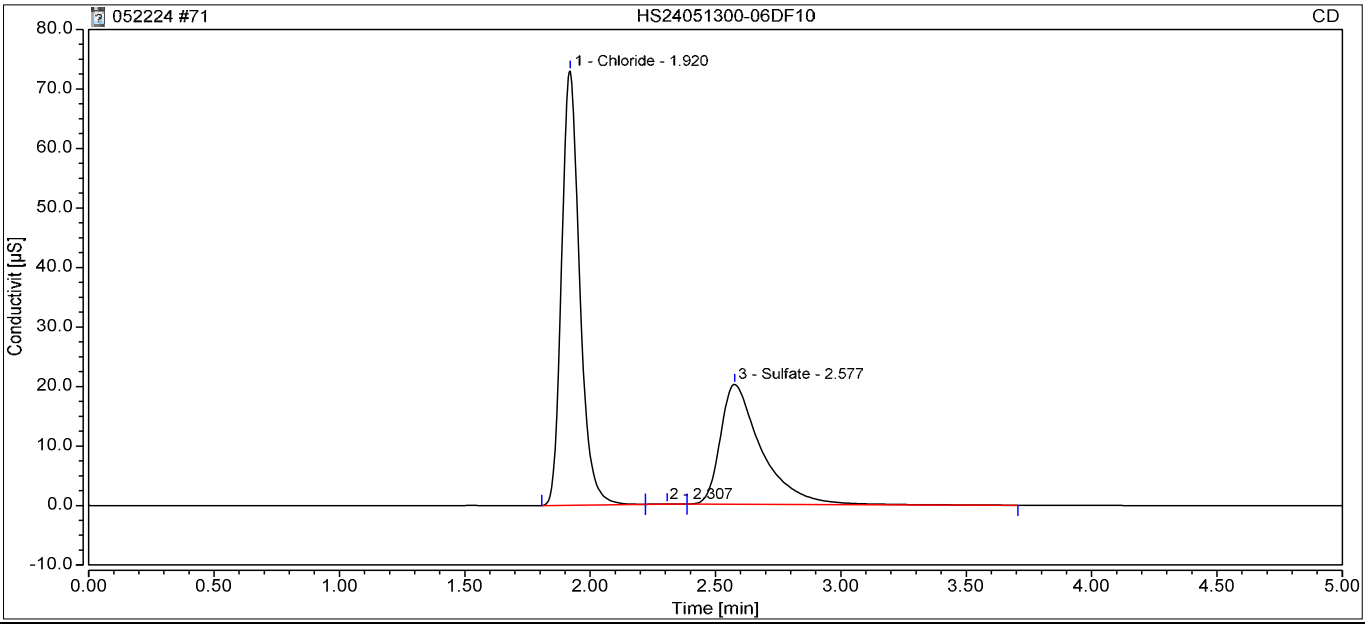
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.53	Fluoride	BMB	0.040	0.2819	0.2819	1.0000
2	1.91	Chloride	BMB	60.482	397.4164	397.4164	1.0000
n.a.	n.a.	Nitrite,N	n.a.	n.a.	n.a.	n.a.	1.0000
3	2.46	Sulfate	BMB	37.988	326.2700	326.2700	1.0000
n.a.	n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**98.511**		**723.97**	

71 HS24051300-06DF10

Sample Name:	**HS24051300-06DF10**	*Injection Volume:*	**5.00**
Vial Number:	**RE8**	*Channel:*	**CD**
Sample Type:	**Unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**10.0000**
Recording Time:	**05/22/2024 19:46**	*Sample Weight:*	**1.0000**

Run Time:



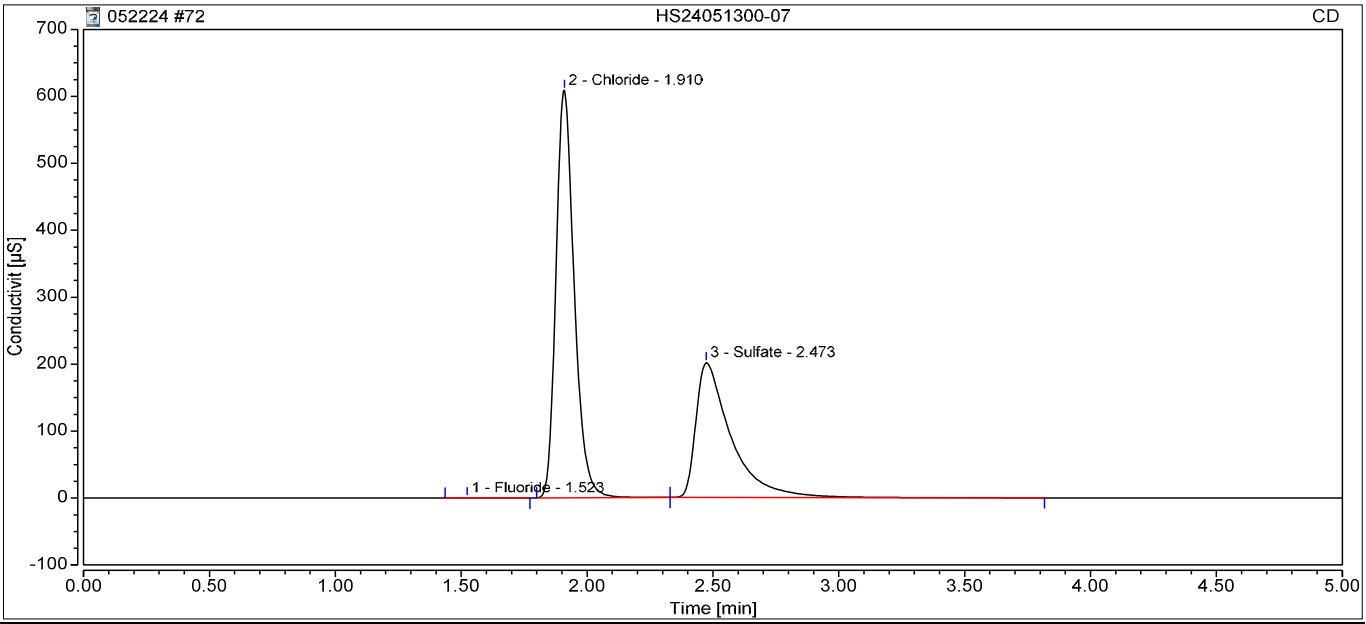
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
n.a.	n.a.	Fluoride	n.a.	n.a.	n.a.	n.a.	10.0000
1	1.92	Chloride	BMB	6.107	40.1836	401.8355	10.0000
n.a.	n.a.	Nitrite,N	n.a.	n.a.	n.a.	n.a.	10.0000
3	2.58	Sulfate	BMB	3.815	42.0891	420.8908	10.0000
n.a.	n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	10.0000
n.a.	n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	10.0000
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	10.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	10.0000
Total:			**0.000**	**9.922**		**822.73**	

72 HS24051300-07

Sample Name:	**HS24051300-07**	*Injection Volume:*	**5.00**
Vial Number:	**GA1**	*Channel:*	**CD**
Sample Type:	**Unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**05/22/2024 19:51**	*Sample Weight:*	**1.0000**

Run Time:



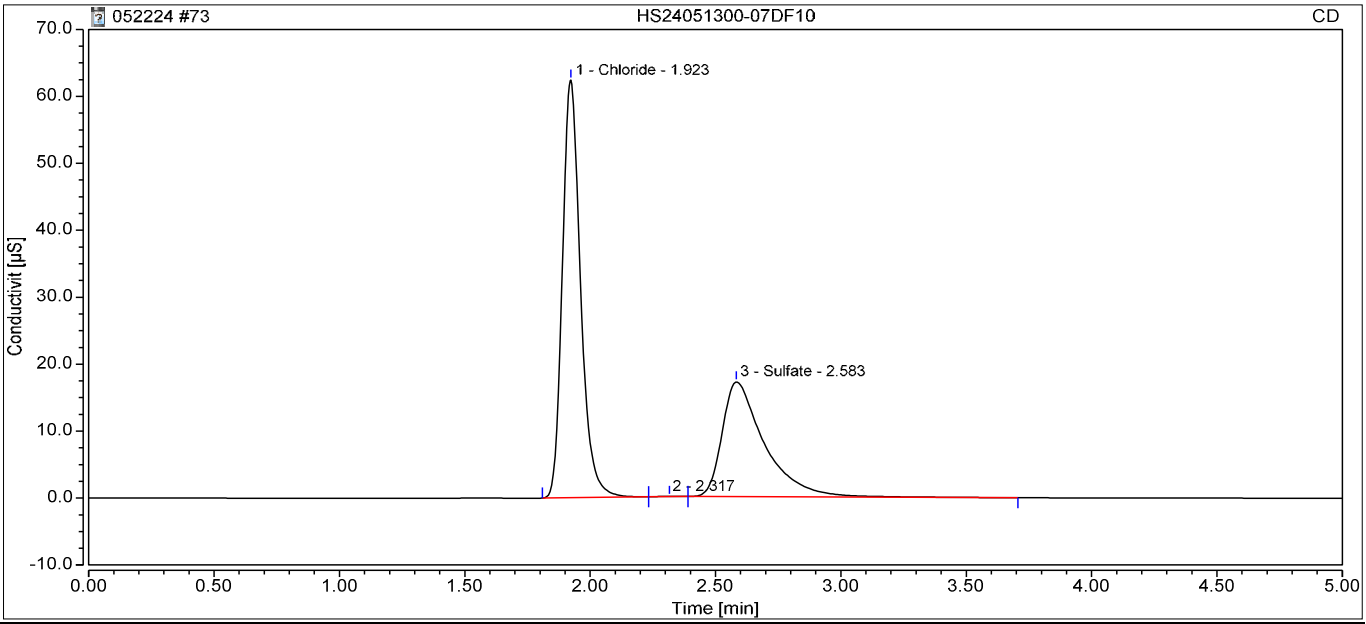
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.52	Fluoride	BMB	0.032	0.2413	0.2413	1.0000
2	1.91	Chloride	BMB	51.093	335.7345	335.7345	1.0000
n.a.	n.a.	Nitrite,N	n.a.	n.a.	n.a.	n.a.	1.0000
3	2.47	Sulfate	BMB	32.568	288.2147	288.2147	1.0000
n.a.	n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**83.693**		**624.19**	

73 HS24051300-07DF10

Sample Name:	**HS24051300-07DF10**	*Injection Volume:*	**5.00**
Vial Number:	**GA2**	*Channel:*	**CD**
Sample Type:	**Unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**10.0000**
Recording Time:	**05/22/2024 19:57**	*Sample Weight:*	**1.0000**

Run Time:



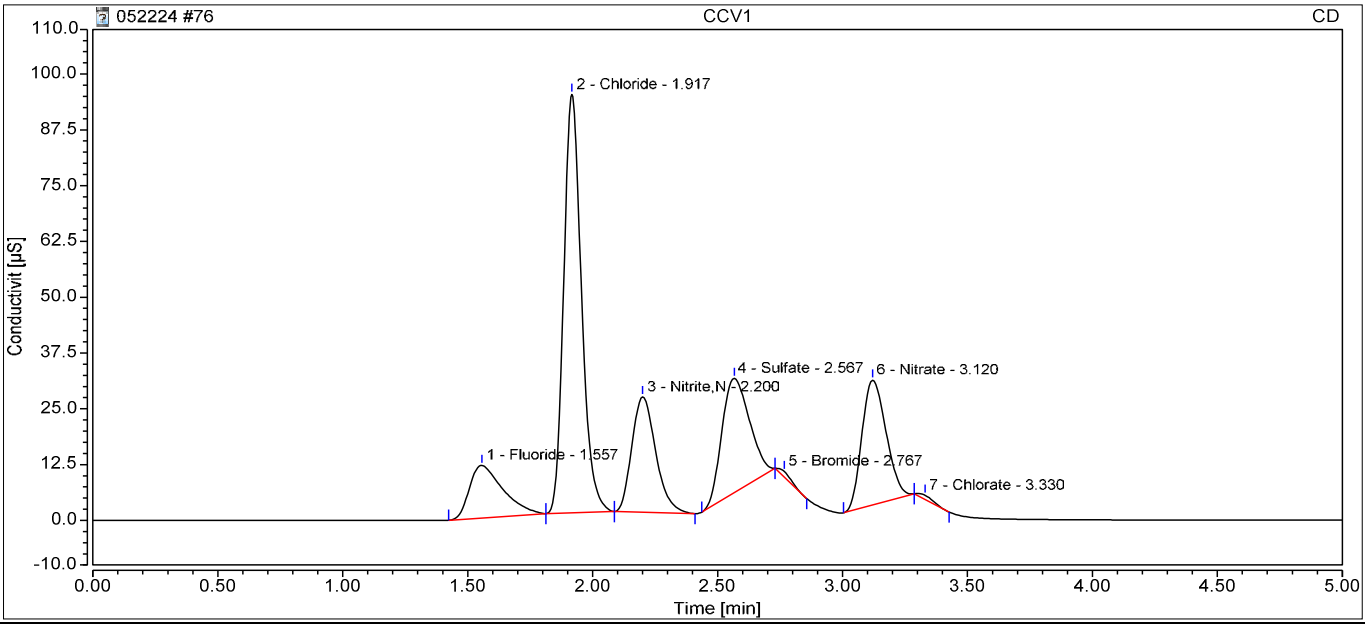
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
n.a.	n.a.	Fluoride	n.a.	n.a.	n.a.	n.a.	10.0000
1	1.92	Chloride	BMB	5.230	34.4216	344.2160	10.0000
n.a.	n.a.	Nitrite,N	n.a.	n.a.	n.a.	n.a.	10.0000
3	2.58	Sulfate	BMB	3.352	37.1685	371.6853	10.0000
n.a.	n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	10.0000
n.a.	n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	10.0000
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	10.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	10.0000
Total:			**0.000**	**8.581**		**715.90**	

76 CCV1

Sample Name:	**CCV1**	*Injection Volume:*	**5.00**
Vial Number:	**R3**	*Channel:*	**CD**
Sample Type:	**Unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**05/22/2024 20:21**	*Sample Weight:*	**1.0000**

Run Time:



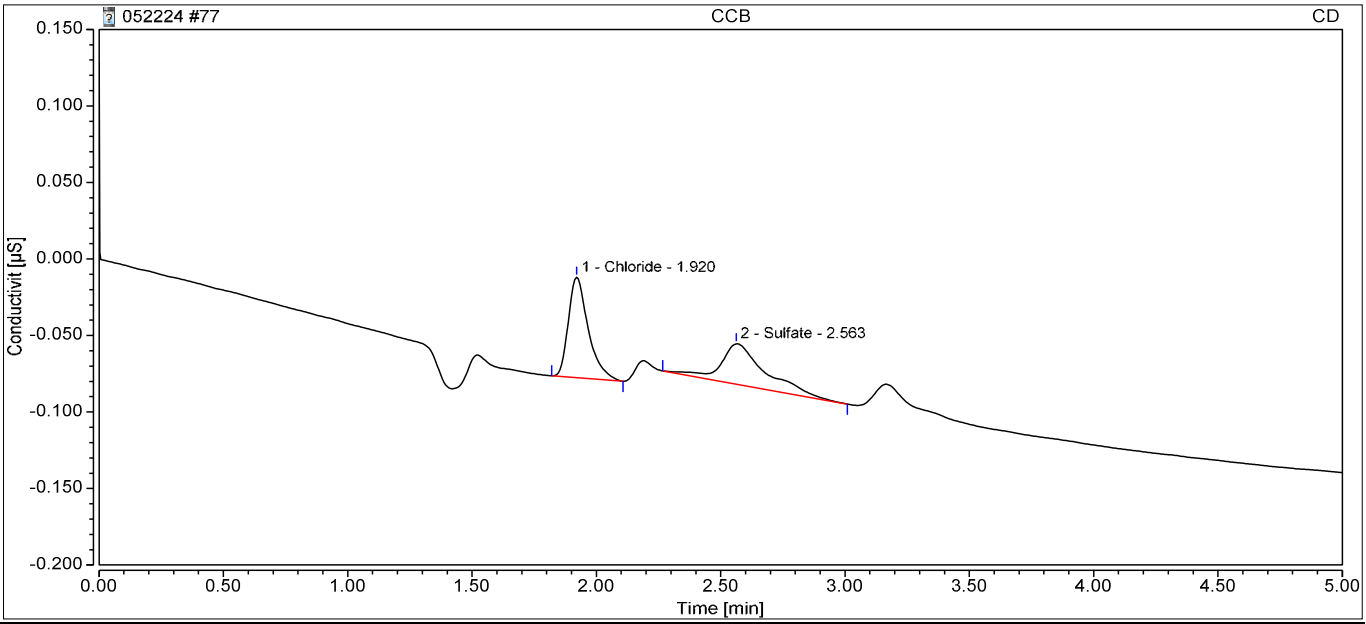
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.56	Fluoride	BMB	1.825	9.4425	9.4425	1.0000
2	1.92	Chloride	BMB	7.724	50.8089	50.8089	1.0000
3	2.20	Nitrite,N	BMB	2.863	10.0340	10.0340	1.0000
4	2.57	Sulfate	BMB	3.277	36.3728	36.3728	1.0000
5	2.77	Bromide	BMB	0.073	2.0973	2.0973	1.0000
6	3.12	Nitrate	BMB	3.130	9.6885	9.6885	1.0000
7	3.33	Chlorate	BMB	0.063	3.2917	3.2917	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**18.956**		**121.74**	

77 CCB

Sample Name:	**CCB**	*Injection Volume:*	**5.00**
Vial Number:	**R7**	*Channel:*	**CD**
Sample Type:	**Unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**05/22/2024 20:33**	*Sample Weight:*	**1.0000**

Run Time:



Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
n.a.	n.a.	Fluoride	n.a.	n.a.	n.a.	n.a.	1.0000
1	1.92	Chloride	BMB	0.006	0.1031	0.1031	1.0000
n.a.	n.a.	Nitrite,N	n.a.	n.a.	n.a.	n.a.	1.0000
2	2.56	Sulfate	BMB	0.005	0.1586	0.1586	1.0000
n.a.	n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**0.012**		**0.26**	

HS24051300 Wetchem 9056_anions_W - B

ALS WO# HS24051300

Sequence: 052624
Last Update Operator: ALSHS.NoUser

CD	Name	Comment	Type	Position	Dilution	Level	Instrument Method
	STD1		Calibratio	RC1	1.00	1	Anions Program ISO37mM 150mm short 0.4 Constant current
	STD2		Calibratio	RC3	1.00	2	Anions Program ISO37mM 150mm short 0.4 Constant current
	STD3		Calibratio	RC4	1.00	3	Anions Program ISO37mM 150mm short 0.4 Constant current
	STD4		Calibratio	RC5	1.00	4	Anions Program ISO37mM 150mm short 0.4 Constant current
	STD5		Calibratio	RC6	1.00	5	Anions Program ISO37mM 150mm short 0.4 Constant current
	STD6		Calibratio	RC7	1.00	6	Anions Program ISO37mM 150mm short 0.4 Constant current
	ICV		Unknown	RC8	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	ICB		Unknown	B8	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	CCV1		Unknown	R3	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	CCB		Unknown	R8	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	MBLK		Unknown	R5	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	LCS		Unknown	R2	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24051384-01MSDF5		Unknown	RD7	5.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24051384-01MSDDF		Unknown	RD8	5.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	CCV		Unknown	R1	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	CCB		Unknown	R6	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24051300-05DF10		Unknown	GA6	10.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	CCV1		Unknown	R3	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	CCB		Unknown	R8	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24051300-06DF10		Unknown	GA7	10.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24051300-07DF10		Unknown	GA8	10.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	CCV		Unknown	R1	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	CCB		Unknown	R6	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current

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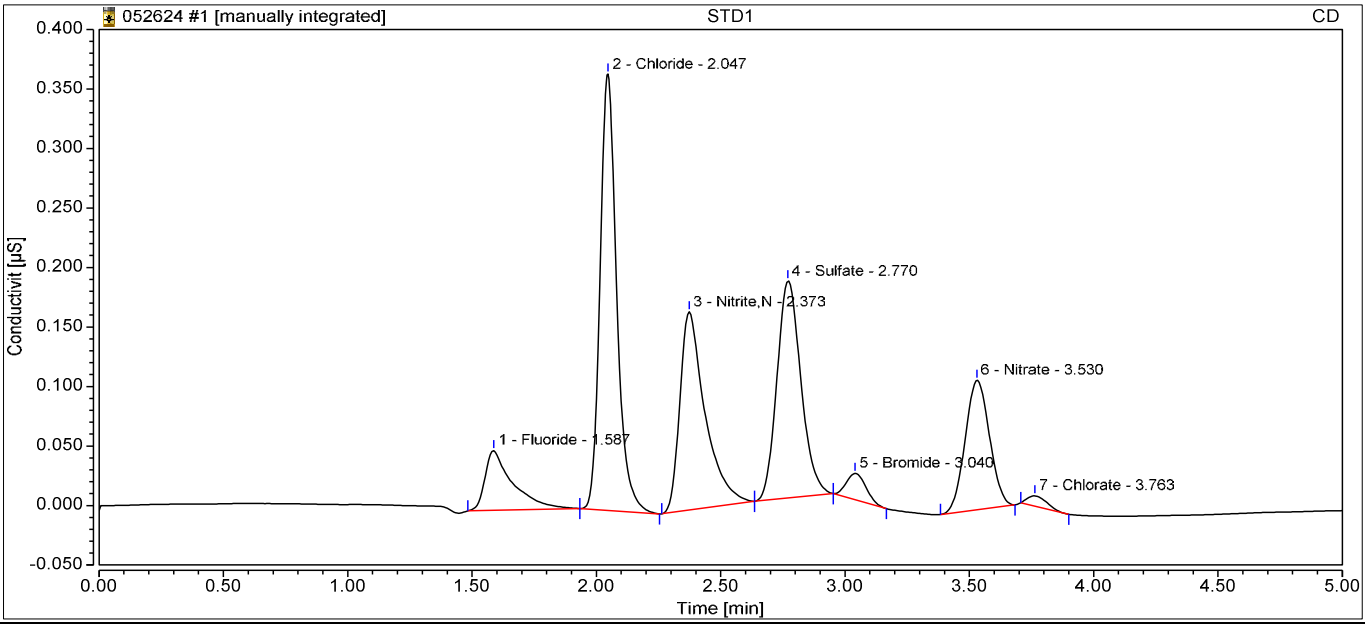
Processing Method	CD	Name	me	Status	Inject Time
Anions Processing Method ISO		STD1	5.0	Finished	5/24/2024 3:05:55 PM -0
Anions Processing Method ISO		STD2	5.0	Finished	5/24/2024 3:11:46 PM -0
Anions Processing Method ISO		STD3	5.0	Finished	5/24/2024 3:17:37 PM -0
Anions Processing Method ISO		STD4	5.0	Finished	5/24/2024 3:23:27 PM -0
Anions Processing Method ISO		STD5	5.0	Finished	5/24/2024 3:29:18 PM -0
Anions Processing Method ISO		STD6	5.0	Finished	5/24/2024 3:35:09 PM -0
Anions Processing Method ISO		ICV	5.0	Finished	5/24/2024 3:41:00 PM -0
Anions Processing Method ISO		ICB	5.0	Finished	5/24/2024 3:58:32 PM -0
Anions Processing Method ISO		CCV1	5.0	Finished	5/26/2024 1:42:42 PM -0
Anions Processing Method ISO		CCB	5.0	Finished	5/26/2024 2:00:21 PM -0
Anions Processing Method ISO		MBLK	5.0	Finished	5/26/2024 2:29:48 PM -0
Anions Processing Method ISO		LCS	5.0	Finished	5/26/2024 2:35:37 PM -0
Anions Processing Method ISO		HS24051384-01MSDF5	5.0	Finished	5/26/2024 2:53:16 PM -0
Anions Processing Method ISO		HS24051384-01MSDDF	5.0	Finished	5/26/2024 2:59:05 PM -0
Anions Processing Method ISO		CCV	5.0	Finished	5/26/2024 3:34:31 PM -0
Anions Processing Method ISO		CCB	5.0	Finished	5/26/2024 3:52:10 PM -0
Anions Processing Method ISO		HS24051300-05DF10	5.0	Finished	5/26/2024 4:50:23 PM -0
Anions Processing Method ISO		CCV1	5.0	Finished	5/26/2024 5:02:13 PM -0
Anions Processing Method ISO		CCB	5.0	Finished	5/26/2024 5:19:53 PM -0
Anions Processing Method ISO		HS24051300-06DF10	5.0	Finished	5/26/2024 5:25:42 PM -0
Anions Processing Method ISO		HS24051300-07DF10	5.0	Finished	5/26/2024 5:31:31 PM -0
Anions Processing Method ISO		CCV	5.0	Finished	5/26/2024 6:53:34 PM -0
Anions Processing Method ISO		CCB	5.0	Finished	5/26/2024 7:11:02 PM -0

Peak No.	Peak Name	Cal.Type	Eval.Type	Number of Points	Rel.Std.Dev. %	Coeff.of Determination	C0 (Offset)	C1 (Slope)	C2 (Curve)
1	***Fluoride***	***Quad, WithOffset, 1/A***	***Area***	***6***	***47.8211***	***0.99525***	***-0.0209***	***0.1871***	***0.0010***
2	Chloride	Lin, WithOffset, 1/A	Area	6	14.1093	0.99928	-0.0600	0.1553	0.0000
3	Nitrite,N	Quad, WithOffset, 1/A	Area	6	12.6612	0.99942	-0.0184	0.3400	-0.0034
4	Sulfate	Quad, WithOffset, 1/A	Area	6	13.5125	0.99951	-0.0367	0.1006	0.0000
5	Bromide	Quad, WithOffset, 1/A	Area	6	11.1870	0.99969	-0.0027	0.0421	0.0005
6	Nitrate	Lin, WithOffset, 1/A	Area	6	20.7181	0.99856	-0.0313	0.3430	0.0000
7	Chlorate	Quad, WithOffset, 1/A	Area	6	24.4785	0.99856	-0.0031	0.0317	0.0000
8	Phosphate	Lin, WithOffset, 1/A	Area	1	n.a.	n.a.	n.a.	n.a.	n.a.
Maximum					**47.8211**	0.99969			
Minimum					11.1870	**0.99525**			

1 STD1

Sample Name:	**STD1**	*Injection Volume:*	**5.00**
Vial Number:	**RC1**	*Channel:*	**CD**
Sample Type:	**Calibration Standard**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**05/24/2024 15:05**	*Sample Weight:*	**1.0000**

Run Time:



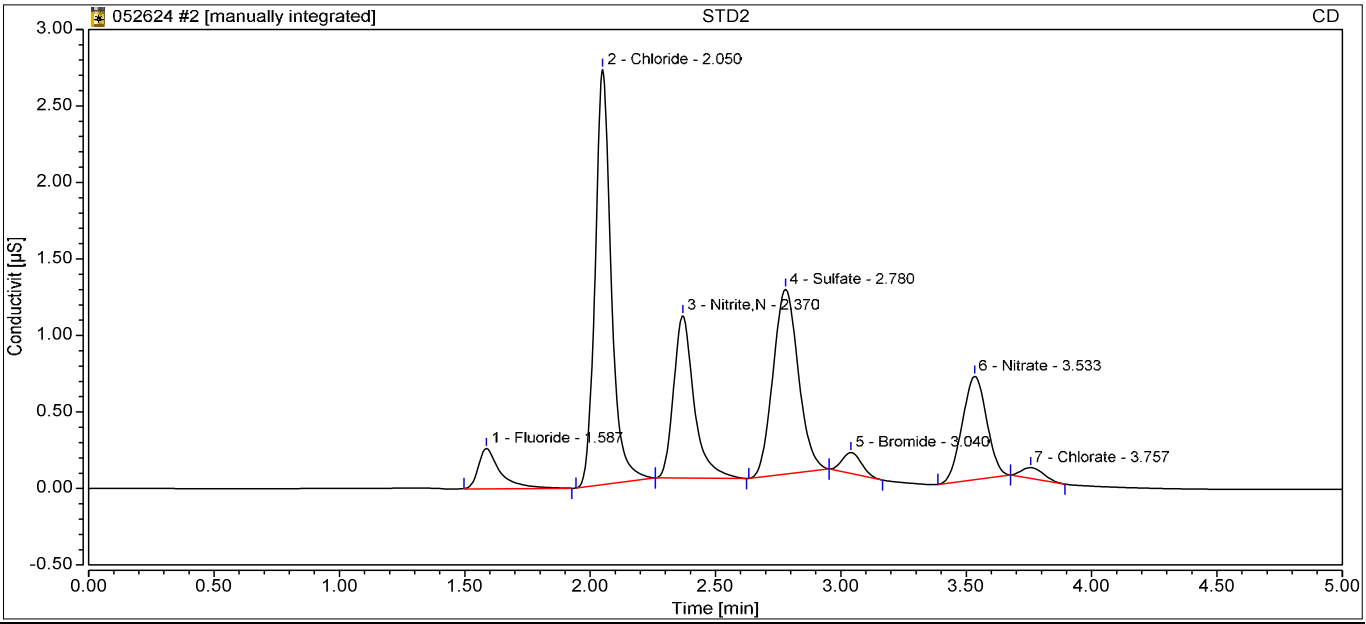
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.59	Fluoride	BMB*	0.006	0.1461	0.1461	1.0000
2	2.05	Chloride	BMB	0.028	0.5685	0.5685	1.0000
3	2.37	Nitrite,N	BMB	0.020	0.1119	0.1119	1.0000
4	2.77	Sulfate	BMB	0.020	0.5675	0.5675	1.0000
5	3.04	Bromide	BMB	0.002	0.1128	0.1128	1.0000
6	3.53	Nitrate	BMB	0.012	0.1274	0.1274	1.0000
7	3.76	Chlorate	BMB*	0.001	0.1238	0.1238	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**0.090**		**1.76**	

2 STD2

Sample Name:	**STD2**	*Injection Volume:*	**5.00**
Vial Number:	**RC3**	*Channel:*	**CD**
Sample Type:	**Calibration Standard**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**05/24/2024 15:11**	*Sample Weight:*	**1.0000**

Run Time:



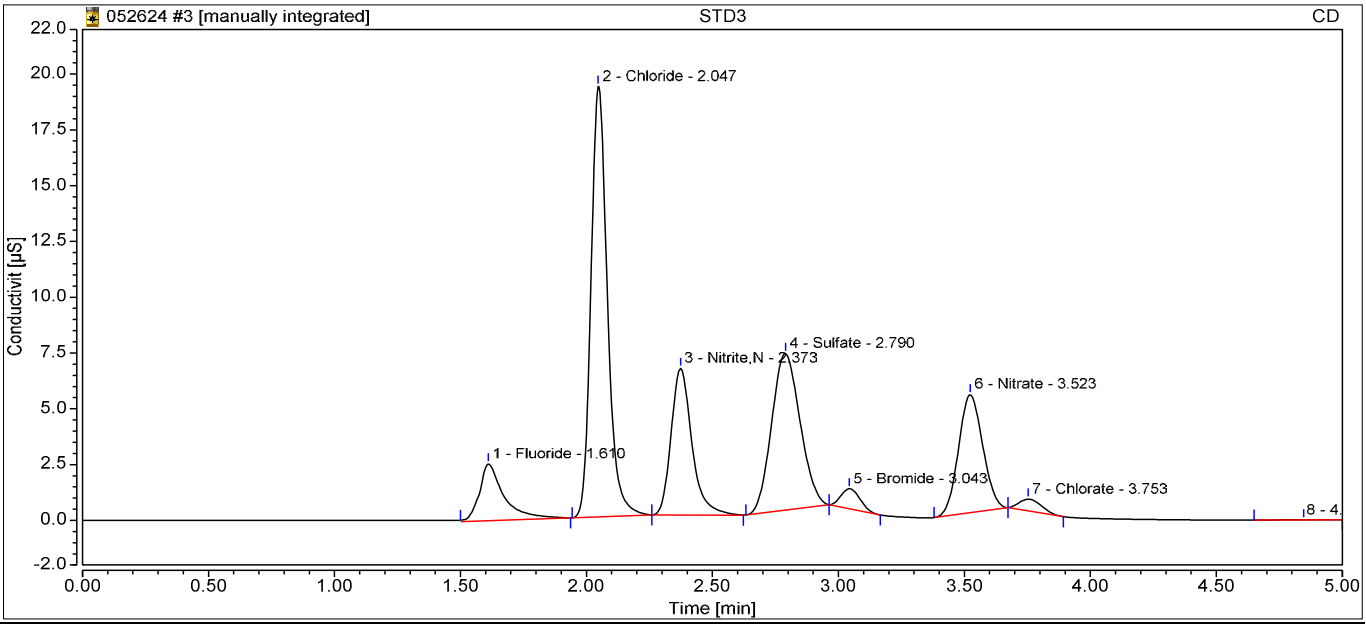
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.59	Fluoride	MB*	0.027	0.2547	0.2547	1.0000
2	2.05	Chloride	BMB	0.201	1.6835	1.6835	1.0000
3	2.37	Nitrite,N	BMB	0.101	0.3514	0.3514	1.0000
4	2.78	Sulfate	BMB	0.141	1.7687	1.7687	1.0000
5	3.04	Bromide	BMB	0.012	0.3564	0.3564	1.0000
6	3.53	Nitrate	BMB	0.076	0.3143	0.3143	1.0000
7	3.76	Chlorate	BMB	0.007	0.3242	0.3242	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**0.566**		**5.05**	

3 STD3

Sample Name:	**STD3**	*Injection Volume:*	**5.00**
Vial Number:	**RC4**	*Channel:*	**CD**
Sample Type:	**Calibration Standard**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**05/24/2024 15:17**	*Sample Weight:*	**1.0000**

Run Time:



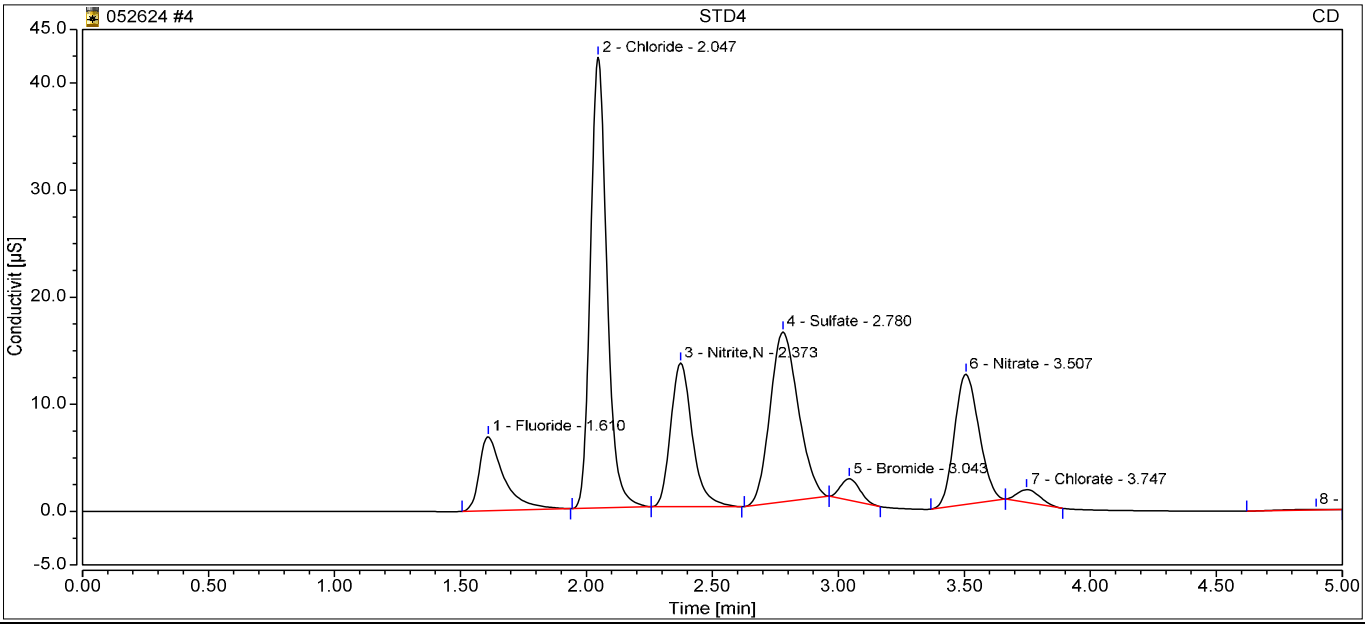
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.61	Fluoride	MB*	0.288	1.6344	1.6344	1.0000
2	2.05	Chloride	BMB	1.452	9.7390	9.7390	1.0000
3	2.37	Nitrite,N	BMB	0.628	1.9402	1.9402	1.0000
4	2.79	Sulfate	BMB	0.919	9.4564	9.4564	1.0000
5	3.04	Bromide	BMB	0.079	1.9074	1.9074	1.0000
6	3.52	Nitrate	BMB	0.588	1.8050	1.8050	1.0000
7	3.75	Chlorate	BMB	0.054	1.8157	1.8157	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**4.008**		**28.30**	

4 STD4

Sample Name:	**STD4**	*Injection Volume:*	**5.00**
Vial Number:	**RC5**	*Channel:*	**CD**
Sample Type:	**Calibration Standard**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**05/24/2024 15:23**	*Sample Weight:*	**1.0000**

Run Time:



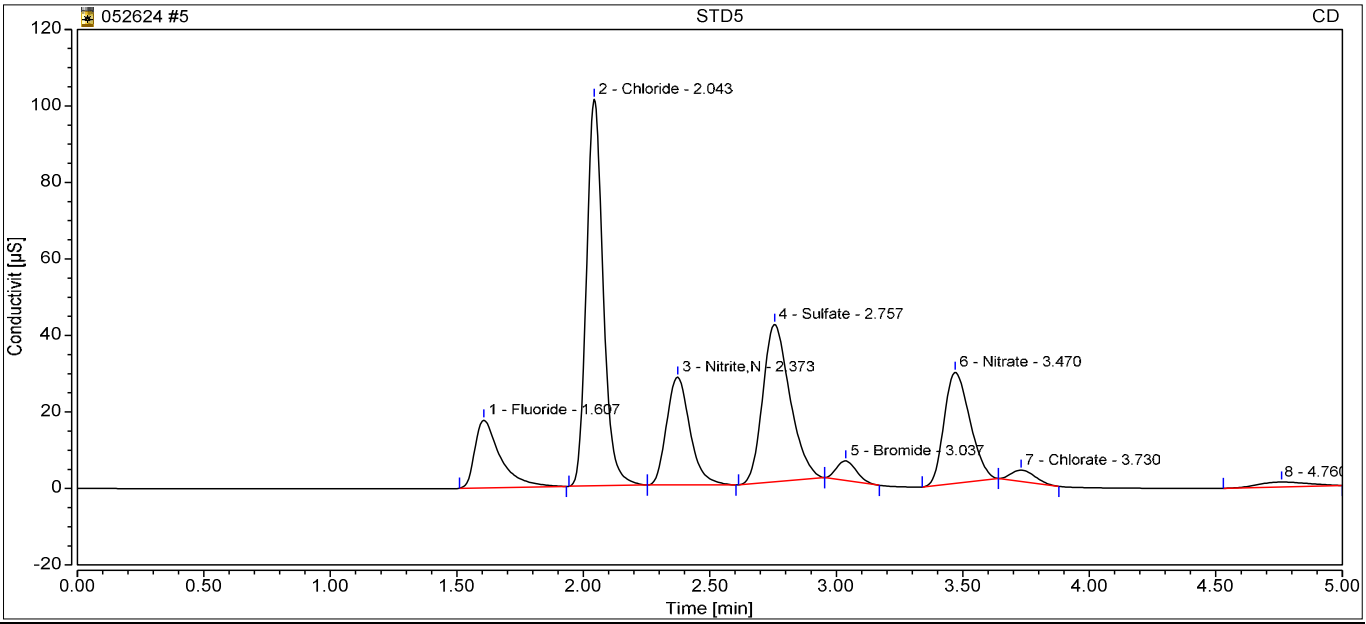
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.61	Fluoride	BMB	0.779	4.1786	4.1786	1.0000
2	2.05	Chloride	BMB	3.198	20.9870	20.9870	1.0000
3	2.37	Nitrite,N	BMB	1.336	4.1573	4.1573	1.0000
4	2.78	Sulfate	BMB	2.058	20.6315	20.6315	1.0000
5	3.04	Bromide	BMB	0.177	4.0924	4.0924	1.0000
6	3.51	Nitrate	BMB	1.374	4.0990	4.0990	1.0000
7	3.75	Chlorate	BMB	0.127	4.0823	4.0823	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**9.050**		**62.23**	

5 STD5

Sample Name:	**STD5**	*Injection Volume:*	**5.00**
Vial Number:	**RC6**	*Channel:*	**CD**
Sample Type:	**Calibration Standard**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**05/24/2024 15:29**	*Sample Weight:*	**1.0000**

Run Time:

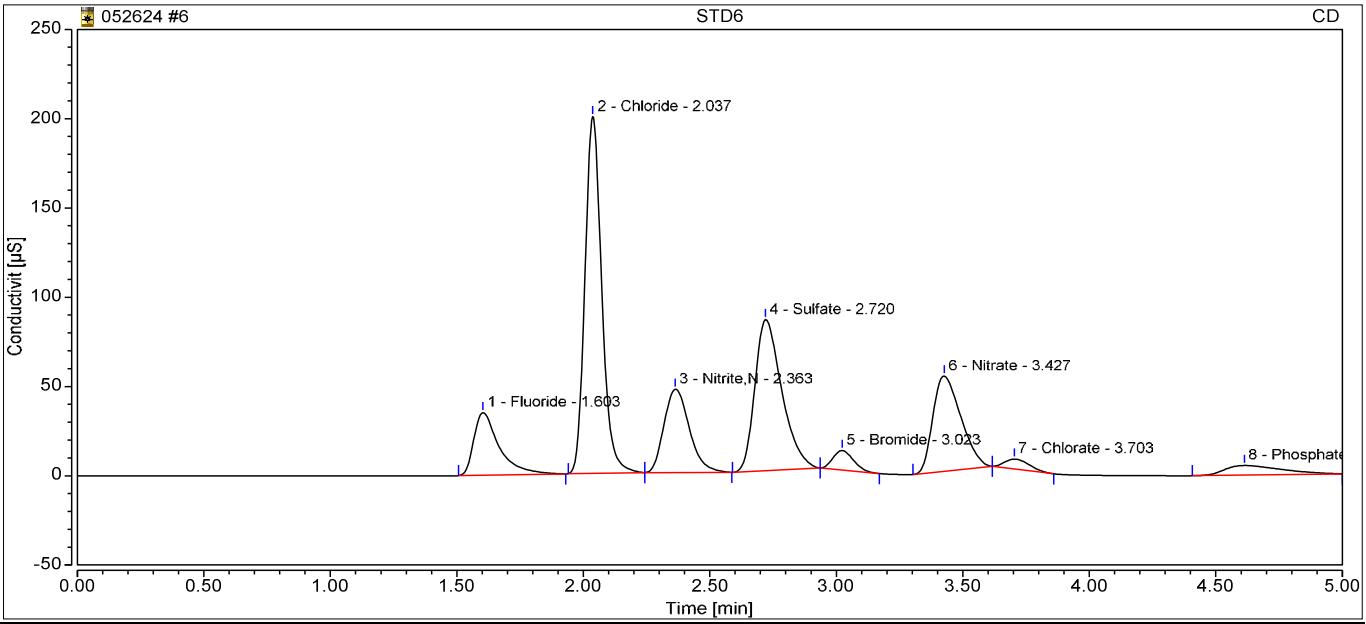


Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.61	Fluoride	BMB	2.057	10.5101	10.5101	1.0000
2	2.04	Chloride	BMB	7.745	50.2710	50.2710	1.0000
3	2.37	Nitrite,N	BMB	3.023	9.9291	9.9291	1.0000
4	2.76	Sulfate	BMB	5.132	50.2668	50.2668	1.0000
5	3.04	Bromide	BMB	0.468	10.0602	10.0602	1.0000
6	3.47	Nitrate	BMB	3.437	10.1141	10.1141	1.0000
7	3.73	Chlorate	BMB	0.324	10.2999	10.2999	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**22.186**		**151.45**	

6	*STD6*		
Sample Name:	**STD6**	*Injection Volume:*	**5.00**
Vial Number:	**RC7**	*Channel:*	**CD**
Sample Type:	**Calibration Standard**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**05/24/2024 15:35**	*Sample Weight:*	**1.0000**

Run Time:



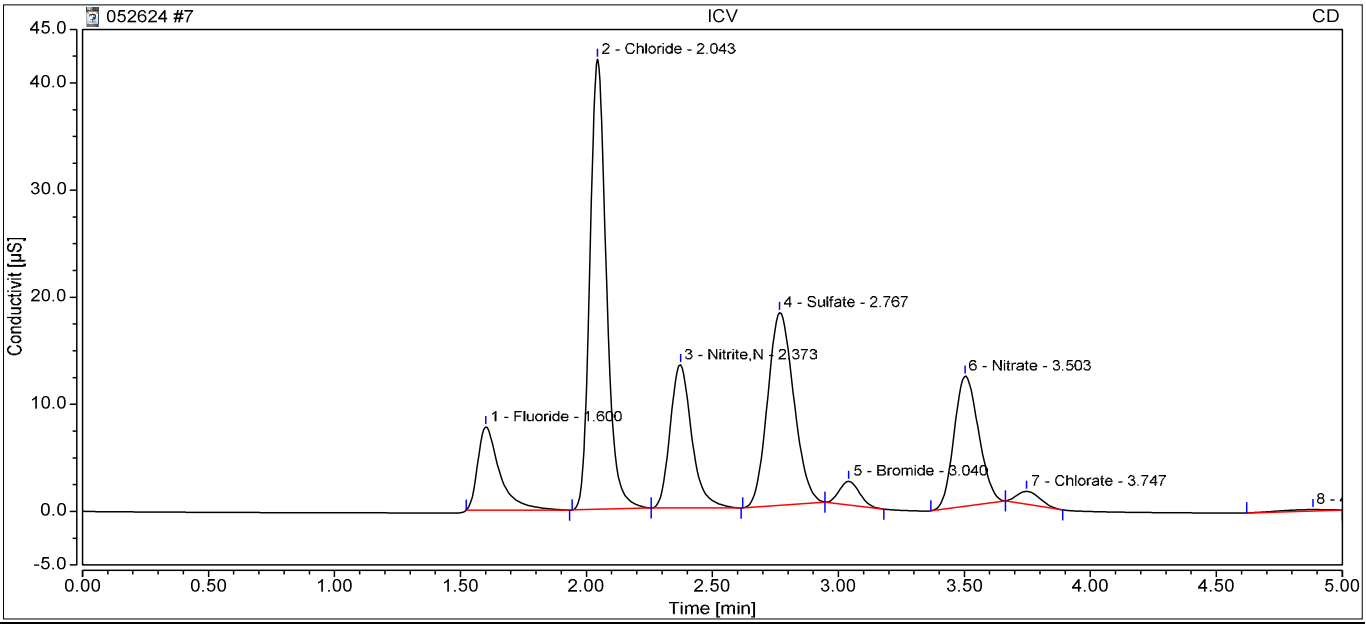
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.60	Fluoride	BMB	4.072	19.7690	19.7690	1.0000
2	2.04	Chloride	BMB	15.349	99.2510	99.2510	1.0000
3	2.36	Nitrite,N	BMB	5.427	20.0103	20.0103	1.0000
4	2.72	Sulfate	BMB	10.440	99.8080	99.8080	1.0000
5	3.02	Bromide	BMB	1.024	19.9678	19.9678	1.0000
6	3.43	Nitrate	BMB	6.842	20.0403	20.0403	1.0000
7	3.70	Chlorate	BMB	0.629	19.8540	19.8540	1.0000
8	4.61	Phosphate	BMB	1.398	n.a.	n.a.	1.0000
Total:			**0.000**	**45.182**		**298.70**	

7 *ICV*

Sample Name:	**ICV**	*Injection Volume:*	**5.00**
Vial Number:	**RC8**	*Channel:*	**CD**
Sample Type:	**Unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**05/24/2024 15:41**	*Sample Weight:*	**1.0000**

Run Time:



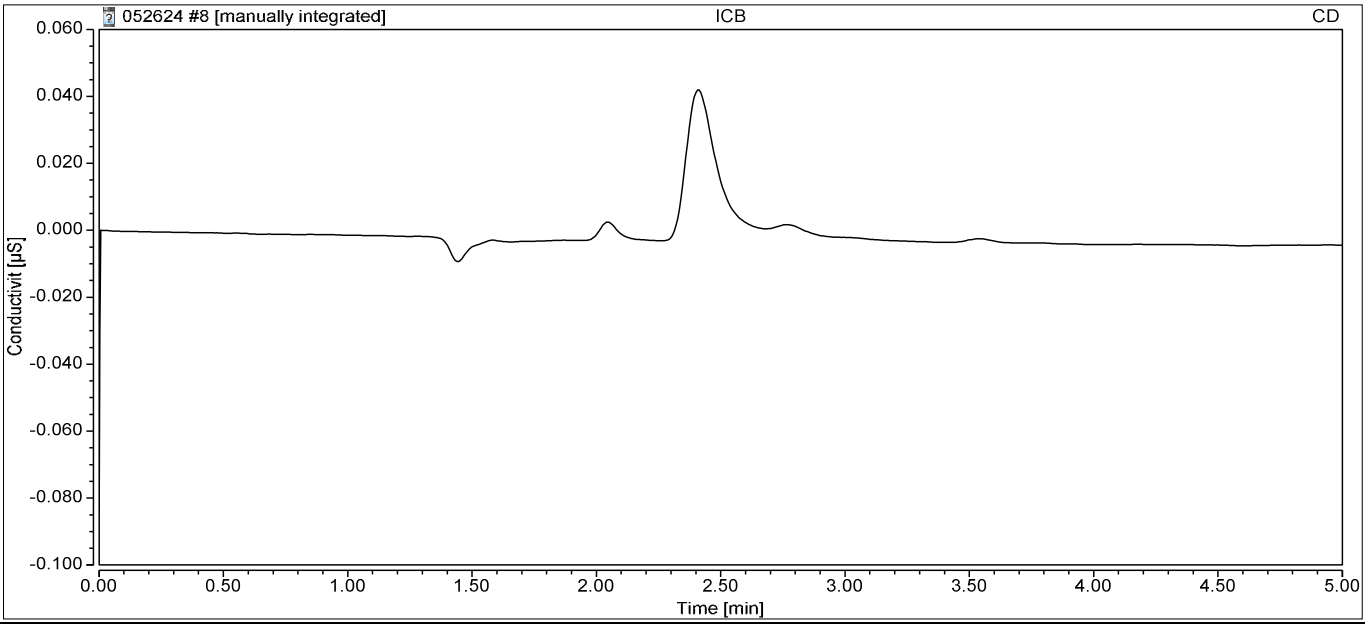
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.60	Fluoride	BMB	0.787	4.2226	4.2226	1.0000
2	2.04	Chloride	BMB	3.184	20.8964	20.8964	1.0000
3	2.37	Nitrite,N	BMB	1.328	4.1320	4.1320	1.0000
4	2.77	Sulfate	BMB	2.165	21.6763	21.6763	1.0000
5	3.04	Bromide	BMB	0.204	4.6731	4.6731	1.0000
6	3.50	Nitrate	BMB	1.373	4.0937	4.0937	1.0000
7	3.75	Chlorate	BMB	0.126	4.0795	4.0795	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**9.168**		**63.77**	

8 ICB

Sample Name:	**ICB**	*Injection Volume:*	**5.00**
Vial Number:	**B8**	*Channel:*	**CD**
Sample Type:	**Unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**05/24/2024 15:58**	*Sample Weight:*	**1.0000**

Run Time:



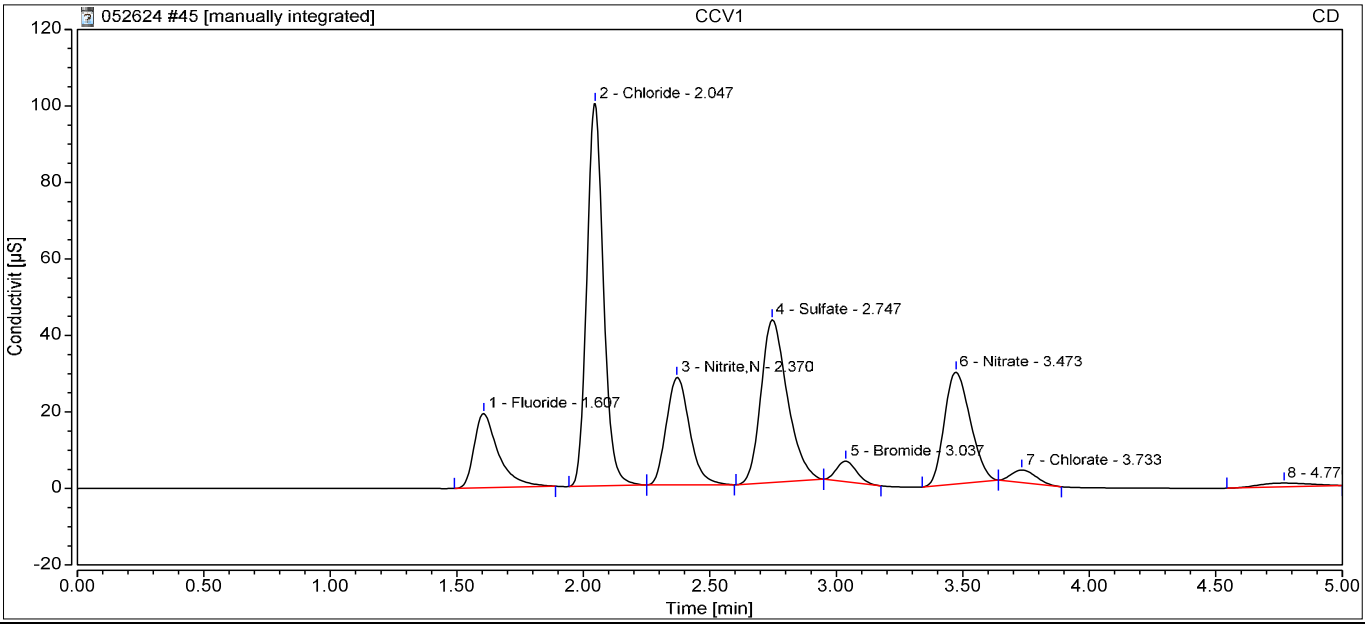
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
n.a.	n.a.	Fluoride	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Chloride	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Nitrite,N	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Sulfate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**0.000**		**0.00**	

45 CCV1

Sample Name:	**CCV1**	*Injection Volume:*	**5.00**
Vial Number:	**R3**	*Channel:*	**CD**
Sample Type:	**Unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**05/26/2024 13:42**	*Sample Weight:*	**1.0000**

Run Time:



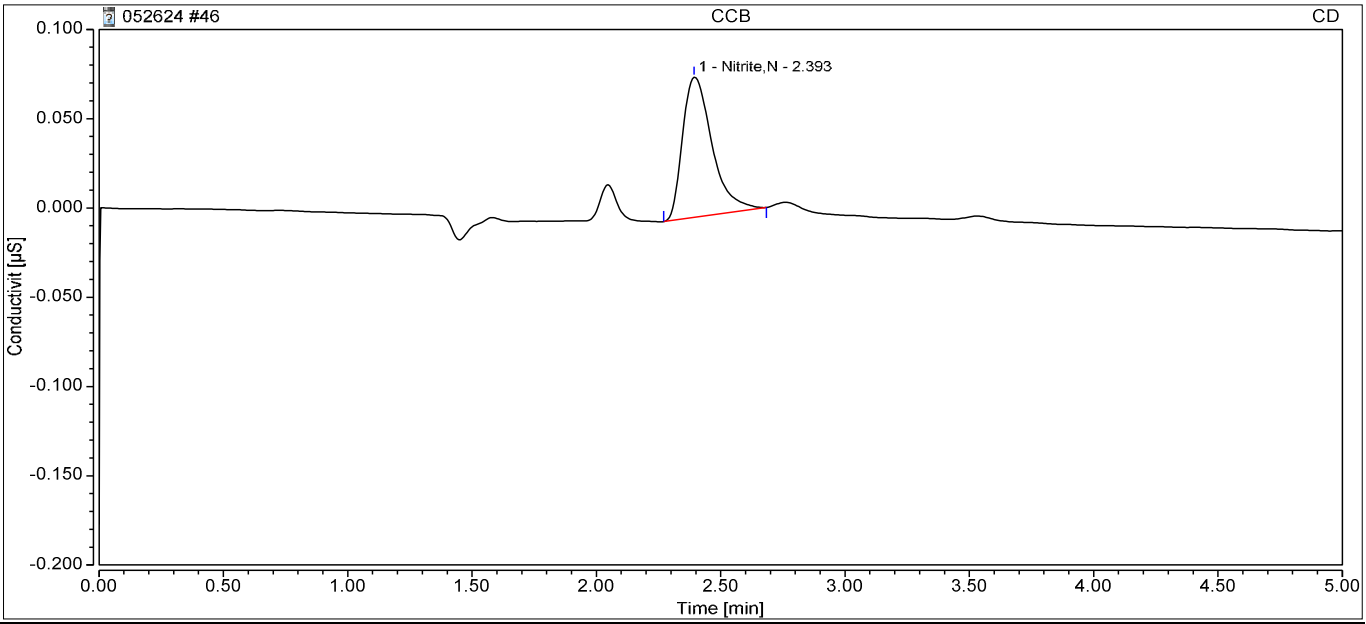
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.61	Fluoride	BMB*	2.157	10.9906	10.9906	1.0000
2	2.05	Chloride	BMB	7.618	49.4573	49.4573	1.0000
3	2.37	Nitrite,N	BMB	3.003	9.8562	9.8562	1.0000
4	2.75	Sulfate	BMB	5.141	50.3548	50.3548	1.0000
5	3.04	Bromide	BMB	0.498	10.6348	10.6348	1.0000
6	3.47	Nitrate	BMB	3.482	10.2439	10.2439	1.0000
7	3.73	Chlorate	BMB	0.367	11.6379	11.6379	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**22.267**		**153.18**	

46 CCB

Sample Name:	**CCB**	*Injection Volume:*	**5.00**
Vial Number:	**R8**	*Channel:*	**CD**
Sample Type:	**Unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**05/26/2024 14:00**	*Sample Weight:*	**1.0000**

Run Time:



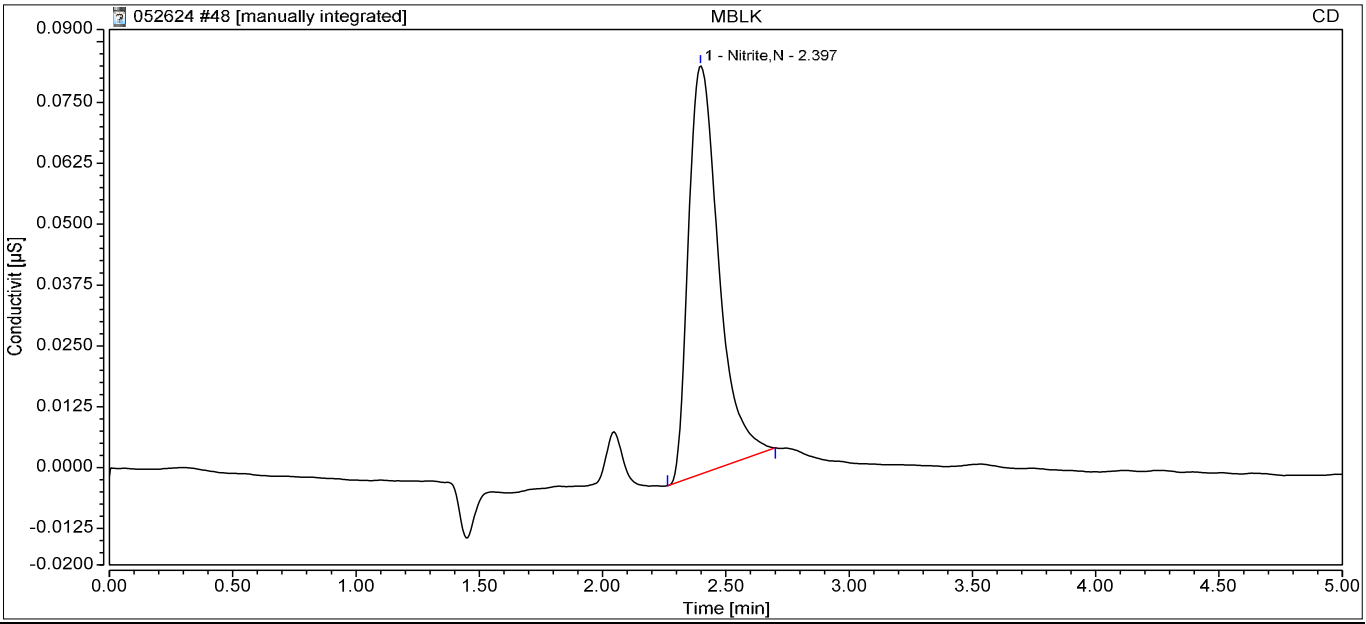
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
n.a.	n.a.	Fluoride	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Chloride	n.a.	n.a.	n.a.	n.a.	1.0000
1	2.39	Nitrite,N	BMB	0.011	0.0861	0.0861	1.0000
n.a.	n.a.	Sulfate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**0.011**		**0.09**	

48 MBLK

Sample Name:	**MBLK**	*Injection Volume:*	**5.00**
Vial Number:	**R5**	*Channel:*	**CD**
Sample Type:	**Unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**05/26/2024 14:29**	*Sample Weight:*	**1.0000**

Run Time:



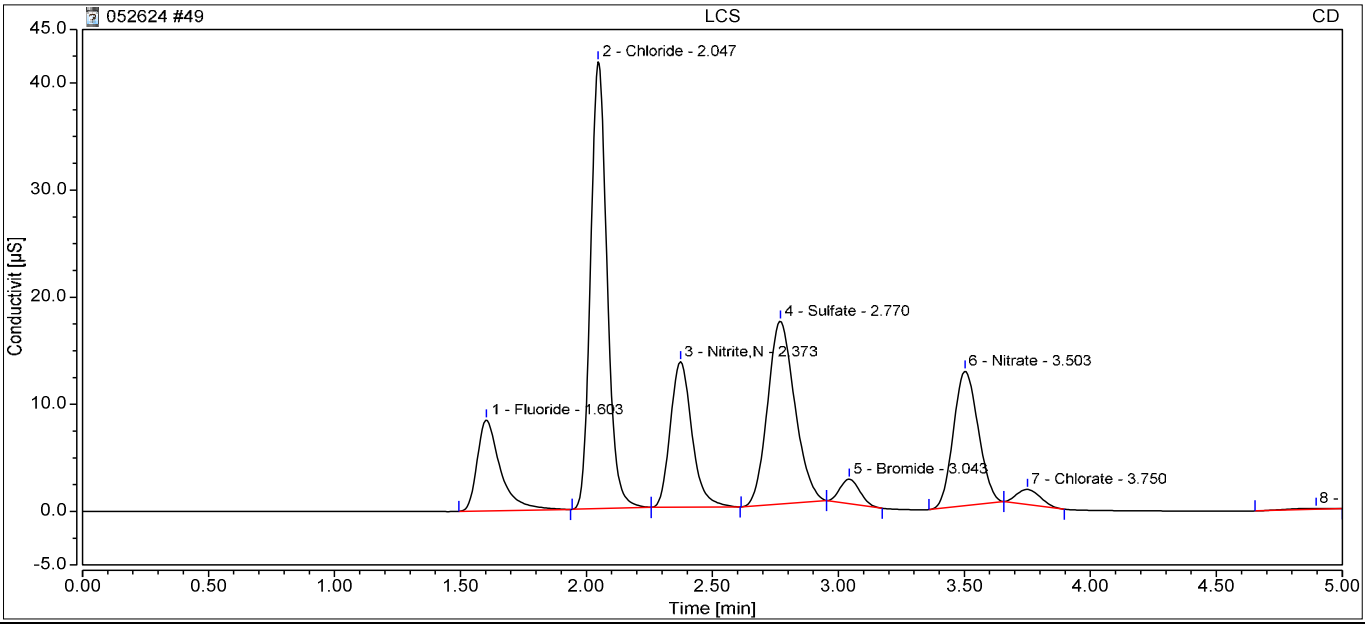
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
n.a.	n.a.	Fluoride	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Chloride	n.a.	n.a.	n.a.	n.a.	1.0000
1	2.40	Nitrite,N	BMB*	0.012	0.0895	0.0895	1.0000
n.a.	n.a.	Sulfate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**0.012**		**0.09**	

49 LCS

Sample Name:	**LCS**	*Injection Volume:*	**5.00**
Vial Number:	**R2**	*Channel:*	**CD**
Sample Type:	**Unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**05/26/2024 14:35**	*Sample Weight:*	**1.0000**

Run Time:



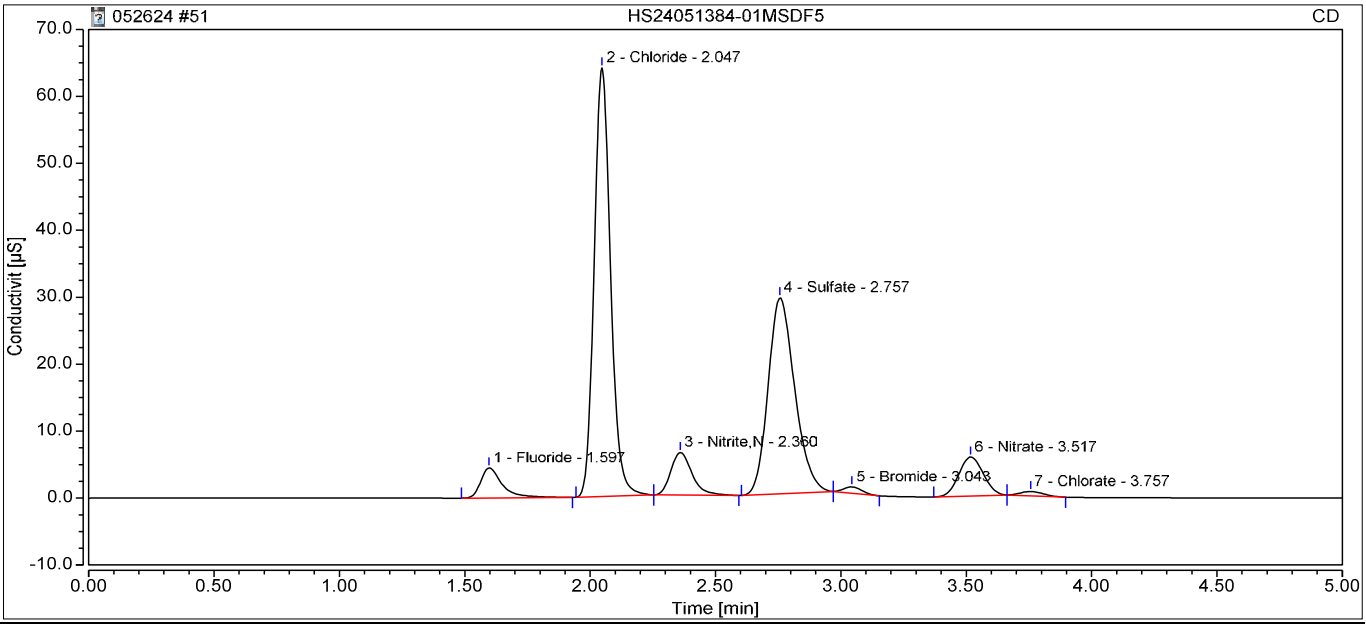
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.60	Fluoride	BMB	0.906	4.8285	4.8285	1.0000
2	2.05	Chloride	BMB	3.172	20.8193	20.8193	1.0000
3	2.37	Nitrite,N	BMB	1.351	4.2051	4.2051	1.0000
4	2.77	Sulfate	BMB	2.135	21.3822	21.3822	1.0000
5	3.04	Bromide	BMB	0.208	4.7481	4.7481	1.0000
6	3.50	Nitrate	BMB	1.437	4.2803	4.2803	1.0000
7	3.75	Chlorate	BMB	0.153	4.9177	4.9177	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**9.362**		**65.18**	

51 HS24051384-01MSDF5

Sample Name:	**HS24051384-01MSDF5**	*Injection Volume:*	**5.00**
Vial Number:	**RD7**	*Channel:*	**CD**
Sample Type:	**Unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**5.0000**
Recording Time:	**05/26/2024 14:53**	*Sample Weight:*	**1.0000**

Run Time:



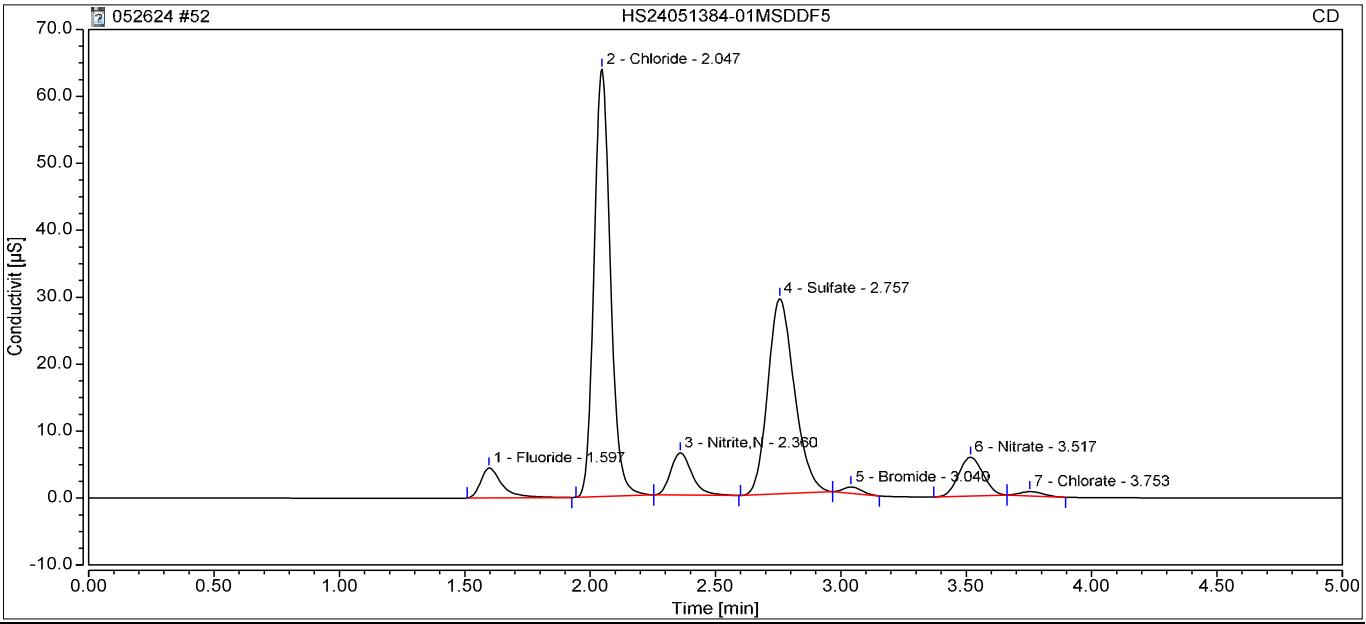
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.60	Fluoride	BMB	0.449	2.4785	12.3924	5.0000
2	2.05	Chloride	BMB	4.847	31.6039	158.0195	5.0000
3	2.36	Nitrite,N	BMB	0.626	1.9341	9.6704	5.0000
4	2.76	Sulfate	BMB	3.599	35.5801	177.9006	5.0000
5	3.04	Bromide	BMB	0.079	1.8944	9.4721	5.0000
6	3.52	Nitrate	BMB	0.659	2.0119	10.0596	5.0000
7	3.76	Chlorate	BMB	0.068	2.2423	11.2114	5.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	5.0000
Total:			**0.000**	**10.326**		**388.73**	

52 HS24051384-01MSDDF5

Sample Name:	**HS24051384-01MSDDF5**	*Injection Volume:*	**5.00**
Vial Number:	**RD8**	*Channel:*	**CD**
Sample Type:	**Unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**5.0000**
Recording Time:	**05/26/2024 14:59**	*Sample Weight:*	**1.0000**

Run Time:



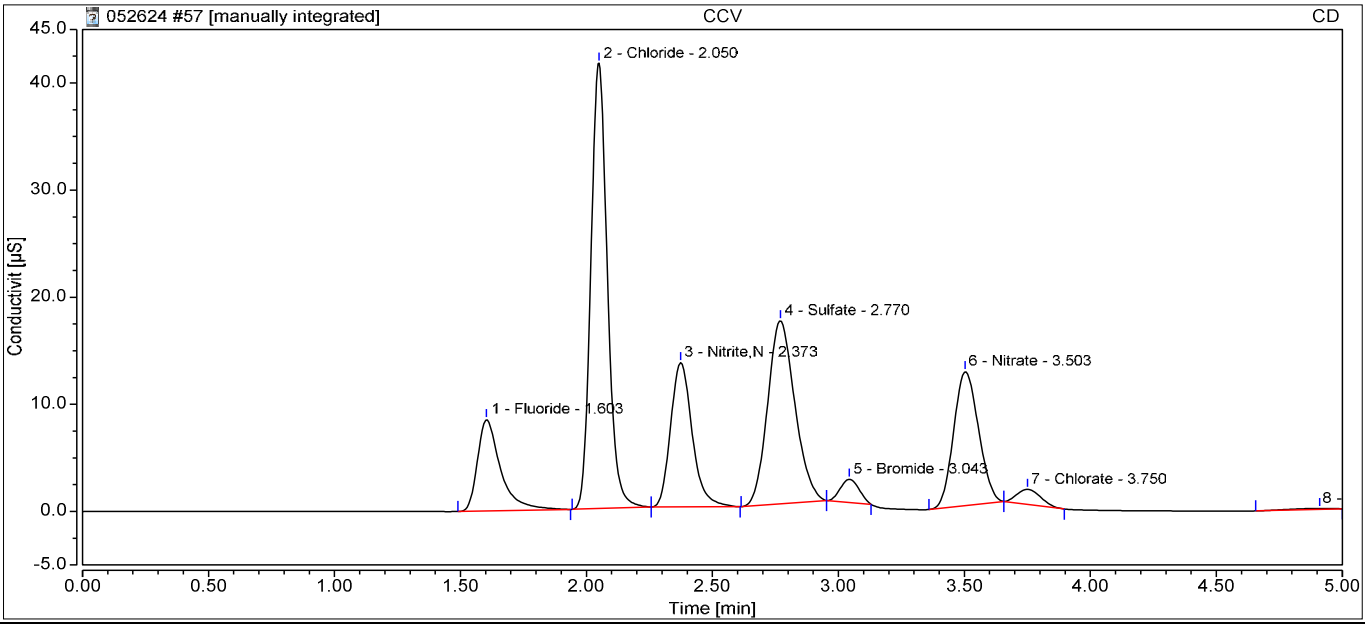
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.60	Fluoride	BMB	0.439	2.4243	12.1214	5.0000
2	2.05	Chloride	BMB	4.835	31.5317	157.6586	5.0000
3	2.36	Nitrite,N	BMB	0.624	1.9255	9.6274	5.0000
4	2.76	Sulfate	BMB	3.588	35.4766	177.3829	5.0000
5	3.04	Bromide	BMB	0.080	1.9158	9.5791	5.0000
6	3.52	Nitrate	BMB	0.657	2.0072	10.0362	5.0000
7	3.75	Chlorate	BMB	0.068	2.2412	11.2061	5.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	5.0000
Total:			**0.000**	**10.290**		**387.61**	

57 CCV

Sample Name:	**CCV**	*Injection Volume:*	**5.00**
Vial Number:	**R1**	*Channel:*	**CD**
Sample Type:	**Unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**05/26/2024 15:34**	*Sample Weight:*	**1.0000**

Run Time:



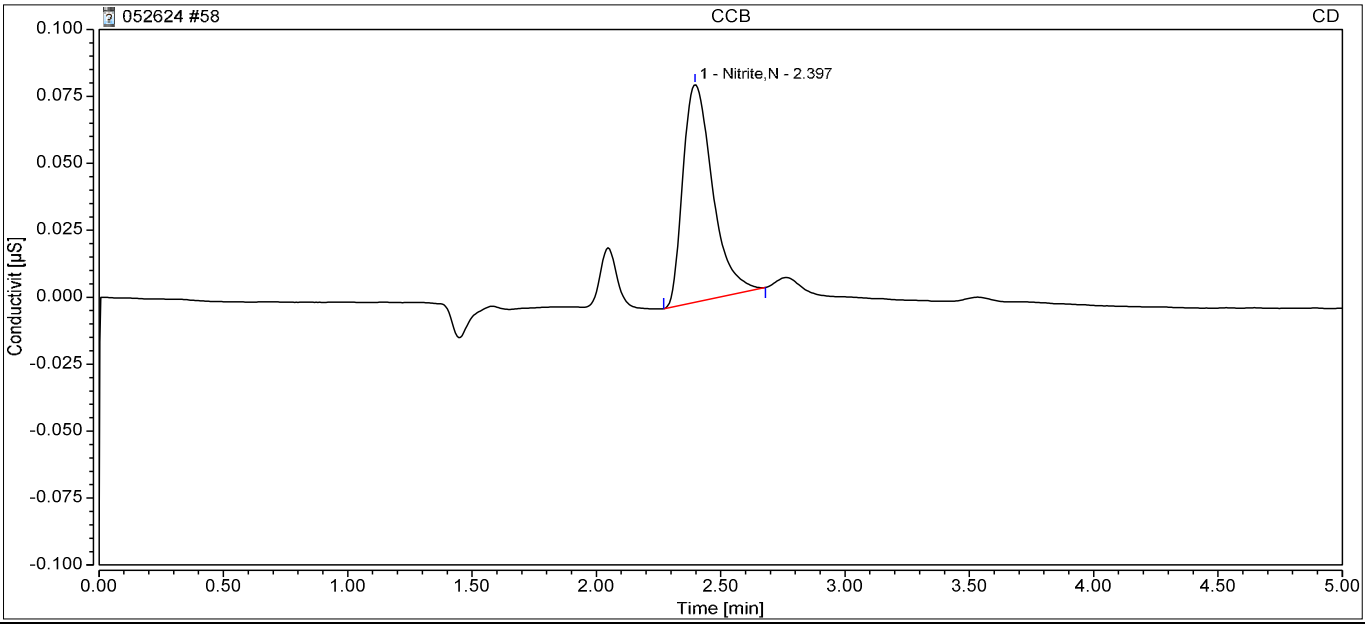
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.60	Fluoride	BMB	0.906	4.8305	4.8305	1.0000
2	2.05	Chloride	BMB	3.159	20.7323	20.7323	1.0000
3	2.37	Nitrite,N	BMB	1.339	4.1648	4.1648	1.0000
4	2.77	Sulfate	BMb*	2.137	21.4042	21.4042	1.0000
5	3.04	Bromide	bMB*	0.187	4.2996	4.2996	1.0000
6	3.50	Nitrate	BMB	1.432	4.2662	4.2662	1.0000
7	3.75	Chlorate	BMB	0.152	4.8771	4.8771	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**9.312**		**64.57**	

58 CCB

Sample Name:	**CCB**	*Injection Volume:*	**5.00**
Vial Number:	**R6**	*Channel:*	**CD**
Sample Type:	**Unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**05/26/2024 15:52**	*Sample Weight:*	**1.0000**

Run Time:



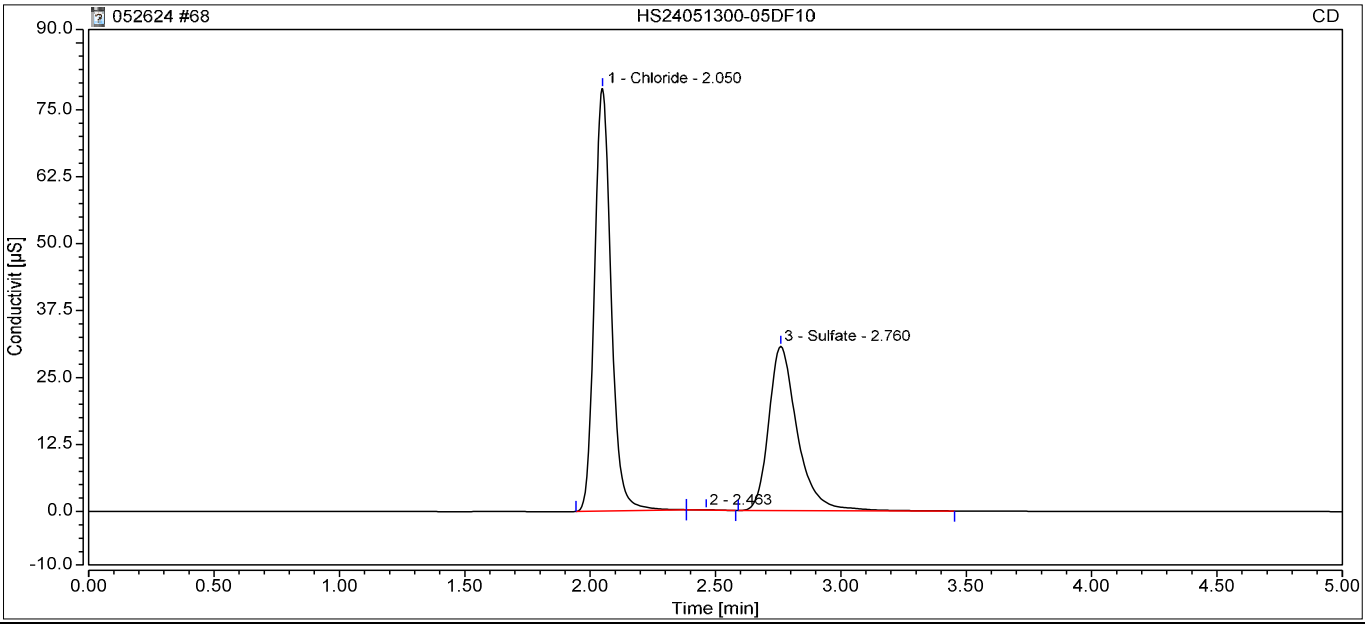
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
n.a.	n.a.	Fluoride	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Chloride	n.a.	n.a.	n.a.	n.a.	1.0000
1	2.40	Nitrite,N	BMB	0.011	0.0874	0.0874	1.0000
n.a.	n.a.	Sulfate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**0.011**		**0.09**	

68 HS24051300-05DF10

Sample Name:	**HS24051300-05DF10**	*Injection Volume:*	**5.00**
Vial Number:	**GA6**	*Channel:*	**CD**
Sample Type:	**Unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**10.0000**
Recording Time:	**05/26/2024 16:50**	*Sample Weight:*	**1.0000**

Run Time:



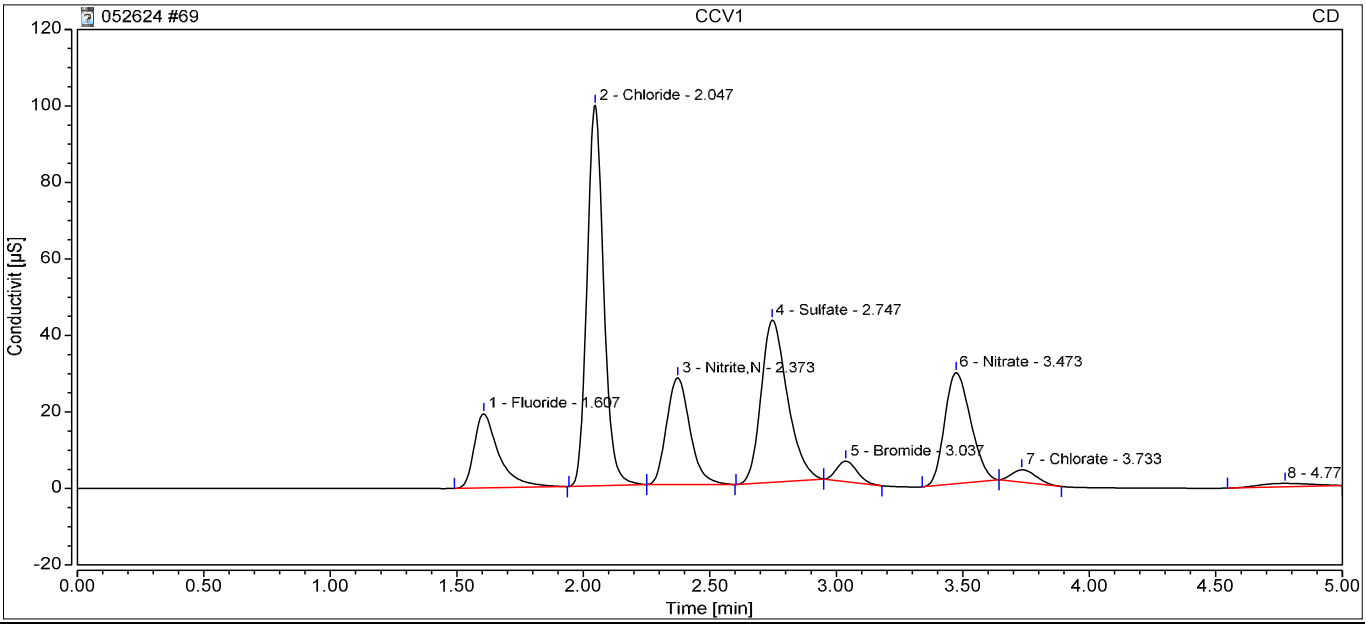
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
n.a.	n.a.	Fluoride	n.a.	n.a.	n.a.	n.a.	10.0000
1	2.05	Chloride	BMB	6.077	39.5266	395.2661	10.0000
n.a.	n.a.	Nitrite,N	n.a.	n.a.	n.a.	n.a.	10.0000
3	2.76	Sulfate	BMB	4.045	39.8718	398.7176	10.0000
n.a.	n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	10.0000
n.a.	n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	10.0000
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	10.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	10.0000
Total:			**0.000**	**10.121**		**793.98**	

69 CCV1

Sample Name:	**CCV1**	*Injection Volume:*	**5.00**
Vial Number:	**R3**	*Channel:*	**CD**
Sample Type:	**Unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**05/26/2024 17:02**	*Sample Weight:*	**1.0000**

Run Time:



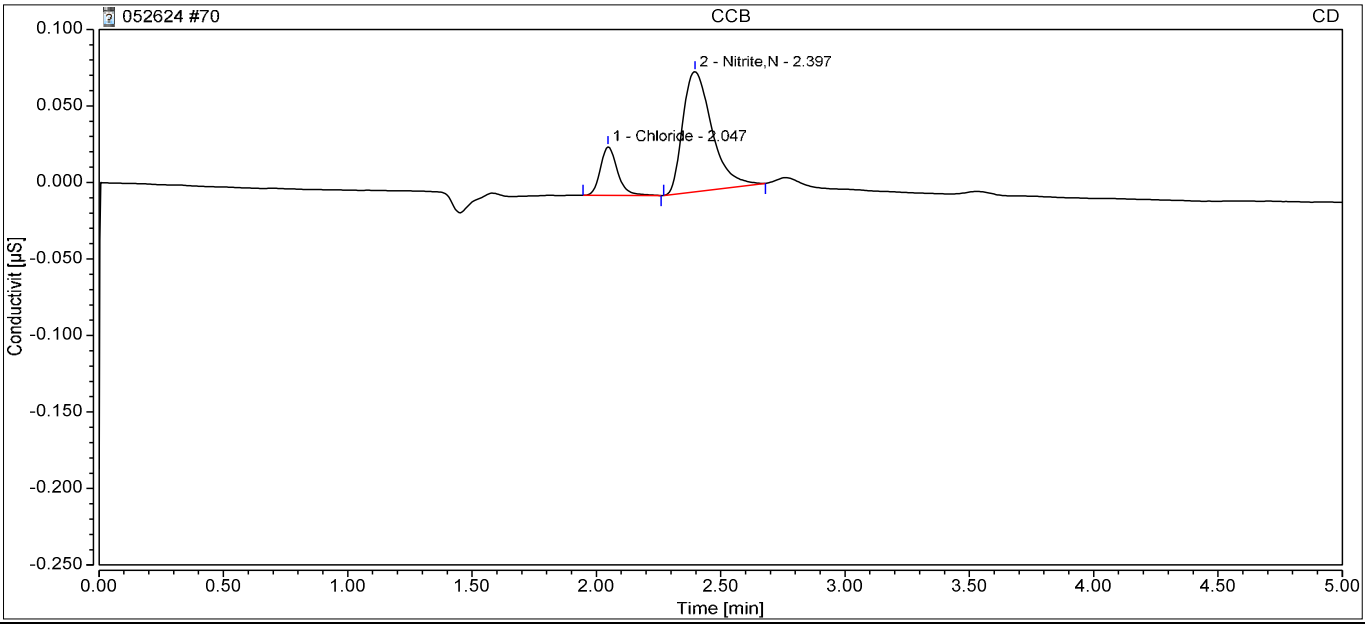
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.61	Fluoride	BMB	2.196	11.1754	11.1754	1.0000
2	2.05	Chloride	BMB	7.587	49.2563	49.2563	1.0000
3	2.37	Nitrite,N	BMB	2.985	9.7911	9.7911	1.0000
4	2.75	Sulfate	BMB	5.106	50.0278	50.0278	1.0000
5	3.04	Bromide	BMB	0.495	10.5885	10.5885	1.0000
6	3.47	Nitrate	BMB	3.460	10.1800	10.1800	1.0000
7	3.73	Chlorate	BMB	0.364	11.5263	11.5263	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**22.194**		**152.55**	

70 CCB

Sample Name:	**CCB**	*Injection Volume:*	**5.00**
Vial Number:	**R8**	*Channel:*	**CD**
Sample Type:	**Unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**05/26/2024 17:19**	*Sample Weight:*	**1.0000**

Run Time:



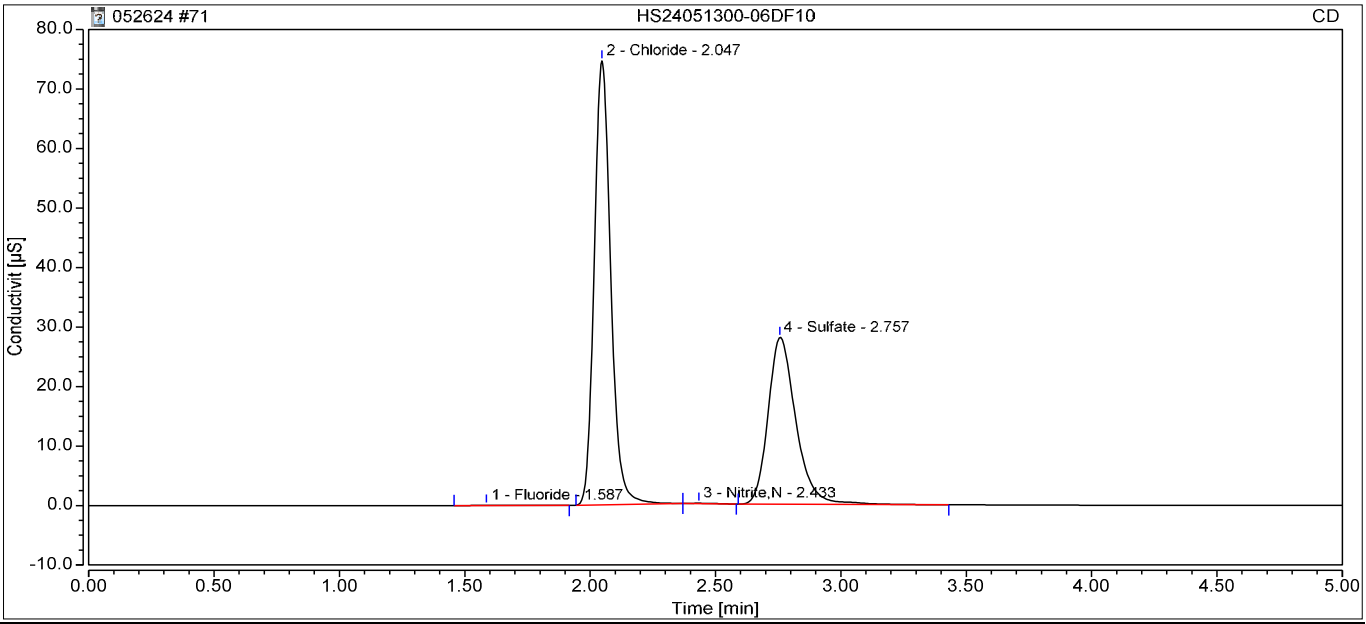
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
n.a.	n.a.	Fluoride	n.a.	n.a.	n.a.	n.a.	1.0000
1	2.05	Chloride	BMB	0.003	0.4027	0.4027	1.0000
2	2.40	Nitrite,N	BMB	0.011	0.0857	0.0857	1.0000
n.a.	n.a.	Sulfate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**0.013**		**0.49**	

71 HS24051300-06DF10

Sample Name:	**HS24051300-06DF10**	*Injection Volume:*	**5.00**
Vial Number:	**GA7**	*Channel:*	**CD**
Sample Type:	**Unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**10.0000**
Recording Time:	**05/26/2024 17:25**	*Sample Weight:*	**1.0000**

Run Time:



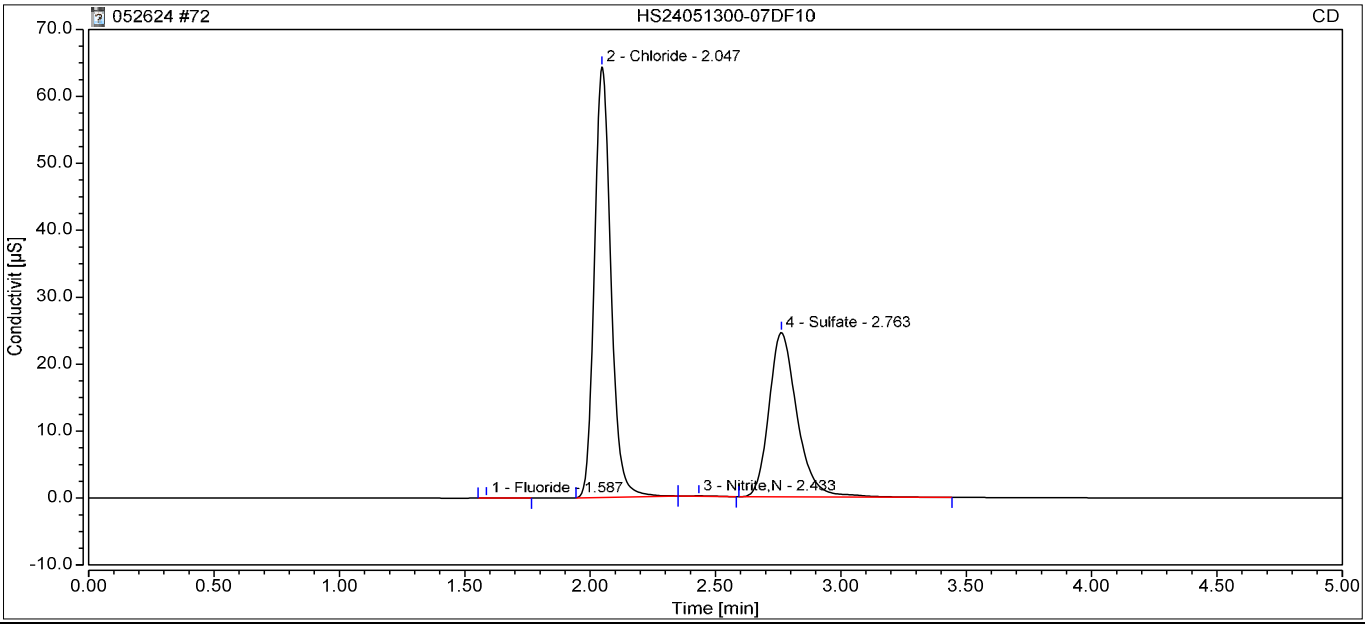
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.59	Fluoride	BMB	0.007	0.1512	1.5120	10.0000
2	2.05	Chloride	BMB	5.701	37.1059	371.0587	10.0000
3	2.43	Nitrite,N	BMB	0.007	0.0762	0.7617	10.0000
4	2.76	Sulfate	BMB	3.608	35.6642	356.6422	10.0000
n.a.	n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	10.0000
n.a.	n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	10.0000
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	10.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	10.0000
Total:			**0.000**	**9.323**		**729.97**	

72 HS24051300-07DF10

Sample Name:	**HS24051300-07DF10**	*Injection Volume:*	**5.00**
Vial Number:	**GA8**	*Channel:*	**CD**
Sample Type:	**Unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**10.0000**
Recording Time:	**05/26/2024 17:31**	*Sample Weight:*	**1.0000**

Run Time:



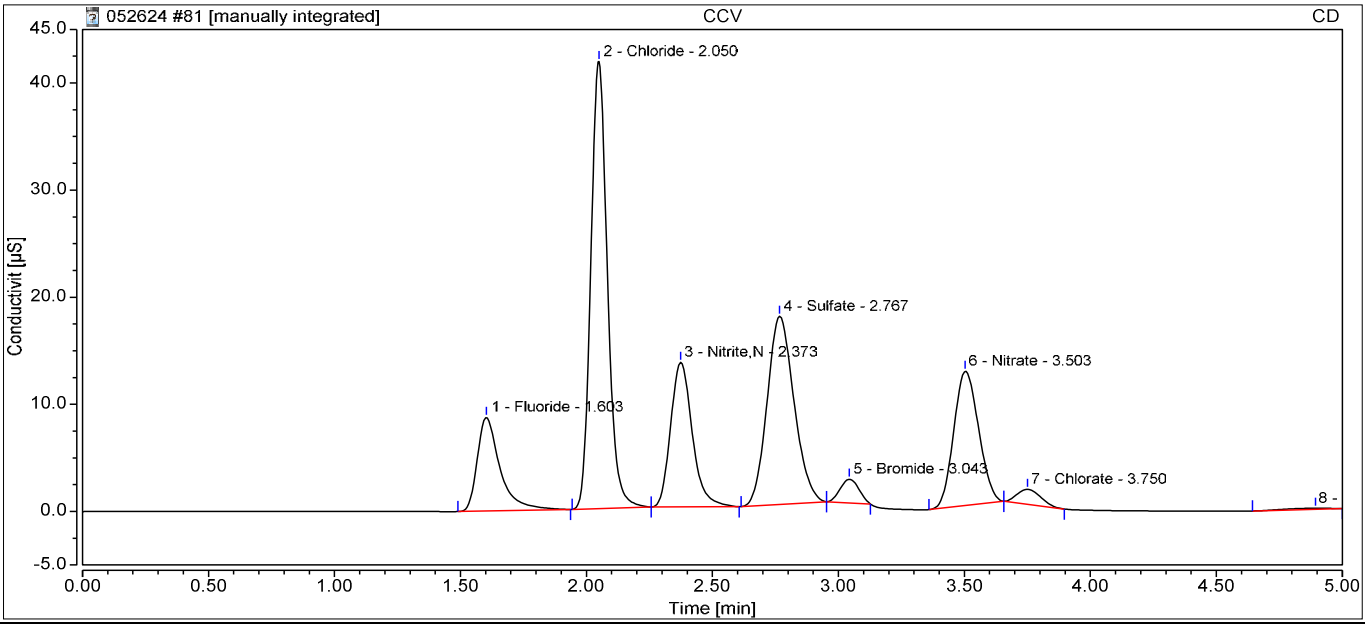
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.59	Fluoride	BMB	0.002	0.1216	1.2164	10.0000
2	2.05	Chloride	BMB	4.908	32.0005	320.0047	10.0000
3	2.43	Nitrite,N	BMB	0.008	0.0764	0.7642	10.0000
4	2.76	Sulfate	BMB	3.193	31.6595	316.5948	10.0000
n.a.	n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	10.0000
n.a.	n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	10.0000
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	10.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	10.0000
Total:			**0.000**	**8.110**		**638.58**	

81 CCV

Sample Name:	**CCV**	*Injection Volume:*	**5.00**
Vial Number:	**R1**	*Channel:*	**CD**
Sample Type:	**Unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**05/26/2024 18:53**	*Sample Weight:*	**1.0000**

Run Time:



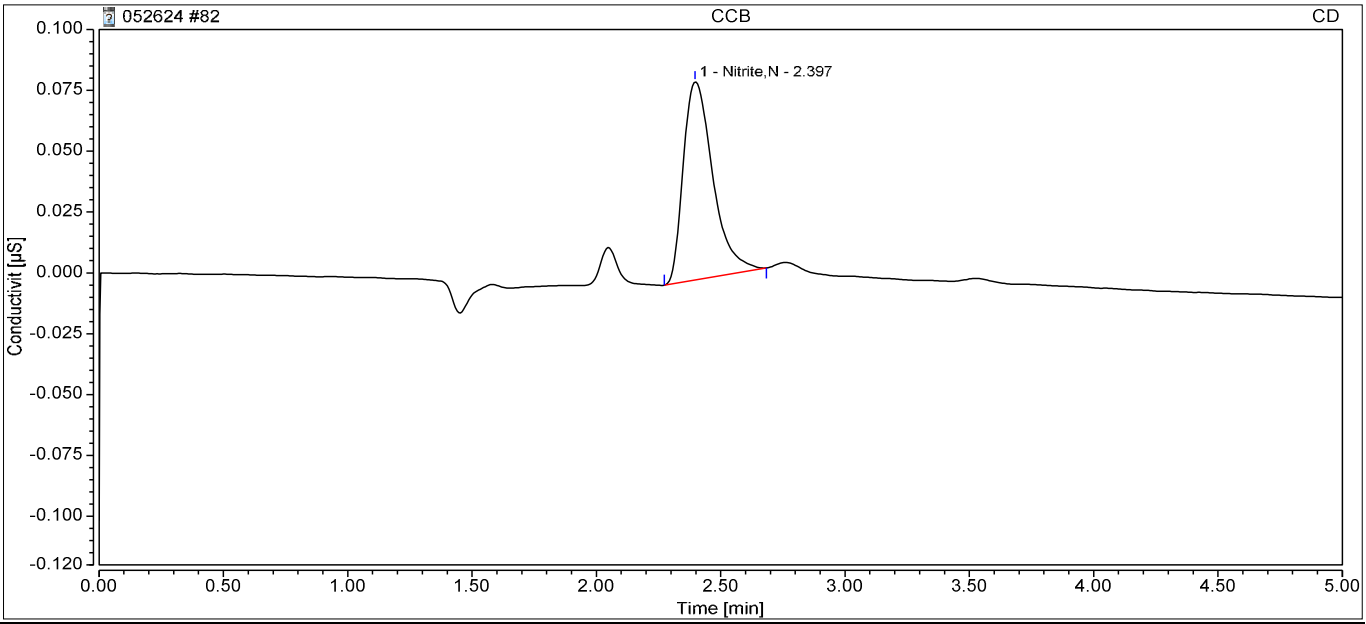
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.60	Fluoride	BMB	0.916	4.8782	4.8782	1.0000
2	2.05	Chloride	BMB	3.179	20.8643	20.8643	1.0000
3	2.37	Nitrite,N	BMB	1.343	4.1785	4.1785	1.0000
4	2.77	Sulfate	BMb*	2.172	21.7480	21.7480	1.0000
5	3.04	Bromide	bMB*	0.189	4.3534	4.3534	1.0000
6	3.50	Nitrate	BMB	1.436	4.2770	4.2770	1.0000
7	3.75	Chlorate	BMB	0.152	4.8910	4.8910	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**9.388**		**65.19**	

82 CCB

Sample Name:	**CCB**	*Injection Volume:*	**5.00**
Vial Number:	**R6**	*Channel:*	**CD**
Sample Type:	**Unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**05/26/2024 19:11**	*Sample Weight:*	**1.0000**

Run Time:



Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
n.a.	n.a.	Fluoride	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Chloride	n.a.	n.a.	n.a.	n.a.	1.0000
1	2.40	Nitrite,N	BMB	0.011	0.0874	0.0874	1.0000
n.a.	n.a.	Sulfate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**0.011**		**0.09**	

HS24051300 Wetchem TOC_W 5310B ICAL TABLE

ALS WO# HS24051300

	Type	Analysis	Sample Name	Sample ID	Origin	Manual Diluti	Result 01333607	Notes
1	Standard	NPOC	CAL	3100608307	04.25.2024.	1.000		
2	Unknown	NPOC	ICV	3100607917	04.25.2024.	1.000	NPOC:9.687mg/L	
3	Unknown	NPOC	ICB		04.25.2024.	1.000	NPOC:0.2979mg/L	
4	Unknown	NPOC	CCV	325104207	04.25.2024.	1.000	NPOC:25.03mg/L	
5	Unknown	NPOC	CCB		04.25.2024.	1.000	NPOC:0.06766mg/	
6	Unknown	NPOC	MBLK-04252024		04.25.2024.	1.000	NPOC:0.1478mg/L	
7	Unknown	NPOC	LCS-04252024	3100607917	04.25.2024.	1.000	NPOC:5.144mg/L	
8	Unknown	NPOC	LCSD-04052024		04.25.2024.	1.000	NPOC:5.082mg/L	
9	Unknown	NPOC	HS24041423-01		04.25.2024.	1.000	NPOC:6.750mg/L	
10	Unknown	NPOC	HS24041423-01MS		04.25.2024.	1.000	NPOC:15.86mg/L	
11	Unknown	NPOC	HS24041558-01		04.25.2024.	1.000	NPOC:0.01517mg/	
12	Unknown	NPOC	HS24040953-01		04.25.2024.	1.000	NPOC:10.42mg/L	
13	Unknown	NPOC	HS24040953-04		04.25.2024.	1.000	NPOC:7.332mg/L	
14	Unknown	NPOC	HS24040954-01		04.25.2024.	1.000	NPOC:4.335mg/L	
15	Unknown	NPOC	HS24040954-02		04.25.2024.	1.000	NPOC:8.586mg/L	
16	Unknown	NPOC	CCV	325104207	04.25.2024.	1.000	NPOC:25.04mg/L	
17	Unknown	NPOC	CCB		04.25.2024.	1.000	NPOC:0.09033mg/	
18	Unknown	NPOC	HS24040954-04		04.25.2024.	1.000	NPOC:4.829mg/L	
19	Unknown	NPOC	HS24040954-05		04.25.2024.	1.000	NPOC:0.8624mg/L	
20	Unknown	NPOC	HS24041487-01		04.25.2024.	1.000	NPOC:22.80mg/L	
21	Unknown	NPOC	HS24041698-01DF10		04.25.2024.	1.000	NPOC:0.9665mg/L	
22	Unknown	NPOC	CCV	325104207	04.25.2024.	1.000	NPOC:25.13mg/L	
23	Unknown	NPOC	CCB		04.25.2024.	1.000	NPOC:0.09643mg/	
24	Unknown	NPOC	CCV	325104207	TOC_W 906	1.000	NPOC:24.67mg/L	
25	Unknown	NPOC	CCB		TOC_W 906	1.000	NPOC:0.1426mg/L	
26	Unknown	NPOC	MBLK-04252024		TOC_W 906	1.000	NPOC:0.1161mg/L	
27	Unknown	NPOC	LCS-04252024	3100607917	TOC_W 906	1.000	NPOC:5.011mg/L	
28	Unknown	NPOC	LCSD-04052024		TOC_W 906	1.000	NPOC:5.047mg/L	
29	Unknown	NPOC	HS24041538-14DF10		TOC_W 906	1.000	NPOC:5.009mg/L	
30	Unknown	NPOC	HS24041538-15DF10		TOC_W 906	1.000	NPOC:3.637mg/L	
31	Unknown	NPOC	HS24041538-16DF10		TOC_W 906	1.000	NPOC:3.855mg/L	
32	Unknown	NPOC	HS24041538-17DF10		TOC_W 906	1.000	NPOC:6.520mg/L	
33	Unknown	NPOC	HS24040801-07		TOC_W 906	1.000	NPOC:4.786mg/L	
34	Unknown	NPOC	HS24040801-07MS		TOC_W 906	1.000	NPOC:12.22mg/L	
35	Unknown	NPOC	HS24040885-01		TOC_W 906	1.000	NPOC:59.40mg/L	
36	Unknown	NPOC	CCV	325104207	TOC_W 906	1.000	NPOC:24.81mg/L	
37	Unknown	NPOC	CCB		TOC_W 906	1.000	NPOC:0.2311mg/L	
38	Unknown	NPOC	HS24040885-02		TOC_W 906	1.000	NPOC:40.86mg/L	
39	Unknown	NPOC	HS24040885-03		TOC_W 906	1.000	NPOC:44.30mg/L	
40	Unknown	NPOC	HS24040885-06		TOC_W 906	1.000	NPOC:76.29mg/L	
41	Unknown	NPOC	HS24041341-11DF10		TOC_W 906	1.000	NPOC:9.155mg/L	
42	Unknown	NPOC	HS24041341-12DF10		TOC_W 906	1.000	NPOC:2.129mg/L	
43	Unknown	NPOC	HS24041341-13DF10		TOC_W 906	1.000	NPOC:20.08mg/L	
44	Unknown	NPOC	HS24041341-14DF10		TOC_W 906	1.000	NPOC:2.533mg/L	
45	Unknown	NPOC	HS24041604-08DF10		TOC_W 906	1.000	NPOC:1.071mg/L	
46	Unknown	NPOC	CCV	325104207	TOC_W 906	1.000	NPOC:24.86mg/L	
47	Unknown	NPOC	CCB		TOC_W 906	1.000	NPOC:0.1935mg/L	

01333608

	Status	Date / Time	Vial
1	Completed	4/25/2024 8:19:26	1, 2, 3, 4, 5,
2	Completed	4/25/2024 8:31:26	8
3	Completed	4/25/2024 8:51:24	1
4	Completed	4/25/2024 9:14:05	9
5	Completed	4/25/2024 9:23:12	10
6	Completed	4/25/2024 9:33:46	11
7	Completed	4/25/2024 9:45:46	12
8	Completed	4/25/2024 9:57:15	13
9	Completed	4/25/2024 10:08:5	14
10	Completed	4/25/2024 10:21:0	15
11	Completed	4/25/2024 10:29:5	16
12	Completed	4/25/2024 10:42:5	17
13	Completed	4/25/2024 10:54:4	18
14	Completed	4/25/2024 11:05:5	19
15	Completed	4/25/2024 11:17:2	20
16	Completed	4/25/2024 11:40:1	9
17	Completed	4/25/2024 11:49:1	10
18	Completed	4/26/2024 12:11:1	21
19	Completed	4/26/2024 12:21:3	22
20	Completed	4/26/2024 12:33:5	23
21	Completed	4/26/2024 12:44:1	24
22	Completed	4/26/2024 1:06:44	9
23	Completed	4/26/2024 1:15:39	10
24	Completed	4/26/2024 1:34:03	25
25	Completed	4/26/2024 1:45:52	26
26	Completed	4/26/2024 2:00:42	11
27	Completed	4/26/2024 2:14:48	12
28	Completed	4/26/2024 2:29:16	13
29	Completed	4/26/2024 2:46:43	27
30	Completed	4/26/2024 3:00:36	28
31	Completed	4/26/2024 3:14:21	29
32	Completed	4/26/2024 3:28:38	30
33	Completed	4/26/2024 3:42:41	31
34	Completed	4/26/2024 3:57:39	32
35	Completed	4/26/2024 4:13:23	33
36	Completed	4/26/2024 4:31:56	25
37	Completed	4/26/2024 4:43:46	26
38	Completed	4/26/2024 5:02:09	34
39	Completed	4/26/2024 5:17:31	35
40	Completed	4/26/2024 5:33:05	36
41	Completed	4/26/2024 5:47:28	37
42	Completed	4/26/2024 6:00:56	38
43	Completed	4/26/2024 6:16:22	39
44	Completed	4/26/2024 6:29:56	40
45	Completed	4/26/2024 6:42:50	41
46	Completed	4/26/2024 7:01:22	25
47	Completed	4/26/2024 7:12:55	26

HS24051300 Wetchem TOC_W 5310B ICAL

ALS WO# HS24051300

TOC-Control L Report

Instr.Information

Instrument Options	TOC/ASI/IC Unit/Sparge Kit/
Catalyst	Regular Sensitivity

Cal. Curve

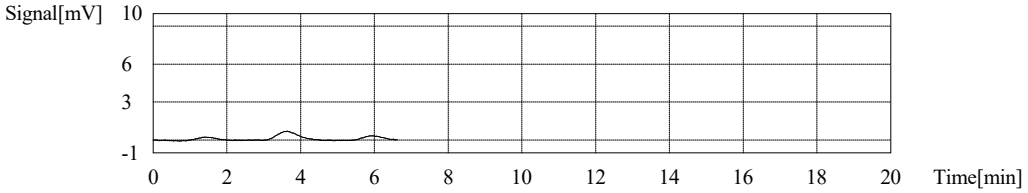
Sample Name:	CAL
Sample ID:	3100608307
Cal. Curve:	04.25.2024.2024_04_25_18_47_38.cal
Status	Completed

Type	Anal.
Standard	NPOC

Conc: 0.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	1.030	50uL	1.000	*******		4/25/2024 7:02:15 PM
2	2.685	50uL	1.000	*******		4/25/2024 7:05:10 PM
3	1.273	50uL	1.000	*******		4/25/2024 7:07:50 PM

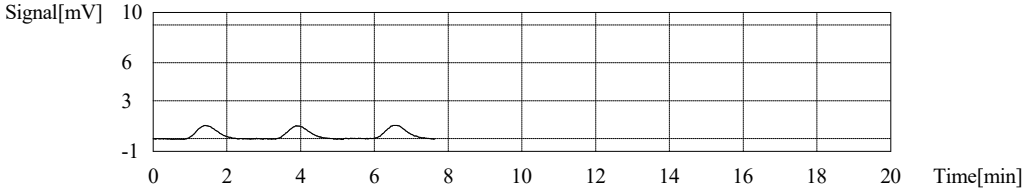
Acid Add. 1.500%
Sp. Time 540.0sec
Mean Area 1.663



Conc: 1.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	4.254	50uL	1.000	*******		4/25/2024 7:12:34 PM
2	4.362	50uL	1.000	*******		4/25/2024 7:15:50 PM
3	4.292	50uL	1.000	*******		4/25/2024 7:18:54 PM

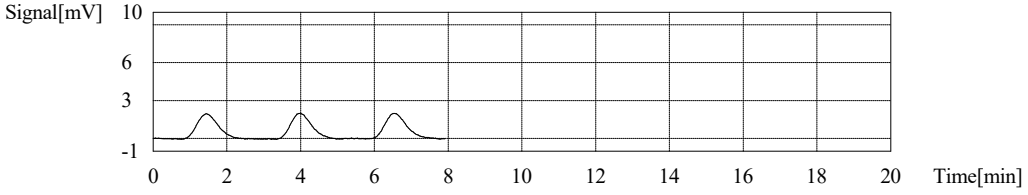
Acid Add. 1.500%
Sp. Time 540.0sec
Mean Area 4.303



Conc: 2.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	7.991	50uL	1.000	*******		4/25/2024 7:23:28 PM
2	8.033	50uL	1.000	*******		4/25/2024 7:26:37 PM
3	8.185	50uL	1.000	*******		4/25/2024 7:29:59 PM

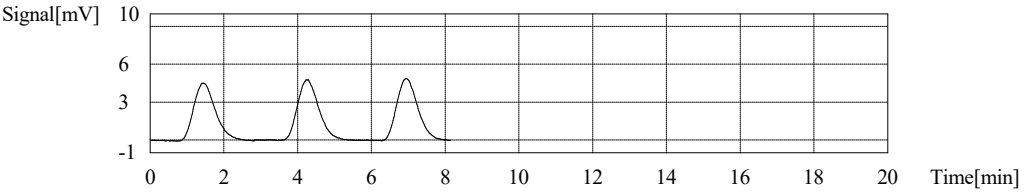
Acid Add. 1.500%
Sp. Time 540.0sec
Mean Area 8.070



Conc: 5.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	18.78	50uL	1.000	*******		4/25/2024 7:34:48 PM
2	19.04	50uL	1.000	*******		4/25/2024 7:38:05 PM
3	19.36	50uL	1.000	*******		4/25/2024 7:41:18 PM

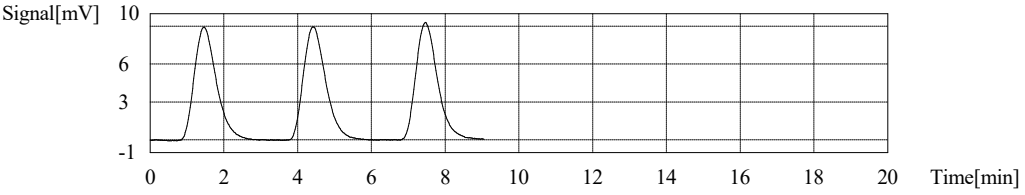
Acid Add. 1.500%
Sp. Time 540.0sec
Mean Area 19.06



Conc: 10.00mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	37.50	50uL	1.000	*******		4/25/2024 7:46:16 PM
2	37.56	50uL	1.000	*******		4/25/2024 7:49:55 PM
3	37.73	50uL	1.000	*******		4/25/2024 7:53:31 PM

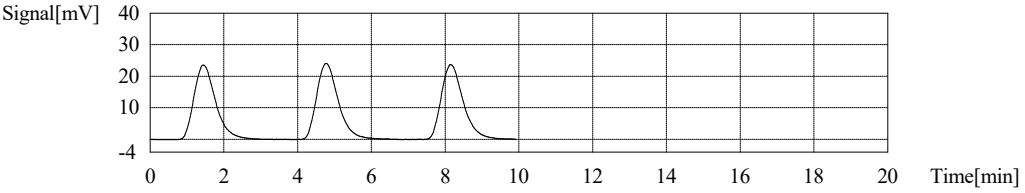
Acid Add. 1.500%
Sp. Time 540.0sec
Mean Area 37.60



Conc: 25.00mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	96.41	50uL	1.000	*******		4/25/2024 7:58:51 PM
2	97.85	50uL	1.000	*******		4/25/2024 8:02:48 PM
3	97.79	50uL	1.000	*******		4/25/2024 8:06:36 PM

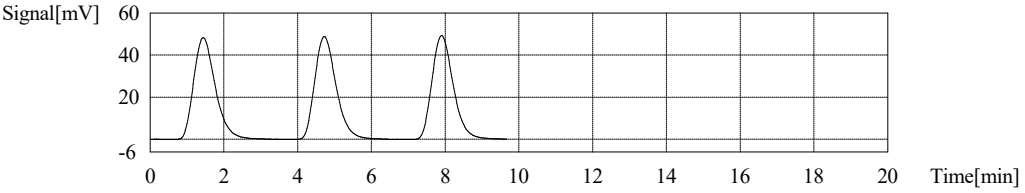
Acid Add. 1.500%
Sp. Time 540.0sec
Mean Area 97.35



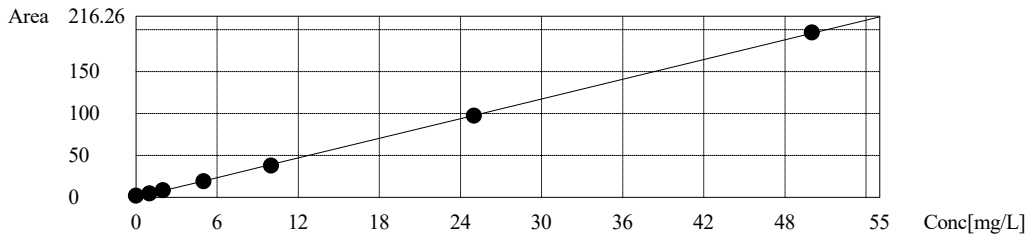
Conc: 50.00mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	196.6	50uL	1.000	*******		4/25/2024 8:11:53 PM
2	196.0	50uL	1.000	*******		4/25/2024 8:15:38 PM
3	197.2	50uL	1.000	*******		4/25/2024 8:19:26 PM

Acid Add. 1.500%
Sp. Time 540.0sec
Mean Area 196.6



Slope:	3.917
Intercept	0.000
r^2	0.9998
r	0.9999
RSE(%)	N/A
Zero Shift	Yes



Sample

Sample Name:	ICV
Sample ID:	3100607917
Origin:	04.25.2024.cal
Status	Completed
Chk. Result	

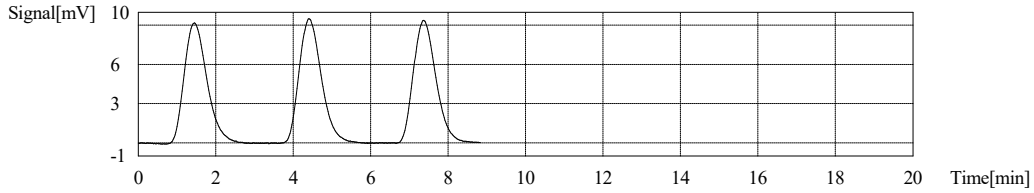
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:9.687mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	37.83	9.657mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	4/25/2024 8:24:23 PM
2	38.23	9.759mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	4/25/2024 8:27:56 PM
3	37.78	9.644mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	4/25/2024 8:31:26 PM

Mean Area	37.95
Mean Conc.	9.687mg/L



Sample

Sample Name:	ICB
Sample ID:	
Origin:	04.25.2024.cal
Status	Completed
Chk. Result	

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.2979mg/L

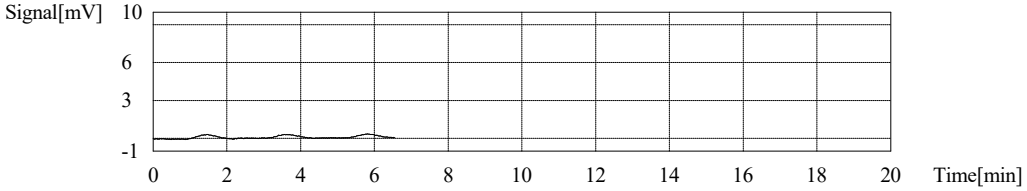
1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	1.387	0.3541mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	4/25/2024 8:45:53 PM
2	1.077	0.2749mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	4/25/2024 8:48:39 PM
3	1.037	0.2647mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	4/25/2024 8:51:24 PM

TOC-Control L Report

Mean Area	1.167
Mean Conc.	0.2979mg/L



HS24051300 Wetchem TOC_W 5310B INJECT TABLE

ALS WO# HS24051300

	Type	Analysis	Sample Name	Sample ID	Origin	Manual Diluti	Result 01333615	Notes
1	Unknown	NPOC	CCV	325104207	04.25.2024.	1.000	NPOC:25.14mg/L	
2	Unknown	NPOC	CCB		04.25.2024.	1.000	NPOC:0.06053mg/	
3	Unknown	NPOC	MBLK-06052024		04.25.2024.	1.000	NPOC:0.06071mg/	
4	Unknown	NPOC	LCS-06052024	3100607917	04.25.2024.	1.000	NPOC:9.736mg/L	
5	Unknown	NPOC	LCSD-06052024		04.25.2024.	1.000	NPOC:9.789mg/L	
6	Unknown	NPOC	HS24051271-01DF10		04.25.2024.	1.000	NPOC:1.686mg/L	
7	Unknown	NPOC	HS24051885-01		04.25.2024.	1.000	NPOC:3.152mg/L	
8	Unknown	NPOC	HS24051885-01MS		04.25.2024.	1.000	NPOC:11.65mg/L	
9	Unknown	NPOC	HS24051885-02		04.25.2024.	1.000	NPOC:3.736mg/L	
10	Unknown	NPOC	HS24051885-03		04.25.2024.	1.000	NPOC:2.591mg/L	
11	Unknown	NPOC	CCV	325104207	04.25.2024.	1.000	NPOC:25.30mg/L	
12	Unknown	NPOC	CCB		04.25.2024.	1.000	NPOC:0.1230mg/L	
13	Unknown	NPOC	HS24051885-04DF10		04.25.2024.	1.000	NPOC:1.414mg/L	
14	Unknown	NPOC	HS24051885-05DF10		04.25.2024.	1.000	NPOC:0.7575mg/L	
15	Unknown	NPOC	HS24051885-06		04.25.2024.	1.000	NPOC:24.21mg/L	
16	Unknown	NPOC	CCV	325104207	04.25.2024.	1.000	NPOC:25.14mg/L	
17	Unknown	NPOC	CCB		04.25.2024.	1.000	NPOC:0.1071mg/L	
18	Unknown	NPOC	MBLK-06052024		04.25.2024.	1.000	NPOC:0.01916mg/	
19	Unknown	NPOC	LCS-06052024	3100607917	04.25.2024.	1.000	NPOC:9.882mg/L	
20	Unknown	NPOC	LCSD-06052024		04.25.2024.	1.000	NPOC:9.647mg/L	
21	Unknown	NPOC	HS24051300-05		04.25.2024.	1.000	NPOC:5.137mg/L	
22	Unknown	NPOC	HS24051300-05MS		04.25.2024.	1.000	NPOC:10.56mg/L	
23	Unknown	NPOC	HS24051300-06		04.25.2024.	1.000	NPOC:7.747mg/L	
24	Unknown	NPOC	HS24051300-07		04.25.2024.	1.000	NPOC:4.761mg/L	
25	Unknown	NPOC	HS24051304-01		04.25.2024.	1.000	NPOC:1.849mg/L	
26	Unknown	NPOC	CCV	325104207	04.25.2024.	1.000	NPOC:24.97mg/L	
27	Unknown	NPOC	CCB		04.25.2024.	1.000	NPOC:0.1384mg/L	
28	Unknown	NPOC	CCV	325104207	TOC_W 906	1.000	NPOC:25.09mg/L	
29	Unknown	NPOC	CCB		TOC_W 906	1.000	NPOC:0.06278mg/	
30	Unknown	NPOC	MBLK-06052024		TOC_W 906	1.000	NPOC:0.07082mg/	
31	Unknown	NPOC	LCS-06052024	3100607917	TOC_W 906	1.000	NPOC:9.696mg/L	
32	Unknown	NPOC	LCSD-06052024		TOC_W 906	1.000	NPOC:9.680mg/L	
33	Unknown	NPOC	HS24051292-01		TOC_W 906	1.000	NPOC:9.834mg/L	
34	Unknown	NPOC	HS24051292-02		TOC_W 906	1.000	NPOC:2.979mg/L	
35	Unknown	NPOC	HS24051292-03		TOC_W 906	1.000	NPOC:3.132mg/L	
36	Unknown	NPOC	HS24051292-03MS		TOC_W 906	1.000	NPOC:11.22mg/L	
37	Unknown	NPOC	HS24051292-04		TOC_W 906	1.000	NPOC:3.615mg/L	
38	Unknown	NPOC	HS24051292-05		TOC_W 906	1.000	NPOC:3.361mg/L	
39	Unknown	NPOC	HS24051292-06		TOC_W 906	1.000	NPOC:2.397mg/L	
40	Unknown	NPOC	CCV	325104207	TOC_W 906	1.000	NPOC:24.99mg/L	
41	Unknown	NPOC	CCB		TOC_W 906	1.000	NPOC:0.2046mg/L	
42	Unknown	NPOC	HS24051292-07		TOC_W 906	1.000	NPOC:8.964mg/L	
43	Unknown	NPOC	HS24051292-08		TOC_W 906	1.000	NPOC:5.066mg/L	
44	Unknown	NPOC	HS24051411-01		TOC_W 906	1.000	NPOC:1.027mg/L	
45	Unknown	NPOC	HS24051411-02		TOC_W 906	1.000	NPOC:1.245mg/L	
46	Unknown	NPOC	HS24051895-01		TOC_W 906	1.000	NPOC:670.9mg/L	
47	Unknown	NPOC	HS24051895-02		TOC_W 906	1.000	NPOC:22.22mg/L	
48	Unknown	NPOC	HS24051895-03		TOC_W 906	1.000	NPOC:81.83mg/L	
49	Unknown	NPOC	HS24051895-04		TOC_W 906	1.000	NPOC:8.377mg/L	
50	Unknown	NPOC	CCV	325104207	TOC_W 906	1.000	NPOC:24.98mg/L	
51	Unknown	NPOC	CCB		TOC_W 906	1.000	NPOC:0.2075mg/L	
52	Unknown	NPOC	CCV	325104207	TOC_W 906	1.000	NPOC:25.22mg/L	
53	Unknown	NPOC	CCB		TOC_W 906	1.000	NPOC:0.07007mg/	

01333616

	Status	Date / Time	Vial
1	Completed	6/5/2024 6:46:12 PM	1
2	Completed	6/5/2024 6:55:28 PM	2
3	Completed	6/5/2024 7:05:31 PM	3
4	Completed	6/5/2024 7:18:37 PM	4
5	Completed	6/5/2024 7:30:52 PM	5
6	Completed	6/5/2024 7:42:09 PM	6
7	Completed	6/5/2024 7:54:11 PM	7
8	Completed	6/5/2024 8:06:56 PM	8
9	Completed	6/5/2024 8:18:42 PM	9
10	Completed	6/5/2024 8:29:59 PM	10
11	Completed	6/5/2024 9:12:29 PM	1
12	Completed	6/5/2024 9:22:12 PM	2
13	Completed	6/5/2024 9:43:47 PM	11
14	Completed	6/5/2024 9:54:39 PM	12
15	Completed	6/5/2024 10:07:15 PM	13
16	Completed	6/5/2024 10:50:09 PM	1
17	Completed	6/5/2024 10:59:43 PM	2
18	Completed	6/5/2024 11:09:09 PM	3
19	Completed	6/5/2024 11:22:22 PM	4
20	Completed	6/5/2024 11:34:29 PM	5
21	Completed	6/5/2024 11:56:48 PM	14
22	Completed	6/6/2024 12:09:01 AM	15
23	Completed	6/6/2024 12:21:06 AM	16
24	Completed	6/6/2024 12:32:50 AM	17
25	Completed	6/6/2024 12:43:41 AM	18
26	Completed	6/6/2024 1:26:37 AM	19
27	Completed	6/6/2024 1:36:23 AM	20
28	Completed	6/6/2024 2:03:15 AM	19
29	Completed	6/6/2024 2:14:55 AM	20
30	Completed	6/6/2024 2:37:09 AM	3
31	Completed	6/6/2024 2:52:59 AM	4
32	Completed	6/6/2024 3:09:00 AM	5
33	Completed	6/6/2024 3:35:11 AM	21
34	Completed	6/6/2024 3:49:57 AM	22
35	Completed	6/6/2024 4:05:09 AM	23
36	Completed	6/6/2024 4:20:52 AM	24
37	Completed	6/6/2024 4:35:52 AM	25
38	Completed	6/6/2024 4:50:31 AM	26
39	Completed	6/6/2024 5:15:17 AM	27
40	Completed	6/6/2024 6:04:43 AM	28
41	Completed	6/6/2024 6:17:22 AM	29
42	Completed	6/6/2024 6:32:54 AM	30
43	Completed	6/6/2024 6:48:17 AM	31
44	Completed	6/6/2024 7:02:18 AM	32
45	Completed	6/6/2024 7:16:12 AM	33
46	Completed	6/6/2024 7:34:40 AM	34
47	Completed	6/6/2024 7:52:28 AM	35
48	Completed	6/6/2024 8:08:42 AM	36
49	Completed	6/6/2024 8:25:03 AM	37
50	Completed	6/6/2024 9:14:16 AM	28
51	Completed	6/6/2024 9:27:03 AM	29
52	Completed	6/6/2024 10:56:36 AM	38
53	Completed	6/6/2024 11:08:47 AM	39

	Type	Analysis	Sample Name	Sample ID	Origin	Manual Diluti	Result 01333617	Notes
54	Unknown	NPOC	HS24051895-01DF50		TOC_W 906	1.000	NPOC:11.79mg/L	
55	Unknown	NPOC	HS24051895-02		TOC_W 906	1.000	NPOC:20.62mg/L	
56	Unknown	NPOC	HS24051895-03DF10		TOC_W 906	1.000	NPOC:8.580mg/L	
57	Unknown	NPOC	CCV	325104207	TOC_W 906	1.000	NPOC:25.14mg/L	
58	Unknown	NPOC	CCB		TOC_W 906	1.000	NPOC:0.1254mg/L	

	Status	Date / Time	Vial
54	Completed	6/6/2024 11:24:37 AM	40
55	Completed	6/6/2024 11:42:55 AM	41
56	Completed	6/6/2024 11:58:28 AM	42
57	Completed	6/6/2024 12:25:19 PM	38
58	Completed	6/6/2024 12:37:59 PM	39

01333618

HS24051300 Wetchem TOC_W 5310B INJECT

ALS WO# HS24051300

TOC-Control L Report

Instr.Information

Instrument Options: TOC/ASI/IC Unit/Sparge Kit/
Catalyst: Regular Sensitivity

Sample

Sample Name: CCV
Sample ID: 325104207
Origin: 04.25.2024.cal
Status: Completed
Chk. Result

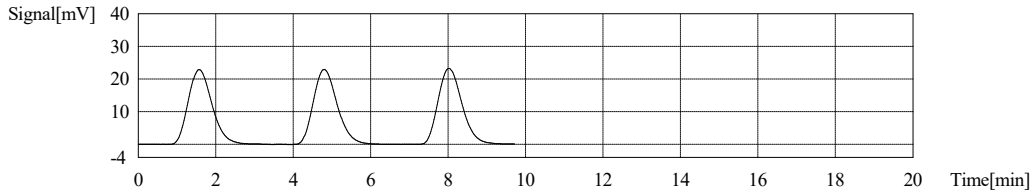
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:25.14mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	97.60	24.91mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	6/5/2024 10:42:30 PM
2	98.71	25.20mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	6/5/2024 10:46:19 PM
3	99.15	25.31mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	6/5/2024 10:50:09 PM

Mean Area 98.49
Mean Conc. 25.14mg/L



Sample

Sample Name: CCB
Sample ID:
Origin: 04.25.2024.cal
Status: Completed
Chk. Result

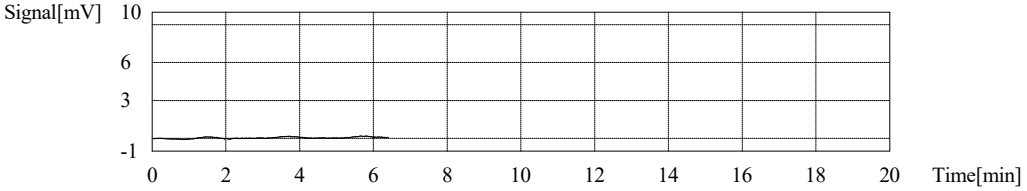
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.1071mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.5186	0.1324mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	6/5/2024 10:54:17 PM
2	0.3473	0.08866mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	6/5/2024 10:56:54 PM
3	0.3932	0.1004mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	6/5/2024 10:59:43 PM

Mean Area 0.4197
Mean Conc. 0.1071mg/L



Sample

Sample Name: MBLK-06052024
Sample ID:
Origin: 04.25.2024.cal
Status Completed
Chk. Result

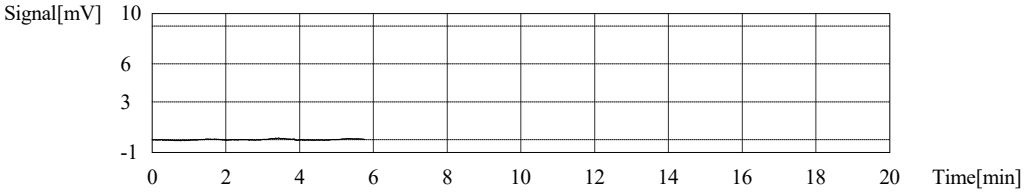
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.01916mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.000	0.000mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	6/5/2024 11:04:07 PM
2	0.2252	0.05749mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	6/5/2024 11:06:40 PM
3	0.000	0.000mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	6/5/2024 11:09:09 PM

Mean Area 0.07507
Mean Conc. 0.01916mg/L



Sample

Sample Name: LCS-06052024
Sample ID: 3100607917
Origin: 04.25.2024.cal
Status Completed
Chk. Result

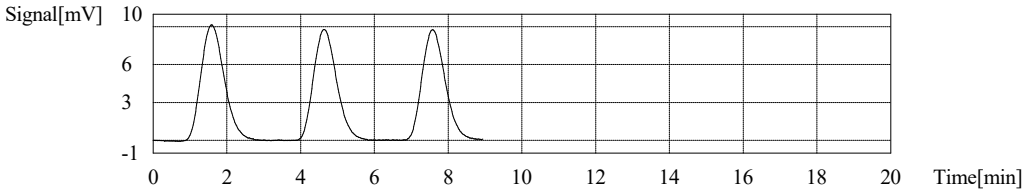
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:9.882mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	40.38	10.31mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	6/5/2024 11:15:19 PM
2	38.11	9.728mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	6/5/2024 11:18:51 PM
3	37.64	9.608mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	6/5/2024 11:22:22 PM

Mean Area 38.71
Mean Conc. 9.882mg/L



Sample

Sample Name: LCSD-06052024
Sample ID:
Origin: 04.25.2024.cal
Status Completed
Chk. Result

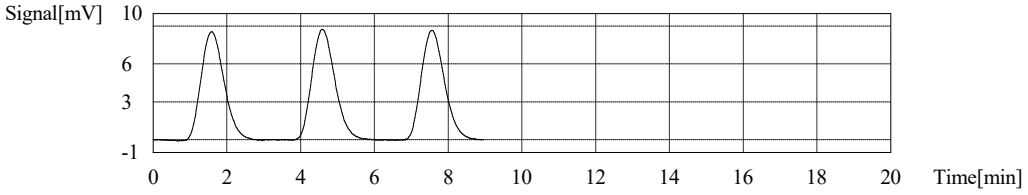
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:9.647mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	37.47	9.565mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	6/5/2024 11:27:22 PM
2	37.98	9.695mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	6/5/2024 11:30:57 PM
3	37.92	9.680mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	6/5/2024 11:34:29 PM

Mean Area 37.79
Mean Conc. 9.647mg/L



Sample

Sample Name: HS24051300-05
Sample ID:
Origin: 04.25.2024.cal
Status Completed
Chk. Result

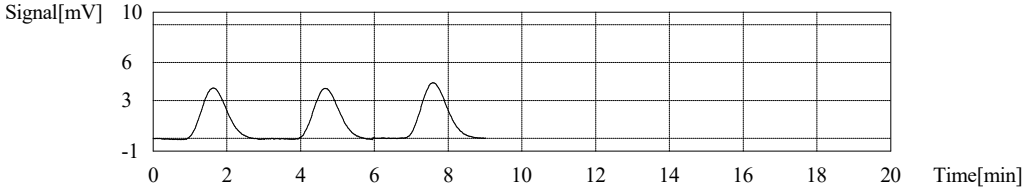
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:5.137mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	19.64	5.014mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	6/5/2024 11:49:38 PM
2	19.46	4.968mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	6/5/2024 11:53:09 PM
3	21.27	5.430mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	6/5/2024 11:56:48 PM

Mean Area 20.12
Mean Conc. 5.137mg/L



Sample

Sample Name: HS24051300-05MS
Sample ID:
Origin: 04.25.2024.cal
Status Completed
Chk. Result

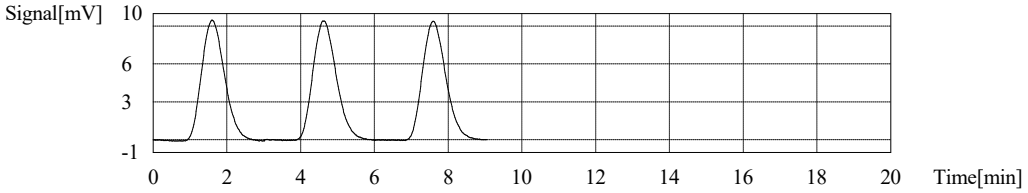
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:10.56mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	41.35	10.56mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	6/6/2024 12:01:49 AM
2	41.55	10.61mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	6/6/2024 12:05:23 AM
3	41.23	10.52mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	6/6/2024 12:09:01 AM

Mean Area 41.38
Mean Conc. 10.56mg/L



Sample

Sample Name: HS24051300-06
Sample ID:
Origin: 04.25.2024.cal
Status Completed
Chk. Result

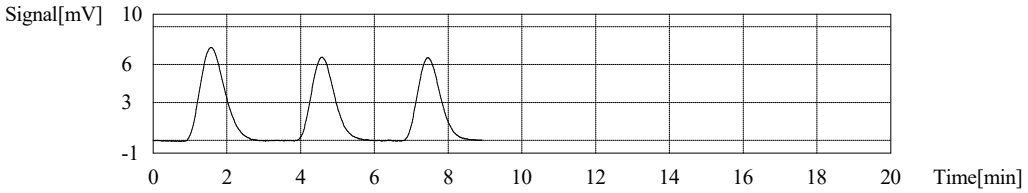
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:7.747mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	34.40	8.781mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	6/6/2024 12:14:04 AM
2	28.64	7.311mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	6/6/2024 12:17:32 AM
3	28.01	7.150mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	6/6/2024 12:21:06 AM

Mean Area 30.35
Mean Conc. 7.747mg/L



Sample

Sample Name: HS24051300-07
Sample ID:
Origin: 04.25.2024.cal
Status Completed
Chk. Result

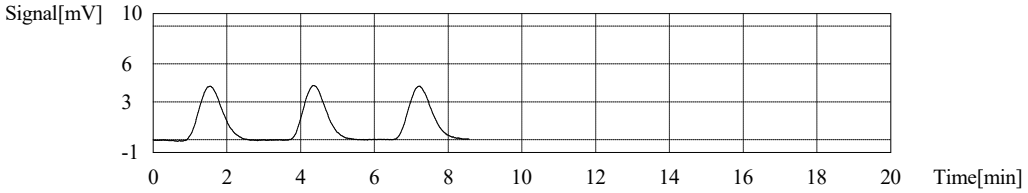
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:4.761mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	19.18	4.896mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	6/6/2024 12:25:56 AM
2	18.40	4.697mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	6/6/2024 12:29:22 AM
3	18.37	4.689mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	6/6/2024 12:32:50 AM

Mean Area 18.65
Mean Conc. 4.761mg/L



Sample

Sample Name: CCV
Sample ID: 325104207
Origin: 04.25.2024.cal
Status Completed
Chk. Result

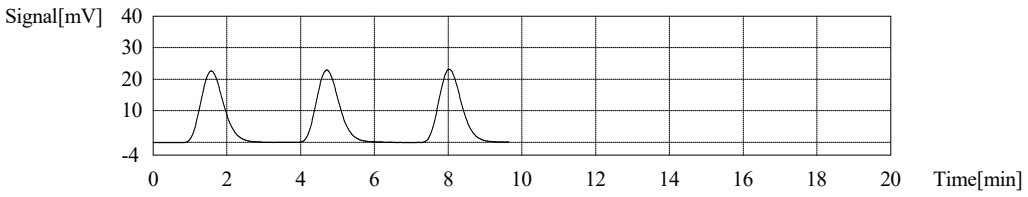
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:24.97mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	97.34	24.85mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	6/6/2024 1:18:56 AM
2	97.90	24.99mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	6/6/2024 1:22:50 AM
3	98.22	25.07mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	6/6/2024 1:26:37 AM

Mean Area 97.82
Mean Conc. 24.97mg/L



Sample

Sample Name: CCB
Sample ID:
Origin: 04.25.2024.cal
Status Completed
Chk. Result

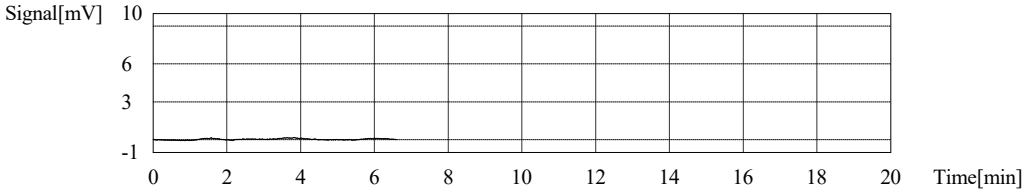
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.1384mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.5777	0.1475mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	6/6/2024 1:30:47 AM
2	0.6811	0.1739mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	6/6/2024 1:33:41 AM
3	0.3673	0.09376mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	6/6/2024 1:36:23 AM

Mean Area 0.5420
Mean Conc. 0.1384mg/L



HS24051300 E2400566 Perch Level IV Report

ALS WO# HS24051300

June 05, 2024 Service Request No:E2400566

Luis Aguilar
ALS Environmental - US
10450 Stancliff Rd Suite 210
Houston, TX 77099

Laboratory Results for: HS24051300

Dear Luis,

Enclosed are the results of the sample(s) submitted to our laboratory May 22, 2024
For your reference, these analyses have been assigned our service request number **E2400566.**

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 2190. You may also contact me via email at hussam.kelany@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

H Kelany

Hussam Kelany
Project Manager

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

Client:	ALS Environmental - US	**Service Request No.:**	E2400566
Project:	HS24051300	**Date Received:**	05/22/24
Sample Matrix:	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 IV. When appropriate to the method, method blank results have been reported with each analytical test.

Sample Receipt

Nine samples were received for analysis at ALS Environmental in Houston on 05/22/24.

The samples were received in good condition and are 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:

EQ2400268: Laboratory Control Spike/Duplicate Laboratory Control Spike (LCS/DLCS) samples were analyzed and reported in lieu of a MS/MSD for this extraction batch.

IB20240531-067 had insufficient volume. No contamination detected. CCVs passed. Data not affected.

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:**E2400566

Project: HS24051300

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
E2400566-001	50WW16_052024	5/20/2024	0950
E2400566-002	50WW18_052024	5/20/2024	1040
E2400566-003	50WW22_052024	5/20/2024	1130
E2400566-004	50WW15_052024	5/20/2024	1215
E2400566-005	50WW14_052124	5/21/2024	0715
E2400566-006	50WW13_052124	5/21/2024	0800
E2400566-007	50WW11_052124	5/21/2024	0850
E2400566-008	50WW05_052124	5/21/2024	0935
E2400566-009	50WW29_052124	5/21/2024	1025

Service Request Summary

01333631

9 120 mL-Plastic Bottle Natural WM Unpreserved

Location: EHRMS-WIC 5D

Pressure Gas:

Folder #: **E2400566**
Client Name: ALS Environmental - US
Project Name: HS24051300
Project Number:

Report To: Luis Aguilar
ALS Environmental - US
10450 Stancliff Rd Suite 210
Houston, TX 77099
USA
Phone Number:
Cell Number:
Fax Number:
E-mail: luis.aguilar@alsglobal.com

Project Chemist: Hussam Kelany
Originating Lab: HOUSTON
Logged By: JCORONADO2
Date Received: 05/22/24
Internal Due Date: 6/6/2024
QAP: LAB QAP
Qualifier Set: Lab Standard
Formset: Lab Standard
Merged?: Y
Report to MDL?: Y
P.O. Number:
EDD: BASIC_WQC_CASNo

Lab Samp No.	Client Samp No	Matrix	Collected	HOUSTON ClO4 DOD/6850
E2400566-001	50WW16_052024	Water	05/20/24 0950	**IV**
E2400566-002	50WW18_052024	Water	05/20/24 1040	**IV**
E2400566-003	50WW22_052024	Water	05/20/24 1130	**IV**
E2400566-004	50WW15_052024	Water	05/20/24 1215	**IV**
E2400566-005	50WW14_052124	Water	05/21/24 0715	**IV**
E2400566-006	50WW13_052124	Water	05/21/24 0800	**IV**
E2400566-007	50WW11_052124	Water	05/21/24 0850	**IV**
E2400566-008	50WW05_052124	Water	05/21/24 0935	**IV**
E2400566-009	50WW29_052124	Water	05/21/24 1025	**IV**

Service Request Summary

Folder #: **E2400566**
Client Name: ALS Environmental - US
Project Name: HS24051300
Project Number:

Report To: Luis Aguilar
ALS Environmental - US
10450 Stancliff Rd Suite 210
Houston, TX 77099
USA
Phone Number:
Cell Number:
Fax Number:
E-mail: luis.aguilar@alsglobal.com

Project Chemist: Hussam Kelany
Originating Lab: HOUSTON
Logged By: JCORONADO2
Date Received: 05/22/24
Internal Due Date: 6/6/2024
QAP: LAB QAP
Qualifier Set: Lab Standard
Formset: Lab Standard
Merged?: Y
Report to MDL?: Y
P.O. Number:
EDD: BASIC_WQC_CASNo

01333632

9 120 mL-Plastic Bottle Natural WM Unpreserved

Location: EHRMS-WIC 5D

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

State Certifications, Accreditations, and Licenses

Agency	Number	Expire Date
Arkansas Department of Environmental Quality	88-00356	3/28/2025
California State Environmental Laboratory Accreditation Program	2919-2024	4/30/2025
Department of Defense	L24-240	4/30/2026
Florida Department of Health	E87611-38	6/30/2024
Hawaii Department of Health	2024	4/30/2025
Illinois Environmental Protection Agency	2000322023-11	6/30/2024
Kansas Department of Health and Environment	E-10352 2023-2024	7/31/2024
Louisiana Department of Environmental Quality	03087-2023	6/30/2024
Louisiana Department of Health and Hospitals	LA028-2024	12/31/2024
Maryland Department of the Environment	343-2023	6/30/2024
Minnesota Department of Health	2645386	12/31/2024
Nevada Division of Environmental Protection	TX026932024-1	7/31/2024
New Hampshire Environmental Laboratory Accreditation Program	209424-A	4/24/2025
New Jersey Department of Environmental Protection	TX008-2024	6/30/2024
Oklahoma Department of Environmental Quality	2023-140	8/31/2024
Oregon Environmental Laboratory Accreditation Program	TX200002-2024	5/15/2025
Pennsylvania Department of Environmental Protection	68-03441-017	6/30/2024
Tennessee Department of Environment and Conservation	04016-2024	4/30/2025
Texas Commision on Environmental Quality	TX-C24-00130	4/30/2025
Utah Department of Health Environmental Laboratory Certification	TX026932023-14	7/31/2024
Washington Department of Ecology	C819-23	11/14/2024

Chain of Custody

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

E2400566 5
ALS Environmental - US
HS24051300

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Houston, TX 77099
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Subcontract Chain of Custody

SAMPLING STATE: **Colorado** **COC ID:** **25767**

SUBCONTRACT TO:

ALS Environmental
10450 Stancliff RoadSuite 210
Houston, TX 77084

Phone: +1 281 530 5656

CUSTOMER INFORMATION:

Company:	ALS Houston
Contact:	Luis.Aguilar
Address:	10450 Stancliff Rd, Ste 210
Phone:	+1 281 530 5656
Email:	luis.aguilar@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:	HS24051300
TSR:	Sonia West

	LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	COLLECT DATE
	ANALYSIS REQUESTED			DUE DATE
1.	**HS24051300-01**	**SOWW16_052024**	**Groundwater**	**20 May 2024 09:50**
	6850 DOD Level II & Level IV PDF, LHAAP EQUIS EDD			06 Jun 2024
2.	**HS24051300-02**	**SOWW18_052024**	**Groundwater**	**20 May 2024 10:40**
	6850 DOD Level II & Level IV PDF, LHAAP EQUIS EDD			06 Jun 2024
3.	**HS24051300-03**	**SOWW22_052024**	**Groundwater**	**20 May 2024 11:30**
	6850 DOD Level II & Level IV PDF, LHAAP EQUIS EDD			06 Jun 2024
4.	**HS24051300-04**	**SOWW15_052024**	**Groundwater**	**20 May 2024 12:15**
	6850 DOD Level II & Level IV PDF, LHAAP EQUIS EDD			06 Jun 2024
5.	**HS24051300-05**	**SOWW14_052124**	**Groundwater**	**21 May 2024 07:15**
	6850 DOD Level II & Level IV PDF, LHAAP EQUIS EDD			06 Jun 2024
6.	**HS24051300-06**	**SOWW13_052124**	**Groundwater**	**21 May 2024 08:00**
	6850 DOD Level II & Level IV PDF, LHAAP EQUIS EDD			06 Jun 2024
7.	**HS24051300-07**	**SOWW11_052124**	**Groundwater**	**21 May 2024 08:50**
	6850 DOD Level II & Level IV PDF, LHAAP EQUIS EDD			06 Jun 2024
8.	**HS24051300-08**	**SOWW05_052124**	**Groundwater**	**21 May 2024 09:35**
	6850 DOD Level II & Level IV PDF, LHAAP EQUIS EDD			06 Jun 2024
9.	**HS24051300-09**	**SOWW29_052124**	**Groundwater**	**21 May 2024 10:25**

Subcontract Chain of Custody

SAMPLING STATE: **Colorado** **COC ID: 25767**

LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	COLLECT DATE
ANALYSIS REQUESTED			DUE DATE
6850 DOD Level II & Level IV PDF, LHAAP EQUIS EDD			06 Jun 2024

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: 5/22/24 1015

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

E2400566
ALS Environmental - US
HS24051300

5

01333640

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

Sample Receipt Checklist

Work Order ID: HS24051300 **Date/Time received:** 22 May 2024 10:15

Client name: Bhate Environmental Associates, Inc. **Received by:** Jacob Coronado

Completed/By: 22 May 2024 16:45 Jacob Coronado **Reviewed/By:**
Date/Time eSignature Date/Time eSignature

Matrices: w **Carrier name:** FedEx

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 ID(s):
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): 3.2uc/3.3c ir31

Cooler Information: 1 Cooler(s), 52140

Date/Time sample(s) sent to storage: 05/22/2024 1645

Water - VOA vials have zero headspace?	☑ Yes	☐ No	☐ No VOA vials submitted
Water - pH acceptable upon receipt?	☐ Yes	☐ No	☑ Not Applicable
pH adjusted?	☐ Yes	☐ No	☑ Not Applicable

pH adjusted by:

Login notes:

Client contacted: **Date contacted:** **Person contacted:**

Contacted by: **Regarding:**

Comments:

Corrective action:

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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

01333643

Prep Run#: 439292 **Prep WorkFlow:** GenExt28Day **Status:** Prepped
Team: Semivoa GCMS/CGUERRA **Prep Method:** Method **Prep Date/Time:** 5/30/24 13:14

#	Lab Code	Client ID	B#	Method /Test	pH	Cl	Matrix	Amt. Ext.	Sample Description
1	E2400556-001	2405091420Y 700-H-535	.01	6850/ClO4 DOD			Water	10mL	
2	E2400556-002	2405101000Y 700-H-350	.01	6850/ClO4 DOD			Water	10mL	
3	E2400556-003	2405131447B BLM-32-543	.01	6850/ClO4 DOD			Water	10mL	
4	E2400557-001	2405141431B WW-4-419	.01	6850/ClO4 DOD			Water	10mL	
5	E2400557-002	2405141447B WW-4-589	.01	6850/ClO4 DOD			Water	10mL	
6	E2400563-001	2405151418B WW-4-848	.01	6850/ClO4 DOD			Water	10mL	
7	E2400563-002	2405151435B WW-4-948	.01	6850/ClO4 DOD			Water	10mL	
8	E2400563-003	2405151506Y PL-7-560	.01	6850/ClO4 DOD			Water	10mL	
9	E2400566-001	50WW16_052024	.01	6850/ClO4 DOD			Water	10mL	
10	E2400566-002	50WW18_052024	.01	6850/ClO4 DOD			Water	10mL	
11	E2400566-003	50WW22_052024	.01	6850/ClO4 DOD			Water	10mL	
12	E2400566-004	50WW15_052024	.01	6850/ClO4 DOD			Water	10mL	
13	E2400566-005	50WW14_052124	.01	6850/ClO4 DOD			Water	10mL	
14	E2400566-006	50WW13_052124	.01	6850/ClO4 DOD			Water	10mL	
15	E2400566-007	50WW11_052124	.01	6850/ClO4 DOD			Water	10mL	
16	E2400566-008	50WW05_052124	.01	6850/ClO4 DOD			Water	10mL	
17	E2400566-009	50WW29_052124	.01	6850/ClO4 DOD			Water	10mL	
18	E2400568-001	LH18/24-SP140_052124	.01	6850/ClO4 DOD			Water	10mL	
19	E2400569-001	LH18/24-SP650_052124_AIX	.01	6850/ClO4 DOD			Water	10mL	
20	EQ2400268-01	MB		6850/ClO4 DOD			Liquid	10mL	
21	EQ2400268-02	LCS		6850/ClO4 DOD			Liquid	10mL	
22	EQ2400268-03	DLCS		6850/ClO4 DOD			Liquid	10mL	
23	EQ2400268-04	ICS		6850/ClO4 DOD			Liquid	10mL	

Spiking Solutions

Name: Perchlorate Anion Spiking Soln. 25,000 ppm Inventory ID 233595 Logbook Ref: Expires On: 08/04/2024

EQ2400268-04 20.00µL

Name: Perchlorate Intermediate Stock 3 Inventory ID 234838 Logbook Ref: Perchlorate Inter. Stock 3 NMV Expires On: 10/25/2024

EQ2400268-02 100.00µL EQ2400268-03 100.00µL EQ2400268-04 100.00µL

Name: Perchlorate Internal Standard 1ug/mL Inventory ID 235428 Logbook Ref: Perchlorate IS cg5/24/24 Expires On: 11/24/2024

E2400556-001 100.00µL E2400556-002 100.00µL E2400556-003 100.00µL E2400557-001 100.00µL E2400557-002 100.00µL E2400563-001 100.00µL

Preparation Information Benchsheet

01333644

Prep Run#: 439292 **Prep WorkFlow:** GenExt28Day **Status:** Prepped

Team: Semivoa GCMS/CGUERRA **Prep Method:** Method **Prep Date/Time:** 5/30/24 13:14

E2400563-002	100.00µL	E2400563-003	100.00µL	E2400566-001	100.00µL	E2400566-002	100.00µL	E2400566-003	100.00µL	E2400566-004	100.00µL
E2400566-005	100.00µL	E2400566-006	100.00µL	E2400566-007	100.00µL	E2400566-008	100.00µL	E2400566-009	100.00µL	E2400568-001	100.00µL
E2400569-001	100.00µL	EQ2400268-01	100.00µL	EQ2400268-02	100.00µL	EQ2400268-03	100.00µL	EQ2400268-04	100.00µL		

Preparation Materials

Water HPLC Grade	HPLC WATER 04/15/24 (233144)	6850 0.45um syringe filters	6850 0.45 SYRING FILTER (229979)	6850 Luer-Lok Syringes	Luer Lok Syringes (235267)

Preparation Steps

Step: Preparation
Started: 5/30/24 13:14
Finished: 5/30/24 15:00
By: CGUERRA
Comments

Comments: _____

Reviewed By: _____ Date: _____

Chain of Custody

Relinquished By: _____ Date: _____

Received By: _____ Date: _____

Extracts Examined
Yes No

Analytical Results

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

Client:	ALS Environmental - US	**Service Request:**	E2400566
Project:	HS24051300	**Date Collected:**	5/20/24 0950
Sample Matrix:	Water	**Date Received:**	5/22/24
Sample Name:	50WW16_052024	**Units:**	µg/L
Lab Code:	E2400566-001	**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	**0.120**		0.100	0.0500	0.0250	1	5/30/24	5/30/24 21:03	439292	842622	

Client:	ALS Environmental - US	**Service Request:**	E2400566
Project:	HS24051300	**Date Collected:**	5/20/24 1040
Sample Matrix:	Water	**Date Received:**	5/22/24
Sample Name:	50WW18_052024	**Units:**	µg/L
Lab Code:	E2400566-002	**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	0.200	0.100	0.0500	2	5/30/24	5/31/24 17:44	439292	842781	

Client:	ALS Environmental - US	**Service Request:**	E2400566
Project:	HS24051300	**Date Collected:**	5/20/24 1130
Sample Matrix:	Water	**Date Received:**	5/22/24
Sample Name:	50WW22_052024	**Units:**	µg/L
Lab Code:	E2400566-003	**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	**0.694**	J	1.00	0.500	0.250	10	5/30/24	6/3/24 14:40	439292	842873	

Client:	ALS Environmental - US	**Service Request:**	E2400566
Project:	HS24051300	**Date Collected:**	5/20/24 1215
Sample Matrix:	Water	**Date Received:**	5/22/24
Sample Name:	50WW15_052024	**Units:**	µg/L
Lab Code:	E2400566-004	**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	**0.220**		0.100	0.0500	0.0250	1	5/30/24	5/30/24 21:19	439292	842622	

Client:	ALS Environmental - US	**Service Request:**	E2400566
Project:	HS24051300	**Date Collected:**	5/21/24 0715
Sample Matrix:	Water	**Date Received:**	5/22/24
Sample Name:	50WW14_052124	**Units:**	µg/L
Lab Code:	E2400566-005	**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	1.00	0.500	0.250	10	5/30/24	6/3/24 14:45	439292	842873	

Client:	ALS Environmental - US	**Service Request:**	E2400566
Project:	HS24051300	**Date Collected:**	5/21/24 0800
Sample Matrix:	Water	**Date Received:**	5/22/24
Sample Name:	50WW13_052124	**Units:**	µg/L
Lab Code:	E2400566-006	**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	**121**		1.00	0.500	0.250	10	5/30/24	5/31/24 16:59	439292	842781	

Client:	ALS Environmental - US	**Service Request:**	E2400566
Project:	HS24051300	**Date Collected:**	5/21/24 0850
Sample Matrix:	Water	**Date Received:**	5/22/24
Sample Name:	50WW11_052124	**Units:**	µg/L
Lab Code:	E2400566-007	**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	**268**		1.00	0.500	0.250	10	5/30/24	5/31/24 17:05	439292	842781	

Client:	ALS Environmental - US	**Service Request:**	E2400566
Project:	HS24051300	**Date Collected:**	5/21/24 0935
Sample Matrix:	Water	**Date Received:**	5/22/24
Sample Name:	50WW05_052124	**Units:**	µg/L
Lab Code:	E2400566-008	**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	5/30/24	5/31/24 16:43	439292	842781	

Client:	ALS Environmental - US	**Service Request:**	E2400566
Project:	HS24051300	**Date Collected:**	5/21/24 1025
Sample Matrix:	Water	**Date Received:**	5/22/24
Sample Name:	50WW29_052124	**Units:**	µg/L
Lab Code:	E2400566-009	**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	**0.606**	J	1.00	0.500	0.250	10	5/30/24	6/3/24 14:51	439292	842873	

Client:	ALS Environmental - US	**Service Request:**	E2400566
Project:	HS24051300	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	µg/L
Lab Code:	EQ2400268-01	**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	5/30/24	5/31/24 14:35	439292	842781	

Accuracy & Precision

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 Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS24051300
Sample Matrix: Water

Service Request: E2400566
Date Analyzed: 5/31/24

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: 439292

	Lab Control Sample EQ2400268-02			Duplicate Lab Control Sample EQ2400268-03					
Analyte Name	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Perchlorate	0.106	0.100	106	0.105	0.100	105	84 - 119	1	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.

Client:	ALS Environmental - US	**Service Request:**	E2400566
Project:	HS24051300	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Lab Control Sample	**Units:**	µg/L
Lab Code:	EQ2400268-02	**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	**0.106**		0.100	0.0500	0.0250	1	5/30/24	5/31/24 14:41	439292	842781	

Client:	ALS Environmental - US	**Service Request:**	E2400566
Project:	HS24051300	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Duplicate Lab Control Sample	**Units:**	µg/L
Lab Code:	EQ2400268-03	**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	**0.105**		0.100	0.0500	0.0250	1	5/30/24	5/31/24 14:46	439292	842781	

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

841830

Injection Log

LCMS01 -Shimadzu 8050

1st Review: CG
2nd Review:

ICAL Date: 5/23/2024
Cal. Std. xp: 8/13/2024
ICAL ID: EC2400006

Mobile Phases : A:20mM ammonium acetate in water **3211810-9 B:**Acetonitrile 3211810-8
LODV: 233573 **CCV:233565**

	File Name	Sample Name	Acquisition Method	Dilution	Comments	Date/Time
1	20240523-001	IB	Perchlorate6850c.lcm	1x		5/23/2024 14:17
2	20240523-002	Perchlorate ICAL 1	Perchlorate6850c.lcm	1x		5/23/2024 14:23
3	20240523-003	Perchlorate ICAL 2	Perchlorate6850c.lcm	1x		5/23/2024 14:28
4	20240523-004	Perchlorate ICAL 3	Perchlorate6850c.lcm	1x		5/23/2024 14:34
5	20240523-005	Perchlorate ICAL 4	Perchlorate6850c.lcm	1x		5/23/2024 14:39
6	20240523-006	Perchlorate ICAL 5	Perchlorate6850c.lcm	1x		5/23/2024 14:45
7	20240523-007	Perchlorate ICAL 6	Perchlorate6850c.lcm	1x		5/23/2024 14:50
8	20240523-008	Perchlorate ICAL 7	Perchlorate6850c.lcm	1x		5/23/2024 14:56
9	20240523-009	Perchlorate ICAL 8	Perchlorate6850c.lcm	1x		5/23/2024 15:01
10	20240523-010	Perchlorate ICAL 9	Perchlorate6850c.lcm	1x		5/23/2024 15:07
11	20240523-011	Perchlorate ICAL 10	Perchlorate6850c.lcm	1x		5/23/2024 15:12
12	20240523-012	PerchlorateICV	Perchlorate6850c.lcm	1x		5/23/2024 15:18
13	20240523-013	IB	Perchlorate6850c.lcm	1x		5/23/2024 15:23
14	20240523-014	LODV	Perchlorate6850c.lcm	1x		5/23/2024 15:29
15	20240523-015	ICS	Perchlorate6850c.lcm	1x		5/23/2024 15:35
16	20240523-016	CCV	Perchlorate6850c.lcm	1x		5/23/2024 15:40
17	20240523-017	IB	Perchlorate6850c.lcm	1x		5/23/2024 15:46
18	20240523-018	EQ2400248-01 MB	Perchlorate6850c.lcm	1x		5/23/2024 15:51
19	20240523-019	EQ2400248-02 LCS	Perchlorate6850c.lcm	1x		5/23/2024 15:57
20	20240523-020	EQ2400248-03 DLCS	Perchlorate6850c.lcm	1x		5/23/2024 16:02
21	20240523-021	EQ2400248-04 ICS	Perchlorate6850c.lcm	1x		5/23/2024 16:08
22	20240523-022	E2400538-01	Perchlorate6850c.lcm	1x	Iss failure DL needed	5/23/2024 16:13
23	20240523-023	E2400498-01	Perchlorate6850c.lcm	1x	Iss failure DL needed	5/23/2024 16:19
24	20240523-024	E2400498-02	Perchlorate6850c.lcm	1x	Iss failure DL needed	5/23/2024 16:25
25	20240523-025	E2400483-01	Perchlorate6850c.lcm	1x	Iss : low IS	5/23/2024 16:30
26	20240523-026	E2400538-01	Perchlorate6850c.lcm	1x	RI low IS confirm	5/23/2024 16:36
27	20240523-027	E2400483-02	Perchlorate6850c.lcm	1x	Iss : low IS	5/23/2024 16:41
28	20240523-028	CCV	Perchlorate6850c.lcm	1x		5/23/2024 16:47
29	20240523-029	IB	Perchlorate6850c.lcm	1x		5/23/2024 16:52
30	20240523-030	E2400492-01	Perchlorate6850c.lcm	1x	RI low IS confirm	5/23/2024 16:58
31	20240523-031	E2400538-01 10x	Perchlorate6850c.lcm	1x	10x DL wrong	5/23/2024 17:03
32	20240523-032	E2400492-02	Perchlorate6850c.lcm	1x	RI low IS confirm	5/23/2024 17:09
33	20240523-033	E2400492-03	Perchlorate6850c.lcm	1x	RI low IS confirm	5/23/2024 17:15
34	20240523-034	E2400492-04	Perchlorate6850c.lcm	1x		5/23/2024 17:20
35	20240523-035	E2400493-01	Perchlorate6850c.lcm	1x	RI low IS confirm	5/23/2024 17:26
36	20240523-036	CCV	Perchlorate6850c.lcm	1x		5/23/2024 17:31
37	20240523-037	IB	Perchlorate6850c.lcm	1x		5/23/2024 17:37

841830

Injection Log

LCMS01 -Shimadzu 8050

1st Review: CG
2nd Review:

ICAL Date: 5/23/2024
Cal. Std. xp: 8/13/2024
ICAL ID: EC2400006

Mobile Phases : A:20mM ammonium acetate in water **3211810-9 B:**Acetonitrile 3211810-8
LODV: 233573 **CCV:233565**

	File Name	Sample Name	Acquisition Method	Dilution	Comments	Date/Time

Initial Calibration - Detailed Report

Calibration ID: EC2400008 **Instrument ID:** E-LCMS-01
Column Name: 1

#	Lab Code	Sample Name	File Location	Aquisition Date
01	EC2400008-01	Perchlorate ICAL 1	20240523-002	05/23/2024 14:23
02	EC2400008-02	Perchlorate ICAL 2	20240523-003	05/23/2024 14:28
03	EC2400008-03	Perchlorate ICAL 3	20240523-004	05/23/2024 14:34
04	EC2400008-04	Perchlorate ICAL 4	20240523-005	05/23/2024 14:39
05	EC2400008-05	Perchlorate ICAL 5	20240523-006	05/23/2024 14:45
06	EC2400008-06	Perchlorate ICAL 6	20240523-007	05/23/2024 14:50
07	EC2400008-07	Perchlorate ICAL 7	20240523-008	05/23/2024 14:56
08	EC2400008-08	Perchlorate ICAL 8	20240523-009	05/23/2024 15:01
09	EC2400008-09	Perchlorate ICAL 9	20240523-010	05/23/2024 15:07
10	EC2400008-10	Perchlorate ICAL 10	20240523-011	05/23/2024 15:12

Analyte **Curve Fit** **Weighting**

Perchlorate **Average RF** **RSD = 6.262** **Average RF = 0.1325**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.1000	0.1273	02	0.5000	0.1171	03	0.7000	0.1228	04	1.0000	0.1277
05	2.0000	0.1345	06	5.0000	0.1354	07	10.0000	0.1401	08	20.0000	0.1398
09	30.0000	0.1399	10	50.0000	0.1401						

Analyte

Perchlorate RSE = 6.26

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.1000	0.0961	-3.9	02	0.5000	0.442	-11.6	03	0.7000	0.649	-7.3
04	1.0000	0.964	-3.6	05	2.0000	2.03	1.5	06	5.0000	5.11	2.2
07	10.0000	10.6	5.7	08	20.0000	21.1	5.5	09	30.0000	31.7	5.6
10	50.0000	52.9	5.8								

Initial Calibration Verification Summary Report

Calibration ID:	EC2400008	**Instrument ID:**	E-LCMS-01
Datafile ID:	20240523-012	**Column Name:**	1

Analyte	Lab Code	Type	Curve Fit	True Value	Calc Conc	Units	Result	Criteria
Perchlorate	EC2400008-11	T	Average RF	10	10.506	ng/mL	5.1	<= 15

Insight Report

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Project File: I:\LCMS01\DATA\20240523ICAL\20240523.damIp

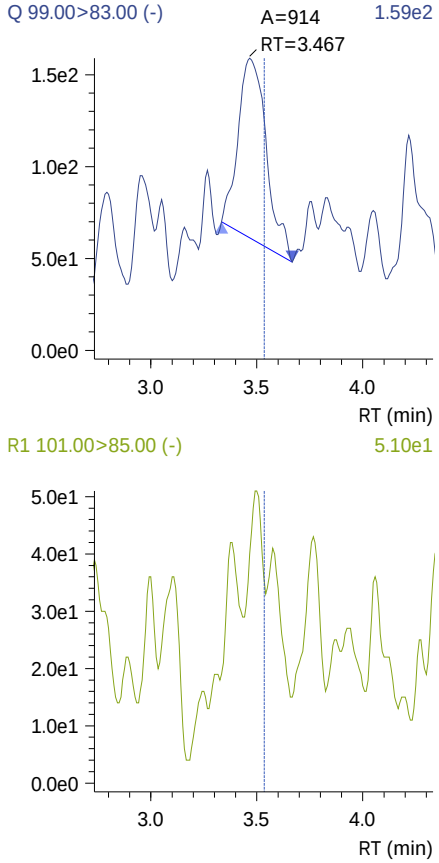
IB

Sample ID: IB
Date Acquired: 5/23/2024 2:17:35 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240523ICAL\20240523-001.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	NI	----	----	424709	----	ng/mL	101.00 >85.00	0.00	24.14 -44.84
Sodium Perchlorate -18O4_IS	Auto	3.478	424709	424709	1.0000	ng/mL	----	----	

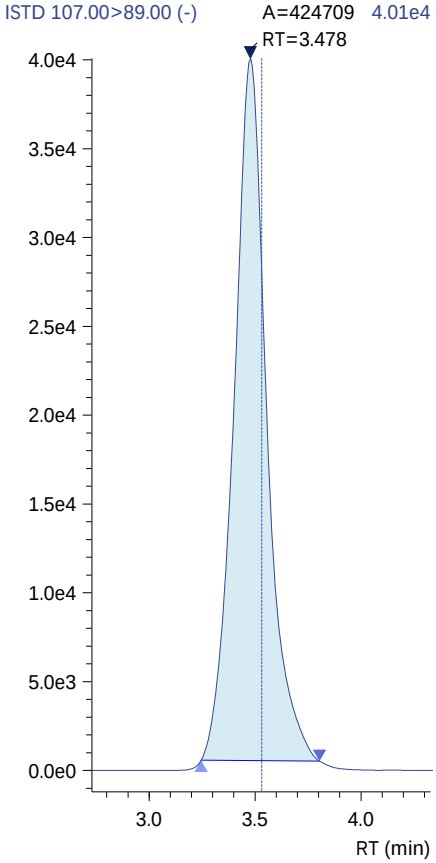
Perchlorate

Conc ----
R#1 0.00 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

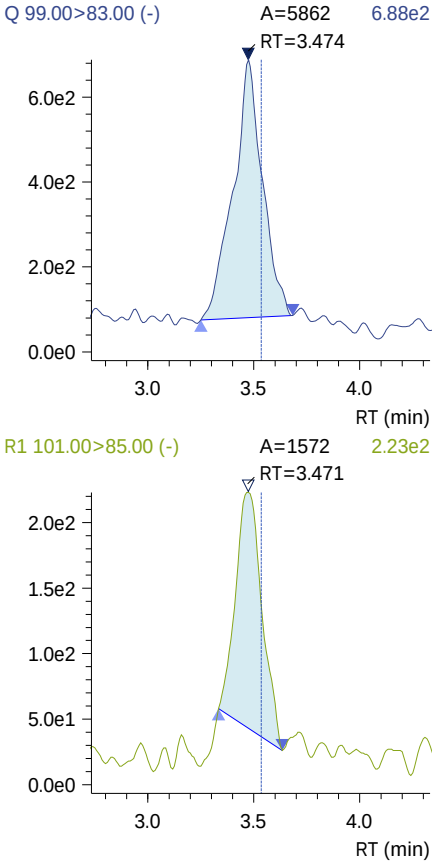
Perchlorate ICAL 1

Sample ID: Perchlorate ICAL 1
Date Acquired: 5/23/2024 2:23:05 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240523ICAL\20240523-002.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.474	5862	460498	0.0961	ng/mL	101.00 >85.00	26.81	24.14 -44.84
Sodium Perchlorate -18O4_IS	Auto	3.476	460498	460498	1.0000	ng/mL	----	----	

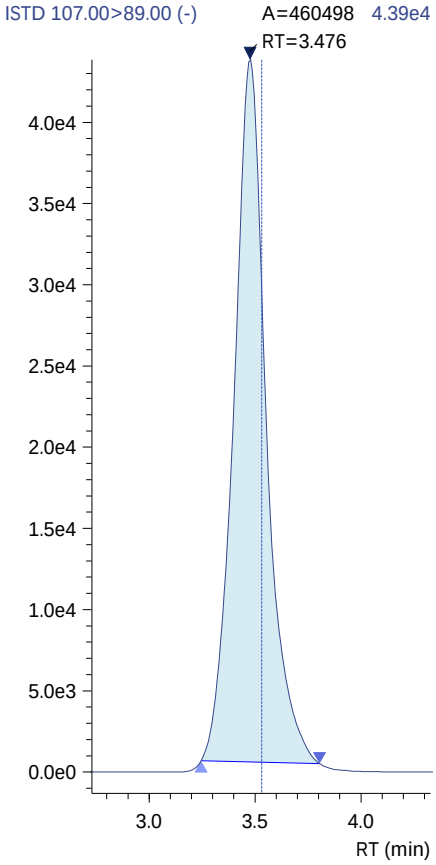
Perchlorate

Conc 0.0961
R#1 26.81 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

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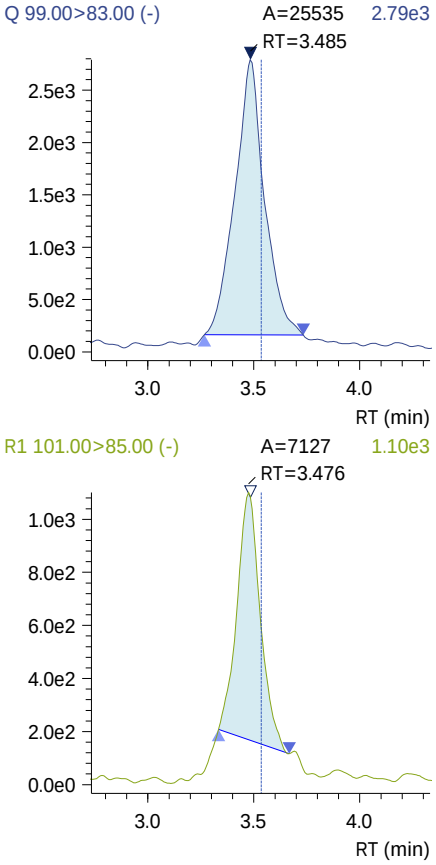
Perchlorate ICAL 2

Sample ID: Perchlorate ICAL 2
Date Acquired: 5/23/2024 2:28:37 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240523ICAL\20240523-003.lcd
Vial: 2 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.485	25535	436264	0.4419	ng/mL	101.00 >85.00	27.91	24.14 -44.84
Sodium Perchlorate -18O4_IS	Auto	3.477	436264	436264	1.0000	ng/mL	----	----	

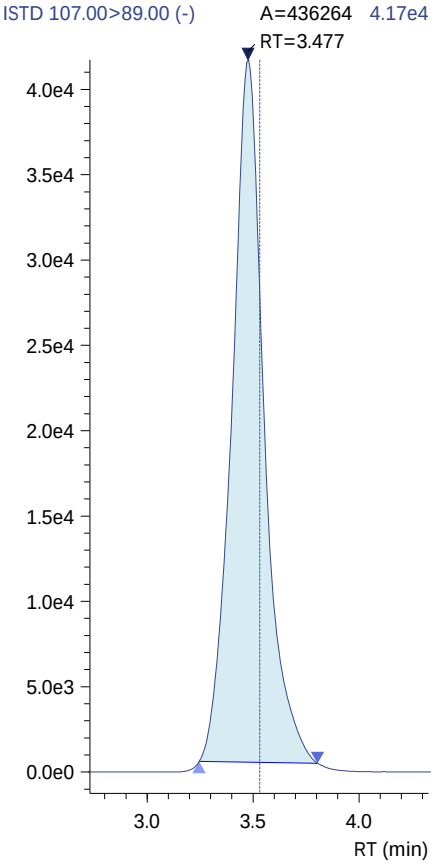
Perchlorate

Conc 0.4419
R#1 27.91 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

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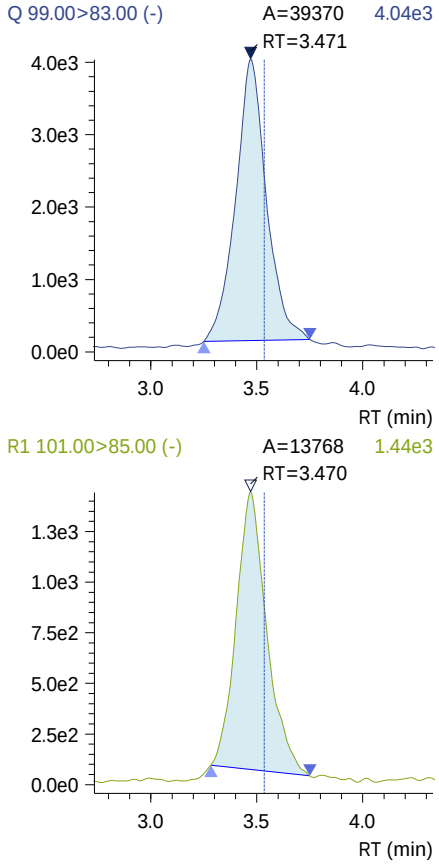
Perchlorate ICAL 3

Sample ID: Perchlorate ICAL 3
Date Acquired: 5/23/2024 2:34:11 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240523ICAL\20240523-004.lcd
Vial: 3 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.471	39370	458077	0.6488	ng/mL	101.00 >85.00	34.97	24.14 -44.84
Sodium Perchlorate -18O4_IS	Auto	3.473	458077	458077	1.0000	ng/mL	----	----	

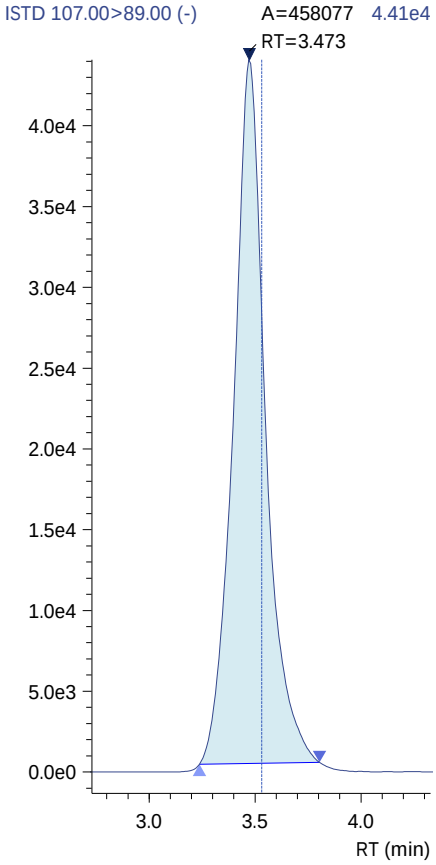
Perchlorate

Conc 0.6488
R#1 34.97 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

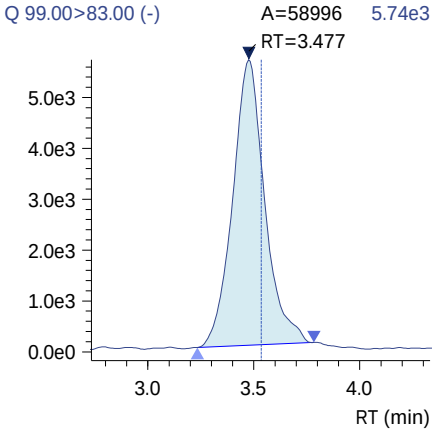
Perchlorate ICAL 4

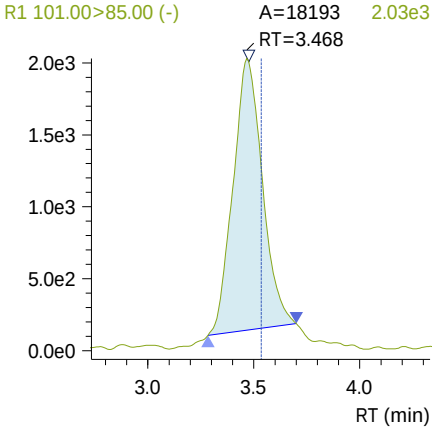
Sample ID: Perchlorate ICAL 4
Date Acquired: 5/23/2024 2:39:45 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240523ICAL\20240523-005.lcd
Vial: 4 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.477	58996	462144	0.9637	ng/mL	101.00 >85.00	30.84	24.14 -44.84
Sodium Perchlorate -18O4_IS	Auto	3.474	462144	462144	1.0000	ng/mL	----	----	

Perchlorate

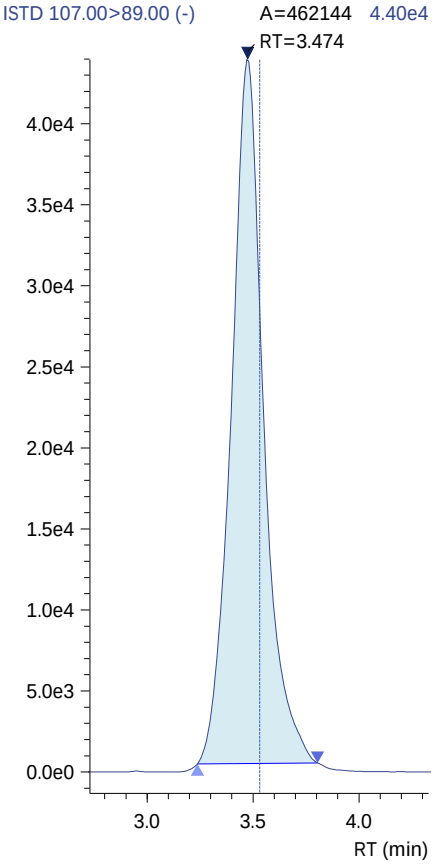
Conc 0.9637
R#1 30.84 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

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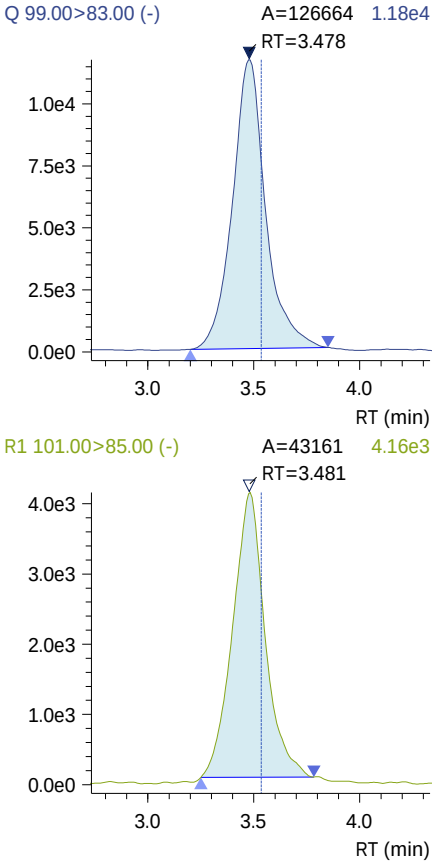
Perchlorate ICAL 5

Sample ID: Perchlorate ICAL 5
Date Acquired: 5/23/2024 2:45:16 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240523ICAL\20240523-006.lcd
Vial: 5 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.478	126664	470896	2.0307	ng/mL	101.00 >85.00	34.08	24.14 -44.84
Sodium Perchlorate -18O4_IS	Auto	3.475	470896	470896	1.0000	ng/mL	----	----	

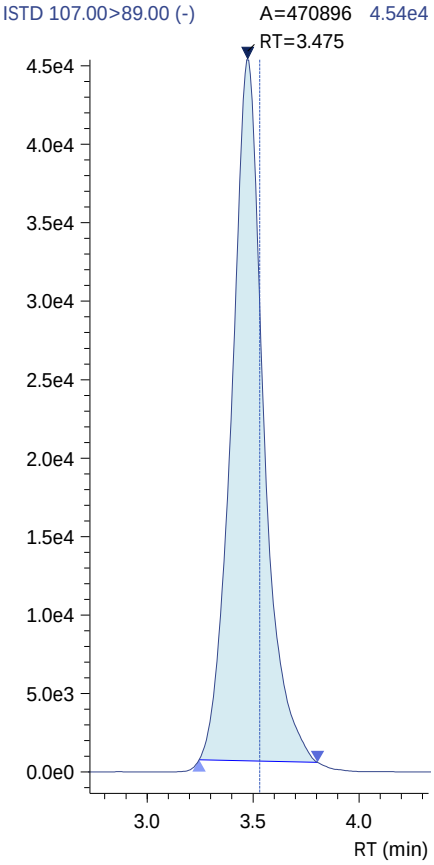
Perchlorate

Conc 2.0307
R#1 34.08 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

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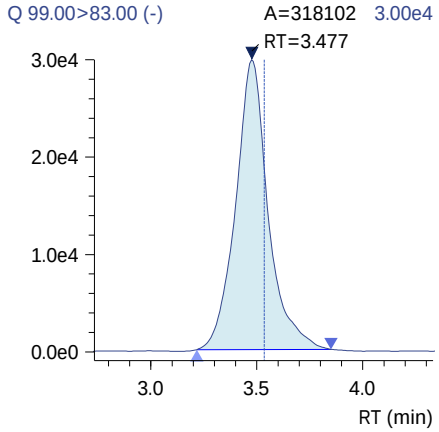
Perchlorate ICAL 6

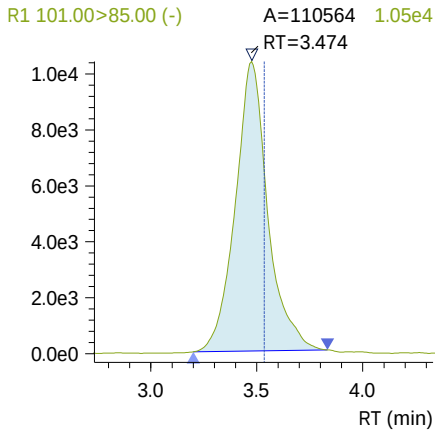
Sample ID: Perchlorate ICAL 6
Date Acquired: 5/23/2024 2:50:50 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240523ICAL\20240523-007.lcd
Vial: 6 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.477	318102	469845	5.1113	ng/mL	101.00 >85.00	34.76	24.14 -44.84
Sodium Perchlorate -18O4_IS	Auto	3.473	469845	469845	1.0000	ng/mL	----	----	

Perchlorate

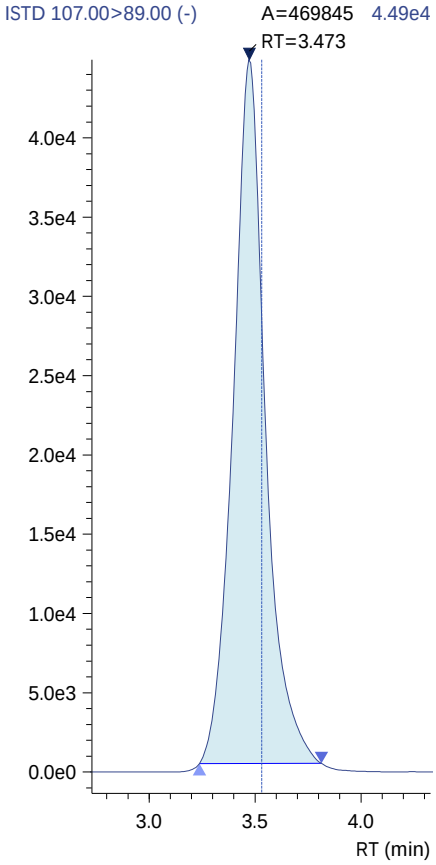
Conc 5.1113
R#1 34.76 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/4/2024 12:58:42 PM

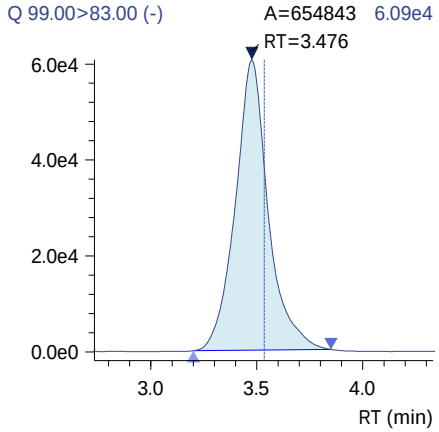
Perchlorate ICAL 7

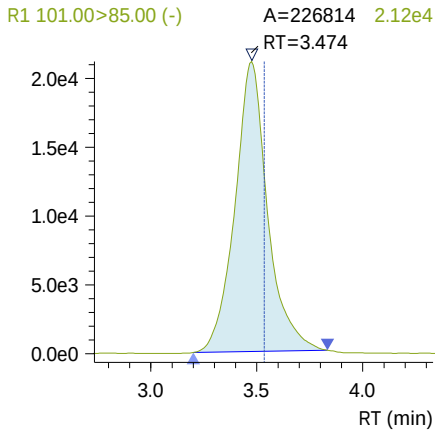
Sample ID: Perchlorate ICAL 7
Date Acquired: 5/23/2024 2:56:21 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240523ICAL\20240523-008.lcd
Vial: 7 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.476	654843	467526	10.5 742	ng/mL	101.00 >85.00	34.64	24.14 -44.84
Sodium Perchlorate -18O4_IS	Auto	3.474	467526	467526	1.0000	ng/mL	----	----	

Perchlorate

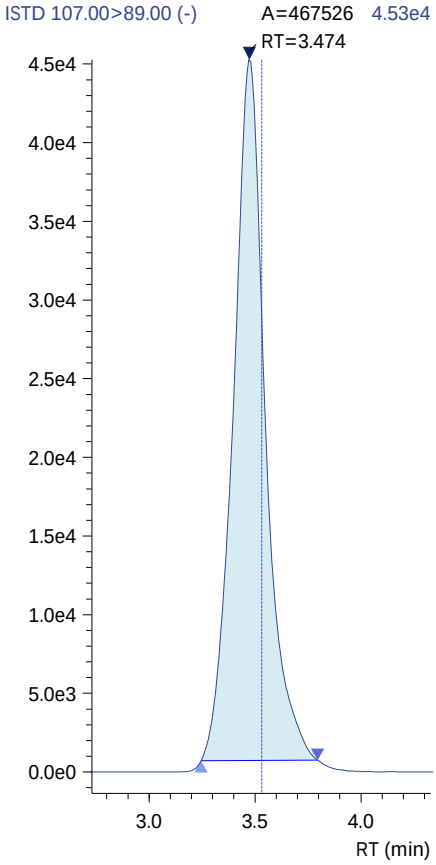
Conc 10.5742
R#1 34.64 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/4/2024 12:58:42 PM

Perchlorate ICAL 8

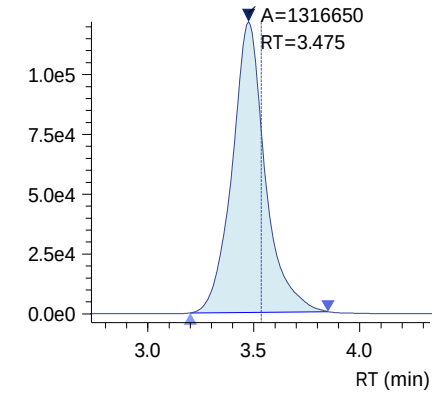
Sample ID: Perchlorate ICAL 8
Date Acquired: 5/23/2024 3:01:52 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240523ICAL\20240523-009.lcd
Vial: 8 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.475	13166 50	470903	21.1 084	ng/mL	101.00 >85.00	34.99	24.14 -44.84
Sodium Perchlorate -18O4_IS	Auto	3.472	470903	470903	1.0000	ng/mL	----	----	

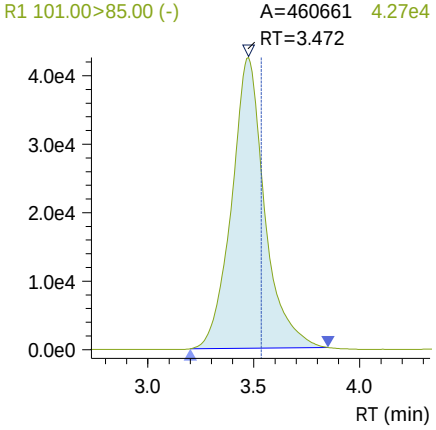
Perchlorate

Conc 21.1084
R#1 34.99 (34.10)

Q 99.00>83.00 (-) 1.22e5



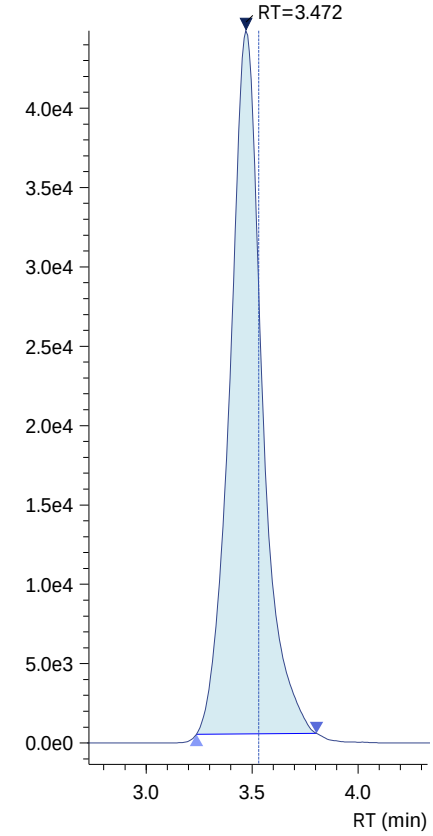
R1 101.00>85.00 (-) A=460661 4.27e4



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=470903 4.49e4



Insight Report

Perchlorate ICAL 9

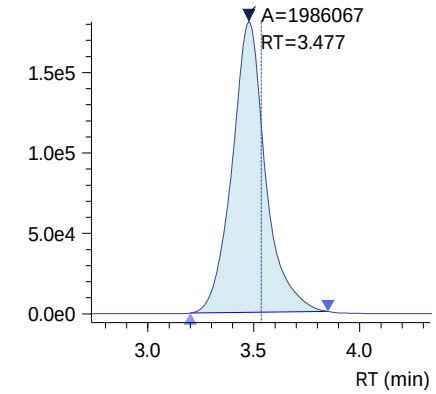
Sample ID: Perchlorate ICAL 9
Date Acquired: 5/23/2024 3:07:25 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240523ICAL\20240523-010.lcd
Vial: 9 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.477	19860 67	473268	31.6 813	ng/mL	101.00 >85.00	34.46	24.14 -44.84
Sodium Perchlorate -18O4_IS	Auto	3.472	473268	473268	1.0000	ng/mL	----	----	

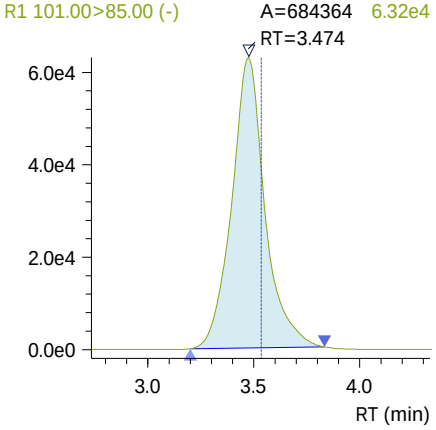
Perchlorate

Conc 31.6813
R#1 34.46 (34.10)

Q 99.00>83.00 (-) 1.82e5



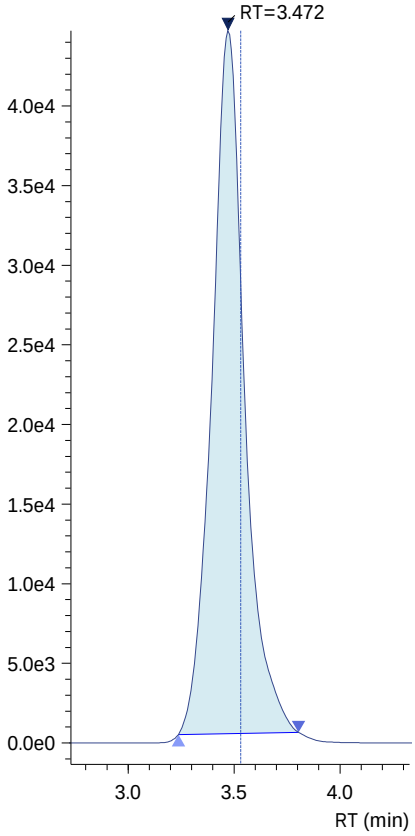
R1 101.00>85.00 (-) A=684364 6.32e4



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=473268 4.47e4



Insight Report

Printed at 6/4/2024 12:58:42 PM

Perchlorate ICAL 10

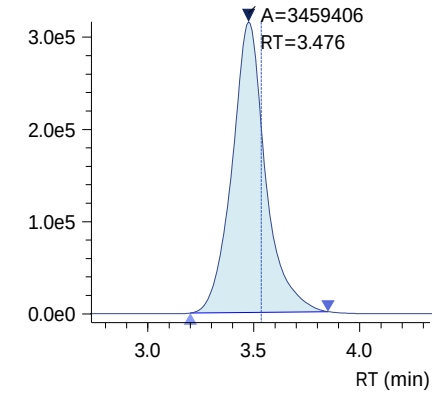
Sample ID: Perchlorate ICAL 10
Date Acquired: 5/23/2024 3:12:56 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240523ICAL\20240523-011.lcd
Vial: 10 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.476	3459406	493682	52.9018	ng/mL	101.00 >85.00	34.61	24.14 -44.84
Sodium Perchlorate-18O4_IS	Auto	3.472	493682	493682	1.0000	ng/mL	----	----	

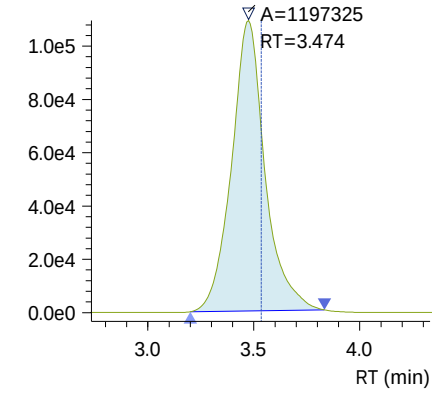
Perchlorate

Conc 52.9018
R#1 34.61 (34.10)

Q 99.00>83.00 (-) 3.17e5



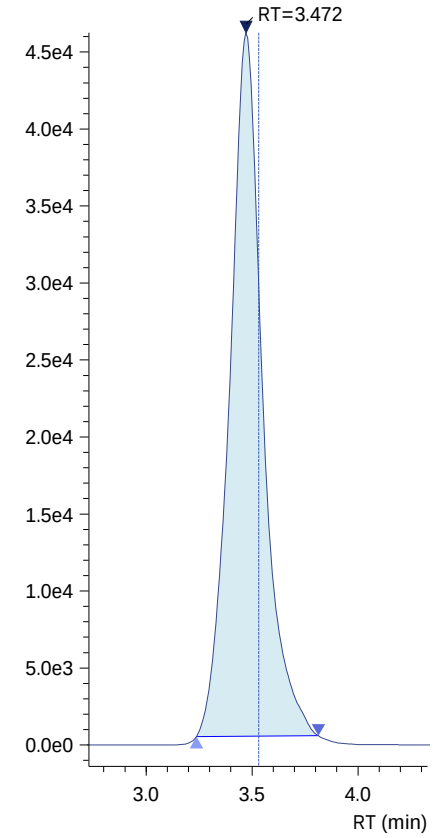
R1 101.00>85.00 (-) 1.10e5



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=493682 4.63e4



Insight Report

Printed at 6/4/2024 12:58:42 PM

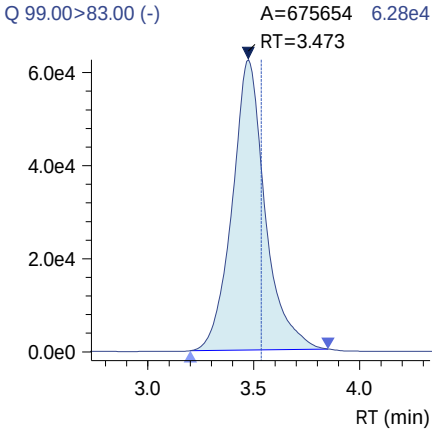
PerchlorateICV

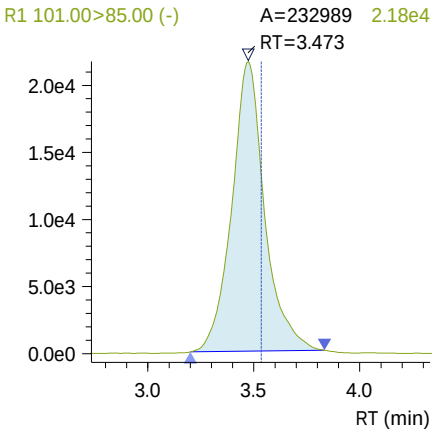
Sample ID: PerchlorateICV
Date Acquired: 5/23/2024 3:18:29 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240523ICAL\20240523-012.lcd
Vial: 11 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.473	675654	485527	10.5058	ng/mL	101.00 >85.00	34.48	24.14 -44.84
Sodium Perchlorate-18O4_IS	Auto	3.473	485527	485527	1.0000	ng/mL	----	----	

Perchlorate

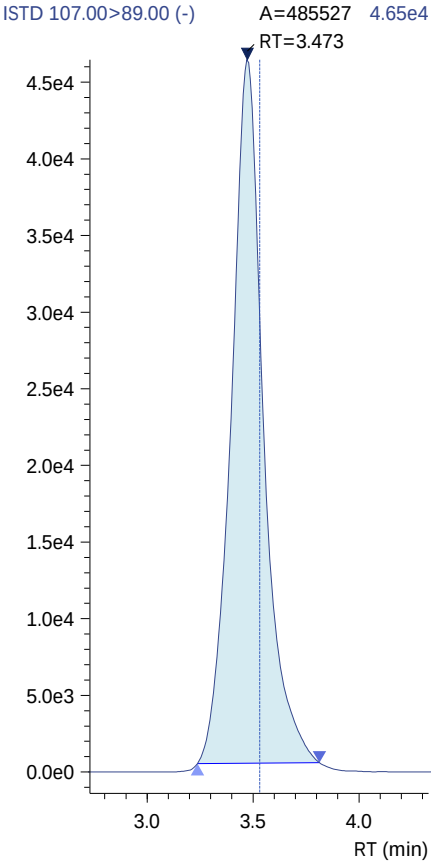
Conc 10.5058
R#1 34.48 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/4/2024 12:58:42 PM

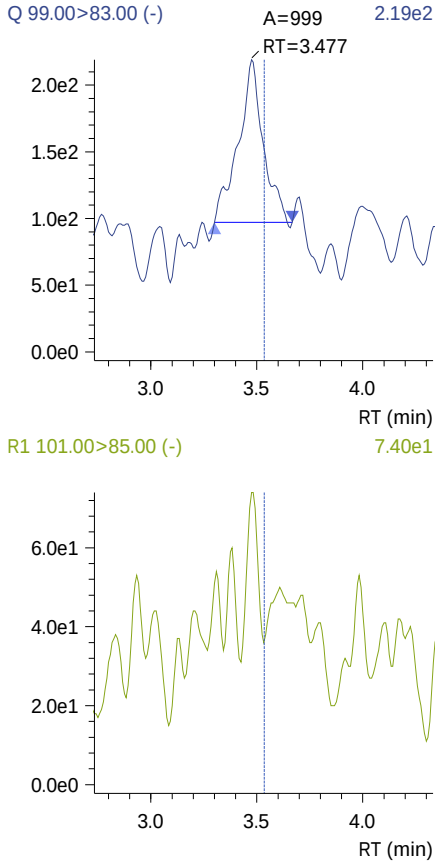
IB

Sample ID: IB
Date Acquired: 5/23/2024 3:23:59 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240523ICAL\20240523-013.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	NI	----	----	485949	----	ng/mL	101.00 >85.00	0.00	24.14 -44.84
Sodium Perchlorate -18O4_IS	Auto	3.473	485949	485949	1.0000	ng/mL	----	----	

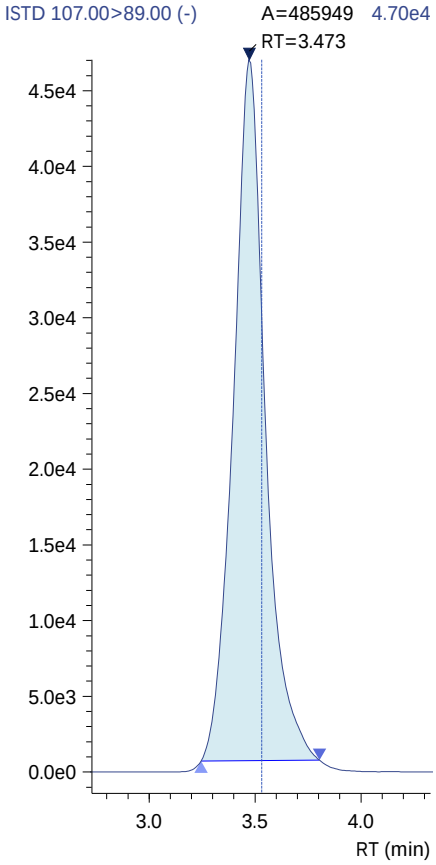
Perchlorate

Conc ----
R#1 0.00 (34.10)



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

842465/842622

Injection Log

LCMS01 -Shimadzu 8050

1st Review: CG
2nd Review:

ICAL Date: 5/23/2024
Cal. Std. xp: 8/13/2024
ICAL ID: EC2400008

Mobile Phases : A:20mM ammonium acetate in water **3211810-9 B:**Acetonitrile 3211810-8
LODV: 233573 **CCV:233565**

	File Name	Sample Name	Acquisition Method	Dilution	Comments	Date/Time
1	20240530-001	IB	Perchlorate6850c.lcm	1X		5/30/2024 11:43
2	20240530-002	LODV	Perchlorate6850c.lcm	1X		5/30/2024 11:49
3	20240530-003	ICS	Perchlorate6850c.lcm	1X		5/30/2024 11:55
4	20240530-004	CCV	Perchlorate6850c.lcm	1X		5/30/2024 12:00
5	20240530-005	IB	Perchlorate6850c.lcm	1X		5/30/2024 12:06
6	20240530-006	E2400501-02	Perchlorate6850c.lcm	1X		5/30/2024 12:11
7	20240530-007	E2400504-003	Perchlorate6850c.lcm	1X		5/30/2024 12:17
8	20240530-008	E2400524-01	Perchlorate6850c.lcm	1X		5/30/2024 12:22
9	20240530-009	E2400525-01	Perchlorate6850c.lcm	1X		5/30/2024 12:28
10	20240530-010	E2400526-01	Perchlorate6850c.lcm	1X		5/30/2024 12:33
11	20240530-011	E2400505-01	Perchlorate6850c.lcm	1X		5/30/2024 12:39
12	20240530-012	E2400501-01 500x	Perchlorate6850c.lcm	500x		5/30/2024 12:44
13	20240530-013	CCV	Perchlorate6850c.lcm	1X		5/30/2024 12:50
14	20240530-014	IB	Perchlorate6850c.lcm	1X		5/30/2024 12:55
15	20240530-015	E2400507-01	Perchlorate6850c.lcm	1X		5/30/2024 13:01
16	20240530-016	E2400507-08	Perchlorate6850c.lcm	1X		5/30/2024 13:06
17	20240530-017	E2400528-01	Perchlorate6850c.lcm	1X	DNU ISs	5/30/2024 13:12
18	20240530-018	E2400528-02	Perchlorate6850c.lcm	1X	DNU ISs	5/30/2024 13:18
19	20240530-019	E2400529-01	Perchlorate6850c.lcm	1X		5/30/2024 13:23
20	20240530-020	E2400529-02	Perchlorate6850c.lcm	1X		5/30/2024 13:29
21	20240530-021	E2400507-09	Perchlorate6850c.lcm	1X		5/30/2024 13:34
22	20240530-022	CCV	Perchlorate6850c.lcm	1X		5/30/2024 13:40
23	20240530-023	IB	Perchlorate6850c.lcm	1X		5/30/2024 13:45
24	20240530-024	E2400528-01 10x	Perchlorate6850c.lcm	10x		5/30/2024 14:28
25	20240530-025	E2400528-02 10x	Perchlorate6850c.lcm	10x		5/30/2024 14:33
26	20240530-026	CCV	Perchlorate6850c.lcm	1X		5/30/2024 14:39
27	20240530-027	IB	Perchlorate6850c.lcm	1X		5/30/2024 14:44
28	20240530-028	CCV	Perchlorate6850c.lcm	1X		5/30/2024 17:08
29	20240530-029	IB	Perchlorate6850c.lcm	1X		5/30/2024 17:14
30	20240530-030	EQ2400267-01	Perchlorate6850c.lcm	1X	DNU incorrect tray	5/30/2024 17:19
31	20240530-031	EQ2400267-02	Perchlorate6850c.lcm	1X	DNU incorrect tray	5/30/2024 17:25
32	20240530-032	EQ2400267-03	Perchlorate6850c.lcm	1X	DNU incorrect tray	5/30/2024 17:30
33	20240530-033	EQ2400267-04	Perchlorate6850c.lcm	1X	DNU incorrect tray	5/30/2024 17:36
34	20240530-034	EQ2400267-05	Perchlorate6850c.lcm	1X	DNU incorrect tray	5/30/2024 17:41
35	20240530-035	E2400547-01	Perchlorate6850c.lcm	1X	DNU incorrect tray	5/30/2024 17:42
36	20240530-036	E2400548-01	Perchlorate6850c.lcm	1X	DNU incorrect tray	5/30/2024 17:48
37	20240530-037	E2400548-02	Perchlorate6850c.lcm	1X	DNU incorrect tray	5/30/2024 17:52
	20240530-038	E2400548-03	Perchlorate6850c.lcm	1X	DNU incorrect tray	5/30/2024 17:54
	20240530-039	E2400548-04	Perchlorate6850c.lcm	1X	DNU incorrect tray	5/30/2024 18:00
	20240530-040	CCV	Perchlorate6850c.lcm	1X		5/30/2024 18:05

842465/842622

Injection Log

LCMS01 -Shimadzu 8050

1st Review: CG
2nd Review:

ICAL Date: 5/23/2024
Cal. Std. xp: 8/13/2024
ICAL ID: EC2400008

Mobile Phases : A:20mM ammonium acetate in water **3211810-9 B:**Acetonitrile 3211810-8
LODV: 233573 **CCV:233565**

	File Name	Sample Name	Acquisition Method	Dilution	Comments	Date/Time
	20240530-041	IB	Perchlorate6850c.lcm	1X		5/30/2024 18:11
	20240530-042	E2400548-05	Perchlorate6850c.lcm	1X	DNU DL	5/30/2024 18:16
	20240530-043	E2400548-06	Perchlorate6850c.lcm	1X	DNU RI	5/30/2024 18:22
	20240530-044	E2400548-07	Perchlorate6850c.lcm	1X		5/30/2024 18:27
	20240530-045	E2400548-08	Perchlorate6850c.lcm	1X	DNU DL	5/30/2024 18:33
	20240530-046	E2400548-09	Perchlorate6850c.lcm	1X	DNU DL	5/30/2024 18:39
	20240530-047	E2400548-10	Perchlorate6850c.lcm	1X	DNU RI	5/30/2024 18:44

842781

Injection Log

LCMS01 -Shimadzu 8050

1st Review: CG
2nd Review:

ICAL Date: 5/23/2024
Cal. Std. xp: 8/13/2024
ICAL ID: EC2400008

Mobile Phases : A:20mM ammonium acetate in water **3211810-9 B:**Acetonitrile 3211810-8
LODV: 233573 **CCV:233565**

	File Name	Sample Name	Acquisition Method	Dilution	Comments	Date/Time
1	20240531-001	IB	Perchlorate6850c.lcm	1x		5/31/2024 11:57
2	20240531-002	LODV	Perchlorate6850c.lcm	1x		5/31/2024 12:03
3	20240531-003	ICS	Perchlorate6850c.lcm	1x		5/31/2024 12:11
4	20240531-004	CCV	Perchlorate6850c.lcm	1x		5/31/2024 12:17
5	20240531-005	IB	Perchlorate6850c.lcm	1x		5/31/2024 12:22
6	20240531-006	EQ2400267-01	Perchlorate6850c.lcm	1x	DNU out of range	5/31/2024 12:28
7	20240531-007	EQ2400267-02	Perchlorate6850c.lcm	1x		5/31/2024 12:33
8	20240531-008	EQ2400267-03	Perchlorate6850c.lcm	1x		5/31/2024 12:39
9	20240531-009	EQ2400267-04	Perchlorate6850c.lcm	1x		5/31/2024 12:44
10	20240531-010	EQ2400267-05	Perchlorate6850c.lcm	1x		5/31/2024 12:50
11	20240531-011	E2400547-01	Perchlorate6850c.lcm	1x	DNU DL	5/31/2024 12:55
12	20240531-012	EQ2400267-01	Perchlorate6850c.lcm	1x		5/31/2024 13:01
13	20240531-013	E2400548-01	Perchlorate6850c.lcm	1x	DNU DL	5/31/2024 13:06
14	20240531-014	E2400548-02	Perchlorate6850c.lcm	1x	DNU DL	5/31/2024 13:12
15	20240531-015	E2400548-03	Perchlorate6850c.lcm	1x	DNU DL	5/31/2024 13:18
16	20240531-016	E2400548-04	Perchlorate6850c.lcm	1x	/IB forgot to adjust file name (loc	5/31/2024 13:34
17	20240531-017	CCV	Perchlorate6850c.lcm	1x		5/31/2024 13:23
18	20240531-018	IB	Perchlorate6850c.lcm	1x		5/31/2024 13:29
19	20240531-019	E2400548-10	Perchlorate6850c.lcm	1x		5/31/2024 13:40
20	20240531-020	E2400548-06	Perchlorate6850c.lcm	1x		5/31/2024 13:45
21	20240531-021	E2400548-05 100X	Perchlorate6850c.lcm	100x		5/31/2024 13:51
22	20240531-022	E2400548-08 10000	Perchlorate6850c.lcm	10000x		5/31/2024 13:57
23	20240531-023	E2400548-09 10000	Perchlorate6850c.lcm	10000x		5/31/2024 14:02
24	20240531-024	E2400548-14 10000	Perchlorate6850c.lcm	10000x		5/31/2024 14:08
25	20240531-025	CCV	Perchlorate6850c.lcm	1x		5/31/2024 14:13
26	20240531-026	IB	Perchlorate6850c.lcm	1x		5/31/2024 14:19
27	20240531-027	E2400548-16	Perchlorate6850c.lcm	1x		5/31/2024 14:24
28	20240531-028	E2400548-18	Perchlorate6850c.lcm	1x		5/31/2024 14:30
29	20240531-029	EQ2400268-01	Perchlorate6850c.lcm	1x		5/31/2024 14:35
30	20240531-030	EQ2400268-02	Perchlorate6850c.lcm	1x		5/31/2024 14:41
31	20240531-031	EQ2400268-03	Perchlorate6850c.lcm	1x		5/31/2024 14:46
32	20240531-032	EQ2400268-04	Perchlorate6850c.lcm	1x		5/31/2024 14:52
33	20240531-033	E2400556-01	Perchlorate6850c.lcm	1x		5/31/2024 14:57
34	20240531-034	E2400556-02	Perchlorate6850c.lcm	1x	DNU	5/31/2024 15:03
35	20240531-035	E2400548-15 10000	Perchlorate6850c.lcm	10000x		5/31/2024 15:09
36	20240531-036	E2400548-17 10000	Perchlorate6850c.lcm	10000x		5/31/2024 15:14
37	20240531-037	CCV	Perchlorate6850c.lcm	1x		5/31/2024 15:20
38	20240531-038	IB	Perchlorate6850c.lcm	1x		5/31/2024 15:25
39	20240531-039	E2400556-03	Perchlorate6850c.lcm	1x	DNU ISs	5/31/2024 15:31
40	20240531-040	E2400557-01	Perchlorate6850c.lcm	1x		5/31/2024 15:36

842781

Injection Log

LCMS01 -Shimadzu 8050

1st Review: CG
2nd Review:

ICAL Date: 5/23/2024
Cal. Std. xp: 8/13/2024
ICAL ID: EC2400008

Mobile Phases : A:20mM ammonium acetate in water **3211810-9 B:**Acetonitrile 3211810-8
LODV: 233573 **CCV:233565**

	File Name	Sample Name	Acquisition Method	Dilution	Comments	Date/Time
41	20240531-041	E2400557-02	Perchlorate6850c.lcm	1x	DNU ISs	5/31/2024 15:42
42	20240531-042	E2400563-01	Perchlorate6850c.lcm	1x	DNU	5/31/2024 15:47
43	20240531-043	E2400563-02	Perchlorate6850c.lcm	1x	dnu	5/31/2024 15:53
44	20240531-044	E2400563-03	Perchlorate6850c.lcm	1x	DNU ISs	5/31/2024 15:58
45	20240531-045	E2400566-01	Perchlorate6850c.lcm	1x	DNU	5/31/2024 16:04
46	20240531-046	E2400566-02	Perchlorate6850c.lcm	1x	DNU ISs	5/31/2024 16:10
47	20240531-047	E2400566-03	Perchlorate6850c.lcm	1x	DNU ISs	5/31/2024 16:15

QA/QC Report

Client: ALS Environmental - US **Service Request:** E2400566
Project: HS24051300 **Date Analyzed:** 5/30/24 18:05

Internal Standard Area and RT Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

File ID: I:\LCMS01\DATA\20240530\20240530-040 **Lab Code:** EQ2400269-01
Instrument ID: E-LCMS-01 **Analysis Lot:** 842622
Analytical Method: 6850 **Signal ID:** 1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	466,310	3.47
	Upper Limit ==>	699,465	5.47
	Lower Limit ==>	233,155	1.47
Associated Analyses			
Continuing Calibration Verification	EQ2400269-01	467,875	3.46

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

QA/QC Report

Client: ALS Environmental - US **Service Request:** E2400566
Project: HS24051300 **Date Analyzed:** 5/30/24 19:12

Internal Standard Area and RT Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

File ID: I:\LCMS01\DATA\20240530\20240530-052 **Lab Code:** EQ2400269-02
Instrument ID: E-LCMS-01 **Analysis Lot:** 842622
Analytical Method: 6850 **Signal ID:** 1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	466,310	3.47
	Upper Limit ==>	699,465	5.47
	Lower Limit ==>	233,155	1.47
Associated Analyses			
Continuing Calibration Verification	EQ2400269-02	454,462	3.46

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

QA/QC Report

Client: ALS Environmental - US **Service Request:** E2400566
Project: HS24051300 **Date Analyzed:** 5/30/24 20:18

Internal Standard Area and RT Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

File ID: I:\LCMS01\DATA\20240530\20240530-064 **Lab Code:** EQ2400269-03
Instrument ID: E-LCMS-01 **Analysis Lot:** 842622
Analytical Method: 6850 **Signal ID:** 1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	466,310	3.47
	Upper Limit ==>	699,465	5.47
	Lower Limit ==>	233,155	1.47
Associated Analyses			
Continuing Calibration Verification	EQ2400269-03	466,715	3.46
50WW16_052024	E2400566-001	414,107	3.46
50WW15_052024	E2400566-004	395,834	3.46

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

QA/QC Report

Client: ALS Environmental - US **Service Request:** E2400566
Project: HS24051300 **Date Analyzed:** 5/30/24 21:25

Internal Standard Area and RT Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

File ID: I:\LCMS01\DATA\20240530\20240530-076 **Lab Code:** EQ2400269-04
Instrument ID: E-LCMS-01 **Analysis Lot:** 842622
Analytical Method: 6850 **Signal ID:** 1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	466,310	3.47
	Upper Limit ==>	699,465	5.47
	Lower Limit ==>	233,155	1.47
Associated Analyses			
Continuing Calibration Verification	EQ2400269-04	432,699	3.46

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

QA/QC Report

Client: ALS Environmental - US **Service Request:** E2400566
Project: HS24051300 **Date Analyzed:** 5/31/24 12:17

Internal Standard Area and RT Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

File ID: I:\LCMS01\DATA\20240531\20240531-004 **Lab Code:** EQ2400272-01
Instrument ID: E-LCMS-01 **Analysis Lot:** 842781
Analytical Method: 6850 **Signal ID:** 1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	466,310	3.47
	Upper Limit ==>	699,465	5.47
	Lower Limit ==>	233,155	1.47
Associated Analyses			
Continuing Calibration Verification	EQ2400272-01	412,559	3.46

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

QA/QC Report

Client: ALS Environmental - US **Service Request:** E2400566
Project: HS24051300 **Date Analyzed:** 5/31/24 13:23

Internal Standard Area and RT Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

File ID: I:\LCMS01\DATA\20240531\20240531-017 **Lab Code:** EQ2400272-02
Instrument ID: E-LCMS-01 **Analysis Lot:** 842781
Analytical Method: 6850 **Signal ID:** 1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	466,310	3.47
	Upper Limit ==>	699,465	5.47
	Lower Limit ==>	233,155	1.47
Associated Analyses			
Continuing Calibration Verification	EQ2400272-02	386,740	3.46

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

QA/QC Report

Client: ALS Environmental - US **Service Request:** E2400566
Project: HS24051300 **Date Analyzed:** 5/31/24 14:13

Internal Standard Area and RT Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

File ID: I:\LCMS01\DATA\20240531\20240531-025 **Lab Code:** EQ2400272-03
Instrument ID: E-LCMS-01 **Analysis Lot:** 842781
Analytical Method: 6850 **Signal ID:** 1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	466,310	3.47
	Upper Limit ==>	699,465	5.47
	Lower Limit ==>	233,155	1.47
Associated Analyses			
Continuing Calibration Verification	EQ2400272-03	374,551	3.46
Method Blank	EQ2400268-01	334,256	3.46
Lab Control Sample	EQ2400268-02	324,942	3.46
Duplicate Lab Control Sample	EQ2400268-03	321,396	3.46

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

QA/QC Report

Client: ALS Environmental - US **Service Request:** E2400566
Project: HS24051300 **Date Analyzed:** 5/31/24 15:20

Internal Standard Area and RT Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

File ID: I:\LCMS01\DATA\20240531\20240531-037 **Lab Code:** EQ2400272-04
Instrument ID: E-LCMS-01 **Analysis Lot:** 842781
Analytical Method: 6850 **Signal ID:** 1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	466,310	3.47
	Upper Limit ==>	699,465	5.47
	Lower Limit ==>	233,155	1.47
Associated Analyses			
Continuing Calibration Verification	EQ2400272-04	356,549	3.46

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

QA/QC Report

Client: ALS Environmental - US **Service Request:** E2400566
Project: HS24051300 **Date Analyzed:** 5/31/24 16:26

Internal Standard Area and RT Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

File ID: I:\LCMS01\DATA\20240531\20240531-049 **Lab Code:** EQ2400272-05
Instrument ID: E-LCMS-01 **Analysis Lot:** 842781
Analytical Method: 6850 **Signal ID:** 1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	466,310	3.47
	Upper Limit ==>	699,465	5.47
	Lower Limit ==>	233,155	1.47
Associated Analyses			
Continuing Calibration Verification	EQ2400272-05	315,667	3.46
50WW05_052124	E2400566-008	274,203	3.45
50WW13_052124	E2400566-006	300,140	3.45
50WW11_052124	E2400566-007	293,693	3.46

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

QA/QC Report

Client: ALS Environmental - US **Service Request:** E2400566
Project: HS24051300 **Date Analyzed:** 5/31/24 17:16

Internal Standard Area and RT Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

File ID: I:\LCMS01\DATA\20240531\20240531-058 **Lab Code:** EQ2400272-06
Instrument ID: E-LCMS-01 **Analysis Lot:** 842781
Analytical Method: 6850 **Signal ID:** 1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	466,310	3.47
	Upper Limit ==>	699,465	5.47
	Lower Limit ==>	233,155	1.47
Associated Analyses			
Continuing Calibration Verification	EQ2400272-06	298,706	3.46
50WW18_052024	E2400566-002	244,049	3.46

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

QA/QC Report

Client: ALS Environmental - US **Service Request:** E2400566
Project: HS24051300 **Date Analyzed:** 5/31/24 18:00

Internal Standard Area and RT Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

File ID: I:\LCMS01\DATA\20240531\20240531-066 **Lab Code:** EQ2400272-07
Instrument ID: E-LCMS-01 **Analysis Lot:** 842781
Analytical Method: 6850 **Signal ID:** 1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	466,310	3.47
	Upper Limit ==>	699,465	5.47
	Lower Limit ==>	233,155	1.47
Associated Analyses			
Continuing Calibration Verification	EQ2400272-07	268,553	3.46

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

QA/QC Report

Client: ALS Environmental - US **Service Request:** E2400566
Project: HS24051300 **Date Analyzed:** 5/31/24 18:45

Internal Standard Area and RT Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

File ID: I:\LCMS01\DATA\20240531\20240531-074 **Lab Code:** EQ2400272-08
Instrument ID: E-LCMS-01 **Analysis Lot:** 842781
Analytical Method: 6850 **Signal ID:** 1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	466,310	3.47
	Upper Limit ==>	699,465	5.47
	Lower Limit ==>	233,155	1.47
Associated Analyses			
Continuing Calibration Verification	EQ2400272-08	254,889	3.45

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

QA/QC Report

Client: ALS Environmental - US **Service Request:** E2400566
Project: HS24051300 **Date Analyzed:** 6/3/24 14:28

Internal Standard Area and RT Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

File ID: I:\LCMS01\DATA\20240603\20240603-005 **Lab Code:** EQ2400276-01
Instrument ID: E-LCMS-01 **Analysis Lot:** 842873
Analytical Method: 6850 **Signal ID:** 1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	466,310	3.47
	Upper Limit ==>	699,465	5.47
	Lower Limit ==>	233,155	1.47
Associated Analyses			
Continuing Calibration Verification	EQ2400276-01	306,117	3.46
50WW22_052024	E2400566-003	251,833	3.46
50WW14_052124	E2400566-005	263,150	3.46
50WW29_052124	E2400566-009	244,174	3.46

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

Client: ALS Environmental - US **Service Request:** E2400566
Project: HS24051300 **Date Analyzed:** 6/3/24 15:13

Internal Standard Area and RT Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

File ID: I:\LCMS01\DATA\20240603\20240603-013 **Lab Code:** EQ2400276-02
Instrument ID: E-LCMS-01 **Analysis Lot:** 842873
Analytical Method: 6850 **Signal ID:** 1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	466,310	3.47
	Upper Limit ==>	699,465	5.47
	Lower Limit ==>	233,155	1.47
Associated Analyses			
Continuing Calibration Verification	EQ2400276-02	316,241	3.46

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

Client: ALS Environmental - US **Service Request:** E2400566
Project: HS24051300 **Date Analyzed:** 5/30/24

Continuing Calibration Verification Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850 **Calibration Date:** 5/23/24
File ID: I:\LCMS01\DATA\20240530\20240530-040 **Calibration ID:** EC2400008
Analysis Lot: 842622
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	11.4	0.1325	0.1509	13.9	NA	± 15 %	Average RF

Client: ALS Environmental - US **Service Request:** E2400566
Project: HS24051300 **Date Analyzed:** 5/30/24

Continuing Calibration Verification Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850 **Calibration Date:** 5/23/24
File ID: I:\LCMS01\DATA\20240530\20240530-052 **Calibration ID:** EC2400008
Analysis Lot: 842622
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	10.8	0.1325	0.1430	8.0	NA	± 15 %	Average RF

Client: ALS Environmental - US **Service Request:** E2400566
Project: HS24051300 **Date Analyzed:** 5/30/24

Continuing Calibration Verification Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850 **Calibration Date:** 5/23/24
File ID: I:\LCMS01\DATA\20240530\20240530-064 **Calibration ID:** EC2400008
Analysis Lot: 842622
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	10.9	0.1325	0.1444	9.0	NA	± 15 %	Average RF

Client: ALS Environmental - US **Service Request:** E2400566
Project: HS24051300 **Date Analyzed:** 5/30/24

Continuing Calibration Verification Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850 **Calibration Date:** 5/23/24
File ID: I:\LCMS01\DATA\20240530\20240530-076 **Calibration ID:** EC2400008
Analysis Lot: 842622
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	11.1	0.1325	0.1467	10.8	NA	± 15 %	Average RF

Client: ALS Environmental - US **Service Request:** E2400566
Project: HS24051300 **Date Analyzed:** 5/31/24

Continuing Calibration Verification Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850 **Calibration Date:** 5/23/24
File ID: I:\LCMS01\DATA\20240531\20240531-004 **Calibration ID:** EC2400008
Analysis Lot: 842781
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	10.8	0.1325	0.1431	8.0	NA	± 15 %	Average RF

Client: ALS Environmental - US **Service Request:** E2400566
Project: HS24051300 **Date Analyzed:** 5/31/24

Continuing Calibration Verification Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850 **Calibration Date:** 5/23/24
File ID: I:\LCMS01\DATA\20240531\20240531-017 **Calibration ID:** EC2400008
Analysis Lot: 842781
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	11.1	0.1325	0.1469	10.9	NA	± 15 %	Average RF

Client: ALS Environmental - US **Service Request:** E2400566
Project: HS24051300 **Date Analyzed:** 5/31/24

Continuing Calibration Verification Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850 **Calibration Date:** 5/23/24
File ID: I:\LCMS01\DATA\20240531\20240531-025 **Calibration ID:** EC2400008
Analysis Lot: 842781
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	11.0	0.1325	0.1463	10.5	NA	± 15 %	Average RF

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS24051300

Service Request: E2400566
Date Analyzed: 5/31/24

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\20240531\20240531-037

Calibration Date: 5/23/24
Calibration ID: EC2400008
Analysis Lot: 842781
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	11.3	0.1325	0.1497	13.1	NA	± 15 %	Average RF

Client: ALS Environmental - US **Service Request:** E2400566
Project: HS24051300 **Date Analyzed:** 5/31/24

Continuing Calibration Verification Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850 **Calibration Date:** 5/23/24
File ID: I:\LCMS01\DATA\20240531\20240531-049 **Calibration ID:** EC2400008
Analysis Lot: 842781
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	11.1	0.1325	0.1470	11.0	NA	± 15 %	Average RF

Client: ALS Environmental - US **Service Request:** E2400566
Project: HS24051300 **Date Analyzed:** 5/31/24

Continuing Calibration Verification Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850 **Calibration Date:** 5/23/24
File ID: I:\LCMS01\DATA\20240531\20240531-058 **Calibration ID:** EC2400008
Analysis Lot: 842781
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	11.0	0.1325	0.1461	10.3	NA	± 15 %	Average RF

Client: ALS Environmental - US **Service Request:** E2400566
Project: HS24051300 **Date Analyzed:** 5/31/24

Continuing Calibration Verification Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850 **Calibration Date:** 5/23/24
File ID: I:\LCMS01\DATA\20240531\20240531-066 **Calibration ID:** EC2400008
Analysis Lot: 842781
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	11.0	0.1325	0.1454	9.7	NA	± 15 %	Average RF

Client: ALS Environmental - US **Service Request:** E2400566
Project: HS24051300 **Date Analyzed:** 5/31/24

Continuing Calibration Verification Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850 **Calibration Date:** 5/23/24
File ID: I:\LCMS01\DATA\20240531\20240531-074 **Calibration ID:** EC2400008
Analysis Lot: 842781
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	11.4	0.1325	0.1508	13.9	NA	± 15 %	Average RF

Client: ALS Environmental - US **Service Request:** E2400566
Project: HS24051300 **Date Analyzed:** 6/ 3/24

Continuing Calibration Verification Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850 **Calibration Date:** 5/23/24
File ID: I:\LCMS01\DATA\20240603\20240603-005 **Calibration ID:** EC2400008
Analysis Lot: 842873
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	11.0	0.1325	0.1452	9.6	NA	± 15 %	Average RF

Client: ALS Environmental - US **Service Request:** E2400566
Project: HS24051300 **Date Analyzed:** 6/ 3/24

Continuing Calibration Verification Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850 **Calibration Date:** 5/23/24
File ID: I:\LCMS01\DATA\20240603\20240603-013 **Calibration ID:** EC2400008
Analysis Lot: 842873
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	11.1	0.1325	0.1465	10.6	NA	± 15 %	Average RF

Insight Report

Printed at 5/31/2024 1:29:00 PM

Method File: I:\LCMS01\DATA\20240530\20240530.lcm
Project File: I:\LCMS01\DATA\20240530\20240530.damlp

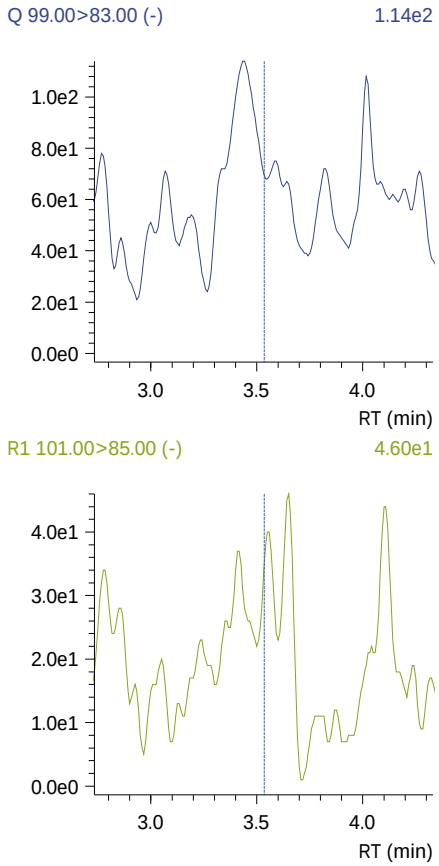
IB

Sample ID: IB
Date Acquired: 5/30/2024 11:43:56 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240530\20240530-001.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	ND(W/B)	----	----	345578	----	ng/mL	101.00 >85.00	0.00	23.50 -43.64
Sodium Perchlorate-18O4_IS	Auto	3.470	345578	345578	1.0000	ng/mL	----	----	

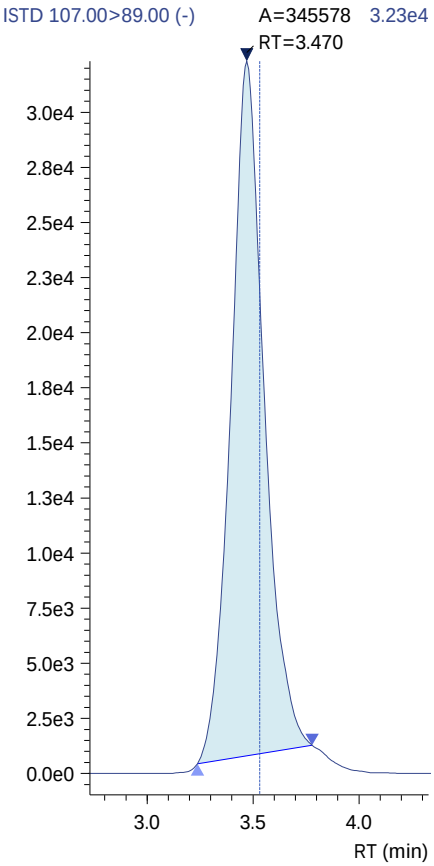
Perchlorate

Conc ----
R#1 0.00 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

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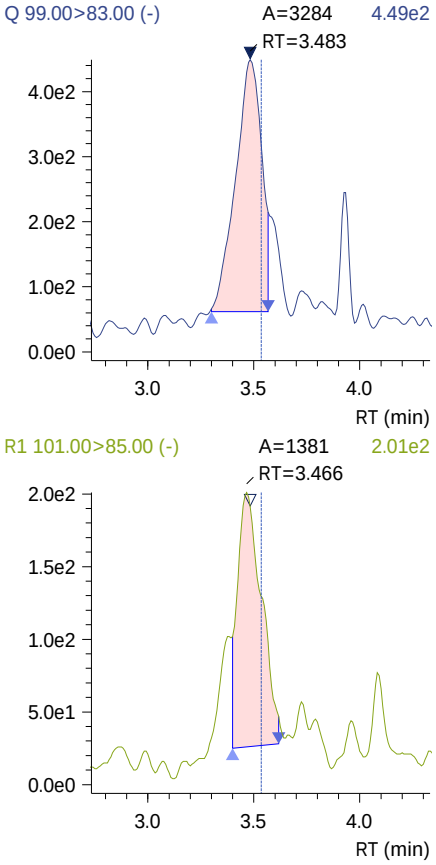
LODV

Sample ID: LODV
Date Acquired: 5/30/2024 11:49:27 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240530\20240530-002.lcd
Vial: 12 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.483	3284	373065	0.0665	ng/mL	101.00 >85.00	42.04	23.50 -43.64
Sodium Perchlorate-18O4 _IS	Auto	3.470	3730 65	373065	1.0000	ng/mL	----	----	

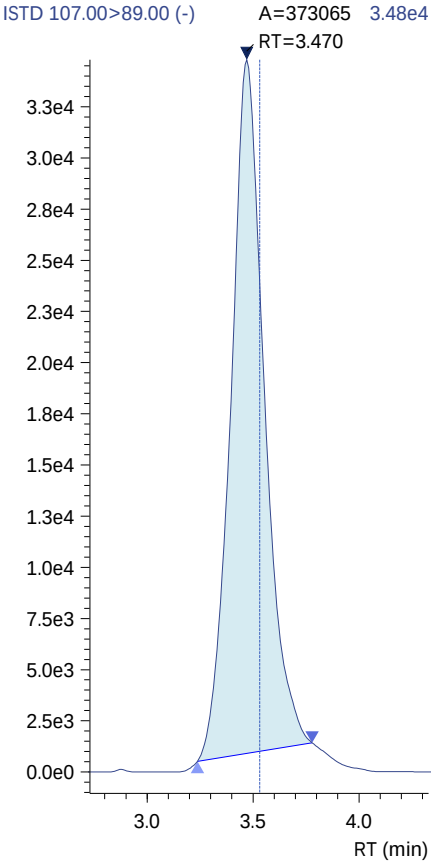
Perchlorate

Conc 0.0665
R#1 42.04 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

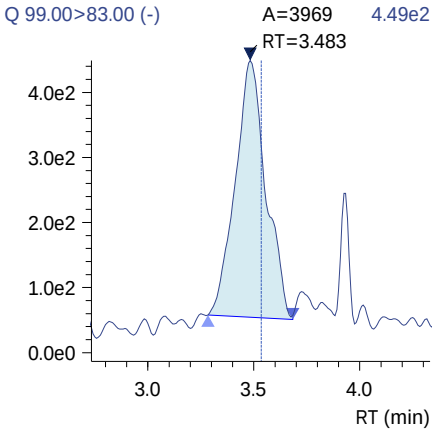
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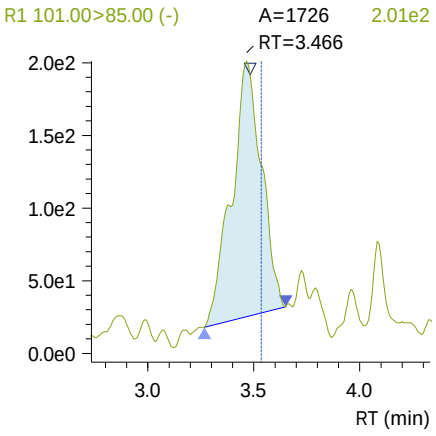
LODV

Sample ID: LODV
Date Acquired: 5/30/2024 11:49:27 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240530\20240530-002.lcd
Vial: 12 | Inj. Volume: 10.0000uL | Tray: 1

Perchlorate

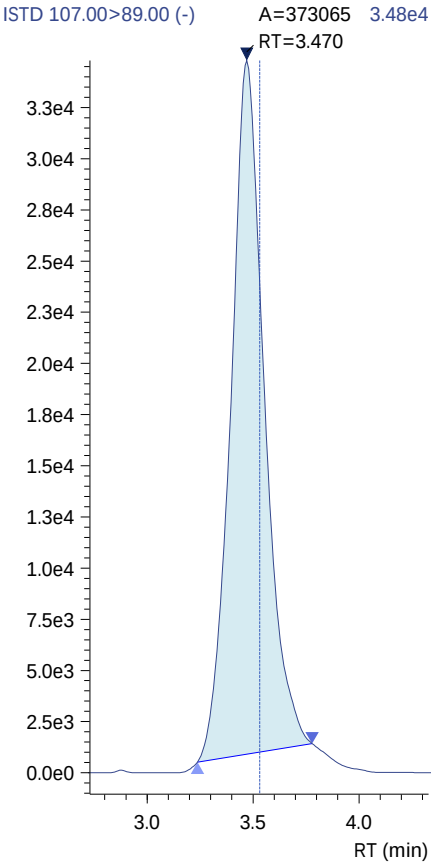
Conc 0.0803
R#1 43.47 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

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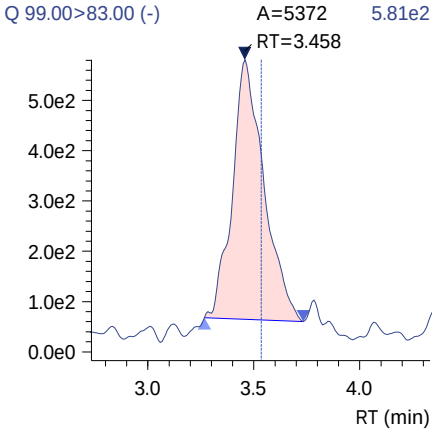
ICS

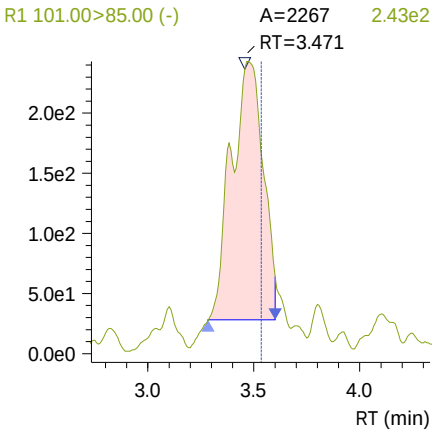
Sample ID: ICS
Date Acquired: 5/30/2024 11:55:01 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240530\20240530-003.lcd
Vial: 15 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	MI	3.458	5372	371242	0.1092	ng/mL	101.00 >85.00	42.20	23.50 -43.64
Sodium Perchlorate-18O4_IS	Auto	3.473	371242	371242	1.0000	ng/mL	----	----	

Perchlorate

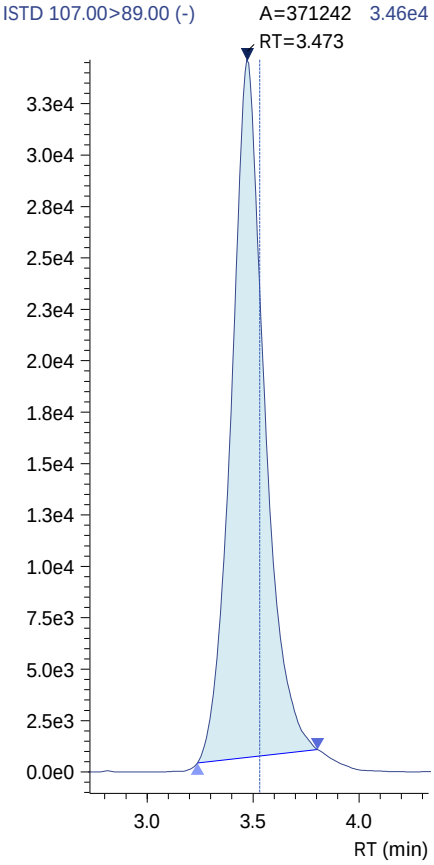
Conc 0.1092
R#1 42.20 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

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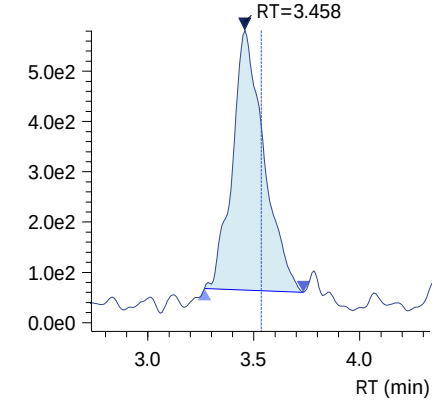
ICS

Sample ID: ICS
Date Acquired: 5/30/2024 11:55:01 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240530\20240530-003.lcd
Vial: 15 | Inj. Volume: 10.0000uL | Tray: 1

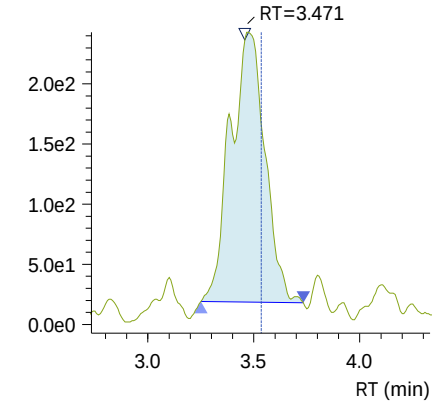
Perchlorate

Conc 0.1092
R#1 47.72 (34.10)

Q 99.00>83.00 (-) A=5372 5.81e2
RT=3.458



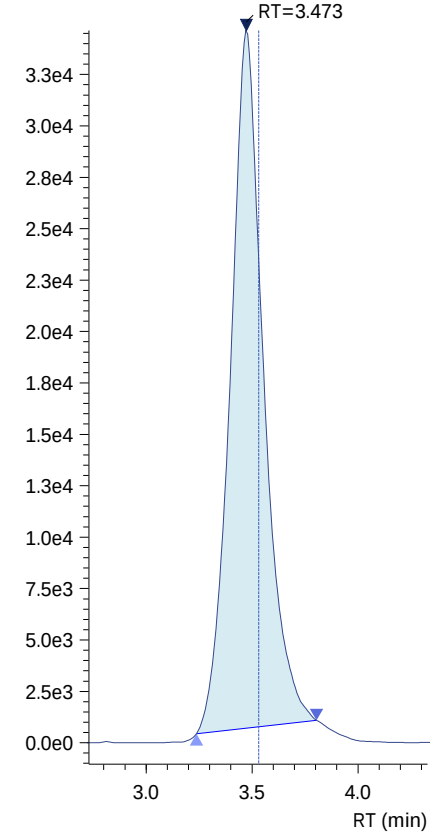
R1 101.00>85.00 (-) A=2564 2.43e2
RT=3.471



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=371242 3.46e4
RT=3.473



Insight Report

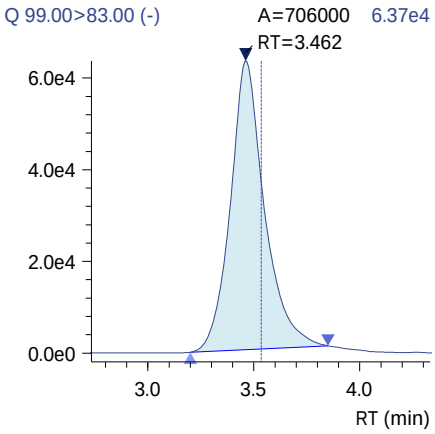
Method File: I:\LCMS01\DATA\20240530\20240530.lcm
Project File: I:\LCMS01\DATA\20240530\20240530.damlp

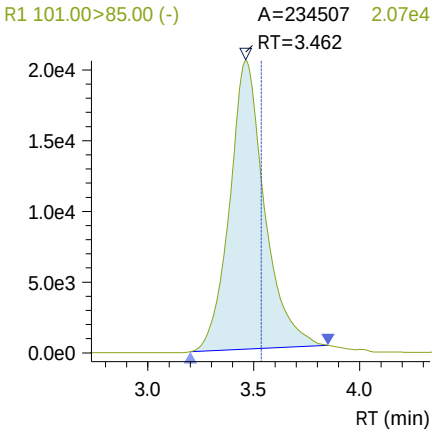
CCV

Sample ID: CCV
Date Acquired: 5/30/2024 6:05:49 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240530\20240530-040.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

Perchlorate

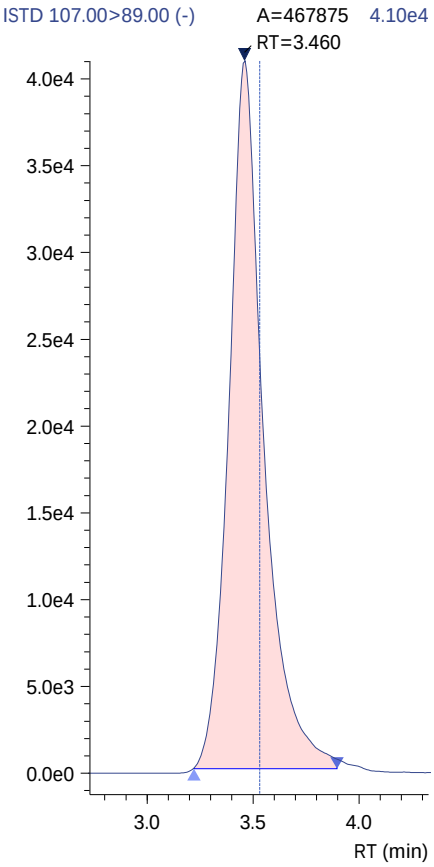
Conc 11.3918
R#1 33.22 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

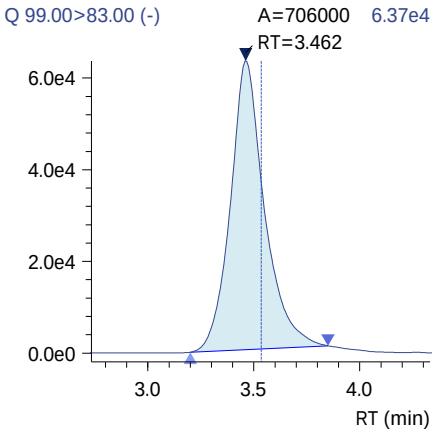
Method File: I:\LCMS01\DATA\20240530\20240530.lcm
Project File: I:\LCMS01\DATA\20240530\20240530.damlp

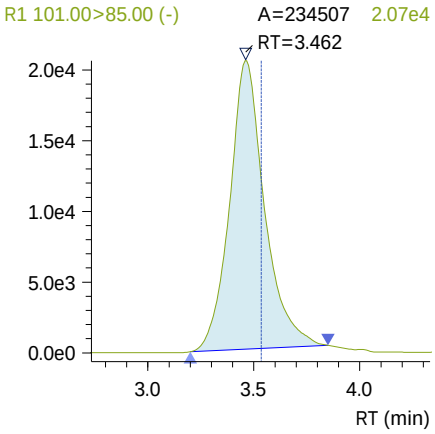
CCV

Sample ID: CCV
Date Acquired: 5/30/2024 6:05:49 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240530\20240530-040.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

Perchlorate

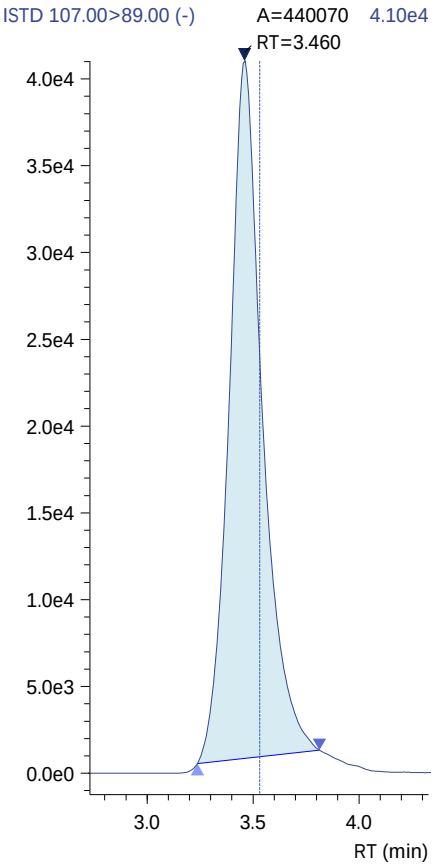
Conc 12.1116
R#1 33.22 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

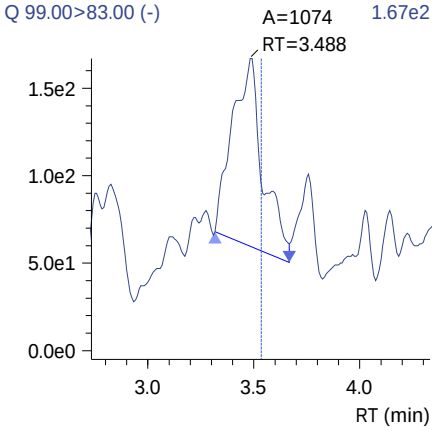
IB

Sample ID: IB
Date Acquired: 5/30/2024 6:11:19 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240530\20240530-041.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

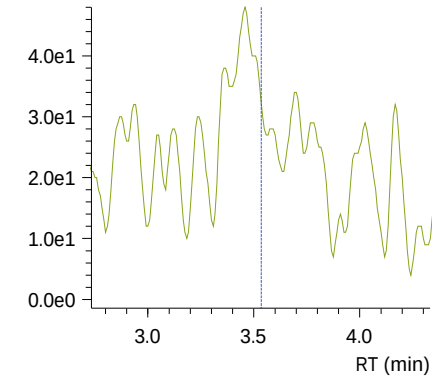
Perchlorate

Conc ----
R#1 0.00 (34.10)

Q 99.00>83.00 (-) 1.67e2



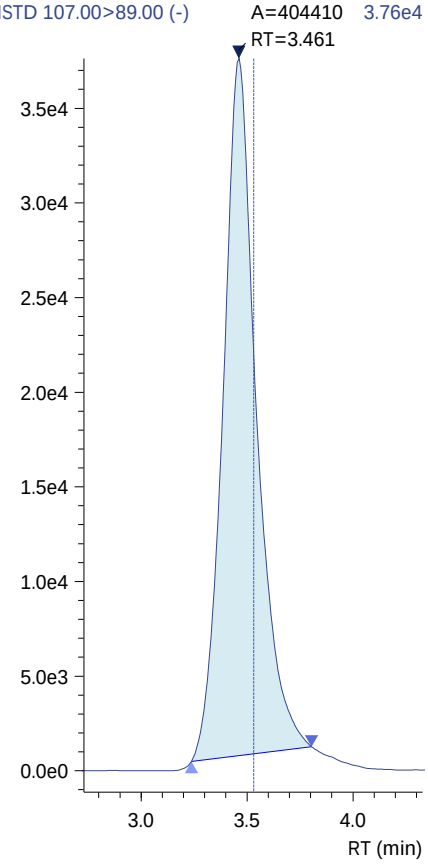
R1 101.00>85.00 (-) 4.80e1



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 3.76e4



Insight Report

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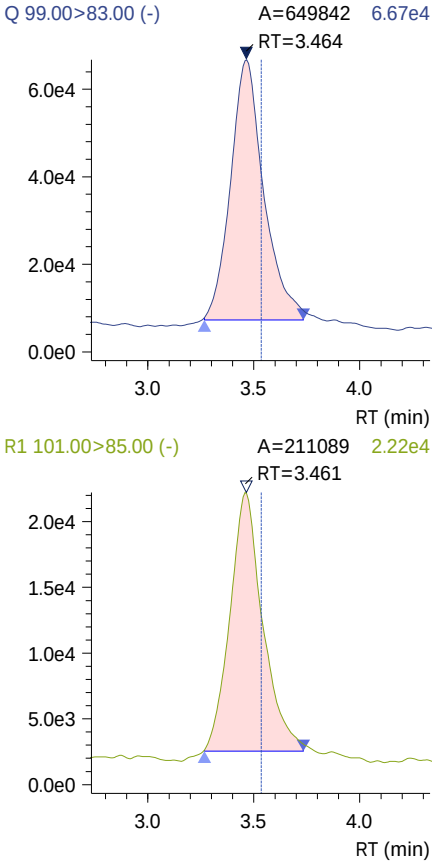
CCV

Sample ID: CCV
Date Acquired: 5/30/2024 7:12:17 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240530\20240530-052.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.464	649842 6.67e4	454462	10.7951	ng/mL	101.00 >85.00	32.48	23.50 -43.64
Sodium Perchlorate-18O4_IS	M	3.458	454462	454462	1.0000	ng/mL	----	----	

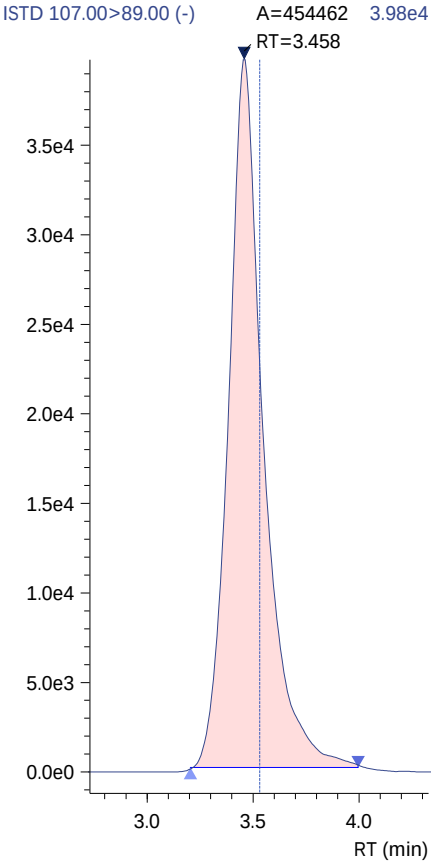
Perchlorate

Conc 10.7951
R#1 32.48 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 5/31/2024 1:29:00 PM

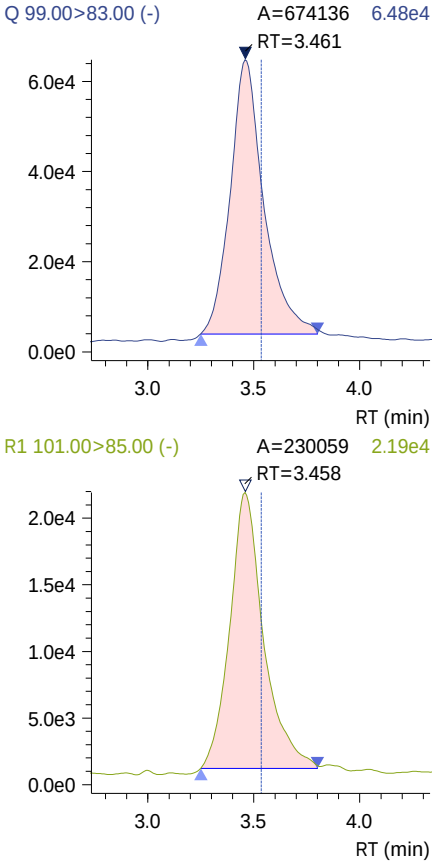
CCV

Sample ID: CCV
Date Acquired: 5/30/2024 8:18:55 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240530\20240530-064.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.461	674136	466715	10.9047	ng/mL	101.00 >85.00	34.13	23.50 -43.64
Sodium Perchlorate-18O4_IS	M	3.458	466715	466715	1.0000	ng/mL	----	----	

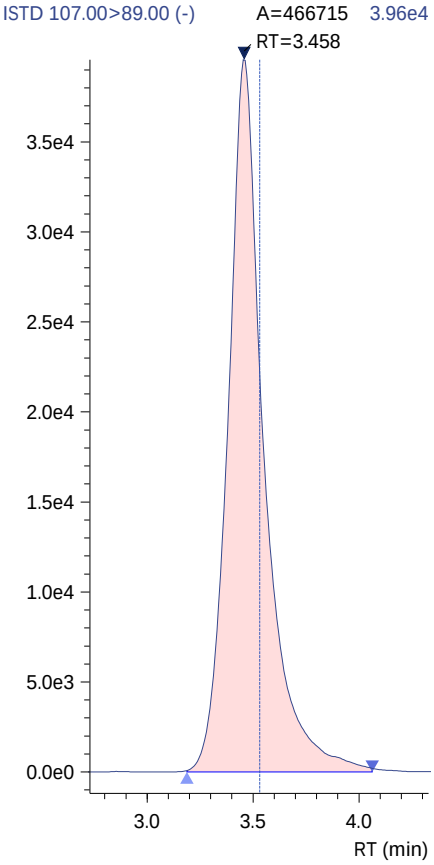
Perchlorate

Conc 10.9047
R#1 34.13 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 5/31/2024 1:29:46 PM

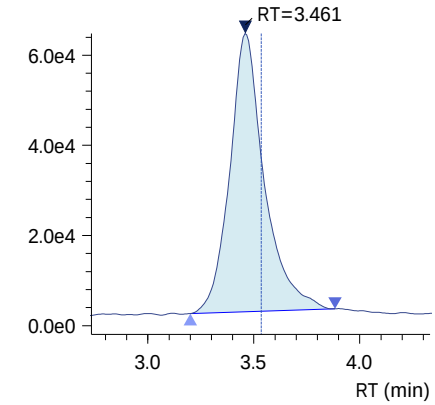
CCV

Sample ID: CCV
Date Acquired: 5/30/2024 8:18:55 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240530\20240530-064.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

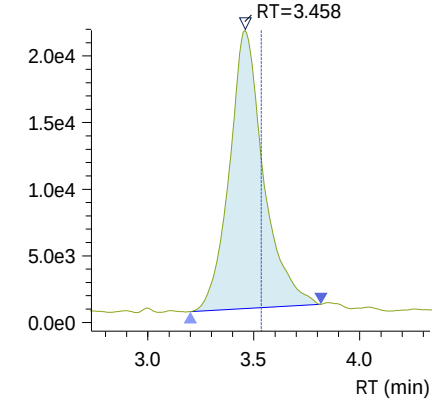
Perchlorate

Conc 12.4931
R#1 33.42 (34.10)

Q 99.00>83.00 (-) A=702326 6.48e4



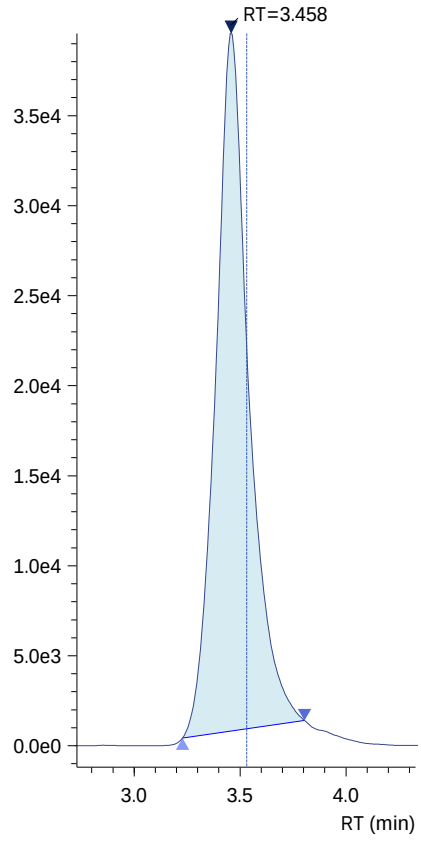
R1 101.00>85.00 (-) A=234681 2.19e4



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=424409 3.96e4



Insight Report

Printed at 5/31/2024 1:29:00 PM

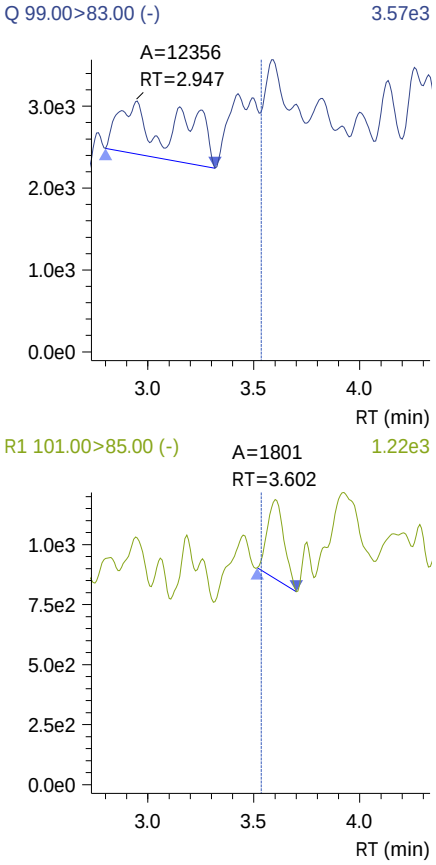
IB

Sample ID: IB
Date Acquired: 5/30/2024 8:24:28 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240530\20240530-065.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	ND(W/B)	----	----	396049	----	ng/mL	101.00 >85.00	0.00	23.50 -43.64
Sodium Perchlorate-18O4_IS	Auto	3.457	396049	396049	1.0000	ng/mL	----	----	

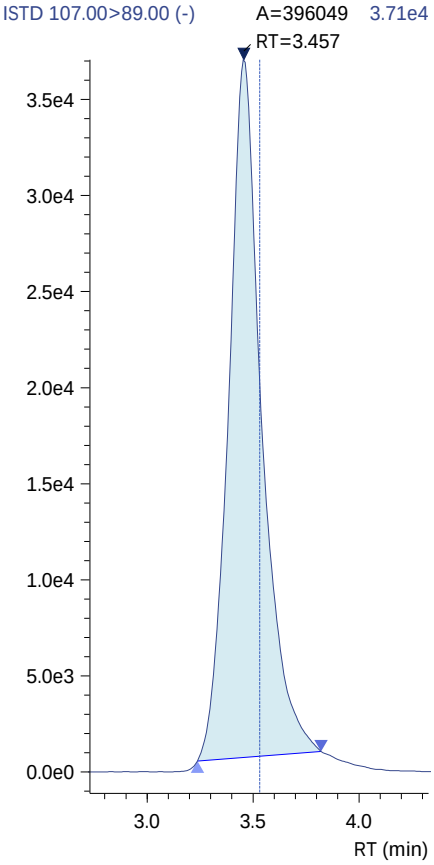
Perchlorate

Conc ----
R#1 0.00 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 5/31/2024 1:29:00 PM

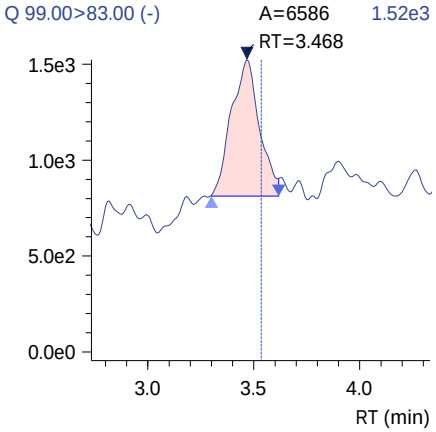
E2400566-01

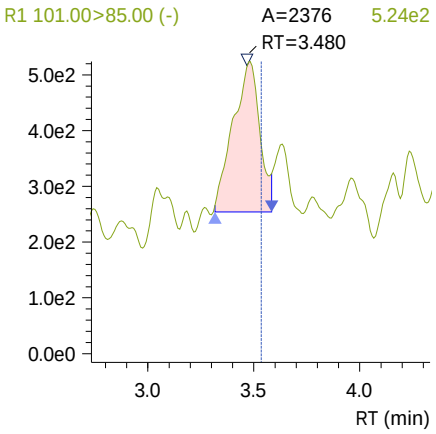
Sample ID: E2400566-01
Date Acquired: 5/30/2024 9:03:12 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240530\20240530-072.lcd
Vial: 37 | Inj. Volume: 10.0000uL | Tray: 2

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.468	6586	414107	0.1201	ng/mL	101.00 >85.00	36.07	23.50 -43.64
Sodium Perchlorate-18O4_IS	Auto	3.458	414107	414107	1.0000	ng/mL	----	----	

Perchlorate

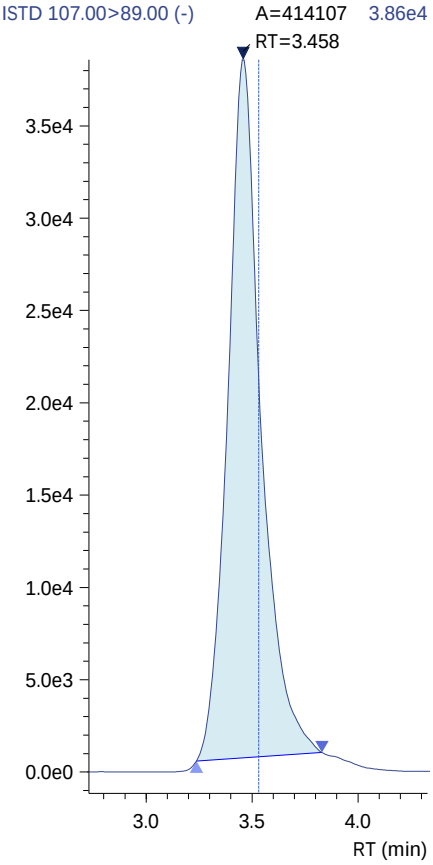
Conc 0.1201
R#1 36.07 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 5/31/2024 1:29:46 PM

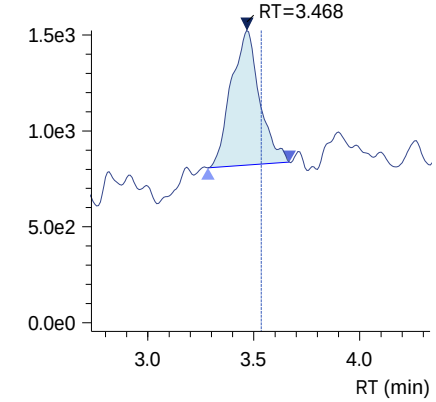
E2400566-01

Sample ID: E2400566-01
Date Acquired: 5/30/2024 9:03:12 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240530\20240530-072.lcd
Vial: 37 | Inj. Volume: 10.0000uL | Tray: 2

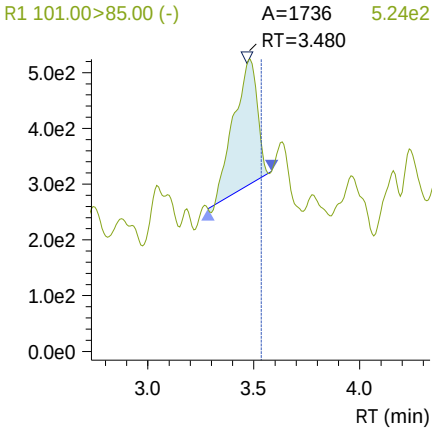
Perchlorate

Conc 0.1199
R#1 26.39 (34.10)

Q 99.00>83.00 (-) A=6577 1.52e3



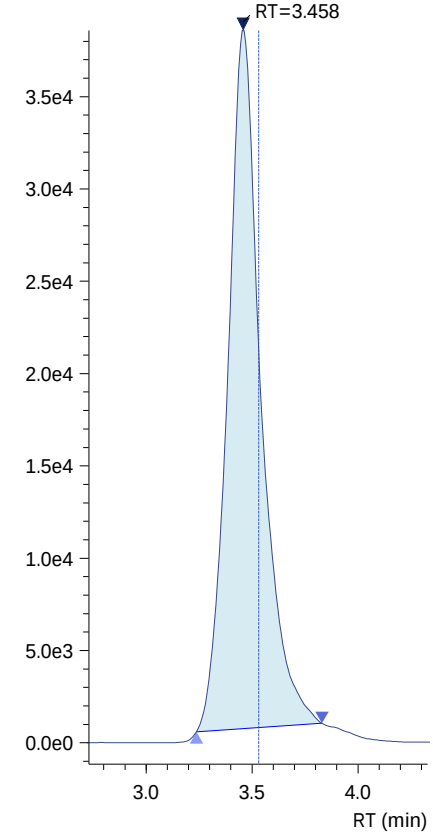
R1 101.00>85.00 (-) A=1736 5.24e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=414107 3.86e4



Insight Report

Printed at 5/31/2024 1:29:00 PM

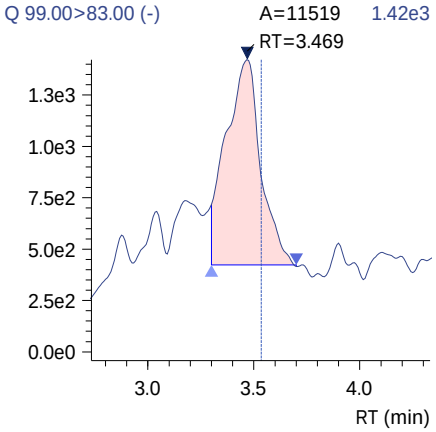
E2400566-04

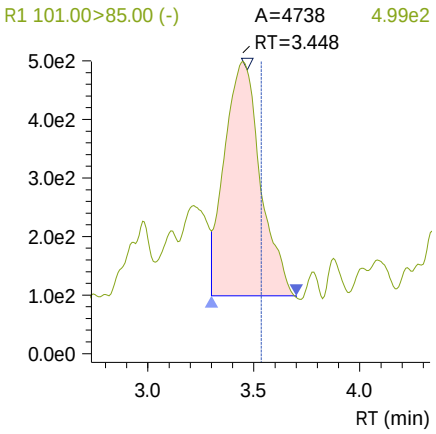
Sample ID: E2400566-04
Date Acquired: 5/30/2024 9:19:45 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240530\20240530-075.lcd
Vial: 40 | Inj. Volume: 10.0000uL | Tray: 2

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.469	11519	395834	0.2197	ng/mL	101.00 >85.00	41.14	23.50 -43.64
Sodium Perchlorate-18O4_IS	Auto	3.457	395834	395834	1.0000	ng/mL	----	----	

Perchlorate

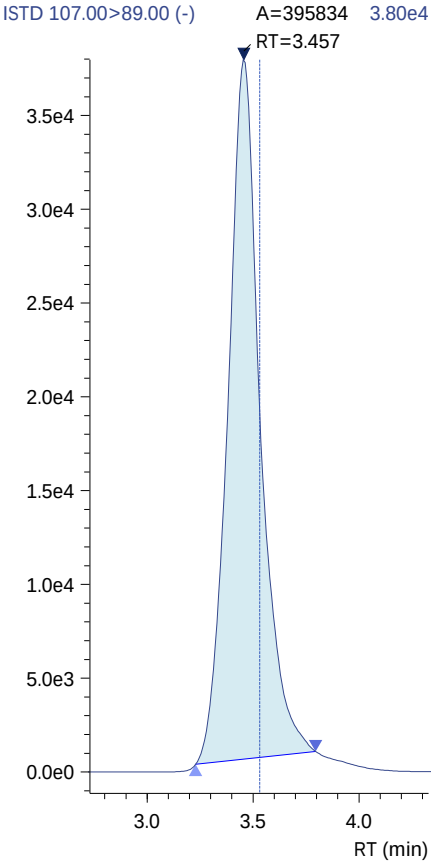
Conc 0.2197
R#1 41.14 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

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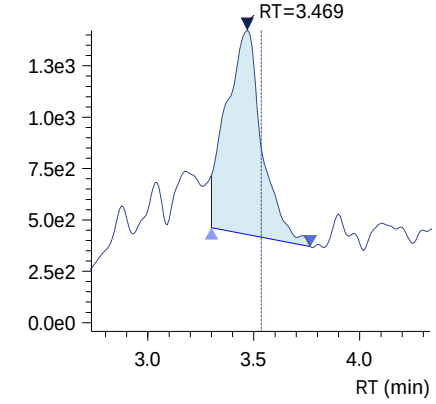
E2400566-04

Sample ID: E2400566-04
Date Acquired: 5/30/2024 9:19:45 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240530\20240530-075.lcd
Vial: 40 | Inj. Volume: 10.0000uL | Tray: 2

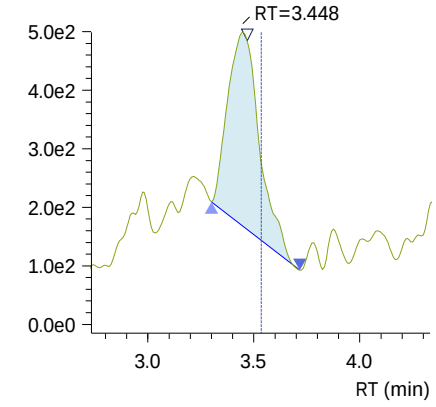
Perchlorate

Conc 0.2220
R#1 29.50 (34.10)

Q 99.00>83.00 (-) A=11638 1.42e3



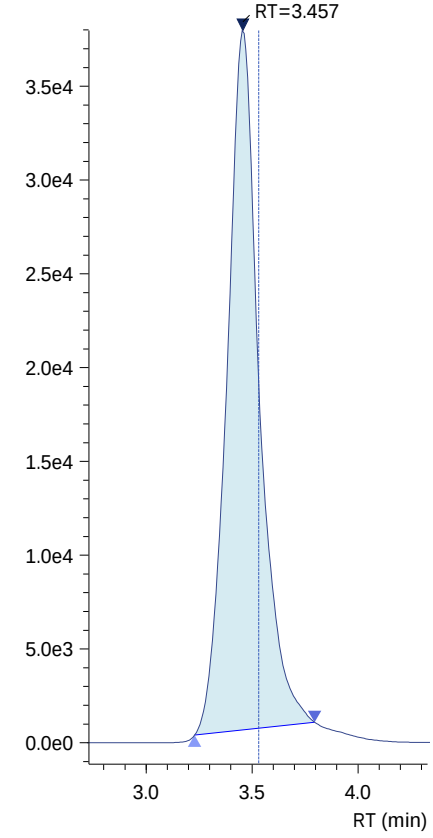
R1 101.00>85.00 (-) A=3434 4.99e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=395834 3.80e4



Insight Report

Printed at 5/31/2024 1:29:00 PM

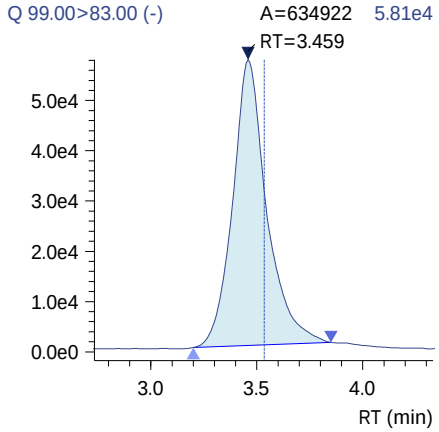
CCV

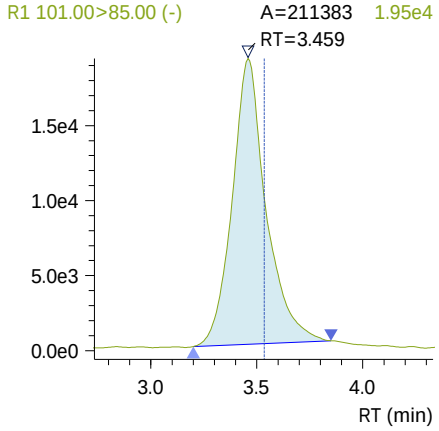
Sample ID: CCV
Date Acquired: 5/30/2024 9:25:15 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240530\20240530-076.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.459	6349 22	432699	11.0 777	ng/mL	101.00 >85.00	33.29	23.50 -43.64
Sodium Perchlorate-18O4_IS	M	3.456	4326 99	432699	1.0000	ng/mL	----	----	

Perchlorate

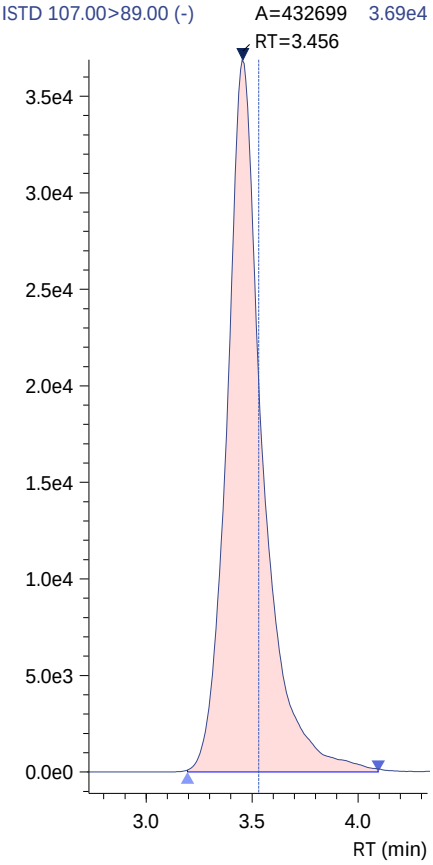
Conc 11.0777
R#1 33.29 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

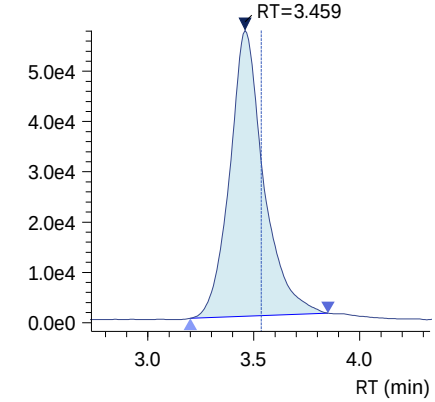
CCV

Sample ID: CCV
Date Acquired: 5/30/2024 9:25:15 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240530\20240530-076.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

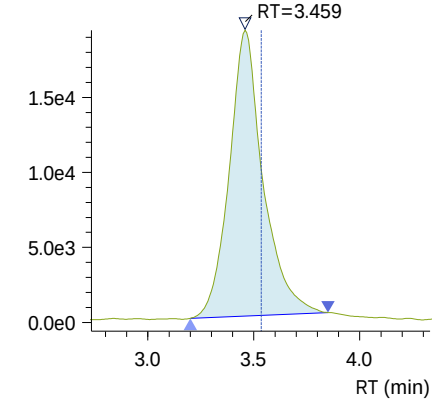
Perchlorate

Conc 11.9571
R#1 33.29 (34.10)

Q 99.00>83.00 (-) A=634922 5.81e4



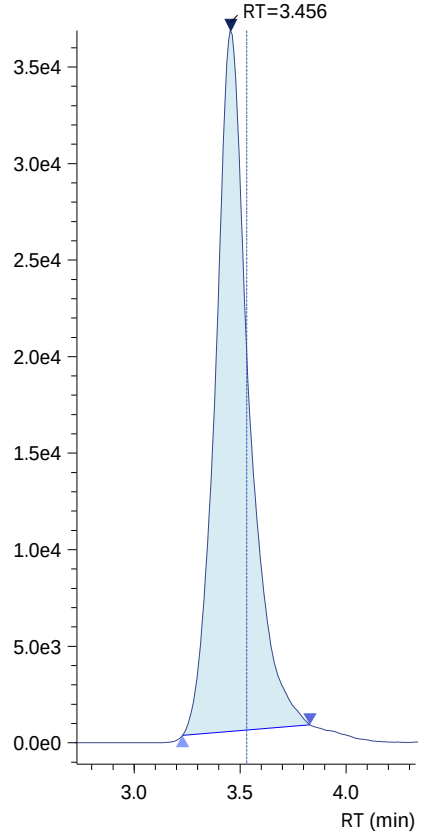
R1 101.00>85.00 (-) A=211383 1.95e4



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=400876 3.69e4



Insight Report

Printed at 5/31/2024 1:29:00 PM

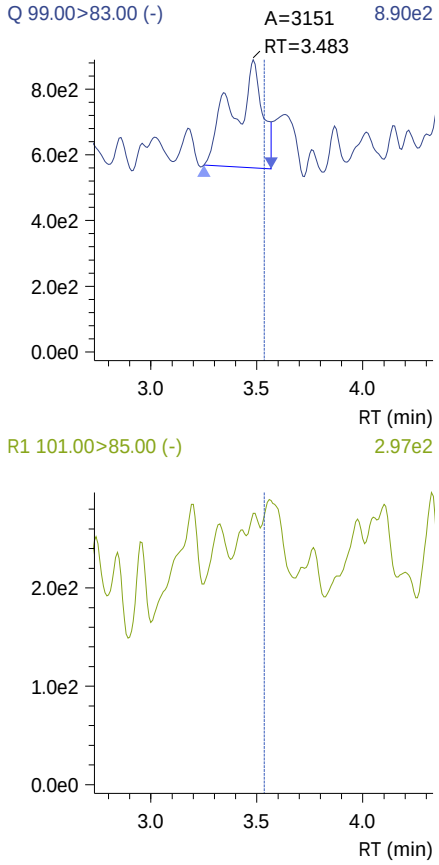
IB

Sample ID: IB
Date Acquired: 5/30/2024 9:30:46 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240530\20240530-077.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	NI	----	----	362316	----	ng/mL	101.00 >85.00	0.00	23.50 -43.64
Sodium Perchlorate-18O4_IS	Auto	3.456	362316	362316	1.0000	ng/mL	----	----	

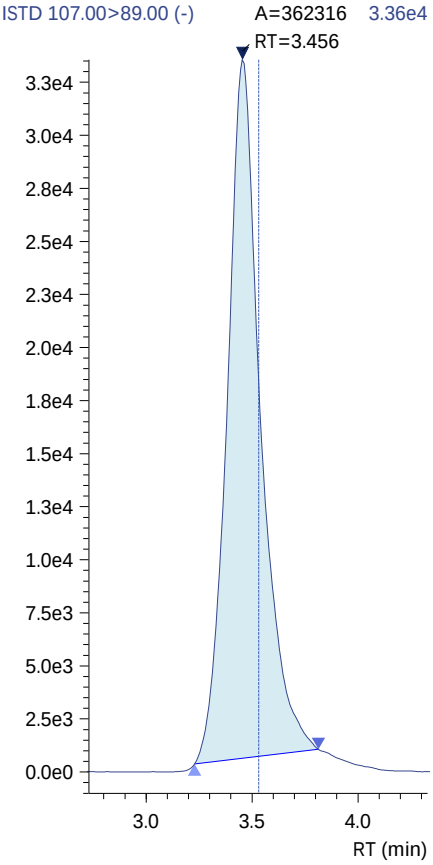
Perchlorate

Conc ----
R#1 0.00 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/3/2024 2:04:26 PM

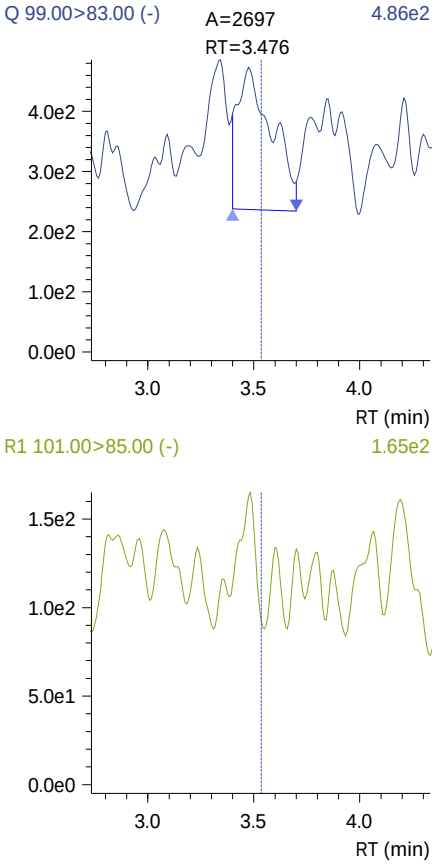
IB

Sample ID: IB
Date Acquired: 5/31/2024 11:57:41 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240531\20240531-001.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	NI	----	----	407268	----	ng/mL	101.00 >85.00	0.00	23.30 -43.28
Sodium Perchlorate -18O4_IS	Auto	3.463	407268	407268	1.0000	ng/mL	----	----	

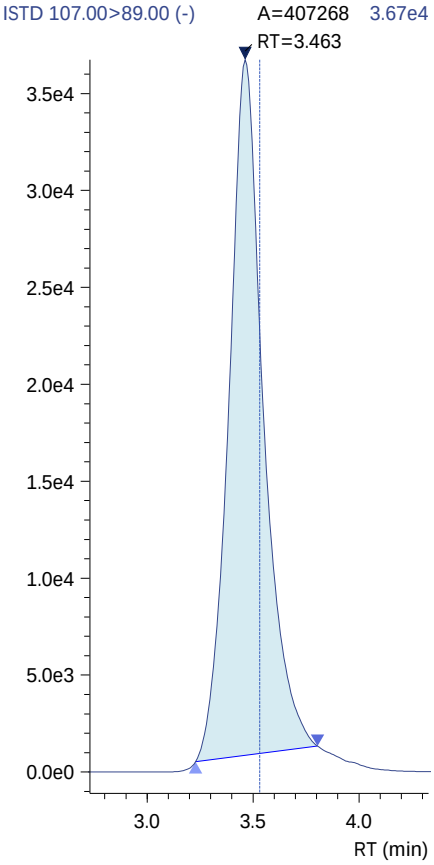
Perchlorate

Conc ----
R#1 0.00 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/3/2024 2:04:26 PM

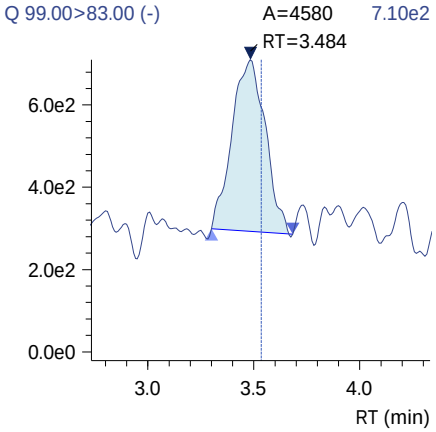
LODV

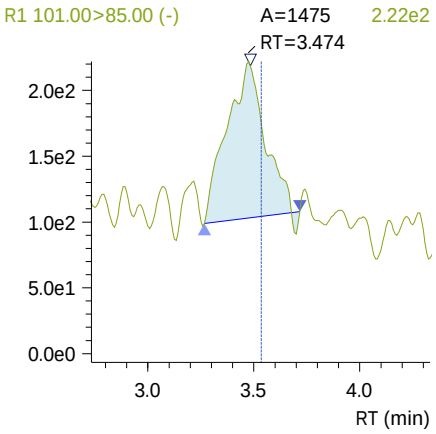
Sample ID: LODV
Date Acquired: 5/31/2024 12:03:13 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240531\20240531-002.lcd
Vial: 12 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.484	4580	372154	0.0929	ng/mL	101.00 >85.00	32.21	23.30 -43.28
Sodium Perchlorate -18O4_IS	Auto	3.462	372154	372154	1.0000	ng/mL	----	----	

Perchlorate

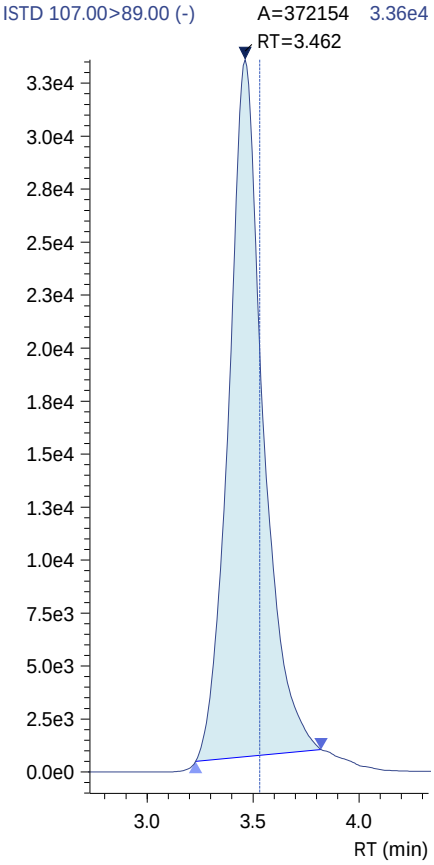
Conc 0.0929
R#1 32.21 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

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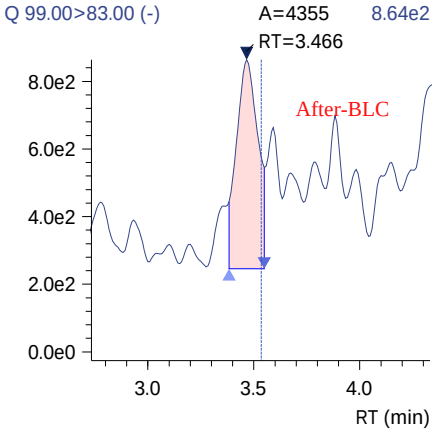
ICS

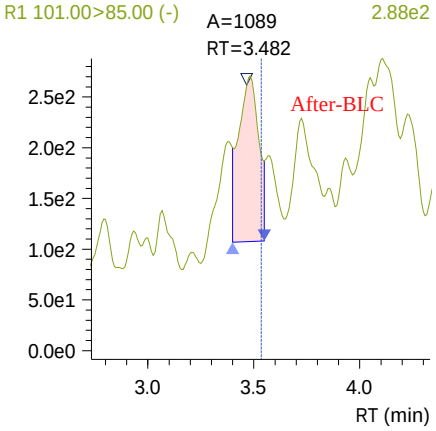
Sample ID: ICS
Date Acquired: 5/31/2024 12:11:31 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240531\20240531-003.lcd
Vial: 15 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.466	4355	393279	0.0836	ng/mL	101.00 >85.00	25.00	23.30 -43.28
Sodium Perchlorate -18O4_IS	M	3.464	393279	393279	1.0000	ng/mL	----	----	

Perchlorate

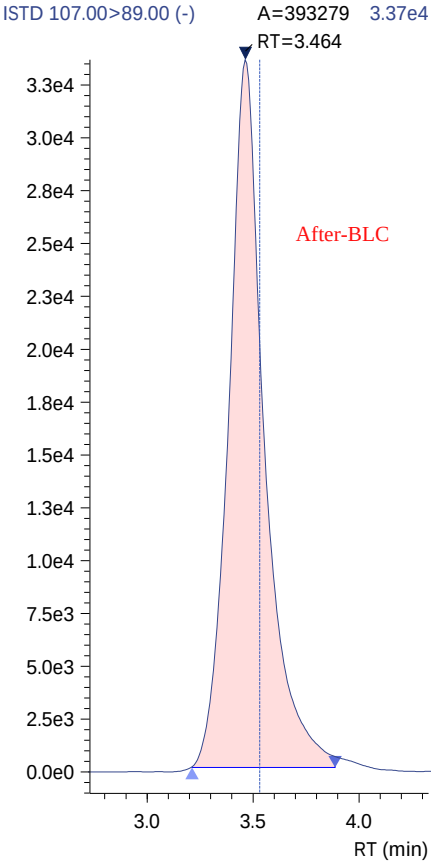
Conc 0.0836
R#1 25.00 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/3/2024 2:05:44 PM

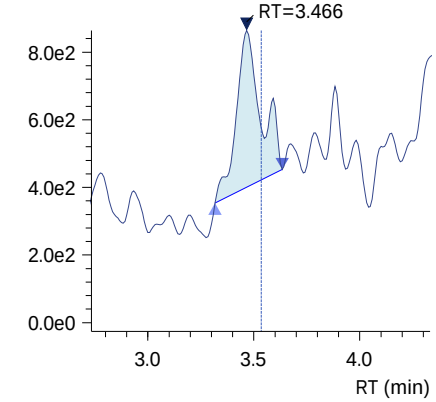
ICS

Sample ID: ICS
Date Acquired: 5/31/2024 12:11:31 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240531\20240531-003.lcd
Vial: 15 | Inj. Volume: 10.0000uL | Tray: 1

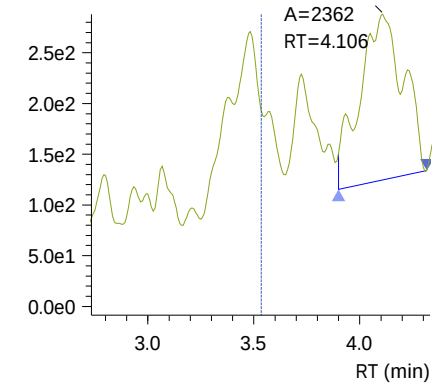
Perchlorate

Conc 0.0754
R#1 0.00 (34.10)

Q 99.00>83.00 (-) A=3700 8.64e2



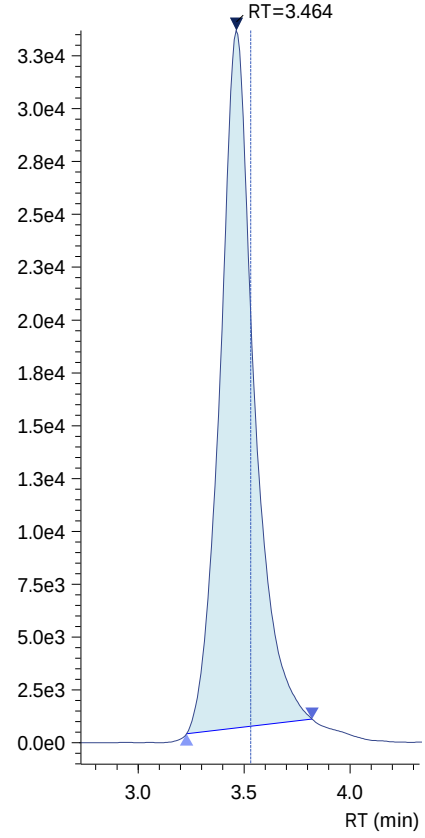
R1 101.00>85.00 (-) 2.88e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=370402 3.37e4



Insight Report

Method File: I:\LCMS01\DATA\20240531\20240531.lcm
Project File: I:\LCMS01\DATA\20240531\20240531.damlp

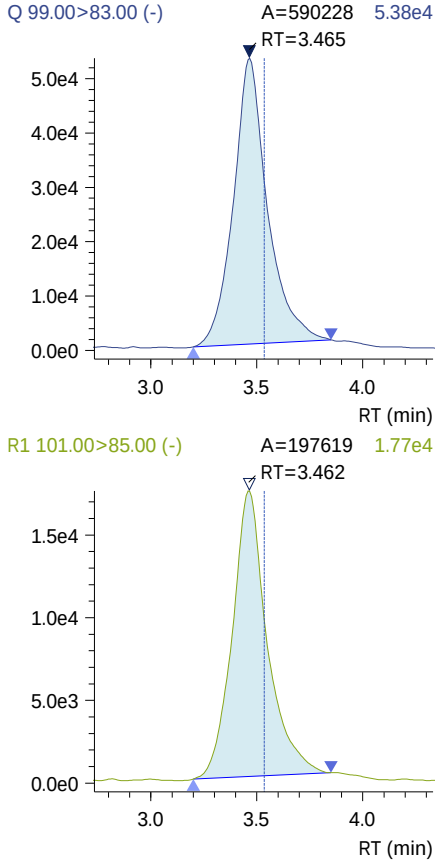
CCV

Sample ID: CCV
Date Acquired: 5/31/2024 12:17:05 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240531\20240531-004.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.465	590228	412559	10.8006	ng/mL	101.00 >85.00	33.48	23.30 -43.28
Sodium Perchlorate-18O4_IS	M	3.461	412559	412559	1.0000	ng/mL	----	----	

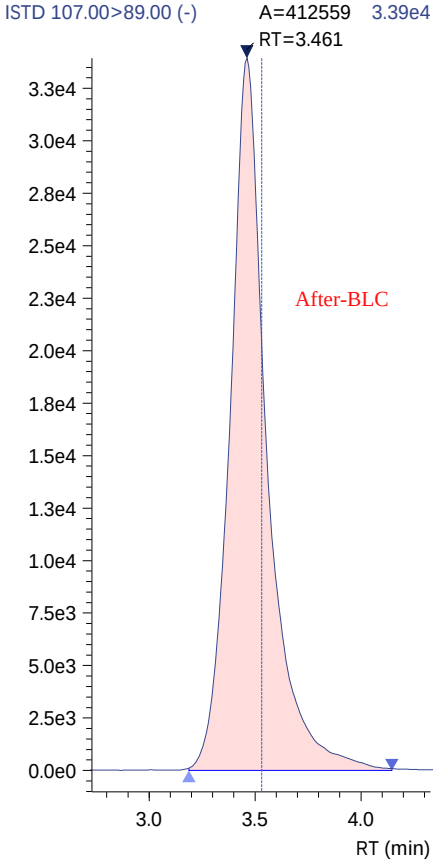
Perchlorate

Conc 10.8006
R#1 33.48 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Method File: I:\LCMS01\DATA\20240531\20240531.lcm
Project File: I:\LCMS01\DATA\20240531\20240531.damlp

CCV

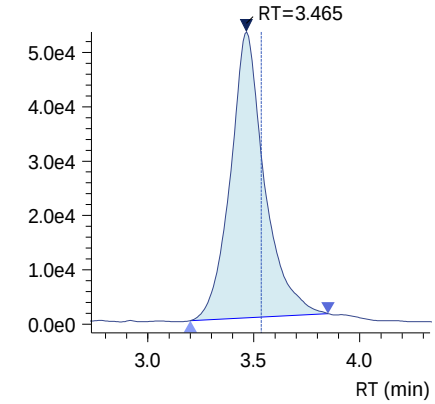
Sample ID: CCV
Date Acquired: 5/31/2024 12:17:05 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240531\20240531-004.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

Perchlorate

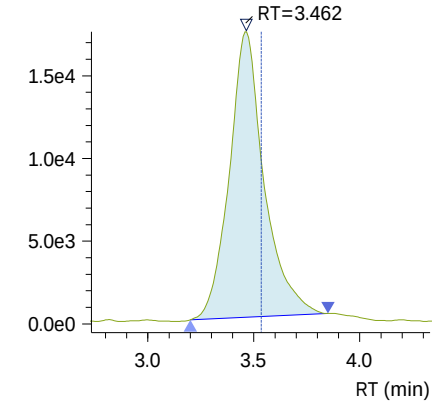
Conc 11.9457

R#1 33.48 (34.10)

Q 99.00>83.00 (-) A=590228 5.38e4



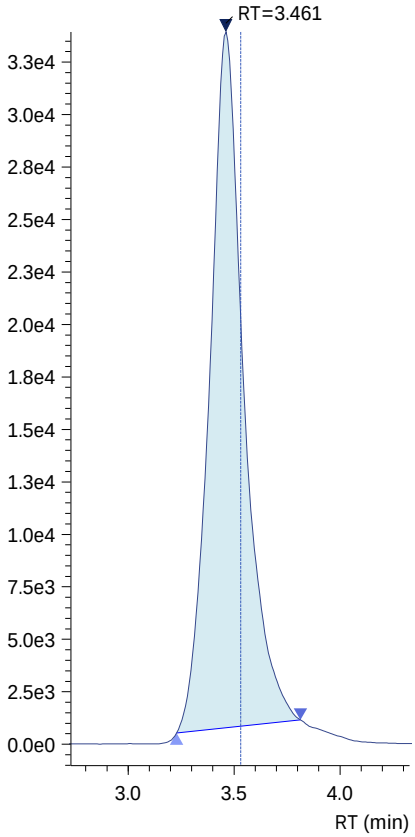
R1 101.00>85.00 (-) A=197619 1.77e4



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=373014 3.39e4



Insight Report

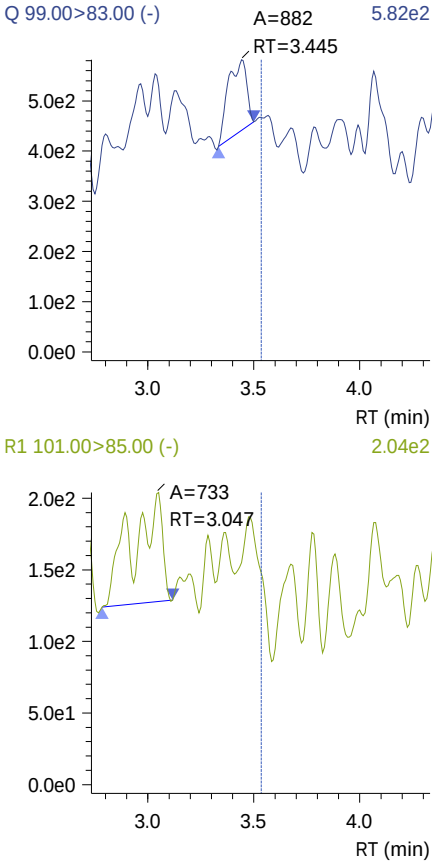
IB

Sample ID: IB
Date Acquired: 5/31/2024 12:22:38 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240531\20240531-005.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	NI	----	----	411556	----	ng/mL	101.00 >85.00	0.00	23.30 -43.28
Sodium Perchlorate -18O4_IS	Auto	3.461	411556	411556	1.0000	ng/mL	----	----	

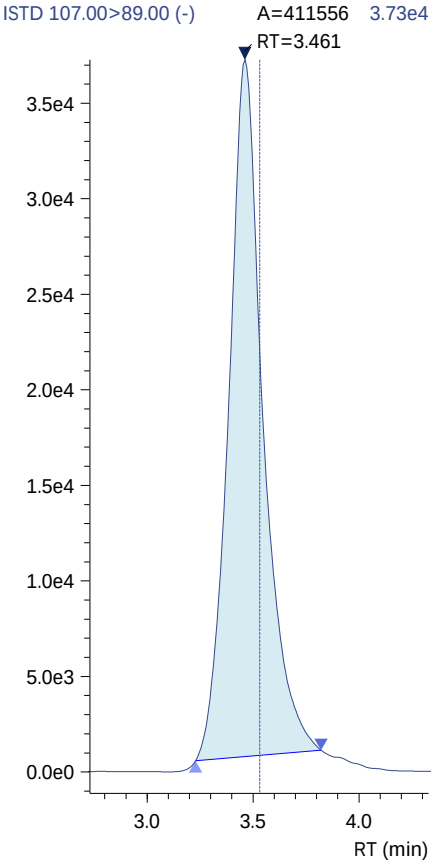
Perchlorate

Conc ----
R#1 0.00 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/3/2024 2:04:26 PM

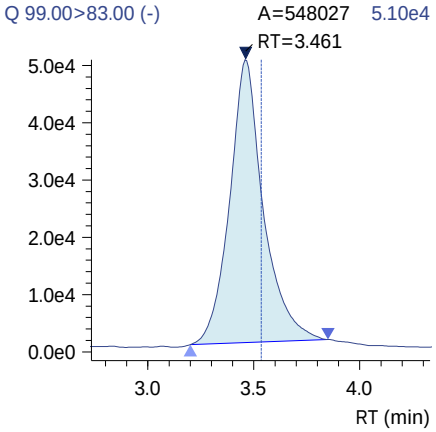
CCV

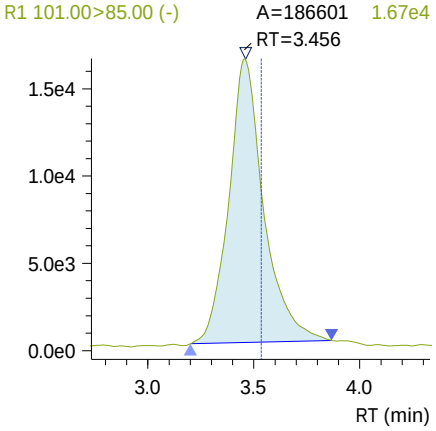
Sample ID: CCV
Date Acquired: 5/31/2024 2:13:43 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240531\20240531-025.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.461	548027	374551	11.0461	ng/mL	101.00 >85.00	34.05	23.30 -43.28
Sodium Perchlorate -18O4_IS	M	3.457	374551	374551	1.0000	ng/mL	----	----	

Perchlorate

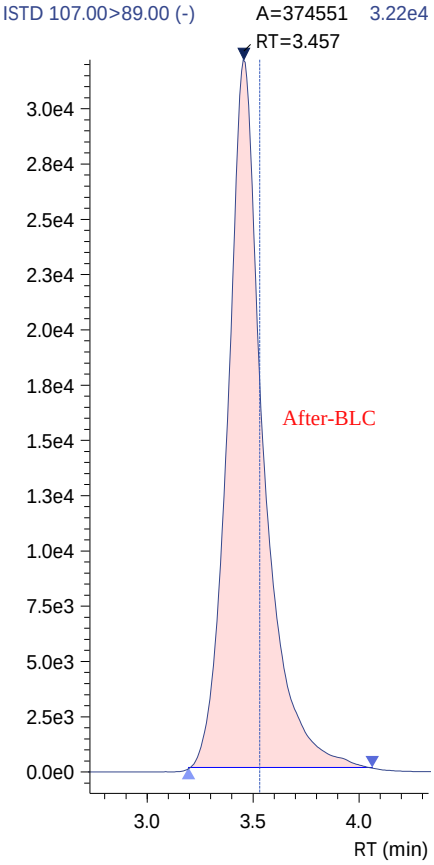
Conc 11.0461
R#1 34.05 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

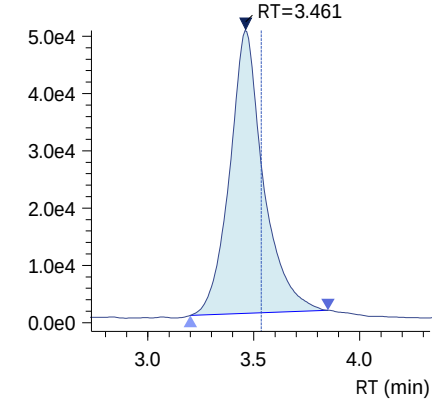
CCV

Sample ID: CCV
Date Acquired: 5/31/2024 2:13:43 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240531\20240531-025.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

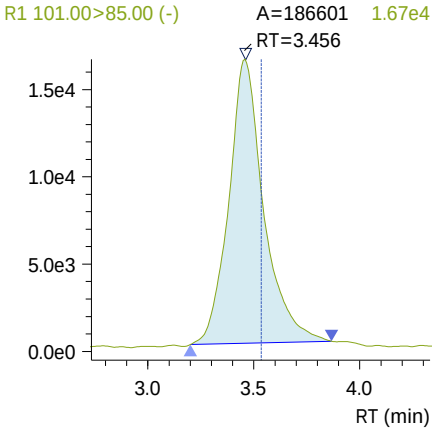
Perchlorate

Conc 11.9042
R#1 34.05 (34.10)

Q 99.00>83.00 (-) A=548027 5.10e4



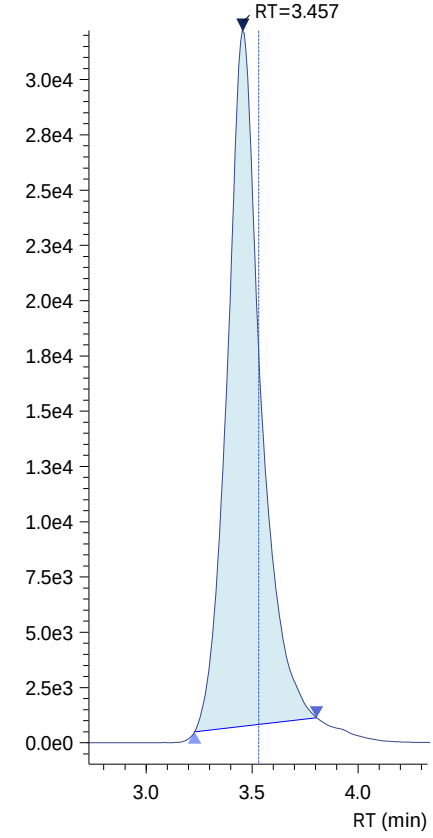
R1 101.00>85.00 (-) A=186601 1.67e4



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=347550 3.22e4



Insight Report

Printed at 6/3/2024 2:04:26 PM

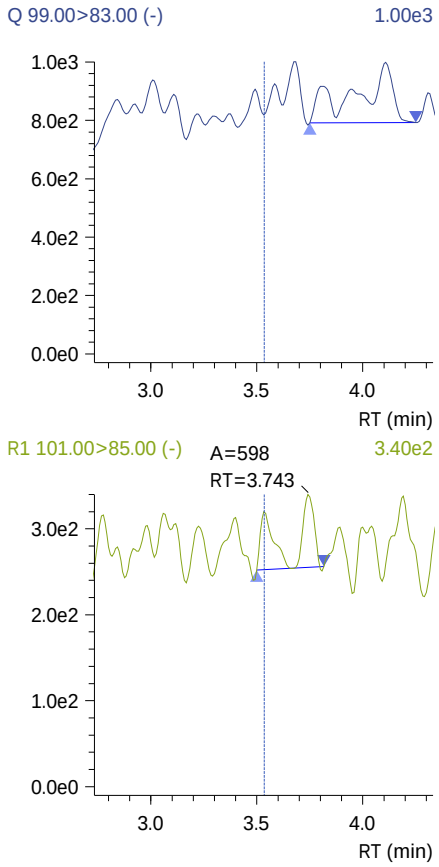
IB

Sample ID: IB
Date Acquired: 5/31/2024 2:19:12 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240531\20240531-026.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	ND(W/B)	----	----	377624	----	ng/mL	101.00 >85.00	0.00	23.30 -43.28
Sodium Perchlorate-18O4_IS	Auto	3.457	377624	377624	1.0000	ng/mL	----	----	

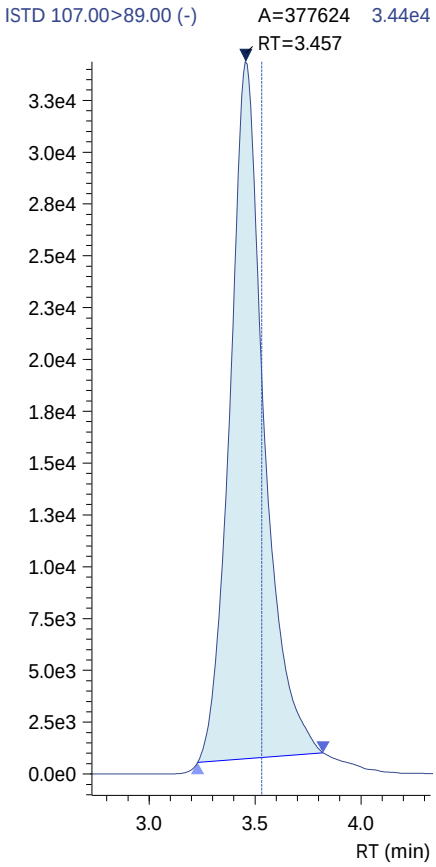
Perchlorate

Conc ----
R#1 0.00 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/3/2024 2:04:26 PM

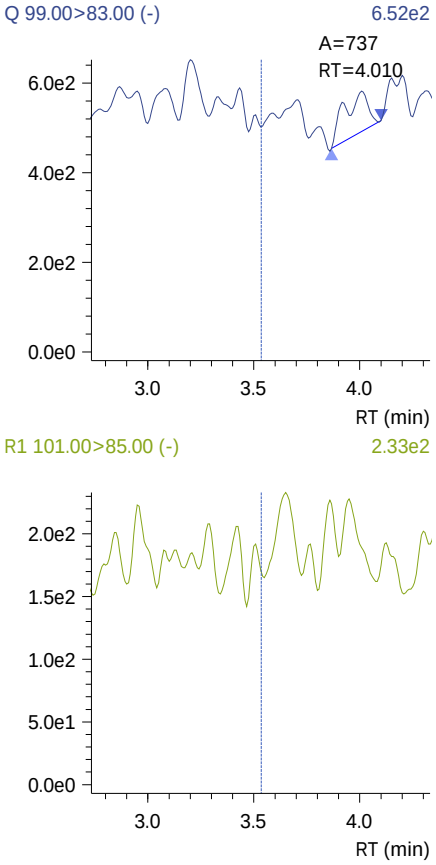
EQ2400268-01

Sample ID: EQ2400268-01
Date Acquired: 5/31/2024 2:35:50 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240531\20240531-029.lcd
Vial: 25 | 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	ND(W/B)	----	----	334256	----	ng/mL	101.00 >85.00	0.00	23.30 -43.28
Sodium Perchlorate-18O4_IS	Auto	3.456	334256	334256	1.0000	ng/mL	----	----	

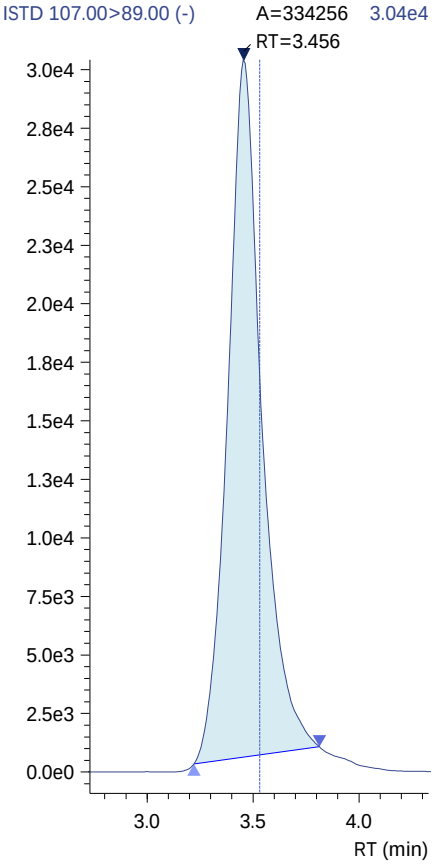
Perchlorate

Conc ----
R#1 0.00 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/3/2024 2:04:26 PM

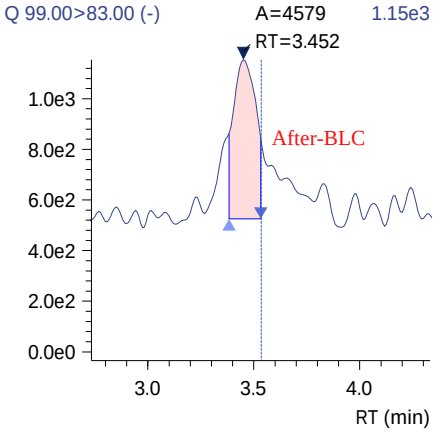
EQ2400268-02

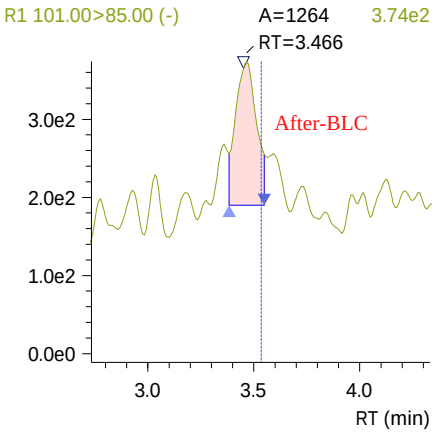
Sample ID: EQ2400268-02
Date Acquired: 5/31/2024 2:41:21 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240531\20240531-030.lcd
Vial: 26 | Inj. Volume: 10.0000uL | Tray: 2

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.452	4579	324942	0.1064	ng/mL	101.00 >85.00	27.60	23.30 -43.28
Sodium Perchlorate -18O4_IS	Auto	3.458	324942	324942	1.0000	ng/mL	----	----	

Perchlorate

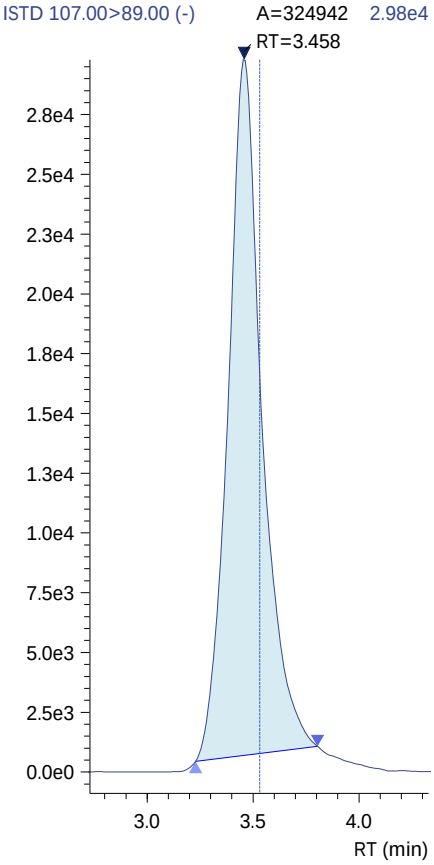
Conc 0.1064
R#1 27.60 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/3/2024 2:05:44 PM

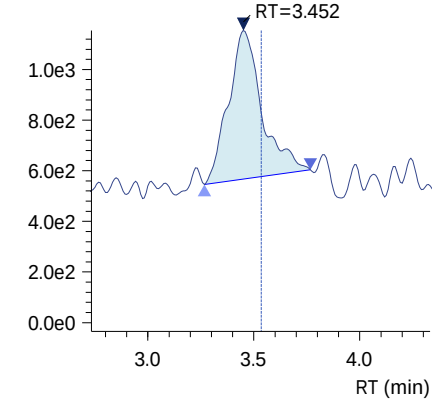
EQ2400268-02

Sample ID: EQ2400268-02
Date Acquired: 5/31/2024 2:41:21 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240531\20240531-030.lcd
Vial: 26 | Inj. Volume: 10.0000uL | Tray: 2

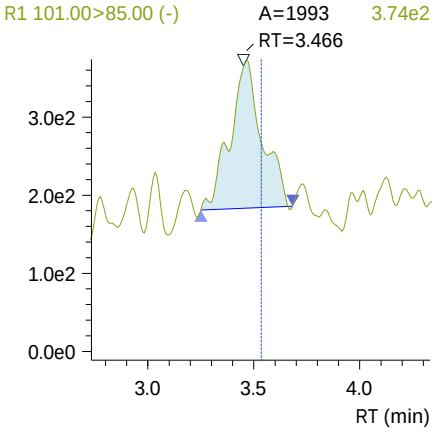
Perchlorate

Conc 0.1504
R#1 30.80 (34.10)

Q 99.00>83.00 (-) A=6472 1.15e3



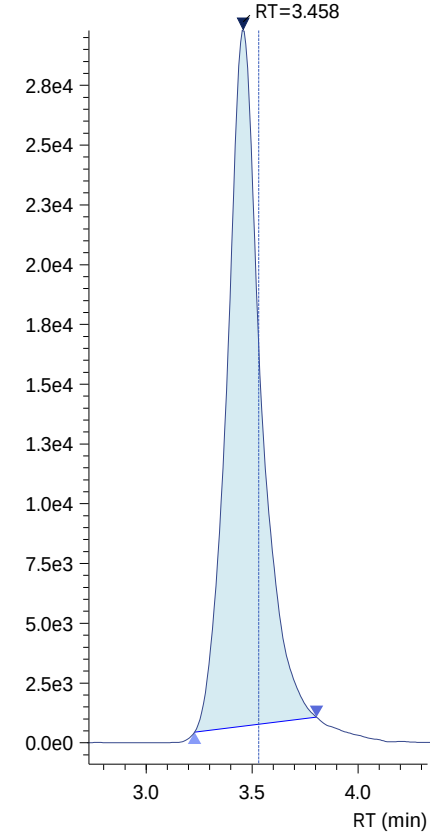
R1 101.00>85.00 (-) A=1993 3.74e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=324942 2.98e4



Insight Report

Printed at 6/3/2024 2:04:26 PM

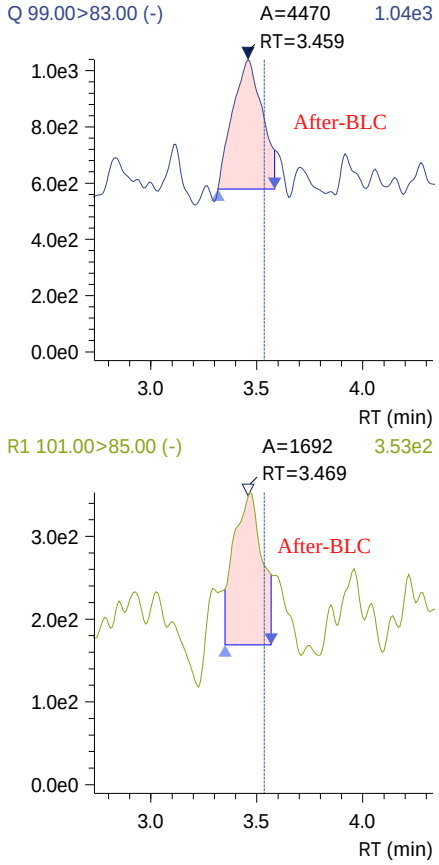
EQ2400268-03

Sample ID: EQ2400268-03
Date Acquired: 5/31/2024 2:46:53 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240531\20240531-031.lcd
Vial: 27 | 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	M	3.459	4470	321396	0.1050	ng/mL	101.00 >85.00	37.85	23.30 -43.28
Sodium Perchlorate -18O4_IS	Auto	3.456	321396	321396	1.0000	ng/mL	----	----	

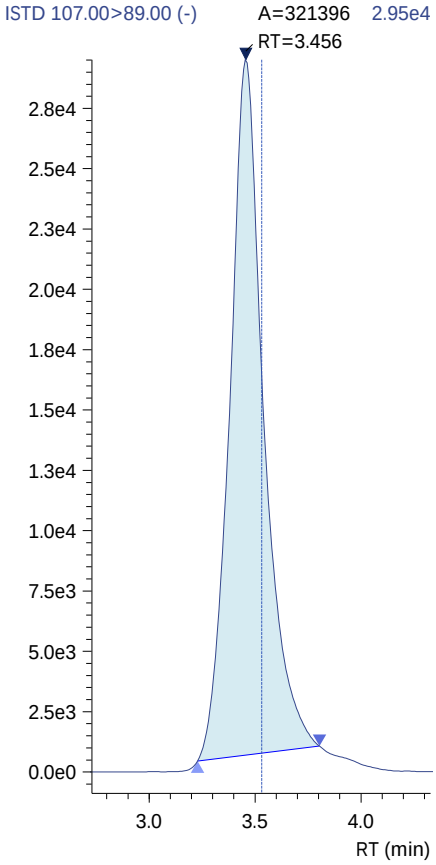
Perchlorate

Conc 0.1050
R#1 37.85 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

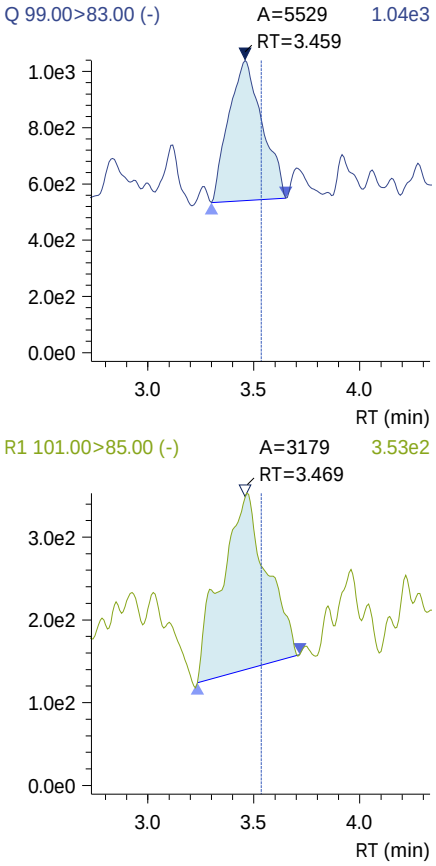
Printed at 6/3/2024 2:05:44 PM

EQ2400268-03

Sample ID: EQ2400268-03
Date Acquired: 5/31/2024 2:46:53 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240531\20240531-031.lcd
Vial: 27 | Inj. Volume: 10.0000uL | Tray: 2

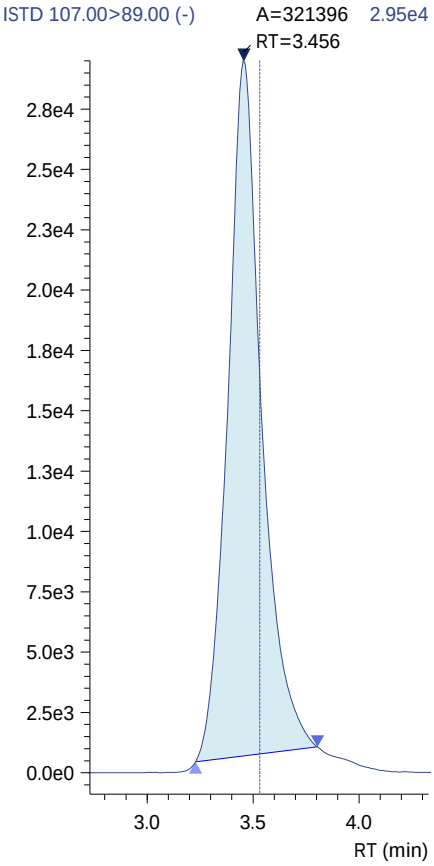
Perchlorate

Conc 0.1299
R#1 57.50 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/3/2024 2:04:26 PM

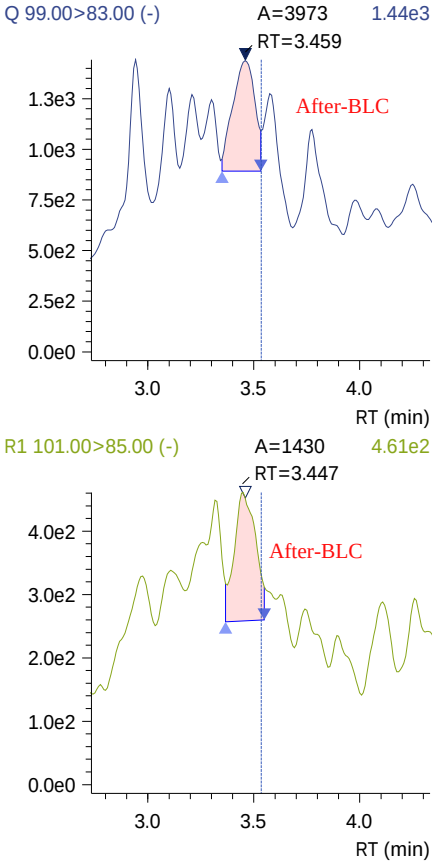
EQ2400268-04

Sample ID: EQ2400268-04
Date Acquired: 5/31/2024 2:52:26 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240531\20240531-032.lcd
Vial: 28 | 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	M	3.459	3973	328459	0.0913	ng/mL	101.00 >85.00	35.99	23.30 -43.28
Sodium Perchlorate -18O4_IS	Auto	3.458	328459	328459	1.0000	ng/mL	----	----	

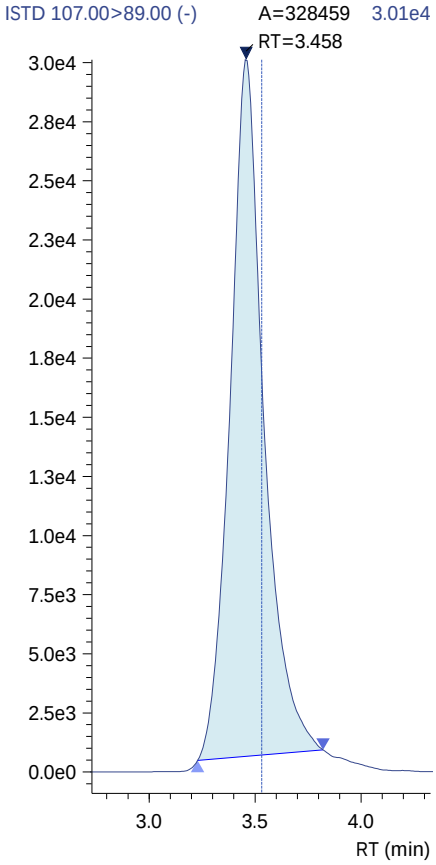
Perchlorate

Conc 0.0913
R#1 35.99 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

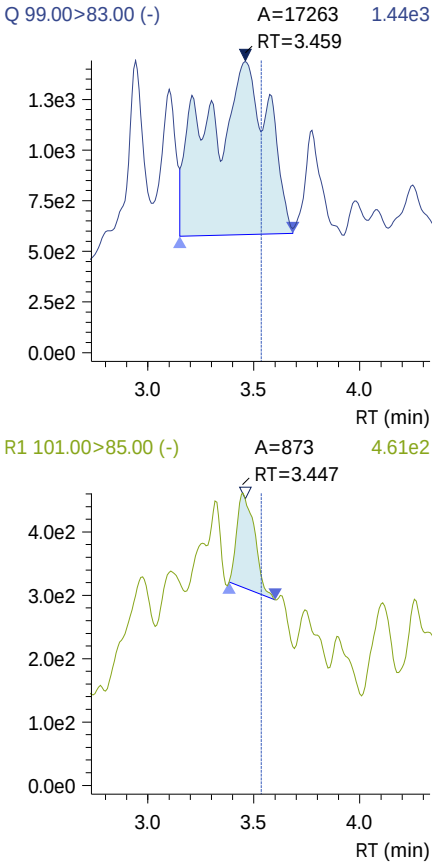
Printed at 6/3/2024 2:05:44 PM

EQ2400268-04

Sample ID: EQ2400268-04
Date Acquired: 5/31/2024 2:52:26 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240531\20240531-032.lcd
Vial: 28 | Inj. Volume: 10.0000uL | Tray: 2

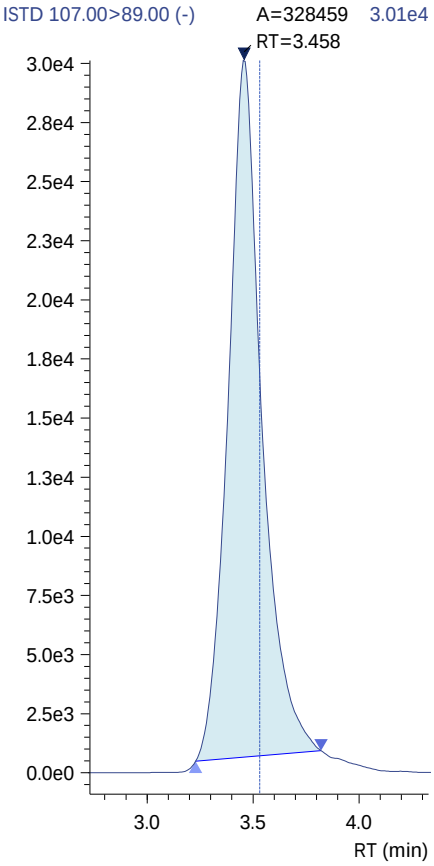
Perchlorate

Conc 0.3968
R#1 5.06 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/3/2024 2:04:26 PM

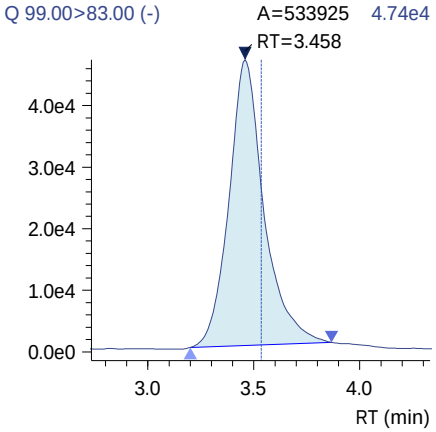
CCV

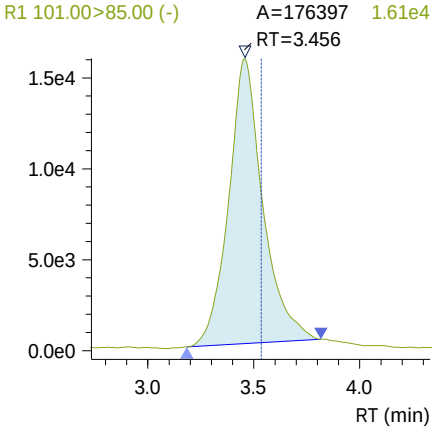
Sample ID: CCV
Date Acquired: 5/31/2024 3:20:09 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240531\20240531-037.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.458	533925	356549	11.3052	ng/mL	101.00 >85.00	33.04	23.30 -43.28
Sodium Perchlorate-18O4_IS	M	3.455	356549	356549	1.0000	ng/mL	----	----	

Perchlorate

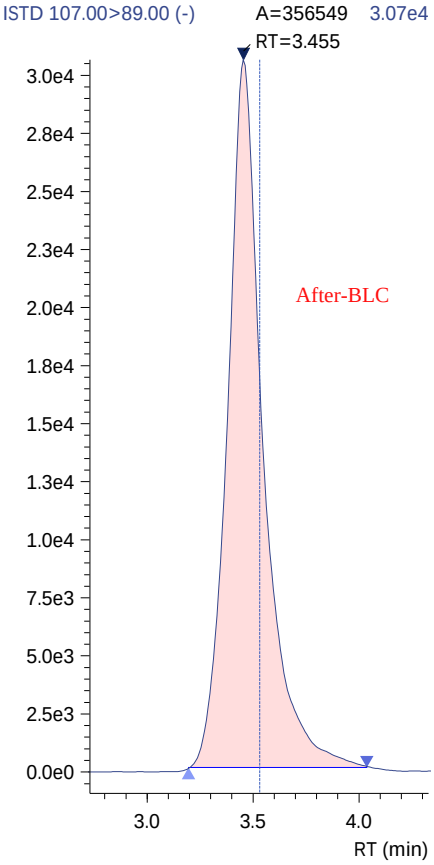
Conc 11.3052
R#1 33.04 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

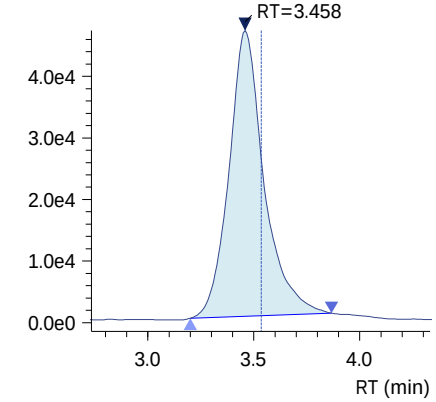
CCV

Sample ID: CCV
Date Acquired: 5/31/2024 3:20:09 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240531\20240531-037.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

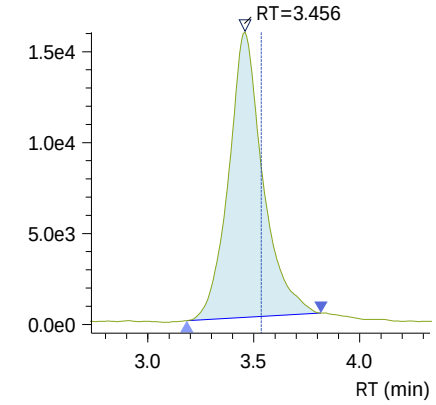
Perchlorate

Conc 12.1119
R#1 33.04 (34.10)

Q 99.00>83.00 (-) A=533925 4.74e4



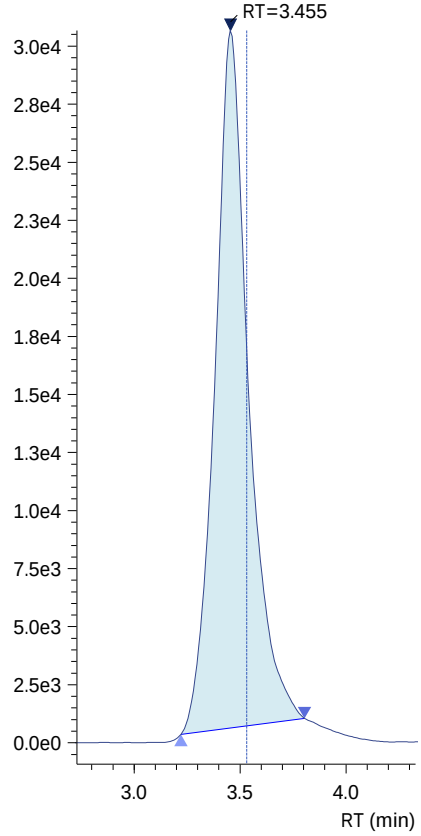
R1 101.00>85.00 (-) A=176397 1.61e4



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=332801 3.07e4



Insight Report

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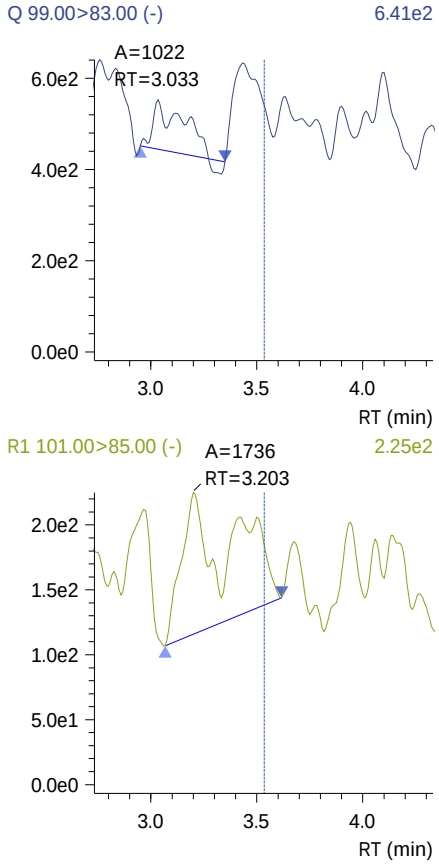
IB

Sample ID: IB
Date Acquired: 5/31/2024 3:25:42 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240531\20240531-038.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	ND(W/B)	----	----	364565	----	ng/mL	101.00 >85.00	0.00	23.30 -43.28
Sodium Perchlorate-18O4_IS	Auto	3.457	364565	364565	1.0000	ng/mL	----	----	

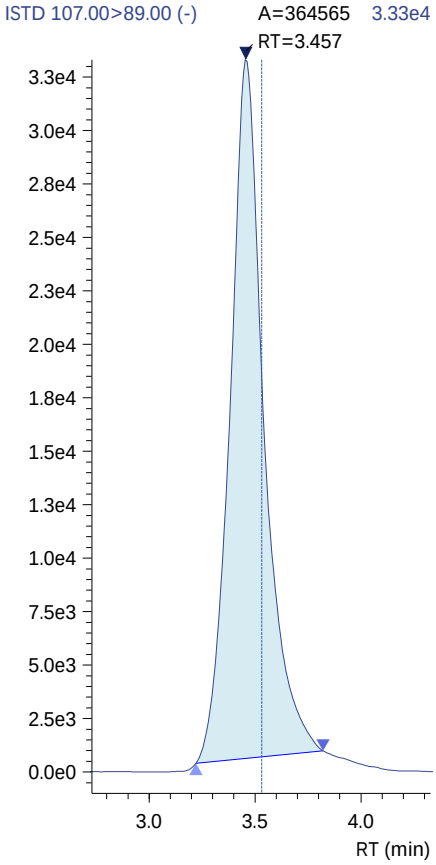
Perchlorate

Conc ----
R#1 0.00 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

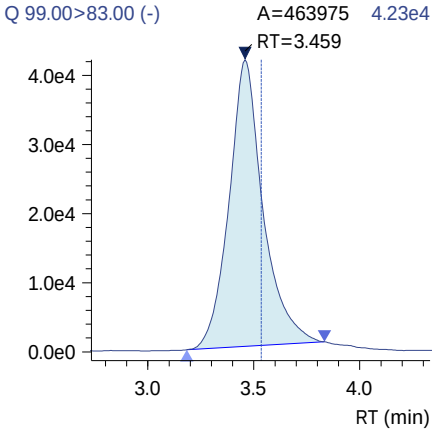
CCV

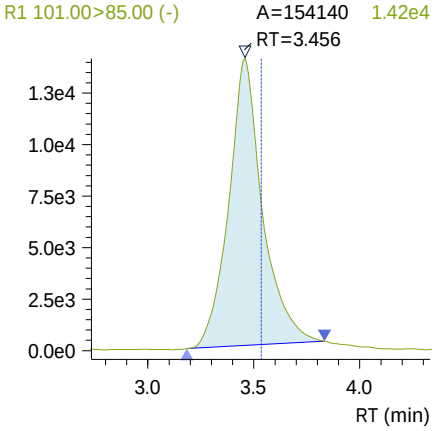
Sample ID: CCV
Date Acquired: 5/31/2024 4:26:36 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240531\20240531-049.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.459	463975	315667	11.0964	ng/mL	101.00 >85.00	33.22	23.30 -43.28
Sodium Perchlorate -18O4_IS	M	3.456	315667	315667	1.0000	ng/mL	----	----	

Perchlorate

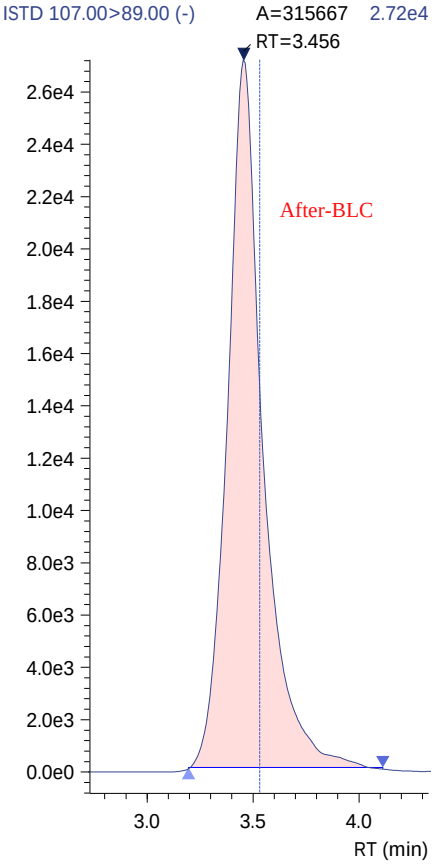
Conc 11.0964
R#1 33.22 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/3/2024 2:05:44 PM

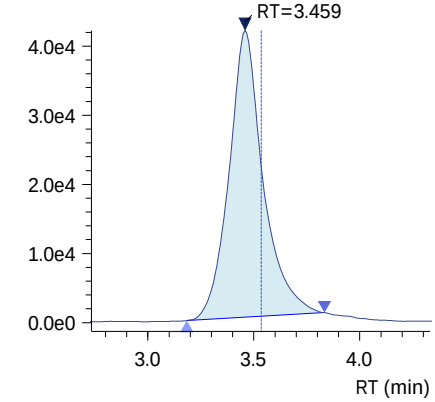
CCV

Sample ID: CCV
Date Acquired: 5/31/2024 4:26:36 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240531\20240531-049.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

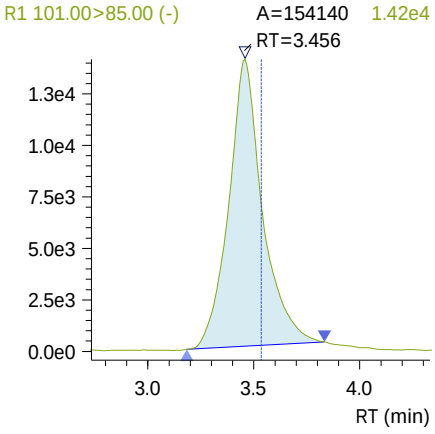
Perchlorate

Conc 11.8107
R#1 33.22 (34.10)

Q 99.00>83.00 (-) A=463975 4.23e4



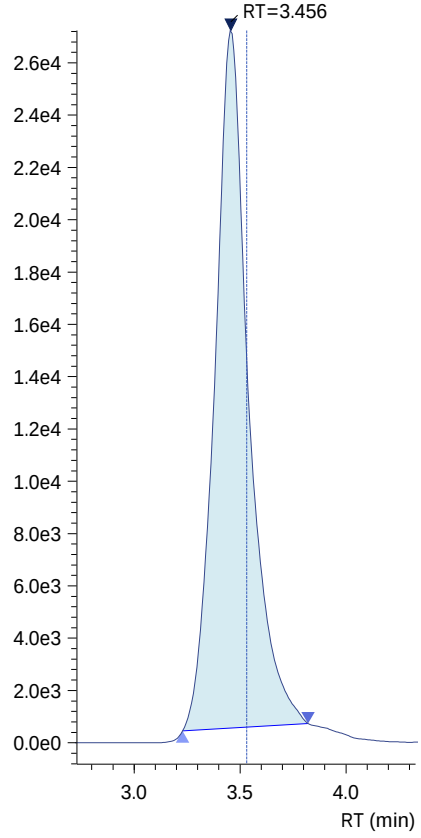
R1 101.00>85.00 (-) A=154140 1.42e4



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=296575 2.72e4



Insight Report

Printed at 6/3/2024 2:04:26 PM

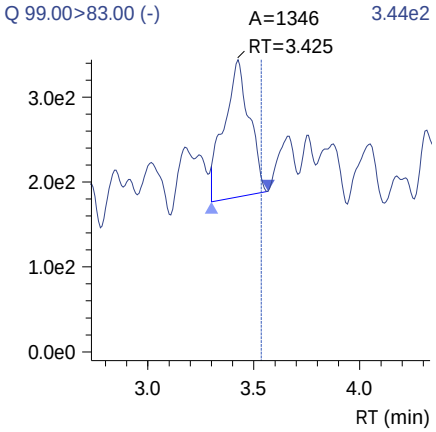
IB

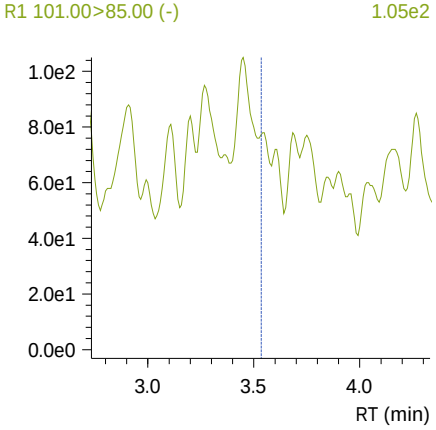
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Date Acquired: 5/31/2024 4:32:06 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240531\20240531-050.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	NI	----	----	342445	----	ng/mL	101.00 >85.00	0.00	23.30 -43.28
Sodium Perchlorate -18O4_IS	M	3.457	342445	342445	1.0000	ng/mL	----	----	

Perchlorate

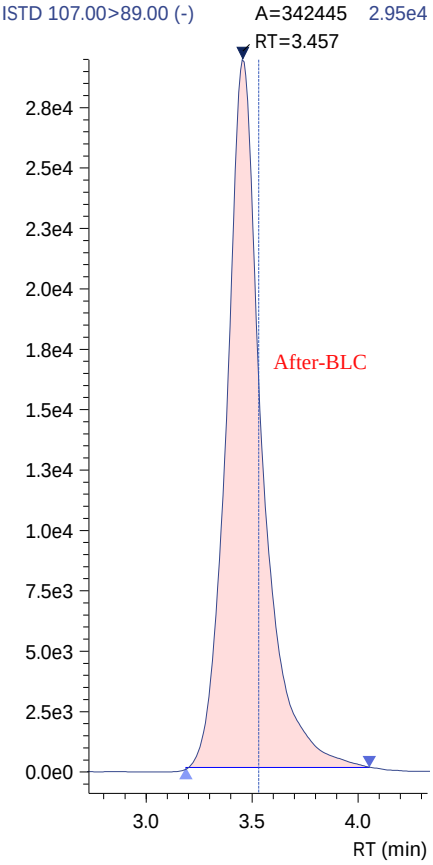
Conc ----
R#1 0.00 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

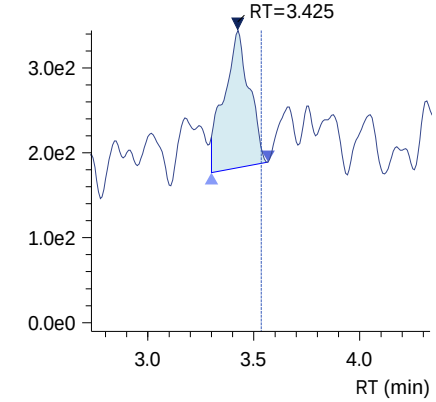
IB

Sample ID: IB
Date Acquired: 5/31/2024 4:32:06 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240531\20240531-050.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

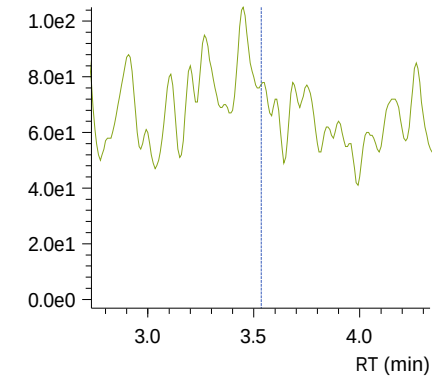
Perchlorate

Conc 0.0318
R#1 0.00 (34.10)

Q 99.00>83.00 (-) A=1346 3.44e2



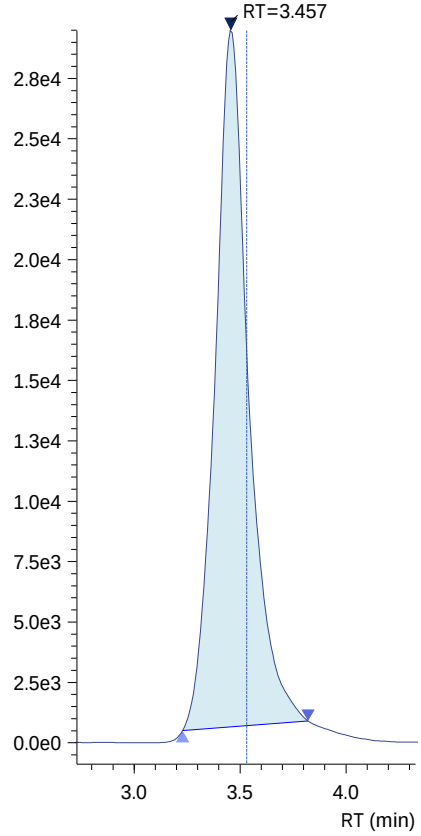
R1 101.00>85.00 (-) 1.05e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=319519 2.95e4



Insight Report

Printed at 6/3/2024 2:04:26 PM

E2400566-08

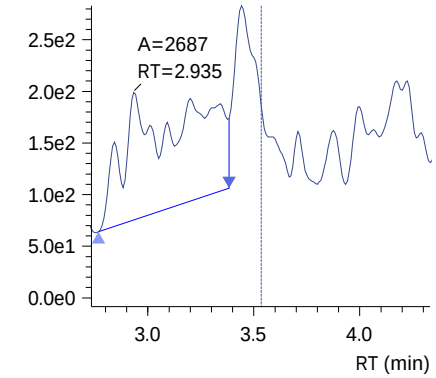
Sample ID: E2400566-08
Date Acquired: 5/31/2024 4:43:15 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240531\20240531-052.lcd
Vial: 44 | Inj. Volume: 10.0000uL | Tray: 2

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	ND(W/B)	----	----	274203	----	ng/mL	101.00 >85.00	0.00	23.30 -43.28
Sodium Perchlorate-18O4_IS	Auto	3.453	274203	274203	1.0000	ng/mL	----	----	

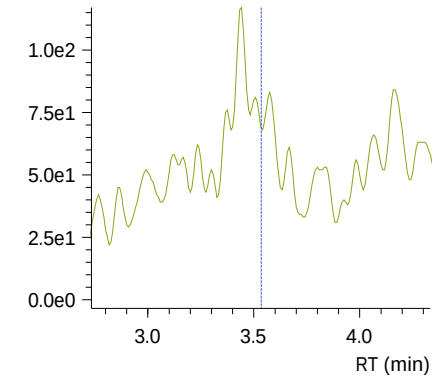
Perchlorate

Conc ----
R#1 0.00 (34.10)

Q 99.00>83.00 (-) 2.83e2



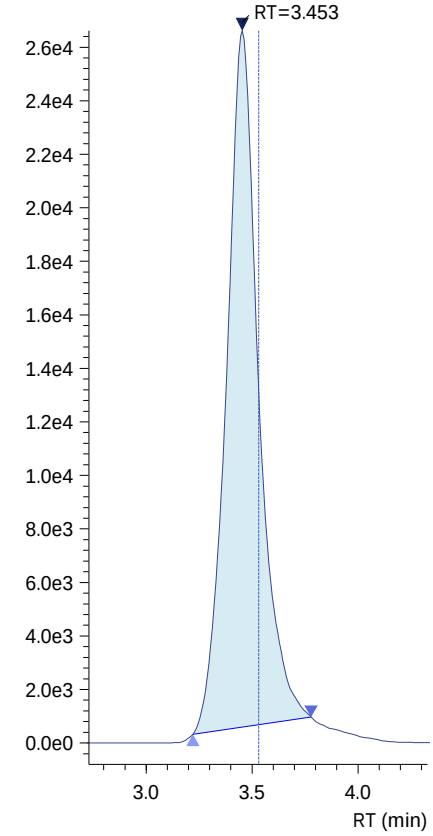
R1 101.00>85.00 (-) 1.17e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=274203 2.66e4



Insight Report

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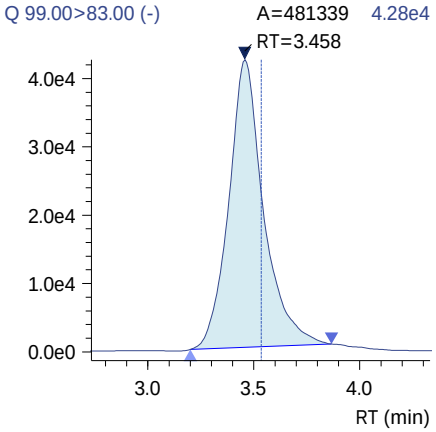
E2400566-06 10X

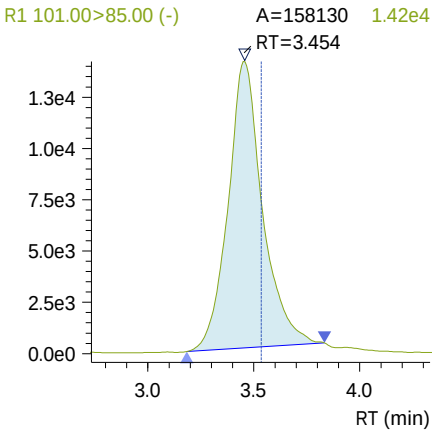
Sample ID: E2400566-06 10X
Date Acquired: 5/31/2024 4:59:49 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240531\20240531-055.lcd
Vial: 42 | Inj. Volume: 10.0000uL | Tray: 2

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.458	481339	300140	12.1072	ng/mL	101.00 >85.00	32.85	23.30 -43.28
Sodium Perchlorate-18O4_IS	Auto	3.453	300140	300140	1.0000	ng/mL	----	----	

Perchlorate

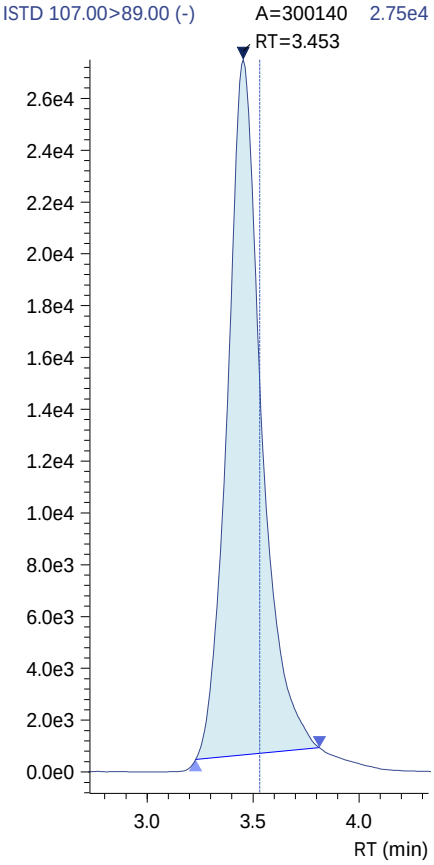
Conc 12.1072
R#1 32.85 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/3/2024 2:04:26 PM

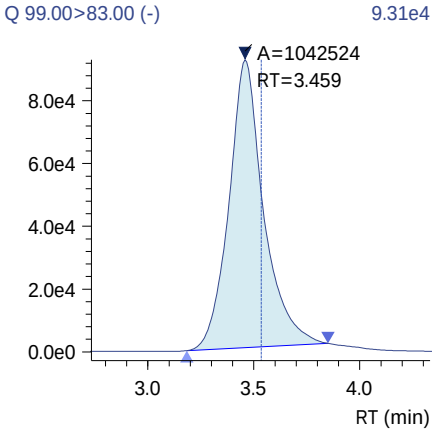
E2400566-07 10X

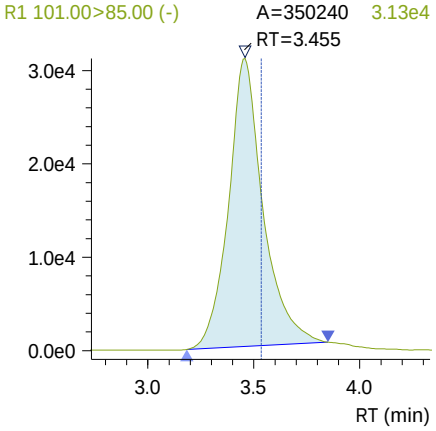
Sample ID: E2400566-07 10X
Date Acquired: 5/31/2024 5:05:24 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240531\20240531-056.lcd
Vial: 43 | Inj. Volume: 10.0000uL | Tray: 2

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.459	10425	293693	26.7	ng/mL	101.00	33.60	23.30
			24		984		>85.00		-43.28
Sodium Perchlorate -18O4_IS	Auto	3.455	293693	293693	1.0000	ng/mL	----	----	

Perchlorate

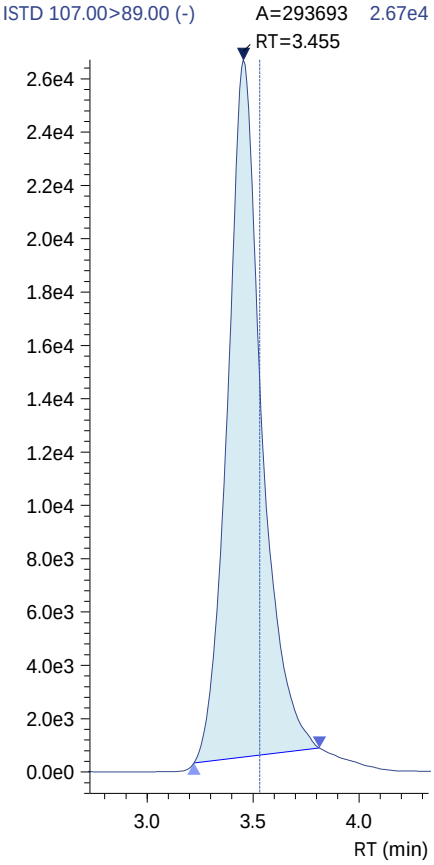
Conc 26.7984
R#1 33.60 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/3/2024 2:04:26 PM

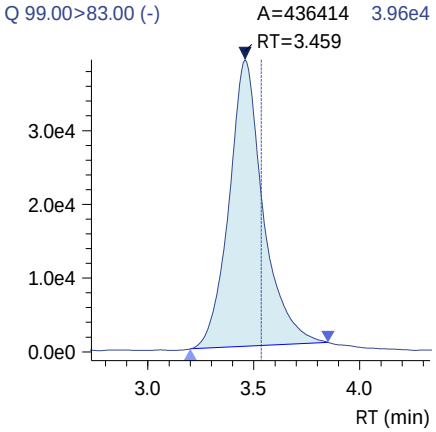
CCV

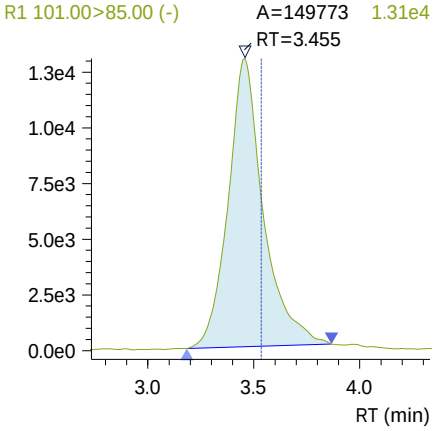
Sample ID: CCV
Date Acquired: 5/31/2024 5:16:31 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240531\20240531-058.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.459	436414	298706	11.0 299	ng/mL	101.00 >85.00	34.32	23.30 -43.28
Sodium Perchlorate -18O4_IS	M	3.457	298706	298706	1.0000	ng/mL	----	----	

Perchlorate

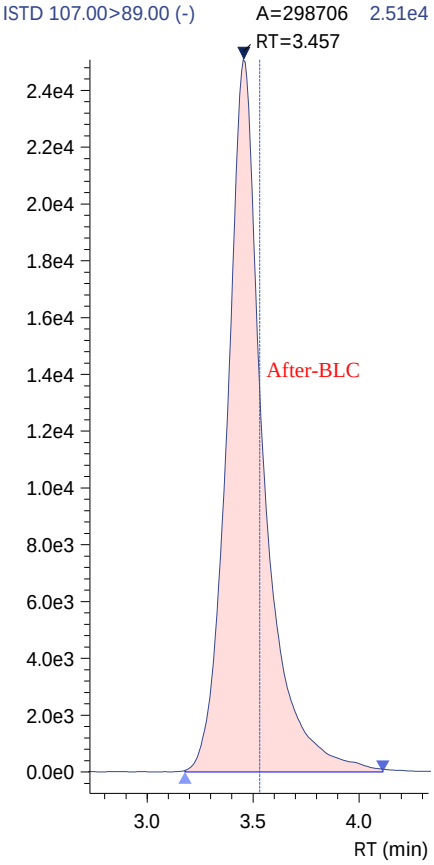
Conc 11.0299
R#1 34.32 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

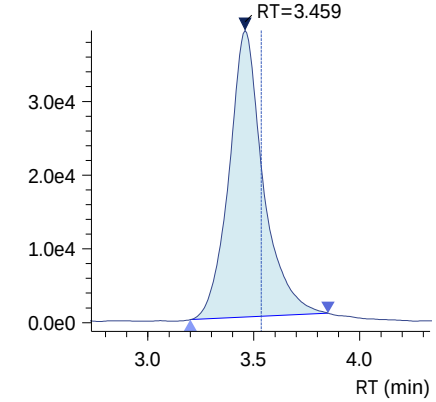
CCV

Sample ID: CCV
Date Acquired: 5/31/2024 5:16:31 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240531\20240531-058.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

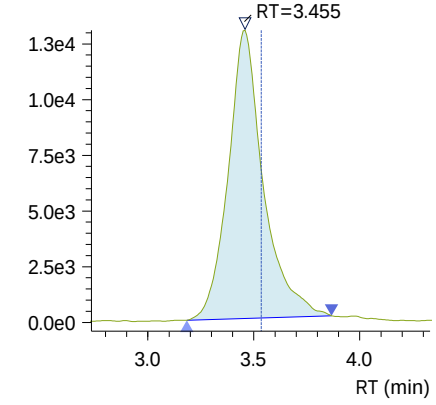
Perchlorate

Conc 12.3175
R#1 34.32 (34.10)

Q 99.00>83.00 (-) A=436414 3.96e4



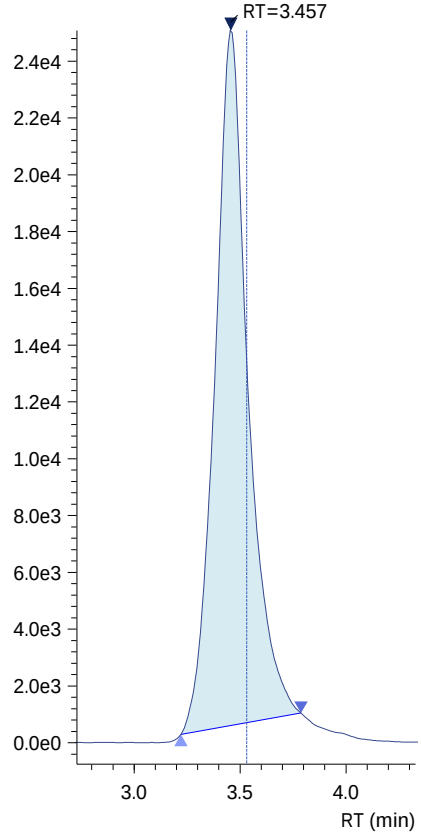
R1 101.00>85.00 (-) A=149773 1.31e4



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=267482 2.51e4



Insight Report

Printed at 6/3/2024 2:04:26 PM

IB

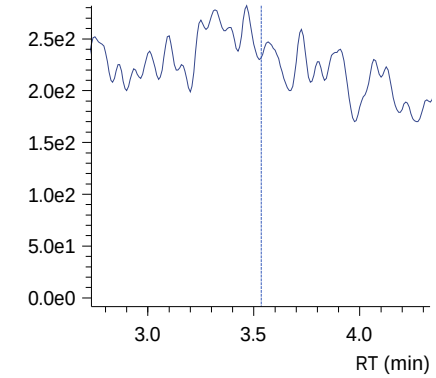
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Date Acquired: 5/31/2024 5:22:04 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240531\20240531-059.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	ND(W/B)	----	----	299832	----	ng/mL	101.00 >85.00	0.00	23.30 -43.28
Sodium Perchlorate-18O4_IS	Auto	3.455	299832	299832	1.0000	ng/mL	----	----	

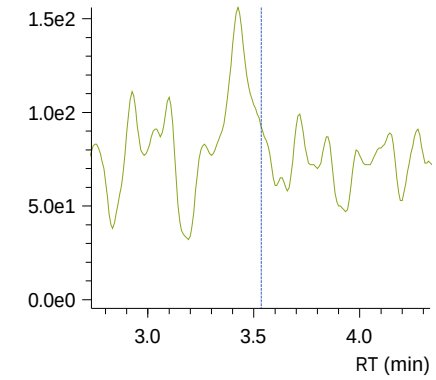
Perchlorate

Conc ----
R#1 0.00 (34.10)

Q 99.00>83.00 (-) 2.82e2



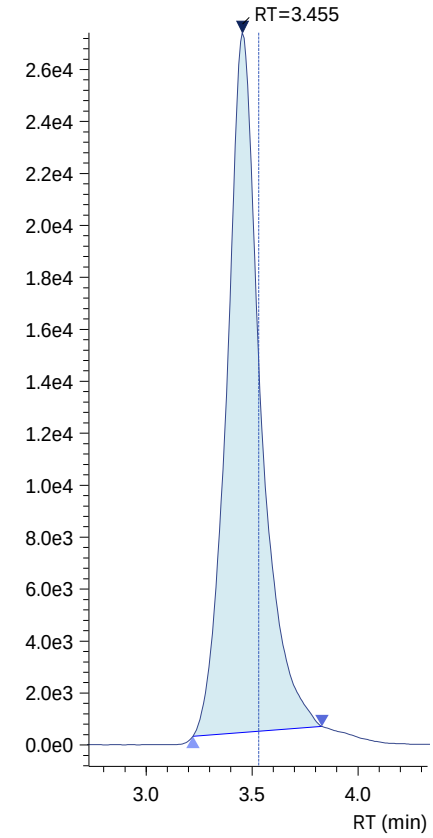
R1 101.00>85.00 (-) 1.56e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=299832 2.74e4



Insight Report

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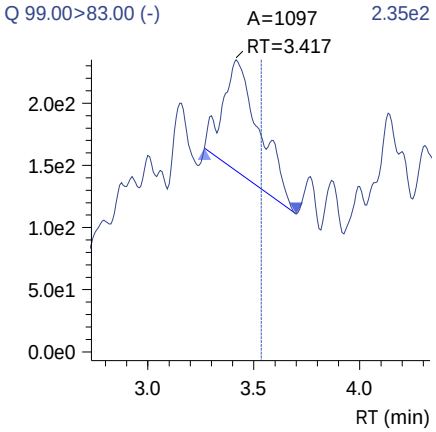
E2400566-02 2X

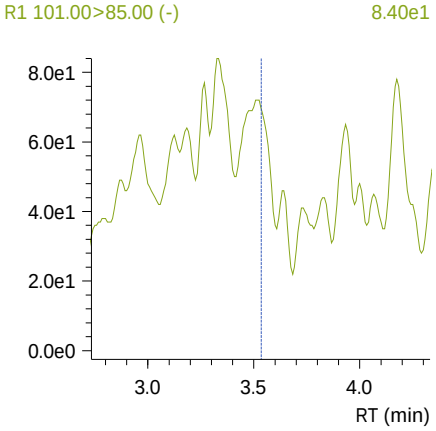
Sample ID: E2400566-02 2X
Date Acquired: 5/31/2024 5:44:18 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240531\20240531-063.lcd
Vial: 51 | Inj. Volume: 10.0000uL | Tray: 2

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	NI	----	----	244049	----	ng/mL	101.00 >85.00	0.00	23.30 -43.28
Sodium Perchlorate -18O4_IS	Auto	3.455	244049	244049	1.0000	ng/mL	----	----	

Perchlorate

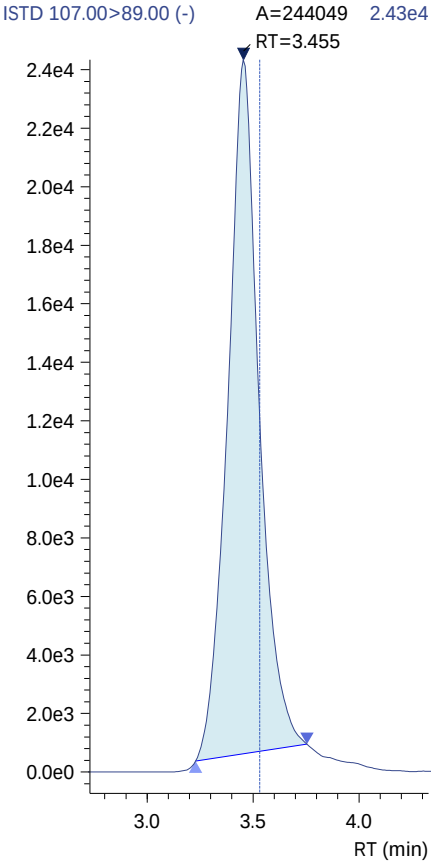
Conc ----
R#1 0.00 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/3/2024 2:04:26 PM

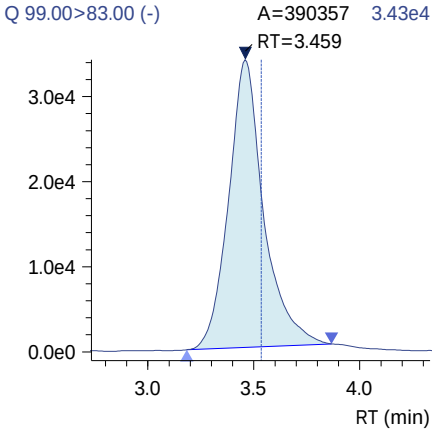
CCV

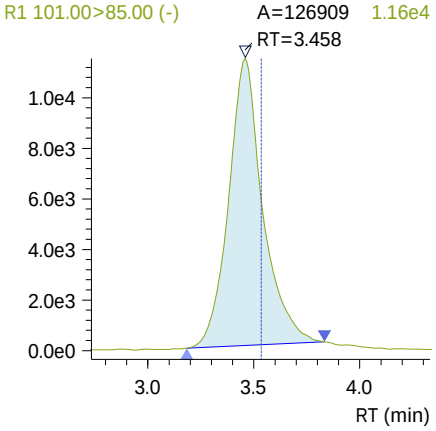
Sample ID: CCV
Date Acquired: 5/31/2024 6:00:55 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240531\20240531-066.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.459	390357	268553	10.9736	ng/mL	101.00 >85.00	32.51	23.30 -43.28
Sodium Perchlorate -18O4_IS	M	3.456	268553	268553	1.0000	ng/mL	----	----	

Perchlorate

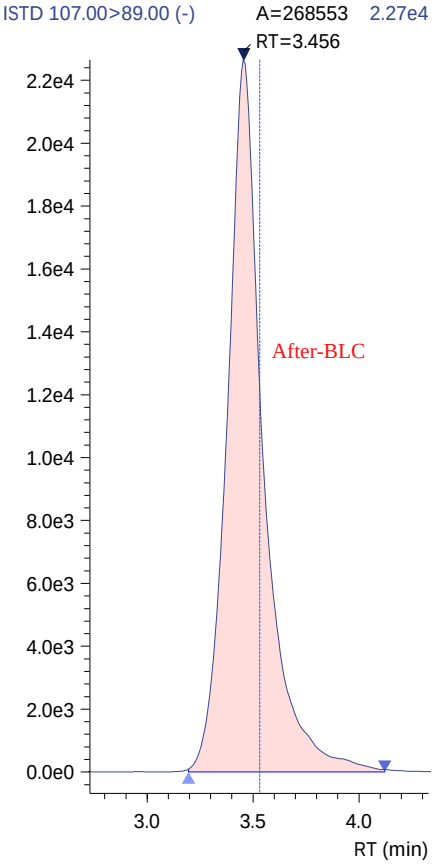
Conc 10.9736
R#1 32.51 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/3/2024 2:05:44 PM

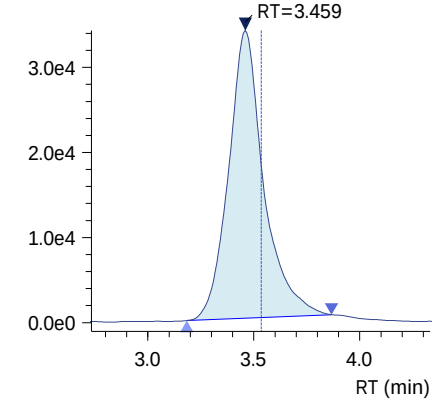
CCV

Sample ID: CCV
Date Acquired: 5/31/2024 6:00:55 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240531\20240531-066.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

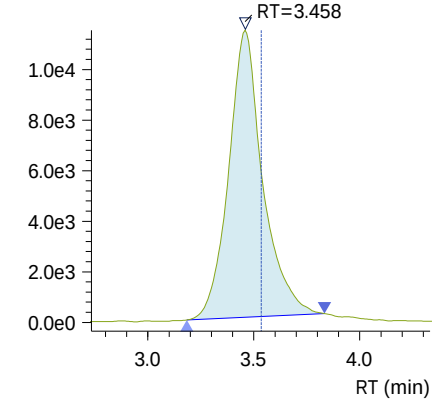
Perchlorate

Conc 11.9567
R#1 32.51 (34.10)

Q 99.00>83.00 (-) A=390357 3.43e4



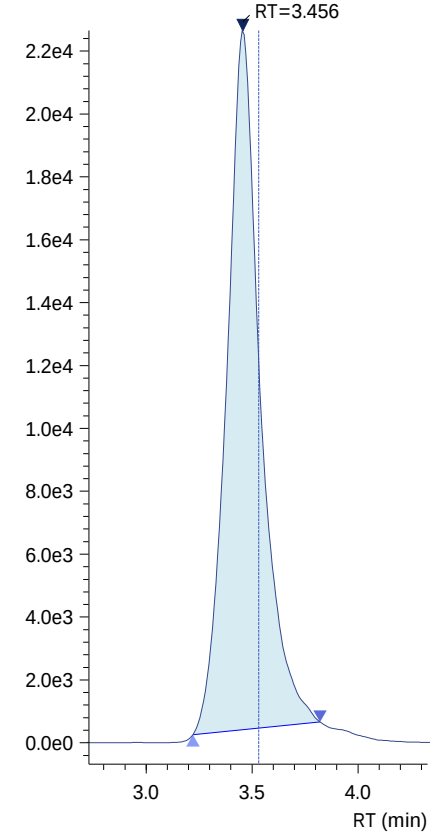
R1 101.00>85.00 (-) A=126909 1.16e4



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=246472 2.27e4



Insight Report

IB

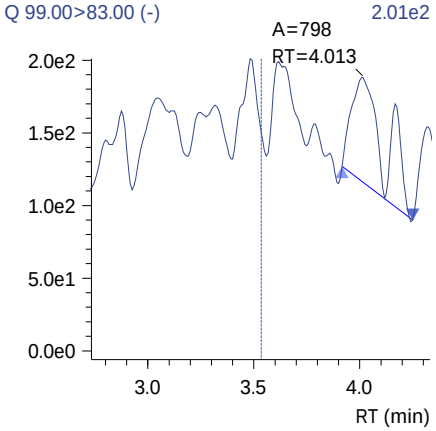
Sample ID: IB
Date Acquired: 5/31/2024 6:06:29 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240531\20240531-067.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	ND(W/B)	----	----	----	----	ng/mL	101.00 >85.00	0.00	23.30 -43.28
Sodium Perchlorate-18O4_IS	ND(W/B)	----	----	----	----	ng/mL	----	----	

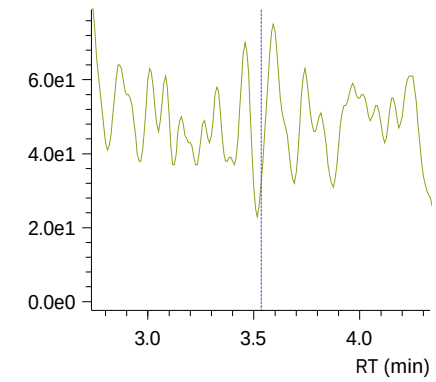
Perchlorate

Conc ----
R#1 0.00 (34.10)

Q 99.00>83.00 (-) 2.01e2



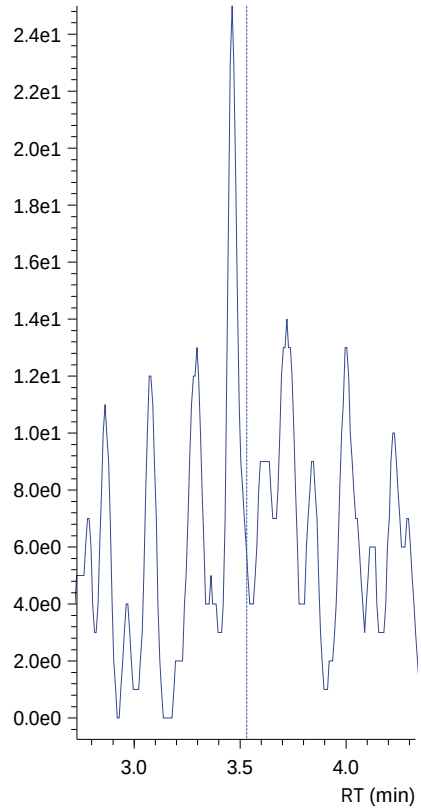
R1 101.00>85.00 (-) 7.90e1



Sodium Perchlorate-18O4_IS

Conc ----

ISTD 107.00>89.00 (-) 2.50e1



Insight Report

Printed at 6/4/2024 10:00:48 AM

Method File: I:\LCMS01\DATA\20240603\20240603.lcm
Project File: I:\LCMS01\DATA\20240603\20240603.damlp

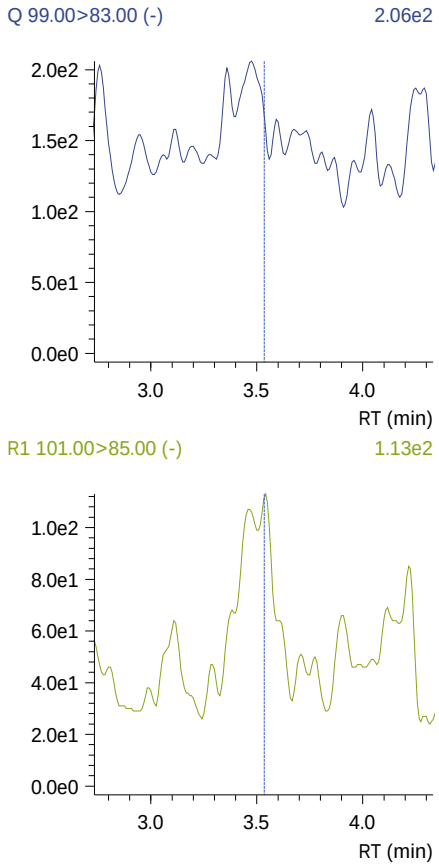
IB

Sample ID: IB
Date Acquired: 6/3/2024 2:12:23 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240603\20240603-002.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	ND(W/B)	----	----	242825	----	ng/mL	101.00 >85.00	0.00	23.84 -44.27
Sodium Perchlorate-18O4_IS	M	3.469	242825	242825	1.0000	ng/mL	----	----	

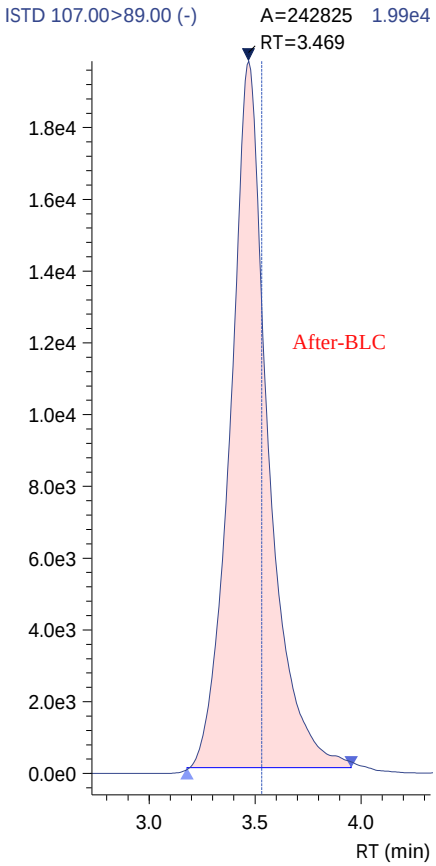
Perchlorate

Conc ----
R#1 0.00 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Method File: I:\LCMS01\DATA\20240603\20240603.lcm
Project File: I:\LCMS01\DATA\20240603\20240603.damlp

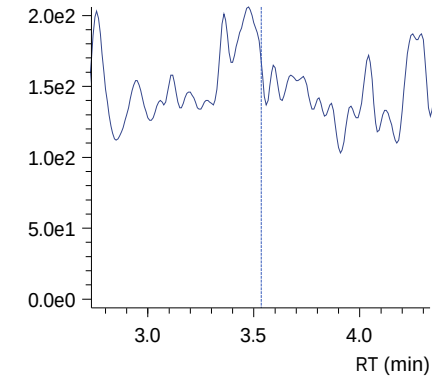
IB

Sample ID: IB
Date Acquired: 6/3/2024 2:12:23 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240603\20240603-002.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

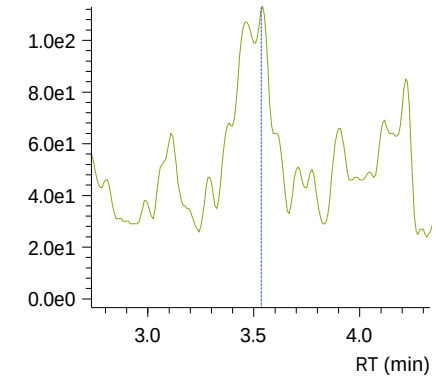
Perchlorate

Conc ----
R#1 0.00 (34.10)

Q 99.00>83.00 (-) 2.06e2



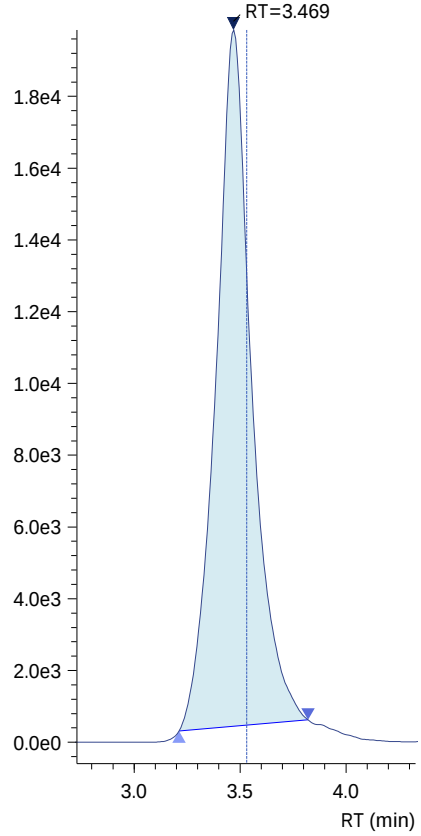
R1 101.00>85.00 (-) 1.13e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=229280 1.99e4
RT=3.469



Insight Report

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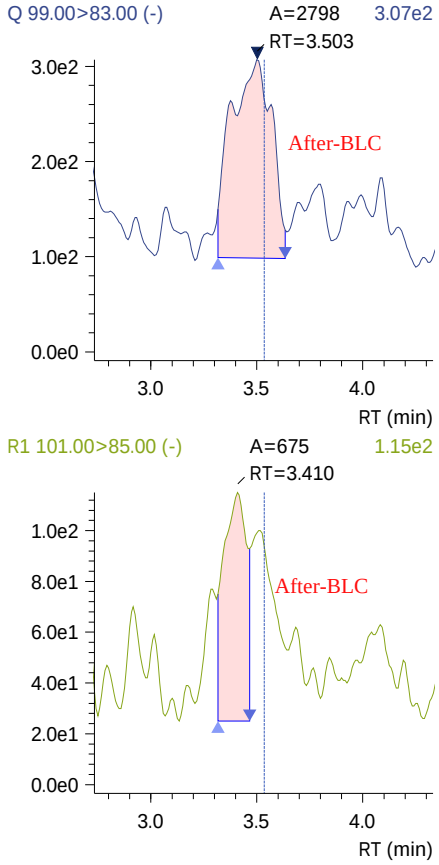
LODV

Sample ID: LODV
Date Acquired: 6/3/2024 2:17:55 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240603\20240603-003.lcd
Vial: 12 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.503	2798	252147	0.0838	ng/mL	101.00 >85.00	24.12	23.84 -44.27
Sodium Perchlorate-18O4_IS	M	3.468	2521 47	252147	1.0000	ng/mL	----	----	

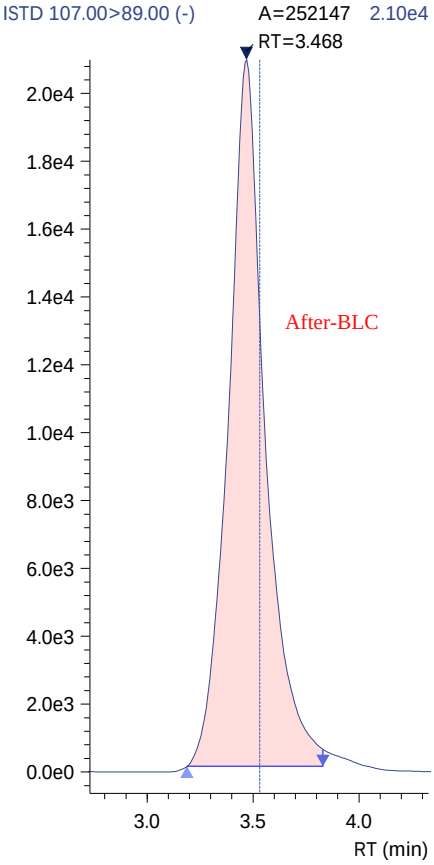
Perchlorate

Conc 0.0838
R#1 24.12 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

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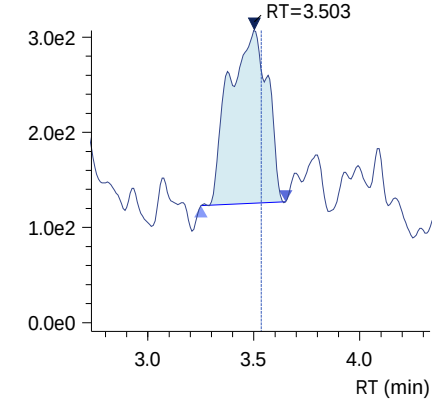
LODV

Sample ID: LODV
Date Acquired: 6/3/2024 2:17:55 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240603\20240603-003.lcd
Vial: 12 | Inj. Volume: 10.0000uL | Tray: 1

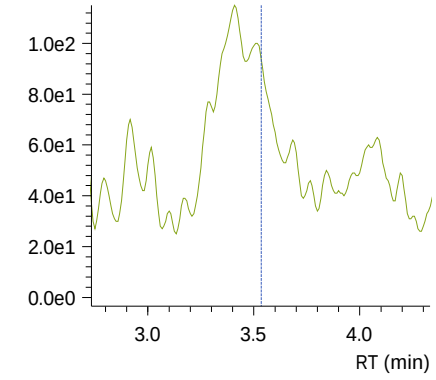
Perchlorate

Conc 0.0734
R#1 0.00 (34.10)

Q 99.00>83.00 (-) A=2305 3.07e2 RT=3.503



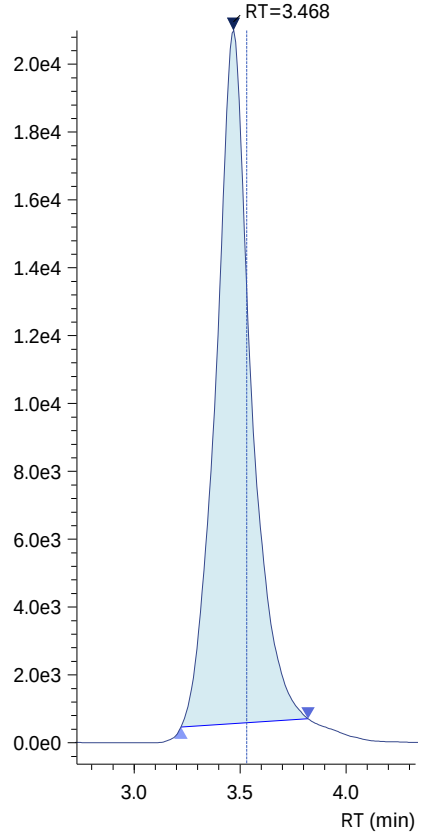
R1 101.00>85.00 (-) 1.15e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=237006 2.10e4 RT=3.468



Insight Report

Printed at 6/4/2024 10:00:48 AM

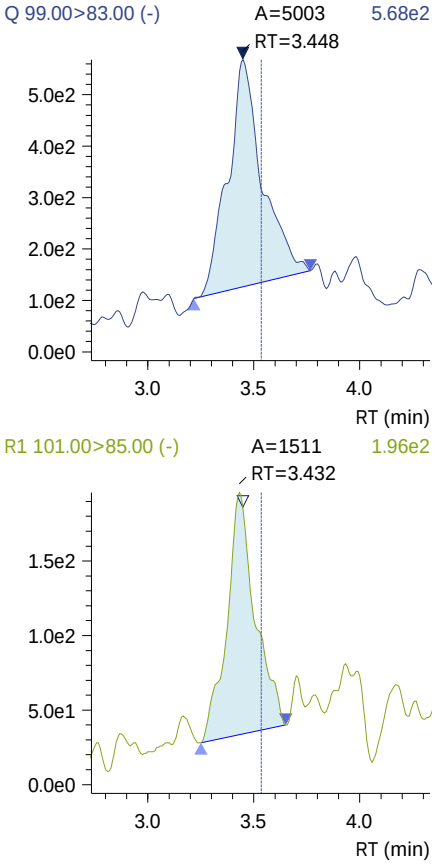
ICS

Sample ID: ICS
Date Acquired: 6/3/2024 2:23:26 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240603\20240603-004.lcd
Vial: 15 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.448	5003	248255	0.1521	ng/mL	101.00 >85.00	30.20	23.84 -44.27
Sodium Perchlorate-18O4_IS	Auto	3.469	248255	248255	1.0000	ng/mL	----	----	

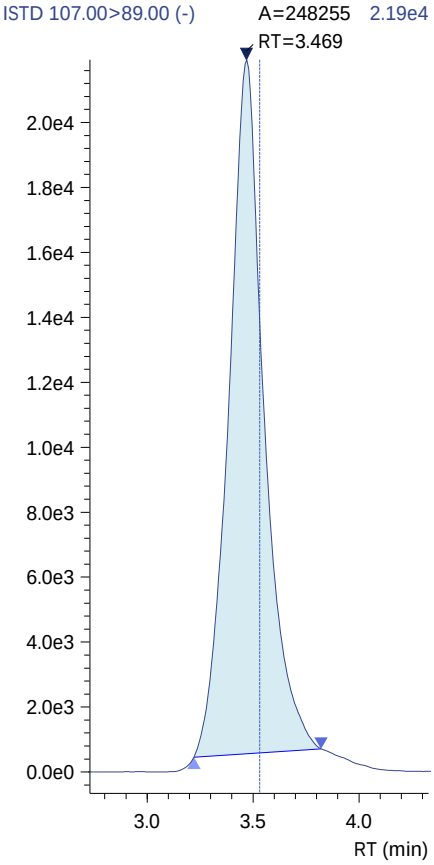
Perchlorate

Conc 0.1521
R#1 30.20 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/4/2024 10:00:48 AM

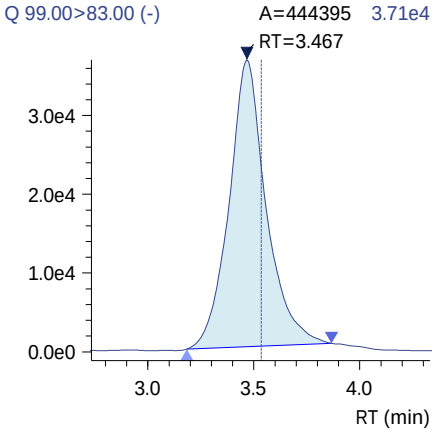
CCV

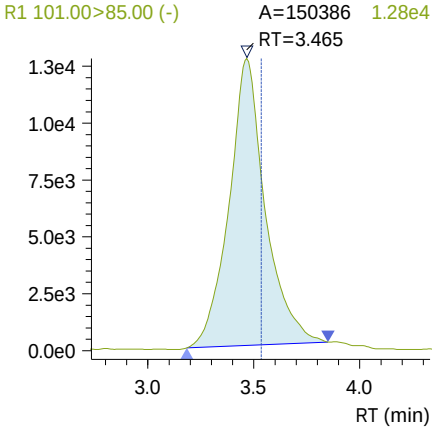
Sample ID: CCV
Date Acquired: 6/3/2024 2:28:58 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240603\20240603-005.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.467	444395	306117	10.9597	ng/mL	101.00 >85.00	33.84	23.84 -44.27
Sodium Perchlorate-18O4_IS	M	3.464	306117	306117	1.0000	ng/mL	----	----	

Perchlorate

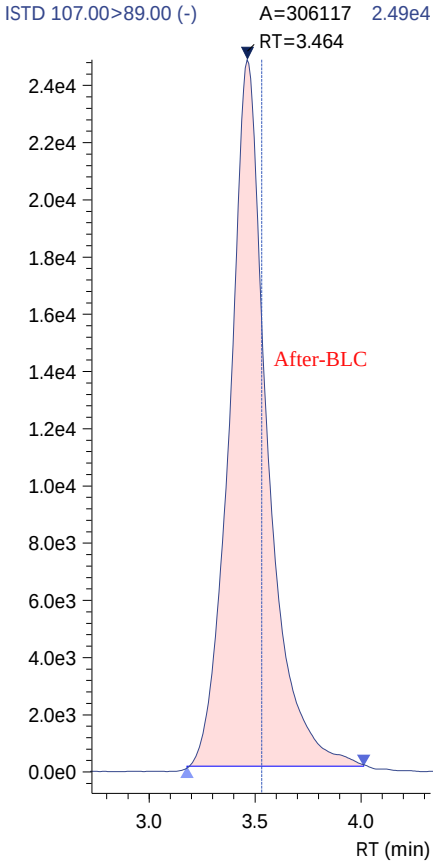
Conc 10.9597
R#1 33.84 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/4/2024 10:01:32 AM

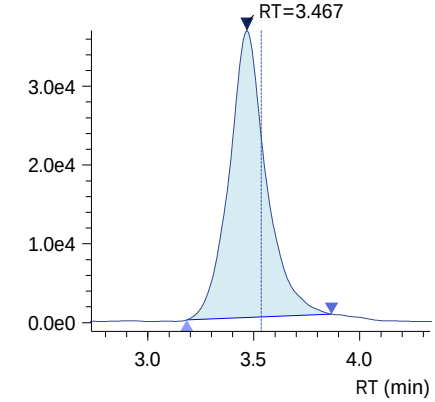
CCV

Sample ID: CCV
Date Acquired: 6/3/2024 2:28:58 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240603\20240603-005.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

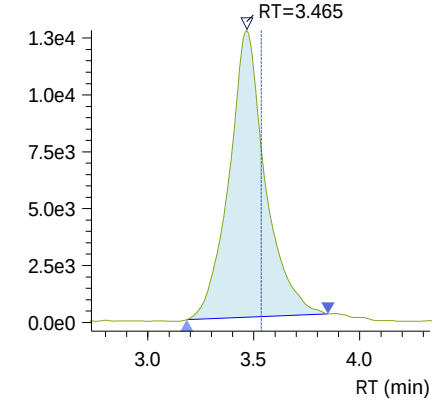
Perchlorate

Conc 11.6489
R#1 33.84 (34.10)

Q 99.00>83.00 (-) A=444395 3.71e4



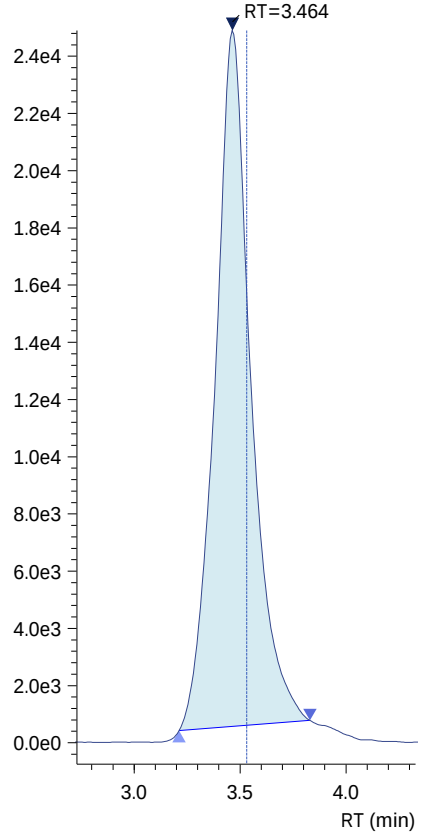
R1 101.00>85.00 (-) A=150386 1.28e4



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=288007 2.49e4



Insight Report

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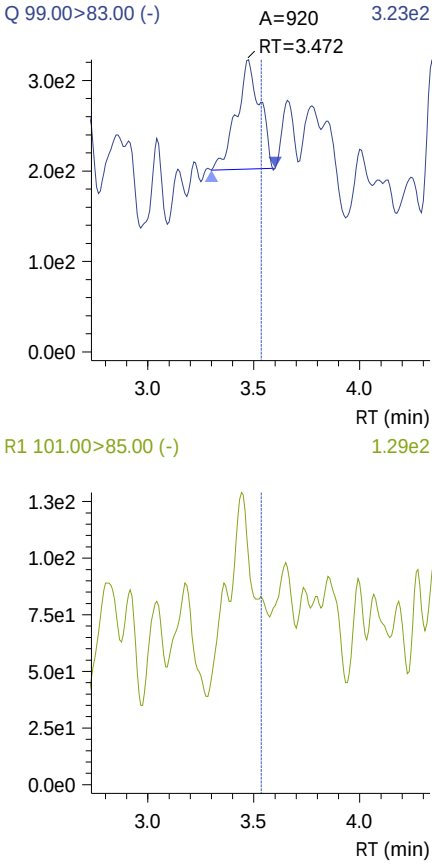
IB

Sample ID: IB
Date Acquired: 6/3/2024 2:34:30 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240603\20240603-006.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	NI	----	----	256638	----	ng/mL	101.00 >85.00	0.00	23.84 -44.27
Sodium Perchlorate-18O4_IS	Auto	3.463	256638	256638	1.0000	ng/mL	----	----	

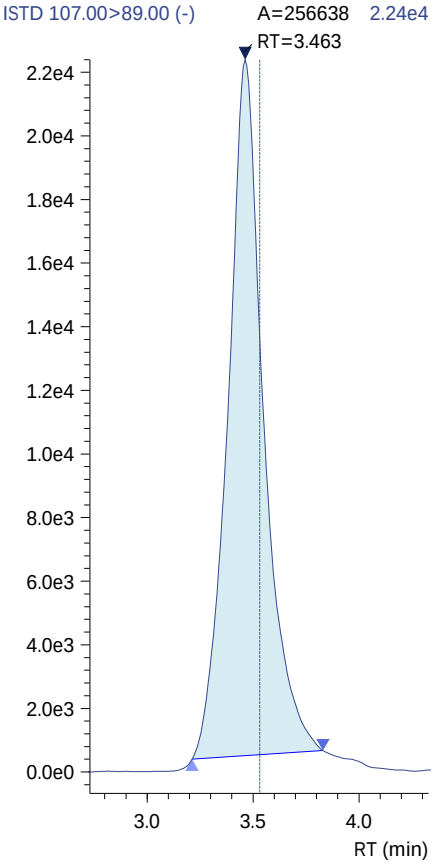
Perchlorate

Conc ----
R#1 0.00 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/4/2024 10:00:48 AM

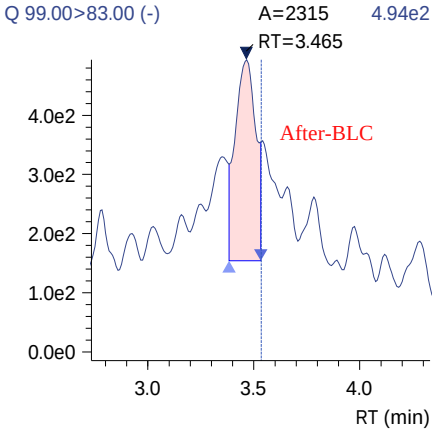
E2400566-03 10X

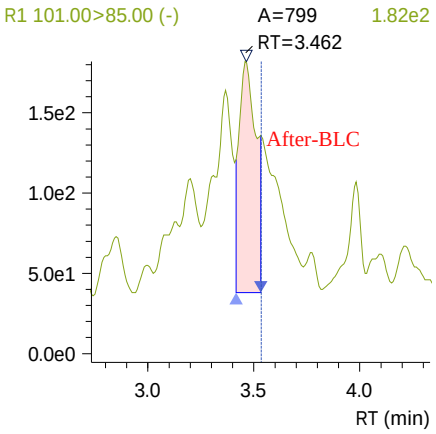
Sample ID: E2400566-03 10X
Date Acquired: 6/3/2024 2:40:03 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240603\20240603-007.lcd
Vial: 39 | Inj. Volume: 10.0000uL | Tray: 2

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.465	2315	251833	0.0694	ng/mL	101.00 >85.00	34.53	23.84 -44.27
Sodium Perchlorate-18O4_IS	Auto	3.464	2518 33	251833	1.0000	ng/mL	----	----	

Perchlorate

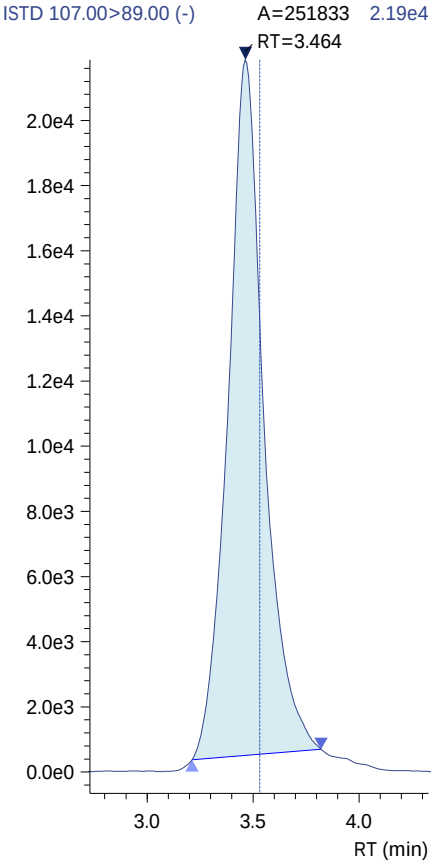
Conc 0.0694
R#1 34.53 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/4/2024 10:01:32 AM

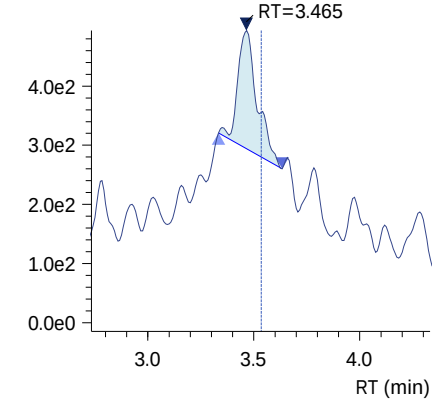
E2400566-03 10X

Sample ID: E2400566-03 10X
Date Acquired: 6/3/2024 2:40:03 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240603\20240603-007.lcd
Vial: 39 | Inj. Volume: 10.0000uL | Tray: 2

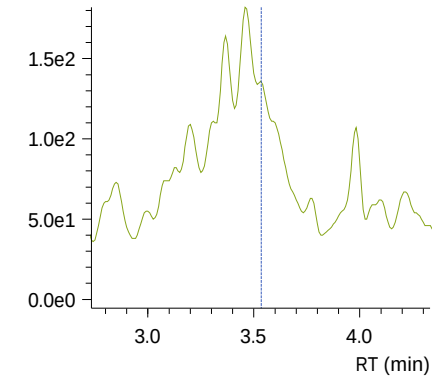
Perchlorate

Conc 0.0380
R#1 0.00 (34.10)

Q 99.00>83.00 (-) A=1267 4.94e2



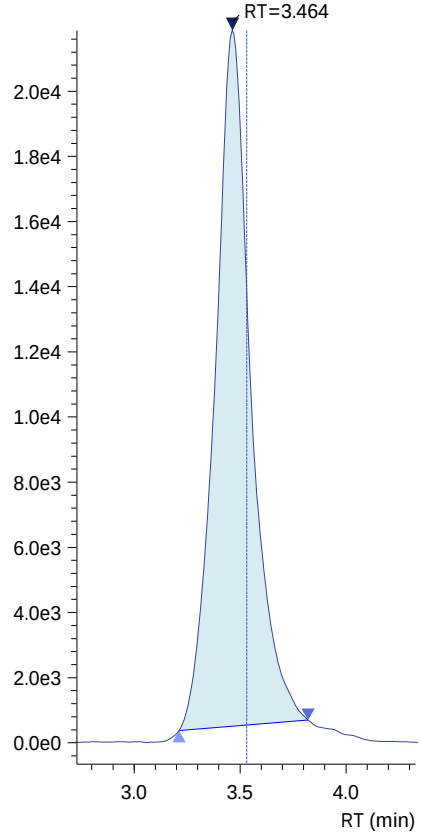
R1 101.00>85.00 (-) 1.82e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=251833 2.19e4



Insight Report

Printed at 6/4/2024 10:00:48 AM

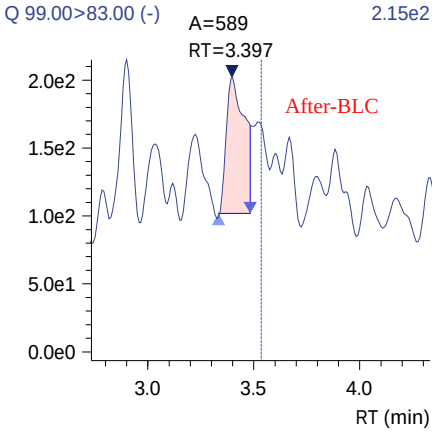
E2400566-05 10X

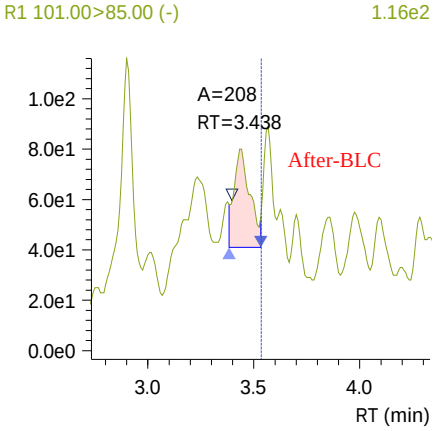
Sample ID: E2400566-05 10X
Date Acquired: 6/3/2024 2:45:37 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240603\20240603-008.lcd
Vial: 41 | Inj. Volume: 10.0000uL | Tray: 2

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.397	589	263150	0.0169	ng/mL	101.00 >85.00	35.27	23.84 -44.27
Sodium Perchlorate-18O4 _IS	Auto	3.463	2631 50	263150	1.0000	ng/mL	----	----	

Perchlorate

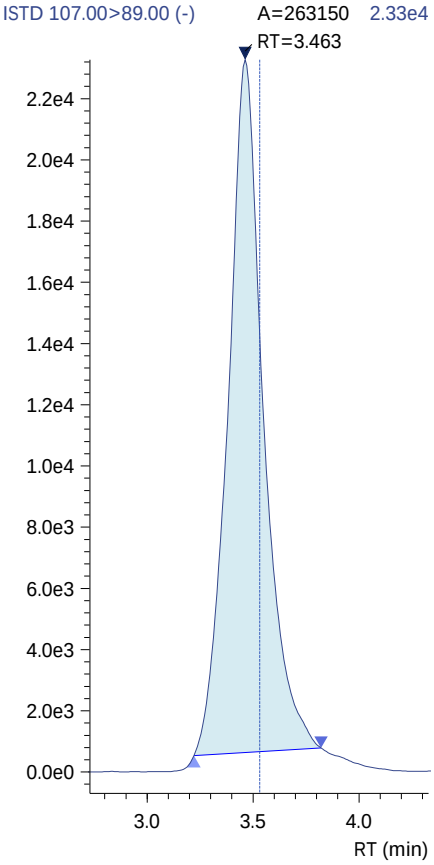
Conc 0.0169
R#1 35.27 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/4/2024 10:01:32 AM

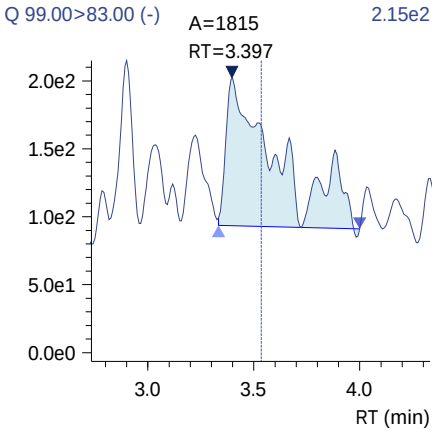
E2400566-05 10X

Sample ID: E2400566-05 10X
Date Acquired: 6/3/2024 2:45:37 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240603\20240603-008.lcd
Vial: 41 | Inj. Volume: 10.0000uL | Tray: 2

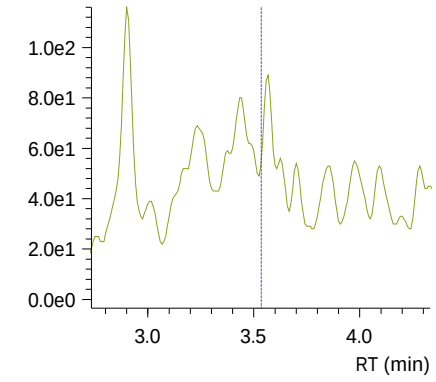
Perchlorate

Conc 0.0521
R#1 0.00 (34.10)

Q 99.00>83.00 (-) 2.15e2



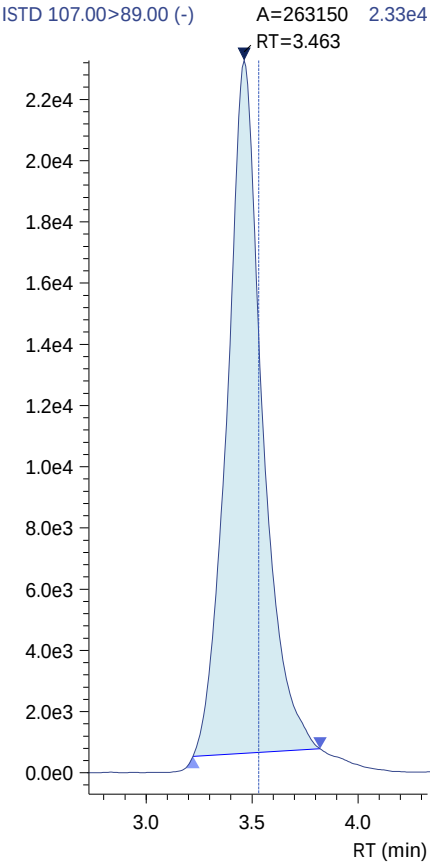
R1 101.00>85.00 (-) 1.16e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 2.33e4



Insight Report

Printed at 6/4/2024 10:00:48 AM

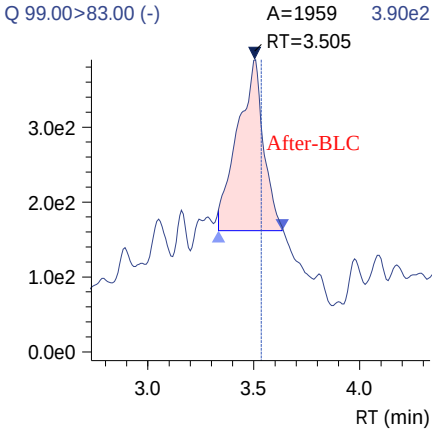
E2400566-09 10X

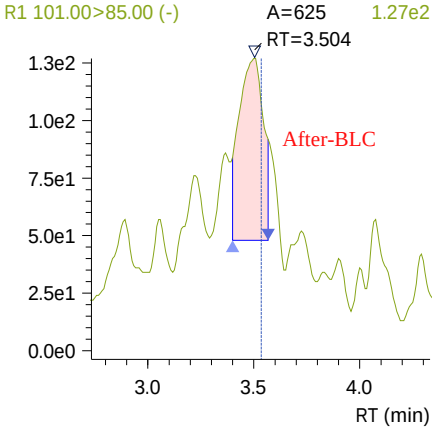
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Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240603\20240603-009.lcd
Vial: 45 | Inj. Volume: 10.0000uL | Tray: 2

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.505	1959	244174	0.0606	ng/mL	101.00 >85.00	31.88	23.84 -44.27
Sodium Perchlorate-18O4 _IS	Auto	3.463	2441 74	244174	1.0000	ng/mL	----	----	

Perchlorate

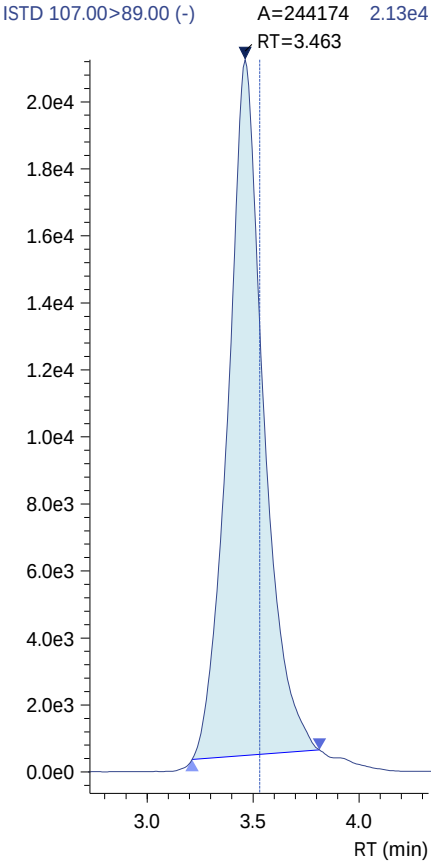
Conc 0.0606
R#1 31.88 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/4/2024 10:01:32 AM

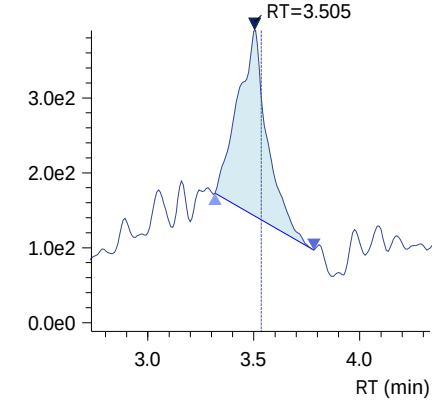
E2400566-09 10X

Sample ID: E2400566-09 10X
Date Acquired: 6/3/2024 2:51:12 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240603\20240603-009.lcd
Vial: 45 | Inj. Volume: 10.0000uL | Tray: 2

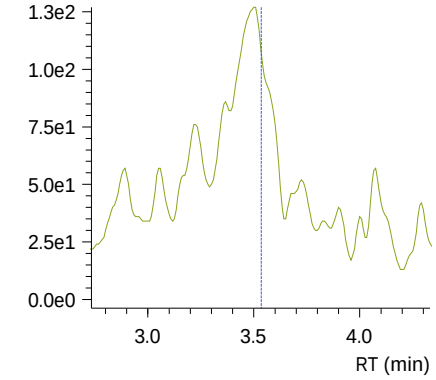
Perchlorate

Conc 0.0737
R#1 0.00 (34.10)

Q 99.00>83.00 (-) A=2383 3.90e2 RT=3.505



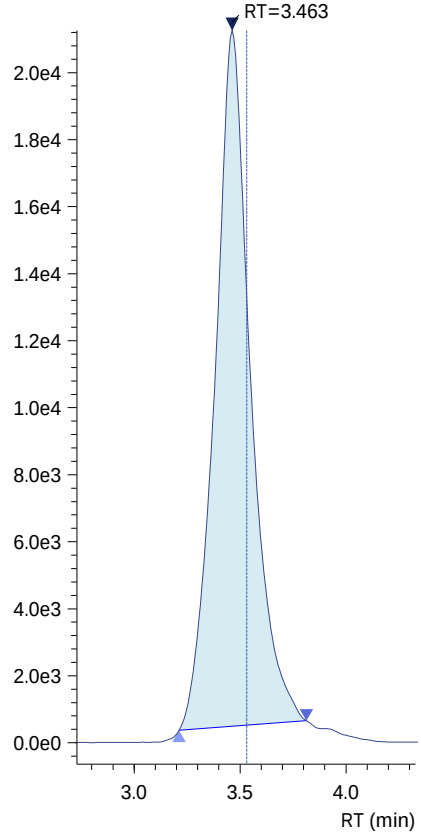
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Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=244174 2.13e4 RT=3.463



Insight Report

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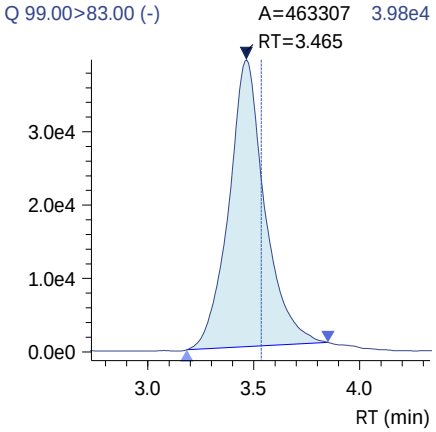
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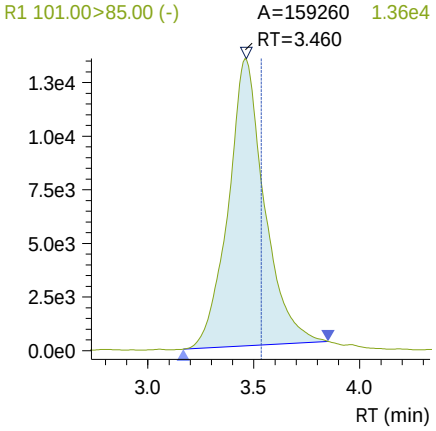
Sample ID: CCV
Date Acquired: 6/3/2024 3:13:21 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240603\20240603-013.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.465	463307	316241	11.0603	ng/mL	101.00 >85.00	34.38	23.84 -44.27
Sodium Perchlorate-18O4_IS	M	3.463	316241	316241	1.0000	ng/mL	----	----	

Perchlorate

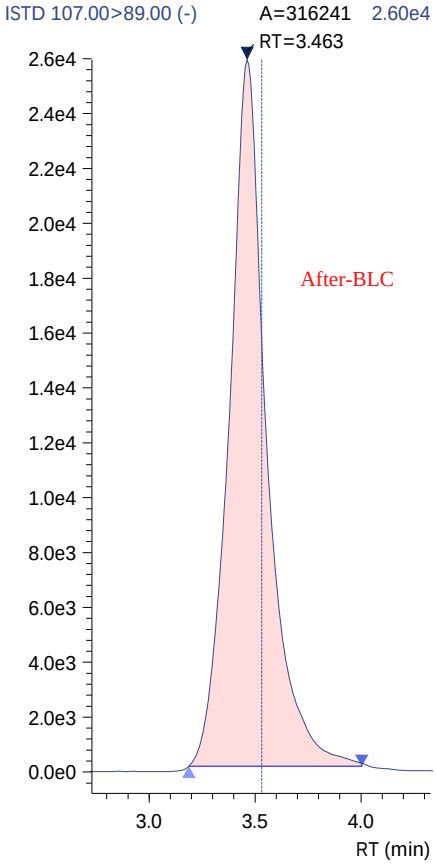
Conc 11.0603
R#1 34.38 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

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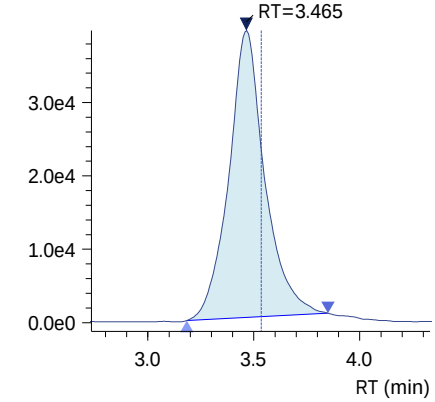
CCV

Sample ID: CCV
Date Acquired: 6/3/2024 3:13:21 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240603\20240603-013.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

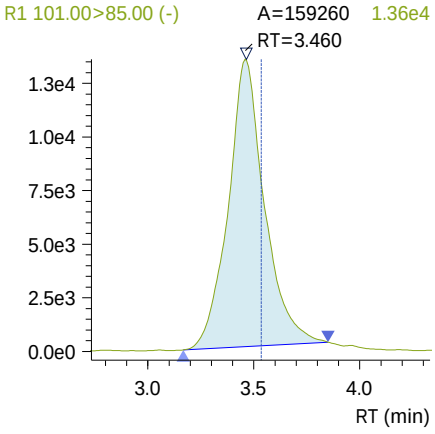
Perchlorate

Conc 11.7603
R#1 34.38 (34.10)

Q 99.00>83.00 (-) A=463307 3.98e4



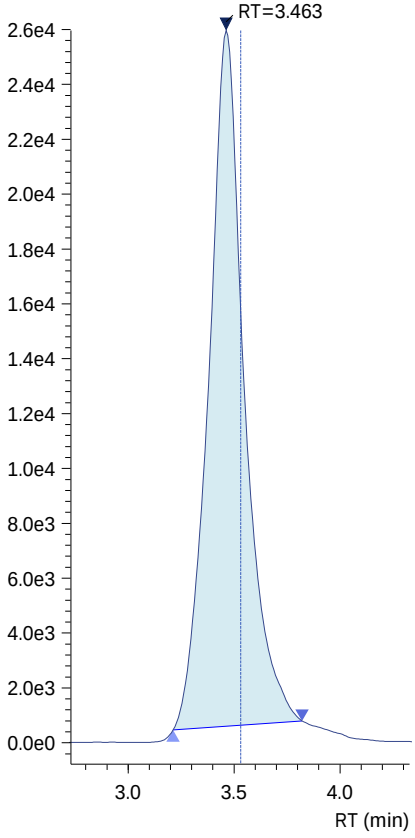
R1 101.00>85.00 (-) A=159260 1.36e4



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=297417 2.60e4



Insight Report

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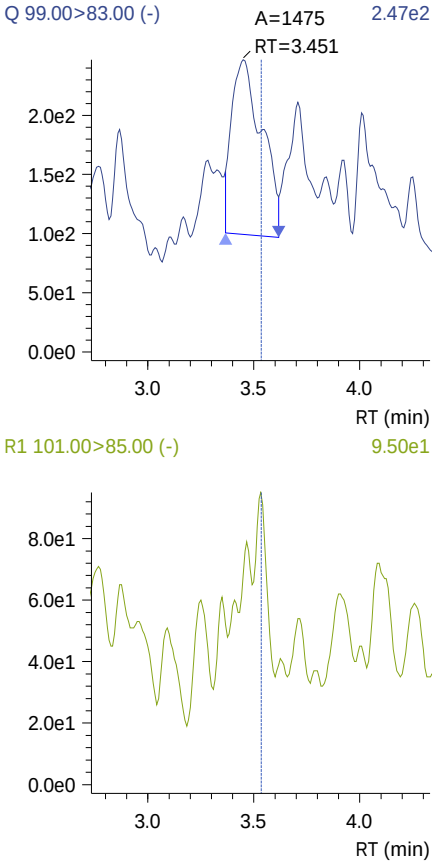
IB

Sample ID: IB
Date Acquired: 6/3/2024 3:18:55 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240603\20240603-014.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	NI	----	----	252333	----	ng/mL	101.00 >85.00	0.00	23.84 -44.27
Sodium Perchlorate-18O4_IS	Auto	3.462	252333	252333	1.0000	ng/mL	----	----	

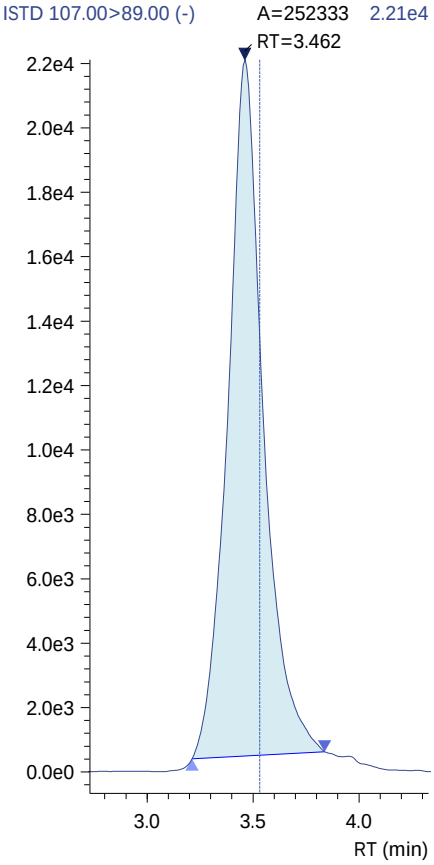
Perchlorate

Conc ----
R#1 0.00 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



HS24051300 Eurofin Lab Sub Data IV Package J173355-1 Std_Tal_L4 Final Report

ALS WO# HS24051300

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 06/06/2024

JOB DESCRIPTION

HS24051300

JOB NUMBER

410-173355-1

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

See page two for job notes and contact information.

myEOL

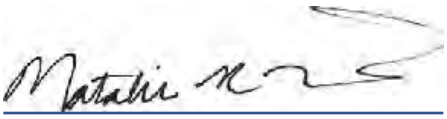
Eurofins Lancaster Laboratories Environment Testing, LLC

Job Notes

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
06/06/2024

Authorized for release by
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Designee for
Dana Kauffman, Project Manager
Dana.Kauffman@et.eurofinsus.com
717 556-7219

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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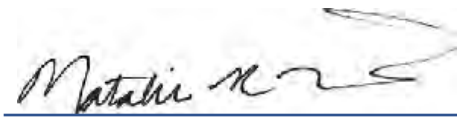


Table of Contents

Cover Page 1
Data Summaries 5
Definitions 5
Case Narrative 6
Detection Summary 7
Client Sample Results 8
Default Detection Limits 9
QC Sample Results 10
QC Association 11
Chronicle 12
Certification Summary 13
Method Summary 14
Sample Summary 15
Manual Integration Summary 16
Reagent Traceability 18
Organic Sample Data 19
GC VOA 19
Method RSK-175 CO2 DOD 19
Method RSK-175 CO2 DOD QC Summary 20
Method RSK-175 CO2 DOD Sample Data 23
Standards Data 33
Method RSK-175 CO2 DOD ICAL Data 33
Method RSK-175 CO2 DOD CCAL Data 50
Raw QC Data 66
Method RSK-175 CO2 DOD Blank Data 66
Method RSK-175 CO2 DOD LCS/LCSD Data 70
Method RSK-175 CO2 DOD Run Logs 76
Method RSK-175 CO2 DOD Prep Data 78
Shipping and Receiving Documents 80
Client Chain of Custody 81
Sample Receipt Checklist 82

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
410-173355-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- 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 may be 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.

Receipt
The samples were received on 5/24/2024 9:45 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 3.7°C.

Receipt Exceptions
The Chain-of-Custody (COC) was incomplete as received. The COC is missing Sample Preservation, Number of containers per sample, Sample Type (Grab or Composite). This does not meet regulatory requirements.

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: HS24051300

Job ID: 410-173355-1

Client Sample ID: 50WW14_052124 — Lab Sample ID: 410-173355-1

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Carbon dioxide	110000		12000	11000	5600	ug/L	1		RSK-175	Total/NA

Client Sample ID: 50WW13_052124 — Lab Sample ID: 410-173355-2

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Carbon dioxide	280000	M	12000	11000	5600	ug/L	1		RSK-175	Total/NA

Client Sample ID: 50WW11_052124 — Lab Sample ID: 410-173355-3

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Carbon dioxide	62000		12000	11000	5600	ug/L	1		RSK-175	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: 50WW14_052124
Lab Sample ID: 410-173355-1

Date Collected: 05/21/24 07:15
Matrix: Water
Date Received: 05/24/24 09:45

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Carbon dioxide	110000		12000	11000	5600	ug/L		05/28/24 11:35	1

Client Sample ID: 50WW13_052124
Lab Sample ID: 410-173355-2

Date Collected: 05/21/24 08:00
Matrix: Water
Date Received: 05/24/24 09:45

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Carbon dioxide	280000	M	12000	11000	5600	ug/L		05/28/24 11:43	1

Client Sample ID: 50WW11_052124
Lab Sample ID: 410-173355-3

Date Collected: 05/21/24 08:50
Matrix: Water
Date Received: 05/24/24 09:45

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Carbon dioxide	62000		12000	11000	5600	ug/L		05/28/24 12:04	1

Default Detection Limits

Client: ALS Group USA, Corp
Project/Site: HS24051300

Job ID: 410-173355-1

Method: RSK-175 - Dissolved Gases (GC)

Prep: RSK-175

Analyte	LOQ	DL	Units
Carbon dioxide	12000	5600	ug/L

Method: RSK-175 - Dissolved Gases (GC)

Lab Sample ID: MB 410-510950/1-A
Matrix: Water
Analysis Batch: 510895

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 510950

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Carbon dioxide	5600	U M	12000	11000	5600	ug/L		05/28/24 10:33	1

Lab Sample ID: LCS 410-510950/2-A
Matrix: Water
Analysis Batch: 510895

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 510950

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Carbon dioxide			35800	35500		ug/L		99	80 - 122		

Lab Sample ID: LCSD 410-510950/3-A
Matrix: Water
Analysis Batch: 510895

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 510950

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Carbon dioxide			35800	34600		ug/L		96	80 - 122	3	20

QC Association Summary

Client: ALS Group USA, Corp
Project/Site: HS24051300

Job ID: 410-173355-1

GC VOA

Analysis Batch: 510895

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-173355-1	50WW14_052124	Total/NA	Water	RSK-175	510950
410-173355-2	50WW13_052124	Total/NA	Water	RSK-175	510950
410-173355-3	50WW11_052124	Total/NA	Water	RSK-175	510950
MB 410-510950/1-A	Method Blank	Total/NA	Water	RSK-175	510950
LCS 410-510950/2-A	Lab Control Sample	Total/NA	Water	RSK-175	510950
LCSD 410-510950/3-A	Lab Control Sample Dup	Total/NA	Water	RSK-175	510950

Prep Batch: 510950

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-173355-1	50WW14_052124	Total/NA	Water	RSK-175	
410-173355-2	50WW13_052124	Total/NA	Water	RSK-175	
410-173355-3	50WW11_052124	Total/NA	Water	RSK-175	
MB 410-510950/1-A	Method Blank	Total/NA	Water	RSK-175	
LCS 410-510950/2-A	Lab Control Sample	Total/NA	Water	RSK-175	
LCSD 410-510950/3-A	Lab Control Sample Dup	Total/NA	Water	RSK-175	

Client Sample ID: 50WW14_052124
Lab Sample ID: 410-173355-1

Date Collected: 05/21/24 07:15
Matrix: Water
Date Received: 05/24/24 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	RSK-175			510950	HQR6	ELLE	05/28/24 10:08
Total/NA	Analysis	RSK-175		1	510895	LXF2	ELLE	05/28/24 11:35

Client Sample ID: 50WW13_052124
Lab Sample ID: 410-173355-2

Date Collected: 05/21/24 08:00
Matrix: Water
Date Received: 05/24/24 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	RSK-175			510950	HQR6	ELLE	05/28/24 10:08
Total/NA	Analysis	RSK-175		1	510895	LXF2	ELLE	05/28/24 11:43

Client Sample ID: 50WW11_052124
Lab Sample ID: 410-173355-3

Date Collected: 05/21/24 08:50
Matrix: Water
Date Received: 05/24/24 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	RSK-175			510950	HQR6	ELLE	05/28/24 10:08
Total/NA	Analysis	RSK-175		1	510895	LXF2	ELLE	05/28/24 12:04

Laboratory References:

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

Accreditation/Certification Summary

01333794

Client: ALS Group USA, Corp
Job ID: 410-173355-1
Project/Site: HS24051300

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	05-30-24

Method Summary

Client: ALS Group USA, Corp
Project/Site: HS24051300

Job ID: 410-173355-1

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

01333796

Client: ALS Group USA, Corp
Job ID: 410-173355-1
Project/Site: HS24051300

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
410-173355-1	50WW14_052124	Water	05/21/24 07:15	05/24/24 09:45
410-173355-2	50WW13_052124	Water	05/21/24 08:00	05/24/24 09:45
410-173355-3	50WW11_052124	Water	05/21/24 08:50	05/24/24 09:45

GC VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-173355-1

SDG No.:

Instrument ID: 19506-B Analysis Batch Number: 499750

Lab Sample ID: IC 410-499750/13 Client Sample ID:

Date Analyzed: 04/29/24 16:37 Lab File ID: 312024_4_29BB.0013.d GC Column: 19809 ID: 1(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Carbon dioxide	1.98	Baseline Smoothing	LXF2	04/30/24 04:03

GC VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-173355-1

SDG No.:

Instrument ID: 19506-B Analysis Batch Number: 510895

Lab Sample ID: MB 410-510950/1-A Client Sample ID:

Date Analyzed: 05/28/24 10:33 Lab File ID: 312024_5_28BB.0005.d GC Column: 19809 ID: 1(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Carbon dioxide	2.05	Peak not integrated	LXF2	05/29/24 03:49

Lab Sample ID: 410-173355-2 Client Sample ID: 50WW13_052124

Date Analyzed: 05/28/24 11:43 Lab File ID: 312024_5_28BB.0014.d GC Column: 19809 ID: 1(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Carbon dioxide	1.98	Baseline Smoothing	LXF2	05/29/24 03:50

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-173355-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
EPH_CO2ICV_00003	04/01/25	04/01/24	DI Water, Lot In House	1 mL	EPH_CO2XX_00003	0.0018 g	Carbon dioxide	547000 ppb
.EPH_CO2XX_00003	04/01/25	Air Products, Lot A214157			(Purchased Reagent)		Carbon dioxide	30.3889 %
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.: 410-173355-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 312024_5_28BB.0006.d

Lab ID: LCS 410-510950/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Carbon dioxide	35800	35500	99	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.: 410-173355-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 312024_5_28BB.0007.d

Lab ID: LCSD 410-510950/3-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Carbon dioxide	35800	34600	96	3	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.: 410-173355-1

SDG No.:

Lab File ID: 312024_5_28BB.0005.d Lab Sample ID: MB 410-510950/1-A

Matrix: Water Heated Purge:(Y/N) N

Instrument ID: 19506-B Date Analyzed: 05/28/2024 10:33

GC Column: 19809 ID: 1(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 410-510950/2-A	312024_5_28 BB.0006.d	05/28/2024 10:40
	LCSD 410-510950/3-A	312024_5_28 BB.0007.d	05/28/2024 10:49
50WW14_052124	410-173355-1	312024_5_28 BB.0013.d	05/28/2024 11:35
50WW13_052124	410-173355-2	312024_5_28 BB.0014.d	05/28/2024 11:43
50WW11_052124	410-173355-3	312024_5_28 BB.0016.d	05/28/2024 12:04

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-173355-1

SDG No.:

Client Sample ID: 50WW14_052124 Lab Sample ID: 410-173355-1

Matrix: Water Lab File ID: 312024_5_28BB.0013.d

Analysis Method: RSK-175 Date Collected: 05/21/2024 07:15

Sample wt/vol: 5(mL) Date Analyzed: 05/28/2024 11:35

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: 19809 ID: 1(mm)

Purge Volume: Heated Purge: (Y/N) N pH: 7.0

% Moisture: % Solids: Level: (low/med) Low

Analysis Batch No.: 510895 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
124-38-9	Carbon dioxide	110000		12000	11000	5600

Eurofins Lancaster Laboratories Environment Testing, LLC

Target Compound Quantitation Report

Data File:	\\chromfs\Lancaster\ChromData\19506-B\20240528-115108.b\312024_5_28BB.0013.d				
Lims ID:	410-173355-A-1-A				
Client ID:	50WW14_052124				
Sample Type:	Client				
Inject. Date:	28-May-2024 11:35:00	ALS Bottle#:	0	Worklist Smp#:	13
Purge Vol:	1.000 mL	Dil. Factor:	1.0000		
Sample Info:					
Misc. Info.:	410-0115108-013				
Operator ID:		Instrument ID:	19506-B		
Method:	\\chromfs\Lancaster\ChromData\19506-B\20240528-115108.b\RSK_CO2_19506B.m				
Limit Group:	GCV - RSK175 CO2				
Last Update:	29-May-2024 03:50:29	Calib Date:	29-Apr-2024 16:37:00		
Integrator:	Genie				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\19506-B\20240429-112494.b\312024_4_29BB.0013.d				
Column 1 :	ShinCarbon ST Microplacked GC (1.00 mm)		Det: 0FIDA		
Process Host:	CTX1680				

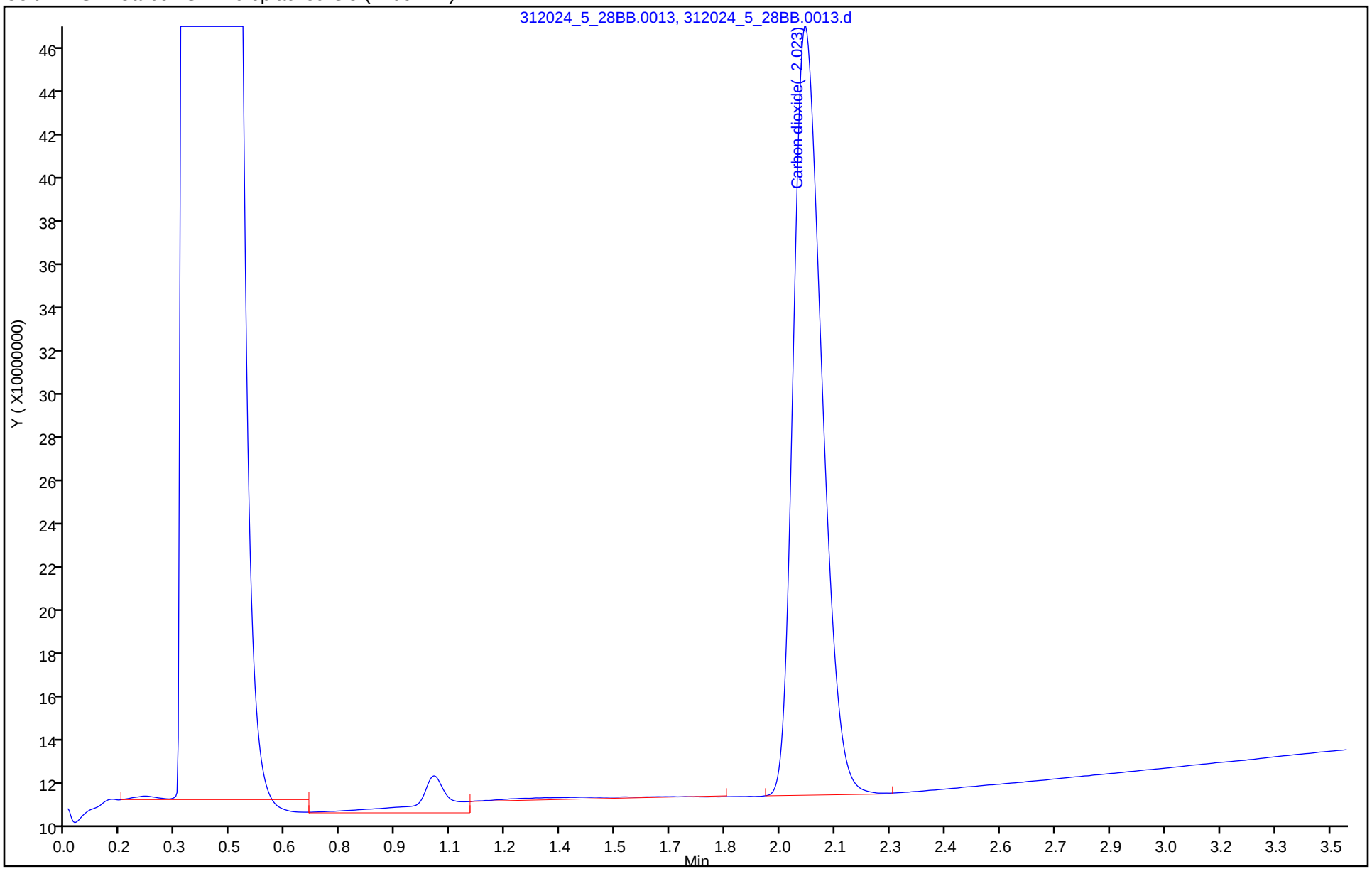
Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/l	Flags
1 Carbon dioxide	2.023	2.040	-0.017	350845914	111809	H

Report Date: 29-May-2024 03:50:32 Chrom Revision: 2.3 20-May-2024 22:00:34

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19506-B\20240528-115108.b\312024_5_28BB.0013.d				
Injection Date:	28-May-2024 11:35:00	Instrument ID:	19506-B	Operator ID:	
Lims ID:	410-173355-A-1-A	Lab Sample ID:	410-173355-1	Worklist Smp#:	13
Client ID:	50WW14_052124				
Purge Vol:	1.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	RSK_CO2_19506B	Limit Group:	GCV - RSK175 CO2		

Column: ShinCarbon ST Microplacked GC (1.00 mm)



FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-173355-1

SDG No.:

Client Sample ID: 50WW13_052124 Lab Sample ID: 410-173355-2

Matrix: Water Lab File ID: 312024_5_28BB.0014.d

Analysis Method: RSK-175 Date Collected: 05/21/2024 08:00

Sample wt/vol: 5(mL) Date Analyzed: 05/28/2024 11:43

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: 19809 ID: 1(mm)

Purge Volume: Heated Purge: (Y/N) N pH: 6.0

% Moisture: % Solids: Level: (low/med) Low

Analysis Batch No.: 510895 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
124-38-9	Carbon dioxide	280000	M	12000	11000	5600

Eurofins Lancaster Laboratories Environment Testing, LLC

Target Compound Quantitation Report

Data File:	\\chromfs\Lancaster\ChromData\19506-B\20240528-115108.b\312024_5_28BB.0014.d				
Lims ID:	410-173355-A-2-A				
Client ID:	50WW13_052124				
Sample Type:	Client				
Inject. Date:	28-May-2024 11:43:00	ALS Bottle#:	0	Worklist Smp#:	14
Purge Vol:	1.000 mL	Dil. Factor:	1.0000		
Sample Info:					
Misc. Info.:	410-0115108-014				
Operator ID:		Instrument ID:	19506-B		
Method:	\\chromfs\Lancaster\ChromData\19506-B\20240528-115108.b\RSK_CO2_19506B.m				
Limit Group:	GCV - RSK175 CO2				
Last Update:	29-May-2024 03:50:29	Calib Date:	29-Apr-2024 16:37:00		
Integrator:	Genie				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\19506-B\20240429-112494.b\312024_4_29BB.0013.d				
Column 1 :	ShinCarbon ST Microplacked GC (1.00 mm)		Det: 0FIDA		
Process Host:	CTX1680				
First Level Reviewer: LXF2		Date:	29-May-2024 03:50:14		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/l	Flags
1 Carbon dioxide	1.980	2.040	-0.060	886763967H	282598	Ma

QC Flag Legend

Processing Flags

H - Response Measured by Height

Review Flags

M - Manually Integrated

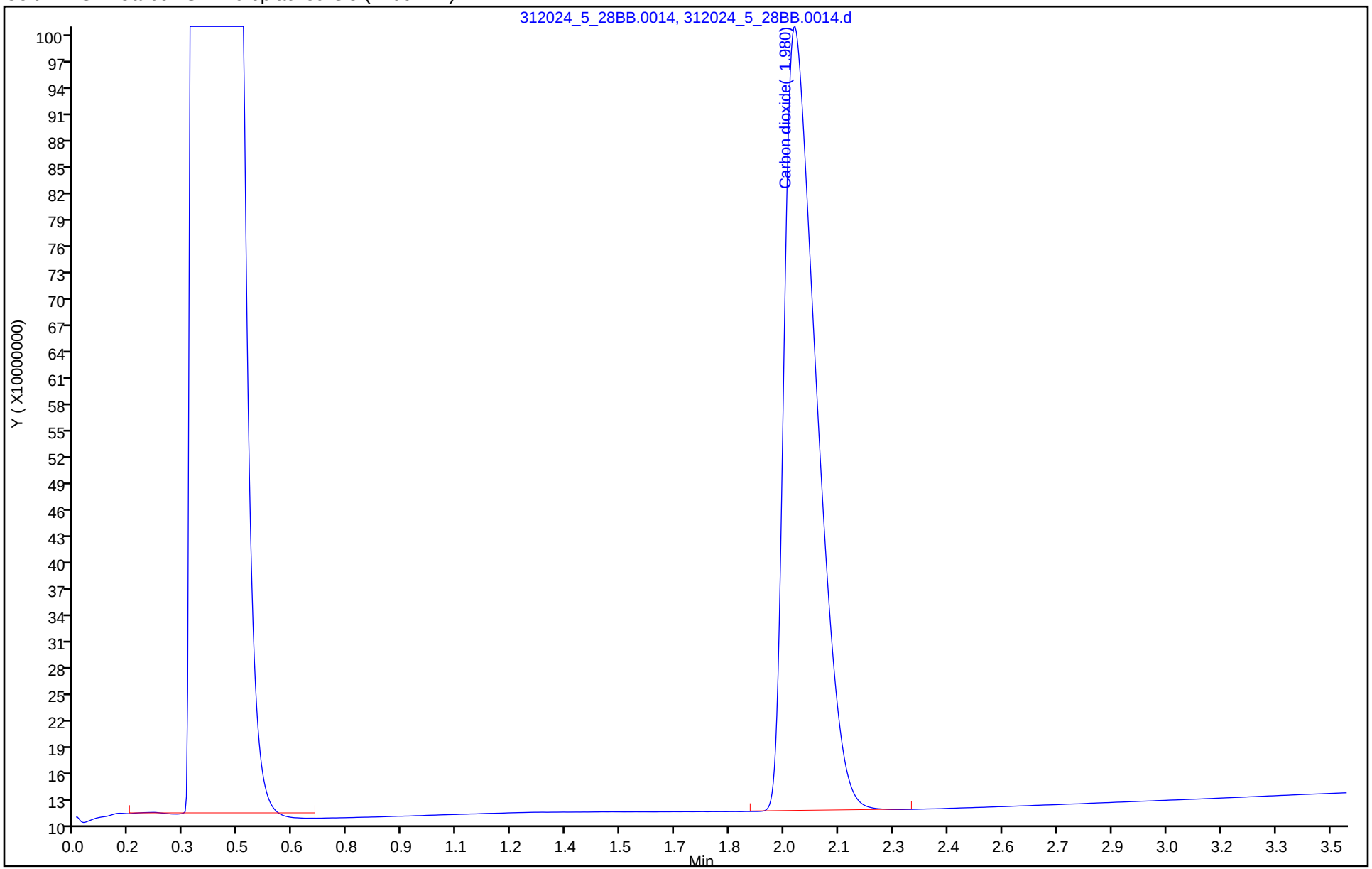
a - User Assigned ID

Report Date: 29-May-2024 03:50:33 Chrom Revision: 2.3 20-May-2024 22:00:34

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19506-B\20240528-115108.b\312024_5_28BB.0014.d				
Injection Date:	28-May-2024 11:43:00	Instrument ID:	19506-B	Operator ID:	
Lims ID:	410-173355-A-2-A	Lab Sample ID:	410-173355-2	Worklist Smp#:	14
Client ID:	50WW13_052124				
Purge Vol:	1.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	RSK_CO2_19506B	Limit Group:	GCV - RSK175 CO2		

Column: ShinCarbon ST Microplacked GC (1.00 mm)



Eurofins Lancaster Laboratories Environment Testing, LLC

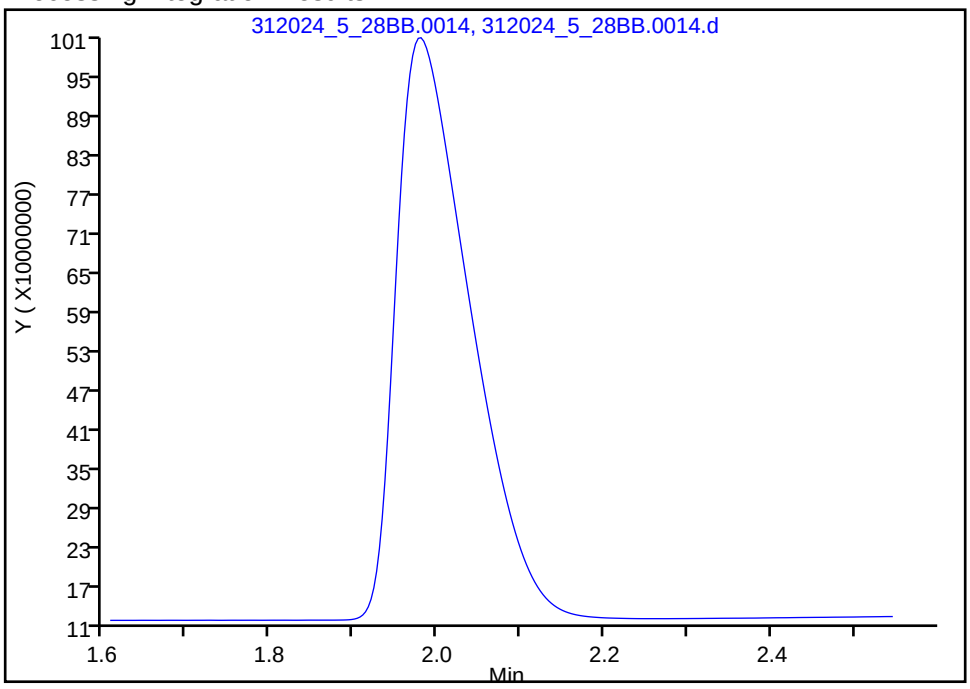
Data File:	\\chromfs\Lancaster\ChromData\19506-B\20240528-115108.b\312024_5_28BB.0014.d				
Injection Date:	28-May-2024 11:43:00	Instrument ID:	19506-B		
Lims ID:	410-173355-A-2-A	Lab Sample ID:	410-173355-2		
Client ID:	50WW13_052124				
Operator ID:		ALS Bottle#:	0	Worklist Smp#:	14
Purge Vol:	1.000 mL	Dil. Factor:	1.0000		
Method:	RSK_CO2_19506B	Limit Group:	GCV - RSK175 CO2		
Column:	ShinCarbon ST Microplacked GC (1.00 mm)	Detector	0FIDA		

1 Carbon dioxide, CAS: 124-38-9

Signal: 1

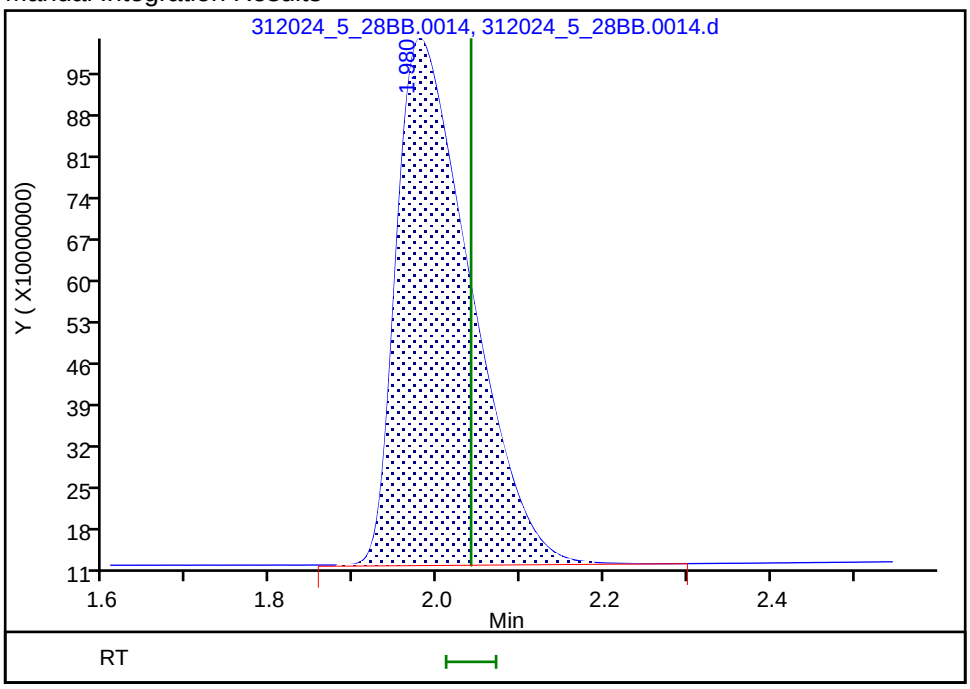
Not Detected
Expected RT: 2.04

Processing Integration Results



Manual Integration Results

RT: 1.98
Height: 886763967
Amount: 282598
Amount Units: ug/l



Reviewer: LXF2, 29-May-2024 03:50:13 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Baseline Smoothing

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-173355-1

SDG No.:

Client Sample ID: 50WW11_052124
Lab Sample ID: 410-173355-3

Matrix: Water
Lab File ID: 312024_5_28BB.0016.d

Analysis Method: RSK-175
Date Collected: 05/21/2024 08:50

Sample wt/vol: 5(mL)
Date Analyzed: 05/28/2024 12:04

Soil Aliquot Vol:
Dilution Factor: 1

Soil Extract Vol.:
GC Column: 19809 ID: 1(mm)

Purge Volume:
Heated Purge: (Y/N) N pH: 7.0

% Moisture: % Solids:
Level: (low/med) Low

Analysis Batch No.: 510895
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
124-38-9	Carbon dioxide	62000		12000	11000	5600

Eurofins Lancaster Laboratories Environment Testing, LLC

Target Compound Quantitation Report

Data File:	\\chromfs\Lancaster\ChromData\19506-B\20240528-115108.b\312024_5_28BB.0016.d				
Lims ID:	410-173355-A-3-A				
Client ID:	50WW11_052124				
Sample Type:	Client				
Inject. Date:	28-May-2024 12:04:00	ALS Bottle#:	0	Worklist Smp#:	16
Purge Vol:	1.000 mL	Dil. Factor:	1.0000		
Sample Info:					
Misc. Info.:	410-0115108-016				
Operator ID:		Instrument ID:	19506-B		
Method:	\\chromfs\Lancaster\ChromData\19506-B\20240528-115108.b\RSK_CO2_19506B.m				
Limit Group:	GCV - RSK175 CO2				
Last Update:	29-May-2024 03:50:33	Calib Date:	29-Apr-2024 16:37:00		
Integrator:	Genie				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\19506-B\20240429-112494.b\312024_4_29BB.0013.d				
Column 1 :	ShinCarbon ST Microplacked GC (1.00 mm)		Det: 0FIDA		
Process Host:	CTX1680				

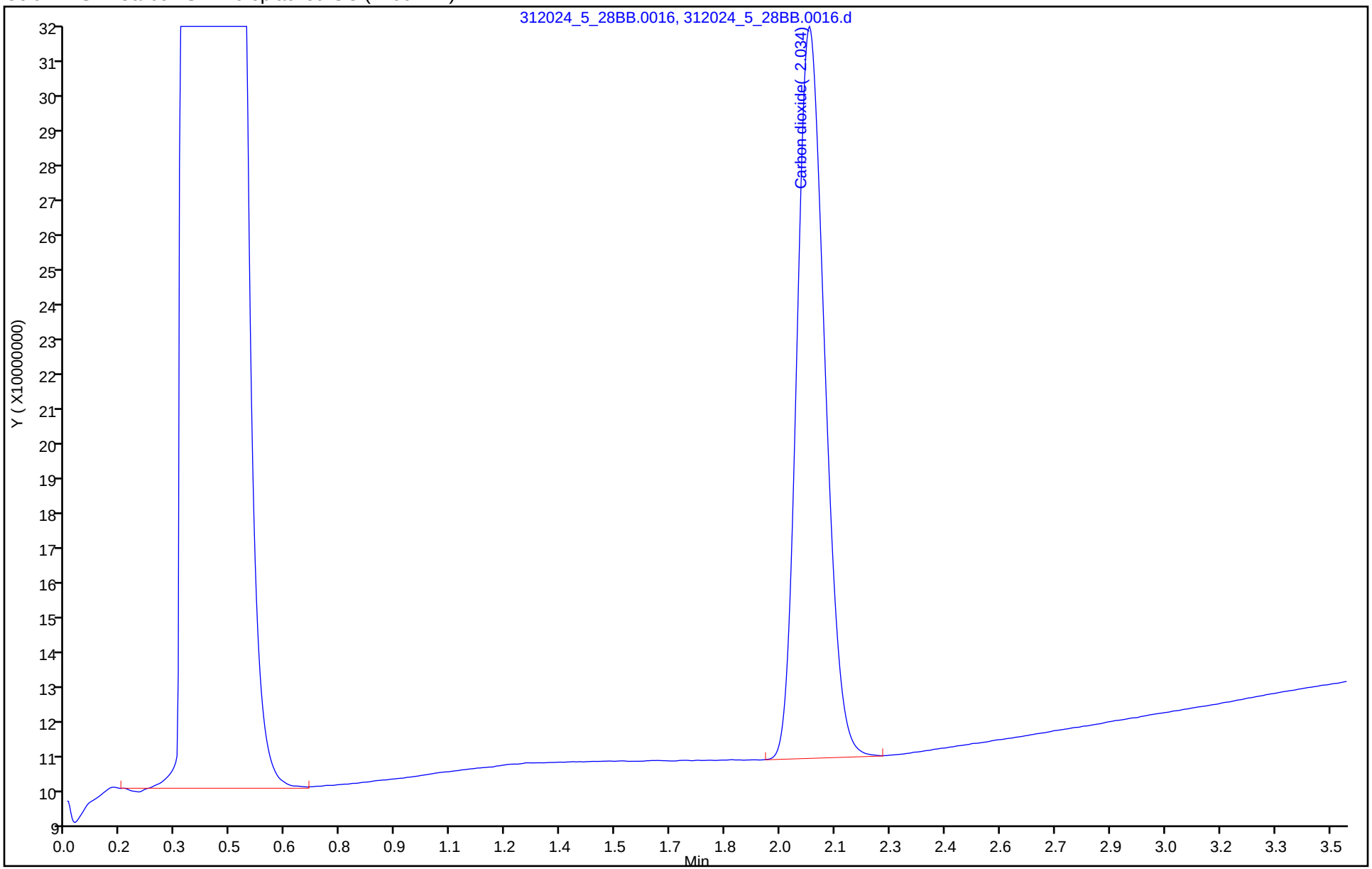
Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/l	Flags
1 Carbon dioxide	2.034	2.040	-0.006	193363903	61622	H

Report Date: 29-May-2024 03:50:33 Chrom Revision: 2.3 20-May-2024 22:00:34

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19506-B\20240528-115108.b\312024_5_28BB.0016.d				
Injection Date:	28-May-2024 12:04:00	Instrument ID:	19506-B	Operator ID:	
Lims ID:	410-173355-A-3-A	Lab Sample ID:	410-173355-3	Worklist Smp#:	16
Client ID:	50WW11_052124				
Purge Vol:	1.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	RSK_CO2_19506B	Limit Group:	GCV - RSK175 CO2		

Column: ShinCarbon ST Microplacked GC (1.00 mm)



Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-173355-1 Analy Batch No.: 499750

SDG No.:

Instrument ID: 19506-B GC Column: 19809 ID: 1(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/29/2024 15:57 Calibration End Date: 04/29/2024 16:37 Calibration ID: 61130

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-499750/8	312024_4_29BB.0008.d
Level 2	IC 410-499750/9	312024_4_29BB.0009.d
Level 3	ICRT 410-499750/10	312024_4_29BB.0010.d
Level 4	IC 410-499750/11	312024_4_29BB.0011.d
Level 5	IC 410-499750/12	312024_4_29BB.0012.d
Level 6	IC 410-499750/13	312024_4_29BB.0013.d

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6					RT WINDOW	AVG RT
Carbon dioxide	2.055	2.051	2.048	2.037	2.020	1.980					2.017 - 2.077	2.032

FORM VI
GC VOA BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

01333815

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-173355-1 Analy Batch No.: 499750

SDG No.:

Instrument ID: 19506-B GC Column: 19809 ID: 1(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/29/2024 15:57 Calibration End Date: 04/29/2024 16:37 Calibration ID: 61130

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-499750/8	312024_4_29BB.0008.d
Level 2	IC 410-499750/9	312024_4_29BB.0009.d
Level 3	ICRT 410-499750/10	312024_4_29BB.0010.d
Level 4	IC 410-499750/11	312024_4_29BB.0011.d
Level 5	IC 410-499750/12	312024_4_29BB.0012.d
Level 6	IC 410-499750/13	312024_4_29BB.0013.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	3273.6 2914.8	3533.4 2752.9	3350.9	3001.7	Ave		3137.90247				9.4		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.

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-173355-1 Analy Batch No.: 499750

SDG No.:

Instrument ID: 19506-B GC Column: 19809 ID: 1(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/29/2024 15:57 Calibration End Date: 04/29/2024 16:37 Calibration ID: 61130

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-499750/8	312024_4_29BB.0008.d
Level 2	IC 410-499750/9	312024_4_29BB.0009.d
Level 3	ICRT 410-499750/10	312024_4_29BB.0010.d
Level 4	IC 410-499750/11	312024_4_29BB.0011.d
Level 5	IC 410-499750/12	312024_4_29BB.0012.d
Level 6	IC 410-499750/13	312024_4_29BB.0013.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	35178219 986082668	75940683	120029586	268806379	522045301	10746 358200	21492	35820	89550	179100

Curve Type Legend:
Ave = Average by Height

Eurofins Lancaster Laboratories Environment Testing, LLC

Target Compound Quantitation Report

Data File:	\\chromfs\Lancaster\ChromData\19506-B\20240429-112494.b\312024_4_29BB.0008.d				
Lims ID:	IC				
Client ID:					
Sample Type:	IC	Calib Level:	1		
Inject. Date:	29-Apr-2024 15:57:00	ALS Bottle#:	0	Worklist Smp#:	8
Purge Vol:	1.000 mL	Dil. Factor:	1.0000		
Sample Info:					
Misc. Info.:	410-0112494-008				
Operator ID:		Instrument ID:	19506-B		
Sublist:	chrom-RSK_CO2_19506B*sub1				
Method:	\\chromfs\Lancaster\ChromData\19506-B\20240429-112494.b\RSK_CO2_19506B.m				
Limit Group:	GCV - RSK175 CO2				
Last Update:	30-Apr-2024 04:04:35	Calib Date:	29-Apr-2024 16:37:00		
Integrator:	Genie				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\19506-B\20240429-112494.b\312024_4_29BB.0013.d				
Column 1 :	ShinCarbon ST Microplacked GC (1.00 mm)		Det: 0FIDA		
Process Host:	CTX1646				

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Carbon dioxide	2.055	2.047	0.008	35178219H	10746	11211	

Reagents:

EPH_CO2MS_00006 Amount Added: 30.00 Units: uL

Report Date: 30-Apr-2024 04:04:35 Chrom Revision: 2.3 26-Apr-2024 12:18:52

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19506-B\20240429-112494.b\312024_4_29BB.0008.d

Injection Date: 29-Apr-2024 15:57:00 Instrument ID: 19506-B Operator ID:

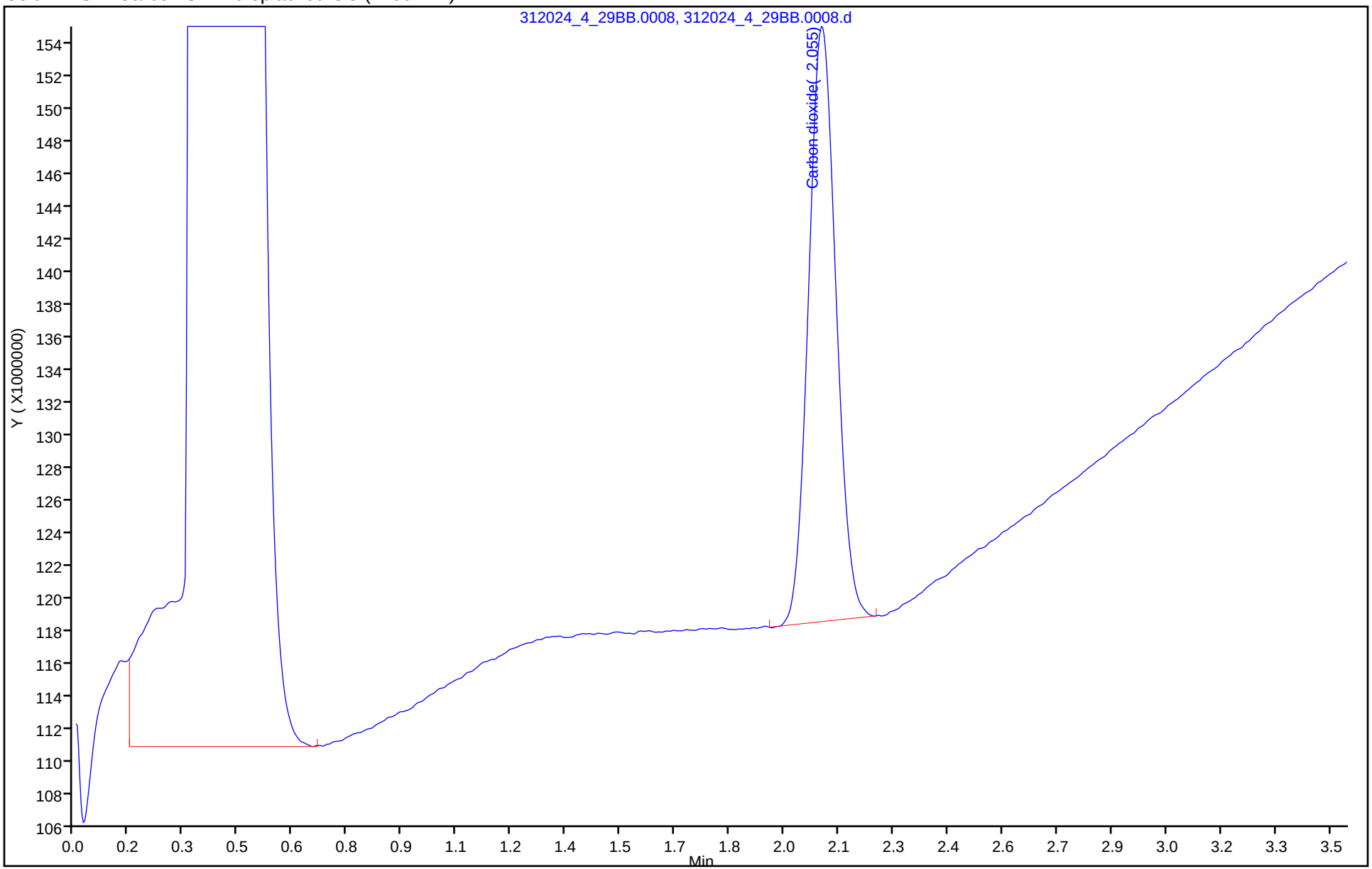
Lims ID: IC Worklist Smp#: 8

Client ID:

Purge Vol: 1.000 mL Dil. Factor: 1.0000 ALS Bottle#: 0

Method: RSK_CO2_19506B Limit Group: GCV - RSK175 CO2

Column: ShinCarbon ST Microplacked GC (1.00 mm)



Eurofins Lancaster Laboratories Environment Testing, LLC

Target Compound Quantitation Report

Data File:	\\chromfs\Lancaster\ChromData\19506-B\20240429-112494.b\312024_4_29BB.0009.d				
Lims ID:	IC				
Client ID:					
Sample Type:	IC	Calib Level:	2		
Inject. Date:	29-Apr-2024 16:06:00	ALS Bottle#:	0	Worklist Smp#:	9
Purge Vol:	1.000 mL	Dil. Factor:	1.0000		
Sample Info:					
Misc. Info.:	410-0112494-009				
Operator ID:		Instrument ID:	19506-B		
Sublist:	chrom-RSK_CO2_19506B*sub1				
Method:	\\chromfs\Lancaster\ChromData\19506-B\20240429-112494.b\RSK_CO2_19506B.m				
Limit Group:	GCV - RSK175 CO2				
Last Update:	30-Apr-2024 04:04:36	Calib Date:	29-Apr-2024 16:37:00		
Integrator:	Genie				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\19506-B\20240429-112494.b\312024_4_29BB.0013.d				
Column 1 :	ShinCarbon ST Microplacked GC (1.00 mm)		Det: 0FIDA		
Process Host:	CTX1646				

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Carbon dioxide	2.051	2.047	0.004	75940683H	21492	24201	

Reagents:

EPH_CO2MS_00006 Amount Added: 60.00 Units: uL

Report Date: 30-Apr-2024 04:04:36 Chrom Revision: 2.3 26-Apr-2024 12:18:52

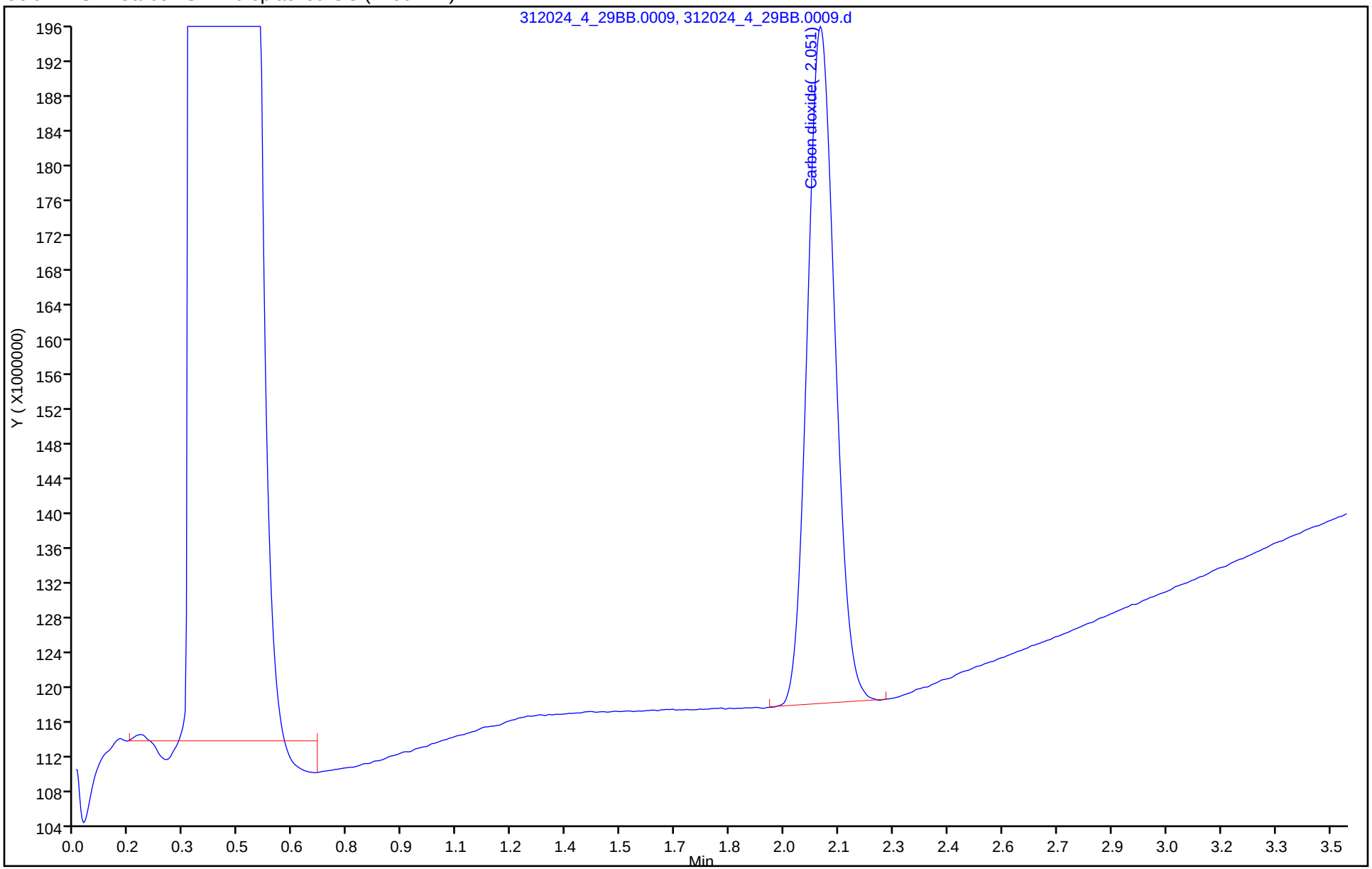
01333820

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19506-B\20240429-112494.b\312024_4_29BB.0009.d

Injection Date:	29-Apr-2024 16:06:00	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: ShinCarbon ST Microplacked GC (1.00 mm)



Eurofins Lancaster Laboratories Environment Testing, LLC

Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19506-B\20240429-112494.b\312024_4_29BB.0010.d
Lims ID: ICRT
Client ID:
Sample Type: ICRT Calib Level: 3
Inject. Date: 29-Apr-2024 16:13:00 ALS Bottle#: 0 Worklist Smp#: 10
Purge Vol: 1.000 mL Dil. Factor: 1.0000
Sample Info:
Misc. Info.: 410-0112494-010
Operator ID: Instrument ID: 19506-B
Sublist: chrom-RSK_CO2_19506B*sub1

Method: \\chromfs\Lancaster\ChromData\19506-B\20240429-112494.b\RSK_CO2_19506B.m
Limit Group: GCV - RSK175 CO2
Last Update: 30-Apr-2024 04:04:36 Calib Date: 29-Apr-2024 16:37:00
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19506-B\20240429-112494.b\312024_4_29BB.0013.d

Column 1 : ShinCarbon ST Microplacked GC (1.00 mm) Det: 0FIDA
Process Host: CTX1646

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Carbon dioxide	2.048	2.048	0.000	120029586	H 35820	38252	

Reagents:

EPH_CO2MS_00006 Amount Added: 100.00 Units: uL

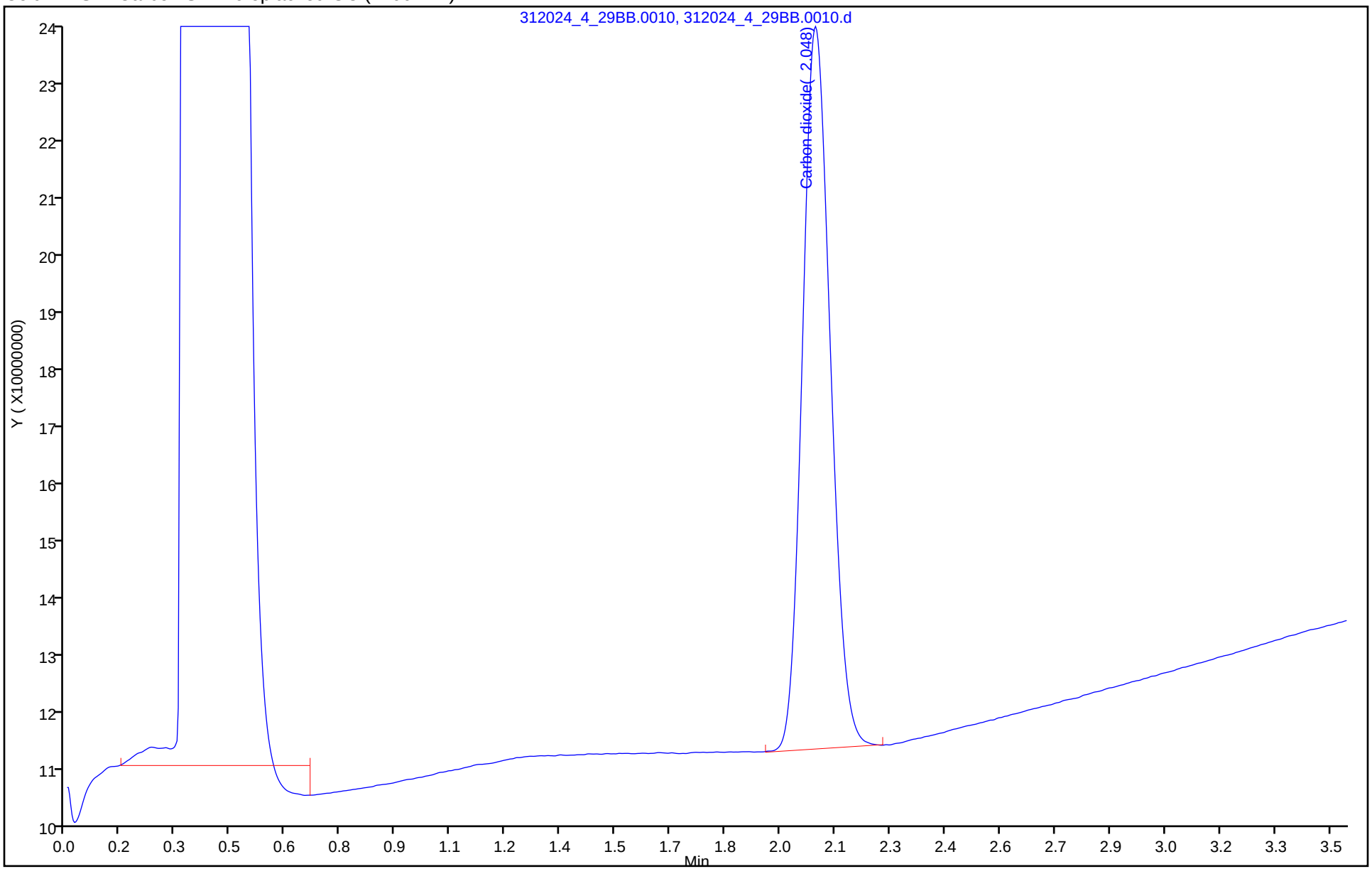
Report Date: 30-Apr-2024 04:04:36 Chrom Revision: 2.3 26-Apr-2024 12:18:52

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19506-B\20240429-112494.b\312024_4_29BB.0010.d

Injection Date:	29-Apr-2024 16:13:00	Instrument ID:	19506-B	Operator ID:	
Lims ID:	ICRT			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: ShinCarbon ST Microplacked GC (1.00 mm)



Eurofins Lancaster Laboratories Environment Testing, LLC

Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19506-B\20240429-112494.b\312024_4_29BB.0011.d
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 29-Apr-2024 16:21:00 ALS Bottle#: 0 Worklist Smp#: 11
Purge Vol: 1.000 mL Dil. Factor: 1.0000
Sample Info:
Misc. Info.: 410-0112494-011
Operator ID: Instrument ID: 19506-B
Sublist: chrom-RSK_CO2_19506B*sub1

Method: \\chromfs\Lancaster\ChromData\19506-B\20240429-112494.b\RSK_CO2_19506B.m
Limit Group: GCV - RSK175 CO2
Last Update: 30-Apr-2024 04:04:37 Calib Date: 29-Apr-2024 16:37:00
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19506-B\20240429-112494.b\312024_4_29BB.0013.d

Column 1 : ShinCarbon ST Microplacked GC (1.00 mm) Det: 0FIDA
Process Host: CTX1646

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Carbon dioxide	2.037	2.048	-0.011	268806379	H 89550	85664	

Reagents:

EPH_CO2MS_00006 Amount Added: 250.00 Units: uL

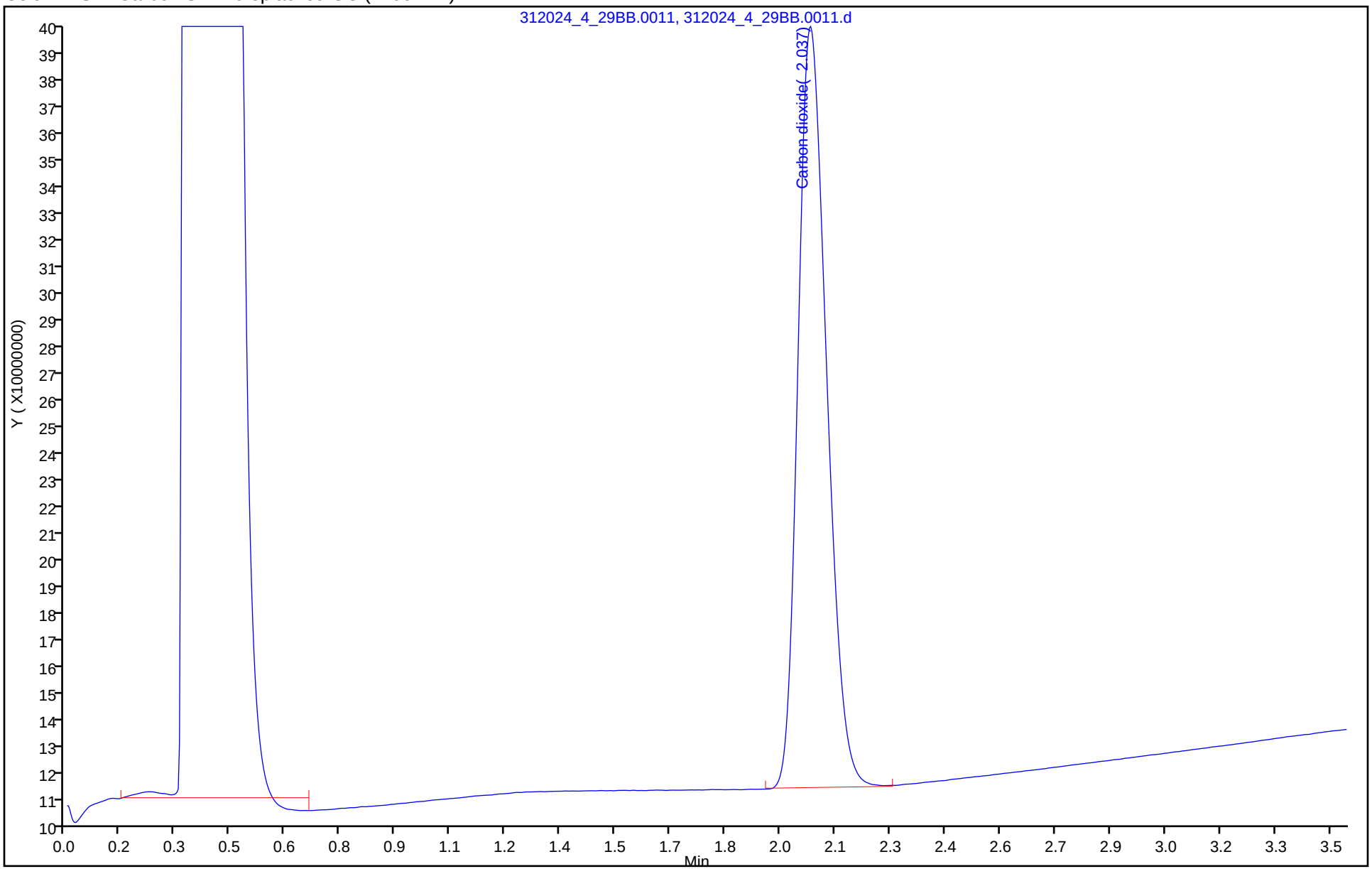
Report Date: 30-Apr-2024 04:04:37 Chrom Revision: 2.3 26-Apr-2024 12:18:52

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19506-B\20240429-112494.b\312024_4_29BB.0011.d

Injection Date:	29-Apr-2024 16:21:00	Instrument ID:	19506-B	Operator ID:	
Lims ID:	IC			Worklist Smp#:	11
Client ID:					
Purge Vol:	1.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	RSK_CO2_19506B	Limit Group:	GCV - RSK175 CO2		

Column: ShinCarbon ST Microplacked GC (1.00 mm)



Eurofins Lancaster Laboratories Environment Testing, LLC

Target Compound Quantitation Report

Data File:	\\chromfs\Lancaster\ChromData\19506-B\20240429-112494.b\312024_4_29BB.0012.d				
Lims ID:	IC				
Client ID:					
Sample Type:	IC	Calib Level:	5		
Inject. Date:	29-Apr-2024 16:29:00	ALS Bottle#:	0	Worklist Smp#:	12
Purge Vol:	1.000 mL	Dil. Factor:	1.0000		
Sample Info:					
Misc. Info.:	410-0112494-012				
Operator ID:		Instrument ID:	19506-B		
Sublist:	chrom-RSK_CO2_19506B*sub1				
Method:	\\chromfs\Lancaster\ChromData\19506-B\20240429-112494.b\RSK_CO2_19506B.m				
Limit Group:	GCV - RSK175 CO2				
Last Update:	30-Apr-2024 04:04:38	Calib Date:	29-Apr-2024 16:37:00		
Integrator:	Genie				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\19506-B\20240429-112494.b\312024_4_29BB.0013.d				
Column 1 :	ShinCarbon ST Microplacked GC (1.00 mm)		Det: 0FIDA		
Process Host:	CTX1646				

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Carbon dioxide	2.020	2.048	-0.028	522045301	H 179100	166368	

Reagents:

EPH_CO2MS_00006 Amount Added: 500.00 Units: uL

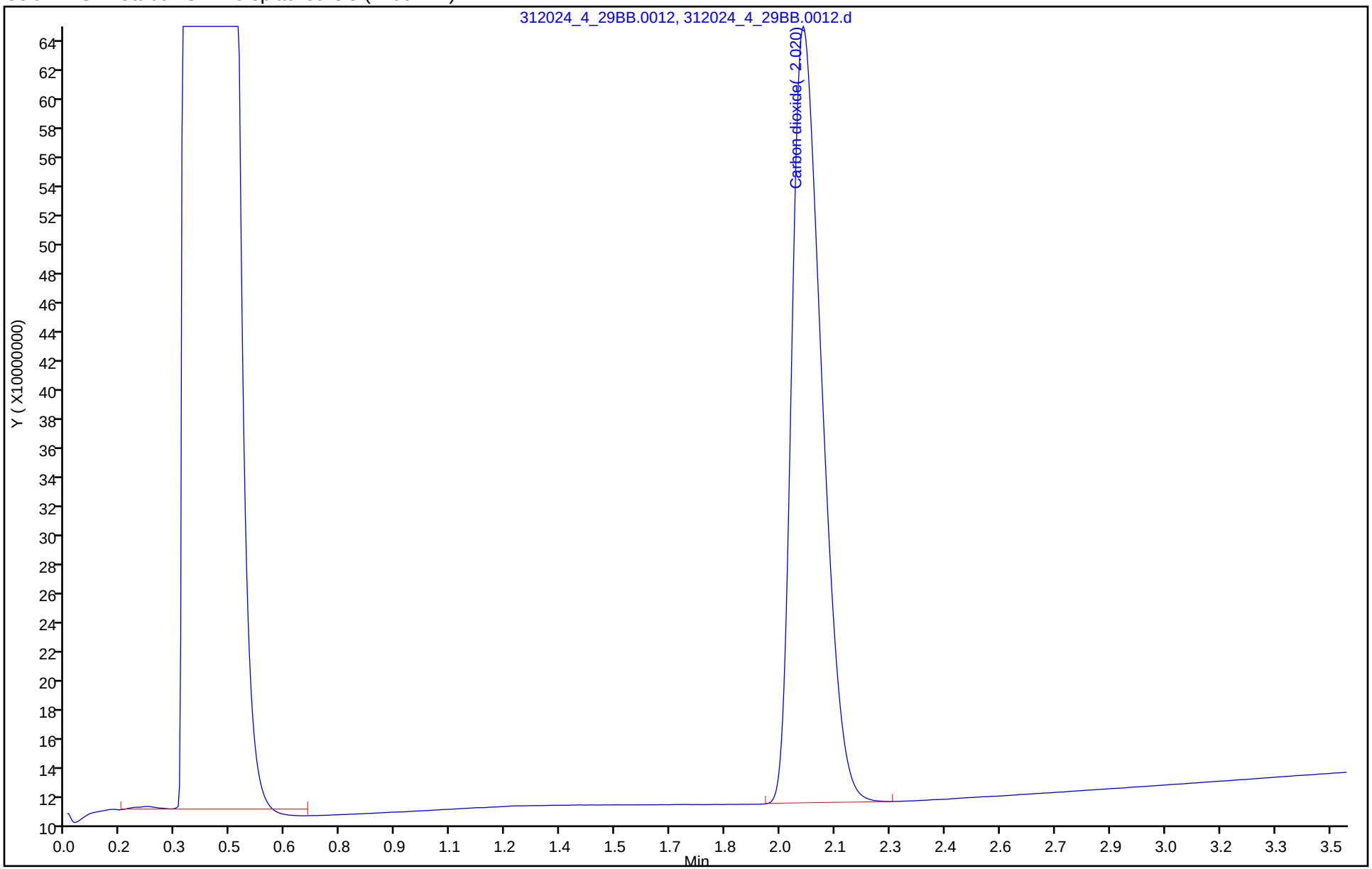
Report Date: 30-Apr-2024 04:04:38 Chrom Revision: 2.3 26-Apr-2024 12:18:52

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19506-B\20240429-112494.b\312024_4_29BB.0012.d

Injection Date:	29-Apr-2024 16:29:00	Instrument ID:	19506-B	Operator ID:	
Lims ID:	IC			Worklist Smp#:	12
Client ID:					
Purge Vol:	1.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	RSK_CO2_19506B	Limit Group:	GCV - RSK175 CO2		

Column: ShinCarbon ST Microplacked GC (1.00 mm)



Eurofins Lancaster Laboratories Environment Testing, LLC

Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19506-B\20240429-112494.b\312024_4_29BB.0013.d
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 29-Apr-2024 16:37:00 ALS Bottle#: 0 Worklist Smp#: 13
Purge Vol: 1.000 mL Dil. Factor: 1.0000
Sample Info:
Misc. Info.: 410-0112494-013
Operator ID: Instrument ID: 19506-B
Sublist: chrom-RSK_CO2_19506B*sub1

Method: \\chromfs\Lancaster\ChromData\19506-B\20240429-112494.b\RSK_CO2_19506B.m
Limit Group: GCV - RSK175 CO2
Last Update: 30-Apr-2024 04:04:38 Calib Date: 29-Apr-2024 16:37:00
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19506-B\20240429-112494.b\312024_4_29BB.0013.d

Column 1 : ShinCarbon ST Microplacked GC (1.00 mm) Det: 0FIDA
Process Host: CTX1646

First Level Reviewer: LXF2 Date: 30-Apr-2024 04:03:45

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Carbon dioxide	1.980	2.048	-0.068	986082668H	358200	314249	Ma

QC Flag Legend

Processing Flags
H - Response Measured by Height
Review Flags
M - Manually Integrated
a - User Assigned ID

Reagents:

EPH_CO2MS_00006 Amount Added: 1000.00 Units: uL

Report Date: 30-Apr-2024 04:04:38 Chrom Revision: 2.3 26-Apr-2024 12:18:52

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19506-B\20240429-112494.b\312024_4_29BB.0013.d

Injection Date: 29-Apr-2024 16:37:00 Instrument ID: 19506-B Operator ID:

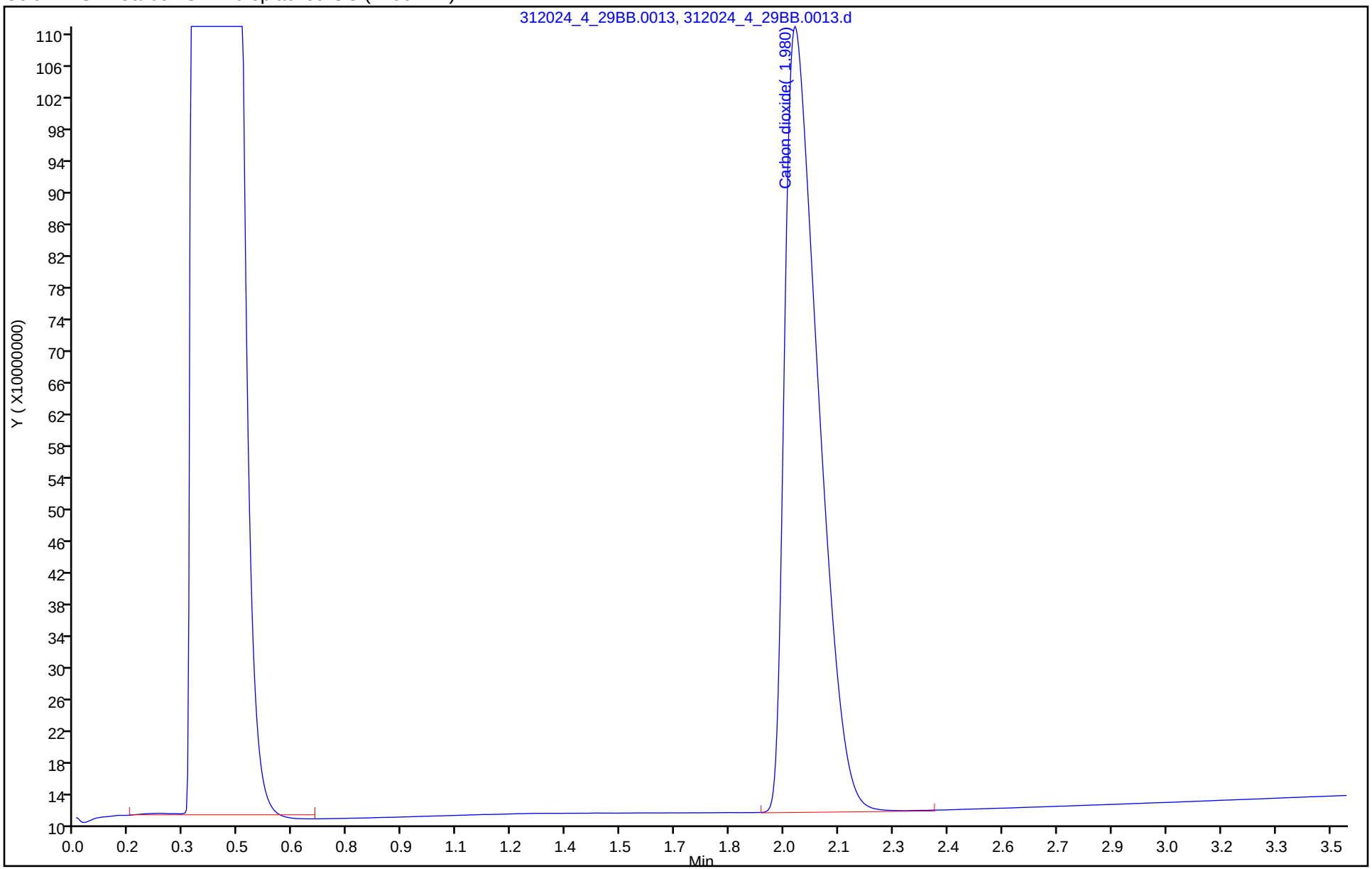
Lims ID: IC Worklist Smp#: 13

Client ID:

Purge Vol: 1.000 mL Dil. Factor: 1.0000 ALS Bottle#: 0

Method: RSK_CO2_19506B Limit Group: GCV - RSK175 CO2

Column: ShinCarbon ST Microplacked GC (1.00 mm)



Eurofins Lancaster Laboratories Environment Testing, LLC

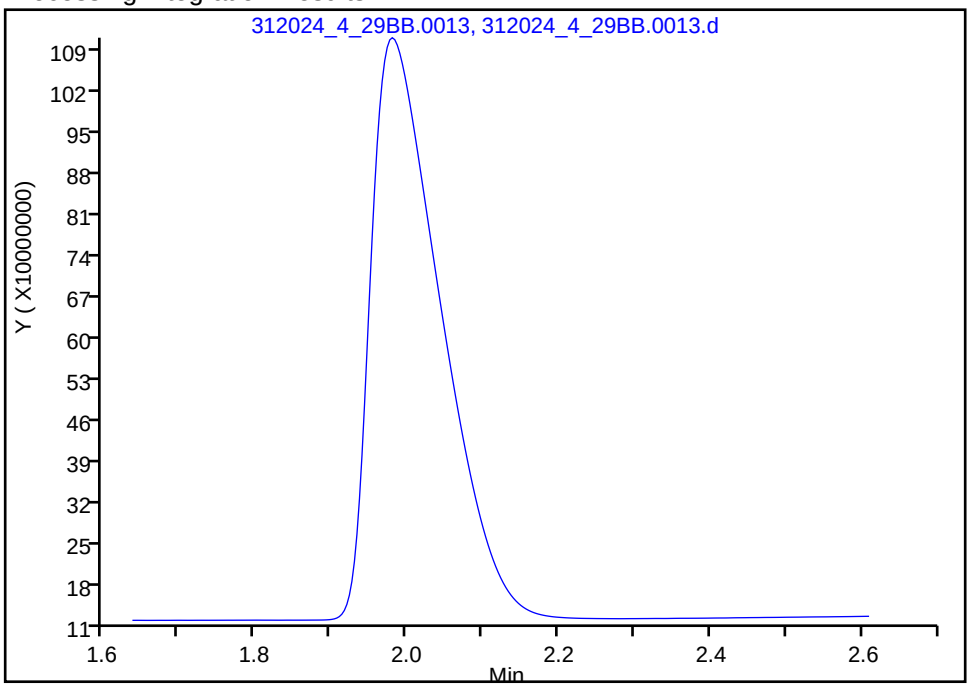
Data File:	\\chromfs\Lancaster\ChromData\19506-B\20240429-112494.b\312024_4_29BB.0013.d				
Injection Date:	29-Apr-2024 16:37:00	Instrument ID:	19506-B		
Lims ID:	IC				
Client ID:					
Operator ID:		ALS Bottle#:	0	Worklist Smp#:	13
Purge Vol:	1.000 mL	Dil. Factor:	1.0000		
Method:	RSK_CO2_19506B	Limit Group:	GCV - RSK175 CO2		
Column:	ShinCarbon ST Microplacked GC (1.00 mm)	Detector	0FIDA		

1 Carbon dioxide, CAS: 124-38-9

Signal: 1

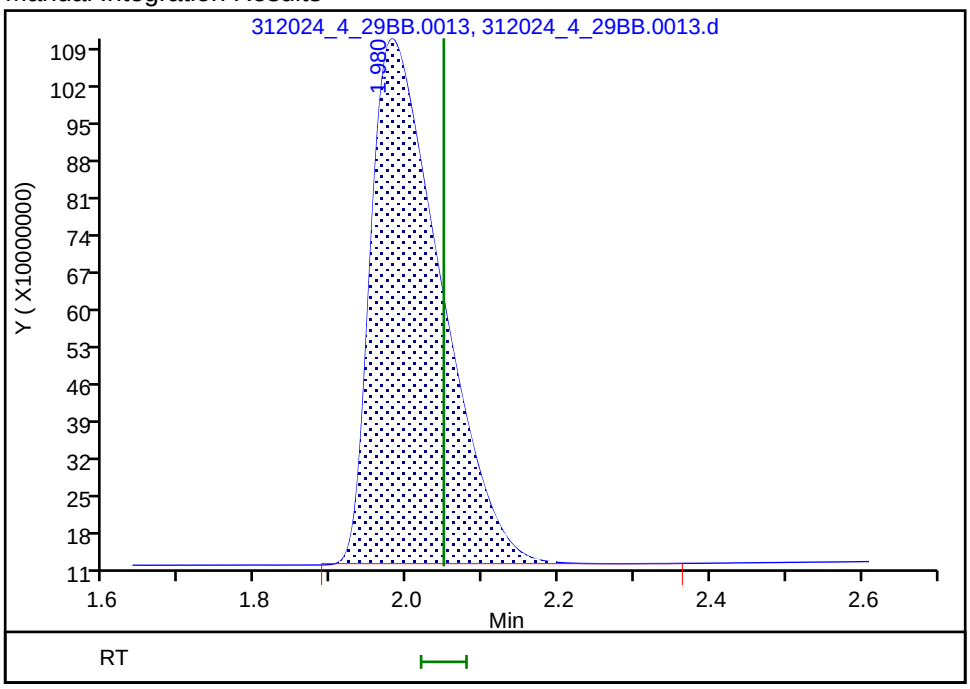
Not Detected
Expected RT: 2.05

Processing Integration Results



Manual Integration Results

RT: 1.98
Height: 986082668
Amount: 314249
Amount Units: ug/l



Reviewer: LXF2, 30-Apr-2024 04:03:43 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Baseline Smoothing

Calibration

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	HEIGHT
RF Rounding:	0

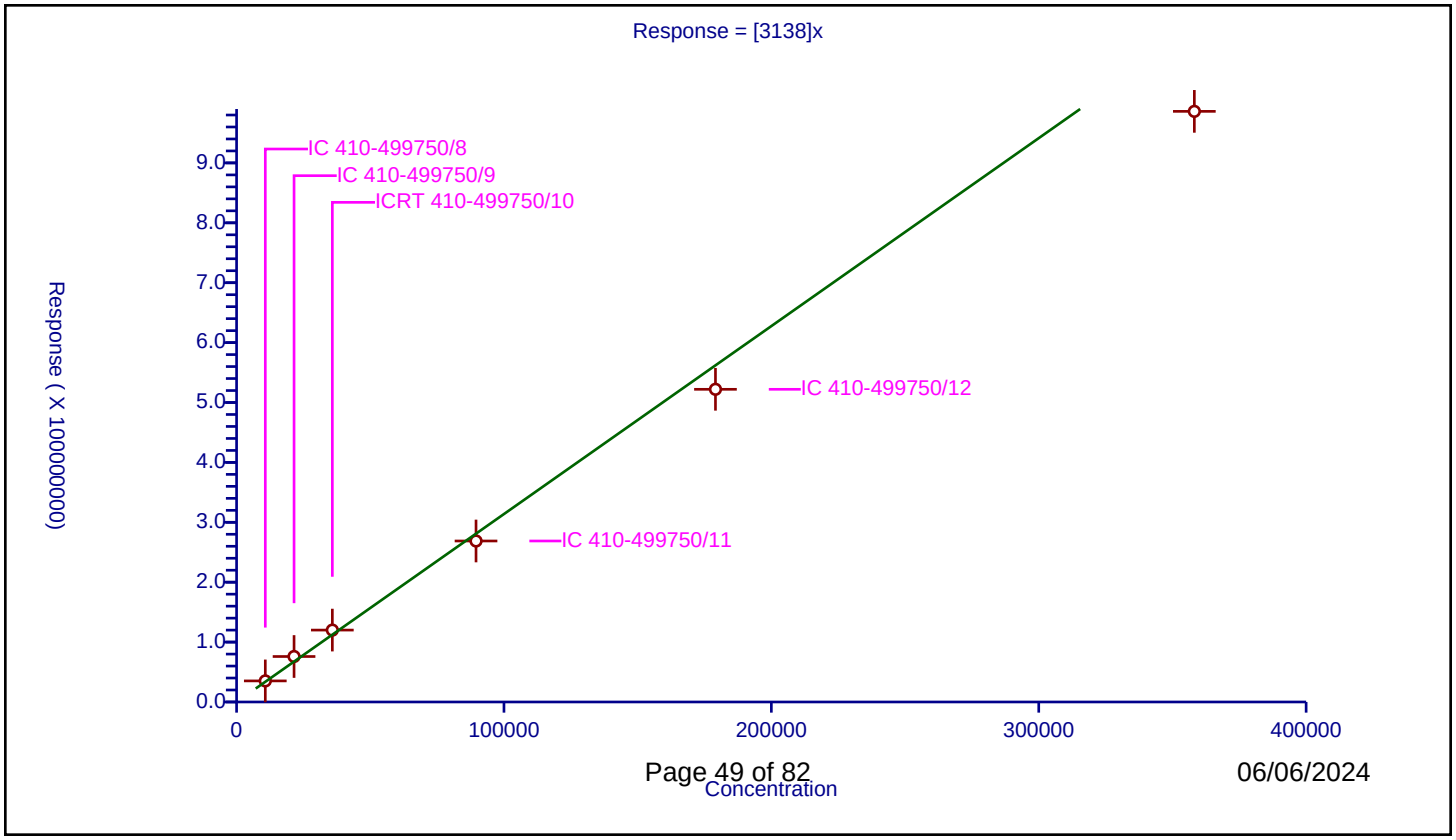
Curve Coefficients

Intercept:	0
Slope:	3138

Error Coefficients

Relative Standard Deviation:	9.4

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 410-499750/8	10746.0	35178219.0			3273.610553	Y
2	IC 410-499750/9	21492.0	75940683.0			3533.439559	Y
3	ICRT 410-499750/10	35820.0	120029586.0			3350.909715	Y
4	IC 410-499750/11	89550.0	268806379.0			3001.746276	Y
5	IC 410-499750/12	179100.0	522045301.0			2914.825801	Y
6	IC 410-499750/13	358200.0	986082668.0			2752.882937	Y



FORM VII
GC VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-173355-1

SDG No.:

Lab Sample ID: ICV 410-499750/16 Calibration Date: 04/29/2024 17:01

Instrument ID: 19506-B Calib Start Date: 04/29/2024 15:57

GC Column: 19809 ID: 1.00(mm) Calib End Date: 04/29/2024 16:37

Lab File ID: 312024_4_29BB.0016.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	3138	3393		37900	35000	8.1	15.0

FORM VII
GC VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-173355-1

SDG No.:

Lab Sample ID: ICV 410-499750/16
Calibration Date: 04/29/2024 17:01

Instrument ID: 19506-B
Calib Start Date: 04/29/2024 15:57

GC Column: 19809 ID: 1.00(mm)
Calib End Date: 04/29/2024 16:37

Lab File ID: 312024_4_29BB.0016.d
Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Carbon dioxide	2.05	2.02	2.08

Eurofins Lancaster Laboratories Environment Testing, LLC

Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19506-B\20240429-112494.b\312024_4_29BB.0016.d
Lims ID: ICV
Client ID:
Sample Type: ICV
Inject. Date: 29-Apr-2024 17:01:00 ALS Bottle#: 0 Worklist Smp#: 16
Purge Vol: 1.000 mL Dil. Factor: 1.0000
Sample Info:
Misc. Info.: 410-0112494-016
Operator ID: Instrument ID: 19506-B
Sublist:

Method: \\chromfs\Lancaster\ChromData\19506-B\20240429-112494.b\RSK_CO2_19506B.m
Limit Group: GCV - RSK175 CO2
Last Update: 30-Apr-2024 04:13:29 Calib Date: 29-Apr-2024 16:37:00
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19506-B\20240429-112494.b\312024_4_29BB.0013.d

Column 1 : ShinCarbon ST Microplacked GC (1.00 mm) Det: 0FIDA
Process Host: CTX1646

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Carbon dioxide	2.048	2.047	0.001	118784440	H 35008	37855	

Reagents:

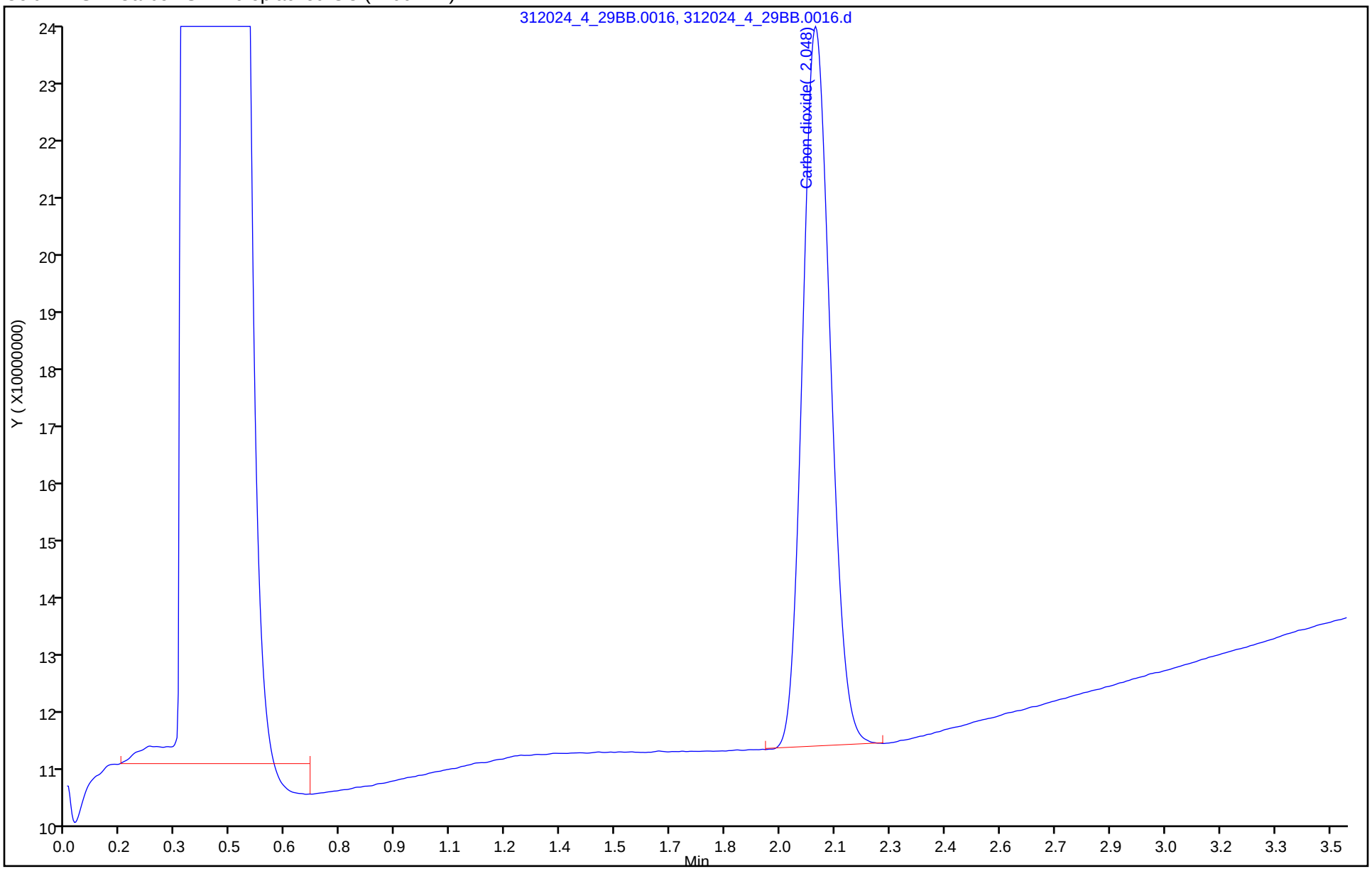
EPH_CO2ICV_00003 Amount Added: 320.00 Units: uL

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19506-B\20240429-112494.b\312024_4_29BB.0016.d

Injection Date:	29-Apr-2024 17:01:00	Instrument ID:	19506-B	Operator ID:	
Lims ID:	ICV			Worklist Smp#:	16
Client ID:					
Purge Vol:	1.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	RSK_CO2_19506B	Limit Group:	GCV - RSK175 CO2		

Column: ShinCarbon ST Microplacked GC (1.00 mm)



FORM VII
GC VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-173355-1

SDG No.:

Lab Sample ID: CCVRT 410-510895/4 Calibration Date: 05/28/2024 10:05

Instrument ID: 19506-B Calib Start Date: 04/29/2024 15:57

GC Column: 19809 ID: 1.00(mm) Calib End Date: 04/29/2024 16:37

Lab File ID: 312024_5_28BB.0004.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	3138	3126		35700	35800	-0.4	15.0

FORM VII
GC VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-173355-1

SDG No.:

Lab Sample ID: CCVRT 410-510895/4
Calibration Date: 05/28/2024 10:05

Instrument ID: 19506-B
Calib Start Date: 04/29/2024 15:57

GC Column: 19809 ID: 1.00(mm)
Calib End Date: 04/29/2024 16:37

Lab File ID: 312024_5_28BB.0004.d
Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Carbon dioxide	2.04	2.01	2.07

Eurofins Lancaster Laboratories Environment Testing, LLC

Target Compound Quantitation Report

Data File:	\\chromfs\Lancaster\ChromData\19506-B\20240528-115108.b\312024_5_28BB.0004.d				
Lims ID:	ccvrt				
Client ID:					
Sample Type:	CCVRT				
Inject. Date:	28-May-2024 10:05:00	ALS Bottle#:	0	Worklist Smp#:	4
Purge Vol:	1.000 mL	Dil. Factor:	1.0000		
Sample Info:					
Misc. Info.:	410-0115108-004				
Operator ID:		Instrument ID:	19506-B		
Sublist:	chrom-RSK_CO2_19506B*sub1				
Method:	\\chromfs\Lancaster\ChromData\19506-B\20240528-115108.b\RSK_CO2_19506B.m				
Limit Group:	GCV - RSK175 CO2				
Last Update:	29-May-2024 03:50:29	Calib Date:	29-Apr-2024 16:37:00		
Integrator:	Genie				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\19506-B\20240429-112494.b\312024_4_29BB.0013.d				
Column 1 :	ShinCarbon ST Microplacked GC (1.00 mm)		Det: 0FIDA		
Process Host:	CTX1680				

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Carbon dioxide	2.040	2.040	0.000	111965567	H 35820	35682	

Reagents:

EPH_CO2MS_00006 Amount Added: 100.00 Units: uL

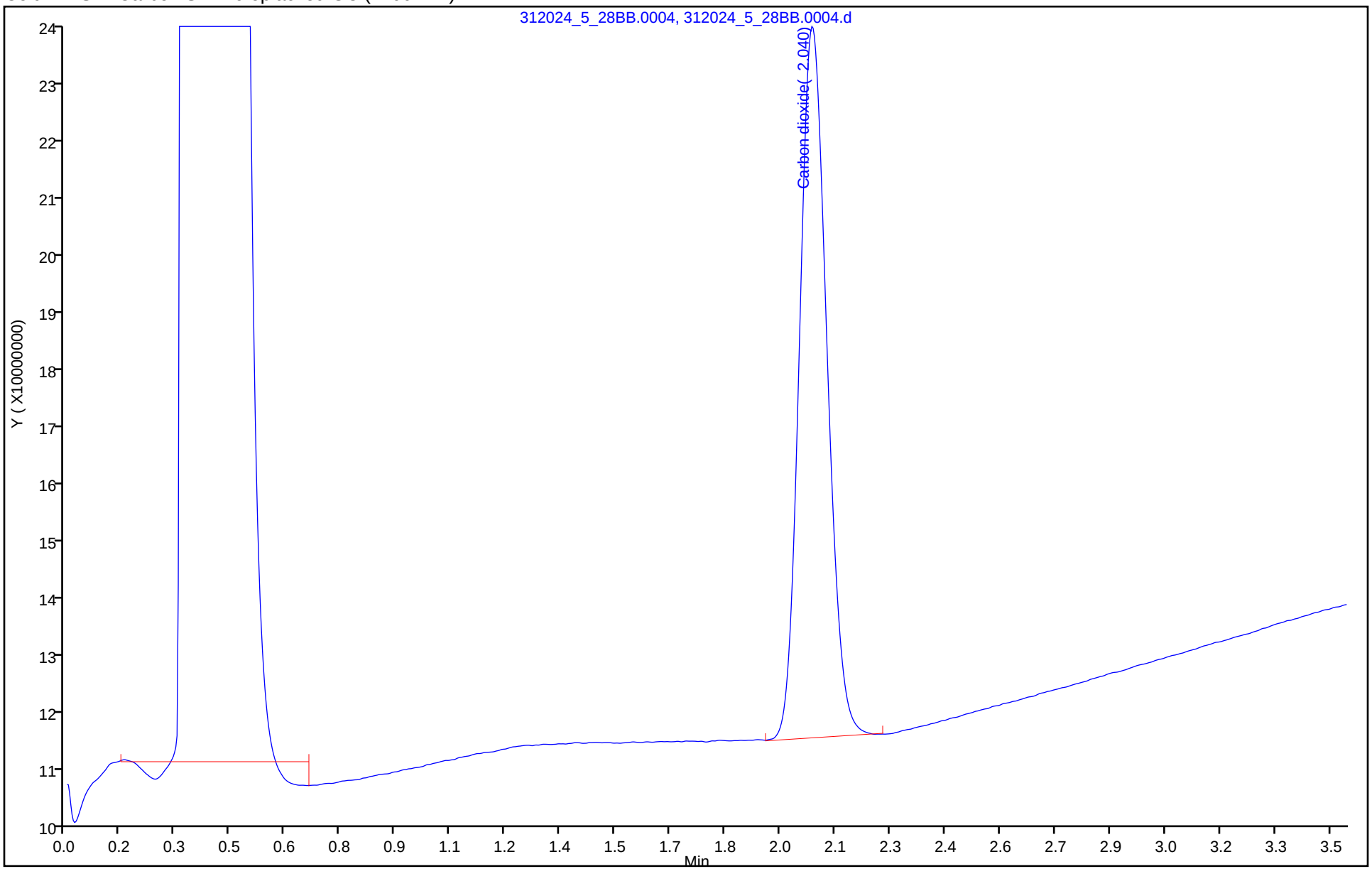
Report Date: 29-May-2024 03:50:29 Chrom Revision: 2.3 20-May-2024 22:00:34

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19506-B\20240528-115108.b\312024_5_28BB.0004.d

Injection Date:	28-May-2024 10:05:00	Instrument ID:	19506-B	Operator ID:	
Lims ID:	ccvrt			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: ShinCarbon ST Microplacked GC (1.00 mm)



FORM VII
GC VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-173355-1

SDG No.:

Lab Sample ID: CCV 410-510895/15 Calibration Date: 05/28/2024 11:51

Instrument ID: 19506-B Calib Start Date: 04/29/2024 15:57

GC Column: 19809 ID: 1.00(mm) Calib End Date: 04/29/2024 16:37

Lab File ID: 312024_5_28BB.0015.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	3138	3038		34700	35800	-3.2	15.0

FORM VII
GC VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-173355-1

SDG No.:

Lab Sample ID: CCV 410-510895/15
Calibration Date: 05/28/2024 11:51

Instrument ID: 19506-B
Calib Start Date: 04/29/2024 15:57

GC Column: 19809 ID: 1.00(mm)
Calib End Date: 04/29/2024 16:37

Lab File ID: 312024_5_28BB.0015.d
Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Carbon dioxide	2.04	2.01	2.07

Eurofins Lancaster Laboratories Environment Testing, LLC

Target Compound Quantitation Report

Data File:	\\chromfs\Lancaster\ChromData\19506-B\20240528-115108.b\312024_5_28BB.0015.d				
Lims ID:	ccv				
Client ID:					
Sample Type:	CCV				
Inject. Date:	28-May-2024 11:51:00	ALS Bottle#:	0	Worklist Smp#:	15
Purge Vol:	1.000 mL	Dil. Factor:	1.0000		
Sample Info:					
Misc. Info.:	410-0115108-015				
Operator ID:		Instrument ID:	19506-B		
Sublist:	chrom-RSK_CO2_19506B*sub1				
Method:	\\chromfs\Lancaster\ChromData\19506-B\20240528-115108.b\RSK_CO2_19506B.m				
Limit Group:	GCV - RSK175 CO2				
Last Update:	29-May-2024 03:50:33	Calib Date:	29-Apr-2024 16:37:00		
Integrator:	Genie				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\19506-B\20240429-112494.b\312024_4_29BB.0013.d				
Column 1 :	ShinCarbon ST Microplacked GC (1.00 mm)		Det: 0FIDA		
Process Host:	CTX1680				

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Carbon dioxide	2.040	2.040	0.000	108838579H	35820	34685	

Reagents:

EPH_CO2MS_00006 Amount Added: 100.00 Units: uL

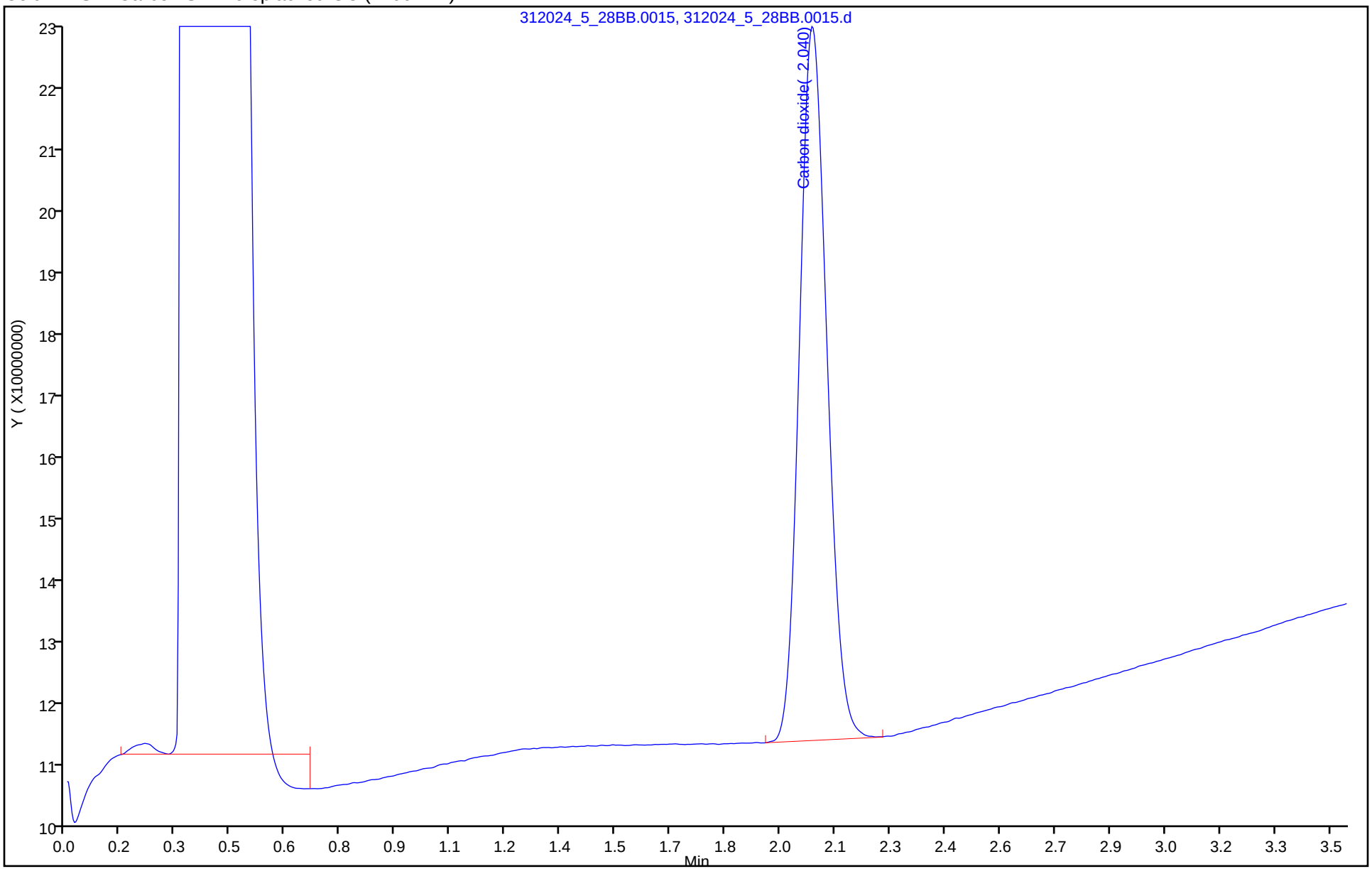
Report Date: 29-May-2024 03:50:33 Chrom Revision: 2.3 20-May-2024 22:00:34

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19506-B\20240528-115108.b\312024_5_28BB.0015.d

Injection Date:	28-May-2024 11:51:00	Instrument ID:	19506-B	Operator ID:	
Lims ID:	ccv			Worklist Smp#:	15
Client ID:					
Purge Vol:	1.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	RSK_CO2_19506B	Limit Group:	GCV - RSK175 CO2		

Column: ShinCarbon ST Microplacked GC (1.00 mm)



FORM VII
GC VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-173355-1

SDG No.:

Lab Sample ID: CCV 410-510895/19 Calibration Date: 05/28/2024 12:28

Instrument ID: 19506-B Calib Start Date: 04/29/2024 15:57

GC Column: 19809 ID: 1.00(mm) Calib End Date: 04/29/2024 16:37

Lab File ID: 312024_5_28BB.0019.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	3138	3063		35000	35800	-2.4	15.0

FORM VII
GC VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-173355-1

SDG No.:

Lab Sample ID: CCV 410-510895/19
Calibration Date: 05/28/2024 12:28

Instrument ID: 19506-B
Calib Start Date: 04/29/2024 15:57

GC Column: 19809 ID: 1.00(mm)
Calib End Date: 04/29/2024 16:37

Lab File ID: 312024_5_28BB.0019.d
Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Carbon dioxide	2.04	2.01	2.07

Eurofins Lancaster Laboratories Environment Testing, LLC

Target Compound Quantitation Report

Data File:	\\chromfs\Lancaster\ChromData\19506-B\20240528-115108.b\312024_5_28BB.0019.d				
Lims ID:	ccv				
Client ID:					
Sample Type:	CCV				
Inject. Date:	28-May-2024 12:28:00	ALS Bottle#:	0	Worklist Smp#:	19
Purge Vol:	1.000 mL	Dil. Factor:	1.0000		
Sample Info:					
Misc. Info.:	410-0115108-019				
Operator ID:		Instrument ID:	19506-B		
Sublist:	chrom-RSK_CO2_19506B*sub1				
Method:	\\chromfs\Lancaster\ChromData\19506-B\20240528-115108.b\RSK_CO2_19506B.m				
Limit Group:	GCV - RSK175 CO2				
Last Update:	29-May-2024 03:50:34	Calib Date:	29-Apr-2024 16:37:00		
Integrator:	Genie				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\19506-B\20240429-112494.b\312024_4_29BB.0013.d				
Column 1 :	ShinCarbon ST Microplacked GC (1.00 mm)		Det: 0FIDA		
Process Host:	CTX1680				

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Carbon dioxide	2.040	2.040	0.000	109708915	H 35820	34962	

Reagents:

EPH_CO2MS_00006 Amount Added: 100.00 Units: uL

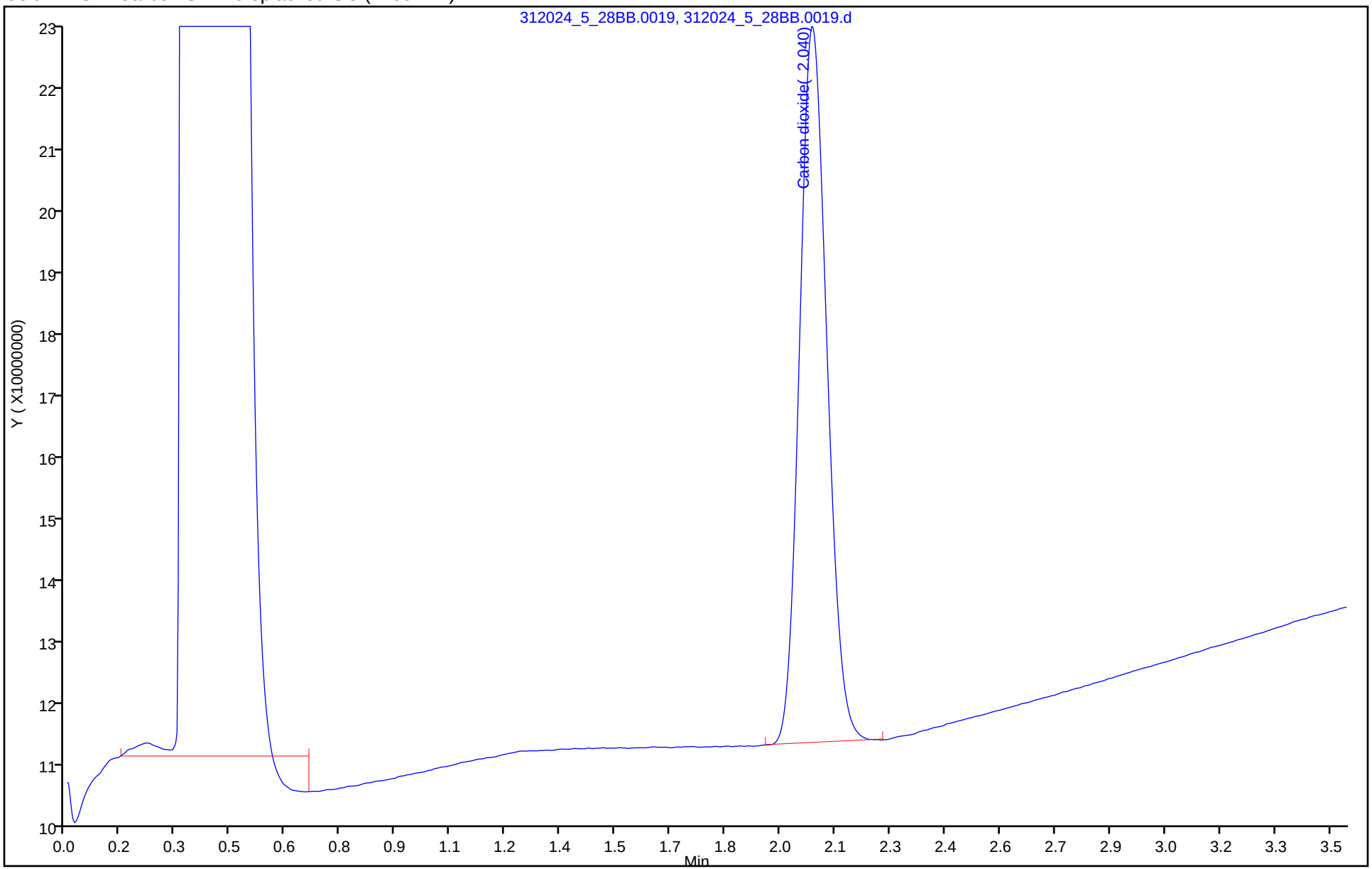
Report Date: 29-May-2024 03:50:34 Chrom Revision: 2.3 20-May-2024 22:00:34

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19506-B\20240528-115108.b\312024_5_28BB.0019.d

Injection Date:	28-May-2024 12:28:00	Instrument ID:	19506-B	Operator ID:	
Lims ID:	ccv			Worklist Smp#:	19
Client ID:					
Purge Vol:	1.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	RSK_CO2_19506B	Limit Group:	GCV - RSK175 CO2		

Column: ShinCarbon ST Microplacked GC (1.00 mm)



FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-173355-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 410-510950/1-A

Matrix: Water Lab File ID: 312024_5_28BB.0005.d

Analysis Method: RSK-175 Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 05/28/2024 10:33

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: 19809 ID: 1(mm)

Purge Volume: Heated Purge: (Y/N) N pH:

% Moisture: % Solids: Level: (low/med) Low

Analysis Batch No.: 510895 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
124-38-9	Carbon dioxide	5600	U M	12000	11000	5600

Eurofins Lancaster Laboratories Environment Testing, LLC

Target Compound Quantitation Report

Data File:	\\chromfs\Lancaster\ChromData\19506-B\20240528-115108.b\312024_5_28BB.0005.d				
Lims ID:	MB 410-510950/1-A				
Client ID:					
Sample Type:	MB				
Inject. Date:	28-May-2024 10:33:00	ALS Bottle#:	0	Worklist Smp#:	5
Purge Vol:	1.000 mL	Dil. Factor:	1.0000		
Sample Info:					
Misc. Info.:	410-0115108-005				
Operator ID:		Instrument ID:	19506-B		
Method:	\\chromfs\Lancaster\ChromData\19506-B\20240528-115108.b\RSK_CO2_19506B.m				
Limit Group:	GCV - RSK175 CO2				
Last Update:	29-May-2024 03:50:29	Calib Date:	29-Apr-2024 16:37:00		
Integrator:	Genie				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\19506-B\20240429-112494.b\312024_4_29BB.0013.d				
Column 1 :	ShinCarbon ST Microplacked GC (1.00 mm)		Det: 0FIDA		
Process Host:	CTX1680				
First Level Reviewer: LXF2		Date:	29-May-2024 03:49:52		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Carbon dioxide	2.050	2.040	0.010	445963H		142.1	Ma

QC Flag Legend

Processing Flags

H - Response Measured by Height

Review Flags

M - Manually Integrated

a - User Assigned ID

Report Date: 29-May-2024 03:50:29 Chrom Revision: 2.3 20-May-2024 22:00:34

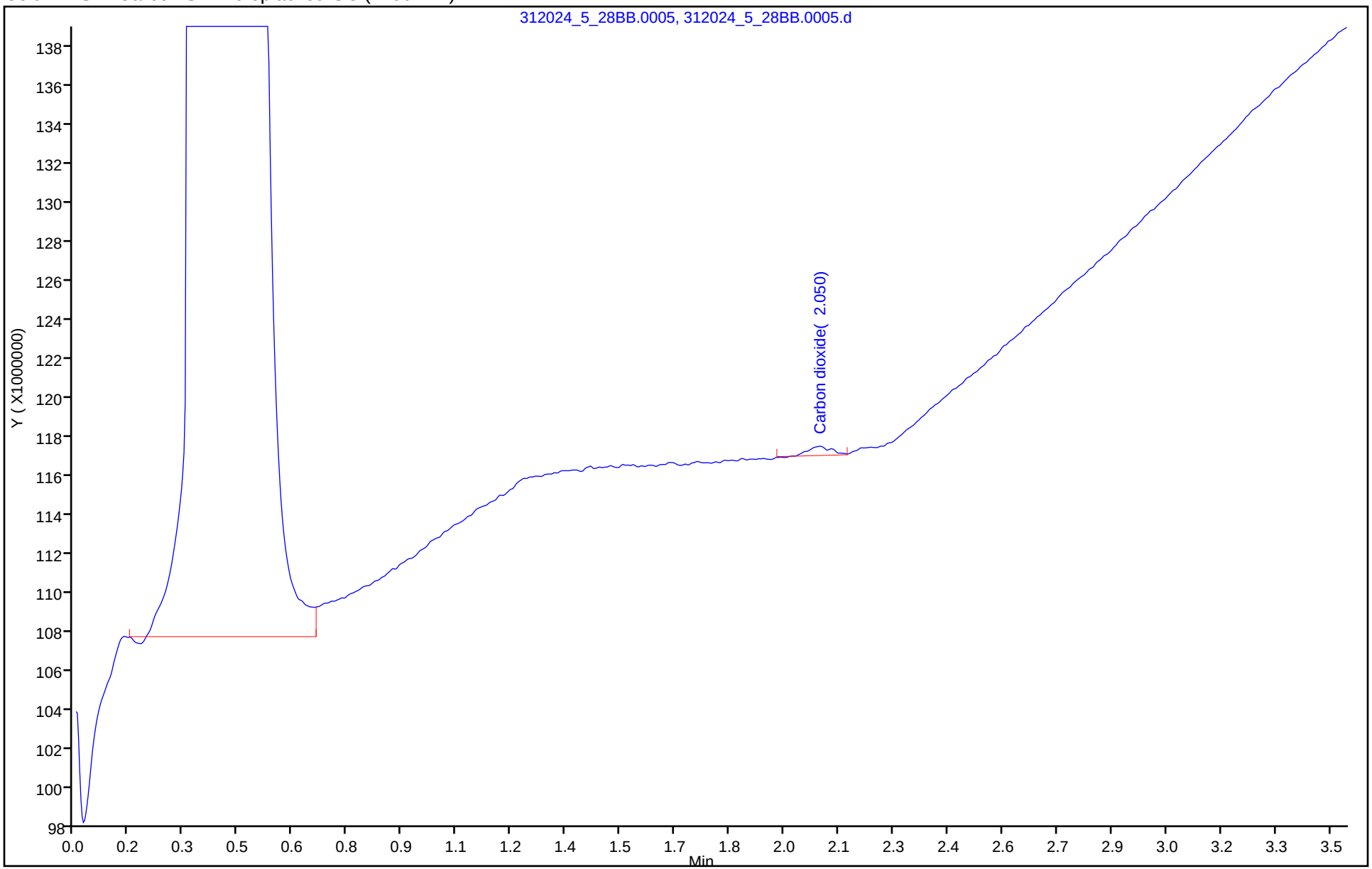
01333849

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19506-B\20240528-115108.b\312024_5_28BB.0005.d

Injection Date:	28-May-2024 10:33:00	Instrument ID:	19506-B	Operator ID:	
Lims ID:	MB 410-510950/1-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: ShinCarbon ST Microplacked GC (1.00 mm)



Eurofins Lancaster Laboratories Environment Testing, LLC

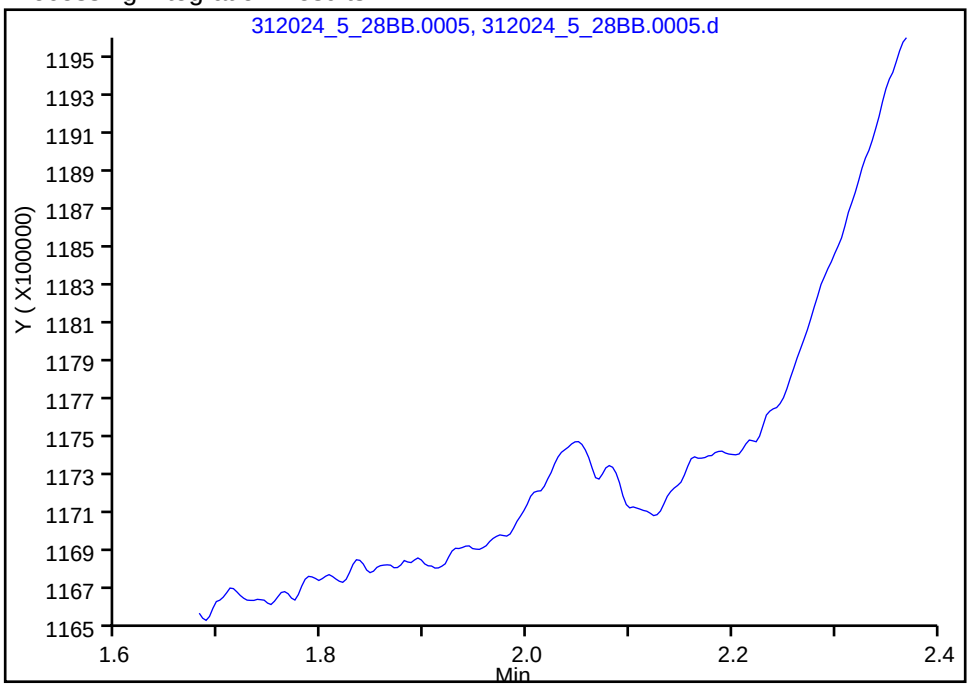
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Injection Date: 28-May-2024 10:33:00 Instrument ID: 19506-B
Lims ID: MB 410-510950/1-A
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 5
Purge Vol: 1.000 mL Dil. Factor: 1.0000
Method: RSK_CO2_19506B Limit Group: GCV - RSK175 CO2
Column: ShinCarbon ST Microplacked GC (1.00 mm) Detector 0FIDA

1 Carbon dioxide, CAS: 124-38-9

Signal: 1

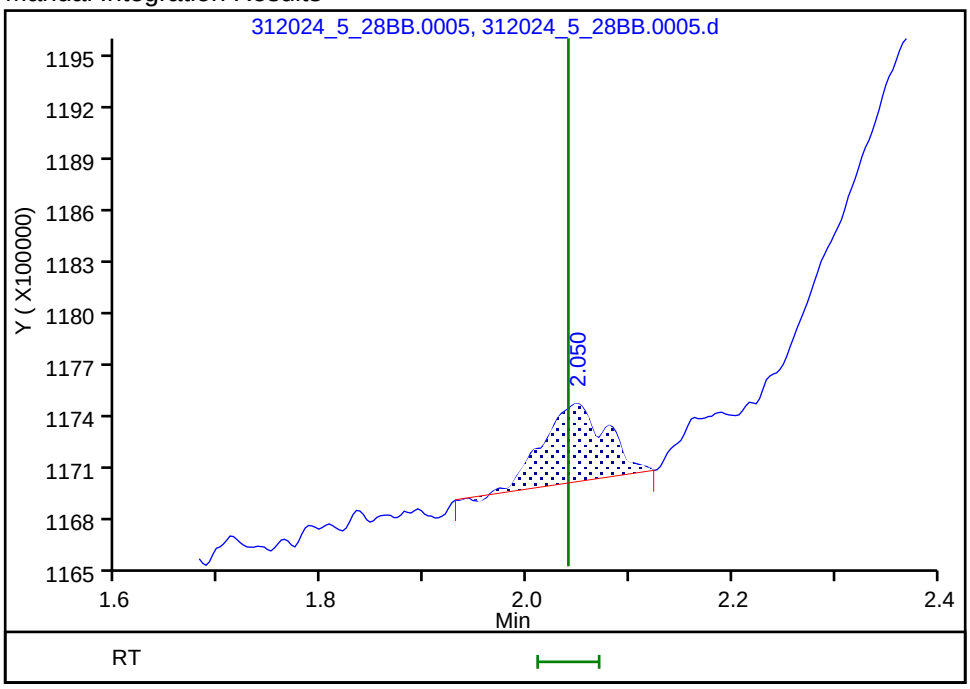
Not Detected
Expected RT: 2.04

Processing Integration Results



Manual Integration Results

RT: 2.05
Height: 445963
Amount: 142.1214
Amount Units: ug/l



Reviewer: LXF2, 29-May-2024 03:49:51 -04:00:00 (UTC)
Audit Action: Manually Integrated/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.: 410-173355-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 410-510950/2-A

Matrix: Water Lab File ID: 312024_5_28BB.0006.d

Analysis Method: RSK-175 Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 05/28/2024 10:40

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: 19809 ID: 1(mm)

Purge Volume: Heated Purge: (Y/N) N pH:

% Moisture: % Solids: Level: (low/med) Low

Analysis Batch No.: 510895 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
124-38-9	Carbon dioxide	35500		12000	11000	5600

Eurofins Lancaster Laboratories Environment Testing, LLC

Target Compound Quantitation Report

Data File:	\\chromfs\Lancaster\ChromData\19506-B\20240528-115108.b\312024_5_28BB.0006.d				
Lims ID:	LCS 410-510950/2-A				
Client ID:					
Sample Type:	LCS				
Inject. Date:	28-May-2024 10:40:00	ALS Bottle#:	0	Worklist Smp#:	6
Purge Vol:	1.000 mL	Dil. Factor:	1.0000		
Sample Info:					
Misc. Info.:	410-0115108-006				
Operator ID:		Instrument ID:	19506-B		
Method:	\\chromfs\Lancaster\ChromData\19506-B\20240528-115108.b\RSK_CO2_19506B.m				
Limit Group:	GCV - RSK175 CO2				
Last Update:	29-May-2024 03:50:29	Calib Date:	29-Apr-2024 16:37:00		
Integrator:	Genie				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\19506-B\20240429-112494.b\312024_4_29BB.0013.d				
Column 1 :	ShinCarbon ST Microplacked GC (1.00 mm)		Det: 0FIDA		
Process Host:	CTX1680				

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Carbon dioxide	2.040	2.040	0.000	111470958	H 35820	35524	

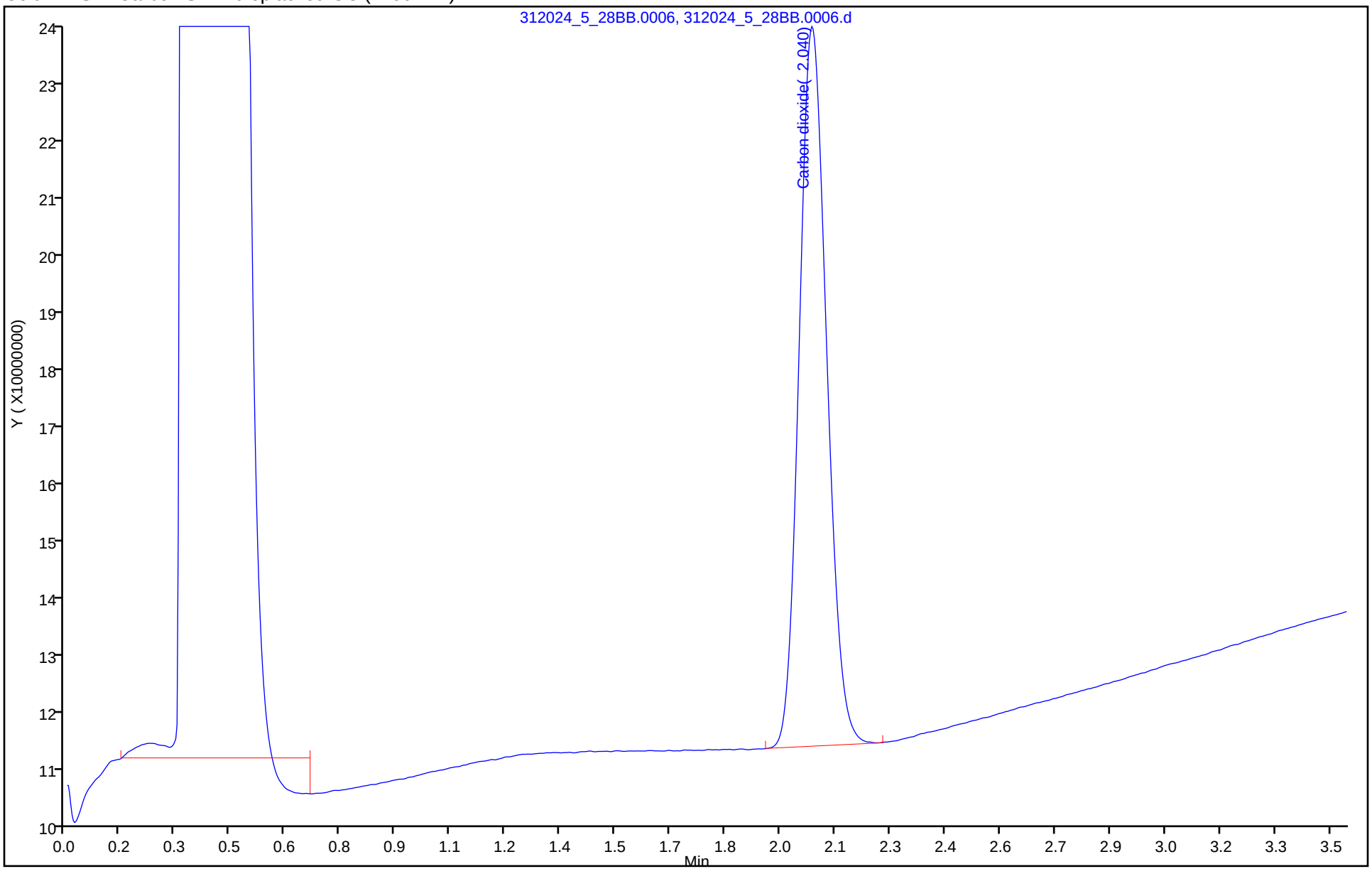
Report Date: 29-May-2024 03:50:30 Chrom Revision: 2.3 20-May-2024 22:00:34

Eurofins Lancaster Laboratories Environment Testing, LLC

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Injection Date:	28-May-2024 10:40:00	Instrument ID:	19506-B	Operator ID:	
Lims ID:	LCS 410-510950/2-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: ShinCarbon ST Microplacked GC (1.00 mm)



FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-173355-1

SDG No.:

Client Sample ID: Lab Sample ID: LCSD 410-510950/3-A

Matrix: Water Lab File ID: 312024_5_28BB.0007.d

Analysis Method: RSK-175 Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 05/28/2024 10:49

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: 19809 ID: 1(mm)

Purge Volume: Heated Purge: (Y/N) N pH:

% Moisture: % Solids: Level: (low/med) Low

Analysis Batch No.: 510895 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
124-38-9	Carbon dioxide	34600		12000	11000	5600

Eurofins Lancaster Laboratories Environment Testing, LLC

Target Compound Quantitation Report

Data File:	\\chromfs\Lancaster\ChromData\19506-B\20240528-115108.b\312024_5_28BB.0007.d				
Lims ID:	LCSD 410-510950/3-A				
Client ID:					
Sample Type:	LCSD				
Inject. Date:	28-May-2024 10:49:00	ALS Bottle#:	0	Worklist Smp#:	7
Purge Vol:	1.000 mL	Dil. Factor:	1.0000		
Sample Info:					
Misc. Info.:	410-0115108-007				
Operator ID:		Instrument ID:	19506-B		
Method:	\\chromfs\Lancaster\ChromData\19506-B\20240528-115108.b\RSK_CO2_19506B.m				
Limit Group:	GCV - RSK175 CO2				
Last Update:	29-May-2024 03:50:29	Calib Date:	29-Apr-2024 16:37:00		
Integrator:	Genie				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\19506-B\20240429-112494.b\312024_4_29BB.0013.d				
Column 1 :	ShinCarbon ST Microplacked GC (1.00 mm)		Det: 0FIDA		
Process Host:	CTX1680				

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Carbon dioxide	2.039	2.040	-0.001	108445451	H 35820	34560	

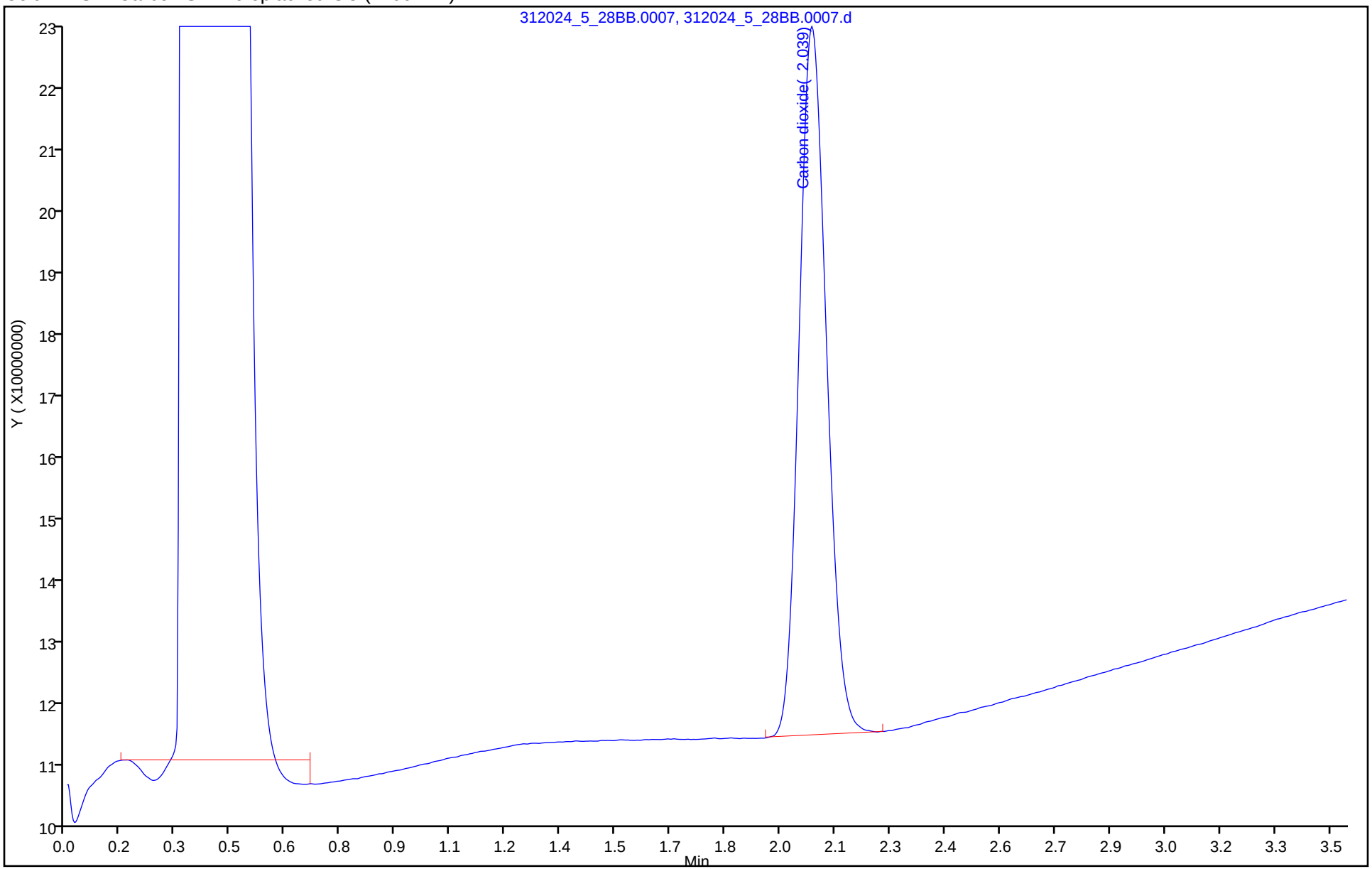
Report Date: 29-May-2024 03:50:30 Chrom Revision: 2.3 20-May-2024 22:00:34

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19506-B\20240528-115108.b\312024_5_28BB.0007.d

Injection Date:	28-May-2024 10:49:00	Instrument ID:	19506-B	Operator ID:	
Lims ID:	LCSD 410-510950/3-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: ShinCarbon ST Microplacked GC (1.00 mm)



GC VOA ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-173355-1

SDG No.:

Instrument ID: 19506-B Start Date: 04/29/2024 15:50

Analysis Batch Number: 499750 End Date: 04/29/2024 18:35

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
PIBLK 410-499750/7		04/29/2024 15:50	1		19809 1(mm)
IC 410-499750/8		04/29/2024 15:57	1	312024_4_29BB.0008.d	19809 1(mm)
IC 410-499750/9		04/29/2024 16:06	1	312024_4_29BB.0009.d	19809 1(mm)
ICRT 410-499750/10		04/29/2024 16:13	1	312024_4_29BB.0010.d	19809 1(mm)
IC 410-499750/11		04/29/2024 16:21	1	312024_4_29BB.0011.d	19809 1(mm)
IC 410-499750/12		04/29/2024 16:29	1	312024_4_29BB.0012.d	19809 1(mm)
IC 410-499750/13		04/29/2024 16:37	1	312024_4_29BB.0013.d	19809 1(mm)
PIBLK 410-499750/14		04/29/2024 16:45	1		19809 1(mm)
ICVL 410-499750/15		04/29/2024 16:53	1		19809 1(mm)
ICV 410-499750/16		04/29/2024 17:01	1	312024_4_29BB.0016.d	19809 1(mm)
CCV 410-499750/17		04/29/2024 17:09	1		19809 1(mm)
ZZZZZ		04/29/2024 17:17	1		19809 1(mm)
ZZZZZ		04/29/2024 17:24	1		19809 1(mm)
ZZZZZ		04/29/2024 17:32	1		19809 1(mm)
CCV 410-499750/28		04/29/2024 18:35	1		19809 1(mm)

GC VOA ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-173355-1

SDG No.:

Instrument ID: 19506-B Start Date: 05/28/2024 10:05

Analysis Batch Number: 510895 End Date: 05/28/2024 12:28

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCVRT 410-510895/4		05/28/2024 10:05	1	312024_5_28BB.0004.d	19809 1(mm)
MB 410-510950/1-A		05/28/2024 10:33	1	312024_5_28BB.0005.d	19809 1(mm)
LCS 410-510950/2-A		05/28/2024 10:40	1	312024_5_28BB.0006.d	19809 1(mm)
LCSD 410-510950/3-A		05/28/2024 10:49	1	312024_5_28BB.0007.d	19809 1(mm)
ZZZZZ		05/28/2024 10:56	1		19809 1(mm)
ZZZZZ		05/28/2024 11:04	1		19809 1(mm)
ZZZZZ		05/28/2024 11:12	1		19809 1(mm)
ZZZZZ		05/28/2024 11:20	1		19809 1(mm)
ZZZZZ		05/28/2024 11:28	1		19809 1(mm)
410-173355-1	50WW14_052124	05/28/2024 11:35	1	312024_5_28BB.0013.d	19809 1(mm)
410-173355-2	50WW13_052124	05/28/2024 11:43	1	312024_5_28BB.0014.d	19809 1(mm)
CCV 410-510895/15		05/28/2024 11:51	1	312024_5_28BB.0015.d	19809 1(mm)
410-173355-3	50WW11_052124	05/28/2024 12:04	1	312024_5_28BB.0016.d	19809 1(mm)
ZZZZZ		05/28/2024 12:12	1		19809 1(mm)
ZZZZZ		05/28/2024 12:20	1		19809 1(mm)
CCV 410-510895/19		05/28/2024 12:28	1	312024_5_28BB.0019.d	19809 1(mm)

GC VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-173355-1

SDG No.:

Batch Number: 499750 Batch Start Date: 04/29/24 15:50 Batch Analyst: Kennedy, Johanna C

Batch Method: RSK-175 Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	InitialAmount	FinalAmount	EPH_CO2ICV 00003	EPH_CO2MS 00006		
IC 410-499750/8		RSK-175			5 mL	5 mL		30 uL		
IC 410-499750/9		RSK-175			5 mL	5 mL		60 uL		
ICRT 410-499750/10		RSK-175			5 mL	5 mL		100 uL		
IC 410-499750/11		RSK-175			5 mL	5 mL		250 uL		
IC 410-499750/12		RSK-175			5 mL	5 mL		500 uL		
IC 410-499750/13		RSK-175			5 mL	5 mL		1000 uL		
ICV 410-499750/16		RSK-175			5 mL	5 mL	320 uL			

Batch Notes	
Henry Law Calculation Spreadsheet	yes

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.: 410-173355-1

SDG No.:

Batch Number: 510950 Batch Start Date: 05/28/24 10:08 Batch Analyst: Omorogbe, Malachi

Batch Method: RSK-175 Batch End Date: 05/28/24 10:44

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	Initial pH	InitialAmount	FinalAmount	Headspace	EPH_CO2MS 00006	AnalysisComment
MB 410-510950/1		RSK-175, RSK-175				5 mL	5 mL			
LCS 410-510950/2		RSK-175, RSK-175				5 mL	5 mL		0.1 mL	
LCSD 410-510950/3		RSK-175, RSK-175				5 mL	5 mL		0.1 mL	
410-173355-A-1	50WW14_052124	RSK-175, RSK-175	Water	T	7 SU	5 mL	5 mL	No		
410-173355-A-2	50WW13_052124	RSK-175, RSK-175	Water	T	6 SU	5 mL	5 mL	No		ph 6
410-173355-A-3	50WW11_052124	RSK-175, RSK-175	Water	T	7 SU	5 mL	5 mL	No		

Batch Notes	
Pipette/Syringe/Dispenser ID	7105
pH Indicator ID	10BDH5131

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

410-173355 Chain of Custody

10450 Stancliff Rd, Ste 210
Houston, TX 77099
T: +1 281 530 5656
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Subcontract Chain of Custody

SAMPLING STATE: Colorado **COC ID:** 25769

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:	Luis.Aguilar
Address:	10450 Stancliff Rd, Ste 210
Phone:	+1 281 530 5656
Email:	luis.aguilar@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:	HS24051300
TSR:	Sonia West

	LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	COLLECT DATE
	ANALYSIS REQUESTED			DUE DATE
1.	**HS24051300-05**	**SOWW14_052124**	**Groundwater**	**21 May 2024 07:15**
	RSK175 CO2; LHAAP; DoD Level IV, LHAAP EQUIS EDD			06 Jun 2024
2.	**HS24051300-06**	**SOWW13_052124**	**Groundwater**	**21 May 2024 08:00**
	RSK175 CO2; LHAAP; DoD Level IV, LHAAP EQUIS EDD			06 Jun 2024
3.	**HS24051300-07**	**SOWW11_052124**	**Groundwater**	**21 May 2024 08:50**
	RSK175 CO2; LHAAP; DoD Level IV, LHAAP EQUIS EDD			06 Jun 2024

Comments: Please analyze for the analysis listed above.
Send report to the emails shown above.

QC Level: DOD IV (DoD Data Package)

Relinquished By: AM Date/Time: 5/23/24 18:00

Received By: Date/Time: 5/24/24 0945

Cooler ID(s): Temperature(s):

R: 3.8

Login Sample Receipt Checklist

Client: ALS Group USA, Corp

Job Number: 410-173355-1

Login Number: 173355
List Number: 1
Creator: Arroyo, Haley

List Source: Eurofins Lancaster Laboratories Environment Testing, LLC

Question	Answer	Comment
The cooler's custody seal is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature acceptable,where thermal pres is required(</=6C, not frozen).	True	
Cooler Temperature is recorded.	True	
WV:Container Temp acceptable,where thermal pres is required (</=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.	False	Refer to Job Narrative for details.
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	

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right solutions.
right partner.

WorkOrder: HS24051490

LHAAP-50

Bhate Environmental Associates, Inc.

Marcia Olive
445 Union Blvd Ste 129
Lakewood CO 80228

24-Jun-2024

WorkOrder: HS24051490

ALS Environmental
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Table of Contents

HS24051490 LHAAP50 COVER PAGE
- CoverPage
- HS24051490 LHAAP50 Final
  - CoverLetter
  - Sample Summary
  - CaseNarrative
  - 50WW09_052224
  - 50WW08_052224
  - 50WW23_052224
  - 50WW12_052224
  - 50WW12_052224_a
  - 50WW06_052224
  - 50WW06_052224_a
  - Trip Blank
  - Dates Report
  - QC
  - Acronyms
  - Certifications
  - SampleReceiptCheckList
  - COC
  - HS24051490 E2400588 Perch Level II Report
  - HS24051490 Eurofin Lab J173670-1 UDS Level 2 Report Final Report

Table of Contents (continued)

HS24051490-MSVOA-SW8260
- Form 1 - Sample Results
- Form 2 - Surrogates
- Form 3A - MS/MSD
- Form 3B - LCS/LCSD
- Form 4 - MB Assoc
- Form 5 - Tune
- Form 6 - ICAL
- Form 6I - ICV
- Form 7 - CCV
- Form 8 - ISTD
- Run Log
- Raw Data VOA9_467989 U240529
- Raw Data VOA9_468007 U240529
- Raw Data VOA9_468115 U240530

HS24051490-GCSEMI-RSK-175
- Form 1 - Sample Results
- Form 3B - LCS/LCSD
- Form 4 - MB Assoc
- Form 6 - ICAL
- Form 6I - ICV
- Form 7 - CCV
- Run Log
- Raw Data FID_4_461015 240301
- Raw Data FID_4_468189 240531
- Raw Data FID_4_468476 240604

HS24051490 Wetchem 9056_anions_W

HS24051490 Wetchem TOC_W 5310B ICAL - A

HS24051490 Wetchem TOC_W 5310B ICAL - B

HS24051490 Wetchem TOC_W 5310B ICAL TABLE - A

HS24051490 Wetchem TOC_W 5310B ICAL TABLE - B

HS24051490 Wetchem TOC_W 5310B INJECT - A

HS24051490 Wetchem TOC_W 5310B INJECT - B

HS24051490 Wetchem TOC_W 5310B INJECT TABLE - A

HS24051490 Wetchem TOC_W 5310B INJECT TABLE - B

HS24051490 LHAAP50 COVER PAGE

ALS WO# HS24051490

HS24051490 LHAAP50 Final

ALS WO# HS24051490

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June 12, 2024

Marcia Olive
Bhate Environmental Associates, Inc.
445 Union Blvd Ste 129
Lakewood, CO 80228

Work Order: **HS24051490**

Laboratory Results for: **LHAAP-50**

Dear Marcia Olive,

ALS Environmental received 8 sample(s) on May 24, 2024 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: DAYNA.FISHER
Luis.Aguilar

ALS Houston, US Date: 12-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP-50
Work Order: HS24051490

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS24051490-01	50WW09_052224	Water		22-May-2024 07:15	24-May-2024 09:50	☐
HS24051490-02	50WW08_052224	Water		22-May-2024 07:55	24-May-2024 09:50	☐
HS24051490-03	50WW23_052224	Water		22-May-2024 08:40	24-May-2024 09:50	☐
HS24051490-04	50WW12_052224	Water		22-May-2024 09:25	24-May-2024 09:50	☐
HS24051490-05	50WW12_052224_a	Water		22-May-2024 09:25	24-May-2024 09:50	☐
HS24051490-06	50WW06_052224	Water		22-May-2024 10:20	24-May-2024 09:50	☐
HS24051490-07	50WW06_052224_a	Water		22-May-2024 10:20	24-May-2024 09:50	☐
HS24051490-08	Trip Blank	Water	CG-111123-468	24-May-2024 09:50	24-May-2024 09:50	☐

Client: Bhate Environmental Associates, Inc. **CASE NARRATIVE**
Project: LHAAP-50
Work Order: HS24051490

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 Comments: Nitrate containers received outside of 48hr hold time.

GC Semivolatiles by Method RSK-175

Batch ID: R468189,R468476

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

GCMS Volatiles by Method SW8260

Batch ID: R468115

Sample ID: 50WW08_052224 (HS24051490-02)

- Lowest possible dilution due to high concentrations of target analytes.

Sample ID: 50WW12_052224 (HS24051490-04)

- Lowest possible dilution due to high concentrations of target analytes.

Sample ID: 50WW12_052224_a (HS24051490-05)

- Lowest possible dilution due to high concentrations of target analytes.

Sample ID: 50WW12_052224_a (HS24051490-05MS)

- Surrogates failed outside control limits high. This was confirmed by MSD.

Sample ID: 50WW12_052224_a (HS24051490-05MSD)

- MSD recovered outside control limits for Trichloroethene

Batch ID: R468007

Sample ID: 50WW23_052224 (HS24051490-03MS)

- Surrogate failed outside control limits high. This was confirmed by MSD.

WetChemistry by Method SM5310B

Batch ID: R468251

Sample ID: 50WW12_052224_a (HS24051490-05MS)

- 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.

Batch ID: R468250

Sample ID: HS24051089-09MS

- MS is for an unrelated sample

Client: Bhate Environmental Associates, Inc. **CASE NARRATIVE**
Project: LHAAP-50
Work Order: HS24051490

WetChemistry by Method SW9056

Batch ID: R467693

Sample ID: 50WW06_052224 (HS24051490-06)

- Sample holding time expired prior to sample receipt. It was analyzed at the request of the client. Results should be considered estimated.

Sample ID: 50WW06_052224_a (HS24051490-07)

- Sample holding time expired prior to sample receipt. It was analyzed at the request of the client. Results should be considered estimated.

Sample ID: 50WW12_052224 (HS24051490-04)

- Sample holding time expired prior to sample receipt. It was analyzed at the request of the client. Results should be considered estimated.

Sample ID: 50WW12_052224_a (HS24051490-05)

- Sample holding time expired prior to sample receipt. It was analyzed at the request of the client. Results should be considered estimated.

Sample ID: HS24051535-01MS

- MS and MSD are for an unrelated sample (Sulfate)

ALS Houston, US Date: 12-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP-50
Sample ID: 50WW09_052224
Collection Date: 22-May-2024 07:15

ANALYTICAL REPORT
WorkOrder:HS24051490
Lab ID:HS24051490-01
Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C		**Method:SW8260**						Analyst: TS
1,1-Dichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	30-May-2024 17:51
1,2-Dichloroethane	1.0	U	0.20	1.0	1.0	ug/L	1	30-May-2024 17:51
cis-1,2-Dichloroethene	**0.64**	J	**0.20**	**1.0**	**1.0**	**ug/L**	1	30-May-2024 17:51
Tetrachloroethene	1.0	U	0.30	1.0	1.0	ug/L	1	30-May-2024 17:51
Trichloroethene	**4.7**		**0.20**	**1.0**	**1.0**	**ug/L**	1	30-May-2024 17:51
Vinyl chloride	1.0	U	0.20	1.0	1.0	ug/L	1	30-May-2024 17:51
Surr: 1,2-Dichloroethane-d4	*117*			**0**	*81-118*	*%REC*	*1*	*30-May-2024 17:51*
Surr: 4-Bromofluorobenzene	*113*			**0**	*85-114*	*%REC*	*1*	*30-May-2024 17:51*
Surr: Dibromofluoromethane	*114*			**0**	*80-119*	*%REC*	*1*	*30-May-2024 17:51*
Surr: Toluene-d8	*112*			**0**	*89-112*	*%REC*	*1*	*30-May-2024 17:51*
SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)		**Method:NA**						Analyst: SUB
Subcontract Analysis	See Attached		0	0		NA	1	12-Jun-2024 14:27

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

ALS Houston, US Date: 12-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP-50
Sample ID: 50WW08_052224
Collection Date: 22-May-2024 07:55

ANALYTICAL REPORT
WorkOrder:HS24051490
Lab ID:HS24051490-02
Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C		**Method:SW8260**						Analyst: TS
1,1-Dichloroethene	10	U	2.0	10	10	ug/L	10	30-May-2024 22:57
1,2-Dichloroethane	10	U	2.0	10	10	ug/L	10	30-May-2024 22:57
cis-1,2-Dichloroethene	**93**		**2.0**	**10**	**10**	**ug/L**	10	30-May-2024 22:57
Tetrachloroethene	10	U	3.0	10	10	ug/L	10	30-May-2024 22:57
Trichloroethene	**820**		**2.0**	**10**	**10**	**ug/L**	10	30-May-2024 22:57
Vinyl chloride	10	U	2.0	10	10	ug/L	10	30-May-2024 22:57
Surr: 1,2-Dichloroethane-d4	*116*			**0**	*81-118*	*%REC*	*10*	*30-May-2024 22:57*
Surr: 4-Bromofluorobenzene	*107*			**0**	*85-114*	*%REC*	*10*	*30-May-2024 22:57*
Surr: Dibromofluoromethane	*112*			**0**	*80-119*	*%REC*	*10*	*30-May-2024 22:57*
Surr: Toluene-d8	*111*			**0**	*89-112*	*%REC*	*10*	*30-May-2024 22:57*
SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)		**Method:NA**						Analyst: SUB
Subcontract Analysis	See Attached		0	0		NA	1	12-Jun-2024 14:27

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

ALS Houston, US Date: 12-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP-50
Sample ID: 50WW23_052224
Collection Date: 22-May-2024 08:40

ANALYTICAL REPORT
WorkOrder:HS24051490
Lab ID:HS24051490-03
Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C		**Method:SW8260**						Analyst: TS
1,1-Dichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	30-May-2024 05:38
1,2-Dichloroethane	1.0	U	0.20	1.0	1.0	ug/L	1	30-May-2024 05:38
cis-1,2-Dichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	30-May-2024 05:38
Tetrachloroethene	1.0	U	0.30	1.0	1.0	ug/L	1	30-May-2024 05:38
Trichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	30-May-2024 05:38
Vinyl chloride	1.0	U	0.20	1.0	1.0	ug/L	1	30-May-2024 05:38
Surr: 1,2-Dichloroethane-d4	*118*			**0**	*81-118*	*%REC*	*1*	*30-May-2024 05:38*
Surr: 4-Bromofluorobenzene	*112*			**0**	*85-114*	*%REC*	*1*	*30-May-2024 05:38*
Surr: Dibromofluoromethane	*116*			**0**	*80-119*	*%REC*	*1*	*30-May-2024 05:38*
Surr: Toluene-d8	*110*			**0**	*89-112*	*%REC*	*1*	*30-May-2024 05:38*
SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)		**Method:NA**						Analyst: SUB
Subcontract Analysis	See Attached		0	0		NA	1	12-Jun-2024 14:27

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

ALS Houston, US Date: 12-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP-50
Sample ID: 50WW12_052224
Collection Date: 22-May-2024 09:25

ANALYTICAL REPORT
WorkOrder:HS24051490
Lab ID:HS24051490-04
Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C		**Method:SW8260**						Analyst: TS
1,1-Dichloroethene	**22**		**2.0**	**10**	**10**	**ug/L**	10	30-May-2024 23:21
1,2-Dichloroethane	**15**		**2.0**	**10**	**10**	**ug/L**	10	30-May-2024 23:21
cis-1,2-Dichloroethene	10	U	2.0	10	10	ug/L	10	30-May-2024 23:21
Tetrachloroethene	10	U	3.0	10	10	ug/L	10	30-May-2024 23:21
Trichloroethene	**1,200**		**2.0**	**10**	**10**	**ug/L**	10	30-May-2024 23:21
Vinyl chloride	10	U	2.0	10	10	ug/L	10	30-May-2024 23:21
Surr: 1,2-Dichloroethane-d4	*117*			**0**	*81-118*	*%REC*	*10*	*30-May-2024 23:21*
Surr: 4-Bromofluorobenzene	*107*			**0**	*85-114*	*%REC*	*10*	*30-May-2024 23:21*
Surr: Dibromofluoromethane	*114*			**0**	*80-119*	*%REC*	*10*	*30-May-2024 23:21*
Surr: Toluene-d8	*110*			**0**	*89-112*	*%REC*	*10*	*30-May-2024 23:21*
DISSOLVED GASES BY RSK-175		**Method:RSK-175**						Analyst: RG
Ethane	0.000500	U	0.000144	0.000500	0.00100	mg/L	1	03-Jun-2024 15:04
Ethene	0.000500	U	0.000234	0.000500	0.00100	mg/L	1	03-Jun-2024 15:04
Methane	**4.32**		**0.0214**	**0.100**	**0.100**	**mg/L**	200	04-Jun-2024 09:36
TOTAL ORGANIC CARBON - SM5310B-2011		**Method:SM5310B**						Analyst: JAC
Organic Carbon, Total	**9.72**		**0.500**	**1.00**	**1.00**	**mg/L**	1	01-Jun-2024 01:23
ANIONS BY SW9056A		**Method:SW9056**						Analyst: TH
Chloride	**1,070**		**4.00**	**5.00**	**10.0**	**mg/L**	20	25-May-2024 00:26
Nitrogen, Nitrate (As N)	**0.137**	H	**0.0300**	**0.0500**	**0.100**	**mg/L**	1	25-May-2024 00:21
Sulfate	**620**		**4.00**	**5.00**	**10.0**	**mg/L**	20	25-May-2024 00:26
SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)		**Method:NA**						Analyst: SUB
Subcontract Analysis	See Attached		0	0		NA	1	12-Jun-2024 14:27
SUBCONTRACT ANALYSIS - RSK		**Method:NA**						Analyst: SUB
Subcontract Analysis	See Attached		0	0		NA	1	03-Jun-2024 08:15

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

ALS Houston, US Date: 12-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP-50
Sample ID: 50WW12_052224_a
Collection Date: 22-May-2024 09:25

ANALYTICAL REPORT
WorkOrder:HS24051490
Lab ID:HS24051490-05
Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C		**Method:SW8260**						Analyst: TS
1,1-Dichloroethene	**18**		**2.0**	**10**	**10**	**ug/L**	10	30-May-2024 23:43
1,2-Dichloroethane	**14**		**2.0**	**10**	**10**	**ug/L**	10	30-May-2024 23:43
cis-1,2-Dichloroethene	10	U	2.0	10	10	ug/L	10	30-May-2024 23:43
Tetrachloroethene	10	U	3.0	10	10	ug/L	10	30-May-2024 23:43
Trichloroethene	**1,100**		**2.0**	**10**	**10**	**ug/L**	10	30-May-2024 23:43
Vinyl chloride	10	U	2.0	10	10	ug/L	10	30-May-2024 23:43
Surr: 1,2-Dichloroethane-d4	*118*			**0**	*81-118*	*%REC*	*10*	*30-May-2024 23:43*
Surr: 4-Bromofluorobenzene	*111*			**0**	*85-114*	*%REC*	*10*	*30-May-2024 23:43*
Surr: Dibromofluoromethane	*116*			**0**	*80-119*	*%REC*	*10*	*30-May-2024 23:43*
Surr: Toluene-d8	*111*			**0**	*89-112*	*%REC*	*10*	*30-May-2024 23:43*
DISSOLVED GASES BY RSK-175		**Method:RSK-175**						Analyst: RG
Ethane	0.000500	U	0.000144	0.000500	0.00100	mg/L	1	31-May-2024 11:40
Ethene	0.000500	U	0.000234	0.000500	0.00100	mg/L	1	31-May-2024 11:40
Methane	**1.44**		**0.0214**	**0.100**	**0.100**	**mg/L**	200	31-May-2024 11:55
TOTAL ORGANIC CARBON - SM5310B-2011		**Method:SM5310B**						Analyst: JAC
Organic Carbon, Total	**9.44**		**0.500**	**1.00**	**1.00**	**mg/L**	1	01-Jun-2024 03:22
ANIONS BY SW9056A		**Method:SW9056**						Analyst: TH
Chloride	**1,430**		**10.0**	**12.5**	**25.0**	**mg/L**	50	25-May-2024 00:38
Nitrogen, Nitrate (As N)	**0.231**	H	**0.0600**	**0.100**	**0.200**	**mg/L**	2	25-May-2024 00:32
Sulfate	**847**		**10.0**	**12.5**	**25.0**	**mg/L**	50	25-May-2024 00:38
SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)		**Method:NA**						Analyst: SUB
Subcontract Analysis	See Attached		0	0		NA	1	12-Jun-2024 14:27
SUBCONTRACT ANALYSIS - RSK		**Method:NA**						Analyst: SUB
Subcontract Analysis	See Attached		0	0		NA	1	03-Jun-2024 08:15

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

ALS Houston, US Date: 12-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP-50
Sample ID: 50WW06_052224
Collection Date: 22-May-2024 10:20

ANALYTICAL REPORT
WorkOrder:HS24051490
Lab ID:HS24051490-06
Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C		**Method:SW8260**						Analyst: TS
1,1-Dichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	30-May-2024 18:12
1,2-Dichloroethane	1.0	U	0.20	1.0	1.0	ug/L	1	30-May-2024 18:12
cis-1,2-Dichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	30-May-2024 18:12
Tetrachloroethene	1.0	U	0.30	1.0	1.0	ug/L	1	30-May-2024 18:12
Trichloroethene	**11**		**0.20**	**1.0**	**1.0**	**ug/L**	1	30-May-2024 18:12
Vinyl chloride	1.0	U	0.20	1.0	1.0	ug/L	1	30-May-2024 18:12
Surr: 1,2-Dichloroethane-d4	*115*			**0**	*81-118*	*%REC*	*1*	*30-May-2024 18:12*
Surr: 4-Bromofluorobenzene	*109*			**0**	*85-114*	*%REC*	*1*	*30-May-2024 18:12*
Surr: Dibromofluoromethane	*110*			**0**	*80-119*	*%REC*	*1*	*30-May-2024 18:12*
Surr: Toluene-d8	*111*			**0**	*89-112*	*%REC*	*1*	*30-May-2024 18:12*
DISSOLVED GASES BY RSK-175		**Method:RSK-175**						Analyst: RG
Ethane	0.000500	U	0.000144	0.000500	0.00100	mg/L	1	31-May-2024 10:01
Ethene	0.000500	U	0.000234	0.000500	0.00100	mg/L	1	31-May-2024 10:01
Methane	**0.00208**		**0.000107**	**0.000500**	**0.000500**	**mg/L**	1	31-May-2024 10:01
TOTAL ORGANIC CARBON - SM5310B-2011		**Method:SM5310B**						Analyst: JAC
Organic Carbon, Total	**3.71**		**0.500**	**1.00**	**1.00**	**mg/L**	1	01-Jun-2024 03:46
ANIONS BY SW9056A		**Method:SW9056**						Analyst: TH
Chloride	**3.10**		**0.200**	**0.250**	**0.500**	**mg/L**	1	25-May-2024 01:07
Nitrogen, Nitrate (As N)	**0.108**	H	**0.0300**	**0.0500**	**0.100**	**mg/L**	1	25-May-2024 01:07
Sulfate	**11.2**		**0.200**	**0.250**	**0.500**	**mg/L**	1	25-May-2024 01:07
SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)		**Method:NA**						Analyst: SUB
Subcontract Analysis	See Attached		0	0		NA	1	12-Jun-2024 14:27
SUBCONTRACT ANALYSIS - RSK		**Method:NA**						Analyst: SUB
Subcontract Analysis	See Attached		0	0		NA	1	03-Jun-2024 08:15

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

ALS Houston, US Date: 12-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP-50
Sample ID: 50WW06_052224_a
Collection Date: 22-May-2024 10:20

ANALYTICAL REPORT
WorkOrder:HS24051490
Lab ID:HS24051490-07
Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C		**Method:SW8260**						Analyst: TS
1,1-Dichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	30-May-2024 18:34
1,2-Dichloroethane	1.0	U	0.20	1.0	1.0	ug/L	1	30-May-2024 18:34
cis-1,2-Dichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	30-May-2024 18:34
Tetrachloroethene	1.0	U	0.30	1.0	1.0	ug/L	1	30-May-2024 18:34
Trichloroethene	**11**		**0.20**	**1.0**	**1.0**	**ug/L**	1	30-May-2024 18:34
Vinyl chloride	1.0	U	0.20	1.0	1.0	ug/L	1	30-May-2024 18:34
Surr: 1,2-Dichloroethane-d4	*118*			**0**	*81-118*	*%REC*	*1*	*30-May-2024 18:34*
Surr: 4-Bromofluorobenzene	*109*			**0**	*85-114*	*%REC*	*1*	*30-May-2024 18:34*
Surr: Dibromofluoromethane	*113*			**0**	*80-119*	*%REC*	*1*	*30-May-2024 18:34*
Surr: Toluene-d8	*111*			**0**	*89-112*	*%REC*	*1*	*30-May-2024 18:34*
DISSOLVED GASES BY RSK-175		**Method:RSK-175**						Analyst: RG
Ethane	0.000500	U	0.000144	0.000500	0.00100	mg/L	1	31-May-2024 11:32
Ethene	0.000500	U	0.000234	0.000500	0.00100	mg/L	1	31-May-2024 11:32
Methane	**0.00186**		**0.000107**	**0.000500**	**0.000500**	**mg/L**	1	31-May-2024 11:32
TOTAL ORGANIC CARBON - SM5310B-2011		**Method:SM5310B**						Analyst: JAC
Organic Carbon, Total	**4.30**		**0.500**	**1.00**	**1.00**	**mg/L**	1	01-Jun-2024 03:58
ANIONS BY SW9056A		**Method:SW9056**						Analyst: TH
Chloride	**3.35**		**0.200**	**0.250**	**0.500**	**mg/L**	1	25-May-2024 01:13
Nitrogen, Nitrate (As N)	**0.110**	H	**0.0300**	**0.0500**	**0.100**	**mg/L**	1	25-May-2024 01:13
Sulfate	**11.4**		**0.200**	**0.250**	**0.500**	**mg/L**	1	25-May-2024 01:13
SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)		**Method:NA**						Analyst: SUB
Subcontract Analysis	See Attached		0	0		NA	1	12-Jun-2024 14:27
SUBCONTRACT ANALYSIS - RSK		**Method:NA**						Analyst: SUB
Subcontract Analysis	See Attached		0	0		NA	1	03-Jun-2024 08:15

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

ALS Houston, US Date: 12-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP-50
Sample ID: Trip Blank
Collection Date: 24-May-2024 09:50

ANALYTICAL REPORT
WorkOrder:HS24051490
Lab ID:HS24051490-08
Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C	**Method:SW8260**							Analyst: TS
1,1-Dichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	30-May-2024 17:29
1,2-Dichloroethane	1.0	U	0.20	1.0	1.0	ug/L	1	30-May-2024 17:29
cis-1,2-Dichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	30-May-2024 17:29
Tetrachloroethene	1.0	U	0.30	1.0	1.0	ug/L	1	30-May-2024 17:29
Trichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	30-May-2024 17:29
Vinyl chloride	1.0	U	0.20	1.0	1.0	ug/L	1	30-May-2024 17:29
Surr: 1,2-Dichloroethane-d4	*116*			**0**	*81-118*	*%REC*	*1*	*30-May-2024 17:29*
Surr: 4-Bromofluorobenzene	*111*			**0**	*85-114*	*%REC*	*1*	*30-May-2024 17:29*
Surr: Dibromofluoromethane	*113*			**0**	*80-119*	*%REC*	*1*	*30-May-2024 17:29*
Surr: Toluene-d8	*111*			**0**	*89-112*	*%REC*	*1*	*30-May-2024 17:29*

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

Client: Bhate Environmental Associates, Inc.
Project: LHAAP-50
WorkOrder: HS24051490

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: R467693 (0)	**Test Name :** ANIONS BY SW9056A				**Matrix:** Water	
HS24051490-04	50WW12_052224	22 May 2024 09:25			25 May 2024 00:26	20
HS24051490-04	50WW12_052224	22 May 2024 09:25			25 May 2024 00:21	1
HS24051490-05	50WW12_052224_a	22 May 2024 09:25			25 May 2024 00:38	50
HS24051490-05	50WW12_052224_a	22 May 2024 09:25			25 May 2024 00:32	2
HS24051490-06	50WW06_052224	22 May 2024 10:20			25 May 2024 01:07	1
HS24051490-07	50WW06_052224_a	22 May 2024 10:20			25 May 2024 01:13	1
Batch ID: R468007 (0)	**Test Name :** VOLATILES ORGANICS BY METHOD 8260C				**Matrix:** Water	
HS24051490-03	50WW23_052224	22 May 2024 08:40			30 May 2024 05:38	1
Batch ID: R468115 (0)	**Test Name :** VOLATILES ORGANICS BY METHOD 8260C				**Matrix:** Water	
HS24051490-01	50WW09_052224	22 May 2024 07:15			30 May 2024 17:51	1
HS24051490-02	50WW08_052224	22 May 2024 07:55			30 May 2024 22:57	10
HS24051490-04	50WW12_052224	22 May 2024 09:25			30 May 2024 23:21	10
HS24051490-05	50WW12_052224_a	22 May 2024 09:25			30 May 2024 23:43	10
HS24051490-06	50WW06_052224	22 May 2024 10:20			30 May 2024 18:12	1
HS24051490-07	50WW06_052224_a	22 May 2024 10:20			30 May 2024 18:34	1
HS24051490-08	Trip Blank	24 May 2024 09:50			30 May 2024 17:29	1
Batch ID: R468189 (0)	**Test Name :** DISSOLVED GASES BY RSK-175				**Matrix:** Water	
HS24051490-05	50WW12_052224_a	22 May 2024 09:25			31 May 2024 11:55	200
HS24051490-05	50WW12_052224_a	22 May 2024 09:25			31 May 2024 11:40	1
HS24051490-06	50WW06_052224	22 May 2024 10:20			31 May 2024 10:01	1
HS24051490-07	50WW06_052224_a	22 May 2024 10:20			31 May 2024 11:32	1
Batch ID: R468250 (0)	**Test Name :** TOTAL ORGANIC CARBON - SM5310B-2011				**Matrix:** Water	
HS24051490-04	50WW12_052224	22 May 2024 09:25			01 Jun 2024 01:23	1
Batch ID: R468251 (0)	**Test Name :** TOTAL ORGANIC CARBON - SM5310B-2011				**Matrix:** Water	
HS24051490-05	50WW12_052224_a	22 May 2024 09:25			01 Jun 2024 03:22	1
HS24051490-06	50WW06_052224	22 May 2024 10:20			01 Jun 2024 03:46	1
HS24051490-07	50WW06_052224_a	22 May 2024 10:20			01 Jun 2024 03:58	1
Batch ID: R468276 (0)	**Test Name :** SUBCONTRACT ANALYSIS - RSK				**Matrix:** Water	
HS24051490-04	50WW12_052224	22 May 2024 09:25			03 Jun 2024 08:15	1
HS24051490-05	50WW12_052224_a	22 May 2024 09:25			03 Jun 2024 08:15	1
HS24051490-06	50WW06_052224	22 May 2024 10:20			03 Jun 2024 08:15	1
HS24051490-07	50WW06_052224_a	22 May 2024 10:20			03 Jun 2024 08:15	1
Batch ID: R468476 (0)	**Test Name :** DISSOLVED GASES BY RSK-175				**Matrix:** Water	
HS24051490-04	50WW12_052224	22 May 2024 09:25			04 Jun 2024 09:36	200
HS24051490-04	50WW12_052224	22 May 2024 09:25			03 Jun 2024 15:04	1

ALS Houston, US Date: 12-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP-50
WorkOrder: HS24051490

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: R469201 (0)	**Test Name :** SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)				**Matrix:** Water	
HS24051490-01	50WW09_052224	22 May 2024 07:15			12 Jun 2024 14:27	1
HS24051490-02	50WW08_052224	22 May 2024 07:55			12 Jun 2024 14:27	1
HS24051490-03	50WW23_052224	22 May 2024 08:40			12 Jun 2024 14:27	1
HS24051490-04	50WW12_052224	22 May 2024 09:25			12 Jun 2024 14:27	1
HS24051490-05	50WW12_052224_a	22 May 2024 09:25			12 Jun 2024 14:27	1
HS24051490-06	50WW06_052224	22 May 2024 10:20			12 Jun 2024 14:27	1
HS24051490-07	50WW06_052224_a	22 May 2024 10:20			12 Jun 2024 14:27	1

ALS Houston, US Date: 12-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP-50
WorkOrder: HS24051490

QC BATCH REPORT

Batch ID: R468189 (0) **Instrument: FID-4** **Method: DISSOLVED GASES BY RSK-175**

MBLK Sample ID: **MBLK-240531** Units: **mg/L** Analysis Date: **31-May-2024 09:17**
Client ID: Run ID: **FID-4_468189** SeqNo: **8041232** 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-240531** Units: **mg/L** Analysis Date: **31-May-2024 09:30**
Client ID: Run ID: **FID-4_468189** SeqNo: **8041233** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Ethane	0.0153	0.00100	0.01804	0	84.9	75 - 125				
Ethene	0.0146	0.00100	0.0168	0	86.6	75 - 125				
Methane	0.00908	0.000500	0.009647	0	94.1	75 - 125				

LCSD Sample ID: **LCSD-240531** Units: **mg/L** Analysis Date: **31-May-2024 09:38**
Client ID: Run ID: **FID-4_468189** SeqNo: **8041234** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Ethane	0.0148	0.00100	0.01804	0	81.9	75 - 125	0.01532	3.64	30	
Ethene	0.0139	0.00100	0.0168	0	82.7	75 - 125	0.01455	4.68	30	
Methane	0.00869	0.000500	0.009647	0	90.1	75 - 125	0.009079	4.4	30	

The following samples were analyzed in this batch: HS24051490-05 HS24051490-06 HS24051490-07

Client: Bhate Environmental Associates, Inc.
Project: LHAAP-50
WorkOrder: HS24051490

QC BATCH REPORT

Batch ID: R468476 (0) **Instrument: FID-4** **Method: DISSOLVED GASES BY RSK-175**

MBLK Sample ID: **MBLK-240603** Units: **mg/L** Analysis Date: **03-Jun-2024 08:17**
Client ID: Run ID: **FID-4_468476** SeqNo: **8046712** 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-240603** Units: **mg/L** Analysis Date: **03-Jun-2024 08:35**
Client ID: Run ID: **FID-4_468476** SeqNo: **8046713** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Ethane	0.0156	0.00100	0.01804	0	86.7	75 - 125				
Ethene	0.0137	0.00100	0.0168	0	81.6	75 - 125				
Methane	0.00844	0.000500	0.009647	0	87.5	75 - 125				

LCSD Sample ID: **LCSD-240603** Units: **mg/L** Analysis Date: **03-Jun-2024 08:53**
Client ID: Run ID: **FID-4_468476** SeqNo: **8046714** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Ethane	0.0156	0.00100	0.01804	0	86.2	75 - 125	0.01565	0.555	30	
Ethene	0.0138	0.00100	0.0168	0	81.9	75 - 125	0.01371	0.332	30	
Methane	0.00862	0.000500	0.009647	0	89.4	75 - 125	0.008438	2.15	30	

The following samples were analyzed in this batch: HS24051490-04

ALS Houston, US Date: 12-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP-50
WorkOrder: HS24051490

QC BATCH REPORT

Batch ID: R468007 (0) **Instrument: VOA9** **Method: VOLATILES ORGANICS BY METHOD 8260C**

MBLK Sample ID: **VBLKW-240529** Units: **ug/L** Analysis Date: **30-May-2024 04:55**
Client ID: Run ID: **VOA9_468007** SeqNo: **8037237** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
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
Tetrachloroethene	1.0	1.0								U
Trichloroethene	1.0	1.0								U
Vinyl chloride	1.0	1.0								U
Surr: 1,2-Dichloroethane-d4	*58.25*	*35*	*50*	*0*	*117*	*81 - 118*				
Surr: 4-Bromofluorobenzene	*54.55*	*35*	*50*	*0*	*109*	*85 - 114*				
Surr: Dibromofluoromethane	*56.36*	*35*	*50*	*0*	*113*	*80 - 119*				
Surr: Toluene-d8	*55.78*	*35*	*50*	*0*	*112*	*89 - 112*				

LCS Sample ID: **VLCSW-240529** Units: **ug/L** Analysis Date: **30-May-2024 03:50**
Client ID: Run ID: **VOA9_468007** SeqNo: **8037235** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1-Dichloroethene	18.5	1.0	20	0	92.5	71 - 131				
1,2-Dichloroethane	19.96	1.0	20	0	99.8	73 - 128				
cis-1,2-Dichloroethene	17.09	1.0	20	0	85.4	78 - 123				
Tetrachloroethene	18.99	1.0	20	0	95.0	74 - 129				
Trichloroethene	17.9	1.0	20	0	89.5	79 - 123				
Vinyl chloride	19.53	1.0	20	0	97.7	58 - 137				
Surr: 1,2-Dichloroethane-d4	*58.95*	*35*	*50*	*0*	*118*	*81 - 118*				
Surr: 4-Bromofluorobenzene	*55.58*	*35*	*50*	*0*	*111*	*85 - 114*				
Surr: Dibromofluoromethane	*58.13*	*35*	*50*	*0*	*116*	*80 - 119*				
Surr: Toluene-d8	*55.54*	*35*	*50*	*0*	*111*	*89 - 112*				

Client: Bhate Environmental Associates, Inc.
Project: LHAAP-50
WorkOrder: HS24051490

QC BATCH REPORT

Batch ID: R468007 (0) **Instrument:** VOA9 **Method:** VOLATILES ORGANICS BY METHOD 8260C

MS Sample ID: **HS24051490-03MS** Units: **ug/L** Analysis Date: **30-May-2024 05:59**
Client ID: **50WW23_052224** Run ID: **VOA9_468007** SeqNo: **8037239** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
1,1-Dichloroethene	19.08	1.0	20	0	95.4	71 - 131				
1,2-Dichloroethane	19.69	1.0	20	0	98.5	73 - 128				
cis-1,2-Dichloroethene	16.82	1.0	20	0	84.1	78 - 123				
Tetrachloroethene	19.24	1.0	20	0	96.2	74 - 129				
Trichloroethene	18.02	1.0	20	0	90.1	79 - 123				
Vinyl chloride	20.01	1.0	20	0	100	58 - 137				
Surr: 1,2-Dichloroethane-d4	*57.99*	*35*	*50*	*0*	*116*	*81 - 118*				
Surr: 4-Bromofluorobenzene	*56.47*	*35*	*50*	*0*	*113*	*85 - 114*				
Surr: Dibromofluoromethane	*59.03*	*35*	*50*	*0*	*118*	*80 - 119*				
Surr: Toluene-d8	*56.63*	*35*	*50*	*0*	*113*	*89 - 112*				S

MSD Sample ID: **HS24051490-03MSD** Units: **ug/L** Analysis Date: **30-May-2024 06:21**
Client ID: **50WW23_052224** Run ID: **VOA9_468007** SeqNo: **8037240** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
1,1-Dichloroethene	18.56	1.0	20	0	92.8	71 - 131	19.08	2.78	20	
1,2-Dichloroethane	19.3	1.0	20	0	96.5	73 - 128	19.69	2.02	20	
cis-1,2-Dichloroethene	16.78	1.0	20	0	83.9	78 - 123	16.82	0.223	20	
Tetrachloroethene	19.15	1.0	20	0	95.8	74 - 129	19.24	0.45	20	
Trichloroethene	17.95	1.0	20	0	89.7	79 - 123	18.02	0.374	20	
Vinyl chloride	19.68	1.0	20	0	98.4	58 - 137	20.01	1.65	20	
Surr: 1,2-Dichloroethane-d4	*57.17*	*35*	*50*	*0*	*114*	*81 - 118*	*57.99*	*1.41*	*20*	
Surr: 4-Bromofluorobenzene	*56.42*	*35*	*50*	*0*	*113*	*85 - 114*	*56.47*	*0.0822*	*20*	
Surr: Dibromofluoromethane	*57.9*	*35*	*50*	*0*	*116*	*80 - 119*	*59.03*	*1.95*	*20*	
Surr: Toluene-d8	*57.32*	*35*	*50*	*0*	*115*	*89 - 112*	*56.63*	*1.21*	*20*	S

The following samples were analyzed in this batch: HS24051490-03

ALS Houston, US Date: 12-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP-50
WorkOrder: HS24051490

QC BATCH REPORT

Batch ID: R468115 (0) **Instrument: VOA9** **Method: VOLATILES ORGANICS BY METHOD 8260C**

MBLK Sample ID: **VBLKW-240530** Units: **ug/L** Analysis Date: **30-May-2024 16:25**
Client ID: Run ID: **VOA9_468115** SeqNo: **8040018** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
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
Tetrachloroethene	1.0	1.0								U
Trichloroethene	1.0	1.0								U
Vinyl chloride	1.0	1.0								U
Surr: 1,2-Dichloroethane-d4	*58.14*	*35*	*50*	*0*	*116*	*81 - 118*				
Surr: 4-Bromofluorobenzene	*56.36*	*35*	*50*	*0*	*113*	*85 - 114*				
Surr: Dibromofluoromethane	*55.81*	*35*	*50*	*0*	*112*	*80 - 119*				
Surr: Toluene-d8	*55.97*	*35*	*50*	*0*	*112*	*89 - 112*				

LCS Sample ID: **VLCSW-240530** Units: **ug/L** Analysis Date: **30-May-2024 15:19**
Client ID: Run ID: **VOA9_468115** SeqNo: **8040017** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1-Dichloroethene	18.85	1.0	20	0	94.2	71 - 131				
1,2-Dichloroethane	19.87	1.0	20	0	99.3	73 - 128				
cis-1,2-Dichloroethene	17.96	1.0	20	0	89.8	78 - 123				
Tetrachloroethene	19.75	1.0	20	0	98.7	74 - 129				
Trichloroethene	18.26	1.0	20	0	91.3	79 - 123				
Vinyl chloride	20.37	1.0	20	0	102	58 - 137				
Surr: 1,2-Dichloroethane-d4	*55.45*	*35*	*50*	*0*	*111*	*81 - 118*				
Surr: 4-Bromofluorobenzene	*56.26*	*35*	*50*	*0*	*113*	*85 - 114*				
Surr: Dibromofluoromethane	*56.83*	*35*	*50*	*0*	*114*	*80 - 119*				
Surr: Toluene-d8	*55.47*	*35*	*50*	*0*	*111*	*89 - 112*				

ALS Houston, US Date: 12-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP-50
WorkOrder: HS24051490

QC BATCH REPORT

Batch ID: R468115 (0) **Instrument: VOA9** **Method: VOLATILES ORGANICS BY METHOD 8260C**

MS Sample ID: **HS24051490-05MS** Units: **ug/L** Analysis Date: **31-May-2024 00:04**
Client ID: **50WW12_052224_a** Run ID: **VOA9_468115** SeqNo: **8040034** PrepDate: DF: **10**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1-Dichloroethene	193.9	10	200	17.9	88.0	71 - 131				
1,2-Dichloroethane	200.6	10	200	13.52	93.5	73 - 128				
cis-1,2-Dichloroethene	167.7	10	200	0	83.8	78 - 123				
Tetrachloroethene	196	10	200	0	98.0	74 - 129				
Trichloroethene	1232	10	200	1067	82.4	79 - 123				O
Vinyl chloride	222.7	10	200	0	111	58 - 137				
Surr: 1,2-Dichloroethane-d4	*581.7*	*350*	*500*	*0*	*116*	*81 - 118*				
Surr: 4-Bromofluorobenzene	*586*	*350*	*500*	*0*	*117*	*85 - 114*				S
Surr: Dibromofluoromethane	*580*	*350*	*500*	*0*	*116*	*80 - 119*				
Surr: Toluene-d8	*575.4*	*350*	*500*	*0*	*115*	*89 - 112*				S

MSD Sample ID: **HS24051490-05MSD** Units: **ug/L** Analysis Date: **31-May-2024 00:26**
Client ID: **50WW12_052224_a** Run ID: **VOA9_468115** SeqNo: **8040035** PrepDate: DF: **10**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1-Dichloroethene	191.1	10	200	17.9	86.6	71 - 131	193.9	1.48	20	
1,2-Dichloroethane	192.4	10	200	13.52	89.4	73 - 128	200.6	4.17	20	
cis-1,2-Dichloroethene	163.4	10	200	0	81.7	78 - 123	167.7	2.59	20	
Tetrachloroethene	188.5	10	200	0	94.2	74 - 129	196	3.93	20	
Trichloroethene	1172	10	200	1067	52.5	79 - 123	1232	4.97	20	SO
Vinyl chloride	213.9	10	200	0	107	58 - 137	222.7	4	20	
Surr: 1,2-Dichloroethane-d4	*582.1*	*350*	*500*	*0*	*116*	*81 - 118*	*581.7*	*0.0697*	*20*	
Surr: 4-Bromofluorobenzene	*592.7*	*350*	*500*	*0*	*119*	*85 - 114*	*586*	*1.13*	*20*	S
Surr: Dibromofluoromethane	*578.8*	*350*	*500*	*0*	*116*	*80 - 119*	*580*	*0.213*	*20*	
Surr: Toluene-d8	*579.6*	*350*	*500*	*0*	*116*	*89 - 112*	*575.4*	*0.725*	*20*	S

The following samples were analyzed in this batch: HS24051490-01 HS24051490-02 HS24051490-04 HS24051490-05 HS24051490-06 HS24051490-07 HS24051490-08

ALS Houston, US Date: 12-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP-50
WorkOrder: HS24051490

QC BATCH REPORT

Batch ID: R467693 (0) **Instrument: ICS-Integrion** **Method: ANIONS BY SW9056A**

MBLK Sample ID: **MBLK** Units: **mg/L** Analysis Date: **24-May-2024 21:13**
Client ID: Run ID: **ICS-Integrion_467693** SeqNo: **8029946** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	0.250	0.500								U
Nitrogen, Nitrate (As N)	0.0500	0.100								U
Sulfate	0.250	0.500								U

LCS Sample ID: **LCS** Units: **mg/L** Analysis Date: **24-May-2024 21:19**
Client ID: Run ID: **ICS-Integrion_467693** SeqNo: **8029947** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	21.06	0.500	20	0	105	80 - 120				
Nitrogen, Nitrate (As N)	4.225	0.100	4	0	106	80 - 120				
Sulfate	20.94	0.500	20	0	105	80 - 120				

MS Sample ID: **HS24051535-01MS** Units: **mg/L** Analysis Date: **24-May-2024 21:37**
Client ID: Run ID: **ICS-Integrion_467693** SeqNo: **8029950** PrepDate: DF: **10**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	472.6	5.00	100	390.9	81.7	80 - 120				
Nitrogen, Nitrate (As N)	19.66	1.00	20	0	98.3	80 - 120				
Sulfate	487.4	5.00	100	435.7	51.7	80 - 120				SO

MSD Sample ID: **HS24051535-01MSD** Units: **mg/L** Analysis Date: **24-May-2024 21:42**
Client ID: Run ID: **ICS-Integrion_467693** SeqNo: **8029951** PrepDate: DF: **10**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	472.5	5.00	100	390.9	81.6	80 - 120	472.6	0.0169	20	
Nitrogen, Nitrate (As N)	19.72	1.00	20	0	98.6	80 - 120	19.66	0.315	20	
Sulfate	488	5.00	100	435.7	52.3	80 - 120	487.4	0.114	20	SO

The following samples were analyzed in this batch: HS24051490-04 HS24051490-05 HS24051490-06 HS24051490-07

ALS Houston, US Date: 12-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP-50
WorkOrder: HS24051490

QC BATCH REPORT

Batch ID: R468250 (0) **Instrument: TOC_05** **Method: TOTAL ORGANIC CARBON - SM5310B-2011**

MBLK Sample ID: **MBLK-05292024** Units: **mg/L** Analysis Date: **31-May-2024 21:36**
Client ID: Run ID: **TOC_05_468250** SeqNo: **8042367** 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-05292024** Units: **mg/L** Analysis Date: **31-May-2024 21:49**
Client ID: Run ID: **TOC_05_468250** SeqNo: **8042368** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Organic Carbon, Total	9.642	1.00	10	0	96.4	91 - 109				

LCSD Sample ID: **LCSD-05292024** Units: **mg/L** Analysis Date: **31-May-2024 22:01**
Client ID: Run ID: **TOC_05_468250** SeqNo: **8042369** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Organic Carbon, Total	9.579	1.00	10	0	95.8	91 - 109	9.642	0.656	20	

MS Sample ID: **HS24051089-09MS** Units: **mg/L** Analysis Date: **31-May-2024 22:35**
Client ID: Run ID: **TOC_05_468250** SeqNo: **8042371** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Organic Carbon, Total	10.63	1.00	10	2.904	77.3	86 - 117				S

The following samples were analyzed in this batch: HS24051490-04

ALS Houston, US Date: 12-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP-50
WorkOrder: HS24051490

QC BATCH REPORT

Batch ID: R468251 (0) **Instrument: TOC_05** **Method: TOTAL ORGANIC CARBON - SM5310B-2011**

MBLK Sample ID: **MBLK-05292024** Units: **mg/L** Analysis Date: **01-Jun-2024 02:36**
Client ID: Run ID: **TOC_05_468251** SeqNo: **8042387** 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-05292024** Units: **mg/L** Analysis Date: **01-Jun-2024 02:48**
Client ID: Run ID: **TOC_05_468251** SeqNo: **8042388** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Organic Carbon, Total	9.539	1.00	10	0	95.4	91 - 109				

LCSD Sample ID: **LCSD-05292024** Units: **mg/L** Analysis Date: **01-Jun-2024 03:00**
Client ID: Run ID: **TOC_05_468251** SeqNo: **8042389** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Organic Carbon, Total	9.704	1.00	10	0	97.0	91 - 109	9.539	1.71	20	

MS Sample ID: **HS24051490-05MS** Units: **mg/L** Analysis Date: **01-Jun-2024 03:34**
Client ID: **50WW12_052224_a** Run ID: **TOC_05_468251** SeqNo: **8042391** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Organic Carbon, Total	12.44	1.00	10	9.443	30.0	86 - 117				S

The following samples were analyzed in this batch: HS24051490-05 HS24051490-06 HS24051490-07

ALS Houston, US Date: 12-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP-50
WorkOrder: **HS24051490**

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_2024	27-Mar-2025
California	2919; 2025	30-Apr-2025
Florida	E87611-38	30-Jun-2024
Illinois	2000322023-11	30-Jun-2024
Kansas	E-10352 2023-2024	31-Jul-2024
Kentucky	123043	30-Apr-2025
Louisiana	03087 2023-2024	30-Jun-2024
Maryland	343; 2023-2024	30-Jun-2024
North Carolina	624 - 2024	31-Dec-2024
Oklahoma	2023-140	31-Aug-2024
Tennessee	04016	30-Apr-2025
Texas	T104704231 TX-C24-00130	30-Apr-2025
Utah	TX026932023-14	31-Jul-2024

ALS Houston, US Date: 12-Jun-24

Sample Receipt Checklist

Work Order ID: HS24051490 **Date/Time Received:** 24-May-2024 09:50

Client Name: Bhate Environmental **Received by:** Si Ma

Completed By: /S/ Monica Smith (eSignature) 24-May-2024 13:07 (Date/Time) **Reviewed by:** /S/ Luis.Aguilar (eSignature) 28-May-2024 14:21 (Date/Time)

Matrices: **water** Carrier name: **FedEx**

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):	0.9 uc/1.0 c	IR31	
Cooler(s)/Kit(s):	50048		
Date/Time sample(s) sent to storage:	05/24/2024 1309		
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: Login Comments: Nitrate containers received outside of 48hr hold time.

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

Corrective Action:

bhate ENVIRONMENTAL CONSTRUCTION ENERGY

HS24051490

01333896

Aptim Environmental & Infrastructure, Inc.

LHAAP/ Site 50

1608 13th Avenue South, Suite 300
Birmingham Alabama 35205
Tel: 205-918-4000
Fax: 205-918-4050

Chain of Custody and Analytical Request

Facility/Base I.D.: LHAAP

Project/Site Name: LHAAP / Site 50

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 by SW 8260B	TOC by SM5310C	MEE by RSK 175	Anions by SW9056	CO2 by RSK 175	Perchlorate by SW 6850				Ambient Blank Lot Control Number	Equipment Blank Lot Control Number	Trip Blank Lot Control Number	Cooler ID
							Sample Analysis Requested (5)										Quality Assurance Samples (6)			
SDWW09_052224	22 MAY 2024	0715	-	N		WG	4	X					X							
SDWW08_052224	22 MAY 2024	0755	-	N		WG	4	X					X							
SDWW23_052224	22 MAY 2024	0840	-	N		WG	4	X					X							
SDWW23_052224_MS	22 MAY 2024	0840		MS		WG	4	X					X							
SDWW23_052224_MSD	22 MAY 2024	0840		SD		WG	4	X					X							
SDWW12_052224	22 MAY 2024	0925	-	N		WG	13	X	X	X	X	X	X							
SDWW12_052224_a	22 MAY 2024	0925	-	FD		WG	13	X	X	X	X	X	X							
SDWW06_052224	22 MAY 2024	1020	-	N		WG	13	X	X	X	X	X	X							
SDWW06_052224_a	22 MAY 2024	1020	-	FD		WG	13	X	X	X	X	X	X							
TRIP BLANK_052224	22 MAY 2024		-	TB		W	2	X												
			-																	

COMMENTS: STANDARD TAT

Custody Transfers Prior to Receipt by Laboratory

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1.	Scott Beesinger	5/22/24	1350			
2.				SM	05/24/24	09:50
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

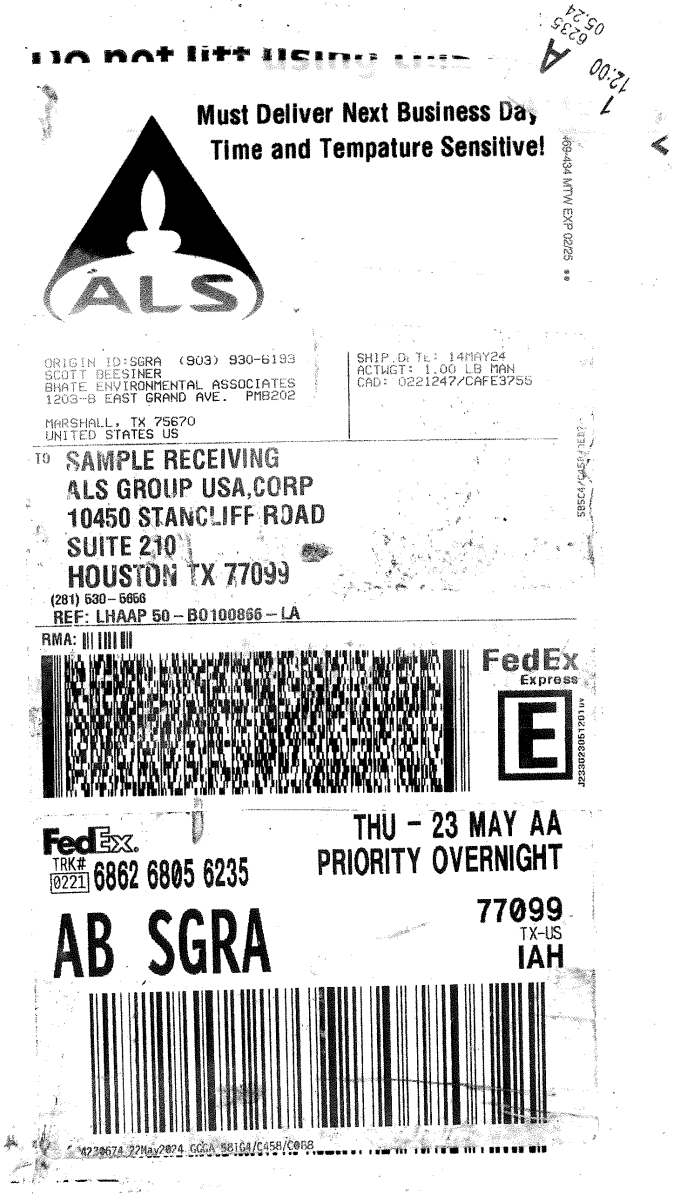
Cooler # 50048 Temp 4°C Preg 3/ 0.9 CF to .1

ALS
10450 Stancliff Rd., Suite 210
Houston, Texas 77099
Tel. +1 281 530 5656
Fax. +1 281 530 5887

CUSTODY SEAL
Date: 5/22/23 Time: 1330
Name: Scott Beesinger
Company: BHATE

Seal Broken By:
Date: 05/24/24

50048



bhate ENVIRONMENTAL CONSTRUCTION & ENERGY

HS24051490 01333898

Bhate Environmental Associates, Inc.
LHAAP-50

1608 13th Avenue South, Suite 300
Birmingham Alabama 35205
Tel: 205-918-4000
Fax: 205-918-4050

Chain of Custody and Analytical Request

Facility/Base I.D.: LHAAP

Project/Site Name: LHAAP / Site 50

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)	Sample Analysis Requested (5): Number of containers	VOC by SW 8260B	TOC by SM5310C	MEE by RSK 175	Anions by SW9056	CO2 by RSK 175	Perchlorate by SW 6850				Quality Assurance Samples (6): Ambient Blank Lot Control Number	Equipment Blank Lot Control Number	Trip Blank Lot Control Number	Cooler ID
SDWW09_052224	22 MAY 2024	0715	-	N		WG	4	X					X							
SDWW08_052224	22 MAY 2024	0755	-	N		WG	4	X					X							
SDWW23_052224	22 MAY 2024	0840	-	N		WG	4	X					X							
SDWW23_052224_MS	22 MAY 2024	0840		MS		WG	4	X					X							
SDWW23_052224_MSD	22 MAY 2024	0840		SD		WG	4	X					X							
SDWW12_052224	22 MAY 2024	0925	-	N		WG	13	X	X	X	X	X	X							
SDWW12_052224_a	22 MAY 2024	0925	-	FD		WG	13	X	X	X	X	X	X							
SDWW06_052224	22 MAY 2024	1020	-	N		WG	13	X	X	X	X	X	X							
SDWW06_052224_a	22 MAY 2024	1020	-	FD		WG	13	X	X	X	X	X	X							
TRIP BLANK_052224	22 MAY 2024		-	TB		W	2	X												
			-																	

COMMENTS: STANDARD TAT

Custody Transfers Prior to Receipt by Laboratory

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1. Scott Beesinger	5/22/24	1330	1.		
2.			2. SM	05/24/24	09:50
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:

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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

Coolers 50848 Temp 4.1C Dup 3/1
0.9 CF +0.1

ALS
10450 Stancliff Rd., Suite 210
Houston, Texas 77099
Tel. +1 281 530 5656
Fax. +1 281 530 5887

CUSTODY SEAL

Date: 5/22/23 Time: 1330

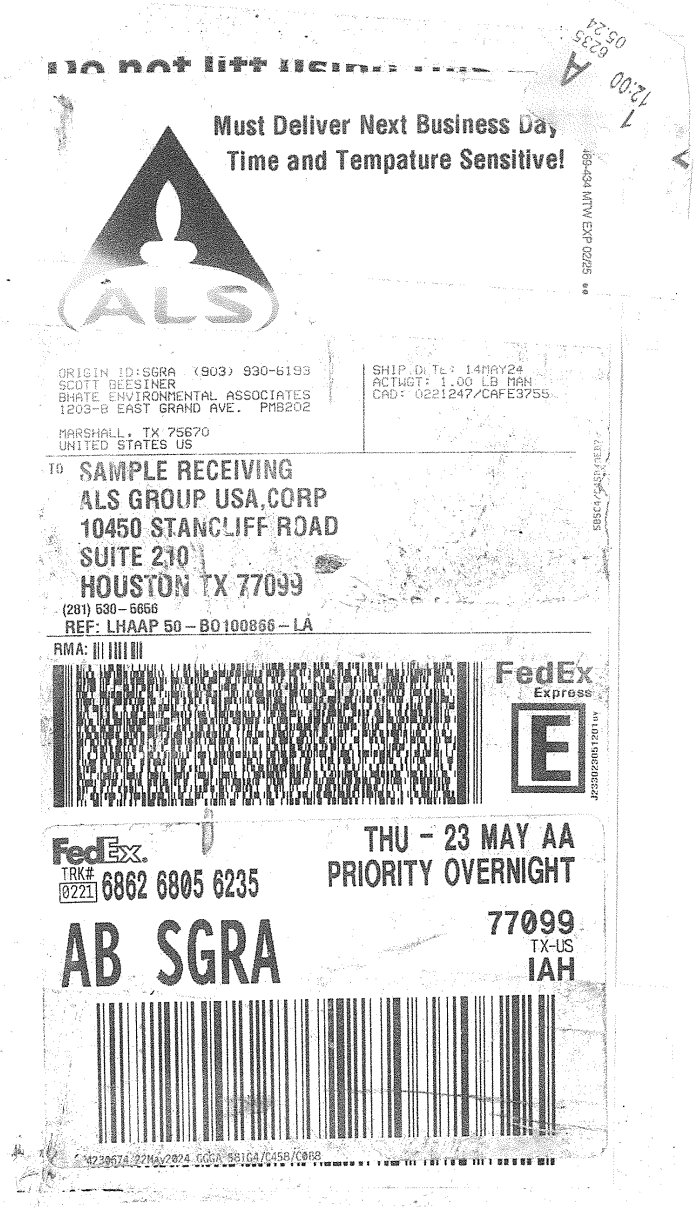
Name: Scott Beesinger

Company: Bhate

Seal Broken By:

Date: 05/24/24

500148



June 11, 2024 Service Request No:E2400588

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

Laboratory Results for: HS24051490

Dear Luis,

Enclosed are the results of the sample(s) submitted to our laboratory May 24, 2024
For your reference, these analyses have been assigned our service request number **E2400588.**

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 2190. You may also contact me via email at hussam.kelany@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

H Kelany

Hussam Kelany
Project Manager

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

Client:	ALS Environmental - US	**Service Request No.:**	E2400588
Project:	HS24051490	**Date Received:**	05/24/24
Sample Matrix:	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 IV. When appropriate to the method, method blank results have been reported with each analytical test.

Sample Receipt

Seven samples were received for analysis at ALS Environmental in Houston on 05/24/24.

The samples were received in good condition and are 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:

EQ2400278: Laboratory Control Spike/Duplicate Laboratory Control Spike (LCS/DLCS) samples were analyzed and reported in addition to a 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.

EQ2400278-04 (MS) and EQ2400278-05 (DMS) out of control data due to matrix interference.

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:**E2400588

Project: HS24051490

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
E2400588-001	50WW09_052224	5/22/2024	0715
E2400588-002	50WW08_052224	5/22/2024	0755
E2400588-003	50WW23_052224	5/22/2024	0840
E2400588-004	50WW12_052224	5/22/2024	0925
E2400588-005	50WW12_052224_a	5/22/2024	0925
E2400588-006	50WW06_052224	5/22/2024	1020
E2400588-007	50WW06_052224_a	5/22/2024	1020

Service Request Summary

Folder #: **E2400588**
Client Name: ALS Environmental - US
Project Name: HS24051490
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: Hussam Kelany
Originating Lab: HOUSTON
Logged By: JCORONADO2
Date Received: 05/24/24
Internal Due Date: 6/5/2024
QAP: LAB QAP
Qualifier Set: Lab Standard
Formset: Lab Standard
Merged?: Y
Report to MDL?: Y
P.O. Number:
EDD: EQUIS EFWEDD ERM Global High-res

01333904
9 120 mL-Plastic Bottle Natural WM Unpreserved
Location: EHRMS-WIC 6A
Pressure Gas:

Lab Samp No.	Client Samp No	Matrix	Collected	HOUSTON ClO4 DOD/6850
E2400588-001	50WW09_052224	Water	05/22/24 0715	**IV**
E2400588-002	50WW08_052224	Water	05/22/24 0755	**IV**
E2400588-003	50WW23_052224	Water	05/22/24 0840	**IV**
E2400588-004	50WW12_052224	Water	05/22/24 0925	**IV**
E2400588-005	50WW12_052224_a	Water	05/22/24 0925	**IV**
E2400588-006	50WW06_052224	Water	05/22/24 1020	**IV**
E2400588-007	50WW06_052224_a	Water	05/22/24 1020	**IV**

Service Request Summary

Folder #: **E2400588**
Client Name: ALS Environmental - US
Project Name: HS24051490
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: Hussam Kelany
Originating Lab: HOUSTON
Logged By: JCORONADO2
Date Received: 05/24/24
Internal Due Date: 6/5/2024
QAP: LAB QAP
Qualifier Set: Lab Standard
Formset: Lab Standard
Merged?: Y
Report to MDL?: Y
P.O. Number:
EDD: EQUIS EFWEDD ERM Global High-res

01333905

9 120 mL-Plastic Bottle Natural WM Unpreserved

Location: EHRMS-WIC 6A

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

ALS Environmental

State Certifications, Accreditations, and Licenses

Agency	Number	Expire Date
Arkansas Department of Environmental Quality	88-00356	3/28/2025
California State Environmental Laboratory Accreditation Program	2919-2024	4/30/2025
Department of Defense	L24-240	4/30/2026
Florida Department of Health	E87611-38	6/30/2024
Hawaii Department of Health	2024	4/30/2025
Illinois Environmental Protection Agency	2000322023-11	6/30/2024
Kansas Department of Health and Environment	E-10352 2023-2024	7/31/2024
Louisiana Department of Environmental Quality	03087-2023	6/30/2024
Louisiana Department of Health and Hospitals	LA028-2024	12/31/2024
Maryland Department of the Environment	343-2023	6/30/2024
Minnesota Department of Health	2645386	12/31/2024
Nevada Division of Environmental Protection	TX026932024-1	7/31/2024
New Hampshire Environmental Laboratory Accreditation Program	209424-A	4/24/2025
New Jersey Department of Environmental Protection	TX008-2024	6/30/2024
Oklahoma Department of Environmental Quality	2023-140	8/31/2024
Oregon Environmental Laboratory Accreditation Program	TX200002-2024	5/15/2025
Pennsylvania Department of Environmental Protection	68-03441-017	6/30/2024
Tennessee Department of Environment and Conservation	04016-2024	4/30/2025
Texas Commision on Environmental Quality	TX-C24-00130	4/30/2025
Utah Department of Health Environmental Laboratory Certification	TX026932023-14	7/31/2024
Washington Department of Ecology	C819-23	11/14/2024

Chain of Custody

ALS Environmental - Houston Specialties Laboratory
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Phone (281)530-5656 Fax (281)530-5887
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E2400588 5

ALS Laboratory Group
HS24051490

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Houston, TX 77099
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Subcontract Chain of Custody

SAMPLING STATE: **Dept of Defense** **COC ID: 25795**

SUBCONTRACT TO:

ALS Environmental
10450 Stancliff RoadSuite 210
Houston, TX 77084

Phone: +1 281 530 5656

CUSTOMER INFORMATION:

Company:	ALS Houston
Contact:	Luis.Aguilar
Address:	10450 Stancliff Rd, Ste 210
Phone:	+1 281 530 5656
Email:	luis.aguilar@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:	HS24051490
TSR:	Ron Martino

	LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	COLLECT DATE
	ANALYSIS REQUESTED			DUE DATE
1.	**HS24051490-01**	**50WW09_052224**	**Water**	**22 May 2024 07:15**
	Perchlorate Level II and Level IV reports on a seperate pdf. Send WOA to Vicki Graves.			10 Jun 2024
2.	**HS24051490-02**	**50WW08_052224**	**Water**	**22 May 2024 07:55**
	Perchlorate Level II and Level IV reports on a seperate pdf. Send WOA to Vicki Graves.			10 Jun 2024
3.	**HS24051490-03**	**50WW23_052224**	**Water**	**22 May 2024 08:40**
	Perchlorate Level II and Level IV reports on a seperate pdf. Send WOA to Vicki Graves.			10 Jun 2024
4.	**HS24051490-04**	**50WW12_052224**	**Water**	**22 May 2024 09:25**
	Perchlorate Level II and Level IV reports on a seperate pdf. Send WOA to Vicki Graves.			10 Jun 2024
5.	**HS24051490-05**	**50WW12_052224_a**	**Water**	**22 May 2024 09:25**
	Perchlorate Level II and Level IV reports on a seperate pdf. Send WOA to Vicki Graves.			10 Jun 2024
6.	**HS24051490-06**	**50WW06_052224**	**Water**	**22 May 2024 10:20**
	Perchlorate Level II and Level IV reports on a seperate pdf. Send WOA to Vicki Graves.			10 Jun 2024
7.	**HS24051490-07**	**50WW06_052224_a**	**Water**	**22 May 2024 10:20**
	Perchlorate Level II and Level IV reports on a seperate pdf. Send WOA to Vicki Graves.			10 Jun 2024

ALS Laboratory Group
HS24051490

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Sample Receipt Checklist

Work Order ID: HS24051490 **Date/Time received:** 24 May 2024 09:50

Client name: Aptim Environmental & Infrastucture, Inc. **Received by:** Si Ma

Completed/By: 24 May 2024 13:07 Monica Smith **Reviewed/By:**
Date/Time eSignature Date/Time eSignature

Matrices: water **Carrier name:** FedEx

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 ID(s): 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): 0.9 uc/1.0 c IR31

Cooler Information: 1 Cooler(s), 50048

Date/Time sample(s) sent to storage: 05/24/2024 1309

Water - VOA vials have zero headspace?	☑ Yes	☐ No	☐ No VOA vials submitted
Water - pH acceptable upon receipt?	☐ Yes	☐ No	☑ Not Applicable
pH adjusted?	☐ Yes	☐ No	☑ Not Applicable

pH adjusted by:

Login notes: Nitrates received out of hold, proceeded with running.

Client contacted: **Date contacted:** **Person contacted:**

Contacted by: **Regarding:**

Comments:

Corrective action:

Subcontract Chain of Custody

SAMPLING STATE: **Dept of Defense** **COC ID:** **25795**

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: 5/24/24 0950

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

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

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

01333916

Prep Run#: 439478 **Prep WorkFlow:** GenExt28Day **Status:** Prepped
Team: Semivoa GCMS/CGUERRA **Prep Method:** Method **Prep Date/Time:** 6/4/24 10:16

#	Lab Code	Client ID	B#	Method /Test	pH	Cl	Matrix	Amt. Ext.	Sample Description
1	E2400588-001	50WW09_052224	.01	6850/ClO4 DOD			Water	10mL	
2	E2400588-002	50WW08_052224	.01	6850/ClO4 DOD			Water	10mL	
3	E2400588-003	50WW23_052224	.01	6850/ClO4 DOD			Water	10mL	
4	E2400588-004	50WW12_052224	.01	6850/ClO4 DOD			Water	10mL	
5	E2400588-005	50WW12_052224_a	.01	6850/ClO4 DOD			Water	10mL	
6	E2400588-006	50WW06_052224	.01	6850/ClO4 DOD			Water	10mL	
7	E2400588-007	50WW06_052224_a	.01	6850/ClO4 DOD			Water	10mL	
8	E2400610-001	2405581-01 (W-29)	.01	6850/ClO4 DOD			Water	10mL	
9	E2400610-002	2405581-02 (W-8)	.01	6850/ClO4 DOD			Water	10mL	
10	E2400610-003	2405581-03 (W-3)	.01	6850/ClO4 DOD			Water	10mL	
11	E2400610-004	2405581-04 (W-4)	.01	6850/ClO4 DOD			Water	10mL	
12	E2400610-005	2405581-05 (W-15)	.01	6850/ClO4 DOD			Water	10mL	
13	E2400610-006	2405581-06 (W-16)	.01	6850/ClO4 DOD			Water	10mL	
14	E2400610-007	2405581-07 (W-11)	.01	6850/ClO4 DOD			Water	10mL	
15	E2400610-008	2405581-08 (W-1)	.01	6850/ClO4 DOD			Water	10mL	
16	E2400610-009	2405581-09 (W-12)	.01	6850/ClO4 DOD			Water	10mL	
17	E2400617-001	2405240908X WB-1-255	.01	6850/ClO4 DOD			Water	10mL	
18	EQ2400278-01	MB		6850/ClO4 DOD			Liquid	10mL	
19	EQ2400278-02	LCS		6850/ClO4 DOD			Liquid	10mL	
20	EQ2400278-03	ICS		6850/ClO4 DOD			Liquid	10mL	
21	EQ2400278-04	50WW23_052224 MS	.02	6850/ClO4 DOD			Liquid	10mL	
22	EQ2400278-05	50WW23_052224 DMS	.02	6850/ClO4 DOD			Liquid	10mL	

Spiking Solutions

Name: Perchlorate Anion Spiking Soln. 25,000 ppm Inventory ID 233595 Logbook Ref: Expires On: 08/04/2024

EQ2400278-03 20.00µL

Name: Perchlorate Intermediate Stock 3 Inventory ID 234838 Logbook Ref: Perchlorate Inter. Stock 3 NMV Expires On: 10/25/2024

EQ2400278-02 100.00µL EQ2400278-03 100.00µL EQ2400278-04 100.00µL EQ2400278-05 100.00µL

Name: Perchlorate Internal Standard 1ug/mL Inventory ID 235428 Logbook Ref: Perchlorate IS cg5/24/24 Expires On: 11/24/2024

E2400588-001 100.00µL E2400588-002 100.00µL E2400588-003 100.00µL E2400588-004 100.00µL E2400588-005 100.00µL E2400588-006 100.00µL
E2400588-007 100.00µL E2400610-001 100.00µL E2400610-002 100.00µL E2400610-003 100.00µL E2400610-004 100.00µL E2400610-005 100.00µL

Preparation Information Benchsheet

01333917

Prep Run#: 439478 **Prep WorkFlow:** GenExt28Day **Status:** Prepped

Team: Semivoa GCMS/CGUERRA **Prep Method:** Method **Prep Date/Time:** 6/4/24 10:16

E2400610-006	100.00µL	E2400610-007	100.00µL	E2400610-008	100.00µL	E2400610-009	100.00µL	E2400617-001	100.00µL	EQ2400278-01	100.00µL
EQ2400278-02	100.00µL	EQ2400278-03	100.00µL	EQ2400278-04	100.00µL	EQ2400278-05	100.00µL				

Preparation Materials

Water HPLC Grade	HPLC WATER 04/15/24 (233144)	6850 0.45um syringe filters	6850 0.45 SYRING FILTER (229979)	6850 Luer-Lok Syringes	Luer Lok Syringes (235268)

Preparation Steps

Step: Preparation
Started: 6/4/24 10:16
Finished: 6/4/24 14:00
By: CGUERRA
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
Phone (281)530-5656 Fax (281)530-5887
www.alsglobal.com

Client:	ALS Environmental - US	**Service Request:**	E2400588
Project:	HS24051490	**Date Collected:**	5/22/24 0715
Sample Matrix:	Water	**Date Received:**	5/24/24
Sample Name:	50WW09_052224	**Units:**	µg/L
Lab Code:	E2400588-001	**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	**0.450**		0.100	0.0500	0.0250	1	6/ 4/24	6/7/24 14:05	439478	843419	

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400588
Project:	HS24051490	**Date Collected:**	5/22/24 0755
Sample Matrix:	Water	**Date Received:**	5/24/24
Sample Name:	50WW08_052224	**Units:**	µg/L
Lab Code:	E2400588-002	**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	**210**		1.00	0.500	0.250	10	6/ 4/24	6/7/24 16:31	439478	843419	

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400588
Project:	HS24051490	**Date Collected:**	5/22/24 0840
Sample Matrix:	Water	**Date Received:**	5/24/24
Sample Name:	50WW23_052224	**Units:**	µg/L
Lab Code:	E2400588-003	**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	ND	U	1.00	0.500	0.250	10	6/ 4/24	6/7/24 16:36	439478	843419	

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400588
Project:	HS24051490	**Date Collected:**	5/22/24 0925
Sample Matrix:	Water	**Date Received:**	5/24/24
Sample Name:	50WW12_052224	**Units:**	µg/L
Lab Code:	E2400588-004	**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	**443000**		1000	500	250	10000	6/ 4/24	6/7/24 16:47	439478	843419	

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400588
Project:	HS24051490	**Date Collected:**	5/22/24 0925
Sample Matrix:	Water	**Date Received:**	5/24/24
Sample Name:	50WW12_052224_a	**Units:**	µg/L
Lab Code:	E2400588-005	**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	**139000**		1000	500	250	10000	6/ 4/24	6/7/24 16:47	439478	843419	

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400588
Project:	HS24051490	**Date Collected:**	5/22/24 1020
Sample Matrix:	Water	**Date Received:**	5/24/24
Sample Name:	50WW06_052224	**Units:**	µg/L
Lab Code:	E2400588-006	**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	**0.537**		0.100	0.0500	0.0250	1	6/ 4/24	6/7/24 15:02	439478	843419	

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400588
Project:	HS24051490	**Date Collected:**	5/22/24 1020
Sample Matrix:	Water	**Date Received:**	5/24/24
Sample Name:	50WW06_052224_a	**Units:**	µg/L
Lab Code:	E2400588-007	**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	**1.28**		0.100	0.0500	0.0250	1	6/ 4/24	6/7/24 15:08	439478	843419	

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400588
Project:	HS24051490	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	µg/L
Lab Code:	EQ2400278-01	**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	6/ 4/24	6/7/24 13:37	439478	843419	

Accuracy & Precision

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

QA/QC Report

Client:	ALS Environmental - US	**Service Request:**	E2400588
Project:	HS24051490	**Date Analyzed:**	06/07/24
Sample Matrix:	Water	**Date Extracted:**	06/04/24

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

Analysis Method:	6850	**Units:**	ug/L
Prep Method:	Method	**Basis:**	NA
		Analysis Lot:	843419

Lab Control Sample
EQ2400278-02

Analyte Name	Result	Spike Amount	% Rec	% Rec Limits
Perchlorate	0.104	0.100	104	84-119

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400588
Project:	HS24051490	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Lab Control Sample	**Units:**	µg/L
Lab Code:	EQ2400278-02	**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	**0.104**		0.100	0.0500	0.0250	1	6/ 4/24	6/7/24 13:43	439478	843419	

Client:	ALS Environmental - US	**Service Request:**	E2400588
Project:	HS24051490	**Date Collected:**	05/22/24
Sample Matrix:	Water	**Date Received:**	05/24/24
		Date Analyzed:	06/10/24
		Date Extracted:	06/4/24

Duplicate Matrix Spike Summary

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

Sample Name:	50WW23_052224	**Units:**	ug/L
Lab Code:	E2400588-003	**Basis:**	NA
Analysis Method:	6850		
Prep Method:	Method		

		Matrix Spike			Duplicate Matrix Spike					
		EQ2400278-04			EQ2400278-05					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Perchlorate	ND U	ND U	0.100	0 *	ND U	0.100	0 *	84-119	NC	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.

Matrix Spike and Matrix Spike Duplicate Data is presented for information purposes only. The matrix may or may not be relevant to samples reported in this report. The laboratory evaluates system performance based on the LCS and LCSD control limits.

Client:	ALS Environmental - US	**Service Request:**	E2400588
Project:	HS24051490	**Date Collected:**	5/22/24 0840
Sample Matrix:	Water	**Date Received:**	5/24/24
Sample Name:	50WW23_052224	**Units:**	µg/L
Lab Code:	EQ2400278-04	**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	ND	U	1.00	0.500	0.250	10	6/ 4/24	6/10/24 12:28	439478	843543	

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400588
Project:	HS24051490	**Date Collected:**	5/22/24 0840
Sample Matrix:	Water	**Date Received:**	5/24/24
Sample Name:	50WW23_052224	**Units:**	µg/L
Lab Code:	EQ2400278-05	**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	ND	U	1.00	0.500	0.250	10	6/ 4/24	6/10/24 12:34	439478	843543	

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ANALYTICAL REPORT

PREPARED FOR

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

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JOB DESCRIPTION

HS24051490

JOB NUMBER

410-173670-1

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



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6/3/2024 4:56:46 PM

Authorized for release by
Dana Kauffman, Project Manager
Dana.Kauffman@et.eurofinsus.com
(717)556-7219

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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Table of Contents

Cover Page 1
Table of Contents 4
Definitions/Glossary 5
Case Narrative 6
Detection Summary 7
Client Sample Results 8
QC Sample Results 9
QC Association Summary 10
Lab Chronicle 11
Certification Summary 12
Method Summary 13
Sample Summary 14
Chain of Custody 15
Receipt Checklists 16

Definitions/Glossary

Client: ALS Group USA, Corp
Project/Site: HS24051490

Job ID: 410-173670-1

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 ID: 410-173670-1 — Eurofins Lancaster Laboratories Environment

Job Narrative
410-173670-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- 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 may be 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.

Receipt
The samples were received on 5/29/2024 10:30 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 4.6°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: HS24051490

Job ID: 410-173670-1

Client Sample ID: 50WW12_052224 — Lab Sample ID: 410-173670-1

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
Carbon dioxide	300000	M	12000	5600	ug/L	1		RSK-175	Total/NA

Client Sample ID: 50WW12_052224_a — Lab Sample ID: 410-173670-2

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
Carbon dioxide	320000	M	12000	5600	ug/L	1		RSK-175	Total/NA

Client Sample ID: 50WW06_052224 — Lab Sample ID: 410-173670-3

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
Carbon dioxide	160000		12000	5600	ug/L	1		RSK-175	Total/NA

Client Sample ID: 50WW06_052224_a — Lab Sample ID: 410-173670-4

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
Carbon dioxide	170000		12000	5600	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: HS24051490

Job ID: 410-173670-1

Client Sample ID: 50WW12_052224
Lab Sample ID: 410-173670-1
Date Collected: 05/22/24 09:25
Matrix: Water
Date Received: 05/29/24 10:30

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	300000	M	12000	5600	ug/L		05/31/24 10:23	05/31/24 11:29	1

Client Sample ID: 50WW12_052224_a
Lab Sample ID: 410-173670-2
Date Collected: 05/22/24 09:25
Matrix: Water
Date Received: 05/29/24 10:30

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	320000	M	12000	5600	ug/L		05/31/24 10:23	05/31/24 11:36	1

Client Sample ID: 50WW06_052224
Lab Sample ID: 410-173670-3
Date Collected: 05/22/24 10:20
Matrix: Water
Date Received: 05/29/24 10:30

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	160000		12000	5600	ug/L		05/31/24 10:23	05/31/24 11:44	1

Client Sample ID: 50WW06_052224_a
Lab Sample ID: 410-173670-4
Date Collected: 05/22/24 10:20
Matrix: Water
Date Received: 05/29/24 10:30

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	170000		12000	5600	ug/L		05/31/24 10:23	05/31/24 11:52	1

QC Sample Results

Client: ALS Group USA, Corp
Project/Site: HS24051490

Job ID: 410-173670-1

Method: RSK-175 - Dissolved Gases (GC)

Lab Sample ID: MB 410-512401/1-A
Matrix: Water
Analysis Batch: 512348

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 512401

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	5600	U M	12000	5600	ug/L		05/31/24 10:23	05/31/24 10:34	1

Lab Sample ID: LCS 410-512401/2-A
Matrix: Water
Analysis Batch: 512348

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 512401

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Carbon dioxide			35800	38800		ug/L		108	80 - 122		

Lab Sample ID: LCSD 410-512401/3-A
Matrix: Water
Analysis Batch: 512348

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 512401

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Carbon dioxide			35800	39600		ug/L		111	80 - 122	2	20

QC Association Summary

Client: ALS Group USA, Corp
Project/Site: HS24051490

Job ID: 410-173670-1

GC VOA

Analysis Batch: 512348

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-173670-1	50WW12_052224	Total/NA	Water	RSK-175	512401
410-173670-2	50WW12_052224_a	Total/NA	Water	RSK-175	512401
410-173670-3	50WW06_052224	Total/NA	Water	RSK-175	512401
410-173670-4	50WW06_052224_a	Total/NA	Water	RSK-175	512401
MB 410-512401/1-A	Method Blank	Total/NA	Water	RSK-175	512401
LCS 410-512401/2-A	Lab Control Sample	Total/NA	Water	RSK-175	512401
LCSD 410-512401/3-A	Lab Control Sample Dup	Total/NA	Water	RSK-175	512401

Prep Batch: 512401

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-173670-1	50WW12_052224	Total/NA	Water	RSK-175	
410-173670-2	50WW12_052224_a	Total/NA	Water	RSK-175	
410-173670-3	50WW06_052224	Total/NA	Water	RSK-175	
410-173670-4	50WW06_052224_a	Total/NA	Water	RSK-175	
MB 410-512401/1-A	Method Blank	Total/NA	Water	RSK-175	
LCS 410-512401/2-A	Lab Control Sample	Total/NA	Water	RSK-175	
LCSD 410-512401/3-A	Lab Control Sample Dup	Total/NA	Water	RSK-175	

Lab Chronicle

Client: ALS Group USA, Corp
Project/Site: HS24051490

Job ID: 410-173670-1

Client Sample ID: 50WW12_052224
Lab Sample ID: 410-173670-1
Date Collected: 05/22/24 09:25
Matrix: Water
Date Received: 05/29/24 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	RSK-175			512401	HQR6	ELLE	05/31/24 10:23
Total/NA	Analysis	RSK-175		1	512348	LXF2	ELLE	05/31/24 11:29

Client Sample ID: 50WW12_052224_a
Lab Sample ID: 410-173670-2
Date Collected: 05/22/24 09:25
Matrix: Water
Date Received: 05/29/24 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	RSK-175			512401	HQR6	ELLE	05/31/24 10:23
Total/NA	Analysis	RSK-175		1	512348	LXF2	ELLE	05/31/24 11:36

Client Sample ID: 50WW06_052224
Lab Sample ID: 410-173670-3
Date Collected: 05/22/24 10:20
Matrix: Water
Date Received: 05/29/24 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	RSK-175			512401	HQR6	ELLE	05/31/24 10:23
Total/NA	Analysis	RSK-175		1	512348	LXF2	ELLE	05/31/24 11:44

Client Sample ID: 50WW06_052224_a
Lab Sample ID: 410-173670-4
Date Collected: 05/22/24 10:20
Matrix: Water
Date Received: 05/29/24 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	RSK-175			512401	HQR6	ELLE	05/31/24 10:23
Total/NA	Analysis	RSK-175		1	512348	LXF2	ELLE	05/31/24 11:52

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: HS24051490

Job ID: 410-173670-1

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: HS24051490

Job ID: 410-173670-1

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

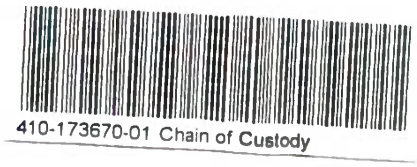
Sample Summary

01333946

Client: ALS Group USA, Corp
Project/Site: HS24051490

Job ID: 410-173670-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
410-173670-1	50WW12_052224	Water	05/22/24 09:25	05/29/24 10:30
410-173670-2	50WW12_052224_a	Water	05/22/24 09:25	05/29/24 10:30
410-173670-3	50WW06_052224	Water	05/22/24 10:20	05/29/24 10:30
410-173670-4	50WW06_052224_a	Water	05/22/24 10:20	05/29/24 10:30



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:** **25793**

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:	Luis.Aguilar
Address:	10450 Stancliff Rd, Ste 210
Phone:	+1 281 530 5656
Email:	luis.aguilar@alsglobal.com
Alternate Contact:	
Email:	

INVOICE INFORMATION:

Company:	ALS Houston
Contact:	Accounts Payable
Address:	10450 Stancliff Rd, Ste 210
Phone:	+1 281 530 5656
Reference:	HS24051490
TSR:	Ron Martino

	LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	COLLECT DATE
	ANALYSIS REQUESTED			DUE DATE
1.	**HS24051490-04**	**50WW12_052224**	**Water**	**22 May 2024 09:25**
	RSK175 CO2; LHAAP; DoD Level IV, LHAAP EQUIS EDD			10 Jun 2024
2.	**HS24051490-05**	**50WW12_052224_a**	**Water**	**22 May 2024 09:25**
	RSK175 CO2; LHAAP; DoD Level IV, LHAAP EQUIS EDD			10 Jun 2024
3.	**HS24051490-06**	**50WW06_052224**	**Water**	**22 May 2024 10:20**
	RSK175 CO2; LHAAP; DoD Level IV, LHAAP EQUIS EDD			10 Jun 2024
4.	**HS24051490-07**	**50WW06_052224_a**	**Water**	**22 May 2024 10:20**
	RSK175 CO2; LHAAP; DoD Level IV, LHAAP EQUIS EDD			10 Jun 2024

Comments: Please analyze for the analysis listed above.
Send report to the emails shown above.

QC Level: DOD IV (DoD Data Package)

Relinquished By: AM Date/Time: 5/28/24 18:00

Received By: Date/Time: 5/29/24 1030

Cooler ID(s): Temperature(s):

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Raw 4.5 - COR 4.6

Login Sample Receipt Checklist

Client: ALS Group USA, Corp

Job Number: 410-173670-1

Login Number: 173670
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 acceptable,where thermal pres is required(</=6C, not frozen).	True	
Cooler Temperature is recorded.	True	
WV:Container Temp acceptable,where thermal pres is required (</=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	

HS24051490-MSVOA-SW8260

ALS WO# HS24051490

01333950

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Form 1

Organic Analysis Data Sheet

Volatiles by EPA Volatiles Organics by Method 8260C

Workorder

HS24051490

Client

Bhate Environmental Associates, Inc.

Project

LHAAP-50

06/24/2024

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.	Workorder	
Project	LHAAP-50	HS24051490	

Volatiles by EPA Volatiles Organics by Method 8260C

50WW09_052224	Collected	Received	Matrix	Basis
HS24051490-01	05/22/24 07:15	05/24/24 09:50	Water	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
1,1-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	05/30/24 17:51	VOA9_468115	U053010.D
1,2-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	05/30/24 17:51	VOA9_468115	U053010.D
cis-1,2-Dichloroethene	ug/L	0.64	J	0.20	1.0	1.0	1	05/30/24 17:51	VOA9_468115	U053010.D
Tetrachloroethene	ug/L	1.0	U	0.30	1.0	1.0	1	05/30/24 17:51	VOA9_468115	U053010.D
Trichloroethene	ug/L	4.7		0.20	1.0	1.0	1	05/30/24 17:51	VOA9_468115	U053010.D
Vinyl chloride	ug/L	1.0	U	0.20	1.0	1.0	1	05/30/24 17:51	VOA9_468115	U053010.D

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP-50

Workorder HS24051490

Volatiles by EPA Volatiles Organics by Method 8260C

50WW08_052224	Collected	Received	Matrix	Basis
HS24051490-02	05/22/24 07:55	05/24/24 09:50	Water	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
1,1-Dichloroethene	ug/L	10	U	2.0	10	10	10	05/30/24 22:57	VOA9_468115	U053024.D
1,2-Dichloroethane	ug/L	10	U	2.0	10	10	10	05/30/24 22:57	VOA9_468115	U053024.D
cis-1,2-Dichloroethene	ug/L	93		2.0	10	10	10	05/30/24 22:57	VOA9_468115	U053024.D
Tetrachloroethene	ug/L	10	U	3.0	10	10	10	05/30/24 22:57	VOA9_468115	U053024.D
Trichloroethene	ug/L	820		2.0	10	10	10	05/30/24 22:57	VOA9_468115	U053024.D
Vinyl chloride	ug/L	10	U	2.0	10	10	10	05/30/24 22:57	VOA9_468115	U053024.D

Form 1 - Organic Analysis Data Sheet

Client	Bhate Environmental Associates, Inc.	Workorder	
Project	LHAAP-50	HS24051490	

Volatiles by EPA Volatiles Organics by Method 8260C

50WW23_052224	Collected	Received	Matrix	Basis
HS24051490-03	05/22/24 08:40	05/24/24 09:50	Water	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
1,1-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	05/30/24 05:38	VOA9_468007	W052808.D
1,2-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	05/30/24 05:38	VOA9_468007	W052808.D
cis-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	05/30/24 05:38	VOA9_468007	W052808.D
Tetrachloroethene	ug/L	1.0	U	0.30	1.0	1.0	1	05/30/24 05:38	VOA9_468007	W052808.D
Trichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	05/30/24 05:38	VOA9_468007	W052808.D
Vinyl chloride	ug/L	1.0	U	0.20	1.0	1.0	1	05/30/24 05:38	VOA9_468007	W052808.D

Form 1 - Organic Analysis Data Sheet

Client	Bhate Environmental Associates, Inc.	Workorder	
Project	LHAAP-50	HS24051490	

Volatiles by EPA Volatiles Organics by Method 8260C

50WW12_052224	Collected	Received	Matrix	Basis
HS24051490-04	05/22/24 09:25	05/24/24 09:50	Water	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
1,1-Dichloroethene	ug/L	22		2.0	10	10	10	05/30/24 23:21	VOA9_468115	U053025.D
1,2-Dichloroethane	ug/L	15		2.0	10	10	10	05/30/24 23:21	VOA9_468115	U053025.D
cis-1,2-Dichloroethene	ug/L	10	U	2.0	10	10	10	05/30/24 23:21	VOA9_468115	U053025.D
Tetrachloroethene	ug/L	10	U	3.0	10	10	10	05/30/24 23:21	VOA9_468115	U053025.D
Trichloroethene	ug/L	1,200		2.0	10	10	10	05/30/24 23:21	VOA9_468115	U053025.D
Vinyl chloride	ug/L	10	U	2.0	10	10	10	05/30/24 23:21	VOA9_468115	U053025.D

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP-50

Workorder HS24051490

Volatiles by EPA Volatiles Organics by Method 8260C

50WW12_052224_a	Collected	Received	Matrix	Basis
HS24051490-05	05/22/24 09:25	05/24/24 09:50	Water	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
1,1-Dichloroethene	ug/L	18		2.0	10	10	10	05/30/24 23:43	VOA9_468115	U053026.D
1,2-Dichloroethane	ug/L	14		2.0	10	10	10	05/30/24 23:43	VOA9_468115	U053026.D
cis-1,2-Dichloroethene	ug/L	10	U	2.0	10	10	10	05/30/24 23:43	VOA9_468115	U053026.D
Tetrachloroethene	ug/L	10	U	3.0	10	10	10	05/30/24 23:43	VOA9_468115	U053026.D
Trichloroethene	ug/L	1,100		2.0	10	10	10	05/30/24 23:43	VOA9_468115	U053026.D
Vinyl chloride	ug/L	10	U	2.0	10	10	10	05/30/24 23:43	VOA9_468115	U053026.D

Form 1 - Organic Analysis Data Sheet

Client	Bhate Environmental Associates, Inc.	Workorder	
Project	LHAAP-50	HS24051490	

Volatiles by EPA Volatiles Organics by Method 8260C

50WW06_052224	Collected	Received	Matrix	Basis
HS24051490-06	05/22/24 10:20	05/24/24 09:50	Water	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
1,1-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	05/30/24 18:12	VOA9_468115	U053011.D
1,2-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	05/30/24 18:12	VOA9_468115	U053011.D
cis-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	05/30/24 18:12	VOA9_468115	U053011.D
Tetrachloroethene	ug/L	1.0	U	0.30	1.0	1.0	1	05/30/24 18:12	VOA9_468115	U053011.D
Trichloroethene	ug/L	11		0.20	1.0	1.0	1	05/30/24 18:12	VOA9_468115	U053011.D
Vinyl chloride	ug/L	1.0	U	0.20	1.0	1.0	1	05/30/24 18:12	VOA9_468115	U053011.D

Form 1 - Organic Analysis Data Sheet

Client	Bhate Environmental Associates, Inc.	Workorder	
Project	LHAAP-50	HS24051490	

Volatiles by EPA Volatiles Organics by Method 8260C

50WW06_052224_a	Collected	Received	Matrix	Basis
HS24051490-07	05/22/24 10:20	05/24/24 09:50	Water	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
1,1-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	05/30/24 18:34	VOA9_468115	U053012.D
1,2-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	05/30/24 18:34	VOA9_468115	U053012.D
cis-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	05/30/24 18:34	VOA9_468115	U053012.D
Tetrachloroethene	ug/L	1.0	U	0.30	1.0	1.0	1	05/30/24 18:34	VOA9_468115	U053012.D
Trichloroethene	ug/L	11		0.20	1.0	1.0	1	05/30/24 18:34	VOA9_468115	U053012.D
Vinyl chloride	ug/L	1.0	U	0.20	1.0	1.0	1	05/30/24 18:34	VOA9_468115	U053012.D

Form 1 - Organic Analysis Data Sheet

Client	Bhate Environmental Associates, Inc.	Workorder	
Project	LHAAP-50	HS24051490	

Volatiles by EPA Volatiles Organics by Method 8260C

Trip Blank

	Collected	Received	Matrix	Basis
HS24051490-08	05/24/24 09:50	05/24/24 09:50	Water	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
1,1-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	05/30/24 17:29	VOA9_468115	U053009.D
1,2-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	05/30/24 17:29	VOA9_468115	U053009.D
cis-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	05/30/24 17:29	VOA9_468115	U053009.D
Tetrachloroethene	ug/L	1.0	U	0.30	1.0	1.0	1	05/30/24 17:29	VOA9_468115	U053009.D
Trichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	05/30/24 17:29	VOA9_468115	U053009.D
Vinyl chloride	ug/L	1.0	U	0.20	1.0	1.0	1	05/30/24 17:29	VOA9_468115	U053009.D

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Form 2

System Monitoring Compound Recovery

Volatiles by EPA Volatiles Organics by Method 8260C

Workorder

HS24051490

Client

Bhate Environmental Associates, Inc.

Project

LHAAP-50

06/24/2024

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-50

Workorder HS24051490

Volatiles by EPA Volatiles Organics by Method 8260C

RUNID VOA9-468007

50WW23_052224

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	HS24051490-03	Water	05/30/24 05:38	%REC	1
Instrument ID	VOA9				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	W052808.D	59	50	118		81-118
4-Bromofluorobenzene	W052808.D	56	50	112		85-114
Dibromofluoromethane	W052808.D	58	50	116		80-119
Toluene-d8	W052808.D	55	50	110		89-112

50WW23_052224

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	HS24051490-03MS	Aqueous	05/30/24 05:59	%REC	1
Instrument ID	VOA9				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	W052809.D	57.99	50	116		81-118
4-Bromofluorobenzene	W052809.D	56.47	50	113		85-114
Dibromofluoromethane	W052809.D	59.03	50	118		80-119
Toluene-d8	W052809.D	56.63	50	113		89-112

50WW23_052224

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	HS24051490-03MSD	Aqueous	05/30/24 06:21	%REC	1
Instrument ID	VOA9				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	W052810.D	57.17	50	114		81-118
4-Bromofluorobenzene	W052810.D	56.42	50	113		85-114
Dibromofluoromethane	W052810.D	57.9	50	116		80-119
Toluene-d8	W052810.D	57.32	50	115		89-112

Form 2 - System Monitoring Compound Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP-50

Workorder HS24051490

Volatiles by EPA Volatiles Organics by Method 8260C

RUNID VOA9-468007

VBLKW-240529

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	VBLKW-240529	Aqueous	05/30/24 04:55	%REC	1
Instrument ID	VOA9				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	W052806.D	58.25	50	117		81-118
4-Bromofluorobenzene	W052806.D	54.55	50	109		85-114
Dibromofluoromethane	W052806.D	56.36	50	113		80-119
Toluene-d8	W052806.D	55.78	50	112		89-112

VLCSW-240529

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	VLCSW-240529	Aqueous	05/30/24 03:50	%REC	1
Instrument ID	VOA9				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	W052803.D	58.95	50	118		81-118
4-Bromofluorobenzene	W052803.D	55.58	50	111		85-114
Dibromofluoromethane	W052803.D	58.13	50	116		80-119
Toluene-d8	W052803.D	55.54	50	111		89-112

VSTD050

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	VSTD050	Aqueous	05/30/24 03:28	%REC	1
Instrument ID	VOA9				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	W052802.D	57	50	114		80-120
4-Bromofluorobenzene	W052802.D	58.99	50	118		80-120
Dibromofluoromethane	W052802.D	58.12	50	116		80-120
Toluene-d8	W052802.D	58.1	50	116		80-120

Form 2 - System Monitoring Compound Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP-50

Workorder HS24051490

Volatiles by EPA Volatiles Organics by Method 8260C

RUNID VOA9-468115

50WW09_052224

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	HS24051490-01	Water	05/30/24 17:51	%REC	1
Instrument ID	VOA9				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	U053010.D	59	50	117		81-118
4-Bromofluorobenzene	U053010.D	56	50	113		85-114
Dibromofluoromethane	U053010.D	57	50	114		80-119
Toluene-d8	U053010.D	56	50	112		89-112

50WW08_052224

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	HS24051490-02	Water	05/30/24 22:57	%REC	10
Instrument ID	VOA9				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	U053024.D	580	500	116		81-118
4-Bromofluorobenzene	U053024.D	530	500	107		85-114
Dibromofluoromethane	U053024.D	560	500	112		80-119
Toluene-d8	U053024.D	550	500	111		89-112

50WW12_052224

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	HS24051490-04	Water	05/30/24 23:21	%REC	10
Instrument ID	VOA9				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	U053025.D	590	500	117		81-118
4-Bromofluorobenzene	U053025.D	530	500	107		85-114
Dibromofluoromethane	U053025.D	570	500	114		80-119
Toluene-d8	U053025.D	550	500	110		89-112

Form 2 - System Monitoring Compound Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP-50

Workorder HS24051490

Volatiles by EPA Volatiles Organics by Method 8260C

RUNID VOA9-468115

50WW12_052224_a

Matrix	Analysis Date	Conc Units	Dilution
Water	05/30/24 23:43	%REC	10

Lab Sample ID HS24051490-05

Instrument ID VOA9

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	U053026.D	590	500	118		81-118
4-Bromofluorobenzene	U053026.D	550	500	111		85-114
Dibromofluoromethane	U053026.D	580	500	116		80-119
Toluene-d8	U053026.D	560	500	111		89-112

50WW12_052224_a

Matrix	Analysis Date	Conc Units	Dilution
Aqueous	05/31/24 00:04	%REC	10

Lab Sample ID HS24051490-05MS

Instrument ID VOA9

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	U053027.D	581.7	500	116		81-118
4-Bromofluorobenzene	U053027.D	586	500	117		85-114
Dibromofluoromethane	U053027.D	580	500	116		80-119
Toluene-d8	U053027.D	575.4	500	115		89-112

50WW12_052224_a

Matrix	Analysis Date	Conc Units	Dilution
Aqueous	05/31/24 00:26	%REC	10

Lab Sample ID HS24051490-05MSD

Instrument ID VOA9

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	U053028.D	582.1	500	116		81-118
4-Bromofluorobenzene	U053028.D	592.7	500	119		85-114
Dibromofluoromethane	U053028.D	578.8	500	116		80-119
Toluene-d8	U053028.D	579.6	500	116		89-112

Form 2 - System Monitoring Compound Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP-50

Workorder HS24051490

Volatiles by EPA Volatiles Organics by Method 8260C

RUNID VOA9-468115

50WW06_052224

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	HS24051490-06	Water	05/30/24 18:12	%REC	1
Instrument ID	VOA9				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	U053011.D	58	50	115		81-118
4-Bromofluorobenzene	U053011.D	54	50	109		85-114
Dibromofluoromethane	U053011.D	55	50	110		80-119
Toluene-d8	U053011.D	55	50	111		89-112

50WW06_052224_a

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	HS24051490-07	Water	05/30/24 18:34	%REC	1
Instrument ID	VOA9				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	U053012.D	59	50	118		81-118
4-Bromofluorobenzene	U053012.D	54	50	109		85-114
Dibromofluoromethane	U053012.D	57	50	113		80-119
Toluene-d8	U053012.D	56	50	111		89-112

Trip Blank

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	HS24051490-08	Water	05/30/24 17:29	%REC	1
Instrument ID	VOA9				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	U053009.D	58	50	116		81-118
4-Bromofluorobenzene	U053009.D	56	50	111		85-114
Dibromofluoromethane	U053009.D	57	50	113		80-119
Toluene-d8	U053009.D	56	50	111		89-112

Form 2 - System Monitoring Compound Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP-50

Workorder HS24051490

Volatiles by EPA Volatiles Organics by Method 8260C

RUNID VOA9-468115

VBLKW-240530

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	VBLKW-240530	Aqueous	05/30/24 16:25	%REC	1
Instrument ID	VOA9				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	U053006.D	58.14	50	116		81-118
4-Bromofluorobenzene	U053006.D	56.36	50	113		85-114
Dibromofluoromethane	U053006.D	55.81	50	112		80-119
Toluene-d8	U053006.D	55.97	50	112		89-112

VLCSW-240530

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	VLCSW-240530	Aqueous	05/30/24 15:19	%REC	1
Instrument ID	VOA9				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	U053003.D	55.45	50	111		81-118
4-Bromofluorobenzene	U053003.D	56.26	50	113		85-114
Dibromofluoromethane	U053003.D	56.83	50	114		80-119
Toluene-d8	U053003.D	55.47	50	111		89-112

VSTD050

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	VSTD050	Aqueous	05/30/24 14:58	%REC	1
Instrument ID	VOA9				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	U053002.D	56.67	50	113		80-120
4-Bromofluorobenzene	U053002.D	57.13	50	114		80-120
Dibromofluoromethane	U053002.D	58.78	50	118		80-120
Toluene-d8	U053002.D	57.8	50	116		80-120

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Form 3A

Matrix Spike/Spike Duplicate Recovery

Volatiles by EPA Volatiles Organics by Method 8260C

Workorder

HS24051490

Client

Bhate Environmental Associates, Inc.

Project

LHAAP-50

06/24/2024

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-50

Workorder **HS24051490**

SAMPLENUM HS24051490-03MS

Volatiles by EPA Volatiles Organics by Method 8260C

50WW23_052224 (HS24051490-03)			HS24051490-03MS		HS24051490-03MSD	
Spike Matrix Aqueous	Result Units ug/L		Run Date 05/30/24		Run Date 05/30/24	
Instrument ID VOA9			Run Time 05:59		Run Time 06:21	
			Data File W052809.D		Data File W052810.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-Dichloroethene	71-131	1	0	19.0815	20	95		18.5580	20	93		20	2.78	
1,2-Dichloroethane	73-128	1	0	19.6925	20	98		19.2988	20	96		20	2.02	
cis-1,2-Dichloroethene	78-123	1	0	16.8166	20	84		16.7791	20	84		20	0.223	
Tetrachloroethene	74-129	1	0	19.2407	20	96		19.1544	20	96		20	0.45	
Trichloroethene	79-123	1	0	18.0153	20	90		17.9481	20	90		20	0.374	
Vinyl chloride	58-137	1	0	20.0110	20	100		19.6844	20	98		20	1.65	

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-50

Workorder **HS24051490**

SAMPLENUM HS24051490-05MS

Volatiles by EPA Volatiles Organics by Method 8260C

50WW12_052224_a (HS24051490-05)				HS24051490-05MS				HS24051490-05MSD						
Spike Matrix Aqueous	Result Units ug/L			Run Date 05/31/24				Run Date 05/31/24						
Instrument ID VOA9				Run Time 00:04				Run Time 00:26						
				Data File U053027.D				Data File U053028.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-Dichloroethene	71-131	10	17.9	193.942	200	88		191.095	200	87		20	1.48	
1,2-Dichloroethane	73-128	10	13.52	200.614	200	94		192.412	200	89		20	4.17	
cis-1,2-Dichloroethene	78-123	10	0	167.693	200	84		163.411	200	82		20	2.59	
Tetrachloroethene	74-129	10	0	196.018	200	98		188.460	200	94		20	3.93	
Trichloroethene	79-123	10	1067	1232.05	200	82		1172.27	200	52		20	4.97	
Vinyl chloride	58-137	10	0	222.667	200	111		213.931	200	107		20	4	

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 Volatiles Organics by Method 8260C

Workorder

HS24051490

Client

Bhate Environmental Associates, Inc.

Project

LHAAP-50

06/24/2024

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Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Form 3B - Laboratory Control Sample Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP-50

Workorder HS24051490

Volatiles by EPA Volatiles Organics by Method 8260C

SAMPLENUM VLCSW-240529

VOA9_468007			VLCSW-240529				
Spike Matrix Aqueous	Result Units ug/L		Run Date 05/30/24 Run Time 03:50				
Analyte	%Recovery Limits	Spike Added	LCS Result	%R	Q		
1,1-Dichloroethene	71-131	20	18.5	92.5			
1,2-Dichloroethane	73-128	20	19.96	99.8			
cis-1,2-Dichloroethene	78-123	20	17.09	85.4			
Tetrachloroethene	74-129	20	18.99	95.0			
Trichloroethene	79-123	20	17.9	89.5			
Vinyl chloride	58-137	20	19.53	97.7			

Form 3B - Laboratory Control Sample Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP-50

Workorder
HS24051490

SAMPLENUM
VLCSW-240530

Volatiles by EPA Volatiles Organics by Method 8260C

VOA9_468115			VLCSW-240530				
Spike Matrix Aqueous	**Result Units** ug/L		**Run Date** 05/30/24 **Run Time** 15:19				
Analyte	%Recovery Limits	Spike Added	LCS Result	%R	Q		
1,1-Dichloroethene	71-131	20	18.85	94.2			
1,2-Dichloroethane	73-128	20	19.87	99.3			
cis-1,2-Dichloroethene	78-123	20	17.96	89.8			
Tetrachloroethene	74-129	20	19.75	98.7			
Trichloroethene	79-123	20	18.26	91.3			
Vinyl chloride	58-137	20	20.37	102			

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Form 4

Method Blank Summary

Volatiles by EPA Volatiles Organics by Method 8260C

Workorder

HS24051490

Client

Bhate Environmental Associates, Inc.

Project

LHAAP-50

06/24/2024

ALS Environmental–Houston Laboratory
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www.alsglobal.com

Form 4 - Method Blank Summary

Client Bhate Environmental Associates, Inc.

Project LHAAP-50

Workorder HS24051490

Volatiles by EPA Volatiles Organics by Method 8260C

METHOD BLANK	Matrix	Analysis Date	Analysis Batch	Inst ID
VBLKW-240529	Aqueous	05/30/24 04:55	R468007	VOA9

Client Sample ID	Lab Sample ID	Type	Analysis Date	Analysis Batch	Inst ID	FileID
VLCSW-240529	VLCSW-240529	LCS	05/30/24 03:50	R468007	VOA9	W052803.D
50WW23_052224	HS24051490-03	SAMP	05/30/24 05:38	R468007	VOA9	W052808.D
50WW23_052224	HS24051490-03MS	MS	05/30/24 05:59	R468007	VOA9	W052809.D
50WW23_052224	HS24051490-03MSD	MSD	05/30/24 06:21	R468007	VOA9	W052810.D

Form 4 - Method Blank Summary

Client Bhate Environmental Associates, Inc.

Project LHAAP-50

Workorder **HS24051490**

Volatiles by EPA Volatiles Organics by Method 8260C

METHOD BLANK	Matrix	Analysis Date	Analysis Batch	Inst ID
VBLKW-240530	Aqueous	05/30/24 16:25	R468115	VOA9

Client Sample ID	Lab Sample ID	Type	Analysis Date	Analysis Batch	Inst ID	FileID
VLCSW-240530	VLCSW-240530	LCS	05/30/24 15:19	R468115	VOA9	U053003.D
Trip Blank	HS24051490-08	SAMP	05/30/24 17:29	R468115	VOA9	U053009.D
50WW09_052224	HS24051490-01	SAMP	05/30/24 17:51	R468115	VOA9	U053010.D
50WW06_052224	HS24051490-06	SAMP	05/30/24 18:12	R468115	VOA9	U053011.D
50WW06_052224_a	HS24051490-07	SAMP	05/30/24 18:34	R468115	VOA9	U053012.D
50WW08_052224	HS24051490-02	SAMP	05/30/24 22:57	R468115	VOA9	U053024.D
50WW12_052224	HS24051490-04	SAMP	05/30/24 23:21	R468115	VOA9	U053025.D
50WW12_052224_a	HS24051490-05	SAMP	05/30/24 23:43	R468115	VOA9	U053026.D
50WW12_052224_a	HS24051490-05MS	MS	05/31/24 00:04	R468115	VOA9	U053027.D
50WW12_052224_a	HS24051490-05MSD	MSD	05/31/24 00:26	R468115	VOA9	U053028.D

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Form 5

Instrument Performance Check

Volatiles by EPA Volatiles Organics by Method 8260C

Workorder

HS24051490

Client

Bhate Environmental Associates, Inc.

Project

LHAAP-50

06/24/2024

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FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: V9

Lab File ID: U052901 BFB Injection Date: 05/29/24

Instrument ID: VOA9 BFB Injection Time: 1017

GC Column: DB624 ID: 0.25 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	17.3
75	30.0 - 60.0% of mass 95	46.9
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.9
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	Greater than 50.0% of mass 95	93.6
175	5.0 - 9.0% of mass 174	7.8 (8.3)1
176	95.0 - 101.0% of mass 174	90.8 (97.1)1
177	5.0 - 9.0% of mass 176	6.0 (6.6)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD00.25	VSTD00.25	U052902	05/29/24	1039
02	VSTD00.5	VSTD00.5	U052903	05/29/24	1100
03	VSTD001	VSTD001	U052904	05/29/24	1122
04	VSTD002	VSTD002	U052905	05/29/24	1143
05	VSTD005	VSTD005	U052906	05/29/24	1205
06	VSTD020	VSTD020	U052907	05/29/24	1226
07	VSTD050	VSTD050	U052908	05/29/24	1248
08	VSTD100	VSTD100	U052909	05/29/24	1310
09	VSTD150	VSTD150	U052910	05/29/24	1331
10	VSTD200	VSTD200	U052911	05/29/24	1353
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: V9

Lab File ID: U052913 BFB Injection Date: 05/29/24

Instrument ID: VOA9 BFB Injection Time: 1436

GC Column: DB624 ID: 0.25 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	18.3
75	30.0 - 60.0% of mass 95	47.1
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.9
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	Greater than 50.0% of mass 95	87.4
175	5.0 - 9.0% of mass 174	7.3 (8.4)1
176	95.0 - 101.0% of mass 174	84.7 (96.9)1
177	5.0 - 9.0% of mass 176	5.8 (6.9)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD050	VSTD050	U052914	05/29/24	1458
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

Form 5 - Instrument Performance Check

Client Bhate Environmental Associates, Inc.

Project LHAAP-50

Workorder **HS24051490**

Volatiles by EPA Volatiles Organics by Method 8260C

RUNID VOA9-468007

Tune File W052801.D 05/30/24 5/30/2024

m / e	Ion Abundance Criterion	%RA
50	15.0 - 40.0% of mass 95	19.6 (19.6)
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	7.6 (7.63)
173	Less than 2.0% of mass 174	0 (0) 1
174	greater than 50.0% of mass 95	83 (83) 1
175	5.0 - 9.0% of mass 174	7.3 (8.79) 1
176	> 95% but < 101% of mass 174	79.8 (96.2) 1
177	5.0 - 9.0% of mass 176	5.4 (6.8) 2

%RA - Percent Relative Abundance

This check applies to the following analyses

	Lab Samp ID	Type	Date Analyzed	Lab File ID	Sample ID
1	VSTD050	CCV	5/30/2024	W052802	VSTD050
2	VLCSW-	LCS	5/30/2024	W052803	VLCSW-240529
3	VBLKW-	MBLK	5/30/2024	W052806	VBLKW-240529
4	HS24051490-	SAMP	5/30/2024	W052808	50WW23_052224
5	HS24051490-	MS	5/30/2024	W052809	HS24051490-03MS
6	HS24051490-	MSD	5/30/2024	W052810	HS24051490-03MSD
7	CCV	CCV_EN	5/30/2024	W052818	CCV

Form 5 - Instrument Performance Check

Client Bhate Environmental Associates, Inc.

Project LHAAP-50

Workorder **HS24051490**

Volatiles by EPA Volatiles Organics by Method 8260C

RUNID VOA9-468115

Tune File U053001.D 05/30/24 5/30/2024

m / e	Ion Abundance Criterion	%RA
50	15.0 - 40.0% of mass 95	18.3 (18.3)
75	30.0 - 60.0% of mass 95	48.6 (48.6)
95	Base peak, 100% RA	100 (100)
96	5.0 - 9.0% of mass 95	7.1 (7.09)
173	Less than 2.0% of mass 174	0 (0) 1
174	greater than 50.0% of mass 95	84.9 (84.9) 1
175	5.0 - 9.0% of mass 174	7.6 (8.99) 1
176	> 95% but < 101% of mass 174	81.5 (95.9) 1
177	5.0 - 9.0% of mass 176	5.6 (6.93) 2

%RA - Percent Relative Abundance

This check applies to the following analyses

	Lab Samp ID	Type	Date Analyzed	Lab File ID	Sample ID
1	VSTD050	CCV	5/30/2024	U053002	VSTD050
2	VLCSW-	LCS	5/30/2024	U053003	VLCSW-240530
3	VBLKW-	MBLK	5/30/2024	U053006	VBLKW-240530
4	HS24051490-	SAMP	5/30/2024	U053009	Trip Blank
5	HS24051490-	SAMP	5/30/2024	U053010	50WW09_052224
6	HS24051490-	SAMP	5/30/2024	U053011	50WW06_052224
7	HS24051490-	SAMP	5/30/2024	U053012	50WW06_052224_a
8	HS24051490-	SAMP	5/30/2024	U053024	50WW08_052224
9	HS24051490-	SAMP	5/30/2024	U053025	50WW12_052224
10	HS24051490-	SAMP	5/30/2024	U053026	50WW12_052224_a
11	HS24051490-	MS	5/31/2024	U053027	HS24051490-05MS
12	HS24051490-	MSD	5/31/2024	U053028	HS24051490-05MSD
13	CCV	CCV_EN	5/31/2024	U053029	CCV

ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 29-MAY-2024 10:39
End Cal Date : 29-MAY-2024 13:53
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa9.i\U240531.b\8260C.m
Last Edit : 07-Jun-2024 09:02 r.patel

Calibration File Names:
Level 1: \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052902.D
Level 2: \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052903.D
Level 3: \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052904.D
Level 4: \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052905.D
Level 5: \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052906.D
Level 6: \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052907.D
Level 7: \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052908.D
Level 8: \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052909.D
Level 9: \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052910.D
Level 10: \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052911.D

Compound	0.2500000 Level 1	0.5000000 Level 2	1.0000 Level 3	2.0000 Level 4	5.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	50.0000 Level 7	100.0000 Level 8	150.0000 Level 9	200.0000 Level 10							
2 Dichlorodifluoromethane	+++++	0.13303	0.14942	0.19171	0.20212	0.18209					
	0.18930	0.19965	0.21073	0.21952			AVRG		0.18640		15.15313
3 Chloromethane	+++++	6413	8687	12469	21844	75709					
	187210	362966	564726	716916			LINR	-0.01460	0.65713		0.99971
4 Propionitrile	+++++	1595	4715	9364	17004	64665					
	161164	312519	508916	+++++			QUAD	-0.15111	19.31982	-1.48298	0.99987

ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 29-MAY-2024 10:39
End Cal Date : 29-MAY-2024 13:53
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa9.i\U240531.b\8260C.m
Last Edit : 07-Jun-2024 09:02 r.patel

Compound	0.2500000 Level 1 / 50.0000 Level 7	0.5000000 Level 2 / 100.0000 Level 8	1.0000 Level 3 / 150.0000 Level 9	2.0000 Level 4 / 200.0000 Level 10	5.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
5 Vinyl Chloride	+++++	0.31834	0.38026	0.40826	0.37239	0.36186					
	0.35983	0.38068	0.40301	0.41353			AVRG		0.37757		7.83185
6 Bromomethane	+++++	1786	2361	3722	6167	21249					
	48410	88847	+++++	+++++			LINR	-0.04057	0.15858		0.99966
7 Chloroethane	+++++	1090	2279	3382	8259	30548					
	75481	148667	238484	317922			QUAD	-0.00648	3.91983	-0.41583	0.99992
8 Trichlorofluoromethane	+++++	0.31063	0.38253	0.46400	0.48215	0.44355					
	0.45832	0.47620	0.50214	0.51589			AVRG		0.44838		14.33257
9 Acrolein	+++++	367	625	772	1464	3686					
	10580	19417	33211	45520			QUAD	-0.06918	61.69189	-80.69988	0.99925
10 Acetone	+++++	2671	4580	6842	11049	34500					
	82879	158455	258229	309961			QUAD	-0.03625	6.71638	0.19369	0.99772
11 1,1-Dichloroethene	+++++	0.29220	0.34260	0.35646	0.33383	0.31043					
	0.31030	0.32400	0.34282	0.35383			AVRG		0.32961		6.64761

Report Date : 07-Jun-2024 09:12 Page 3

ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 29-MAY-2024 10:39
End Cal Date : 29-MAY-2024 13:53
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa9.i\U240531.b\8260C.m
Last Edit : 07-Jun-2024 09:02 r.patel

Compound	0.2500000 Level 1 / 50.0000 Level 7	0.5000000 Level 2 / 100.0000 Level 8	1.0000 Level 3 / 150.0000 Level 9	2.0000 Level 4 / 200.0000 Level 10	5.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
12 Isobutyl Alcohol	+++++	2723	8488	15290	29987	129741						
	318836	634410	1019170	1572359			QUAD	-0.35860	20.24047	-1.08009	0.99969	
13 Acetonitrile	+++++	0.02899	0.04817	0.04356	0.04061	0.03842						
	0.03864	0.04079	0.04257	0.04328			AVRG		0.04056		12.94972	
14 Allyl Chloride	+++++	2724	8034	14793	29273	113638						
	277594	552669	885047	1175804			QUAD	-0.00482	1.05310	-0.02903	0.99989	
15 Iodomethane	+++++	772	1102	1323	2162	7857						
	23240	+++++	+++++	+++++			QUAD	-0.08181	36.37439	-131	0.99983	<-
16 Acrylonitrile	+++++	973	2714	4999	8324	33195						
	79503	154935	251557	334027			QUAD	-0.02498	7.50995	-0.79006	0.99981	
17 Methylene Chloride	+++++	3188	4998	7689	13562	47173						
	111343	213527	334515	442243			QUAD	-0.02777	2.71449	-0.14016	0.99997	
18 Methyl tert-butyl ether	+++++	2663	7839	14737	28791	111071						
	265805	517202	834255	1108713			QUAD	-0.01056	1.12179	-0.03344	0.99986	

Report Date : 07-Jun-2024 09:12 Page 4

ALS Laboratory Group

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Last Edit : 07-Jun-2024 09:02 r.patel

Compound	0.2500000 Level 1 / 50.0000 Level 7	0.5000000 Level 2 / 100.0000 Level 8	1.0000 Level 3 / 150.0000 Level 9	2.0000 Level 4 / 200.0000 Level 10	5.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
19 Carbon Disulfide	+++++	0.91229	0.94804	0.95577	0.85995	0.84293					
	0.87973	0.92558	0.98079	1.01655			AVRG		0.92463		6.18301
20 trans-1,2-Dichloroethene	+++++	0.37061	0.40903	0.43390	0.36267	0.34445					
	0.34249	0.35005	0.36525	0.37595			AVRG		0.37271		8.19295
21 Vinyl Acetate	+++++	0.21061	0.28071	0.22093	0.16746	0.21287					
	0.21812	0.21590	0.22362	0.23289			AVRG		0.22034		13.21623
22 1,1-Dichloroethane	+++++	0.75128	0.93697	0.81993	0.65628	0.63440					
	0.63515	0.64516	0.67344	0.69132			AVRG		0.71599		14.40292
23 Chloroprene	+++++	0.43361	0.49133	0.56453	0.52423	0.50462					
	0.51624	0.54030	0.57050	0.57975			AVRG		0.52501		8.73969
24 2-Butanone	+++++	0.22032	0.29335	0.25523	0.18866	0.19285					
	0.20394	0.21007	0.22170	0.22489			AVRG		0.22344		14.68818
25 Methacrylonitrile	+++++	638	1920	3297	6036	26774					
	64217	134993	208472	294600			QUAD	-0.00542	4.58251	-0.79478	0.99978

ALS Laboratory Group

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26 2,2-Dichloropropane	+++++	0.42724	0.43832	0.49077	0.43639	0.43003					
	0.45997	0.48616	0.52119	0.53941			AVRG		0.46994		8.83489
27 cis-1,2-Dichloroethene	+++++	0.48622	0.54677	0.53469	0.41904	0.41836					
	0.41961	0.42526	0.43912	0.45372			AVRG		0.46031		11.00258
28 Chloroform	+++++	0.71777	0.84701	0.86193	0.65656	0.64839					
	0.65581	0.65894	0.68314	0.70452			AVRG		0.71490		11.56076
29 Bromochloromethane	+++++	704	1768	3171	6036	25140					
	59781	113406	178579	234915			LINR	0.00550	0.21304		0.99960
31 1,1,1-Trichloroethane	+++++	0.42088	0.39892	0.52218	0.47253	0.48041					
	0.50420	0.53582	0.57606	0.59479			AVRG		0.50064		13.05518
32 1,1-Dichloropropene	+++++	0.38898	0.35081	0.36657	0.35665	0.32223					
	0.34299	0.35647	0.38320	0.39139			AVRG		0.36214		6.31921
33 1,2-Dichloroethane	+++++	1765	4481	8149	15306	61258					
	149897	287619	449209	601098			LINR	0.01199	0.37658		0.99943

ALS Laboratory Group

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34 Carbon Tetrachloride	+++++	0.28747	0.23686	0.24727	0.26052	0.24382					
	0.27888	0.30788	0.33996	0.35051			AVRG		0.28369		14.69311
37 Benzene	+++++	1.35152	1.35135	1.35786	1.08821	1.05427					
	1.06572	1.06520	1.12030	1.14485			AVRG		1.17770		11.45667
38 Trichloroethene	+++++	0.28032	0.31554	0.31681	0.27389	0.26521					
	0.27613	0.27972	0.29757	0.30357			AVRG		0.28986		6.54373
39 Bromodichloromethane	+++++	0.27293	0.33666	0.33156	0.26547	0.29078					
	0.31283	0.32676	0.35023	0.36350			AVRG		0.31675		10.74188
40 Methyl Methacrylate	+++++	511	1060	3031	4802	18720					
	48081	100414	167428	224325			QUAD	0.00631	5.90256	-1.30510	0.99947
41 2-Chloroethylvinyl ether	+++++	505	1330	2568	5106	28955					
	81655	179421	309450	444756			QUAD	0.06521	9.75884	-2.44897	0.99933
42 1,2-Dichloropropane	+++++	0.34676	0.35990	0.37577	0.27333	0.27539					
	0.28045	0.28090	0.29807	0.30492			AVRG		0.31061		12.77398

ALS Laboratory Group

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43 2-Nitropropane	+++++	164	456	922	1819	7738					
	22745	50838	89884	122639			QUAD	0.03571	11.72054	-6.66363	0.99836
44 Dibromomethane	+++++	0.16727	0.22837	0.20593	0.15791	0.16363					
	0.16910	0.17146	0.17778	0.18190			AVRG		0.18037		12.59524
45 4-Methyl-2-Pentanone	+++++	2006	6605	11033	21975	95933					
	249783	496657	794722	1077867			QUAD	0.00798	3.03215	-0.11576	0.99994
46 cis-1,3-Dichloropropene	+++++	1376	3129	6163	13035	62650					
	171538	349144	565316	770716			QUAD	0.01651	2.42687	-0.20124	0.99981
49 Ethyl Methacrylate	+++++	0.30708	0.46783	0.42709	0.34555	0.34110					
	0.35617	0.38285	0.41927	0.43387			AVRG		0.38676		13.72954
50 Toluene	+++++	1.69288	1.61800	1.55178	1.17812	1.20105					
	1.20749	1.21554	1.26838	1.28193			AVRG		1.35724		14.98795
51 trans-1,3-Dichloropropene	+++++	919	2284	4599	9852	49938					
	138911	288024	471401	644492			QUAD	0.02242	2.95276	-0.32272	0.99971

ALS Laboratory Group

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52 2-Hexanone	+++++ / 156001	1203 / 326398	4192 / 541778	6895 / 725984	12848	58293	QUAD	0.03342	4.62722	-0.33633	0.99944
53 1,1,2-Trichloroethane	+++++ / 88934	894 / 172371	2548 / 269298	4925 / 360962	8641	36741	QUAD	-0.00780	4.28542	-0.25329	0.99997
54 1,3-Dichloropropane	+++++ / 0.51660	0.53420 / 0.51477	0.68504 / 0.52833	0.65636 / 0.54038	0.49071	0.50919	AVRG		0.55284		12.43787
55 Dibromochloromethane	+++++ / 106831	788 / 219518	1952 / 353909	3797 / 481854	7567	39282	QUAD	0.01807	3.44826	-0.34347	0.99984
56 Tetrachloroethene	+++++ / 0.23475	0.22468 / 0.24326	0.20096 / 0.25812	0.25521 / 0.25952	0.22637	0.23051	AVRG		0.23704		8.07931
57 1,2-Dibromoethane	+++++ / 0.29096	0.27994 / 0.28921	0.34774 / 0.30301	0.33384 / 0.30625	0.25808	0.27729	AVRG		0.29848		9.42066
58 1-Chlorohexane	+++++ / 80903	4455 / 168663	4740 / 289826	6859 / 389857	11209	32677	QUAD	-0.02291	5.16485	-1.15033	0.99882

ALS Laboratory Group

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59 Chlorobenzene	+++++	0.91065	1.02221	1.03793	0.78537	0.78062						
	0.78708	0.78424	0.81876	0.82885			AVRG		0.86175		12.03900	
60 1,1,1,2-Tetrachloroethane	+++++	0.23039	0.27723	0.29466	0.23537	0.26386						
	0.27758	0.28568	0.30258	0.30760			AVRG		0.27499		9.97539	
61 Ethylbenzene	+++++	2343	3630	7387	14250	57981						
	147348	289334	473626	633308			QUAD	-0.00097	2.57843	-0.16882	0.99975	
62 m,p-Xylenes	+++++	10673	13484	22381	39064	153153						
	376184	741524	1202813	1591481			QUAD	-0.02007	2.00683	-0.04254	0.99972	
63 o-Xylene	+++++	3953	5882	10205	17958	74682						
	182488	356834	578662	767838			LINR	0.01613	0.52538		0.99915	
64 Styrene	+++++	0.78067	0.85269	0.89561	0.70454	0.79183						
	0.81897	0.83597	0.87600	0.89207			AVRG		0.82759		7.46368	
65 cis-1,4-Dichloro-2-butene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	<-

ALS Laboratory Group

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66 Bromoform	+++++	424	1114	2167	4403	22868					
	68173	145408	242102	335082			QUAD	0.03030	5.29646	-1.10154	0.99951
67 Isopropylbenzene	+++++	1.11873	1.02368	1.29388	1.09160	1.14829					
	1.19815	1.23035	1.31552	1.32061			AVRG		1.19342		8.85576
68 1,1,2,2-Tetrachloroethane	+++++	0.79223	1.05849	0.99882	0.75573	0.75739					
	0.76801	0.76648	0.77525	0.80760			AVRG		0.83111		13.73758
71 1,2,3-Trichloropropane	+++++	0.59641	0.85075	0.94990	0.67279	0.69958					
	0.76161	0.78691	0.81902	0.87724			AVRG		0.77936		14.12141
72 trans-1,4-Dichloro-2-butene	+++++	0.07939	0.09446	0.09701	0.06596	0.07305					
	0.08157	0.08825	0.08876	0.10040			AVRG		0.08543		13.36403
73 n-Propylbenzene	+++++	3.17639	2.48766	2.87316	2.35433	2.51268					
	2.61428	2.67893	2.74099	2.81223			AVRG		2.69452		9.07546
74 Bromobenzene	+++++	0.68090	0.78492	0.82901	0.62744	0.63099					
	0.64971	0.63121	0.66597	0.68768			AVRG		0.68754		10.46560

ALS Laboratory Group

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75 1,3,5-Trimethylbenzene	+++++ / 361104	8297 / 721154	10157 / 1177381	18636 / 1562083	34885	146220	QUAD	-0.00635	0.56396	-0.00847	0.99987
76 2-Chlorotoluene	+++++ / 315078	5091 / 613649	8525 / 992742	16959 / 1326171	31374	128707	QUAD	-0.01113	0.66165	-0.01106	0.99991
77 4-Chlorotoluene	+++++ / 1.83407	2.07502 / 1.84260	1.96880 / 1.92052	2.24259 / 1.97114	1.74124	1.81605	AVRG		1.93467		7.90878
78 tert-Butylbenzene	+++++ / 1.54490	1.38716 / 1.57974	1.15836 / 1.72515	1.61671 / 1.71466	1.38738	1.50126	AVRG		1.51281		11.90371
79 1,2,4-Trimethylbenzene	+++++ / 370379	22634 / 733468	22742 / 1177305	30038 / 1562562	43795	154144	QUAD	-0.03863	0.56639	-0.00825	0.99991
80 Pentachloroethane	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
81 sec-Butylbenzene	+++++ / 2.09538	1.95971 / 2.16878	1.53179 / 2.35348	2.15211 / 2.36267	1.83827	2.01639	AVRG		2.05318		12.64246

ALS Laboratory Group

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82 p-Isopropyltoluene	+++++ / 1.83665	1.69530 / 1.89887	1.35834 / 2.05631	1.87751 / 2.07868	1.56188	1.73918	AVRG		1.78919		12.89527	
83 1,3-Dichlorobenzene	+++++ / 1.09876	1.20972 / 1.10157	1.23044 / 1.14530	1.37911 / 1.17630	1.03167	1.07656	AVRG		1.16105		8.95650	
84 1,4-Dichlorobenzene	+++++ / 1.15575	1.47215 / 1.15719	1.46121 / 1.20782	1.56818 / 1.22554	1.17445	1.14991	AVRG		1.28580		12.87550	
85 bis(2-Chloro-isopropyl)ether	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
86 Benzyl Chloride	+++++ / 138884	2950 / 315330	4616 / 539443	7262 / 763055	12197	47617	QUAD	0.02327	2.51645	-0.30363	0.99893	
87 n-Butylbenzene	+++++ / 312016	6464 / 641821	7427 / 1065723	14661 / 1416365	28223	121510	QUAD	0.00444	0.63769	-0.01283	0.99971	
88 1,2-Dichlorobenzene	+++++ / 1.09643	1.29571 / 1.09704	1.41440 / 1.13793	1.43005 / 1.16713	1.08630	1.10145	AVRG		1.20294		11.64085	

ALS Laboratory Group

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89 1,2-Dibromo-3-Chloropropane	+++++	128	485	786	1716	6942					
	20853	43093	72928	101593			QUAD	0.01657	9.75914	-4.16378	0.99969
90 1,2,4-Trichlorobenzene	+++++	0.71072	0.74863	0.88616	0.62940	0.70252					
	0.73323	0.76145	0.81529	0.83432			AVRG		0.75797		10.22986
91 Hexachlorobutadiene	+++++	0.33200	0.26055	0.33657	0.26420	0.28467					
	0.27888	0.29560	0.33945	0.34514			AVRG		0.30412		11.23611
92 Naphthalene	+++++	7391	11206	19031	32575	140782					
	365632	733059	1179542	1590132			QUAD	-0.00408	0.56192	-0.00904	0.99995
93 1,2,3-Trichlorobenzene	+++++	0.66500	0.69907	0.83256	0.61164	0.66915					
	0.68198	0.69832	0.73642	0.76088			AVRG		0.70611		9.03810
130 Ethyl Acetate	+++++	0.43026	0.57763	0.52848	0.39835	0.42892					
	0.43624	0.43180	0.44724	0.46577			AVRG		0.46052		12.31489
131 Methyl Acrylate	+++++	1262	3957	7361	13966	52347					
	131096	259299	426664	566657			QUAD	-0.00447	2.24925	-0.15801	0.99971

ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 29-MAY-2024 10:39
End Cal Date : 29-MAY-2024 13:53
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa9.i\U240531.b\8260C.m
Last Edit : 07-Jun-2024 09:02 r.patel

Compound	0.2500000 Level 1 / 50.0000 Level 7	0.5000000 Level 2 / 100.0000 Level 8	1.0000 Level 3 / 150.0000 Level 9	2.0000 Level 4 / 200.0000 Level 10	5.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
132 n-Butanol	+++++	0.01175	0.01513	0.01494	0.01202	0.01109					
	0.01204	0.01348	0.01502	0.01576			AVRG		0.01347		13.21525
133 Ethyl Acrylate	+++++	1801	5916	9698	23229	94734					
	249751	512252	834322	1129810			QUAD	0.00957	1.15612	-0.04698	0.99983
134 Cyclohexanone	+++++	969	2910	6019	11414	42427					
	104997	221511	367899	459191			QUAD	0.21161	35.22118	-0.86577	0.99858
135 1,4-Dioxane	538	700	1066	1835	3681	12564					
	28576	56513	95387	124297			QUAD	-0.34629	205	-66.69702	0.99920
136 n-Hexane	+++++	1203	1300	3412	9230	36389					
	91764	189432	315804	415342			QUAD	0.01229	3.06226	-0.30297	0.99937
137 n-Pentane	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000
138 Freon TF	+++++	683	1010	2974	7685	30656					
	78742	158195	258556	345384			QUAD	0.00840	3.68306	-0.42555	0.99980

ALS Laboratory Group

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Compound	0.2500000 Level 1 / 50.0000 Level 7	0.5000000 Level 2 / 100.0000 Level 8	1.0000 Level 3 / 150.0000 Level 9	2.0000 Level 4 / 200.0000 Level 10	5.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
146 Methyl Acetate	+++++ / 112240	1181 / 212417	3707 / 330134	6657 / 440647	11748	45615	LINR	0.00517	0.39776		0.99948
147 Methylcyclohexane	+++++ / 249751	1801 / 512252	5794 / 834322	9698 / 1129810	23229	94734	QUAD	0.01150	1.65506	-0.09354	0.99975
149 Isopropyl alcohol	+++++ / 157210	1852 / 314658	4800 / 520251	9638 / +++++	17652	63121	QUAD	-0.34137	39.65866	-3.84749	0.99994
152 Amyl alcohol	+++++ / 77196	468 / 167778	1733 / 285246	3250 / 393449	7303	29249	QUAD	0.37441	92.55002	-18.10291	0.99935
150 Allyl alcohol	+++++ / 91764	1203 / 189432	1300 / 315804	3412 / 415342	9230	36389	QUAD	0.24576	61.24528	-6.05945	0.99937
151 4-Methyl-2-pentanol	+++++ / 647574	5007 / 1368113	14569 / 2335055	29478 / 3204773	63851	254940	QUAD	0.24823	12.57753	-0.34866	0.99934
148 Tert-butyl alcohol	+++++ / 200951	2390 / 398358	6404 / 659260	12205 / +++++	24373	82537	QUAD	-0.43226	31.21599	-2.33858	0.99989

ALS Laboratory Group

INITIAL CALIBRATION DATA

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Last Edit : 07-Jun-2024 09:02 r.patel

Compound	0.2500000 Level 1	0.5000000 Level 2	1.0000 Level 3	2.0000 Level 4	5.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	50.0000 Level 7	100.0000 Level 8	150.0000 Level 9	200.0000 Level 10							
139 Diethyl ether	+++++	846	2295	4189	8354	31782					
	75842	146534	240834	323193			QUAD	-0.01340	3.99670	-0.51795	0.99978
140 1,3-Butadiene	+++++	0.14778	0.18377	0.18637	0.19524	0.18035					
	0.17971	0.18574	0.19886	0.20716			AVRG		0.18500		9.01927
141 Cyclohexane	+++++	6283	6773	9727	17154	54972					
	132365	266868	441425	587963			QUAD	-0.02644	2.24179	-0.17768	0.99958
142 Tetrahydrofuran	+++++	723	1587	2424	5039	17078					
	41576	81311	130444	+++++			QUAD	-0.04414	14.84610	-3.98222	0.99994
143 1-Chlorobutane	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000
144 Nitrobenzene	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000
145 alpha-Methylstyrene	+++++	1085	2613	6078	11677	56994					
	150603	307618	503336	677516			QUAD	0.01141	1.33167	-0.05530	0.99989

ALS Laboratory Group

INITIAL CALIBRATION DATA

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End Cal Date : 29-MAY-2024 13:53
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Last Edit : 07-Jun-2024 09:02 r.patel

Compound	0.2500000 Level 1 / 50.0000 Level 7	0.5000000 Level 2 / 100.0000 Level 8	1.0000 Level 3 / 150.0000 Level 9	2.0000 Level 4 / 200.0000 Level 10	5.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
153 Tetraethyl lead	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	
154 2,3-Dichlorobutane	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	
155 2-Pentanone	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	
156 Diisopropyl ether	+++++	1.19059	1.60666	1.48307	1.22536	1.17650						
	1.14230	1.17838	1.23504	1.25185			AVRG		1.27664		12.43573	
157 n-Heptane	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	<-
158 Dichlorofluoromethane	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	<-
159 Propylene oxide	+++++	+++++	+++++	1149	1607	6665						
	16421	32032	51620	68450			QUAD	-0.02486	36.32301	-17.49531	0.99980	

ALS Laboratory Group

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	50.0000 Level 7	100.0000 Level 8	150.0000 Level 9	200.0000 Level 10								
160 2-Methylnaphthalene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	
161 3-Methyl-1-butanol	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	<-
162 Butyl acrylate	+++++	1363	4624	8351	17657	72944						
	186832	408695	710720	999143			QUAD	0.01659	1.91968	-0.17561	0.99927	
163 Butyl methacrylate	+++++	0.60586	0.52186	0.57595	0.52208	0.54056						
	0.52950	0.57499	0.64418	0.69199			AVRG		0.57855		10.26081	
164 Dicyclopentadiene	+++++	2.86527	3.02354	2.48602	2.43154	2.26888						
	2.37884	2.43479	2.56355	2.62783			AVRG		2.56447		9.42852	
165 4-Vinyl-1-cyclohexene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	
166 1,2,3-Trimethylbenzene	+++++	6866	11411	17012	35395	132826						
	333316	651618	1039375	1391506			LINR	0.01481	1.76937		0.99908	

ALS Laboratory Group

INITIAL CALIBRATION DATA

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Last Edit : 07-Jun-2024 09:02 r.patel

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167 Ethanol	+++++	339	850	1764	3681	12109					
	29366	59044	97976	+++++			QUAD	-0.41167	212	-113	0.99990
168 1-Propanol	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000
170 1,3,5-Trichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000
172 tert-Butyl formate	+++++	0.33040	0.48374	0.46032	0.38402	0.35150					
	0.36425	0.39046	+++++	+++++			AVRG		0.39496		14.35743
173 3,3-Dimethyl-1-butanol	+++++	0.02661	0.04039	0.04248	0.03564	0.03092					
	0.03181	0.03329	0.03727	+++++			AVRG		0.03480		14.98766
174 tert-Amyl methyl ether	+++++	1.00997	1.43039	1.32549	1.11262	1.08450					
	1.03837	1.13730	1.16972	1.22109			AVRG		1.16994		11.67266
175 tert-Butyl ethyl ether	+++++	0.94697	1.48758	1.32750	1.09049	1.04844					
	1.03360	1.05841	1.12760	1.17146			AVRG		1.14356		14.60205

ALS Laboratory Group

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176 tert-Amyl alcohol	+++++	0.03304	0.04837	0.04603	0.03840	0.03515						
	0.03642	0.03905	0.04317	+++++			AVRG		0.03996		13.53625	
177 Dimethyl ether	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	<-
178 Ethylene oxide	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	
179 Hexachloroethane	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	<-
180 1-Methylnaphthalene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	
181 2-Furfural	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	
182 Epichlorohydrin	+++++	323	718	1272	2221	10404						
	29367	61001	103901	+++++			QUAD	0.02457	60.62931	-55.52048	0.99980	

ALS Laboratory Group

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183 2-Methylpropane(1)	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++ /	+++++ /	AVRG		0.000e+000		0.000e+000	
(2)	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++ /	+++++ /	AVRG		0.000e+000		0.000e+000	<-
184 Cyclopentane	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++ /	+++++ /	AVRG		0.000e+000		0.000e+000	
185 Isoprene	+++++ / 22038	81.00000 / 45875	375 / 73860	950 / 98636	2012 /	8609 /	QUAD	0.01301	12.77332	-4.91218	0.99977	
186 Isopentane	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++ /	+++++ /	AVRG		0.000e+000		0.000e+000	
187 n-Amyl acetate	+++++ / 0.51110	0.44806 / 0.54084	0.60235 / 0.58705	0.57948 / 0.61928	0.50185 /	0.49612 /	AVRG		0.54290		10.60908	
188 Isopropyl acetate	+++++ / 0.76539	+++++ / 0.78986	1.00124 / 0.84119	0.92402 / 0.80293	0.74732 /	0.76500 /	AVRG		0.82962		10.76824	<-

ALS Laboratory Group

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189 n-Butyl acetate	+++++	0.43327	0.62965	0.56777	0.43192	0.46769						
	0.49841	0.52972	0.56976	0.59596			AVRG		0.52491		13.62368	
190 Propanal	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	
191 n-Buteraldehyde	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	
192 Isobuteraldehyde	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	
193 2-Ethyl-1-hexanol	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	<-
194 Acetaldehyde	+++++	1640	3248	4005	8362	37005						
	97166	187809	305993	417509			QUAD	-0.01475	12.58076	-1.38019	0.99990	
195 Methyl Amyl Ketone	+++++	0.44573	0.68116	0.69063	0.55526	0.54143						
	0.55898	0.60937	0.69341	0.70587			AVRG		0.60909		14.79795	

ALS Laboratory Group

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196 2-Methylpentane	##### / #####	##### / #####	##### / #####	##### / #####	##### /	##### /	AVRG		0.000e+000		0.000e+000	
197 3-Methylpentane	##### / #####	##### / #####	##### / #####	##### / #####	##### /	##### /	AVRG		0.000e+000		0.000e+000	
198 Methylcyclopentane	##### / #####	##### / #####	##### / #####	##### / #####	##### /	##### /	AVRG		0.000e+000		0.000e+000	
199 1-Hexene	##### / #####	##### / #####	##### / #####	##### / #####	##### /	##### /	AVRG		0.000e+000		0.000e+000	
200 Dimethyl Disulfide	##### / 68045	248 / 196799	895 / 406307	1744 / 618005	3903 /	20022 /	QUAD	0.09981	3.80589	-0.91403	0.99215	
201 1-Butene(1)	##### / #####	##### / #####	##### / #####	##### / #####	##### /	##### /	AVRG		0.000e+000		0.000e+000	
(2)	##### / #####	##### / #####	##### / #####	##### / #####	##### /	##### /	AVRG		0.000e+000		0.000e+000	<-

ALS Laboratory Group

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202 Isobutylene	+++++	1036	1518	1892	5256	17507					
	43949	91262	140148	201782			QUAD	-0.01526	6.90463	-1.95784	0.99968
203 2-Ethylhexyl Acrylate	+++++	644	2167	3471	8052	37971					
	121736	271079	460688	+++++			QUAD	0.02697	1.66196	-0.16515	0.99923
M 94 1,2-Dichloroethylene (total)	+++++	0.42842	0.47790	0.48429	0.39085	0.38140					
	0.38105	0.38765	0.40219	0.41484			AVRG		0.41651		9.56374
M 95 Xylenes (total)	+++++	14626	19366	32586	57022	227835					
	558672	1098358	1781475	2359319			QUAD	-0.02661	2.27708	-0.04606	0.99970
$ 30 Dibromofluoromethane	+++++	1637	2993	5220	9474	36896					
	91670	177686	285257	379603			QUAD	-0.01108	3.27132	-0.28058	0.99990
$ 35 1,2-Dichloroethane-d4	+++++	2042	4136	6748	11774	44846					
	104957	204529	321896	430320			LINR	0.00862	0.38761		0.99906
$ 48 Toluene-d8	+++++	7327	12775	20610	36100	142140					
	337359	670353	1052895	1400146			LINR	0.00410	0.95736		0.99965

Report Date : 07-Jun-2024 09:12 Page 25

ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 29-MAY-2024 10:39
End Cal Date : 29-MAY-2024 13:53
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
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$ 69 4-Bromofluorobenzene	+++++ / 124362	3574 / 241554	5245 / 383258	8164 / 508465	14171	52184	LINR	-0.00197	0.34704		0.99957

Report Date : 07-Jun-2024 09:12 Page 26

ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 29-MAY-2024 10:39
End Cal Date : 29-MAY-2024 13:53
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa9.i\U240531.b\8260C.m
Last Edit : 07-Jun-2024 09:02 r.patel

Curve	Formula	Units
Averaged	Amt = Rsp/m1	Response
Linear	Amt = b + Rsp/m1	Response
Quad	Amt = b + m1*Rsp + m2*Rsp^2	Response

01334006

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Form 6I

Initial Calibration Verification (ICV)

Volatiles by EPA Volatiles Organics by Method 8260C

Workorder

HS24051490

Client

Bhate Environmental Associates, Inc.

Project

LHAAP-50

06/24/2024

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

Form 6I Initial Calibration Verification (ICV)

Client Bhate Environmental Associates, Inc.
Project LHAAP-50

Workorder HS24051490

RunID U052914.D

Volatiles by EPA Volatiles Organics by Method 8260C

Sample Matrix	LIQUID	**Fraction**	VOA
Lab Smp Id	VSTD050	**Client Smp ID**	VSTD050
Data Type	MS DATA	**SampleType**	METHSPIKE
File ID	U052914.D	**Inj Date**	29-MAY-2024 1458

Compound	Conc Added	Conc Recovered	% Recovered	Limits	Q
1,1,1,2-Tetrachloroethane	50.0	49.5	98.9	80-120	
1,1,1-Trichloroethane	50.0	49.7	99.4	80-120	
1,1,2,2-Tetrachloroethane	50.0	45.6	91.2	80-120	
Freon TF	50.0	47.4	94.8	80-120	
Methyl acetate	50.0	48.3	96.5	80-120	
Cyclohexane	50.0	48.3	96.7	80-120	
Methylcyclohexane	50.0	48.2	96.4	80-120	
Carbon Disulfide	100	93.0	93.0	80-120	
2-Hexanone	100	101	101	80-120	
1,1,2-Trichloroethane	50.0	49.0	98.1	80-120	
1,1-Dichloroethane	50.0	43.2	86.4	80-120	
1,1-Dichloroethene	50.0	46.2	92.5	80-120	
1,1-Dichloropropene	50.0	46.5	93.0	80-120	
1,2,3-Trichlorobenzene	50.0	47.5	95.1	80-120	
1,2,3-Trichloropropane	50.0	47.5	95.1	80-120	
1,2,4-Trichlorobenzene	50.0	46.7	93.4	80-120	
1,2,4-Trimethylbenzene	50.0	47.6	95.2	80-120	
1,2-Dibromo-3-Chloropropane	50.0	49.7	99.4	80-120	
1,2-Dibromoethane	50.0	48.0	96.0	80-120	
Acrolein	100	106	106	80-120	
Acrylonitrile	100	101	101	80-120	
1,2-Dichlorobenzene	50.0	44.4	88.7	80-120	
1,2-Dichloroethane	50.0	47.0	94.1	80-120	
1,2-Dichloropropane	50.0	45.1	90.1	80-120	
1,3,5-Trimethylbenzene	50.0	47.8	95.5	80-120	
1,3-Dichlorobenzene	50.0	45.3	90.6	80-120	
1,3-Dichloropropane	50.0	46.4	92.7	80-120	
1,4-Dichlorobenzene	50.0	43.0	86.1	80-120	
1-Chlorohexane	50.0	47.2	94.4	80-120	
2,2-Dichloropropane	50.0	46.0	92.0	80-120	
2-Butanone	100	93.2	93.2	80-120	
2-Chloroethylvinyl ether	100	102	102	80-120	
2-Chlorotoluene	50.0	48.8	97.5	80-120	
4-Chlorotoluene	50.0	45.3	90.6	80-120	

Form 6I Initial Calibration Verification (ICV)

Client Bhate Environmental Associates, Inc.
Project LHAAP-50

Workorder HS24051490

RunID U052914.D

Volatiles by EPA Volatiles Organics by Method 8260C

Sample Matrix LIQUID
Lab Smp Id VSTD050
Data Type MS DATA
File ID U052914.D

Fraction VOA
Client Smp ID VSTD050
SampleType METHSPIKE
Inj Date 29-MAY-2024 1458

Compound	Conc Added	Conc Recovered	% Recovered	Limits	Q
p-Isopropyltoluene	50.0	49.6	99.2	80-120	
4-Methyl-2-Pentanone	100	101	101	80-120	
Acetone	100	93.8	93.8	80-120	
Acetonitrile	500	470	93.9	80-120	
Allyl Chloride	50.0	48.8	97.5	80-120	
Benzene	50.0	43.5	87.1	80-120	
Bromobenzene	50.0	44.7	89.5	80-120	
Bromochloromethane	50.0	47.9	95.8	80-120	
Bromodichloromethane	50.0	48.2	96.4	80-120	
Bromoform	50.0	48.2	96.4	80-120	
Bromomethane	50.0	50.9	102	80-120	
Carbon Tetrachloride	50.0	49.6	99.2	80-120	
Chlorobenzene	50.0	44.4	88.8	80-120	
Chloroethane	50.0	50.8	102	80-120	
Chloroform	50.0	44.6	89.2	80-120	
Chloromethane	50.0	46.2	92.3	80-120	
Chloroprene	50.0	48.9	97.7	80-120	
cis-1,2-Dichloroethene	50.0	43.8	87.7	80-120	
cis-1,3-Dichloropropene	50.0	48.2	96.5	80-120	
Dibromochloromethane	50.0	48.7	97.5	80-120	
Dibromomethane	50.0	45.8	91.6	80-120	
Dichlorodifluoromethane	50.0	50.1	100	80-120	
Ethylbenzene	50.0	48.7	97.5	80-120	
Ethyl Methacrylate	50.0	46.7	93.3	80-120	
Iodomethane	100	114	114	80-120	
Isobutyl Alcohol	1000	1029	103	70-130	
Propionitrile	500	509	102	70-130	
Hexachlorobutadiene	50.0	45.4	90.9	80-120	
Isopropylbenzene	50.0	49.5	99.0	80-120	
m,p-Xylenes	100	96.4	96.4	80-120	
Methyl tert-butyl ether	50.0	49.8	99.7	80-120	
Methylene Chloride	50.0	48.8	97.6	80-120	
Methacrylonitrile	50.0	51.1	102	80-120	
Methyl Methacrylate	50.0	49.9	99.8	80-120	

Form 6I Initial Calibration Verification (ICV)

Client Bhate Environmental Associates, Inc.
Project LHAAP-50

Workorder HS24051490

RunID U052914.D

Volatiles by EPA Volatiles Organics by Method 8260C

Sample Matrix LIQUID
Lab Smp Id VSTD050
Data Type MS DATA
File ID U052914.D
Fraction VOA
Client Smp ID VSTD050
SampleType METHSPIKE
Inj Date 29-MAY-2024 1458

Compound	Conc Added	Conc Recovered	% Recovered	Limits	Q
n-Butylbenzene	50.0	47.3	94.6	80-120	
n-Propylbenzene	50.0	46.1	92.2	80-120	
Naphthalene	50.0	50.2	100	80-120	
o-Xylene	50.0	46.7	93.4	80-120	
sec-Butylbenzene	50.0	49.1	98.2	80-120	
Styrene	50.0	48.7	97.4	80-120	
tert-Butylbenzene	50.0	49.6	99.2	80-120	
Tetrachloroethene	50.0	48.8	97.6	80-120	
Toluene	50.0	43.6	87.1	80-120	
trans-1,2-Dichloroethene	50.0	44.3	88.7	80-120	
trans-1,3-Dichloropropene	50.0	48.5	97.1	80-120	
trans-1,4-Dichloro-2-butene	50.0	47.5	94.9	80-120	
Trichloroethene	50.0	45.6	91.3	80-120	
Trichlorofluoromethane	50.0	49.8	99.7	80-120	
Vinyl Acetate	100	98.8	98.8	80-120	
Vinyl Chloride	50.0	47.2	94.4	80-120	
Methyl Acrylate	50.0	49.9	99.8	80-120	
Ethyl Acrylate	50.0	48.4	96.9	80-120	
Butyl acrylate	50.0	47.3	94.5	80-120	
2-Ethylhexyl Acrylate	50.0	47.2	94.4	80-120	
Allyl alcohol	1000	930	93.0	80-120	
1,2-Dichloroethylene (total)	100	88.1	88.1	80-120	
Xylenes (total)	150	145	96.6	80-120	
1,4-Dioxane	1000	989	98.9	80-120	
Dibromofluoromethane	50.0	49.4	98.8	71-125	
1,2-Dichloroethane-d4	50.0	46.8	93.7	70-125	
Toluene-d8	50.0	46.8	93.6	75-125	
4-Bromofluorobenzene	50.0	47.3	94.6	72-125	

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Form 7

Continuing Calibration Verification (CCV)

Volatiles by EPA Volatiles Organics by Method 8260C

Workorder

HS24051490

Client

Bhate Environmental Associates, Inc.

Project

LHAAP-50

06/24/2024

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Phone (281) 530-5656 Fax (281) 530-5887
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Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP-50

Workorder HS24051490

RunID U053002.D

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID VOA9.i
Lab File ID U053002.D
Analysis Type WATER
Lab Sample ID VSTD050

Injection Date 30-MAY-2024 1458
ICAL Date(s) 29-MAY-2024, 29-MAY-2024
ICAL Times 10:39, 13:53
Quant Type ISTD

Compound	RRF / RRF / Conc	RF50 / RF50	CCV RRF50	Min RRF	%D / %D / %DRIFT	Max %D / %D / %DRIFT	Curve CURVE TYPE	Q
Dichlorodifluoromethane	0.186	0.187	0.187	0.100	-0.478	20.0	Averaged	
Chloromethane	50.0	51.1	0.682	0.100	-2.270	20.0	Linear	
Propionitrile	500	481	0.053	0.010	3.85	20.0	Quadratic	
Vinyl Chloride	0.378	0.355	0.355	0.100	6.02	20.0	Averaged	
Bromomethane	50.0	43.3	0.144	0.100	13.4	20.0	Linear	
Chloroethane	50.0	48.0	0.253	0.100	4.05	20.0	Quadratic	
Trichlorofluoromethane	0.448	0.437	0.437	0.100	2.62	20.0	Averaged	
Acrolein	100	101	0.018	0.010	-0.639	20.0	Quadratic	
Acetone	100	88.8	0.134	0.100	11.2	20.0	Quadratic	
1,1-Dichloroethene	0.330	0.294	0.294	0.100	10.7	20.0	Averaged	
Isobutyl Alcohol	1000	1009	0.054	0.005	-0.938	20.0	Quadratic	
Acetonitrile	0.041	0.038	0.038	0.005	7.36	20.0	Averaged	
Allyl Chloride	50.0	46.7	0.914	0.100	6.64	20.0	Quadratic	
Iodomethane	100	111	0.090	0.100	-11.466	20.0	Quadratic	*
Acrylonitrile	100	93.4	0.130	0.050	6.62	20.0	Quadratic	
Methylene Chloride	50.0	47.9	0.370	0.100	4.29	20.0	Quadratic	
Methyl tert-butyl ether	50.0	47.0	0.870	0.100	5.98	20.0	Quadratic	
Carbon Disulfide	0.925	0.809	0.809	0.100	12.5	20.0	Averaged	
trans-1,2-Dichloroethene	0.373	0.325	0.325	0.100	12.9	20.0	Averaged	
Vinyl Acetate	0.220	0.209	0.209	0.010	5.13	20.0	Averaged	
1,1-Dichloroethane	0.716	0.616	0.616	0.200	13.9	20.0	Averaged	
Chloroprene	0.525	0.496	0.496	0.100	5.57	20.0	Averaged	
2-Butanone	0.223	0.198	0.198	0.100	11.4	20.0	Averaged	
Methacrylonitrile	50.0	51.7	0.236	0.100	-3.382	20.0	Quadratic	
2,2-Dichloropropane	0.470	0.442	0.442	0.100	5.98	20.0	Averaged	
cis-1,2-Dichloroethene	0.460	0.390	0.390	0.100	15.2	20.0	Averaged	
Chloroform	0.715	0.631	0.631	0.200	11.7	20.0	Averaged	
Bromochloromethane	50.0	45.0	0.191	0.100	9.94	20.0	Linear	
30 Dibromofluoromethane	50.0	58.8	0.375	0.100	-17.561	20.0	Quadratic	
1,1,1-Trichloroethane	0.501	0.480	0.480	0.100	4.14	20.0	Averaged	
1,1-Dichloropropene	0.362	0.317	0.317	0.100	12.4	20.0	Averaged	
1,2-Dichloroethane	50.0	46.5	0.345	0.100	7.07	20.0	Linear	
Carbon Tetrachloride	0.284	0.254	0.254	0.100	10.3	20.0	Averaged	
35 1,2-Dichloroethane-d4	50.0	56.7	0.436	0.100	-13.350	20.0	Linear	

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP-50

Workorder HS24051490

RunID U053002.D

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID VOA9.i
Lab File ID U053002.D
Analysis Type WATER
Lab Sample ID VSTD050

Injection Date 30-MAY-2024 1458
ICAL Date(s) 29-MAY-2024, 29-MAY-2024
ICAL Times 10:39, 13:53
Quant Type ISTD

Compound	RRF / RRF / Conc	RF50 / RF50	CCV RRF50	Min RRF	%D / %D / %DRIFT	Max %D / %D / %DRIFT	Curve CURVE TYPE	Q
Benzene	1.18	1.01	1.01	0.500	13.9	20.0	Averaged	
Trichloroethene	0.290	0.248	0.248	0.200	14.3	20.0	Averaged	
Bromodichloromethane	0.317	0.285	0.285	0.200	10.1	20.0	Averaged	
Methyl Methacrylate	50.0	45.2	0.158	0.100	9.60	20.0	Quadratic	
2-Chloroethylvinyl ether	100	87.0	0.090	0.001	13.0	20.0	Quadratic	
1,2-Dichloropropane	0.311	0.269	0.269	0.100	13.2	20.0	Averaged	
2-Nitropropane	50.0	45.3	0.078	0.000	9.38	20.0	Quadratic	
Dibromomethane	0.180	0.158	0.158	0.100	12.5	20.0	Averaged	
4-Methyl-2-Pentanone	100	93.8	0.316	0.100	6.16	20.0	Quadratic	
cis-1,3-Dichloropropene	50.0	45.6	0.381	0.200	8.80	20.0	Quadratic	
48 Toluene-d8	50.0	57.8	1.10	0.100	-15.605	20.0	Linear	
Ethyl Methacrylate	0.387	0.329	0.329	0.100	15.1	20.0	Averaged	
Toluene	1.36	1.11	1.11	0.400	17.9	20.0	Averaged	
trans-1,3-Dichloropropene	50.0	45.7	0.312	0.100	8.64	20.0	Quadratic	
2-Hexanone	100	94.0	0.206	0.100	6.04	20.0	Quadratic	
1,1,2-Trichloroethane	50.0	46.4	0.221	0.100	7.21	20.0	Quadratic	
1,3-Dichloropropane	0.553	0.482	0.482	0.100	12.9	20.0	Averaged	
Dibromochloromethane	50.0	43.7	0.255	0.100	12.7	20.0	Quadratic	
Tetrachloroethene	0.237	0.215	0.215	0.200	9.18	20.0	Averaged	
1,2-Dibromoethane	0.298	0.265	0.265	0.100	11.2	20.0	Averaged	
1-Chlorohexane	50.0	45.2	0.187	0.100	9.57	20.0	Quadratic	
Chlorobenzene	0.862	0.713	0.713	0.500	17.3	20.0	Averaged	
1,1,1,2-Tetrachloroethane	0.275	0.245	0.245	0.100	11.0	20.0	Averaged	
Ethylbenzene	50.0	45.2	0.359	0.100	9.70	20.0	Quadratic	
m,p-Xylenes	100	89.2	0.458	0.100	10.8	20.0	Quadratic	
o-Xylene	50.0	43.0	0.443	0.300	14.1	20.0	Linear	
Styrene	0.828	0.749	0.749	0.300	9.52	20.0	Averaged	
Bromoform	50.0	41.5	0.156	0.100	16.9	20.0	Quadratic	
Isopropylbenzene	1.19	1.08	1.08	0.100	9.41	20.0	Averaged	
1,1,2,2-Tetrachloroethane	0.831	0.718	0.718	0.300	13.6	20.0	Averaged	
69 4-Bromofluorobenzene	50.0	57.1	0.397	0.100	-14.263	20.0	Linear	
1,2,3-Trichloropropane	0.779	0.714	0.714	0.100	8.34	20.0	Averaged	
trans-1,4-Dichloro-2-butene	0.085	0.077	0.077	0.050	10.2	20.0	Averaged	
n-Propylbenzene	2.69	2.44	2.44	0.100	9.44	20.0	Averaged	

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP-50

Workorder HS24051490

RunID U053002.D

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID VOA9.i
Lab File ID U053002.D
Analysis Type WATER
Lab Sample ID VSTD050

Injection Date 30-MAY-2024 1458
ICAL Date(s) 29-MAY-2024, 29-MAY-2024
ICAL Times 10:39, 13:53
Quant Type ISTD

Compound	RRF / RRF / Conc	RF50 / RF50	CCV RRF50	Min RRF	%D / %D / %DRIFT	Max %D / %D / %DRIFT	Curve CURVE TYPE	Q
Bromobenzene	0.688	0.590	0.590	0.100	14.2	20.0	Averaged	
1,3,5-Trimethylbenzene	50.0	46.1	1.69	0.100	7.82	20.0	Quadratic	
2-Chlorotoluene	50.0	46.9	1.47	0.100	6.22	10.0	Quadratic	
4-Chlorotoluene	1.93	1.71	1.71	0.100	11.8	20.0	Averaged	
tert-Butylbenzene	1.51	1.43	1.43	0.100	5.18	20.0	Averaged	
1,2,4-Trimethylbenzene	50.0	45.1	1.70	0.100	9.82	20.0	Quadratic	
sec-Butylbenzene	2.05	1.95	1.95	0.100	4.80	20.0	Averaged	
p-Isopropyltoluene	1.79	1.71	1.71	0.100	4.15	20.0	Averaged	
1,3-Dichlorobenzene	1.16	1.02	1.02	0.600	11.7	20.0	Averaged	
1,4-Dichlorobenzene	1.29	1.08	1.08	0.400	16.2	20.0	Averaged	
Benzyl Chloride	50.0	42.8	0.345	0.010	14.4	20.0	Quadratic	
n-Butylbenzene	50.0	47.0	1.51	0.500	5.99	20.0	Quadratic	
1,2-Dichlorobenzene	1.20	1.02	1.02	0.400	15.4	20.0	Averaged	
1,2-Dibromo-3-Chloropropane	50.0	43.3	0.090	0.050	13.5	20.0	Quadratic	
1,2,4-Trichlorobenzene	0.758	0.672	0.672	0.200	11.3	20.0	Averaged	
Hexachlorobutadiene	0.304	0.303	0.303	0.100	0.337	20.0	Averaged	
Naphthalene	50.0	45.4	1.67	0.200	9.25	20.0	Quadratic	
1,2,3-Trichlorobenzene	0.706	0.617	0.617	0.100	12.6	20.0	Averaged	
Methyl Acetate	50.0	48.2	0.382	0.100	3.55	20.0	Linear	
Freon TF	50.0	47.1	0.262	0.100	5.74	20.0	Quadratic	
Cyclohexane	50.0	47.3	0.449	0.100	5.48	20.0	Quadratic	
Tetrahydrofuran	100	97.0	0.069	0.001	2.99	20.0	Quadratic	
Methylcyclohexane	50.0	45.1	0.555	0.100	9.89	20.0	Quadratic	
1,4-Dioxane	1000	875	0.004	0.001	12.5	20.0	Quadratic	
n-Butanol	0.013	0.011	0.011	0.005	19.0	20.0	Averaged	
n-Hexane	50.0	48.3	0.322	0.100	3.38	20.0	Quadratic	
Diethyl ether	50.0	48.9	0.256	0.100	2.27	20.0	Quadratic	
Tert-butyl alcohol	1000	931	0.032	0.005	6.90	20.0	Quadratic	
Isopropyl alcohol	1000	939	0.025	0.005	6.07	20.0	Quadratic	
Amyl alcohol	1000	860	0.009	0.005	14.0	20.0	Quadratic	
Diisopropyl ether	1.28	1.09	1.09	0.100	14.7	20.0	Averaged	
Butyl acrylate	50.0	43.1	0.460	0.100	13.7	20.0	Quadratic	
n-Amyl acetate	0.543	0.474	0.474	0.100	12.7	20.0	Averaged	
Dicyclopentadiene	2.56	2.16	2.16	0.100	15.9	20.0	Averaged	

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP-50

Workorder HS24051490

RunID U053002.D

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID VOA9.i
Lab File ID U053002.D
Analysis Type WATER
Lab Sample ID VSTD050

Injection Date 30-MAY-2024 1458
ICAL Date(s) 29-MAY-2024, 29-MAY-2024
ICAL Times 10:39, 13:53
Quant Type ISTD

Compound	RRF / RRF / Conc	RF50 / RF50	CCV RRF50	Min RRF	%D / %D / %DRIFT	Max %D / %D / %DRIFT	Curve CURVE TYPE	Q
1,2,3-Trimethylbenzene	50.0	43.9	1.53	0.100	12.3	20.0	Linear	
Ethanol	1000	974	0.005	0.001	2.56	20.0	Quadratic	
tert-Butyl formate	0.395	0.329	0.329	0.100	16.7	20.0	Averaged	
3,3-Dimethyl-1-butanol	0.035	0.029	0.029	0.005	17.8	20.0	Averaged	
tert-Amyl methyl ether	1.17	0.988	0.988	0.005	15.6	20.0	Averaged	
tert-Butyl ethyl ether	1.14	0.972	0.972	0.100	15.0	20.0	Averaged	
tert-Amyl alcohol	0.040	0.033	0.033	0.005	17.6	20.0	Averaged	
4-Methyl-2-pentanol	1000	888	0.072	0.005	11.2	20.0	Quadratic	
1,3-Butadiene	0.185	0.176	0.176	0.100	4.64	20.0	Averaged	
Epichlorohydrin	200	183	0.016	0.001	8.26	20.0	Quadratic	
94 1,2-Dichloroethylene (total	0.417	0.358	0.358	0.200	14.2	20.0	Averaged	
95 Xylenes (total)	150	++++	0.409	0.100	++++	20.0	Quadratic	*
alpha-Methylstyrene	50.0	45.2	0.691	0.100	9.52	20.0	Quadratic	
Ethyl Acetate	0.461	0.418	0.418	0.100	9.21	20.0	Averaged	
Methyl Acrylate	50.0	46.6	0.429	0.100	6.86	20.0	Quadratic	
n-Butyl acetate	0.525	0.461	0.461	0.100	12.2	20.0	Averaged	
Cyclohexanone	1000	820	0.023	0.005	18.0	20.0	Quadratic	
Isoprene	50.0	48.6	0.077	0.010	2.88	20.0	Quadratic	
Isopropyl acetate	0.830	0.736	0.736	0.100	11.3	20.0	Averaged	
Allyl alcohol	1000	966	0.016	0.004	3.38	20.0	Quadratic	
Acetaldehyde	200	190	0.078	0.001	5.18	20.0	Quadratic	
Methyl Amyl Ketone	0.609	0.515	0.515	0.100	15.5	20.0	Averaged	
Dimethyl Disulfide	50.0	31.8	0.146	0.020	36.3	20.0	Quadratic	*
Isobutylene	50.0	50.1	0.154	0.010	-0.181	20.0	Quadratic	
Ethyl Acrylate	50.0	45.9	0.812	0.100	8.24	20.0	Quadratic	
Butyl methacrylate	0.579	0.511	0.511	0.100	11.7	20.0	Averaged	
Propylene oxide	100	98.0	0.028	0.005	2.00	20.0	Quadratic	
2-Ethylhexyl Acrylate	50.0	43.2	0.532	0.100	13.5	20.0	Quadratic	

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP-50

Workorder HS24051490

RunID U053029.D

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID VOA9.i
Lab File ID U053029.D
Analysis Type WATER
Lab Sample ID CCV

Injection Date 31-MAY-2024 0047
ICAL Date(s) 29-MAY-2024, 29-MAY-2024
ICAL Times 10:39, 13:53
Quant Type ISTD

Compound	RRF / RRF / Conc	RF50 / RF50	CCV RRF50	Min RRF	%D / %D / %DRIFT	Max %D / %D / %DRIFT	Curve CURVE TYPE	Q
Dichlorodifluoromethane	0.186	0.199	0.199	0.100	-6.869	50.0	Averaged	
Chloromethane	50.0	55.8	0.744	0.100	-11.683	50.0	Linear	
Propionitrile	500	477	0.052	0.010	4.64	50.0	Quadratic	
Vinyl Chloride	0.378	0.374	0.374	0.100	0.849	50.0	Averaged	
Bromomethane	50.0	41.5	0.138	0.100	17.1	50.0	Linear	
Chloroethane	50.0	50.8	0.268	0.100	-1.568	50.0	Quadratic	
Trichlorofluoromethane	0.448	0.486	0.486	0.100	-8.411	50.0	Averaged	
Acrolein	100	91.4	0.016	0.010	8.62	50.0	Quadratic	
Acetone	100	79.7	0.121	0.100	20.3	50.0	Quadratic	
1,1-Dichloroethene	0.330	0.307	0.307	0.100	6.78	50.0	Averaged	
Isobutyl Alcohol	1000	978	0.052	0.005	2.25	50.0	Quadratic	
Acetonitrile	0.041	0.041	0.041	0.005	-2.211	50.0	Averaged	
Allyl Chloride	50.0	50.0	0.980	0.100	0.098	50.0	Quadratic	
Iodomethane	100	121	0.075	0.100	-21.467	50.0	Quadratic	
Acrylonitrile	100	94.5	0.131	0.050	5.52	50.0	Quadratic	
Methylene Chloride	50.0	49.4	0.382	0.100	1.18	50.0	Quadratic	
Methyl tert-butyl ether	50.0	48.6	0.900	0.100	2.79	50.0	Quadratic	
Carbon Disulfide	0.925	0.853	0.853	0.100	7.74	50.0	Averaged	
trans-1,2-Dichloroethene	0.373	0.329	0.329	0.100	11.6	50.0	Averaged	
Vinyl Acetate	0.220	0.197	0.197	0.010	10.8	50.0	Averaged	
1,1-Dichloroethane	0.716	0.649	0.649	0.200	9.29	50.0	Averaged	
Chloroprene	0.525	0.535	0.535	0.100	-1.953	50.0	Averaged	
2-Butanone	0.223	0.175	0.175	0.100	21.5	50.0	Averaged	
Methacrylonitrile	50.0	49.0	0.224	0.100	2.05	50.0	Quadratic	
2,2-Dichloropropane	0.470	0.388	0.388	0.100	17.5	50.0	Averaged	
cis-1,2-Dichloroethene	0.460	0.395	0.395	0.100	14.3	50.0	Averaged	
Chloroform	0.715	0.655	0.655	0.200	8.41	50.0	Averaged	
Bromochloromethane	50.0	46.5	0.197	0.100	6.91	50.0	Linear	
30 Dibromofluoromethane	50.0	58.5	0.373	0.100	-17.017	50.0	Quadratic	
1,1,1-Trichloroethane	0.501	0.516	0.516	0.100	-3.029	50.0	Averaged	
1,1-Dichloropropene	0.362	0.341	0.341	0.100	5.79	50.0	Averaged	
1,2-Dichloroethane	50.0	49.0	0.364	0.100	2.07	50.0	Linear	
Carbon Tetrachloride	0.284	0.283	0.283	0.100	0.181	50.0	Averaged	
35 1,2-Dichloroethane-d4	50.0	57.6	0.443	0.100	-15.199	50.0	Linear	

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP-50

Workorder HS24051490

RunID U053029.D

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID VOA9.i
Lab File ID U053029.D
Analysis Type WATER
Lab Sample ID CCV

Injection Date 31-MAY-2024 0047
ICAL Date(s) 29-MAY-2024, 29-MAY-2024
ICAL Times 10:39, 13:53
Quant Type ISTD

Compound	RRF / RRF / Conc	RF50 / RF50	CCV RRF50	Min RRF	%D / %D / %DRIFT	Max %D / %D / %DRIFT	Curve CURVE TYPE	Q
Benzene	1.18	1.04	1.04	0.500	11.5	50.0	Averaged	
Trichloroethene	0.290	0.263	0.263	0.200	9.17	50.0	Averaged	
Bromodichloromethane	0.317	0.299	0.299	0.200	5.72	50.0	Averaged	
Methyl Methacrylate	50.0	39.2	0.136	0.100	21.5	50.0	Quadratic	
2-Chloroethylvinyl ether	100	80.0	0.082	0.001	20.0	50.0	Quadratic	
1,2-Dichloropropane	0.311	0.285	0.285	0.100	8.17	50.0	Averaged	
2-Nitropropane	50.0	45.9	0.079	0.000	8.28	50.0	Quadratic	
Dibromomethane	0.180	0.161	0.161	0.100	10.5	50.0	Averaged	
4-Methyl-2-Pentanone	100	87.7	0.295	0.100	12.3	50.0	Quadratic	
cis-1,3-Dichloropropene	50.0	45.5	0.380	0.200	8.96	50.0	Quadratic	
48 Toluene-d8	50.0	57.4	1.10	0.100	-14.811	50.0	Linear	
Ethyl Methacrylate	0.387	0.332	0.332	0.100	14.2	50.0	Averaged	
Toluene	1.36	1.15	1.15	0.400	14.9	50.0	Averaged	
trans-1,3-Dichloropropene	50.0	44.9	0.307	0.100	10.2	50.0	Quadratic	
2-Hexanone	100	83.8	0.182	0.100	16.2	50.0	Quadratic	
1,1,2-Trichloroethane	50.0	46.8	0.223	0.100	6.31	50.0	Quadratic	
1,3-Dichloropropane	0.553	0.480	0.480	0.100	13.2	50.0	Averaged	
Dibromochloromethane	50.0	44.7	0.261	0.100	10.6	50.0	Quadratic	
Tetrachloroethene	0.237	0.225	0.225	0.200	5.05	50.0	Averaged	
1,2-Dibromoethane	0.298	0.254	0.254	0.100	14.7	50.0	Averaged	
1-Chlorohexane	50.0	49.1	0.204	0.100	1.88	50.0	Quadratic	
Chlorobenzene	0.862	0.745	0.745	0.500	13.6	50.0	Averaged	
1,1,1,2-Tetrachloroethane	0.275	0.256	0.256	0.100	6.99	50.0	Averaged	
Ethylbenzene	50.0	47.1	0.375	0.100	5.84	50.0	Quadratic	
m,p-Xylenes	100	93.9	0.483	0.100	6.14	50.0	Quadratic	
o-Xylene	50.0	45.7	0.471	0.300	8.67	50.0	Linear	
Styrene	0.828	0.780	0.780	0.300	5.77	50.0	Averaged	
Bromoform	50.0	40.1	0.151	0.100	19.7	50.0	Quadratic	
Isopropylbenzene	1.19	1.16	1.16	0.100	2.78	50.0	Averaged	
1,1,2,2-Tetrachloroethane	0.831	0.680	0.680	0.300	18.1	50.0	Averaged	
69 4-Bromofluorobenzene	50.0	58.4	0.406	0.100	-16.871	50.0	Linear	
1,2,3-Trichloropropane	0.779	0.655	0.655	0.100	15.9	50.0	Averaged	
trans-1,4-Dichloro-2-butene	0.085	0.070	0.070	0.050	18.2	50.0	Averaged	
n-Propylbenzene	2.69	2.54	2.54	0.100	5.81	50.0	Averaged	

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP-50

Workorder HS24051490

RunID U053029.D

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID VOA9.i
Lab File ID U053029.D
Analysis Type WATER
Lab Sample ID CCV

Injection Date 31-MAY-2024 0047
ICAL Date(s) 29-MAY-2024, 29-MAY-2024
ICAL Times 10:39, 13:53
Quant Type ISTD

Compound	RRF / RRF / Conc	RF50 / RF50	CCV RRF50	Min RRF	%D / %D / %DRIFT	Max %D / %D / %DRIFT	Curve CURVE TYPE	Q
Bromobenzene	0.688	0.602	0.602	0.100	12.4	50.0	Averaged	
1,3,5-Trimethylbenzene	50.0	47.9	1.75	0.100	4.28	50.0	Quadratic	
2-Chlorotoluene	50.0	49.0	1.54	0.100	2.02	10.0	Quadratic	
4-Chlorotoluene	1.93	1.77	1.77	0.100	8.45	50.0	Averaged	
tert-Butylbenzene	1.51	1.52	1.52	0.100	-0.158	50.0	Averaged	
1,2,4-Trimethylbenzene	50.0	45.8	1.73	0.100	8.34	50.0	Quadratic	
sec-Butylbenzene	2.05	2.05	2.05	0.100	-0.036	50.0	Averaged	
p-Isopropyltoluene	1.79	1.78	1.78	0.100	0.246	50.0	Averaged	
1,3-Dichlorobenzene	1.16	1.05	1.05	0.600	9.85	50.0	Averaged	
1,4-Dichlorobenzene	1.29	1.11	1.11	0.400	13.8	50.0	Averaged	
Benzyl Chloride	50.0	29.9	0.235	0.010	40.2	50.0	Quadratic	
n-Butylbenzene	50.0	47.1	1.52	0.500	5.75	50.0	Quadratic	
1,2-Dichlorobenzene	1.20	1.05	1.05	0.400	13.0	50.0	Averaged	
1,2-Dibromo-3-Chloropropane	50.0	37.7	0.078	0.050	24.7	50.0	Quadratic	
1,2,4-Trichlorobenzene	0.758	0.659	0.659	0.200	13.1	50.0	Averaged	
Hexachlorobutadiene	0.304	0.276	0.276	0.100	9.10	50.0	Averaged	
Naphthalene	50.0	42.4	1.55	0.200	15.3	50.0	Quadratic	
1,2,3-Trichlorobenzene	0.706	0.607	0.607	0.100	14.0	50.0	Averaged	
Methyl Acetate	50.0	48.4	0.383	0.100	3.17	50.0	Linear	
Freon TF	50.0	48.9	0.272	0.100	2.23	50.0	Quadratic	
Cyclohexane	50.0	49.8	0.474	0.100	0.397	50.0	Quadratic	
Tetrahydrofuran	100	96.1	0.069	0.001	3.92	50.0	Quadratic	
Methylcyclohexane	50.0	48.3	0.596	0.100	3.49	50.0	Quadratic	
1,4-Dioxane	1000	746	0.004	0.001	25.4	50.0	Quadratic	
n-Butanol	0.013	0.009	0.009	0.005	32.0	50.0	Averaged	
n-Hexane	50.0	45.9	0.305	0.100	8.25	50.0	Quadratic	
Diethyl ether	50.0	50.5	0.265	0.100	-0.904	50.0	Quadratic	
Tert-butyl alcohol	1000	826	0.028	0.005	17.4	50.0	Quadratic	
Isopropyl alcohol	1000	813	0.022	0.005	18.7	50.0	Quadratic	
Amyl alcohol	1000	760	0.008	0.005	24.0	50.0	Quadratic	
Diisopropyl ether	1.28	1.20	1.20	0.100	5.83	50.0	Averaged	
Butyl acrylate	50.0	44.3	0.473	0.100	11.4	50.0	Quadratic	
n-Amyl acetate	0.543	0.469	0.469	0.100	13.7	50.0	Averaged	
Dicyclopentadiene	2.56	2.46	2.46	0.100	3.93	50.0	Averaged	

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP-50

Workorder HS24051490

RunID U053029.D

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID VOA9.i
Lab File ID U053029.D
Analysis Type WATER
Lab Sample ID CCV

Injection Date 31-MAY-2024 0047
ICAL Date(s) 29-MAY-2024, 29-MAY-2024
ICAL Times 10:39, 13:53
Quant Type ISTD

Compound	RRF / RRF / Conc	RF50 / RF50	CCV RRF50	Min RRF	%D / %D / %DRIFT	Max %D / %D / %DRIFT	Curve CURVE TYPE	Q
1,2,3-Trimethylbenzene	50.0	47.5	1.65	0.100	4.99	50.0	Linear	
Ethanol	1000	859	0.004	0.001	14.1	50.0	Quadratic	
tert-Butyl formate	0.395	0.281	0.281	0.100	28.9	50.0	Averaged	
3,3-Dimethyl-1-butanol	0.035	0.024	0.024	0.005	30.1	50.0	Averaged	
tert-Amyl methyl ether	1.17	1.02	1.02	0.005	12.8	50.0	Averaged	
tert-Butyl ethyl ether	1.14	1.03	1.03	0.100	10.1	50.0	Averaged	
tert-Amyl alcohol	0.040	0.028	0.028	0.005	29.8	50.0	Averaged	
4-Methyl-2-pentanol	1000	820	0.067	0.005	18.0	50.0	Quadratic	
1,3-Butadiene	0.185	0.187	0.187	0.100	-1.266	50.0	Averaged	
Epichlorohydrin	200	173	0.015	0.001	13.5	50.0	Quadratic	
94 1,2-Dichloroethylene (total	0.417	0.362	0.362	0.200	13.1	50.0	Averaged	
95 Xylenes (total)	150	++++	0.440	0.100	++++	50.0	Quadratic	*
alpha-Methylstyrene	50.0	45.9	0.702	0.100	8.12	50.0	Quadratic	
Ethyl Acetate	0.461	0.393	0.393	0.100	14.6	50.0	Averaged	
Methyl Acrylate	50.0	45.8	0.421	0.100	8.49	50.0	Quadratic	
n-Butyl acetate	0.525	0.443	0.443	0.100	15.6	50.0	Averaged	
Cyclohexanone	1000	625	0.018	0.005	37.5	50.0	Quadratic	
Isoprene	50.0	54.0	0.086	0.010	-7.985	50.0	Quadratic	
Isopropyl acetate	0.830	0.714	0.714	0.100	13.9	50.0	Averaged	
Allyl alcohol	1000	918	0.015	0.004	8.25	50.0	Quadratic	
Acetaldehyde	200	325	0.138	0.001	-62.424	50.0	Quadratic	
Methyl Amyl Ketone	0.609	0.498	0.498	0.100	18.3	50.0	Averaged	
Dimethyl Disulfide	50.0	33.1	0.153	0.020	33.8	50.0	Quadratic	
Isobutylene	++++	++++	8.246e+60	0.010	++++	50.0	Quadratic	*
Ethyl Acrylate	50.0	48.5	0.860	0.100	3.05	50.0	Quadratic	
Butyl methacrylate	0.579	0.554	0.554	0.100	4.26	50.0	Averaged	
Propylene oxide	100	112	0.032	0.005	-11.721	50.0	Quadratic	
2-Ethylhexyl Acrylate	50.0	48.4	0.602	0.100	3.17	50.0	Quadratic	

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP-50

Workorder HS24051490

RunID W052802.D

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID VOA9.i
Lab File ID W052802.D
Analysis Type WATER
Lab Sample ID VSTD050

Injection Date 30-MAY-2024 0328
ICAL Date(s) 29-MAY-2024, 29-MAY-2024
ICAL Times 10:39, 13:53
Quant Type ISTD

Compound	RRF / RRF / Conc	RF50 / RF50	CCV RRF50	Min RRF	%D / %D / %DRIFT	Max %D / %D / %DRIFT	Curve CURVE TYPE	Q
Dichlorodifluoromethane	0.186	0.215	0.215	0.100	-15.511	20.0	Averaged	
Chloromethane	50.0	59.4	0.790	0.100	-18.745	20.0	Linear	
Propionitrile	500	487	0.053	0.010	2.55	20.0	Quadratic	
Vinyl Chloride	0.378	0.406	0.406	0.100	-7.482	20.0	Averaged	
Bromomethane	50.0	53.1	0.175	0.100	-6.180	20.0	Linear	
Chloroethane	50.0	56.9	0.301	0.100	-13.703	20.0	Quadratic	
Trichlorofluoromethane	0.448	0.509	0.509	0.100	-13.545	20.0	Averaged	
Acrolein	100	117	0.021	0.010	-17.124	20.0	Quadratic	
Acetone	100	111	0.166	0.100	-10.552	20.0	Quadratic	
1,1-Dichloroethene	0.330	0.333	0.333	0.100	-1.063	20.0	Averaged	
Isobutyl Alcohol	1000	1132	0.061	0.005	-13.194	20.0	Quadratic	
Acetonitrile	0.041	0.039	0.039	0.005	4.79	20.0	Averaged	
Allyl Chloride	50.0	47.8	0.936	0.100	4.41	20.0	Quadratic	
Iodomethane	100	116	0.085	0.100	-15.735	20.0	Quadratic	*
Acrylonitrile	100	94.7	0.131	0.050	5.26	20.0	Quadratic	
Methylene Chloride	50.0	55.5	0.429	0.100	-11.001	20.0	Quadratic	
Methyl tert-butyl ether	50.0	47.8	0.886	0.100	4.30	20.0	Quadratic	
Carbon Disulfide	0.925	0.925	0.925	0.100	-0.083	20.0	Averaged	
trans-1,2-Dichloroethene	0.373	0.366	0.366	0.100	1.88	20.0	Averaged	
Vinyl Acetate	0.220	0.248	0.248	0.010	-12.704	20.0	Averaged	
1,1-Dichloroethane	0.716	0.714	0.714	0.200	0.293	20.0	Averaged	
Chloroprene	0.525	0.586	0.586	0.100	-11.661	20.0	Averaged	
2-Butanone	0.223	0.232	0.232	0.100	-3.864	20.0	Averaged	
Methacrylonitrile	50.0	48.8	0.223	0.100	2.34	20.0	Quadratic	
2,2-Dichloropropane	0.470	0.396	0.396	0.100	15.7	20.0	Averaged	
cis-1,2-Dichloroethene	0.460	0.441	0.441	0.100	4.13	20.0	Averaged	
Chloroform	0.715	0.742	0.742	0.200	-3.756	20.0	Averaged	
Bromochloromethane	50.0	54.0	0.229	0.100	-7.938	20.0	Linear	
30 Dibromofluoromethane	50.0	58.1	0.371	0.100	-16.248	20.0	Quadratic	
1,1,1-Trichloroethane	0.501	0.570	0.570	0.100	-13.802	20.0	Averaged	
1,1-Dichloropropene	0.362	0.375	0.375	0.100	-3.573	20.0	Averaged	
1,2-Dichloroethane	50.0	56.7	0.422	0.100	-13.365	20.0	Linear	
Carbon Tetrachloride	0.284	0.316	0.316	0.100	-11.410	20.0	Averaged	
35 1,2-Dichloroethane-d4	50.0	57.0	0.439	0.100	-13.997	20.0	Linear	

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP-50

Workorder HS24051490

RunID W052802.D

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID VOA9.i
Lab File ID W052802.D
Analysis Type WATER
Lab Sample ID VSTD050

Injection Date 30-MAY-2024 0328
ICAL Date(s) 29-MAY-2024, 29-MAY-2024
ICAL Times 10:39, 13:53
Quant Type ISTD

Compound	RRF / RRF / Conc	RF50 / RF50	CCV RRF50	Min RRF	%D / %D / %DRIFT	Max %D / %D / %DRIFT	Curve CURVE TYPE	Q
Benzene	1.18	1.16	1.16	0.500	1.36	20.0	Averaged	
Trichloroethene	0.290	0.289	0.289	0.200	0.364	20.0	Averaged	
Bromodichloromethane	0.317	0.356	0.356	0.200	-12.442	20.0	Averaged	
Methyl Methacrylate	50.0	45.7	0.160	0.100	8.52	20.0	Quadratic	
2-Chloroethylvinyl ether	100	106	0.111	0.001	-5.937	20.0	Quadratic	
1,2-Dichloropropane	0.311	0.323	0.323	0.100	-4.008	20.0	Averaged	
2-Nitropropane	50.0	50.1	0.087	0.000	-0.213	20.0	Quadratic	
Dibromomethane	0.180	0.192	0.192	0.100	-6.668	20.0	Averaged	
4-Methyl-2-Pentanone	100	113	0.384	0.100	-13.422	20.0	Quadratic	
cis-1,3-Dichloropropene	50.0	52.3	0.440	0.200	-4.604	20.0	Quadratic	
48 Toluene-d8	50.0	58.1	1.11	0.100	-16.194	20.0	Linear	
Ethyl Methacrylate	0.387	0.339	0.339	0.100	12.5	20.0	Averaged	
Toluene	1.36	1.32	1.32	0.400	2.53	20.0	Averaged	
trans-1,3-Dichloropropene	50.0	53.0	0.366	0.100	-5.967	20.0	Quadratic	
2-Hexanone	100	113	0.250	0.100	-13.235	20.0	Quadratic	
1,1,2-Trichloroethane	50.0	57.6	0.275	0.100	-15.272	20.0	Quadratic	
1,3-Dichloropropane	0.553	0.591	0.591	0.100	-6.856	20.0	Averaged	
Dibromochloromethane	50.0	54.2	0.319	0.100	-8.387	20.0	Quadratic	
Tetrachloroethene	0.237	0.251	0.251	0.200	-5.690	20.0	Averaged	
1,2-Dibromoethane	0.298	0.322	0.322	0.100	-7.947	20.0	Averaged	
1-Chlorohexane	50.0	51.9	0.216	0.100	-3.726	20.0	Quadratic	
Chlorobenzene	0.862	0.859	0.859	0.500	0.366	20.0	Averaged	
1,1,1,2-Tetrachloroethane	0.275	0.306	0.306	0.100	-11.239	20.0	Averaged	
Ethylbenzene	50.0	53.4	0.427	0.100	-6.859	20.0	Quadratic	
m,p-Xylenes	100	106	0.548	0.100	-6.473	20.0	Quadratic	
o-Xylene	50.0	51.8	0.536	0.300	-3.603	20.0	Linear	
Styrene	0.828	0.906	0.906	0.300	-9.427	20.0	Averaged	
Bromoform	50.0	51.8	0.198	0.100	-3.653	20.0	Quadratic	
Isopropylbenzene	1.19	1.32	1.32	0.100	-10.712	20.0	Averaged	
1,1,2,2-Tetrachloroethane	0.831	0.842	0.842	0.300	-1.331	20.0	Averaged	
69 4-Bromofluorobenzene	50.0	59.0	0.410	0.100	-17.977	20.0	Linear	
1,2,3-Trichloropropane	0.779	0.824	0.824	0.100	-5.776	20.0	Averaged	
trans-1,4-Dichloro-2-butene	0.085	0.087	0.087	0.050	-1.843	20.0	Averaged	
n-Propylbenzene	2.69	2.78	2.78	0.100	-3.040	20.0	Averaged	

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP-50

Workorder HS24051490

RunID W052802.D

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID VOA9.i
Lab File ID W052802.D
Analysis Type WATER
Lab Sample ID VSTD050

Injection Date 30-MAY-2024 0328
ICAL Date(s) 29-MAY-2024, 29-MAY-2024
ICAL Times 10:39, 13:53
Quant Type ISTD

Compound	RRF / RRF / Conc	RF50 / RF50	CCV RRF50	Min RRF	%D / %D / %DRIFT	Max %D / %D / %DRIFT	Curve CURVE TYPE	Q
Bromobenzene	0.688	0.687	0.687	0.100	0.033	20.0	Averaged	
1,3,5-Trimethylbenzene	50.0	53.0	1.95	0.100	-6.007	20.0	Quadratic	
2-Chlorotoluene	50.0	54.9	1.73	0.100	-9.748	10.0	Quadratic	
4-Chlorotoluene	1.93	1.99	1.99	0.100	-3.113	20.0	Averaged	
tert-Butylbenzene	1.51	1.69	1.69	0.100	-11.862	20.0	Averaged	
1,2,4-Trimethylbenzene	50.0	52.1	1.96	0.100	-4.187	20.0	Quadratic	
sec-Butylbenzene	2.05	2.25	2.25	0.100	-9.359	20.0	Averaged	
p-Isopropyltoluene	1.79	1.93	1.93	0.100	-8.096	20.0	Averaged	
1,3-Dichlorobenzene	1.16	1.19	1.19	0.600	-2.698	20.0	Averaged	
1,4-Dichlorobenzene	1.29	1.25	1.25	0.400	2.91	20.0	Averaged	
Benzyl Chloride	50.0	40.1	0.322	0.010	19.7	20.0	Quadratic	
n-Butylbenzene	50.0	51.2	1.65	0.500	-2.393	20.0	Quadratic	
1,2-Dichlorobenzene	1.20	1.21	1.21	0.400	-0.224	20.0	Averaged	
1,2-Dibromo-3-Chloropropane	50.0	50.8	0.107	0.050	-1.534	20.0	Quadratic	
1,2,4-Trichlorobenzene	0.758	0.779	0.779	0.200	-2.716	20.0	Averaged	
Hexachlorobutadiene	0.304	0.310	0.310	0.100	-2.002	20.0	Averaged	
Naphthalene	50.0	53.8	1.99	0.200	-7.573	20.0	Quadratic	
1,2,3-Trichlorobenzene	0.706	0.730	0.730	0.100	-3.358	20.0	Averaged	
Methyl Acetate	50.0	57.1	0.452	0.100	-14.203	20.0	Linear	
Freon TF	50.0	51.9	0.289	0.100	-3.707	20.0	Quadratic	
Cyclohexane	50.0	54.3	0.517	0.100	-8.538	20.0	Quadratic	
Tetrahydrofuran	100	101	0.072	0.001	-0.722	20.0	Quadratic	
Methylcyclohexane	50.0	46.6	0.575	0.100	6.72	20.0	Quadratic	
1,4-Dioxane	1000	864	0.004	0.001	13.6	20.0	Quadratic	
n-Butanol	0.013	0.011	0.011	0.005	18.0	20.0	Averaged	
n-Hexane	50.0	45.0	0.299	0.100	10.0	20.0	Quadratic	
Diethyl ether	50.0	48.8	0.256	0.100	2.50	20.0	Quadratic	
Tert-butyl alcohol	1000	924	0.032	0.005	7.63	20.0	Quadratic	
Isopropyl alcohol	1000	950	0.026	0.005	4.98	20.0	Quadratic	
Amyl alcohol	1000	891	0.010	0.005	10.9	20.0	Quadratic	
Diisopropyl ether	1.28	1.15	1.15	0.100	9.57	20.0	Averaged	
Butyl acrylate	50.0	43.4	0.463	0.100	13.2	20.0	Quadratic	
n-Amyl acetate	0.543	0.555	0.555	0.100	-2.293	20.0	Averaged	
Dicyclopentadiene	2.56	2.32	2.32	0.100	9.43	20.0	Averaged	

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP-50

Workorder HS24051490

RunID W052802.D

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID VOA9.i
Lab File ID W052802.D
Analysis Type WATER
Lab Sample ID VSTD050

Injection Date 30-MAY-2024 0328
ICAL Date(s) 29-MAY-2024, 29-MAY-2024
ICAL Times 10:39, 13:53
Quant Type ISTD

Compound	RRF / RRF / Conc	RF50 / RF50	CCV RRF50	Min RRF	%D / %D / %DRIFT	Max %D / %D / %DRIFT	Curve CURVE TYPE	Q
1,2,3-Trimethylbenzene	50.0	45.1	1.57	0.100	9.87	20.0	Linear	
Ethanol	1000	963	0.005	0.001	3.74	20.0	Quadratic	
tert-Butyl formate	0.395	0.324	0.324	0.100	17.8	20.0	Averaged	
3,3-Dimethyl-1-butanol	0.035	0.029	0.029	0.005	16.8	20.0	Averaged	
tert-Amyl methyl ether	1.17	1.01	1.01	0.005	13.7	20.0	Averaged	
tert-Butyl ethyl ether	1.14	0.993	0.993	0.100	13.2	20.0	Averaged	
tert-Amyl alcohol	0.040	0.032	0.032	0.005	18.8	20.0	Averaged	
4-Methyl-2-pentanol	1000	915	0.075	0.005	8.49	20.0	Quadratic	
1,3-Butadiene	0.185	0.199	0.199	0.100	-7.795	20.0	Averaged	
Epichlorohydrin	200	178	0.015	0.001	10.9	20.0	Quadratic	
94 1,2-Dichloroethylene (total	0.417	0.404	0.404	0.200	3.12	20.0	Averaged	
95 Xylenes (total)	150	++++	0.490	0.100	++++	20.0	Quadratic	*
alpha-Methylstyrene	50.0	52.1	0.800	0.100	-4.136	20.0	Quadratic	
Ethyl Acetate	0.461	0.497	0.497	0.100	-7.850	20.0	Averaged	
Methyl Acrylate	50.0	47.3	0.436	0.100	5.30	20.0	Quadratic	
n-Butyl acetate	0.525	0.561	0.561	0.100	-6.914	20.0	Averaged	
Cyclohexanone	1000	814	0.023	0.005	18.6	20.0	Quadratic	
Isoprene	50.0	56.6	0.091	0.010	-13.145	20.0	Quadratic	
Isopropyl acetate	0.830	0.841	0.841	0.100	-1.382	20.0	Averaged	
Allyl alcohol	1000	900	0.015	0.004	10.0	20.0	Quadratic	
Acetaldehyde	200	205	0.085	0.001	-2.664	20.0	Quadratic	
Methyl Amyl Ketone	0.609	0.521	0.521	0.100	14.4	20.0	Averaged	
Dimethyl Disulfide	50.0	36.2	0.171	0.020	27.6	20.0	Quadratic	*
Isobutylene	50.0	50.0	0.154	0.010	0.013	20.0	Quadratic	
Ethyl Acrylate	50.0	46.9	0.831	0.100	6.21	20.0	Quadratic	
Butyl methacrylate	0.579	0.507	0.507	0.100	12.3	20.0	Averaged	
Propylene oxide	100	101	0.029	0.005	-0.685	20.0	Quadratic	
2-Ethylhexyl Acrylate	50.0	46.2	0.572	0.100	7.66	20.0	Quadratic	

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP-50

Workorder HS24051490

RunID W052818.D

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID VOA9.i
Lab File ID W052818.D
Analysis Type WATER
Lab Sample ID CCV

Injection Date 30-MAY-2024 0918
ICAL Date(s) 29-MAY-2024, 29-MAY-2024
ICAL Times 10:39, 13:53
Quant Type ISTD

Compound	RRF / RRF / Conc	RF50 / RF50	CCV RRF50	Min RRF	%D / %D / %DRIFT	Max %D / %D / %DRIFT	Curve CURVE TYPE	Q
Dichlorodifluoromethane	0.186	0.151	0.151	0.100	19.1	50.0	Averaged	
Chloromethane	50.0	44.1	0.589	0.100	11.8	50.0	Linear	
Propionitrile	500	457	0.050	0.010	8.67	50.0	Quadratic	
Vinyl Chloride	0.378	0.285	0.285	0.100	24.6	50.0	Averaged	
Bromomethane	50.0	33.3	0.112	0.100	33.3	50.0	Linear	
Chloroethane	50.0	40.1	0.211	0.100	19.8	50.0	Quadratic	
Trichlorofluoromethane	0.448	0.366	0.366	0.100	18.4	50.0	Averaged	
Acrolein	100	76.5	0.013	0.010	23.5	50.0	Quadratic	
Acetone	100	71.8	0.109	0.100	28.2	50.0	Quadratic	
1,1-Dichloroethene	0.330	0.231	0.231	0.100	30.0	50.0	Averaged	
Isobutyl Alcohol	1000	876	0.046	0.005	12.4	50.0	Quadratic	
Acetonitrile	0.041	0.036	0.036	0.005	10.5	50.0	Averaged	
Allyl Chloride	50.0	45.1	0.883	0.100	9.78	50.0	Quadratic	
Iodomethane	100	107	0.045	0.100	-7.087	50.0	Quadratic	
Acrylonitrile	100	90.9	0.126	0.050	9.11	50.0	Quadratic	
Methylene Chloride	50.0	39.5	0.306	0.100	20.9	50.0	Quadratic	
Methyl tert-butyl ether	50.0	44.3	0.819	0.100	11.5	50.0	Quadratic	
Carbon Disulfide	0.925	0.638	0.638	0.100	31.0	50.0	Averaged	
trans-1,2-Dichloroethene	0.373	0.252	0.252	0.100	32.5	50.0	Averaged	
Vinyl Acetate	0.220	0.169	0.169	0.010	23.3	50.0	Averaged	
1,1-Dichloroethane	0.716	0.508	0.508	0.200	29.1	50.0	Averaged	
Chloroprene	0.525	0.417	0.417	0.100	20.5	50.0	Averaged	
2-Butanone	0.223	0.153	0.153	0.100	31.7	50.0	Averaged	
Methacrylonitrile	50.0	44.1	0.201	0.100	11.7	50.0	Quadratic	
2,2-Dichloropropane	0.470	0.228	0.228	0.100	51.5	50.0	Averaged	*
cis-1,2-Dichloroethene	0.460	0.321	0.321	0.100	30.3	50.0	Averaged	
Chloroform	0.715	0.522	0.522	0.200	27.0	50.0	Averaged	
Bromochloromethane	50.0	36.9	0.156	0.100	26.1	50.0	Linear	
30 Dibromofluoromethane	50.0	57.4	0.366	0.100	-14.779	50.0	Quadratic	
1,1,1-Trichloroethane	0.501	0.397	0.397	0.100	20.8	50.0	Averaged	
1,1-Dichloropropene	0.362	0.265	0.265	0.100	26.9	50.0	Averaged	
1,2-Dichloroethane	50.0	40.0	0.297	0.100	20.0	50.0	Linear	
Carbon Tetrachloride	0.284	0.221	0.221	0.100	22.2	50.0	Averaged	
35 1,2-Dichloroethane-d4	50.0	57.3	0.441	0.100	-14.664	50.0	Linear	

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP-50

Workorder HS24051490

RunID W052818.D

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID VOA9.i
Lab File ID W052818.D
Analysis Type WATER
Lab Sample ID CCV

Injection Date 30-MAY-2024 0918
ICAL Date(s) 29-MAY-2024, 29-MAY-2024
ICAL Times 10:39, 13:53
Quant Type ISTD

Compound	RRF / RRF / Conc	RF50 / RF50	CCV RRF50	Min RRF	%D / %D / %DRIFT	Max %D / %D / %DRIFT	Curve CURVE TYPE	Q
Benzene	1.18	0.828	0.828	0.500	29.7	50.0	Averaged	
Trichloroethene	0.290	0.211	0.211	0.200	27.3	50.0	Averaged	
Bromodichloromethane	0.317	0.244	0.244	0.200	22.9	50.0	Averaged	
Methyl Methacrylate	50.0	41.4	0.144	0.100	17.2	50.0	Quadratic	
2-Chloroethylvinyl ether	100	75.3	0.077	0.001	24.7	50.0	Quadratic	
1,2-Dichloropropane	0.311	0.229	0.229	0.100	26.1	50.0	Averaged	
2-Nitropropane	50.0	44.3	0.076	0.000	11.4	50.0	Quadratic	
Dibromomethane	0.180	0.132	0.132	0.100	27.0	50.0	Averaged	
4-Methyl-2-Pentanone	100	74.9	0.250	0.100	25.1	50.0	Quadratic	
cis-1,3-Dichloropropene	50.0	35.1	0.289	0.200	29.8	50.0	Quadratic	
48 Toluene-d8	50.0	57.1	1.09	0.100	-14.209	50.0	Linear	
Ethyl Methacrylate	0.387	0.308	0.308	0.100	20.4	50.0	Averaged	
Toluene	1.36	0.930	0.930	0.400	31.5	50.0	Averaged	
trans-1,3-Dichloropropene	50.0	34.7	0.234	0.100	30.5	50.0	Quadratic	
2-Hexanone	100	73.7	0.159	0.100	26.3	50.0	Quadratic	
1,1,2-Trichloroethane	50.0	39.0	0.186	0.100	22.0	50.0	Quadratic	
1,3-Dichloropropane	0.553	0.400	0.400	0.100	27.6	50.0	Averaged	
Dibromochloromethane	50.0	36.0	0.208	0.100	28.0	50.0	Quadratic	
Tetrachloroethene	0.237	0.177	0.177	0.200	25.5	50.0	Averaged	
1,2-Dibromoethane	0.298	0.216	0.216	0.100	27.6	50.0	Averaged	
1-Chlorohexane	50.0	37.8	0.156	0.100	24.5	50.0	Quadratic	
Chlorobenzene	0.862	0.597	0.597	0.500	30.7	50.0	Averaged	
1,1,1,2-Tetrachloroethane	0.275	0.207	0.207	0.100	24.7	50.0	Averaged	
Ethylbenzene	50.0	37.7	0.299	0.100	24.6	50.0	Quadratic	
m,p-Xylenes	100	74.7	0.383	0.100	25.3	50.0	Quadratic	
o-Xylene	50.0	36.9	0.379	0.300	26.2	50.0	Linear	
Styrene	0.828	0.625	0.625	0.300	24.4	50.0	Averaged	
Bromoform	50.0	33.9	0.125	0.100	32.3	50.0	Quadratic	
Isopropylbenzene	1.19	0.911	0.911	0.100	23.7	50.0	Averaged	
1,1,2,2-Tetrachloroethane	0.831	0.560	0.560	0.300	32.7	50.0	Averaged	
69 4-Bromofluorobenzene	50.0	58.6	0.407	0.100	-17.223	50.0	Linear	
1,2,3-Trichloropropane	0.779	0.532	0.532	0.100	31.8	50.0	Averaged	
trans-1,4-Dichloro-2-butene	0.085	0.054	0.054	0.050	37.0	50.0	Averaged	
n-Propylbenzene	2.69	1.92	1.92	0.100	28.7	50.0	Averaged	

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP-50

Workorder HS24051490

RunID W052818.D

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID VOA9.i
Lab File ID W052818.D
Analysis Type WATER
Lab Sample ID CCV

Injection Date 30-MAY-2024 0918
ICAL Date(s) 29-MAY-2024, 29-MAY-2024
ICAL Times 10:39, 13:53
Quant Type ISTD

Compound	RRF / RRF / Conc	RF50 / RF50	CCV RRF50	Min RRF	%D / %D / %DRIFT	Max %D / %D / %DRIFT	Curve CURVE TYPE	Q
Bromobenzene	0.688	0.473	0.473	0.100	31.2	50.0	Averaged	
1,3,5-Trimethylbenzene	50.0	36.9	1.35	0.100	26.3	50.0	Quadratic	
2-Chlorotoluene	50.0	38.3	1.20	0.100	23.5	10.0	Quadratic	*
4-Chlorotoluene	1.93	1.38	1.38	0.100	28.4	50.0	Averaged	
tert-Butylbenzene	1.51	1.17	1.17	0.100	22.8	50.0	Averaged	
1,2,4-Trimethylbenzene	50.0	35.1	1.33	0.100	29.8	50.0	Quadratic	
sec-Butylbenzene	2.05	1.54	1.54	0.100	24.8	50.0	Averaged	
p-Isopropyltoluene	1.79	1.33	1.33	0.100	25.5	50.0	Averaged	
1,3-Dichlorobenzene	1.16	0.868	0.868	0.600	25.3	50.0	Averaged	
1,4-Dichlorobenzene	1.29	0.868	0.868	0.400	32.5	50.0	Averaged	
Benzyl Chloride	50.0	17.0	0.128	0.010	66.0	50.0	Quadratic	*
n-Butylbenzene	50.0	34.6	1.10	0.500	30.7	50.0	Quadratic	
1,2-Dichlorobenzene	1.20	0.868	0.868	0.400	27.9	50.0	Averaged	
1,2-Dibromo-3-Chloropropane	50.0	32.5	0.067	0.050	35.0	50.0	Quadratic	
1,2,4-Trichlorobenzene	0.758	0.503	0.503	0.200	33.7	50.0	Averaged	
Hexachlorobutadiene	0.304	0.205	0.205	0.100	32.6	50.0	Averaged	
Naphthalene	50.0	35.3	1.29	0.200	29.4	50.0	Quadratic	
1,2,3-Trichlorobenzene	0.706	0.489	0.489	0.100	30.7	50.0	Averaged	
Methyl Acetate	50.0	39.9	0.315	0.100	20.2	50.0	Linear	
Freon TF	50.0	37.2	0.205	0.100	25.5	50.0	Quadratic	
Cyclohexane	50.0	38.6	0.367	0.100	22.8	50.0	Quadratic	
Tetrahydrofuran	100	92.2	0.066	0.001	7.85	50.0	Quadratic	
Methylcyclohexane	50.0	43.6	0.536	0.100	12.8	50.0	Quadratic	
1,4-Dioxane	1000	795	0.004	0.001	20.5	50.0	Quadratic	
n-Butanol	0.013	0.010	0.010	0.005	27.2	50.0	Averaged	
n-Hexane	50.0	29.3	0.191	0.100	41.4	50.0	Quadratic	
Diethyl ether	50.0	46.3	0.243	0.100	7.40	50.0	Quadratic	
Tert-butyl alcohol	1000	854	0.029	0.005	14.6	50.0	Quadratic	
Isopropyl alcohol	1000	863	0.023	0.005	13.7	50.0	Quadratic	
Amyl alcohol	1000	804	0.009	0.005	19.6	50.0	Quadratic	
Diisopropyl ether	1.28	1.07	1.07	0.100	15.9	50.0	Averaged	
Butyl acrylate	50.0	40.4	0.429	0.100	19.2	50.0	Quadratic	
n-Amyl acetate	0.543	0.384	0.384	0.100	29.3	50.0	Averaged	
Dicyclopentadiene	2.56	2.15	2.15	0.100	16.2	50.0	Averaged	

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP-50

Workorder HS24051490

RunID W052818.D

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID VOA9.i
Lab File ID W052818.D
Analysis Type WATER
Lab Sample ID CCV

Injection Date 30-MAY-2024 0918
ICAL Date(s) 29-MAY-2024, 29-MAY-2024
ICAL Times 10:39, 13:53
Quant Type ISTD

Compound	RRF / RRF / Conc	RF50 / RF50	CCV RRF50	Min RRF	%D / %D / %DRIFT	Max %D / %D / %DRIFT	Curve CURVE TYPE	Q
1,2,3-Trimethylbenzene	50.0	41.3	1.44	0.100	17.3	50.0	Linear	
Ethanol	1000	919	0.005	0.001	8.09	50.0	Quadratic	
tert-Butyl formate	0.395	0.293	0.293	0.100	25.8	50.0	Averaged	
3,3-Dimethyl-1-butanol	0.035	0.026	0.026	0.005	24.6	50.0	Averaged	
tert-Amyl methyl ether	1.17	0.977	0.977	0.005	16.5	50.0	Averaged	
tert-Butyl ethyl ether	1.14	0.914	0.914	0.100	20.1	50.0	Averaged	
tert-Amyl alcohol	0.040	0.029	0.029	0.005	26.6	50.0	Averaged	
4-Methyl-2-pentanol	1000	864	0.070	0.005	13.6	50.0	Quadratic	
1,3-Butadiene	0.185	0.137	0.137	0.100	26.1	50.0	Averaged	
Epichlorohydrin	200	162	0.014	0.001	19.1	50.0	Quadratic	
94 1,2-Dichloroethylene (total	0.417	0.286	0.286	0.200	31.3	50.0	Averaged	
95 Xylenes (total)	150	++++	0.351	0.100	++++	50.0	Quadratic	*
alpha-Methylstyrene	50.0	35.5	0.537	0.100	28.9	50.0	Quadratic	
Ethyl Acetate	0.461	0.338	0.338	0.100	26.6	50.0	Averaged	
Methyl Acrylate	50.0	43.8	0.403	0.100	12.3	50.0	Quadratic	
n-Butyl acetate	0.525	0.366	0.366	0.100	30.2	50.0	Averaged	
Cyclohexanone	1000	606	0.017	0.005	39.4	50.0	Quadratic	
Isoprene	50.0	40.7	0.064	0.010	18.6	50.0	Quadratic	
Isopropyl acetate	0.830	0.647	0.647	0.100	22.0	50.0	Averaged	
Allyl alcohol	1000	586	0.010	0.004	41.4	50.0	Quadratic	
Acetaldehyde	200	242	0.101	0.001	-20.804	50.0	Quadratic	
Methyl Amyl Ketone	0.609	0.486	0.486	0.100	20.3	50.0	Averaged	
Dimethyl Disulfide	50.0	31.3	0.143	0.020	37.4	50.0	Quadratic	
Isobutylene	++++	++++	8.246e+60	0.010	++++	50.0	Quadratic	*
Ethyl Acrylate	50.0	43.6	0.770	0.100	12.8	50.0	Quadratic	
Butyl methacrylate	0.579	0.461	0.461	0.100	20.4	50.0	Averaged	
Propylene oxide	100	87.8	0.025	0.005	12.2	50.0	Quadratic	
2-Ethylhexyl Acrylate	50.0	40.8	0.500	0.100	18.3	50.0	Quadratic	

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Form 8

Internal Standard Area and RT Summary

<textMethods>

Workorder

HS24051490

Client

Bhate Environmental Associates, Inc.

Project

LHAAP-50

06/24/2024

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-50

Workorder HS24051490

EPA SW8260

VOA9_468007		Pentafluorobenzene				1,4 Difluorobenzene				Chlorobenzene d5				1,4-Dichlorobenzene d4			
Sample ID	File ID	Area	#	RT	#	Area	#	RT	#	Area	#	RT	#	Area	#	RT	#
12-HOUR STD (CCV)	W052802.D	248318	#	4.81	#	358648	#	5.55	#	323257	#	8.18	#	176531	#	10.17	#
HS24051490-03	W052808.D	241711		4.81		361621		5.55		326640		8.18		167096		10.17	
HS24051490-03MS	W052809.D	247550		4.82		361014		5.55		331461		8.19		180029		10.17	
HS24051490-03MSD	W052810.D	247217		4.82		360242		5.55		325962		8.18		174964		10.17	
VBLKW-240529	W052806.D	239080		4.82		352784		5.55		319606		8.19		164930		10.17	
VLCSW-240529	W052803.D	241851		4.81		356245		5.55		322541		8.18		174869		10.17	

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

RT UPPER LIMIT = + 0.50 of STD IS RT
RT LOWER LIMIT = - 0.50 of 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-50

Workorder HS24051490

EPA SW8260

VOA9_468115		Pentafluorobenzene				1,4 Difluorobenzene				Chlorobenzene d5				1,4-Dichlorobenzene d4			
Sample ID	File ID	Area	#	RT	#	Area	#	RT	#	Area	#	RT	#	Area	#	RT	#
12-HOUR STD (CCV)	U053002.D	259371	#	4.81	#	379636	#	5.55	#	342949	#	8.18	#	180202	#	10.17	#
HS24051490-01	U053010.D	247236		4.81		366657		5.55		329618		8.18		167569		10.17	
HS24051490-02	U053024.D	216347		4.81		322381		5.55		288759		8.18		145793		10.17	
HS24051490-04	U053025.D	222364		4.81		331504		5.55		300134		8.18		148600		10.17	
HS24051490-05	U053026.D	233862		4.82		349341		5.55		317343		8.18		164511		10.17	
HS24051490-05MS	U053027.D	246570		4.82		355589		5.55		324527		8.18		178280		10.17	
HS24051490-05MSD	U053028.D	245361		4.81		359383		5.55		326281		8.18		178102		10.17	
HS24051490-06	U053011.D	252564		4.81		367762		5.55		330710		8.18		169228		10.17	
HS24051490-07	U053012.D	242326		4.82		357593		5.55		322239		8.18		166152		10.17	
HS24051490-08	U053009.D	243453		4.82		358999		5.55		322619		8.19		165688		10.17	
VBLKW-240530	U053006.D	256457		4.81		374060		5.55		336108		8.18		171697		10.17	
VLCSW-240530	U053003.D	257871		4.82		373397		5.55		335824		8.19		176600		10.17	

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

RT UPPER LIMIT = + 0.50 of STD IS RT
RT LOWER LIMIT = - 0.50 of 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 Volatiles Organics by Method 8260C

Workorder

HS24051490

Client

Bhate Environmental Associates, Inc.

Project

LHAAP-50

06/24/2024

ALS Environmental–Houston Laboratory
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Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Form 13 - Analysis Run Log

Client Bhate Environmental Associates, Inc.

Project LHAAP-50

Workorder
HS24051490

Volatiles by EPA Volatiles Organics by Method 8260C

RUNID
VOA9-467989

Run ID VOA9_467989 **Start Date** 05/29/24 **EndDate** 05/29/24

Inj. Time	Client Sample ID	Type	Lab Sample ID	File ID	Analysis Date	DF
10:39	VSTD00.25	ICAL1	VSTD00.25	U052902.D	05/29/24	1
11:00	VSTD00.5	ICAL2	VSTD00.5	U052903.D	05/29/24	1
11:22	VSTD001	ICAL3	VSTD001	U052904.D	05/29/24	1
11:43	VSTD002	ICAL4	VSTD002	U052905.D	05/29/24	1
12:05	VSTD005	ICAL5	VSTD005	U052906.D	05/29/24	1
12:26	VSTD020	ICAL6	VSTD020	U052907.D	05/29/24	1
12:48	VSTD050	ICAL7	VSTD050	U052908.D	05/29/24	1
13:10	VSTD100	ICAL8	VSTD100	U052909.D	05/29/24	1
13:31	VSTD150	ICAL9	VSTD150	U052910.D	05/29/24	1
13:53	VSTD200	ICAL	VSTD200	U052911.D	05/29/24	1
14:58	VSTD050	ICV	VSTD050	U052914.D	05/29/24	1

Form 13 - Analysis Run Log

Client Bhate Environmental Associates, Inc.

Project LHAAP-50

Workorder **HS24051490**

Volatiles by EPA Volatiles Organics by Method 8260C

RUNID VOA9-468007

Run ID VOA9_468007 **Start Date** 05/30/24 **EndDate** 05/30/24

Inj. Time	Client Sample ID	Type	Lab Sample ID	File ID	Analysis Date	DF
03:28	VSTD050	CCV	VSTD050	W052802.D	05/30/24	1
03:50	VLCSW-240529	LCS	VLCSW-240529	W052803.D	05/30/24	1
04:55	VBLKW-240529	MBLK	VBLKW-240529	W052806.D	05/30/24	1
05:38	HS24051490-03	SAMP	50WW23_052224	W052808.D	05/30/24	1
05:59	HS24051490-03MS	MS	HS24051490-03MS	W052809.D	05/30/24	1
06:21	HS24051490-03MSD	MSD	HS24051490-03MSD	W052810.D	05/30/24	1
07:31	HS24051300-04	SAMP	ZZZZZZZZZZ	W052813.D	05/30/24	1
07:52	HS24051300-05	SAMP	ZZZZZZZZZZ	W052814.D	05/30/24	1
08:13	HS24051300-07	SAMP	ZZZZZZZZZZ	W052815.D	05/30/24	1
08:35	HS24051300-08	SAMP	ZZZZZZZZZZ	W052816.D	05/30/24	1
08:56	HS24051300-09	SAMP	ZZZZZZZZZZ	W052817.D	05/30/24	1
09:18	CCV	CCV_END	CCV	W052818.D	05/30/24	1

Form 13 - Analysis Run Log

Client Bhate Environmental Associates, Inc.

Project LHAAP-50

Workorder **HS24051490**

Volatiles by EPA Volatiles Organics by Method 8260C

RUNID VOA9-468115

Run ID VOA9_468115 **Start Date** 05/30/24 **EndDate** 05/31/24

Inj. Time	Client Sample ID	Type	Lab Sample ID	File ID	Analysis Date	DF
14:58	VSTD050	CCV	VSTD050	U053002.D	05/30/24	1
15:19	VLCSW-240530	LCS	VLCSW-240530	U053003.D	05/30/24	1
16:25	VBLKW-240530	MBLK	VBLKW-240530	U053006.D	05/30/24	1
17:08	HS24051535-08	SAMP	ZZZZZZZZZZ	U053008.D	05/30/24	1
17:29	HS24051490-08	SAMP	Trip Blank	U053009.D	05/30/24	1
17:51	HS24051490-01	SAMP	50WW09_052224	U053010.D	05/30/24	1
18:12	HS24051490-06	SAMP	50WW06_052224	U053011.D	05/30/24	1
18:34	HS24051490-07	SAMP	50WW06_052224_a	U053012.D	05/30/24	1
18:56	HS24051535-01	SAMP	ZZZZZZZZZZ	U053013.D	05/30/24	1
19:17	HS24051535-02	SAMP	ZZZZZZZZZZ	U053014.D	05/30/24	1
19:39	HS24051535-04	SAMP	ZZZZZZZZZZ	U053015.D	05/30/24	1
20:00	HS24051535-05	SAMP	ZZZZZZZZZZ	U053016.D	05/30/24	1
20:22	HS24051535-06	SAMP	ZZZZZZZZZZ	U053017.D	05/30/24	1
20:43	HS24051535-07	SAMP	ZZZZZZZZZZ	U053018.D	05/30/24	1
21:07	HS24051535-03	SAMP	ZZZZZZZZZZ	U053019.D	05/30/24	5
22:57	HS24051490-02	SAMP	50WW08_052224	U053024.D	05/30/24	10
23:21	HS24051490-04	SAMP	50WW12_052224	U053025.D	05/30/24	10
23:43	HS24051490-05	SAMP	50WW12_052224_a	U053026.D	05/30/24	10
00:04	HS24051490-05MS	MS	HS24051490-05MS	U053027.D	05/31/24	10
00:26	HS24051490-05MSD	MSD	HS24051490-05MSD	U053028.D	05/31/24	10
00:47	CCV	CCV_END	CCV	U053029.D	05/31/24	1

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right solutions.
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RawData

<textMethods>

Workorder

HS24051490

Client

Bhate Environmental Associates, Inc.

Project

LHAAP-50

06/24/2024

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\voa9.i\U240529.b\U052901.D Page 1
Report Date: 07-Jun-2024 10:54

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052901.D
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 29-MAY-2024 10:17
Operator : FT Inst ID: VOA9.i
Smp Info : BFB;BFB;3;;BFB
Misc Info : V9;WATER;0;1;
Comment :
Method : \\nahstws005\Target\chem\voa9.i\U240529.b\bfb.m
Meth Date : 27-Jan-2023 08:08 apoluri Quant Type: ISTD
Cal Date : 22-MAY-2024 23:36 Cal File: V052211.D
Als bottle: 1 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: WATER

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
1 bfb							CAS #: 460-00-4	
0.000	9.180 (0.000)		95	100952			0.00- 100.00	100.00
0.000	9.180 (0.000)		50	17456			15.00- 40.00	17.29
0.000	9.180 (0.000)		75	47384			30.00- 60.00	46.94
0.000	9.180 (0.000)		96	6990			5.00- 9.00	6.92
0.000	9.180 (0.000)		173	0	0.0	0.0	0.00- 2.00	0.00
0.000	9.180 (0.000)		174	94448			50.00- 0.00	93.56
0.000	9.180 (0.000)		175	7851			5.00- 9.00	8.31
0.000	9.180 (0.000)		176	91680			95.00- 101.00	97.07
0.000	9.180 (0.000)		177	6078			5.00- 9.00	6.63

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	17.29
75	30.00 - 60.00% of mass 95	46.94
96	5.00 - 9.00% of mass 95	6.92
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	93.56
175	5.00 - 9.00% of mass 174	7.78 (8.31)
176	95.00 - 101.00% of mass 174	90.82 (97.07)
177	5.00 - 9.00% of mass 176	6.02 (6.63)

Data File: U052901.D
Spectrum: HP ChemStation MS U052901.D, Scan 2295: 9.194 min.
Location of Maximum: 95.05
Number of points: 95

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	859	62.00	4363	92.00	2598	129.90	296
37.10	4380	63.00	3206	93.00	4116	130.90	118
38.00	3865	64.00	324	94.00	11601	134.80	152
39.00	1630	65.00	168	95.00	100952	136.80	155
39.90	200	68.00	9629	96.00	6990	140.00	118
40.90	127	69.00	9346	97.00	240	140.90	875
41.90	88	70.00	818	103.80	421	142.90	956
43.00	185	71.20	149	104.90	235	143.80	67
43.90	647	72.00	527	105.90	374	145.00	97
45.00	856	73.00	3880	107.00	81	145.80	148
46.00	113	74.00	16029	109.90	57	147.90	206
47.10	1333	75.00	47384	110.80	79	148.90	76
48.00	656	76.00	4374	111.80	67	152.90	111
49.00	3818	76.90	655	114.90	110	154.80	253
50.00	17456	78.00	457	115.80	297	156.80	196
51.00	5468	78.90	2299	116.90	575	158.90	96
52.00	295	80.00	687	117.90	300	160.80	160
52.90	56	80.90	2360	118.90	421	172.00	351
55.00	281	81.90	475	119.80	65	173.90	94448
56.00	1246	82.90	54	120.10	63	175.00	7851
57.00	2728	85.80	133	123.70	60	175.90	91680
58.10	101	87.00	4708	127.10	51	176.90	6078
60.10	915	88.00	4557	127.90	391	177.90	182
61.00	4230	90.90	394	128.80	198		

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052901.D Page 1

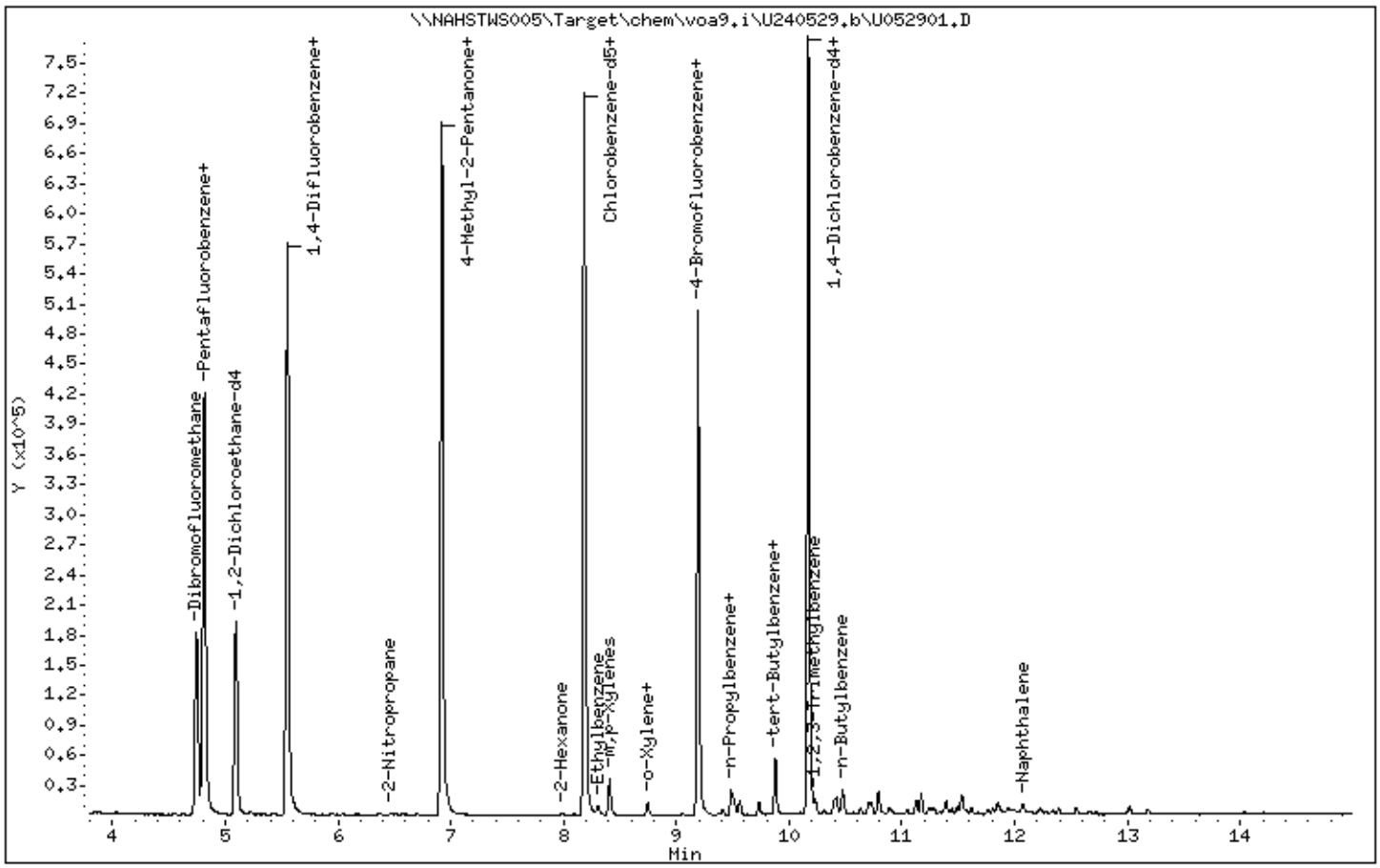
Date : 29-MAY-2024 10:17

Client ID: BFB Instrument: VOA9.i

Sample Info: BFB;BFB;3;;BFB

Volume Injected (uL): 2.0 Operator: FT

Column phase: DB624 Column diameter: 0.25



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052901.D Page 2

Date : 29-MAY-2024 10:17

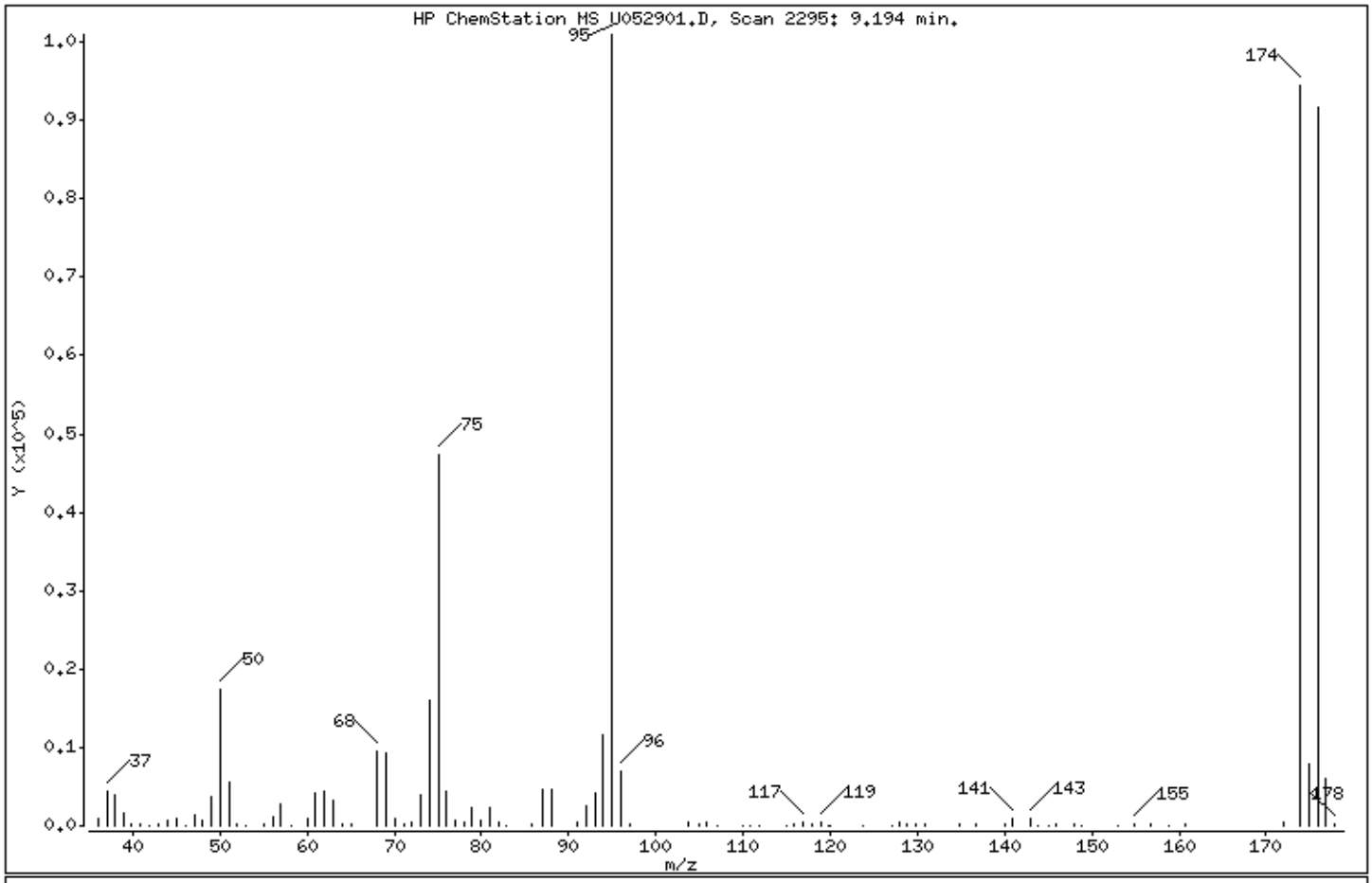
Client ID: BFB Instrument: VOA9.i

Sample Info: BFB;BFB;3;;BFB

Volume Injected (uL): 2.0 Operator: FT

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	17.29
75	30.00 - 60.00% of mass 95	46.94
96	5.00 - 9.00% of mass 95	6.92
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	93.56
175	5.00 - 9.00% of mass 174	7.78 (8.31)
176	95.00 - 101.00% of mass 174	90.82 (97.07)
177	5.00 - 9.00% of mass 176	6.02 (6.63)

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052901.D Page 3

Date : 29-MAY-2024 10:17

Client ID: BFB Instrument: VOA9.i

Sample Info: BFB;BFB;3;;BFB

Volume Injected (uL): 2.0 Operator: FT

Column phase: DB624 Column diameter: 0.25

Data File: U052901.D
Spectrum: HP ChemStation MS U052901.D, Scan 2295: 9.194 min.
Location of Maximum: 95.05
Number of points: 95

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	859	62.00	4363	92.00	2598	129.90	296
37.10	4380	63.00	3206	93.00	4116	130.90	118
38.00	3865	64.00	324	94.00	11601	134.80	152
39.00	1630	65.00	168	95.00	100952	136.80	155
39.90	200	68.00	9629	96.00	6990	140.00	118
40.90	127	69.00	9346	97.00	240	140.90	875
41.90	88	70.00	818	103.80	421	142.90	956
43.00	185	71.20	149	104.90	235	143.80	67
43.90	647	72.00	527	105.90	374	145.00	97
45.00	856	73.00	3880	107.00	81	145.80	148
46.00	113	74.00	16029	109.90	57	147.90	206
47.10	1333	75.00	47384	110.80	79	148.90	76
48.00	656	76.00	4374	111.80	67	152.90	111
49.00	3818	76.90	655	114.90	110	154.80	253
50.00	17456	78.00	457	115.80	297	156.80	196
51.00	5468	78.90	2299	116.90	575	158.90	96
52.00	295	80.00	687	117.90	300	160.80	160
52.90	56	80.90	2360	118.90	421	172.00	351
55.00	281	81.90	475	119.80	65	173.90	94448
56.00	1246	82.90	54	120.10	63	175.00	7851
57.00	2728	85.80	133	123.70	60	175.90	91680
58.10	101	87.00	4708	127.10	51	176.90	6078
60.10	915	88.00	4557	127.90	391	177.90	182
61.00	4230	90.90	394	128.80	198		

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052902.D Page 1
Report Date: 07-Jun-2024 10:54

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052902.D
Lab Smp Id: VSTD00.25 Client Smp ID: VSTD00.25
Inj Date : 29-MAY-2024 10:39
Operator : FT Inst ID: VOA9.i
Smp Info : VSTD00.25;VSTD00.25;1;1
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240529.b\8260C.m
Meth Date : 07-Jun-2024 10:14 r.patel Quant Type: ISTD
Cal Date : 29-MAY-2024 10:39 Cal File: U052902.D
Als bottle: 2 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14

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	4.812	4.811	(1.000)	302933	50.0000	
	2 Dichlorodifluoromethane	85	1.007	1.156	(0.209)	11048	0.25000	9.78
	3 Chloromethane	50	1.295	1.288	(0.269)	4781	0.25000	0.47(a)
	4 Propionitrile	54	4.343	4.339	(0.903)	1009	2.50000	(aM)
	7 Chloroethane	64	1.595	1.681	(0.332)	1923	0.25000	0.91
	14 Allyl Chloride	41	2.671	2.667	(0.555)	1847	0.25000	0.07(a)
$	30 Dibromofluoromethane	113	4.744	4.744	(0.986)	1289	0.25000	0.14(a)
	33 1,2-Dichloroethane	62	4.812	5.171	(0.867)	963	0.25000	0.89
	34 Carbon Tetrachloride	117	4.812	4.905	(0.867)	25016	0.25000	10.04
$	35 1,2-Dichloroethane-d4	65	5.096	5.093	(1.059)	1656	50.0000	1.13(T)
*	36 1,4-Difluorobenzene	114	5.550	5.550	(1.000)	438860	50.0000	
	37 Benzene	78	5.141	5.134	(0.926)	1569	0.25000	0.15(Ta)
	42 1,2-Dichloropropane	63	5.550	6.007	(1.000)	86620	0.25000	31.77
*	47 Chlorobenzene-d5	117	8.182	8.185	(1.000)	397688	50.0000	
$	48 Toluene-d8	98	6.922	6.918	(0.846)	8167	50.0000	1.27(a)
	49 Ethyl Methacrylate	69	7.293	7.289	(1.314)	704	0.25000	0.20(a)
	50 Toluene	91	6.982	6.978	(0.853)	3174	0.25000	0.29(a)
	52 2-Hexanone	43	7.222	7.589	(0.883)	1373	0.50000	2.46(Ta)
	58 1-Chlorohexane	55	8.182	8.196	(1.474)	3664	0.25000	1.00(a)
	61 Ethylbenzene	106	8.305	8.305	(1.015)	1485	0.25000	0.43(a)
	62 m,p-Xylenes	106	8.410	8.406	(1.028)	9262	0.50000	1.33(a)

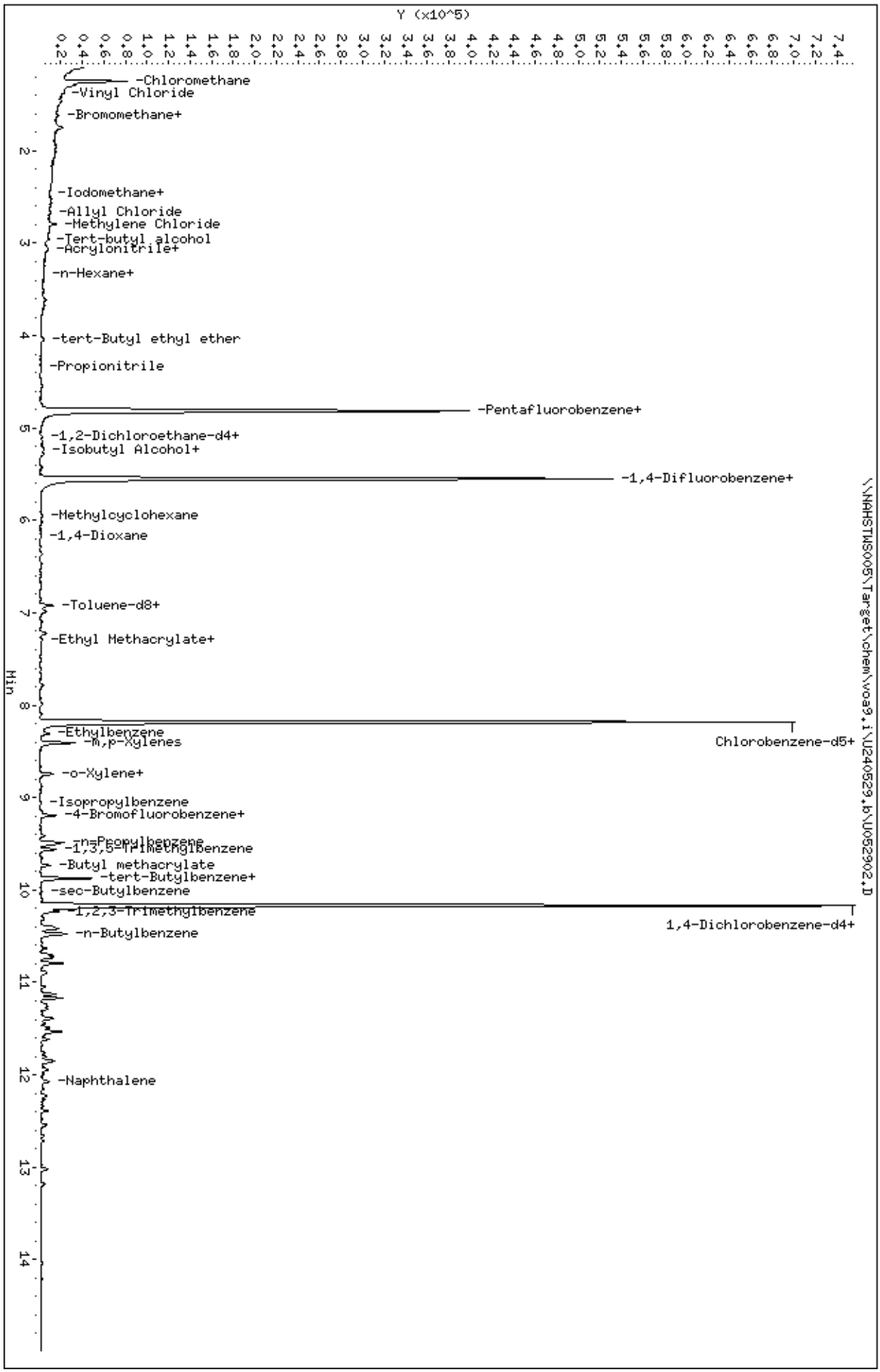
63 o-Xylene	106	8.748	8.744 (1.069)	2937	0.25000	1.50(a)
67 Isopropylbenzene	105	9.063	9.059 (1.108)	1050	0.25000	0.11(a)

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052902.D Page 2
Report Date: 07-Jun-2024 10:54

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
$	69 4-Bromofluorobenzene	95	9.194	9.190	(1.124)	4388	50.0000	1.49(a)
*	70 1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	205109	50.0000	
	71 1,2,3-Trichloropropane	75	9.194	9.362	(0.904)	1951	0.25000	0.61(a)
	73 n-Propylbenzene	91	9.411	9.411	(0.926)	3314	0.25000	0.29(a)
	75 1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	6919	0.25000	0.63(a)
	78 tert-Butylbenzene	119	9.876	9.835	(0.971)	3306	0.25000	0.53(Ta)
	79 1,2,4-Trimethylbenzene	105	9.876	9.876	(0.971)	25827	0.25000	1.62(a)
	81 sec-Butylbenzene	105	10.022	10.022	(0.986)	1089	0.25000	0.12(a)
	82 p-Isopropyltoluene	119	10.146	10.146	(0.998)	824	0.25000	0.11(a)
	83 1,3-Dichlorobenzene	146	10.187	10.116	(1.002)	622	0.25000	0.13(a)
	84 1,4-Dichlorobenzene	146	10.187	10.191	(1.002)	622	0.25000	0.11(a)
	87 n-Butylbenzene	91	10.487	10.491	(1.031)	4447	0.25000	0.91(a)
	88 1,2-Dichlorobenzene	146	10.187	10.502	(1.002)	622	0.25000	0.12(a)
	92 Naphthalene	128	12.073	12.065	(1.187)	6014	0.25000	0.61(a)
	141 Cyclohexane	56	4.812	4.778	(1.000)	6248	0.25000	0.98(a)
	147 Methylcyclohexane	55	5.951	5.944	(1.072)	1332	0.25000	0.82(a)
	136 n-Hexane	57	3.338	3.331	(0.694)	736	0.25000	0.98(Ta)
	149 Isopropyl alcohol	45	2.559	2.570	(0.532)	1179	5.00000	(Ta)
	166 1,2,3-Trimethylbenzene	105	10.232	10.232	(1.006)	7421	0.25000	1.76(a)
	172 tert-Butyl formate	59	5.243	5.250	(1.090)	1385	0.50000	0.57(a)
	174 tert-Amyl methyl ether	73	5.284	5.284	(1.098)	2132	0.25000	0.30(Ta)
	175 tert-Butyl ethyl ether	59	4.047	4.047	(0.841)	2148	0.25000	0.31(a)
	176 tert-Amyl alcohol	59	5.243	5.250	(1.090)	1385	5.00000	5.72
	151 4-Methyl-2-pentanol	45	7.218	7.222	(1.301)	3155	5.00000	16.93
	150 Allyl alcohol	57	3.338	3.331	(0.694)	736	5.00000	19.72

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\voa9.i\U240529.b\U052902.D
Date : 29-MAY-2024 10:39
Client ID: VSTD00.25
Sample Info: VSTD00.25;VSTD00.25;1;1
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9.i
Operator: FT
Column diameter: 0.18

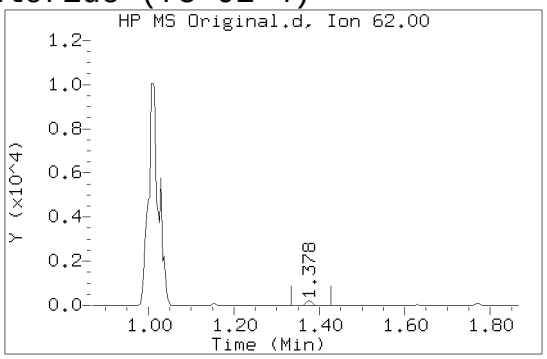
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Inj Date : 29-MAY-2024 10:39
InstruID : VOA9.i
LabSampID : VSTD00.25

Vinyl Chloride (75-01-4)

Reason Code:

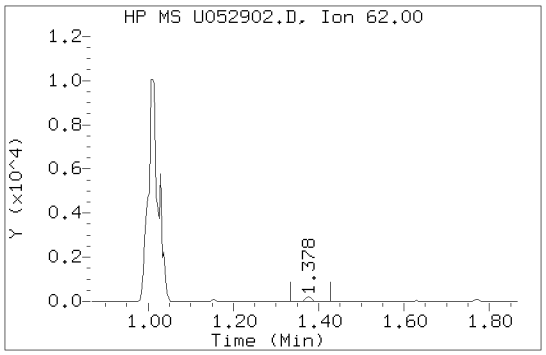
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AREA
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HEIGHT
203
06-Jun-2024
17:10
s
zaid



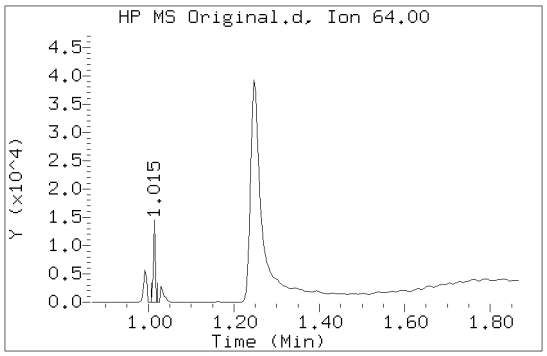
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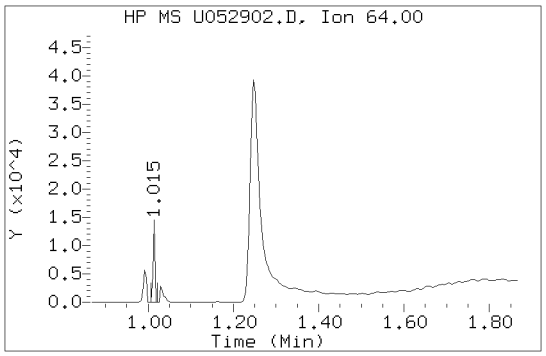
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AFTER

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07-Jun-2024
10:36

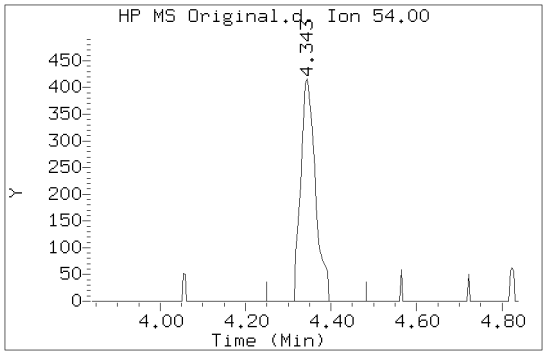


Propionitrile (107-12-0)

Reason Code:

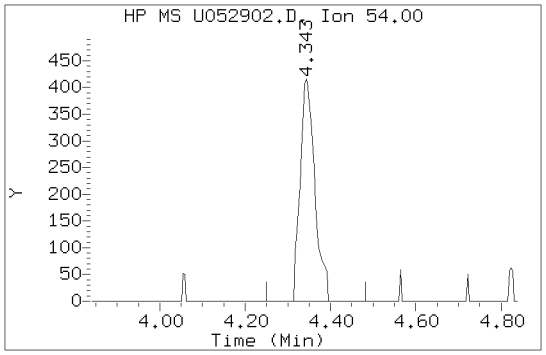
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HEIGHT
416
06-Jun-2024
17:10
s
zaid



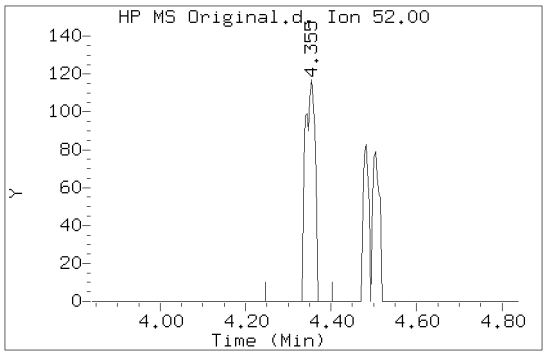
AFTER

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07-Jun-2024
10:36



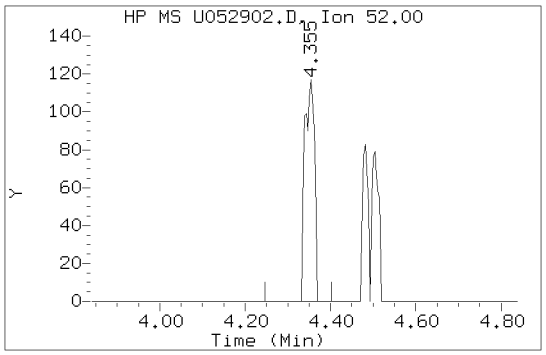
BEFORE

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52
AREA
190
HEIGHT
117
06-Jun-2024
17:10
s
zaid



AFTER

MASS
52
AREA
190
HEIGHT
117
07-Jun-2024
10:36



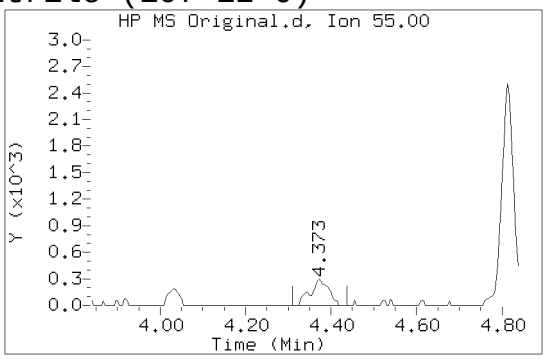
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Inj Date : 29-MAY-2024 10:39
InstruID : VOA9.i
LabSampID : VSTD00.25

Propionitrile (107-12-0)

Reason Code:

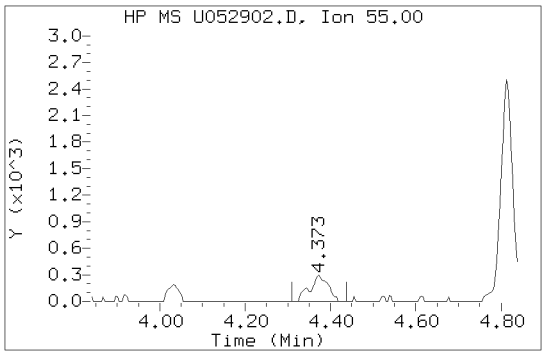
BEFORE

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AREA
872
HEIGHT
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06-Jun-2024
17:10
s
zaid



AFTER

MASS
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AREA
872
HEIGHT
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07-Jun-2024
10:36

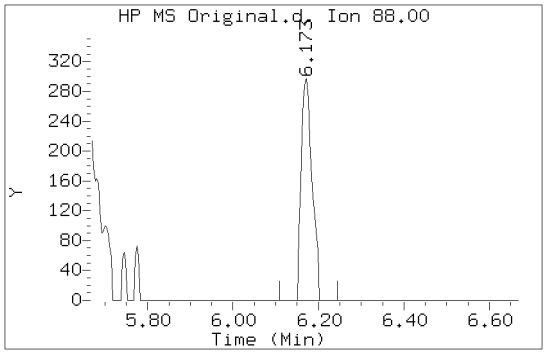


1,4-Dioxane ()

Reason Code:

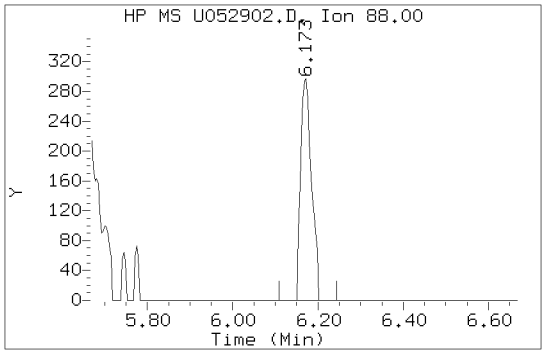
BEFORE

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HEIGHT
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06-Jun-2024
17:10
s
zaid



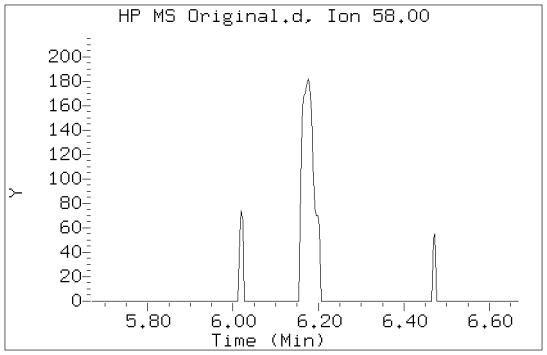
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AREA
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07-Jun-2024
10:36



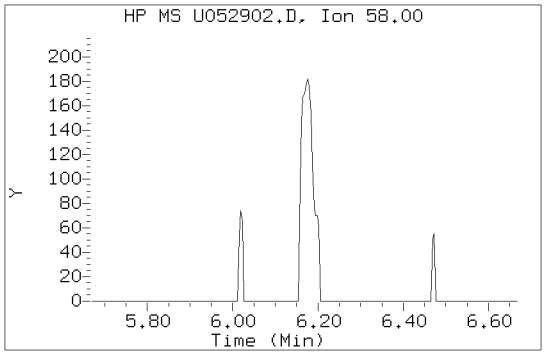
BEFORE

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HEIGHT
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06-Jun-2024
17:10
s
zaid



AFTER

MASS
58
AREA
0
HEIGHT
0
07-Jun-2024
10:36



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052903.D Page 1
Report Date: 07-Jun-2024 10:54

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052903.D
Lab Smp Id: VSTD00.5 Client Smp ID: VSTD00.5
Inj Date : 29-MAY-2024 11:00
Operator : FT Inst ID: VOA9.i
Smp Info : VSTD00.5;VSTD00.5;1;2
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240529.b\8260C.m
Meth Date : 07-Jun-2024 10:14 r.patel Quant Type: ISTD
Cal Date : 29-MAY-2024 11:00 Cal File: U052903.D
Als bottle: 3 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14

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	4.812	4.811	(1.000)	298424	50.0000	
2	Dichlorodifluoromethane	85	1.157	1.156	(0.240)	397	0.50000	0.35(aM)
3	Chloromethane	50	1.288	1.288	(0.268)	6413	0.50000	0.90
4	Propionitrile	54	4.339	4.339	(0.902)	1595	5.00000	(aM)
5	Vinyl Chloride	62	1.370	1.366	(0.285)	950	0.50000	0.42(aM)
7	Chloroethane	64	1.689	1.681	(0.351)	1090	0.50000	0.39(aM)
8	Trichlorofluoromethane	101	1.884	1.884	(0.392)	927	0.50000	0.34(a)
9	Acrolein	56	2.251	2.259	(0.468)	367	1.00000	0.32(aM)
10	Acetone	43	2.401	2.405	(0.499)	2671	1.00000	1.19
11	1,1-Dichloroethene	96	2.326	2.322	(0.484)	872	0.50000	0.44(aM)
13	Acetonitrile	39	2.664	2.663	(0.554)	865	5.00000	3.57(a)
14	Allyl Chloride	41	2.664	2.667	(0.554)	2724	0.50000	0.23(a)
15	Iodomethane	142	2.457	2.457	(0.511)	772	1.00000	0.57(Ta)
19	Carbon Disulfide	76	2.510	2.510	(0.522)	5445	1.00000	0.98
20	trans-1,2-Dichloroethene	96	3.050	3.050	(0.634)	1106	0.50000	0.49(a)
21	Vinyl Acetate	43	4.343	4.339	(0.903)	1257	1.00000	0.95(aM)
22	1,1-Dichloroethane	63	3.503	3.507	(0.728)	2242	0.50000	0.52(T)
23	Chloroprene	53	3.601	3.601	(0.748)	1294	0.50000	0.41(a)
24	2-Butanone	43	4.272	4.260	(0.888)	1315	1.00000	0.98(aM)
25	Methacrylonitrile	41	4.497	4.489	(0.935)	638	0.50000	0.21(a)
26	2,2-Dichloropropane	77	4.174	4.174	(0.868)	1275	0.50000	0.45(aM)

27 cis-1,2-Dichloroethene	96	4.189	4.189 (0.871)	1451	0.50000	0.52
28 Chloroform	83	4.568	4.568 (0.949)	2142	0.50000	0.50

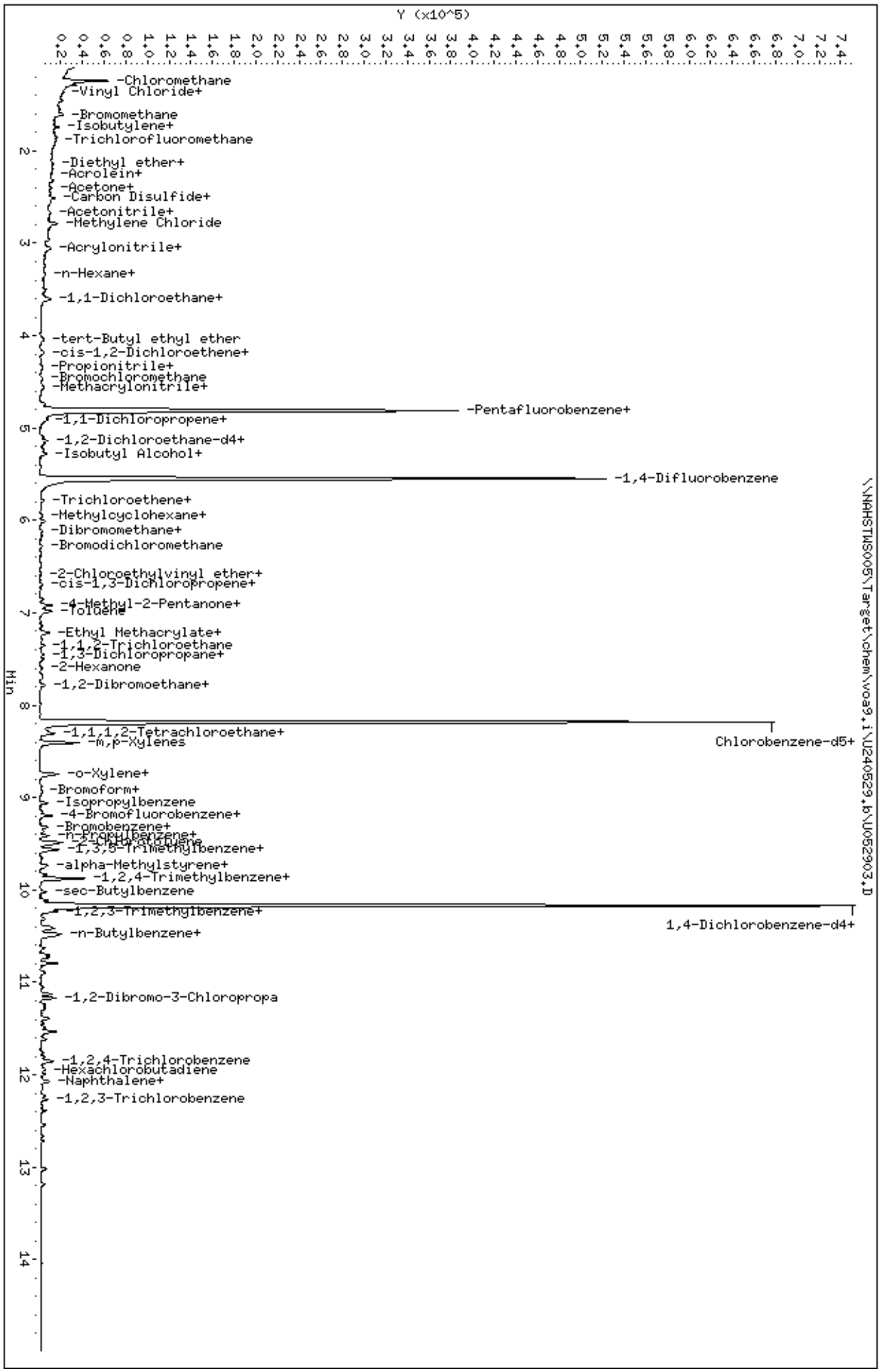
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	29 Bromochloromethane	128	4.459	4.463	(0.927)	704	0.50000	0.82
$	30 Dibromofluoromethane	113	4.748	4.744	(0.987)	1637	0.50000	0.34(a)
	31 1,1,1-Trichloroethane	97	4.733	4.736	(0.984)	1256	0.50000	0.42(a)
	32 1,1-Dichloropropene	75	4.920	4.916	(0.887)	1686	0.50000	0.53
	33 1,2-Dichloroethane	62	5.175	5.171	(0.932)	1765	0.50000	1.14(M)
	34 Carbon Tetrachloride	117	4.902	4.905	(0.883)	1246	0.50000	0.50(M)
$	35 1,2-Dichloroethane-d4	65	5.096	5.093	(1.059)	2042	0.50000	1.31(T)
*	36 1,4-Difluorobenzene	114	5.550	5.550	(1.000)	433437	50.0000	
	37 Benzene	78	5.134	5.134	(0.925)	5858	0.50000	0.57
	38 Trichloroethene	130	5.786	5.786	(1.043)	1215	0.50000	0.48(a)
	39 Bromodichloromethane	83	6.277	6.277	(1.131)	1183	0.50000	0.43(aM)
	40 Methyl Methacrylate	41	5.835	5.827	(1.213)	511	0.50000	0.82(aM)
	41 2-Chloroethylvinyl ether	63	6.577	6.573	(1.185)	505	1.00000	3.82(M)
	42 1,2-Dichloropropane	63	6.007	6.007	(1.082)	1503	0.50000	0.55(aM)
	43 2-Nitropropane	43	6.506	6.506	(1.352)	164	0.50000	2.10(aM)
	44 Dibromomethane	93	6.116	6.116	(1.102)	725	0.50000	0.46(a)
	45 4-Methyl-2-Pentanone	43	6.858	6.851	(0.838)	2006	1.00000	1.18(a)
	46 cis-1,3-Dichloropropene	75	6.690	6.690	(1.205)	1376	0.50000	1.21(aM)
*	47 Chlorobenzene-d5	117	8.182	8.185	(1.000)	385437	50.0000	
$	48 Toluene-d8	98	6.922	6.918	(0.846)	7327	0.50000	1.19(a)
	49 Ethyl Methacrylate	69	7.293	7.289	(1.314)	1331	0.50000	0.39(a)
	50 Toluene	91	6.978	6.978	(0.853)	6525	0.50000	0.62(a)
	51 trans-1,3-Dichloropropene	75	7.196	7.196	(1.296)	919	0.50000	1.43(aM)
	52 2-Hexanone	43	7.597	7.589	(0.929)	1203	1.00000	2.39(TaM)
	53 1,1,2-Trichloroethane	83	7.353	7.353	(0.899)	894	0.50000	0.10(a)
	54 1,3-Dichloropropane	76	7.499	7.499	(0.917)	2059	0.50000	0.48(a)
	55 Dibromochloromethane	129	7.691	7.690	(0.940)	788	0.50000	1.25(aM)
	56 Tetrachloroethene	164	7.458	7.454	(0.912)	866	0.50000	0.47(a)
	57 1,2-Dibromoethane	107	7.788	7.784	(0.952)	1079	0.50000	0.46(a)
	58 1-Chlorohexane	55	8.182	8.196	(1.474)	4455	0.50000	1.50(a)
	59 Chlorobenzene	112	8.208	8.208	(1.003)	3510	0.50000	0.52(a)
	60 1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	888	0.50000	0.41(a)
	61 Ethylbenzene	106	8.305	8.305	(1.015)	2343	0.50000	0.73(a)
	62 m,p-Xylenes	106	8.407	8.406	(1.027)	10673	1.00000	1.77(a)
	63 o-Xylene	106	8.744	8.744	(1.069)	3953	0.50000	1.78(a)
	64 Styrene	104	8.763	8.759	(1.071)	3009	0.50000	0.47(a)
	66 Bromoform	173	8.916	8.916	(1.090)	424	0.50000	1.80(aM)
	67 Isopropylbenzene	105	9.063	9.059	(1.108)	4312	0.50000	0.46(a)
	68 1,1,2,2-Tetrachloroethane	83	9.329	9.329	(0.917)	1594	0.50000	0.47(aM)
$	69 4-Bromofluorobenzene	95	9.194	9.190	(1.124)	3574	0.50000	1.23(a)
*	70 1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	201203	50.0000	
	71 1,2,3-Trichloropropane	75	9.362	9.362	(0.921)	1200	0.50000	0.38(aM)
	72 trans-1,4-Dichloro-2-butene	53	9.381	9.377	(1.147)	306	0.50000	0.46(aM)
	73 n-Propylbenzene	91	9.411	9.411	(0.926)	6391	0.50000	0.58(a)
	74 Bromobenzene	156	9.321	9.317	(0.917)	1370	0.50000	0.49(a)
	75 1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	8297	0.50000	0.84(a)
	76 2-Chlorotoluene	91	9.482	9.482	(0.933)	5091	0.50000	0.28(a)
	77 4-Chlorotoluene	91	9.576	9.576	(0.942)	4175	0.50000	0.53(a)
	78 tert-Butylbenzene	119	9.835	9.835	(0.967)	2791	0.50000	0.45(aM)
	79 1,2,4-Trimethylbenzene	105	9.876	9.876	(0.971)	22634	0.50000	1.24(a)
	81 sec-Butylbenzene	105	10.018	10.022	(0.985)	3943	0.50000	0.47(a)
	82 p-Isopropyltoluene	119	10.146	10.146	(0.998)	3411	0.50000	0.47(a)

83 1,3-Dichlorobenzene	146	10.116	10.116 (0.995)	2434	0.50000	0.52(aM)
84 1,4-Dichlorobenzene	146	10.187	10.191 (1.002)	2962	0.50000	0.57(a)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
86	Benzyl Chloride	91	10.311	10.311	(1.260)	2950	0.50000	2.12(aM)
87	n-Butylbenzene	91	10.491	10.491	(1.032)	6464	0.50000	1.24(a)
88	1,2-Dichlorobenzene	146	10.506	10.502	(1.033)	2607	0.50000	0.53(aM)
89	1,2-Dibromo-3-Chloropropane	155	11.166	11.165	(1.098)	128	0.50000	1.13(aM)
90	1,2,4-Trichlorobenzene	180	11.863	11.855	(1.167)	1430	0.50000	0.46(a)
91	Hexachlorobutadiene	225	11.998	11.998	(1.180)	668	0.50000	0.54(aM)
92	Naphthalene	128	12.073	12.065	(1.187)	7391	0.50000	0.82(a)
93	1,2,3-Trichlorobenzene	180	12.271	12.268	(1.207)	1338	0.50000	0.47(a)
146	Methyl acetate	43	2.705	2.708	(0.562)	1181	0.50000	0.75(aM)
138	Freon TF	101	2.315	2.326	(0.481)	683	0.50000	0.84(aM)
141	Cyclohexane	56	4.808	4.778	(0.999)	6283	0.50000	1.03(a)
147	Methylcyclohexane	55	5.951	5.944	(1.072)	1801	0.50000	0.91(a)
135	1,4-Dioxane	88	6.169	6.168	(1.282)	700	10.0000	6.75(aM)
132	n-Butanol	56	5.839	5.827	(1.213)	701	10.0000	8.71(aM)
136	n-Hexane	57	3.335	3.331	(0.693)	1203	0.50000	1.23(Ta)
149	Isopropyl alcohol	45	2.559	2.570	(0.532)	1852	10.0000	(a)
152	Amyl alcohol	42	7.413	7.398	(0.906)	468	10.0000	24.33(M)
156	Diisopropyl ether	45	3.616	3.619	(0.751)	3553	0.50000	0.46(aM)
162	Butyl acrylate	55	8.736	8.733	(1.068)	1363	0.50000	1.16(a)
164	Dicyclopentadiene	66	10.195	10.198	(1.003)	5765	0.50000	0.55(TaM)
166	1,2,3-Trimethylbenzene	105	10.232	10.232	(1.006)	6866	0.50000	1.70(a)
167	Ethanol	45	2.079	2.086	(0.432)	339	10.0000	(aM)
172	tert-Butyl formate	59	5.243	5.250	(1.090)	1972	1.00000	0.83(aM)
173	3,3-Dimethyl-1-butanol	57	7.781	7.784	(0.951)	2051	10.0000	7.64(M)
174	tert-Amyl methyl ether	73	5.280	5.284	(1.097)	3014	0.50000	0.43(Ta)
175	tert-Butyl ethyl ether	59	4.043	4.047	(0.840)	2826	0.50000	0.41(a)
176	tert-Amyl alcohol	59	5.243	5.250	(1.090)	1972	10.0000	8.26(M)
151	4-Methyl-2-pentanol	45	7.218	7.222	(1.301)	5007	10.0000	19.67
140	1,3-Butadiene	54	1.397	1.396	(0.290)	441	0.50000	0.39(aM)
182	Epichlorohydrin	57	6.630	6.630	(1.195)	323	2.00000	3.48(aM)
M 94	1,2-Dichloroethylene (total)	96				2557	1.00000	(a)
130	Ethyl Acetate	43	4.343	4.339	(0.903)	1284	0.50000	0.46(aM)
134	Cyclohexanone	55	9.153	9.152	(0.900)	969	10.0000	19.06(Ta)
185	Isoprene	39	2.142	2.146	(0.445)	81	0.50000	0.82(aM)
150	Allyl alcohol	57	3.335	3.331	(0.693)	1203	10.0000	24.62
194	Acetaldehyde	44	1.456	1.453	(0.303)	1640	2.00000	2.71(aM)
195	Methyl Amyl Ketone	43	8.871	8.868	(1.084)	1718	0.50000	0.36(aM)
200	Dimethyl Disulfide	94	6.746	6.746	(0.825)	248	0.50000	5.11(M)
133	Ethyl Acrylate	55	5.951	5.944	(1.237)	1801	0.50000	0.82(aM)
163	Butyl methacrylate	41	9.651	9.647	(0.949)	1219	0.50000	0.52(a)
159	Propylene oxide	43	2.195	2.191	(0.456)	651	1.00000	2.71(aM)
203	2-Ethylhexyl Acrylate	55	12.043	12.039	(1.184)	644	0.50000	1.61(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: VSTD00.5
Sample Info: VSTD00.5;VSTD00.5;1;2
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9.i
Operator: FT
Column diameter: 0.18

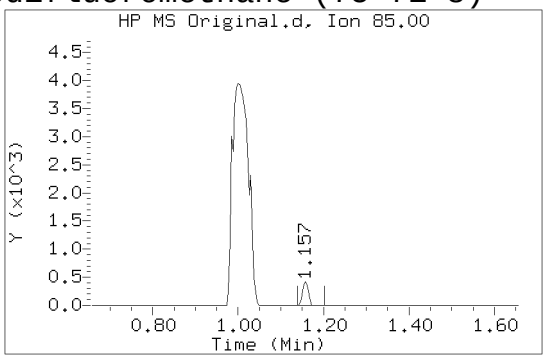
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InstruID : VOA9.i
LabSampID : VSTD00.5

Dichlorodifluoromethane (75-71-8)

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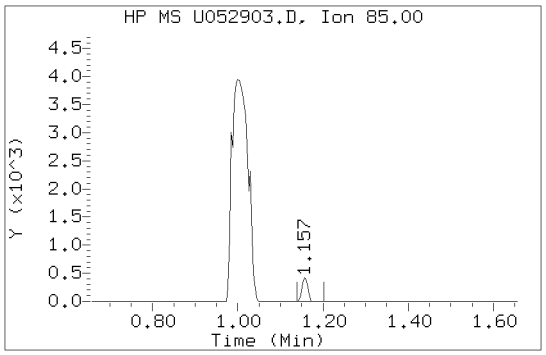
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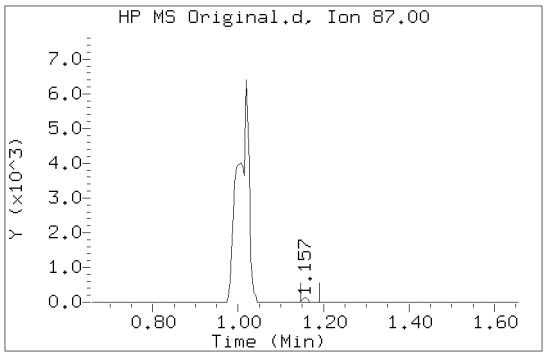
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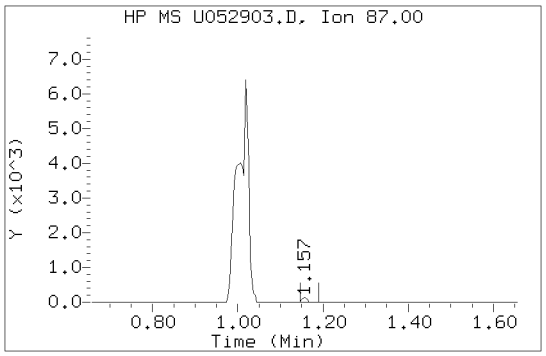
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AFTER

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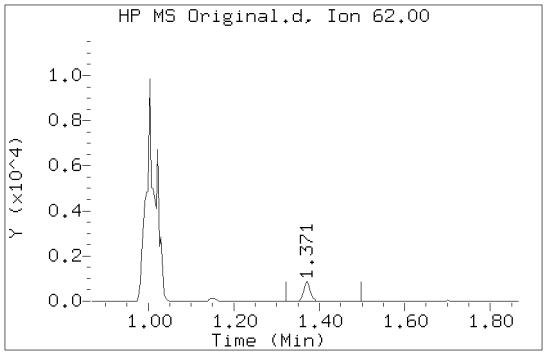


Vinyl Chloride (75-01-4)

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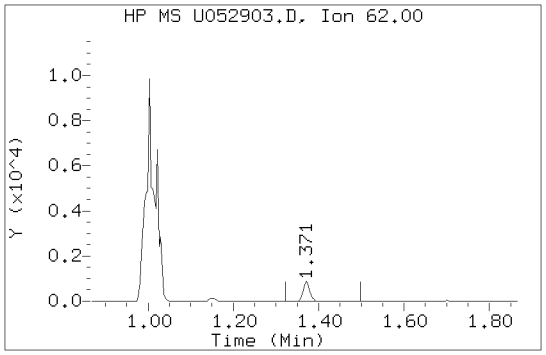
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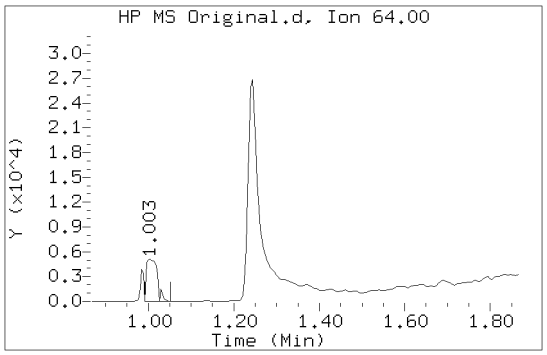
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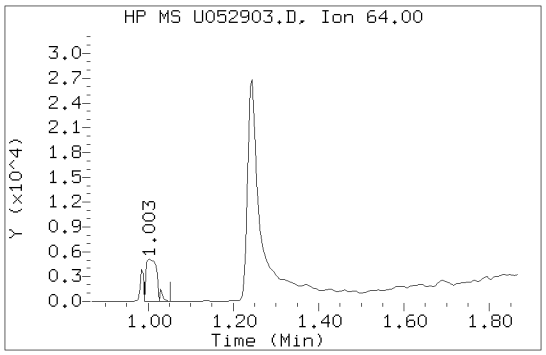
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AFTER

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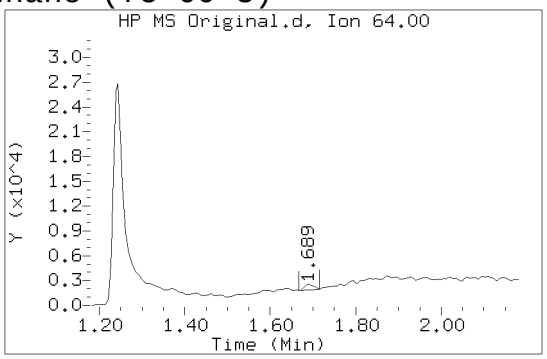
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LabSampID : VSTD00.5

Chloroethane (75-00-3)

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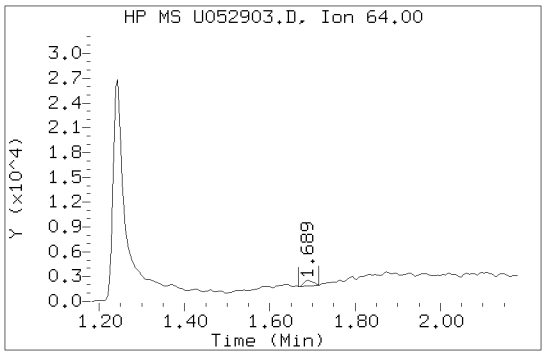
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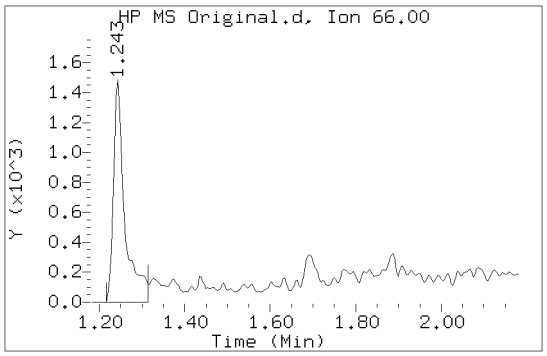
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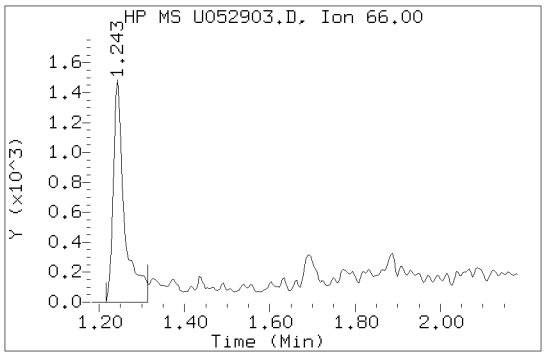
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AFTER

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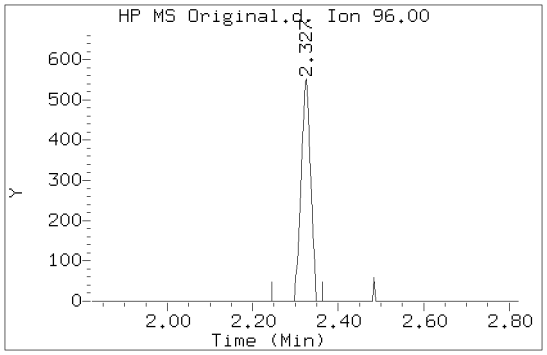


1,1-Dichloroethene (75-35-4)

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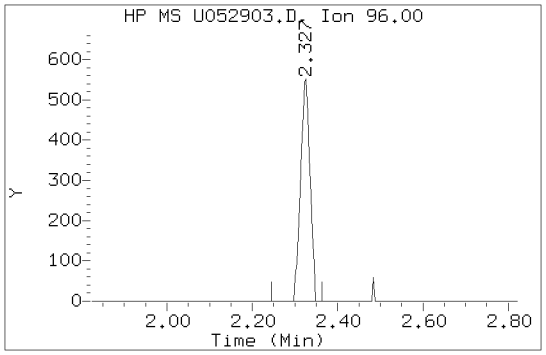
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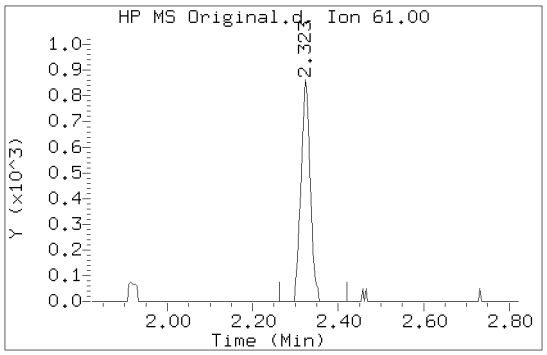
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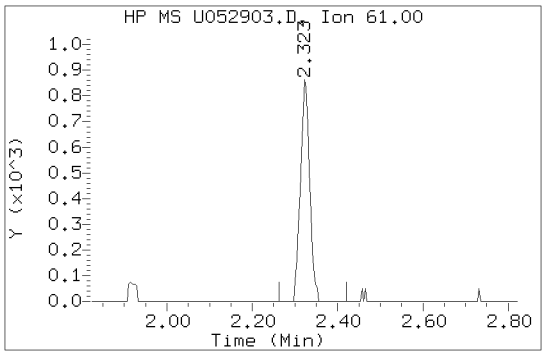
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AFTER

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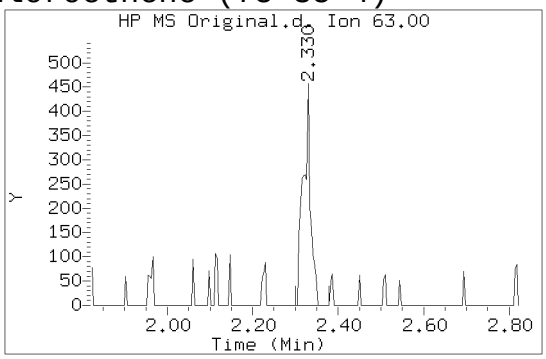


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LabSampID : VSTD00.5

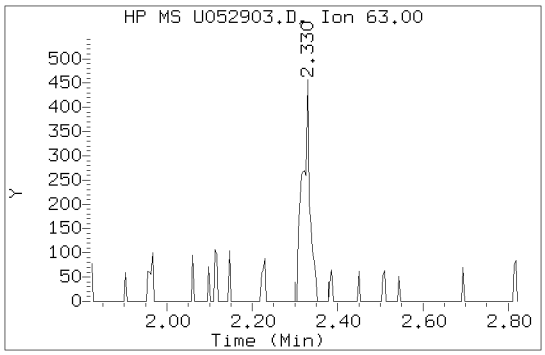
1,1-Dichloroethene (75-35-4)

Reason Code:

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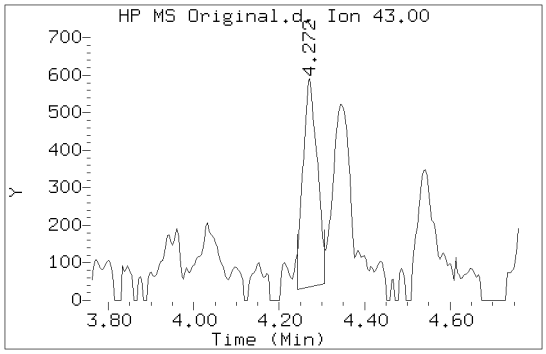
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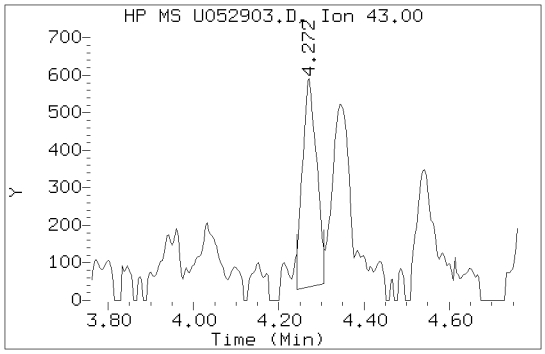
2-Butanone (78-93-3)

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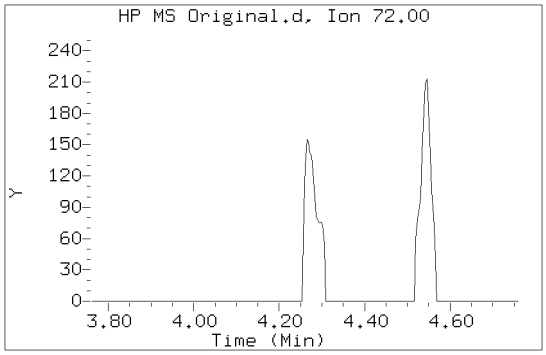
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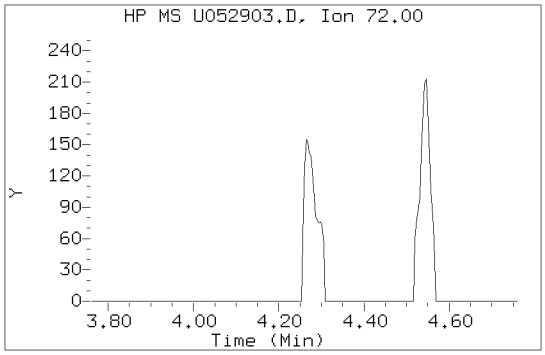
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BEFORE
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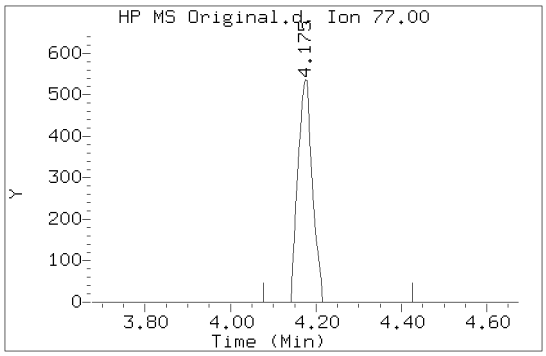
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s
zaid



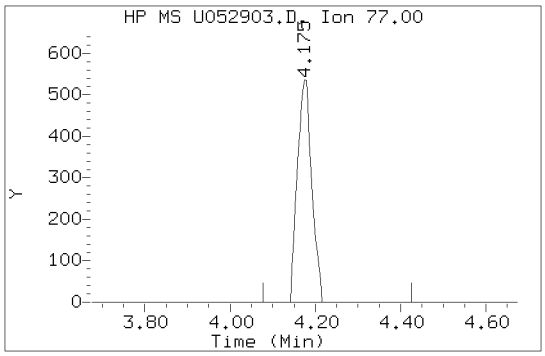
2,2-Dichloropropane (594-20-7)

Reason Code:

BEFORE
MASS
77
AREA
1275
HEIGHT
536
06-Jun-2024
17:10
s
zaid



AFTER
MASS
77
AREA
1275
HEIGHT
536
06-Jun-2024
17:10
s
zaid



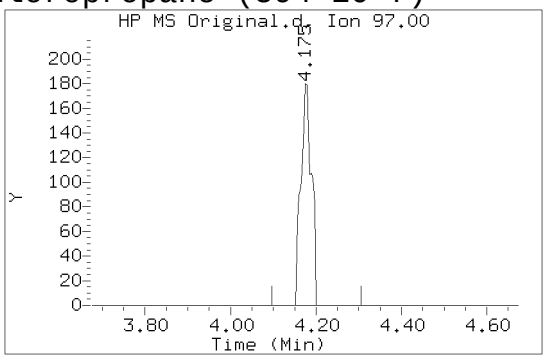
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052903.D
Inj Date : 29-MAY-2024 11:00
InstruID : VOA9.i
LabSampID : VSTD00.5

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

Reason Code:

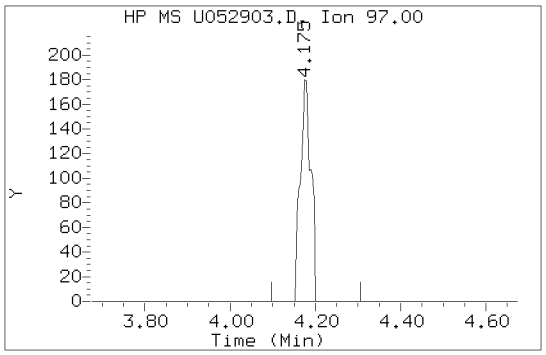
BEFORE

MASS
97
AREA
316
HEIGHT
180
06-Jun-2024
17:10
s
zaid



AFTER

MASS
97
AREA
316
HEIGHT
180
06-Jun-2024
17:10
s
zaid

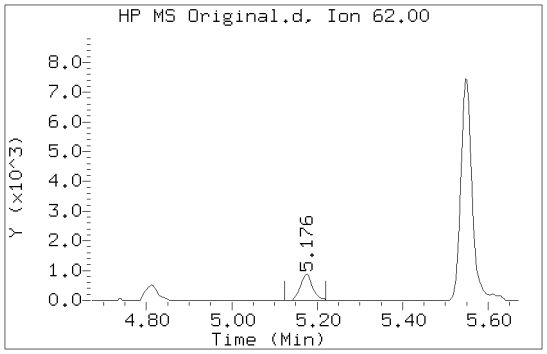


1,2-Dichloroethane (107-06-2)

Reason Code:

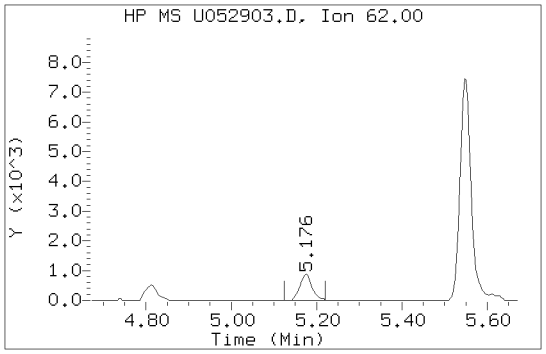
BEFORE

MASS
62
AREA
1765
HEIGHT
882
06-Jun-2024
17:10
s
zaid



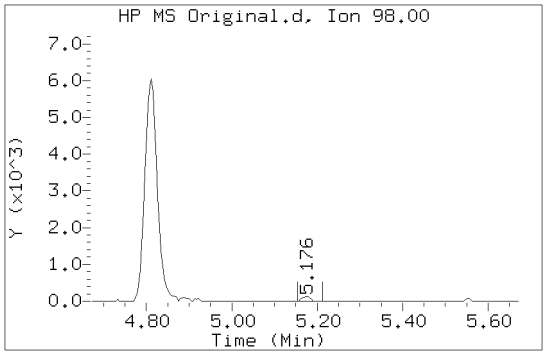
AFTER

MASS
62
AREA
1765
HEIGHT
882
06-Jun-2024
17:10
s
zaid



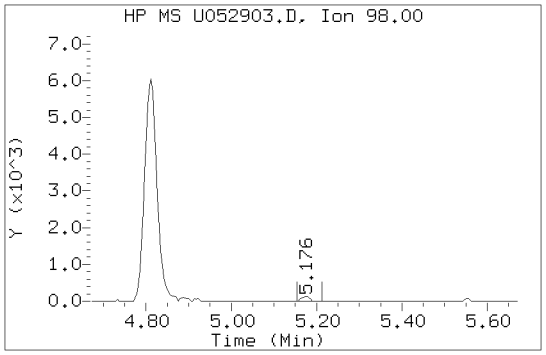
BEFORE

MASS
98
AREA
172
HEIGHT
121
06-Jun-2024
17:10
s
zaid



AFTER

MASS
98
AREA
172
HEIGHT
121
06-Jun-2024
17:10
s
zaid

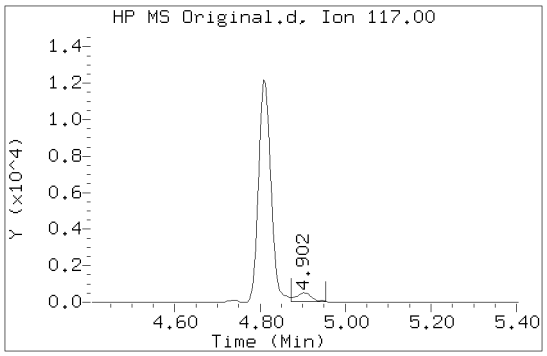


Carbon Tetrachloride (56-23-5)

Reason Code:

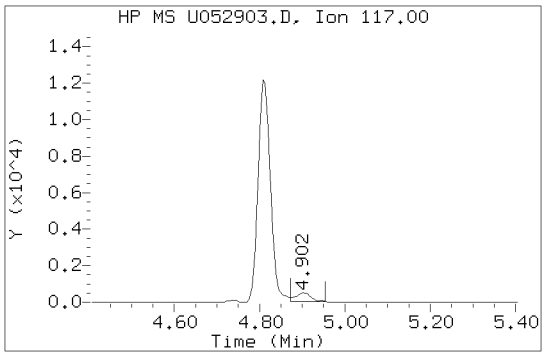
BEFORE

MASS
117
AREA
1246
HEIGHT
473
06-Jun-2024
17:10
s
zaid



AFTER

MASS
117
AREA
1246
HEIGHT
473
06-Jun-2024
17:10
s
zaid



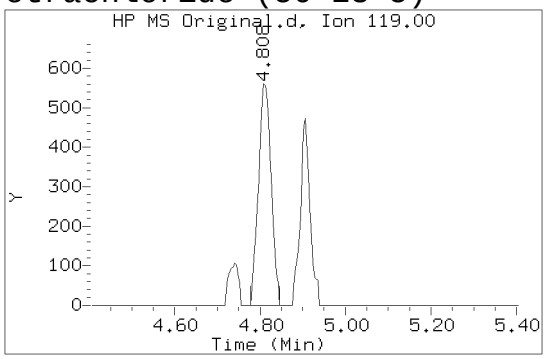
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052903.D
Inj Date : 29-MAY-2024 11:00
InstruID : VOA9.i
LabSampID : VSTD00.5

Carbon Tetrachloride (56-23-5)

Reason Code:

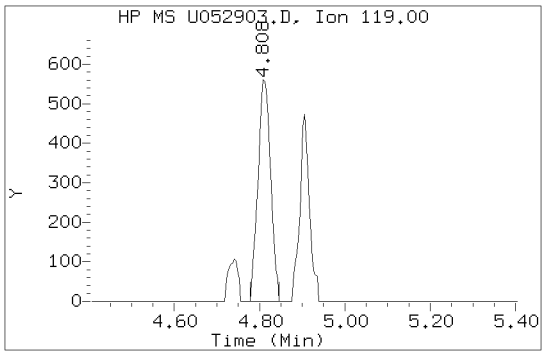
BEFORE

MASS
119
AREA
1158
HEIGHT
561
06-Jun-2024
17:10
s
zaid



AFTER

MASS
119
AREA
1158
HEIGHT
561
06-Jun-2024
17:10
s
zaid

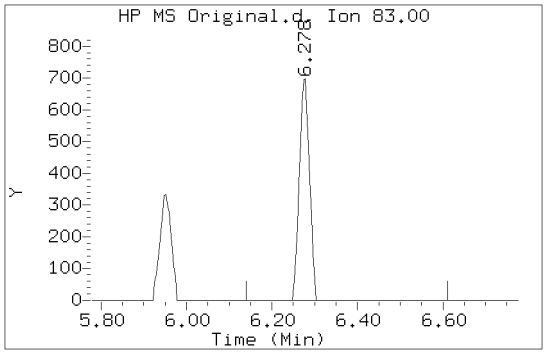


Bromodichloromethane (75-27-4)

Reason Code:

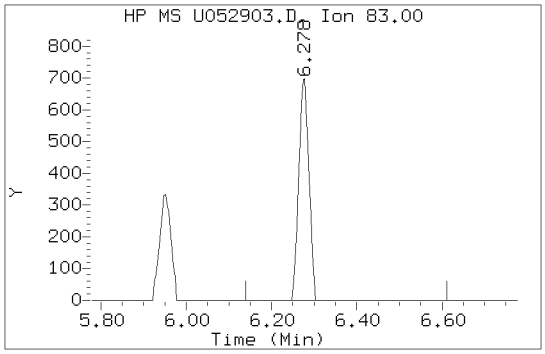
BEFORE

MASS
83
AREA
1183
HEIGHT
698
06-Jun-2024
17:10
s
zaid



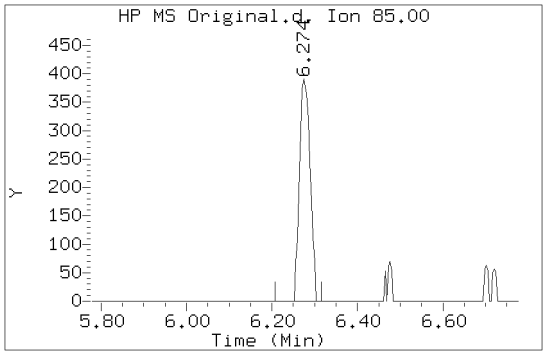
AFTER

MASS
83
AREA
1183
HEIGHT
698
06-Jun-2024
17:10
s
zaid



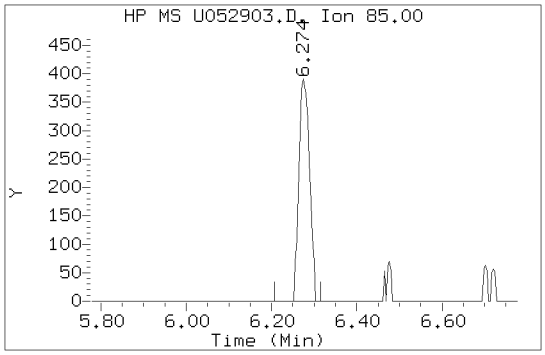
BEFORE

MASS
85
AREA
696
HEIGHT
391
06-Jun-2024
17:10
s
zaid



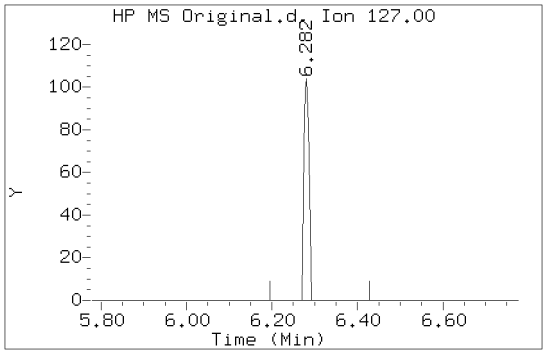
AFTER

MASS
85
AREA
696
HEIGHT
391
06-Jun-2024
17:10
s
zaid



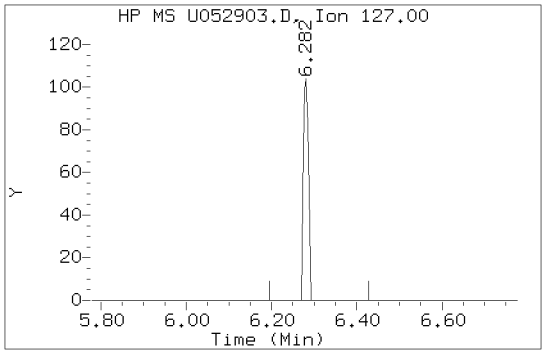
BEFORE

MASS
127
AREA
91
HEIGHT
104
06-Jun-2024
17:10
s
zaid



AFTER

MASS
127
AREA
91
HEIGHT
104
06-Jun-2024
17:10
s
zaid



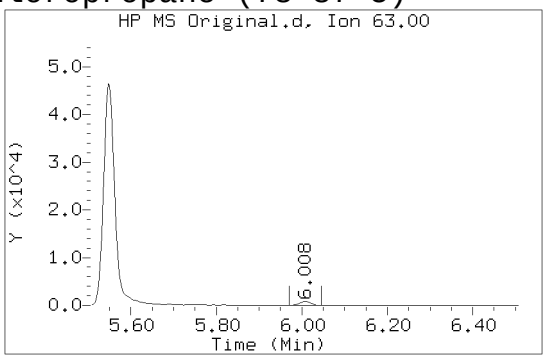
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052903.D
Inj Date : 29-MAY-2024 11:00
InstruID : VOA9.i
LabSampID : VSTD00.5

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

Reason Code:

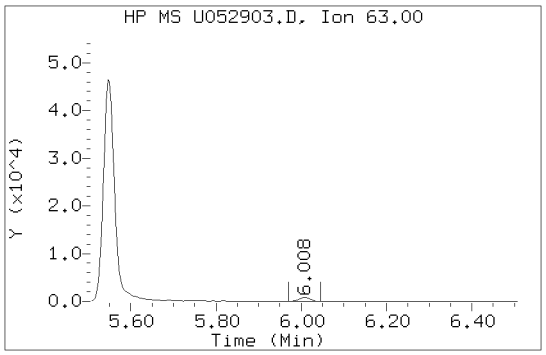
BEFORE

MASS
63
AREA
1503
HEIGHT
823
06-Jun-2024
17:10
s
zaid



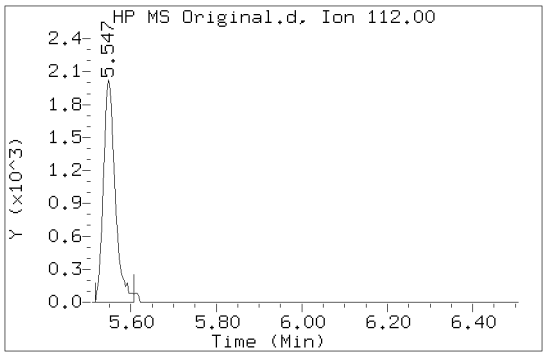
AFTER

MASS
63
AREA
1503
HEIGHT
823
06-Jun-2024
17:10
s
zaid



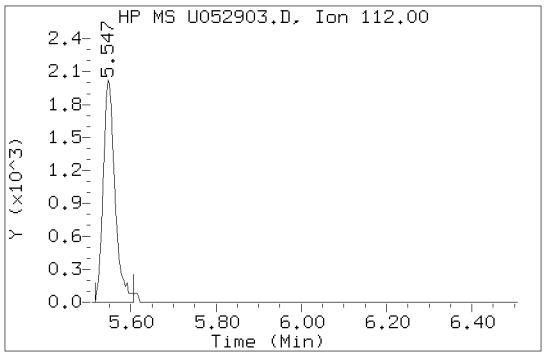
BEFORE

MASS
112
AREA
3881
HEIGHT
2025
06-Jun-2024
17:10
s
zaid



AFTER

MASS
112
AREA
3881
HEIGHT
2025
06-Jun-2024
17:10
s
zaid

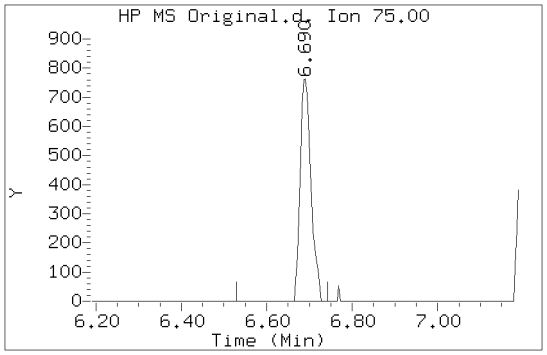


cis-1,3-Dichloropropene (10061-01-5)

Reason Code:

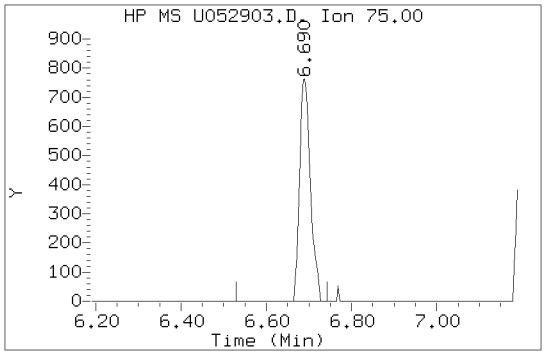
BEFORE

MASS
75
AREA
1376
HEIGHT
763
06-Jun-2024
17:10
s
zaid



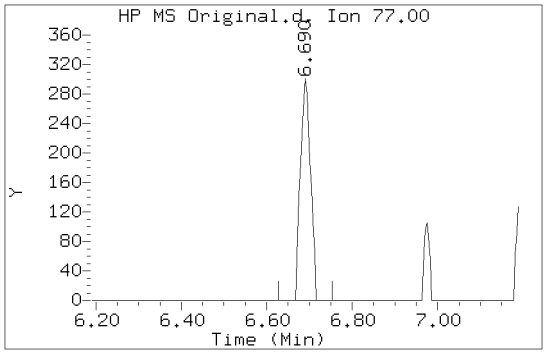
AFTER

MASS
75
AREA
1376
HEIGHT
763
06-Jun-2024
17:10
s
zaid



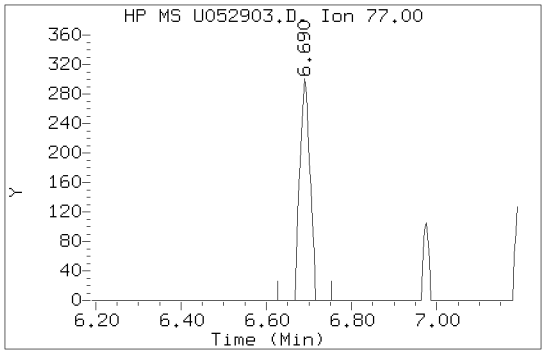
BEFORE

MASS
77
AREA
504
HEIGHT
301
06-Jun-2024
17:10
s
zaid



AFTER

MASS
77
AREA
504
HEIGHT
301
06-Jun-2024
17:10
s
zaid



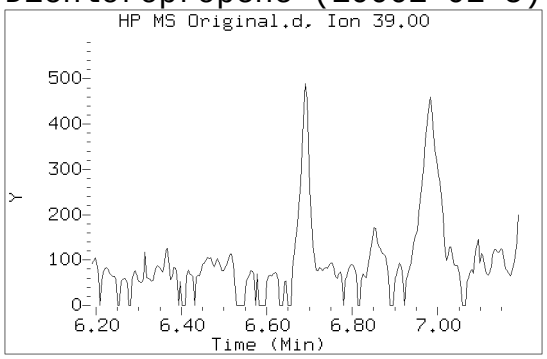
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052903.D
Inj Date : 29-MAY-2024 11:00
InstruID : VOA9.i
LabSampID : VSTD00.5

cis-1,3-Dichloropropene (10061-01-5)

Reason Code:

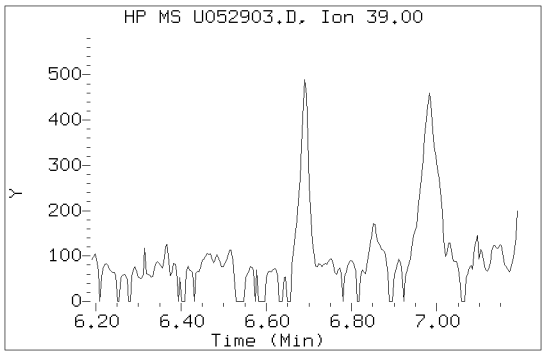
BEFORE

MASS
39
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



AFTER

MASS
39
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid

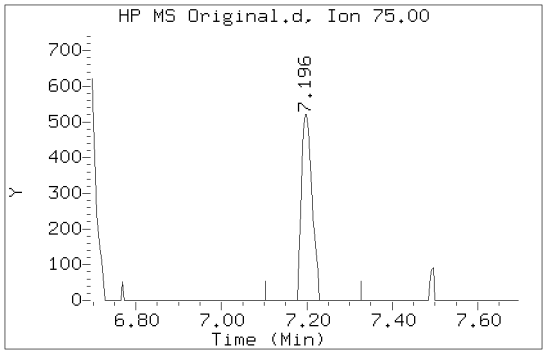


trans-1,3-Dichloropropene (10061-02-6)

Reason Code:

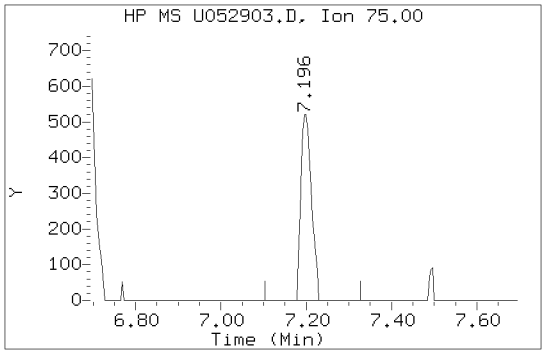
BEFORE

MASS
75
AREA
919
HEIGHT
520
06-Jun-2024
17:10
s
zaid



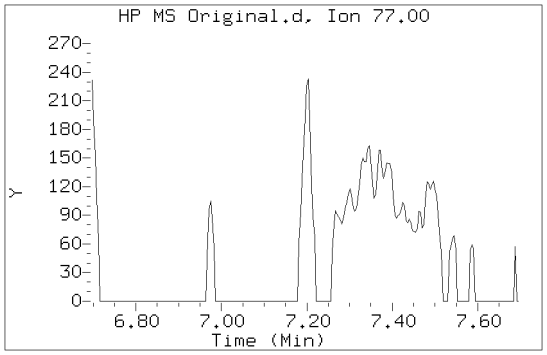
AFTER

MASS
75
AREA
919
HEIGHT
520
06-Jun-2024
17:10
s
zaid



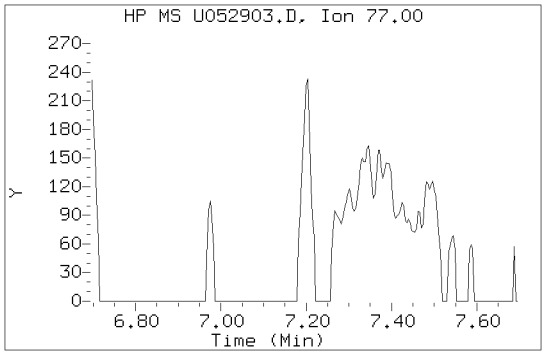
BEFORE

MASS
77
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



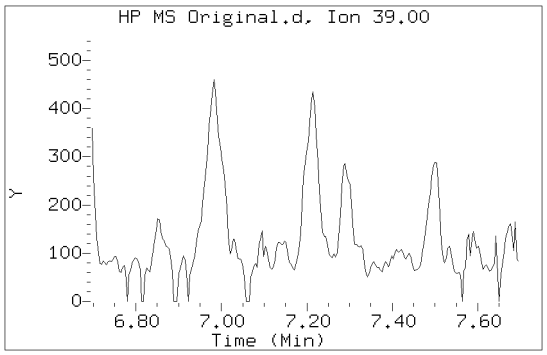
AFTER

MASS
77
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



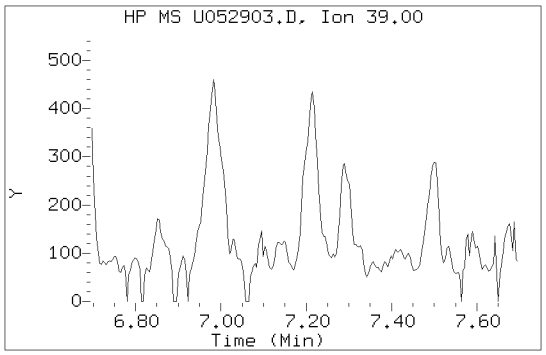
BEFORE

MASS
39
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



AFTER

MASS
39
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid

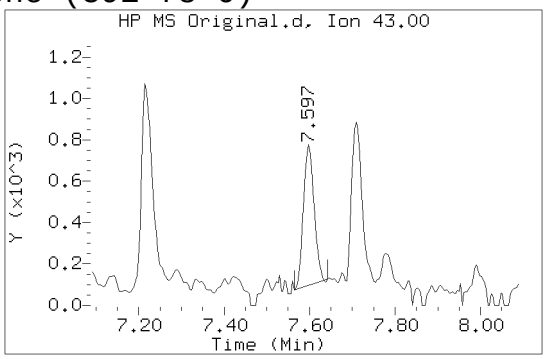


Data File : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052903.D
Inj Date : 29-MAY-2024 11:00
InstruID : VOA9.i
LabSampID : VSTD00.5

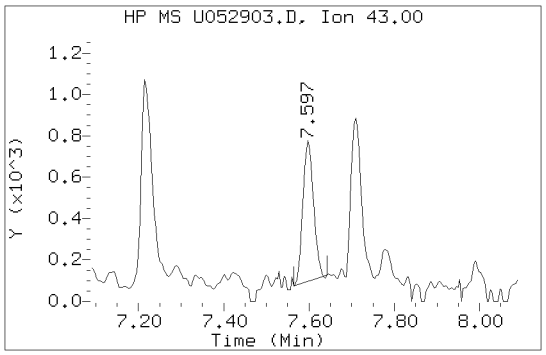
2-Hexanone (591-78-6)

Reason Code:

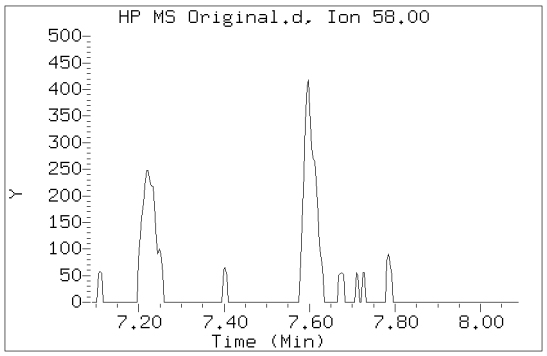
BEFORE
MASS
43
AREA
1203
HEIGHT
681
06-Jun-2024
17:10
s
zaid



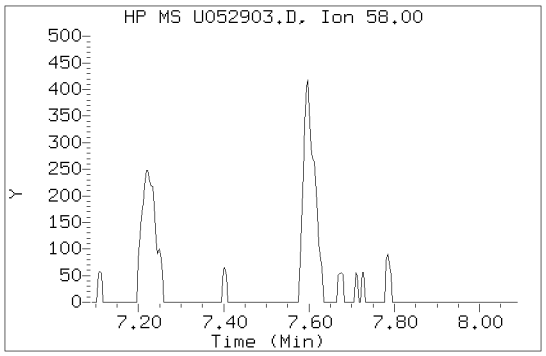
AFTER
MASS
43
AREA
1203
HEIGHT
681
06-Jun-2024
17:10
s
zaid



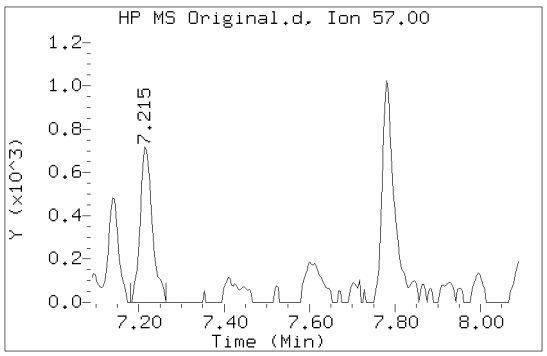
BEFORE
MASS
58
AREA
902
HEIGHT
512
06-Jun-2024
17:10
s
zaid



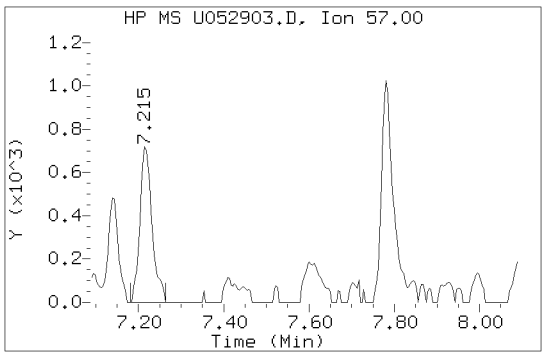
AFTER
MASS
58
AREA
902
HEIGHT
512
06-Jun-2024
17:10
s
zaid



BEFORE
MASS
57
AREA
1422
HEIGHT
720
06-Jun-2024
17:10
s
zaid



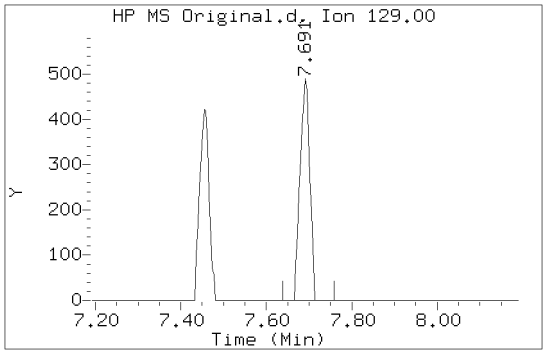
AFTER
MASS
57
AREA
1422
HEIGHT
720
06-Jun-2024
17:10
s
zaid



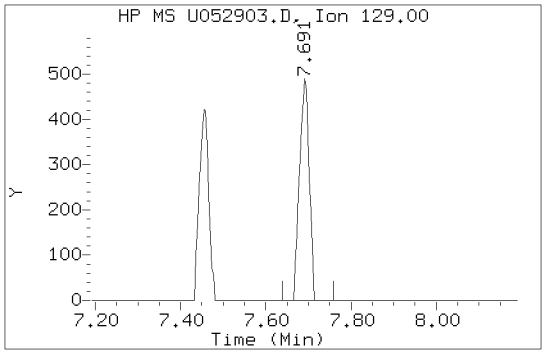
Dibromochloromethane (124-48-1)

Reason Code:

BEFORE
MASS
129
AREA
788
HEIGHT
490
06-Jun-2024
17:10
s
zaid



AFTER
MASS
129
AREA
788
HEIGHT
490
06-Jun-2024
17:10
s
zaid



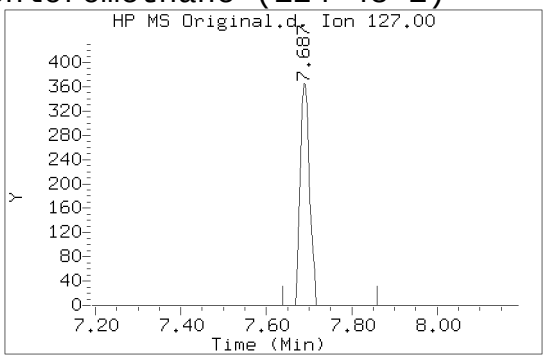
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052903.D
Inj Date : 29-MAY-2024 11:00
InstruID : VOA9.i
LabSampID : VSTD00.5

Dibromochloromethane (124-48-1)

Reason Code:

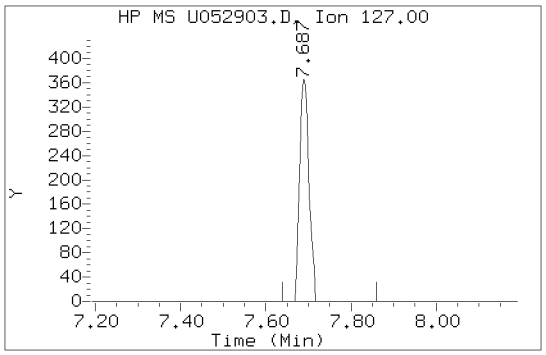
BEFORE

MASS
127
AREA
572
HEIGHT
365
06-Jun-2024
17:10
s
zaid



AFTER

MASS
127
AREA
572
HEIGHT
365
06-Jun-2024
17:10
s
zaid

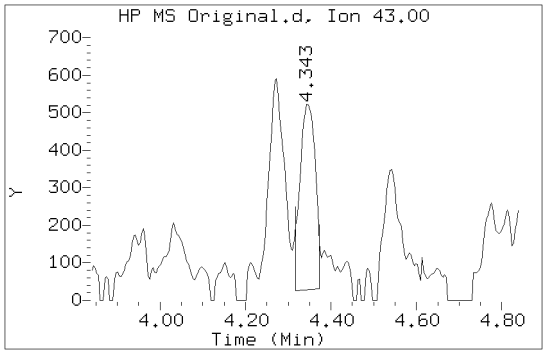


Vinyl Acetate (108-05-4)

Reason Code:

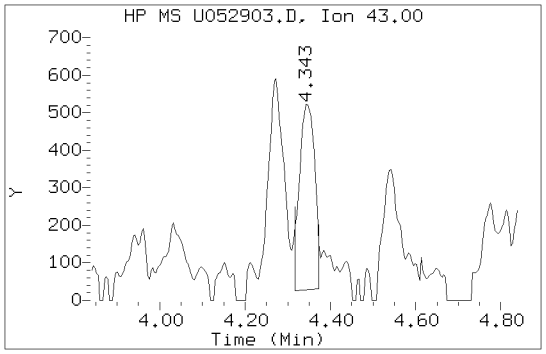
BEFORE

MASS
43
AREA
1257
HEIGHT
494
06-Jun-2024
17:10
s
zaid



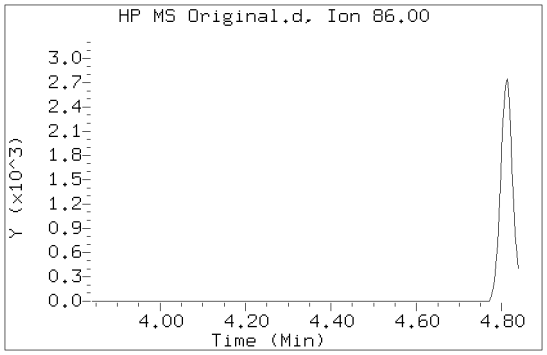
AFTER

MASS
43
AREA
1257
HEIGHT
494
06-Jun-2024
17:10
s
zaid



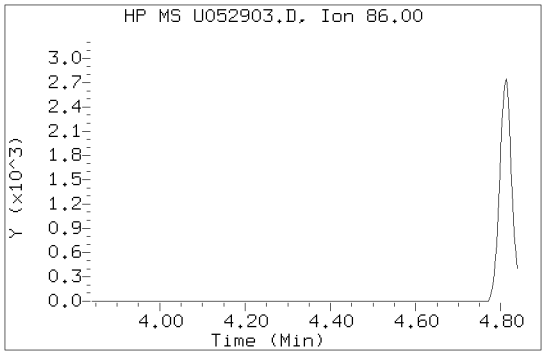
BEFORE

MASS
86
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



AFTER

MASS
86
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid

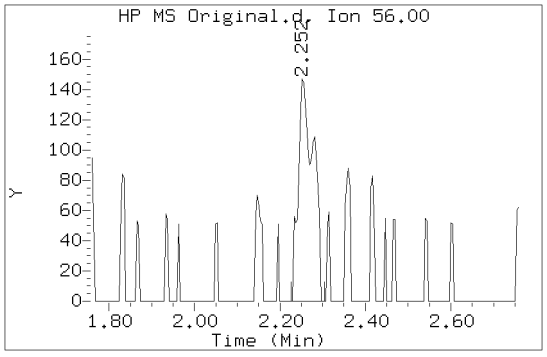


Acrolein (107-02-8)

Reason Code:

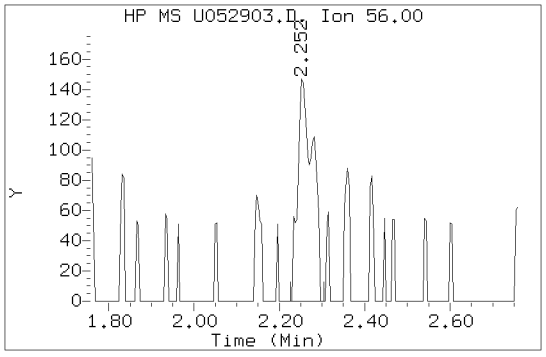
BEFORE

MASS
56
AREA
367
HEIGHT
147
06-Jun-2024
17:10
s
zaid



AFTER

MASS
56
AREA
367
HEIGHT
147
06-Jun-2024
17:10
s
zaid



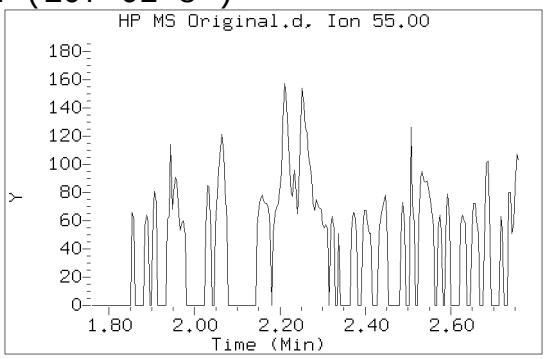
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052903.D
Inj Date : 29-MAY-2024 11:00
InstruID : VOA9.i
LabSampID : VSTD00.5

Acrolein (107-02-8)

Reason Code:

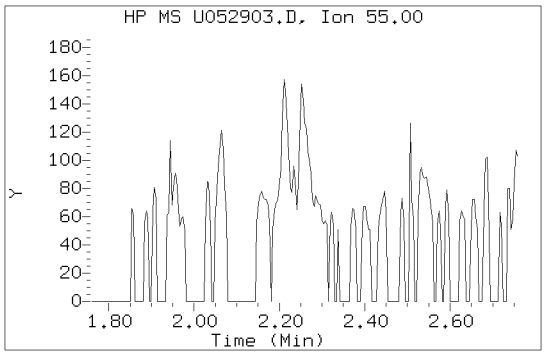
BEFORE

MASS
55
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



AFTER

MASS
55
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid

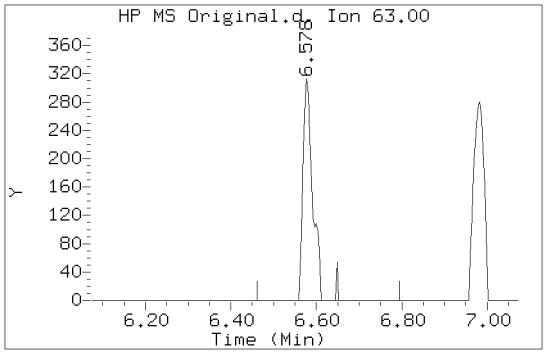


2-Chloroethylvinyl ether (110-75-8)

Reason Code:

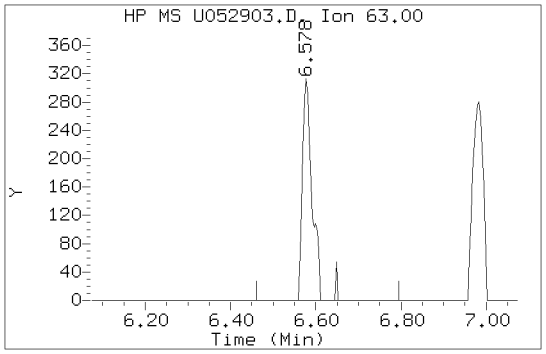
BEFORE

MASS
63
AREA
505
HEIGHT
313
06-Jun-2024
17:10
s
zaid



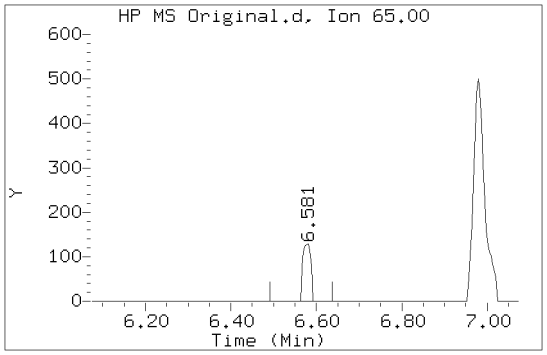
AFTER

MASS
63
AREA
505
HEIGHT
313
06-Jun-2024
17:10
s
zaid



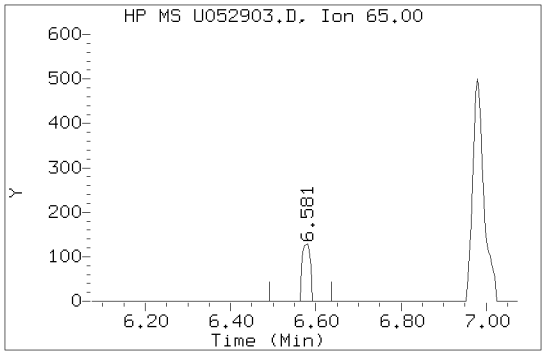
BEFORE

MASS
65
AREA
171
HEIGHT
128
06-Jun-2024
17:10
s
zaid



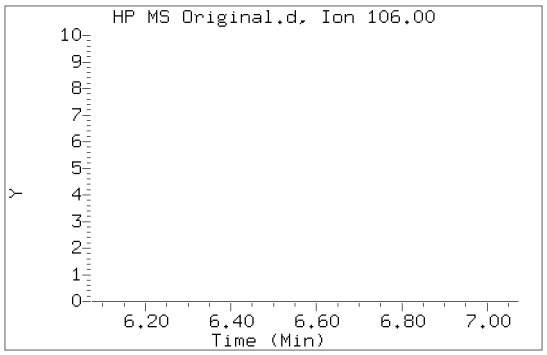
AFTER

MASS
65
AREA
171
HEIGHT
128
06-Jun-2024
17:10
s
zaid



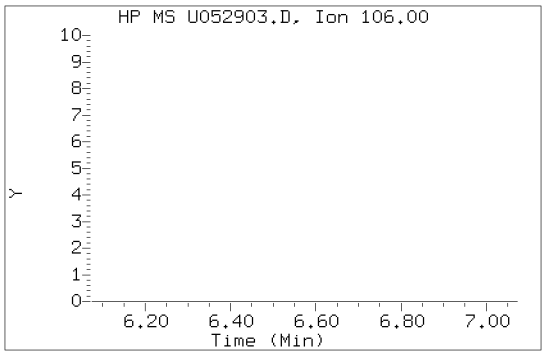
BEFORE

MASS
106
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



AFTER

MASS
106
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



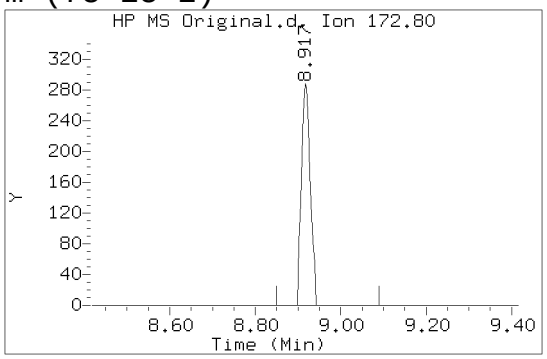
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052903.D
Inj Date : 29-MAY-2024 11:00
InstruID : VOA9.i
LabSampID : VSTD00.5

Bromoform (75-25-2)

Reason Code:

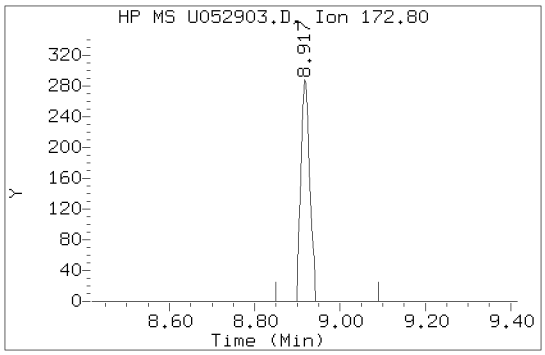
BEFORE

MASS
172.8
AREA
424
HEIGHT
288
06-Jun-2024
17:10
s
zaid



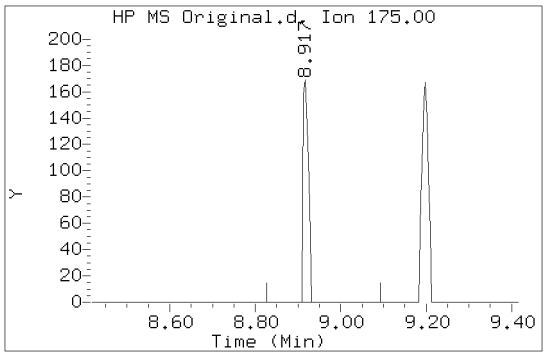
AFTER

MASS
172.8
AREA
424
HEIGHT
288
06-Jun-2024
17:10
s
zaid



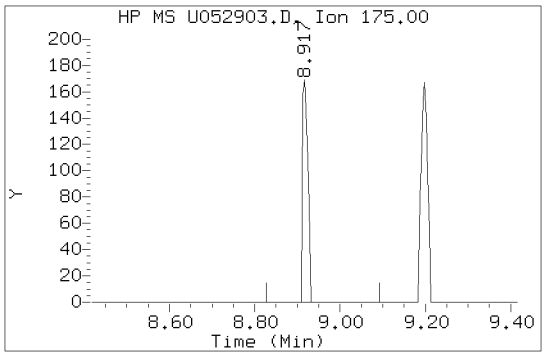
BEFORE

MASS
175
AREA
147
HEIGHT
169
06-Jun-2024
17:10
s
zaid



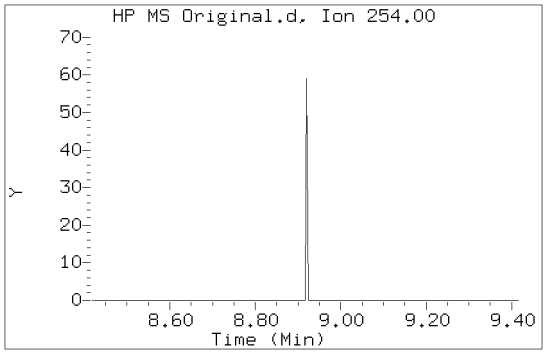
AFTER

MASS
175
AREA
147
HEIGHT
169
06-Jun-2024
17:10
s
zaid



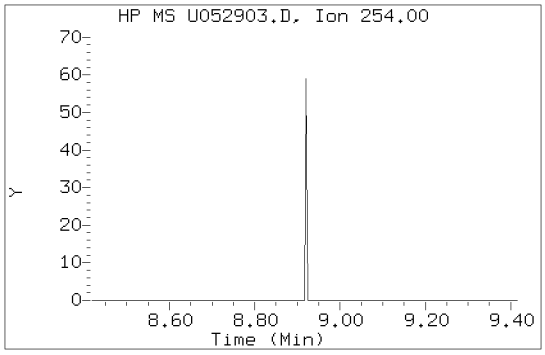
BEFORE

MASS
254
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



AFTER

MASS
254
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid

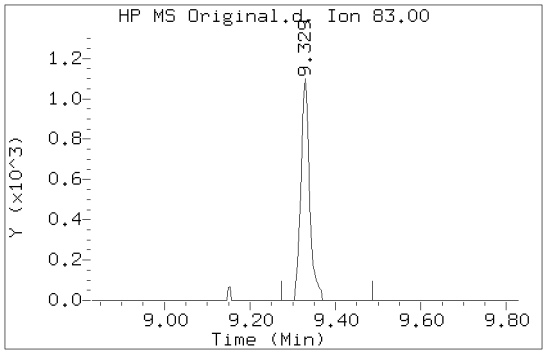


1,1,2,2-Tetrachloroethane (79-34-5)

Reason Code:

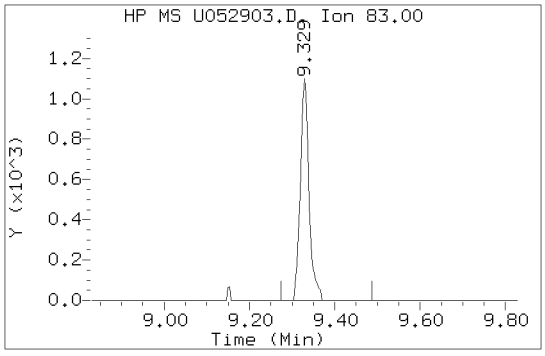
BEFORE

MASS
83
AREA
1594
HEIGHT
1100
06-Jun-2024
17:10
s
zaid



AFTER

MASS
83
AREA
1594
HEIGHT
1100
06-Jun-2024
17:10
s
zaid

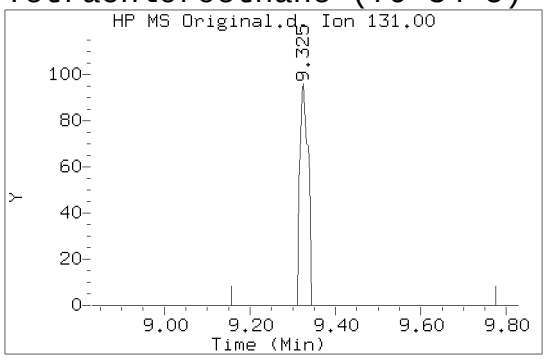


Data File : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052903.D
Inj Date : 29-MAY-2024 11:00
InstruID : VOA9.i
LabSampID : VSTD00.5

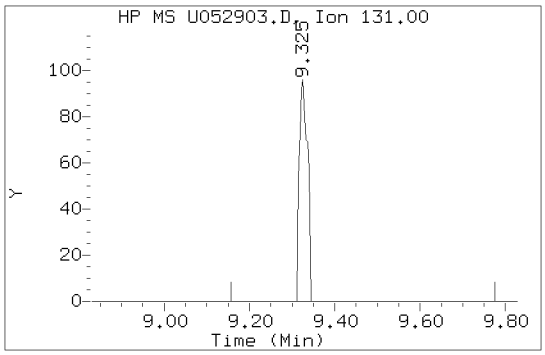
1,1,2,2-Tetrachloroethane (79-34-5)

Reason Code:

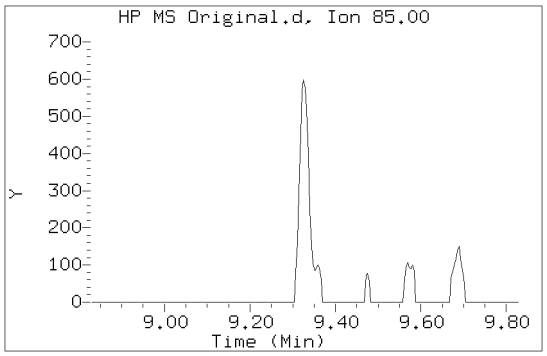
BEFORE
MASS
131
AREA
132
HEIGHT
96
06-Jun-2024
17:10
s
zaid



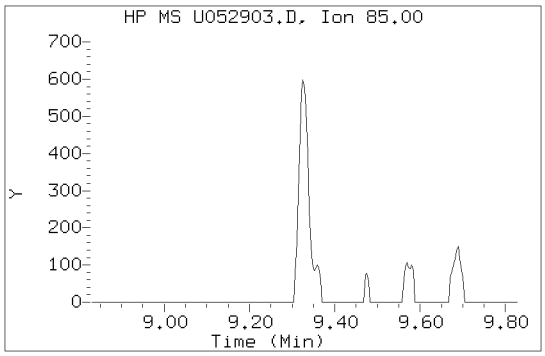
AFTER
MASS
131
AREA
132
HEIGHT
96
06-Jun-2024
17:10
s
zaid



BEFORE
MASS
85
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



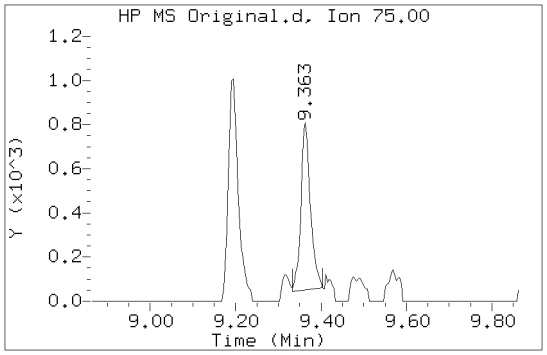
AFTER
MASS
85
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



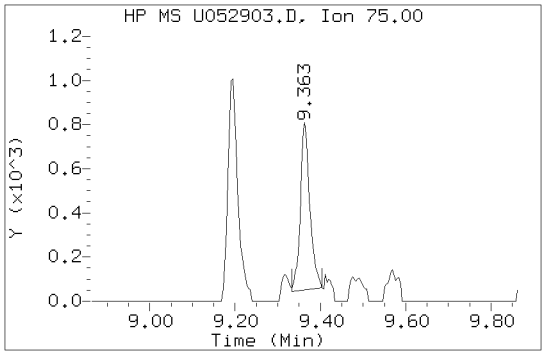
1,2,3-Trichloropropane (96-18-4)

Reason Code:

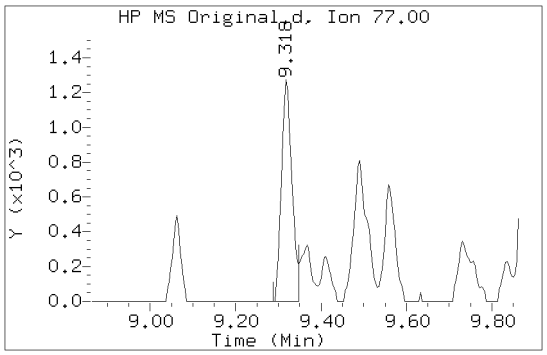
BEFORE
MASS
75
AREA
1200
HEIGHT
758
06-Jun-2024
17:10
s
zaid



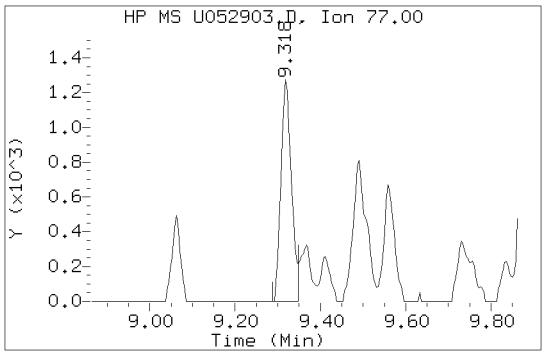
AFTER
MASS
75
AREA
1200
HEIGHT
758
06-Jun-2024
17:10
s
zaid



BEFORE
MASS
77
AREA
2191
HEIGHT
1274
06-Jun-2024
17:10
s
zaid



AFTER
MASS
77
AREA
2191
HEIGHT
1274
06-Jun-2024
17:10
s
zaid

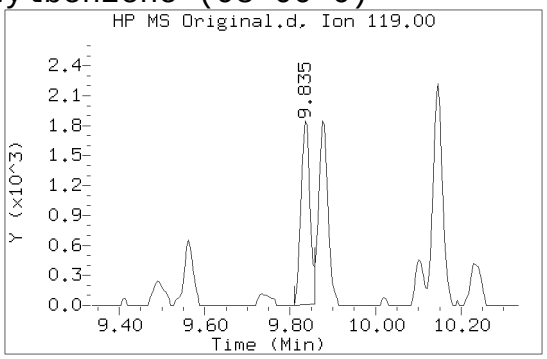


Data File : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052903.D
Inj Date : 29-MAY-2024 11:00
InstruID : VOA9.i
LabSampID : VSTD00.5

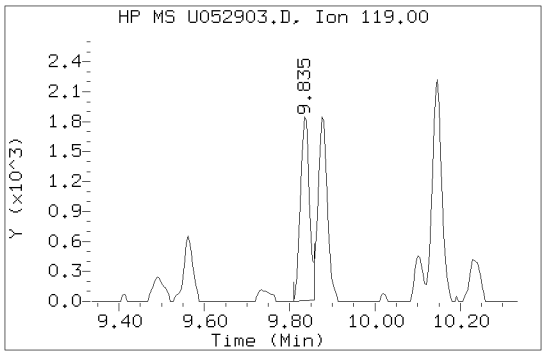
tert-Butylbenzene (98-06-6)

Reason Code:

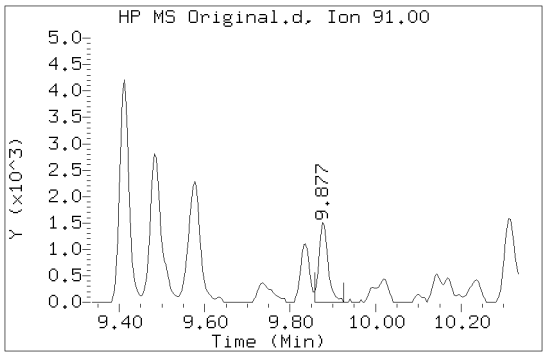
BEFORE
MASS
119
AREA
2791
HEIGHT
1843
06-Jun-2024
17:10
s
zaid



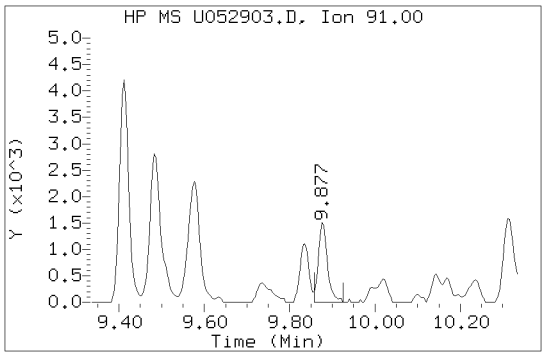
AFTER
MASS
119
AREA
2791
HEIGHT
1843
06-Jun-2024
17:10
s
zaid



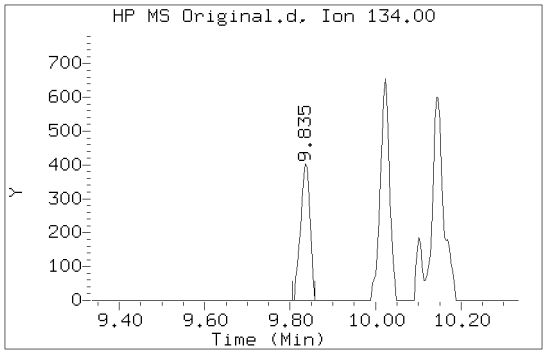
BEFORE
MASS
91
AREA
2254
HEIGHT
1507
06-Jun-2024
17:10
s
zaid



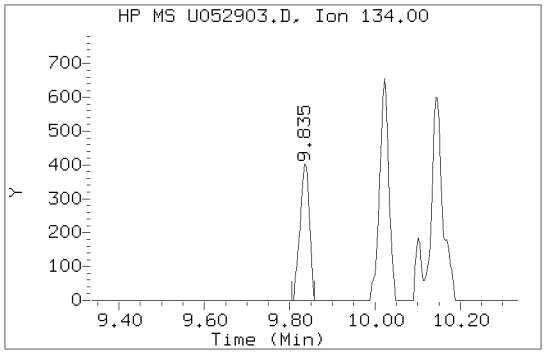
AFTER
MASS
91
AREA
2254
HEIGHT
1507
06-Jun-2024
17:10
s
zaid



BEFORE
MASS
134
AREA
638
HEIGHT
404
06-Jun-2024
17:10
s
zaid



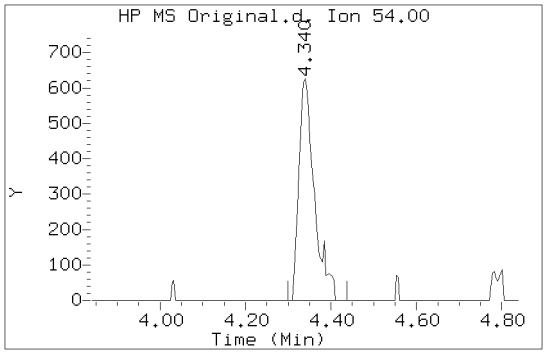
AFTER
MASS
134
AREA
638
HEIGHT
404
06-Jun-2024
17:10
s
zaid



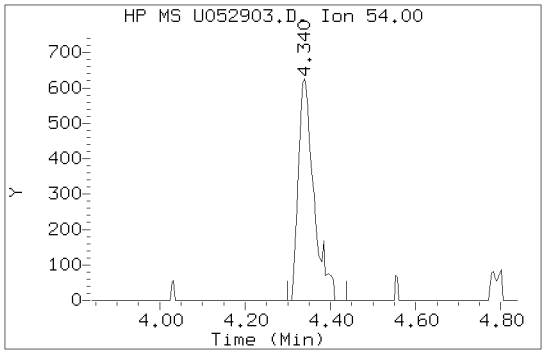
Propionitrile (107-12-0)

Reason Code:

BEFORE
MASS
54
AREA
1595
HEIGHT
626
06-Jun-2024
17:10
s
zaid



AFTER
MASS
54
AREA
1595
HEIGHT
626
06-Jun-2024
17:10
s
zaid



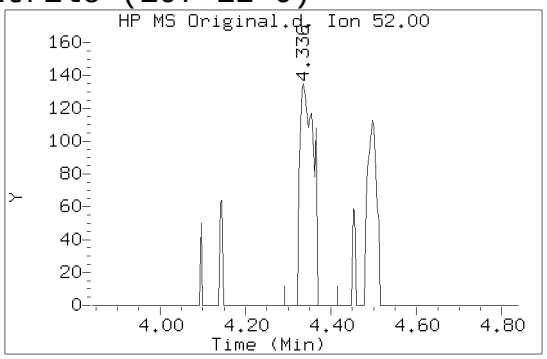
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052903.D
Inj Date : 29-MAY-2024 11:00
InstruID : VOA9.i
LabSampID : VSTD00.5

Propionitrile (107-12-0)

Reason Code:

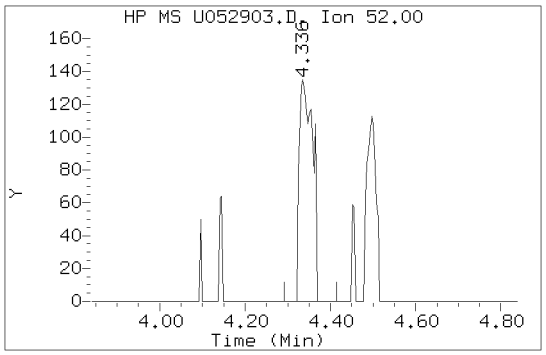
BEFORE

MASS
52
AREA
298
HEIGHT
135
06-Jun-2024
17:10
s
zaid



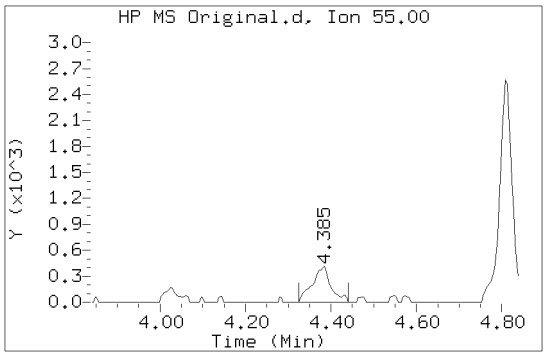
AFTER

MASS
52
AREA
298
HEIGHT
135
06-Jun-2024
17:10
s
zaid



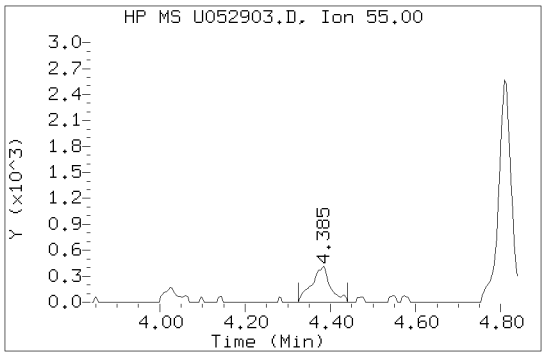
BEFORE

MASS
55
AREA
1262
HEIGHT
417
06-Jun-2024
17:10
s
zaid



AFTER

MASS
55
AREA
1262
HEIGHT
417
06-Jun-2024
17:10
s
zaid

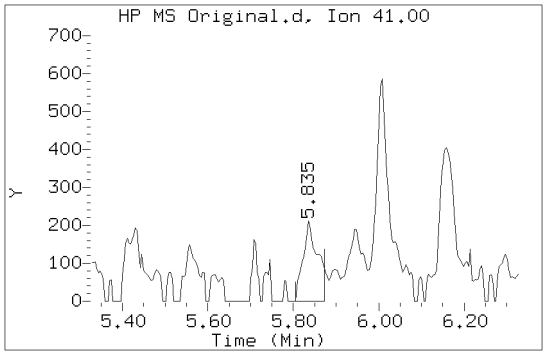


Methyl Methacrylate (80-62-6)

Reason Code:

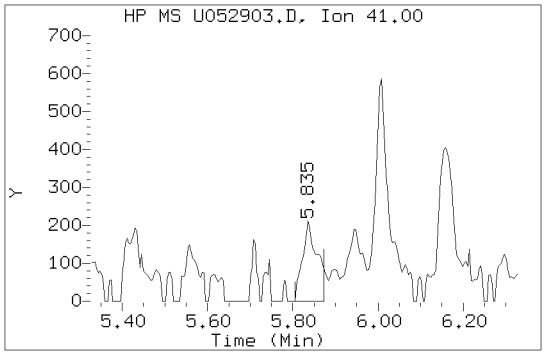
BEFORE

MASS
41
AREA
511
HEIGHT
211
06-Jun-2024
17:10
s
zaid



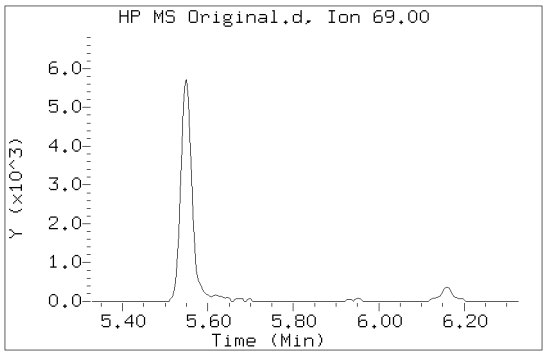
AFTER

MASS
41
AREA
511
HEIGHT
211
06-Jun-2024
17:10
s
zaid



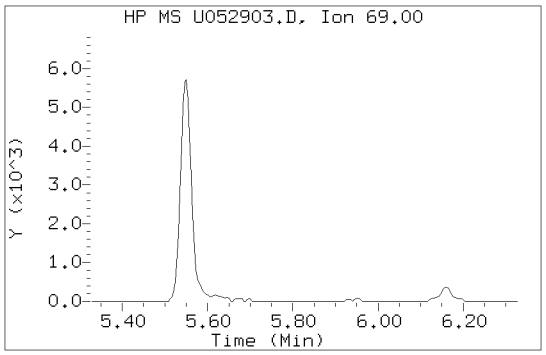
BEFORE

MASS
69
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



AFTER

MASS
69
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



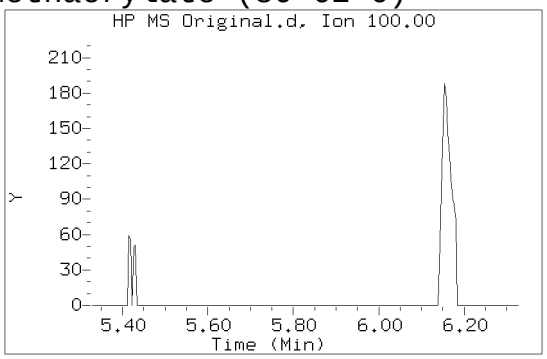
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052903.D
Inj Date : 29-MAY-2024 11:00
InstruID : VOA9.i
LabSampID : VSTD00.5

Methyl Methacrylate (80-62-6)

Reason Code:

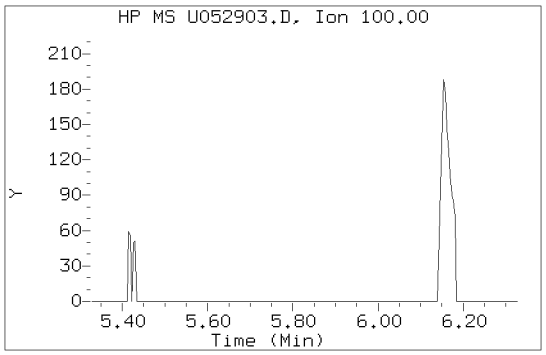
BEFORE

MASS
100
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



AFTER

MASS
100
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid

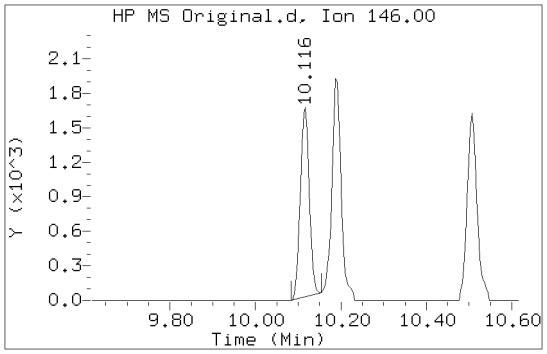


1,3-Dichlorobenzene (541-73-1)

Reason Code:

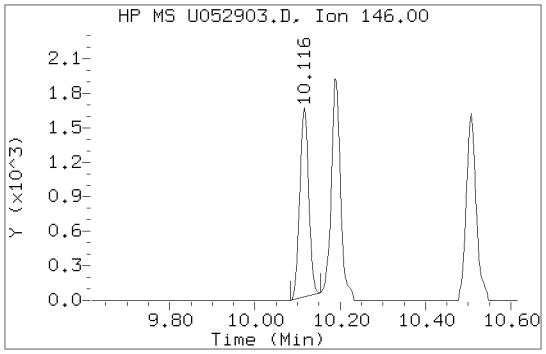
BEFORE

MASS
146
AREA
2434
HEIGHT
1644
06-Jun-2024
17:10
s
zaid



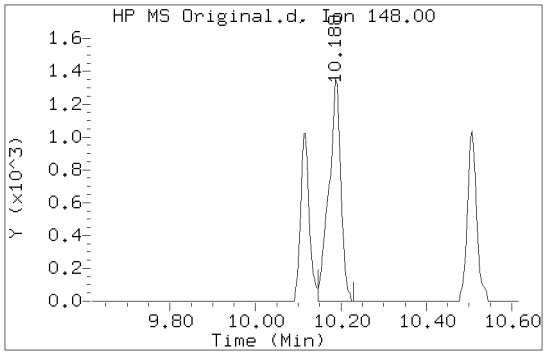
AFTER

MASS
146
AREA
2434
HEIGHT
1644
06-Jun-2024
17:10
s
zaid



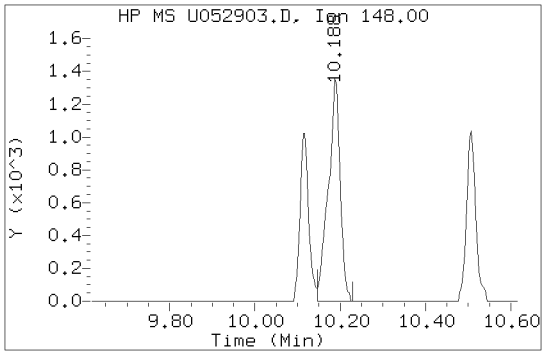
BEFORE

MASS
148
AREA
2623
HEIGHT
1354
06-Jun-2024
17:10
s
zaid



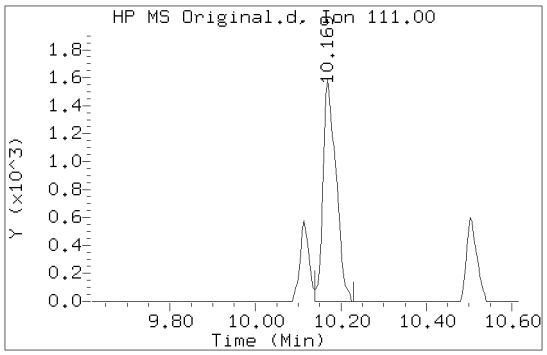
AFTER

MASS
148
AREA
2623
HEIGHT
1354
06-Jun-2024
17:10
s
zaid



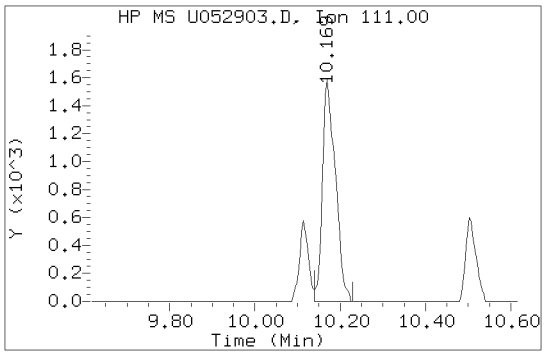
BEFORE

MASS
111
AREA
3341
HEIGHT
1586
06-Jun-2024
17:10
s
zaid



AFTER

MASS
111
AREA
3341
HEIGHT
1586
06-Jun-2024
17:10
s
zaid



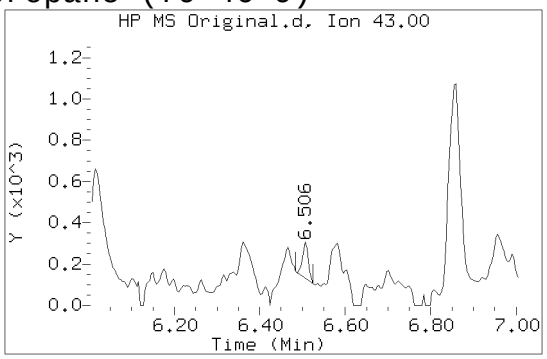
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052903.D
Inj Date : 29-MAY-2024 11:00
InstruID : VOA9.i
LabSampID : VSTD00.5

2-Nitropropane (79-46-9)

Reason Code:

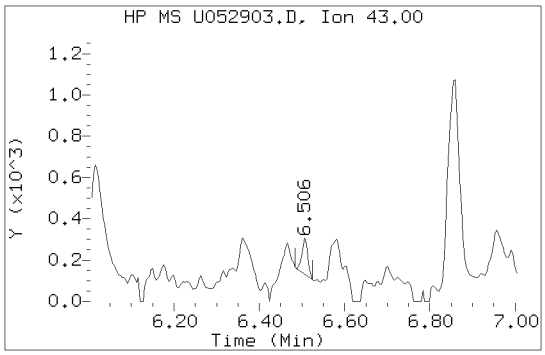
BEFORE

MASS
43
AREA
164
HEIGHT
173
06-Jun-2024
17:10
s
zaid



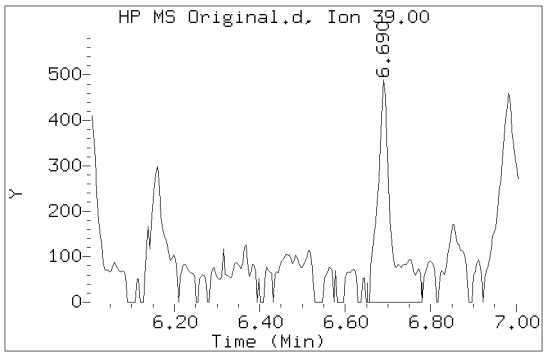
AFTER

MASS
43
AREA
164
HEIGHT
173
06-Jun-2024
17:10
s
zaid



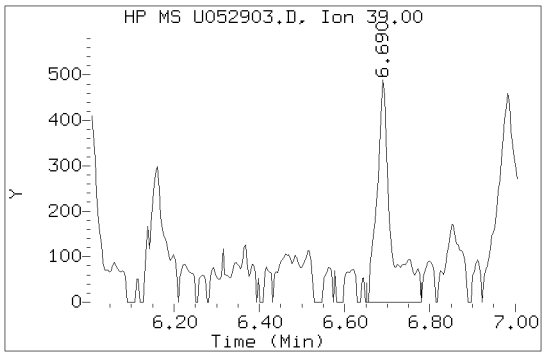
BEFORE

MASS
39
AREA
1144
HEIGHT
489
06-Jun-2024
17:10
s
zaid



AFTER

MASS
39
AREA
1144
HEIGHT
489
06-Jun-2024
17:10
s
zaid

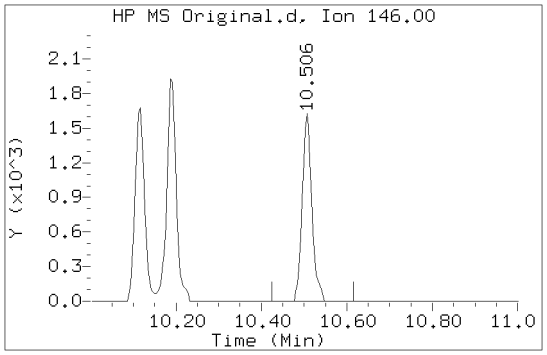


1,2-Dichlorobenzene (95-50-1)

Reason Code:

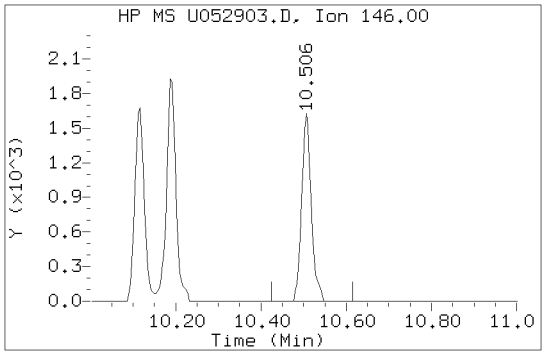
BEFORE

MASS
146
AREA
2607
HEIGHT
1628
06-Jun-2024
17:10
s
zaid



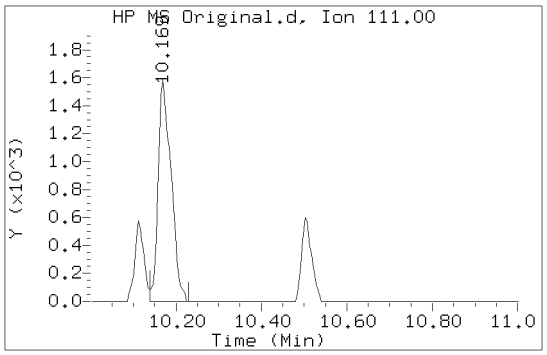
AFTER

MASS
146
AREA
2607
HEIGHT
1628
06-Jun-2024
17:10
s
zaid



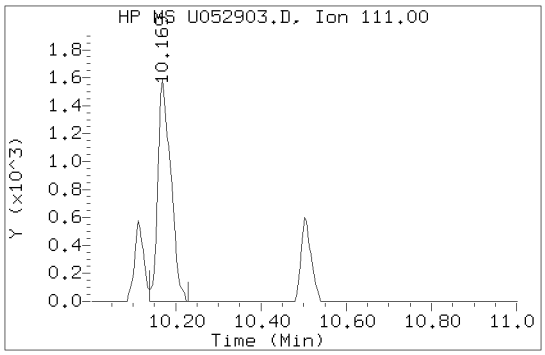
BEFORE

MASS
111
AREA
3341
HEIGHT
1586
06-Jun-2024
17:10
s
zaid



AFTER

MASS
111
AREA
3341
HEIGHT
1586
06-Jun-2024
17:10
s
zaid



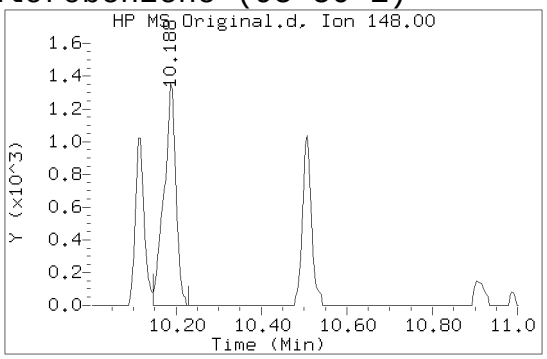
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052903.D
Inj Date : 29-MAY-2024 11:00
InstruID : VOA9.i
LabSampID : VSTD00.5

1,2-Dichlorobenzene (95-50-1)

Reason Code:

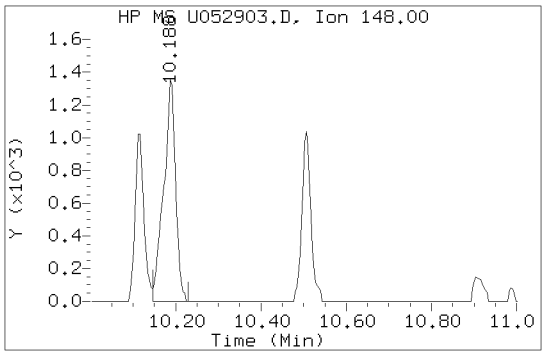
BEFORE

MASS
148
AREA
2623
HEIGHT
1354
06-Jun-2024
17:10
s
zaid



AFTER

MASS
148
AREA
2623
HEIGHT
1354
06-Jun-2024
17:10
s
zaid

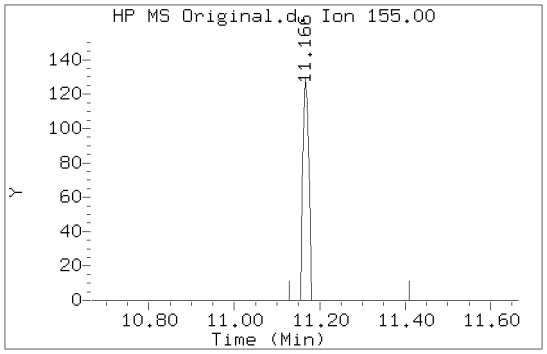


1,2-Dibromo-3-Chloropropane (96-12-8)

Reason Code:

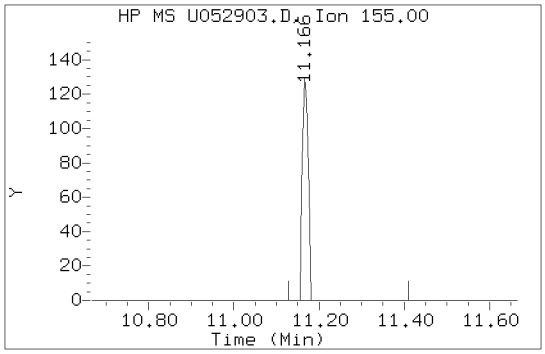
BEFORE

MASS
155
AREA
128
HEIGHT
129
06-Jun-2024
17:10
s
zaid



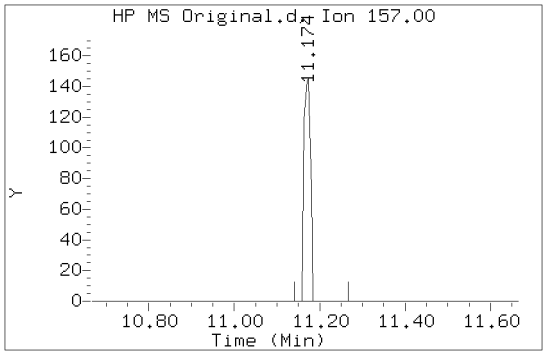
AFTER

MASS
155
AREA
128
HEIGHT
129
06-Jun-2024
17:10
s
zaid



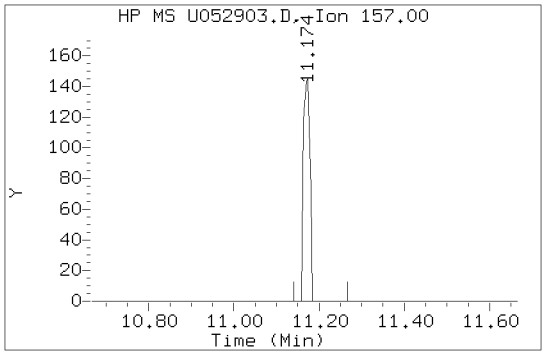
BEFORE

MASS
157
AREA
162
HEIGHT
145
06-Jun-2024
17:10
s
zaid



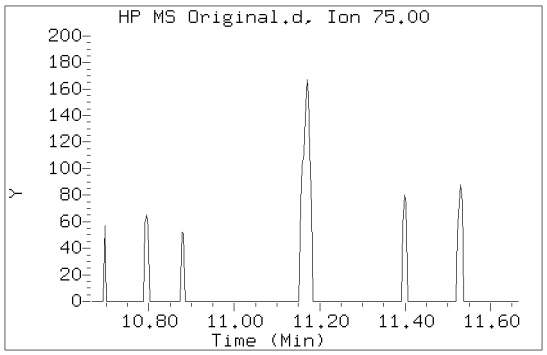
AFTER

MASS
157
AREA
162
HEIGHT
145
06-Jun-2024
17:10
s
zaid



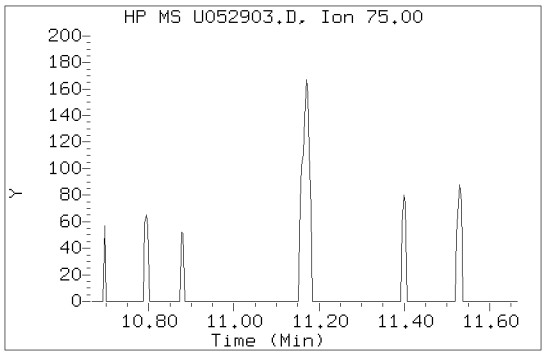
BEFORE

MASS
75
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



AFTER

MASS
75
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid

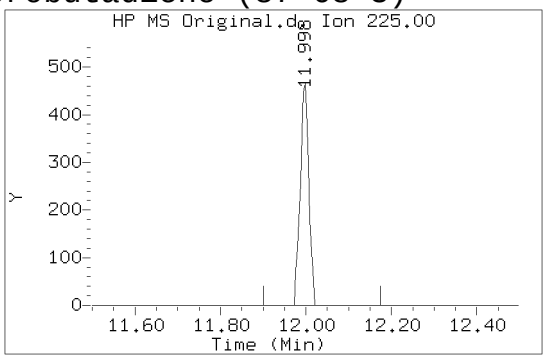


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Inj Date : 29-MAY-2024 11:00
InstruID : VOA9.i
LabSampID : VSTD00.5

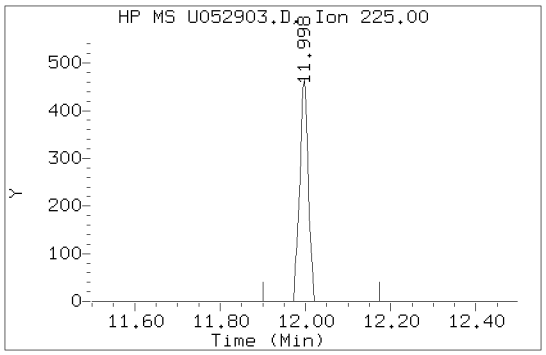
Hexachlorobutadiene (87-68-3)

Reason Code:

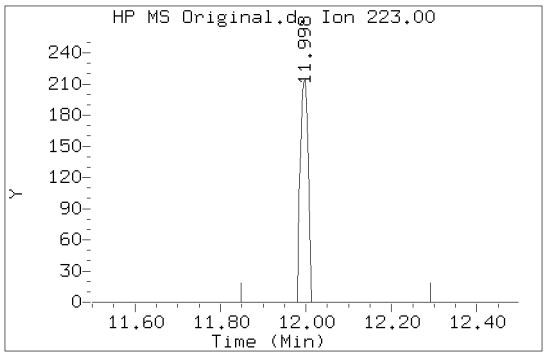
BEFORE
MASS
225
AREA
668
HEIGHT
465
06-Jun-2024
17:10
s
zaid



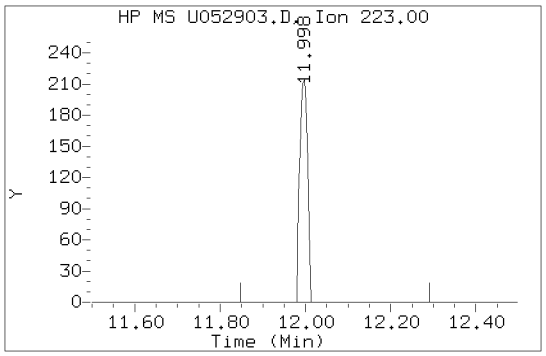
AFTER
MASS
225
AREA
668
HEIGHT
465
06-Jun-2024
17:10
s
zaid



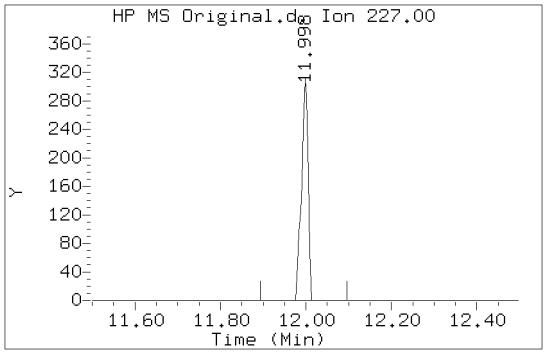
BEFORE
MASS
223
AREA
283
HEIGHT
214
06-Jun-2024
17:10
s
zaid



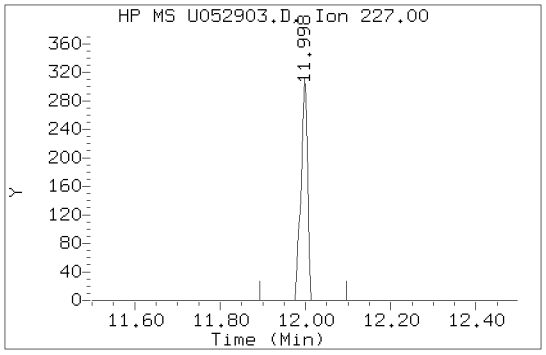
AFTER
MASS
223
AREA
283
HEIGHT
214
06-Jun-2024
17:10
s
zaid



BEFORE
MASS
227
AREA
341
HEIGHT
311
06-Jun-2024
17:10
s
zaid



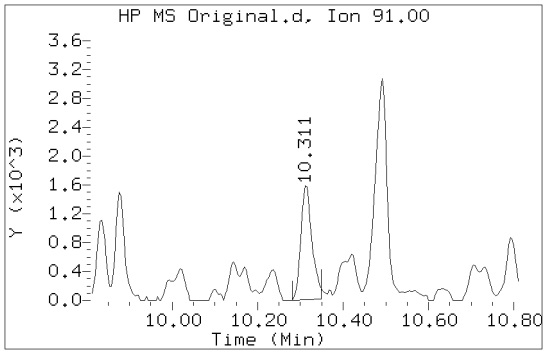
AFTER
MASS
227
AREA
341
HEIGHT
311
06-Jun-2024
17:10
s
zaid



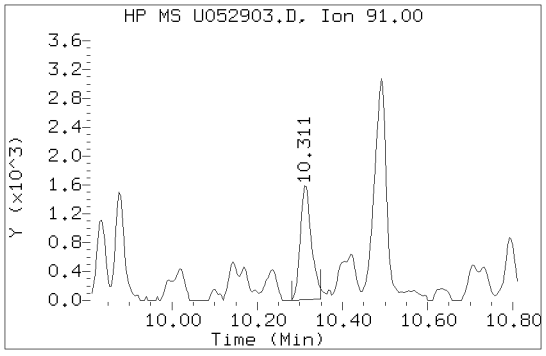
Benzyl Chloride (100-44-7)

Reason Code:

BEFORE
MASS
91
AREA
2950
HEIGHT
1579
06-Jun-2024
17:10
s
zaid



AFTER
MASS
91
AREA
2950
HEIGHT
1579
06-Jun-2024
17:10
s
zaid

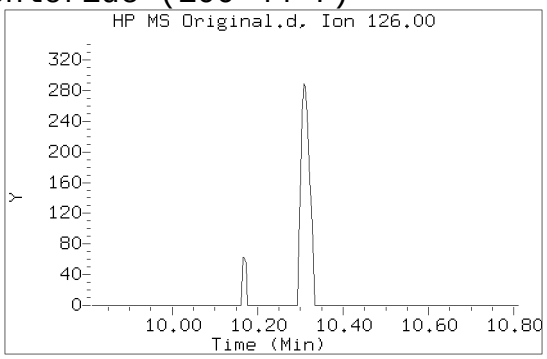


Data File : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052903.D
Inj Date : 29-MAY-2024 11:00
InstruID : VOA9.i
LabSampID : VSTD00.5

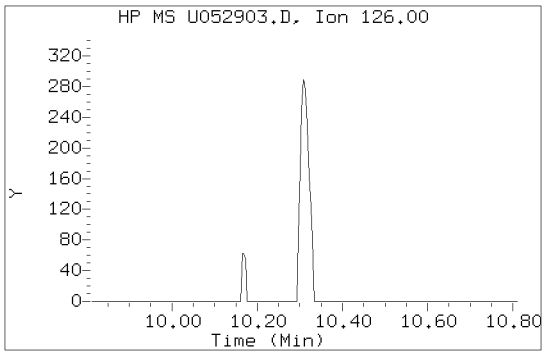
Benzyl Chloride (100-44-7)

Reason Code:

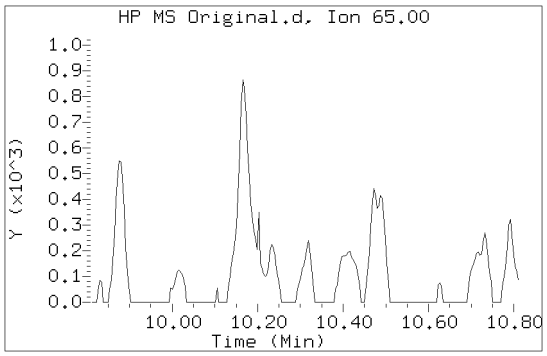
BEFORE
MASS
126
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



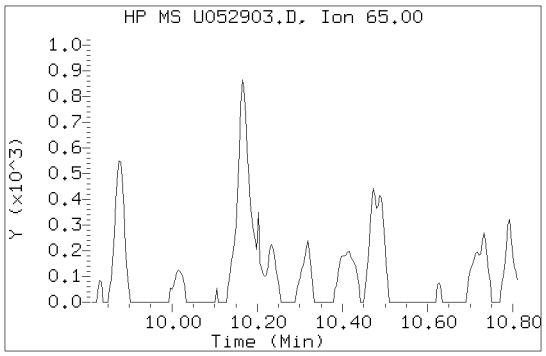
AFTER
MASS
126
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



BEFORE
MASS
65
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



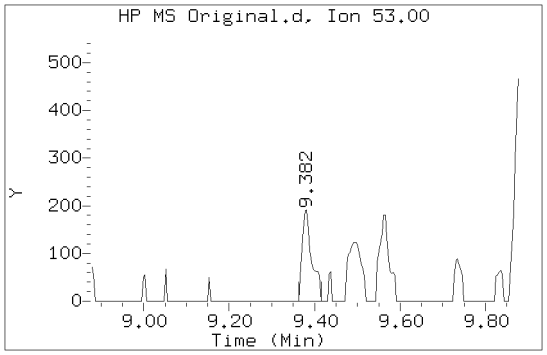
AFTER
MASS
65
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



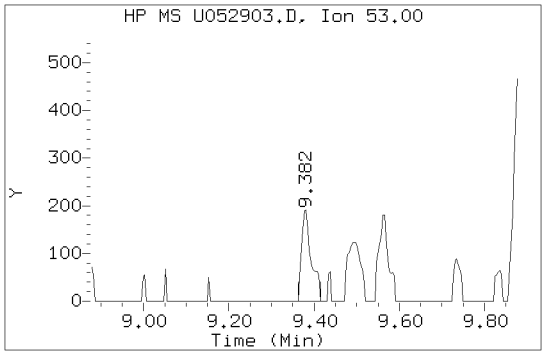
trans-1,4-Dichloro-2-butene (110-57-6)

Reason Code:

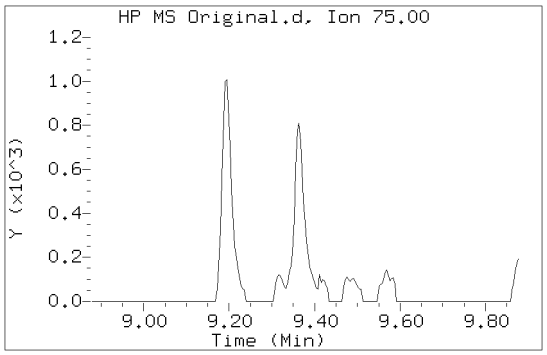
BEFORE
MASS
53
AREA
306
HEIGHT
192
06-Jun-2024
17:10
s
zaid



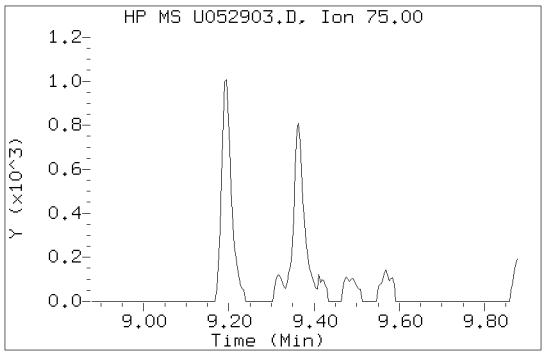
AFTER
MASS
53
AREA
306
HEIGHT
192
06-Jun-2024
17:10
s
zaid



BEFORE
MASS
75
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



AFTER
MASS
75
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



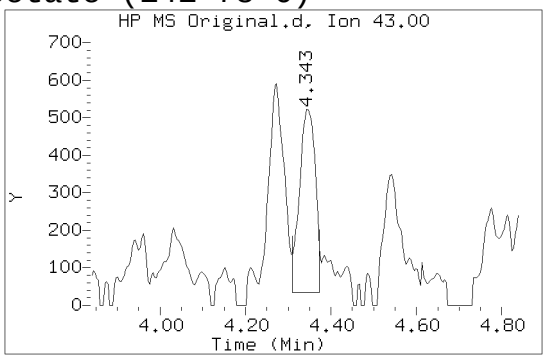
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052903.D
Inj Date : 29-MAY-2024 11:00
InstruID : VOA9.i
LabSampID : VSTD00.5

Ethyl Acetate (141-78-6)

Reason Code:

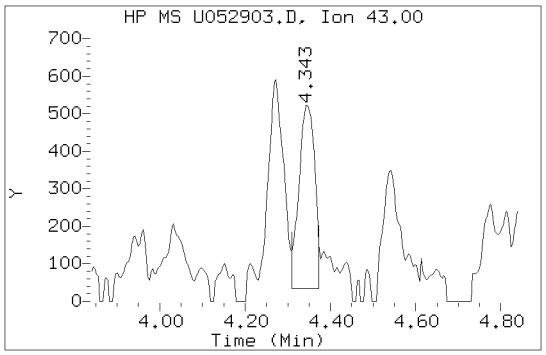
BEFORE

MASS
43
AREA
1284
HEIGHT
488
06-Jun-2024
17:10
s
zaid



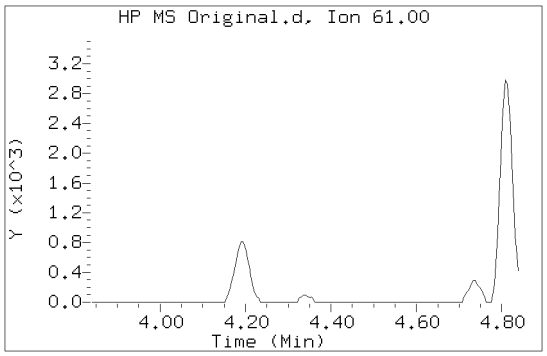
AFTER

MASS
43
AREA
1284
HEIGHT
488
06-Jun-2024
17:10
s
zaid



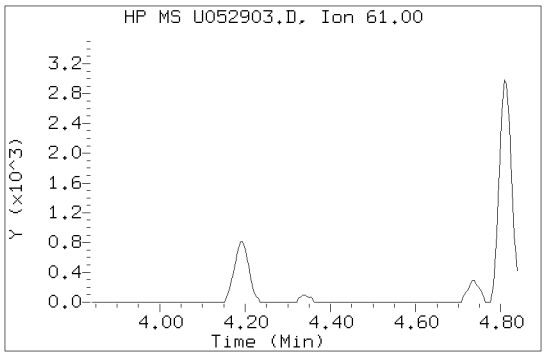
BEFORE

MASS
61
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



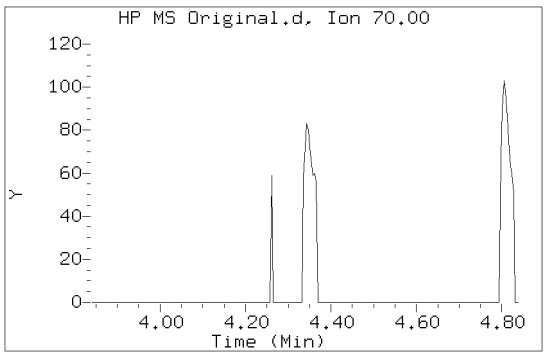
AFTER

MASS
61
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



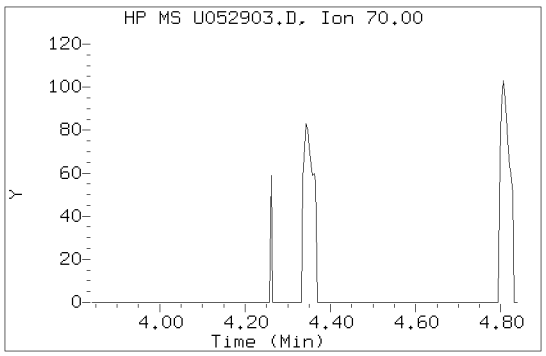
BEFORE

MASS
70
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



AFTER

MASS
70
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid

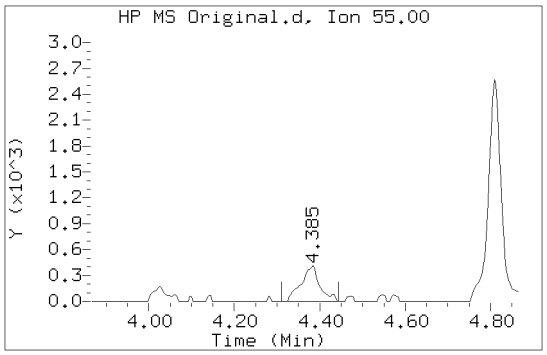


Methyl Acrylate (96-33-3)

Reason Code:

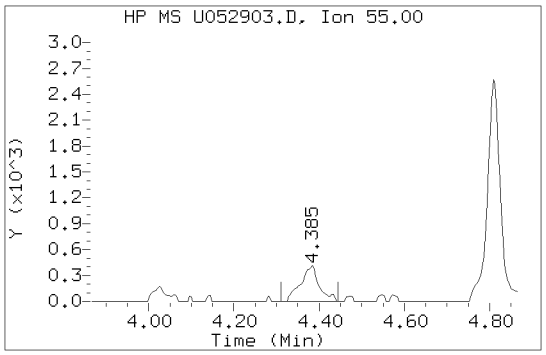
BEFORE

MASS
55
AREA
1262
HEIGHT
417
06-Jun-2024
17:10
s
zaid



AFTER

MASS
55
AREA
1262
HEIGHT
417
06-Jun-2024
17:10
s
zaid



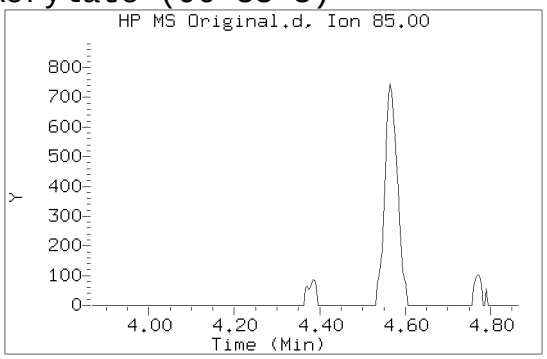
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052903.D
Inj Date : 29-MAY-2024 11:00
InstruID : VOA9.i
LabSampID : VSTD00.5

Methyl Acrylate (96-33-3)

Reason Code:

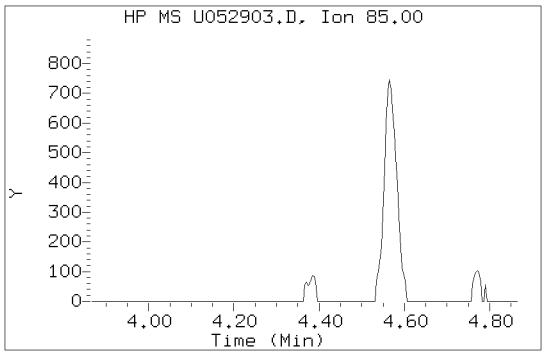
BEFORE

MASS
85
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



AFTER

MASS
85
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid

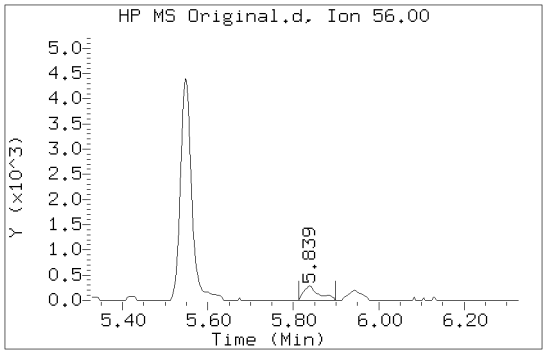


n-Butanol (71-36-3)

Reason Code:

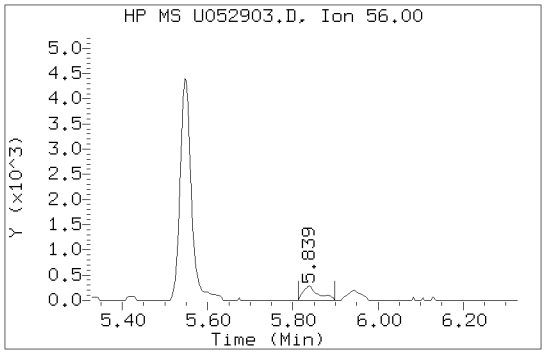
BEFORE

MASS
56
AREA
701
HEIGHT
286
06-Jun-2024
17:10
s
zaid



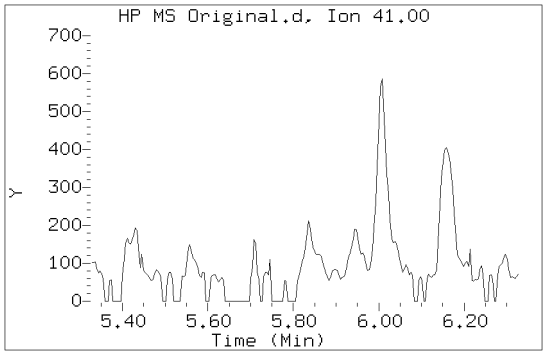
AFTER

MASS
56
AREA
701
HEIGHT
286
06-Jun-2024
17:10
s
zaid



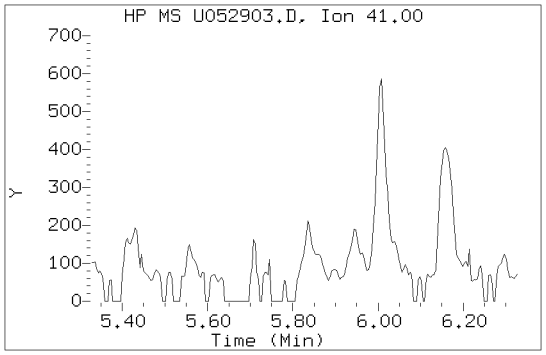
BEFORE

MASS
41
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



AFTER

MASS
41
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid

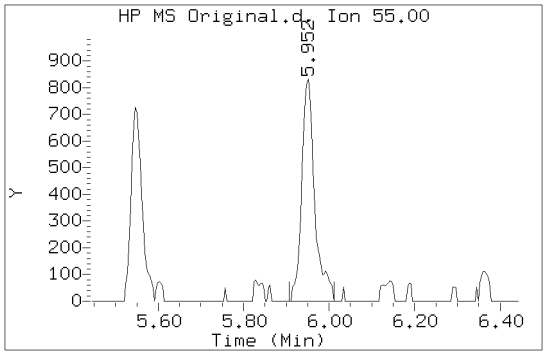


Ethyl Acrylate (140-88-5)

Reason Code:

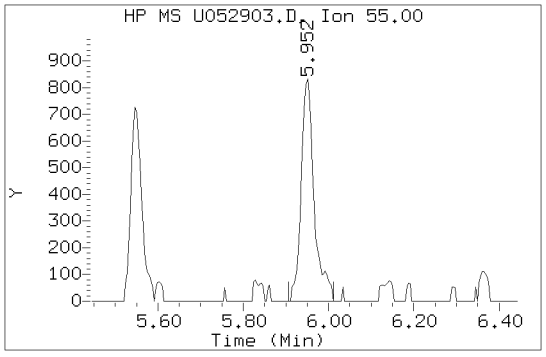
BEFORE

MASS
55
AREA
1801
HEIGHT
833
06-Jun-2024
17:10
s
zaid



AFTER

MASS
55
AREA
1801
HEIGHT
833
06-Jun-2024
17:10
s
zaid



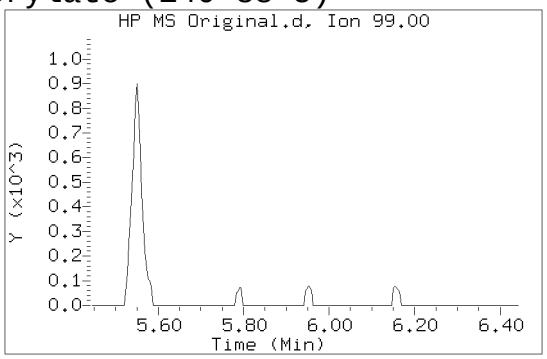
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052903.D
Inj Date : 29-MAY-2024 11:00
InstruID : VOA9.i
LabSampID : VSTD00.5

Ethyl Acrylate (140-88-5)

Reason Code:

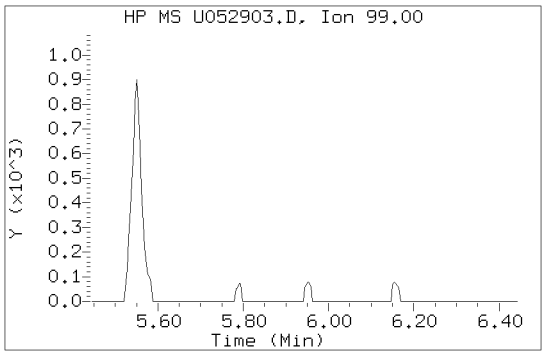
BEFORE

MASS
99
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



AFTER

MASS
99
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid

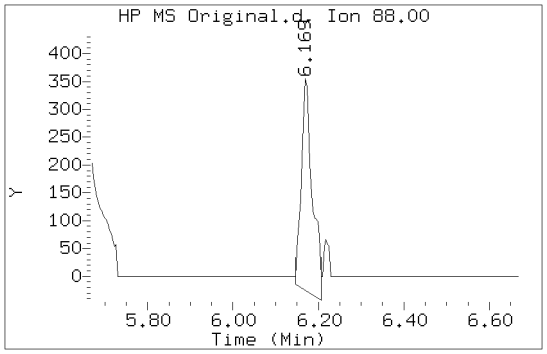


1,4-Dioxane ()

Reason Code:

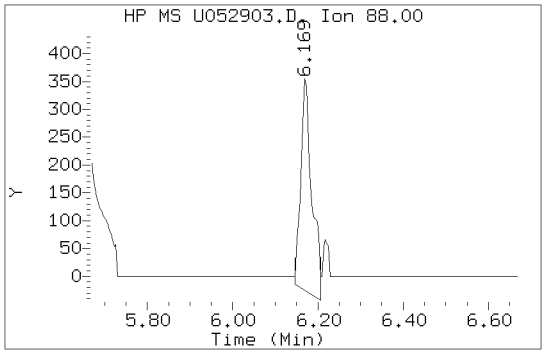
BEFORE

MASS
88
AREA
700
HEIGHT
379
06-Jun-2024
17:10
s
zaid



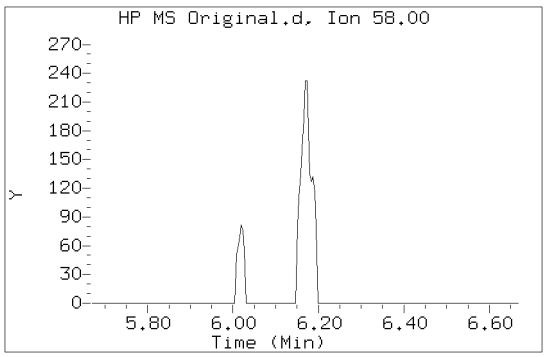
AFTER

MASS
88
AREA
700
HEIGHT
379
06-Jun-2024
17:10
s
zaid



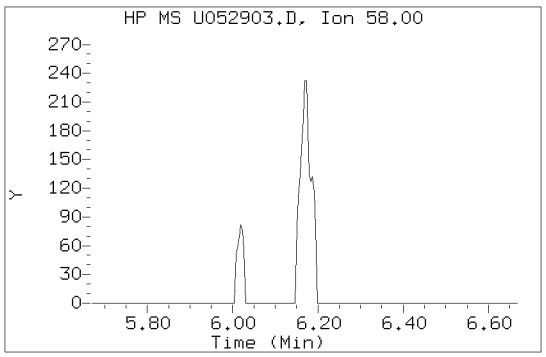
BEFORE

MASS
58
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



AFTER

MASS
58
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid

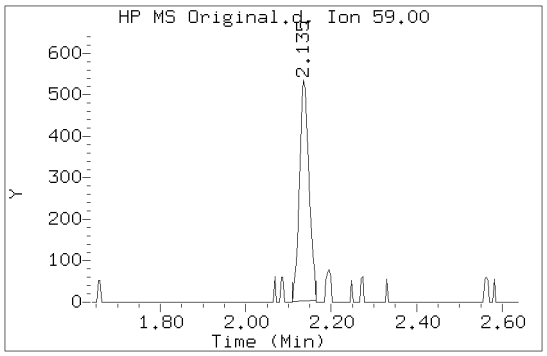


Diethyl ether (60-29-7)

Reason Code:

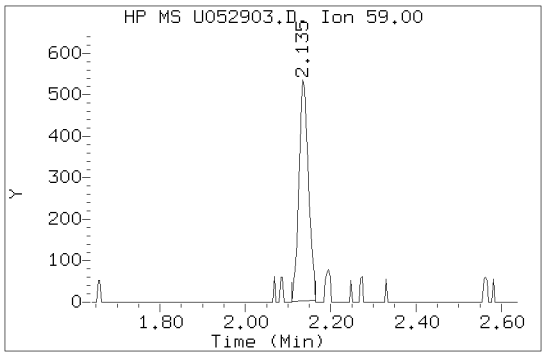
BEFORE

MASS
59
AREA
846
HEIGHT
533
06-Jun-2024
17:10
s
zaid



AFTER

MASS
59
AREA
846
HEIGHT
533
06-Jun-2024
17:10
s
zaid

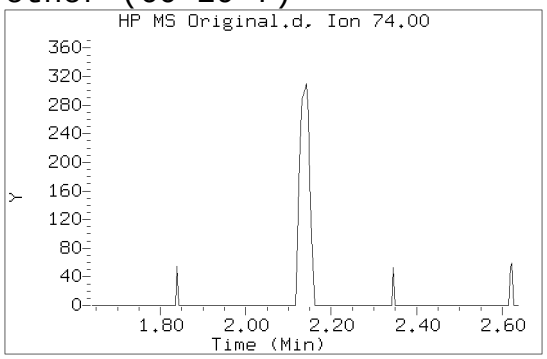


Data File : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052903.D
Inj Date : 29-MAY-2024 11:00
InstruID : VOA9.i
LabSampID : VSTD00.5

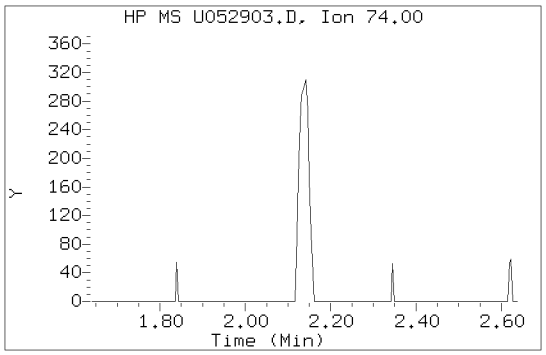
Diethyl ether (60-29-7)

Reason Code:

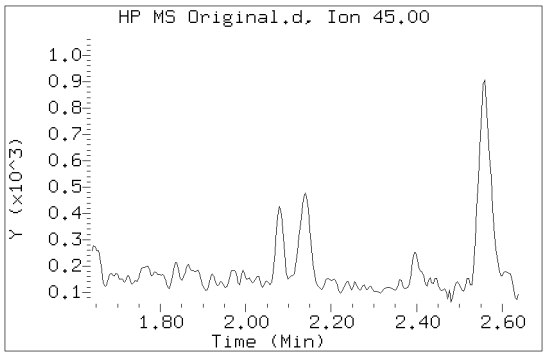
BEFORE
MASS
74
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



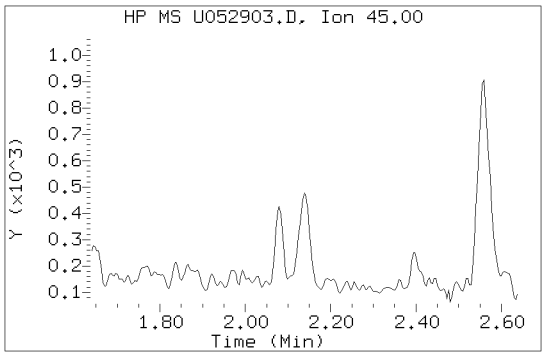
AFTER
MASS
74
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



BEFORE
MASS
45
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



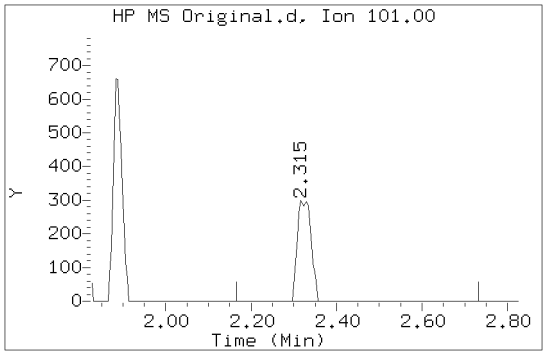
AFTER
MASS
45
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



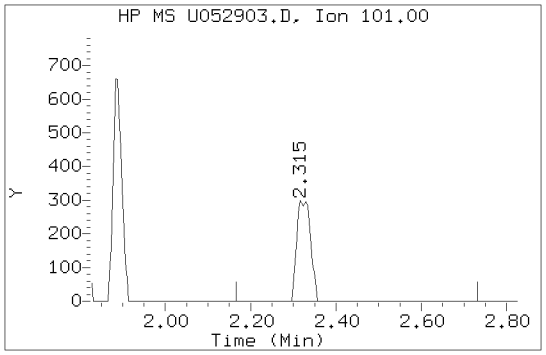
Freon TF (76-13-1)

Reason Code:

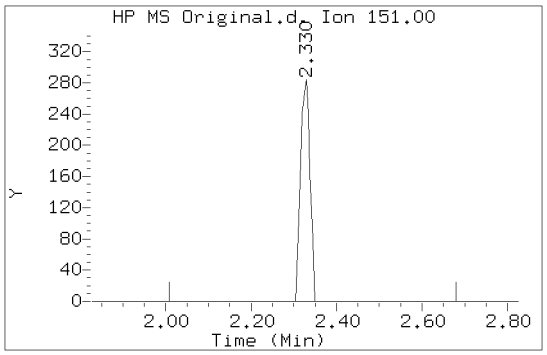
BEFORE
MASS
101
AREA
683
HEIGHT
299
06-Jun-2024
17:10
s
zaid



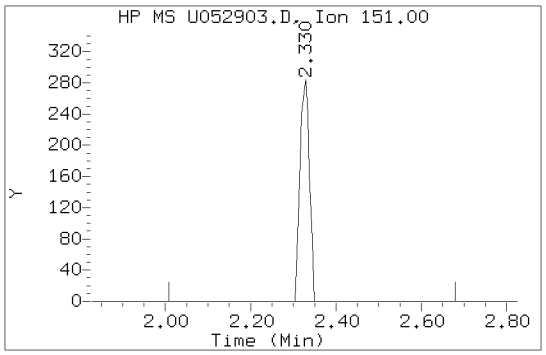
AFTER
MASS
101
AREA
683
HEIGHT
299
06-Jun-2024
17:10
s
zaid



BEFORE
MASS
151
AREA
450
HEIGHT
284
06-Jun-2024
17:10
s
zaid



AFTER
MASS
151
AREA
450
HEIGHT
284
06-Jun-2024
17:10
s
zaid

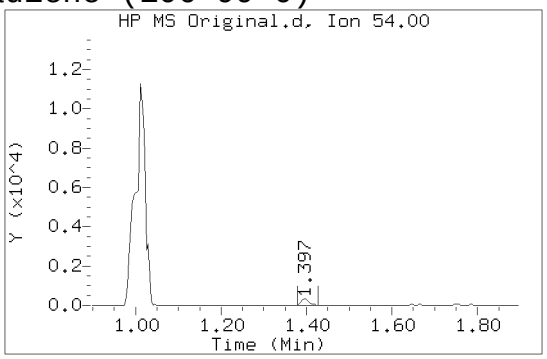


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Inj Date : 29-MAY-2024 11:00
InstruID : VOA9.i
LabSampID : VSTD00.5

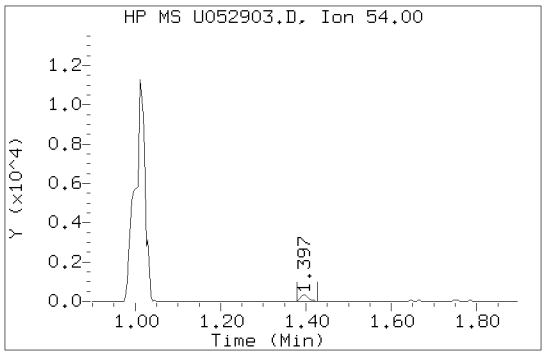
1,3-Butadiene (106-99-0)

Reason Code:

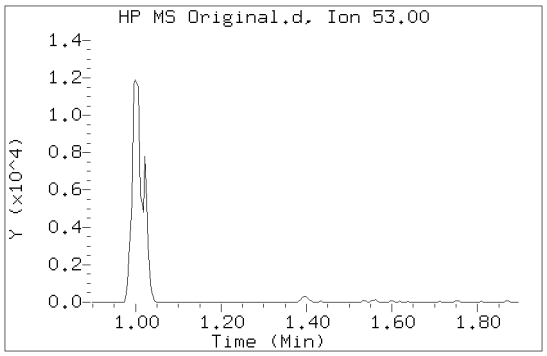
BEFORE
MASS
54
AREA
441
HEIGHT
341
06-Jun-2024
17:10
s
zaid



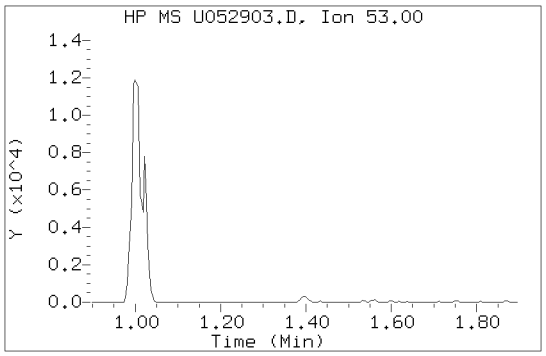
AFTER
MASS
54
AREA
441
HEIGHT
341
06-Jun-2024
17:10
s
zaid



BEFORE
MASS
53
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



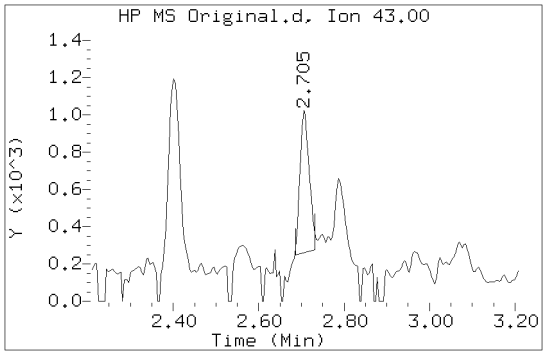
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MASS
53
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



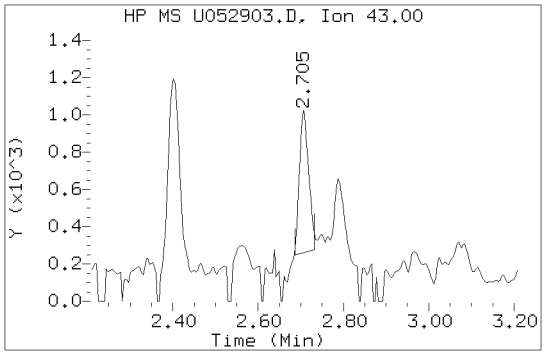
Methyl acetate (79-20-9)

Reason Code:

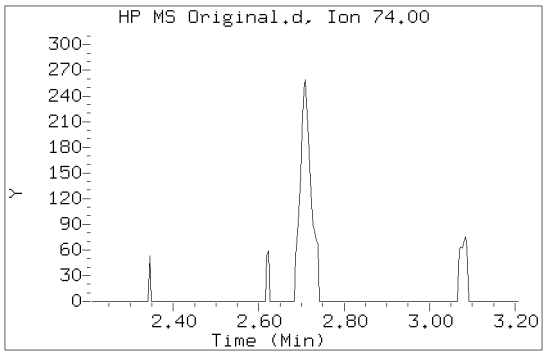
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MASS
43
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1181
HEIGHT
764
06-Jun-2024
17:10
s
zaid



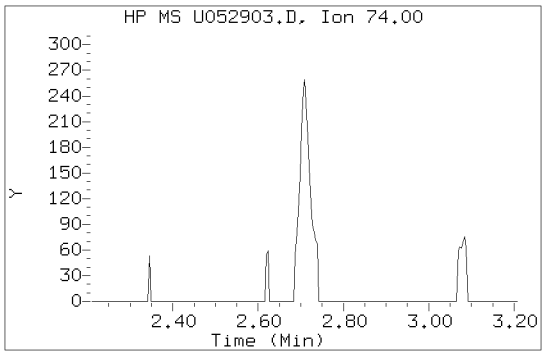
AFTER
MASS
43
AREA
1181
HEIGHT
764
06-Jun-2024
17:10
s
zaid



BEFORE
MASS
74
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



AFTER
MASS
74
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



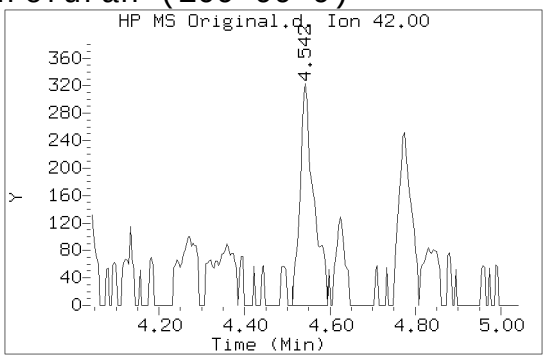
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052903.D
Inj Date : 29-MAY-2024 11:00
InstruID : VOA9.i
LabSampID : VSTD00.5

Tetrahydrofuran (109-99-9)

Reason Code:

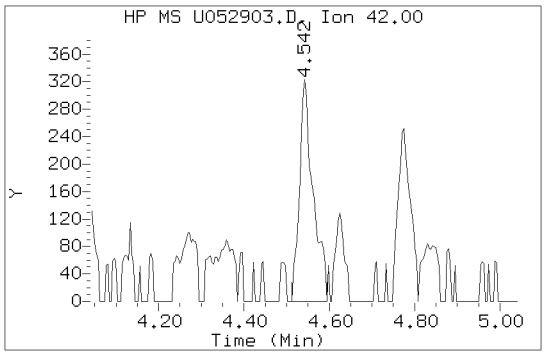
BEFORE

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42
AREA
723
HEIGHT
323
06-Jun-2024
17:10
s
zaid



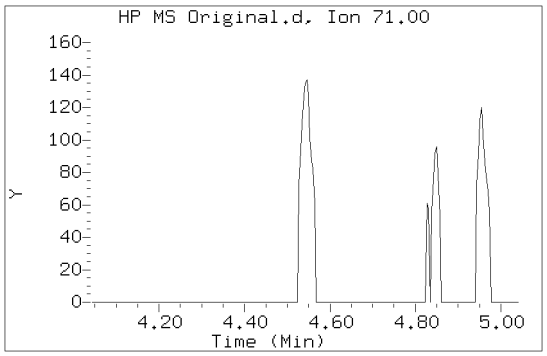
AFTER

MASS
42
AREA
723
HEIGHT
323
06-Jun-2024
17:10
s
zaid



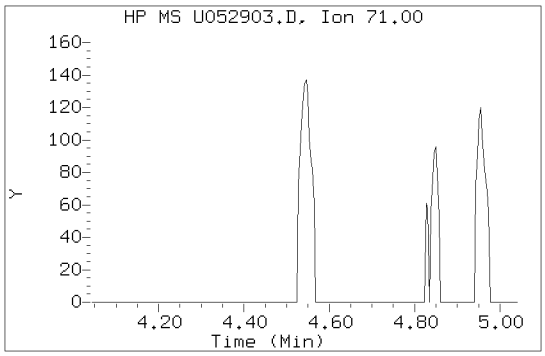
BEFORE

MASS
71
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



AFTER

MASS
71
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid

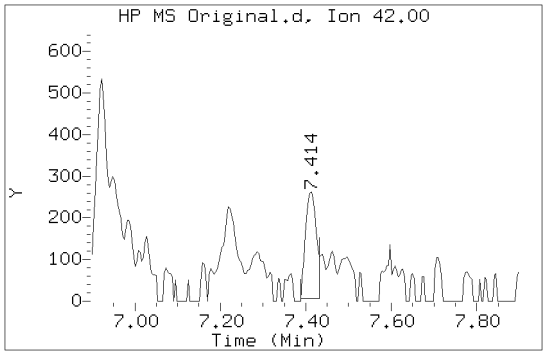


Amyl alcohol (71-41-0)

Reason Code:

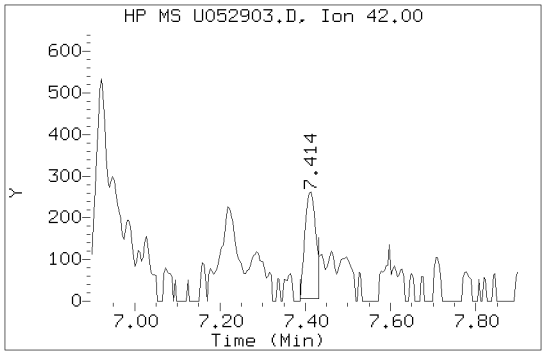
BEFORE

MASS
42
AREA
468
HEIGHT
257
06-Jun-2024
17:10
s
zaid



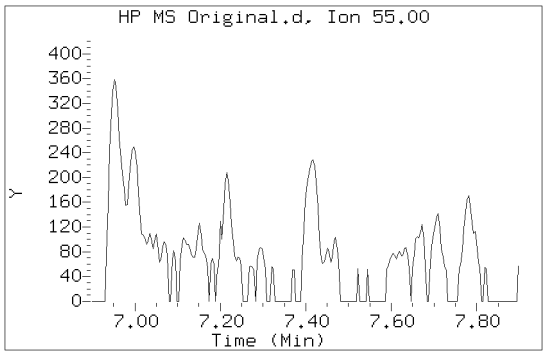
AFTER

MASS
42
AREA
468
HEIGHT
257
06-Jun-2024
17:10
s
zaid



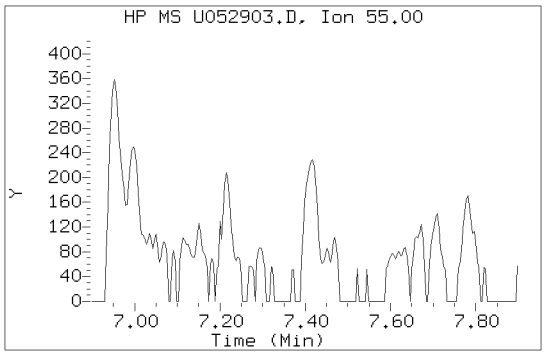
BEFORE

MASS
55
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



AFTER

MASS
55
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



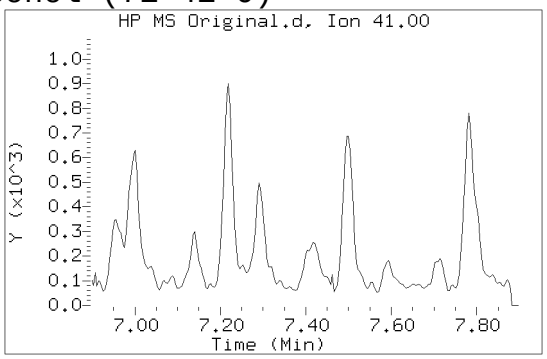
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052903.D
Inj Date : 29-MAY-2024 11:00
InstruID : VOA9.i
LabSampID : VSTD00.5

Amyl alcohol (71-41-0)

Reason Code:

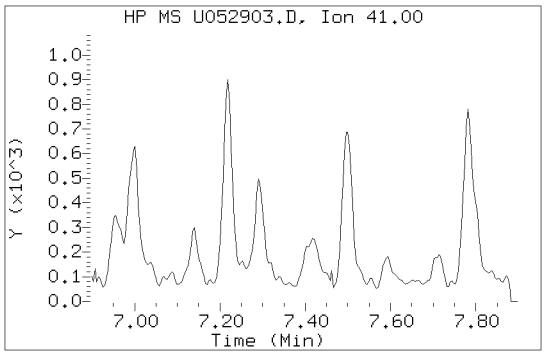
BEFORE

MASS
41
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



AFTER

MASS
41
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid

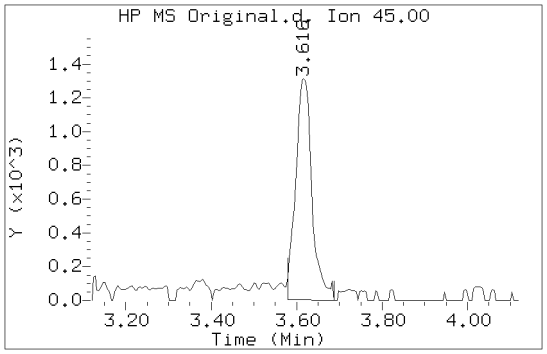


Diisopropyl ether (108-20-3)

Reason Code:

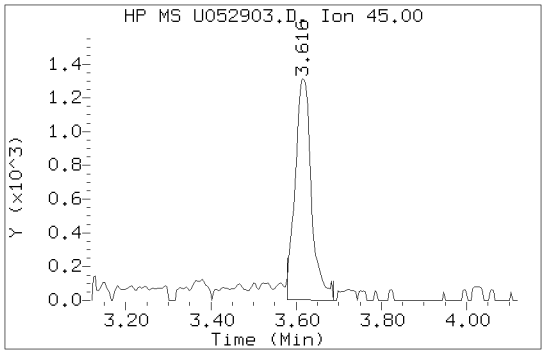
BEFORE

MASS
45
AREA
3553
HEIGHT
1312
06-Jun-2024
17:10
s
zaid



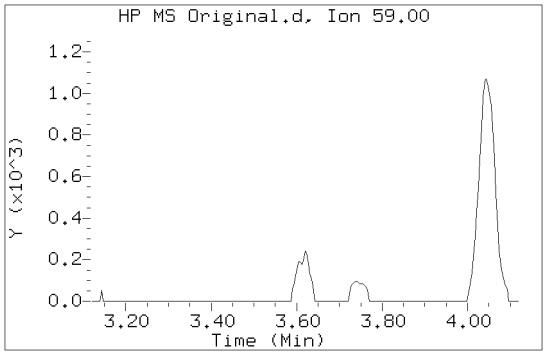
AFTER

MASS
45
AREA
3553
HEIGHT
1312
06-Jun-2024
17:10
s
zaid



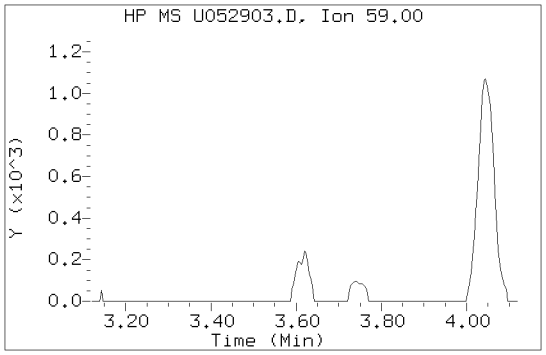
BEFORE

MASS
59
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



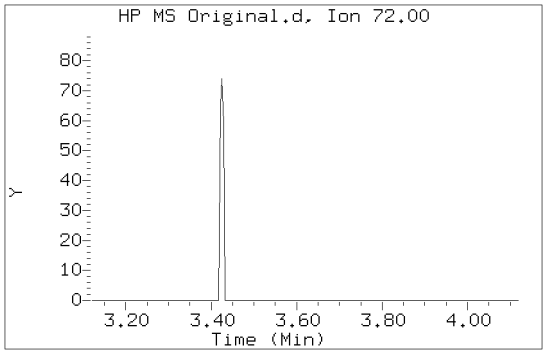
AFTER

MASS
59
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



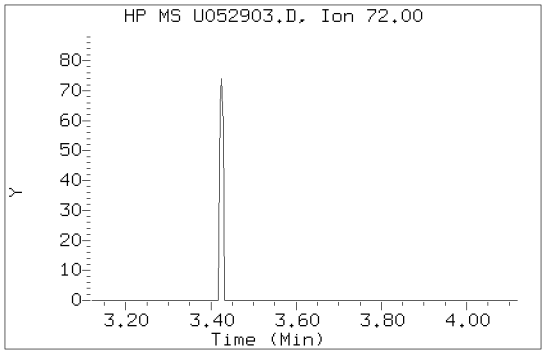
BEFORE

MASS
72
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



AFTER

MASS
72
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid

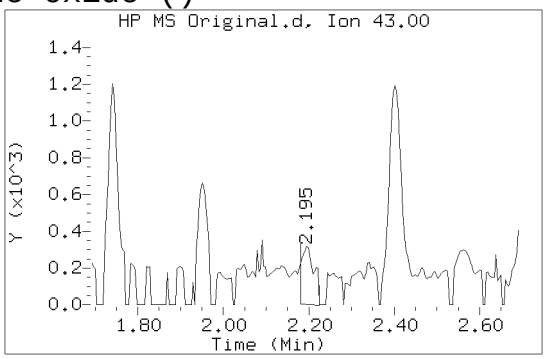


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Inj Date : 29-MAY-2024 11:00
InstruID : VOA9.i
LabSampID : VSTD00.5

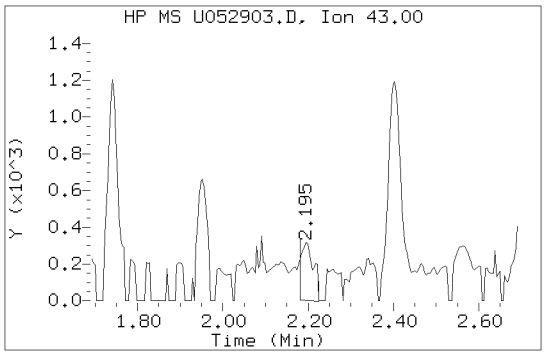
Propylene oxide ()

Reason Code:

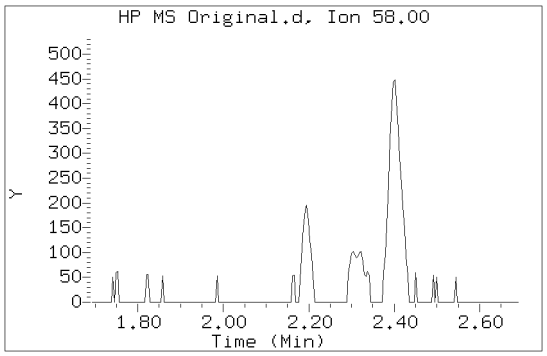
BEFORE
MASS
43
AREA
651
HEIGHT
315
06-Jun-2024
17:10
s
zaid



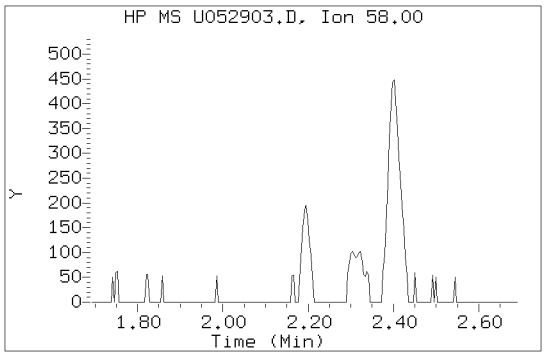
AFTER
MASS
43
AREA
651
HEIGHT
315
06-Jun-2024
17:10
s
zaid



BEFORE
MASS
58
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



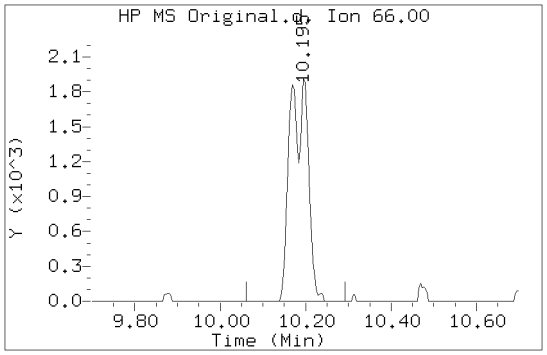
AFTER
MASS
58
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



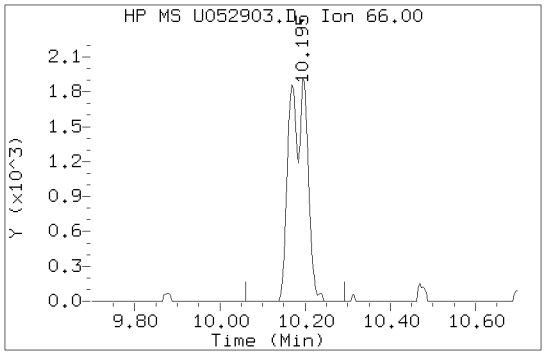
Dicyclopentadiene (77-73-6)

Reason Code:

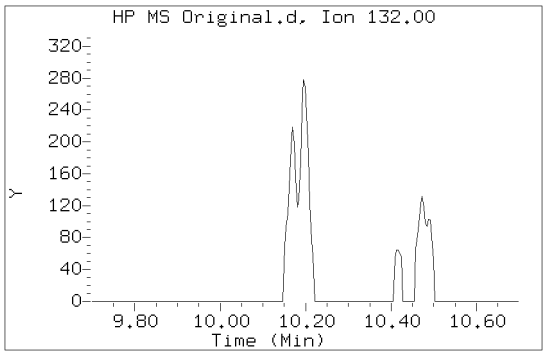
BEFORE
MASS
66
AREA
5765
HEIGHT
1911
06-Jun-2024
17:10
s
zaid



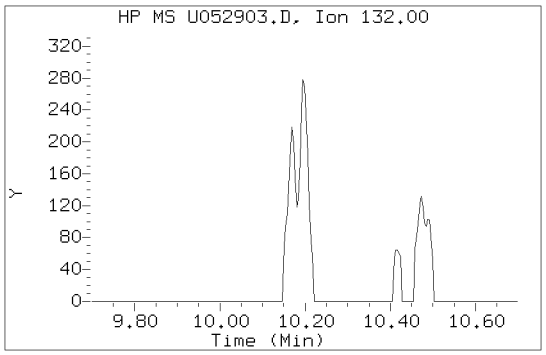
AFTER
MASS
66
AREA
5765
HEIGHT
1911
06-Jun-2024
17:10
s
zaid



BEFORE
MASS
132
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



AFTER
MASS
132
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid

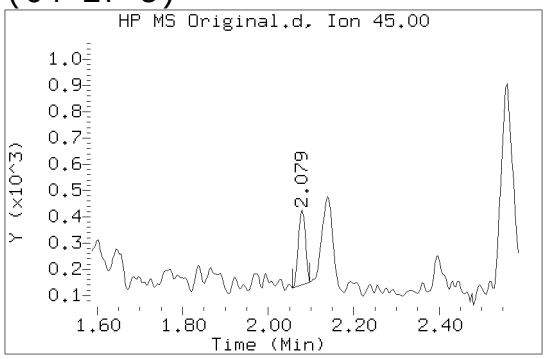


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Inj Date : 29-MAY-2024 11:00
InstruID : VOA9.i
LabSampID : VSTD00.5

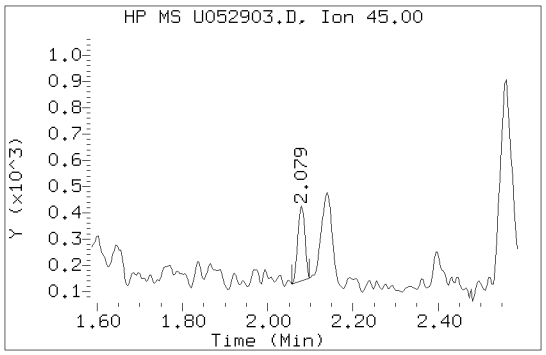
Ethanol (64-17-5)

Reason Code:

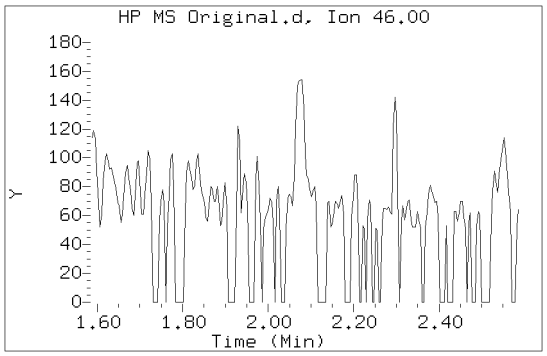
BEFORE
MASS
45
AREA
339
HEIGHT
286
06-Jun-2024
17:10
s
zaid



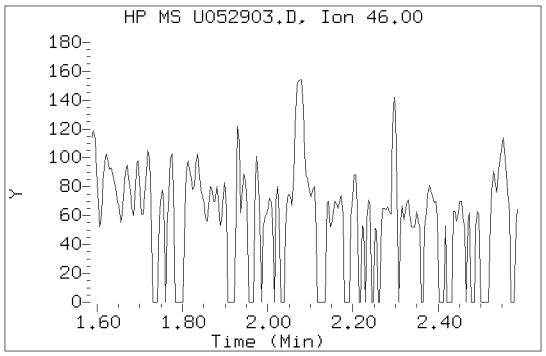
AFTER
MASS
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AREA
339
HEIGHT
286
06-Jun-2024
17:10
s
zaid



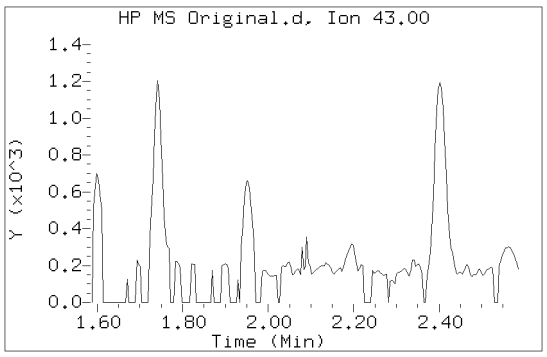
BEFORE
MASS
46
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



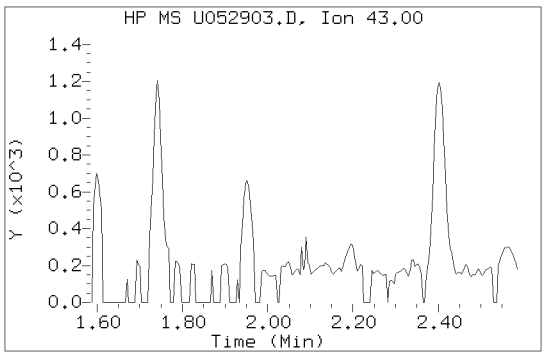
AFTER
MASS
46
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



BEFORE
MASS
43
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



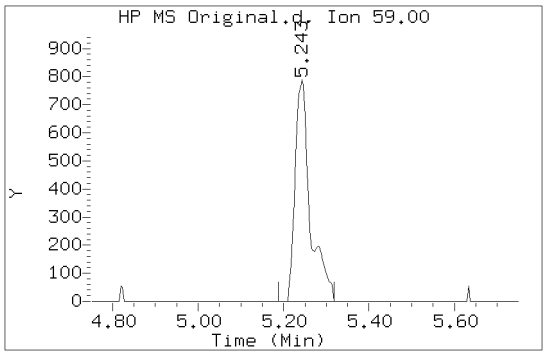
AFTER
MASS
43
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



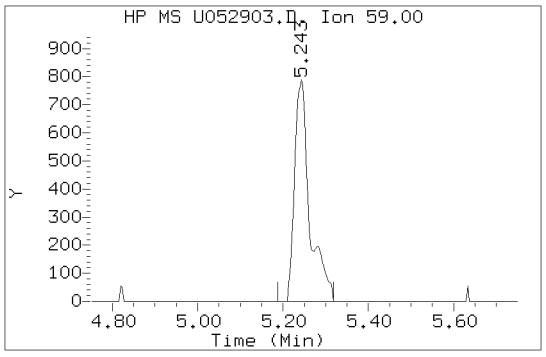
tert-Butyl formate (762-75-4)

Reason Code:

BEFORE
MASS
59
AREA
1972
HEIGHT
789
06-Jun-2024
17:10
s
zaid



AFTER
MASS
59
AREA
1972
HEIGHT
789
06-Jun-2024
17:10
s
zaid



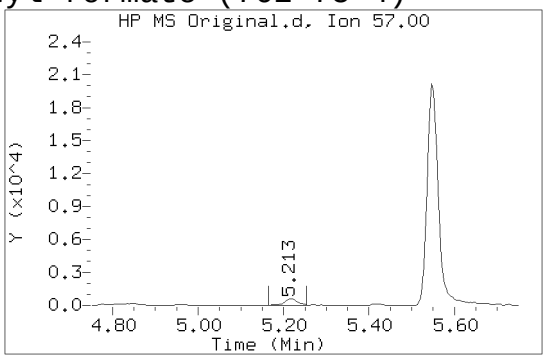
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052903.D
Inj Date : 29-MAY-2024 11:00
InstruID : VOA9.i
LabSampID : VSTD00.5

tert-Butyl formate (762-75-4)

Reason Code:

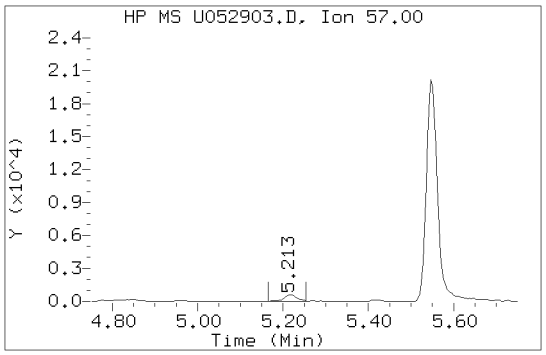
BEFORE

MASS
57
AREA
1288
HEIGHT
583
06-Jun-2024
17:10
s
zaid



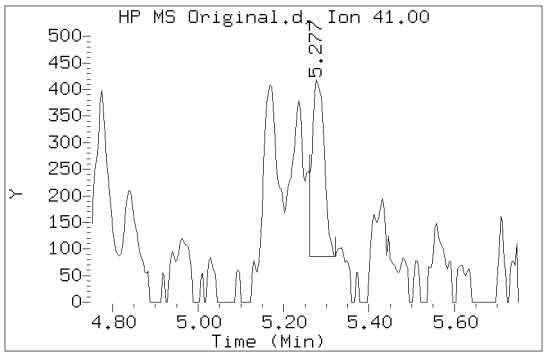
AFTER

MASS
57
AREA
1288
HEIGHT
583
06-Jun-2024
17:10
s
zaid



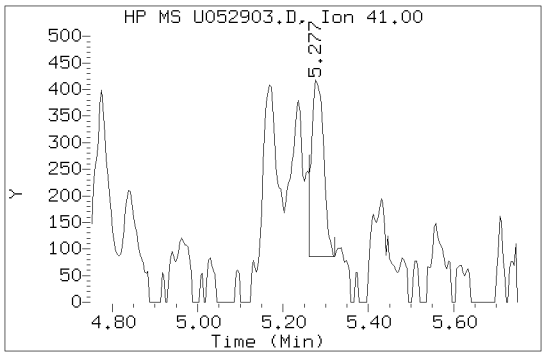
BEFORE

MASS
41
AREA
656
HEIGHT
332
06-Jun-2024
17:10
s
zaid



AFTER

MASS
41
AREA
656
HEIGHT
332
06-Jun-2024
17:10
s
zaid

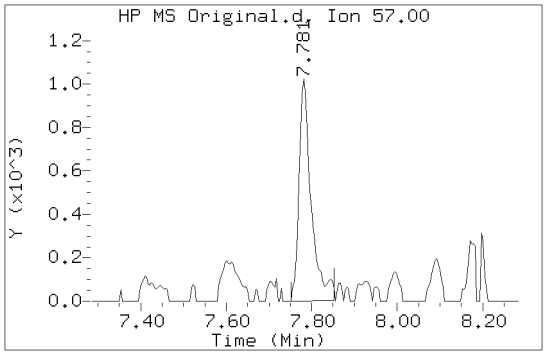


3,3-Dimethyl-1-butanol (624-95-3)

Reason Code:

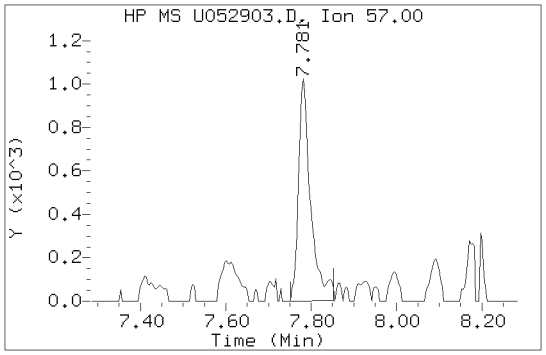
BEFORE

MASS
57
AREA
2051
HEIGHT
1022
06-Jun-2024
17:10
s
zaid



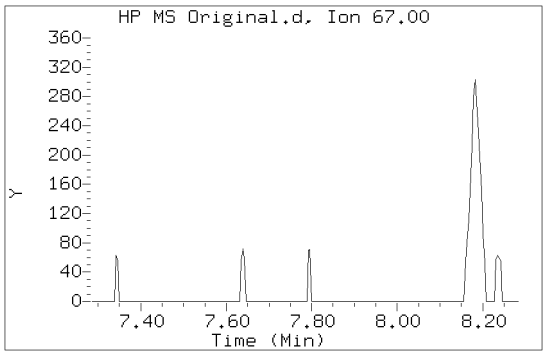
AFTER

MASS
57
AREA
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HEIGHT
1022
06-Jun-2024
17:10
s
zaid



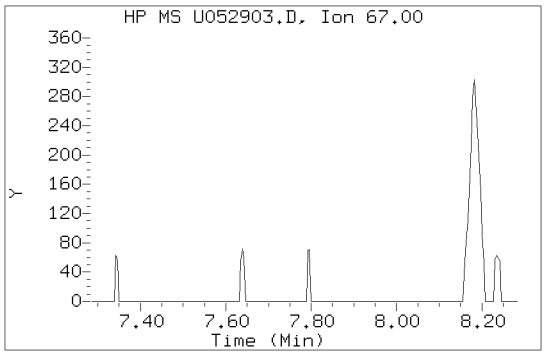
BEFORE

MASS
67
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0
HEIGHT
0
06-Jun-2024
17:10
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zaid



AFTER

MASS
67
AREA
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HEIGHT
0
06-Jun-2024
17:10
s
zaid



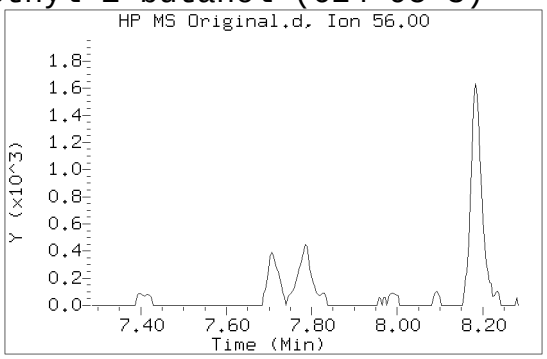
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Inj Date : 29-MAY-2024 11:00
InstruID : VOA9.i
LabSampID : VSTD00.5

3,3-Dimethyl-1-butanol (624-95-3)

Reason Code:

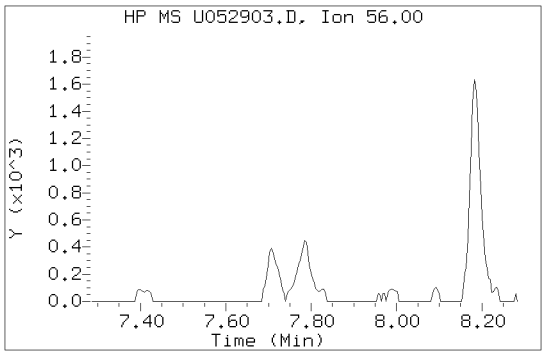
BEFORE

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56
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HEIGHT
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06-Jun-2024
17:10
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zaid



AFTER

MASS
56
AREA
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HEIGHT
0
06-Jun-2024
17:10
s
zaid

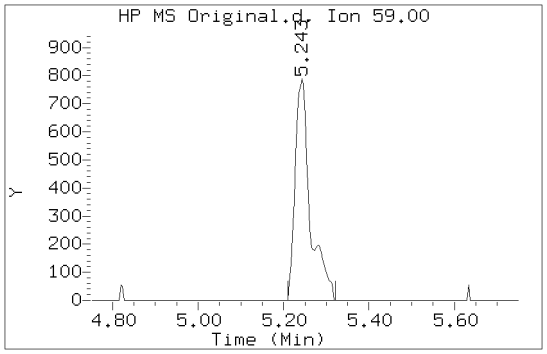


tert-Amyl alcohol (75-85-4)

Reason Code:

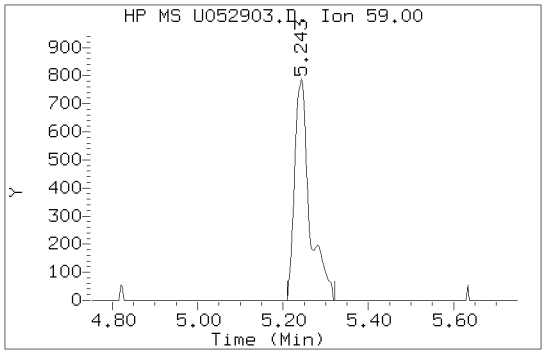
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1972
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789
06-Jun-2024
17:10
s
zaid



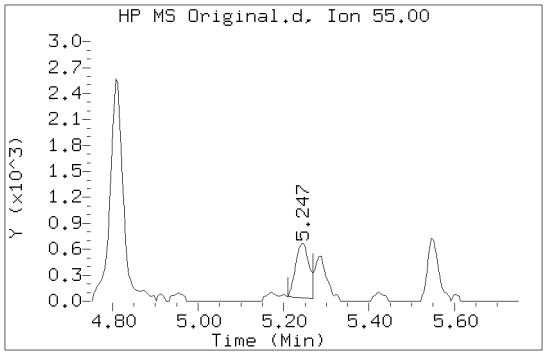
AFTER

MASS
59
AREA
1972
HEIGHT
789
06-Jun-2024
17:10
s
zaid



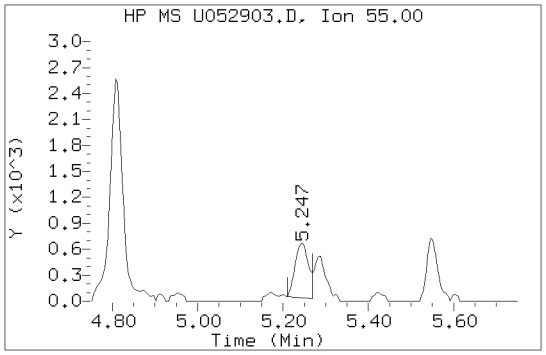
BEFORE

MASS
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AREA
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HEIGHT
633
06-Jun-2024
17:10
s
zaid



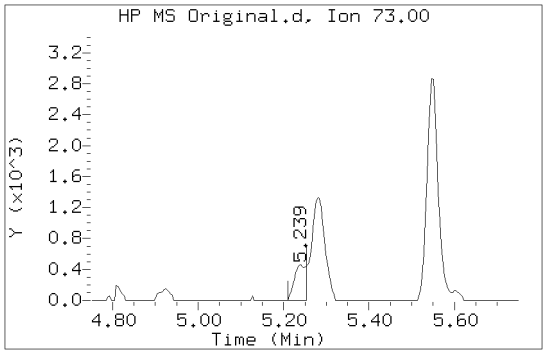
AFTER

MASS
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AREA
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HEIGHT
633
06-Jun-2024
17:10
s
zaid



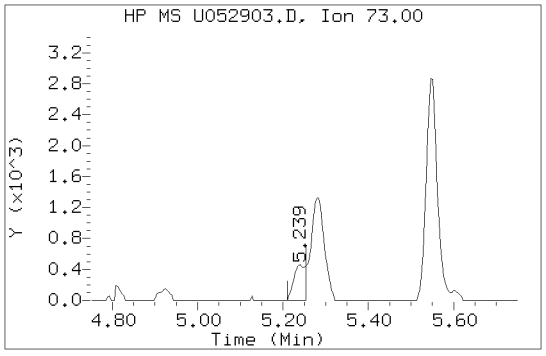
BEFORE

MASS
73
AREA
904
HEIGHT
462
06-Jun-2024
17:10
s
zaid



AFTER

MASS
73
AREA
904
HEIGHT
462
06-Jun-2024
17:10
s
zaid



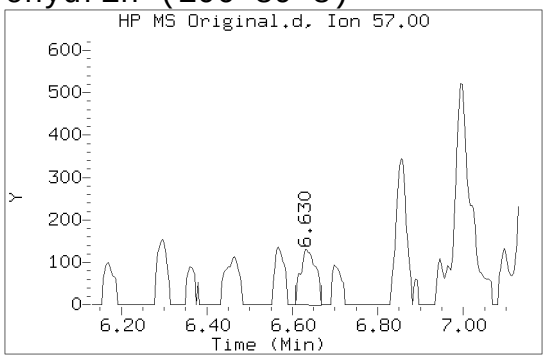
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052903.D
Inj Date : 29-MAY-2024 11:00
InstruID : VOA9.i
LabSampID : VSTD00.5

Epichlorohydrin (106-89-8)

Reason Code:

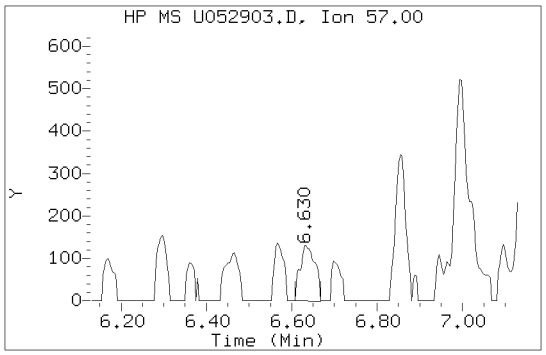
BEFORE

MASS
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AREA
323
HEIGHT
131
06-Jun-2024
17:10
s
zaid



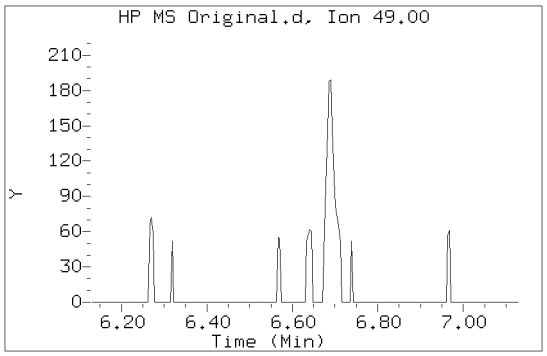
AFTER

MASS
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AREA
323
HEIGHT
131
06-Jun-2024
17:10
s
zaid



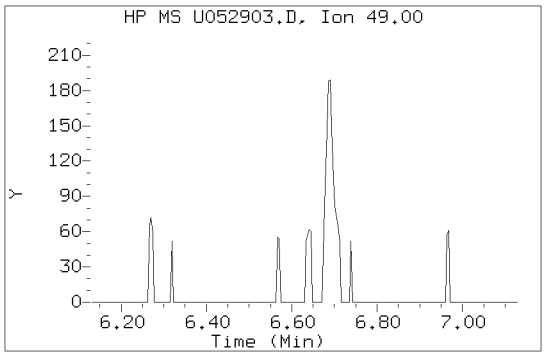
BEFORE

MASS
49
AREA
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HEIGHT
0
06-Jun-2024
17:10
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zaid



AFTER

MASS
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AREA
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HEIGHT
0
06-Jun-2024
17:10
s
zaid

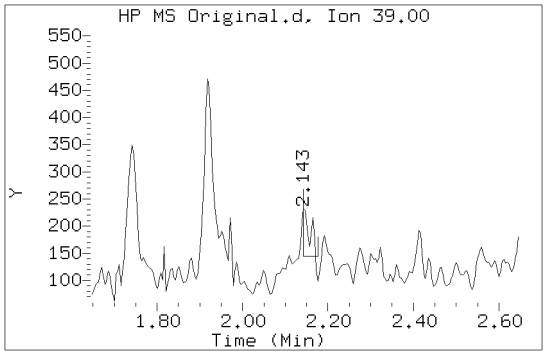


Isoprene (78-79-5)

Reason Code:

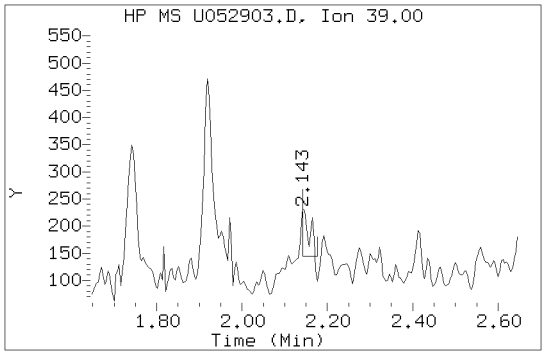
BEFORE

MASS
39
AREA
81
HEIGHT
87
06-Jun-2024
17:10
s
zaid



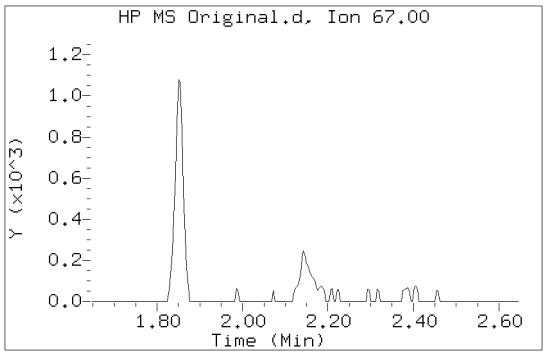
AFTER

MASS
39
AREA
81
HEIGHT
87
06-Jun-2024
17:10
s
zaid



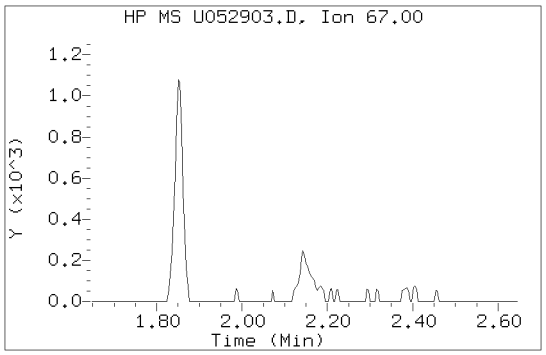
BEFORE

MASS
67
AREA
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HEIGHT
0
06-Jun-2024
17:10
s
zaid



AFTER

MASS
67
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



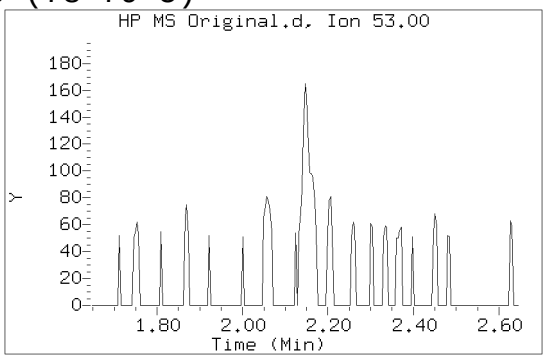
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052903.D
Inj Date : 29-MAY-2024 11:00
InstruID : VOA9.i
LabSampID : VSTD00.5

Isoprene (78-79-5)

Reason Code:

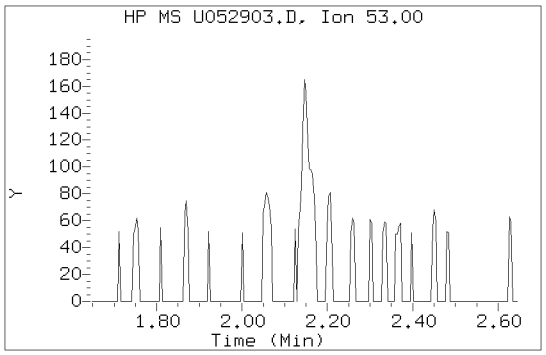
BEFORE

MASS
53
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



AFTER

MASS
53
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid

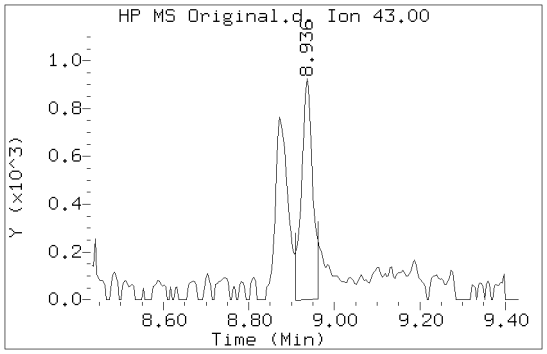


n-Amyl acetate (628-63-7)

Reason Code:

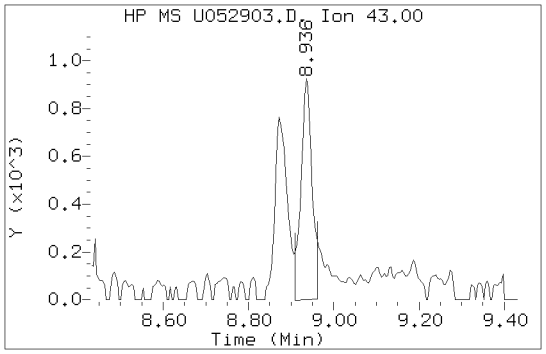
BEFORE

MASS
43
AREA
1727
HEIGHT
923
06-Jun-2024
17:10
s
zaid



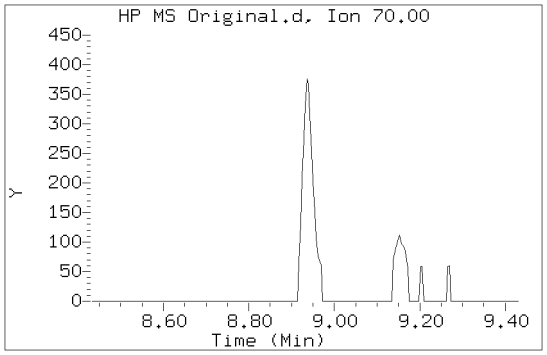
AFTER

MASS
43
AREA
1727
HEIGHT
923
06-Jun-2024
17:10
s
zaid



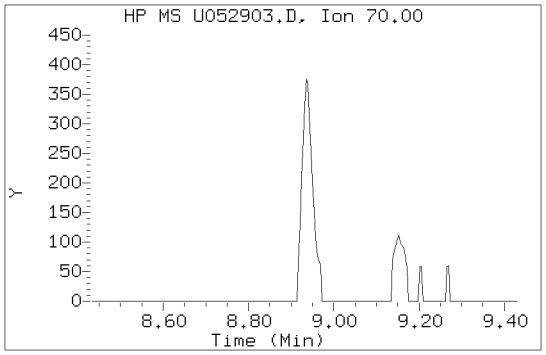
BEFORE

MASS
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AREA
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HEIGHT
0
06-Jun-2024
17:10
s
zaid



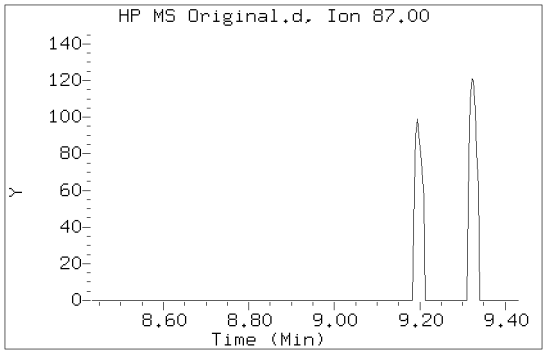
AFTER

MASS
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AREA
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HEIGHT
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06-Jun-2024
17:10
s
zaid



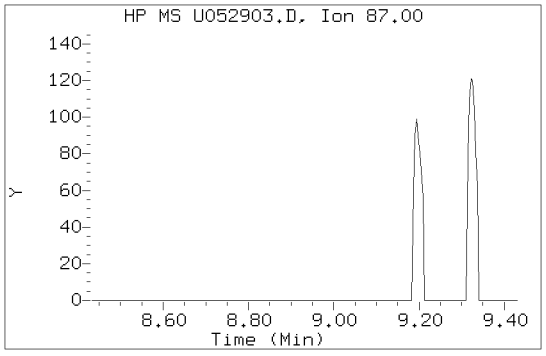
BEFORE

MASS
87
AREA
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HEIGHT
0
06-Jun-2024
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zaid



AFTER

MASS
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AREA
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HEIGHT
0
06-Jun-2024
17:10
s
zaid



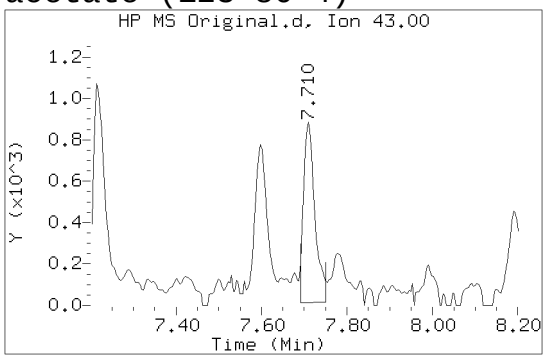
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Inj Date : 29-MAY-2024 11:00
InstruID : VOA9.i
LabSampID : VSTD00.5

n-Butyl acetate (123-86-4)

Reason Code:

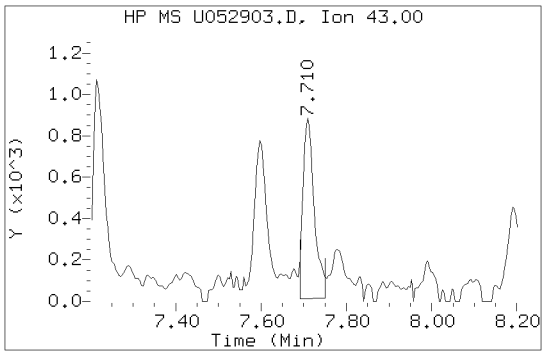
BEFORE

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1670
HEIGHT
874
06-Jun-2024
17:10
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zaid



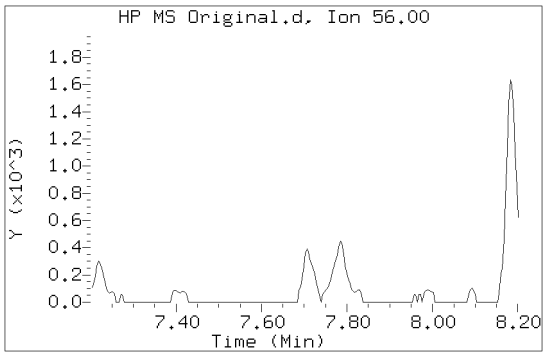
AFTER

MASS
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AREA
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HEIGHT
874
06-Jun-2024
17:10
s
zaid



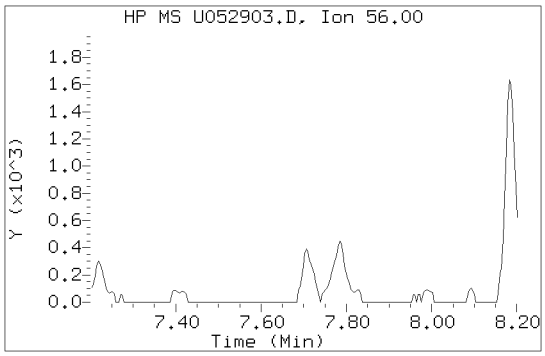
BEFORE

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56
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HEIGHT
0
06-Jun-2024
17:10
s
zaid



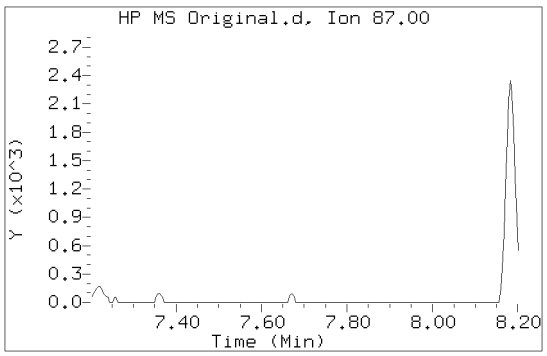
AFTER

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56
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HEIGHT
0
06-Jun-2024
17:10
s
zaid



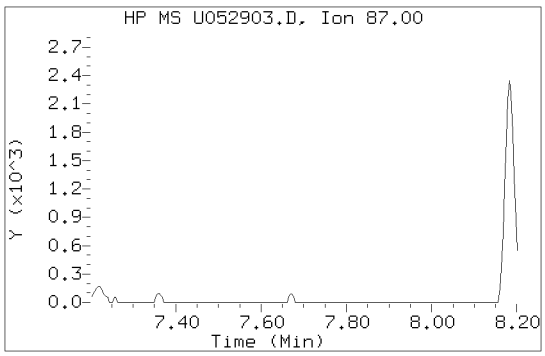
BEFORE

MASS
87
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0
HEIGHT
0
06-Jun-2024
17:10
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zaid



AFTER

MASS
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AREA
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HEIGHT
0
06-Jun-2024
17:10
s
zaid

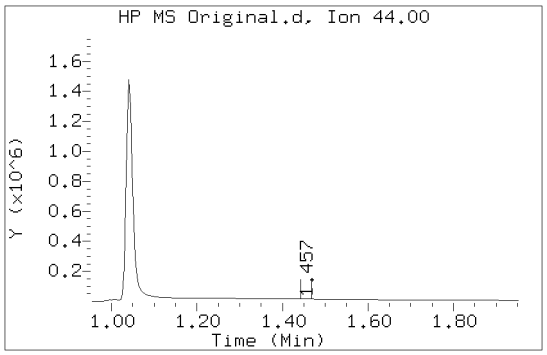


Acetaldehyde (75-07-0)

Reason Code:

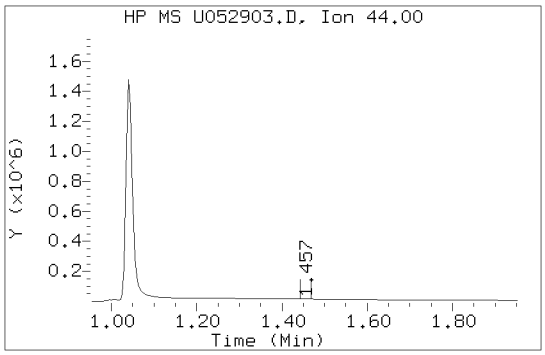
BEFORE

MASS
44
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HEIGHT
1641
06-Jun-2024
17:10
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zaid



AFTER

MASS
44
AREA
1640
HEIGHT
1641
06-Jun-2024
17:10
s
zaid

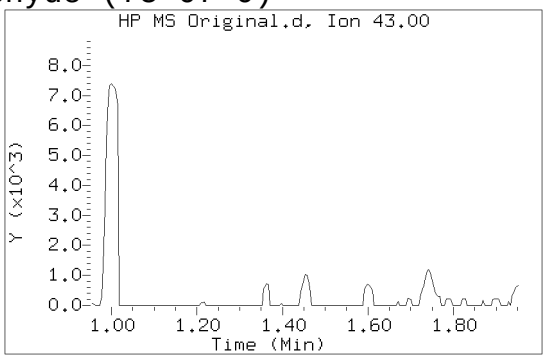


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Inj Date : 29-MAY-2024 11:00
InstruID : VOA9.i
LabSampID : VSTD00.5

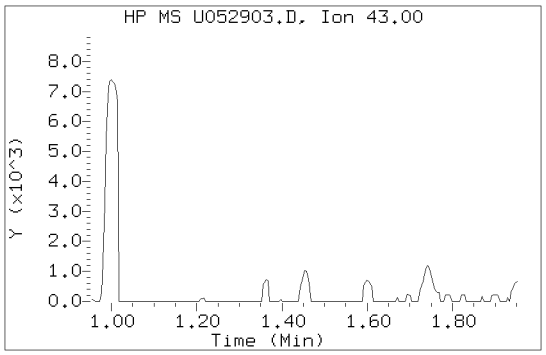
Acetaldehyde (75-07-0)

Reason Code:

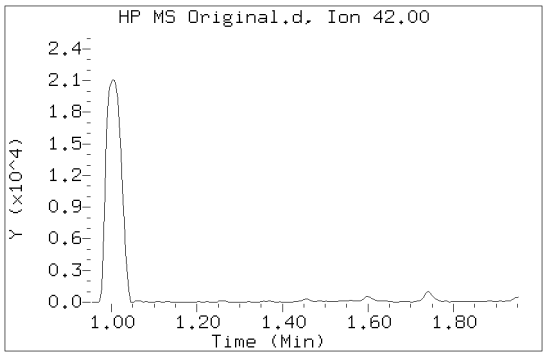
BEFORE
MASS
43
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



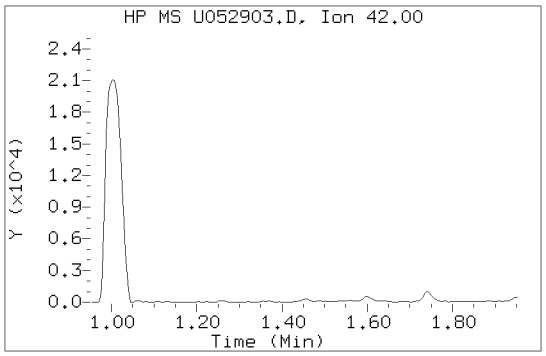
AFTER
MASS
43
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



BEFORE
MASS
42
AREA
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HEIGHT
0
06-Jun-2024
17:10
s
zaid



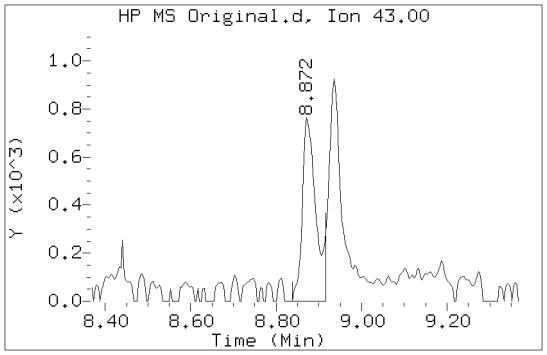
AFTER
MASS
42
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



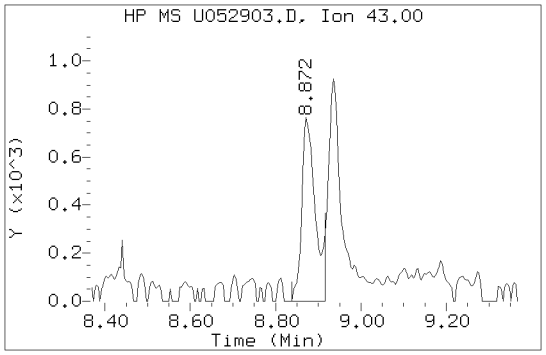
Methyl Amyl Ketone (110-43-0)

Reason Code:

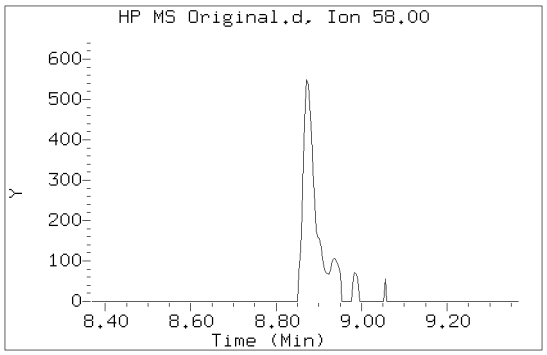
BEFORE
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43
AREA
1718
HEIGHT
764
06-Jun-2024
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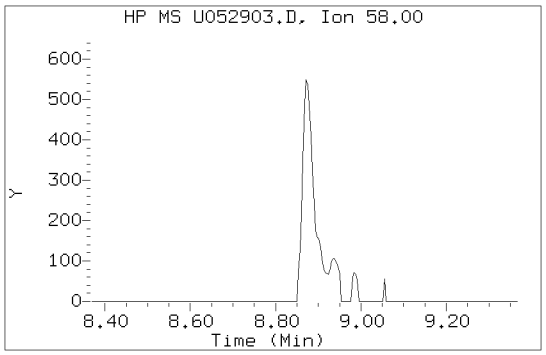
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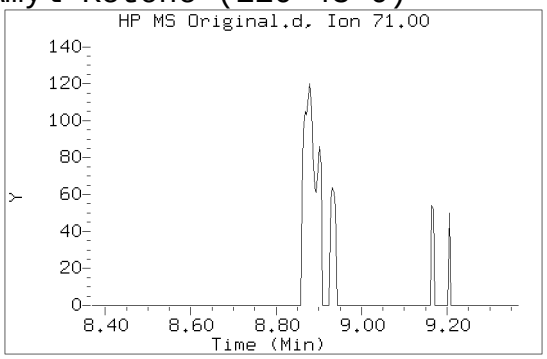
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LabSampID : VSTD00.5

Methyl Amyl Ketone (110-43-0)

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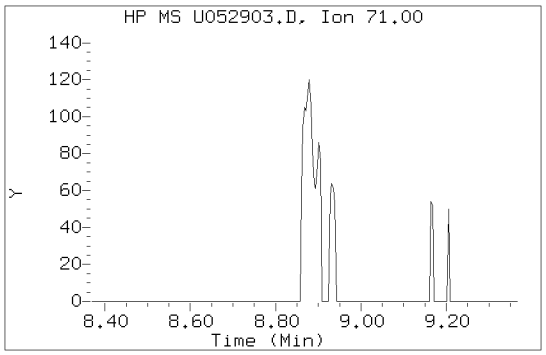
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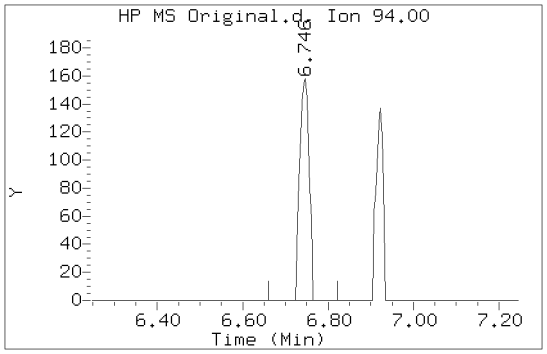


Dimethyl Disulfide (624-92-0)

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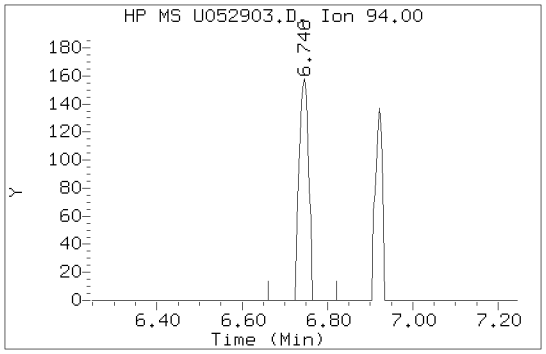
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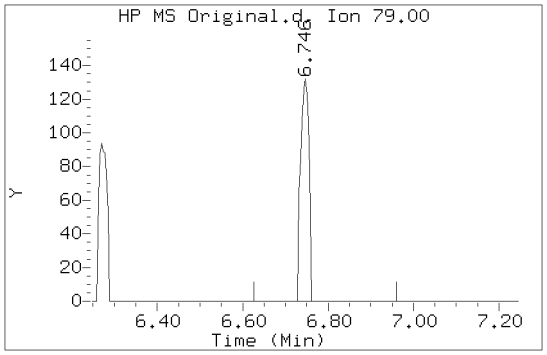
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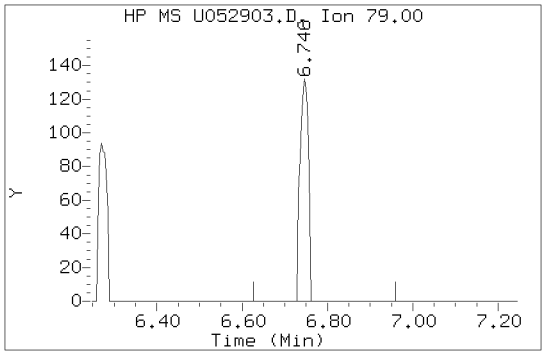
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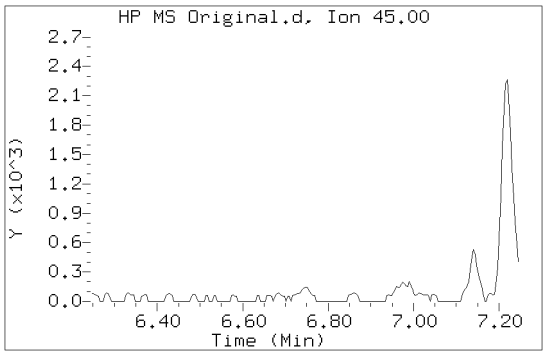
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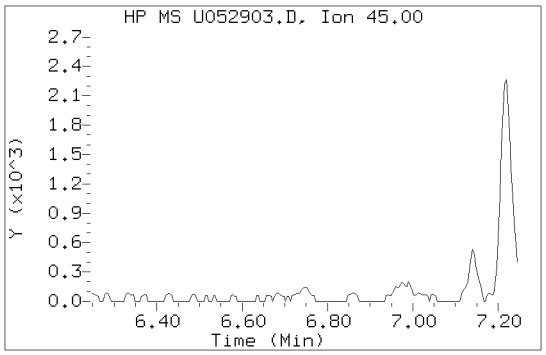
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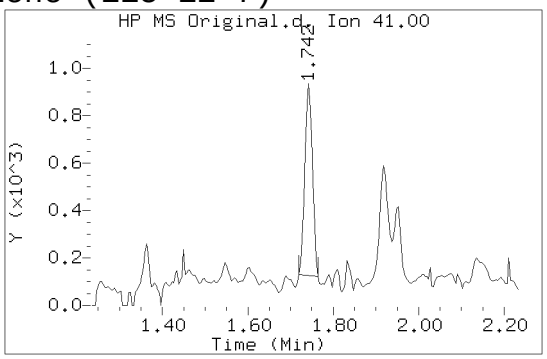


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LabSampID : VSTD00.5

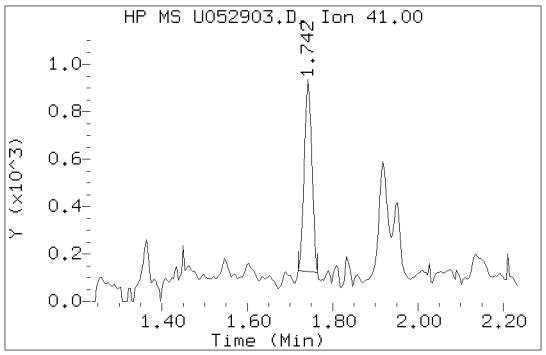
Isobutylene (115-11-7)

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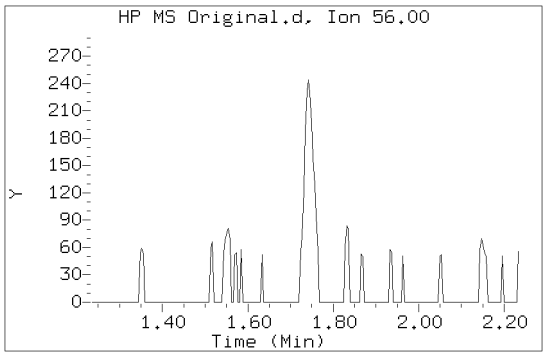
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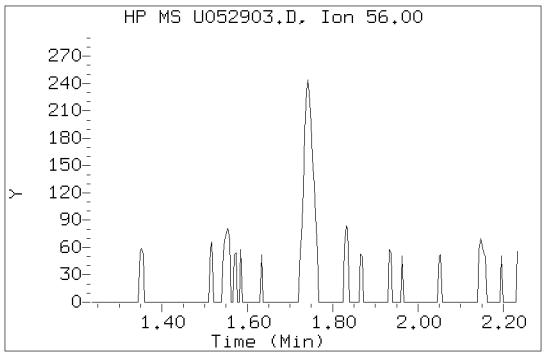
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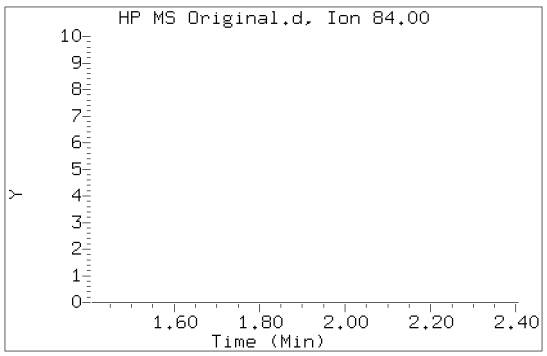
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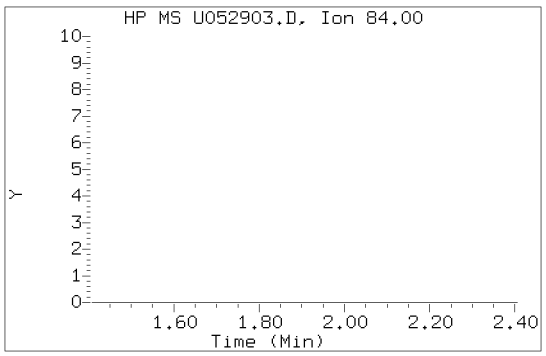
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BEFORE
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AFTER
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Data File: \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052904.D Page 1
Report Date: 07-Jun-2024 10:54

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052904.D
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Inj Date : 29-MAY-2024 11:22
Operator : FT Inst ID: VOA9.i
Smp Info : VSTD001;VSTD001;1;3
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240529.b\8260C.m
Meth Date : 07-Jun-2024 10:14 r.patel Quant Type: ISTD
Cal Date : 29-MAY-2024 11:22 Cal File: U052904.D
Als bottle: 4 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14

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	4.815	4.811	(1.000)	286775	50.0000	
2	Dichlorodifluoromethane	85	1.167	1.156	(0.243)	857	1.00000	0.80(M)
3	Chloromethane	50	1.302	1.288	(0.271)	8687	1.00000	1.57
4	Propionitrile	54	4.346	4.339	(0.903)	4715	10.0000	8.30(a)
5	Vinyl Chloride	62	1.381	1.366	(0.287)	2181	1.00000	1.00(M)
6	Bromomethane	94	1.621	1.595	(0.337)	2361	1.00000	0.56
7	Chloroethane	64	1.703	1.681	(0.354)	2279	1.00000	1.23(M)
8	Trichlorofluoromethane	101	1.898	1.884	(0.394)	2194	1.00000	0.85
9	Acrolein	56	2.266	2.259	(0.471)	625	2.00000	3.24(aM)
10	Acetone	43	2.416	2.405	(0.502)	4580	2.00000	3.55
11	1,1-Dichloroethene	96	2.333	2.322	(0.485)	1965	1.00000	1.03
12	Isobutyl Alcohol	43	5.287	5.284	(1.098)	8488	20.0000	11.97(a)
13	Acetonitrile	39	2.674	2.663	(0.555)	2763	10.0000	11.87(a)
14	Allyl Chloride	41	2.674	2.667	(0.555)	8034	1.00000	1.23(a)
15	Iodomethane	142	2.472	2.457	(0.513)	1102	2.00000	2.80(T)
16	Acrylonitrile	53	3.068	3.061	(0.637)	2714	2.00000	2.30
17	Methylene Chloride	84	2.794	2.783	(0.580)	4998	1.00000	0.97
18	Methyl tert-butyl ether	73	3.083	3.076	(0.640)	7839	1.00000	1.00
19	Carbon Disulfide	76	2.524	2.510	(0.524)	10875	2.00000	2.05
20	trans-1,2-Dichloroethene	96	3.060	3.050	(0.636)	2346	1.00000	1.09
21	Vinyl Acetate	43	4.346	4.339	(0.903)	3220	2.00000	2.54(M)

22 1,1-Dichloroethane	63	3.518	3.507 (0.731)	5374	1.00000	1.30
23 Chloroprene	53	3.615	3.601 (0.751)	2818	1.00000	0.93(a)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
24	2-Butanone	43	4.275	4.260	(0.888)	3365	2.00000	2.62
25	Methacrylonitrile	41	4.504	4.489	(0.935)	1920	1.00000	1.26(a)
26	2,2-Dichloropropane	77	4.181	4.174	(0.868)	2514	1.00000	0.93
27	cis-1,2-Dichloroethene	96	4.200	4.189	(0.872)	3136	1.00000	1.18
28	Chloroform	83	4.575	4.568	(0.950)	4858	1.00000	1.18
29	Bromochloromethane	128	4.474	4.463	(0.929)	1768	1.00000	1.72
$ 30	Dibromofluoromethane	113	4.751	4.744	(0.987)	2993	1.00000	1.15
31	1,1,1-Trichloroethane	97	4.744	4.736	(0.985)	2288	1.00000	0.79
32	1,1-Dichloropropene	75	4.924	4.916	(0.887)	2974	1.00000	0.96
33	1,2-Dichloroethane	62	5.178	5.171	(0.933)	4481	1.00000	2.00(M)
34	Carbon Tetrachloride	117	4.909	4.905	(0.884)	2008	1.00000	0.83(M)
$ 35	1,2-Dichloroethane-d4	65	5.100	5.093	(1.059)	4136	1.00000	2.29
* 36	1,4-Difluorobenzene	114	5.553	5.550	(1.000)	423873	50.0000	
37	Benzene	78	5.141	5.134	(0.926)	11456	1.00000	1.14
38	Trichloroethene	130	5.789	5.786	(1.043)	2675	1.00000	1.08(a)
39	Bromodichloromethane	83	6.281	6.277	(1.131)	2854	1.00000	1.06(aM)
40	Methyl Methacrylate	41	5.838	5.827	(1.213)	1060	1.00000	1.40(a)
41	2-Chloroethylvinyl ether	63	6.580	6.573	(1.185)	1330	2.00000	4.79(M)
42	1,2-Dichloropropane	63	6.011	6.007	(1.082)	3051	1.00000	1.15(aM)
43	2-Nitropropane	43	6.509	6.506	(1.352)	456	1.00000	2.71(aM)
44	Dibromomethane	93	6.119	6.116	(1.102)	1936	1.00000	1.26(a)
45	4-Methyl-2-Pentanone	43	6.854	6.851	(0.837)	6605	2.00000	3.07(a)
46	cis-1,3-Dichloropropene	75	6.693	6.690	(1.205)	3129	1.00000	1.72(a)
* 47	Chlorobenzene-d5	117	8.185	8.185	(1.000)	373701	50.0000	
$ 48	Toluene-d8	98	6.922	6.918	(0.846)	12775	1.00000	1.99(a)
49	Ethyl Methacrylate	69	7.293	7.289	(1.313)	3966	1.00000	1.20(a)
50	Toluene	91	6.982	6.978	(0.853)	12093	1.00000	1.19(a)
51	trans-1,3-Dichloropropene	75	7.199	7.196	(1.296)	2284	1.00000	1.91(a)
52	2-Hexanone	43	7.596	7.589	(0.928)	4192	2.00000	4.26(aM)
53	1,1,2-Trichloroethane	83	7.356	7.353	(0.899)	2548	1.00000	1.07(a)
54	1,3-Dichloropropane	76	7.499	7.499	(0.916)	5120	1.00000	1.23(a)
55	Dibromochloromethane	129	7.694	7.690	(0.940)	1952	1.00000	1.80(a)
56	Tetrachloroethene	164	7.454	7.454	(0.911)	1502	1.00000	0.84(a)
57	1,2-Dibromoethane	107	7.784	7.784	(0.951)	2599	1.00000	1.16(a)
58	1-Chlorohexane	55	8.185	8.196	(1.474)	4740	1.00000	1.73(a)
59	Chlorobenzene	112	8.207	8.208	(1.003)	7640	1.00000	1.18(a)
60	1,1,1,2-Tetrachloroethane	131	8.282	8.283	(1.012)	2072	1.00000	1.00(a)
61	Ethylbenzene	106	8.305	8.305	(1.015)	3630	1.00000	1.20(a)
62	m,p-Xylenes	106	8.410	8.406	(1.027)	13484	2.00000	2.61(a)
63	o-Xylene	106	8.747	8.744	(1.069)	5882	1.00000	2.30(a)
64	Styrene	104	8.762	8.759	(1.071)	6373	1.00000	1.03(a)
66	Bromoform	173	8.920	8.916	(1.090)	1114	1.00000	2.30(aM)
67	Isopropylbenzene	105	9.062	9.059	(1.107)	7651	1.00000	0.85(a)
68	1,1,2,2-Tetrachloroethane	83	9.328	9.329	(0.917)	4229	1.00000	1.27(aM)
$ 69	4-Bromofluorobenzene	95	9.193	9.190	(1.123)	5245	1.00000	1.92(a)
* 70	1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	199766	50.0000	
71	1,2,3-Trichloropropane	75	9.362	9.362	(0.921)	3399	1.00000	1.09(aM)
72	trans-1,4-Dichloro-2-butene	53	9.377	9.377	(1.146)	706	1.00000	1.10(a)
73	n-Propylbenzene	91	9.411	9.411	(0.926)	9939	1.00000	0.92(a)
74	Bromobenzene	156	9.317	9.317	(0.916)	3136	1.00000	1.14(a)
75	1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	10157	1.00000	1.11(a)
76	2-Chlorotoluene	91	9.482	9.482	(0.933)	8525	1.00000	0.85(a)

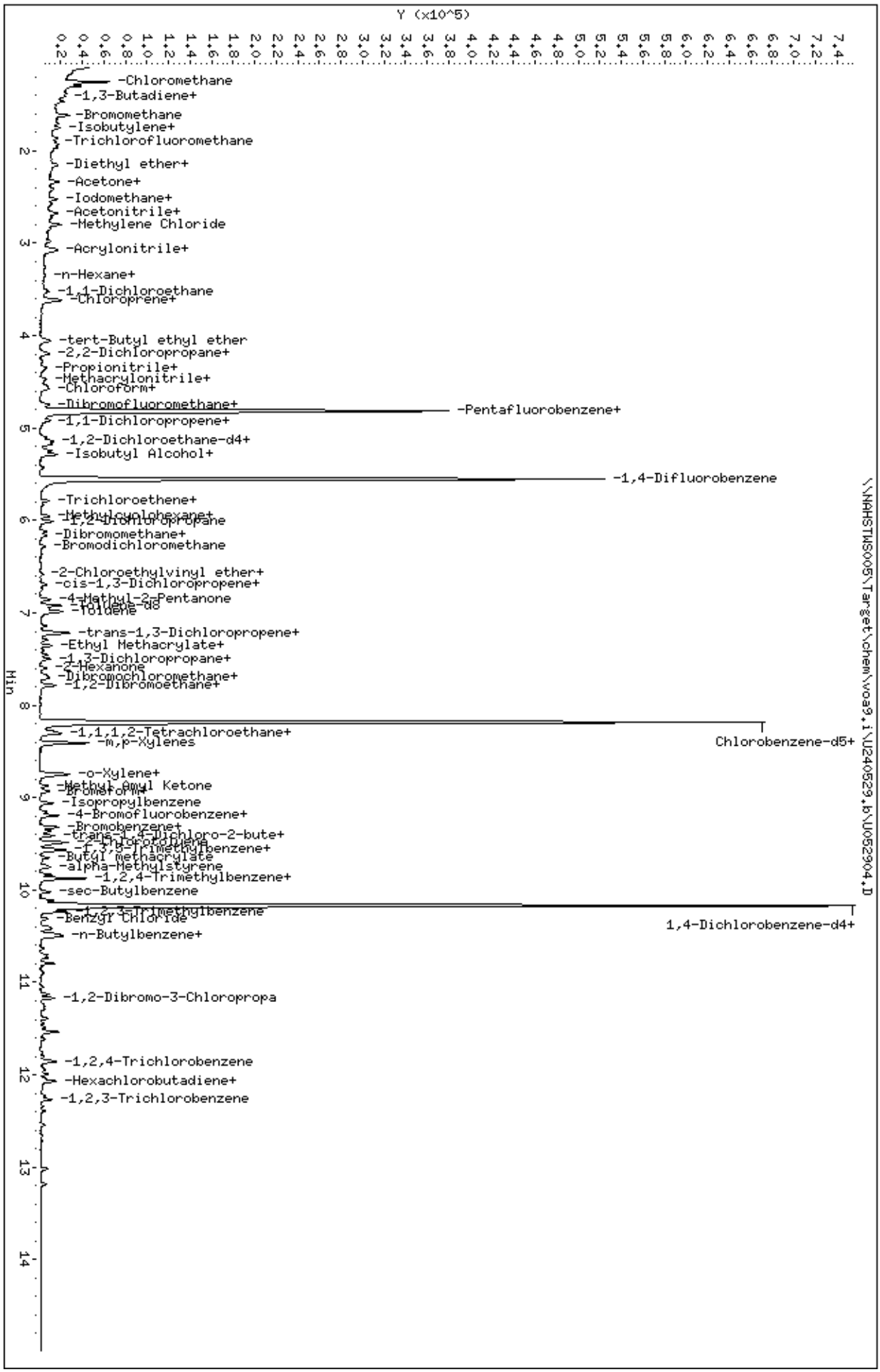
77 4-Chlorotoluene	91	9.576	9.576 (0.942)	7866	1.00000	1.01(a)
78 tert-Butylbenzene	119	9.834	9.835 (0.967)	4628	1.00000	0.76(aM)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
79	1,2,4-Trimethylbenzene	105	9.876	9.876	(0.971)	22742	1.00000	1.28(a)
81	sec-Butylbenzene	105	10.022	10.022	(0.986)	6120	1.00000	0.74(a)
82	p-Isopropyltoluene	119	10.145	10.146	(0.998)	5427	1.00000	0.75(a)
83	1,3-Dichlorobenzene	146	10.115	10.116	(0.995)	4916	1.00000	1.05(aM)
84	1,4-Dichlorobenzene	146	10.190	10.191	(1.002)	5838	1.00000	1.13(a)
86	Benzyl Chloride	91	10.310	10.311	(1.260)	4616	1.00000	2.71(a)
87	n-Butylbenzene	91	10.490	10.491	(1.032)	7427	1.00000	1.40(a)
88	1,2-Dichlorobenzene	146	10.505	10.502	(1.033)	5651	1.00000	1.17(aM)
89	1,2-Dibromo-3-Chloropropane	155	11.165	11.165	(1.098)	485	1.00000	2.01(aM)
90	1,2,4-Trichlorobenzene	180	11.859	11.855	(1.166)	2991	1.00000	0.98(a)
91	Hexachlorobutadiene	225	11.997	11.998	(1.180)	1041	1.00000	0.85(a)
92	Naphthalene	128	12.069	12.065	(1.187)	11206	1.00000	1.37(a)
93	1,2,3-Trichlorobenzene	180	12.267	12.268	(1.206)	2793	1.00000	0.99(a)
146	Methyl acetate	43	2.719	2.708	(0.565)	3707	1.00000	1.88(a)
138	Freon TF	101	2.337	2.326	(0.485)	1010	1.00000	1.06(a)
141	Cyclohexane	56	4.815	4.778	(1.000)	6773	1.00000	1.32(a)
147	Methylcyclohexane	55	5.951	5.944	(1.072)	5794	1.00000	1.70(a)
135	1,4-Dioxane	88	6.172	6.168	(1.282)	1066	20.0000	20.80
132	n-Butanol	56	5.834	5.827	(1.212)	1735	20.0000	22.45(a)
136	n-Hexane	57	3.342	3.331	(0.694)	1300	1.00000	1.30(a)
139	Diethyl ether	59	2.150	2.139	(0.446)	2295	1.00000	0.92(a)
148	Tert-butyl alcohol	59	2.978	2.975	(0.619)	6404	20.0000	13.18
149	Isopropyl alcohol	45	2.573	2.570	(0.534)	4800	20.0000	16.06
152	Amyl alcohol	42	7.405	7.398	(0.905)	1733	20.0000	40.16
156	Diisopropyl ether	45	3.626	3.619	(0.753)	9215	1.00000	1.25(Ta)
162	Butyl acrylate	55	8.736	8.733	(1.067)	4624	1.00000	2.01(a)
187	n-Amyl acetate	43	8.935	8.931	(1.092)	4502	1.00000	1.10(aM)
164	Dicyclopentadiene	66	10.198	10.198	(1.003)	12080	1.00000	1.17(a)
166	1,2,3-Trimethylbenzene	105	10.232	10.232	(1.006)	11411	1.00000	2.35(a)
167	Ethanol	45	2.086	2.086	(0.433)	850	20.0000	10.85
172	tert-Butyl formate	59	5.246	5.250	(1.090)	5549	2.00000	2.44(a)
173	3,3-Dimethyl-1-butanol	57	7.784	7.784	(0.951)	6038	20.0000	23.21(M)
174	tert-Amyl methyl ether	73	5.287	5.284	(1.098)	8204	1.00000	1.22(a)
175	tert-Butyl ethyl ether	59	4.054	4.047	(0.842)	8532	1.00000	1.30(a)
176	tert-Amyl alcohol	59	5.246	5.250	(1.090)	5549	20.0000	24.21
151	4-Methyl-2-pentanol	45	7.218	7.222	(1.300)	14569	20.0000	34.00
140	1,3-Butadiene	54	1.407	1.396	(0.292)	1054	1.00000	0.99(a)
182	Epichlorohydrin	57	6.633	6.630	(1.194)	718	4.00000	6.35(M)
M 94	1,2-Dichloroethylene (total)	96				5482	2.00000	(a)
130	Ethyl Acetate	43	4.346	4.339	(0.903)	3313	1.00000	1.25(aM)
131	Methyl Acrylate	55	4.384	4.365	(0.910)	3957	1.00000	1.32(aM)
189	n-Butyl acetate	43	7.705	7.702	(0.941)	4706	1.00000	1.19(aM)
134	Cyclohexanone	55	9.152	9.152	(0.900)	2910	20.0000	36.22(a)
185	Isoprene	39	2.165	2.146	(0.450)	375	1.00000	1.48(aM)
188	Isopropyl acetate	43	5.287	5.284	(0.952)	8488	1.00000	1.20(a)
150	Allyl alcohol	57	3.342	3.331	(0.694)	1300	20.0000	26.16
194	Acetaldehyde	44	1.467	1.453	(0.305)	3248	4.00000	6.37(M)
195	Methyl Amyl Ketone	43	8.871	8.868	(1.084)	5091	1.00000	1.11(a)
200	Dimethyl Disulfide	94	6.745	6.746	(0.824)	895	1.00000	5.44(M)
202	Isobutylene	41	1.752	1.734	(0.364)	1518	1.00000	1.06(aM)
133	Ethyl Acrylate	55	5.951	5.944	(1.236)	5916	1.00000	1.66(aM)
163	Butyl methacrylate	41	9.651	9.647	(0.949)	2085	1.00000	0.90(aM)

159 Propylene oxide	43	2.206	2.191 (0.458)	1105	2.00000	5.74
203 2-Ethylhexyl Acrylate	55	12.042	12.039 (1.184)	2167	1.00000	2.24(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.


Y (x10^5)
Min
-Chloromethane
-1,3-Butadiene+
-Bromomethane
-Isobutylene+
-Trichlorofluoromethane
-Diethyl ether+
-Acetone+
-Iodomethane+
-Acetonitrile+
-Methylene Chloride
-Acrylonitrile+
-n-Hexane+
-1,1-Dichloroethane
-Chloroprene+
-tert-Butyl ethyl ether
-2,2-Dichloropropane+
-Propionitrile+
-Methacrylonitrile+
-Chloroform+
-Dibromofluoromethane+
-Pentafluorobenzene+
-1,1-Dichloropropene+
-1,2-Dichloroethane-d4+
-Isobutyl Alcohol+
-1,4-Difluorobenzene
-Trichloroethene+
-Methylcyclohexane+
-1,2-Dichloropropane
-Dibromomethane+
-Bromodichloromethane
-2-Chloroethylvinyl ether+
-cis-1,3-Dichloropropene+
-4-Methyl-2-Pentanone
-Toluene-d8
-Toluene
-trans-1,3-Dichloropropene+
-Ethyl Methacrylate+
-1,3-Dichloropropane+
-2-Hexanone
-Dibromochloromethane+
-1,2-Dibromoethane+
-1,1,1,2-Tetrachloroethane+
Chlorobenzene-d5+
-m,p-Xylenes
-o-Xylene+
-Methyl Amyl Ketone
-Bromoform+
-Isopropylbenzene
-4-Bromofluorobenzene+
-Bromobenzene+
-trans-1,4-Dichloro-2-bute+
-2-Chlorotoluene
-1,3,5-Trimethylbenzene+
-Butyl methacrylate
-alpha-Methylstyrene
-1,2,4-Trimethylbenzene+
-sec-Butylbenzene
-1,2,3-Trimethylbenzene
-Benzyl Chloride
1,4-Dichlorobenzene-d4+
-n-Butylbenzene+
-1,2-Dibromo-3-Chloropropa
-1,2,4-Trichlorobenzene
-Hexachlorobutadiene+
-1,2,3-Trichlorobenzene
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Data File: \\NAHSTWS005\Target\chem\voa9,i\U240529,b\U052904.D
Date : 29-MAY-2024 11:22
Client ID: VSTD001
Sample Info: VSTD001;VSTD0011;3
Purge Volume: 5.0
Column phase: DB624
Instrument: VOA9,i
Operator: FT
Column diameter: 0.18
Page 1

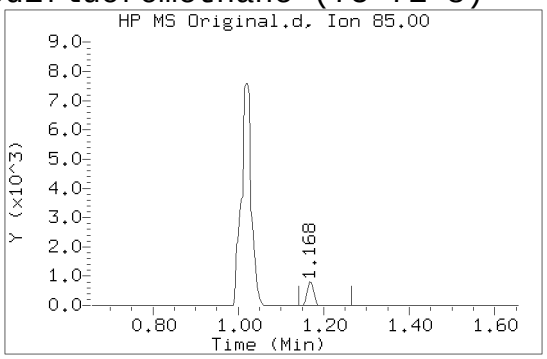
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InstruID : VOA9.i
LabSampID : VSTD001

Dichlorodifluoromethane (75-71-8)

Reason Code:

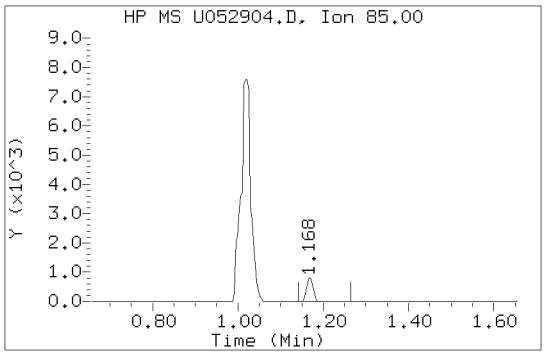
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857
HEIGHT
817
06-Jun-2024
17:10
s
zaid



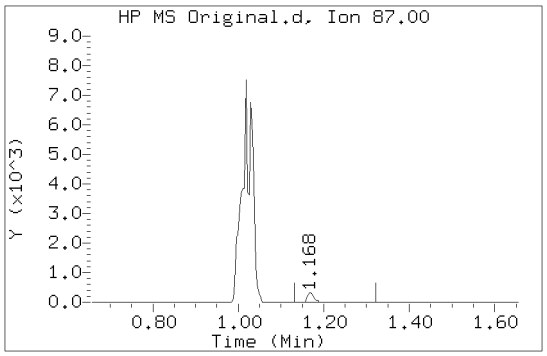
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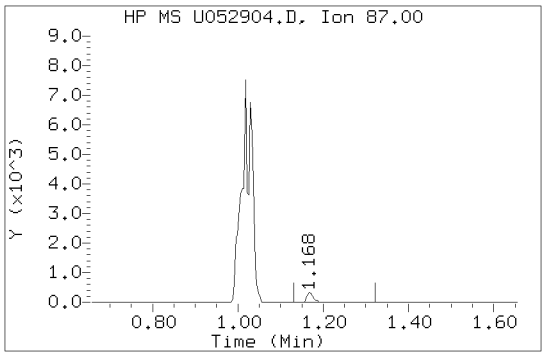
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06-Jun-2024
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zaid



AFTER

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HEIGHT
334
06-Jun-2024
17:10
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zaid

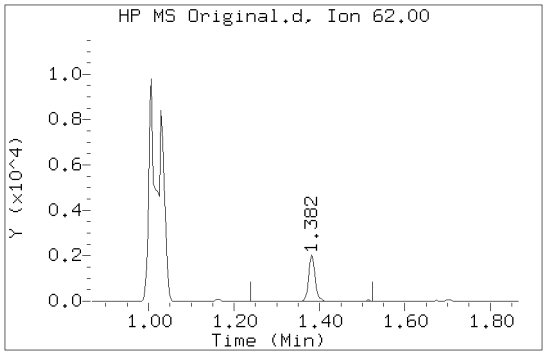


Vinyl Chloride (75-01-4)

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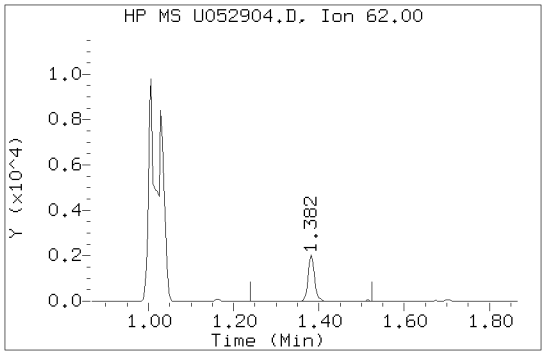
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17:10
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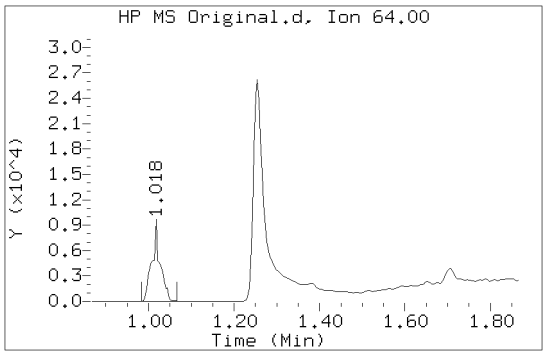
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06-Jun-2024
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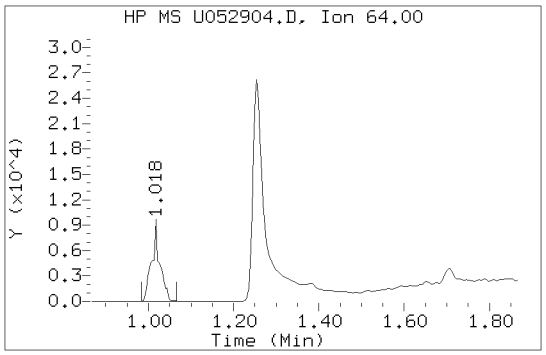
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06-Jun-2024
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zaid



AFTER

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12654
HEIGHT
9665
06-Jun-2024
17:10
s
zaid



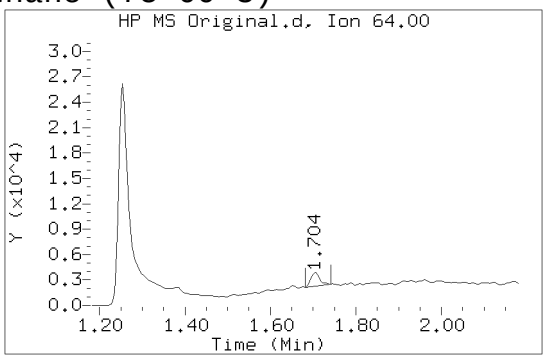
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Inj Date : 29-MAY-2024 11:22
InstruID : VOA9.i
LabSampID : VSTD001

Chloroethane (75-00-3)

Reason Code:

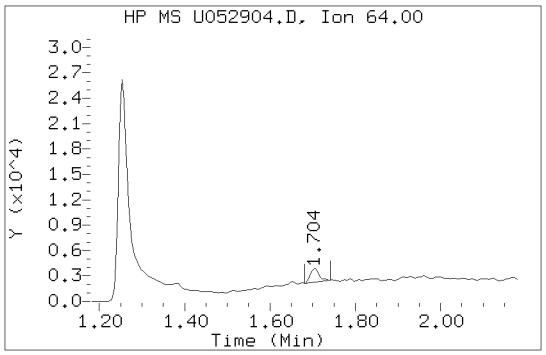
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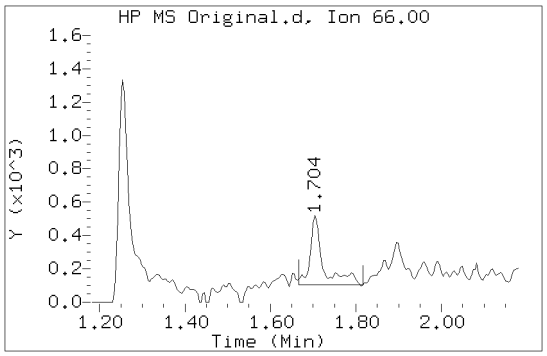
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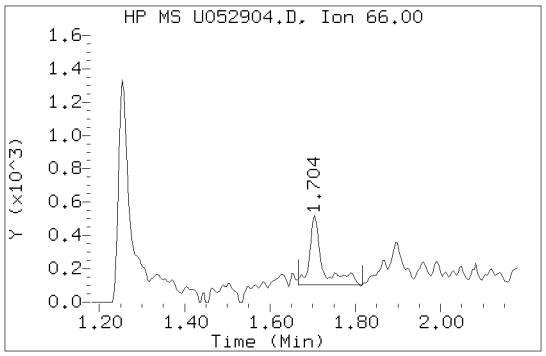
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AREA
899
HEIGHT
416
06-Jun-2024
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zaid



AFTER

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899
HEIGHT
416
06-Jun-2024
17:10
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zaid

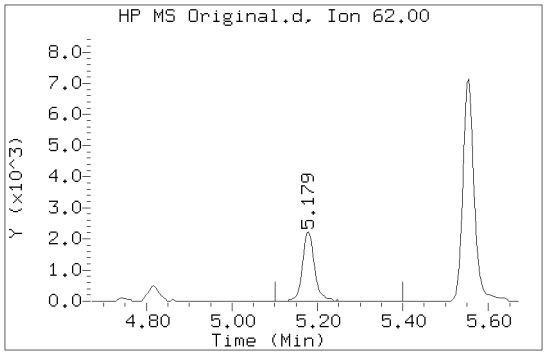


1,2-Dichloroethane (107-06-2)

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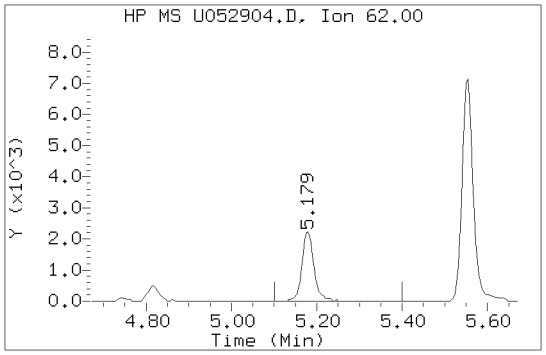
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06-Jun-2024
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zaid



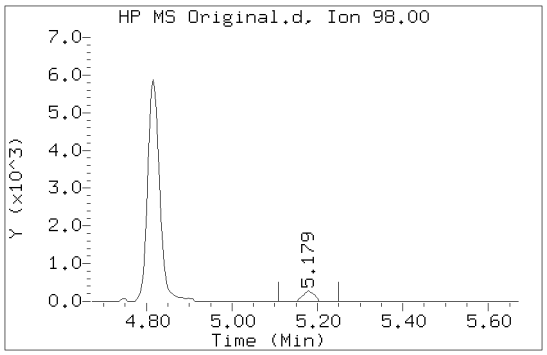
AFTER

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HEIGHT
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06-Jun-2024
17:10
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zaid



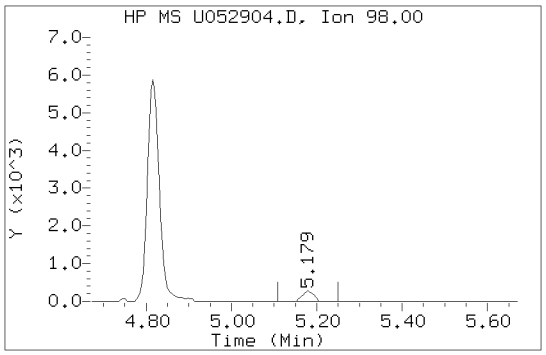
BEFORE

MASS
98
AREA
508
HEIGHT
284
06-Jun-2024
17:10
s
zaid



AFTER

MASS
98
AREA
508
HEIGHT
284
06-Jun-2024
17:10
s
zaid

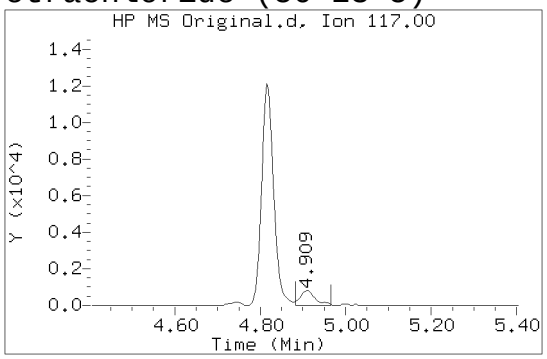


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Inj Date : 29-MAY-2024 11:22
InstruID : VOA9.i
LabSampID : VSTD001

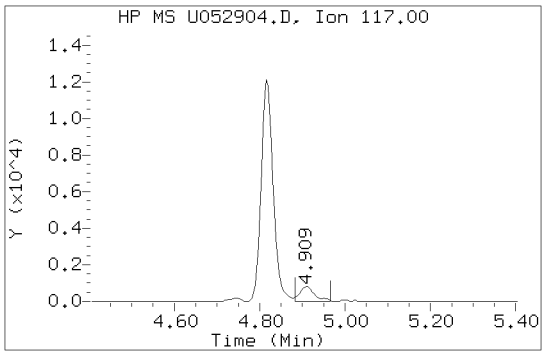
Carbon Tetrachloride (56-23-5)

Reason Code:

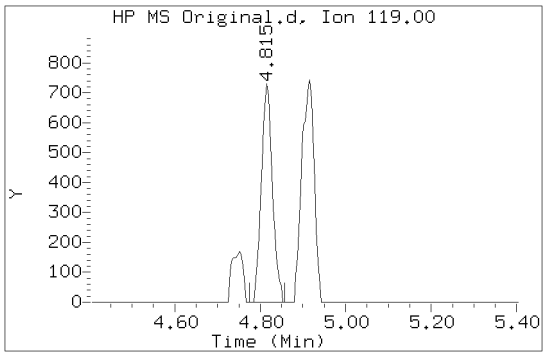
BEFORE
MASS
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AREA
2008
HEIGHT
821
06-Jun-2024
17:10
s
zaid



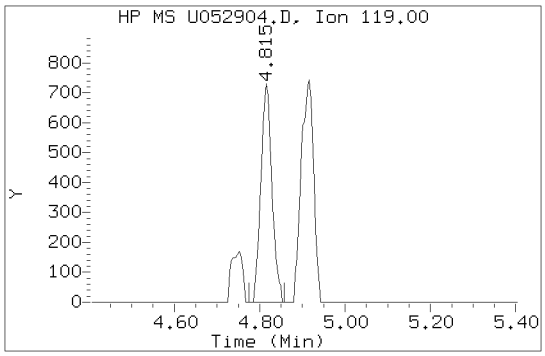
AFTER
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HEIGHT
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06-Jun-2024
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BEFORE
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AREA
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HEIGHT
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06-Jun-2024
17:10
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zaid



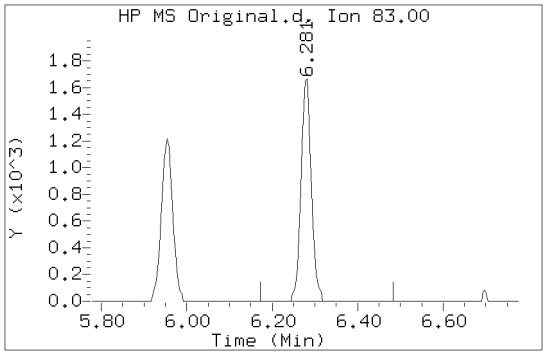
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06-Jun-2024
17:10
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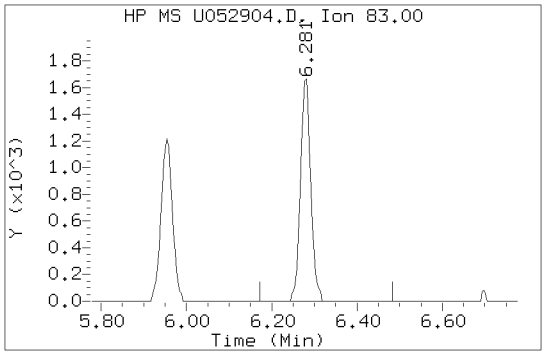
Bromodichloromethane (75-27-4)

Reason Code:

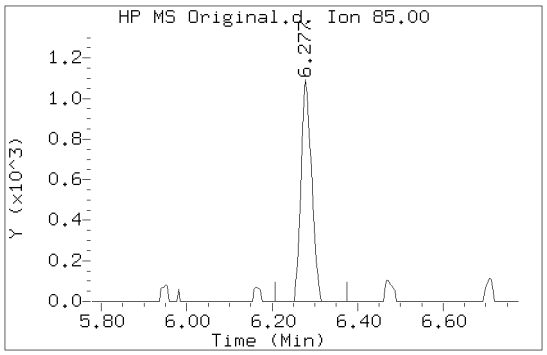
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06-Jun-2024
17:10
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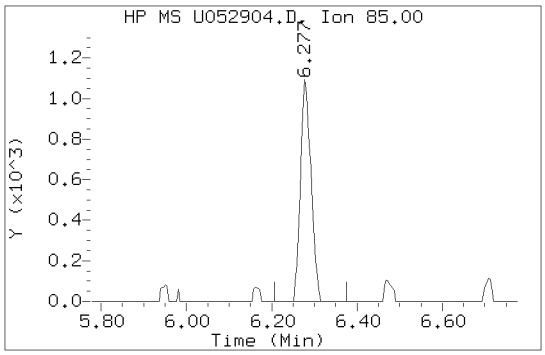
AFTER
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zaid



BEFORE
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AREA
1914
HEIGHT
1093
06-Jun-2024
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zaid



AFTER
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AREA
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17:10
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zaid



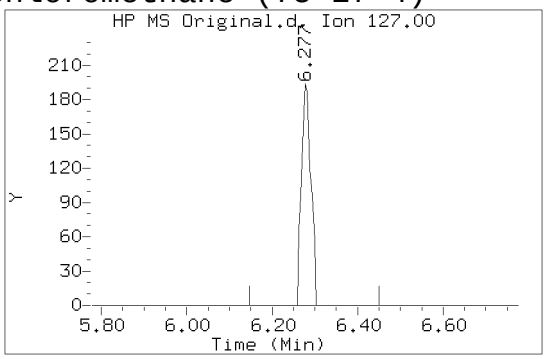
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Inj Date : 29-MAY-2024 11:22
InstruID : VOA9.i
LabSampID : VSTD001

Bromodichloromethane (75-27-4)

Reason Code:

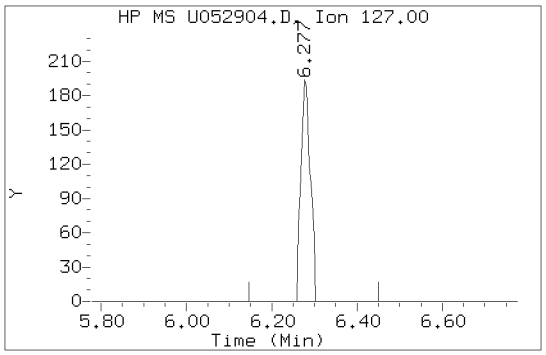
BEFORE

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194
06-Jun-2024
17:10
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zaid



AFTER

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06-Jun-2024
17:10
s
zaid

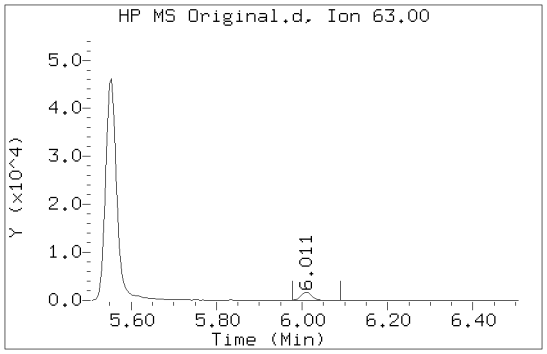


1,2-Dichloropropane (78-87-5)

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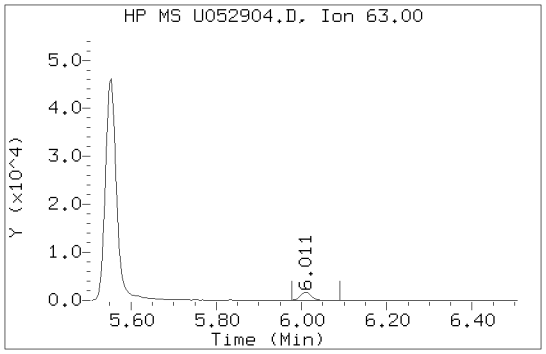
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zaid



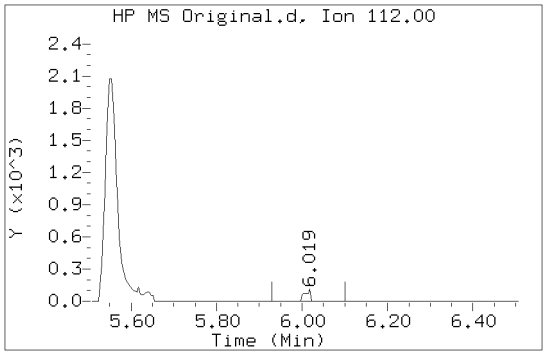
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06-Jun-2024
17:10
s
zaid



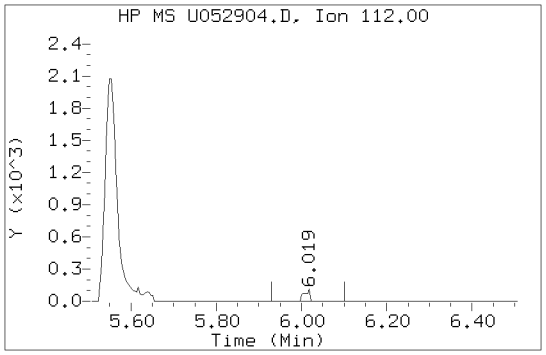
BEFORE

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112
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HEIGHT
114
06-Jun-2024
17:10
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zaid



AFTER

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AREA
102
HEIGHT
114
06-Jun-2024
17:10
s
zaid

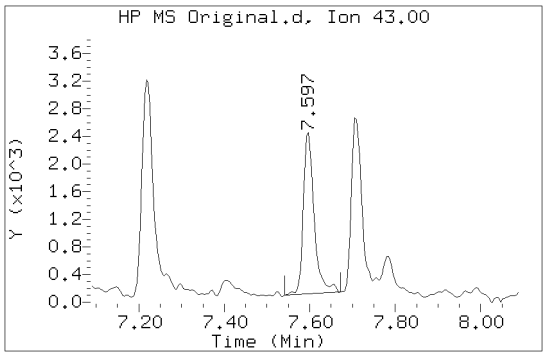


2-Hexanone (591-78-6)

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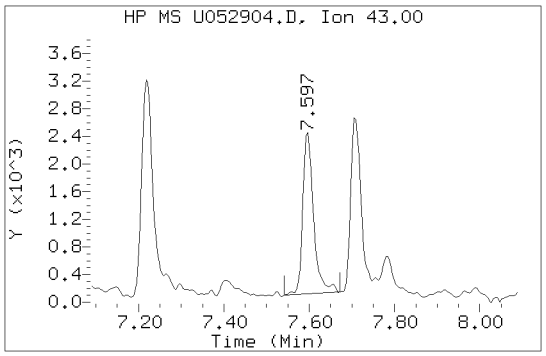
BEFORE

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2333
06-Jun-2024
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AFTER

MASS
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AREA
4192
HEIGHT
2333
06-Jun-2024
17:10
s
zaid



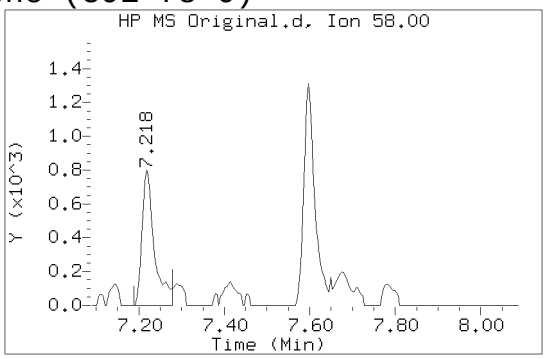
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052904.D
Inj Date : 29-MAY-2024 11:22
InstruID : VOA9.i
LabSampID : VSTD001

2-Hexanone (591-78-6)

Reason Code:

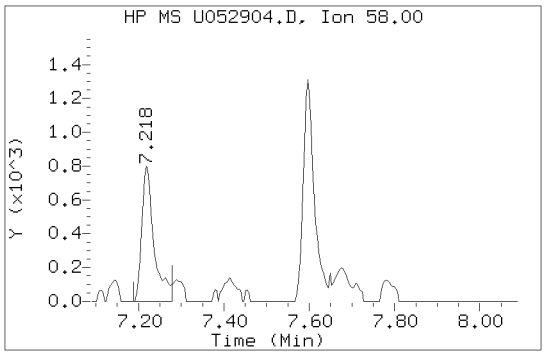
BEFORE

MASS
58
AREA
1605
HEIGHT
799
06-Jun-2024
17:10
s
zaid



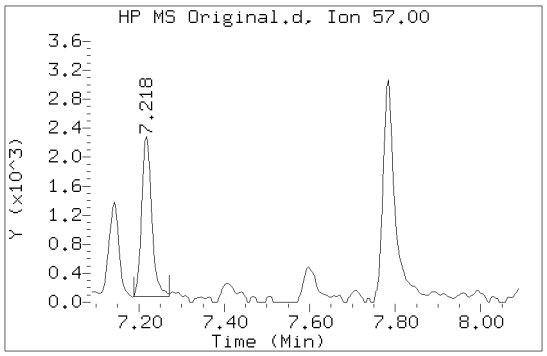
AFTER

MASS
58
AREA
1605
HEIGHT
799
06-Jun-2024
17:10
s
zaid



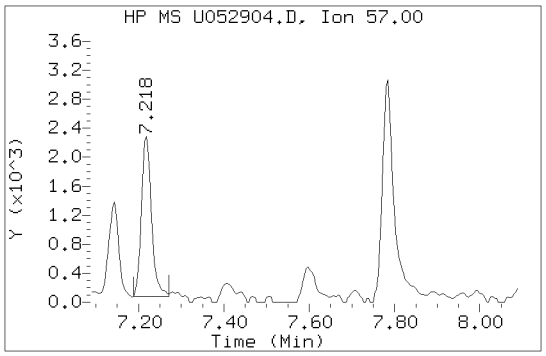
BEFORE

MASS
57
AREA
3635
HEIGHT
2212
06-Jun-2024
17:10
s
zaid



AFTER

MASS
57
AREA
3635
HEIGHT
2212
06-Jun-2024
17:10
s
zaid

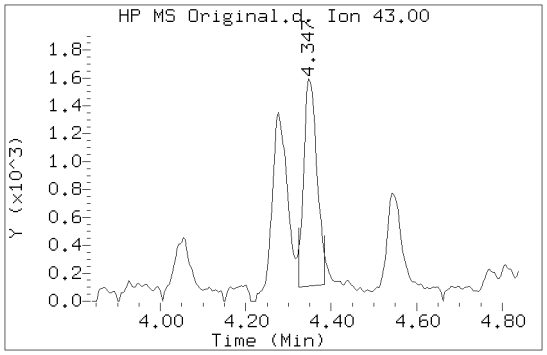


Vinyl Acetate (108-05-4)

Reason Code:

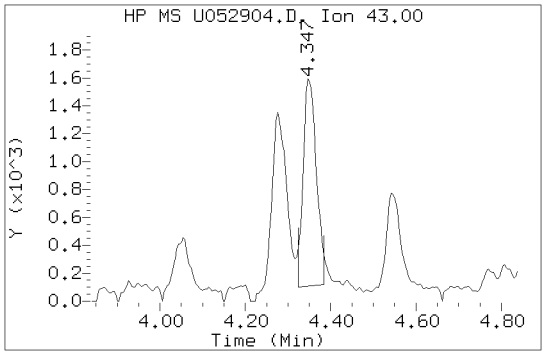
BEFORE

MASS
43
AREA
3220
HEIGHT
1483
06-Jun-2024
17:10
s
zaid



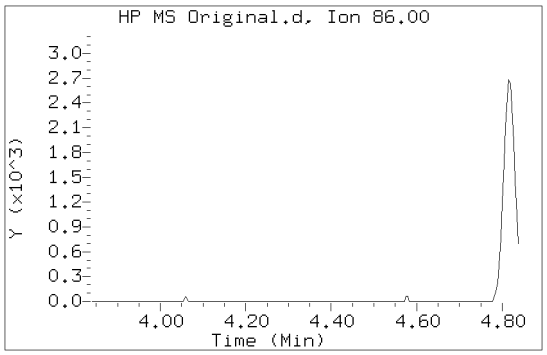
AFTER

MASS
43
AREA
3220
HEIGHT
1483
06-Jun-2024
17:10
s
zaid



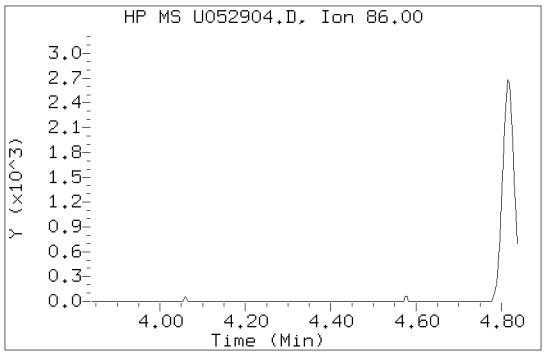
BEFORE

MASS
86
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



AFTER

MASS
86
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



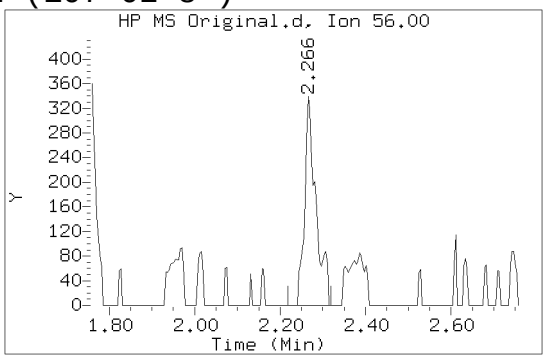
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052904.D
Inj Date : 29-MAY-2024 11:22
InstruID : VOA9.i
LabSampID : VSTD001

Acrolein (107-02-8)

Reason Code:

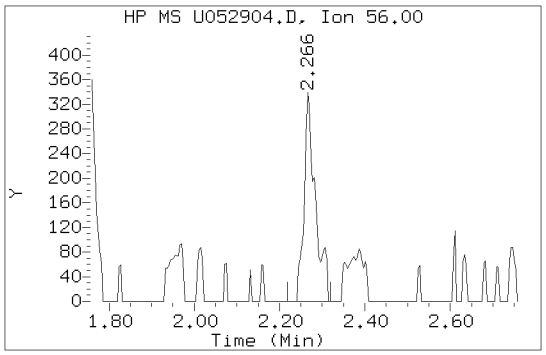
BEFORE

MASS
56
AREA
625
HEIGHT
339
06-Jun-2024
17:10
s
zaid



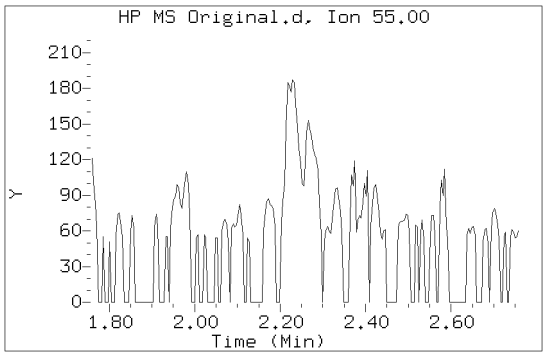
AFTER

MASS
56
AREA
625
HEIGHT
339
06-Jun-2024
17:10
s
zaid



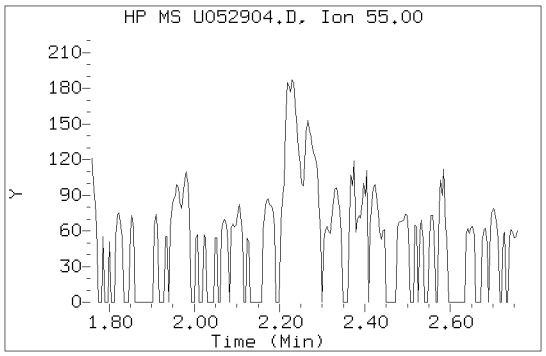
BEFORE

MASS
55
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



AFTER

MASS
55
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid

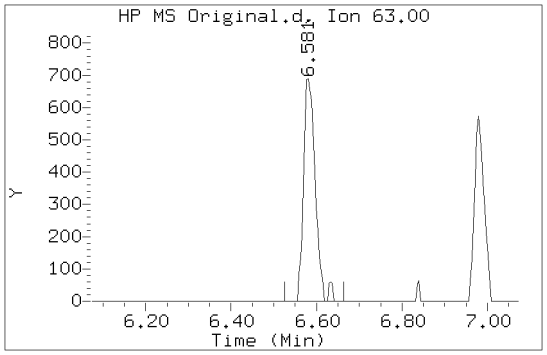


2-Chloroethylvinyl ether (110-75-8)

Reason Code:

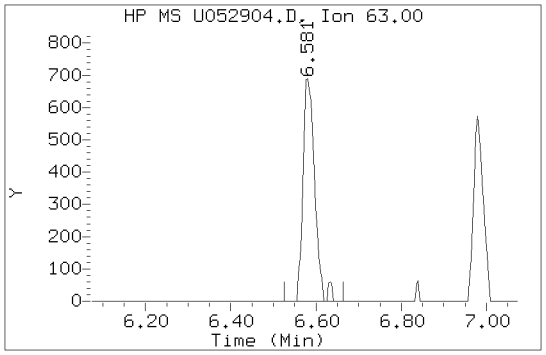
BEFORE

MASS
63
AREA
1330
HEIGHT
689
06-Jun-2024
17:10
s
zaid



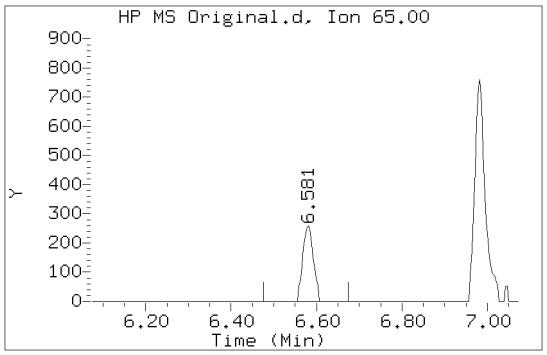
AFTER

MASS
63
AREA
1330
HEIGHT
689
06-Jun-2024
17:10
s
zaid



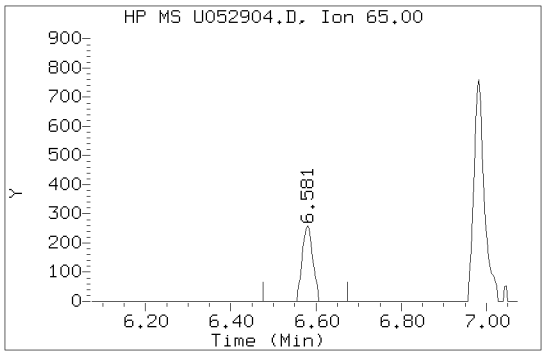
BEFORE

MASS
65
AREA
450
HEIGHT
260
06-Jun-2024
17:10
s
zaid



AFTER

MASS
65
AREA
450
HEIGHT
260
06-Jun-2024
17:10
s
zaid



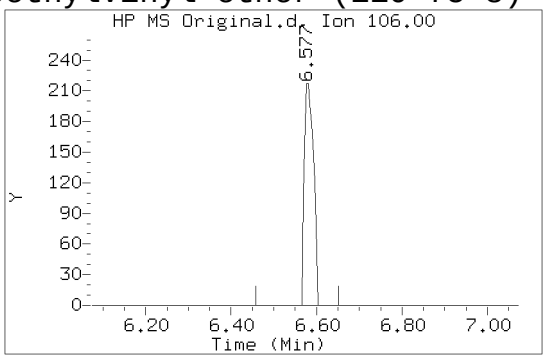
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052904.D
Inj Date : 29-MAY-2024 11:22
InstruID : VOA9.i
LabSampID : VSTD001

2-Chloroethylvinyl ether (110-75-8)

Reason Code:

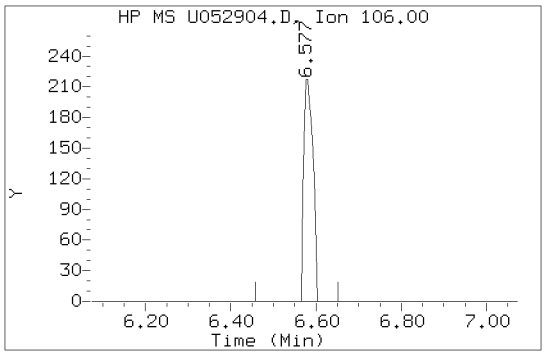
BEFORE

MASS
106
AREA
326
HEIGHT
217
06-Jun-2024
17:10
s
zaid



AFTER

MASS
106
AREA
326
HEIGHT
217
06-Jun-2024
17:10
s
zaid

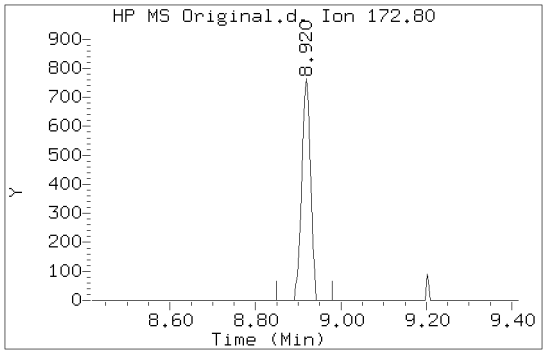


Bromoform (75-25-2)

Reason Code:

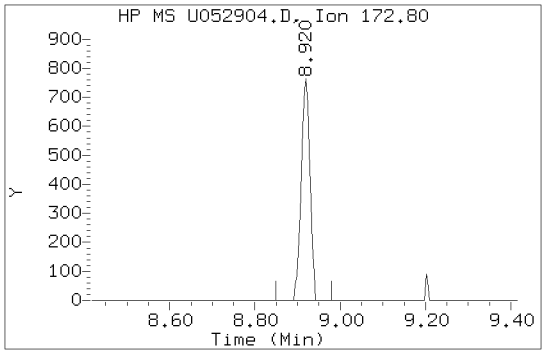
BEFORE

MASS
172.8
AREA
1114
HEIGHT
764
06-Jun-2024
17:10
s
zaid



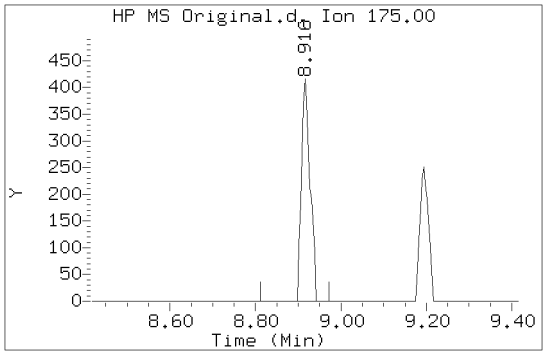
AFTER

MASS
172.8
AREA
1114
HEIGHT
764
06-Jun-2024
17:10
s
zaid



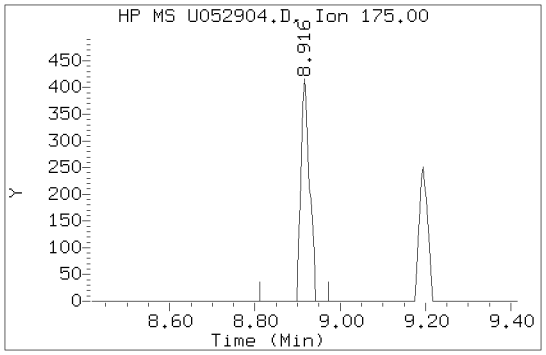
BEFORE

MASS
175
AREA
594
HEIGHT
416
06-Jun-2024
17:10
s
zaid



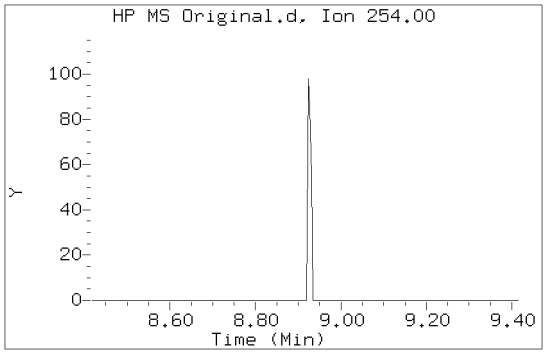
AFTER

MASS
175
AREA
594
HEIGHT
416
06-Jun-2024
17:10
s
zaid



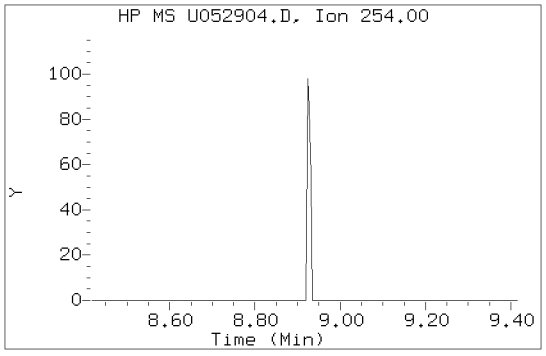
BEFORE

MASS
254
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



AFTER

MASS
254
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



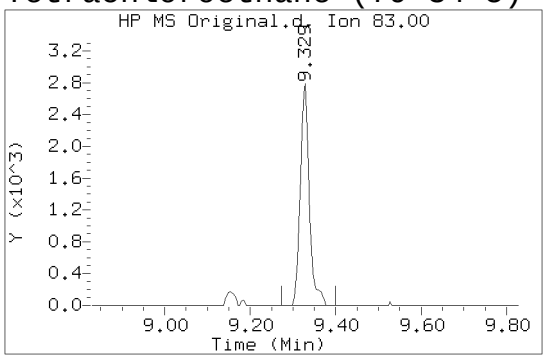
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052904.D
Inj Date : 29-MAY-2024 11:22
InstruID : VOA9.i
LabSampID : VSTD001

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

Reason Code:

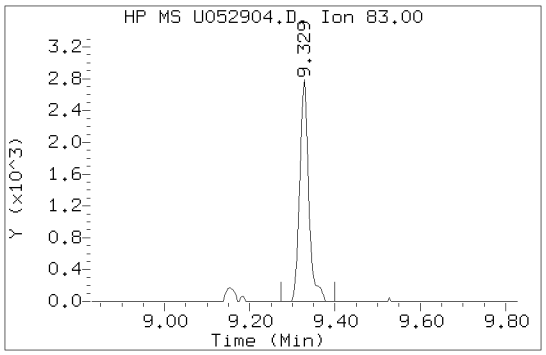
BEFORE

MASS
83
AREA
4229
HEIGHT
2788
06-Jun-2024
17:10
s
zaid



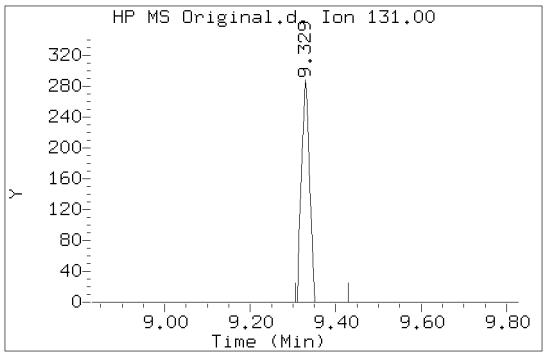
AFTER

MASS
83
AREA
4229
HEIGHT
2788
06-Jun-2024
17:10
s
zaid



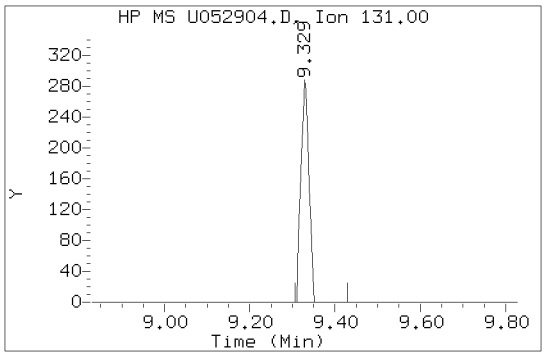
BEFORE

MASS
131
AREA
390
HEIGHT
288
06-Jun-2024
17:10
s
zaid



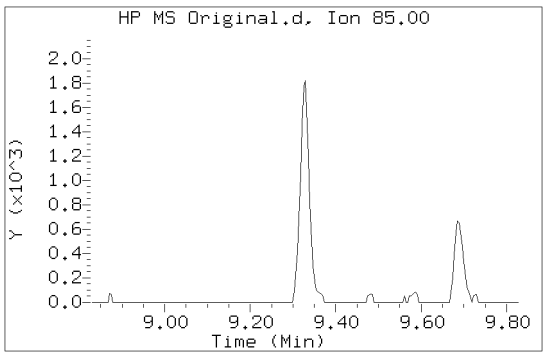
AFTER

MASS
131
AREA
390
HEIGHT
288
06-Jun-2024
17:10
s
zaid



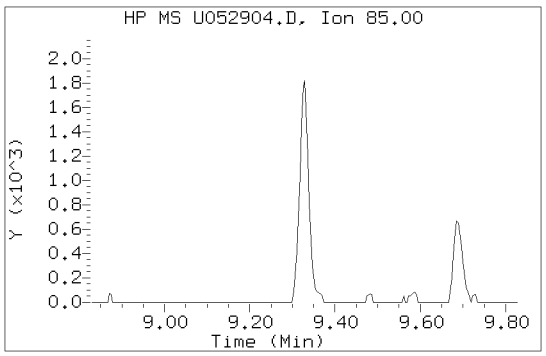
BEFORE

MASS
85
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



AFTER

MASS
85
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid

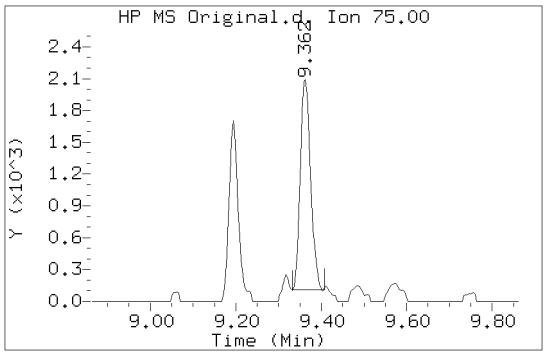


1,2,3-Trichloropropane (96-18-4)

Reason Code:

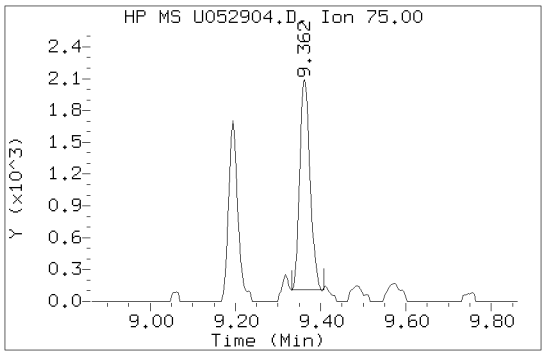
BEFORE

MASS
75
AREA
3399
HEIGHT
1982
06-Jun-2024
17:10
s
zaid



AFTER

MASS
75
AREA
3399
HEIGHT
1982
06-Jun-2024
17:10
s
zaid



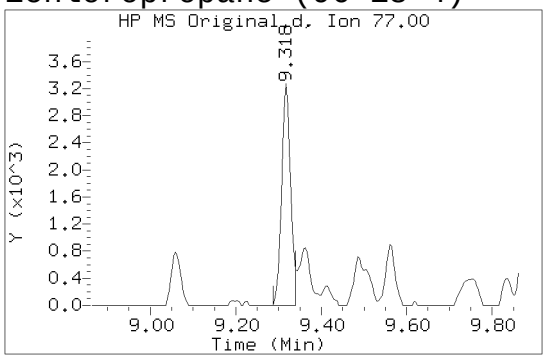
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052904.D
Inj Date : 29-MAY-2024 11:22
InstruID : VOA9.i
LabSampID : VSTD001

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

Reason Code:

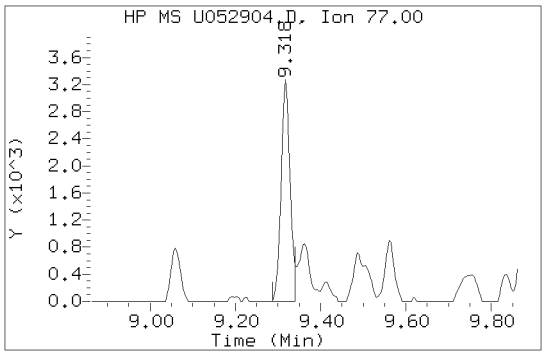
BEFORE

MASS
77
AREA
4795
HEIGHT
3273
06-Jun-2024
17:10
s
zaid



AFTER

MASS
77
AREA
4795
HEIGHT
3273
06-Jun-2024
17:10
s
zaid

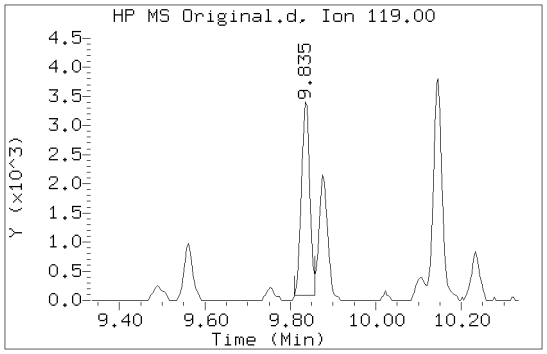


tert-Butylbenzene (98-06-6)

Reason Code:

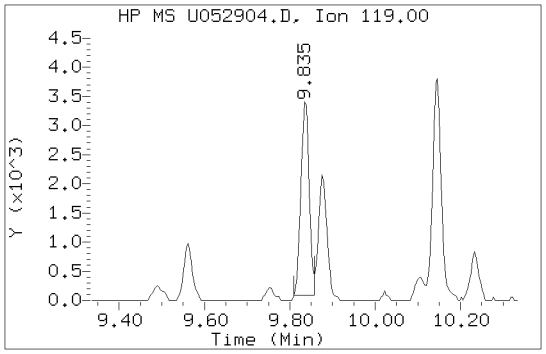
BEFORE

MASS
119
AREA
4628
HEIGHT
3320
06-Jun-2024
17:10
s
zaid



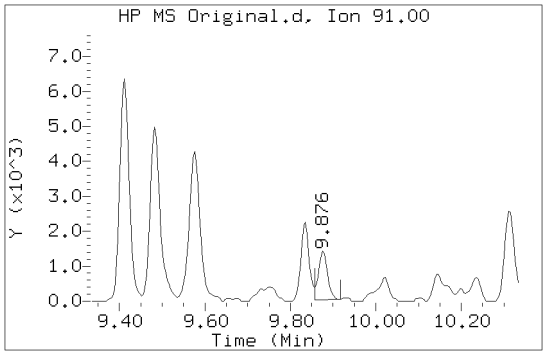
AFTER

MASS
119
AREA
4628
HEIGHT
3320
06-Jun-2024
17:10
s
zaid



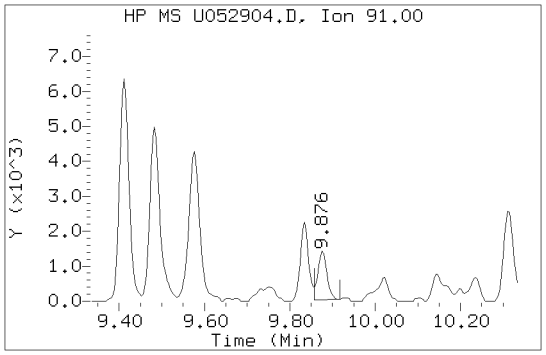
BEFORE

MASS
91
AREA
2049
HEIGHT
1380
06-Jun-2024
17:10
s
zaid



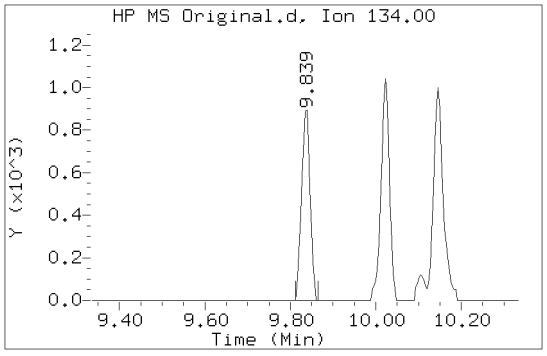
AFTER

MASS
91
AREA
2049
HEIGHT
1380
06-Jun-2024
17:10
s
zaid



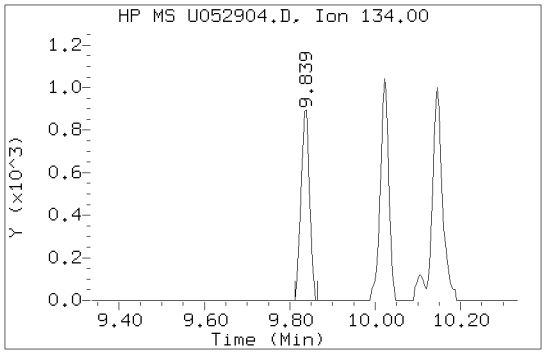
BEFORE

MASS
134
AREA
1283
HEIGHT
894
06-Jun-2024
17:10
s
zaid



AFTER

MASS
134
AREA
1283
HEIGHT
894
06-Jun-2024
17:10
s
zaid



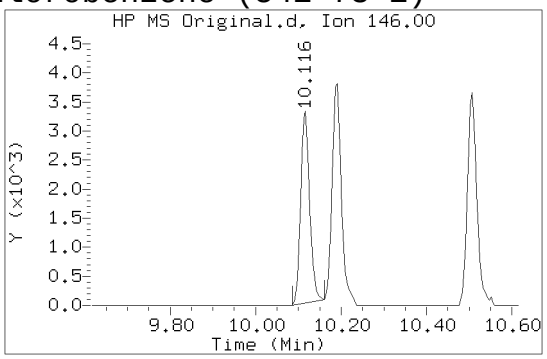
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052904.D
Inj Date : 29-MAY-2024 11:22
InstruID : VOA9.i
LabSampID : VSTD001

1,3-Dichlorobenzene (541-73-1)

Reason Code:

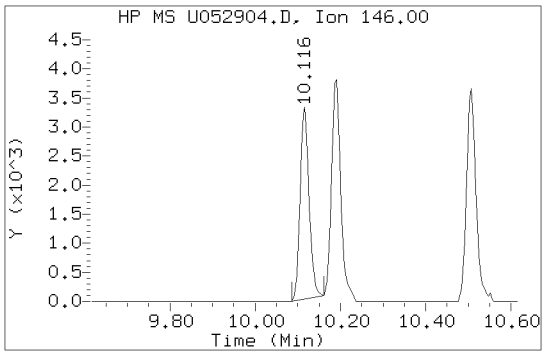
BEFORE

MASS
146
AREA
4916
HEIGHT
3297
06-Jun-2024
17:10
s
zaid



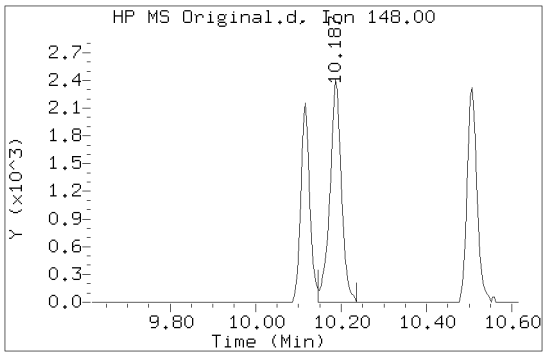
AFTER

MASS
146
AREA
4916
HEIGHT
3297
06-Jun-2024
17:10
s
zaid



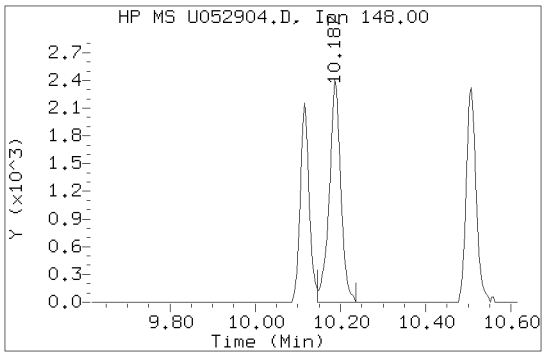
BEFORE

MASS
148
AREA
4504
HEIGHT
2405
06-Jun-2024
17:10
s
zaid



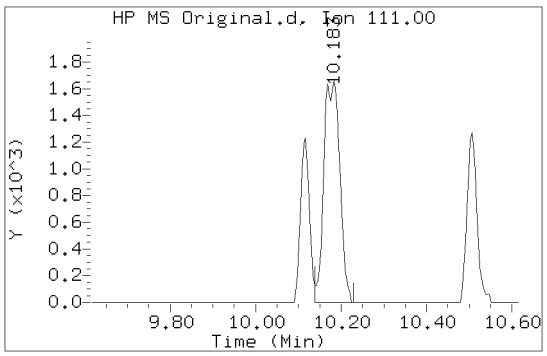
AFTER

MASS
148
AREA
4504
HEIGHT
2405
06-Jun-2024
17:10
s
zaid



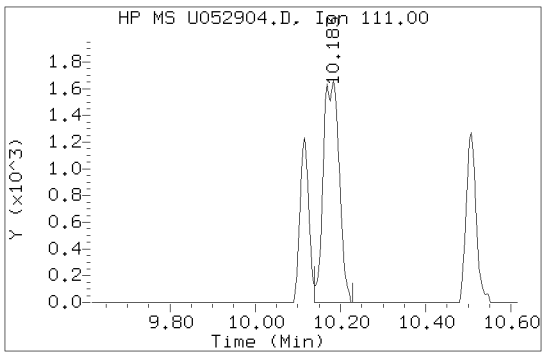
BEFORE

MASS
111
AREA
4324
HEIGHT
1660
06-Jun-2024
17:10
s
zaid



AFTER

MASS
111
AREA
4324
HEIGHT
1660
06-Jun-2024
17:10
s
zaid

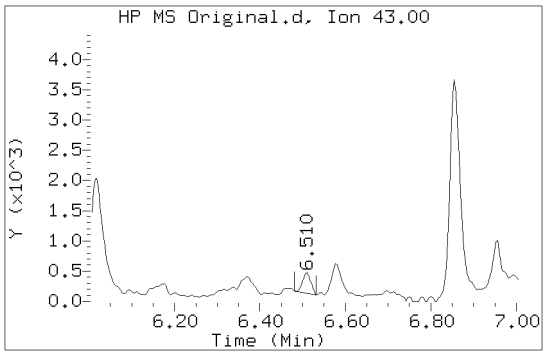


2-Nitropropane (79-46-9)

Reason Code:

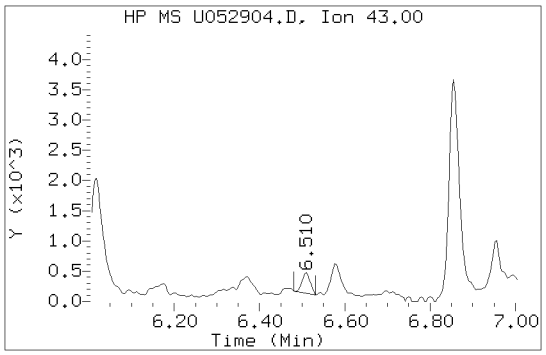
BEFORE

MASS
43
AREA
456
HEIGHT
337
06-Jun-2024
17:10
s
zaid



AFTER

MASS
43
AREA
456
HEIGHT
337
06-Jun-2024
17:10
s
zaid



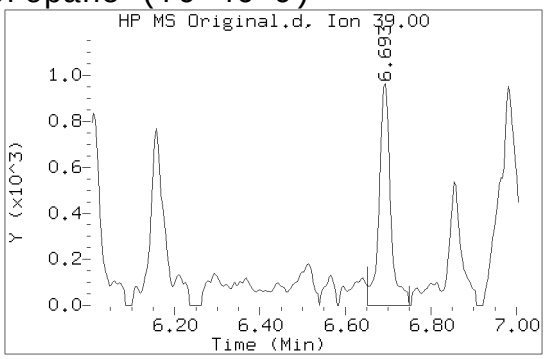
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052904.D
Inj Date : 29-MAY-2024 11:22
InstruID : VOA9.i
LabSampID : VSTD001

2-Nitropropane (79-46-9)

Reason Code:

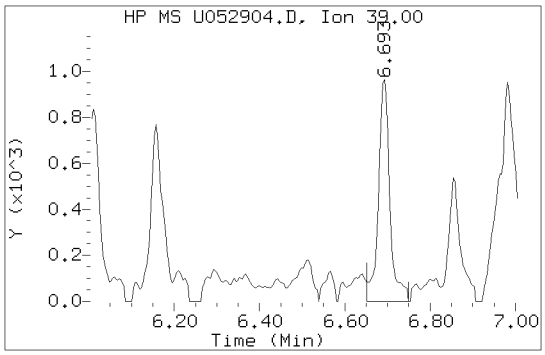
BEFORE

MASS
39
AREA
1799
HEIGHT
964
06-Jun-2024
17:10
s
zaid



AFTER

MASS
39
AREA
1799
HEIGHT
964
06-Jun-2024
17:10
s
zaid

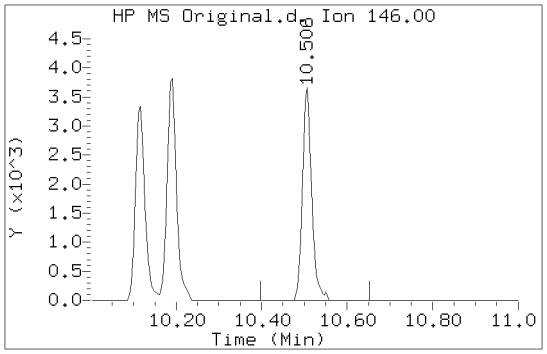


1,2-Dichlorobenzene (95-50-1)

Reason Code:

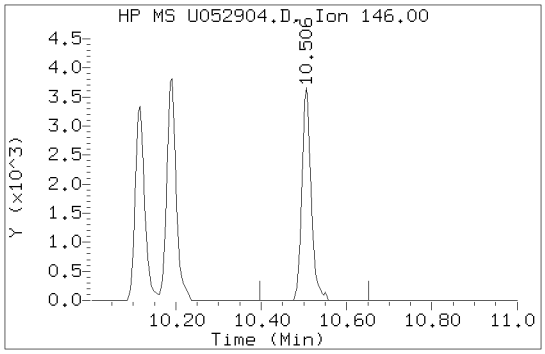
BEFORE

MASS
146
AREA
5651
HEIGHT
3662
06-Jun-2024
17:10
s
zaid



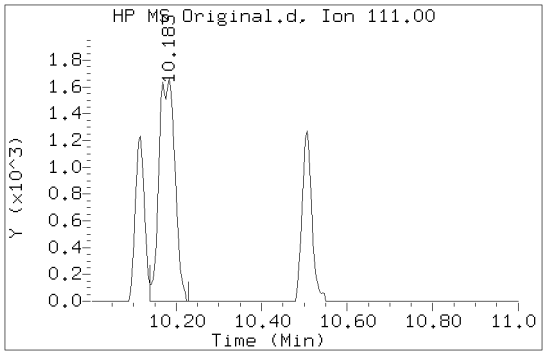
AFTER

MASS
146
AREA
5651
HEIGHT
3662
06-Jun-2024
17:10
s
zaid



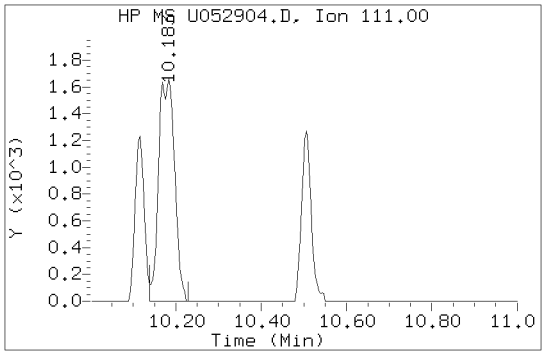
BEFORE

MASS
111
AREA
4324
HEIGHT
1660
06-Jun-2024
17:10
s
zaid



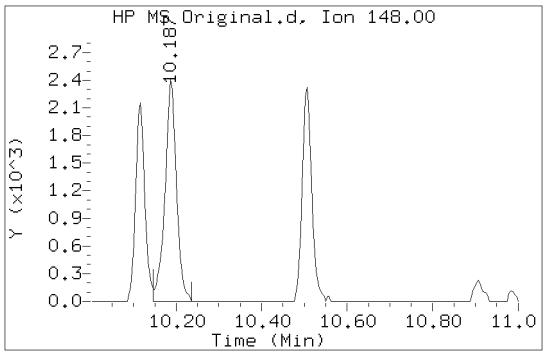
AFTER

MASS
111
AREA
4324
HEIGHT
1660
06-Jun-2024
17:10
s
zaid



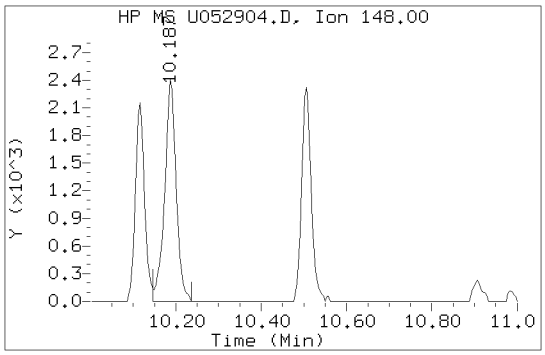
BEFORE

MASS
148
AREA
4504
HEIGHT
2405
06-Jun-2024
17:10
s
zaid



AFTER

MASS
148
AREA
4504
HEIGHT
2405
06-Jun-2024
17:10
s
zaid



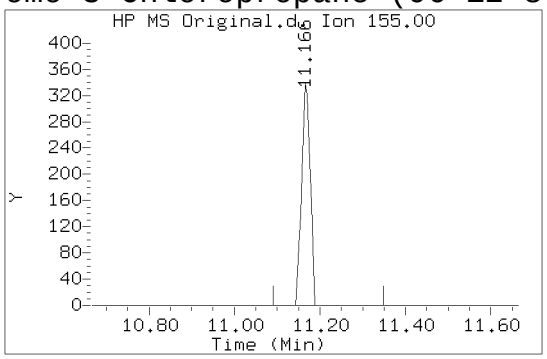
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052904.D
Inj Date : 29-MAY-2024 11:22
InstruID : VOA9.i
LabSampID : VSTD001

1,2-Dibromo-3-Chloropropane (96-12-8)

Reason Code:

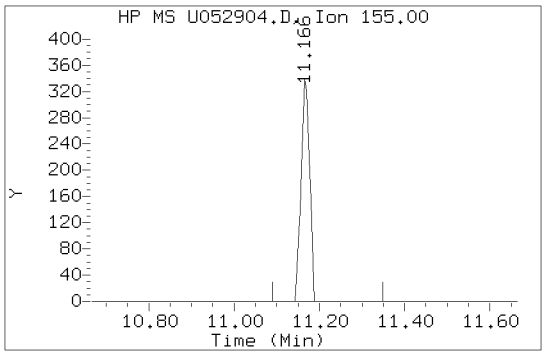
BEFORE

MASS
155
AREA
485
HEIGHT
338
06-Jun-2024
17:10
s
zaid



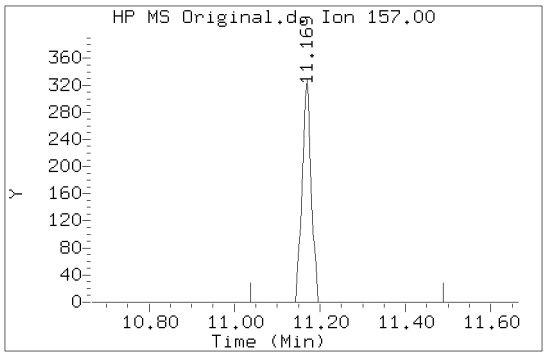
AFTER

MASS
155
AREA
485
HEIGHT
338
06-Jun-2024
17:10
s
zaid



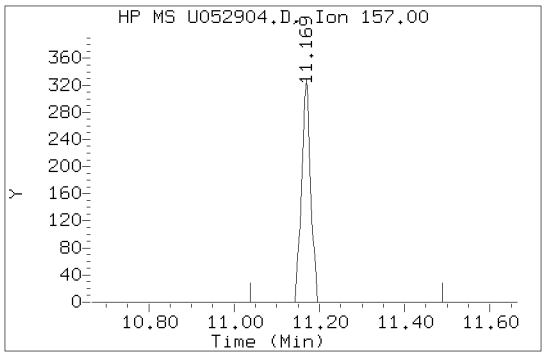
BEFORE

MASS
157
AREA
493
HEIGHT
328
06-Jun-2024
17:10
s
zaid



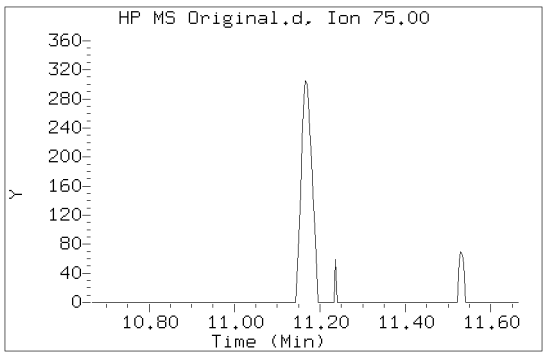
AFTER

MASS
157
AREA
493
HEIGHT
328
06-Jun-2024
17:10
s
zaid



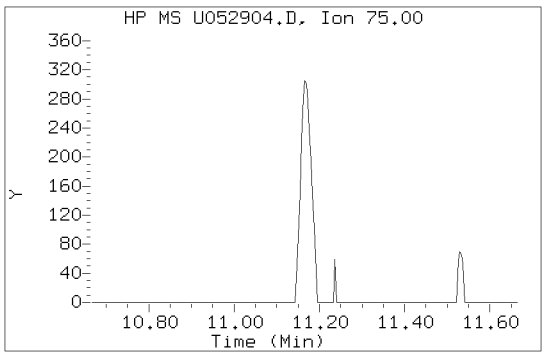
BEFORE

MASS
75
AREA
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HEIGHT
0
06-Jun-2024
17:10
s
zaid



AFTER

MASS
75
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid

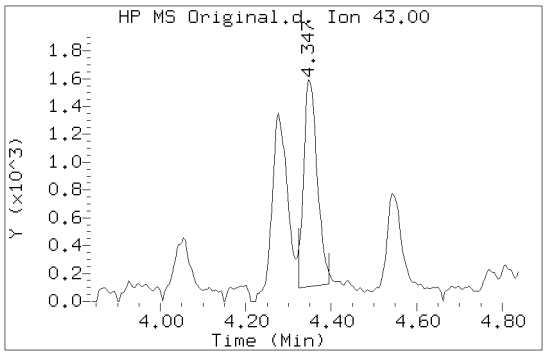


Ethyl Acetate (141-78-6)

Reason Code:

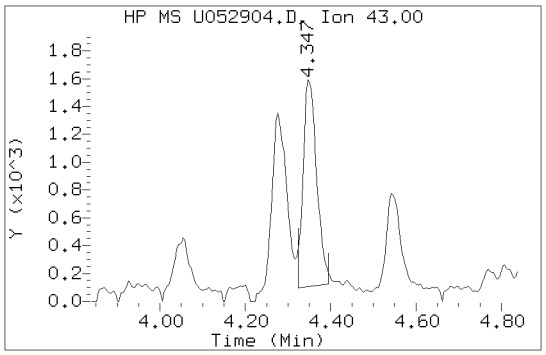
BEFORE

MASS
43
AREA
3313
HEIGHT
1487
06-Jun-2024
17:10
s
zaid



AFTER

MASS
43
AREA
3313
HEIGHT
1487
06-Jun-2024
17:10
s
zaid



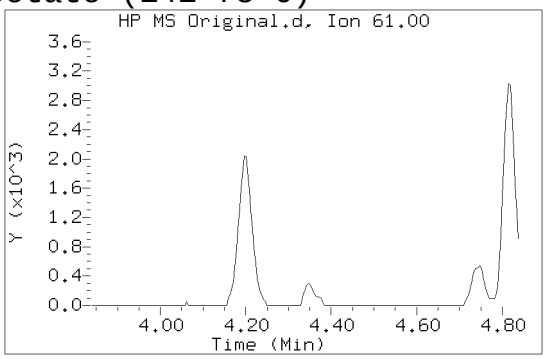
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052904.D
Inj Date : 29-MAY-2024 11:22
InstruID : VOA9.i
LabSampID : VSTD001

Ethyl Acetate (141-78-6)

Reason Code:

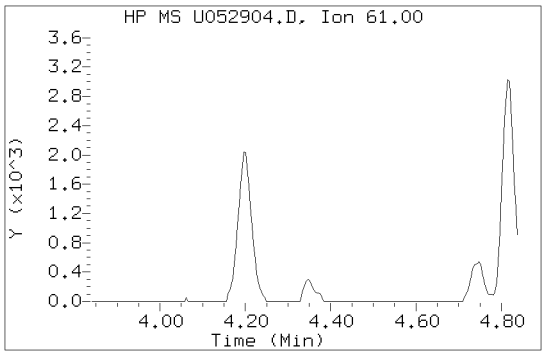
BEFORE

MASS
61
AREA
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HEIGHT
0
06-Jun-2024
17:10
s
zaid



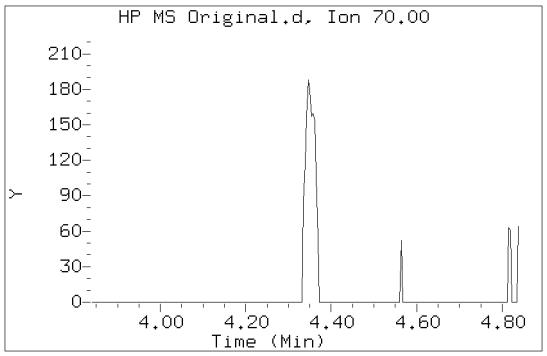
AFTER

MASS
61
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



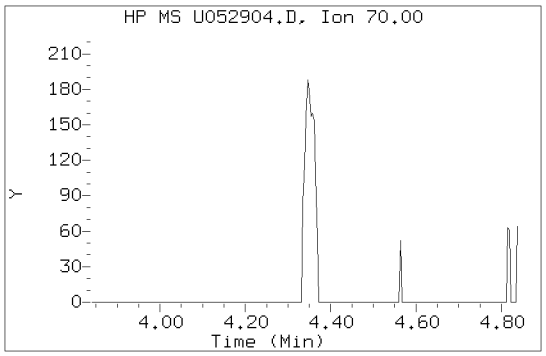
BEFORE

MASS
70
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HEIGHT
0
06-Jun-2024
17:10
s
zaid



AFTER

MASS
70
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid

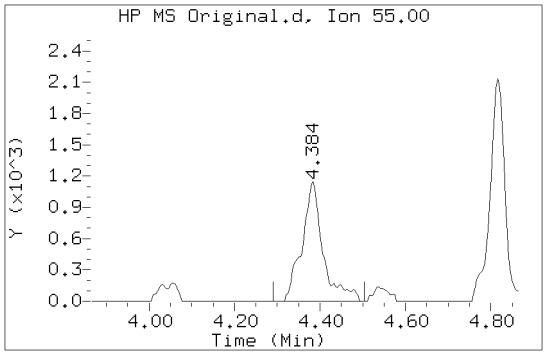


Methyl Acrylate (96-33-3)

Reason Code:

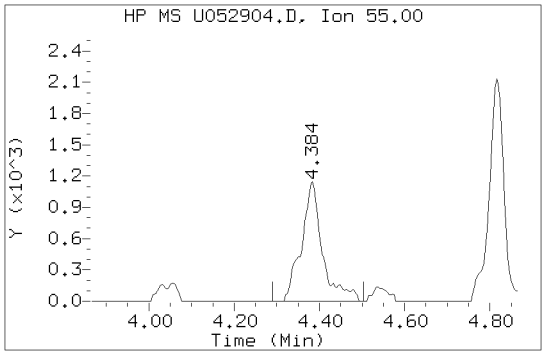
BEFORE

MASS
55
AREA
3957
HEIGHT
1149
06-Jun-2024
17:10
s
zaid



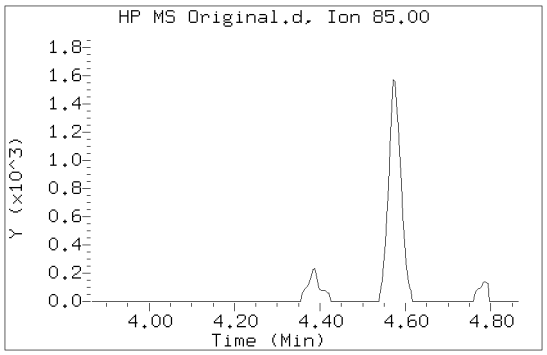
AFTER

MASS
55
AREA
3957
HEIGHT
1149
06-Jun-2024
17:10
s
zaid



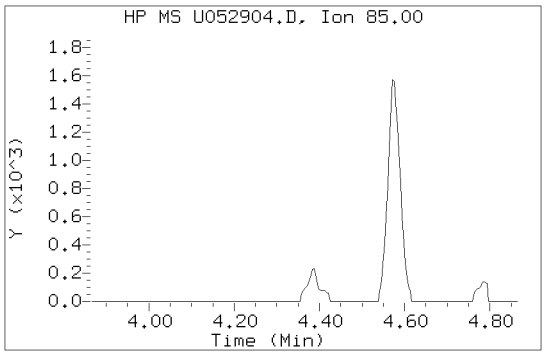
BEFORE

MASS
85
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



AFTER

MASS
85
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



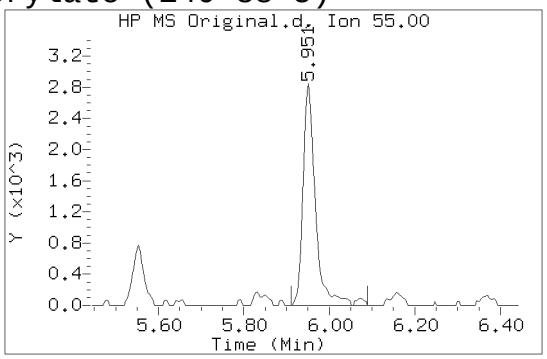
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052904.D
Inj Date : 29-MAY-2024 11:22
InstruID : VOA9.i
LabSampID : VSTD001

Ethyl Acrylate (140-88-5)

Reason Code:

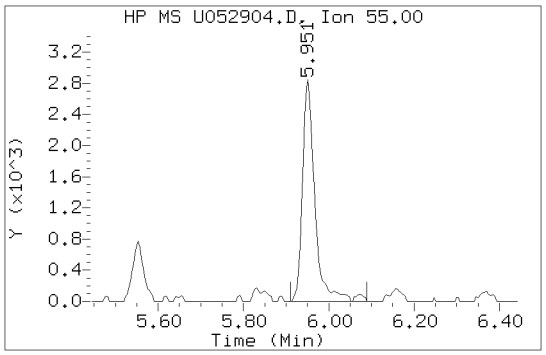
BEFORE

MASS
55
AREA
5916
HEIGHT
2846
06-Jun-2024
17:10
s
zaid



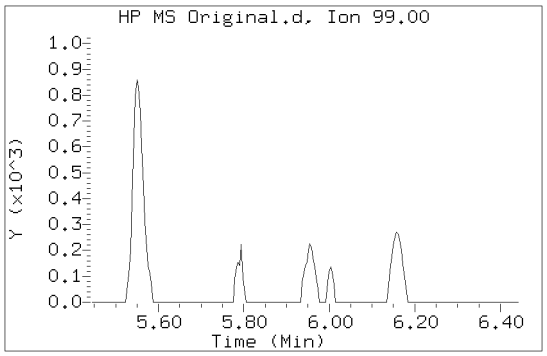
AFTER

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AREA
5916
HEIGHT
2846
06-Jun-2024
17:10
s
zaid



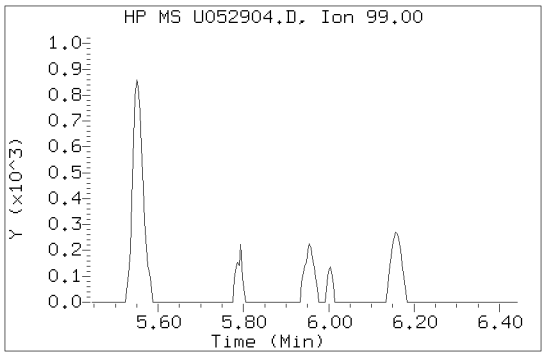
BEFORE

MASS
99
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



AFTER

MASS
99
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid

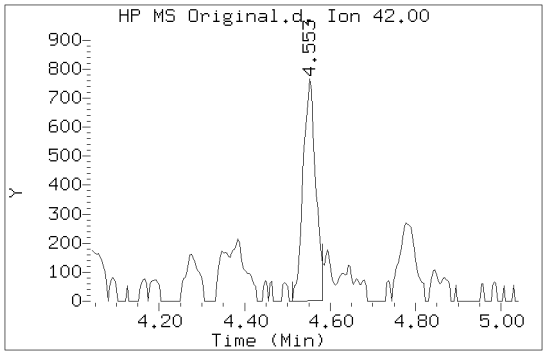


Tetrahydrofuran (109-99-9)

Reason Code:

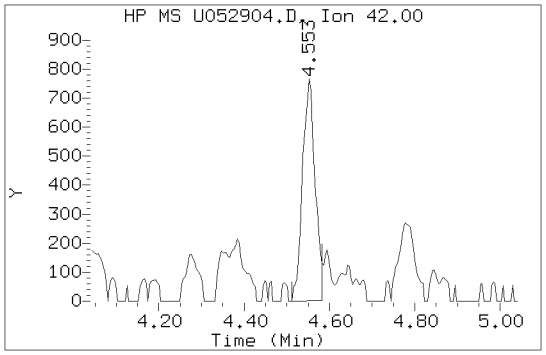
BEFORE

MASS
42
AREA
1587
HEIGHT
764
06-Jun-2024
17:10
s
zaid



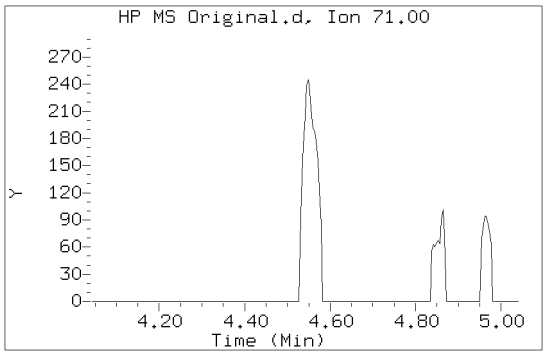
AFTER

MASS
42
AREA
1587
HEIGHT
764
06-Jun-2024
17:10
s
zaid



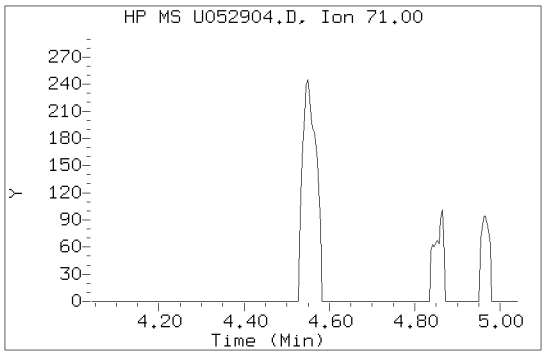
BEFORE

MASS
71
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



AFTER

MASS
71
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



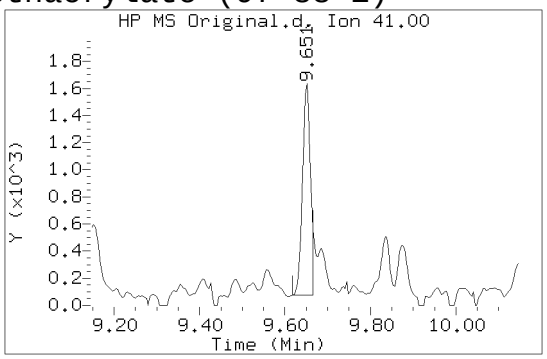
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052904.D
Inj Date : 29-MAY-2024 11:22
InstruID : VOA9.i
LabSampID : VSTD001

Butyl methacrylate (97-88-1)

Reason Code:

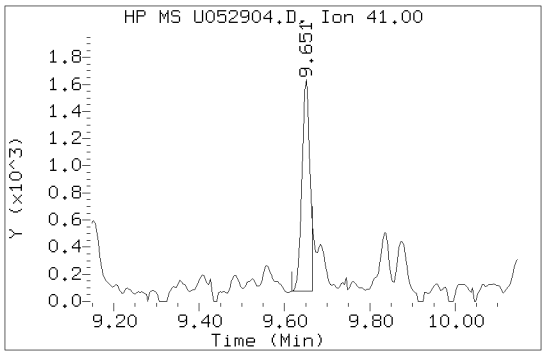
BEFORE

MASS
41
AREA
2085
HEIGHT
1559
06-Jun-2024
17:10
s
zaid



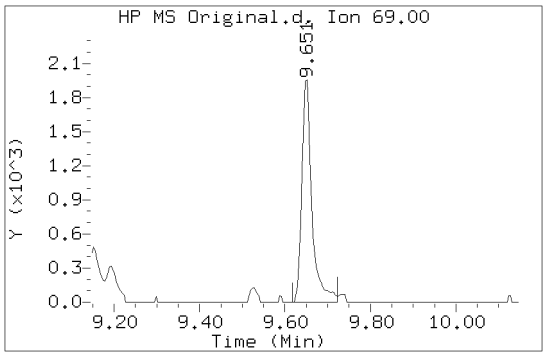
AFTER

MASS
41
AREA
2085
HEIGHT
1559
06-Jun-2024
17:10
s
zaid



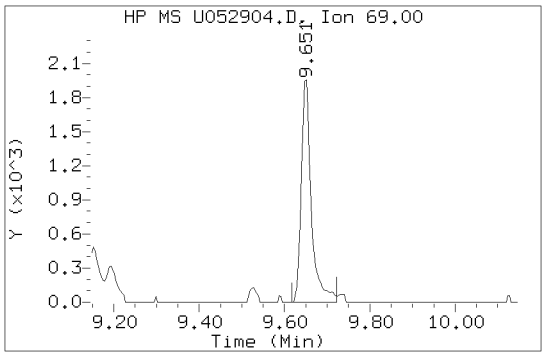
BEFORE

MASS
69
AREA
3292
HEIGHT
1955
06-Jun-2024
17:10
s
zaid



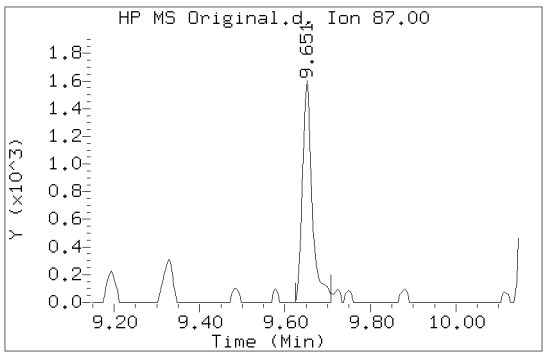
AFTER

MASS
69
AREA
3292
HEIGHT
1955
06-Jun-2024
17:10
s
zaid



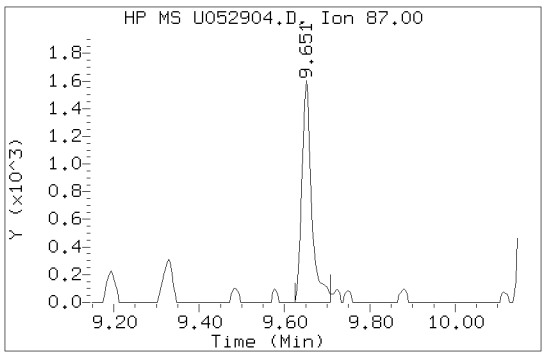
BEFORE

MASS
87
AREA
2619
HEIGHT
1602
06-Jun-2024
17:10
s
zaid



AFTER

MASS
87
AREA
2619
HEIGHT
1602
06-Jun-2024
17:10
s
zaid

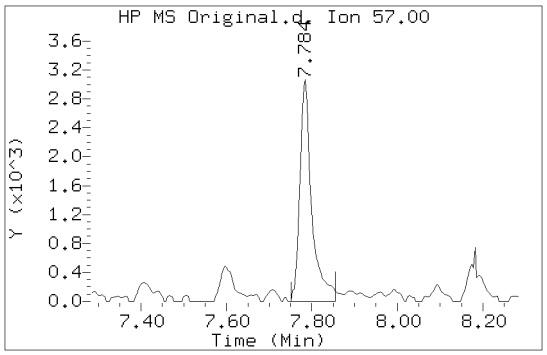


3,3-Dimethyl-1-butanol (624-95-3)

Reason Code:

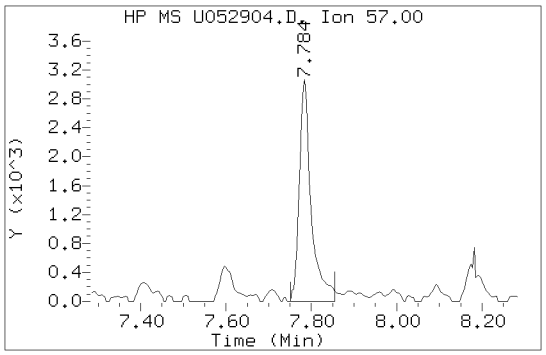
BEFORE

MASS
57
AREA
6038
HEIGHT
3064
06-Jun-2024
17:10
s
zaid



AFTER

MASS
57
AREA
6038
HEIGHT
3064
06-Jun-2024
17:10
s
zaid

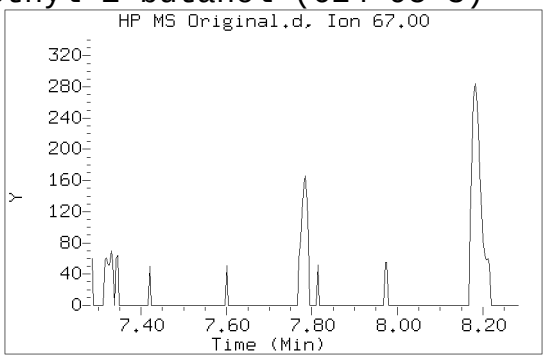


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Inj Date : 29-MAY-2024 11:22
InstruID : VOA9.i
LabSampID : VSTD001

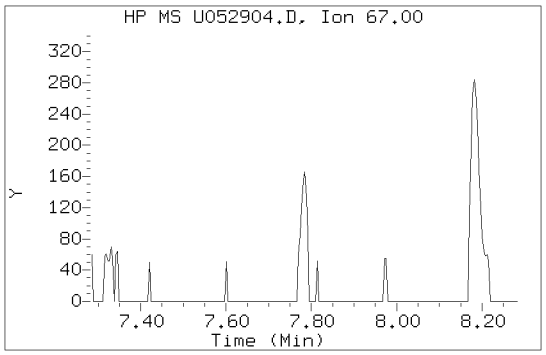
3,3-Dimethyl-1-butanol (624-95-3)

Reason Code:

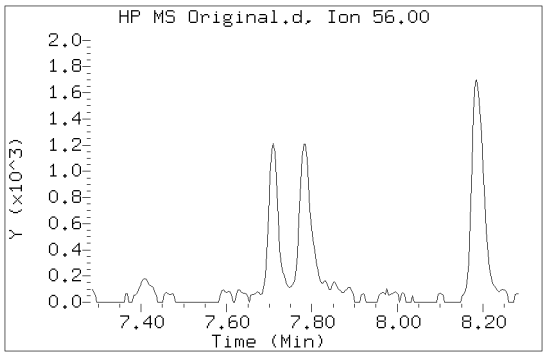
BEFORE
MASS
67
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



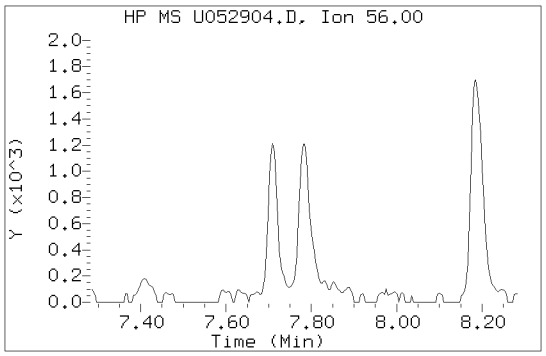
AFTER
MASS
67
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



BEFORE
MASS
56
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



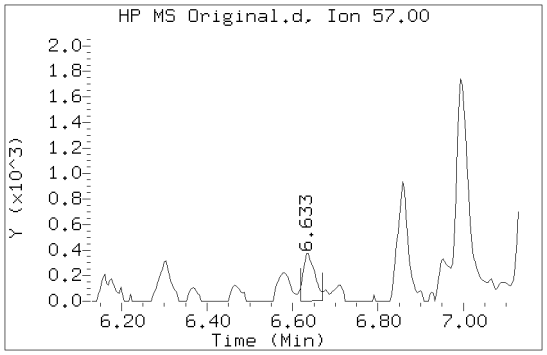
AFTER
MASS
56
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



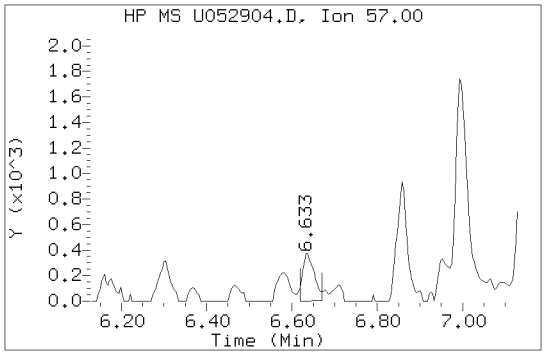
Epichlorohydrin (106-89-8)

Reason Code:

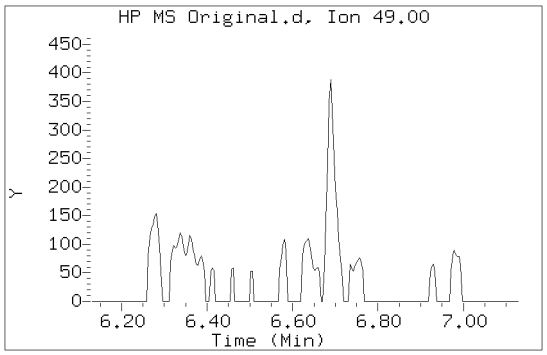
BEFORE
MASS
57
AREA
718
HEIGHT
371
06-Jun-2024
17:10
s
zaid



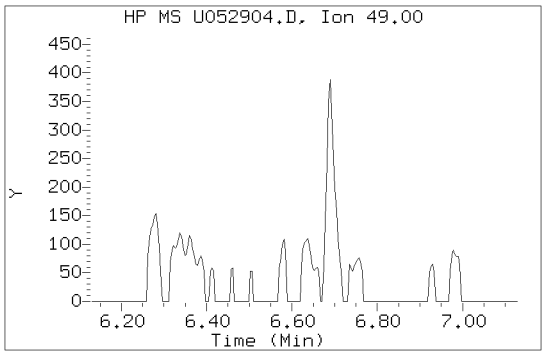
AFTER
MASS
57
AREA
718
HEIGHT
371
06-Jun-2024
17:10
s
zaid



BEFORE
MASS
49
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



AFTER
MASS
49
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



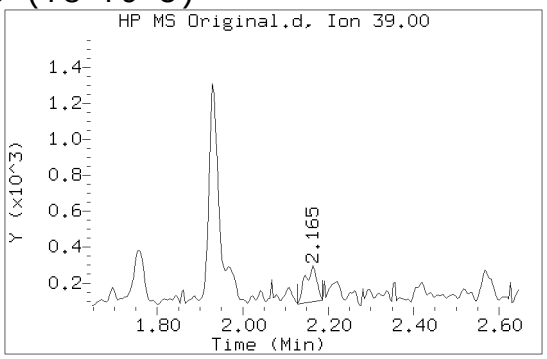
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Inj Date : 29-MAY-2024 11:22
InstruID : VOA9.i
LabSampID : VSTD001

Isoprene (78-79-5)

Reason Code:

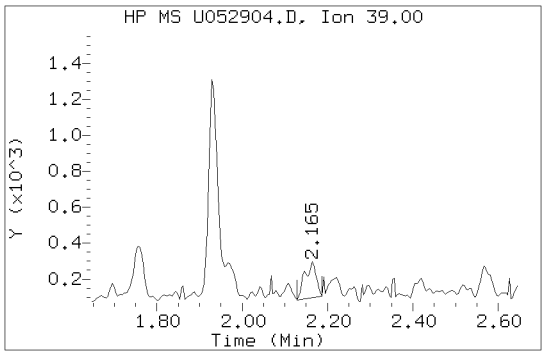
BEFORE

MASS
39
AREA
375
HEIGHT
200
06-Jun-2024
17:10
s
zaid



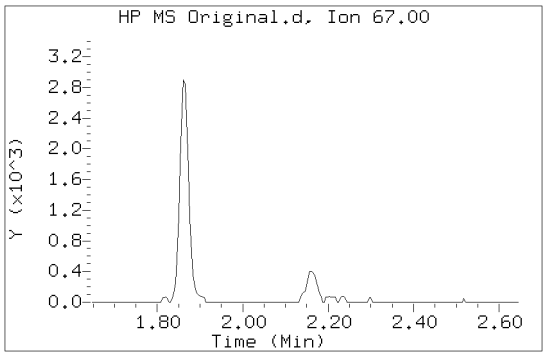
AFTER

MASS
39
AREA
375
HEIGHT
200
06-Jun-2024
17:10
s
zaid



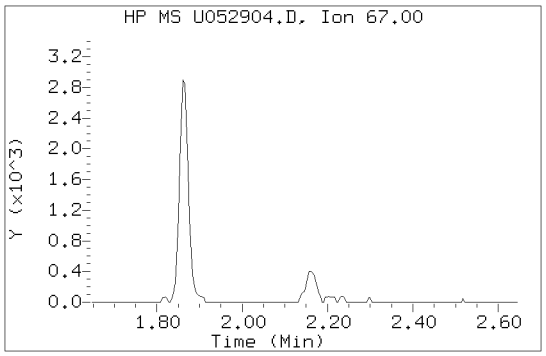
BEFORE

MASS
67
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



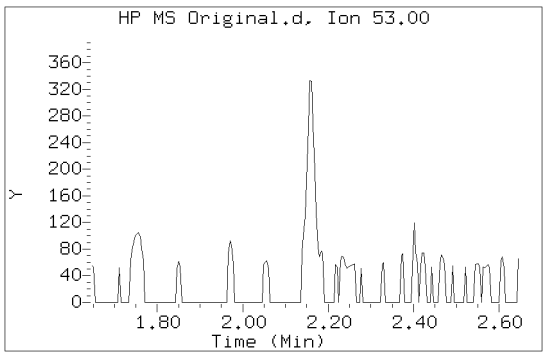
AFTER

MASS
67
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



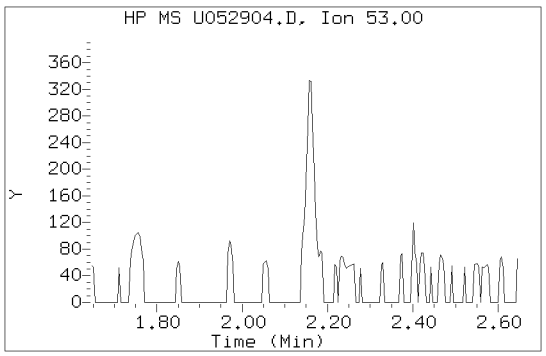
BEFORE

MASS
53
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



AFTER

MASS
53
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid

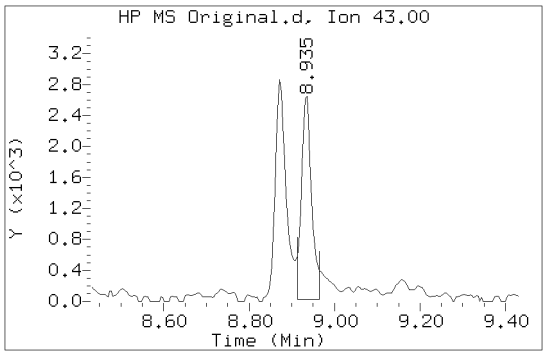


n-Amyl acetate (628-63-7)

Reason Code:

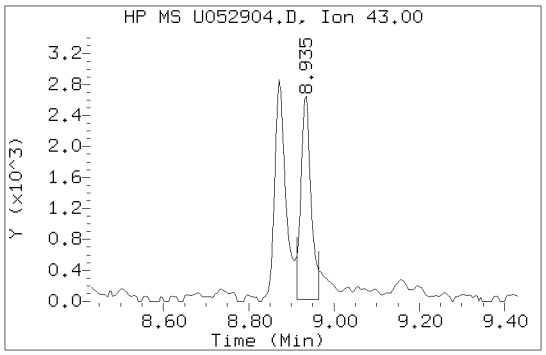
BEFORE

MASS
43
AREA
4502
HEIGHT
2621
06-Jun-2024
17:10
s
zaid



AFTER

MASS
43
AREA
4502
HEIGHT
2621
06-Jun-2024
17:10
s
zaid



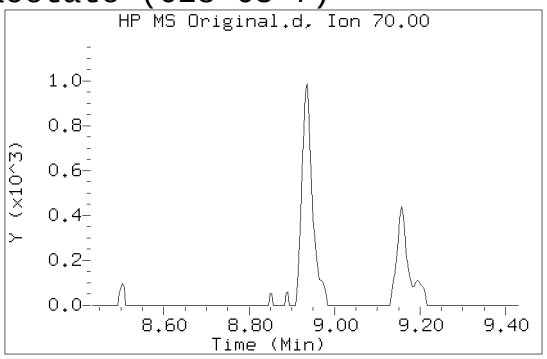
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052904.D
Inj Date : 29-MAY-2024 11:22
InstruID : VOA9.i
LabSampID : VSTD001

n-Amyl acetate (628-63-7)

Reason Code:

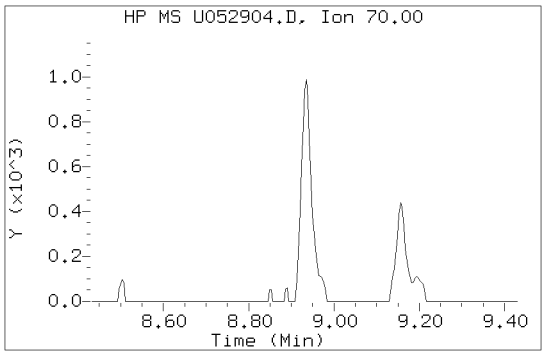
BEFORE

MASS
70
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



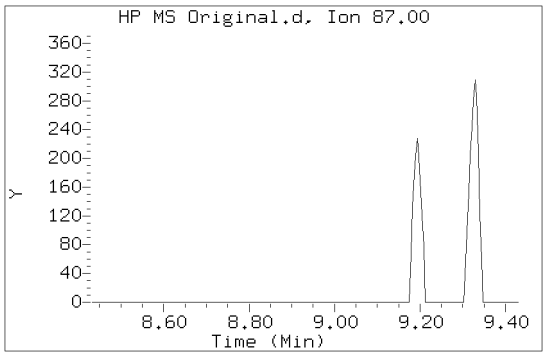
AFTER

MASS
70
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



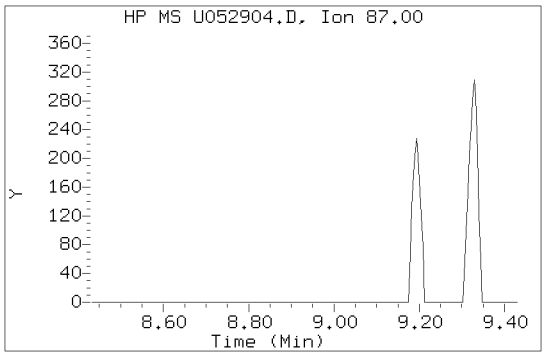
BEFORE

MASS
87
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



AFTER

MASS
87
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid

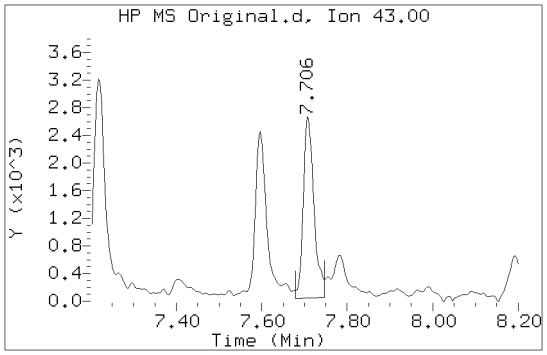


n-Butyl acetate (123-86-4)

Reason Code:

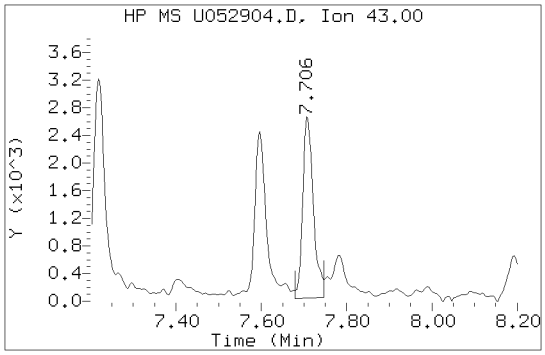
BEFORE

MASS
43
AREA
4706
HEIGHT
2627
06-Jun-2024
17:10
s
zaid



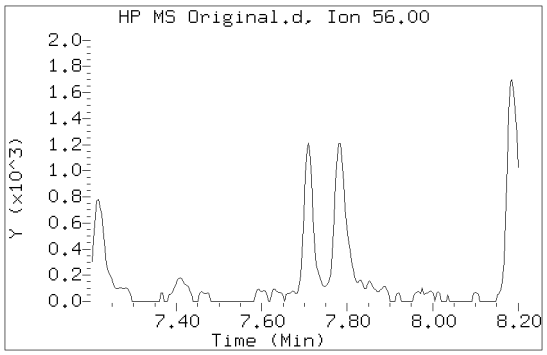
AFTER

MASS
43
AREA
4706
HEIGHT
2627
06-Jun-2024
17:10
s
zaid



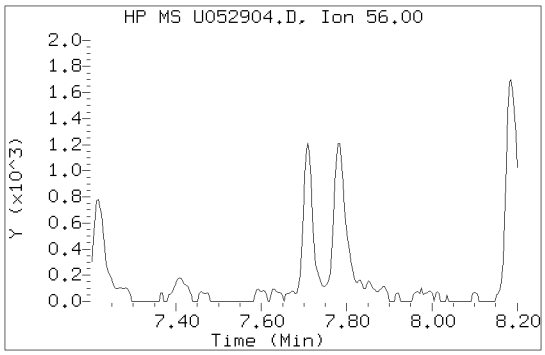
BEFORE

MASS
56
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



AFTER

MASS
56
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



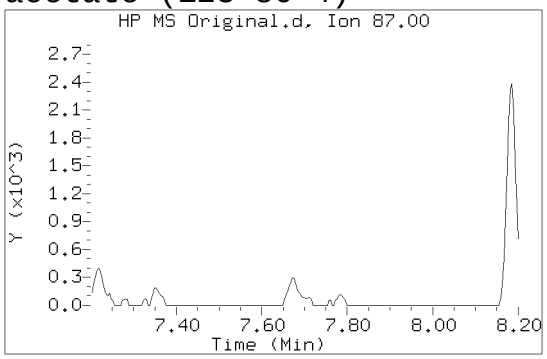
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Inj Date : 29-MAY-2024 11:22
InstruID : VOA9.i
LabSampID : VSTD001

n-Butyl acetate (123-86-4)

Reason Code:

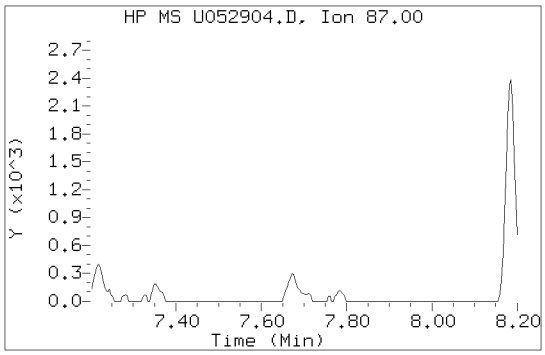
BEFORE

MASS
87
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



AFTER

MASS
87
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid

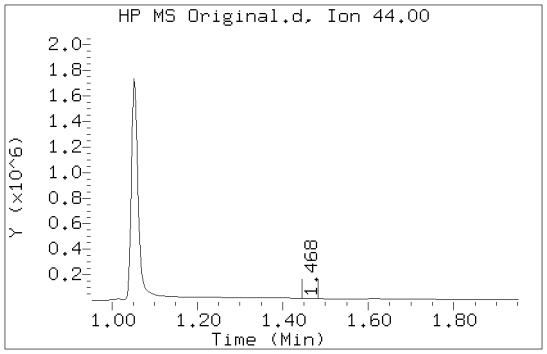


Acetaldehyde (75-07-0)

Reason Code:

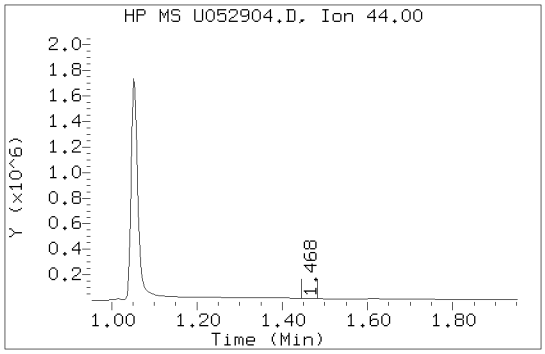
BEFORE

MASS
44
AREA
3248
HEIGHT
3044
06-Jun-2024
17:10
s
zaid



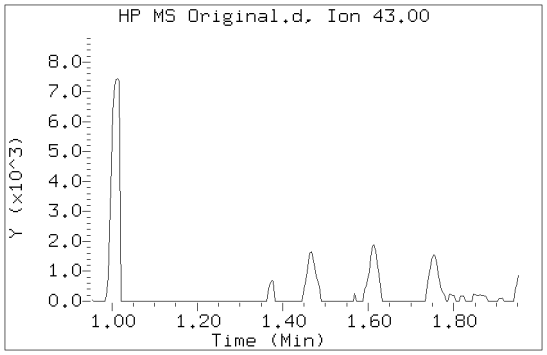
AFTER

MASS
44
AREA
3248
HEIGHT
3044
06-Jun-2024
17:10
s
zaid



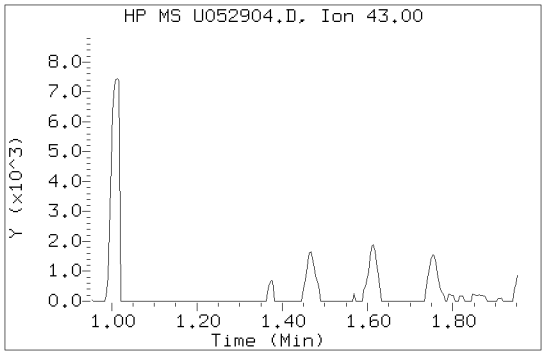
BEFORE

MASS
43
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



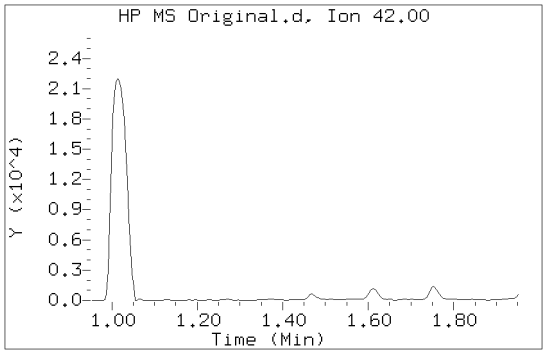
AFTER

MASS
43
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



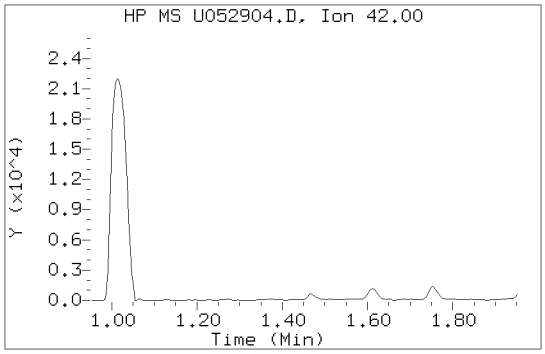
BEFORE

MASS
42
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



AFTER

MASS
42
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid

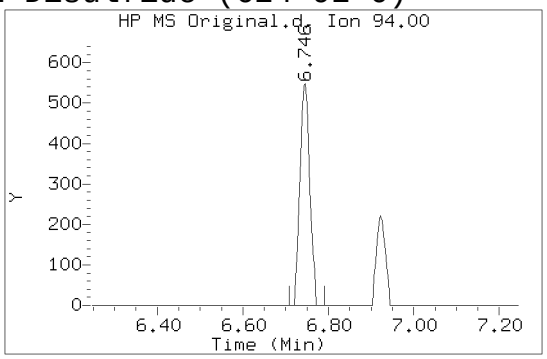


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InstruID : VOA9.i
LabSampID : VSTD001

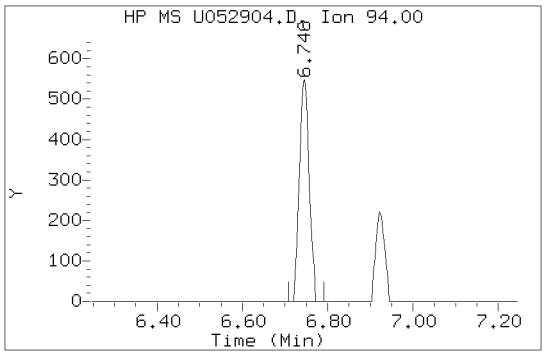
Dimethyl Disulfide (624-92-0)

Reason Code:

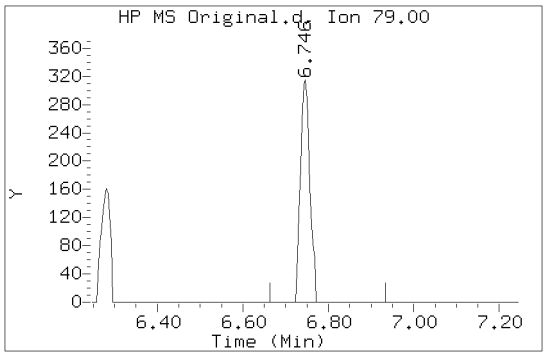
BEFORE
MASS
94
AREA
895
HEIGHT
548
06-Jun-2024
17:10
s
zaid



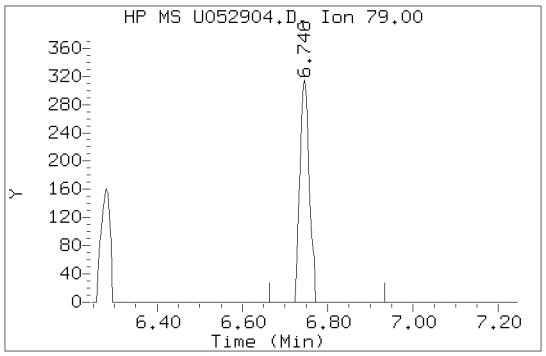
AFTER
MASS
94
AREA
895
HEIGHT
548
06-Jun-2024
17:10
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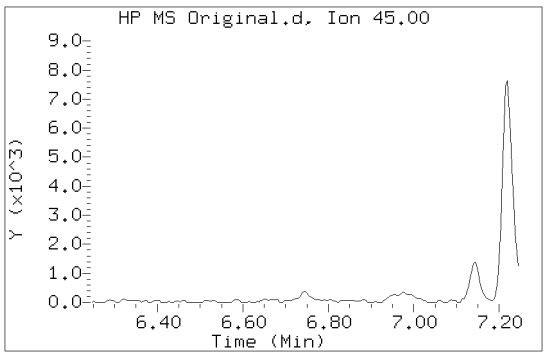
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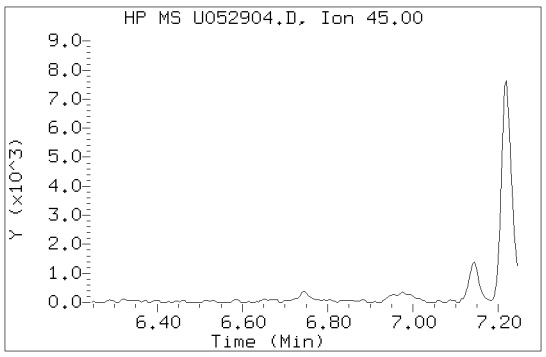
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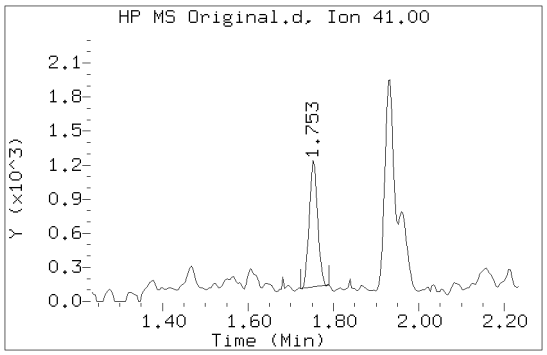
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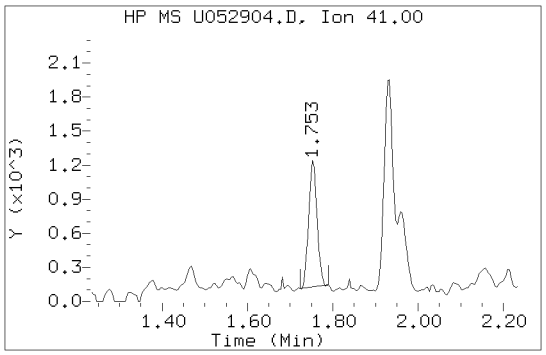
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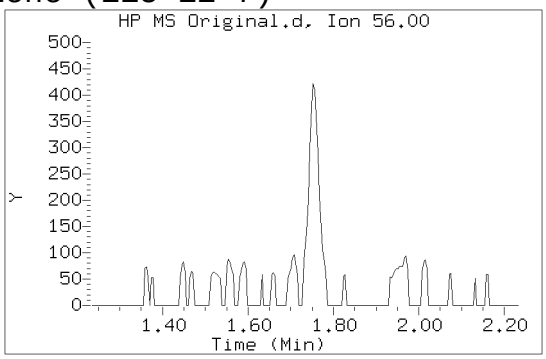
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Isobutylene (115-11-7)

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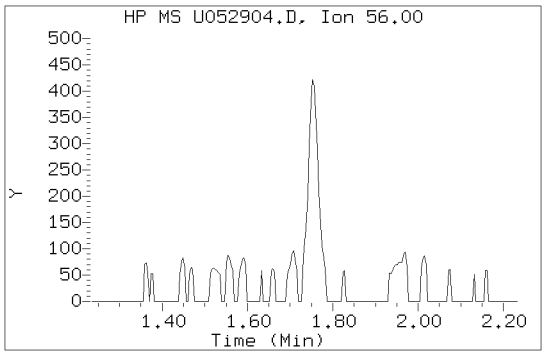
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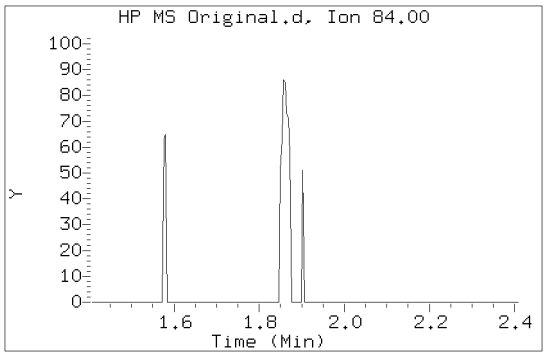
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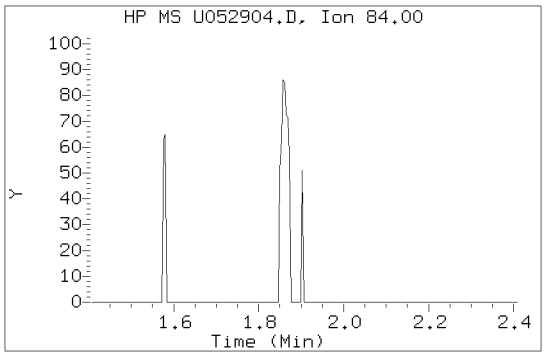
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AFTER

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Data File: \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052905.D Page 1
Report Date: 07-Jun-2024 10:54

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052905.D
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Inj Date : 29-MAY-2024 11:43
Operator : FT Inst ID: VOA9.i
Smp Info : VSTD002;VSTD002;1;4
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240529.b\8260C.m
Meth Date : 07-Jun-2024 10:14 r.patel Quant Type: ISTD
Cal Date : 29-MAY-2024 11:43 Cal File: U052905.D
Als bottle: 5 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14

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	4.811	4.811	(1.000)	285725	50.0000	
2	Dichlorodifluoromethane	85	1.156	1.156	(0.240)	2191	2.00000	2.05(M)
3	Chloromethane	50	1.288	1.288	(0.268)	12469	2.00000	2.59
4	Propionitrile	54	4.339	4.339	(0.902)	9364	20.0000	24.02(a)
5	Vinyl Chloride	62	1.370	1.366	(0.285)	4666	2.00000	2.16(M)
6	Bromomethane	94	1.610	1.595	(0.335)	3722	2.00000	2.07
7	Chloroethane	64	1.689	1.681	(0.351)	3382	2.00000	1.99(M)
8	Trichlorofluoromethane	101	1.884	1.884	(0.392)	5303	2.00000	2.06
9	Acrolein	56	2.255	2.259	(0.469)	772	4.00000	4.84(aM)
10	Acetone	43	2.401	2.405	(0.499)	6842	4.00000	6.23
11	1,1-Dichloroethene	96	2.322	2.322	(0.483)	4074	2.00000	2.16
12	Isobutyl Alcohol	43	5.280	5.284	(1.097)	15290	40.0000	36.07(a)
13	Acetonitrile	39	2.663	2.663	(0.554)	4978	20.0000	21.47(a)
14	Allyl Chloride	41	2.663	2.667	(0.554)	14793	2.00000	2.48(a)
15	Iodomethane	142	2.461	2.457	(0.512)	1323	4.00000	4.19(T)
16	Acrylonitrile	53	3.061	3.061	(0.636)	4999	4.00000	5.30
17	Methylene Chloride	84	2.787	2.783	(0.579)	7689	2.00000	2.25
18	Methyl tert-butyl ether	73	3.072	3.076	(0.639)	14737	2.00000	2.36
19	Carbon Disulfide	76	2.510	2.510	(0.522)	21847	4.00000	4.13
20	trans-1,2-Dichloroethene	96	3.050	3.050	(0.634)	4959	2.00000	2.32
21	Vinyl Acetate	43	4.339	4.339	(0.902)	5050	4.00000	4.01(M)

22 1,1-Dichloroethane	63	3.503	3.507 (0.728)	9371	2.00000	2.29
23 Chloroprene	53	3.601	3.601 (0.748)	6452	2.00000	2.15(a)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
24	2-Butanone	43	4.264	4.260	(0.886)	5834	4.00000	4.56
25	Methacrylonitrile	41	4.493	4.489	(0.934)	3297	2.00000	2.36(a)
26	2,2-Dichloropropane	77	4.174	4.174	(0.868)	5609	2.00000	2.08
27	cis-1,2-Dichloroethene	96	4.189	4.189	(0.871)	6111	2.00000	2.32
28	Chloroform	83	4.568	4.568	(0.949)	9851	2.00000	2.41
29	Bromochloromethane	128	4.463	4.463	(0.928)	3171	2.00000	2.87
$ 30	Dibromofluoromethane	113	4.744	4.744	(0.986)	5220	2.00000	2.42
31	1,1,1-Trichloroethane	97	4.733	4.736	(0.984)	5968	2.00000	2.08
32	1,1-Dichloropropene	75	4.916	4.916	(0.886)	6136	2.00000	2.02
33	1,2-Dichloroethane	62	5.171	5.171	(0.932)	8149	2.00000	3.18(M)
34	Carbon Tetrachloride	117	4.901	4.905	(0.884)	4139	2.00000	1.74(M)
$ 35	1,2-Dichloroethane-d4	65	5.093	5.093	(1.058)	6748	2.00000	3.47
* 36	1,4-Difluorobenzene	114	5.546	5.550	(1.000)	418472	50.0000	
37	Benzene	78	5.134	5.134	(0.926)	22729	2.00000	2.30
38	Trichloroethene	130	5.786	5.786	(1.043)	5303	2.00000	2.18(a)
39	Bromodichloromethane	83	6.273	6.277	(1.131)	5550	2.00000	2.09(aM)
40	Methyl Methacrylate	41	5.831	5.827	(1.212)	3031	2.00000	3.43(a)
41	2-Chloroethylvinyl ether	63	6.577	6.573	(1.186)	2568	4.00000	6.25
42	1,2-Dichloropropane	63	6.007	6.007	(1.083)	6290	2.00000	2.41(aM)
43	2-Nitropropane	43	6.506	6.506	(1.352)	922	2.00000	3.67(aM)
44	Dibromomethane	93	6.116	6.116	(1.103)	3447	2.00000	2.28(a)
45	4-Methyl-2-Pentanone	43	6.851	6.851	(0.837)	11033	4.00000	4.89(a)
46	cis-1,3-Dichloropropene	75	6.686	6.690	(1.205)	6163	2.00000	2.61(a)
* 47	Chlorobenzene-d5	117	8.181	8.185	(1.000)	371365	50.0000	
$ 48	Toluene-d8	98	6.918	6.918	(0.846)	20610	2.00000	3.10(a)
49	Ethyl Methacrylate	69	7.289	7.289	(1.314)	7149	2.00000	2.20(a)
50	Toluene	91	6.978	6.978	(0.853)	23051	2.00000	2.28(a)
51	trans-1,3-Dichloropropene	75	7.196	7.196	(1.297)	4599	2.00000	2.74(a)
52	2-Hexanone	43	7.593	7.589	(0.928)	6895	4.00000	5.96(M)
53	1,1,2-Trichloroethane	83	7.353	7.353	(0.899)	4925	2.00000	2.44(a)
54	1,3-Dichloropropane	76	7.495	7.499	(0.916)	9750	2.00000	2.37(a)
55	Dibromochloromethane	129	7.690	7.690	(0.940)	3797	2.00000	2.66(a)
56	Tetrachloroethene	164	7.454	7.454	(0.911)	3791	2.00000	2.15(a)
57	1,2-Dibromoethane	107	7.784	7.784	(0.951)	4959	2.00000	2.23(a)
58	1-Chlorohexane	55	8.189	8.196	(1.476)	6859	2.00000	3.07(a)
59	Chlorobenzene	112	8.208	8.208	(1.003)	15418	2.00000	2.40(a)
60	1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	4377	2.00000	2.14(a)
61	Ethylbenzene	106	8.305	8.305	(1.015)	7387	2.00000	2.51(a)
62	m,p-Xylenes	106	8.406	8.406	(1.027)	22381	4.00000	5.03(a)
63	o-Xylene	106	8.744	8.744	(1.069)	10205	2.00000	3.42(a)
64	Styrene	104	8.763	8.759	(1.071)	13304	2.00000	2.16(a)
66	Bromoform	173	8.916	8.916	(1.090)	2167	2.00000	3.05(Ta)
67	Isopropylbenzene	105	9.059	9.059	(1.107)	19220	2.00000	2.16(a)
68	1,1,2,2-Tetrachloroethane	83	9.325	9.329	(0.917)	7882	2.00000	2.40(a)
$ 69	4-Bromofluorobenzene	95	9.194	9.190	(1.124)	8164	2.00000	3.06(a)
* 70	1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	197283	50.0000	
71	1,2,3-Trichloropropane	75	9.359	9.362	(0.920)	7496	2.00000	2.43(aM)
72	trans-1,4-Dichloro-2-butene	53	9.377	9.377	(1.146)	1441	2.00000	2.27(a)
73	n-Propylbenzene	91	9.411	9.411	(0.926)	22673	2.00000	2.13(a)
74	Bromobenzene	156	9.317	9.317	(0.916)	6542	2.00000	2.41(a)
75	1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	18636	2.00000	2.34(a)
76	2-Chlorotoluene	91	9.482	9.482	(0.933)	16959	2.00000	2.28(a)

77 4-Chlorotoluene	91	9.576	9.576 (0.942)	17697	2.00000	2.31(a)
78 tert-Butylbenzene	119	9.835	9.835 (0.967)	12758	2.00000	2.13(aM)

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052905.D Page 3
Report Date: 07-Jun-2024 10:54

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
79	1,2,4-Trimethylbenzene	105	9.876	9.876	(0.971)	30038	2.00000	2.37(a)
81	sec-Butylbenzene	105	10.018	10.022	(0.985)	16983	2.00000	2.09(a)
82	p-Isopropyltoluene	119	10.146	10.146	(0.998)	14816	2.00000	2.09(a)
83	1,3-Dichlorobenzene	146	10.116	10.116	(0.995)	10883	2.00000	2.37(aM)
84	1,4-Dichlorobenzene	146	10.187	10.191	(1.002)	12375	2.00000	2.43(a)
86	Benzyl Chloride	91	10.311	10.311	(1.260)	7262	2.00000	3.61(a)
87	n-Butylbenzene	91	10.491	10.491	(1.032)	14661	2.00000	2.58(a)
88	1,2-Dichlorobenzene	146	10.506	10.502	(1.033)	11285	2.00000	2.37(aM)
89	1,2-Dibromo-3-Chloropropane	155	11.165	11.165	(1.098)	786	2.00000	2.76(a)
90	1,2,4-Trichlorobenzene	180	11.855	11.855	(1.166)	6993	2.00000	2.33(a)
91	Hexachlorobutadiene	225	11.994	11.998	(1.180)	2656	2.00000	2.21(a)
92	Naphthalene	128	12.069	12.065	(1.187)	19031	2.00000	2.50(a)
93	1,2,3-Trichlorobenzene	180	12.268	12.268	(1.206)	6570	2.00000	2.35(a)
146	Methyl acetate	43	2.708	2.708	(0.563)	6657	2.00000	3.18(a)
138	Freon TF	101	2.322	2.326	(0.483)	2974	2.00000	2.33(a)
141	Cyclohexane	56	4.808	4.778	(0.999)	9727	2.00000	2.48(aM)
142	Tetrahydrofuran	42	4.541	4.542	(0.944)	2424	4.00000	4.07(a)
147	Methylcyclohexane	55	5.944	5.944	(1.072)	9698	2.00000	2.49(a)
135	1,4-Dioxane	88	6.168	6.168	(1.282)	1835	40.0000	48.49
132	n-Butanol	56	5.827	5.827	(1.211)	3416	40.0000	44.38(a)
136	n-Hexane	57	3.327	3.331	(0.691)	3412	2.00000	2.44(a)
139	Diethyl ether	59	2.135	2.139	(0.444)	4189	2.00000	2.25(a)
148	Tert-butyl alcohol	59	2.967	2.975	(0.617)	12205	40.0000	44.84
149	Isopropyl alcohol	45	2.558	2.570	(0.532)	9638	40.0000	49.60(T)
152	Amyl alcohol	42	7.402	7.398	(0.905)	3250	40.0000	59.14
156	Diisopropyl ether	45	3.616	3.619	(0.751)	16950	2.00000	2.32(Ta)
162	Butyl acrylate	55	8.736	8.733	(1.068)	8351	2.00000	2.98(a)
187	n-Amyl acetate	43	8.931	8.931	(1.092)	8608	2.00000	2.13(aM)
164	Dicyclopentadiene	66	10.198	10.198	(1.003)	19618	2.00000	1.93(a)
166	1,2,3-Trimethylbenzene	105	10.232	10.232	(1.006)	17012	2.00000	3.17(a)
167	Ethanol	45	2.075	2.086	(0.431)	1764	40.0000	44.78
172	tert-Butyl formate	59	5.239	5.250	(1.089)	10522	4.00000	4.66(a)
173	3,3-Dimethyl-1-butanol	57	7.780	7.784	(0.951)	12619	40.0000	48.81(M)
174	tert-Amyl methyl ether	73	5.284	5.284	(1.098)	15149	2.00000	2.26(a)
175	tert-Butyl ethyl ether	59	4.043	4.047	(0.840)	15172	2.00000	2.32(a)
176	tert-Amyl alcohol	59	5.239	5.250	(1.089)	10522	40.0000	46.08
151	4-Methyl-2-pentanol	45	7.214	7.222	(1.301)	29478	40.0000	56.62
140	1,3-Butadiene	54	1.393	1.396	(0.290)	2130	2.00000	2.01(a)
182	Epichlorohydrin	57	6.630	6.630	(1.195)	1272	8.00000	10.41(M)
M 94	1,2-Dichloroethylene (total)	96				11070	4.00000	(a)
130	Ethyl Acetate	43	4.339	4.339	(0.902)	6040	2.00000	2.29(a)
131	Methyl Acrylate	55	4.369	4.365	(0.908)	7361	2.00000	2.66(a)
189	n-Butyl acetate	43	7.705	7.702	(0.942)	8434	2.00000	2.16(a)
134	Cyclohexanone	55	9.152	9.152	(0.900)	6019	40.0000	64.26(a)
185	Isoprene	39	2.150	2.146	(0.447)	950	2.00000	2.77(a)
188	Isopropyl acetate	43	5.280	5.284	(0.952)	15467	2.00000	2.22(a)
150	Allyl alcohol	57	3.327	3.331	(0.691)	3412	40.0000	48.81
194	Acetaldehyde	44	1.453	1.453	(0.302)	4005	8.00000	8.06(M)
195	Methyl Amyl Ketone	43	8.871	8.868	(1.084)	10259	2.00000	2.26(a)
200	Dimethyl Disulfide	94	6.742	6.746	(0.824)	1744	2.00000	5.88
202	Isobutylene	41	1.741	1.734	(0.362)	1892	2.00000	1.51(aM)
133	Ethyl Acrylate	55	5.944	5.944	(1.235)	9698	2.00000	2.43(a)

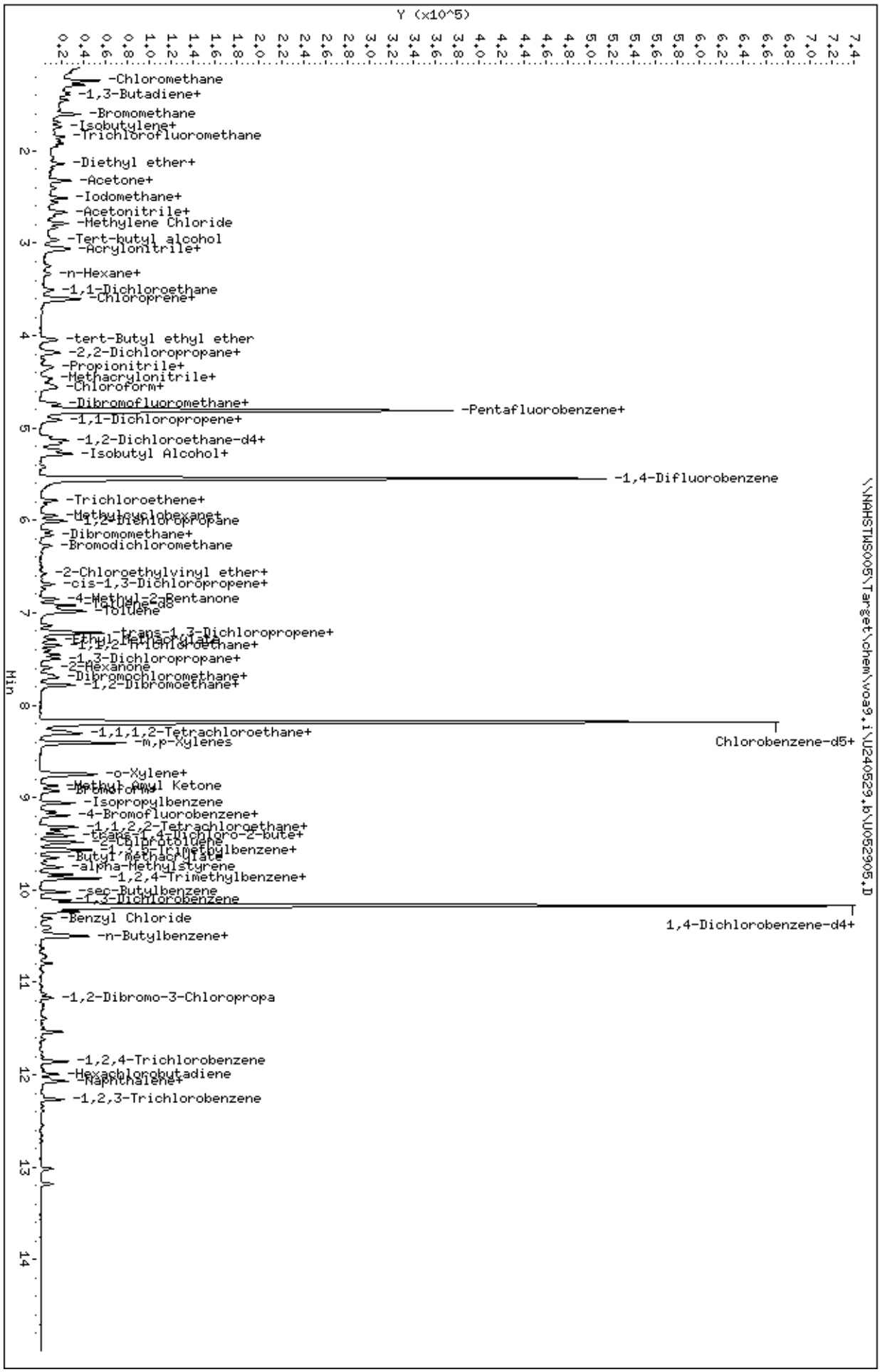
163 Butyl methacrylate	41	9.647	9.647 (0.949)	4545	2.00000	1.99(a)
159 Propylene oxide	43	2.191	2.191 (0.455)	1149	4.00000	6.04

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052905.D Page 4
Report Date: 07-Jun-2024 10:54

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
203 2-Ethylhexyl Acrylate	55	12.043	12.039	(1.184)	3471	2.00000	2.80(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.


Y (x10^5)
Min
-Chloromethane
-1,3-Butadiene+
-Bromomethane
-Isobutylene+
-Trichlorofluoromethane
-Diethyl ether+
-Acetone+
-Iodomethane+
-Acetonitrile+
-Methylene Chloride
-Tert-butyl alcohol
-Acrylonitrile+
-n-Hexane+
-1,1-Dichloroethane
-Chloroprene+
-tert-Butyl ethyl ether
-2,2-Dichloropropane+
-Propionitrile+
-Methacrylonitrile+
-Chloroform+
-Dibromofluoromethane+
-Pentafluorobenzene+
-1,1-Dichloropropene+
-1,2-Dichloroethane-d4+
-Isobutyl Alcohol+
-1,4-Difluorobenzene
-Trichloroethene+
-Methylcyclohexane+
-1,2-Dichloropropane
-Dibromomethane+
-Bromodichloromethane
-2-Chloroethylvinyl ether+
-cis-1,3-Dichloropropene+
-4-Methyl-2-Pentanone
-Toluene-d8
-Toluene
-trans-1,3-Dichloropropene+
-Ethyl Methacrylate
-1,1,2-Trichloroethane+
-1,3-Dichloropropane+
-2-Hexanone
-Dibromochloromethane+
-1,2-Dibromoethane+
-1,1,1,2-Tetrachloroethane+
Chlorobenzene-d5+
-m,p-Xylenes
-o-Xylene+
-Methyl Amyl Ketone
-Bromoform+
-Isopropylbenzene
-4-Bromofluorobenzene+
-1,1,2,2-Tetrachloroethane+
-trans-1,4-Dichloro-2-bute+
-2-Chlorotoluene
-1,3,5-Trimethylbenzene+
-Butyl Methacrylate
-alpha-Methylstyrene
-1,2,4-Trimethylbenzene+
-sec-Butylbenzene
-1,3-Dichlorobenzene
-Benzyl Chloride
1,4-Dichlorobenzene-d4+
-n-Butylbenzene+
-1,2-Dibromo-3-Chloropropa
-1,2,4-Trichlorobenzene
-Hexachlorobutadiene
-Naphthalene+
-1,2,3-Trichlorobenzene
\\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052905.D
Data File: \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052905.D
Date : 29-MAY-2024 11:43
Client ID: VSTD002
Sample Info: VSTD002;VSTD0021;4
Purge Volume: 5.0
Column phase: DB624
Instrument: VOA9.i
Operator: FT
Column diameter: 0.18
Page 1

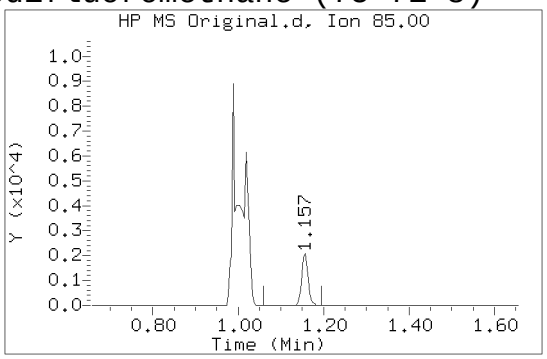
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Inj Date : 29-MAY-2024 11:43
InstruID : VOA9.i
LabSampID : VSTD002

Dichlorodifluoromethane (75-71-8)

Reason Code:

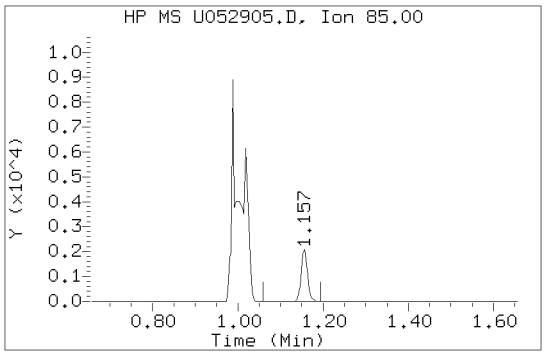
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2191
HEIGHT
2090
06-Jun-2024
17:10
s
zaid



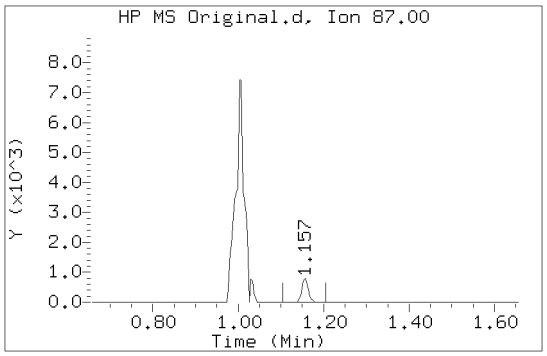
AFTER

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AREA
2191
HEIGHT
2090
07-Jun-2024
10:36



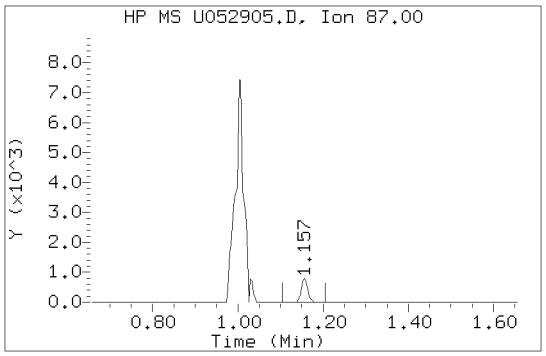
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830
HEIGHT
804
06-Jun-2024
17:10
s
zaid



AFTER

MASS
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AREA
830
HEIGHT
804
07-Jun-2024
10:36

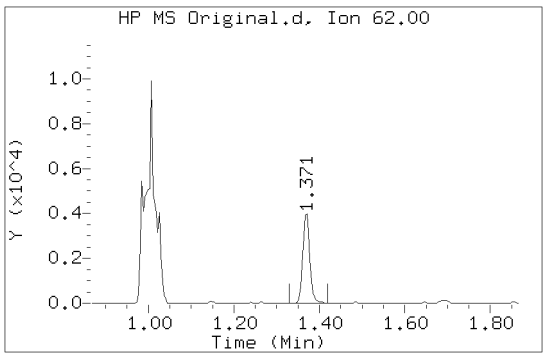


Vinyl Chloride (75-01-4)

Reason Code:

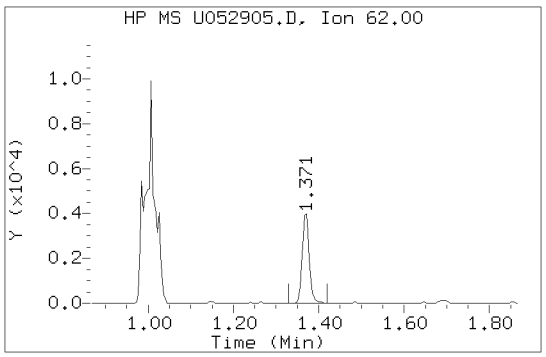
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06-Jun-2024
17:10
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zaid



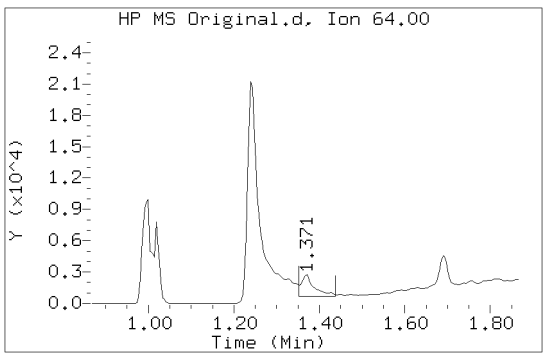
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HEIGHT
3990
07-Jun-2024
10:36



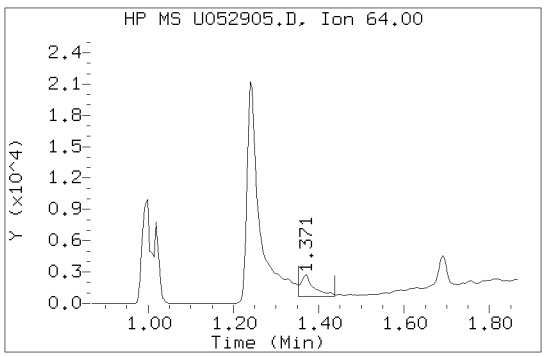
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HEIGHT
2036
06-Jun-2024
17:10
s
zaid



AFTER

MASS
64
AREA
4433
HEIGHT
2036
07-Jun-2024
10:36



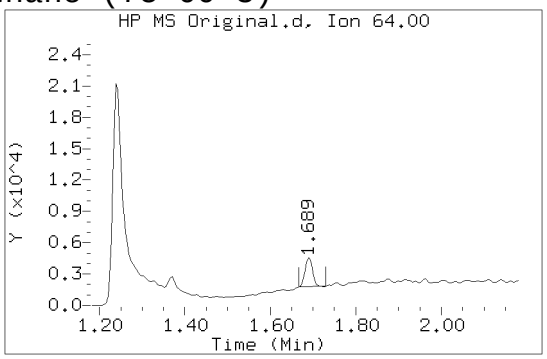
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Inj Date : 29-MAY-2024 11:43
InstruID : VOA9.i
LabSampID : VSTD002

Chloroethane (75-00-3)

Reason Code:

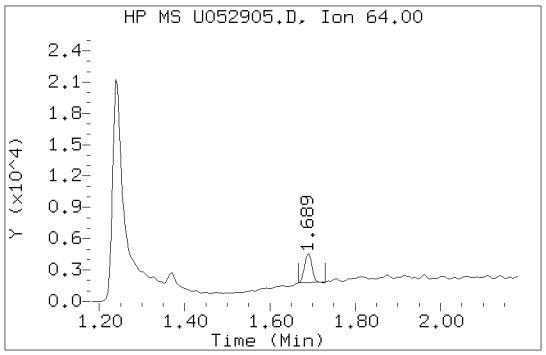
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HEIGHT
2732
06-Jun-2024
17:10
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zaid



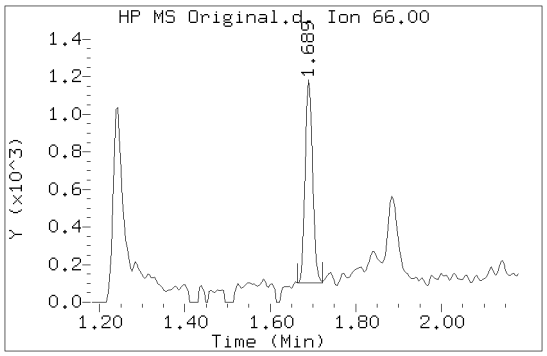
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HEIGHT
2732
07-Jun-2024
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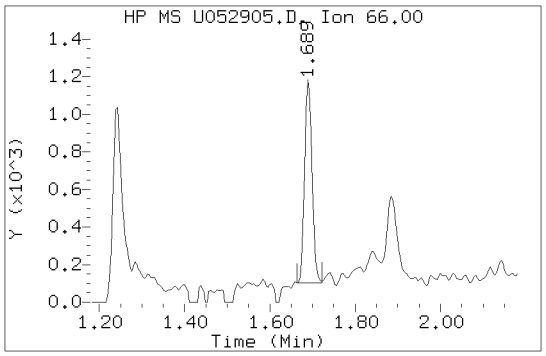
BEFORE

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AREA
1308
HEIGHT
1079
06-Jun-2024
17:10
s
zaid



AFTER

MASS
66
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1308
HEIGHT
1079
07-Jun-2024
10:36

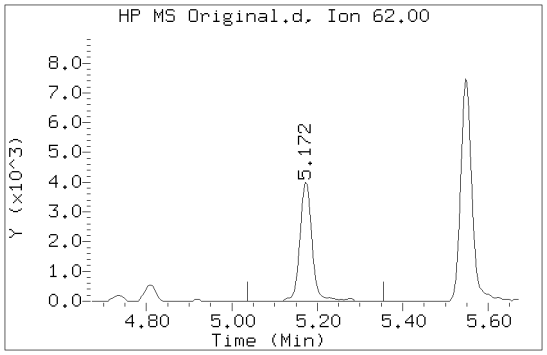


1,2-Dichloroethane (107-06-2)

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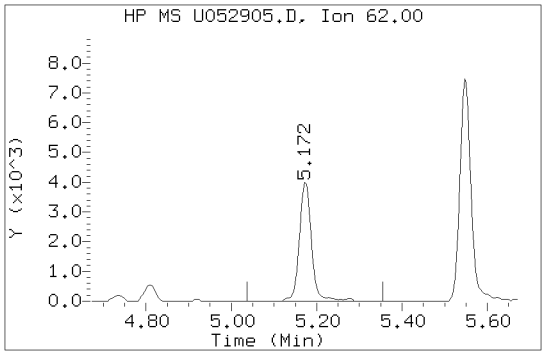
BEFORE

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AREA
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HEIGHT
3998
06-Jun-2024
17:10
s
zaid



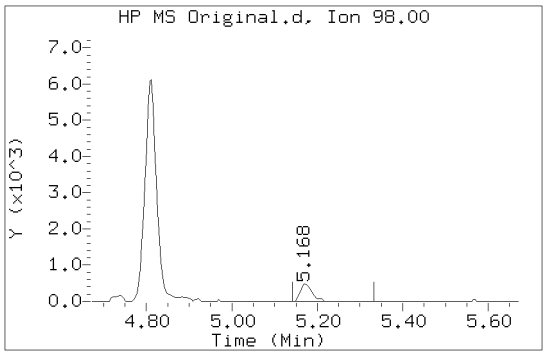
AFTER

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62
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HEIGHT
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07-Jun-2024
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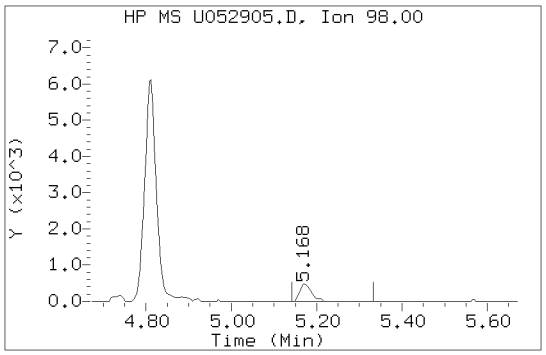
BEFORE

MASS
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AREA
919
HEIGHT
474
06-Jun-2024
17:10
s
zaid



AFTER

MASS
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AREA
919
HEIGHT
474
07-Jun-2024
10:36

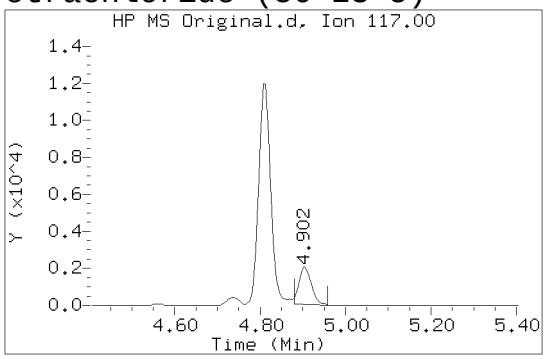


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Inj Date : 29-MAY-2024 11:43
InstruID : VOA9.i
LabSampID : VSTD002

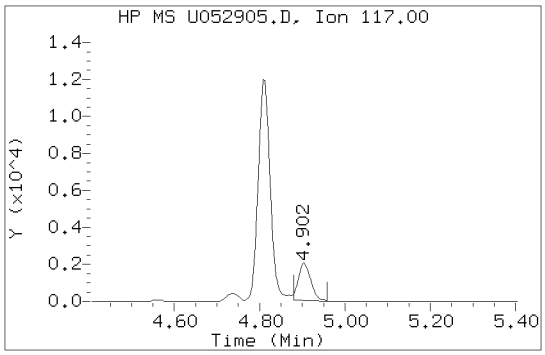
Carbon Tetrachloride (56-23-5)

Reason Code:

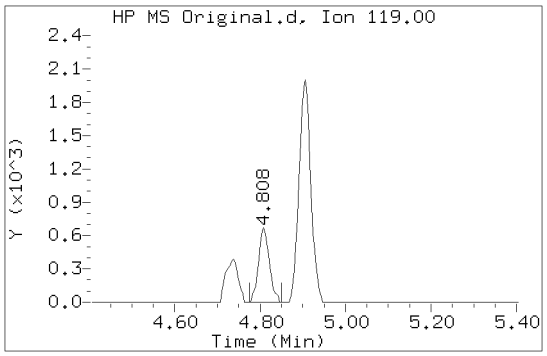
BEFORE
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AREA
4139
HEIGHT
2011
06-Jun-2024
17:10
s
zaid



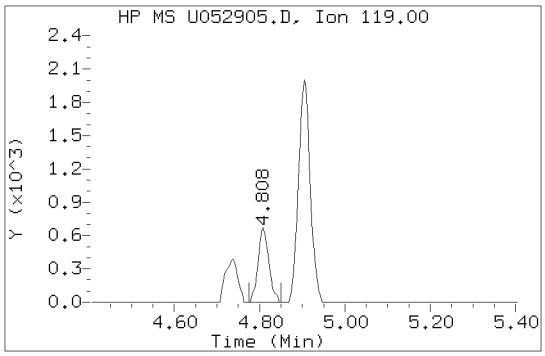
AFTER
MASS
117
AREA
4139
HEIGHT
2011
07-Jun-2024
10:36



BEFORE
MASS
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AREA
1178
HEIGHT
670
06-Jun-2024
17:10
s
zaid



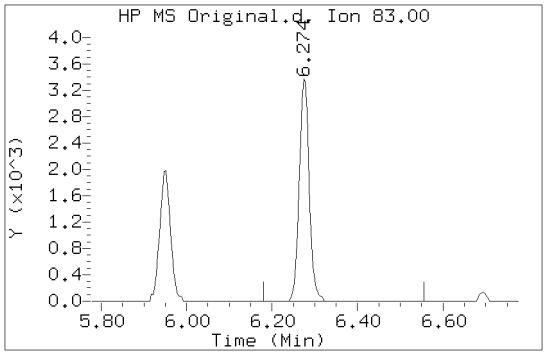
AFTER
MASS
119
AREA
1178
HEIGHT
670
07-Jun-2024
10:36



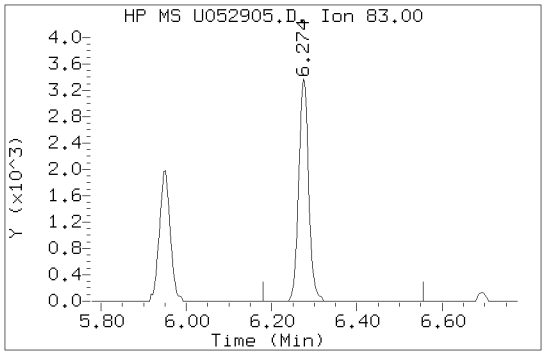
Bromodichloromethane (75-27-4)

Reason Code:

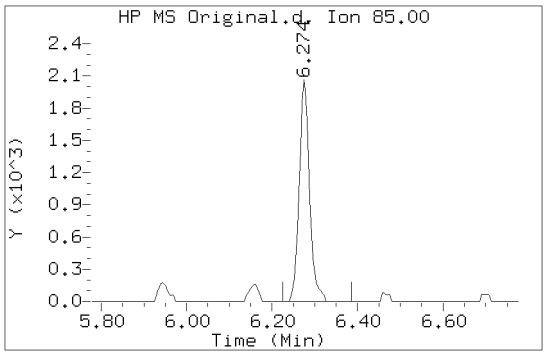
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HEIGHT
3372
06-Jun-2024
17:10
s
zaid



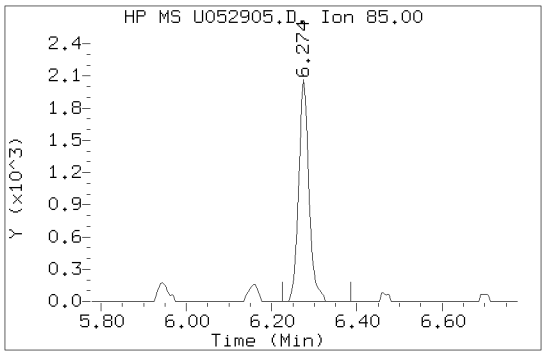
AFTER
MASS
83
AREA
5550
HEIGHT
3372
07-Jun-2024
10:36



BEFORE
MASS
85
AREA
3517
HEIGHT
2066
06-Jun-2024
17:10
s
zaid



AFTER
MASS
85
AREA
3517
HEIGHT
2066
07-Jun-2024
10:36

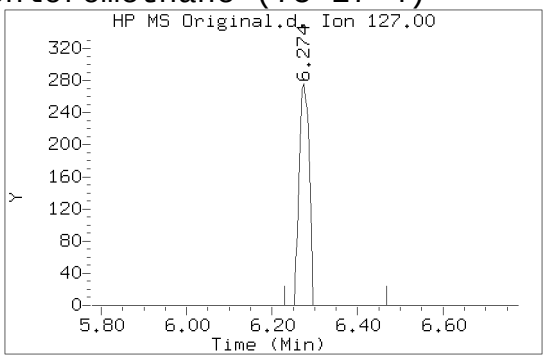


Data File : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052905.D
Inj Date : 29-MAY-2024 11:43
InstruID : VOA9.i
LabSampID : VSTD002

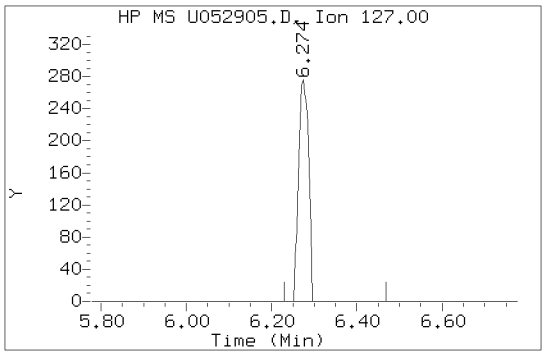
Bromodichloromethane (75-27-4)

Reason Code:

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06-Jun-2024
17:10
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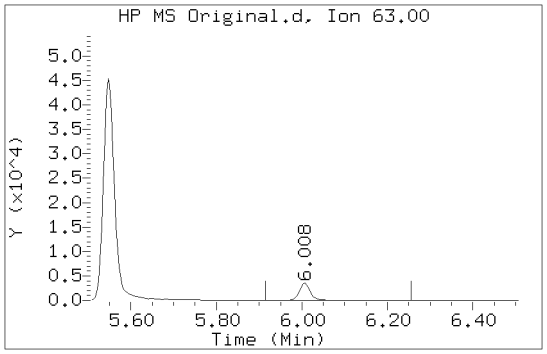
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AREA
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HEIGHT
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07-Jun-2024
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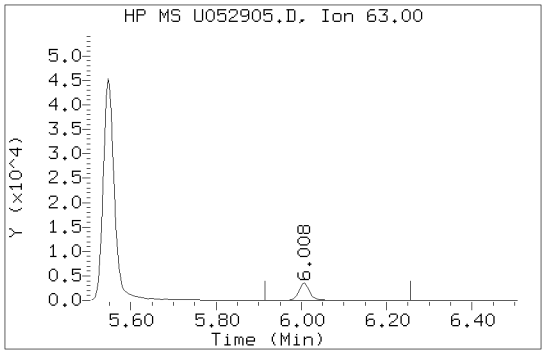
1,2-Dichloropropane (78-87-5)

Reason Code:

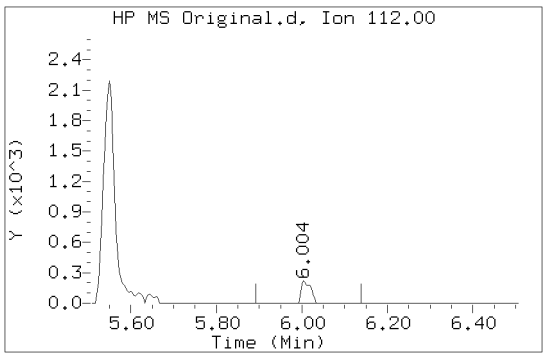
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HEIGHT
3505
06-Jun-2024
17:10
s
zaid



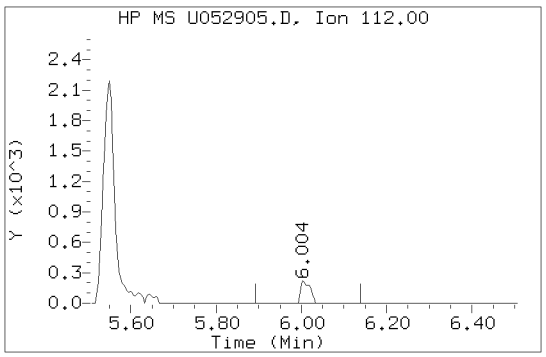
AFTER
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63
AREA
6290
HEIGHT
3505
07-Jun-2024
10:36



BEFORE
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AREA
345
HEIGHT
224
06-Jun-2024
17:10
s
zaid



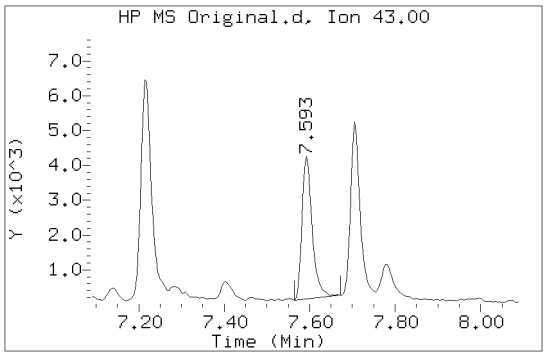
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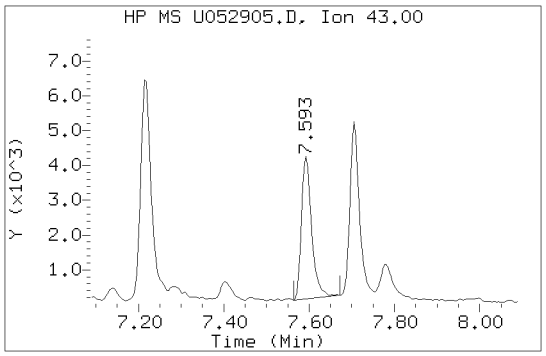
2-Hexanone (591-78-6)

Reason Code:

BEFORE
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43
AREA
6895
HEIGHT
4089
06-Jun-2024
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s
zaid



AFTER
MASS
43
AREA
6895
HEIGHT
4089
07-Jun-2024
10:36

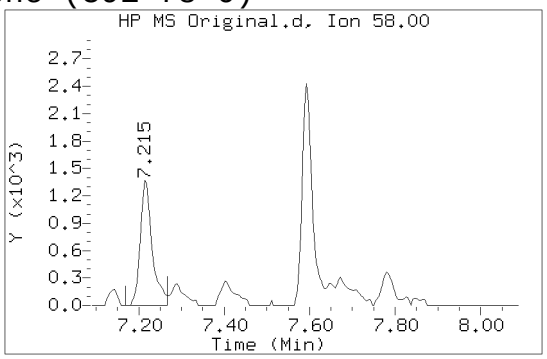


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Inj Date : 29-MAY-2024 11:43
InstruID : VOA9.i
LabSampID : VSTD002

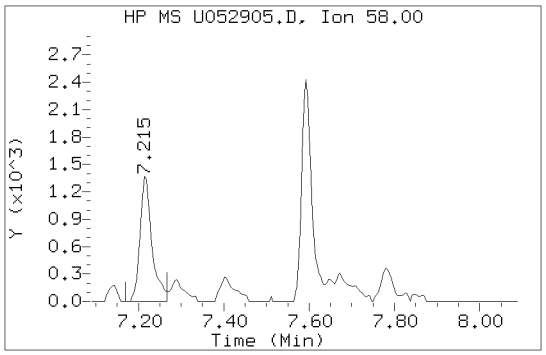
2-Hexanone (591-78-6)

Reason Code:

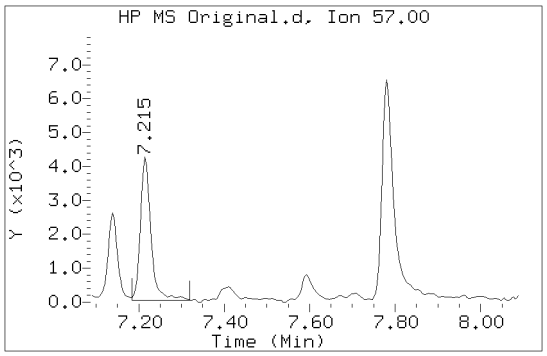
BEFORE
MASS
58
AREA
2669
HEIGHT
1369
06-Jun-2024
17:10
s
zaid



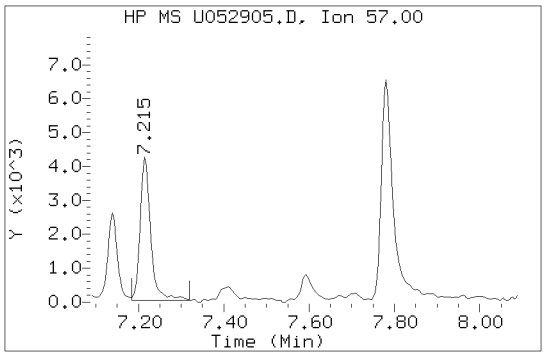
AFTER
MASS
58
AREA
2669
HEIGHT
1369
07-Jun-2024
10:36



BEFORE
MASS
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AREA
7224
HEIGHT
4221
06-Jun-2024
17:10
s
zaid



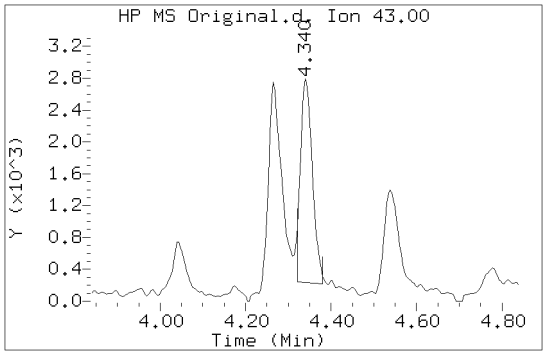
AFTER
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57
AREA
7224
HEIGHT
4221
07-Jun-2024
10:36



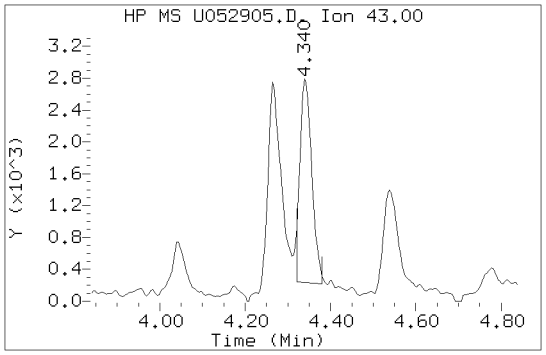
Vinyl Acetate (108-05-4)

Reason Code:

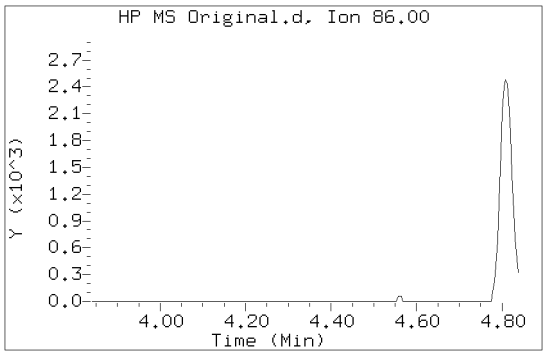
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MASS
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AREA
5050
HEIGHT
2552
06-Jun-2024
17:10
s
zaid



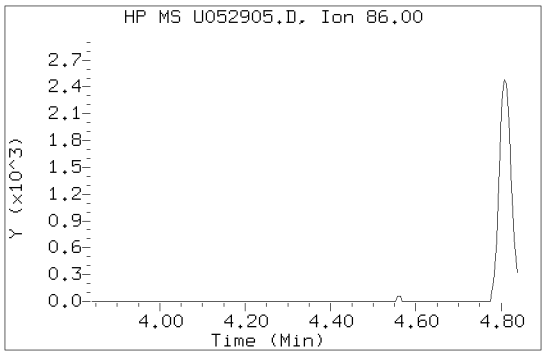
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MASS
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AREA
5050
HEIGHT
2552
07-Jun-2024
10:36



BEFORE
MASS
86
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



AFTER
MASS
86
AREA
0
HEIGHT
0
07-Jun-2024
10:36



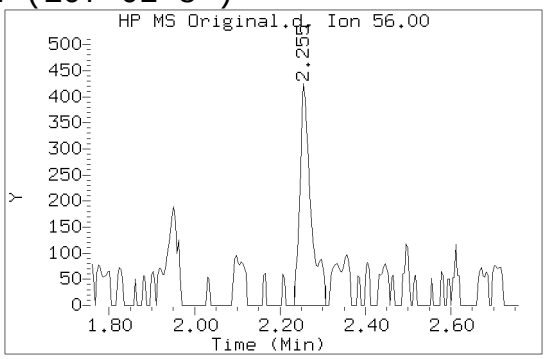
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Inj Date : 29-MAY-2024 11:43
InstruID : VOA9.i
LabSampID : VSTD002

Acrolein (107-02-8)

Reason Code:

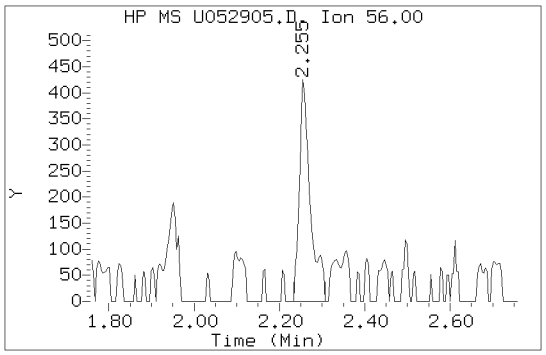
BEFORE

MASS
56
AREA
772
HEIGHT
425
06-Jun-2024
17:10
s
zaid



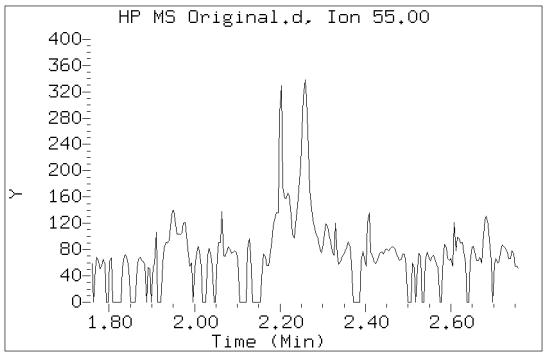
AFTER

MASS
56
AREA
772
HEIGHT
425
07-Jun-2024
10:36



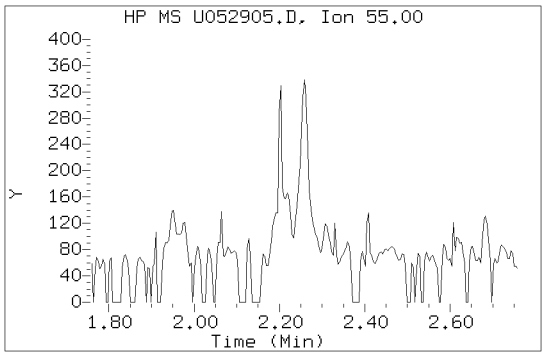
BEFORE

MASS
55
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



AFTER

MASS
55
AREA
0
HEIGHT
0
07-Jun-2024
10:36

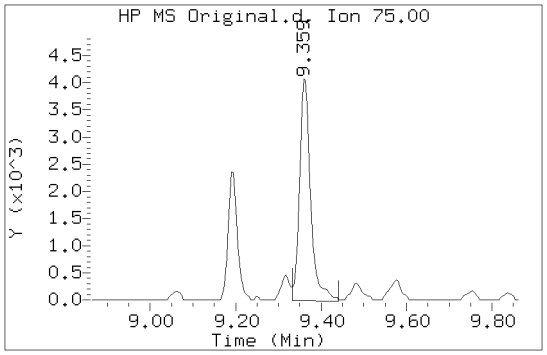


1,2,3-Trichloropropane (96-18-4)

Reason Code:

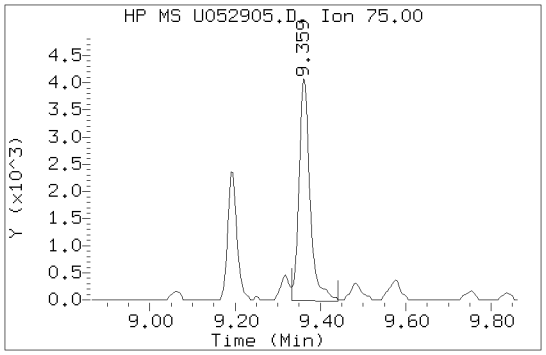
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7496
HEIGHT
4077
06-Jun-2024
17:10
s
zaid



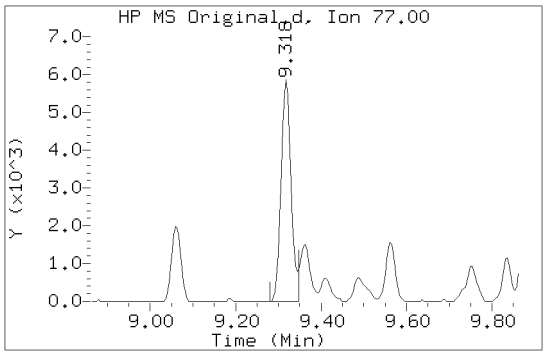
AFTER

MASS
75
AREA
7496
HEIGHT
4077
07-Jun-2024
10:36



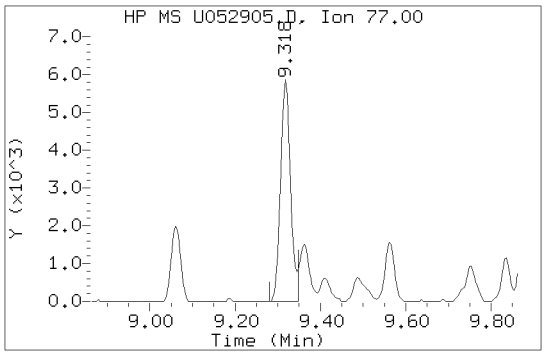
BEFORE

MASS
77
AREA
9657
HEIGHT
5868
06-Jun-2024
17:10
s
zaid



AFTER

MASS
77
AREA
9657
HEIGHT
5868
07-Jun-2024
10:36

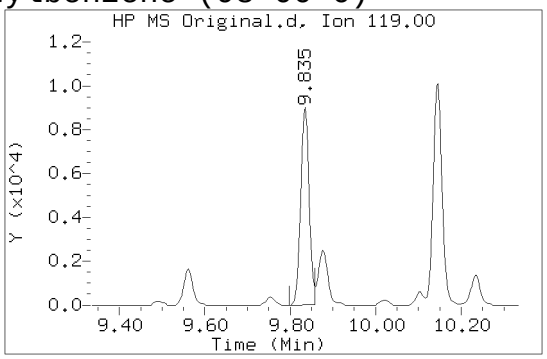


Data File : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052905.D
Inj Date : 29-MAY-2024 11:43
InstruID : VOA9.i
LabSampID : VSTD002

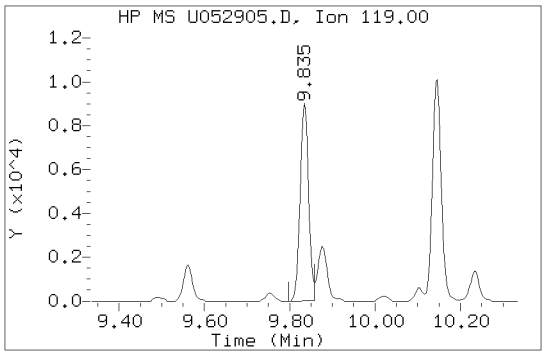
tert-Butylbenzene (98-06-6)

Reason Code:

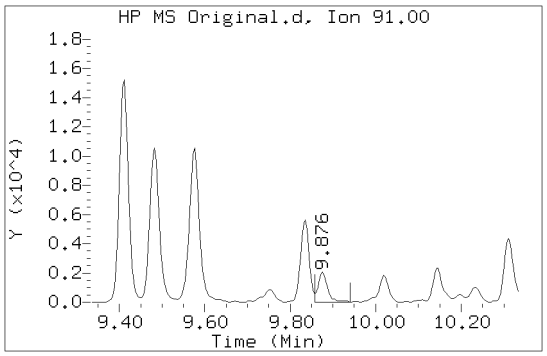
BEFORE
MASS
119
AREA
12758
HEIGHT
9033
06-Jun-2024
17:10
s
zaid



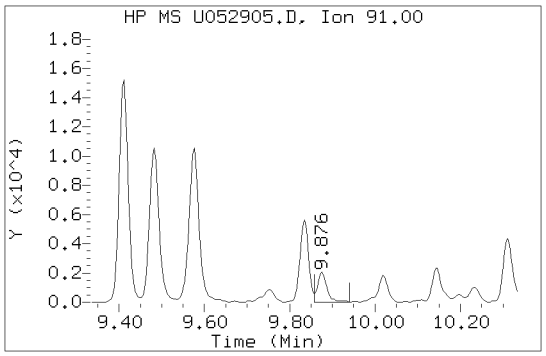
AFTER
MASS
119
AREA
12758
HEIGHT
9033
07-Jun-2024
10:36



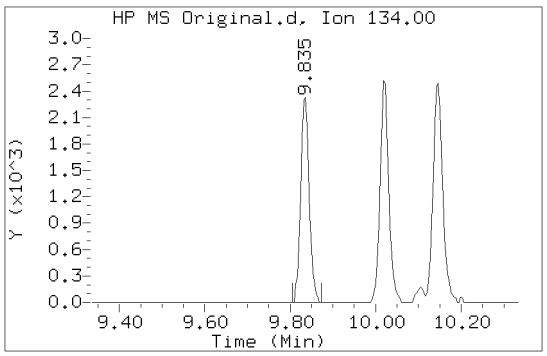
BEFORE
MASS
91
AREA
3225
HEIGHT
2074
06-Jun-2024
17:10
s
zaid



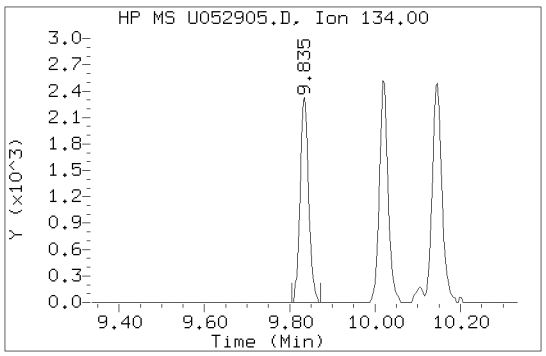
AFTER
MASS
91
AREA
3225
HEIGHT
2074
07-Jun-2024
10:36



BEFORE
MASS
134
AREA
3289
HEIGHT
2329
06-Jun-2024
17:10
s
zaid



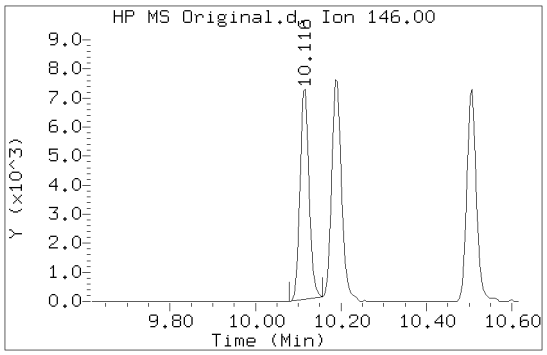
AFTER
MASS
134
AREA
3289
HEIGHT
2329
07-Jun-2024
10:36



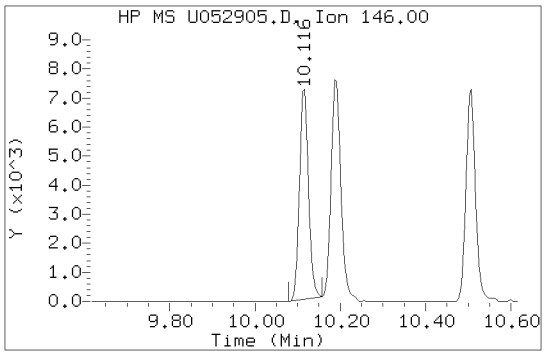
1,3-Dichlorobenzene (541-73-1)

Reason Code:

BEFORE
MASS
146
AREA
10883
HEIGHT
7221
06-Jun-2024
17:10
s
zaid



AFTER
MASS
146
AREA
10883
HEIGHT
7221
07-Jun-2024
10:36

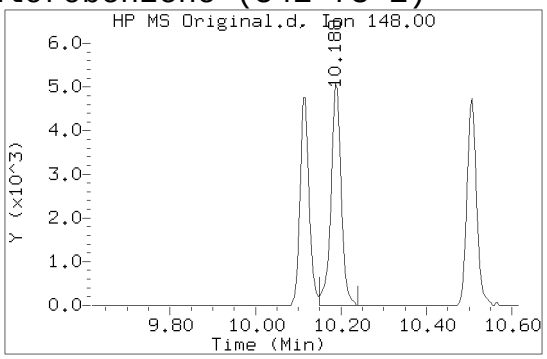


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Inj Date : 29-MAY-2024 11:43
InstruID : VOA9.i
LabSampID : VSTD002

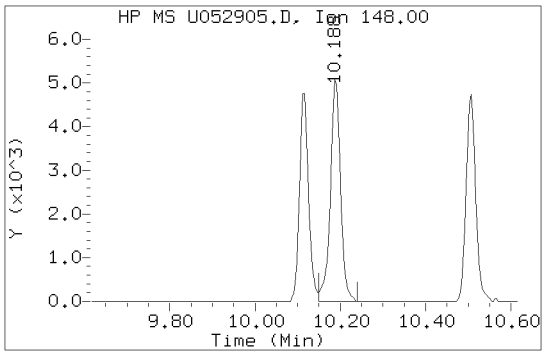
1,3-Dichlorobenzene (541-73-1)

Reason Code:

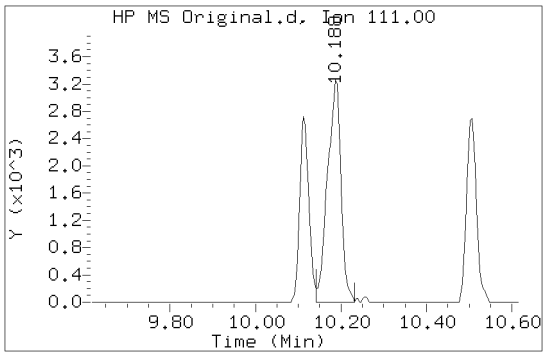
BEFORE
MASS
148
AREA
8420
HEIGHT
5076
06-Jun-2024
17:10
s
zaid



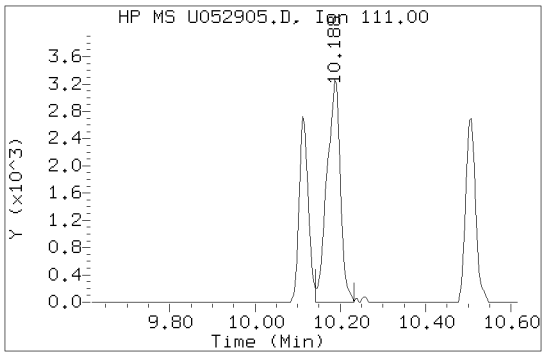
AFTER
MASS
148
AREA
8420
HEIGHT
5076
07-Jun-2024
10:36



BEFORE
MASS
111
AREA
7121
HEIGHT
3260
06-Jun-2024
17:10
s
zaid



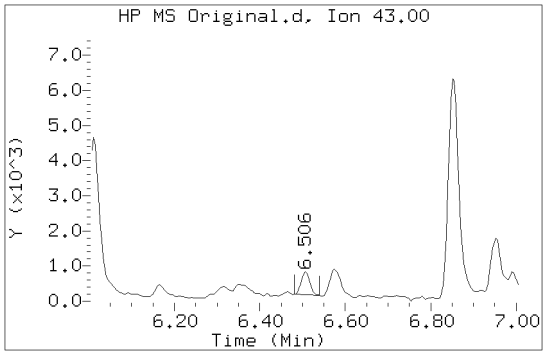
AFTER
MASS
111
AREA
7121
HEIGHT
3260
07-Jun-2024
10:36



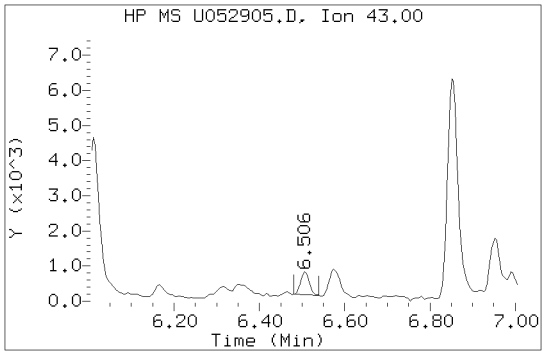
2-Nitropropane (79-46-9)

Reason Code:

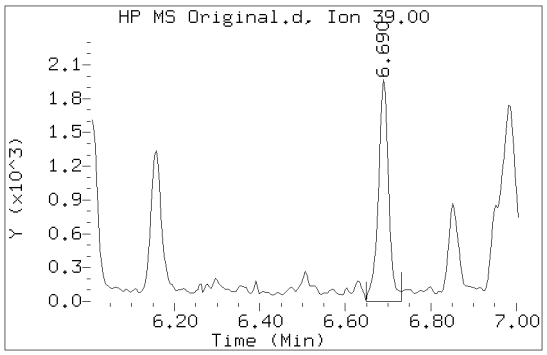
BEFORE
MASS
43
AREA
922
HEIGHT
660
06-Jun-2024
17:10
s
zaid



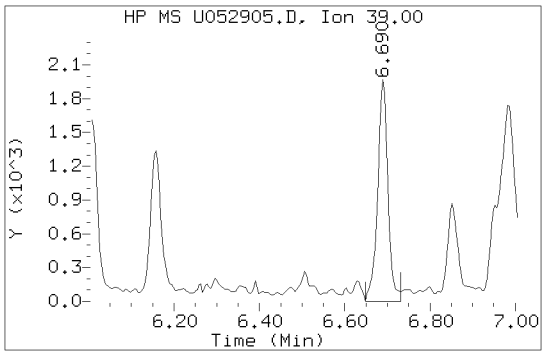
AFTER
MASS
43
AREA
922
HEIGHT
660
07-Jun-2024
10:36



BEFORE
MASS
39
AREA
3294
HEIGHT
1968
06-Jun-2024
17:10
s
zaid



AFTER
MASS
39
AREA
3294
HEIGHT
1968
07-Jun-2024
10:36

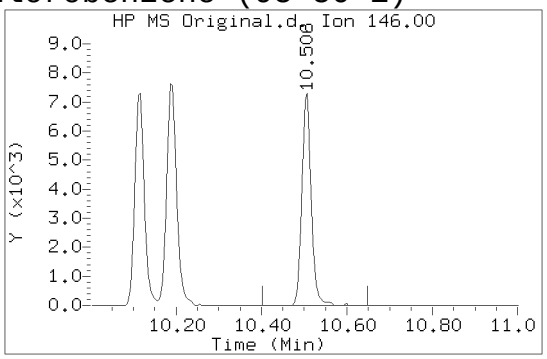


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Inj Date : 29-MAY-2024 11:43
InstruID : VOA9.i
LabSampID : VSTD002

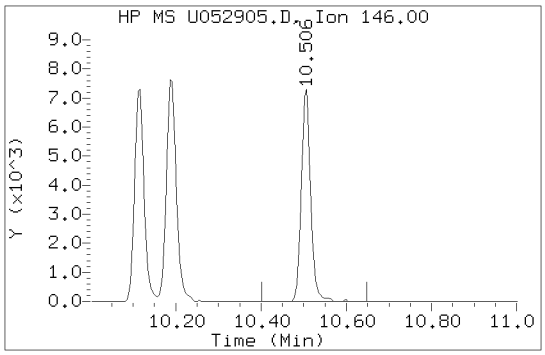
1,2-Dichlorobenzene (95-50-1)

Reason Code:

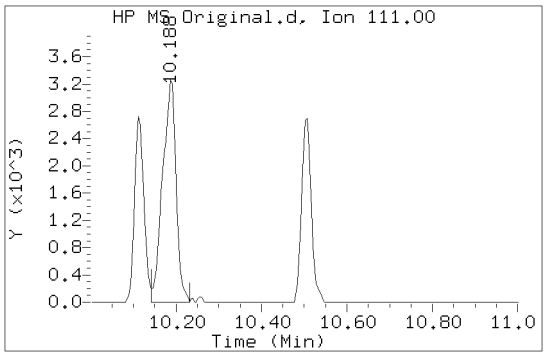
BEFORE
MASS
146
AREA
11285
HEIGHT
7311
06-Jun-2024
17:10
s
zaid



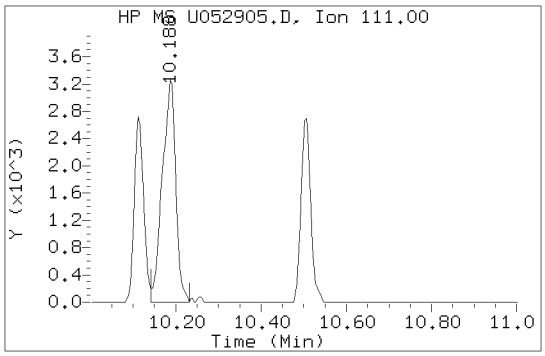
AFTER
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146
AREA
11285
HEIGHT
7311
07-Jun-2024
10:36



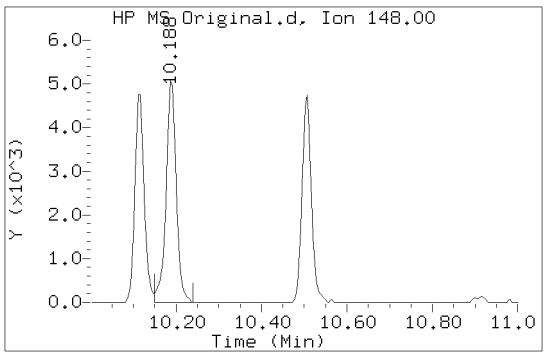
BEFORE
MASS
111
AREA
7121
HEIGHT
3260
06-Jun-2024
17:10
s
zaid



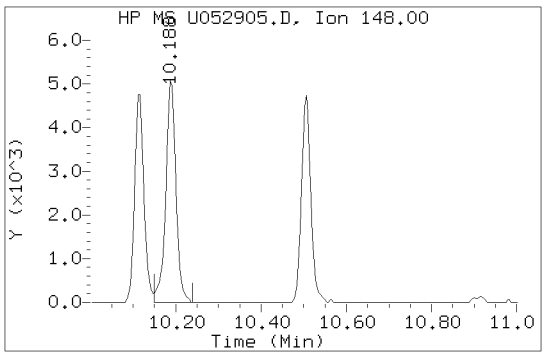
AFTER
MASS
111
AREA
7121
HEIGHT
3260
07-Jun-2024
10:36



BEFORE
MASS
148
AREA
8420
HEIGHT
5076
06-Jun-2024
17:10
s
zaid



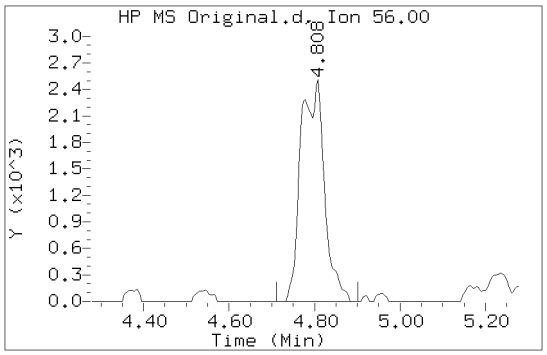
AFTER
MASS
148
AREA
8420
HEIGHT
5076
07-Jun-2024
10:36



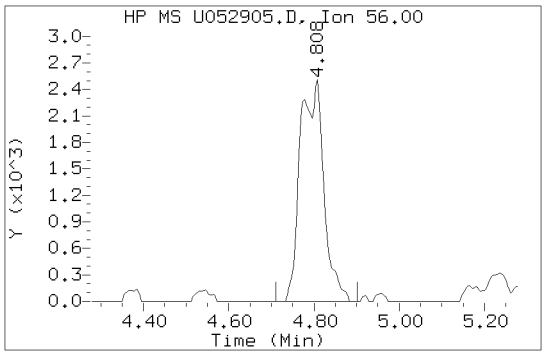
Cyclohexane (110-82-7)

Reason Code:

BEFORE
MASS
56
AREA
9727
HEIGHT
2510
06-Jun-2024
17:10
s
zaid



AFTER
MASS
56
AREA
9727
HEIGHT
2510
07-Jun-2024
10:36

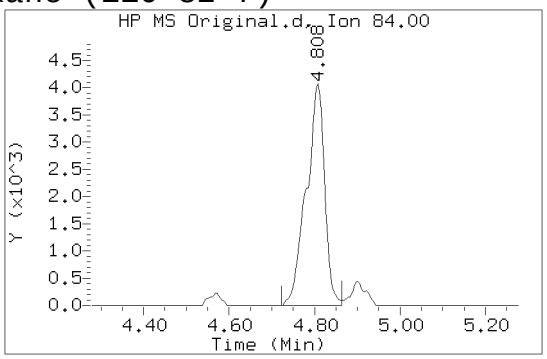


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Inj Date : 29-MAY-2024 11:43
InstruID : VOA9.i
LabSampID : VSTD002

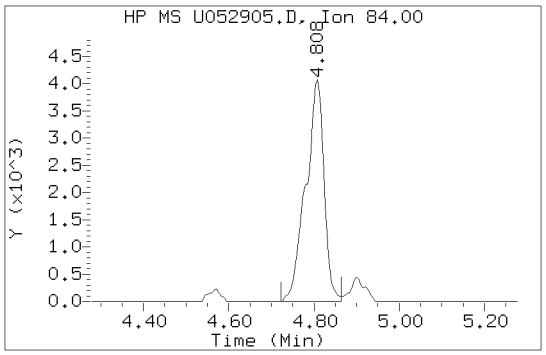
Cyclohexane (110-82-7)

Reason Code:

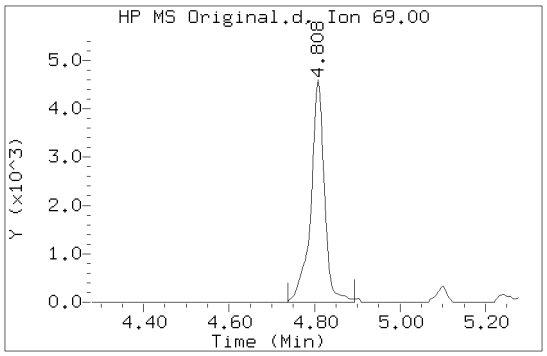
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AREA
12171
HEIGHT
4074
06-Jun-2024
17:10
s
zaid



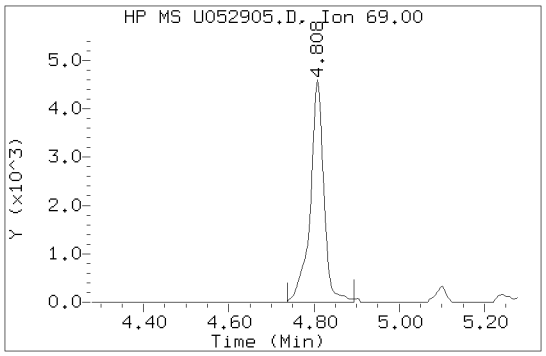
AFTER
MASS
84
AREA
12171
HEIGHT
4074
07-Jun-2024
10:36



BEFORE
MASS
69
AREA
10199
HEIGHT
4596
06-Jun-2024
17:10
s
zaid



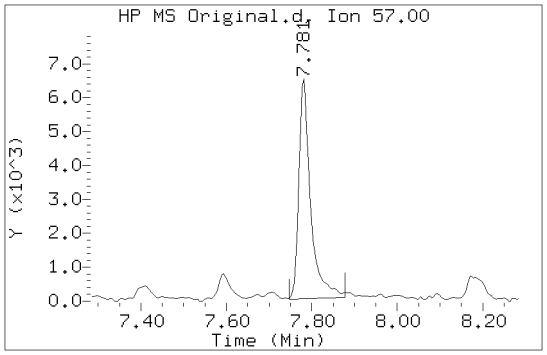
AFTER
MASS
69
AREA
10199
HEIGHT
4596
07-Jun-2024
10:36



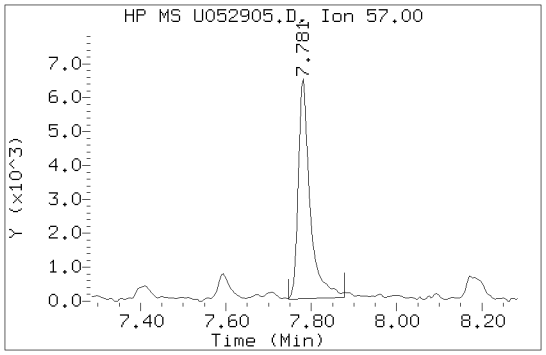
3,3-Dimethyl-1-butanol (624-95-3)

Reason Code:

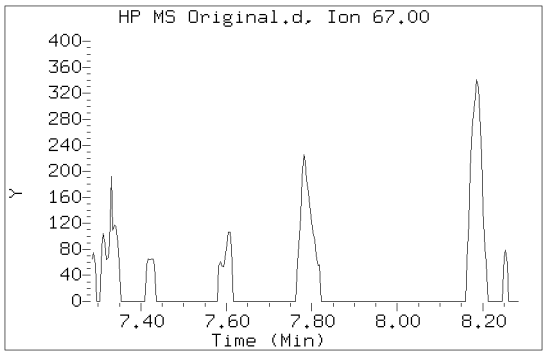
BEFORE
MASS
57
AREA
12619
HEIGHT
6478
06-Jun-2024
17:10
s
zaid



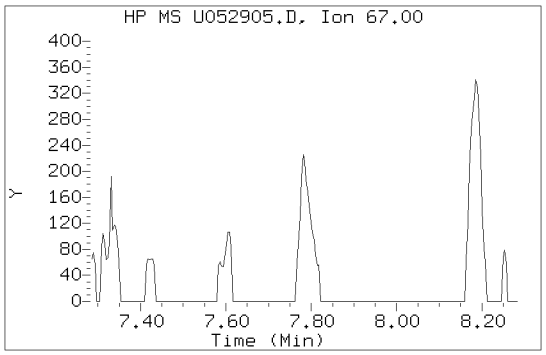
AFTER
MASS
57
AREA
12619
HEIGHT
6478
07-Jun-2024
10:36



BEFORE
MASS
67
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



AFTER
MASS
67
AREA
0
HEIGHT
0
07-Jun-2024
10:36

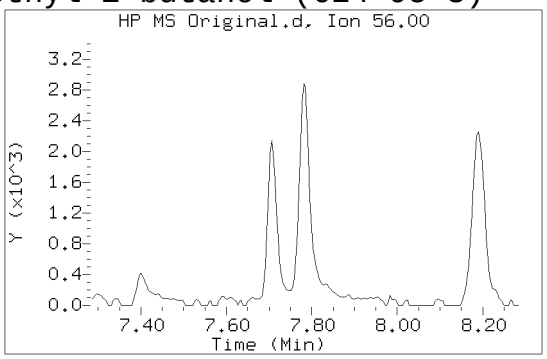


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Inj Date : 29-MAY-2024 11:43
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LabSampID : VSTD002

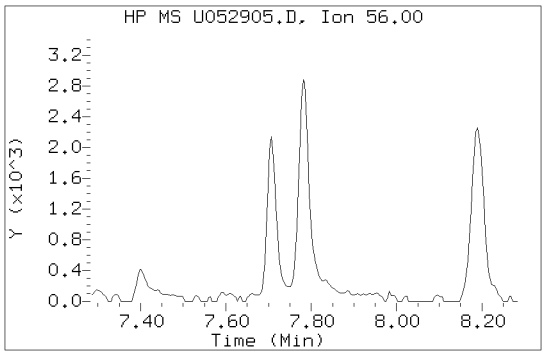
3,3-Dimethyl-1-butanol (624-95-3)

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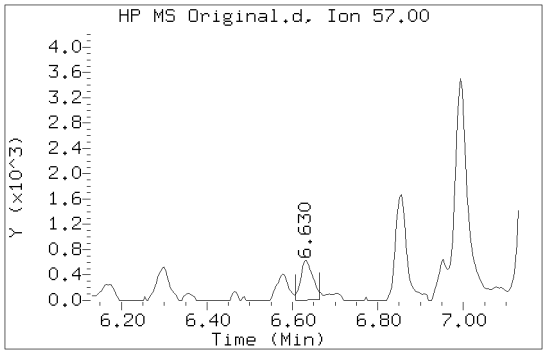
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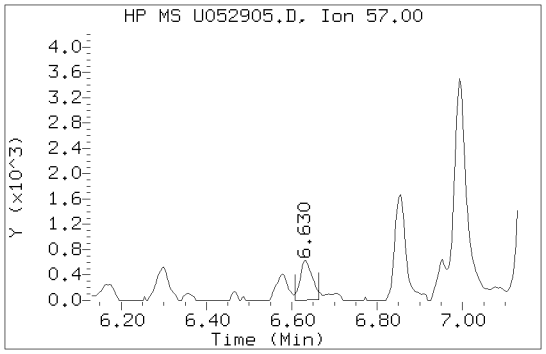
Epichlorohydrin (106-89-8)

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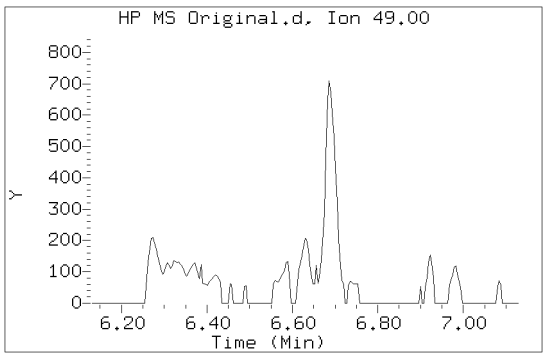
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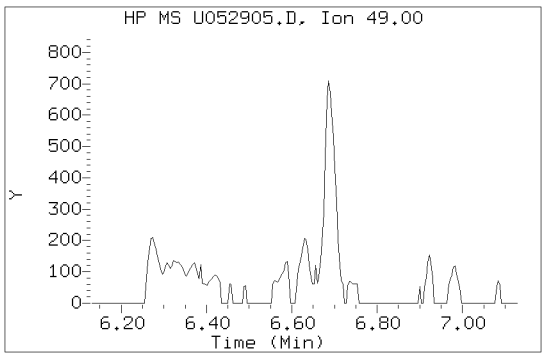
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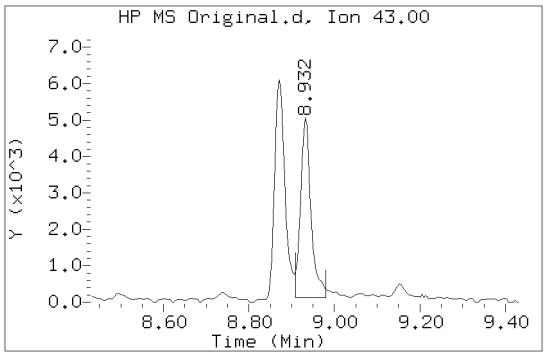
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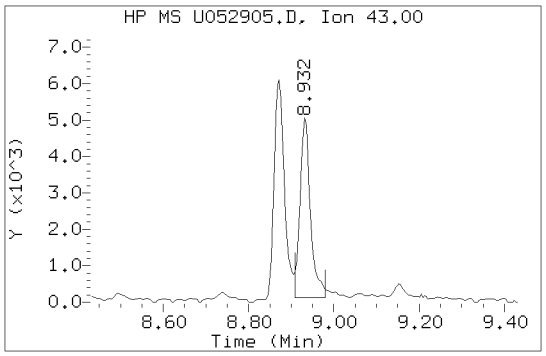
n-Amyl acetate (628-63-7)

Reason Code:

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AFTER
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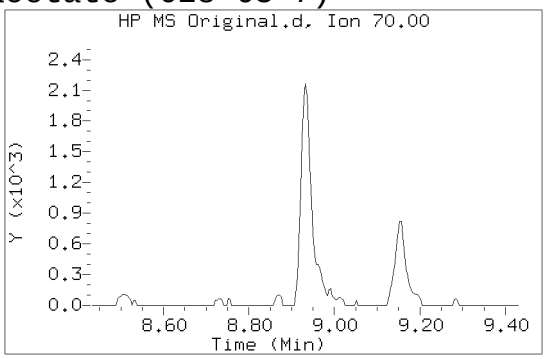


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LabSampID : VSTD002

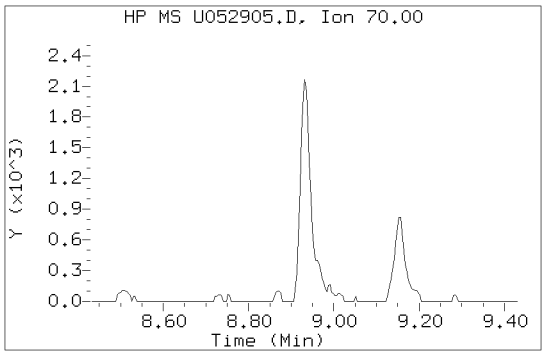
n-Amyl acetate (628-63-7)

Reason Code:

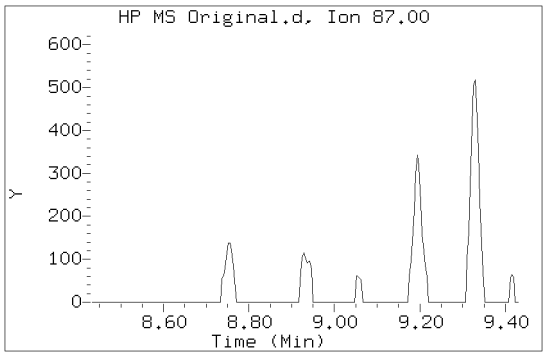
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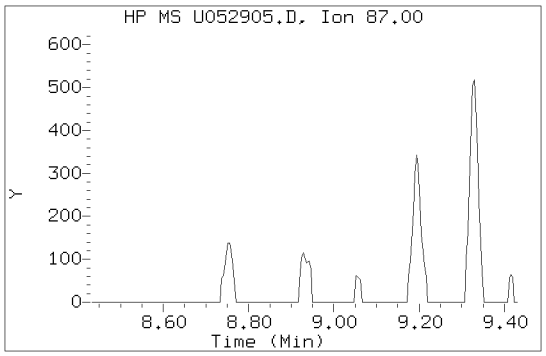
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BEFORE
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06-Jun-2024
17:10
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zaid



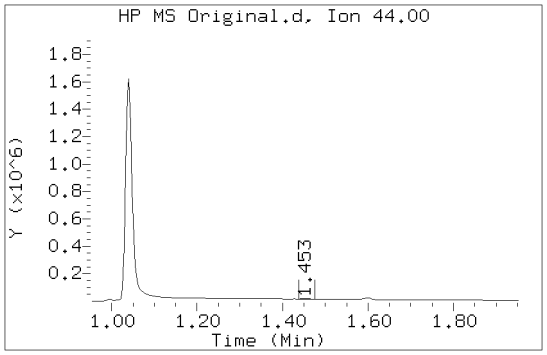
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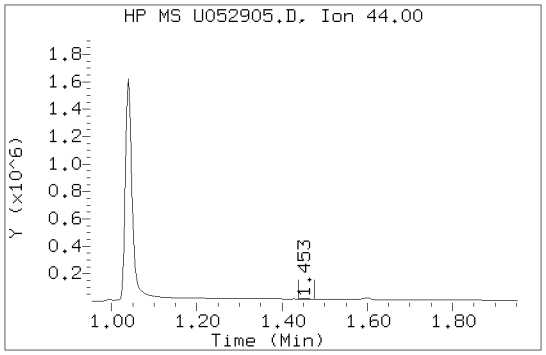
Acetaldehyde (75-07-0)

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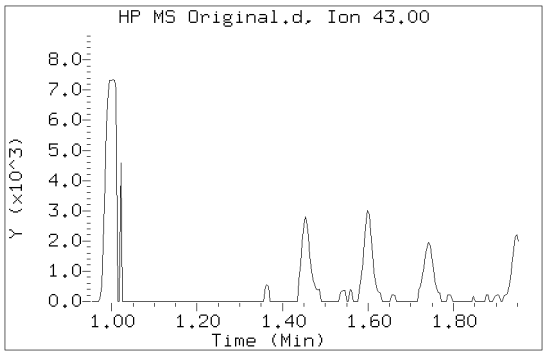
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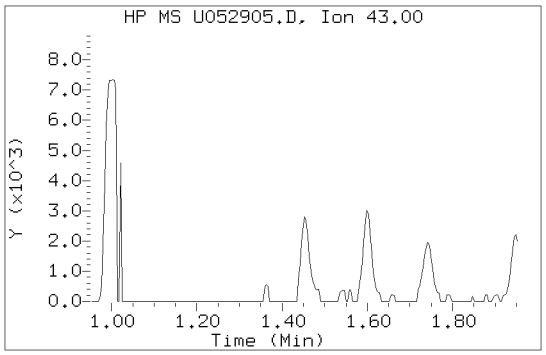
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10:36



BEFORE
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AFTER
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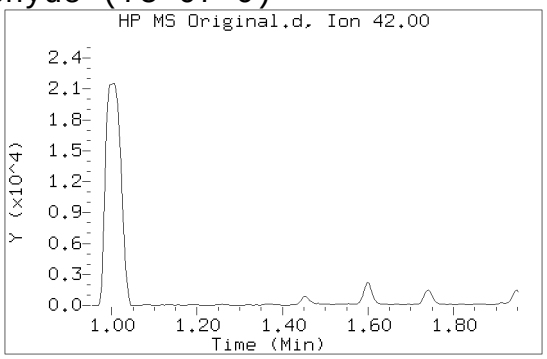


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Inj Date : 29-MAY-2024 11:43
InstruID : VOA9.i
LabSampID : VSTD002

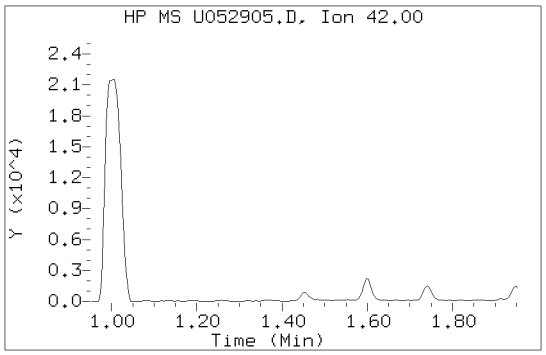
Acetaldehyde (75-07-0)

Reason Code:

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06-Jun-2024
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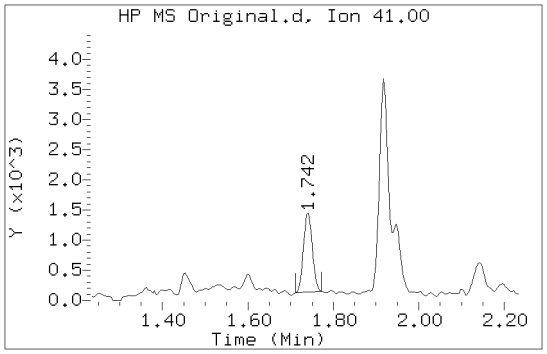
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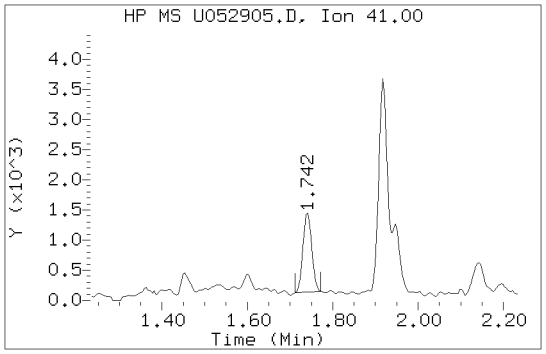
Isobutylene (115-11-7)

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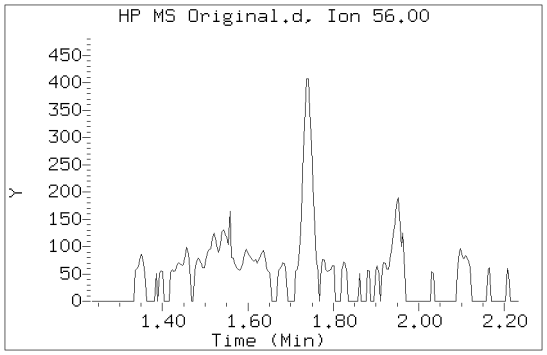
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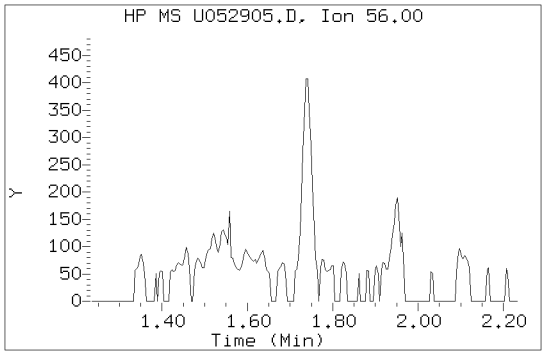
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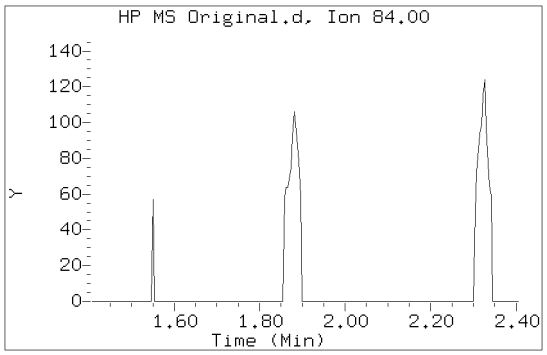
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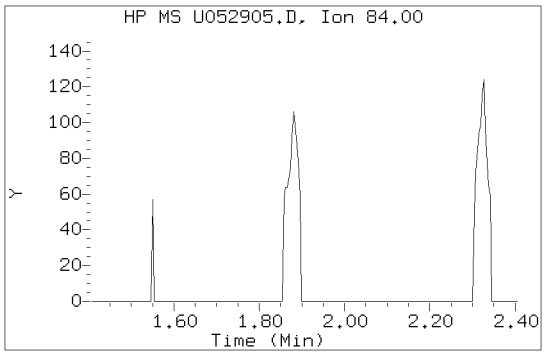
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BEFORE
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AFTER
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07-Jun-2024
10:36



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052906.D Page 1
Report Date: 07-Jun-2024 10:54

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052906.D
Lab Smp Id: VSTD005 Client Smp ID: VSTD005
Inj Date : 29-MAY-2024 12:05
Operator : FT Inst ID: VOA9.i
Smp Info : VSTD005;VSTD005;1;5
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240529.b\8260C.m
Meth Date : 07-Jun-2024 10:14 r.patel Quant Type: ISTD
Cal Date : 29-MAY-2024 12:05 Cal File: U052906.D
Als bottle: 6 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14

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	4.815	4.811	(1.000)	284725	50.0000	
2	Dichlorodifluoromethane	85	1.168	1.156	(0.243)	5755	5.00000	5.42(M)
3	Chloromethane	50	1.299	1.288	(0.270)	21844	5.00000	5.10
4	Propionitrile	54	4.343	4.339	(0.902)	17004	50.0000	49.86(a)
5	Vinyl Chloride	62	1.381	1.366	(0.287)	10603	5.00000	4.93(M)
6	Bromomethane	94	1.618	1.595	(0.336)	6167	5.00000	4.80
7	Chloroethane	64	1.704	1.681	(0.354)	8259	5.00000	5.34(M)
8	Trichlorofluoromethane	101	1.899	1.884	(0.394)	13728	5.00000	5.37
9	Acrolein	56	2.266	2.259	(0.471)	1464	10.0000	12.29(a)
10	Acetone	43	2.412	2.405	(0.501)	11049	10.0000	11.23
11	1,1-Dichloroethene	96	2.334	2.322	(0.485)	9505	5.00000	5.06
12	Isobutyl Alcohol	43	5.284	5.284	(1.097)	29987	100.000	88.05(a)
13	Acetonitrile	39	2.671	2.663	(0.555)	11564	50.0000	50.06(a)
14	Allyl Chloride	41	2.675	2.667	(0.556)	29273	5.00000	5.15(a)
15	Iodomethane	142	2.469	2.457	(0.513)	2162	10.0000	9.34(T)
16	Acrylonitrile	53	3.068	3.061	(0.637)	8324	10.0000	9.69
17	Methylene Chloride	84	2.795	2.783	(0.580)	13562	5.00000	5.06
18	Methyl tert-butyl ether	73	3.083	3.076	(0.640)	28791	5.00000	5.12
19	Carbon Disulfide	76	2.521	2.510	(0.524)	48970	10.0000	9.30
20	trans-1,2-Dichloroethene	96	3.057	3.050	(0.635)	10326	5.00000	4.86
21	Vinyl Acetate	43	4.347	4.339	(0.903)	9536	10.0000	7.59(M)

22 1,1-Dichloroethane	63	3.514	3.507 (0.730)	18686	5.00000	4.58
23 Chloroprene	53	3.608	3.601 (0.749)	14926	5.00000	4.99(a)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
24	2-Butanone	43	4.272	4.260	(0.887)	10743	10.0000	8.44
25	Methacrylonitrile	41	4.500	4.489	(0.935)	6036	5.00000	4.56(a)
26	2,2-Dichloropropane	77	4.185	4.174	(0.869)	12425	5.00000	4.64
27	cis-1,2-Dichloroethene	96	4.197	4.189	(0.872)	11931	5.00000	4.55
28	Chloroform	83	4.575	4.568	(0.950)	18694	5.00000	4.59
29	Bromochloromethane	128	4.470	4.463	(0.928)	6036	5.00000	5.25
$ 30	Dibromofluoromethane	113	4.748	4.744	(0.986)	9474	5.00000	4.87
31	1,1,1-Trichloroethane	97	4.740	4.736	(0.984)	13454	5.00000	4.71
32	1,1-Dichloropropene	75	4.920	4.916	(0.886)	14692	5.00000	4.92
33	1,2-Dichloroethane	62	5.175	5.171	(0.932)	15306	5.00000	5.53(M)
34	Carbon Tetrachloride	117	4.909	4.905	(0.884)	10732	5.00000	4.59(M)
$ 35	1,2-Dichloroethane-d4	65	5.096	5.093	(1.058)	11774	5.00000	5.76
* 36	1,4-Difluorobenzene	114	5.554	5.550	(1.000)	411950	50.0000	
37	Benzene	78	5.138	5.134	(0.925)	44829	5.00000	4.62
38	Trichloroethene	130	5.786	5.786	(1.042)	11283	5.00000	4.72(a)
39	Bromodichloromethane	83	6.277	6.277	(1.130)	10936	5.00000	4.19(a)
40	Methyl Methacrylate	41	5.827	5.827	(1.210)	4802	5.00000	5.27(a)
41	2-Chloroethylvinyl ether	63	6.577	6.573	(1.184)	5106	10.0000	9.28
42	1,2-Dichloropropane	63	6.007	6.007	(1.082)	11260	5.00000	4.39(aM)
43	2-Nitropropane	43	6.510	6.506	(1.352)	1819	5.00000	5.51(M)
44	Dibromomethane	93	6.120	6.116	(1.102)	6505	5.00000	4.37(a)
45	4-Methyl-2-Pentanone	43	6.855	6.851	(0.838)	21975	10.0000	9.32
46	cis-1,3-Dichloropropene	75	6.693	6.690	(1.205)	13035	5.00000	4.65(a)
* 47	Chlorobenzene-d5	117	8.182	8.185	(1.000)	372525	50.0000	
$ 48	Toluene-d8	98	6.922	6.918	(0.846)	36100	5.00000	5.26
49	Ethyl Methacrylate	69	7.289	7.289	(1.312)	14235	5.00000	4.46(a)
50	Toluene	91	6.982	6.978	(0.853)	43888	5.00000	4.34(a)
51	trans-1,3-Dichloropropene	75	7.196	7.196	(1.296)	9852	5.00000	4.64(a)
52	2-Hexanone	43	7.593	7.589	(0.928)	12848	10.0000	9.63(M)
53	1,1,2-Trichloroethane	83	7.353	7.353	(0.899)	8641	5.00000	4.57(a)
54	1,3-Dichloropropane	76	7.496	7.499	(0.916)	18280	5.00000	4.43(a)
55	Dibromochloromethane	129	7.690	7.690	(0.940)	7567	5.00000	4.39(a)
56	Tetrachloroethene	164	7.454	7.454	(0.911)	8433	5.00000	4.77(a)
57	1,2-Dibromoethane	107	7.784	7.784	(0.951)	9614	5.00000	4.32(a)
58	1-Chlorohexane	55	8.193	8.196	(1.475)	11209	5.00000	5.83
59	Chlorobenzene	112	8.208	8.208	(1.003)	29257	5.00000	4.55(a)
60	1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	8768	5.00000	4.27(a)
61	Ethylbenzene	106	8.305	8.305	(1.015)	14250	5.00000	4.87(a)
62	m,p-Xylenes	106	8.406	8.406	(1.027)	39064	10.0000	9.49(a)
63	o-Xylene	106	8.744	8.744	(1.069)	17958	5.00000	5.39
64	Styrene	104	8.763	8.759	(1.071)	26246	5.00000	4.25(a)
66	Bromoform	173	8.916	8.916	(1.090)	4403	5.00000	4.63(Ta)
67	Isopropylbenzene	105	9.059	9.059	(1.107)	40665	5.00000	4.57(a)
68	1,1,2,2-Tetrachloroethane	83	9.325	9.329	(0.917)	15063	5.00000	4.54(a)
$ 69	4-Bromofluorobenzene	95	9.194	9.190	(1.124)	14171	5.00000	5.38
* 70	1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	199318	50.0000	
71	1,2,3-Trichloropropane	75	9.359	9.362	(0.920)	13410	5.00000	4.31(aM)
72	trans-1,4-Dichloro-2-butene	53	9.377	9.377	(1.146)	2457	5.00000	3.86(a)
73	n-Propylbenzene	91	9.411	9.411	(0.926)	46926	5.00000	4.36(a)
74	Bromobenzene	156	9.317	9.317	(0.916)	12506	5.00000	4.56(a)
75	1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	34885	5.00000	4.60(a)
76	2-Chlorotoluene	91	9.482	9.482	(0.933)	31374	5.00000	4.63(a)

77 4-Chlorotoluene	91	9.576	9.576 (0.942)	34706	5.00000	4.50(a)
78 tert-Butylbenzene	119	9.835	9.835 (0.967)	27653	5.00000	4.58(aM)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
79	1,2,4-Trimethylbenzene	105	9.876	9.876	(0.971)	43795	5.00000	4.27(a)
81	sec-Butylbenzene	105	10.018	10.022	(0.985)	36640	5.00000	4.47(a)
82	p-Isopropyltoluene	119	10.142	10.146	(0.997)	31131	5.00000	4.36(a)
83	1,3-Dichlorobenzene	146	10.112	10.116	(0.994)	20563	5.00000	4.44(aM)
84	1,4-Dichlorobenzene	146	10.187	10.191	(1.002)	23409	5.00000	4.56(a)
86	Benzyl Chloride	91	10.311	10.311	(1.260)	12197	5.00000	5.26
87	n-Butylbenzene	91	10.491	10.491	(1.032)	28223	5.00000	4.72(a)
88	1,2-Dichlorobenzene	146	10.506	10.502	(1.033)	21652	5.00000	4.51(aM)
89	1,2-Dibromo-3-Chloropropane	155	11.166	11.165	(1.098)	1716	5.00000	5.01
90	1,2,4-Trichlorobenzene	180	11.859	11.855	(1.166)	12545	5.00000	4.15(a)
91	Hexachlorobutadiene	225	11.994	11.998	(1.180)	5266	5.00000	4.34(a)
92	Naphthalene	128	12.069	12.065	(1.187)	32575	5.00000	4.37(a)
93	1,2,3-Trichlorobenzene	180	12.268	12.268	(1.206)	12191	5.00000	4.33(a)
146	Methyl acetate	43	2.716	2.708	(0.564)	11748	5.00000	5.44
138	Freon TF	101	2.337	2.326	(0.485)	7685	5.00000	5.37
141	Cyclohexane	56	4.782	4.778	(0.993)	17154	5.00000	5.39
142	Tetrahydrofuran	42	4.549	4.542	(0.945)	5039	10.0000	10.86
147	Methylcyclohexane	55	5.947	5.944	(1.071)	23229	5.00000	5.22
135	1,4-Dioxane	88	6.172	6.168	(1.282)	3681	100.000	114.87
132	n-Butanol	56	5.827	5.827	(1.210)	6842	100.000	89.20(a)
136	n-Hexane	57	3.338	3.331	(0.693)	9230	5.00000	5.56
139	Diethyl ether	59	2.146	2.139	(0.446)	8354	5.00000	5.17
148	Tert-butyl alcohol	59	2.975	2.975	(0.618)	24373	100.000	111.13
149	Isopropyl alcohol	45	2.570	2.570	(0.534)	17652	100.000	105.12(T)
152	Amyl alcohol	42	7.402	7.398	(0.905)	7303	100.000	109.09
156	Diisopropyl ether	45	3.623	3.619	(0.752)	34889	5.00000	4.79(Ta)
162	Butyl acrylate	55	8.733	8.733	(1.067)	17657	5.00000	5.35
187	n-Amyl acetate	43	8.931	8.931	(1.092)	18695	5.00000	4.62(aM)
164	Dicyclopentadiene	66	10.198	10.198	(1.003)	48465	5.00000	4.74(a)
166	1,2,3-Trimethylbenzene	105	10.232	10.232	(1.006)	35395	5.00000	5.75
167	Ethanol	45	2.086	2.086	(0.433)	3681	100.000	115.80
172	tert-Butyl formate	59	5.243	5.250	(1.089)	21868	10.0000	9.72
173	3,3-Dimethyl-1-butanol	57	7.780	7.784	(0.951)	26557	100.000	102.42
174	tert-Amyl methyl ether	73	5.288	5.284	(1.098)	31679	5.00000	4.75(a)
175	tert-Butyl ethyl ether	59	4.054	4.047	(0.842)	31049	5.00000	4.76(a)
176	tert-Amyl alcohol	59	5.243	5.250	(1.089)	21868	100.000	96.11
151	4-Methyl-2-pentanol	45	7.214	7.222	(1.299)	63851	100.000	109.46
140	1,3-Butadiene	54	1.404	1.396	(0.292)	5559	5.00000	5.27
182	Epichlorohydrin	57	6.630	6.630	(1.194)	2221	20.0000	17.49(M)
M 94	1,2-Dichloroethylene (total)	96				22257	10.0000	(a)
130	Ethyl Acetate	43	4.347	4.339	(0.903)	11342	5.00000	4.32(a)
131	Methyl Acrylate	55	4.377	4.365	(0.909)	13966	5.00000	5.27
189	n-Butyl acetate	43	7.705	7.702	(0.942)	16090	5.00000	4.11(a)
134	Cyclohexanone	55	9.152	9.152	(0.900)	11414	100.000	111.28(a)
185	Isoprene	39	2.157	2.146	(0.448)	2012	5.00000	5.15
188	Isopropyl acetate	43	5.284	5.284	(0.951)	30786	5.00000	4.50(a)
150	Allyl alcohol	57	3.338	3.331	(0.693)	9230	100.000	111.23
194	Acetaldehyde	44	1.464	1.453	(0.304)	8362	20.0000	17.67(M)
195	Methyl Amyl Ketone	43	8.868	8.868	(1.084)	20685	5.00000	4.55(a)
200	Dimethyl Disulfide	94	6.742	6.746	(0.824)	3903	5.00000	6.97
202	Isobutylene	41	1.749	1.734	(0.363)	5256	5.00000	5.57(M)
133	Ethyl Acrylate	55	5.947	5.944	(1.235)	23229	5.00000	5.17

163 Butyl methacrylate	41	9.647	9.647 (0.949)	10406	5.00000	4.51(aM)
159 Propylene oxide	43	2.206	2.191 (0.458)	1607	10.0000	8.97

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
203 2-Ethylhexyl Acrylate	55	12.043	12.039	(1.184)	8052	5.00000	4.69(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\voa9.i\U240529.b\U052906.D
Date : 29-MAY-2024 12:05
Client ID: VSTD005
Sample Info: VSTD005;VSTD005;1;5
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9.i
Operator: FT
Column diameter: 0.18

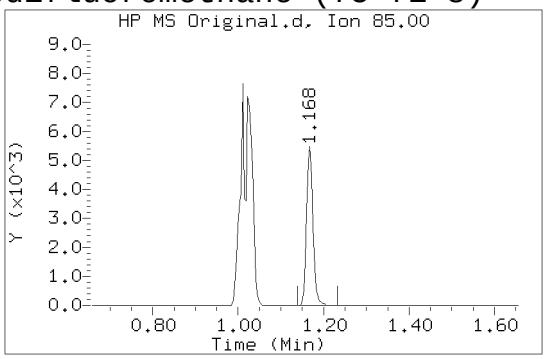
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InstruID : VOA9.i
LabSampID : VSTD005

Dichlorodifluoromethane (75-71-8)

Reason Code:

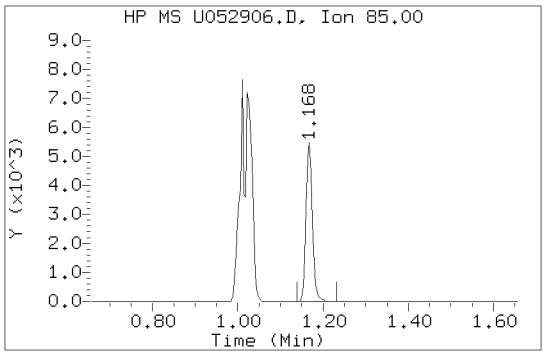
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HEIGHT
5475
06-Jun-2024
17:10
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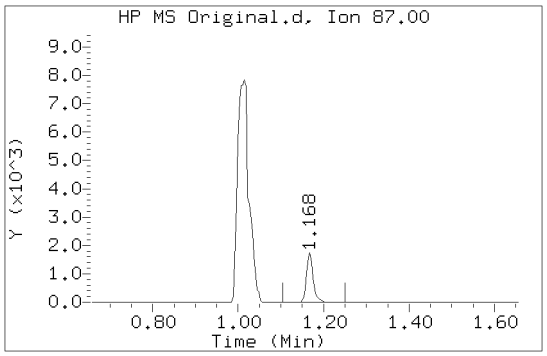
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10:36



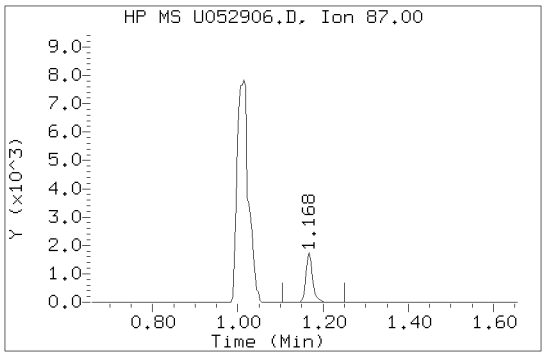
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zaid



AFTER

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07-Jun-2024
10:36

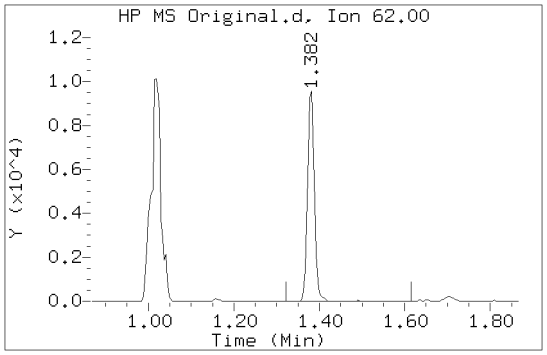


Vinyl Chloride (75-01-4)

Reason Code:

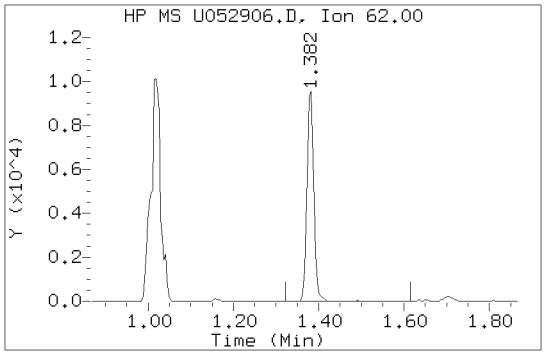
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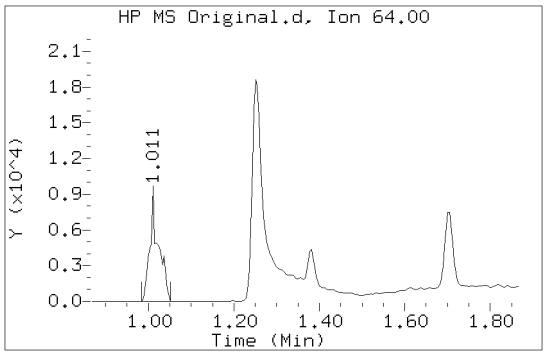
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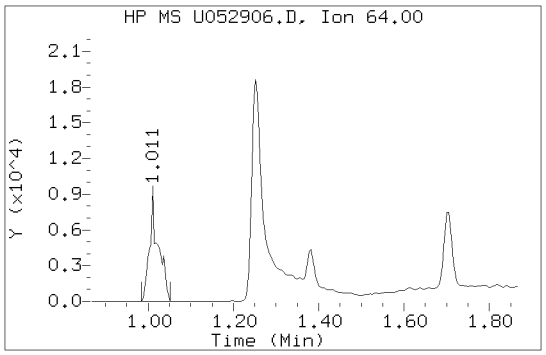
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zaid



AFTER

MASS
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HEIGHT
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07-Jun-2024
10:36



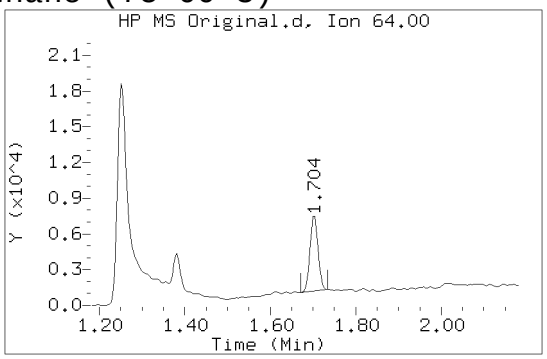
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InstruID : VOA9.i
LabSampID : VSTD005

Chloroethane (75-00-3)

Reason Code:

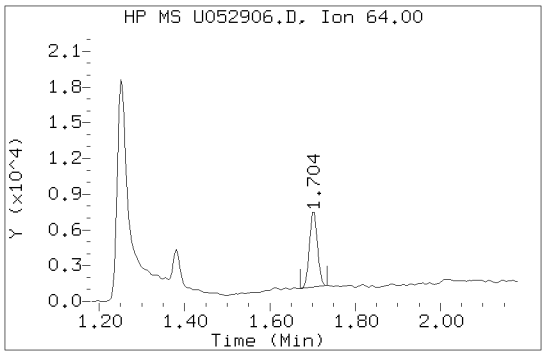
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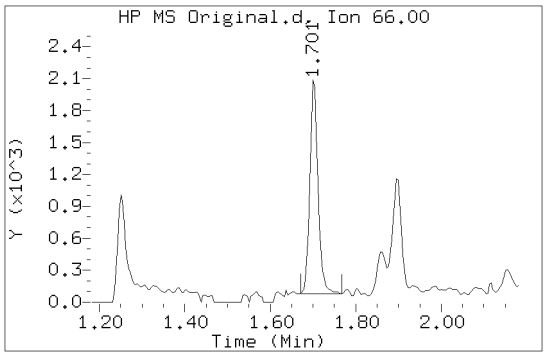
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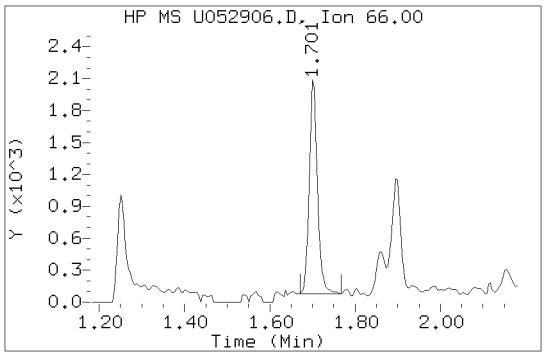
BEFORE

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AFTER

MASS
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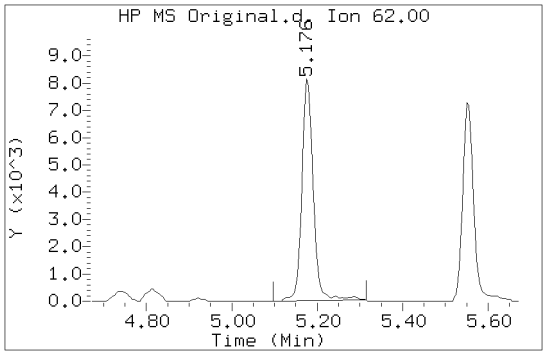


1,2-Dichloroethane (107-06-2)

Reason Code:

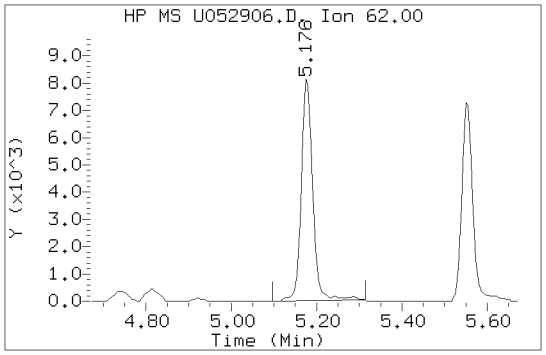
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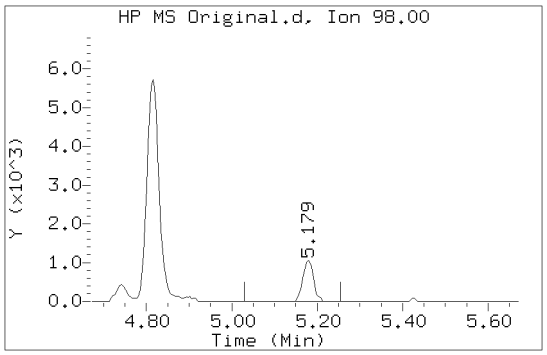
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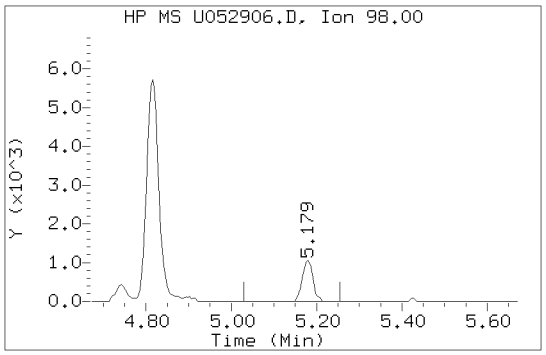
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AFTER

MASS
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1850
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07-Jun-2024
10:36



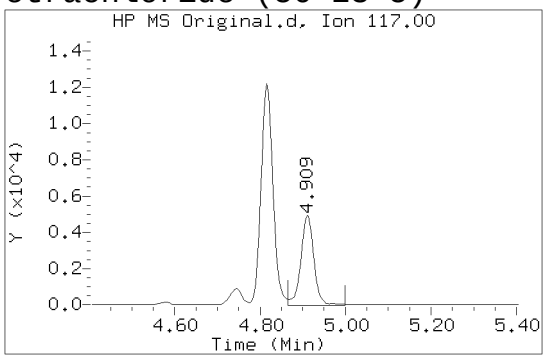
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Inj Date : 29-MAY-2024 12:05
InstruID : VOA9.i
LabSampID : VSTD005

Carbon Tetrachloride (56-23-5)

Reason Code:

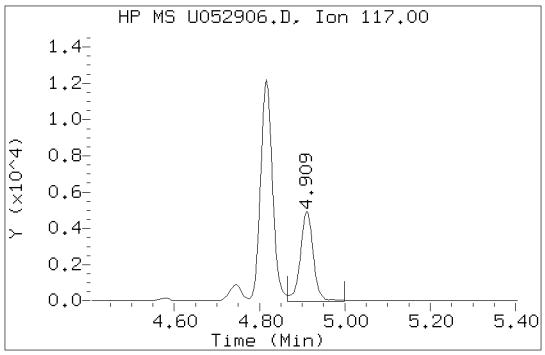
BEFORE

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4949
06-Jun-2024
17:10
s
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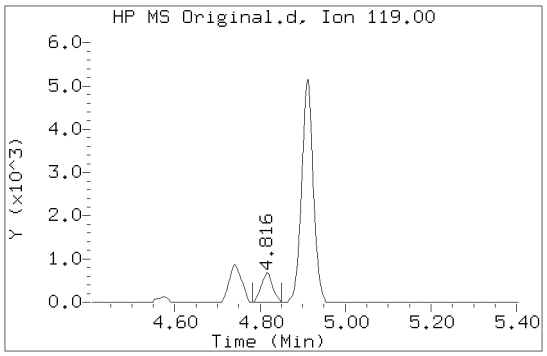
AFTER

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07-Jun-2024
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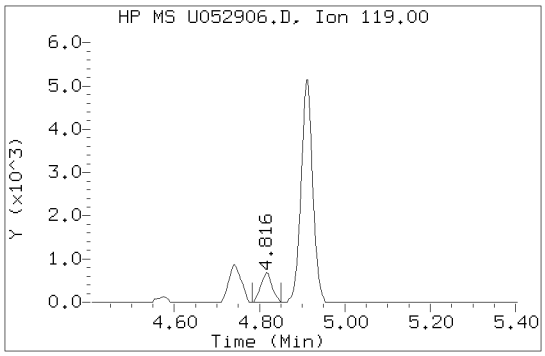
BEFORE

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AFTER

MASS
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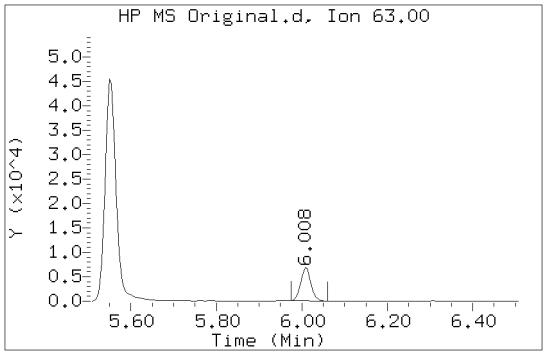


1,2-Dichloropropane (78-87-5)

Reason Code:

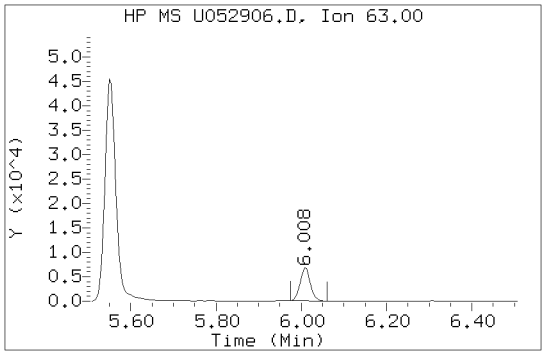
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17:10
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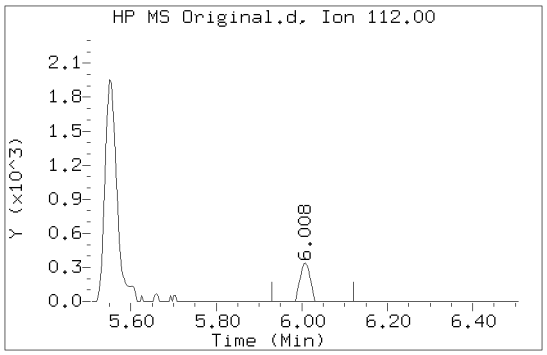
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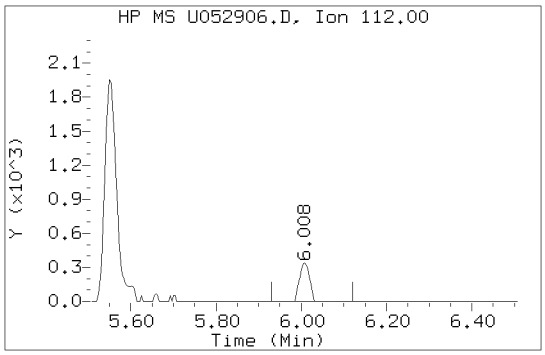
BEFORE

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560
HEIGHT
339
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17:10
s
zaid



AFTER

MASS
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AREA
560
HEIGHT
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07-Jun-2024
10:36



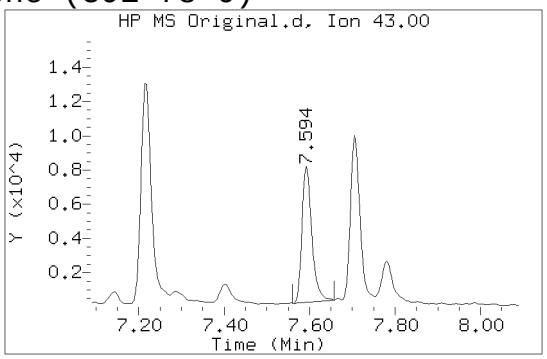
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InstruID : VOA9.i
LabSampID : VSTD005

2-Hexanone (591-78-6)

Reason Code:

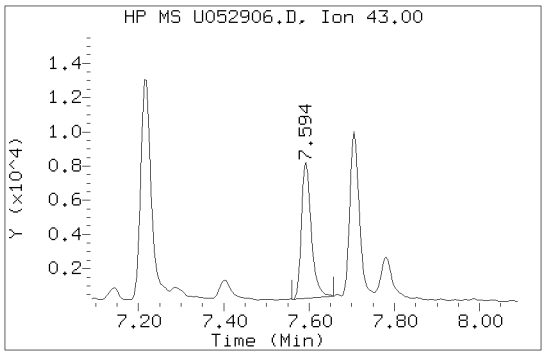
BEFORE

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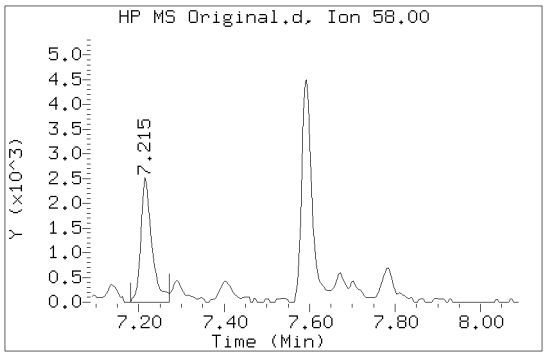
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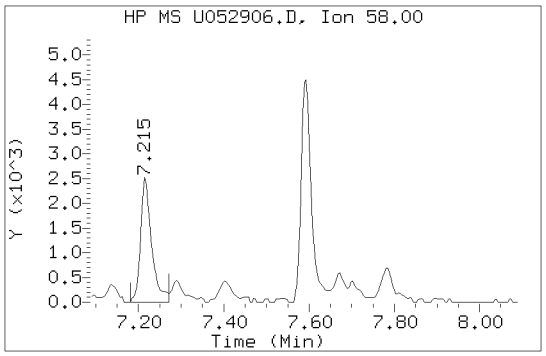
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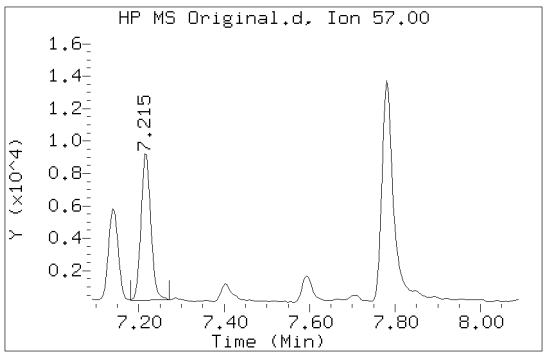
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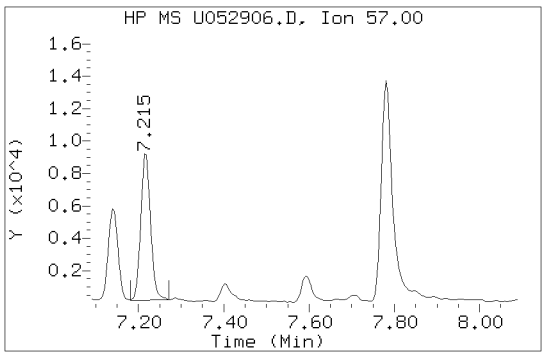
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AFTER

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07-Jun-2024
10:36

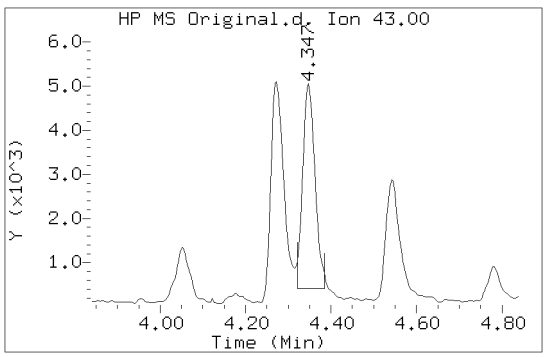


Vinyl Acetate (108-05-4)

Reason Code:

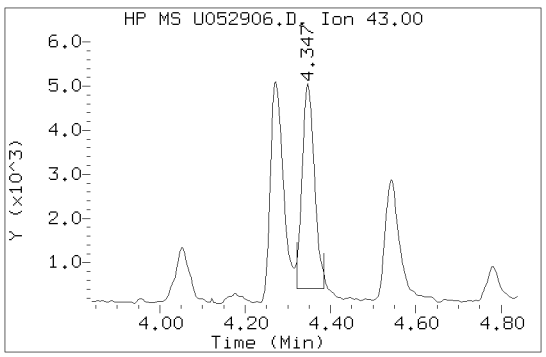
BEFORE

MASS
43
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9536
HEIGHT
4648
06-Jun-2024
17:10
s
zaid



AFTER

MASS
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AREA
9536
HEIGHT
4648
07-Jun-2024
10:36



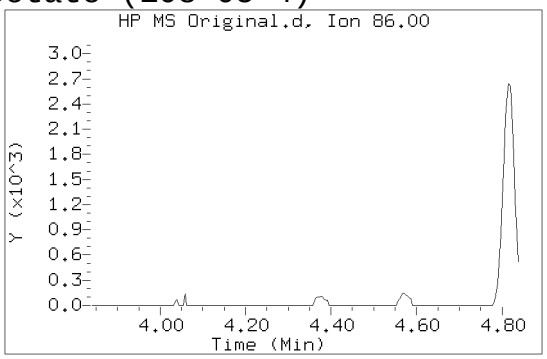
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Inj Date : 29-MAY-2024 12:05
InstruID : VOA9.i
LabSampID : VSTD005

Vinyl Acetate (108-05-4)

Reason Code:

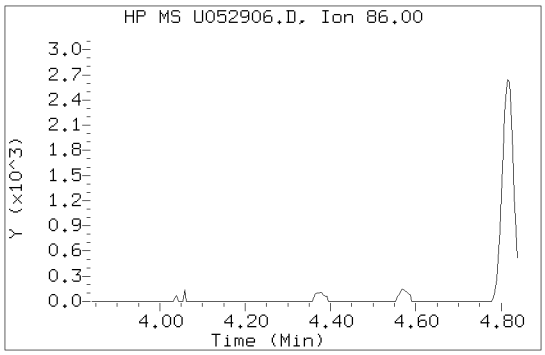
BEFORE

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17:10
s
zaid



AFTER

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HEIGHT
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07-Jun-2024
10:36

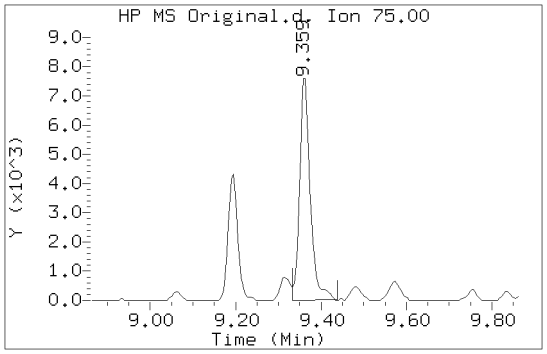


1,2,3-Trichloropropane (96-18-4)

Reason Code:

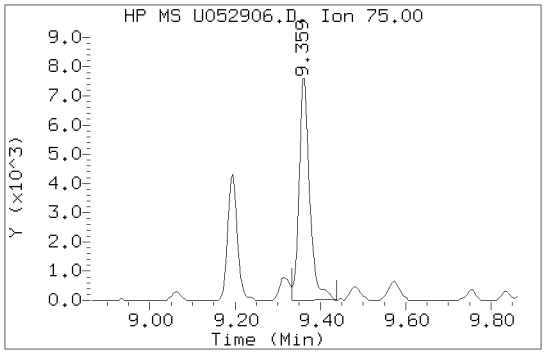
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7583
06-Jun-2024
17:10
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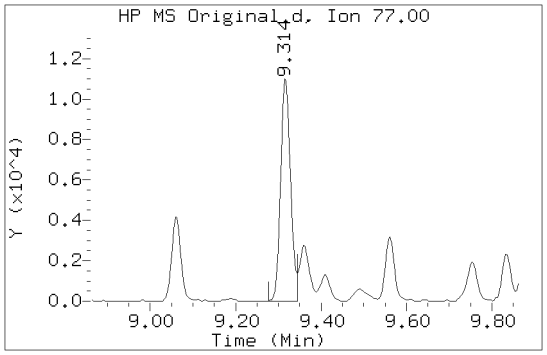
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07-Jun-2024
10:36



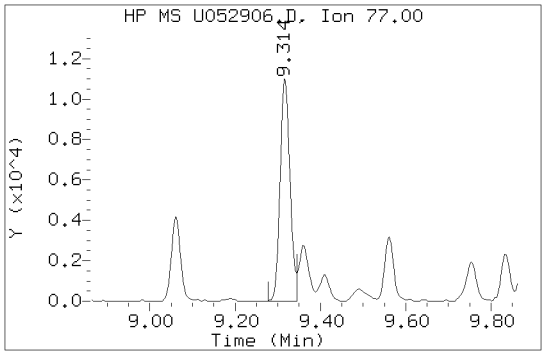
BEFORE

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17860
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10998
06-Jun-2024
17:10
s
zaid



AFTER

MASS
77
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17860
HEIGHT
10998
07-Jun-2024
10:36

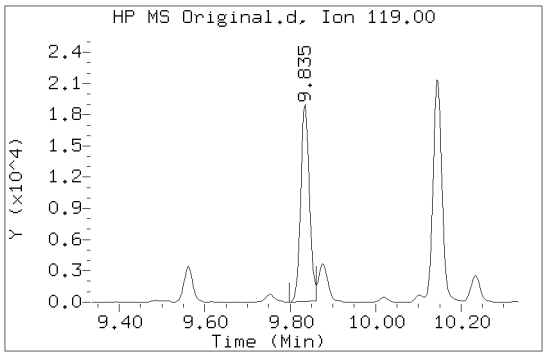


tert-Butylbenzene (98-06-6)

Reason Code:

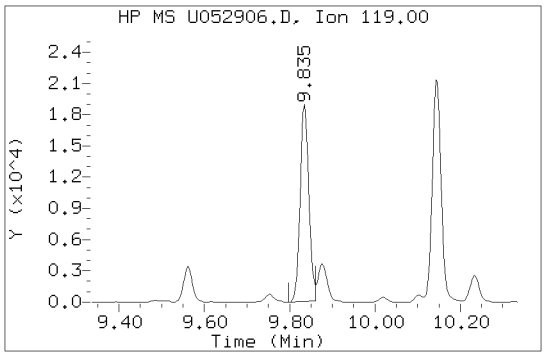
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HEIGHT
18977
06-Jun-2024
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zaid



AFTER

MASS
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27653
HEIGHT
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07-Jun-2024
10:36



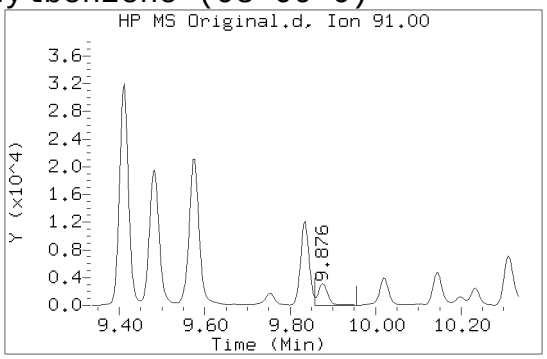
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Inj Date : 29-MAY-2024 12:05
InstruID : VOA9.i
LabSampID : VSTD005

tert-Butylbenzene (98-06-6)

Reason Code:

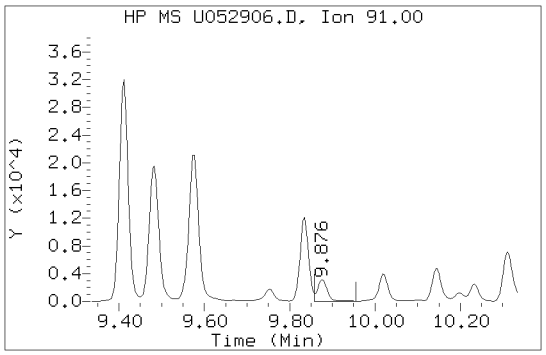
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91
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3121
06-Jun-2024
17:10
s
zaid



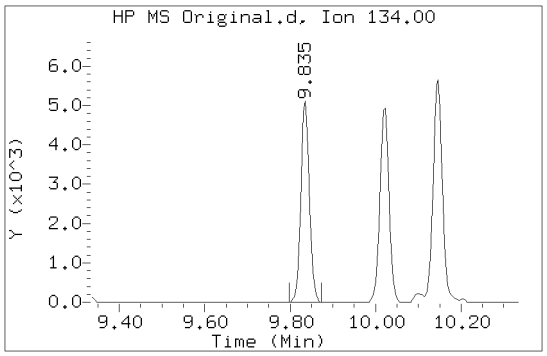
AFTER

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HEIGHT
3121
07-Jun-2024
10:36



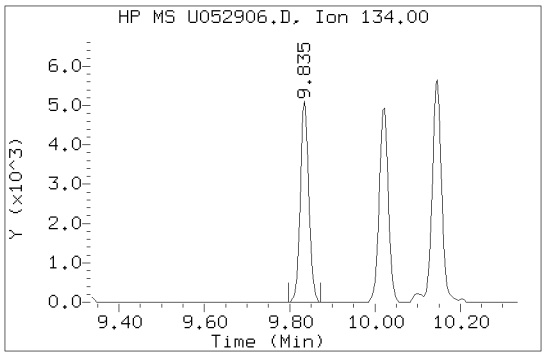
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HEIGHT
5118
06-Jun-2024
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zaid



AFTER

MASS
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7218
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07-Jun-2024
10:36

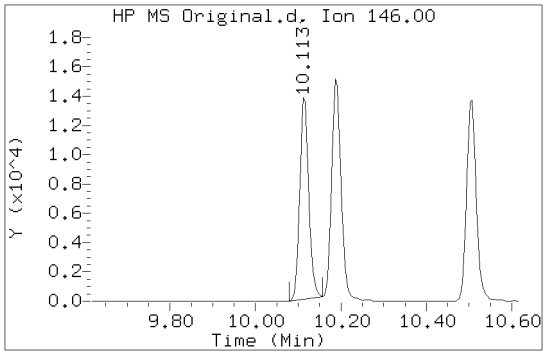


1,3-Dichlorobenzene (541-73-1)

Reason Code:

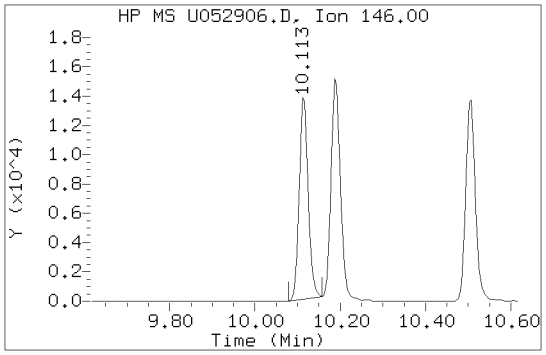
BEFORE

MASS
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AREA
20563
HEIGHT
13765
06-Jun-2024
17:10
s
zaid



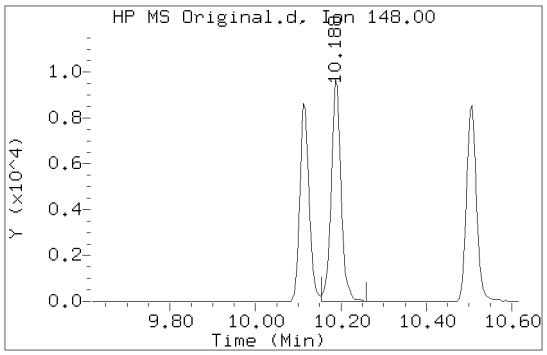
AFTER

MASS
146
AREA
20563
HEIGHT
13765
07-Jun-2024
10:36



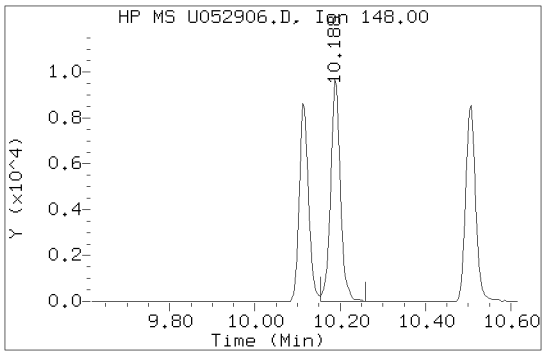
BEFORE

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148
AREA
15345
HEIGHT
9669
06-Jun-2024
17:10
s
zaid



AFTER

MASS
148
AREA
15345
HEIGHT
9669
07-Jun-2024
10:36



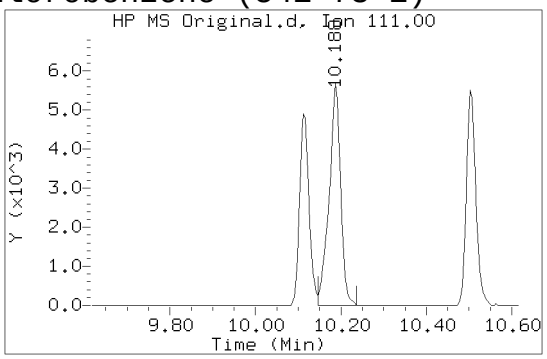
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Inj Date : 29-MAY-2024 12:05
InstruID : VOA9.i
LabSampID : VSTD005

1,3-Dichlorobenzene (541-73-1)

Reason Code:

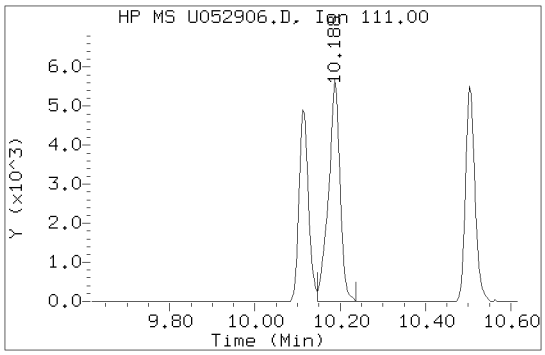
BEFORE

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111
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HEIGHT
5677
06-Jun-2024
17:10
s
zaid



AFTER

MASS
111
AREA
10600
HEIGHT
5677
07-Jun-2024
10:36

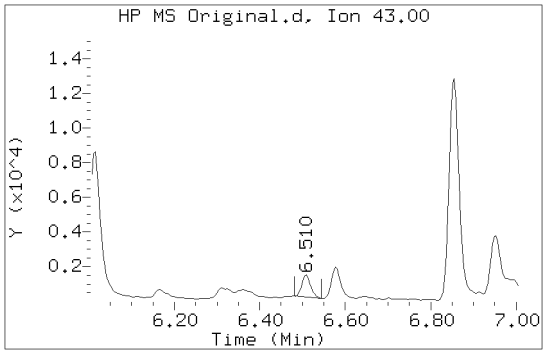


2-Nitropropane (79-46-9)

Reason Code:

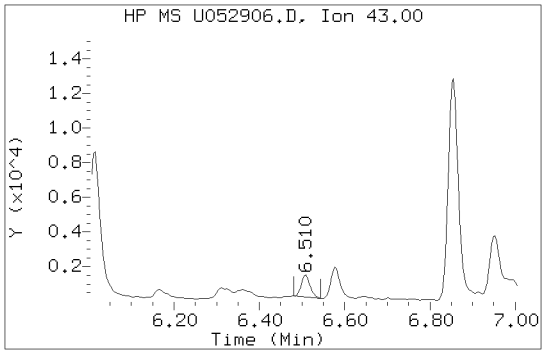
BEFORE

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HEIGHT
1291
06-Jun-2024
17:10
s
zaid



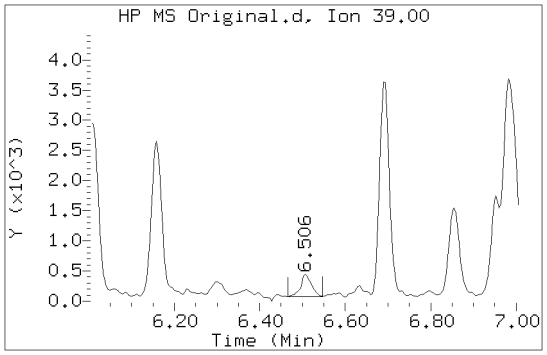
AFTER

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43
AREA
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HEIGHT
1291
07-Jun-2024
10:36



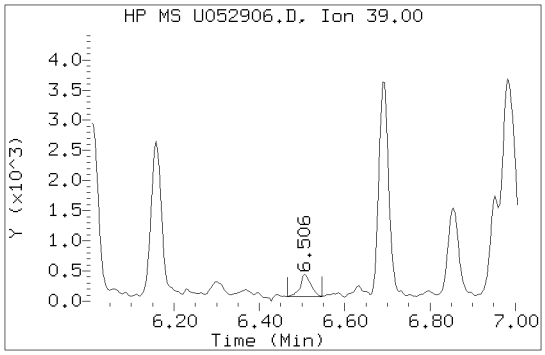
BEFORE

MASS
39
AREA
642
HEIGHT
371
06-Jun-2024
17:10
s
zaid



AFTER

MASS
39
AREA
642
HEIGHT
371
07-Jun-2024
10:36

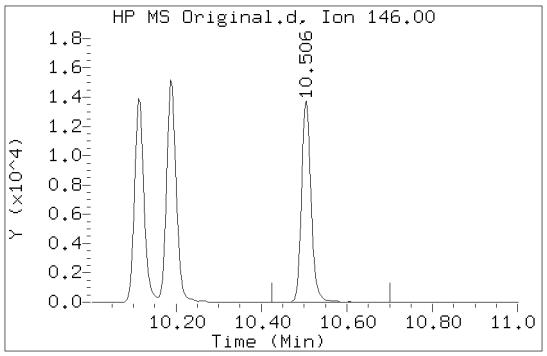


1,2-Dichlorobenzene (95-50-1)

Reason Code:

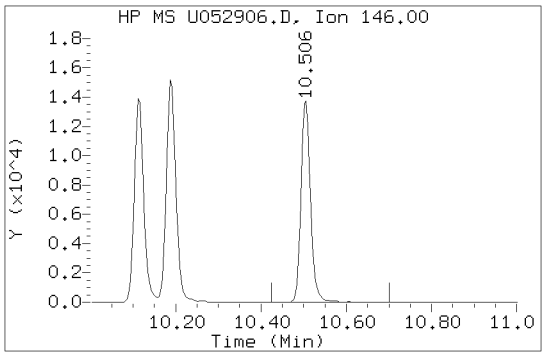
BEFORE

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HEIGHT
13716
06-Jun-2024
17:10
s
zaid



AFTER

MASS
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21652
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13716
07-Jun-2024
10:36



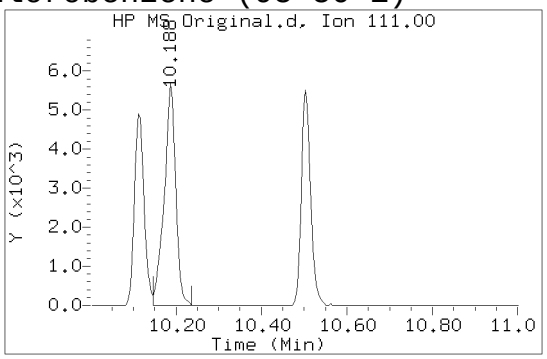
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Inj Date : 29-MAY-2024 12:05
InstruID : VOA9.i
LabSampID : VSTD005

1,2-Dichlorobenzene (95-50-1)

Reason Code:

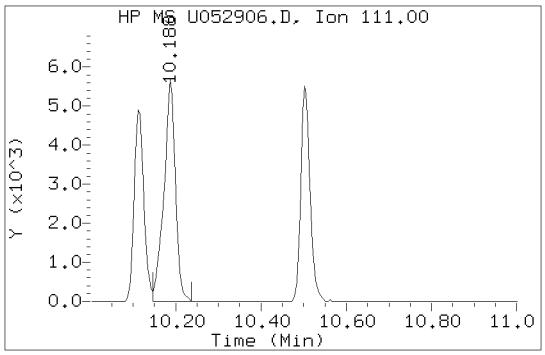
BEFORE

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HEIGHT
5677
06-Jun-2024
17:10
s
zaid



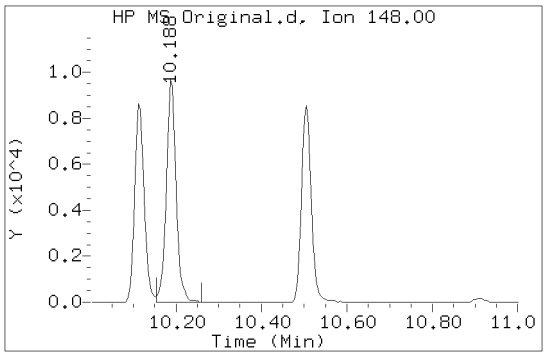
AFTER

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AREA
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HEIGHT
5677
07-Jun-2024
10:36



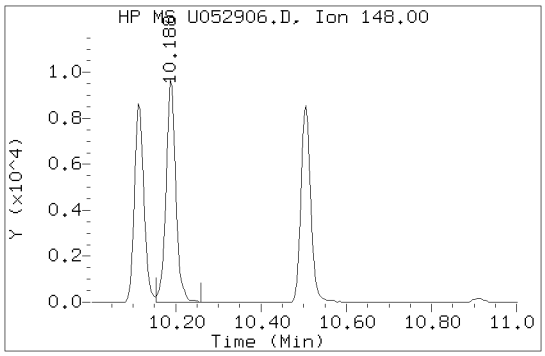
BEFORE

MASS
148
AREA
15345
HEIGHT
9669
06-Jun-2024
17:10
s
zaid



AFTER

MASS
148
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15345
HEIGHT
9669
07-Jun-2024
10:36

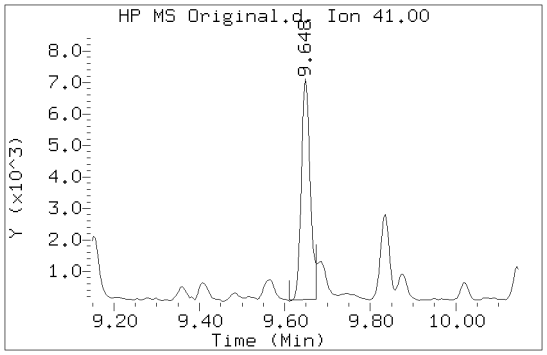


Butyl methacrylate (97-88-1)

Reason Code:

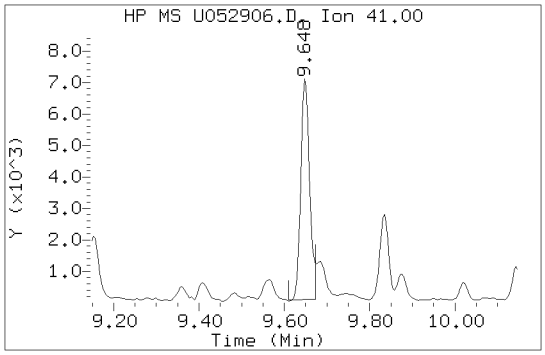
BEFORE

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HEIGHT
7008
06-Jun-2024
17:10
s
zaid



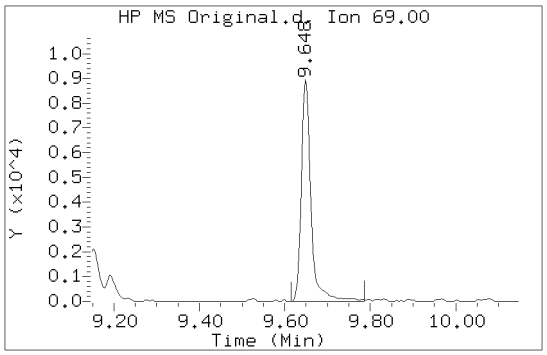
AFTER

MASS
41
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HEIGHT
7008
07-Jun-2024
10:36



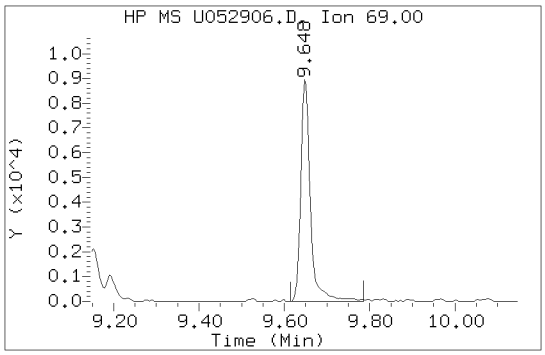
BEFORE

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8949
06-Jun-2024
17:10
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zaid



AFTER

MASS
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14358
HEIGHT
8949
07-Jun-2024
10:36



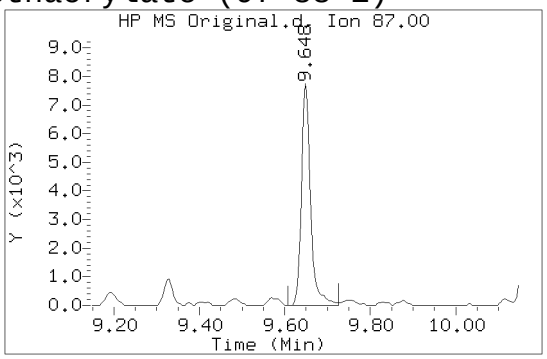
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Inj Date : 29-MAY-2024 12:05
InstruID : VOA9.i
LabSampID : VSTD005

Butyl methacrylate (97-88-1)

Reason Code:

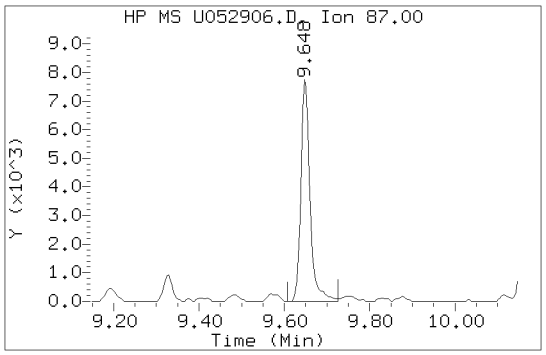
BEFORE

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87
AREA
11737
HEIGHT
7748
06-Jun-2024
17:10
s
zaid



AFTER

MASS
87
AREA
11737
HEIGHT
7748
07-Jun-2024
10:36

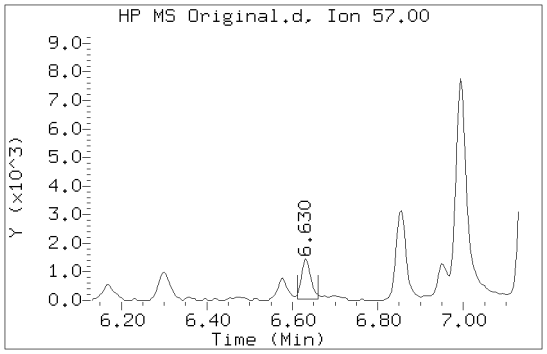


Epichlorohydrin (106-89-8)

Reason Code:

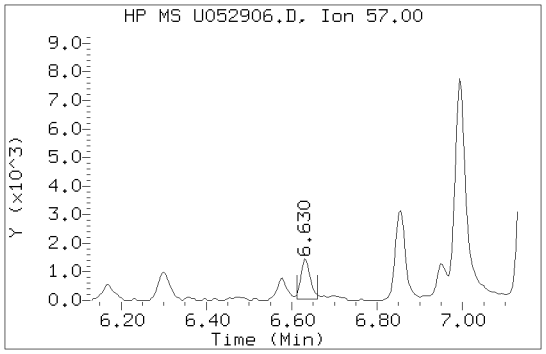
BEFORE

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57
AREA
2221
HEIGHT
1409
06-Jun-2024
17:10
s
zaid



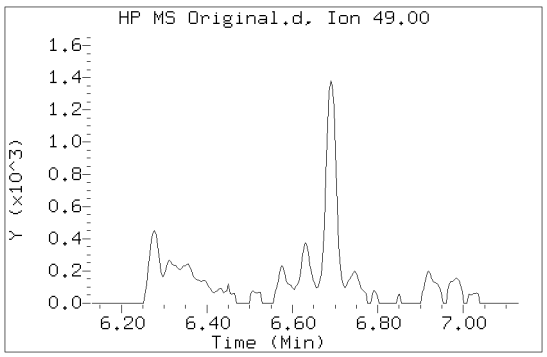
AFTER

MASS
57
AREA
2221
HEIGHT
1409
07-Jun-2024
10:36



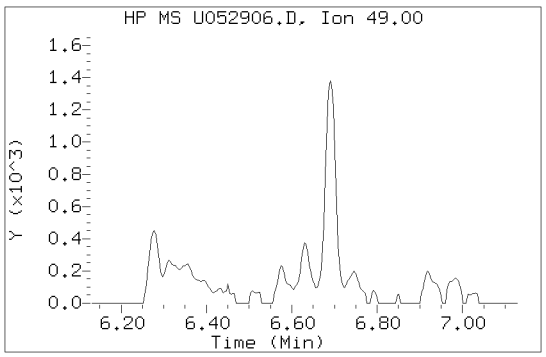
BEFORE

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49
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HEIGHT
0
06-Jun-2024
17:10
s
zaid



AFTER

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49
AREA
0
HEIGHT
0
07-Jun-2024
10:36

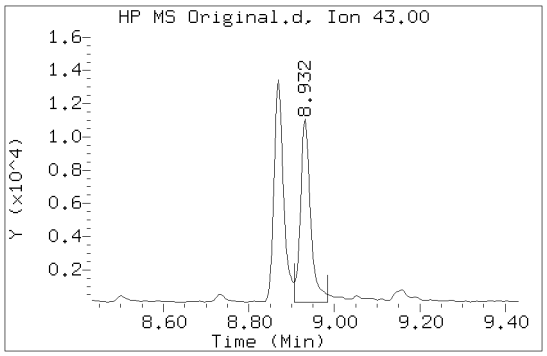


n-Amyl acetate (628-63-7)

Reason Code:

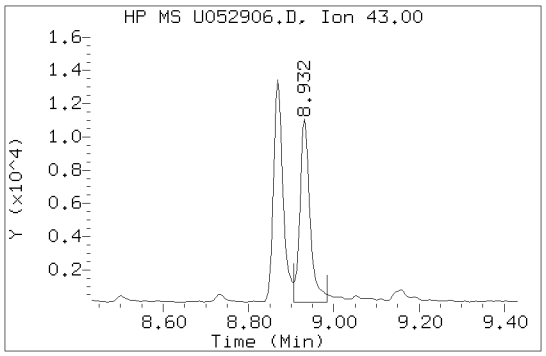
BEFORE

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AFTER

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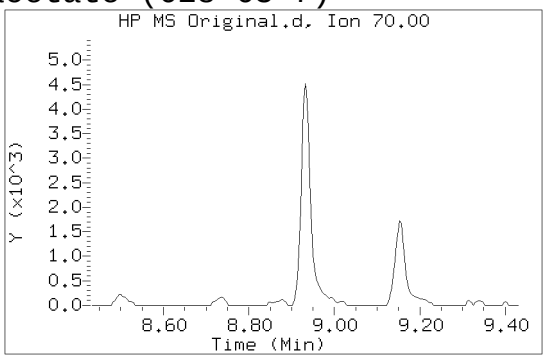


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LabSampID : VSTD005

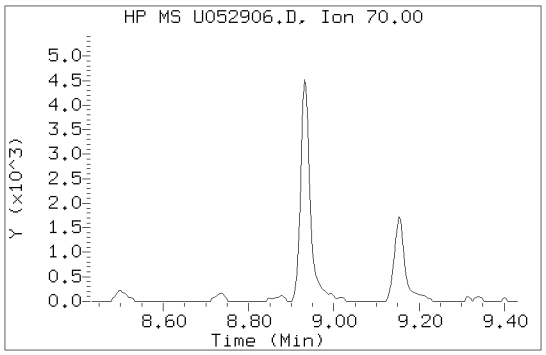
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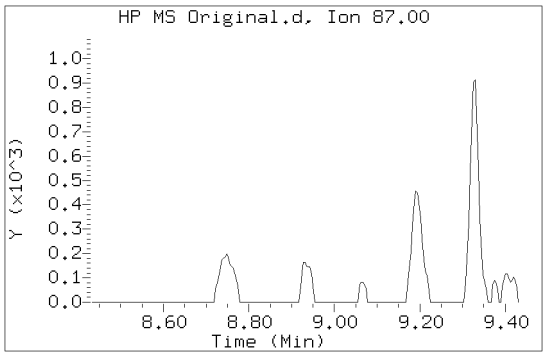
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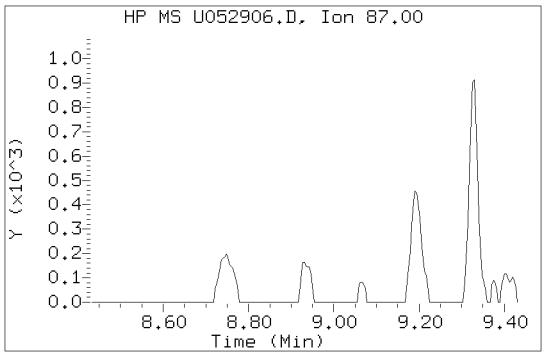
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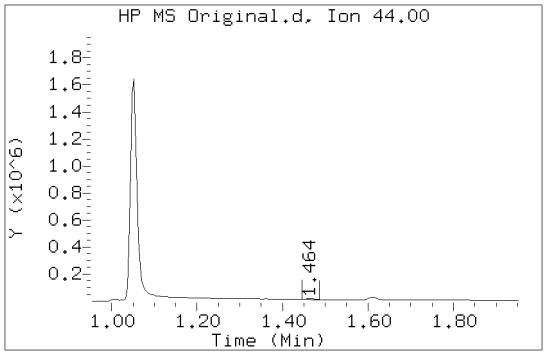
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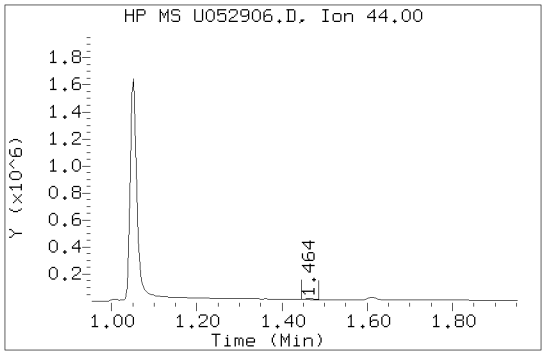
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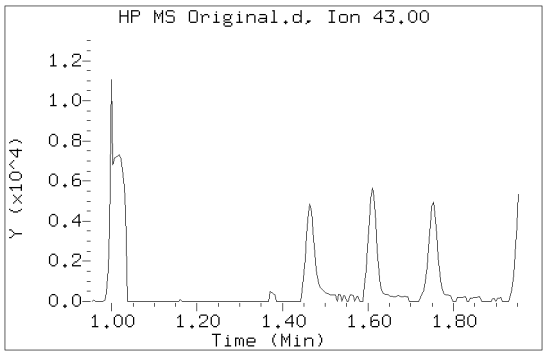
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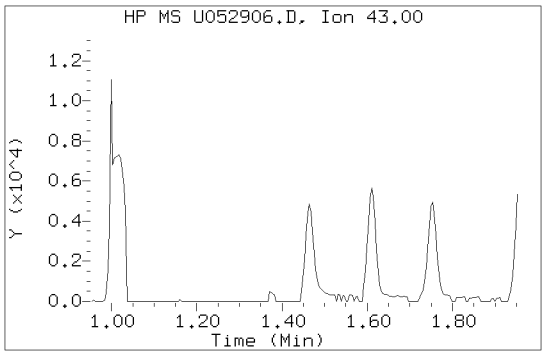
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BEFORE
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AFTER
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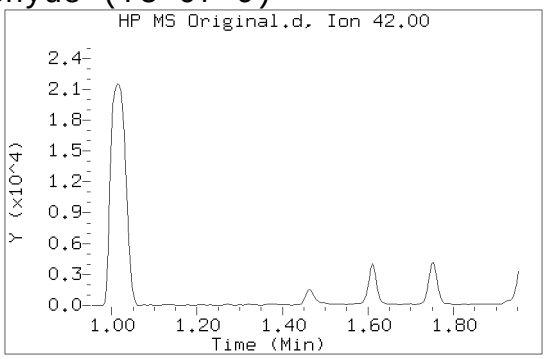


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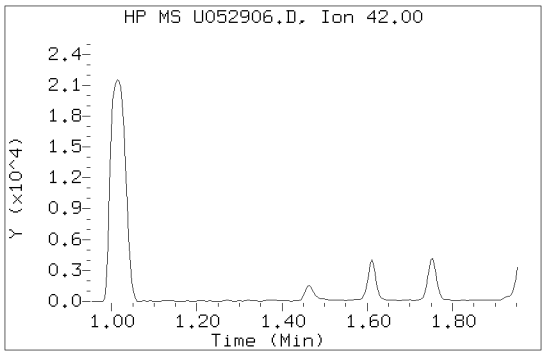
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Reason Code:

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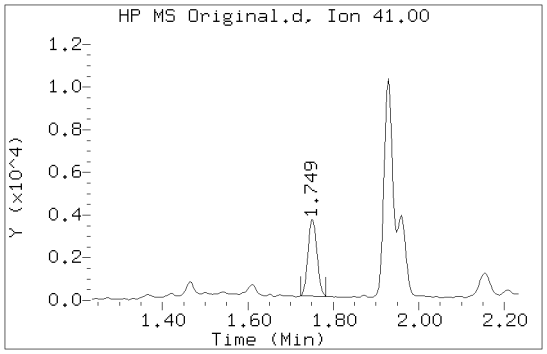
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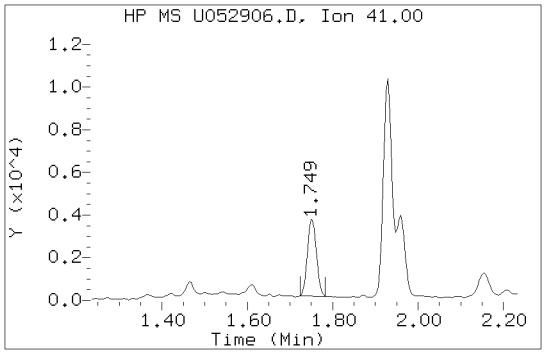
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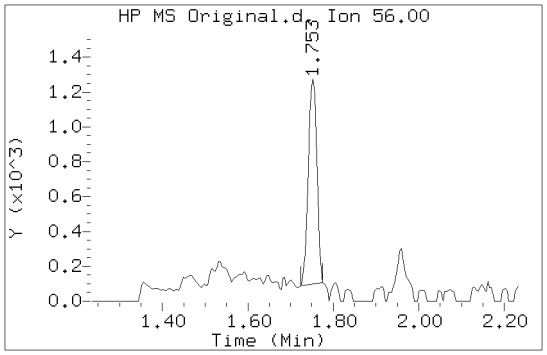
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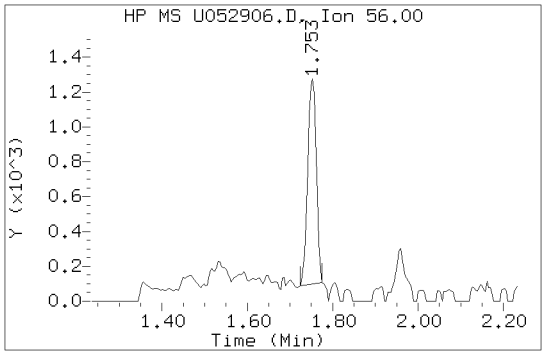
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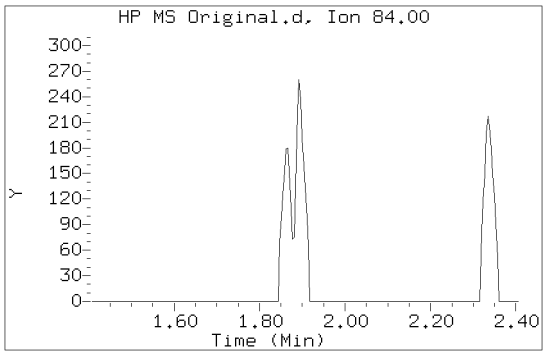
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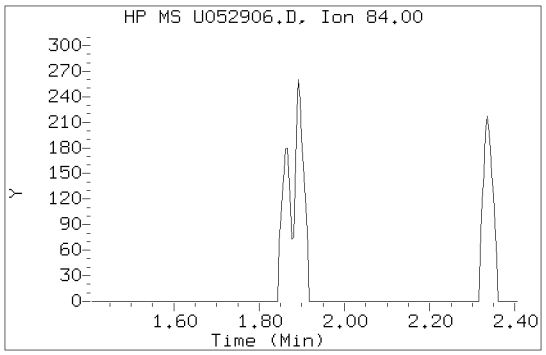
AFTER
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07-Jun-2024
10:36



BEFORE
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0
HEIGHT
0
06-Jun-2024
17:10
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zaid



AFTER
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AREA
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HEIGHT
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07-Jun-2024
10:36



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052907.D Page 1
Report Date: 07-Jun-2024 10:54

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052907.D
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Inj Date : 29-MAY-2024 12:26
Operator : FT Inst ID: VOA9.i
Smp Info : VSTD020;VSTD020;1;6
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240529.b\8260C.m
Meth Date : 07-Jun-2024 10:14 r.patel Quant Type: ISTD
Cal Date : 29-MAY-2024 12:26 Cal File: U052907.D
Als bottle: 7 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14

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	4.811	4.811	(1.000)	292016	50.0000	
2	Dichlorodifluoromethane	85	1.160	1.156	(0.241)	21269	20.0000	19.53(M)
3	Chloromethane	50	1.291	1.288	(0.268)	75709	20.0000	18.99
4	Propionitrile	54	4.335	4.339	(0.901)	64665	200.000	202.72(a)
5	Vinyl Chloride	62	1.374	1.366	(0.286)	42268	20.0000	19.16(M)
6	Bromomethane	94	1.610	1.595	(0.335)	21249	20.0000	20.91
7	Chloroethane	64	1.696	1.681	(0.353)	30548	20.0000	19.95(M)
8	Trichlorofluoromethane	101	1.891	1.884	(0.393)	51809	20.0000	19.78
9	Acrolein	56	2.262	2.259	(0.470)	3686	40.0000	34.83
10	Acetone	43	2.405	2.405	(0.500)	34500	40.0000	37.99
11	1,1-Dichloroethene	96	2.326	2.322	(0.483)	36260	20.0000	18.83
12	Isobutyl Alcohol	43	5.284	5.284	(1.098)	129741	400.000	421.04(a)
13	Acetonitrile	39	2.667	2.663	(0.554)	44875	200.000	189.44(a)
14	Allyl Chloride	41	2.667	2.667	(0.554)	113638	20.0000	20.02(a)
15	Iodomethane	142	2.461	2.457	(0.512)	7857	40.0000	40.10
16	Acrylonitrile	53	3.064	3.061	(0.637)	33195	40.0000	40.92
17	Methylene Chloride	84	2.787	2.783	(0.579)	47173	20.0000	20.35
18	Methyl tert-butyl ether	73	3.076	3.076	(0.639)	111071	20.0000	20.56
19	Carbon Disulfide	76	2.513	2.510	(0.522)	196920	40.0000	36.46
20	trans-1,2-Dichloroethene	96	3.053	3.050	(0.635)	40234	20.0000	18.48
21	Vinyl Acetate	43	4.339	4.339	(0.902)	49728	40.0000	38.64

22 1,1-Dichloroethane	63	3.507	3.507 (0.729)	74102	20.0000	17.72
23 Chloroprene	53	3.604	3.601 (0.749)	58943	20.0000	19.22

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052907.D Page 2
Report Date: 07-Jun-2024 10:54

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	24 2-Butanone	43	4.264	4.260	(0.886)	45052	40.0000	34.52
	25 Methacrylonitrile	41	4.493	4.489	(0.934)	26774	20.0000	20.40(a)
	26 2,2-Dichloropropane	77	4.178	4.174	(0.868)	50230	20.0000	18.30
	27 cis-1,2-Dichloroethene	96	4.193	4.189	(0.871)	48867	20.0000	18.17
	28 Chloroform	83	4.568	4.568	(0.949)	75736	20.0000	18.13
	29 Bromochloromethane	128	4.466	4.463	(0.928)	25140	20.0000	20.47
$	30 Dibromofluoromethane	113	4.744	4.744	(0.986)	36896	20.0000	19.88
	31 1,1,1-Trichloroethane	97	4.740	4.736	(0.985)	56115	20.0000	19.19
	32 1,1-Dichloropropene	75	4.916	4.916	(0.886)	54919	20.0000	17.79
	33 1,2-Dichloroethane	62	5.175	5.171	(0.932)	61258	20.0000	19.68(M)
	34 Carbon Tetrachloride	117	4.909	4.905	(0.885)	41556	20.0000	17.18(M)
$	35 1,2-Dichloroethane-d4	65	5.096	5.093	(1.059)	44846	20.0000	20.24
*	36 1,4-Difluorobenzene	114	5.550	5.550	(1.000)	426085	50.0000	
	37 Benzene	78	5.134	5.134	(0.925)	179684	20.0000	17.90
	38 Trichloroethene	130	5.786	5.786	(1.043)	45201	20.0000	18.29
	39 Bromodichloromethane	83	6.277	6.277	(1.131)	49558	20.0000	18.36
	40 Methyl Methacrylate	41	5.823	5.827	(1.210)	18720	20.0000	18.96(a)
	41 2-Chloroethylvinyl ether	63	6.573	6.573	(1.184)	28955	40.0000	35.85
	42 1,2-Dichloropropane	63	6.007	6.007	(1.082)	46935	20.0000	17.73(M)
	43 2-Nitropropane	43	6.506	6.506	(1.352)	7738	20.0000	17.08(M)
	44 Dibromomethane	93	6.116	6.116	(1.102)	27888	20.0000	18.14
	45 4-Methyl-2-Pentanone	43	6.851	6.851	(0.837)	95933	40.0000	38.32
	46 cis-1,3-Dichloropropene	75	6.689	6.690	(1.205)	62650	20.0000	18.44
*	47 Chlorobenzene-d5	117	8.181	8.185	(1.000)	379825	50.0000	
$	48 Toluene-d8	98	6.918	6.918	(0.846)	142140	20.0000	19.74
	49 Ethyl Methacrylate	69	7.289	7.289	(1.313)	58135	20.0000	17.63(a)
	50 Toluene	91	6.978	6.978	(0.853)	182476	20.0000	17.69
	51 trans-1,3-Dichloropropene	75	7.196	7.196	(1.296)	49938	20.0000	18.20
	52 2-Hexanone	43	7.589	7.589	(0.928)	58293	40.0000	36.78(M)
	53 1,1,2-Trichloroethane	83	7.353	7.353	(0.899)	36741	20.0000	20.21
	54 1,3-Dichloropropane	76	7.495	7.499	(0.916)	77361	20.0000	18.42
	55 Dibromochloromethane	129	7.690	7.690	(0.940)	39282	20.0000	18.55
	56 Tetrachloroethene	164	7.454	7.454	(0.911)	35021	20.0000	19.44
	57 1,2-Dibromoethane	107	7.784	7.784	(0.951)	42128	20.0000	18.57
	58 1-Chlorohexane	55	8.193	8.196	(1.476)	32677	20.0000	18.32
	59 Chlorobenzene	112	8.208	8.208	(1.003)	118600	20.0000	18.11
	60 1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	40089	20.0000	19.19
	61 Ethylbenzene	106	8.305	8.305	(1.015)	57981	20.0000	19.43
	62 m,p-Xylenes	106	8.406	8.406	(1.027)	153153	40.0000	39.11
	63 o-Xylene	106	8.744	8.744	(1.069)	74682	20.0000	19.51
	64 Styrene	104	8.759	8.759	(1.071)	120302	20.0000	19.13
	66 Bromoform	173	8.916	8.916	(1.090)	22868	20.0000	17.25
	67 Isopropylbenzene	105	9.059	9.059	(1.107)	174459	20.0000	19.24
	68 1,1,2,2-Tetrachloroethane	83	9.325	9.329	(0.917)	61275	20.0000	18.22
$	69 4-Bromofluorobenzene	95	9.190	9.190	(1.123)	52184	20.0000	19.69
*	70 1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	202258	50.0000	
	71 1,2,3-Trichloropropane	75	9.359	9.362	(0.920)	56598	20.0000	17.95(M)
	72 trans-1,4-Dichloro-2-butene	53	9.377	9.377	(1.146)	11099	20.0000	17.10(a)
	73 n-Propylbenzene	91	9.411	9.411	(0.926)	203284	20.0000	18.65
	74 Bromobenzene	156	9.317	9.317	(0.916)	51049	20.0000	18.35
	75 1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	146220	20.0000	19.84
	76 2-Chlorotoluene	91	9.478	9.482	(0.932)	128707	20.0000	20.27

77 4-Chlorotoluene	91	9.576	9.576 (0.942)	146924	20.0000	18.77
78 tert-Butylbenzene	119	9.835	9.835 (0.967)	121457	20.0000	19.84(M)

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Report Date: 07-Jun-2024 10:54

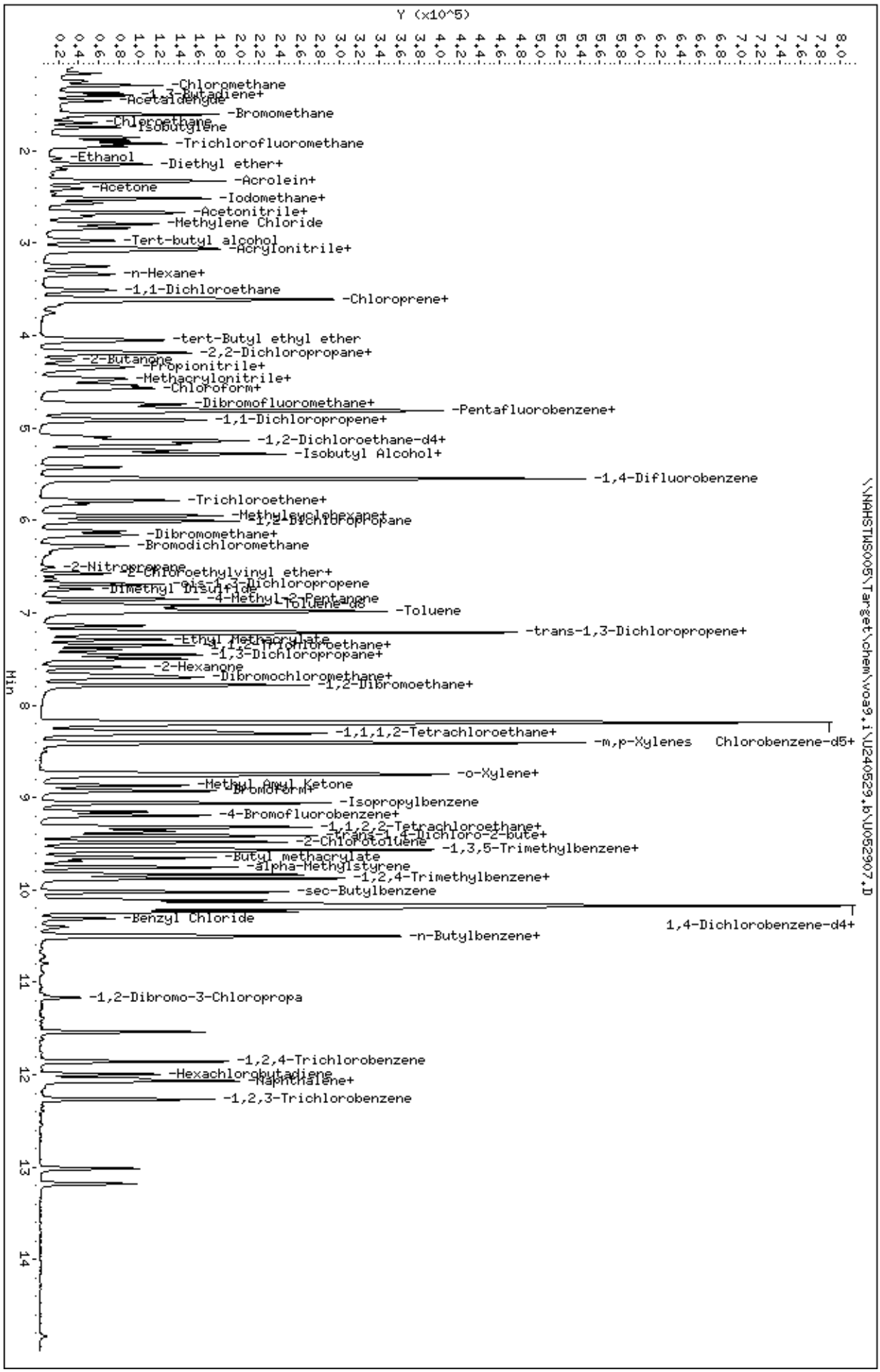
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
79	1,2,4-Trimethylbenzene	105	9.876	9.876	(0.971)	154144	20.0000	19.41
81	sec-Butylbenzene	105	10.022	10.022	(0.986)	163132	20.0000	19.64
82	p-Isopropyltoluene	119	10.146	10.146	(0.998)	140705	20.0000	19.44
83	1,3-Dichlorobenzene	146	10.112	10.116	(0.994)	87097	20.0000	18.54(M)
84	1,4-Dichlorobenzene	146	10.191	10.191	(1.002)	93031	20.0000	17.88
86	Benzyl Chloride	91	10.311	10.311	(1.260)	47617	20.0000	16.69
87	n-Butylbenzene	91	10.491	10.491	(1.032)	121510	20.0000	19.14
88	1,2-Dichlorobenzene	146	10.506	10.502	(1.033)	89111	20.0000	18.31(M)
89	1,2-Dibromo-3-Chloropropane	155	11.165	11.165	(1.098)	6942	20.0000	17.33
90	1,2,4-Trichlorobenzene	180	11.855	11.855	(1.166)	56836	20.0000	18.53
91	Hexachlorobutadiene	225	11.994	11.998	(1.180)	23031	20.0000	18.72
92	Naphthalene	128	12.065	12.065	(1.187)	140782	20.0000	19.13
93	1,2,3-Trichlorobenzene	180	12.267	12.268	(1.206)	54136	20.0000	18.95
146	Methyl acetate	43	2.712	2.708	(0.564)	45615	20.0000	19.89
138	Freon TF	101	2.330	2.326	(0.484)	30656	20.0000	19.51
141	Cyclohexane	56	4.778	4.778	(0.993)	54972	20.0000	19.46
142	Tetrahydrofuran	42	4.541	4.542	(0.944)	17078	40.0000	40.52
147	Methylcyclohexane	55	5.943	5.944	(1.071)	94734	20.0000	18.74
135	1,4-Dioxane	88	6.165	6.168	(1.281)	12564	400.000	418.30
132	n-Butanol	56	5.823	5.827	(1.210)	25909	400.000	329.35(a)
136	n-Hexane	57	3.334	3.331	(0.693)	36389	20.0000	19.45
139	Diethyl ether	59	2.142	2.139	(0.445)	31782	20.0000	20.77
148	Tert-butyl alcohol	59	2.971	2.975	(0.617)	82537	400.000	410.19
149	Isopropyl alcohol	45	2.566	2.570	(0.533)	63121	400.000	402.56
152	Amyl alcohol	42	7.398	7.398	(0.904)	29249	400.000	369.70
156	Diisopropyl ether	45	3.619	3.619	(0.752)	137423	20.0000	18.43(T)
162	Butyl acrylate	55	8.732	8.733	(1.067)	72944	20.0000	18.93
187	n-Amyl acetate	43	8.927	8.931	(1.091)	75375	20.0000	18.27
164	Dicyclopentadiene	66	10.198	10.198	(1.003)	183560	20.0000	17.69
166	1,2,3-Trimethylbenzene	105	10.232	10.232	(1.006)	132826	20.0000	19.29
167	Ethanol	45	2.082	2.086	(0.433)	12109	400.000	410.16
172	tert-Butyl formate	59	5.242	5.250	(1.090)	82116	40.0000	35.59
173	3,3-Dimethyl-1-butanol	57	7.780	7.784	(0.951)	93954	400.000	355.38
174	tert-Amyl methyl ether	73	5.284	5.284	(1.098)	126677	20.0000	18.53
175	tert-Butyl ethyl ether	59	4.047	4.047	(0.841)	122465	20.0000	18.33
176	tert-Amyl alcohol	59	5.242	5.250	(1.090)	82116	400.000	351.89
151	4-Methyl-2-pentanol	45	7.214	7.222	(1.300)	254940	400.000	382.44
140	1,3-Butadiene	54	1.400	1.396	(0.291)	21066	20.0000	19.49
182	Epichlorohydrin	57	6.629	6.630	(1.195)	10404	80.0000	73.59
M 94	1,2-Dichloroethylene (total)	96				89101	40.0000	(a)
145	alpha-Methylstyrene	118	9.752	9.752	(0.959)	56994	20.0000	19.11
130	Ethyl Acetate	43	4.339	4.339	(0.902)	50101	20.0000	18.62
131	Methyl Acrylate	55	4.369	4.365	(0.908)	52347	20.0000	19.68
189	n-Butyl acetate	43	7.705	7.702	(0.942)	71056	20.0000	17.81
134	Cyclohexanone	55	9.152	9.152	(0.900)	42427	400.000	378.08(a)
185	Isoprene	39	2.150	2.146	(0.447)	8609	20.0000	19.26
188	Isopropyl acetate	43	5.284	5.284	(0.952)	130382	20.0000	18.44
150	Allyl alcohol	57	3.334	3.331	(0.693)	36389	400.000	389.18
194	Acetaldehyde	44	1.456	1.453	(0.303)	37005	80.0000	77.86(M)
195	Methyl Amyl Ketone	43	8.867	8.868	(1.084)	82259	20.0000	17.77
200	Dimethyl Disulfide	94	6.742	6.746	(0.824)	20022	20.0000	14.89
202	Isobutylene	41	1.745	1.734	(0.363)	17507	20.0000	19.58(M)

133 Ethyl Acrylate	55	5.943	5.944 (1.235)	94734	20.0000	18.98
163 Butyl methacrylate	41	9.647	9.647 (0.949)	43733	20.0000	18.68(M)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
159 Propylene oxide	43	2.199	2.191	(0.457)	6665	40.0000	39.75
203 2-Ethylhexyl Acrylate	55	12.039	12.039	(1.184)	37971	20.0000	16.65

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\voa9.i\U240529.b\U052907.D
Date : 29-MAY-2024 12:26
Client ID: VSTD020
Sample Info: VSTD020;VSTD020;1;6
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9.i
Operator: FT
Column diameter: 0.18

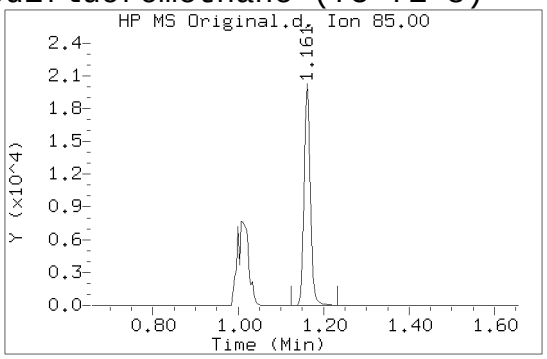
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Inj Date : 29-MAY-2024 12:26
InstruID : VOA9.i
LabSampID : VSTD020

Dichlorodifluoromethane (75-71-8)

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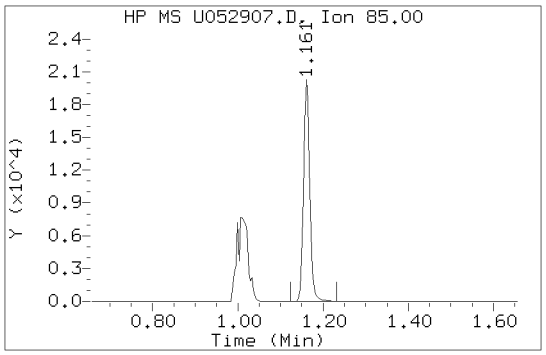
BEFORE

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21269
HEIGHT
20272
06-Jun-2024
17:10
s
zaid



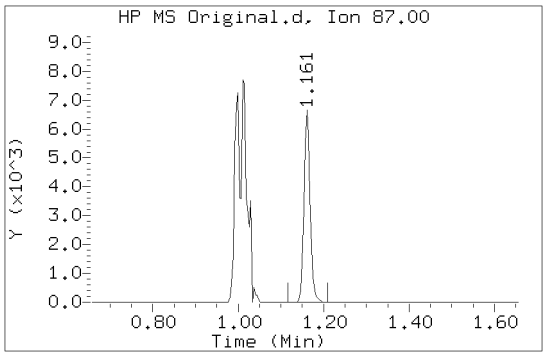
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07-Jun-2024
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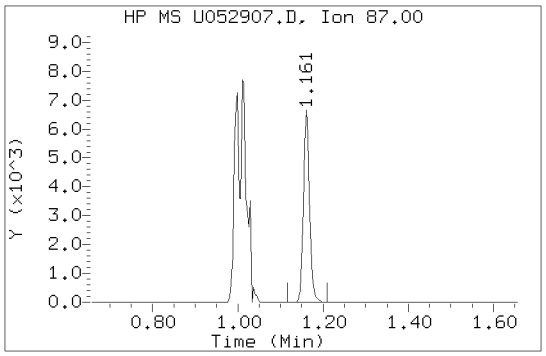
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6651
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zaid



AFTER

MASS
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07-Jun-2024
10:36

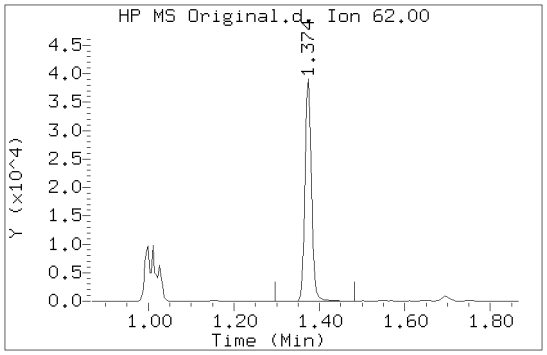


Vinyl Chloride (75-01-4)

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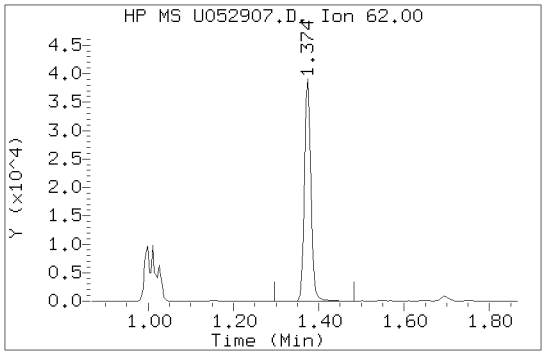
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17:10
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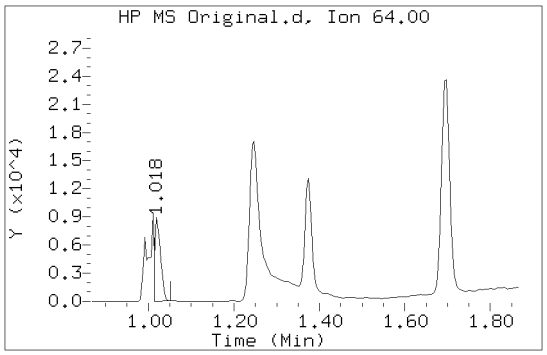
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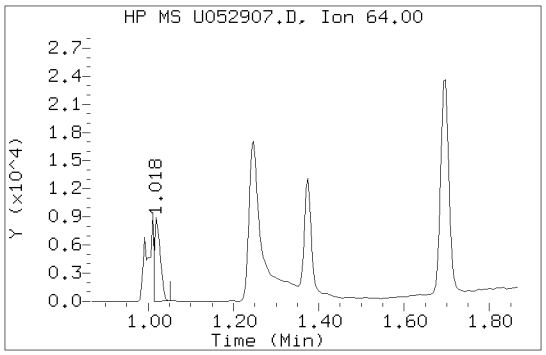
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8930
06-Jun-2024
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zaid



AFTER

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07-Jun-2024
10:36

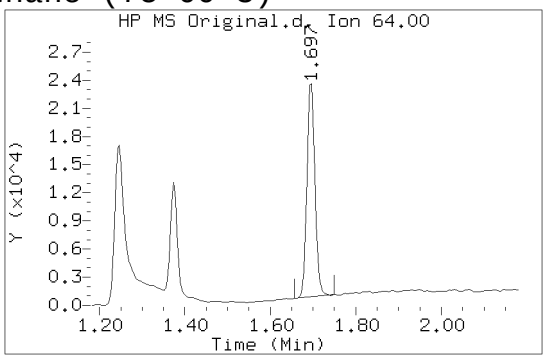


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Inj Date : 29-MAY-2024 12:26
InstruID : VOA9.i
LabSampID : VSTD020

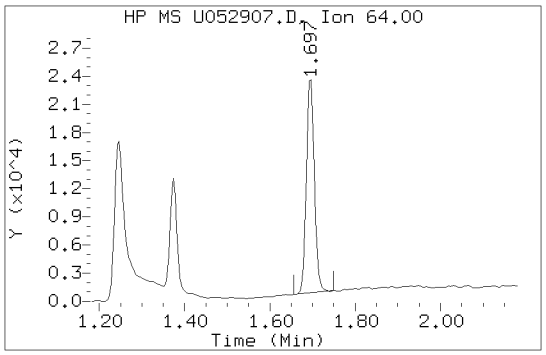
Chloroethane (75-00-3)

Reason Code:

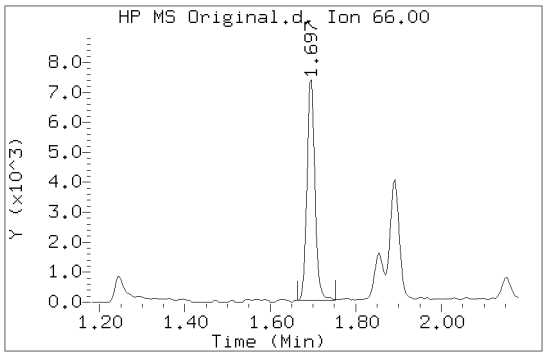
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06-Jun-2024
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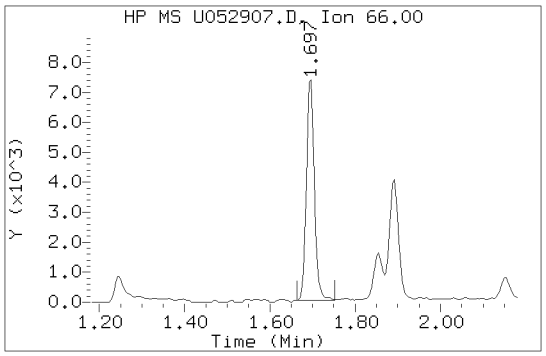
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BEFORE
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06-Jun-2024
17:10
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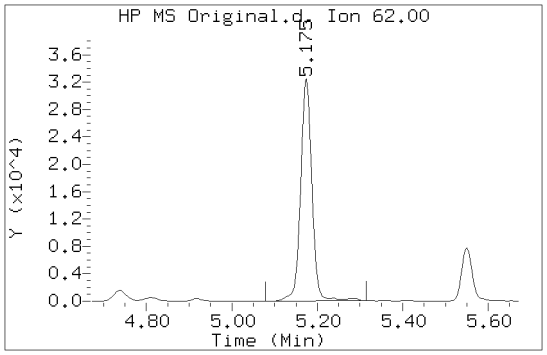
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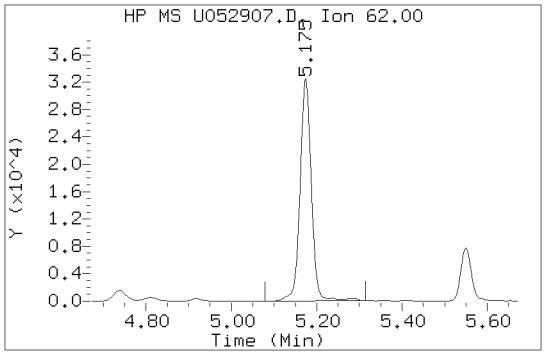
1,2-Dichloroethane (107-06-2)

Reason Code:

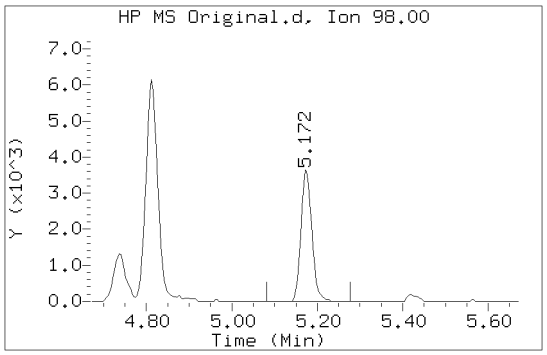
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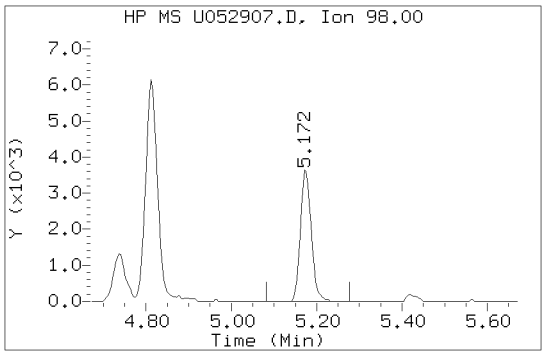
AFTER
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62
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HEIGHT
32428
07-Jun-2024
10:36



BEFORE
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98
AREA
6601
HEIGHT
3643
06-Jun-2024
17:10
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zaid



AFTER
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98
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6601
HEIGHT
3643
07-Jun-2024
10:36

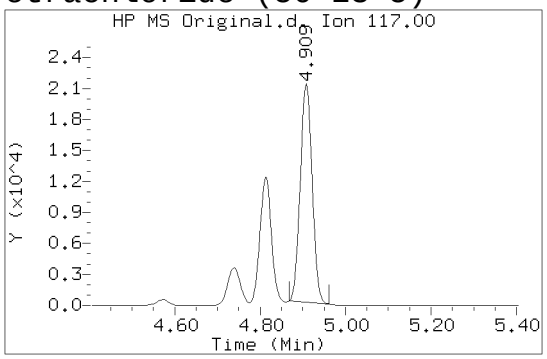


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InstruID : VOA9.i
LabSampID : VSTD020

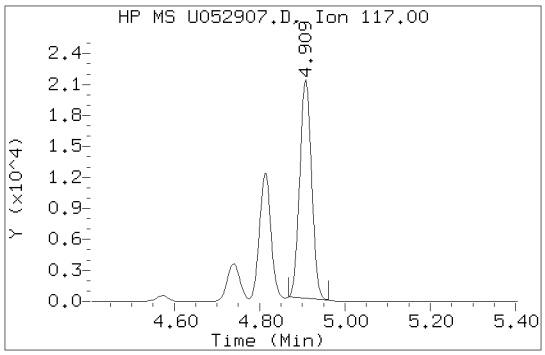
Carbon Tetrachloride (56-23-5)

Reason Code:

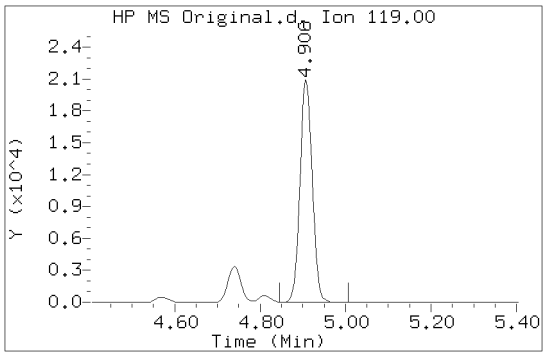
BEFORE
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41556
HEIGHT
21156
06-Jun-2024
17:10
s
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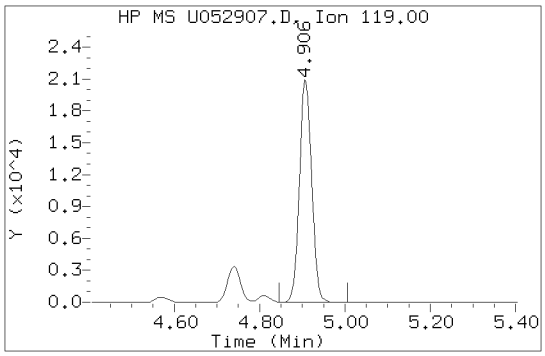
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HEIGHT
21156
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BEFORE
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AREA
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HEIGHT
20912
06-Jun-2024
17:10
s
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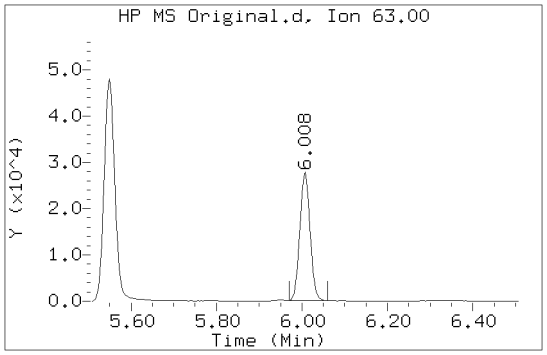
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07-Jun-2024
10:36



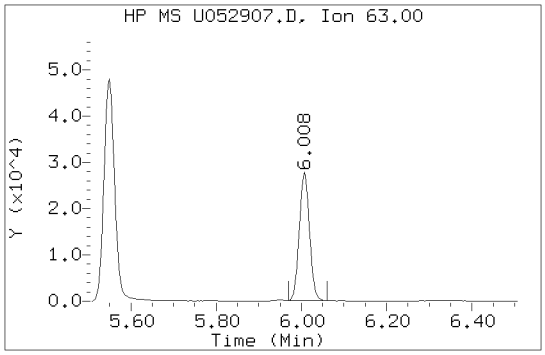
1,2-Dichloropropane (78-87-5)

Reason Code:

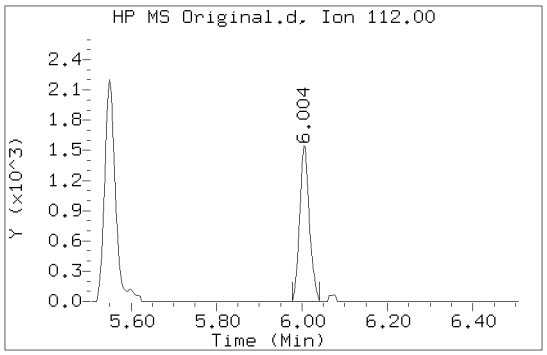
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HEIGHT
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06-Jun-2024
17:10
s
zaid



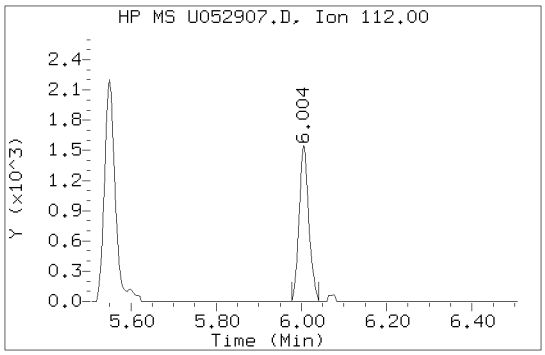
AFTER
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07-Jun-2024
10:36



BEFORE
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112
AREA
2503
HEIGHT
1549
06-Jun-2024
17:10
s
zaid



AFTER
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HEIGHT
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07-Jun-2024
10:36

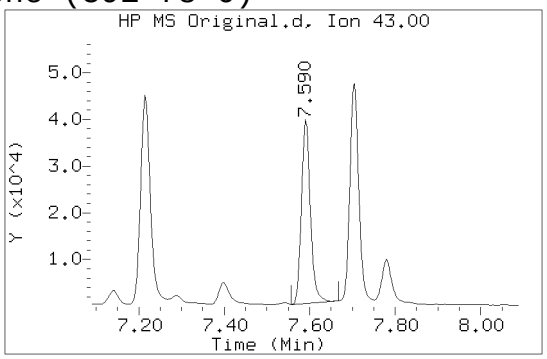


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Inj Date : 29-MAY-2024 12:26
InstruID : VOA9.i
LabSampID : VSTD020

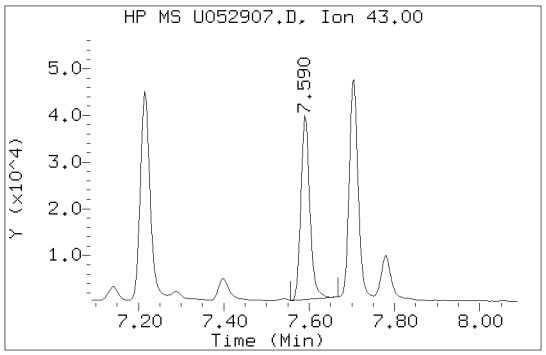
2-Hexanone (591-78-6)

Reason Code:

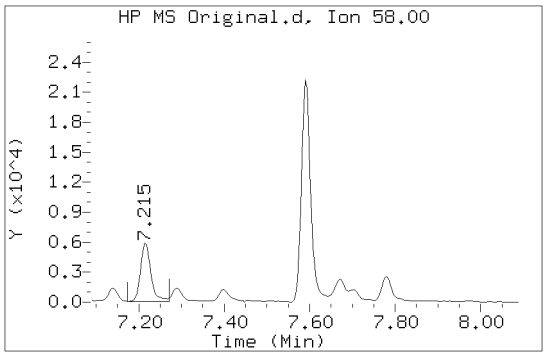
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39415
06-Jun-2024
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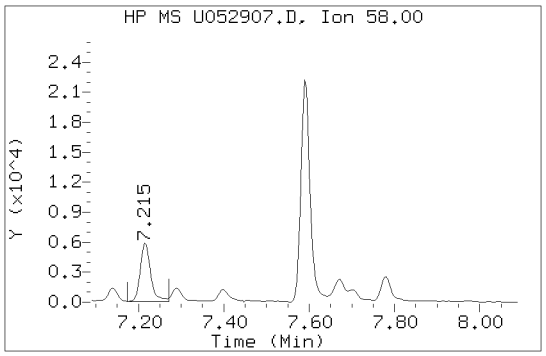
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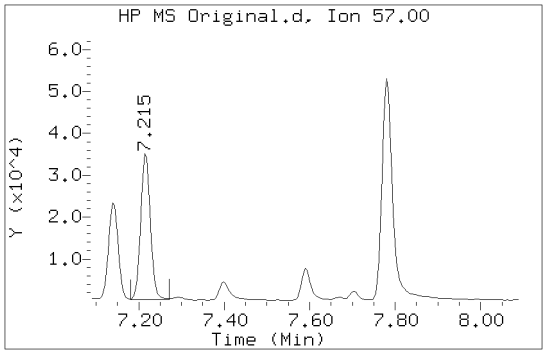
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HEIGHT
5845
06-Jun-2024
17:10
s
zaid



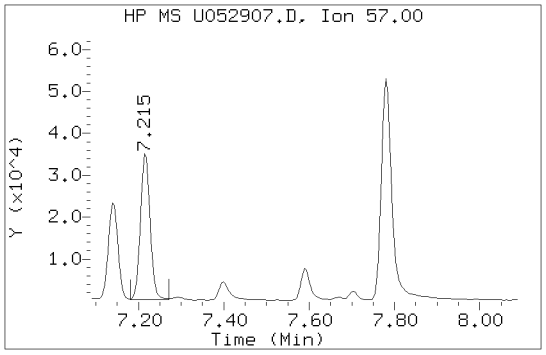
AFTER
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BEFORE
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34893
06-Jun-2024
17:10
s
zaid



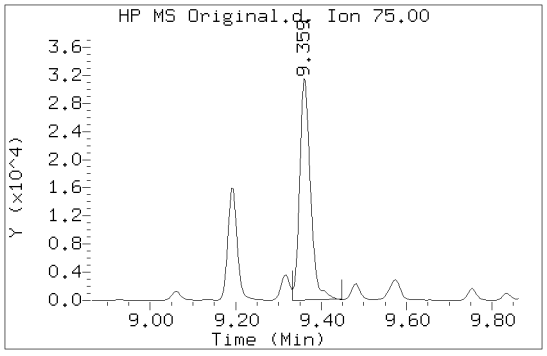
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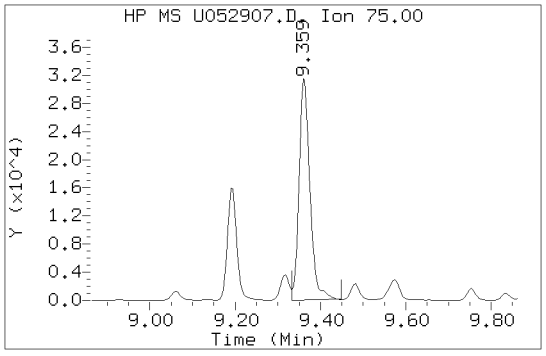
1,2,3-Trichloropropane (96-18-4)

Reason Code:

BEFORE
MASS
75
AREA
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HEIGHT
31439
06-Jun-2024
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zaid



AFTER
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56598
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07-Jun-2024
10:36



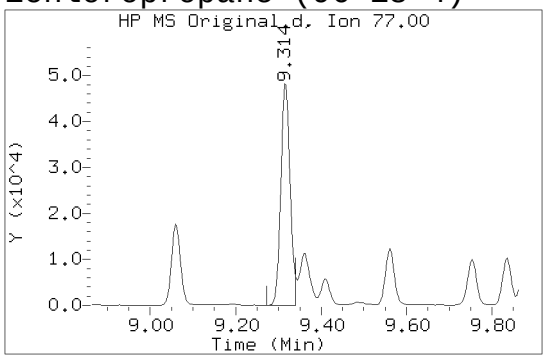
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Inj Date : 29-MAY-2024 12:26
InstruID : VOA9.i
LabSampID : VSTD020

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

Reason Code:

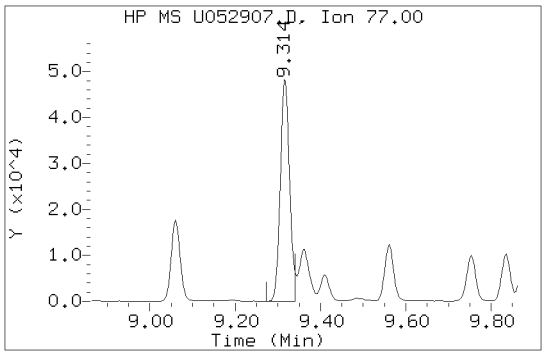
BEFORE

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77
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73236
HEIGHT
48224
06-Jun-2024
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s
zaid



AFTER

MASS
77
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73236
HEIGHT
48224
07-Jun-2024
10:36

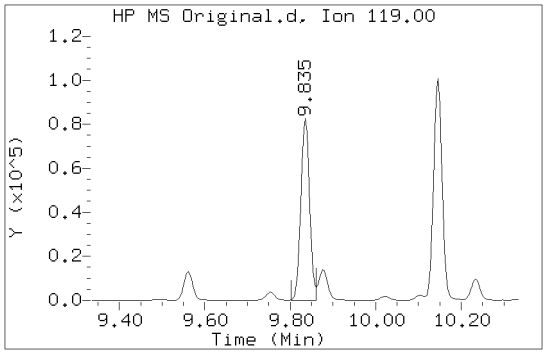


tert-Butylbenzene (98-06-6)

Reason Code:

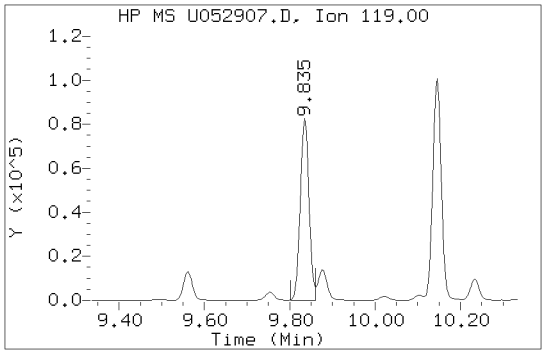
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HEIGHT
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06-Jun-2024
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s
zaid



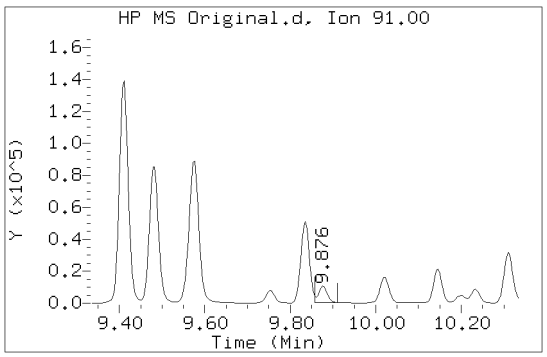
AFTER

MASS
119
AREA
121457
HEIGHT
82870
07-Jun-2024
10:36



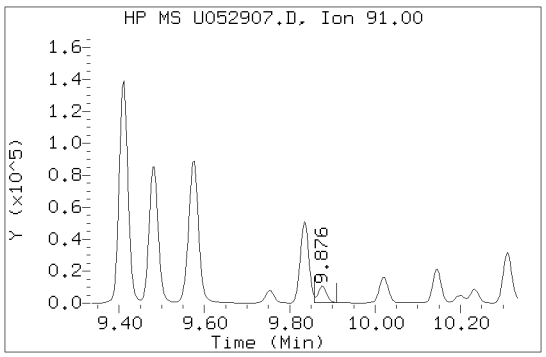
BEFORE

MASS
91
AREA
15283
HEIGHT
10471
06-Jun-2024
17:10
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zaid



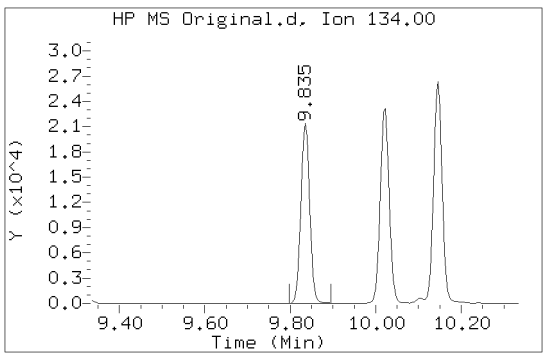
AFTER

MASS
91
AREA
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10471
07-Jun-2024
10:36



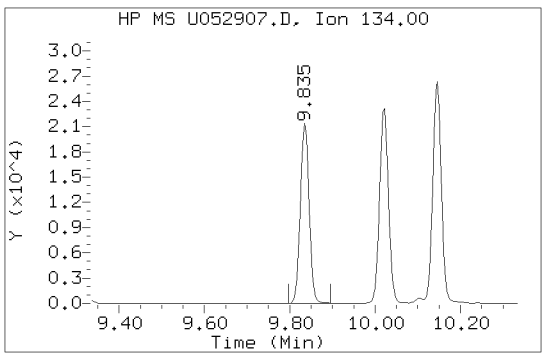
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134
AREA
31454
HEIGHT
21424
06-Jun-2024
17:10
s
zaid



AFTER

MASS
134
AREA
31454
HEIGHT
21424
07-Jun-2024
10:36



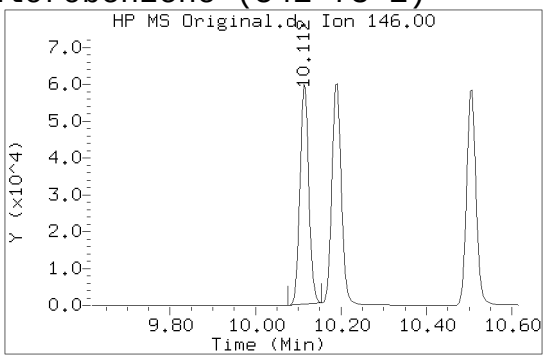
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Inj Date : 29-MAY-2024 12:26
InstruID : VOA9.i
LabSampID : VSTD020

1,3-Dichlorobenzene (541-73-1)

Reason Code:

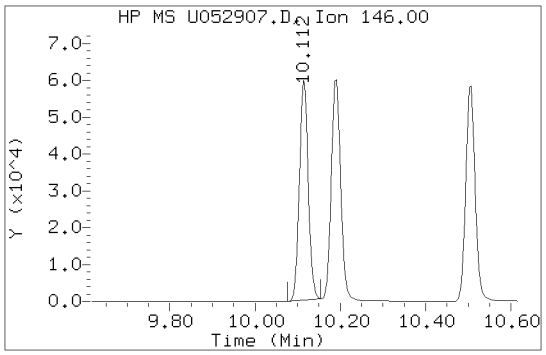
BEFORE

MASS
146
AREA
87097
HEIGHT
59633
06-Jun-2024
17:10
s
zaid



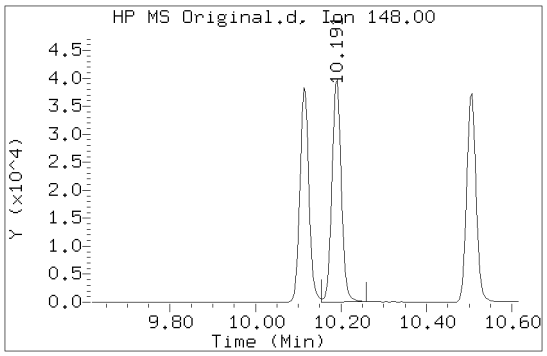
AFTER

MASS
146
AREA
87097
HEIGHT
59633
07-Jun-2024
10:36



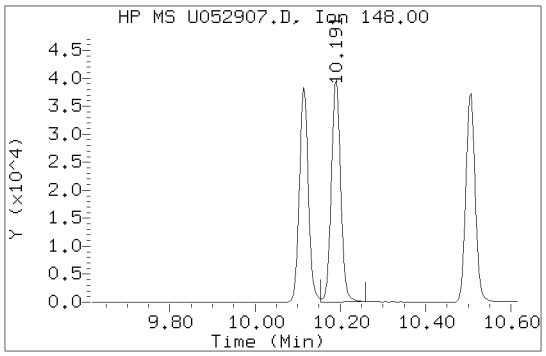
BEFORE

MASS
148
AREA
60382
HEIGHT
39659
06-Jun-2024
17:10
s
zaid



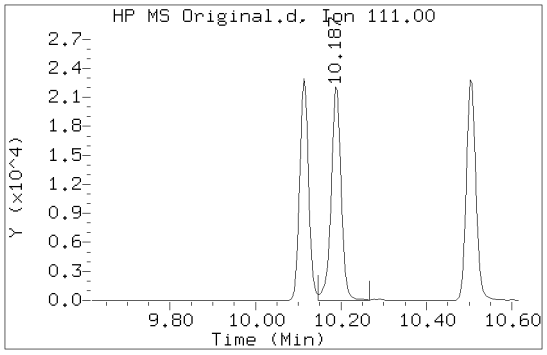
AFTER

MASS
148
AREA
60382
HEIGHT
39659
07-Jun-2024
10:36



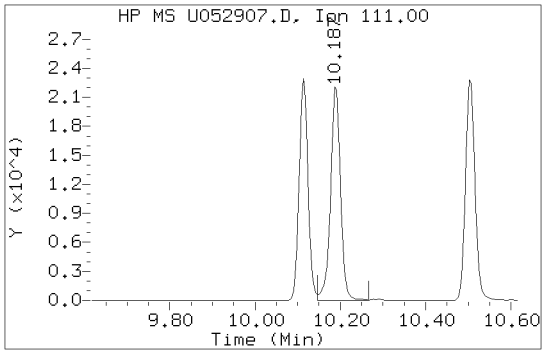
BEFORE

MASS
111
AREA
35846
HEIGHT
22056
06-Jun-2024
17:10
s
zaid



AFTER

MASS
111
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07-Jun-2024
10:36

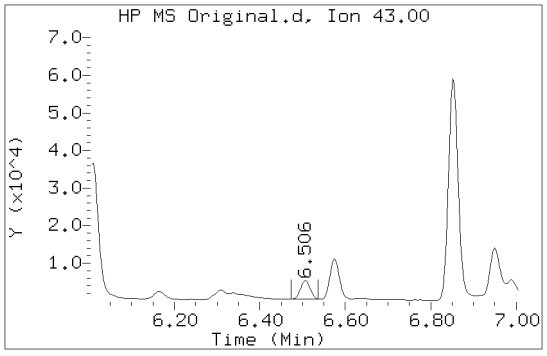


2-Nitropropane (79-46-9)

Reason Code:

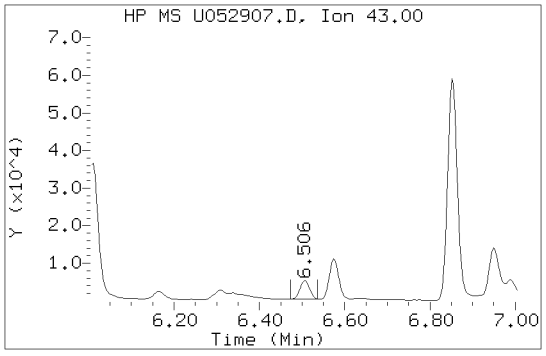
BEFORE

MASS
43
AREA
7738
HEIGHT
4969
06-Jun-2024
17:10
s
zaid



AFTER

MASS
43
AREA
7738
HEIGHT
4969
07-Jun-2024
10:36



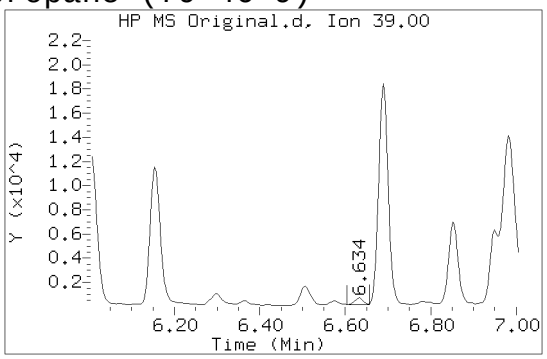
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052907.D
Inj Date : 29-MAY-2024 12:26
InstruID : VOA9.i
LabSampID : VSTD020

2-Nitropropane (79-46-9)

Reason Code:

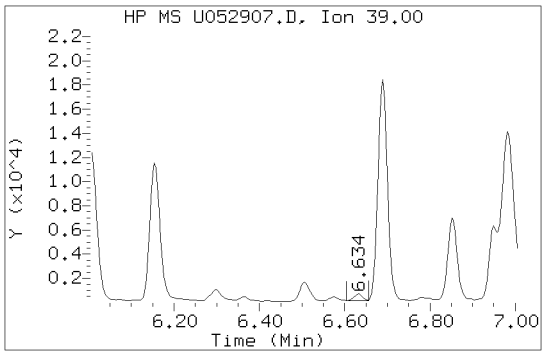
BEFORE

MASS
39
AREA
728
HEIGHT
546
06-Jun-2024
17:10
s
zaid



AFTER

MASS
39
AREA
728
HEIGHT
546
07-Jun-2024
10:36

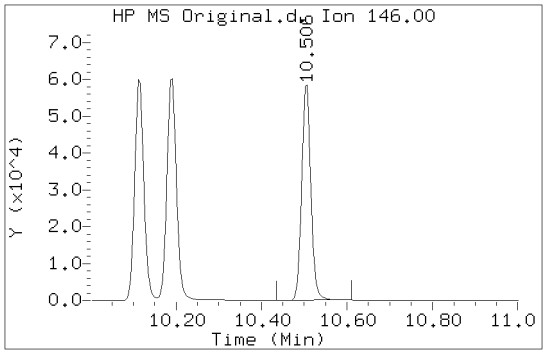


1,2-Dichlorobenzene (95-50-1)

Reason Code:

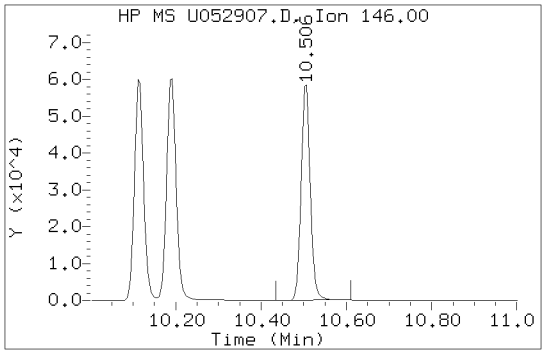
BEFORE

MASS
146
AREA
89111
HEIGHT
58332
06-Jun-2024
17:10
s
zaid



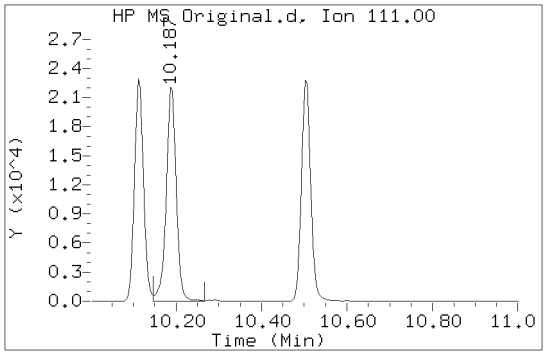
AFTER

MASS
146
AREA
89111
HEIGHT
58332
07-Jun-2024
10:36



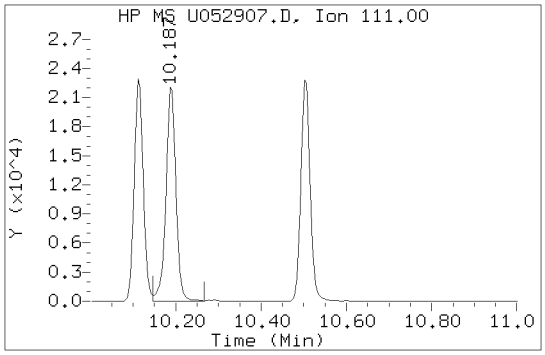
BEFORE

MASS
111
AREA
35846
HEIGHT
22056
06-Jun-2024
17:10
s
zaid



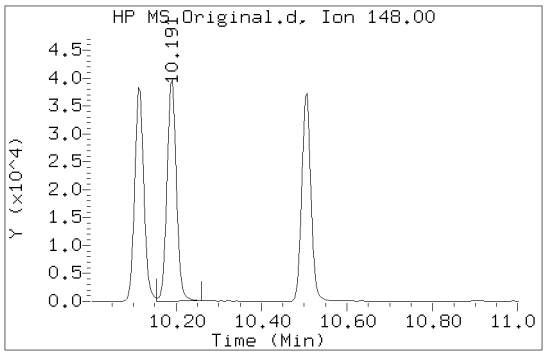
AFTER

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111
AREA
35846
HEIGHT
22056
07-Jun-2024
10:36



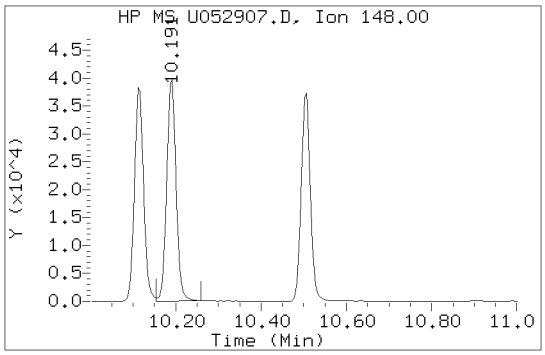
BEFORE

MASS
148
AREA
60382
HEIGHT
39659
06-Jun-2024
17:10
s
zaid



AFTER

MASS
148
AREA
60382
HEIGHT
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07-Jun-2024
10:36



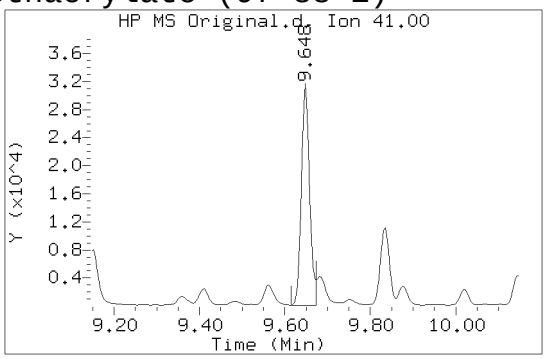
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052907.D
Inj Date : 29-MAY-2024 12:26
InstruID : VOA9.i
LabSampID : VSTD020

Butyl methacrylate (97-88-1)

Reason Code:

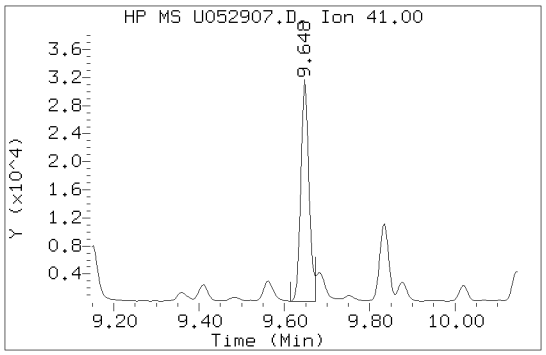
BEFORE

MASS
41
AREA
43733
HEIGHT
31570
06-Jun-2024
17:10
s
zaid



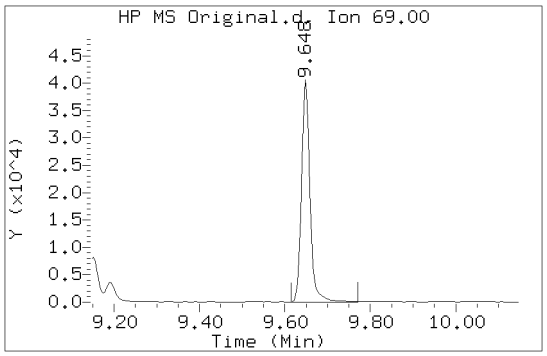
AFTER

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41
AREA
43733
HEIGHT
31570
07-Jun-2024
10:36



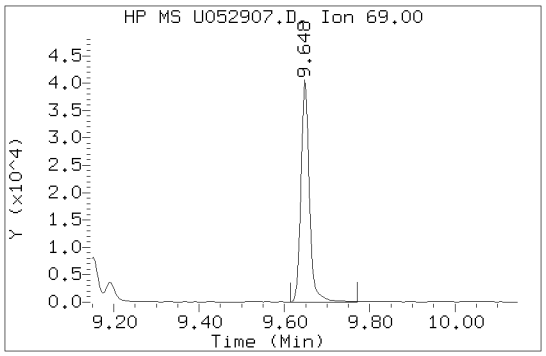
BEFORE

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69
AREA
57826
HEIGHT
40584
06-Jun-2024
17:10
s
zaid



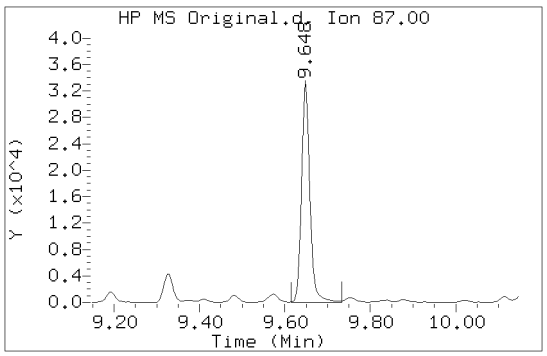
AFTER

MASS
69
AREA
57826
HEIGHT
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07-Jun-2024
10:36



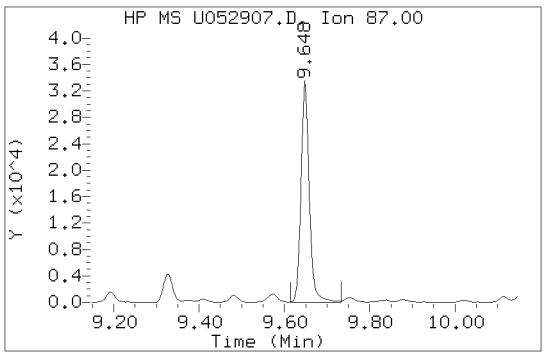
BEFORE

MASS
87
AREA
46583
HEIGHT
33536
06-Jun-2024
17:10
s
zaid



AFTER

MASS
87
AREA
46583
HEIGHT
33536
07-Jun-2024
10:36

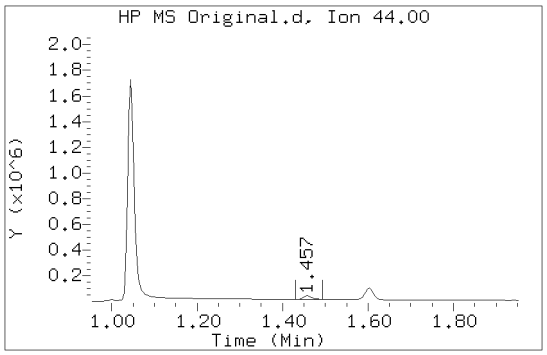


Acetaldehyde (75-07-0)

Reason Code:

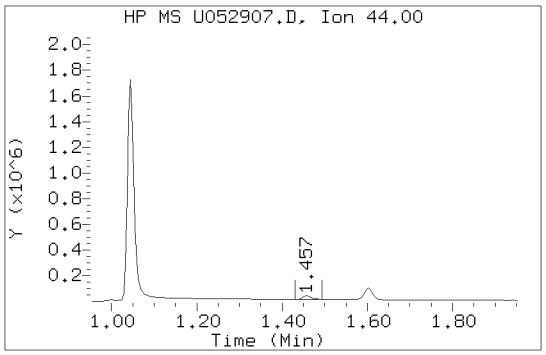
BEFORE

MASS
44
AREA
37005
HEIGHT
27626
06-Jun-2024
17:10
s
zaid



AFTER

MASS
44
AREA
37005
HEIGHT
27626
07-Jun-2024
10:36

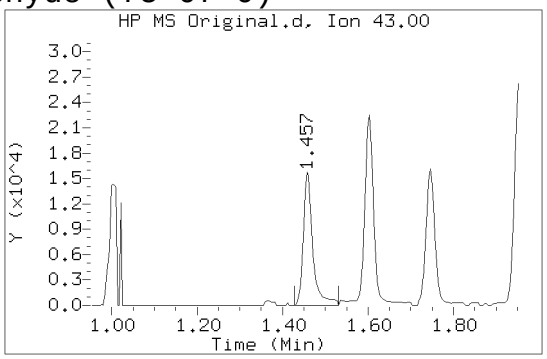


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Inj Date : 29-MAY-2024 12:26
InstruID : VOA9.i
LabSampID : VSTD020

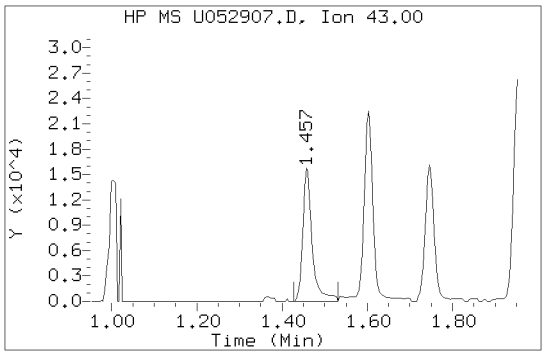
Acetaldehyde (75-07-0)

Reason Code:

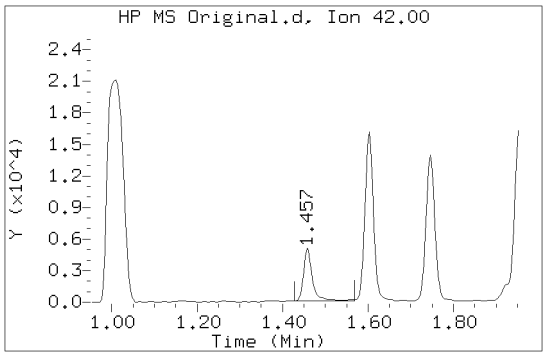
BEFORE
MASS
43
AREA
24828
HEIGHT
15770
06-Jun-2024
17:10
s
zaid



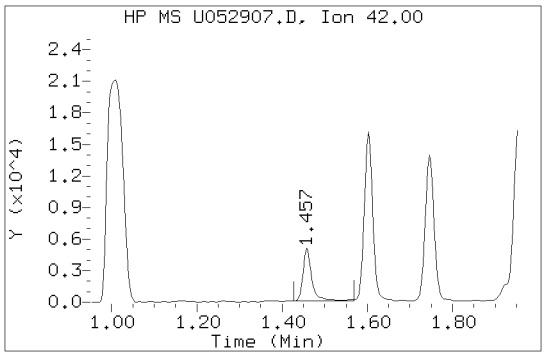
AFTER
MASS
43
AREA
24828
HEIGHT
15770
07-Jun-2024
10:36



BEFORE
MASS
42
AREA
7518
HEIGHT
5023
06-Jun-2024
17:10
s
zaid



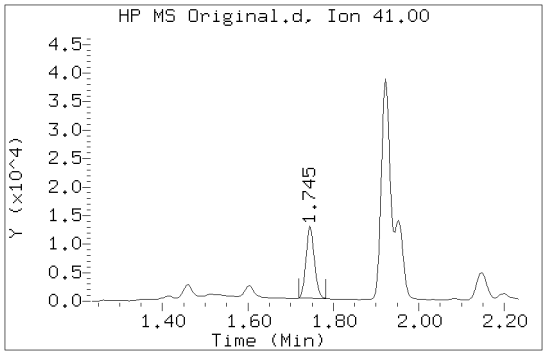
AFTER
MASS
42
AREA
7518
HEIGHT
5023
07-Jun-2024
10:36



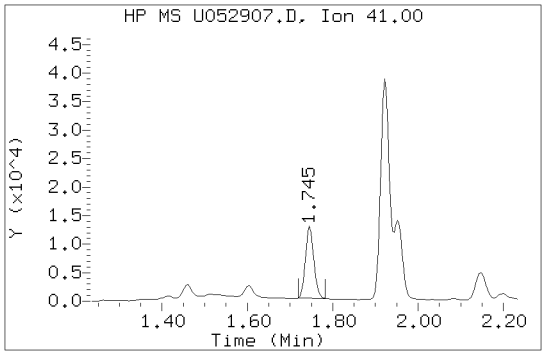
Isobutylene (115-11-7)

Reason Code:

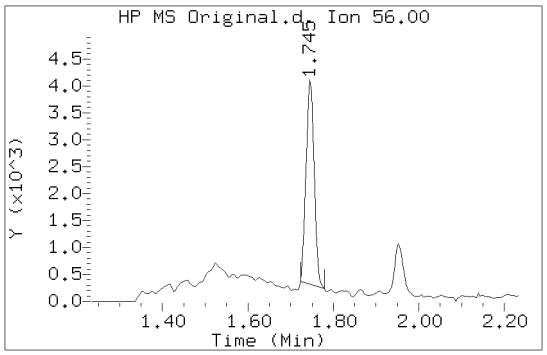
BEFORE
MASS
41
AREA
17507
HEIGHT
12653
06-Jun-2024
17:10
s
zaid



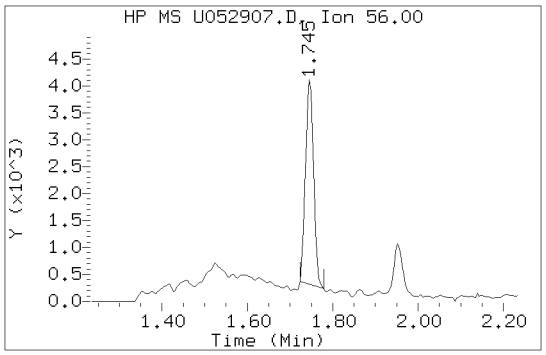
AFTER
MASS
41
AREA
17507
HEIGHT
12653
07-Jun-2024
10:36



BEFORE
MASS
56
AREA
5165
HEIGHT
3796
06-Jun-2024
17:10
s
zaid



AFTER
MASS
56
AREA
5165
HEIGHT
3796
07-Jun-2024
10:36



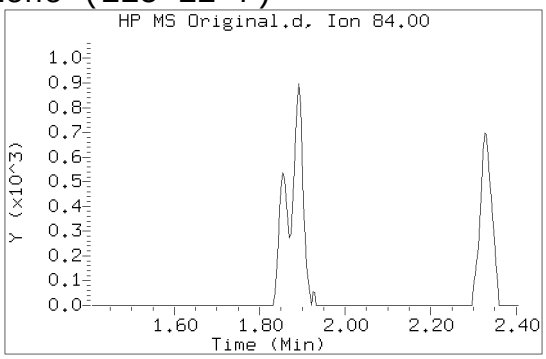
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Inj Date : 29-MAY-2024 12:26
InstruID : VOA9.i
LabSampID : VSTD020

Isobutylene (115-11-7)

Reason Code:

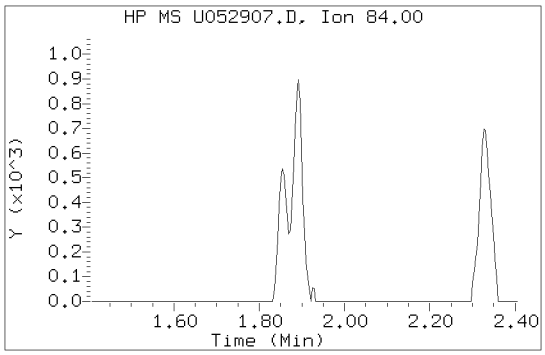
BEFORE

MASS
84
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



AFTER

MASS
84
AREA
0
HEIGHT
0
07-Jun-2024
10:36



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052908.D Page 1
Report Date: 07-Jun-2024 10:54

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052908.D
Lab Smp Id: VSTD050 Client Smp ID: VSTD050
Inj Date : 29-MAY-2024 12:48
Operator : FT Inst ID: VOA9.i
Smp Info : VSTD050;VSTD050;1;7
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240529.b\8260C.m
Meth Date : 07-Jun-2024 10:14 r.patel Quant Type: ISTD
Cal Date : 29-MAY-2024 12:48 Cal File: U052908.D
Als bottle: 8 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14

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	4.808	4.811	(1.000)	288116	50.0000	
2	Dichlorodifluoromethane	85	1.157	1.156	(0.241)	54539	50.0000	50.77(M)
3	Chloromethane	50	1.288	1.288	(0.268)	187210	50.0000	48.70
4	Propionitrile	54	4.332	4.339	(0.901)	161164	500.000	509.59
5	Vinyl Chloride	62	1.367	1.366	(0.284)	103673	50.0000	47.65(M)
6	Bromomethane	94	1.603	1.595	(0.333)	48410	50.0000	50.94
7	Chloroethane	64	1.689	1.681	(0.351)	75481	50.0000	49.59(M)
8	Trichlorofluoromethane	101	1.888	1.884	(0.393)	132049	50.0000	51.10
9	Acrolein	56	2.255	2.259	(0.469)	10580	100.000	104.37
10	Acetone	43	2.401	2.405	(0.499)	82879	100.000	95.59
11	1,1-Dichloroethene	96	2.322	2.322	(0.483)	89402	50.0000	47.07
12	Isobutyl Alcohol	43	5.280	5.284	(1.098)	318836	1000.00	1035.86
13	Acetonitrile	39	2.664	2.663	(0.554)	111325	500.000	476.33
14	Allyl Chloride	41	2.664	2.667	(0.554)	277594	50.0000	49.14
15	Iodomethane	142	2.457	2.457	(0.511)	23240	100.000	99.99
16	Acrylonitrile	53	3.057	3.061	(0.636)	79503	100.000	99.35
17	Methylene Chloride	84	2.784	2.783	(0.579)	111343	50.0000	50.01
18	Methyl tert-butyl ether	73	3.072	3.076	(0.639)	265805	50.0000	49.79
19	Carbon Disulfide	76	2.510	2.510	(0.522)	506931	100.000	95.14
20	trans-1,2-Dichloroethene	96	3.050	3.050	(0.634)	98677	50.0000	45.94
21	Vinyl Acetate	43	4.335	4.339	(0.902)	125689	100.000	98.99

22 1,1-Dichloroethane	63	3.503	3.507 (0.729)	182996	50.0000	44.35
23 Chloroprene	53	3.601	3.601 (0.749)	148738	50.0000	49.16

			QUANT SIG					AMOUNTS	
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)
	24	2-Butanone	43	4.260	4.260	(0.886)	117518	100.000	91.27
	25	Methacrylonitrile	41	4.489	4.489	(0.934)	64217	50.0000	48.82(a)
	26	2,2-Dichloropropane	77	4.174	4.174	(0.868)	132525	50.0000	48.93
	27	cis-1,2-Dichloroethene	96	4.189	4.189	(0.871)	120897	50.0000	45.57
	28	Chloroform	83	4.568	4.568	(0.950)	188949	50.0000	45.86
	29	Bromochloromethane	128	4.463	4.463	(0.928)	59781	50.0000	48.97
$	30	Dibromofluoromethane	113	4.744	4.744	(0.987)	91670	50.0000	50.06
	31	1,1,1-Trichloroethane	97	4.737	4.736	(0.985)	145269	50.0000	50.35
	32	1,1-Dichloropropene	75	4.917	4.916	(0.886)	141561	50.0000	47.35
	33	1,2-Dichloroethane	62	5.171	5.171	(0.932)	149897	50.0000	48.82(M)
	34	Carbon Tetrachloride	117	4.905	4.905	(0.884)	115100	50.0000	49.15(M)
$	35	1,2-Dichloroethane-d4	65	5.093	5.093	(1.059)	104957	50.0000	47.42
*	36	1,4-Difluorobenzene	114	5.546	5.550	(1.000)	412722	50.0000	
	37	Benzene	78	5.134	5.134	(0.926)	439845	50.0000	45.24
	38	Trichloroethene	130	5.782	5.786	(1.043)	113966	50.0000	47.63
	39	Bromodichloromethane	83	6.274	6.277	(1.131)	129113	50.0000	49.38
	40	Methyl Methacrylate	41	5.820	5.827	(1.210)	48081	50.0000	47.74
	41	2-Chloroethylvinyl ether	63	6.573	6.573	(1.185)	81655	100.000	95.00
	42	1,2-Dichloropropane	63	6.004	6.007	(1.082)	115748	50.0000	45.14(M)
	43	2-Nitropropane	43	6.506	6.506	(1.353)	22745	50.0000	45.97(M)
	44	Dibromomethane	93	6.116	6.116	(1.103)	69793	50.0000	46.87
	45	4-Methyl-2-Pentanone	43	6.851	6.851	(0.837)	249783	100.000	100.20
	46	cis-1,3-Dichloropropene	75	6.686	6.690	(1.205)	171538	50.0000	49.52
*	47	Chlorobenzene-d5	117	8.182	8.185	(1.000)	369629	50.0000	
$	48	Toluene-d8	98	6.918	6.918	(0.846)	337359	50.0000	47.87
	49	Ethyl Methacrylate	69	7.289	7.289	(1.314)	147001	50.0000	46.04
	50	Toluene	91	6.978	6.978	(0.853)	446323	50.0000	44.48
	51	trans-1,3-Dichloropropene	75	7.192	7.196	(1.297)	138911	50.0000	48.98
	52	2-Hexanone	43	7.589	7.589	(0.928)	156001	100.000	96.32(M)
	53	1,1,2-Trichloroethane	83	7.353	7.353	(0.899)	88934	50.0000	50.43
	54	1,3-Dichloropropane	76	7.496	7.499	(0.916)	190952	50.0000	46.72
	55	Dibromochloromethane	129	7.691	7.690	(0.940)	106831	50.0000	49.30
	56	Tetrachloroethene	164	7.454	7.454	(0.911)	86772	50.0000	49.51
	57	1,2-Dibromoethane	107	7.781	7.784	(0.951)	107546	50.0000	48.73
	58	1-Chlorohexane	55	8.193	8.196	(1.477)	80903	50.0000	47.26
	59	Chlorobenzene	112	8.208	8.208	(1.003)	290929	50.0000	45.66
	60	1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	102600	50.0000	50.46
	61	Ethylbenzene	106	8.305	8.305	(1.015)	147348	50.0000	50.00
	62	m,p-Xylenes	106	8.407	8.406	(1.027)	376184	100.000	98.91
	63	o-Xylene	106	8.744	8.744	(1.069)	182488	50.0000	47.79
	64	Styrene	104	8.759	8.759	(1.071)	302716	50.0000	49.47
	66	Bromoform	173	8.916	8.916	(1.090)	68173	50.0000	48.48
	67	Isopropylbenzene	105	9.059	9.059	(1.107)	442871	50.0000	50.19
	68	1,1,2,2-Tetrachloroethane	83	9.325	9.329	(0.917)	151278	50.0000	46.20
$	69	4-Bromofluorobenzene	95	9.190	9.190	(1.123)	124362	50.0000	48.37
*	70	1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	196973	50.0000	
	71	1,2,3-Trichloropropane	75	9.359	9.362	(0.920)	150016	50.0000	48.86(M)
	72	trans-1,4-Dichloro-2-butene	53	9.374	9.377	(1.146)	30150	50.0000	47.74
	73	n-Propylbenzene	91	9.407	9.411	(0.925)	514942	50.0000	48.51
	74	Bromobenzene	156	9.314	9.317	(0.916)	127975	50.0000	47.24
	75	1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	361104	50.0000	49.95
	76	2-Chlorotoluene	91	9.479	9.482	(0.932)	315078	50.0000	50.94

77 4-Chlorotoluene	91	9.572	9.576 (0.941)	361262	50.0000	47.40
78 tert-Butylbenzene	119	9.835	9.835 (0.967)	304303	50.0000	51.06(M)

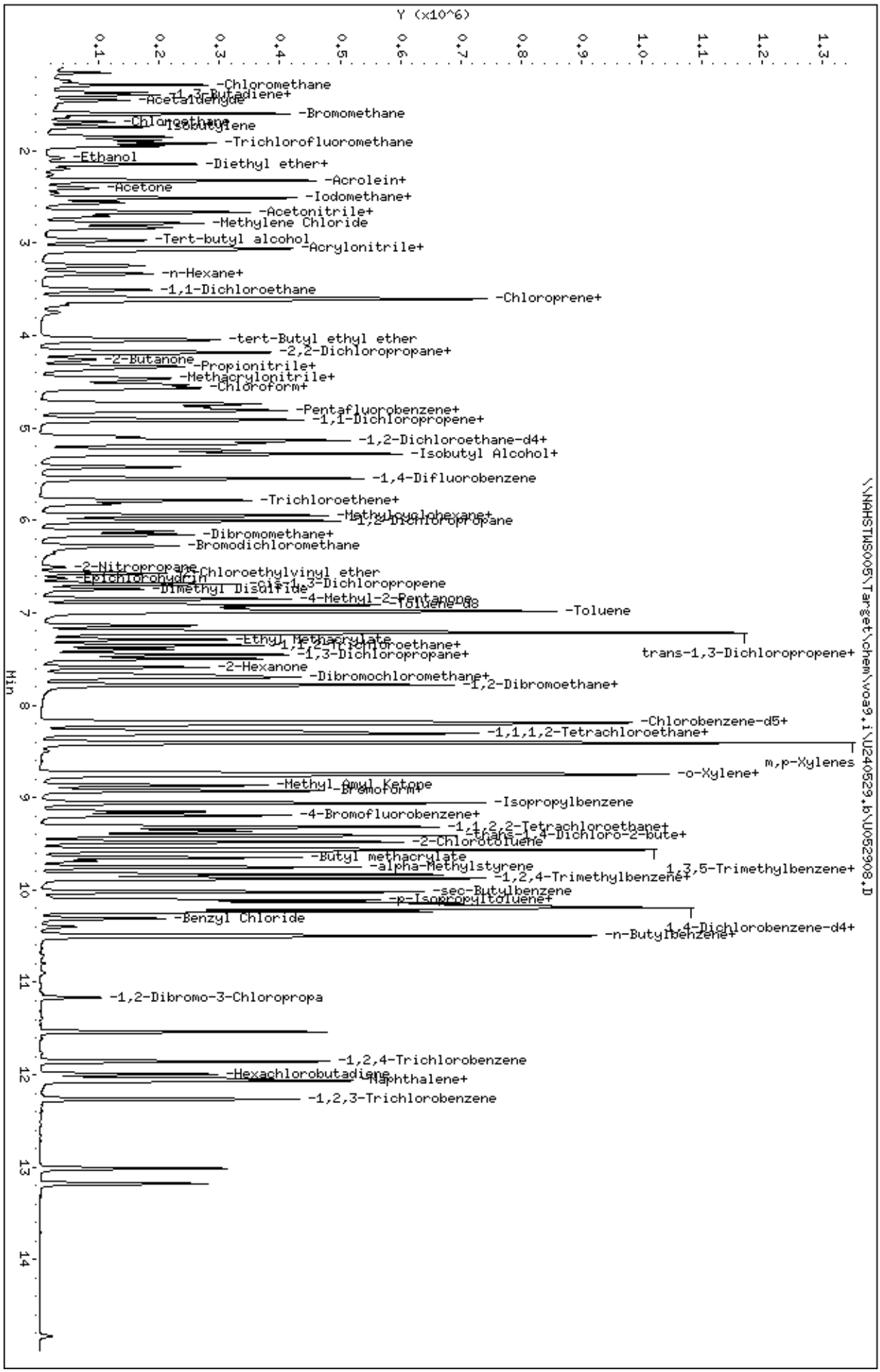
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
79	1,2,4-Trimethylbenzene	105	9.876	9.876	(0.971)	370379	50.0000	49.86
81	sec-Butylbenzene	105	10.018	10.022	(0.985)	412734	50.0000	51.02
82	p-Isopropyltoluene	119	10.146	10.146	(0.998)	361771	50.0000	51.32
83	1,3-Dichlorobenzene	146	10.112	10.116	(0.994)	216427	50.0000	47.31(M)
84	1,4-Dichlorobenzene	146	10.187	10.191	(1.002)	227651	50.0000	44.94
86	Benzyl Chloride	91	10.307	10.311	(1.260)	138884	50.0000	46.29
87	n-Butylbenzene	91	10.491	10.491	(1.032)	312016	50.0000	49.11
88	1,2-Dichlorobenzene	146	10.502	10.502	(1.033)	215967	50.0000	45.57(M)
89	1,2-Dibromo-3-Chloropropane	155	11.166	11.165	(1.098)	20853	50.0000	50.15
90	1,2,4-Trichlorobenzene	180	11.855	11.855	(1.166)	144427	50.0000	48.36
91	Hexachlorobutadiene	225	11.994	11.998	(1.180)	54931	50.0000	45.84
92	Naphthalene	128	12.065	12.065	(1.187)	365632	50.0000	50.39
93	1,2,3-Trichlorobenzene	180	12.268	12.268	(1.206)	134331	50.0000	48.29
146	Methyl acetate	43	2.705	2.708	(0.563)	112240	50.0000	49.22
138	Freon TF	101	2.326	2.326	(0.484)	78742	50.0000	49.15
141	Cyclohexane	56	4.778	4.778	(0.994)	132365	50.0000	48.29
142	Tetrahydrofuran	42	4.538	4.542	(0.944)	41576	100.000	100.76
147	Methylcyclohexane	55	5.944	5.944	(1.072)	249751	50.0000	48.93
135	1,4-Dioxane	88	6.165	6.168	(1.282)	28576	1000.00	968.30
132	n-Butanol	56	5.820	5.827	(1.210)	69388	1000.00	894.00
136	n-Hexane	57	3.331	3.331	(0.693)	91764	50.0000	47.84
139	Diethyl ether	59	2.139	2.139	(0.445)	75842	50.0000	50.13
148	Tert-butyl alcohol	59	2.967	2.975	(0.617)	200951	1000.00	1010.10
149	Isopropyl alcohol	45	2.562	2.570	(0.533)	157210	1000.00	1007.63(T)
152	Amyl alcohol	42	7.394	7.398	(0.904)	77196	1000.00	945.68
156	Diisopropyl ether	45	3.616	3.619	(0.752)	329115	50.0000	44.73
162	Butyl acrylate	55	8.729	8.733	(1.067)	186832	50.0000	47.10
187	n-Amyl acetate	43	8.928	8.931	(1.091)	188918	50.0000	47.07
164	Dicyclopentadiene	66	10.198	10.198	(1.003)	468567	50.0000	46.38
166	1,2,3-Trimethylbenzene	105	10.232	10.232	(1.006)	333316	50.0000	48.55
167	Ethanol	45	2.079	2.086	(0.432)	29366	1000.00	1003.32
172	tert-Butyl formate	59	5.239	5.250	(1.090)	209892	100.000	92.22
173	3,3-Dimethyl-1-butanol	57	7.781	7.784	(0.951)	235172	1000.00	914.09
174	tert-Amyl methyl ether	73	5.284	5.284	(1.099)	299172	50.0000	44.37
175	tert-Butyl ethyl ether	59	4.043	4.047	(0.841)	297796	50.0000	45.19
176	tert-Amyl alcohol	59	5.239	5.250	(1.090)	209892	1000.00	911.64
151	4-Methyl-2-pentanol	45	7.214	7.222	(1.301)	647574	1000.00	956.22
140	1,3-Butadiene	54	1.396	1.396	(0.291)	51777	50.0000	48.57
182	Epichlorohydrin	57	6.626	6.630	(1.195)	29367	200.000	202.87
M 94	1,2-Dichloroethylene (total)	96				219574	100.000	(a)
145	alpha-Methylstyrene	118	9.752	9.752	(0.959)	150603	50.0000	49.86
130	Ethyl Acetate	43	4.335	4.339	(0.902)	125689	50.0000	47.36
131	Methyl Acrylate	55	4.362	4.365	(0.907)	131096	50.0000	49.31
189	n-Butyl acetate	43	7.702	7.702	(0.941)	184225	50.0000	47.47
134	Cyclohexanone	55	9.149	9.152	(0.900)	104997	1000.00	937.01
185	Isoprene	39	2.146	2.146	(0.446)	22038	50.0000	48.06
188	Isopropyl acetate	43	5.280	5.284	(0.952)	315895	50.0000	46.12
150	Allyl alcohol	57	3.331	3.331	(0.693)	91764	1000.00	956.87
194	Acetaldehyde	44	1.453	1.453	(0.302)	97166	200.000	203.55(M)
195	Methyl Amyl Ketone	43	8.864	8.868	(1.083)	206617	50.0000	45.88
200	Dimethyl Disulfide	94	6.742	6.746	(0.824)	68045	50.0000	38.47
202	Isobutylene	41	1.741	1.734	(0.362)	43949	50.0000	49.62(M)

133 Ethyl Acrylate	55	5.944	5.944 (1.236)	249751	50.0000	48.82
163 Butyl methacrylate	41	9.647	9.647 (0.949)	104298	50.0000	45.76

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
159 Propylene oxide	43	2.191	2.191	(0.456)	16421	100.000	99.42
203 2-Ethylhexyl Acrylate	55	12.039	12.039	(1.184)	121736	50.0000	49.55

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: VSTD050;VSTD050;1;7
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Instrument: VOA9.i
Operator: FT
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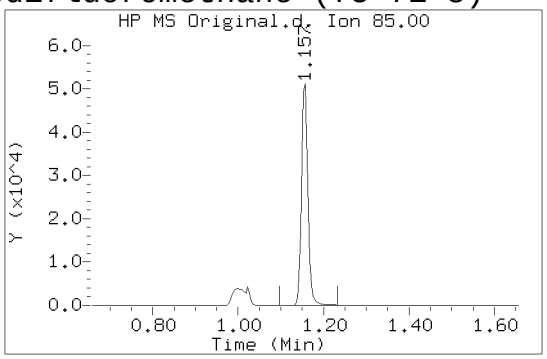
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Dichlorodifluoromethane (75-71-8)

Reason Code:

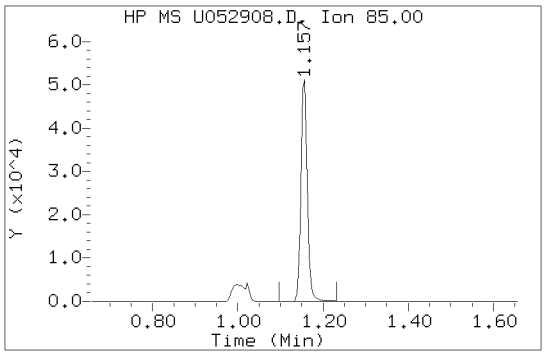
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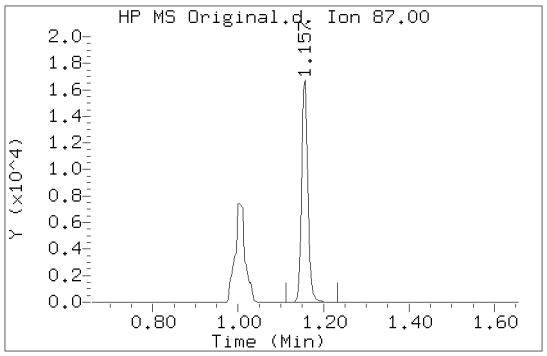
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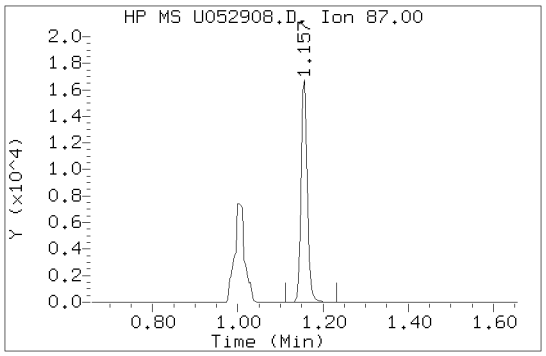
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AFTER

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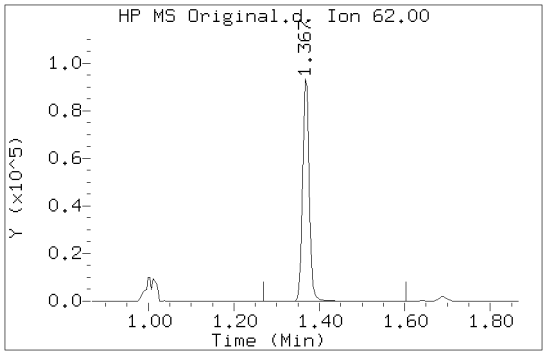


Vinyl Chloride (75-01-4)

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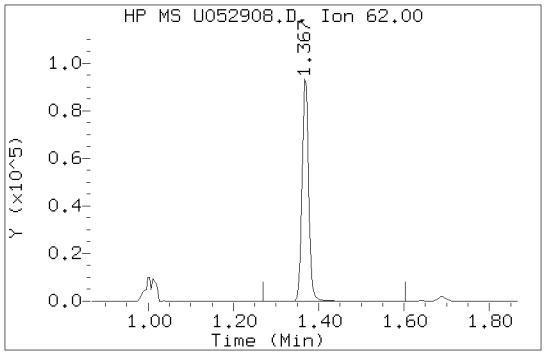
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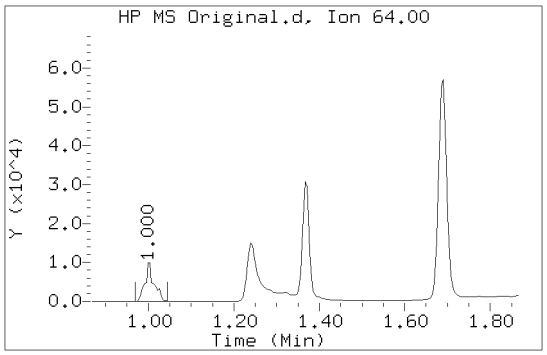
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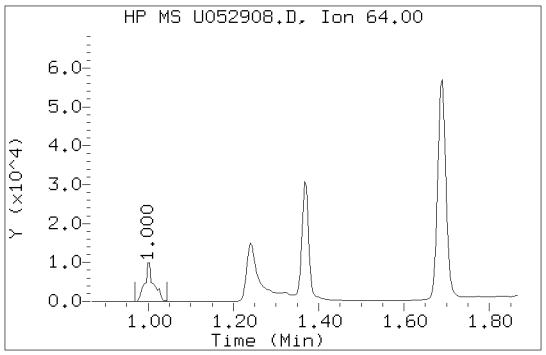
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AFTER

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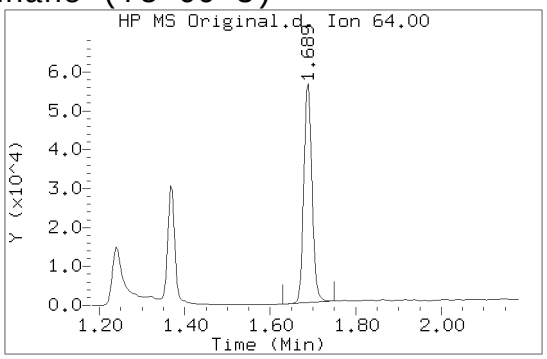
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LabSampID : VSTD050

Chloroethane (75-00-3)

Reason Code:

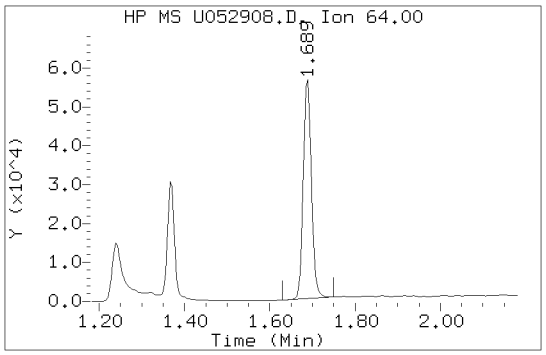
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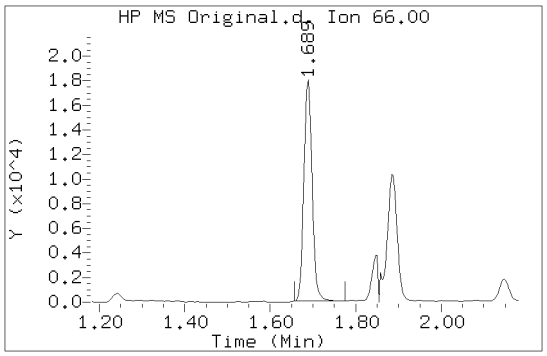
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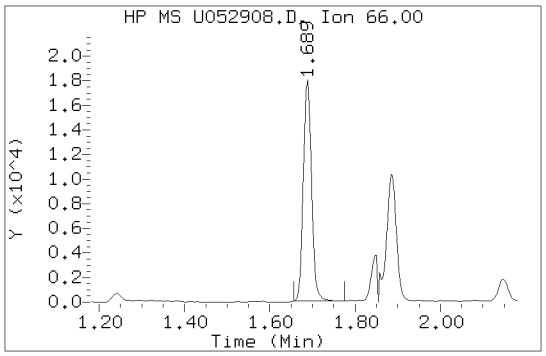
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AFTER

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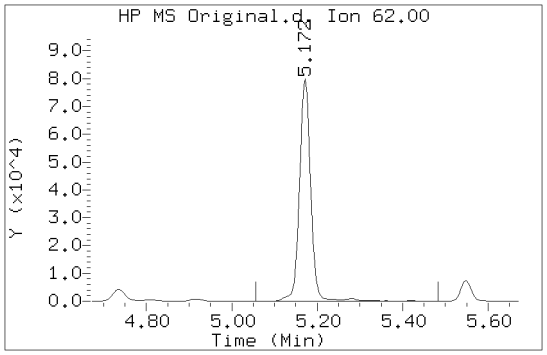


1,2-Dichloroethane (107-06-2)

Reason Code:

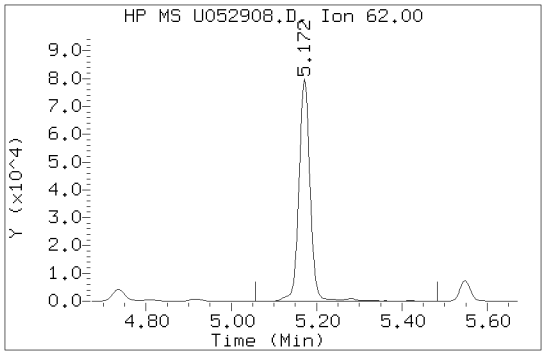
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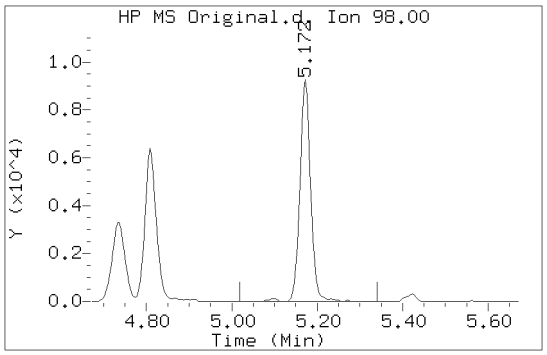
AFTER

MASS
62
AREA
149897
HEIGHT
79880
07-Jun-2024
10:36



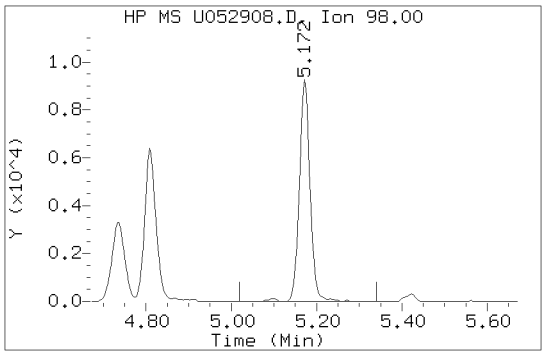
BEFORE

MASS
98
AREA
16480
HEIGHT
9263
06-Jun-2024
17:16
s
zaid



AFTER

MASS
98
AREA
16480
HEIGHT
9263
07-Jun-2024
10:36

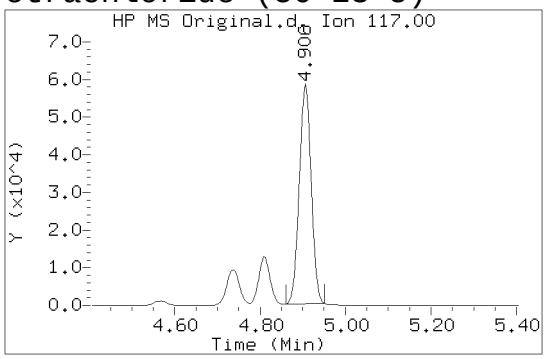


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Inj Date : 29-MAY-2024 12:48
InstruID : VOA9.i
LabSampID : VSTD050

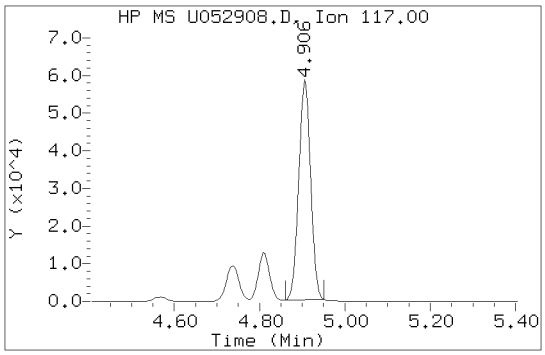
Carbon Tetrachloride (56-23-5)

Reason Code:

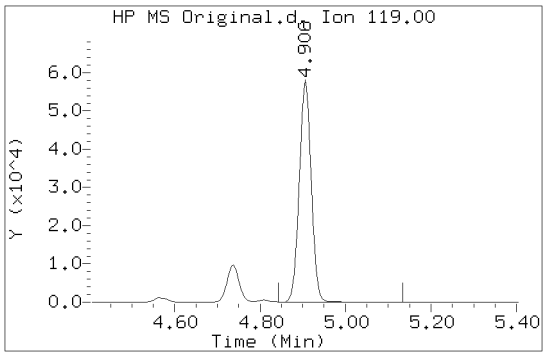
BEFORE
MASS
117
AREA
115100
HEIGHT
58464
06-Jun-2024
17:16
s
zaid



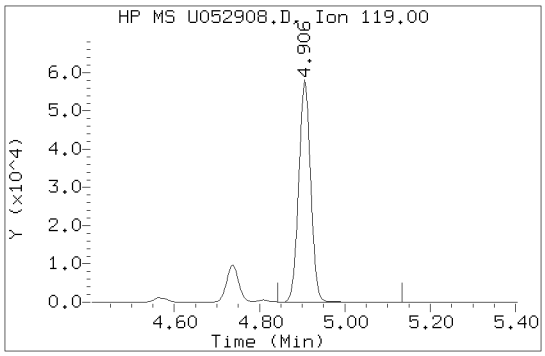
AFTER
MASS
117
AREA
115100
HEIGHT
58464
07-Jun-2024
10:36



BEFORE
MASS
119
AREA
115025
HEIGHT
58120
06-Jun-2024
17:16
s
zaid



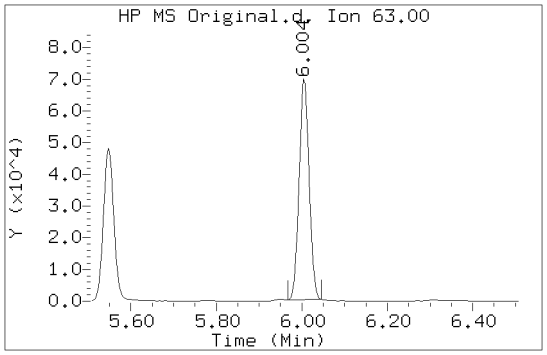
AFTER
MASS
119
AREA
115025
HEIGHT
58120
07-Jun-2024
10:36



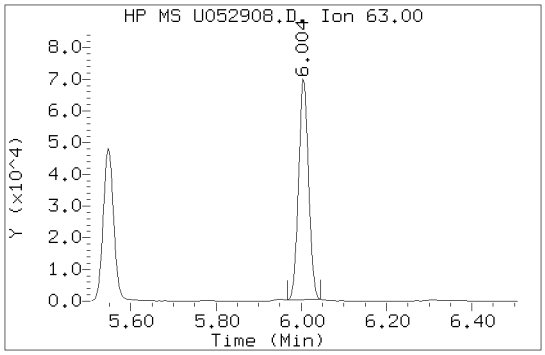
1,2-Dichloropropane (78-87-5)

Reason Code:

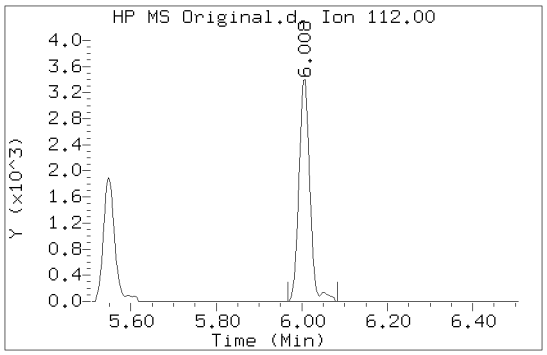
BEFORE
MASS
63
AREA
115748
HEIGHT
69658
06-Jun-2024
17:16
s
zaid



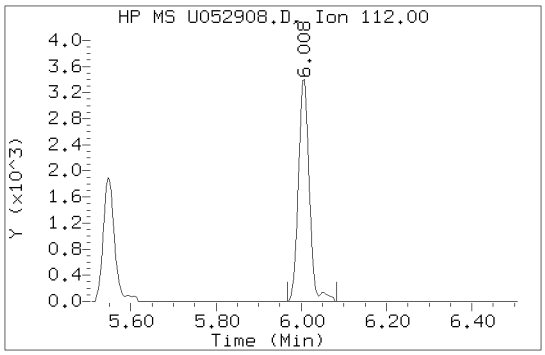
AFTER
MASS
63
AREA
115748
HEIGHT
69658
07-Jun-2024
10:36



BEFORE
MASS
112
AREA
6188
HEIGHT
3398
06-Jun-2024
17:16
s
zaid



AFTER
MASS
112
AREA
6188
HEIGHT
3398
07-Jun-2024
10:36

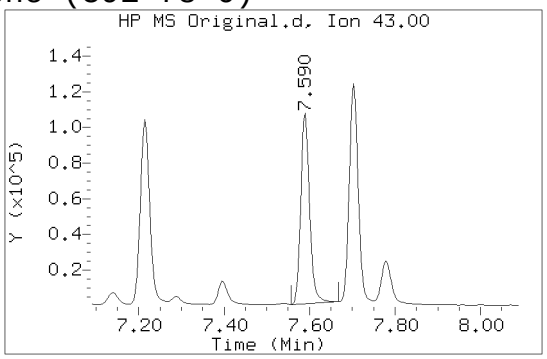


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Inj Date : 29-MAY-2024 12:48
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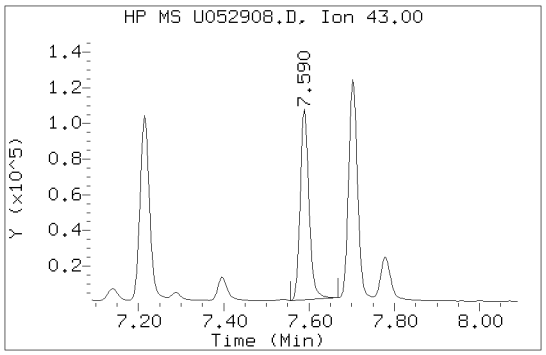
2-Hexanone (591-78-6)

Reason Code:

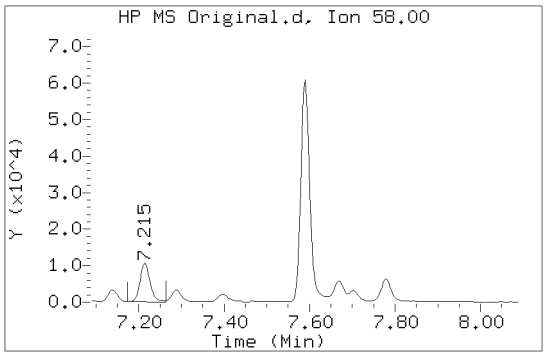
BEFORE
MASS
43
AREA
156001
HEIGHT
106896
06-Jun-2024
17:16
s
zaid



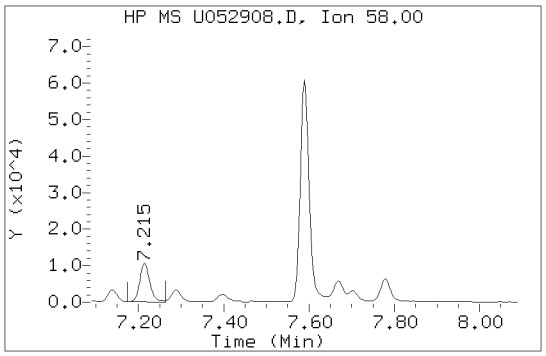
AFTER
MASS
43
AREA
156001
HEIGHT
106896
07-Jun-2024
10:36



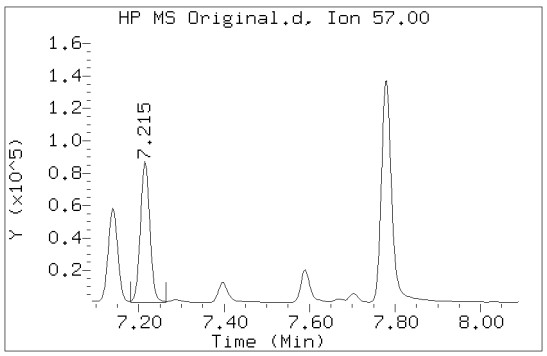
BEFORE
MASS
58
AREA
17346
HEIGHT
10624
06-Jun-2024
17:16
s
zaid



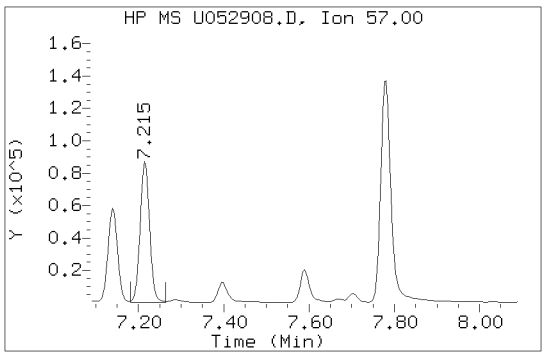
AFTER
MASS
58
AREA
17346
HEIGHT
10624
07-Jun-2024
10:36



BEFORE
MASS
57
AREA
133877
HEIGHT
87137
06-Jun-2024
17:16
s
zaid



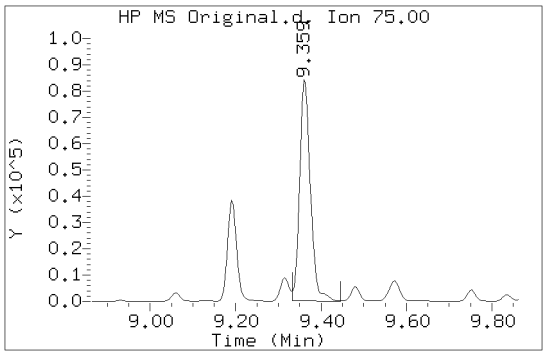
AFTER
MASS
57
AREA
133877
HEIGHT
87137
07-Jun-2024
10:36



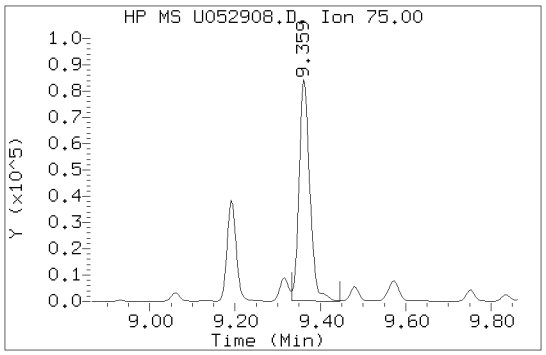
1,2,3-Trichloropropane (96-18-4)

Reason Code:

BEFORE
MASS
75
AREA
150016
HEIGHT
84176
06-Jun-2024
17:16
s
zaid



AFTER
MASS
75
AREA
150016
HEIGHT
84176
07-Jun-2024
10:36

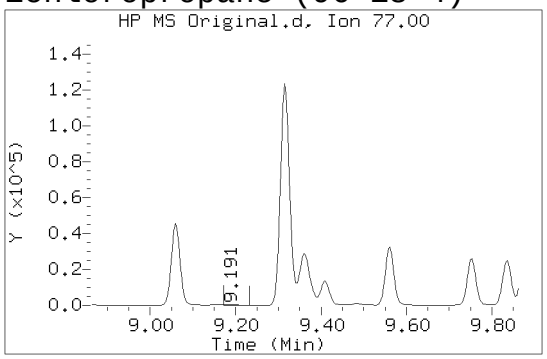


Data File : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052908.D
Inj Date : 29-MAY-2024 12:48
InstruID : VOA9.i
LabSampID : VSTD050

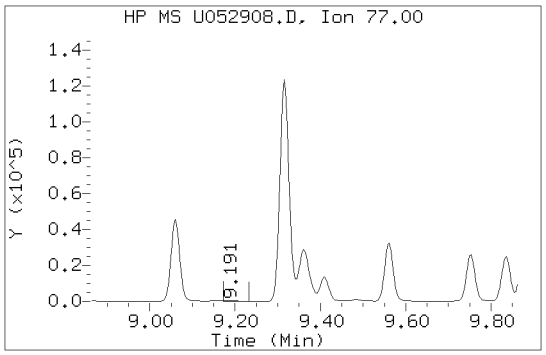
1,2,3-Trichloropropane (96-18-4)

Reason Code:

BEFORE
MASS
77
AREA
710
HEIGHT
473
06-Jun-2024
17:16
s
zaid



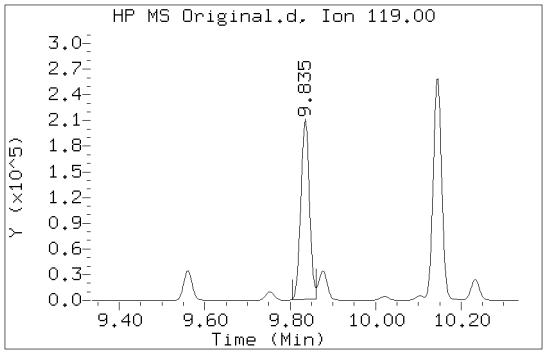
AFTER
MASS
77
AREA
710
HEIGHT
473
07-Jun-2024
10:36



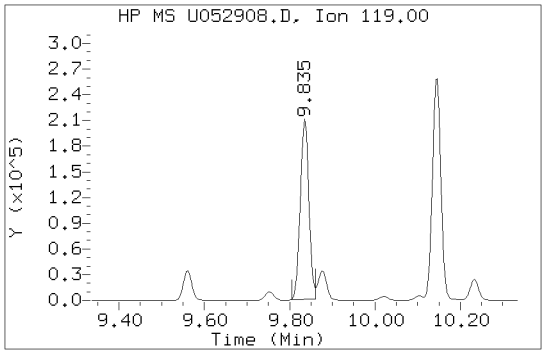
tert-Butylbenzene (98-06-6)

Reason Code:

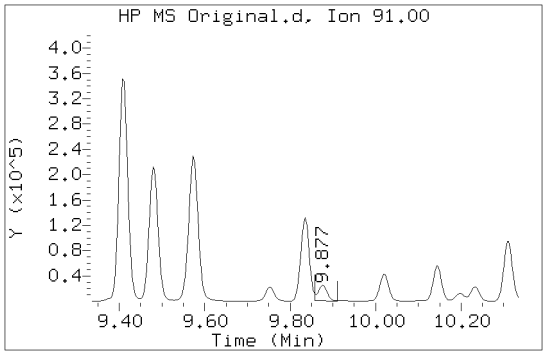
BEFORE
MASS
119
AREA
304303
HEIGHT
210909
06-Jun-2024
17:16
s
zaid



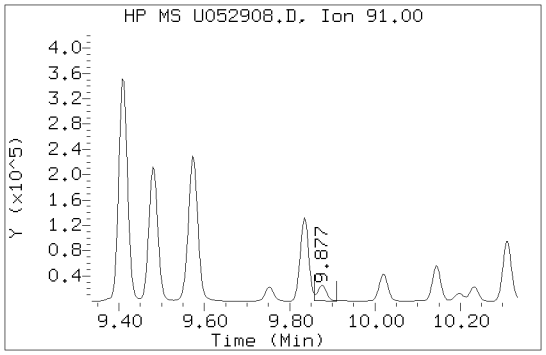
AFTER
MASS
119
AREA
304303
HEIGHT
210909
07-Jun-2024
10:36



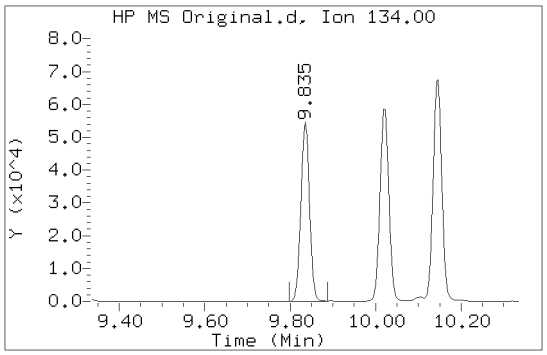
BEFORE
MASS
91
AREA
37883
HEIGHT
25149
06-Jun-2024
17:16
s
zaid



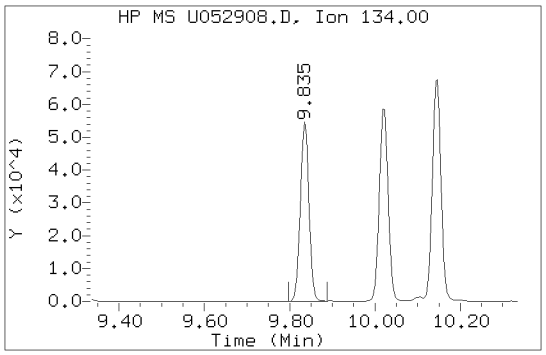
AFTER
MASS
91
AREA
37883
HEIGHT
25149
07-Jun-2024
10:36



BEFORE
MASS
134
AREA
78614
HEIGHT
54632
06-Jun-2024
17:16
s
zaid



AFTER
MASS
134
AREA
78614
HEIGHT
54632
07-Jun-2024
10:36



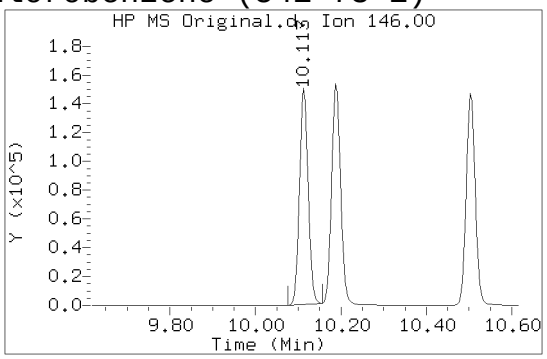
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Inj Date : 29-MAY-2024 12:48
InstruID : VOA9.i
LabSampID : VSTD050

1,3-Dichlorobenzene (541-73-1)

Reason Code:

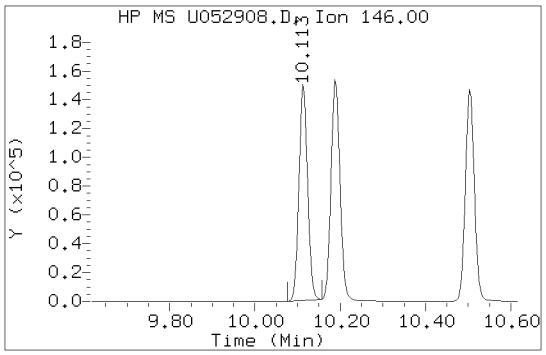
BEFORE

MASS
146
AREA
216427
HEIGHT
150403
06-Jun-2024
17:16
s
zaid



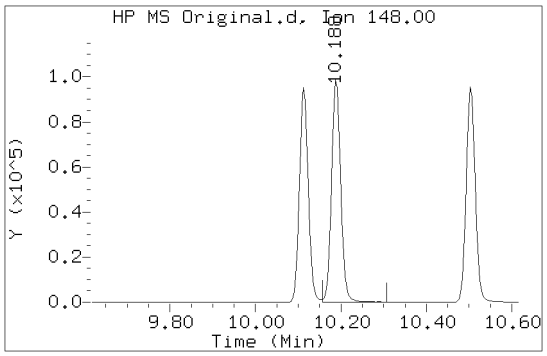
AFTER

MASS
146
AREA
216427
HEIGHT
150403
07-Jun-2024
10:36



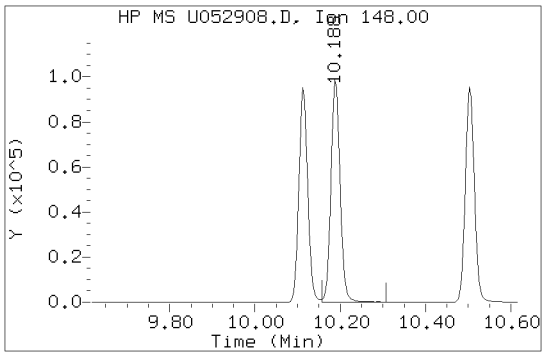
BEFORE

MASS
148
AREA
146702
HEIGHT
98603
06-Jun-2024
17:16
s
zaid



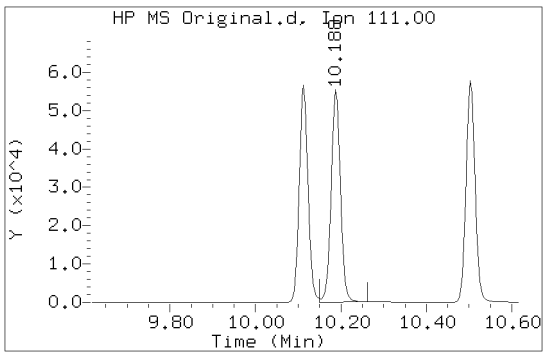
AFTER

MASS
148
AREA
146702
HEIGHT
98603
07-Jun-2024
10:36



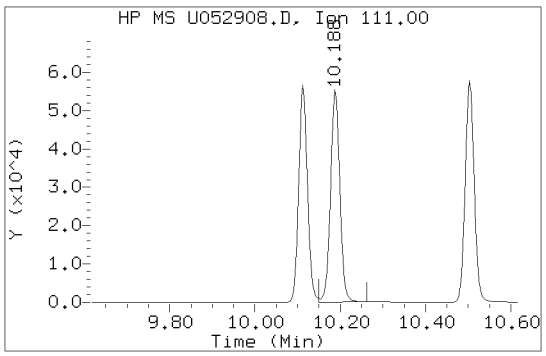
BEFORE

MASS
111
AREA
83646
HEIGHT
55336
06-Jun-2024
17:16
s
zaid



AFTER

MASS
111
AREA
83646
HEIGHT
55336
07-Jun-2024
10:36

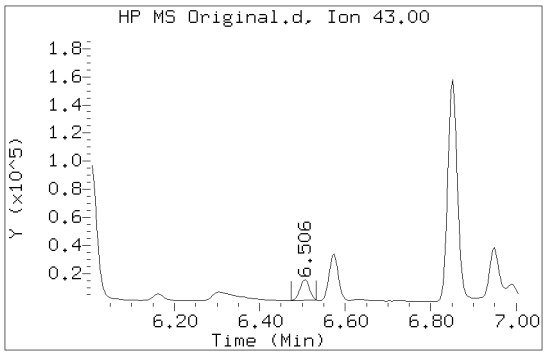


2-Nitropropane (79-46-9)

Reason Code:

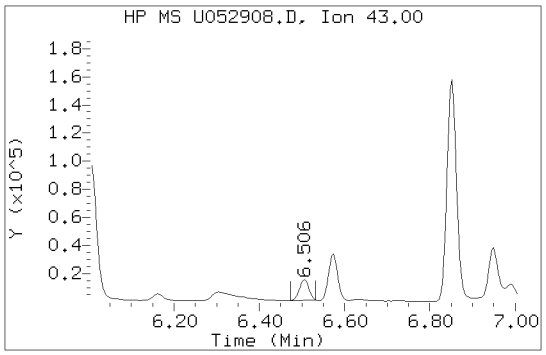
BEFORE

MASS
43
AREA
22745
HEIGHT
14661
06-Jun-2024
17:16
s
zaid



AFTER

MASS
43
AREA
22745
HEIGHT
14661
07-Jun-2024
10:36



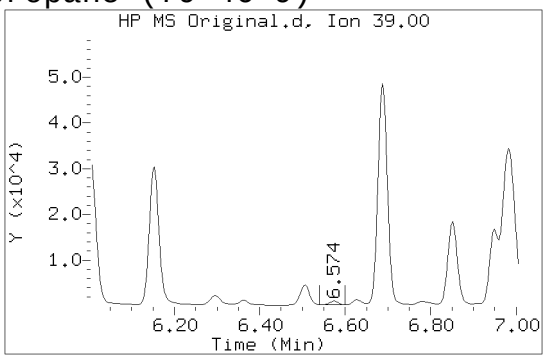
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Inj Date : 29-MAY-2024 12:48
InstruID : VOA9.i
LabSampID : VSTD050

2-Nitropropane (79-46-9)

Reason Code:

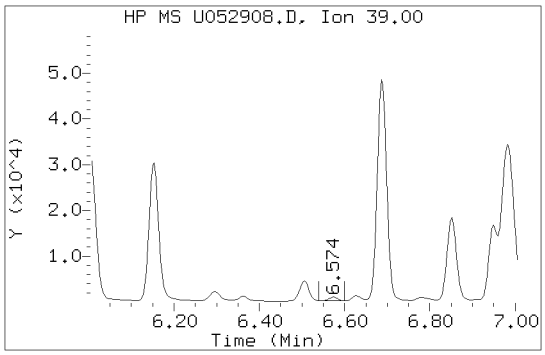
BEFORE

MASS
39
AREA
1296
HEIGHT
880
06-Jun-2024
17:16
s
zaid



AFTER

MASS
39
AREA
1296
HEIGHT
880
07-Jun-2024
10:36

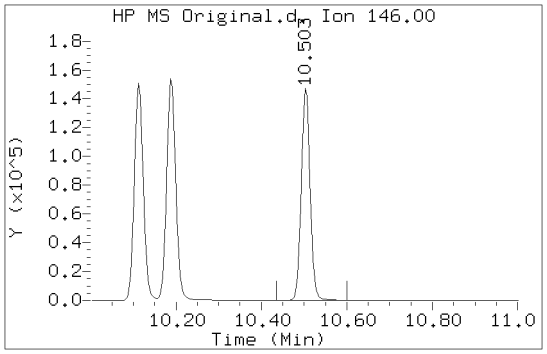


1,2-Dichlorobenzene (95-50-1)

Reason Code:

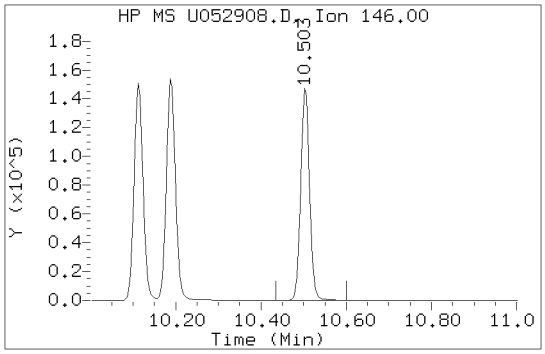
BEFORE

MASS
146
AREA
215967
HEIGHT
147454
06-Jun-2024
17:16
s
zaid



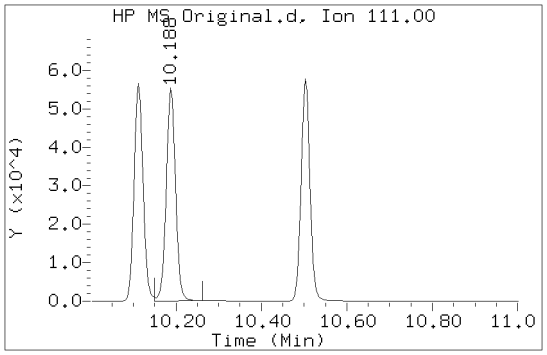
AFTER

MASS
146
AREA
215967
HEIGHT
147454
07-Jun-2024
10:36



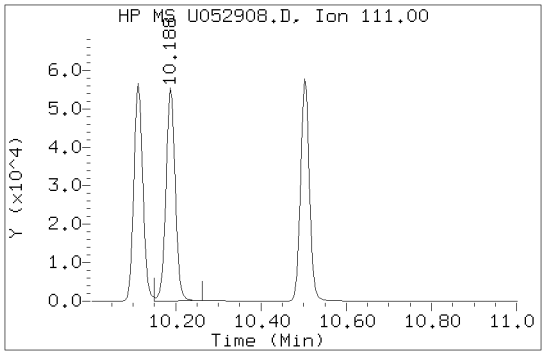
BEFORE

MASS
111
AREA
83646
HEIGHT
55336
06-Jun-2024
17:16
s
zaid



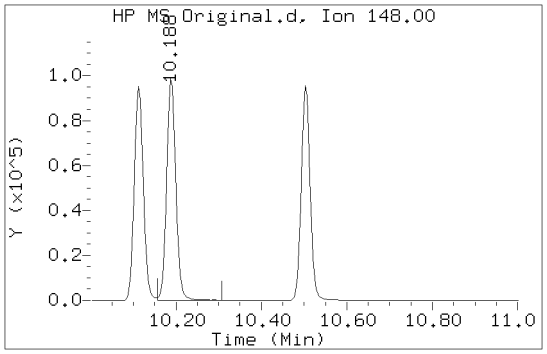
AFTER

MASS
111
AREA
83646
HEIGHT
55336
07-Jun-2024
10:36



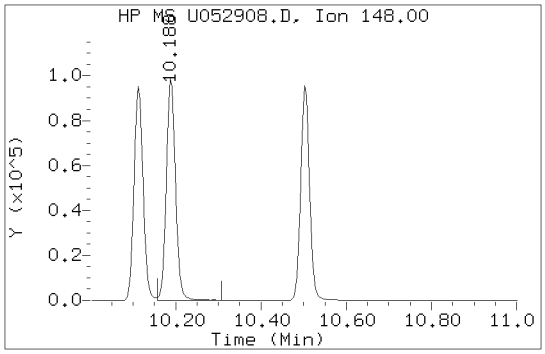
BEFORE

MASS
148
AREA
146702
HEIGHT
98603
06-Jun-2024
17:16
s
zaid



AFTER

MASS
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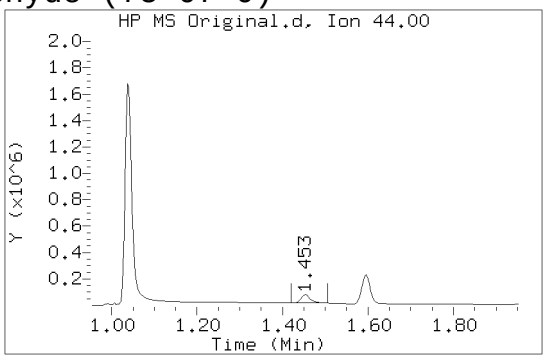


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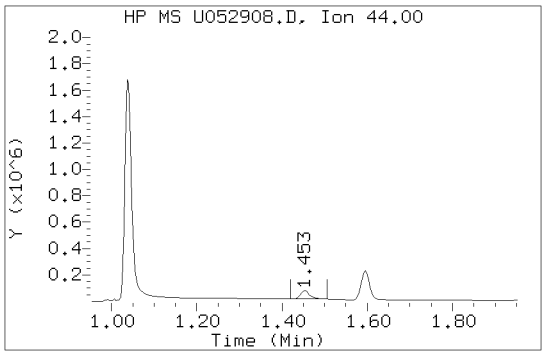
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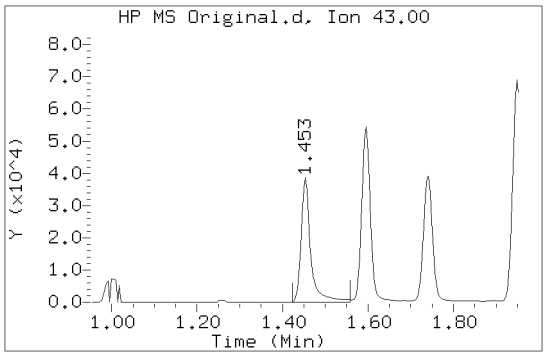
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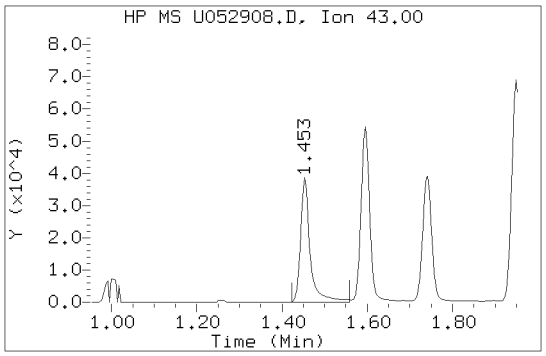
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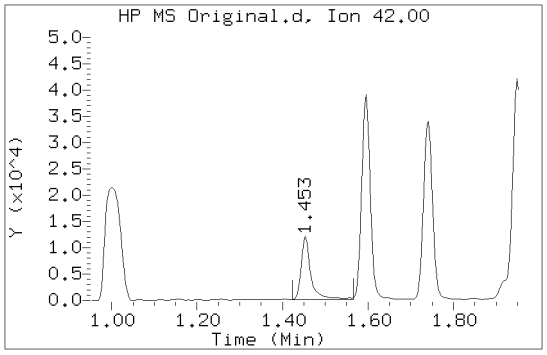
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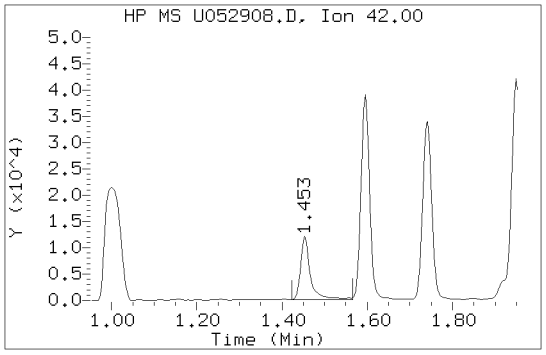
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BEFORE
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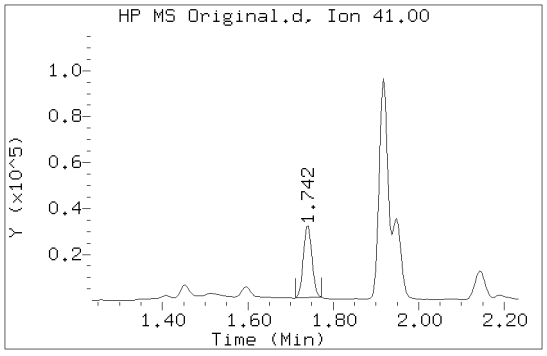
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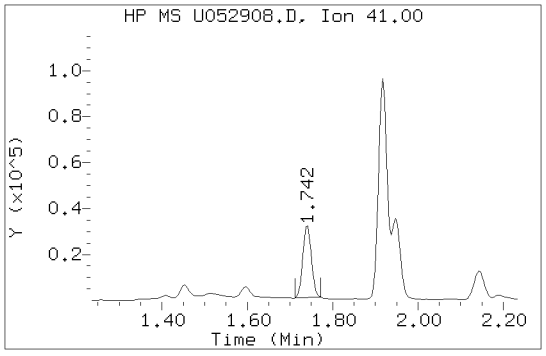
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AFTER
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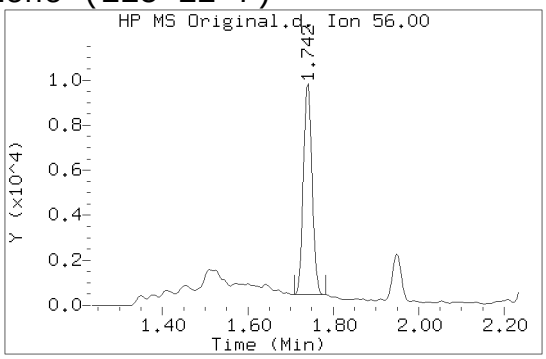
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LabSampID : VSTD050

Isobutylene (115-11-7)

Reason Code:

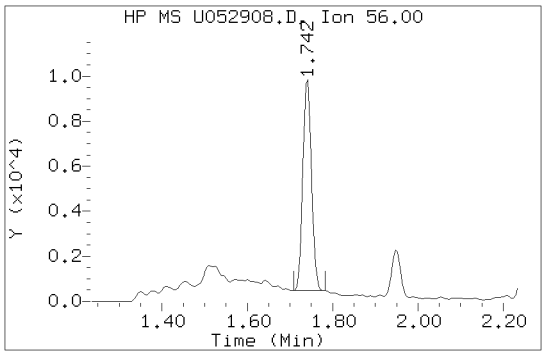
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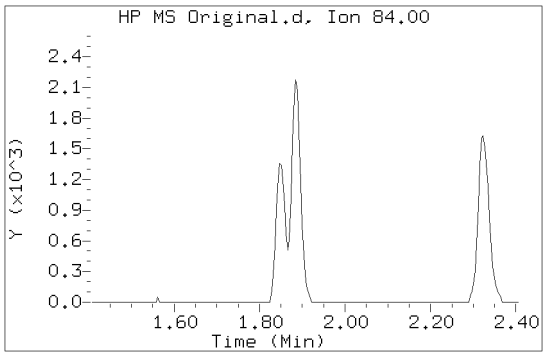
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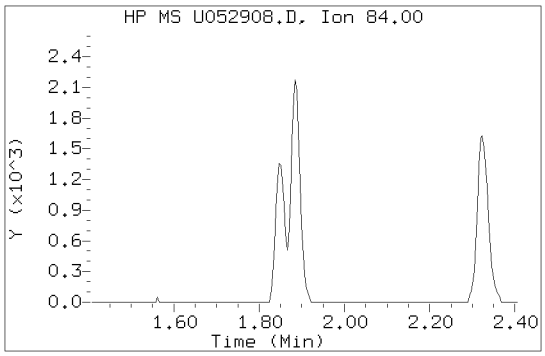
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AFTER

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07-Jun-2024
10:36



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052909.D Page 1
Report Date: 07-Jun-2024 10:54

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052909.D
Lab Smp Id: VSTD100 Client Smp ID: VSTD100
Inj Date : 29-MAY-2024 13:10
Operator : FT Inst ID: VOA9.i
Smp Info : VSTD100;VSTD100;1;8
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240529.b\8260C.m
Meth Date : 07-Jun-2024 10:14 r.patel Quant Type: ISTD
Cal Date : 29-MAY-2024 13:10 Cal File: U052909.D
Als bottle: 9 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14

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	4.815	4.811	(1.000)	276380	50.0000	
2	Dichlorodifluoromethane	85	1.168	1.156	(0.243)	110361	100.000	107.11(M)
3	Chloromethane	50	1.299	1.288	(0.270)	362966	100.000	99.19
4	Propionitrile	54	4.339	4.339	(0.901)	312519	1000.00	989.93
5	Vinyl Chloride	62	1.378	1.366	(0.286)	210426	100.000	100.82(M)
6	Bromomethane	94	1.610	1.595	(0.334)	88847	100.000	99.33
7	Chloroethane	64	1.696	1.681	(0.352)	148667	100.000	99.08(M)
8	Trichlorofluoromethane	101	1.899	1.884	(0.394)	263223	100.000	106.20
9	Acrolein	56	2.266	2.259	(0.471)	19417	200.000	193.33
10	Acetone	43	2.412	2.405	(0.501)	158455	200.000	193.90
11	1,1-Dichloroethene	96	2.334	2.322	(0.485)	179095	100.000	98.29
12	Isobutyl Alcohol	43	5.288	5.284	(1.098)	634410	2000.00	2020.54
13	Acetonitrile	39	2.675	2.663	(0.555)	225476	1000.00	1005.72
14	Allyl Chloride	41	2.675	2.667	(0.555)	552669	100.000	99.24
15	Iodomethane	142	2.469	2.457	(0.513)	73121	200.000	18.58
16	Acrylonitrile	53	3.068	3.061	(0.637)	154935	200.000	196.83
17	Methylene Chloride	84	2.795	2.783	(0.580)	213527	100.000	99.28
18	Methyl tert-butyl ether	73	3.083	3.076	(0.640)	517202	100.000	98.57
19	Carbon Disulfide	76	2.521	2.510	(0.524)	1023250	200.000	200.20
20	trans-1,2-Dichloroethene	96	3.057	3.050	(0.635)	193495	100.000	93.92
21	Vinyl Acetate	43	4.343	4.339	(0.902)	238681	200.000	195.96

22 1,1-Dichloroethane	63	3.514	3.507 (0.730)	356617	100.000	90.10
23 Chloroprene	53	3.608	3.601 (0.749)	298657	100.000	102.91

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052909.D Page 2
Report Date: 07-Jun-2024 10:54

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
24	2-Butanone	43	4.268	4.260	(0.886)	232236	200.000	188.02
25	Methacrylonitrile	41	4.497	4.489	(0.934)	134993	100.000	102.16(a)
26	2,2-Dichloropropane	77	4.182	4.174	(0.868)	268728	100.000	103.45
27	cis-1,2-Dichloroethene	96	4.197	4.189	(0.872)	235065	100.000	92.38
28	Chloroform	83	4.575	4.568	(0.950)	364237	100.000	92.17
29	Bromochloromethane	128	4.470	4.463	(0.928)	113406	100.000	96.57
$ 30	Dibromofluoromethane	113	4.748	4.744	(0.986)	177686	100.000	98.80
31	1,1,1-Trichloroethane	97	4.744	4.736	(0.985)	296179	100.000	107.02
32	1,1-Dichloropropene	75	4.920	4.916	(0.886)	284376	100.000	98.43
33	1,2-Dichloroethane	62	5.175	5.171	(0.932)	287619	100.000	96.33(M)
34	Carbon Tetrachloride	117	4.913	4.905	(0.885)	245615	100.000	108.52(M)
$ 35	1,2-Dichloroethane-d4	65	5.096	5.093	(1.058)	204529	100.000	95.89
* 36	1,4-Difluorobenzene	114	5.554	5.550	(1.000)	398880	50.0000	
37	Benzene	78	5.138	5.134	(0.925)	849770	100.000	90.44
38	Trichloroethene	130	5.786	5.786	(1.042)	223146	100.000	96.49
39	Bromodichloromethane	83	6.277	6.277	(1.130)	260676	100.000	103.16
40	Methyl Methacrylate	41	5.824	5.827	(1.209)	100414	100.000	98.92
41	2-Chloroethylvinyl ether	63	6.573	6.573	(1.184)	179421	200.000	197.96
42	1,2-Dichloropropane	63	6.007	6.007	(1.082)	224092	100.000	90.43(M)
43	2-Nitropropane	43	6.506	6.506	(1.351)	50838	100.000	98.30(M)
44	Dibromomethane	93	6.120	6.116	(1.102)	136786	100.000	95.06
45	4-Methyl-2-Pentanone	43	6.851	6.851	(0.837)	496657	200.000	198.79
46	cis-1,3-Dichloropropene	75	6.690	6.690	(1.205)	349144	100.000	99.32
* 47	Chlorobenzene-d5	117	8.185	8.185	(1.000)	359514	50.0000	
$ 48	Toluene-d8	98	6.922	6.918	(0.846)	670353	100.000	97.58
49	Ethyl Methacrylate	69	7.289	7.289	(1.312)	305423	100.000	98.99
50	Toluene	91	6.978	6.978	(0.853)	874010	100.000	89.55
51	trans-1,3-Dichloropropene	75	7.196	7.196	(1.296)	288024	100.000	99.31
52	2-Hexanone	43	7.589	7.589	(0.927)	326398	200.000	197.85(M)
53	1,1,2-Trichloroethane	83	7.353	7.353	(0.898)	172371	100.000	99.43
54	1,3-Dichloropropane	76	7.496	7.499	(0.916)	370135	100.000	93.11
55	Dibromochloromethane	129	7.690	7.690	(0.940)	219518	100.000	99.77
56	Tetrachloroethene	164	7.454	7.454	(0.911)	174914	100.000	102.62
57	1,2-Dibromoethane	107	7.784	7.784	(0.951)	207947	100.000	96.89
58	1-Chlorohexane	55	8.197	8.196	(1.476)	168663	100.000	97.76
59	Chlorobenzene	112	8.208	8.208	(1.003)	563893	100.000	91.00
60	1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	205411	100.000	103.88
61	Ethylbenzene	106	8.305	8.305	(1.015)	289334	100.000	98.23
62	m,p-Xylenes	106	8.406	8.406	(1.027)	741524	200.000	196.91
63	o-Xylene	106	8.744	8.744	(1.068)	356834	100.000	95.26
64	Styrene	104	8.759	8.759	(1.070)	601084	100.000	101.01
66	Bromoform	173	8.916	8.916	(1.089)	145408	100.000	99.61
67	Isopropylbenzene	105	9.059	9.059	(1.107)	884658	100.000	103.09
68	1,1,2,2-Tetrachloroethane	83	9.325	9.329	(0.917)	297282	100.000	92.22
$ 69	4-Bromofluorobenzene	95	9.190	9.190	(1.123)	241554	100.000	96.70
* 70	1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	193926	50.0000	
71	1,2,3-Trichloropropane	75	9.362	9.362	(0.921)	305205	100.000	100.96(M)
72	trans-1,4-Dichloro-2-butene	53	9.374	9.377	(1.145)	63452	100.000	103.29
73	n-Propylbenzene	91	9.411	9.411	(0.926)	1039029	100.000	99.42
74	Bromobenzene	156	9.317	9.317	(0.916)	244818	100.000	91.80
75	1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	721154	100.000	98.68
76	2-Chlorotoluene	91	9.482	9.482	(0.933)	613649	100.000	98.59

77	4-Chlorotoluene	91	9.572	9.576 (0.941)	714656	100.000	95.24
78	tert-Butylbenzene	119	9.835	9.835 (0.967)	612706	100.000	104.42(M)

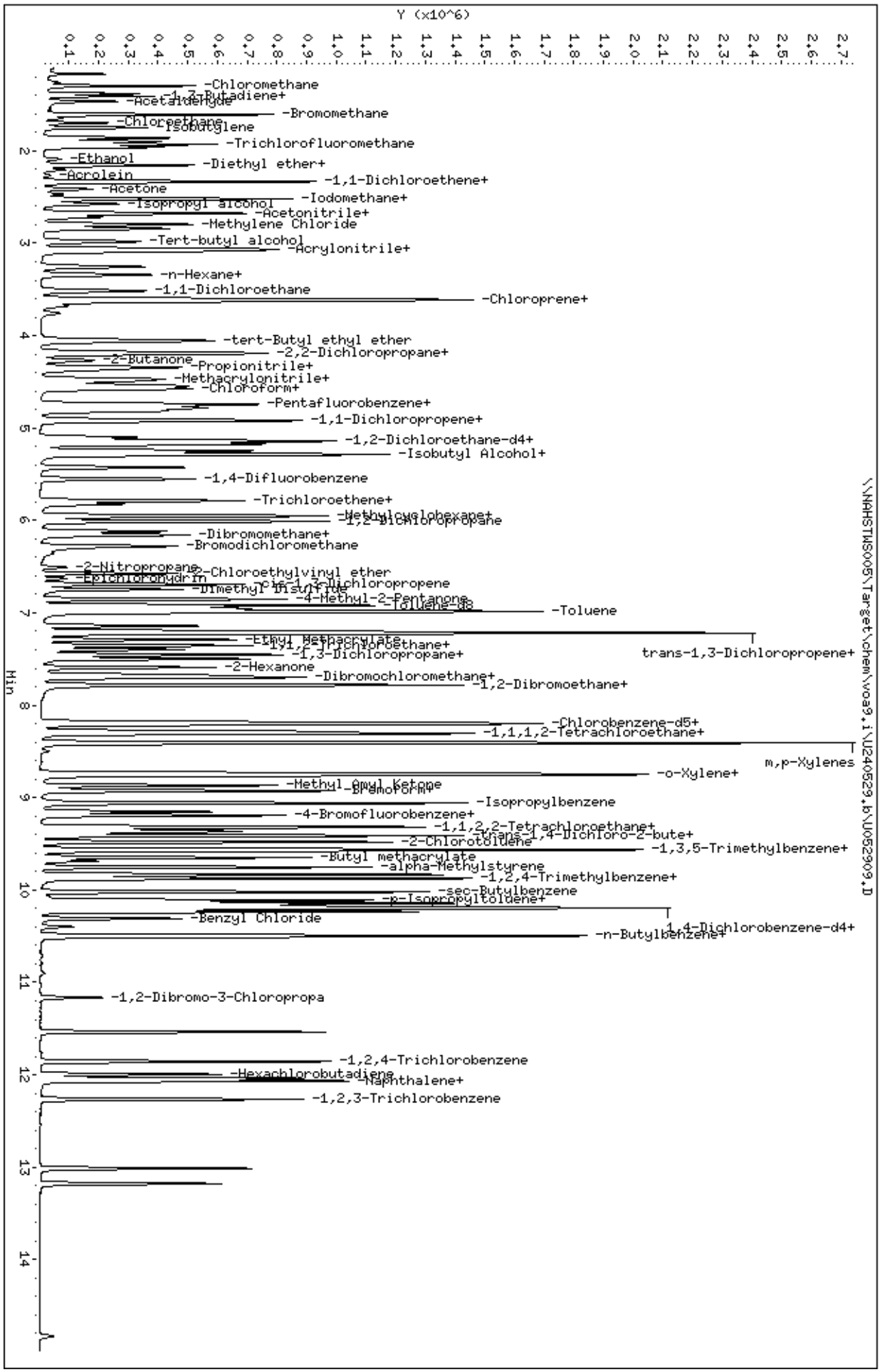
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
79	1,2,4-Trimethylbenzene	105	9.876	9.876	(0.971)	733468	100.000	99.28
81	sec-Butylbenzene	105	10.018	10.022	(0.985)	841166	100.000	105.63
82	p-Isopropyltoluene	119	10.146	10.146	(0.998)	736481	100.000	106.13
83	1,3-Dichlorobenzene	146	10.112	10.116	(0.994)	427248	100.000	94.87(M)
84	1,4-Dichlorobenzene	146	10.187	10.191	(1.002)	448818	100.000	89.99
86	Benzyl Chloride	91	10.311	10.311	(1.260)	315330	100.000	99.84
87	n-Butylbenzene	91	10.491	10.491	(1.032)	641821	100.000	98.72
88	1,2-Dichlorobenzene	146	10.502	10.502	(1.033)	425491	100.000	91.19(M)
89	1,2-Dibromo-3-Chloropropane	155	11.165	11.165	(1.098)	43093	100.000	98.97
90	1,2,4-Trichlorobenzene	180	11.855	11.855	(1.166)	295330	100.000	100.45
91	Hexachlorobutadiene	225	11.998	11.998	(1.180)	114648	100.000	97.19
92	Naphthalene	128	12.065	12.065	(1.187)	733059	100.000	99.54
93	1,2,3-Trichlorobenzene	180	12.268	12.268	(1.206)	270845	100.000	98.89
146	Methyl acetate	43	2.716	2.708	(0.564)	212417	100.000	96.87
138	Freon TF	101	2.334	2.326	(0.485)	158195	100.000	98.85
141	Cyclohexane	56	4.781	4.778	(0.993)	266868	100.000	98.62
142	Tetrahydrofuran	42	4.545	4.542	(0.944)	81311	200.000	198.94
147	Methylcyclohexane	55	5.947	5.944	(1.071)	512252	100.000	99.13
135	1,4-Dioxane	88	6.168	6.168	(1.281)	56513	2000.00	1942.84
132	n-Butanol	56	5.824	5.827	(1.209)	149062	2000.00	2002.08
136	n-Hexane	57	3.342	3.331	(0.694)	189432	100.000	98.44
139	Diethyl ether	59	2.150	2.139	(0.447)	146534	100.000	98.00
148	Tert-butyl alcohol	59	2.978	2.975	(0.619)	398358	2000.00	1985.11
149	Isopropyl alcohol	45	2.573	2.570	(0.534)	314658	2000.00	1991.14
152	Amyl alcohol	42	7.398	7.398	(0.904)	167778	2000.00	1981.15
156	Diisopropyl ether	45	3.623	3.619	(0.752)	651361	100.000	92.30
162	Butyl acrylate	55	8.729	8.733	(1.066)	408695	100.000	98.59
187	n-Amyl acetate	43	8.928	8.931	(1.091)	388877	100.000	99.61
164	Dicyclopentadiene	66	10.198	10.198	(1.003)	944339	100.000	94.94
166	1,2,3-Trimethylbenzene	105	10.232	10.232	(1.006)	651618	100.000	95.69
167	Ethanol	45	2.090	2.086	(0.434)	59044	2000.00	1990.50
172	tert-Butyl formate	59	5.246	5.250	(1.090)	431666	200.000	197.72
173	3,3-Dimethyl-1-butanol	57	7.780	7.784	(0.951)	478667	2000.00	1912.89
174	tert-Amyl methyl ether	73	5.288	5.284	(1.098)	628654	100.000	97.21
175	tert-Butyl ethyl ether	59	4.054	4.047	(0.842)	585044	100.000	92.55
176	tert-Amyl alcohol	59	5.246	5.250	(1.090)	431666	2000.00	1954.50
151	4-Methyl-2-pentanol	45	7.218	7.222	(1.300)	1368113	2000.00	1964.30
140	1,3-Butadiene	54	1.408	1.396	(0.292)	102671	100.000	100.40
182	Epichlorohydrin	57	6.630	6.630	(1.194)	61001	400.000	399.90
M 94	1,2-Dichloroethylene (total)	96				428560	200.000	(a)
145	alpha-Methylstyrene	118	9.752	9.752	(0.959)	307618	100.000	99.23
130	Ethyl Acetate	43	4.343	4.339	(0.902)	238681	100.000	93.76
131	Methyl Acrylate	55	4.373	4.365	(0.908)	259299	100.000	98.33
189	n-Butyl acetate	43	7.702	7.702	(0.941)	380886	100.000	100.91
134	Cyclohexanone	55	9.152	9.152	(0.900)	221511	2000.00	1965.66
185	Isoprene	39	2.157	2.146	(0.448)	45875	100.000	99.89
188	Isopropyl acetate	43	5.288	5.284	(0.952)	630116	100.000	95.20
150	Allyl alcohol	57	3.342	3.331	(0.694)	189432	2000.00	1968.84
194	Acetaldehyde	44	1.464	1.453	(0.304)	187809	400.000	394.84(M)
195	Methyl Amyl Ketone	43	8.868	8.868	(1.083)	438157	100.000	100.04
200	Dimethyl Disulfide	94	6.746	6.746	(0.824)	196799	100.000	95.46
202	Isobutylene	41	1.749	1.734	(0.363)	91262	100.000	102.56(M)

133 Ethyl Acrylate	55	5.947	5.944 (1.235)	512252	100.000	99.54
163 Butyl methacrylate	41	9.647	9.647 (0.949)	223010	100.000	99.38

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
159 Propylene oxide	43	2.202	2.191	(0.457)	32032	200.000	197.49
203 2-Ethylhexyl Acrylate	55	12.039	12.039	(1.184)	271079	100.000	101.37

QC Flag Legend

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



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052909.D
Date : 29-MAY-2024 13:10
Client ID: VSTD100
Sample Info: VSTD100;VSTD100;1;8
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9.i
Operator: FT
Column diameter: 0.18

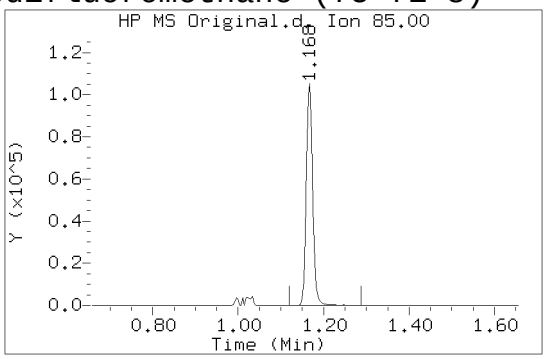
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Data File : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052909.D
Inj Date : 29-MAY-2024 13:10
InstruID : VOA9.i
LabSampID : VSTD100

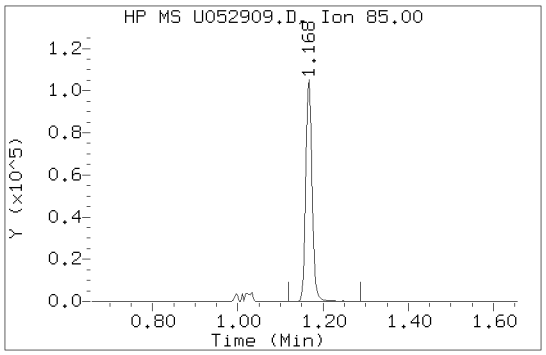
Dichlorodifluoromethane (75-71-8)

Reason Code:

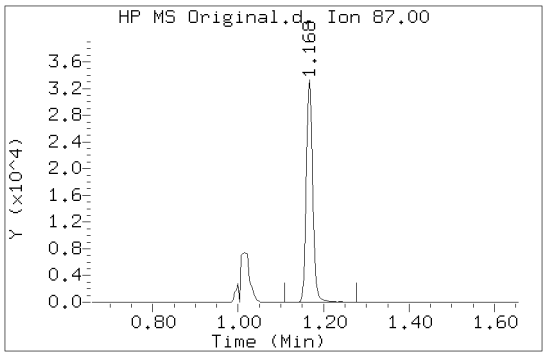
BEFORE
MASS
85
AREA
110361
HEIGHT
105216
06-Jun-2024
17:20
s
zaid



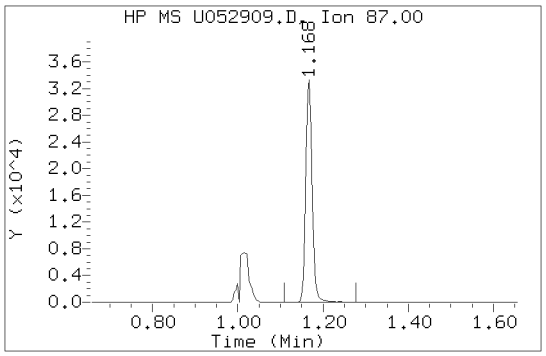
AFTER
MASS
85
AREA
110361
HEIGHT
105216
07-Jun-2024
10:36



BEFORE
MASS
87
AREA
35215
HEIGHT
33296
06-Jun-2024
17:20
s
zaid



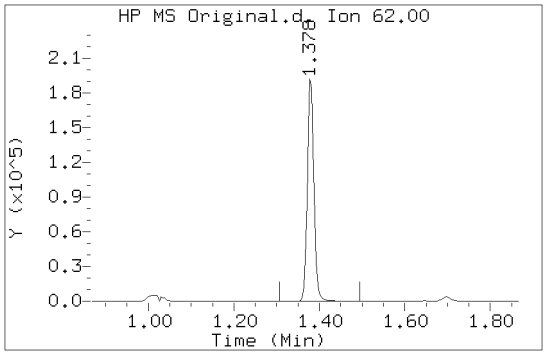
AFTER
MASS
87
AREA
35215
HEIGHT
33296
07-Jun-2024
10:36



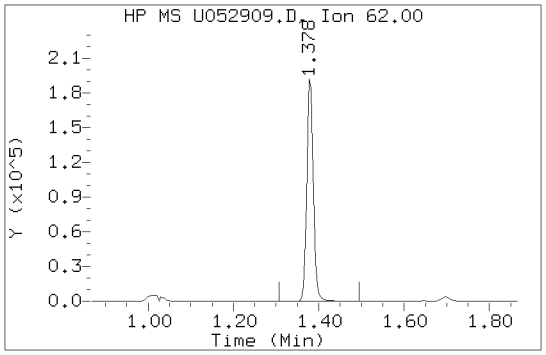
Vinyl Chloride (75-01-4)

Reason Code:

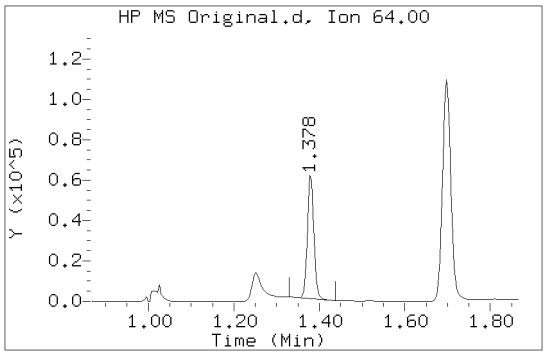
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MASS
62
AREA
210426
HEIGHT
192023
06-Jun-2024
17:20
s
zaid



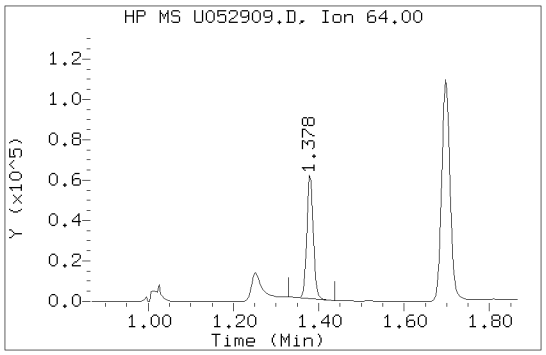
AFTER
MASS
62
AREA
210426
HEIGHT
192023
07-Jun-2024
10:36



BEFORE
MASS
64
AREA
65792
HEIGHT
60943
06-Jun-2024
17:20
s
zaid



AFTER
MASS
64
AREA
65792
HEIGHT
60943
07-Jun-2024
10:36



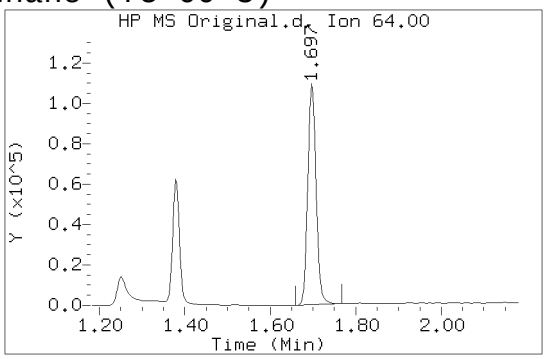
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Inj Date : 29-MAY-2024 13:10
InstruID : VOA9.i
LabSampID : VSTD100

Chloroethane (75-00-3)

Reason Code:

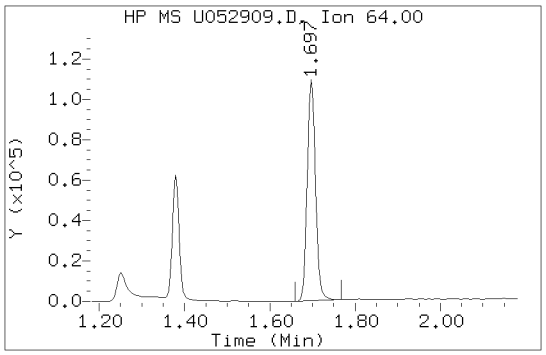
BEFORE

MASS
64
AREA
148667
HEIGHT
109387
06-Jun-2024
17:20
s
zaid



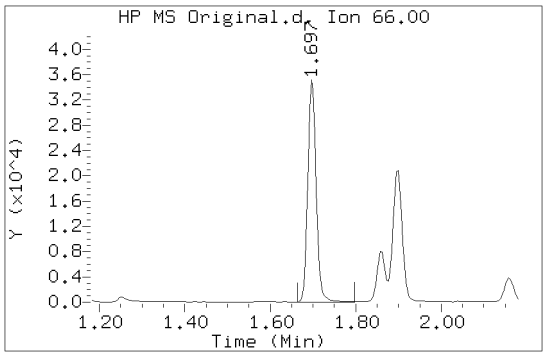
AFTER

MASS
64
AREA
148667
HEIGHT
109387
07-Jun-2024
10:36



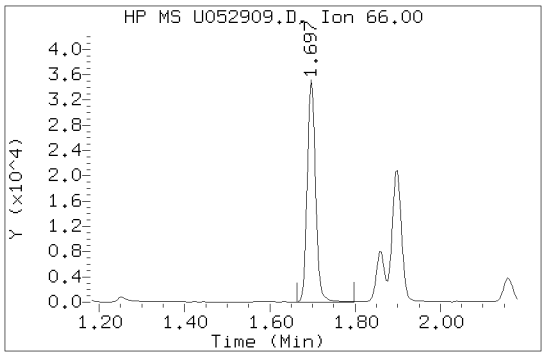
BEFORE

MASS
66
AREA
48306
HEIGHT
35184
06-Jun-2024
17:20
s
zaid



AFTER

MASS
66
AREA
48306
HEIGHT
35184
07-Jun-2024
10:36

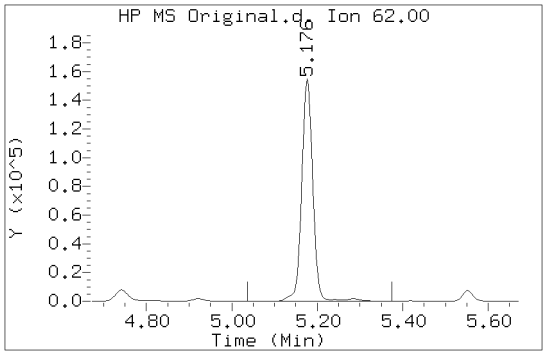


1,2-Dichloroethane (107-06-2)

Reason Code:

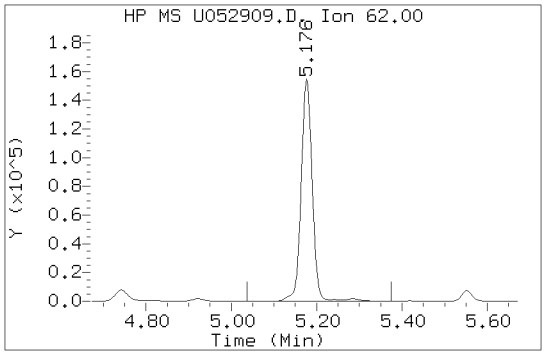
BEFORE

MASS
62
AREA
287619
HEIGHT
154838
06-Jun-2024
17:20
s
zaid



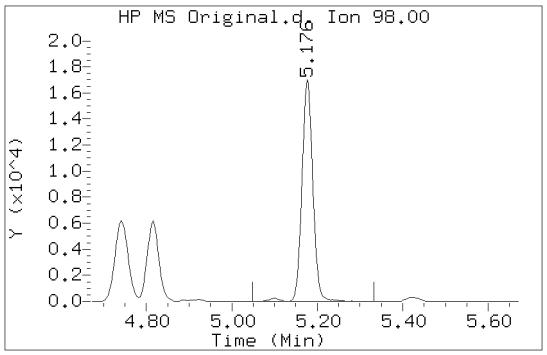
AFTER

MASS
62
AREA
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HEIGHT
154838
07-Jun-2024
10:36



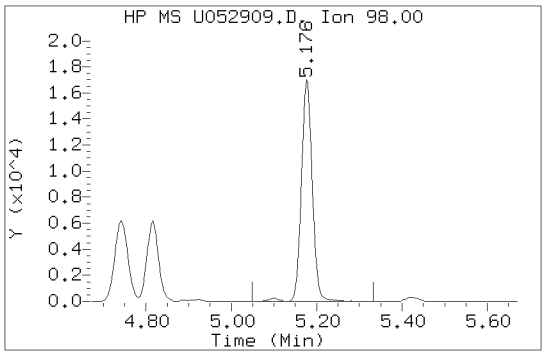
BEFORE

MASS
98
AREA
30961
HEIGHT
17016
06-Jun-2024
17:20
s
zaid



AFTER

MASS
98
AREA
30961
HEIGHT
17016
07-Jun-2024
10:36

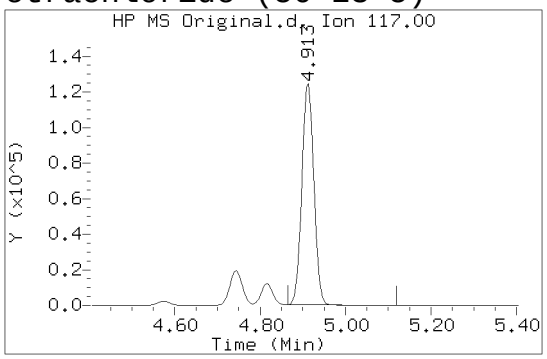


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Inj Date : 29-MAY-2024 13:10
InstruID : VOA9.i
LabSampID : VSTD100

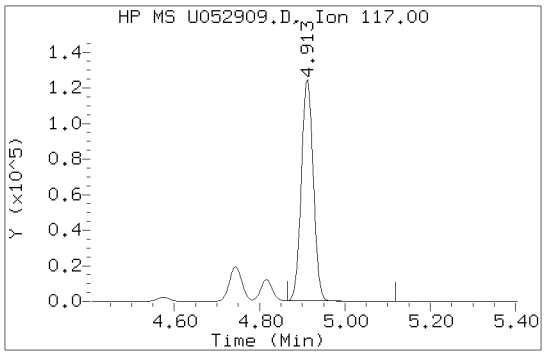
Carbon Tetrachloride (56-23-5)

Reason Code:

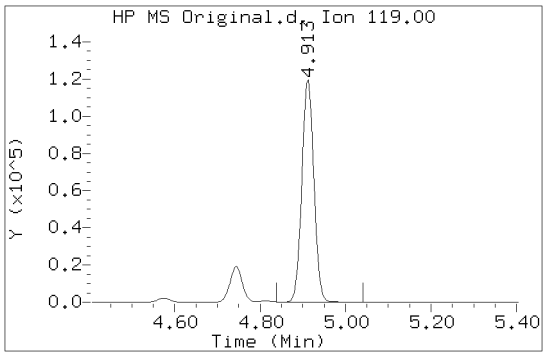
BEFORE
MASS
117
AREA
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HEIGHT
124401
06-Jun-2024
17:20
s
zaid



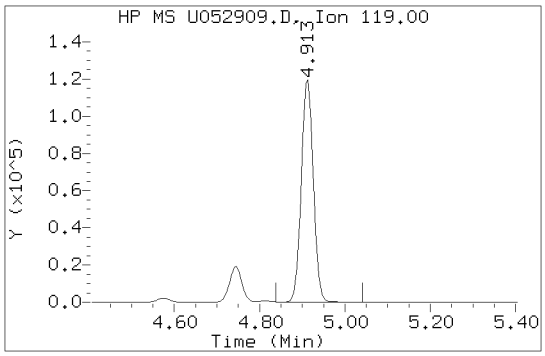
AFTER
MASS
117
AREA
245615
HEIGHT
124401
07-Jun-2024
10:36



BEFORE
MASS
119
AREA
236870
HEIGHT
119487
06-Jun-2024
17:20
s
zaid



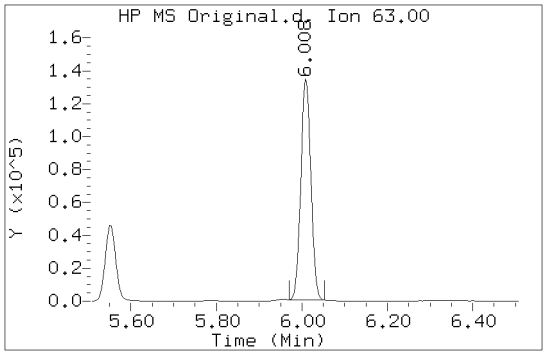
AFTER
MASS
119
AREA
236870
HEIGHT
119487
07-Jun-2024
10:36



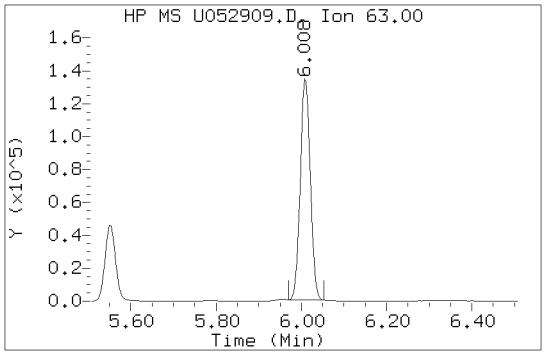
1,2-Dichloropropane (78-87-5)

Reason Code:

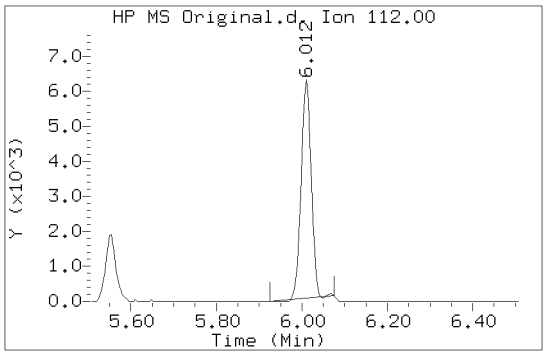
BEFORE
MASS
63
AREA
224092
HEIGHT
134447
06-Jun-2024
17:20
s
zaid



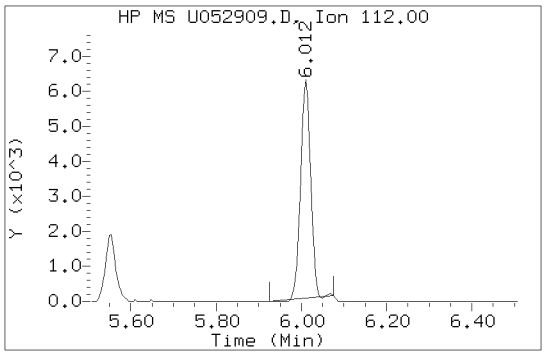
AFTER
MASS
63
AREA
224092
HEIGHT
134447
07-Jun-2024
10:36



BEFORE
MASS
112
AREA
10327
HEIGHT
6242
06-Jun-2024
17:20
s
zaid



AFTER
MASS
112
AREA
10327
HEIGHT
6242
07-Jun-2024
10:36



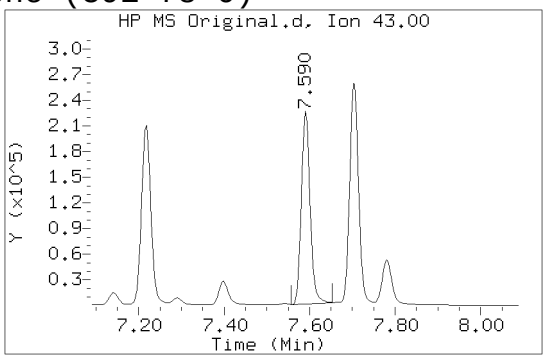
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Inj Date : 29-MAY-2024 13:10
InstruID : VOA9.i
LabSampID : VSTD100

2-Hexanone (591-78-6)

Reason Code:

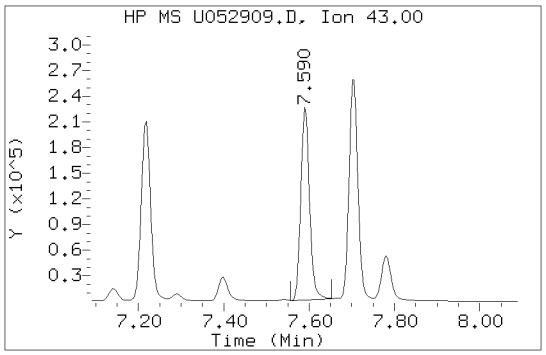
BEFORE

MASS
43
AREA
326398
HEIGHT
225146
06-Jun-2024
17:20
s
zaid



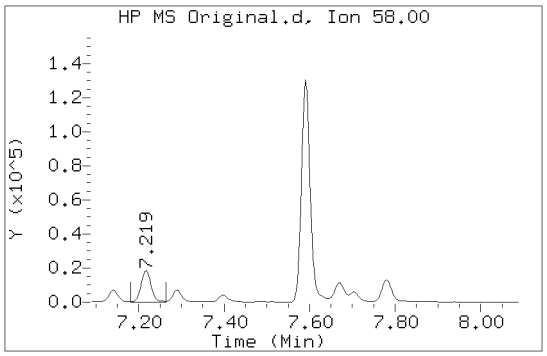
AFTER

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HEIGHT
225146
07-Jun-2024
10:36



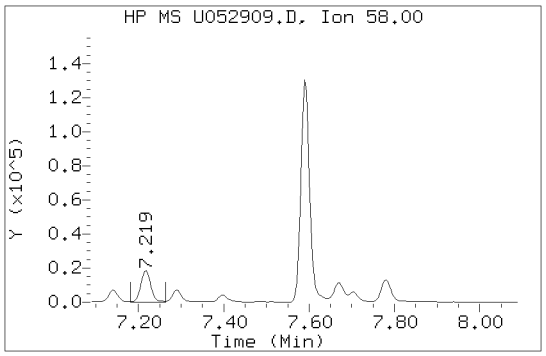
BEFORE

MASS
58
AREA
30330
HEIGHT
18390
06-Jun-2024
17:20
s
zaid



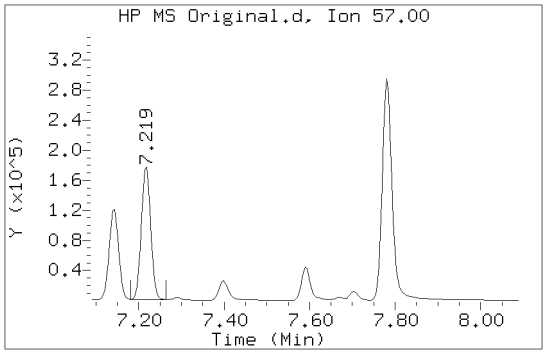
AFTER

MASS
58
AREA
30330
HEIGHT
18390
07-Jun-2024
10:36



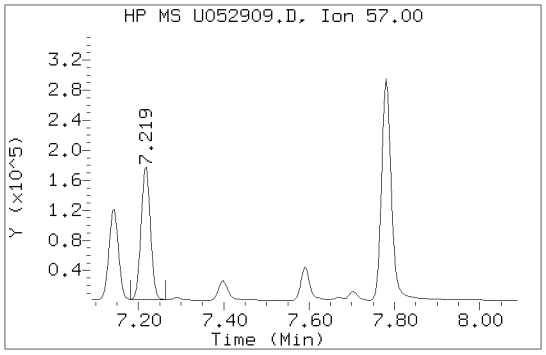
BEFORE

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57
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269940
HEIGHT
176071
06-Jun-2024
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s
zaid



AFTER

MASS
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269940
HEIGHT
176071
07-Jun-2024
10:36

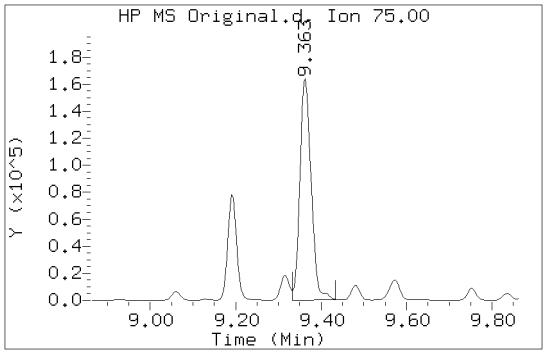


1,2,3-Trichloropropane (96-18-4)

Reason Code:

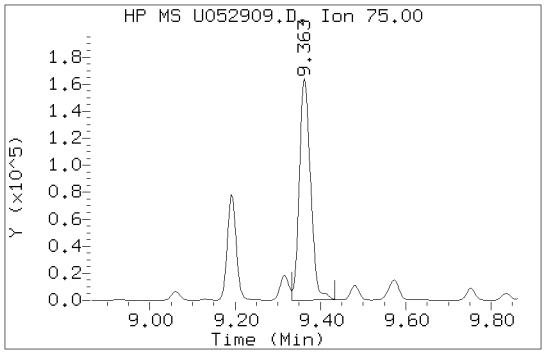
BEFORE

MASS
75
AREA
305205
HEIGHT
163758
06-Jun-2024
17:20
s
zaid



AFTER

MASS
75
AREA
305205
HEIGHT
163758
07-Jun-2024
10:36

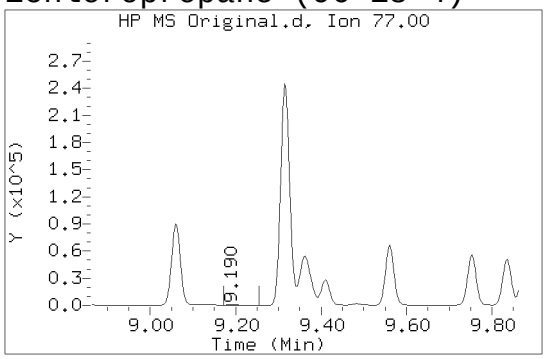


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Inj Date : 29-MAY-2024 13:10
InstruID : VOA9.i
LabSampID : VSTD100

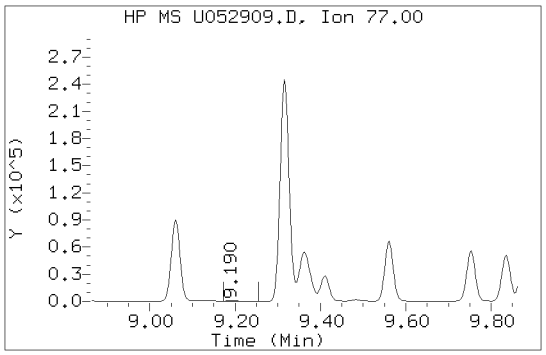
1,2,3-Trichloropropane (96-18-4)

Reason Code:

BEFORE
MASS
77
AREA
1513
HEIGHT
932
06-Jun-2024
17:20
s
zaid



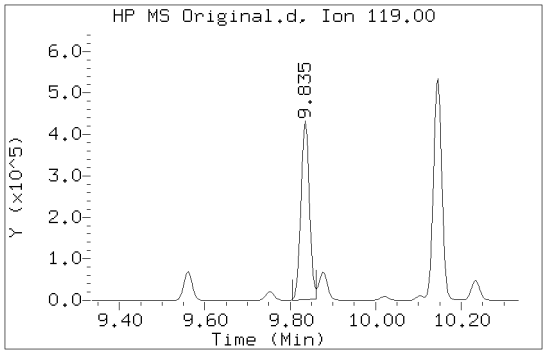
AFTER
MASS
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AREA
1513
HEIGHT
932
07-Jun-2024
10:36



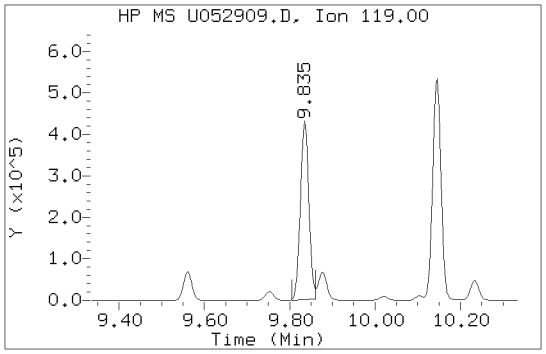
tert-Butylbenzene (98-06-6)

Reason Code:

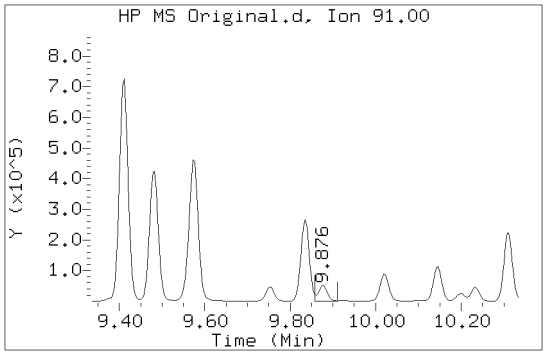
BEFORE
MASS
119
AREA
612706
HEIGHT
431178
06-Jun-2024
17:20
s
zaid



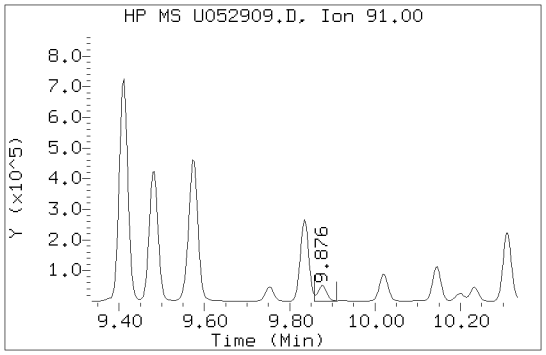
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AREA
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HEIGHT
431178
07-Jun-2024
10:36



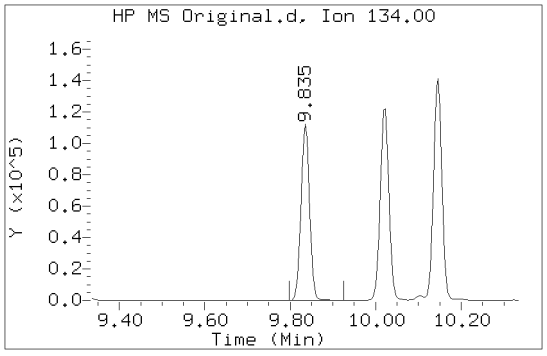
BEFORE
MASS
91
AREA
75838
HEIGHT
50917
06-Jun-2024
17:20
s
zaid



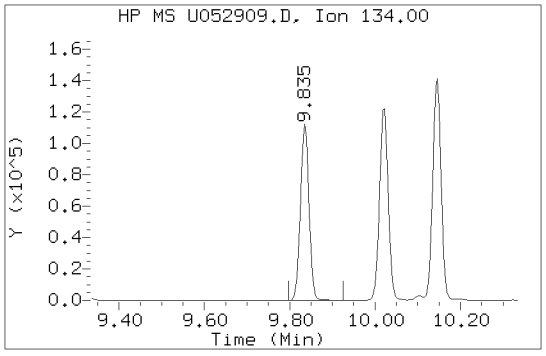
AFTER
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91
AREA
75838
HEIGHT
50917
07-Jun-2024
10:36



BEFORE
MASS
134
AREA
159747
HEIGHT
112160
06-Jun-2024
17:20
s
zaid



AFTER
MASS
134
AREA
159747
HEIGHT
112160
07-Jun-2024
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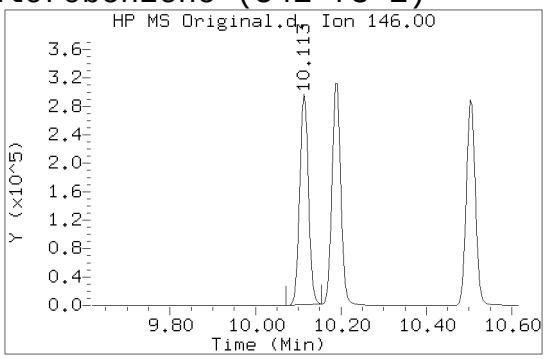
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Inj Date : 29-MAY-2024 13:10
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LabSampID : VSTD100

1,3-Dichlorobenzene (541-73-1)

Reason Code:

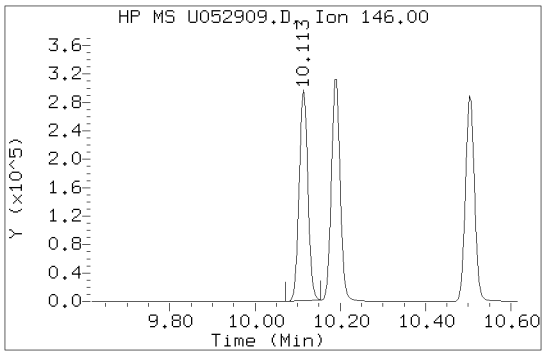
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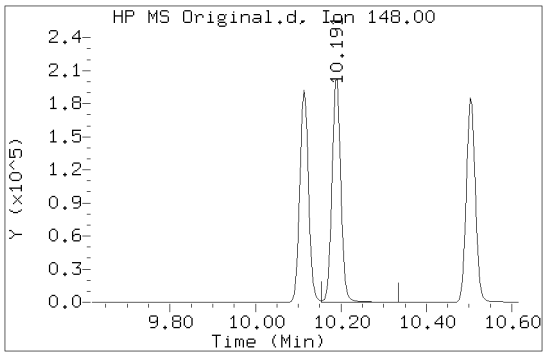
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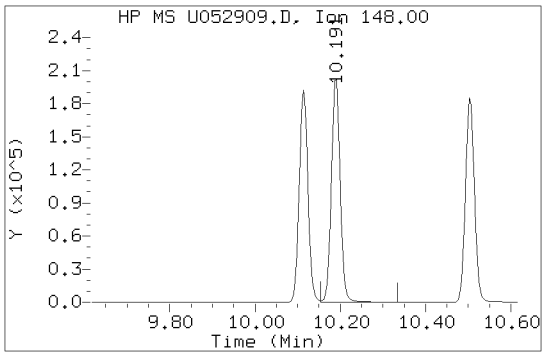
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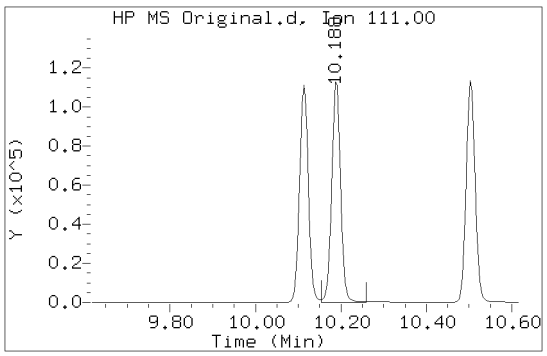
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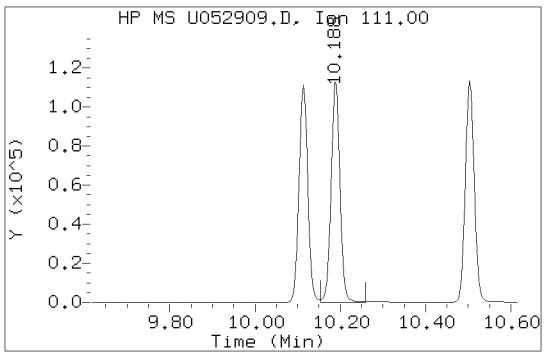
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AFTER

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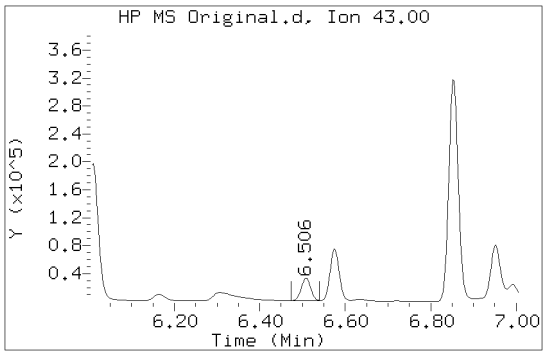


2-Nitropropane (79-46-9)

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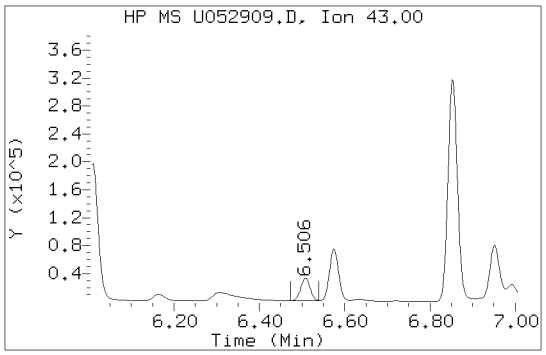
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AFTER

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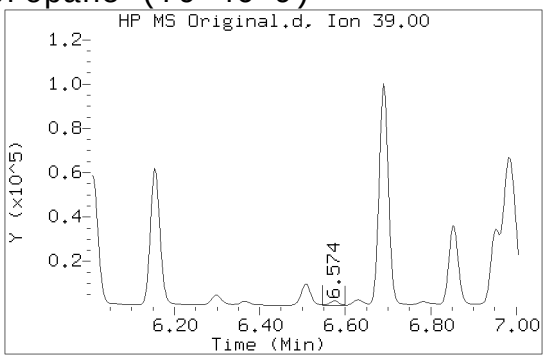
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LabSampID : VSTD100

2-Nitropropane (79-46-9)

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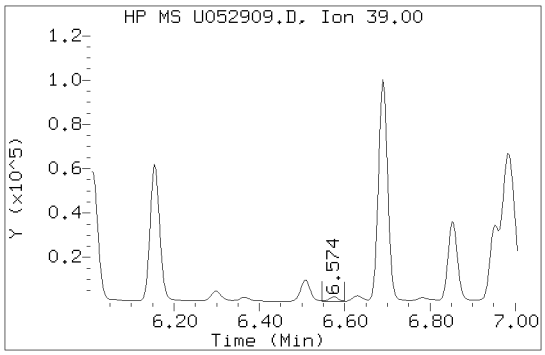
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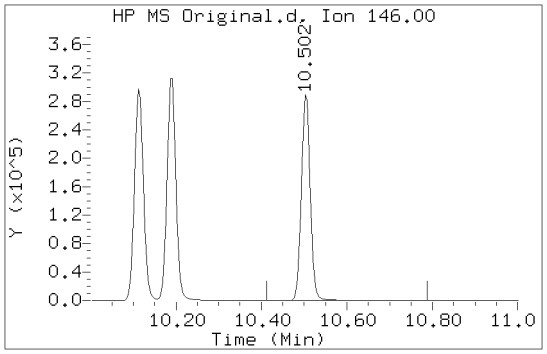


1,2-Dichlorobenzene (95-50-1)

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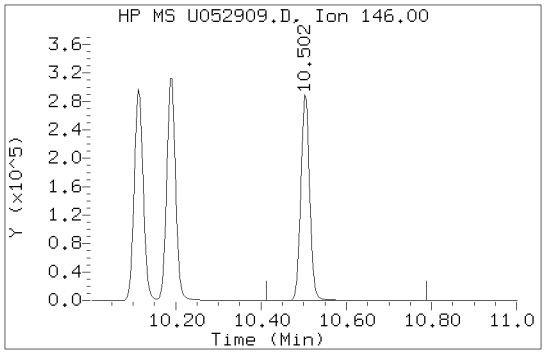
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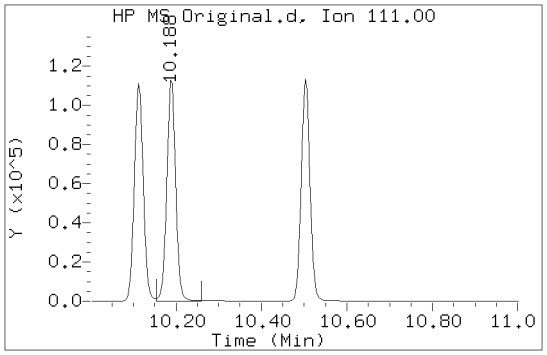
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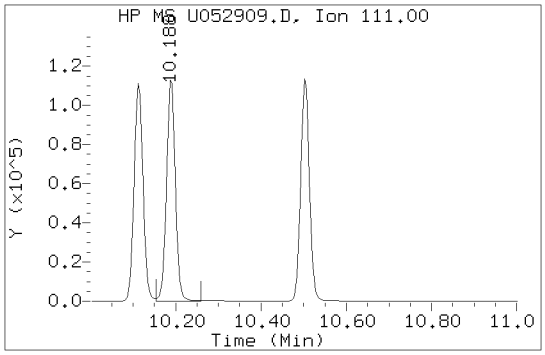
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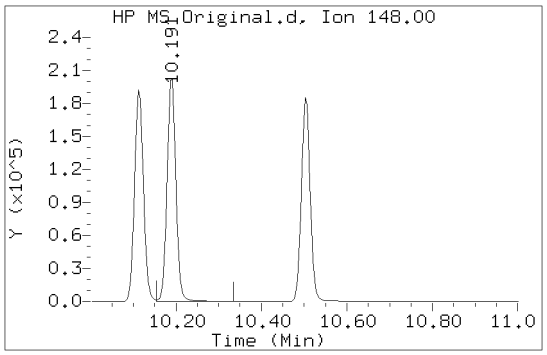
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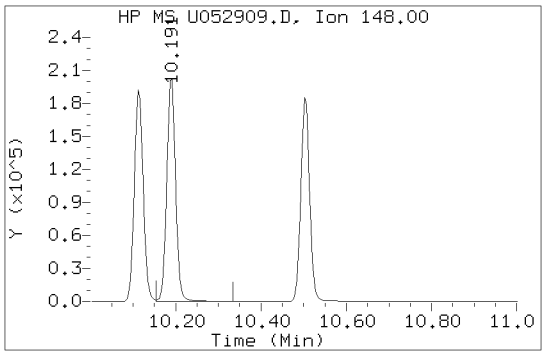
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AFTER

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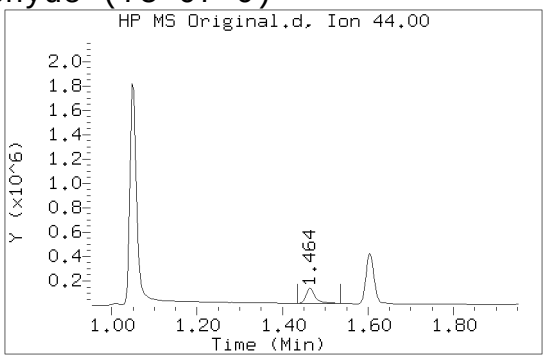


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InstruID : VOA9.i
LabSampID : VSTD100

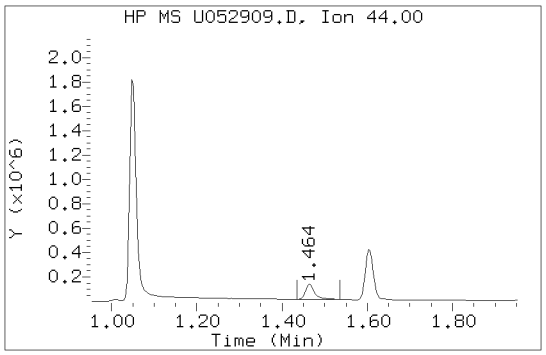
Acetaldehyde (75-07-0)

Reason Code:

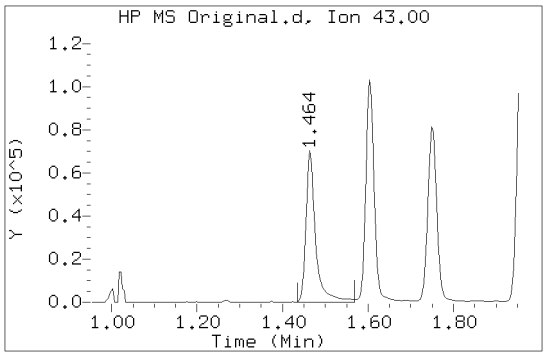
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06-Jun-2024
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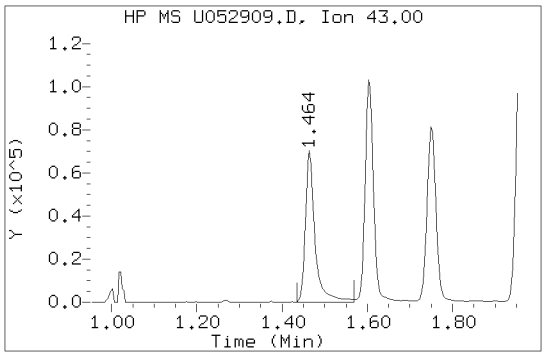
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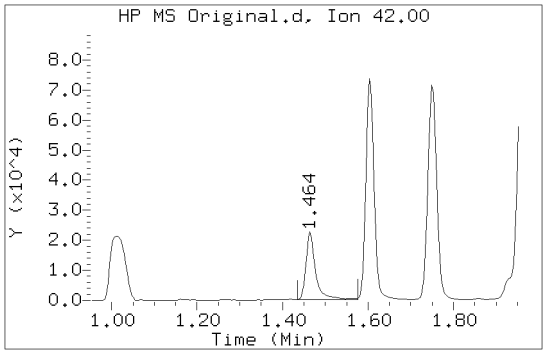
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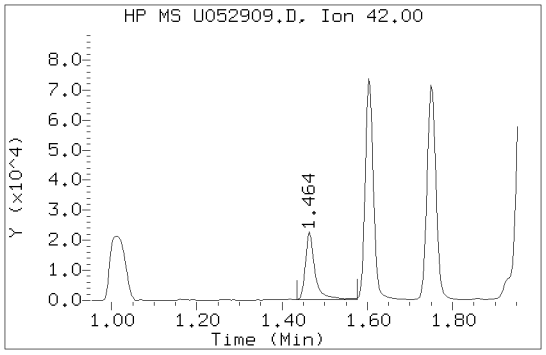
AFTER
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BEFORE
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17:20
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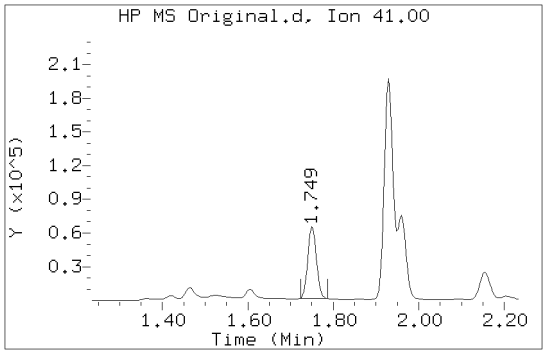
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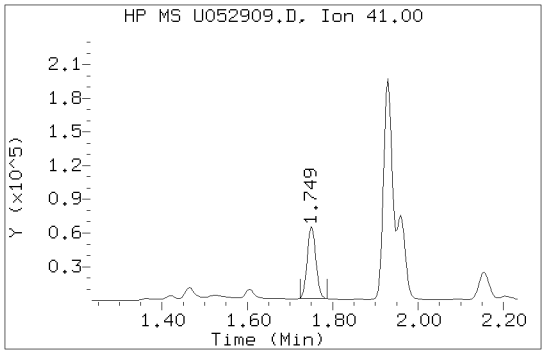
Isobutylene (115-11-7)

Reason Code:

BEFORE
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06-Jun-2024
17:20
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zaid



AFTER
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07-Jun-2024
10:36



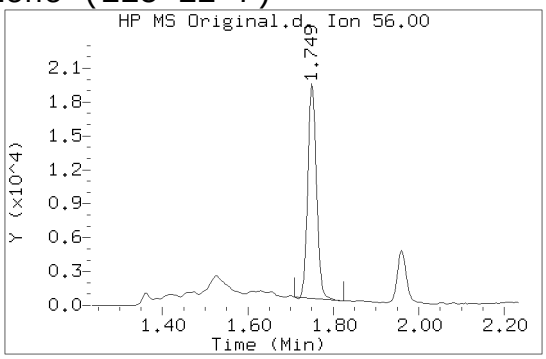
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Inj Date : 29-MAY-2024 13:10
InstruID : VOA9.i
LabSampID : VSTD100

Isobutylene (115-11-7)

Reason Code:

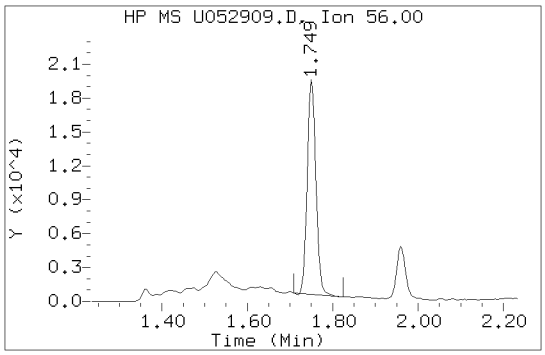
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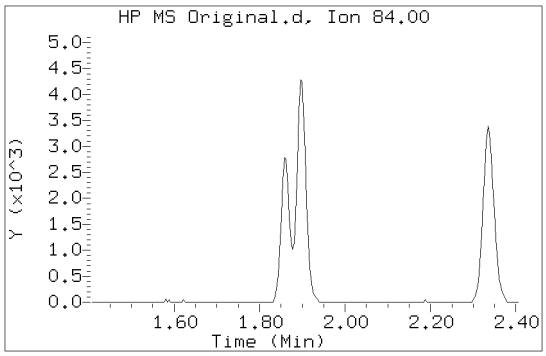
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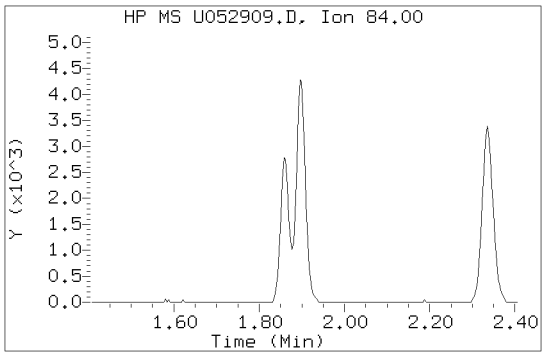
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AFTER

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HEIGHT
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07-Jun-2024
10:36



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052910.D Page 1
Report Date: 07-Jun-2024 10:54

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052910.D
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Inj Date : 29-MAY-2024 13:31
Operator : FT Inst ID: VOA9.i
Smp Info : VSTD150;VSTD150;1;9
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240529.b\8260C.m
Meth Date : 07-Jun-2024 10:14 r.patel Quant Type: ISTD
Cal Date : 29-MAY-2024 13:31 Cal File: U052910.D
Als bottle: 10 Calibration Sample, Level: 9
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14

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	4.812	4.811	(1.000)	280064	50.0000	
2	Dichlorodifluoromethane	85	1.160	1.156	(0.241)	177050	150.000	169.57(M)
3	Chloromethane	50	1.292	1.288	(0.269)	564726	150.000	152.69
4	Propionitrile	54	4.339	4.339	(0.902)	508916	1500.00	1502.94
5	Vinyl Chloride	62	1.374	1.366	(0.286)	338607	150.000	160.10(M)
6	Bromomethane	94	1.603	1.595	(0.333)	134828	150.000	149.76
7	Chloroethane	64	1.689	1.681	(0.351)	238484	150.000	151.49(M)
8	Trichlorofluoromethane	101	1.891	1.884	(0.393)	421897	150.000	167.98
9	Acrolein	56	2.262	2.259	(0.470)	33211	300.000	305.58
10	Acetone	43	2.409	2.405	(0.501)	258229	300.000	316.05
11	1,1-Dichloroethene	96	2.326	2.322	(0.484)	288038	150.000	156.01
12	Isobutyl Alcohol	43	5.284	5.284	(1.098)	1019170	3000.00	2949.71
13	Acetonitrile	39	2.667	2.663	(0.554)	357657	1500.00	1574.32
14	Allyl Chloride	41	2.671	2.667	(0.555)	885047	150.000	151.66
16	Acrylonitrile	53	3.065	3.061	(0.637)	251557	300.000	304.15
17	Methylene Chloride	84	2.787	2.783	(0.579)	334515	150.000	150.72
18	Methyl tert-butyl ether	73	3.080	3.076	(0.640)	834255	150.000	151.71
19	Carbon Disulfide	76	2.514	2.510	(0.522)	1648106	300.000	318.22
20	trans-1,2-Dichloroethene	96	3.053	3.050	(0.635)	306881	150.000	146.99
21	Vinyl Acetate	43	4.339	4.339	(0.902)	375770	300.000	304.46
22	1,1-Dichloroethane	63	3.511	3.507	(0.730)	565818	150.000	141.08

23 Chloroprene	53	3.604	3.601 (0.749)	479332	150.000	162.99
24 2-Butanone	43	4.264	4.260 (0.886)	372537	300.000	297.65

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052910.D Page 2
Report Date: 07-Jun-2024 10:54

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	25 Methacrylonitrile	41	4.493	4.489	(0.934)	208472	150.000	148.26(a)
	26 2,2-Dichloropropane	77	4.178	4.174	(0.868)	437898	150.000	166.35
	27 cis-1,2-Dichloroethene	96	4.193	4.189	(0.871)	368949	150.000	143.09
	28 Chloroform	83	4.572	4.568	(0.950)	573965	150.000	143.33
	29 Bromochloromethane	128	4.467	4.463	(0.928)	178579	150.000	149.92
$	30 Dibromofluoromethane	113	4.744	4.744	(0.986)	285257	150.000	151.49
	31 1,1,1-Trichloroethane	97	4.740	4.736	(0.985)	483999	150.000	172.59
	32 1,1-Dichloropropene	75	4.920	4.916	(0.887)	461502	150.000	158.72
	33 1,2-Dichloroethane	62	5.175	5.171	(0.932)	449209	150.000	149.17(M)
	34 Carbon Tetrachloride	117	4.909	4.905	(0.885)	409418	150.000	179.75(M)
$	35 1,2-Dichloroethane-d4	65	5.096	5.093	(1.059)	321896	150.000	148.69
*	36 1,4-Difluorobenzene	114	5.550	5.550	(1.000)	401441	50.0000	
	37 Benzene	78	5.138	5.134	(0.926)	1349201	150.000	142.68
	38 Trichloroethene	130	5.786	5.786	(1.043)	358370	150.000	153.98
	39 Bromodichloromethane	83	6.277	6.277	(1.131)	421785	150.000	165.85
	40 Methyl Methacrylate	41	5.824	5.827	(1.210)	167428	150.000	153.42
	41 2-Chloroethylvinyl ether	63	6.573	6.573	(1.184)	309450	300.000	306.63
	42 1,2-Dichloropropane	63	6.007	6.007	(1.082)	358971	150.000	143.94(M)
	43 2-Nitropropane	43	6.506	6.506	(1.352)	89884	150.000	155.54(M)
	44 Dibromomethane	93	6.116	6.116	(1.102)	214110	150.000	147.84
	45 4-Methyl-2-Pentanone	43	6.851	6.851	(0.837)	794722	300.000	301.99
	46 cis-1,3-Dichloropropene	75	6.690	6.690	(1.205)	565316	150.000	151.74
*	47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	366418	50.0000	
$	48 Toluene-d8	98	6.918	6.918	(0.845)	1052895	150.000	150.27
	49 Ethyl Methacrylate	69	7.289	7.289	(1.313)	504931	150.000	162.60
	50 Toluene	91	6.978	6.978	(0.853)	1394273	150.000	140.17
	51 trans-1,3-Dichloropropene	75	7.196	7.196	(1.296)	471401	150.000	152.23
	52 2-Hexanone	43	7.589	7.589	(0.927)	541778	300.000	306.99(M)
	53 1,1,2-Trichloroethane	83	7.353	7.353	(0.898)	269298	150.000	150.24
	54 1,3-Dichloropropane	76	7.496	7.499	(0.916)	580772	150.000	143.34
	55 Dibromochloromethane	129	7.691	7.690	(0.940)	353909	150.000	151.40
	56 Tetrachloroethene	164	7.454	7.454	(0.911)	283735	150.000	163.33
	57 1,2-Dibromoethane	107	7.784	7.784	(0.951)	333089	150.000	152.27
	58 1-Chlorohexane	55	8.193	8.196	(1.476)	289826	150.000	155.31
	59 Chlorobenzene	112	8.208	8.208	(1.003)	900020	150.000	142.51
	60 1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	332607	150.000	165.04
	61 Ethylbenzene	106	8.305	8.305	(1.015)	473626	150.000	152.49
	62 m,p-Xylenes	106	8.407	8.406	(1.027)	1202813	300.000	305.46
	63 o-Xylene	106	8.744	8.744	(1.068)	578662	150.000	151.10
	64 Styrene	104	8.759	8.759	(1.070)	962944	150.000	158.77
	66 Bromoform	173	8.916	8.916	(1.089)	242102	150.000	152.44
	67 Isopropylbenzene	105	9.059	9.059	(1.107)	1446088	150.000	165.34
	68 1,1,2,2-Tetrachloroethane	83	9.329	9.329	(0.917)	462436	150.000	139.91
$	69 4-Bromofluorobenzene	95	9.190	9.190	(1.123)	383258	150.000	150.59
*	70 1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	198833	50.0000	
	71 1,2,3-Trichloropropane	75	9.362	9.362	(0.921)	488547	150.000	157.63(M)
	72 trans-1,4-Dichloro-2-butene	53	9.374	9.377	(1.145)	97575	150.000	155.85
	73 n-Propylbenzene	91	9.411	9.411	(0.926)	1635000	150.000	152.58
	74 Bromobenzene	156	9.317	9.317	(0.916)	397251	150.000	145.29
	75 1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	1177381	150.000	151.79
	76 2-Chlorotoluene	91	9.482	9.482	(0.933)	992742	150.000	150.83
	77 4-Chlorotoluene	91	9.572	9.576	(0.941)	1145588	150.000	148.90

78	tert-Butylbenzene	119	9.835	9.835 (0.967)	1029053	150.000	171.05(M)
79	1,2,4-Trimethylbenzene	105	9.876	9.876 (0.971)	1177305	150.000	151.29

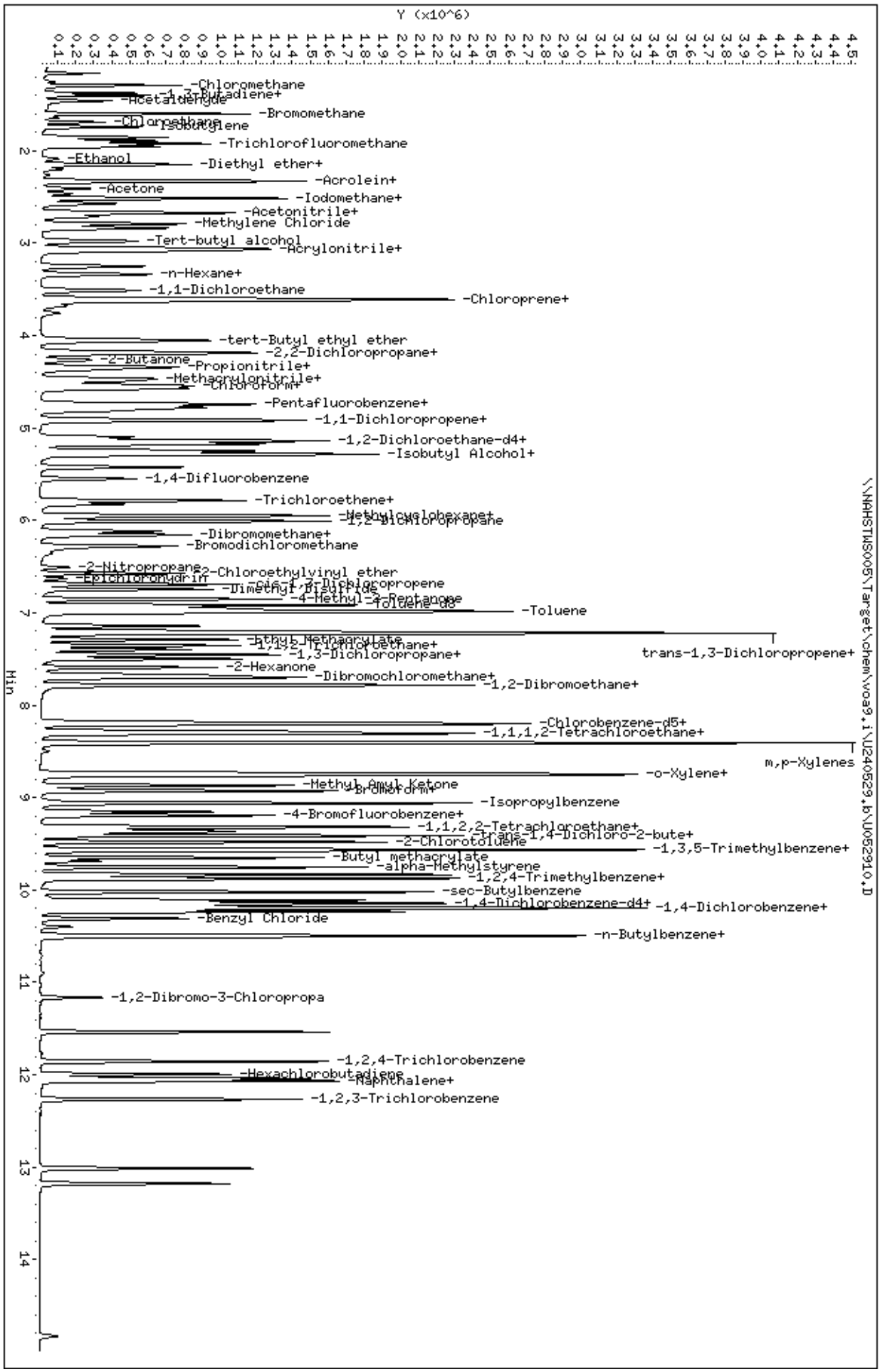
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
81	sec-Butylbenzene	105	10.022	10.022	(0.986)	1403849	150.000	171.93
82	p-Isopropyltoluene	119	10.146	10.146	(0.998)	1226585	150.000	172.39
83	1,3-Dichlorobenzene	146	10.112	10.116	(0.994)	683169	150.000	147.96(M)
84	1,4-Dichlorobenzene	146	10.191	10.191	(1.002)	720464	150.000	140.90
86	Benzyl Chloride	91	10.307	10.311	(1.259)	539443	150.000	153.49
87	n-Butylbenzene	91	10.491	10.491	(1.032)	1065723	150.000	152.68
88	1,2-Dichlorobenzene	146	10.502	10.502	(1.033)	678777	150.000	141.89(M)
89	1,2-Dibromo-3-Chloropropane	155	11.166	11.165	(1.098)	72928	150.000	151.79
90	1,2,4-Trichlorobenzene	180	11.855	11.855	(1.166)	486319	150.000	161.34
91	Hexachlorobutadiene	225	11.994	11.998	(1.180)	202483	150.000	167.42
92	Naphthalene	128	12.065	12.065	(1.187)	1179542	150.000	150.57
93	1,2,3-Trichlorobenzene	180	12.268	12.268	(1.206)	439273	150.000	156.43
146	Methyl acetate	43	2.712	2.708	(0.564)	330134	150.000	148.43
138	Freon TF	101	2.330	2.326	(0.484)	258556	150.000	152.29
141	Cyclohexane	56	4.782	4.778	(0.994)	441425	150.000	153.27
142	Tetrahydrofuran	42	4.542	4.542	(0.944)	130444	300.000	300.33
147	Methylcyclohexane	55	5.944	5.944	(1.071)	834322	150.000	152.36(A)
135	1,4-Dioxane	88	6.165	6.168	(1.281)	95387	3000.00	3093.07
132	n-Butanol	56	5.824	5.827	(1.210)	252429	3000.00	3345.82
136	n-Hexane	57	3.335	3.331	(0.693)	315804	150.000	154.00
139	Diethyl ether	59	2.143	2.139	(0.445)	240834	150.000	152.02
148	Tert-butyl alcohol	59	2.978	2.975	(0.619)	659260	3000.00	3004.53
149	Isopropyl alcohol	45	2.570	2.570	(0.534)	520251	3000.00	3002.62
152	Amyl alcohol	42	7.398	7.398	(0.904)	285246	3000.00	3072.56
156	Diisopropyl ether	45	3.619	3.619	(0.752)	1037671	150.000	145.11
162	Butyl acrylate	55	8.729	8.733	(1.066)	710720	150.000	153.96
187	n-Amyl acetate	43	8.928	8.931	(1.091)	645315	150.000	162.19
164	Dicyclopentadiene	66	10.198	10.198	(1.003)	1529157	150.000	149.94
166	1,2,3-Trimethylbenzene	105	10.232	10.232	(1.006)	1039375	150.000	148.45
167	Ethanol	45	2.086	2.086	(0.434)	97976	3000.00	3003.09
172	tert-Butyl formate	59	5.246	5.250	(1.090)	725459	300.000	327.92(A)
173	3,3-Dimethyl-1-butanol	57	7.781	7.784	(0.951)	819478	3000.00	3213.17
174	tert-Amyl methyl ether	73	5.288	5.284	(1.099)	982790	150.000	149.97
175	tert-Butyl ethyl ether	59	4.051	4.047	(0.842)	947398	150.000	147.90
176	tert-Amyl alcohol	59	5.246	5.250	(1.090)	725459	3000.00	3241.53
151	4-Methyl-2-pentanol	45	7.218	7.222	(1.301)	2335055	3000.00	3080.56
140	1,3-Butadiene	54	1.400	1.396	(0.291)	167084	150.000	161.24
182	Epichlorohydrin	57	6.630	6.630	(1.195)	103901	600.000	599.87
M 94	1,2-Dichloroethylene (total)	96				675830	300.000	(a)
145	alpha-Methylstyrene	118	9.752	9.752	(0.959)	503336	150.000	151.40
130	Ethyl Acetate	43	4.339	4.339	(0.902)	375770	150.000	145.67
131	Methyl Acrylate	55	4.369	4.365	(0.908)	426664	150.000	152.77
189	n-Butyl acetate	43	7.702	7.702	(0.941)	626312	150.000	162.81
134	Cyclohexanone	55	9.153	9.152	(0.900)	367899	3000.00	3120.85
185	Isoprene	39	2.154	2.146	(0.448)	73860	150.000	152.00
188	Isopropyl acetate	43	5.284	5.284	(0.952)	1013065	150.000	152.09
150	Allyl alcohol	57	3.335	3.331	(0.693)	315804	3000.00	3080.10
194	Acetaldehyde	44	1.456	1.453	(0.303)	305993	600.000	604.15(M)
195	Methyl Amyl Ketone	43	8.868	8.868	(1.083)	762237	150.000	170.76
200	Dimethyl Disulfide	94	6.746	6.746	(0.824)	406307	150.000	159.80
202	Isobutylene	41	1.741	1.734	(0.362)	140148	150.000	147.48(M)
133	Ethyl Acrylate	55	5.944	5.944	(1.235)	834322	150.000	151.83

163 Butyl methacrylate	41	9.647	9.647 (0.949)	384255	150.000	167.01
159 Propylene oxide	43	2.199	2.191 (0.457)	51620	300.000	303.78(A)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
203 2-Ethylhexyl Acrylate	55	12.039	12.039	(1.184)	460688	150.000	149.55

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.



Data File: \\NAHSTWS005\Target\chem\voa9,i\U240529,b\U052910,D
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Client ID: VSTD150
Sample Info: VSTD150;VSTD150;1;9
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9,i
Operator: FT
Column diameter: 0.18

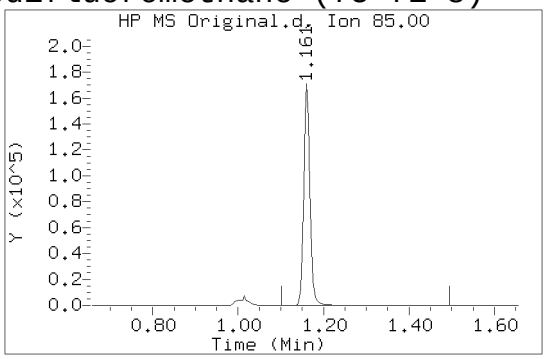
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InstruID : VOA9.i
LabSampID : VSTD150

Dichlorodifluoromethane (75-71-8)

Reason Code:

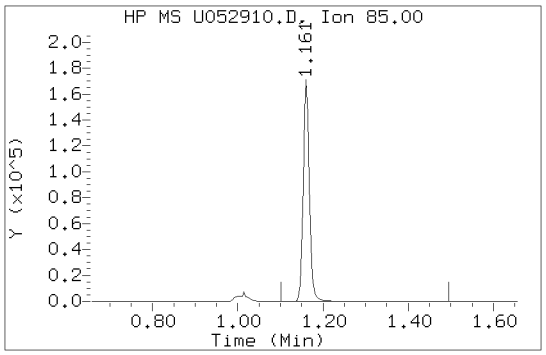
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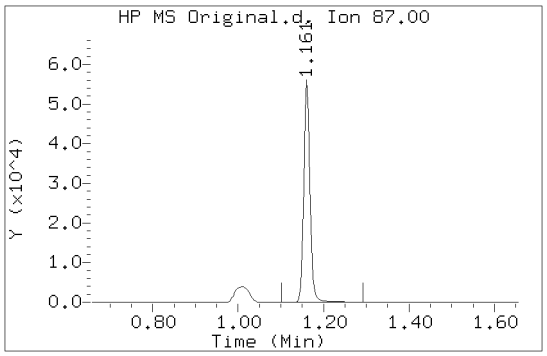
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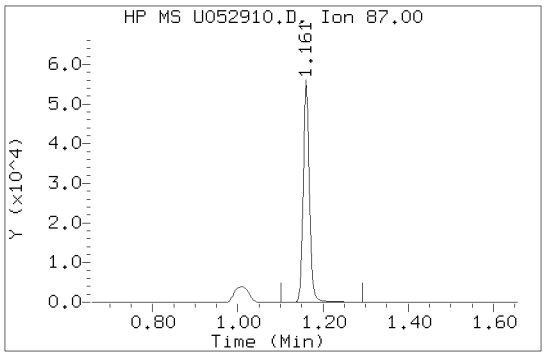
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AFTER

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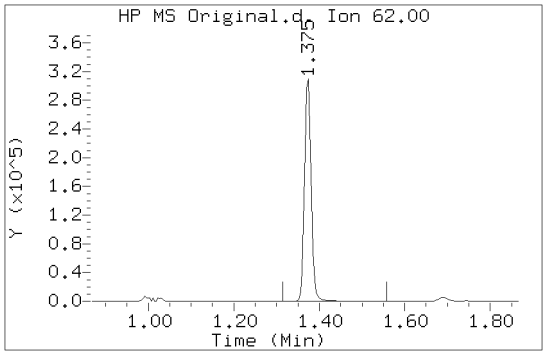


Vinyl Chloride (75-01-4)

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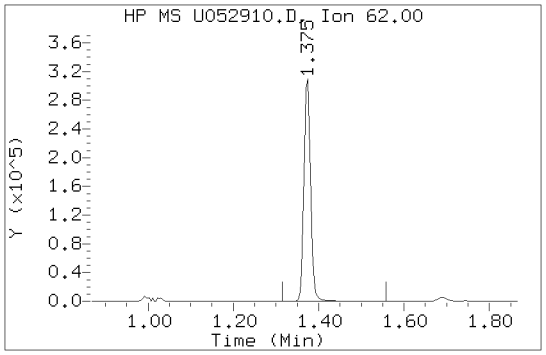
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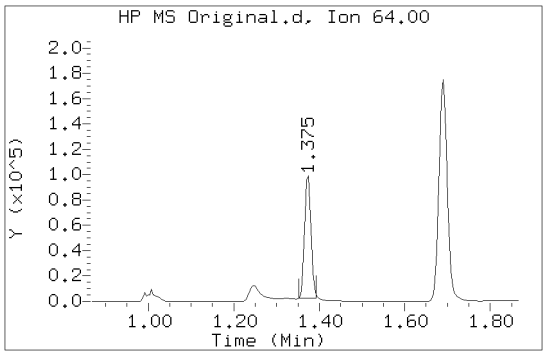
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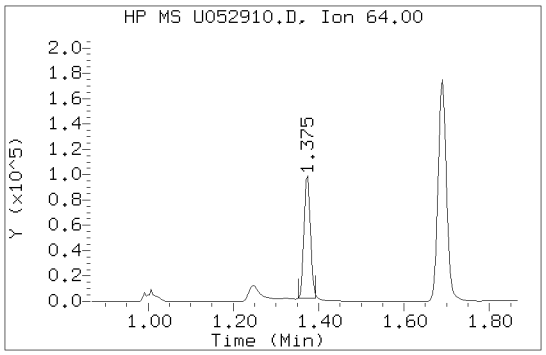
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AFTER

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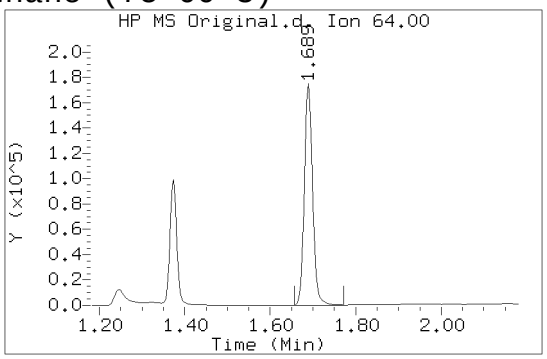


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LabSampID : VSTD150

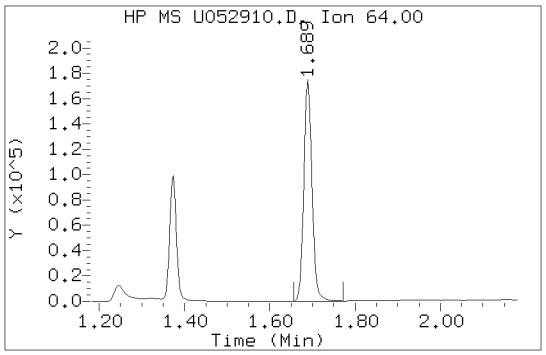
Chloroethane (75-00-3)

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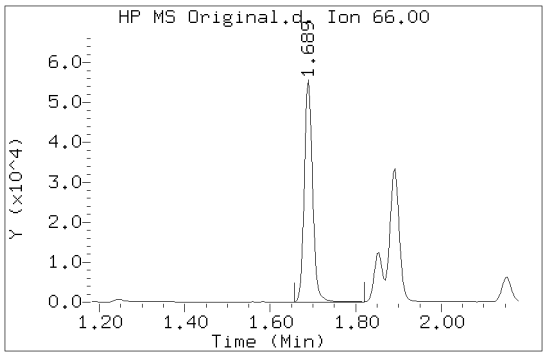
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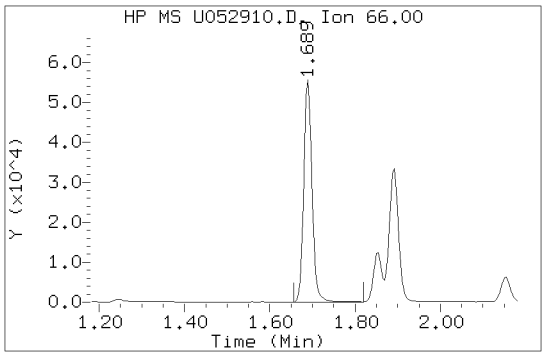
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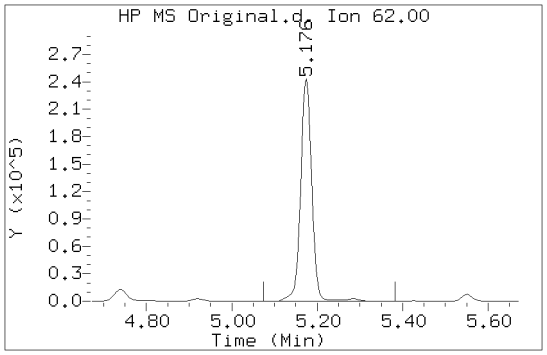
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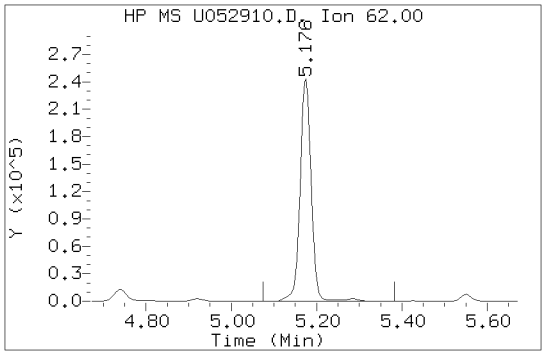
1,2-Dichloroethane (107-06-2)

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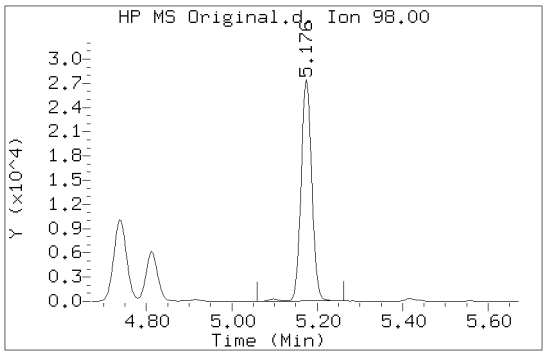
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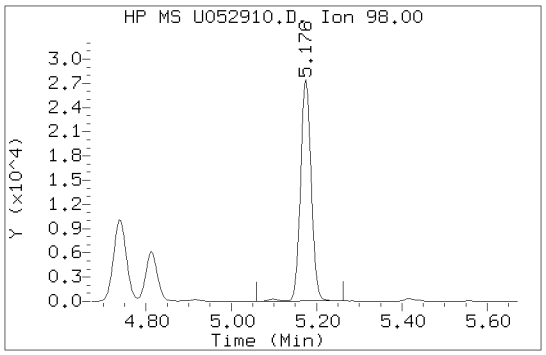
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BEFORE
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AFTER
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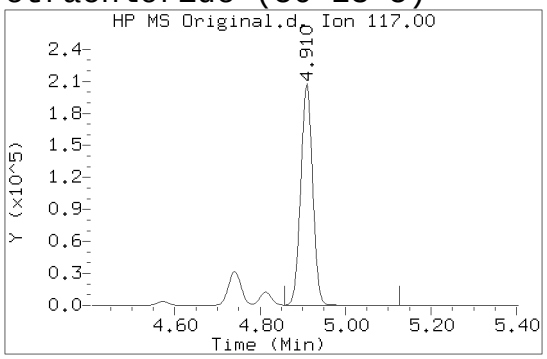


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LabSampID : VSTD150

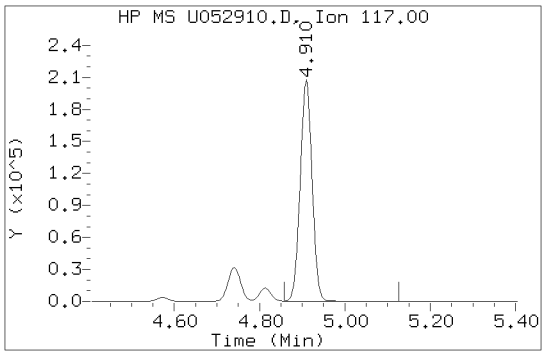
Carbon Tetrachloride (56-23-5)

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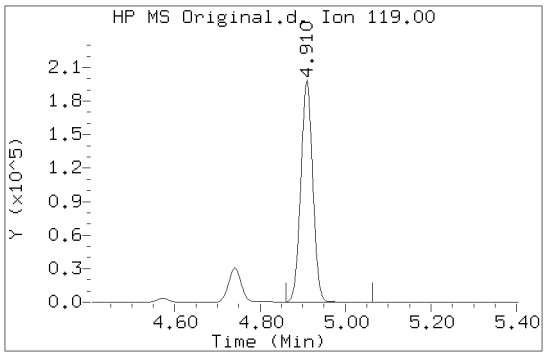
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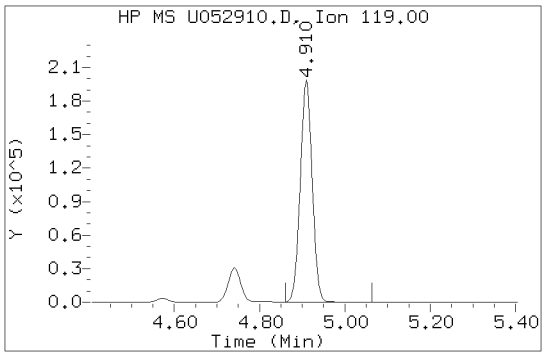
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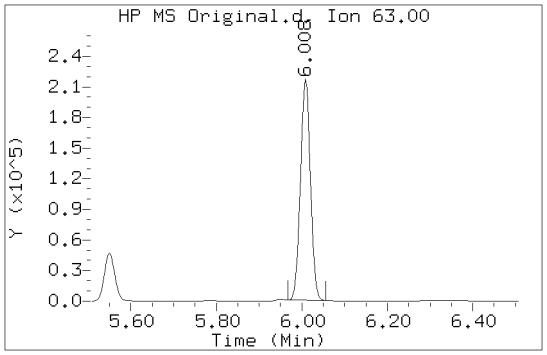
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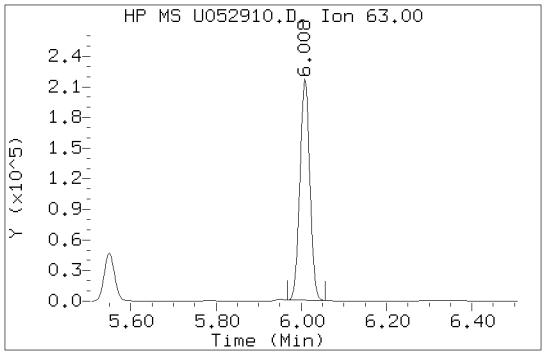
1,2-Dichloropropane (78-87-5)

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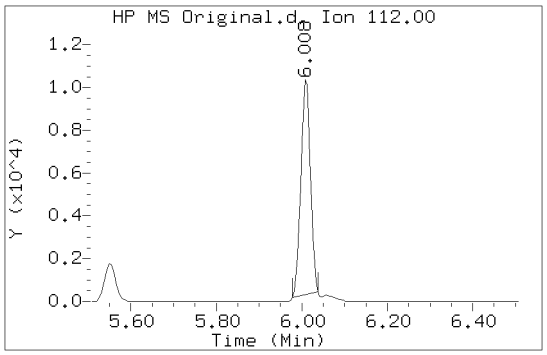
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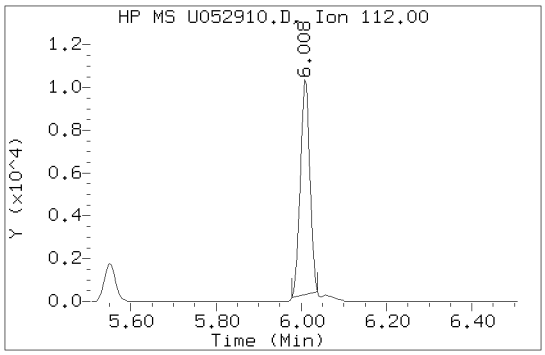
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BEFORE
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AFTER
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07-Jun-2024
10:36

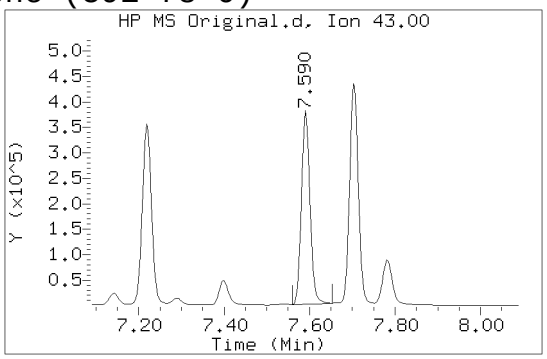


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LabSampID : VSTD150

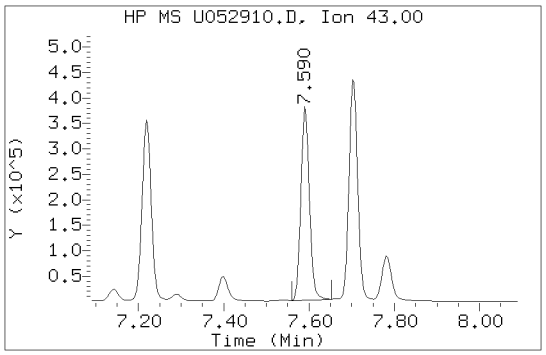
2-Hexanone (591-78-6)

Reason Code:

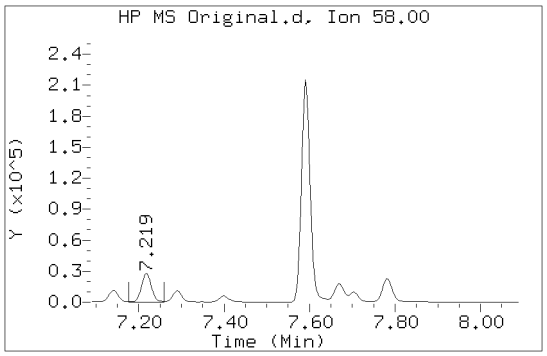
BEFORE
MASS
43
AREA
541778
HEIGHT
380028
06-Jun-2024
17:10
s
zaid



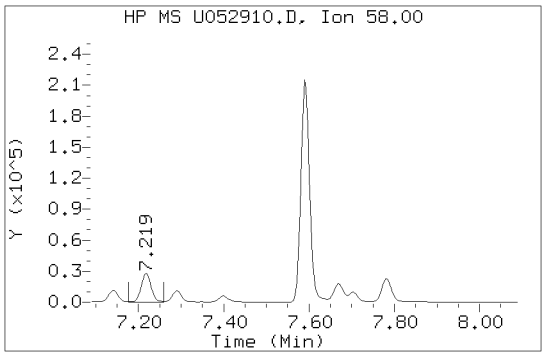
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MASS
43
AREA
541778
HEIGHT
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07-Jun-2024
10:36



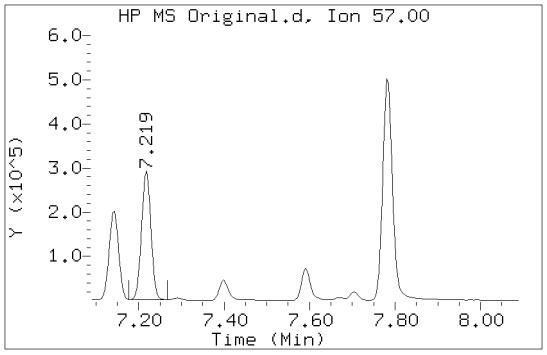
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MASS
58
AREA
44771
HEIGHT
27958
06-Jun-2024
17:10
s
zaid



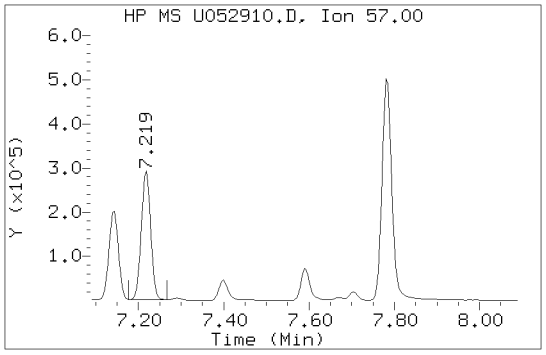
AFTER
MASS
58
AREA
44771
HEIGHT
27958
07-Jun-2024
10:36



BEFORE
MASS
57
AREA
445959
HEIGHT
292724
06-Jun-2024
17:10
s
zaid



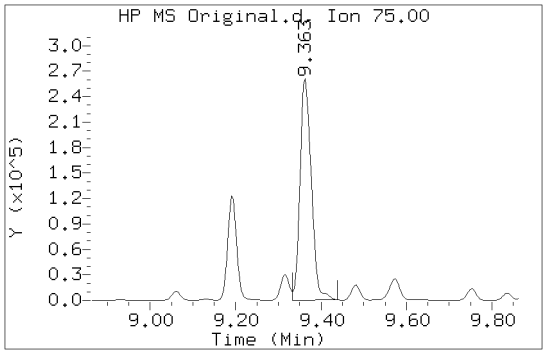
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57
AREA
445959
HEIGHT
292724
07-Jun-2024
10:36



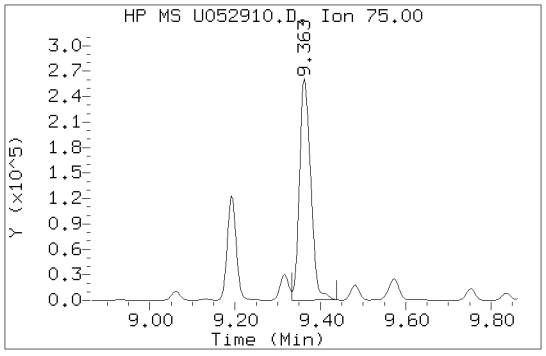
1,2,3-Trichloropropane (96-18-4)

Reason Code:

BEFORE
MASS
75
AREA
488547
HEIGHT
260819
06-Jun-2024
17:10
s
zaid



AFTER
MASS
75
AREA
488547
HEIGHT
260819
07-Jun-2024
10:36

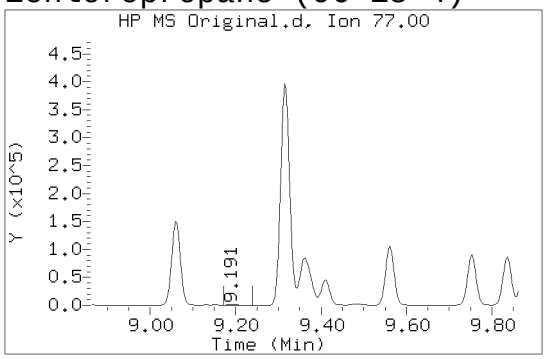


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InstruID : VOA9.i
LabSampID : VSTD150

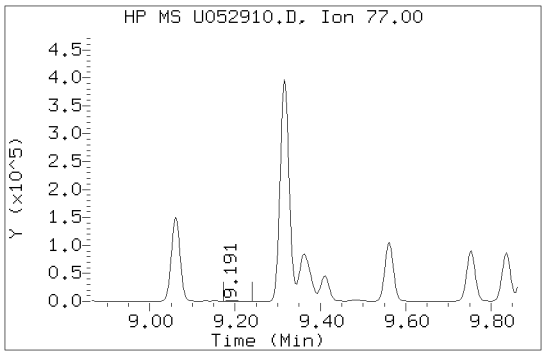
1,2,3-Trichloropropane (96-18-4)

Reason Code:

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77
AREA
2652
HEIGHT
1650
06-Jun-2024
17:10
s
zaid



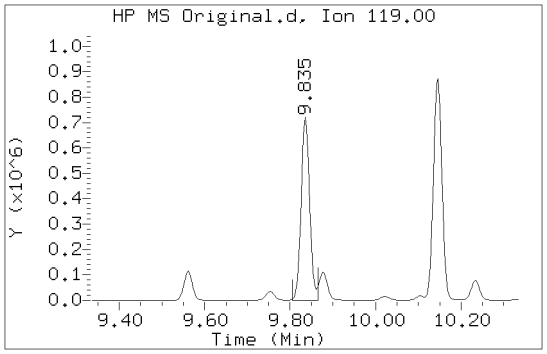
AFTER
MASS
77
AREA
2652
HEIGHT
1650
07-Jun-2024
10:36



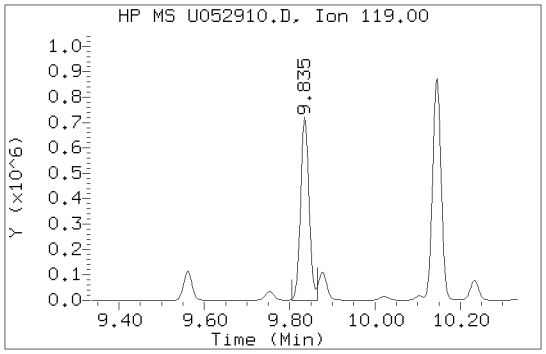
tert-Butylbenzene (98-06-6)

Reason Code:

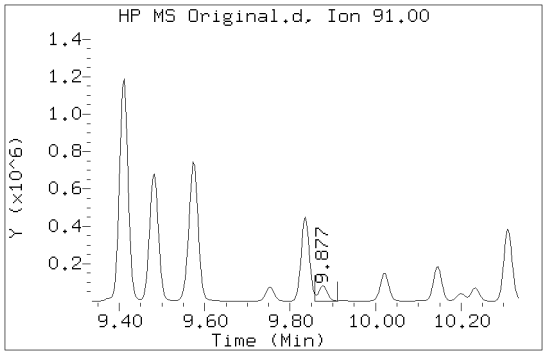
BEFORE
MASS
119
AREA
1029053
HEIGHT
721919
06-Jun-2024
17:10
s
zaid



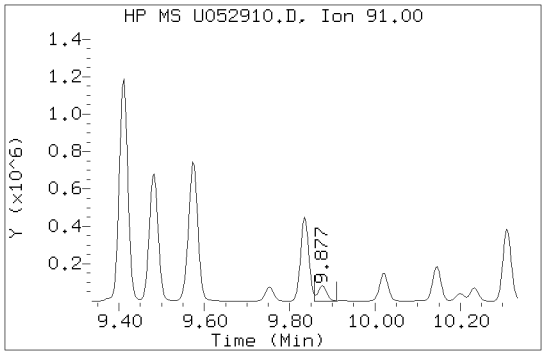
AFTER
MASS
119
AREA
1029053
HEIGHT
721919
07-Jun-2024
10:36



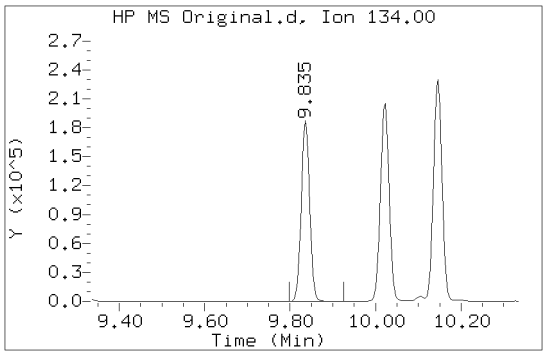
BEFORE
MASS
91
AREA
122517
HEIGHT
82317
06-Jun-2024
17:10
s
zaid



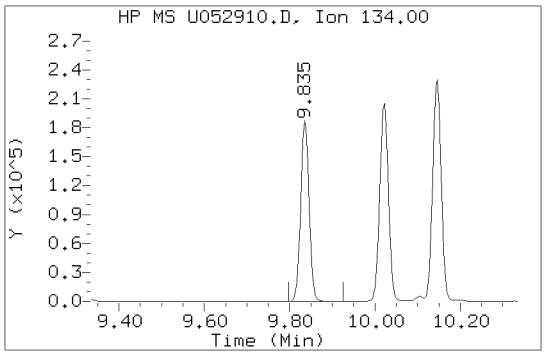
AFTER
MASS
91
AREA
122517
HEIGHT
82317
07-Jun-2024
10:36



BEFORE
MASS
134
AREA
261443
HEIGHT
187264
06-Jun-2024
17:10
s
zaid



AFTER
MASS
134
AREA
261443
HEIGHT
187264
07-Jun-2024
10:36

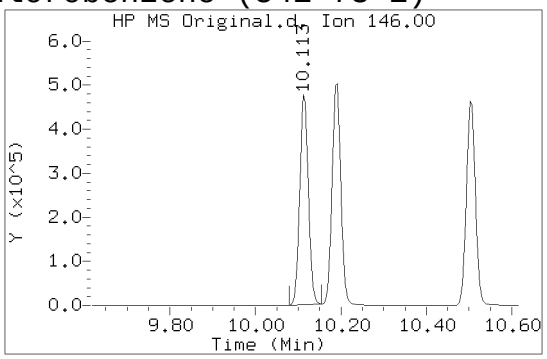


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LabSampID : VSTD150

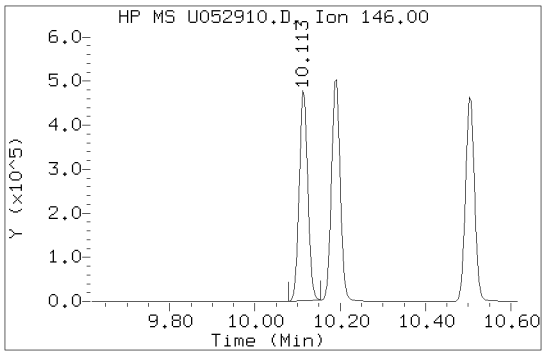
1,3-Dichlorobenzene (541-73-1)

Reason Code:

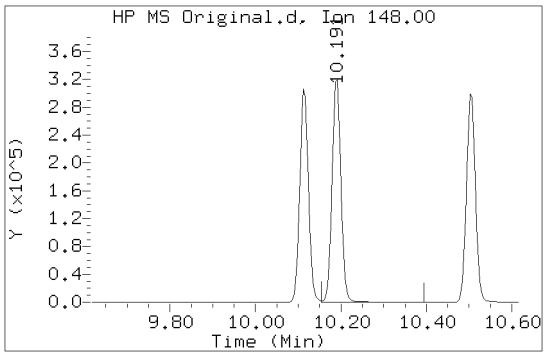
BEFORE
MASS
146
AREA
683169
HEIGHT
477469
06-Jun-2024
17:10
s
zaid



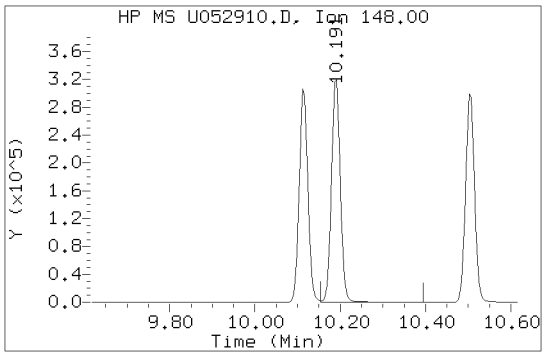
AFTER
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146
AREA
683169
HEIGHT
477469
07-Jun-2024
10:36



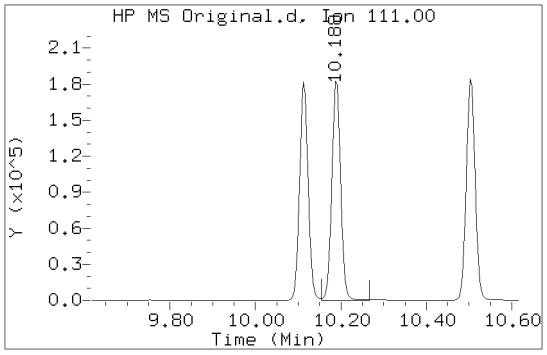
BEFORE
MASS
148
AREA
460100
HEIGHT
319245
06-Jun-2024
17:10
s
zaid



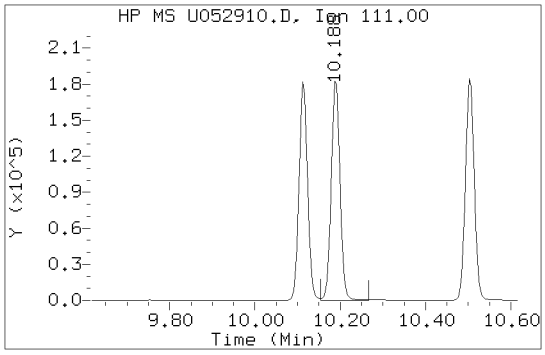
AFTER
MASS
148
AREA
460100
HEIGHT
319245
07-Jun-2024
10:36



BEFORE
MASS
111
AREA
261922
HEIGHT
182394
06-Jun-2024
17:10
s
zaid



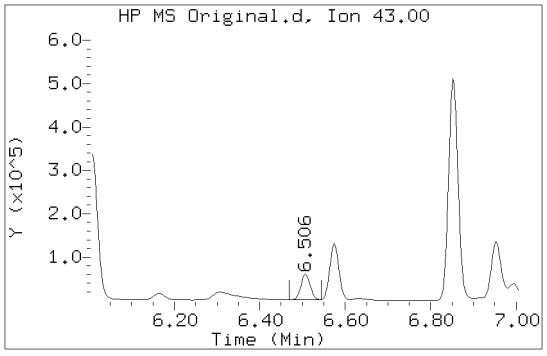
AFTER
MASS
111
AREA
261922
HEIGHT
182394
07-Jun-2024
10:36



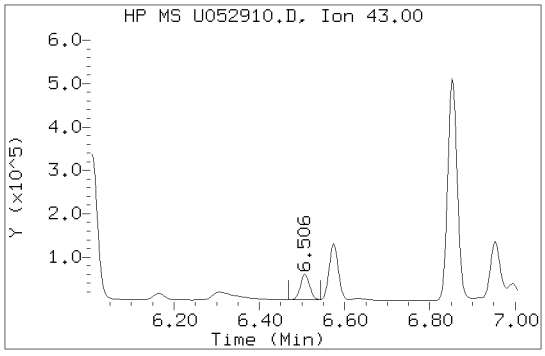
2-Nitropropane (79-46-9)

Reason Code:

BEFORE
MASS
43
AREA
89884
HEIGHT
58675
06-Jun-2024
17:10
s
zaid



AFTER
MASS
43
AREA
89884
HEIGHT
58675
07-Jun-2024
10:36



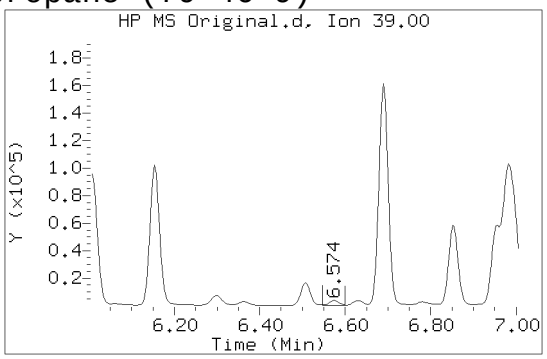
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Inj Date : 29-MAY-2024 13:31
InstruID : VOA9.i
LabSampID : VSTD150

2-Nitropropane (79-46-9)

Reason Code:

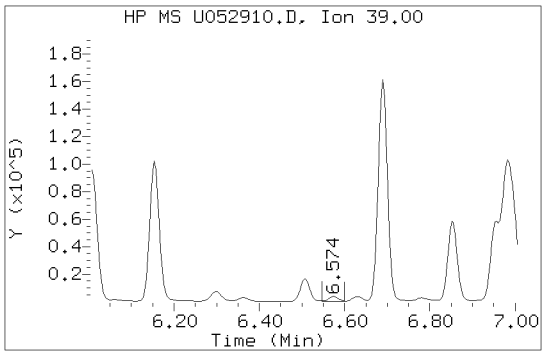
BEFORE

MASS
39
AREA
5059
HEIGHT
3450
06-Jun-2024
17:10
s
zaid



AFTER

MASS
39
AREA
5059
HEIGHT
3450
07-Jun-2024
10:36

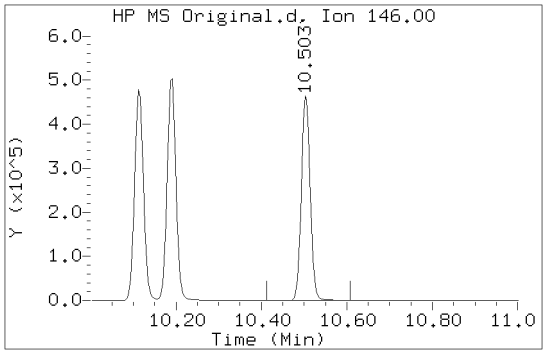


1,2-Dichlorobenzene (95-50-1)

Reason Code:

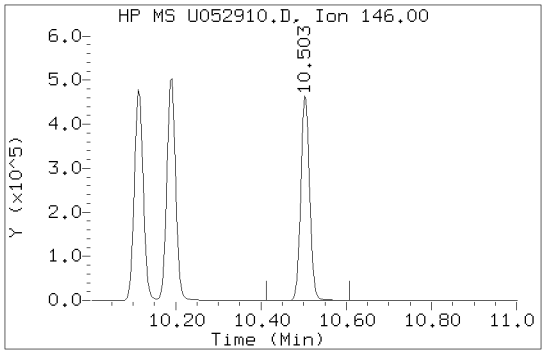
BEFORE

MASS
146
AREA
678777
HEIGHT
464251
06-Jun-2024
17:10
s
zaid



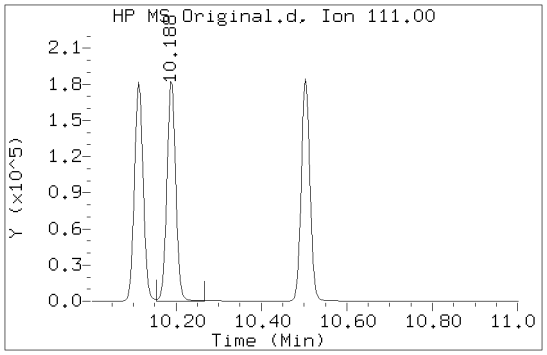
AFTER

MASS
146
AREA
678777
HEIGHT
464251
07-Jun-2024
10:36



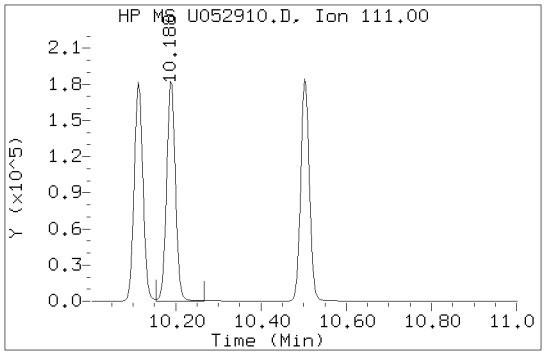
BEFORE

MASS
111
AREA
261922
HEIGHT
182394
06-Jun-2024
17:10
s
zaid



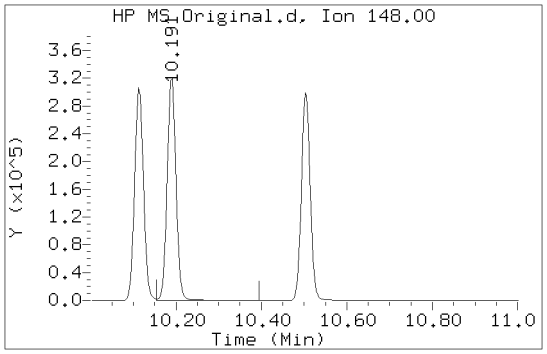
AFTER

MASS
111
AREA
261922
HEIGHT
182394
07-Jun-2024
10:36



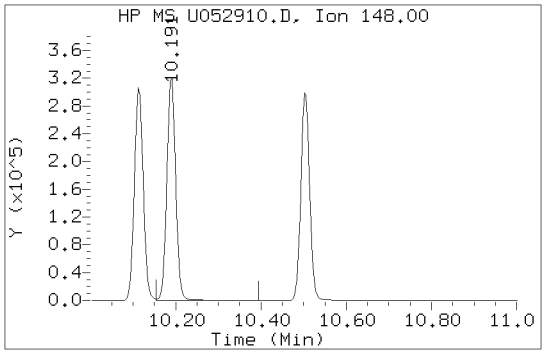
BEFORE

MASS
148
AREA
460100
HEIGHT
319245
06-Jun-2024
17:10
s
zaid



AFTER

MASS
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AREA
460100
HEIGHT
319245
07-Jun-2024
10:36

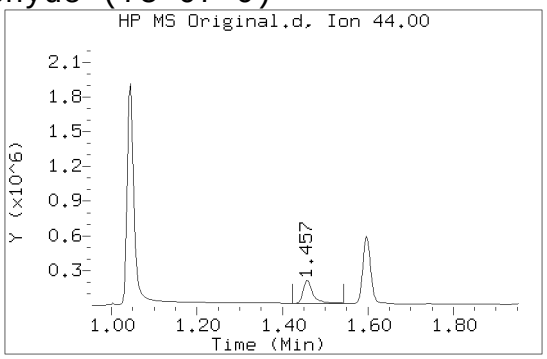


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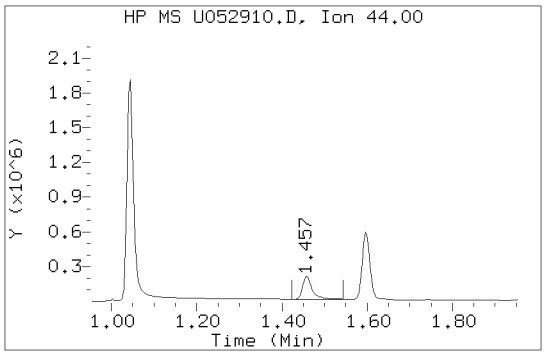
Acetaldehyde (75-07-0)

Reason Code:

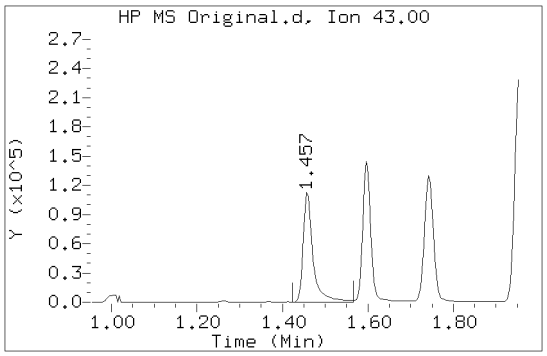
BEFORE
MASS
44
AREA
305993
HEIGHT
198849
06-Jun-2024
17:10
s
zaid



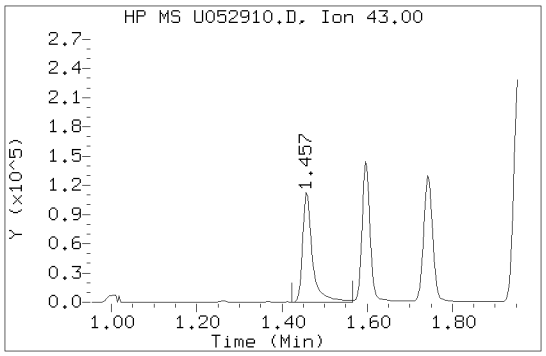
AFTER
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44
AREA
305993
HEIGHT
198849
07-Jun-2024
10:36



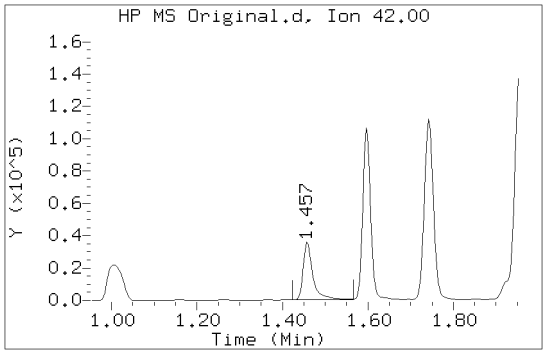
BEFORE
MASS
43
AREA
183379
HEIGHT
112880
06-Jun-2024
17:10
s
zaid



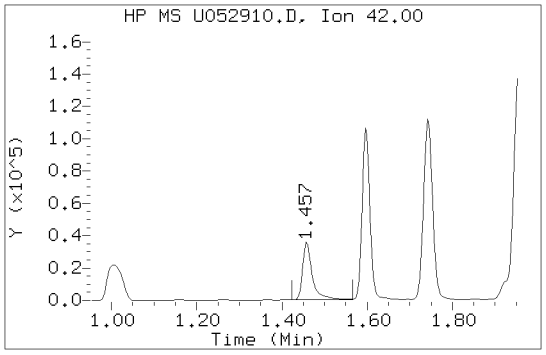
AFTER
MASS
43
AREA
183379
HEIGHT
112880
07-Jun-2024
10:36



BEFORE
MASS
42
AREA
56979
HEIGHT
35599
06-Jun-2024
17:10
s
zaid



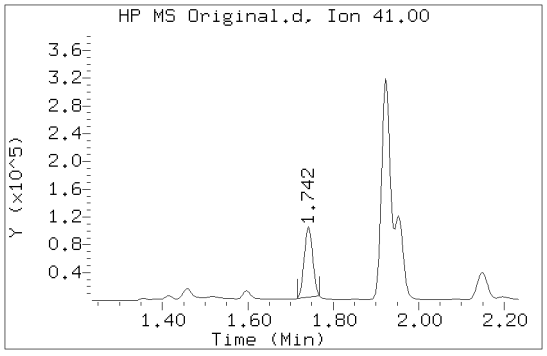
AFTER
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42
AREA
56979
HEIGHT
35599
07-Jun-2024
10:36



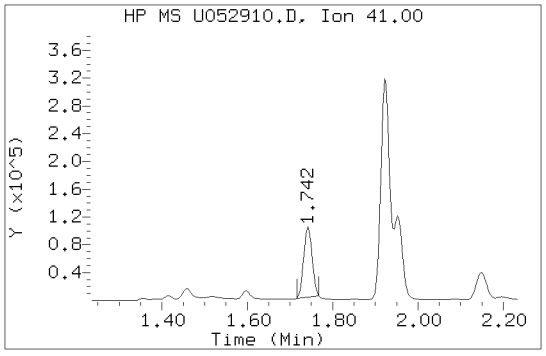
Isobutylene (115-11-7)

Reason Code:

BEFORE
MASS
41
AREA
140148
HEIGHT
101550
06-Jun-2024
17:10
s
zaid



AFTER
MASS
41
AREA
140148
HEIGHT
101550
07-Jun-2024
10:36

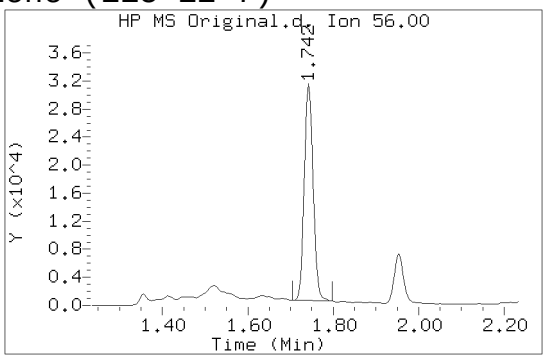


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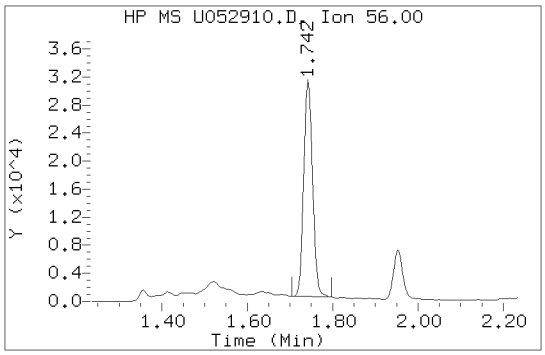
Isobutylene (115-11-7)

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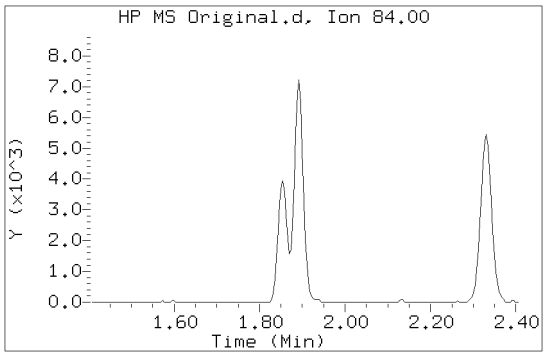
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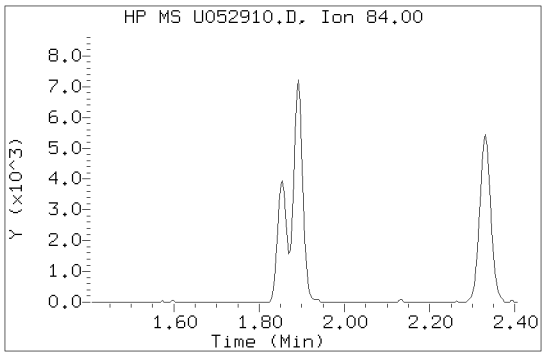
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BEFORE
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AFTER
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07-Jun-2024
10:36



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052911.D Page 1
Report Date: 07-Jun-2024 10:54

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052911.D
Lab Smp Id: VSTD200 Client Smp ID: VSTD200
Inj Date : 29-MAY-2024 13:53
Operator : FT Inst ID: VOA9.i
Smp Info : VSTD200;VSTD200;1;10
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240529.b\8260C.m
Meth Date : 07-Jun-2024 10:14 r.patel Quant Type: ISTD
Cal Date : 29-MAY-2024 13:53 Cal File: U052911.D
Als bottle: 11 Calibration Sample, Level: 10
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14

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	4.811	4.811	(1.000)	273486	50.0000	
2	Dichlorodifluoromethane	85	1.156	1.156	(0.240)	240139	200.000	235.53(AM)
3	Chloromethane	50	1.288	1.288	(0.268)	716916	200.000	198.72
4	Propionitrile	54	4.339	4.339	(0.902)	679011	2000.00	1933.72
5	Vinyl Chloride	62	1.366	1.366	(0.284)	452378	200.000	219.04(AM)
6	Bromomethane	94	1.595	1.595	(0.332)	177922	200.000	203.09(A)
7	Chloroethane	64	1.681	1.681	(0.350)	317922	200.000	199.41(M)
8	Trichlorofluoromethane	101	1.884	1.884	(0.392)	564354	200.000	230.11(A)
9	Acrolein	56	2.259	2.259	(0.469)	45520	400.000	398.16
10	Acetone	43	2.405	2.405	(0.500)	309961	400.000	391.23
11	1,1-Dichloroethene	96	2.322	2.322	(0.483)	387075	200.000	214.69(A)
12	Isobutyl Alcohol	43	5.284	5.284	(1.098)	1572359	4000.00	4015.41(A)
13	Acetonitrile	39	2.663	2.663	(0.554)	473485	2000.00	2134.30(A)
14	Allyl Chloride	41	2.667	2.667	(0.554)	1175804	200.000	199.30
16	Acrylonitrile	53	3.061	3.061	(0.636)	334027	400.000	398.44
17	Methylene Chloride	84	2.783	2.783	(0.579)	442243	200.000	199.76
18	Methyl tert-butyl ether	73	3.076	3.076	(0.639)	1108713	200.000	199.38
19	Carbon Disulfide	76	2.510	2.510	(0.522)	2224092	400.000	439.76(A)
20	trans-1,2-Dichloroethene	96	3.050	3.050	(0.634)	411268	200.000	201.73(A)
21	Vinyl Acetate	43	4.339	4.339	(0.902)	509527	400.000	422.76(A)
22	1,1-Dichloroethane	63	3.507	3.507	(0.729)	756265	200.000	193.10

23 Chloroprene	53	3.601	3.601 (0.748)	634213	200.000	220.85(A)
24 2-Butanone	43	4.260	4.260 (0.885)	492027	400.000	402.58(A)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	25 Methacrylonitrile	41	4.489	4.489	(0.933)	294600	200.000	200.43(aA)
	26 2,2-Dichloropropane	77	4.174	4.174	(0.868)	590088	200.000	229.56(A)
	27 cis-1,2-Dichloroethene	96	4.189	4.189	(0.871)	496347	200.000	197.13
	28 Chloroform	83	4.568	4.568	(0.949)	770700	200.000	197.09
	29 Bromochloromethane	128	4.463	4.463	(0.928)	234915	200.000	201.86(A)
$	30 Dibromofluoromethane	113	4.744	4.744	(0.986)	379603	200.000	199.45
	31 1,1,1-Trichloroethane	97	4.736	4.736	(0.984)	650668	200.000	237.61(A)
	32 1,1-Dichloropropene	75	4.916	4.916	(0.886)	618506	200.000	216.15(A)
	33 1,2-Dichloroethane	62	5.171	5.171	(0.932)	601098	200.000	202.61(AM)
	34 Carbon Tetrachloride	117	4.905	4.905	(0.884)	553905	200.000	247.11(AM)
$	35 1,2-Dichloroethane-d4	65	5.093	5.093	(1.058)	430320	200.000	203.40(A)
*	36 1,4-Difluorobenzene	114	5.550	5.550	(1.000)	395068	50.0000	
	37 Benzene	78	5.134	5.134	(0.925)	1809175	200.000	194.42
	38 Trichloroethene	130	5.786	5.786	(1.043)	479731	200.000	209.46(A)
	39 Bromodichloromethane	83	6.277	6.277	(1.131)	574423	200.000	229.51(A)
	40 Methyl Methacrylate	41	5.827	5.827	(1.211)	224325	200.000	198.48
	41 2-Chloroethylvinyl ether	63	6.573	6.573	(1.184)	444756	400.000	397.38
	42 1,2-Dichloropropane	63	6.007	6.007	(1.082)	481859	200.000	196.33(M)
	43 2-Nitropropane	43	6.506	6.506	(1.352)	122639	200.000	197.57(M)
	44 Dibromomethane	93	6.116	6.116	(1.102)	287456	200.000	201.69(A)
	45 4-Methyl-2-Pentanone	43	6.851	6.851	(0.837)	1077867	400.000	399.19
	46 cis-1,3-Dichloropropene	75	6.690	6.690	(1.205)	770716	200.000	199.25
*	47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	363359	50.0000	
$	48 Toluene-d8	98	6.918	6.918	(0.845)	1400146	200.000	201.45(A)
	49 Ethyl Methacrylate	69	7.289	7.289	(1.313)	685626	200.000	224.36
	50 Toluene	91	6.978	6.978	(0.853)	1863205	200.000	188.90
	51 trans-1,3-Dichloropropene	75	7.196	7.196	(1.296)	644492	200.000	199.02
	52 2-Hexanone	43	7.589	7.589	(0.927)	725984	400.000	396.79(M)
	53 1,1,2-Trichloroethane	83	7.353	7.353	(0.898)	360962	200.000	199.96
	54 1,3-Dichloropropane	76	7.499	7.499	(0.916)	785403	200.000	195.49
	55 Dibromochloromethane	129	7.690	7.690	(0.940)	481854	200.000	199.34
	56 Tetrachloroethene	164	7.454	7.454	(0.911)	377192	200.000	218.96(A)
	57 1,2-Dibromoethane	107	7.784	7.784	(0.951)	445120	200.000	205.20(A)
	58 1-Chlorohexane	55	8.196	8.196	(1.477)	389857	200.000	197.68
	59 Chlorobenzene	112	8.208	8.208	(1.003)	1204687	200.000	192.36
	60 1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	447071	200.000	223.71(A)
	61 Ethylbenzene	106	8.305	8.305	(1.015)	633308	200.000	199.00
	62 m,p-Xylenes	106	8.406	8.406	(1.027)	1591481	400.000	397.68
	63 o-Xylene	106	8.744	8.744	(1.068)	767838	200.000	201.91(A)
	64 Styrene	104	8.759	8.759	(1.070)	1296564	200.000	215.58(A)
	66 Bromoform	173	8.916	8.916	(1.089)	335082	200.000	198.89
	67 Isopropylbenzene	105	9.059	9.059	(1.107)	1919426	200.000	221.31(A)
	68 1,1,2,2-Tetrachloroethane	83	9.329	9.329	(0.917)	626510	200.000	194.34
$	69 4-Bromofluorobenzene	95	9.190	9.190	(1.123)	508465	200.000	201.51(A)
*	70 1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	193941	50.0000	
	71 1,2,3-Trichloropropane	75	9.362	9.362	(0.921)	680533	200.000	225.11(AM)
	72 trans-1,4-Dichloro-2-butene	53	9.377	9.377	(1.146)	145932	200.000	235.06(A)
	73 n-Propylbenzene	91	9.411	9.411	(0.926)	2181629	200.000	208.73(A)
	74 Bromobenzene	156	9.317	9.317	(0.916)	533475	200.000	200.04(A)
	75 1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	1562083	200.000	199.31
	76 2-Chlorotoluene	91	9.482	9.482	(0.933)	1326171	200.000	199.80
	77 4-Chlorotoluene	91	9.576	9.576	(0.942)	1529143	200.000	203.77(A)

78	tert-Butylbenzene	119	9.835	9.835 (0.967)	1330175	200.000	226.68(AM)
79	1,2,4-Trimethylbenzene	105	9.876	9.876 (0.971)	1562562	200.000	199.47

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
81	sec-Butylbenzene	105	10.022	10.022	(0.986)	1832877	200.000	230.14(A)
82	p-Isopropyltoluene	119	10.146	10.146	(0.998)	1612563	200.000	232.35(A)
83	1,3-Dichlorobenzene	146	10.116	10.116	(0.995)	912530	200.000	202.62(AM)
84	1,4-Dichlorobenzene	146	10.191	10.191	(1.002)	950730	200.000	190.62
86	Benzyl Chloride	91	10.311	10.311	(1.260)	763055	200.000	198.43
87	n-Butylbenzene	91	10.491	10.491	(1.032)	1416365	200.000	198.86
88	1,2-Dichlorobenzene	146	10.502	10.502	(1.033)	905419	200.000	194.04(M)
89	1,2-Dibromo-3-Chloropropane	155	11.165	11.165	(1.098)	101593	200.000	199.30
90	1,2,4-Trichlorobenzene	180	11.855	11.855	(1.166)	647239	200.000	220.14(A)
91	Hexachlorobutadiene	225	11.998	11.998	(1.180)	267749	200.000	226.97(A)
92	Naphthalene	128	12.065	12.065	(1.187)	1590132	200.000	199.78
93	1,2,3-Trichlorobenzene	180	12.268	12.268	(1.206)	590267	200.000	215.51(A)
146	Methyl acetate	43	2.708	2.708	(0.563)	440647	200.000	202.79(A)
138	Freon TF	101	2.326	2.326	(0.483)	345384	200.000	199.05
141	Cyclohexane	56	4.778	4.778	(0.993)	587963	200.000	198.59
142	Tetrahydrofuran	42	4.542	4.542	(0.944)	176496	400.000	393.91
147	Methylcyclohexane	55	5.944	5.944	(1.071)	1129810	200.000	198.98(A)
135	1,4-Dioxane	88	6.168	6.168	(1.282)	124297	4000.00	3960.62
132	n-Butanol	56	5.827	5.827	(1.211)	344749	4000.00	4679.39(A)
136	n-Hexane	57	3.331	3.331	(0.692)	415342	200.000	198.20
139	Diethyl ether	59	2.139	2.139	(0.445)	323193	200.000	199.31
148	Tert-butyl alcohol	59	2.975	2.975	(0.618)	891426	4000.00	3823.51
149	Isopropyl alcohol	45	2.570	2.570	(0.534)	696757	4000.00	3786.17
152	Amyl alcohol	42	7.398	7.398	(0.904)	393449	4000.00	3968.16
156	Diisopropyl ether	45	3.619	3.619	(0.752)	1369453	200.000	196.11
162	Butyl acrylate	55	8.733	8.733	(1.067)	999143	200.000	198.36
187	n-Amyl acetate	43	8.931	8.931	(1.091)	900081	200.000	228.13(A)
164	Dicyclopentadiene	66	10.198	10.198	(1.003)	2038579	200.000	204.94(A)
166	1,2,3-Trimethylbenzene	105	10.232	10.232	(1.006)	1391506	200.000	203.49(A)
167	Ethanol	45	2.086	2.086	(0.434)	131668	4000.00	3782.12
172	tert-Butyl formate	59	5.250	5.250	(1.091)	998672	400.000	462.28(A)
173	3,3-Dimethyl-1-butanol	57	7.784	7.784	(0.951)	1119804	4000.00	4427.71(A)
174	tert-Amyl methyl ether	73	5.284	5.284	(1.098)	1335807	200.000	208.74(A)
175	tert-Butyl ethyl ether	59	4.047	4.047	(0.841)	1281509	200.000	204.87(A)
176	tert-Amyl alcohol	59	5.250	5.250	(1.091)	998672	4000.00	4569.65(A)
151	4-Methyl-2-pentanol	45	7.222	7.222	(1.301)	3204773	4000.00	3966.68
140	1,3-Butadiene	54	1.396	1.396	(0.290)	226619	200.000	223.95(A)
182	Epichlorohydrin	57	6.630	6.630	(1.195)	144892	800.000	739.62
M 94	1,2-Dichloroethylene (total)	96				907615	400.000	(a)
145	alpha-Methylstyrene	118	9.752	9.752	(0.959)	677516	200.000	199.43
130	Ethyl Acetate	43	4.339	4.339	(0.902)	509527	200.000	202.27(A)
131	Methyl Acrylate	55	4.365	4.365	(0.907)	566657	200.000	198.87
189	n-Butyl acetate	43	7.702	7.702	(0.941)	866187	200.000	227.07(A)
134	Cyclohexanone	55	9.152	9.152	(0.900)	459191	4000.00	3937.53
185	Isoprene	39	2.146	2.146	(0.446)	98636	200.000	199.04
188	Isopropyl acetate	43	5.284	5.284	(0.952)	1268855	200.000	193.56(M)
150	Allyl alcohol	57	3.331	3.331	(0.692)	415342	4000.00	3964.14
194	Acetaldehyde	44	1.453	1.453	(0.302)	417509	800.000	798.73(M)
195	Methyl Amyl Ketone	43	8.868	8.868	(1.083)	1025936	200.000	231.77
200	Dimethyl Disulfide	94	6.746	6.746	(0.824)	618005	200.000	196.44
202	Isobutylene	41	1.734	1.734	(0.360)	201782	200.000	200.66(AM)
133	Ethyl Acrylate	55	5.944	5.944	(1.235)	1129810	200.000	199.19

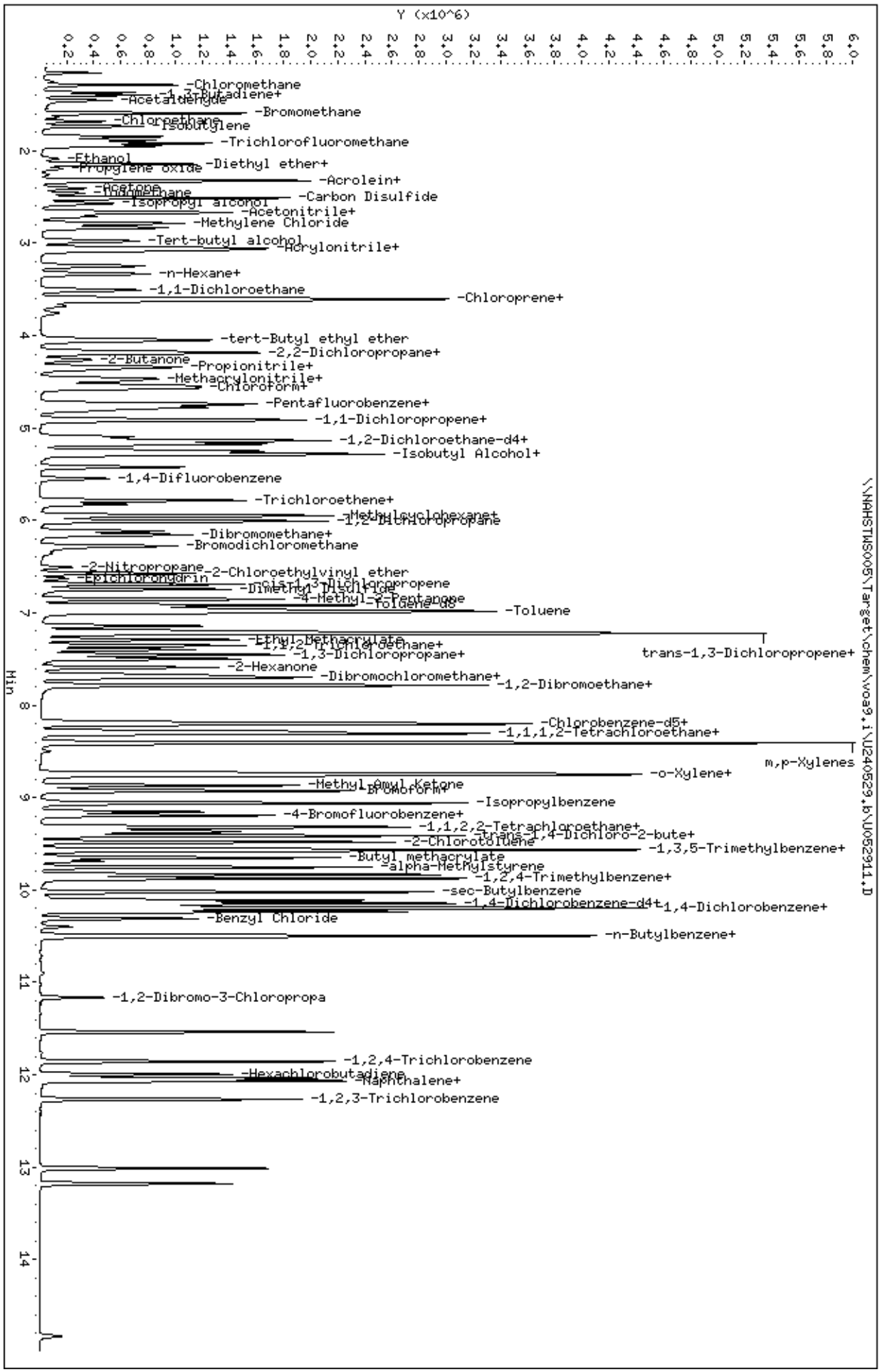
163 Butyl methacrylate	41	9.647	9.647 (0.949)	536821	200.000	239.21(A)
159 Propylene oxide	43	2.191	2.191 (0.455)	68450	400.000	398.51(A)

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052911.D Page 4
Report Date: 07-Jun-2024 10:54

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
203 2-Ethylhexyl Acrylate	55	12.039	12.039	(1.184)	626320	200.000	183.58

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.



Data File: \\NAHSTWS005\Target\chem\voa9,i\U240529,b\U052911,D
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Client ID: VSTD200
Sample Info: VSTD200;VSTD200;1;10
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Column phase: DB624

Instrument: VOA9,i
Operator: FT
Column diameter: 0.18

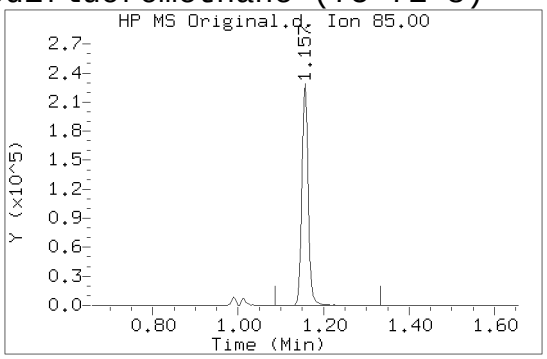
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Inj Date : 29-MAY-2024 13:53
InstruID : VOA9.i
LabSampID : VSTD200

Dichlorodifluoromethane (75-71-8)

Reason Code:

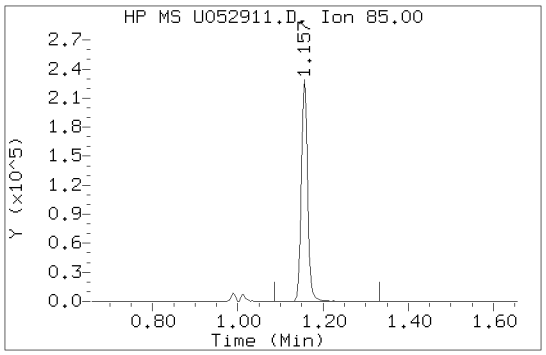
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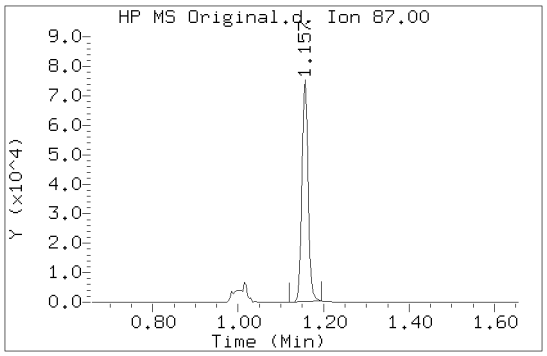
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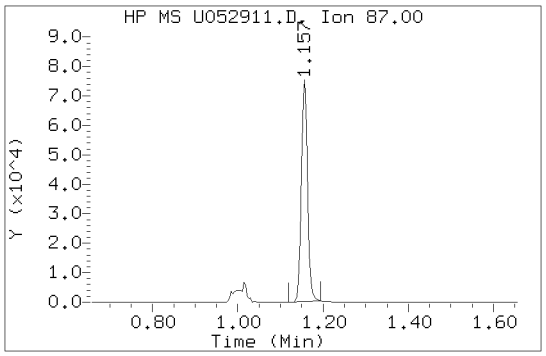
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AFTER

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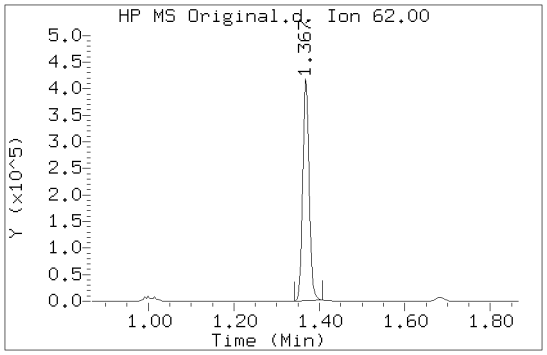


Vinyl Chloride (75-01-4)

Reason Code:

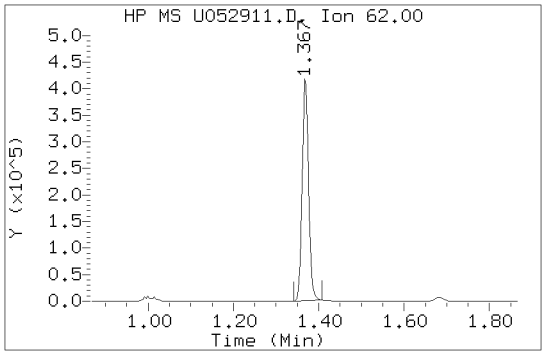
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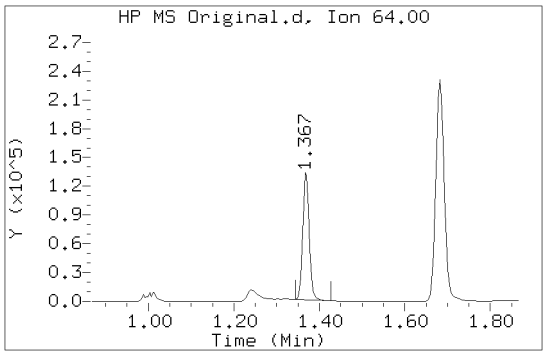
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07-Jun-2024
10:36



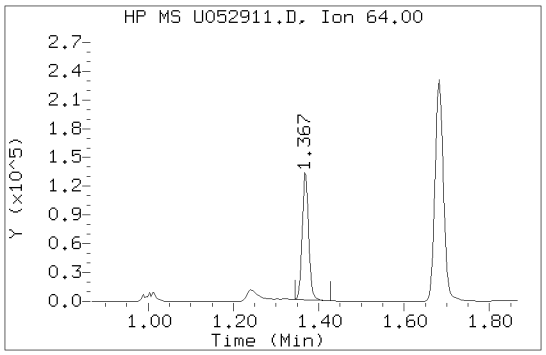
BEFORE

MASS
64
AREA
143784
HEIGHT
132455
06-Jun-2024
17:16
s
zaid



AFTER

MASS
64
AREA
143784
HEIGHT
132455
07-Jun-2024
10:36



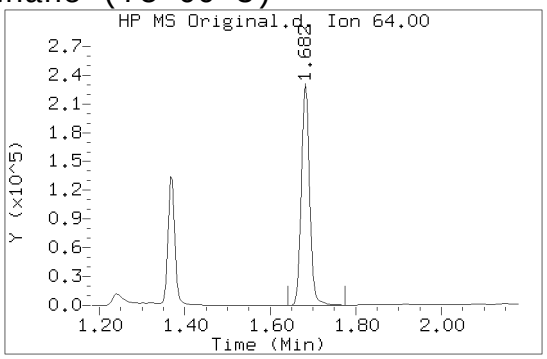
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Inj Date : 29-MAY-2024 13:53
InstruID : VOA9.i
LabSampID : VSTD200

Chloroethane (75-00-3)

Reason Code:

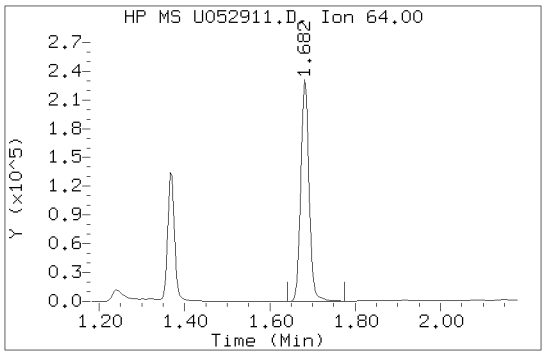
BEFORE

MASS
64
AREA
317922
HEIGHT
230961
06-Jun-2024
17:16
s
zaid



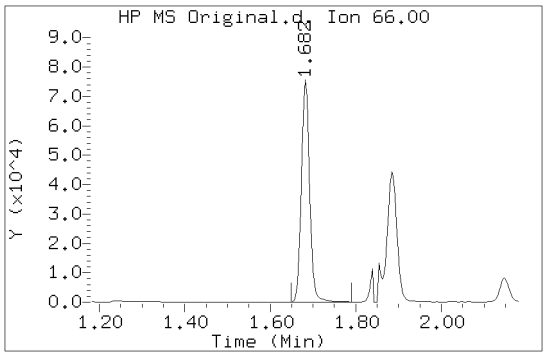
AFTER

MASS
64
AREA
317922
HEIGHT
230961
07-Jun-2024
10:36



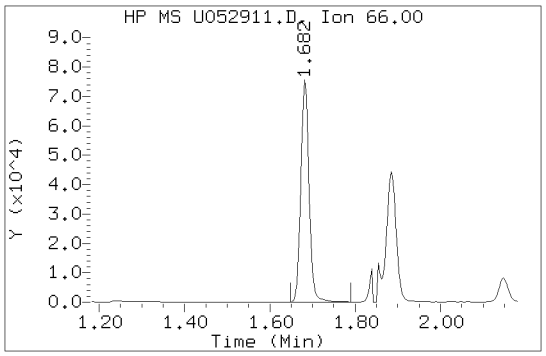
BEFORE

MASS
66
AREA
103471
HEIGHT
75552
06-Jun-2024
17:16
s
zaid



AFTER

MASS
66
AREA
103471
HEIGHT
75552
07-Jun-2024
10:36

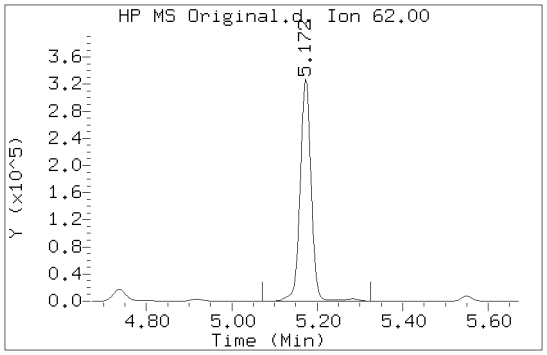


1,2-Dichloroethane (107-06-2)

Reason Code:

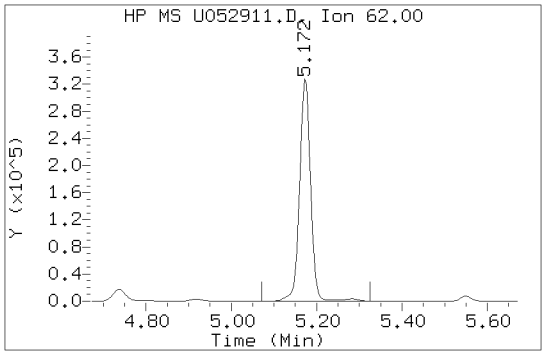
BEFORE

MASS
62
AREA
601098
HEIGHT
327639
06-Jun-2024
17:16
s
zaid



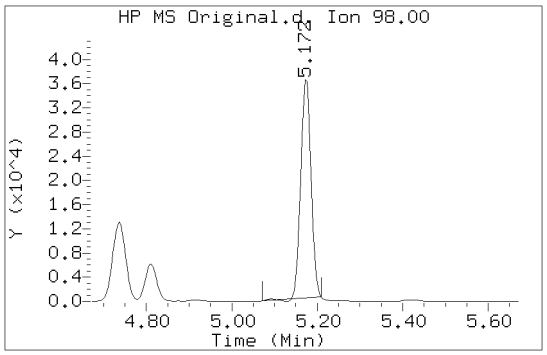
AFTER

MASS
62
AREA
601098
HEIGHT
327639
07-Jun-2024
10:36



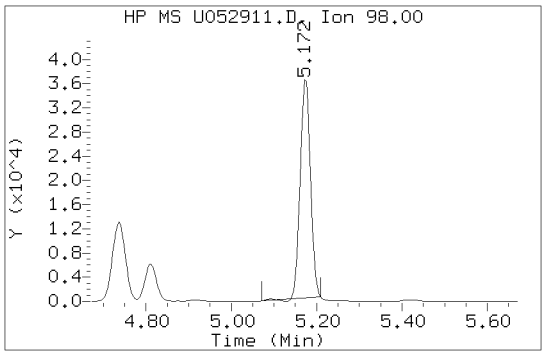
BEFORE

MASS
98
AREA
61706
HEIGHT
36063
06-Jun-2024
17:16
s
zaid



AFTER

MASS
98
AREA
61706
HEIGHT
36063
07-Jun-2024
10:36

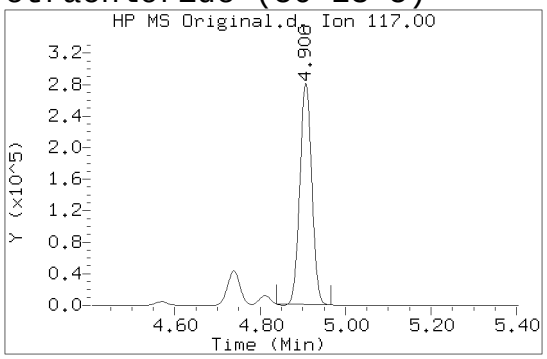


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Inj Date : 29-MAY-2024 13:53
InstruID : VOA9.i
LabSampID : VSTD200

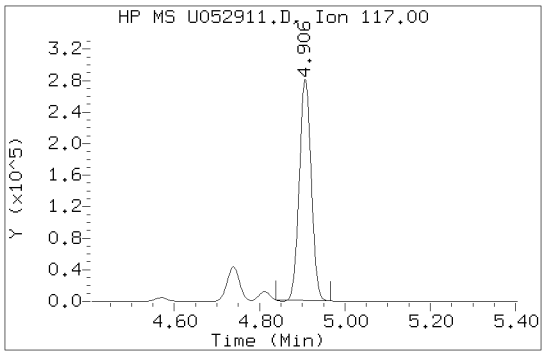
Carbon Tetrachloride (56-23-5)

Reason Code:

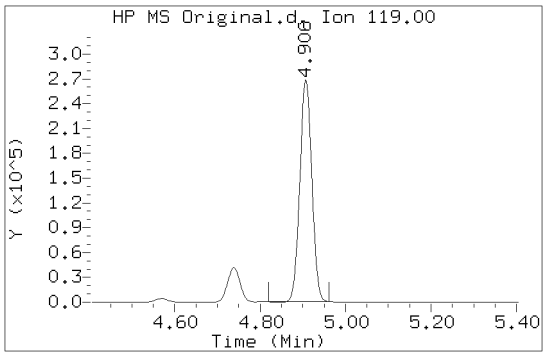
BEFORE
MASS
117
AREA
553905
HEIGHT
280040
06-Jun-2024
17:16
s
zaid



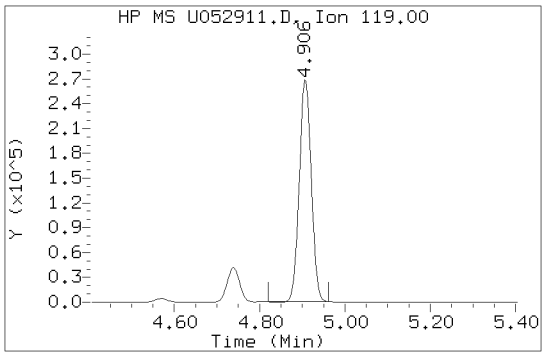
AFTER
MASS
117
AREA
553905
HEIGHT
280040
07-Jun-2024
10:36



BEFORE
MASS
119
AREA
532771
HEIGHT
268210
06-Jun-2024
17:16
s
zaid



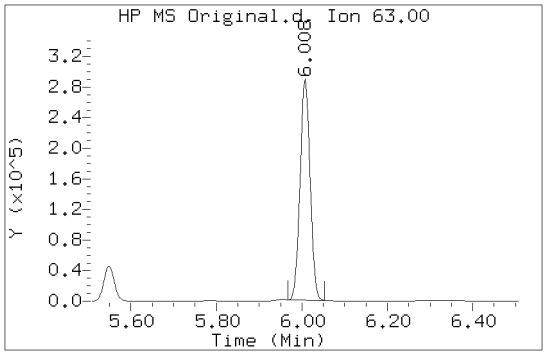
AFTER
MASS
119
AREA
532771
HEIGHT
268210
07-Jun-2024
10:36



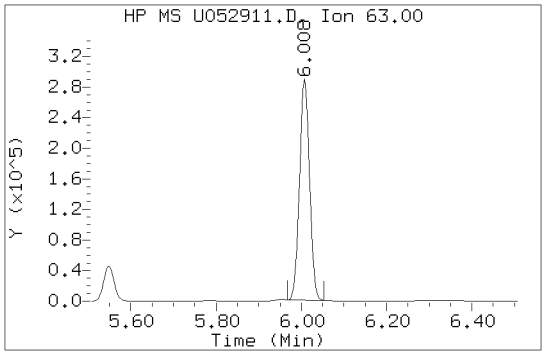
1,2-Dichloropropane (78-87-5)

Reason Code:

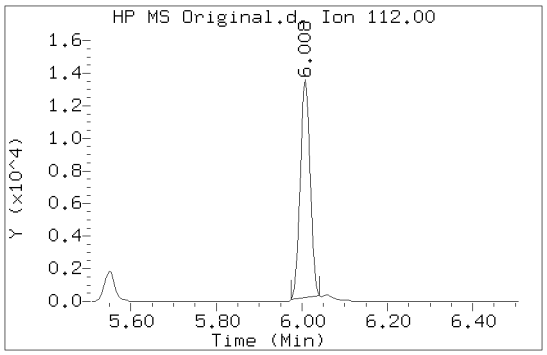
BEFORE
MASS
63
AREA
481859
HEIGHT
289444
06-Jun-2024
17:16
s
zaid



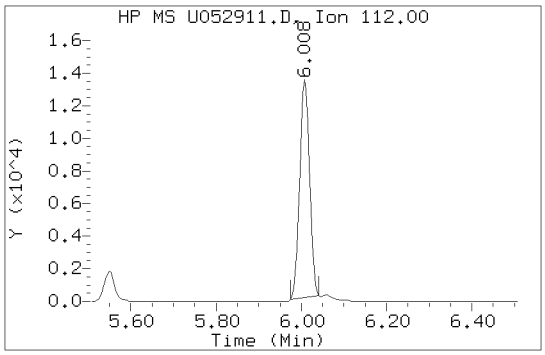
AFTER
MASS
63
AREA
481859
HEIGHT
289444
07-Jun-2024
10:36



BEFORE
MASS
112
AREA
21917
HEIGHT
13367
06-Jun-2024
17:16
s
zaid



AFTER
MASS
112
AREA
21917
HEIGHT
13367
07-Jun-2024
10:36

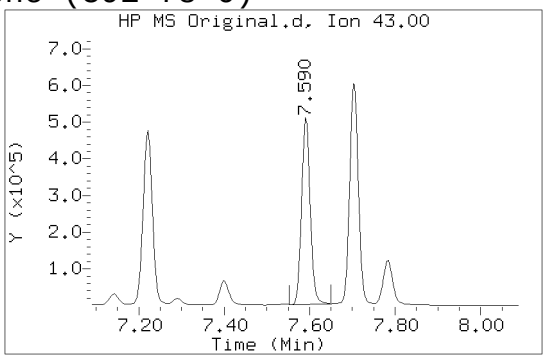


Data File : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052911.D
Inj Date : 29-MAY-2024 13:53
InstruID : VOA9.i
LabSampID : VSTD200

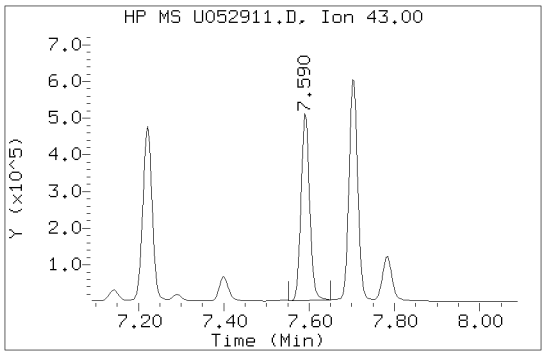
2-Hexanone (591-78-6)

Reason Code:

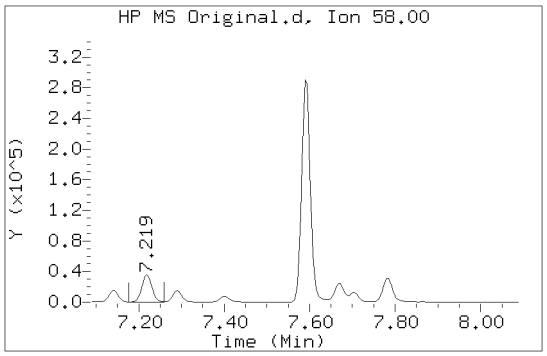
BEFORE
MASS
43
AREA
725984
HEIGHT
508163
06-Jun-2024
17:16
s
zaid



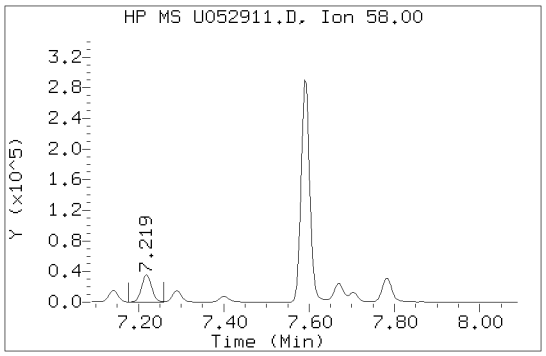
AFTER
MASS
43
AREA
725984
HEIGHT
508163
07-Jun-2024
10:36



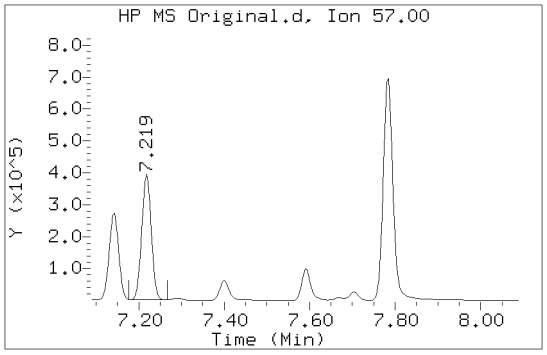
BEFORE
MASS
58
AREA
59568
HEIGHT
36001
06-Jun-2024
17:16
s
zaid



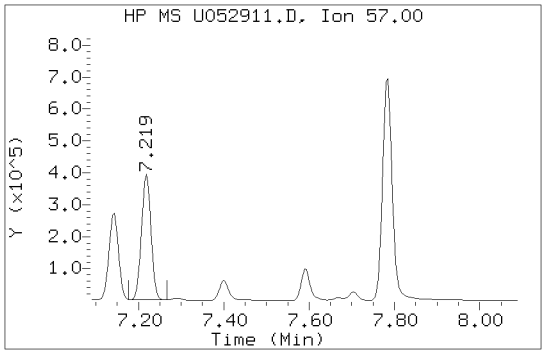
AFTER
MASS
58
AREA
59568
HEIGHT
36001
07-Jun-2024
10:36



BEFORE
MASS
57
AREA
607009
HEIGHT
393748
06-Jun-2024
17:16
s
zaid



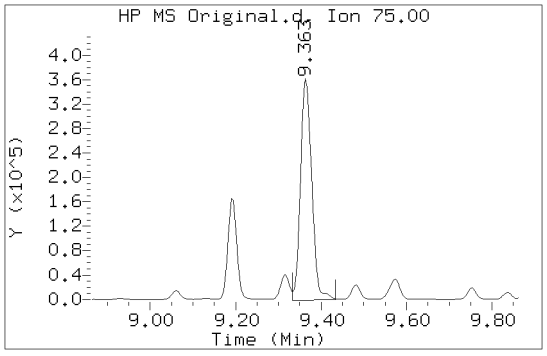
AFTER
MASS
57
AREA
607009
HEIGHT
393748
07-Jun-2024
10:36



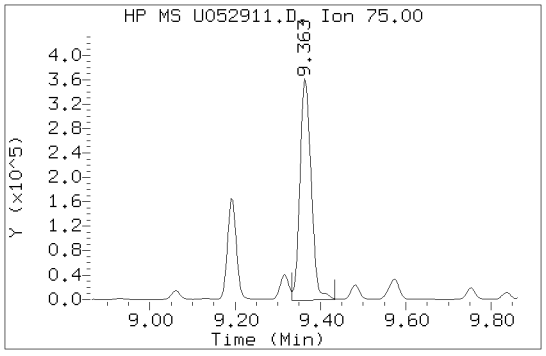
1,2,3-Trichloropropane (96-18-4)

Reason Code:

BEFORE
MASS
75
AREA
680533
HEIGHT
362857
06-Jun-2024
17:16
s
zaid



AFTER
MASS
75
AREA
680533
HEIGHT
362857
07-Jun-2024
10:36



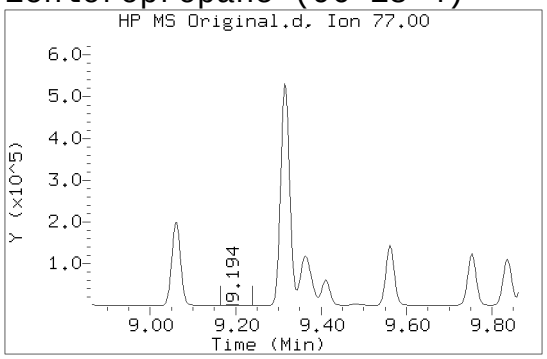
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052911.D
Inj Date : 29-MAY-2024 13:53
InstruID : VOA9.i
LabSampID : VSTD200

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

Reason Code:

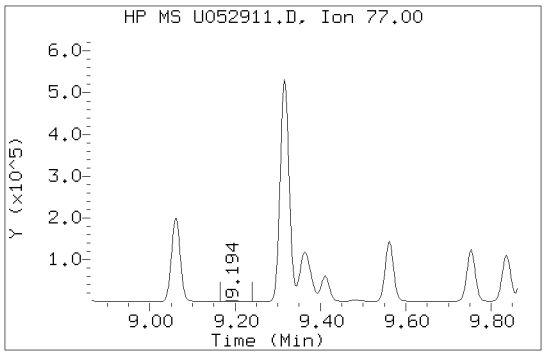
BEFORE

MASS
77
AREA
3463
HEIGHT
2051
06-Jun-2024
17:16
s
zaid



AFTER

MASS
77
AREA
3463
HEIGHT
2051
07-Jun-2024
10:36

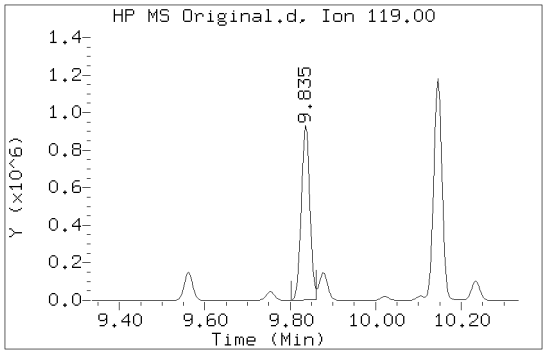


tert-Butylbenzene (98-06-6)

Reason Code:

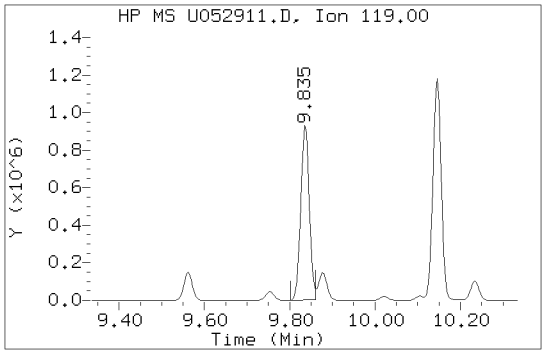
BEFORE

MASS
119
AREA
1330175
HEIGHT
930582
06-Jun-2024
17:16
s
zaid



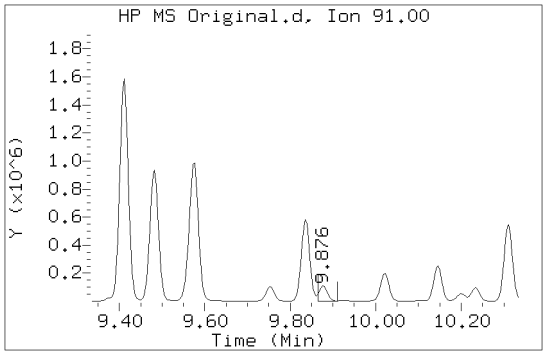
AFTER

MASS
119
AREA
1330175
HEIGHT
930582
07-Jun-2024
10:36



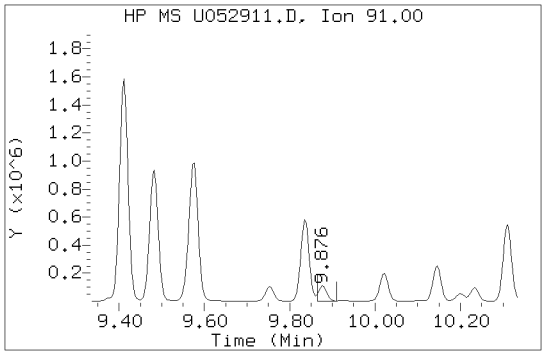
BEFORE

MASS
91
AREA
142300
HEIGHT
108711
06-Jun-2024
17:16
s
zaid



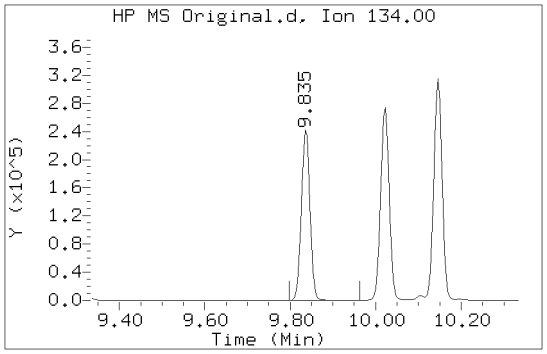
AFTER

MASS
91
AREA
142300
HEIGHT
108711
07-Jun-2024
10:36



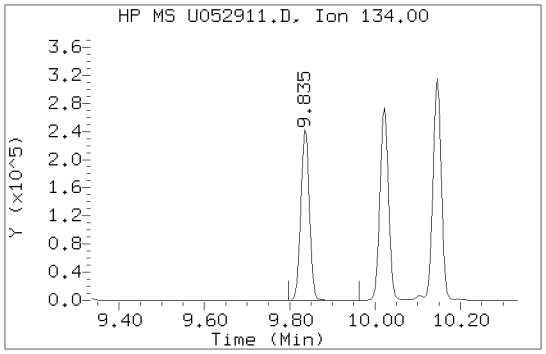
BEFORE

MASS
134
AREA
347070
HEIGHT
242376
06-Jun-2024
17:16
s
zaid



AFTER

MASS
134
AREA
347070
HEIGHT
242376
07-Jun-2024
10:36

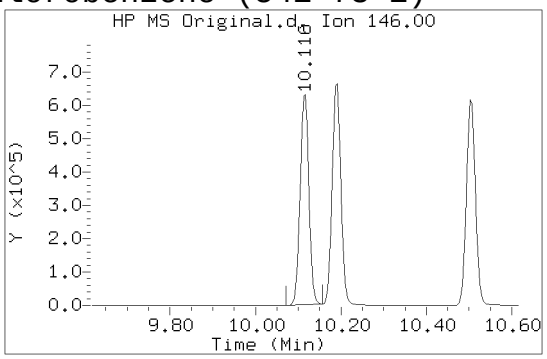


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InstruID : VOA9.i
LabSampID : VSTD200

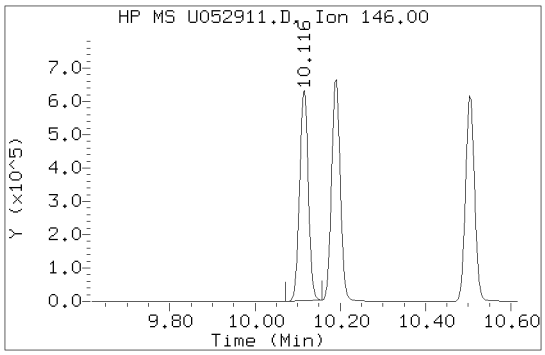
1,3-Dichlorobenzene (541-73-1)

Reason Code:

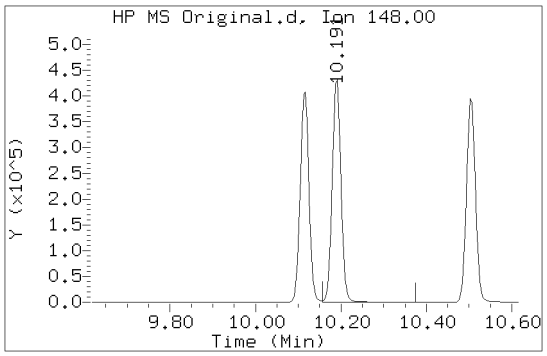
BEFORE
MASS
146
AREA
912530
HEIGHT
630765
06-Jun-2024
17:16
s
zaid



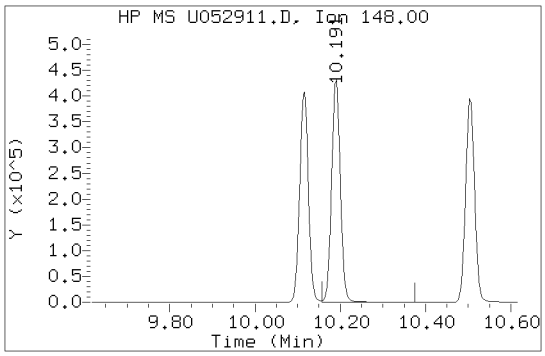
AFTER
MASS
146
AREA
912530
HEIGHT
630765
07-Jun-2024
10:36



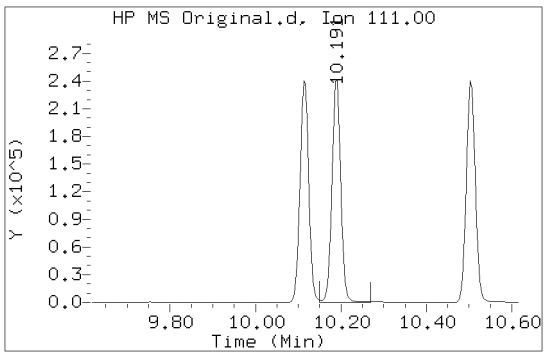
BEFORE
MASS
148
AREA
613080
HEIGHT
431210
06-Jun-2024
17:16
s
zaid



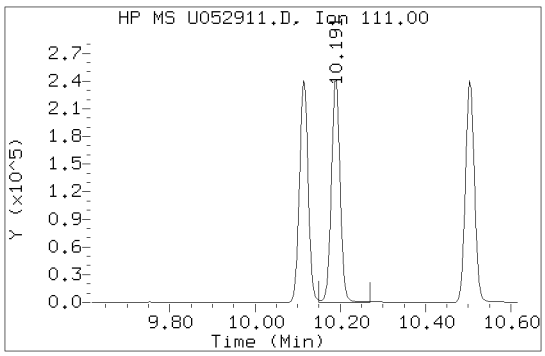
AFTER
MASS
148
AREA
613080
HEIGHT
431210
07-Jun-2024
10:36



BEFORE
MASS
111
AREA
343411
HEIGHT
240337
06-Jun-2024
17:16
s
zaid



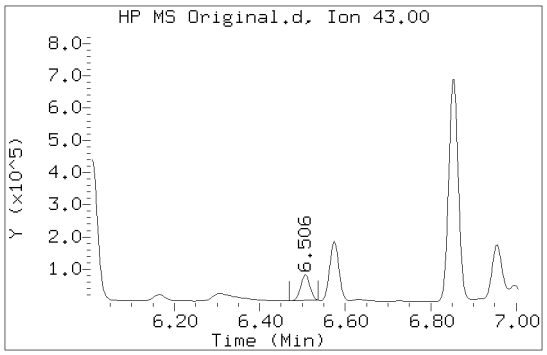
AFTER
MASS
111
AREA
343411
HEIGHT
240337
07-Jun-2024
10:36



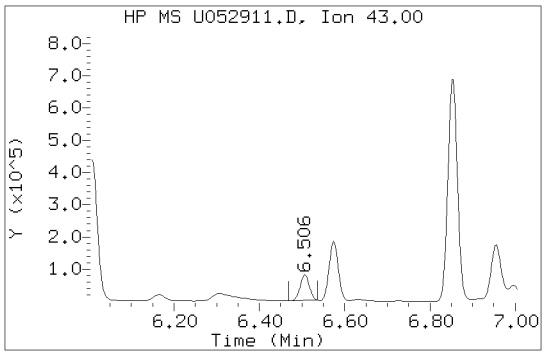
2-Nitropropane (79-46-9)

Reason Code:

BEFORE
MASS
43
AREA
122639
HEIGHT
80740
06-Jun-2024
17:16
s
zaid



AFTER
MASS
43
AREA
122639
HEIGHT
80740
07-Jun-2024
10:36



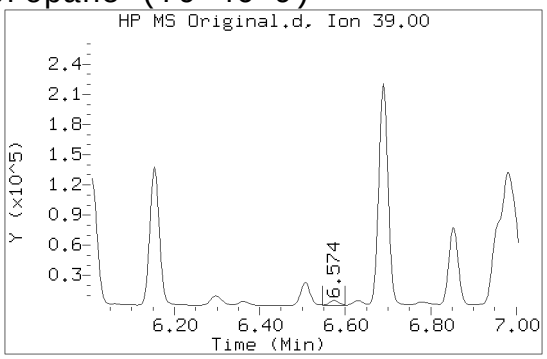
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052911.D
Inj Date : 29-MAY-2024 13:53
InstruID : VOA9.i
LabSampID : VSTD200

2-Nitropropane (79-46-9)

Reason Code:

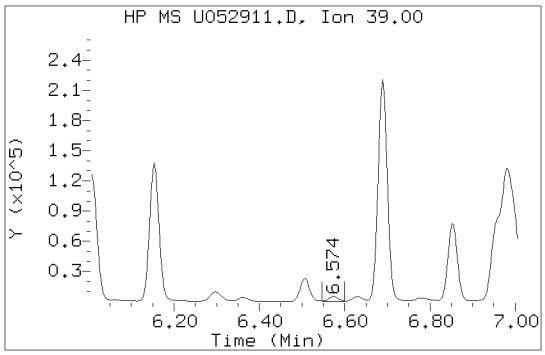
BEFORE

MASS
39
AREA
6637
HEIGHT
4713
06-Jun-2024
17:16
s
zaid



AFTER

MASS
39
AREA
6637
HEIGHT
4713
07-Jun-2024
10:36

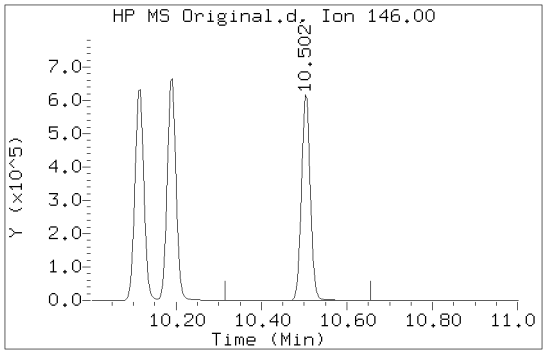


1,2-Dichlorobenzene (95-50-1)

Reason Code:

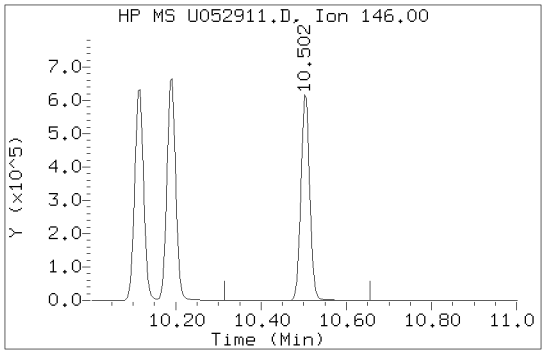
BEFORE

MASS
146
AREA
905419
HEIGHT
616831
06-Jun-2024
17:16
s
zaid



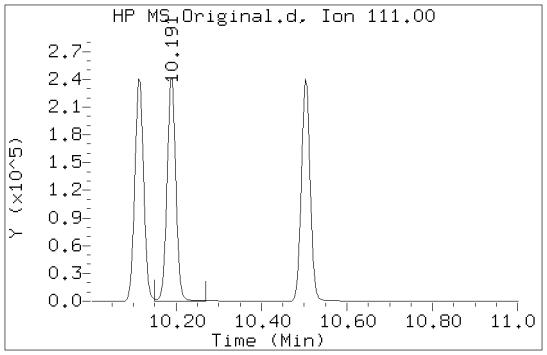
AFTER

MASS
146
AREA
905419
HEIGHT
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07-Jun-2024
10:36



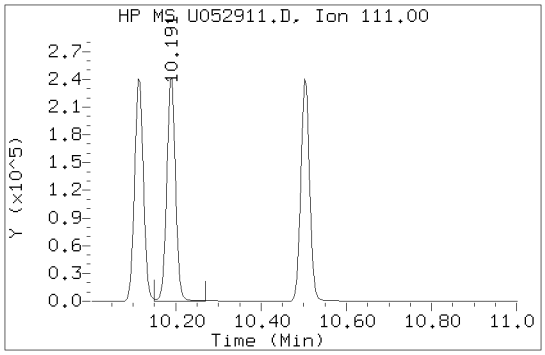
BEFORE

MASS
111
AREA
343411
HEIGHT
240337
06-Jun-2024
17:16
s
zaid



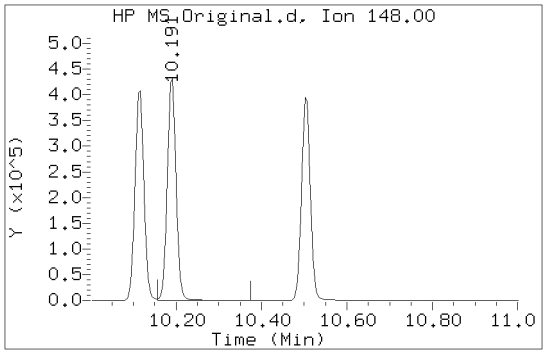
AFTER

MASS
111
AREA
343411
HEIGHT
240337
07-Jun-2024
10:36



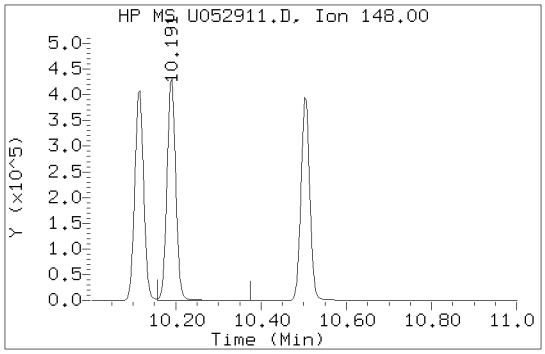
BEFORE

MASS
148
AREA
613080
HEIGHT
431210
06-Jun-2024
17:16
s
zaid



AFTER

MASS
148
AREA
613080
HEIGHT
431210
07-Jun-2024
10:36

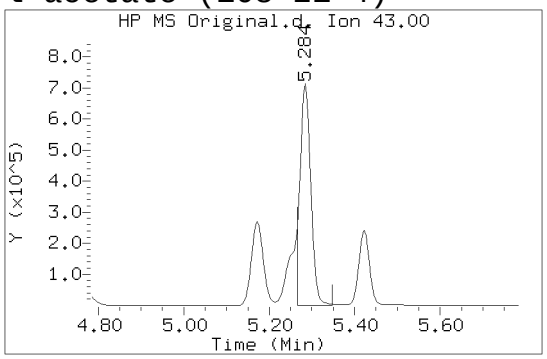


Data File : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052911.D
Inj Date : 29-MAY-2024 13:53
InstruID : VOA9.i
LabSampID : VSTD200

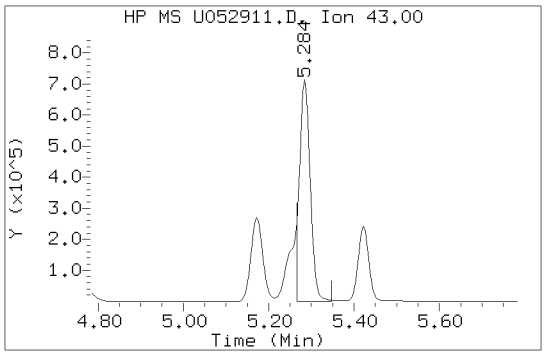
Isopropyl acetate (108-21-4)

Reason Code:

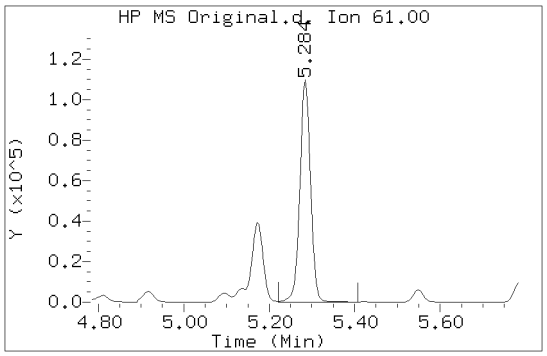
BEFORE
MASS
43
AREA
1268855
HEIGHT
713046
06-Jun-2024
17:16
s
zaid



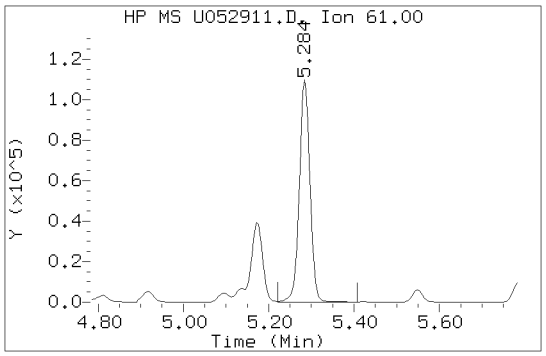
AFTER
MASS
43
AREA
1268855
HEIGHT
713046
07-Jun-2024
10:36



BEFORE
MASS
61
AREA
193741
HEIGHT
109671
06-Jun-2024
17:16
s
zaid



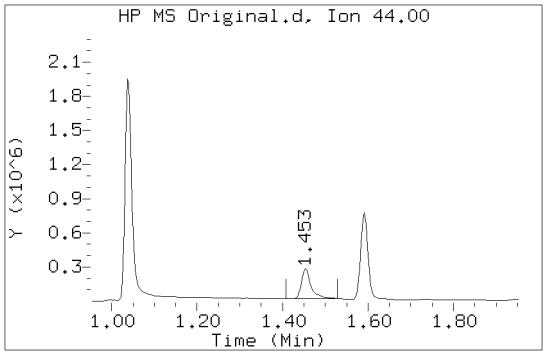
AFTER
MASS
61
AREA
193741
HEIGHT
109671
07-Jun-2024
10:36



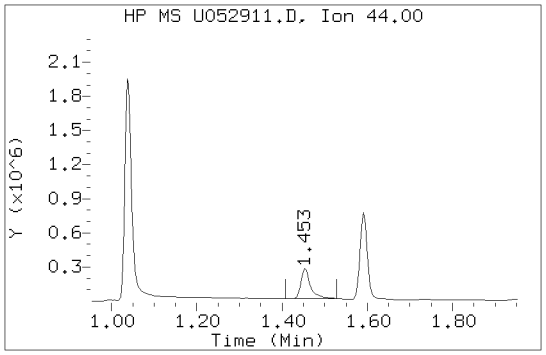
Acetaldehyde (75-07-0)

Reason Code:

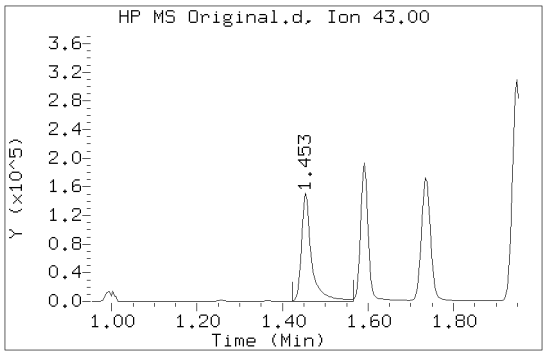
BEFORE
MASS
44
AREA
417509
HEIGHT
267534
06-Jun-2024
17:16
s
zaid



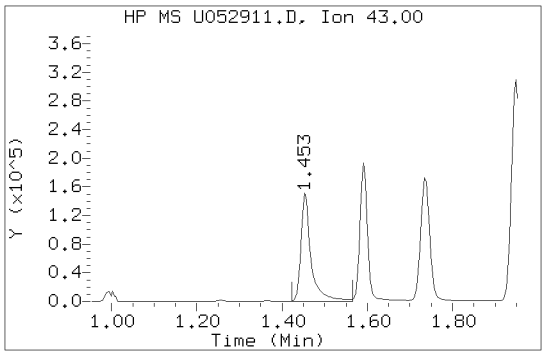
AFTER
MASS
44
AREA
417509
HEIGHT
267534
07-Jun-2024
10:36



BEFORE
MASS
43
AREA
253392
HEIGHT
151424
06-Jun-2024
17:16
s
zaid



AFTER
MASS
43
AREA
253392
HEIGHT
151424
07-Jun-2024
10:36



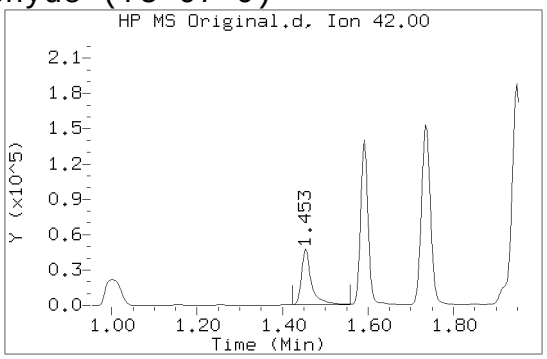
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052911.D
Inj Date : 29-MAY-2024 13:53
InstruID : VOA9.i
LabSampID : VSTD200

Acetaldehyde (75-07-0)

Reason Code:

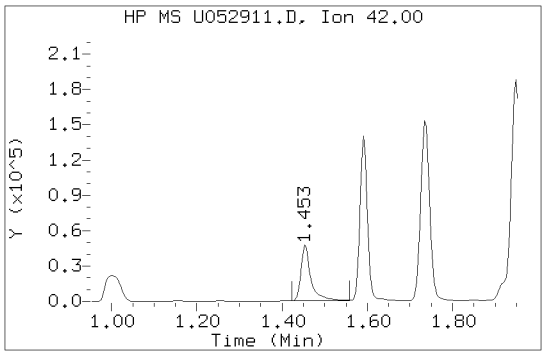
BEFORE

MASS
42
AREA
78584
HEIGHT
47416
06-Jun-2024
17:16
s
zaid



AFTER

MASS
42
AREA
78584
HEIGHT
47416
07-Jun-2024
10:36

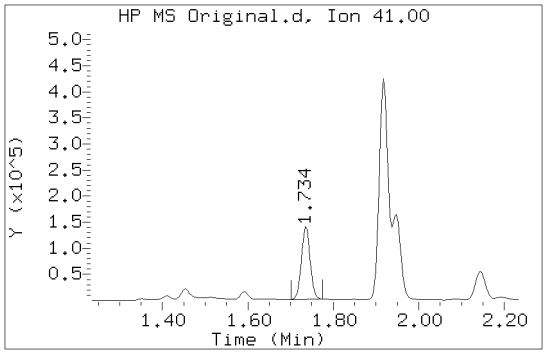


Isobutylene (115-11-7)

Reason Code:

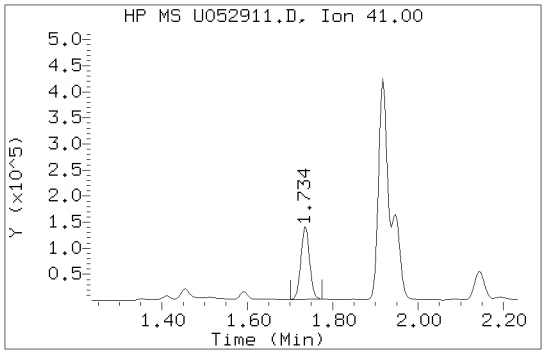
BEFORE

MASS
41
AREA
201782
HEIGHT
138808
06-Jun-2024
17:16
s
zaid



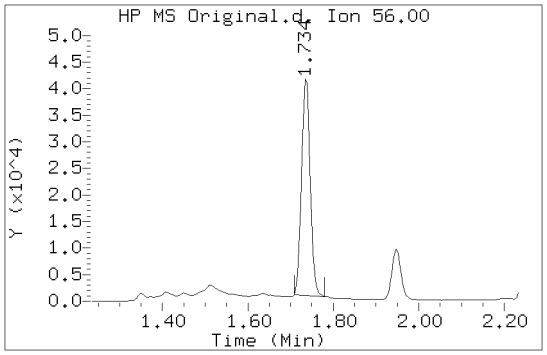
AFTER

MASS
41
AREA
201782
HEIGHT
138808
07-Jun-2024
10:36



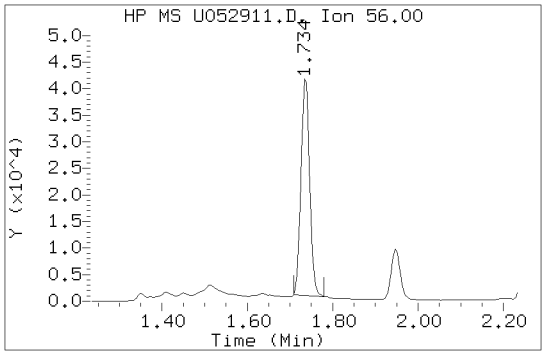
BEFORE

MASS
56
AREA
58944
HEIGHT
40729
06-Jun-2024
17:16
s
zaid



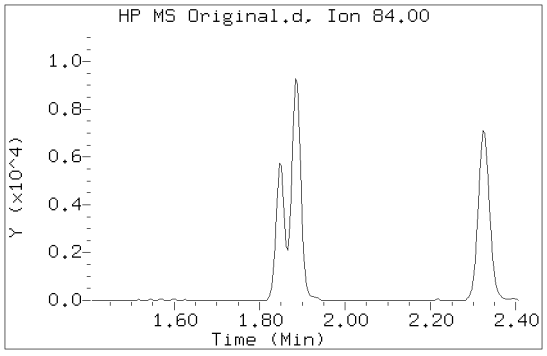
AFTER

MASS
56
AREA
58944
HEIGHT
40729
07-Jun-2024
10:36



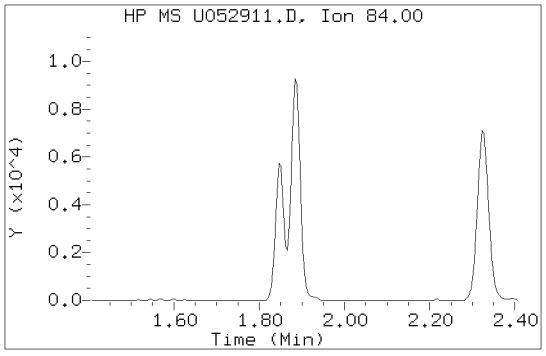
BEFORE

MASS
84
AREA
0
HEIGHT
0
06-Jun-2024
17:16
s
zaid



AFTER

MASS
84
AREA
0
HEIGHT
0
07-Jun-2024
10:36



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052913.D Page 1
Report Date: 07-Jun-2024 10:54

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052913.D
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 29-MAY-2024 14:36
Operator : FT Inst ID: VOA9.i
Smp Info : BFB;BFB;3;;BFB
Misc Info : V9;WATER;0;1;
Comment :
Method : \\nahstws005\Target\chem\voa9.i\U240529.b\bfb.m
Meth Date : 27-Jan-2023 08:08 apoluri Quant Type: ISTD
Cal Date : 30-MAR-2018 18:09 Cal File: U033003.d
Als bottle: 13 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: WATER

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)		
RT	EXP RT	REL RT	MASS	RESPONSE			TARGET RANGE	RATIO
1 bfb							CAS #: 460-00-4	
9.194	9.180	(0.000)	95	80184			0.00- 100.00	100.00
9.194	9.180	(0.000)	50	14653			15.00- 40.00	18.27
9.194	9.180	(0.000)	75	37744			30.00- 60.00	47.07
9.194	9.180	(0.000)	96	5567			5.00- 9.00	6.94
9.194	9.180	(0.000)	173	0	0.0	0.0	0.00- 2.00	0.00
9.194	9.180	(0.000)	174	70080			50.00- 0.00	87.40
9.194	9.180	(0.000)	175	5888			5.00- 9.00	8.40
9.194	9.180	(0.000)	176	67896			95.00- 101.00	96.88
9.194	9.180	(0.000)	177	4659			5.00- 9.00	6.86

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	18.27
75	30.00 - 60.00% of mass 95	47.07
96	5.00 - 9.00% of mass 95	6.94
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	87.40
175	5.00 - 9.00% of mass 174	7.34 (8.40)
176	95.00 - 101.00% of mass 174	84.68 (96.88)
177	5.00 - 9.00% of mass 176	5.81 (6.86)

Data File: U052913.D
Spectrum: Scan 2293 (9.19)
Location of Maximum: 95.05
Number of points: 88

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	837	62.00	3407	92.00	2285	141.70	92
37.00	3754	63.00	2359	93.00	3358	142.90	755
38.10	3490	64.00	375	94.00	9391	145.10	69
39.00	1325	65.10	160	95.00	80184	145.80	117
40.00	225	68.00	7398	96.00	5567	146.80	58
41.10	73	69.00	7501	97.00	155	147.80	172
42.10	97	70.00	652	103.80	312	149.00	73
43.10	106	71.10	56	104.90	124	149.90	82
44.00	532	72.00	533	105.90	254	152.90	85
45.00	625	73.00	3438	106.80	86	154.80	181
46.00	90	74.00	12608	114.70	53	156.80	112
47.00	1201	75.00	37744	116.00	247	158.90	71
47.90	556	76.00	3465	116.90	412	161.00	68
49.00	3209	77.00	498	117.80	261	171.90	297
50.00	14653	77.90	369	118.90	327	173.90	70080
51.00	4685	78.90	1685	123.90	59	175.00	5888
52.00	258	80.00	552	127.80	289	175.90	67896
55.00	282	80.90	1857	128.90	145	176.90	4659
56.00	1133	81.90	432	129.90	369	177.80	137
57.00	1985	86.10	166	130.90	121		
57.90	135	87.00	3814	134.90	131		
60.00	795	87.90	3431	136.80	126		
61.00	3394	91.00	255	141.00	713		

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052913.D Page 1

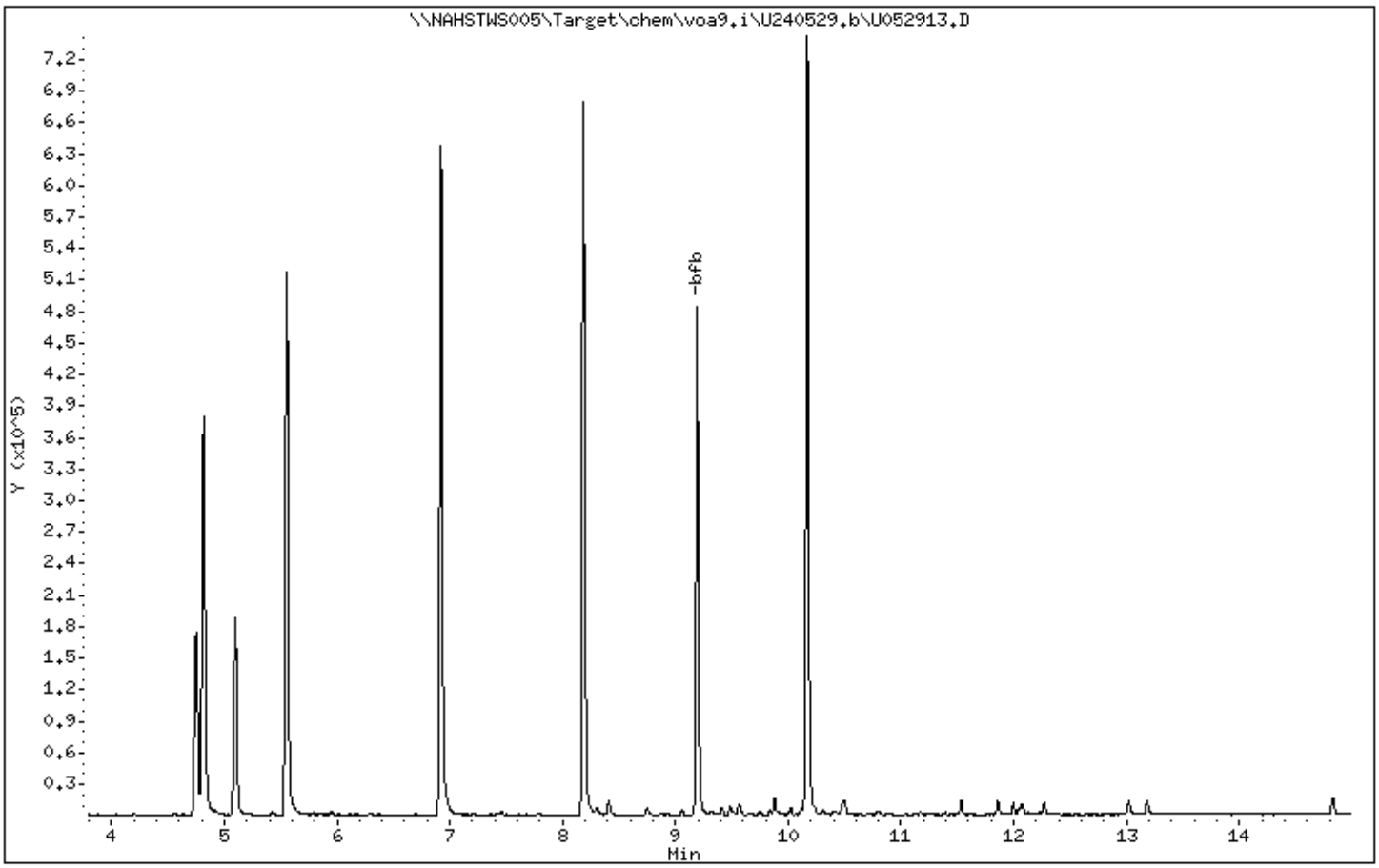
Date : 29-MAY-2024 14:36

Client ID: BFB Instrument: VOA9.i

Sample Info: BFB;BFB;3;;BFB

Volume Injected (uL): 2.0 Operator: FT

Column phase: DB624 Column diameter: 0.25



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052913.D Page 2

Date : 29-MAY-2024 14:36

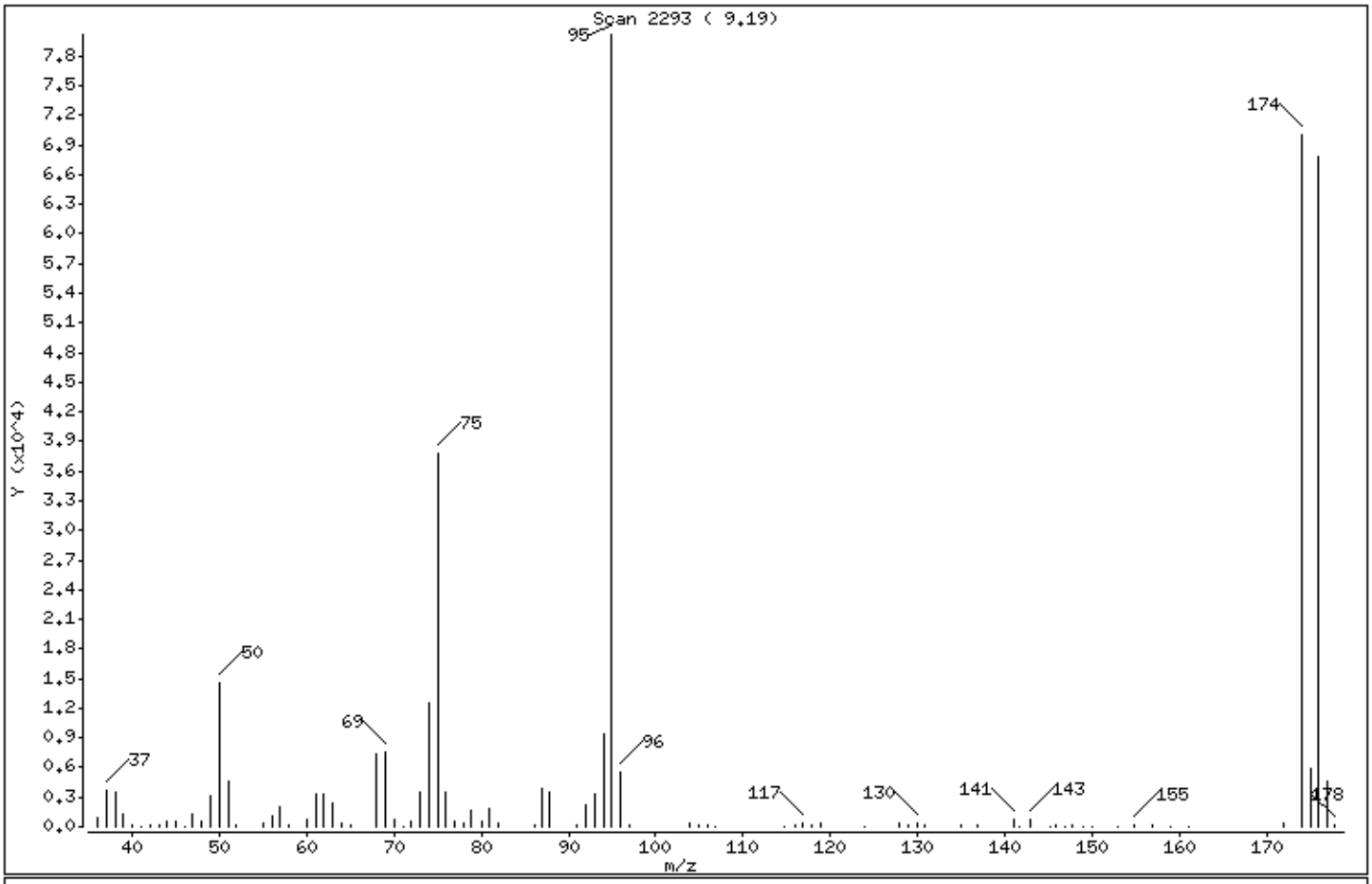
Client ID: BFB Instrument: VOA9.i

Sample Info: BFB;BFB;3;;BFB

Volume Injected (uL): 2.0 Operator: FT

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	18.27
75	30.00 - 60.00% of mass 95	47.07
96	5.00 - 9.00% of mass 95	6.94
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	87.40
175	5.00 - 9.00% of mass 174	7.34 (8.40)
176	95.00 - 101.00% of mass 174	84.68 (96.88)
177	5.00 - 9.00% of mass 176	5.81 (6.86)

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052913.D Page 3

Date : 29-MAY-2024 14:36

Client ID: BFB Instrument: VOA9.i

Sample Info: BFB;BFB;3;;BFB

Volume Injected (uL): 2.0 Operator: FT

Column phase: DB624 Column diameter: 0.25

Data File: U052913.D
Spectrum: Scan 2293 (9.19)
Location of Maximum: 95.05
Number of points: 88

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	837	62.00	3407	92.00	2285	141.70	92
37.00	3754	63.00	2359	93.00	3358	142.90	755
38.10	3490	64.00	375	94.00	9391	145.10	69
39.00	1325	65.10	160	95.00	80184	145.80	117
40.00	225	68.00	7398	96.00	5567	146.80	58
41.10	73	69.00	7501	97.00	155	147.80	172
42.10	97	70.00	652	103.80	312	149.00	73
43.10	106	71.10	56	104.90	124	149.90	82
44.00	532	72.00	533	105.90	254	152.90	85
45.00	625	73.00	3438	106.80	86	154.80	181
46.00	90	74.00	12608	114.70	53	156.80	112
47.00	1201	75.00	37744	116.00	247	158.90	71
47.90	556	76.00	3465	116.90	412	161.00	68
49.00	3209	77.00	498	117.80	261	171.90	297
50.00	14653	77.90	369	118.90	327	173.90	70080
51.00	4685	78.90	1685	123.90	59	175.00	5888
52.00	258	80.00	552	127.80	289	175.90	67896
55.00	282	80.90	1857	128.90	145	176.90	4659
56.00	1133	81.90	432	129.90	369	177.80	137
57.00	1985	86.10	166	130.90	121		
57.90	135	87.00	3814	134.90	131		
60.00	795	87.90	3431	136.80	126		
61.00	3394	91.00	255	141.00	713		

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052914.D Page 1
Report Date: 07-Jun-2024 10:54

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052914.D
Lab Smp Id: VSTD050 Client Smp ID: VSTD050
Inj Date : 29-MAY-2024 14:58
Operator : FT Inst ID: VOA9.i
Smp Info : VSTD050;VSTD050;2;;ICV
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240529.b\8260C.m
Meth Date : 07-Jun-2024 10:14 r.patel Quant Type: ISTD
Cal Date : 29-MAY-2024 13:53 Cal File: U052911.D
Als bottle: 14 QC Sample: METHSPIKE
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14

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	4.815	4.811	(1.000)	287772	50.0000	
2 Dichlorodifluoromethane	85	1.164	1.156	(0.242)	53719	50.0741	50.07
3 Chloromethane	50	1.295	1.288	(0.269)	177348	46.1613	46.16
4 Propionitrile	54	4.339	4.339	(0.901)	160927	509.455	509.45
5 Vinyl Chloride	62	1.378	1.366	(0.286)	102543	47.1872	47.18
6 Bromomethane	94	1.610	1.595	(0.334)	48298	50.8897	50.88
7 Chloroethane	64	1.696	1.681	(0.352)	77244	50.7861	50.78
8 Trichlorofluoromethane	101	1.895	1.884	(0.394)	128651	49.8529	49.85
9 Acrolein	56	2.266	2.259	(0.471)	10741	106.051	106.05
10 Acetone	43	2.412	2.405	(0.501)	81278	93.8084	93.80
11 1,1-Dichloroethene	96	2.334	2.322	(0.485)	87731	46.2461	46.24
12 Isobutyl Alcohol	43	5.284	5.284	(1.097)	316104	1028.57	1028.56
13 Acetonitrile	39	2.671	2.663	(0.555)	109638	469.676	469.67
14 Allyl Chloride	41	2.675	2.667	(0.556)	275022	48.7552	48.75
15 Iodomethane	142	2.469	2.457	(0.513)	50139	113.942	113.94
16 Acrylonitrile	53	3.068	3.061	(0.637)	80768	101.029	101.02
17 Methylene Chloride	84	2.795	2.783	(0.580)	108574	48.8217	48.82
18 Methyl tert-butyl ether	73	3.083	3.076	(0.640)	265782	49.8493	49.84
19 Carbon Disulfide	76	2.517	2.510	(0.523)	494682	92.9567	92.95
20 trans-1,2-Dichloroethene	96	3.057	3.050	(0.635)	95093	44.3300	44.32
21 Vinyl Acetate	43	4.343	4.339	(0.902)	125248	98.7622	98.76

22 1,1-Dichloroethane	63	3.511	3.507 (0.729)	178078	43.2139	43.21
23 Chloroprene	53	3.608	3.601 (0.749)	147641	48.8606	48.86

			QUANT SIG					CONCENTRATIONS ON-COLUMN	CONCENTRATIONS FINAL
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/l)	(ug/l)
	24	2-Butanone	43	4.268	4.260	(0.886)	119814	93.1664	93.16
	25	Methacrylonitrile	41	4.497	4.489	(0.934)	67231	51.0896	51.08(a)
	26	2,2-Dichloropropane	77	4.182	4.174	(0.868)	124372	45.9833	45.98
	27	cis-1,2-Dichloroethene	96	4.197	4.189	(0.872)	116144	43.8397	43.83
	28	Chloroform	83	4.572	4.568	(0.949)	183606	44.6237	44.62
	29	Bromochloromethane	128	4.470	4.463	(0.928)	58378	47.8853	47.88
$	30	Dibromofluoromethane	113	4.748	4.744	(0.986)	90302	49.3912	49.39
	31	1,1,1-Trichloroethane	97	4.740	4.736	(0.984)	143272	49.7227	49.72
	32	1,1-Dichloropropene	75	4.920	4.916	(0.887)	139812	46.4772	46.47
	33	1,2-Dichloroethane	62	5.175	5.171	(0.932)	145293	47.0475	47.04
	34	Carbon Tetrachloride	117	4.909	4.905	(0.885)	116894	49.6058	49.60
$	35	1,2-Dichloroethane-d4	65	5.096	5.093	(1.058)	103550	46.8481	46.84
*	36	1,4-Difluorobenzene	114	5.550	5.550	(1.000)	415329	50.0000	
	37	Benzene	78	5.138	5.134	(0.926)	425847	43.5309	43.53
	38	Trichloroethene	130	5.786	5.786	(1.043)	109914	45.6498	45.64
	39	Bromodichloromethane	83	6.277	6.277	(1.131)	126799	48.1928	48.19
	40	Methyl Methacrylate	41	5.824	5.827	(1.209)	50281	49.8897	49.88
	41	2-Chloroethylvinyl ether	63	6.573	6.573	(1.184)	88566	101.743	101.74
	42	1,2-Dichloropropane	63	6.007	6.007	(1.082)	116276	45.0663	45.06
	43	2-Nitropropane	43	6.506	6.506	(1.351)	26001	52.0149	52.01
	44	Dibromomethane	93	6.120	6.116	(1.103)	68623	45.8011	45.80
	45	4-Methyl-2-Pentanone	43	6.851	6.851	(0.837)	254189	101.311	101.31
	46	cis-1,3-Dichloropropene	75	6.690	6.690	(1.205)	167905	48.2364	48.23
*	47	Chlorobenzene-d5	117	8.185	8.185	(1.000)	371923	50.0000	
$	48	Toluene-d8	98	6.918	6.918	(0.845)	331791	46.7966	46.79
	49	Ethyl Methacrylate	69	7.289	7.289	(1.313)	149924	46.6672	46.66
	50	Toluene	91	6.978	6.978	(0.853)	439801	43.5628	43.56
	51	trans-1,3-Dichloropropene	75	7.196	7.196	(1.296)	138412	48.5304	48.53
	52	2-Hexanone	43	7.589	7.589	(0.927)	164379	100.641	100.64
	53	1,1,2-Trichloroethane	83	7.353	7.353	(0.898)	86984	49.0304	49.03
	54	1,3-Dichloropropane	76	7.496	7.499	(0.916)	190629	46.3559	46.35
	55	Dibromochloromethane	129	7.690	7.690	(0.940)	106208	48.7380	48.73
	56	Tetrachloroethene	164	7.454	7.454	(0.911)	86044	48.7990	48.79
	57	1,2-Dibromoethane	107	7.784	7.784	(0.951)	106542	47.9871	47.98
	58	1-Chlorohexane	55	8.193	8.196	(1.476)	81326	47.2160	47.21
	59	Chlorobenzene	112	8.208	8.208	(1.003)	284675	44.4106	44.41
	60	1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	101188	49.4682	49.46
	61	Ethylbenzene	106	8.305	8.305	(1.015)	144389	48.7297	48.72
	62	m,p-Xylenes	106	8.406	8.406	(1.027)	368978	96.4503	96.45
	63	o-Xylene	106	8.744	8.744	(1.068)	179337	46.6963	46.69
	64	Styrene	104	8.759	8.759	(1.070)	299869	48.7114	48.71
	66	Bromoform	173	8.916	8.916	(1.089)	68169	48.2034	48.20
	67	Isopropylbenzene	105	9.059	9.059	(1.107)	439282	49.4841	49.48
	68	1,1,2,2-Tetrachloroethane	83	9.325	9.329	(0.917)	153451	45.5754	45.57
$	69	4-Bromofluorobenzene	95	9.190	9.190	(1.123)	122316	47.2842	47.28
*	70	1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	202558	50.0000	
	71	1,2,3-Trichloropropane	75	9.362	9.362	(0.921)	150118	47.5463	47.54(M)
	72	trans-1,4-Dichloro-2-butene	53	9.374	9.377	(1.145)	30164	47.4686	47.46
	73	n-Propylbenzene	91	9.411	9.411	(0.926)	503350	46.1115	46.11
	74	Bromobenzene	156	9.314	9.317	(0.916)	124615	44.7399	44.73
	75	1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	354728	47.7645	47.76
	76	2-Chlorotoluene	91	9.482	9.482	(0.933)	309906	48.7638	48.76

77	4-Chlorotoluene	91	9.572	9.576 (0.941)	355012	45.2957	45.29
78	tert-Butylbenzene	119	9.835	9.835 (0.967)	304126	49.6236	49.62

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
79	1,2,4-Trimethylbenzene	105	9.876	9.876	(0.971)	363622	47.5777	47.57
81	sec-Butylbenzene	105	10.018	10.022	(0.985)	408285	49.0860	49.08
82	p-Isopropyltoluene	119	10.146	10.146	(0.998)	359682	49.6230	49.62
83	1,3-Dichlorobenzene	146	10.112	10.116	(0.994)	212984	45.2811	45.28(M)
84	1,4-Dichlorobenzene	146	10.187	10.191	(1.002)	224156	43.0326	43.03
86	Benzyl Chloride	91	10.311	10.311	(1.260)	131578	43.7766	43.77
87	n-Butylbenzene	91	10.491	10.491	(1.032)	308545	47.3013	47.30
88	1,2-Dichlorobenzene	146	10.502	10.502	(1.033)	216164	44.3568	44.35(M)
89	1,2-Dibromo-3-Chloropropane	155	11.166	11.165	(1.098)	21228	49.6795	49.67
90	1,2,4-Trichlorobenzene	180	11.855	11.855	(1.166)	143434	46.7112	46.71
91	Hexachlorobutadiene	225	11.998	11.998	(1.180)	55978	45.4354	45.43
92	Naphthalene	128	12.065	12.065	(1.187)	374407	50.1844	50.18
93	1,2,3-Trichlorobenzene	180	12.268	12.268	(1.206)	135961	47.5293	47.52
146	Methyl acetate	43	2.716	2.708	(0.564)	109893	48.2621	48.26
138	Freon TF	101	2.334	2.326	(0.485)	75696	47.3879	47.38
141	Cyclohexane	56	4.781	4.778	(0.993)	132346	48.3487	48.34
142	Tetrahydrofuran	42	4.545	4.542	(0.944)	42130	102.199	102.19
147	Methylcyclohexane	55	5.947	5.944	(1.072)	247349	48.1996	48.19
135	1,4-Dioxane	88	6.168	6.168	(1.281)	29165	989.088	989.08
132	n-Butanol	56	5.824	5.827	(1.209)	73645	949.984	949.98
136	n-Hexane	57	3.338	3.331	(0.693)	88944	46.4912	46.49
139	Diethyl ether	59	2.146	2.139	(0.446)	75924	50.2503	50.25
148	Tert-butyl alcohol	59	2.978	2.975	(0.619)	211228	1061.03	1061.03
149	Isopropyl alcohol	45	2.574	2.570	(0.534)	163707	1048.72	1048.72
152	Amyl alcohol	42	7.398	7.398	(0.904)	82560	1001.34	1001.33
156	Diisopropyl ether	45	3.623	3.619	(0.752)	324904	44.2190	44.21
162	Butyl acrylate	55	8.733	8.733	(1.067)	188693	47.2660	47.26
187	n-Amyl acetate	43	8.928	8.931	(1.091)	189871	47.0168	47.01
164	Dicyclopentadiene	66	10.198	10.198	(1.003)	461598	44.4310	44.43
166	1,2,3-Trimethylbenzene	105	10.232	10.232	(1.006)	322602	45.7464	45.74
167	Ethanol	45	2.090	2.086	(0.434)	31184	1064.06	1064.06
172	tert-Butyl formate	59	5.246	5.250	(1.090)	220160	96.8522	96.85
173	3,3-Dimethyl-1-butanol	57	7.780	7.784	(0.951)	244807	945.680	945.68
174	tert-Amyl methyl ether	73	5.288	5.284	(1.098)	316230	46.9636	46.96
175	tert-Butyl ethyl ether	59	4.050	4.047	(0.841)	296266	45.0136	45.01
176	tert-Amyl alcohol	59	5.246	5.250	(1.090)	220160	957.382	957.38
151	4-Methyl-2-pentanol	45	7.214	7.222	(1.300)	684124	1000.99	1000.98
140	1,3-Butadiene	54	1.404	1.396	(0.292)	52944	49.7248	49.72
182	Epichlorohydrin	57	6.630	6.630	(1.195)	29494	202.504	202.50
M 94	1,2-Dichloroethylene (total)	96				211237	88.1181	88.11
M 95	Xylenes (total)	106				548315	144.965	144.96
145	alpha-Methylstyrene	118	9.752	9.752	(0.959)	149292	48.1430	48.14
130	Ethyl Acetate	43	4.343	4.339	(0.902)	125248	47.2543	47.25
131	Methyl Acrylate	55	4.369	4.365	(0.907)	132514	49.8882	49.88
189	n-Butyl acetate	43	7.702	7.702	(0.941)	188477	48.2719	48.27
134	Cyclohexanone	55	9.152	9.152	(0.900)	109024	945.905	945.90
185	Isoprene	39	2.157	2.146	(0.448)	22389	48.8527	48.85
188	Isopropyl acetate	43	5.284	5.284	(0.952)	316390	45.9115	45.91
150	Allyl alcohol	57	3.338	3.331	(0.693)	88944	929.824	929.82
194	Acetaldehyde	44	1.464	1.453	(0.304)	86793	182.705	182.70(M)
195	Methyl Amyl Ketone	43	8.868	8.868	(1.083)	211067	46.5857	46.58
200	Dimethyl Disulfide	94	6.746	6.746	(0.824)	73781	40.9419	40.94

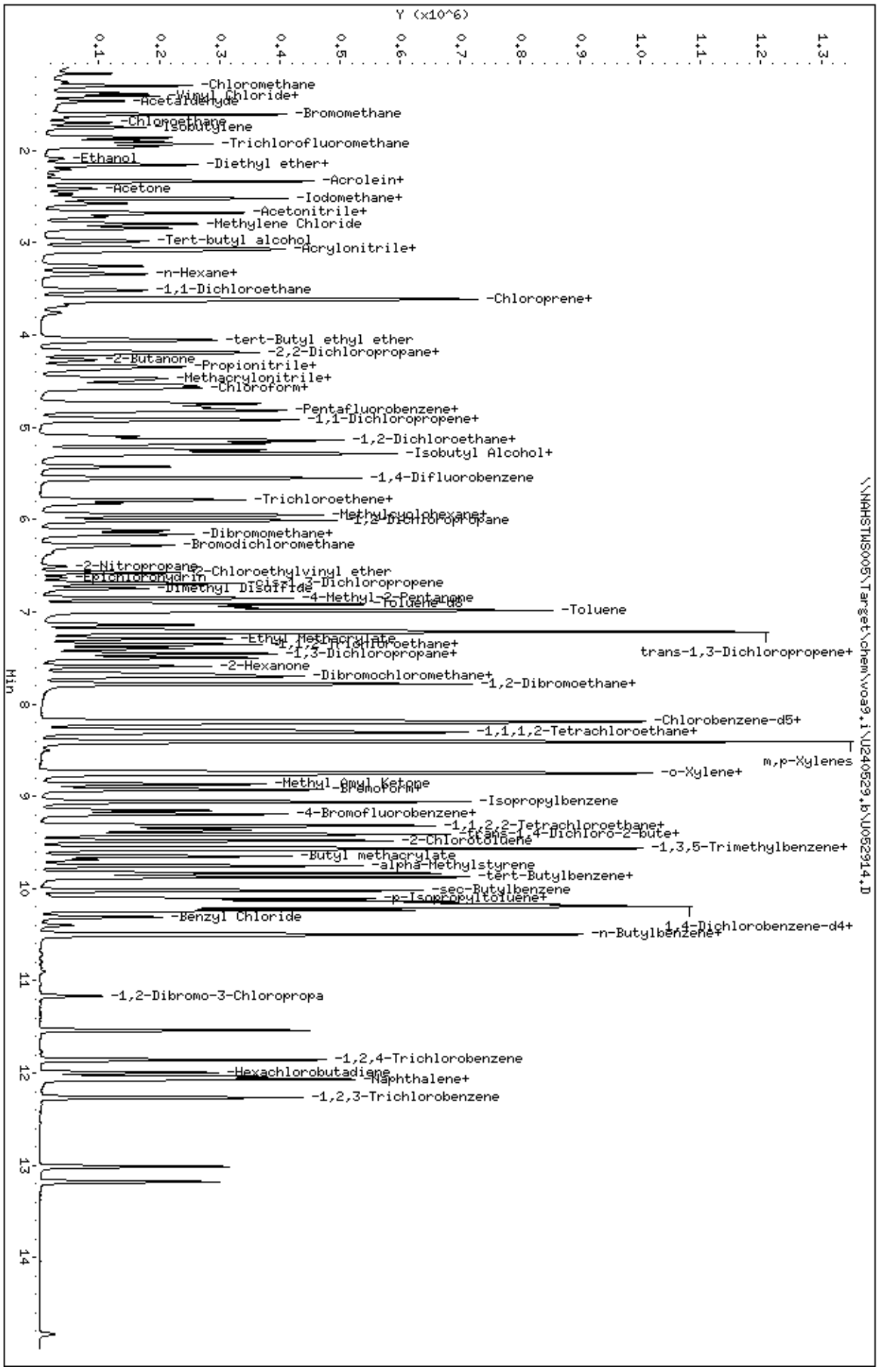
202 Isobutylene	41	1.749	1.734 (0.363)	45044	50.8764	50.87(M)
133 Ethyl Acrylate	55	5.947	5.944 (1.235)	247349	48.4292	48.42

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052914.D Page 4
Report Date: 07-Jun-2024 10:54

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
163 Butyl methacrylate	41	9.647	9.647	(0.949)	103612	44.2067	44.20
159 Propylene oxide	43	2.202	2.191	(0.457)	15875	96.2830	96.28
203 2-Ethylhexyl Acrylate	55	12.039	12.039	(1.184)	118712	47.2131	47.21

QC Flag Legend

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



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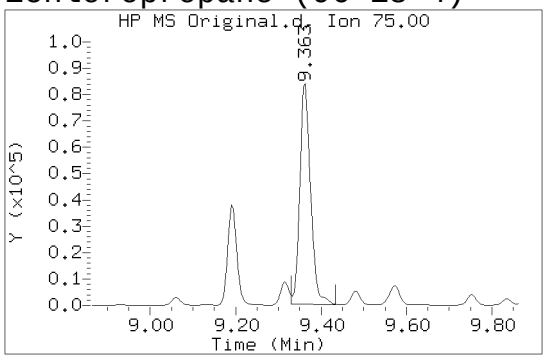
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Operator: FT
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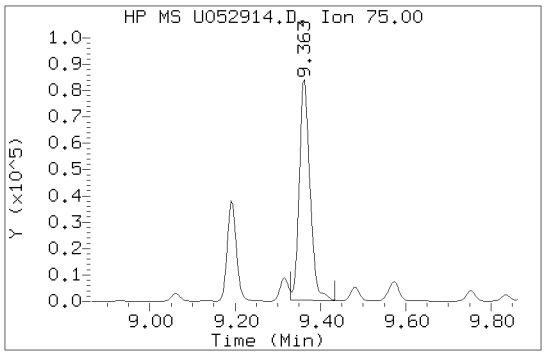
1,2,3-Trichloropropane (96-18-4)

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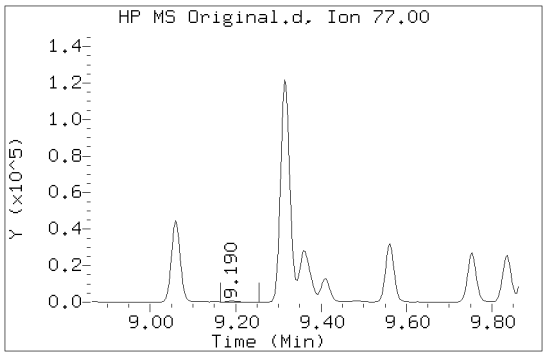
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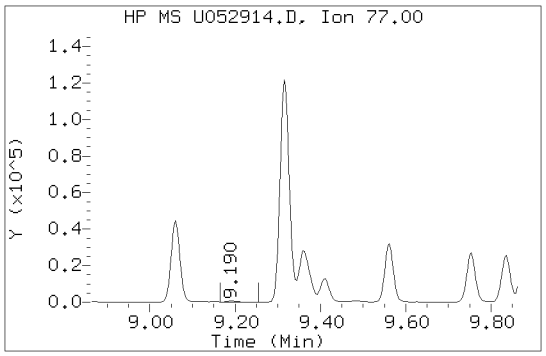
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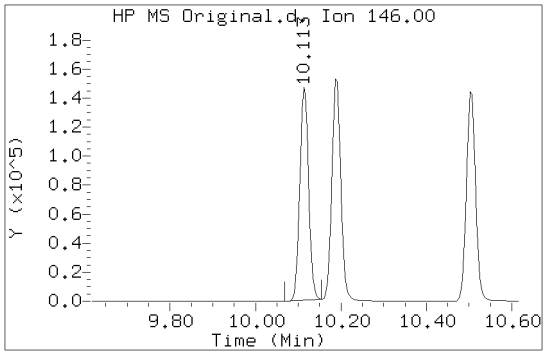
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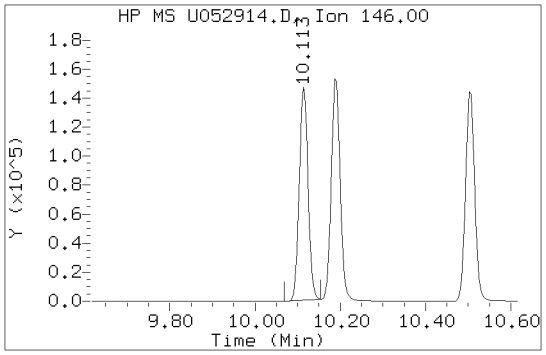
1,3-Dichlorobenzene (541-73-1)

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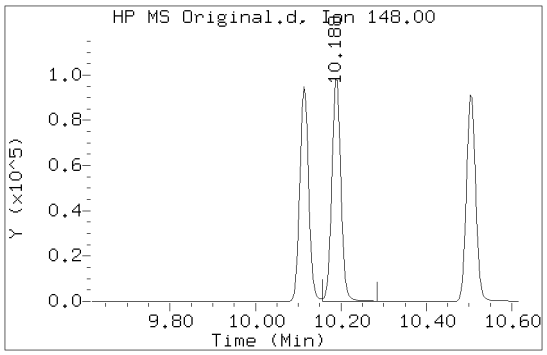
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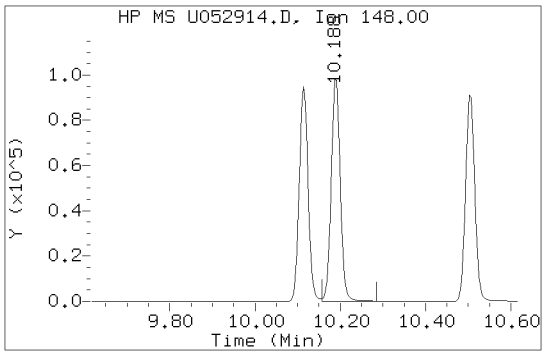
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BEFORE
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AFTER
MASS
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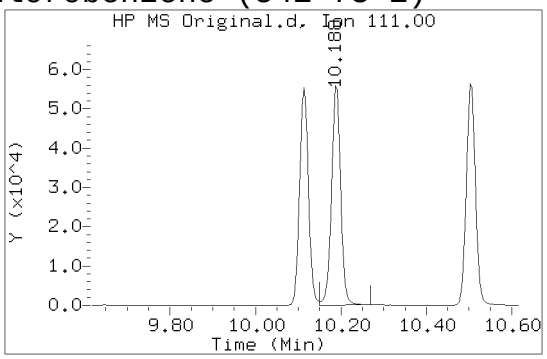
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Inj Date : 29-MAY-2024 14:58
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LabSampID : VSTD050

1,3-Dichlorobenzene (541-73-1)

Reason Code:

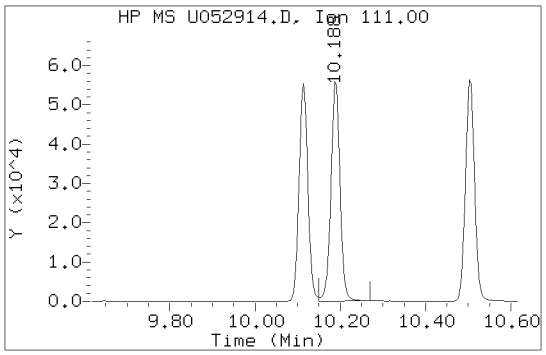
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AFTER

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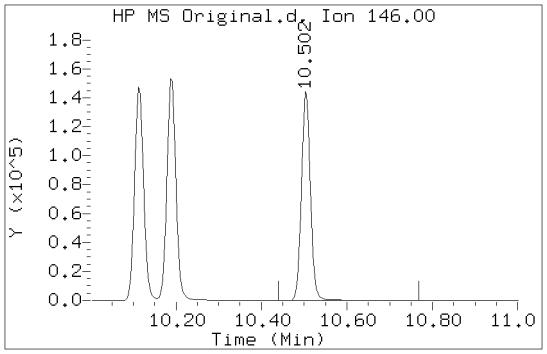


1,2-Dichlorobenzene (95-50-1)

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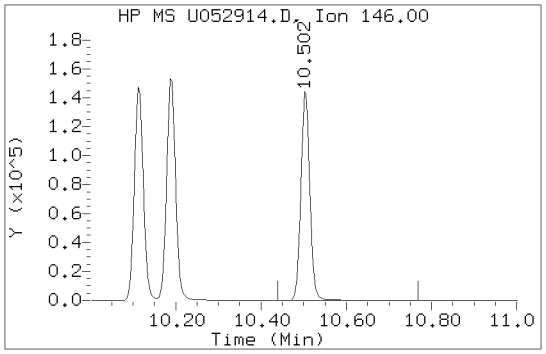
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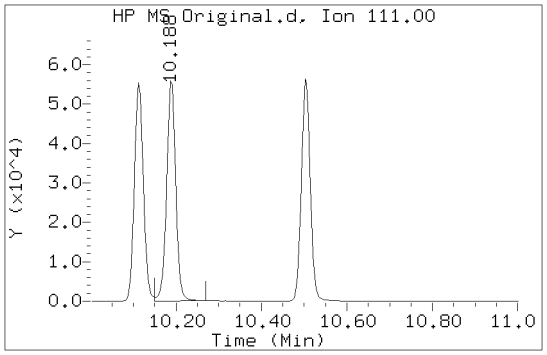
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07-Jun-2024
10:36



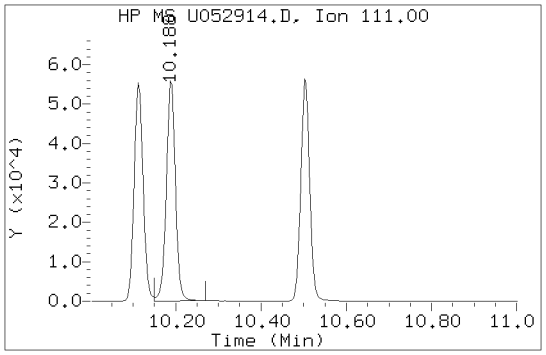
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55841
06-Jun-2024
17:10
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zaid



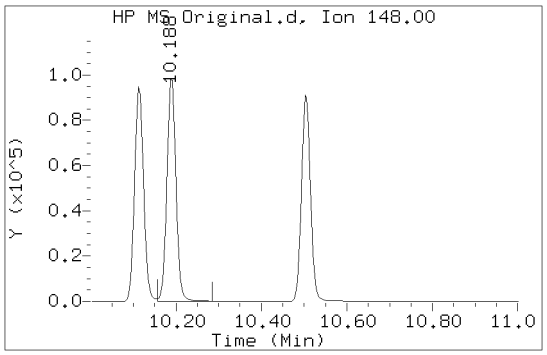
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07-Jun-2024
10:36



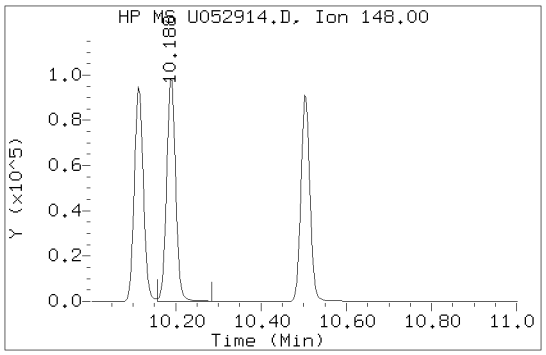
BEFORE

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HEIGHT
97878
06-Jun-2024
17:10
s
zaid



AFTER

MASS
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AREA
144497
HEIGHT
97878
07-Jun-2024
10:36

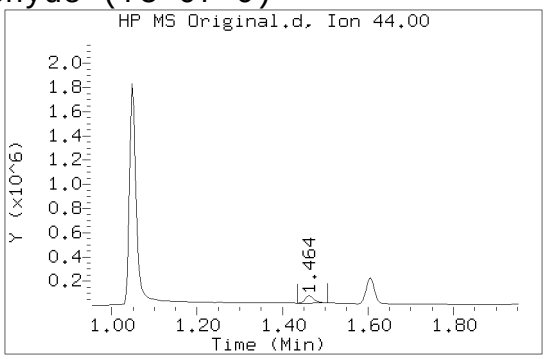


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Inj Date : 29-MAY-2024 14:58
InstruID : VOA9.i
LabSampID : VSTD050

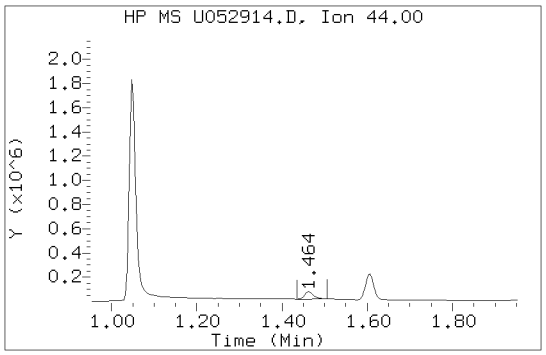
Acetaldehyde (75-07-0)

Reason Code:

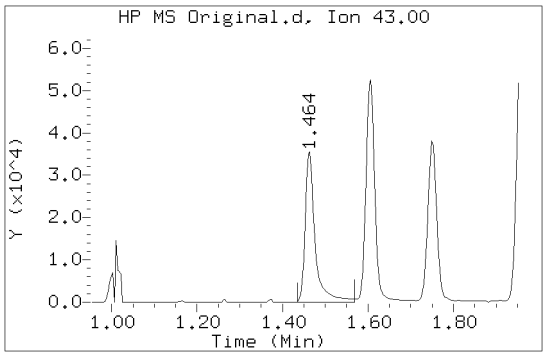
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AREA
86793
HEIGHT
62067
06-Jun-2024
17:10
s
zaid



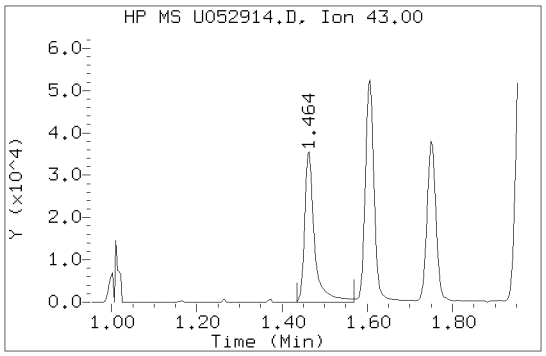
AFTER
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44
AREA
86793
HEIGHT
62067
07-Jun-2024
10:36



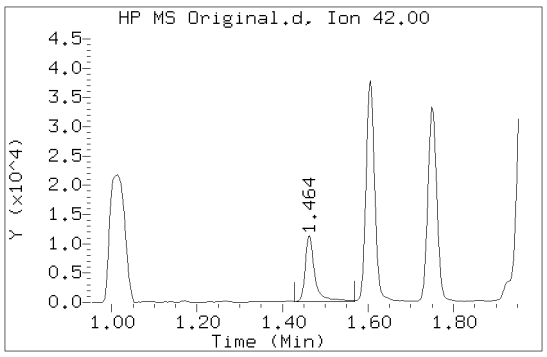
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43
AREA
58334
HEIGHT
35528
06-Jun-2024
17:10
s
zaid



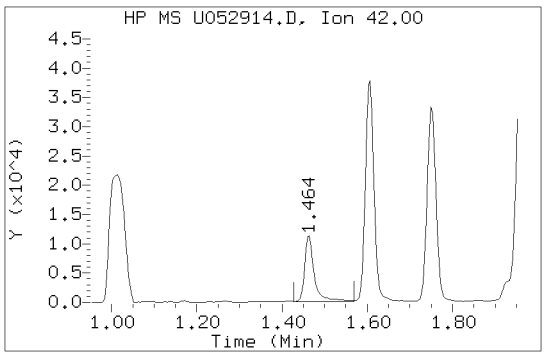
AFTER
MASS
43
AREA
58334
HEIGHT
35528
07-Jun-2024
10:36



BEFORE
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42
AREA
17656
HEIGHT
11223
06-Jun-2024
17:10
s
zaid



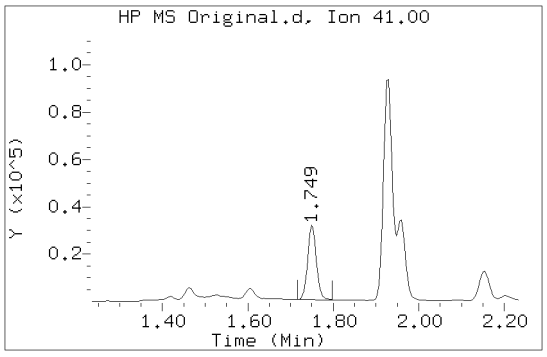
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AREA
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HEIGHT
11223
07-Jun-2024
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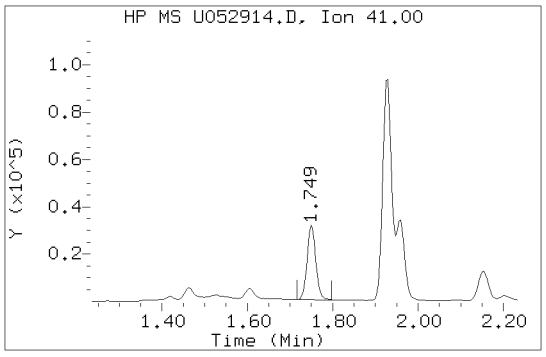
Isobutylene (115-11-7)

Reason Code:

BEFORE
MASS
41
AREA
45044
HEIGHT
31427
06-Jun-2024
17:10
s
zaid



AFTER
MASS
41
AREA
45044
HEIGHT
31427
07-Jun-2024
10:36



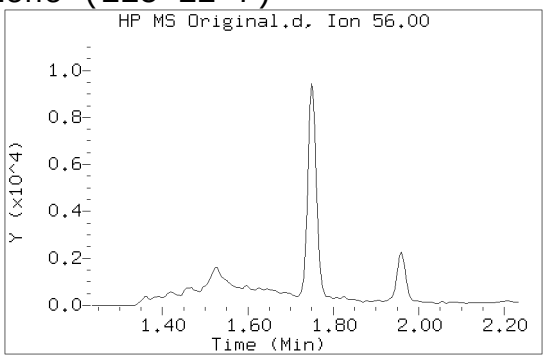
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Inj Date : 29-MAY-2024 14:58
InstruID : VOA9.i
LabSampID : VSTD050

Isobutylene (115-11-7)

Reason Code:

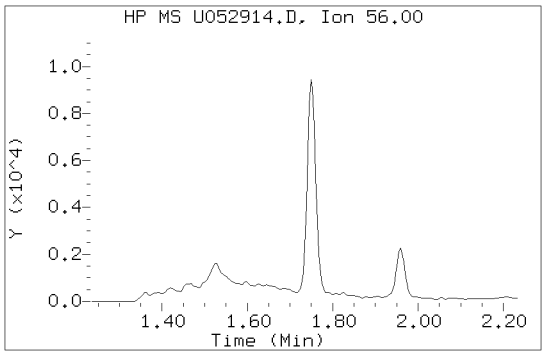
BEFORE

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56
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HEIGHT
0
06-Jun-2024
17:10
s
zaid



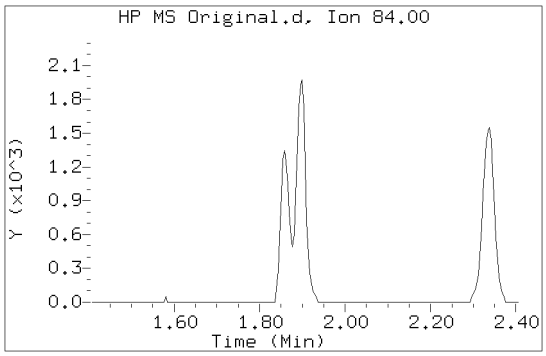
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AREA
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07-Jun-2024
10:36



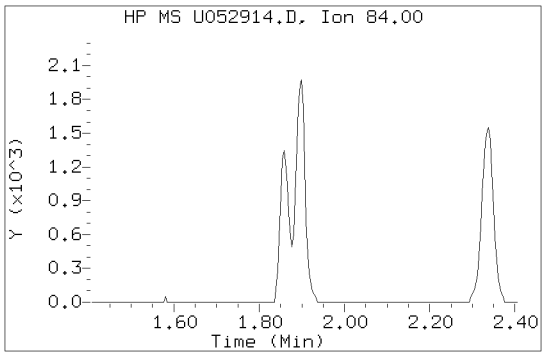
BEFORE

MASS
84
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



AFTER

MASS
84
AREA
0
HEIGHT
0
07-Jun-2024
10:36



right solutions.
right partner.

RawData

<textMethods>

Workorder

HS24051490

Client

Bhate Environmental Associates, Inc.

Project

LHAAP-50

06/24/2024

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\voa9.i\U240529.b\W052801.D Page 1
Report Date: 30-May-2024 09:22

ALS Laboratory Group

Data file : \\nahstws005\Target\chem\voa9.i\U240529.b\W052801.D
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 30-MAY-2024 02:45
Operator : FT Inst ID: VOA9.i
Smp Info : BFB;BFB;3;;BFB
Misc Info : V9;WATER;0;1;
Comment :
Method : \\nahstws005\Target\chem\voa9.i\U240529.b\bfb.m
Meth Date : 27-Jan-2023 08:08 apoluri Quant Type: ISTD
Cal Date : 30-MAR-2018 18:09 Cal File: U033003.d
Als bottle: 44 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: NAHSTW7066

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)		
RT	EXP RT	REL RT	MASS	RESPONSE			TARGET RANGE	RATIO
1 bfb							CAS #: 460-00-4	
9.190	9.180	(0.000)	95	50152			0.00- 100.00	100.00
9.190	9.180	(0.000)	50	9839			15.00- 40.00	19.62
9.190	9.180	(0.000)	75	24800			30.00- 60.00	49.45
9.190	9.180	(0.000)	96	3828			5.00- 9.00	7.63
9.190	9.180	(0.000)	173	0	0.0	0.0	0.00- 2.00	0.00
9.190	9.180	(0.000)	174	41616			50.00- 0.00	82.98
9.190	9.180	(0.000)	175	3658			5.00- 9.00	8.79
9.190	9.180	(0.000)	176	40024			95.00- 101.00	96.17
9.190	9.180	(0.000)	177	2723			5.00- 9.00	6.80

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	19.62
75	30.00 - 60.00% of mass 95	49.45
96	5.00 - 9.00% of mass 95	7.63
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	82.98
175	5.00 - 9.00% of mass 174	7.29 (8.79)
176	95.00 - 101.00% of mass 174	79.81 (96.17)
177	5.00 - 9.00% of mass 176	5.43 (6.80)

Data File: W052801.D
Spectrum: Scan 2292 (9.18)
Location of Maximum: 95.05
Number of points: 83

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	519	61.00	2407	85.80	71	134.80	94
37.00	2700	62.00	2182	87.00	2411	136.80	98
38.00	2265	63.00	1867	87.90	2301	140.20	107
39.00	864	64.00	240	90.90	212	140.90	375
39.90	216	65.00	320	92.00	1424	141.80	54
42.90	101	66.00	51	93.00	2273	142.90	495
44.00	542	67.20	238	94.10	5922	144.90	69
45.00	500	68.00	4929	95.00	50152	145.90	92
46.10	75	69.00	4925	96.00	3828	148.00	129
47.00	760	69.90	502	97.00	108	149.80	80
48.00	318	72.00	272	103.90	208	155.00	115
49.10	2153	73.00	2282	104.80	88	156.80	97
50.00	9839	74.00	8402	105.90	214	158.80	72
51.10	3159	75.00	24800	115.90	202	170.70	56
52.00	165	76.00	2269	116.90	343	172.00	369
53.00	68	76.90	390	117.80	161	173.90	41616
55.00	182	77.90	247	118.80	257	175.00	3658
56.00	828	78.90	1325	127.70	162	175.90	40024
57.00	1259	79.90	403	128.90	92	176.90	2723
58.00	78	80.90	1378	129.90	225	177.80	101
60.00	472	81.90	339	131.00	72		

Data File: \\nahstws005\Target\chem\voa9.i\U240529.b\W052801.D Page 1

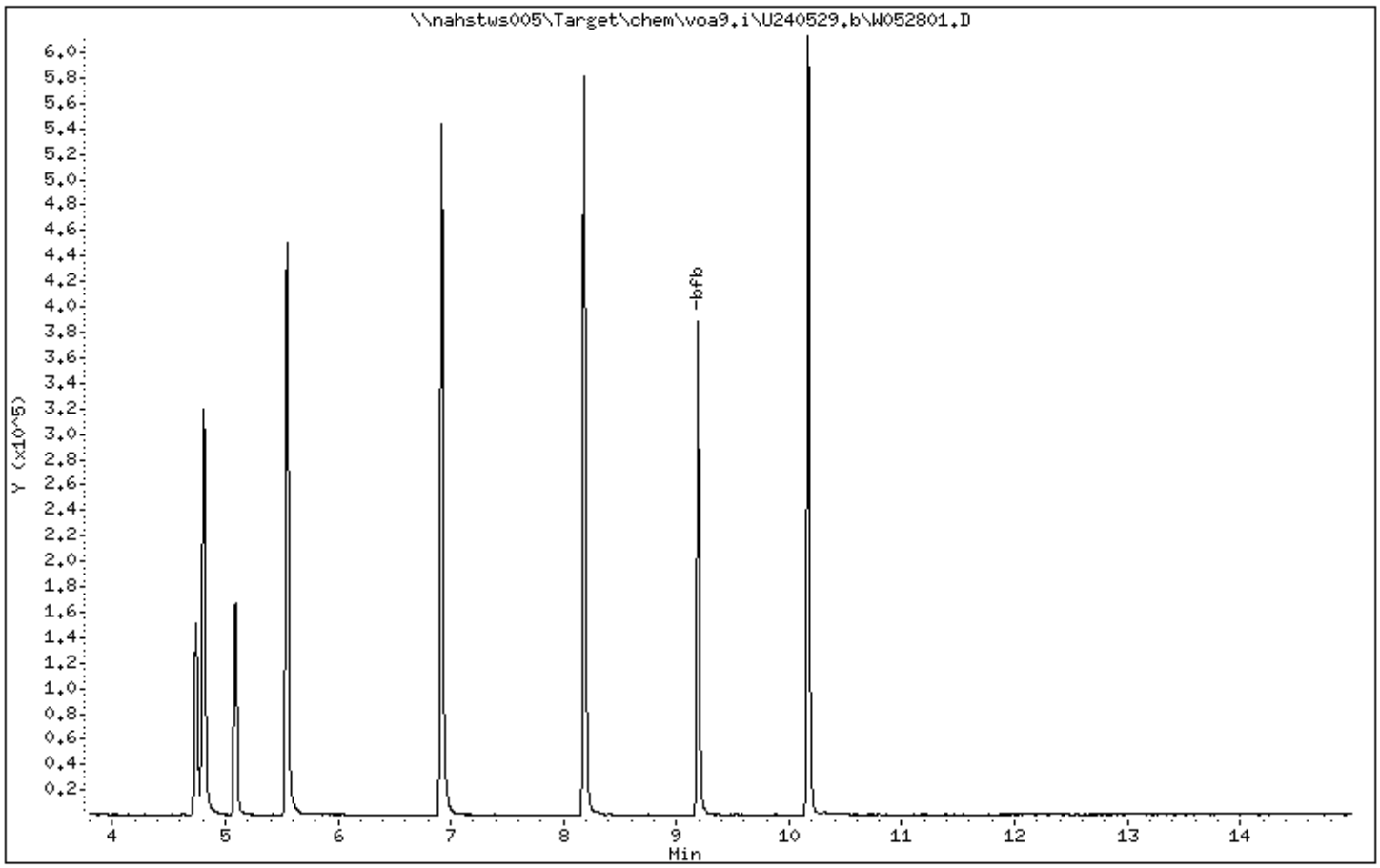
Date : 30-MAY-2024 02:45

Client ID: BFB Instrument: VOA9.i

Sample Info: BFB;BFB;3;;BFB

Volume Injected (uL): 2.0 Operator: FT

Column phase: DB624 Column diameter: 0.25



Data File: \\nahstws005\Target\chem\voa9.i\U240529.b\W052801.D Page 2

Date : 30-MAY-2024 02:45

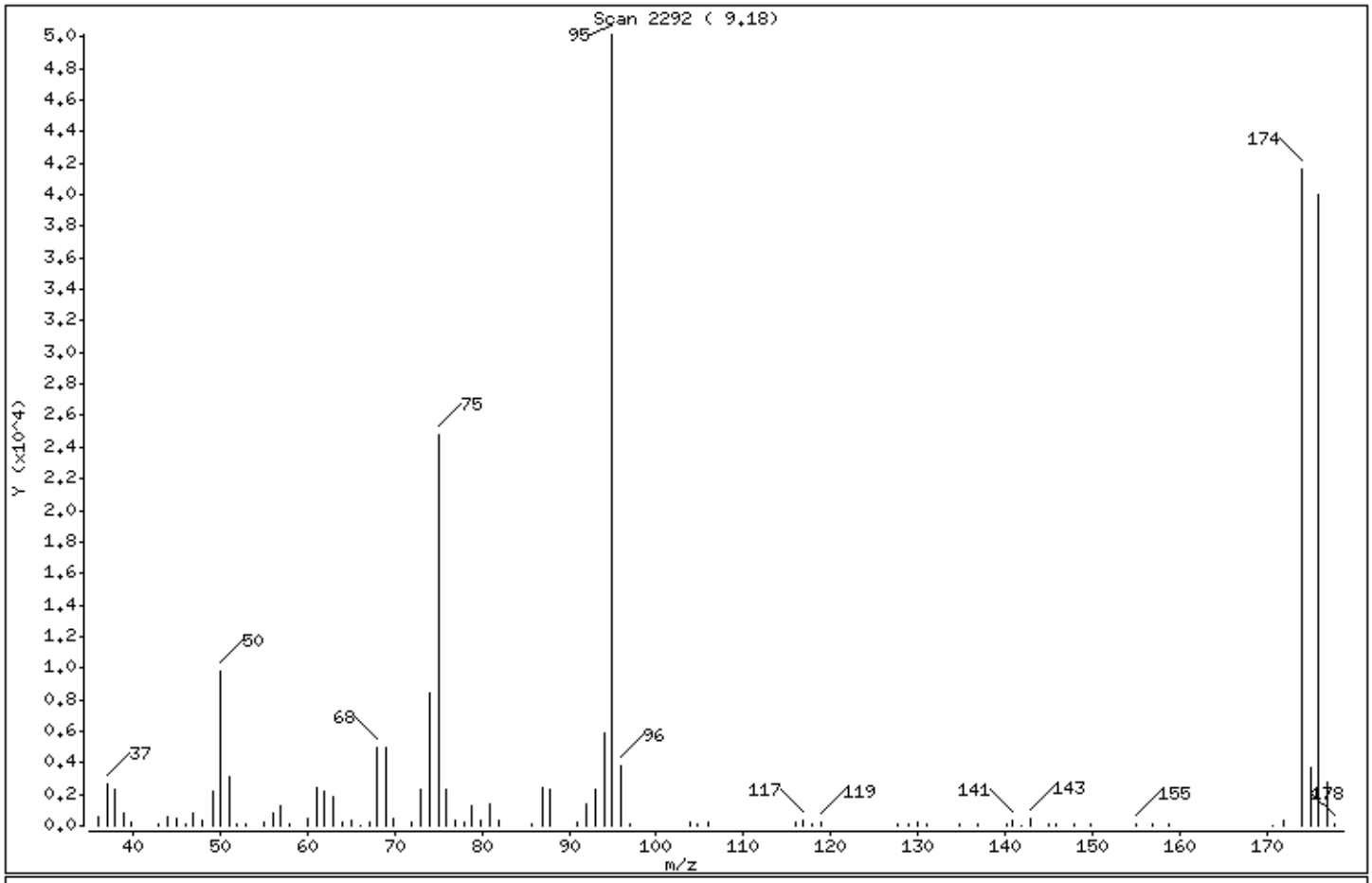
Client ID: BFB Instrument: VOA9.i

Sample Info: BFB;BFB;3;;BFB

Volume Injected (uL): 2.0 Operator: FT

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	19.62
75	30.00 - 60.00% of mass 95	49.45
96	5.00 - 9.00% of mass 95	7.63
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	82.98
175	5.00 - 9.00% of mass 174	7.29 (8.79)
176	95.00 - 101.00% of mass 174	79.81 (96.17)
177	5.00 - 9.00% of mass 176	5.43 (6.80)

Data File: \\nahstws005\Target\chem\voa9.i\U240529.b\W052801.D Page 3

Date : 30-MAY-2024 02:45

Client ID: BFB Instrument: VOA9.i

Sample Info: BFB;BFB;3;;BFB

Volume Injected (uL): 2.0 Operator: FT

Column phase: DB624 Column diameter: 0.25

Data File: W052801.D
Spectrum: Scan 2292 (9.18)
Location of Maximum: 95.05
Number of points: 83

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	519	61.00	2407	85.80	71	134.80	94
37.00	2700	62.00	2182	87.00	2411	136.80	98
38.00	2265	63.00	1867	87.90	2301	140.20	107
39.00	864	64.00	240	90.90	212	140.90	375
39.90	216	65.00	320	92.00	1424	141.80	54
42.90	101	66.00	51	93.00	2273	142.90	495
44.00	542	67.20	238	94.10	5922	144.90	69
45.00	500	68.00	4929	95.00	50152	145.90	92
46.10	75	69.00	4925	96.00	3828	148.00	129
47.00	760	69.90	502	97.00	108	149.80	80
48.00	318	72.00	272	103.90	208	155.00	115
49.10	2153	73.00	2282	104.80	88	156.80	97
50.00	9839	74.00	8402	105.90	214	158.80	72
51.10	3159	75.00	24800	115.90	202	170.70	56
52.00	165	76.00	2269	116.90	343	172.00	369
53.00	68	76.90	390	117.80	161	173.90	41616
55.00	182	77.90	247	118.80	257	175.00	3658
56.00	828	78.90	1325	127.70	162	175.90	40024
57.00	1259	79.90	403	128.90	92	176.90	2723
58.00	78	80.90	1378	129.90	225	177.80	101
60.00	472	81.90	339	131.00	72		

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240529.b\W052802.D Page 1
Report Date: 22-Jun-2024 11:25

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\W052802.D
Lab Smp Id: VSTD050 Client Smp ID: VSTD050
Inj Date : 30-MAY-2024 03:28
Operator : FT Inst ID: VOA9.i
Smp Info : VSTD050;VSTD050;2;;CCV
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240529.b\8260C.m
Meth Date : 22-Jun-2024 11:25 VOA9.i Quant Type: ISTD
Cal Date : 29-MAY-2024 13:53 Cal File: U052911.D
Als bottle: 45 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	4.811	4.811	(1.000)	248318	50.0000	
2	Dichlorodifluoromethane	85	1.160	1.160	(0.241)	53465	50.0000	57.75
3	Chloromethane	50	1.295	1.295	(0.269)	196149	50.0000	59.37
4	Propionitrile	54	4.335	4.335	(0.901)	132632	500.000	487.24
5	Vinyl Chloride	62	1.374	1.374	(0.286)	100774	50.0000	53.74
6	Bromomethane	94	1.606	1.606	(0.334)	43409	50.0000	53.08
7	Chloroethane	64	1.692	1.692	(0.352)	74833	50.0000	56.85
8	Trichlorofluoromethane	101	1.891	1.891	(0.393)	126421	50.0000	56.77
9	Acrolein	56	2.262	2.262	(0.470)	10262	100.000	117.12(M)
10	Acetone	43	2.408	2.408	(0.501)	82300	100.000	110.55
11	1,1-Dichloroethene	96	2.330	2.330	(0.484)	82718	50.0000	50.53
12	Isobutyl Alcohol	43	5.280	5.280	(1.097)	301702	1000.00	1131.94
13	Acetonitrile	39	2.667	2.667	(0.554)	95895	500.000	476.07
14	Allyl Chloride	41	2.671	2.671	(0.555)	232548	50.0000	47.79
15	Iodomethane	142	2.465	2.465	(0.512)	42246	100.000	115.73
16	Acrylonitrile	53	3.064	3.064	(0.637)	65283	100.000	94.73
17	Methylene Chloride	84	2.791	2.791	(0.580)	106438	50.0000	55.50
18	Methyl tert-butyl ether	73	3.079	3.079	(0.640)	219983	50.0000	47.84
19	Carbon Disulfide	76	2.517	2.517	(0.523)	459585	100.000	100.08
20	trans-1,2-Dichloroethene	96	3.053	3.053	(0.635)	90807	50.0000	49.05

21 Vinyl Acetate	43	4.339	4.339 (0.902)	123333	100.000	112.70
22 1,1-Dichloroethane	63	3.511	3.511 (0.730)	177272	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	3.604	3.604	(0.749)	145572	50.0000	55.83
24	2-Butanone	43	4.264	4.264	(0.886)	115259	100.000	103.86
25	Methacrylonitrile	41	4.493	4.493	(0.934)	55354	50.0000	48.82(a)
26	2,2-Dichloropropane	77	4.178	4.178	(0.868)	98365	50.0000	42.14
27	cis-1,2-Dichloroethene	96	4.193	4.193	(0.871)	109588	50.0000	47.93
28	Chloroform	83	4.568	4.568	(0.949)	184190	50.0000	51.87
29	Bromochloromethane	128	4.467	4.467	(0.928)	56811	50.0000	53.96
$ 30	Dibromofluoromethane	113	4.744	4.744	(0.986)	92006	50.0000	58.12
31	1,1,1-Trichloroethane	97	4.740	4.740	(0.985)	141477	50.0000	56.90
32	1,1-Dichloropropene	75	4.920	4.920	(0.887)	134523	50.0000	51.78
33	1,2-Dichloroethane	62	5.171	5.171	(0.932)	151490	50.0000	56.68
34	Carbon Tetrachloride	117	4.909	4.909	(0.885)	113352	50.0000	55.70
$ 35	1,2-Dichloroethane-d4	65	5.096	5.096	(1.059)	108893	50.0000	56.99
* 36	1,4-Difluorobenzene	114	5.550	5.550	(1.000)	358648	50.0000	
37	Benzene	78	5.134	5.134	(0.925)	416615	50.0000	49.31
38	Trichloroethene	130	5.786	5.786	(1.043)	103580	50.0000	49.81
39	Bromodichloromethane	83	6.277	6.277	(1.131)	127735	50.0000	56.22
40	Methyl Methacrylate	41	5.820	5.820	(1.210)	39615	50.0000	45.73
41	2-Chloroethylvinyl ether	63	6.573	6.573	(1.184)	79941	100.000	105.93
42	1,2-Dichloropropane	63	6.007	6.007	(1.082)	115865	50.0000	52.00
43	2-Nitropropane	43	6.506	6.506	(1.352)	21537	50.0000	50.10
44	Dibromomethane	93	6.116	6.116	(1.102)	69004	50.0000	53.33
45	4-Methyl-2-Pentanone	43	6.851	6.851	(0.837)	248265	100.000	113.42
46	cis-1,3-Dichloropropene	75	6.689	6.689	(1.205)	157912	50.0000	52.30
* 47	Chlorobenzene-d5	117	8.181	8.181	(1.000)	323257	50.0000	
$ 48	Toluene-d8	98	6.918	6.918	(0.846)	358321	50.0000	58.09
49	Ethyl Methacrylate	69	7.289	7.289	(1.313)	121416	50.0000	43.76
50	Toluene	91	6.978	6.978	(0.853)	427652	50.0000	48.73
51	trans-1,3-Dichloropropene	75	7.196	7.196	(1.296)	131235	50.0000	52.98
52	2-Hexanone	43	7.589	7.589	(0.928)	161760	100.000	113.23
53	1,1,2-Trichloroethane	83	7.353	7.353	(0.899)	88988	50.0000	57.63
54	1,3-Dichloropropane	76	7.495	7.495	(0.916)	190962	50.0000	53.42
55	Dibromochloromethane	129	7.690	7.690	(0.940)	103195	50.0000	54.19
56	Tetrachloroethene	164	7.454	7.454	(0.911)	80986	50.0000	52.84
57	1,2-Dibromoethane	107	7.780	7.780	(0.951)	104153	50.0000	53.97
58	1-Chlorohexane	55	8.193	8.193	(1.476)	77332	50.0000	51.86
59	Chlorobenzene	112	8.208	8.208	(1.003)	277546	50.0000	49.81
60	1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	98884	50.0000	55.61
61	Ethylbenzene	106	8.305	8.305	(1.015)	137944	50.0000	53.42
62	m,p-Xylenes	106	8.406	8.406	(1.027)	354483	100.000	106.47
63	o-Xylene	106	8.744	8.744	(1.069)	173211	50.0000	51.80
64	Styrene	104	8.759	8.759	(1.071)	292745	50.0000	54.71
66	Bromoform	173	8.916	8.916	(1.090)	64053	50.0000	51.82
67	Isopropylbenzene	105	9.059	9.059	(1.107)	427108	50.0000	55.35
68	1,1,2,2-Tetrachloroethane	83	9.325	9.325	(0.917)	148670	50.0000	50.66
$ 69	4-Bromofluorobenzene	95	9.190	9.190	(1.123)	132571	50.0000	58.98
* 70	1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	176531	50.0000	
71	1,2,3-Trichloropropane	75	9.359	9.359	(0.920)	145528	50.0000	52.88
72	trans-1,4-Dichloro-2-butene	53	9.374	9.374	(1.146)	28124	50.0000	50.92
73	n-Propylbenzene	91	9.411	9.411	(0.926)	490124	50.0000	51.51
74	Bromobenzene	156	9.314	9.314	(0.916)	121332	50.0000	49.98
75	1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	343878	50.0000	53.00

76	2-Chlorotoluene	91	9.479	9.479 (0.932)	304567	50.0000	54.87
77	4-Chlorotoluene	91	9.572	9.572 (0.941)	352161	50.0000	51.55

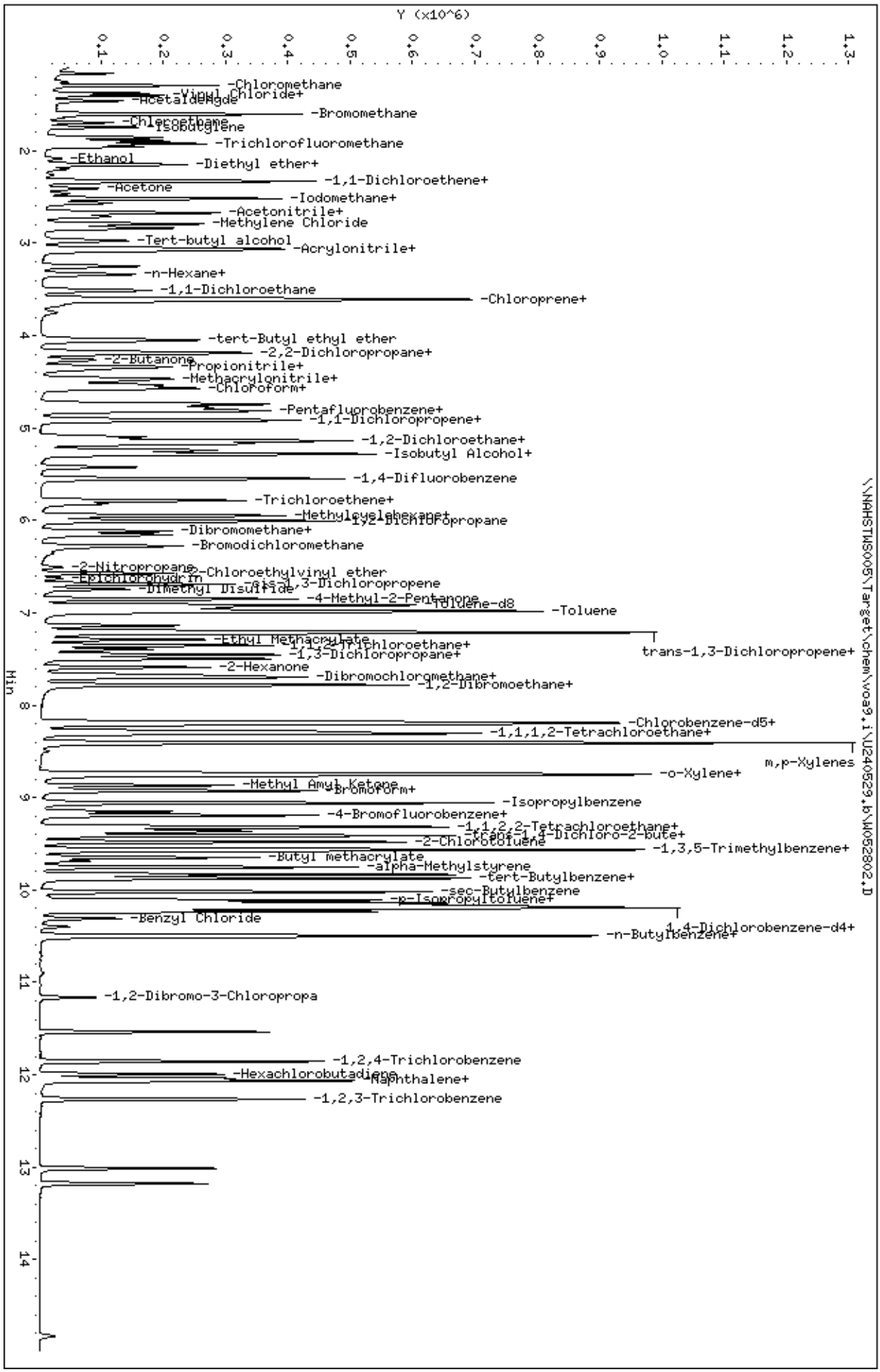
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
78	tert-Butylbenzene	119	9.835	9.835	(0.967)	298736	50.0000	55.93
79	1,2,4-Trimethylbenzene	105	9.876	9.876	(0.971)	346678	50.0000	52.09
81	sec-Butylbenzene	105	10.018	10.018	(0.985)	396370	50.0000	54.67
82	p-Isopropyltoluene	119	10.142	10.142	(0.997)	341420	50.0000	54.04
83	1,3-Dichlorobenzene	146	10.112	10.112	(0.994)	210490	50.0000	51.34(M)
84	1,4-Dichlorobenzene	146	10.187	10.187	(1.002)	220382	50.0000	48.54
86	Benzyl Chloride	91	10.307	10.307	(1.260)	104177	50.0000	40.13(M)
87	n-Butylbenzene	91	10.491	10.491	(1.032)	291938	50.0000	51.19
88	1,2-Dichlorobenzene	146	10.502	10.502	(1.033)	212832	50.0000	50.11(M)
89	1,2-Dibromo-3-Chloropropane	155	11.165	11.165	(1.098)	18933	50.0000	50.76
90	1,2,4-Trichlorobenzene	180	11.855	11.855	(1.166)	137439	50.0000	51.35
91	Hexachlorobutadiene	225	11.994	11.994	(1.180)	54761	50.0000	51.00
92	Naphthalene	128	12.065	12.065	(1.187)	350418	50.0000	53.78
93	1,2,3-Trichlorobenzene	180	12.268	12.268	(1.206)	128837	50.0000	51.67
146	Methyl acetate	43	2.712	2.712	(0.564)	112288	50.0000	57.10
138	Freon TF	101	2.330	2.330	(0.484)	71750	50.0000	51.85
141	Cyclohexane	56	4.781	4.781	(0.994)	128418	50.0000	54.26
142	Tetrahydrofuran	42	4.541	4.541	(0.944)	35818	100.000	100.72
147	Methylcyclohexane	55	5.943	5.943	(1.071)	206361	50.0000	46.64
135	1,4-Dioxane	88	6.165	6.165	(1.281)	21936	1000.00	863.73
132	n-Butanol	56	5.820	5.820	(1.210)	54821	1000.00	819.52
136	n-Hexane	57	3.338	3.338	(0.694)	74168	50.0000	44.99
139	Diethyl ether	59	2.142	2.142	(0.445)	63519	50.0000	48.75
148	Tert-butyl alcohol	59	2.971	2.971	(0.617)	157920	1000.00	923.69
149	Isopropyl alcohol	45	2.566	2.566	(0.533)	127471	1000.00	950.15
152	Amyl alcohol	42	7.394	7.394	(0.904)	63342	1000.00	890.72
156	Diisopropyl ether	45	3.619	3.619	(0.752)	286664	50.0000	45.21
162	Butyl acrylate	55	8.729	8.729	(1.067)	149625	50.0000	43.37
187	n-Amyl acetate	43	8.927	8.927	(1.091)	179521	50.0000	51.14
164	Dicyclopentadiene	66	10.198	10.198	(1.003)	410038	50.0000	45.28
166	1,2,3-Trimethylbenzene	105	10.232	10.232	(1.006)	276908	50.0000	45.06
167	Ethanol	45	2.086	2.086	(0.434)	24244	1000.00	962.58
172	tert-Butyl formate	59	5.239	5.239	(1.089)	161138	100.000	82.15
173	3,3-Dimethyl-1-butanol	57	7.780	7.780	(0.951)	187128	1000.00	831.69
174	tert-Amyl methyl ether	73	5.284	5.284	(1.098)	250727	50.0000	43.15
175	tert-Butyl ethyl ether	59	4.047	4.047	(0.841)	246582	50.0000	43.41
176	tert-Amyl alcohol	59	5.239	5.239	(1.089)	161138	1000.00	812.05
151	4-Methyl-2-pentanol	45	7.214	7.214	(1.300)	537075	1000.00	915.06
140	1,3-Butadiene	54	1.400	1.400	(0.291)	49519	50.0000	53.89
182	Epichlorohydrin	57	6.630	6.630	(1.195)	22189	200.000	178.15
M 94	1,2-Dichloroethylene (total)	96				200395	100.000	(a)
145	alpha-Methylstyrene	118	9.752	9.752	(0.959)	141225	50.0000	52.06
130	Ethyl Acetate	43	4.339	4.339	(0.902)	123333	50.0000	53.92
131	Methyl Acrylate	55	4.365	4.365	(0.907)	108360	50.0000	47.34
189	n-Butyl acetate	43	7.702	7.702	(0.941)	181411	50.0000	53.45
134	Cyclohexanone	55	9.149	9.149	(0.900)	81444	1000.00	813.84
185	Isoprene	39	2.154	2.154	(0.448)	22529	50.0000	56.57
188	Isopropyl acetate	43	5.280	5.280	(0.951)	301655	50.0000	50.69
150	Allyl alcohol	57	3.338	3.338	(0.694)	74168	1000.00	899.90
194	Acetaldehyde	44	1.460	1.460	(0.304)	84501	200.000	205.32(M)
195	Methyl Amyl Ketone	43	8.864	8.864	(1.083)	168461	50.0000	42.77
200	Dimethyl Disulfide	94	6.742	6.742	(0.824)	55293	50.0000	36.20

202 Isobutylene	41	1.745	1.745 (0.363)	38172	50.0000	49.99(M)
133 Ethyl Acrylate	55	5.943	5.943 (1.235)	206361	50.0000	46.89

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
163 Butyl methacrylate	41	9.647	9.647	(0.949)	89536	50.0000	43.83
159 Propylene oxide	43	2.199	2.199	(0.457)	14335	100.000	100.68
203 2-Ethylhexyl Acrylate	55	12.039	12.039	(1.184)	100955	50.0000	46.17

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: VSTD050
Sample Info: VSTD050;VSTD050;2;;CCV
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Column phase: DB624

Instrument: VOA9.i
Operator: FT
Column diameter: 0.18

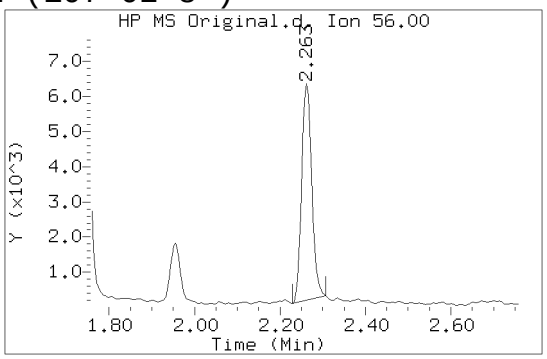
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Acrolein (107-02-8)

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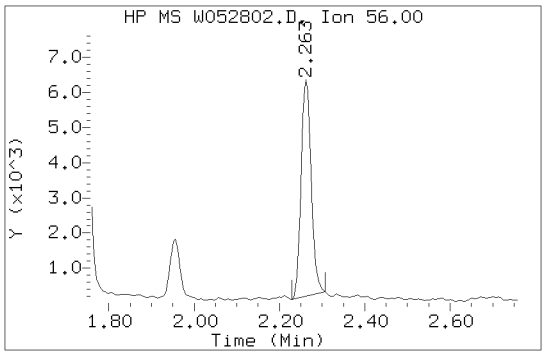
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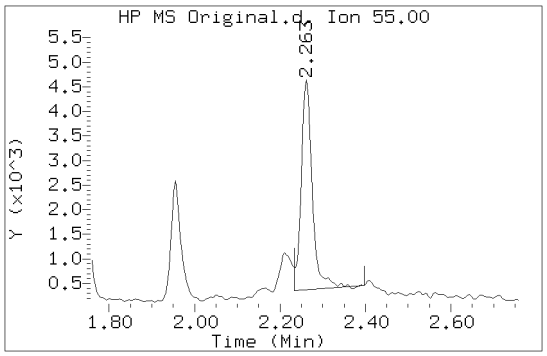
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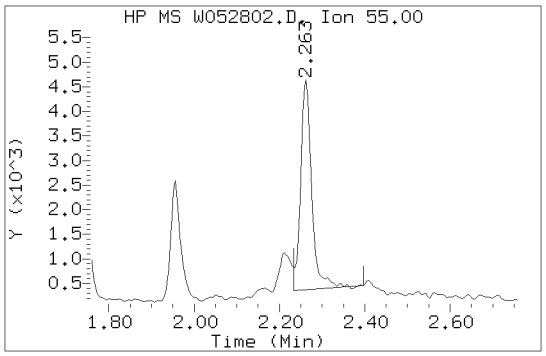
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AFTER

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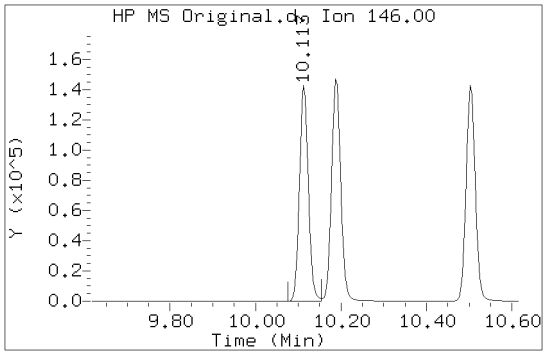


1,3-Dichlorobenzene (541-73-1)

Reason Code:

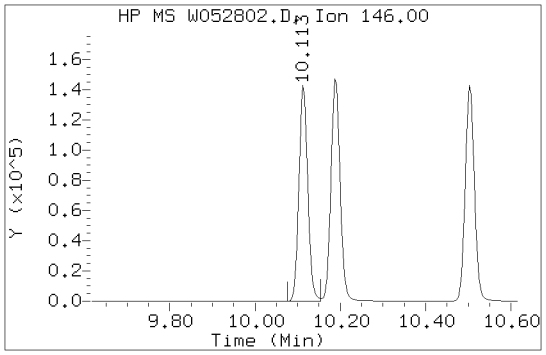
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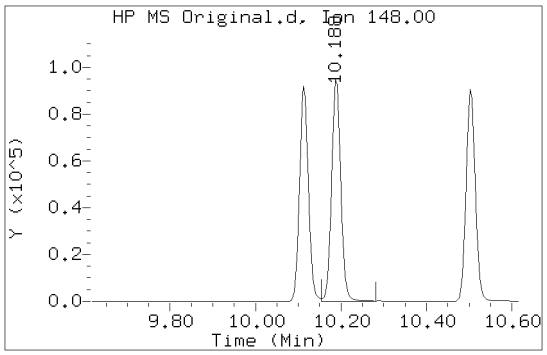
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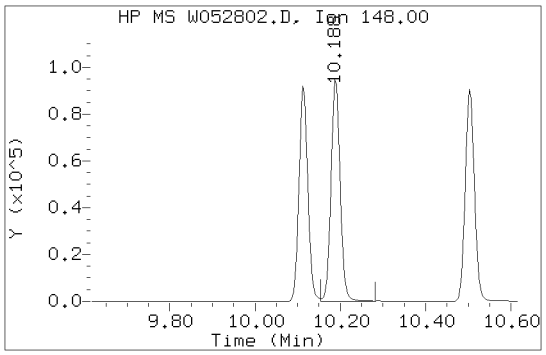
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AFTER

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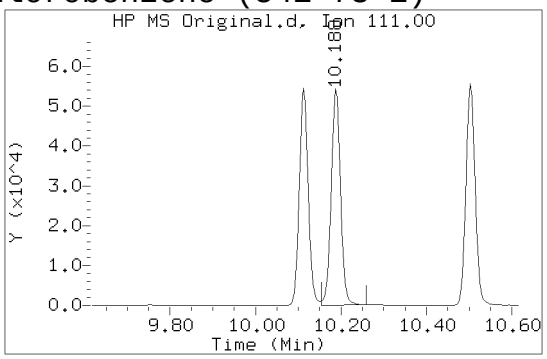
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LabSampID : VSTD050

1,3-Dichlorobenzene (541-73-1)

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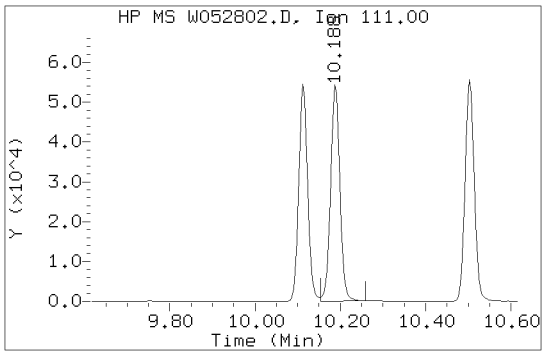
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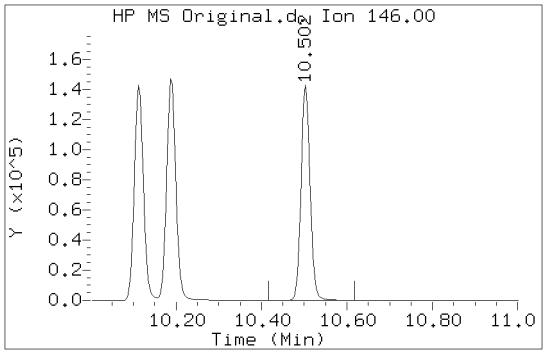


1,2-Dichlorobenzene (95-50-1)

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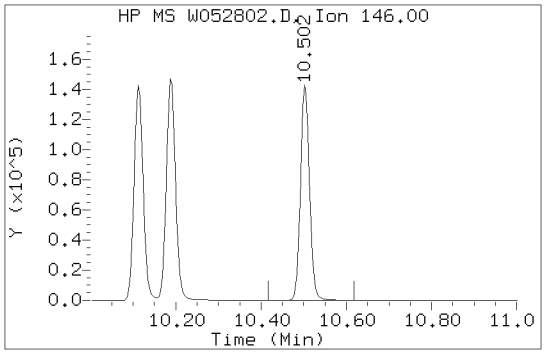
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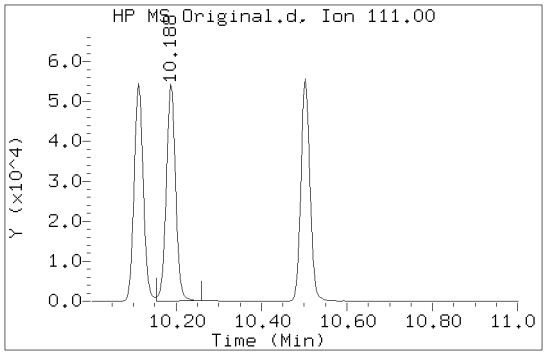
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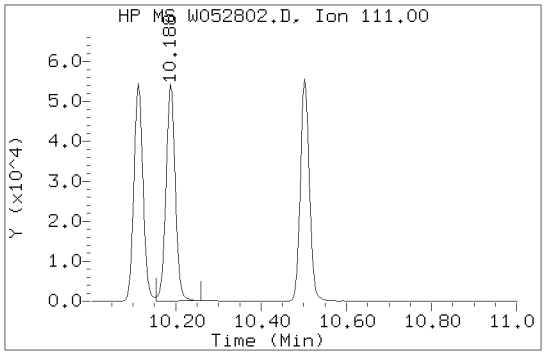
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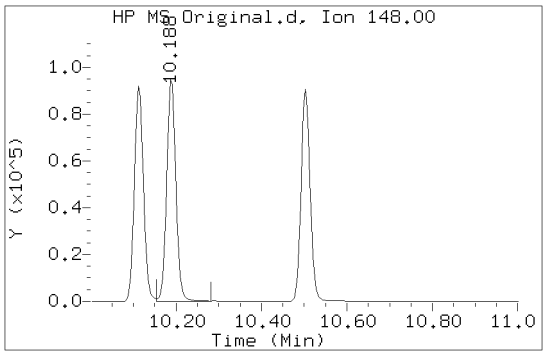
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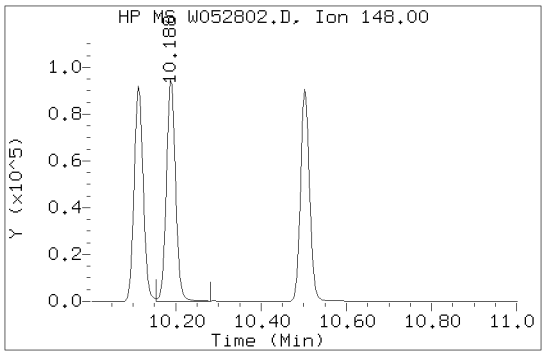
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AFTER

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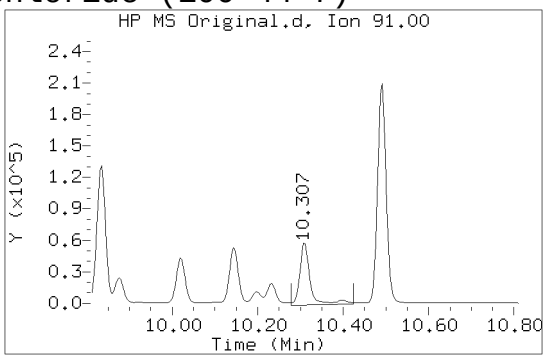
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InstruID : VOA9.i
LabSampID : VSTD050

Benzyl Chloride (100-44-7)

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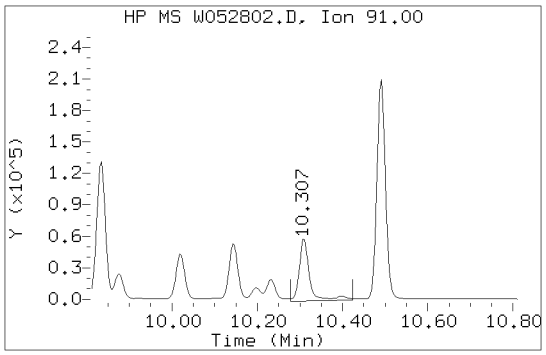
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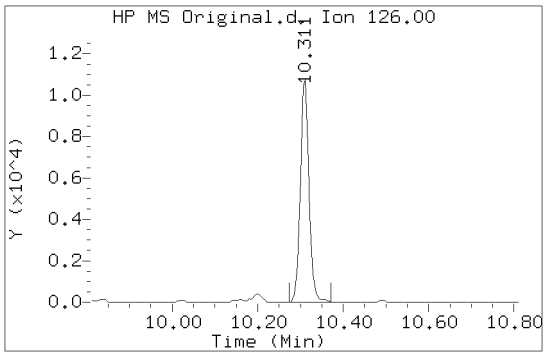
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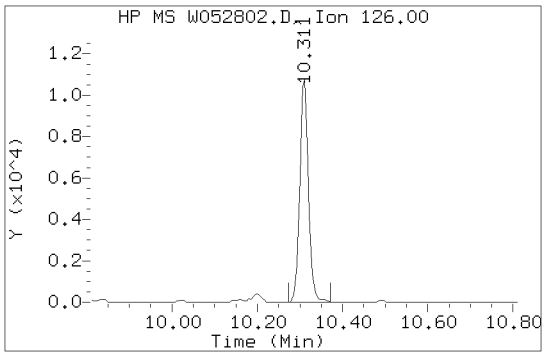
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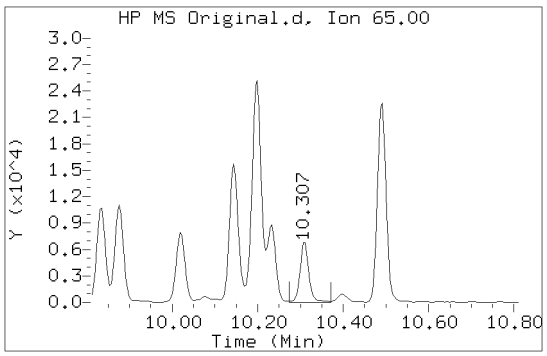
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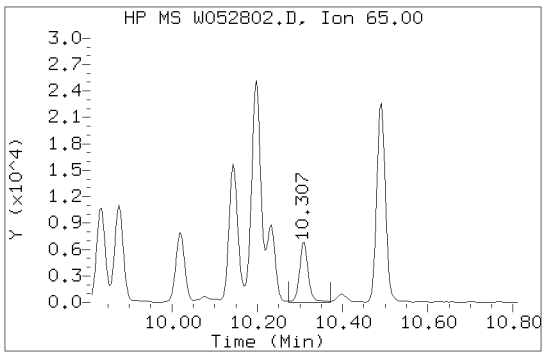
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AFTER

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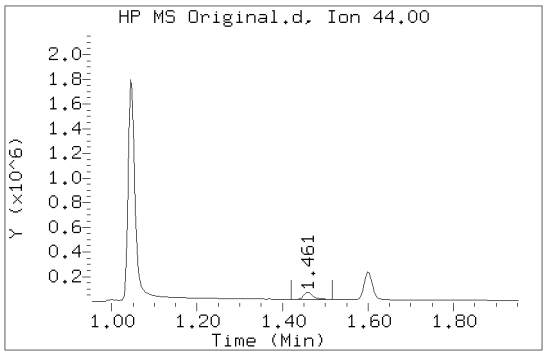


Acetaldehyde (75-07-0)

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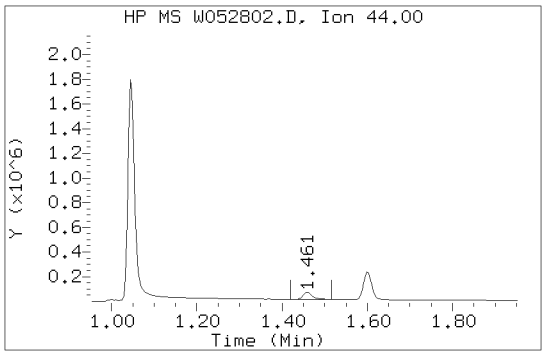
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AFTER

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22-Jun-2024
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RUCHA
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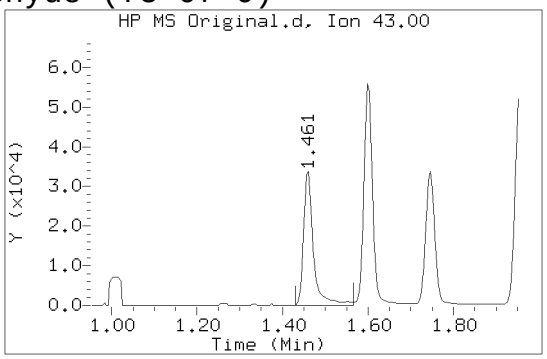
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InstruID : VOA9.i
LabSampID : VSTD050

Acetaldehyde (75-07-0)

Reason Code:

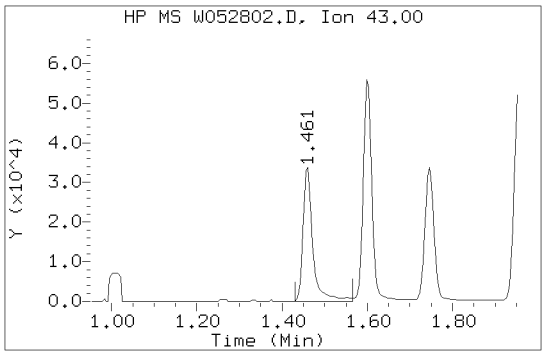
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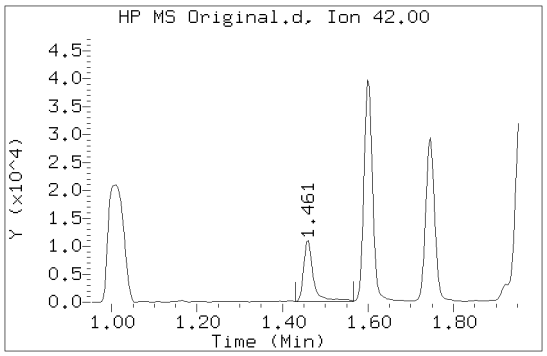
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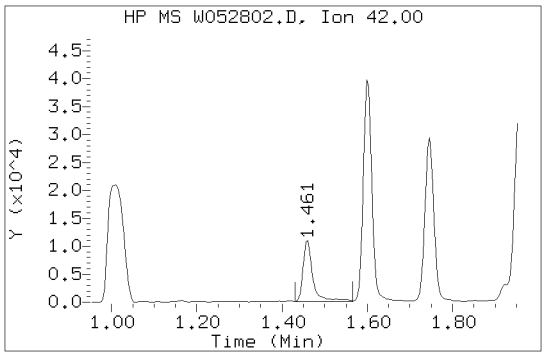
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AFTER

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22-Jun-2024
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PATEL

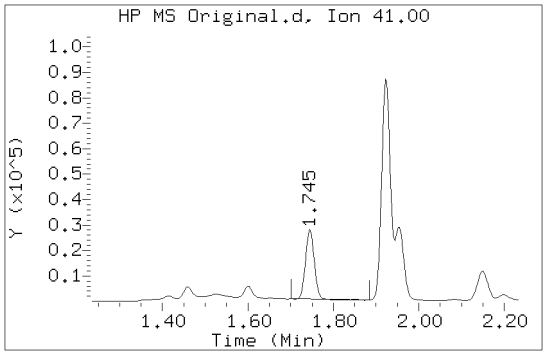


Isobutylene (115-11-7)

Reason Code:

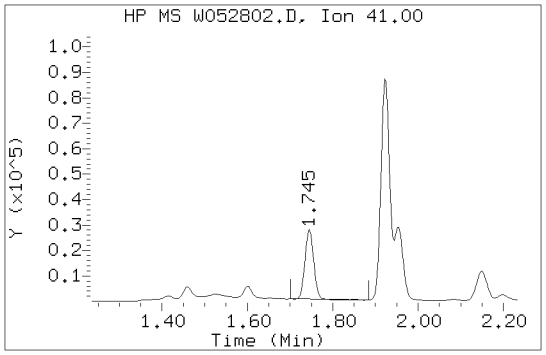
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11:25
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PATEL



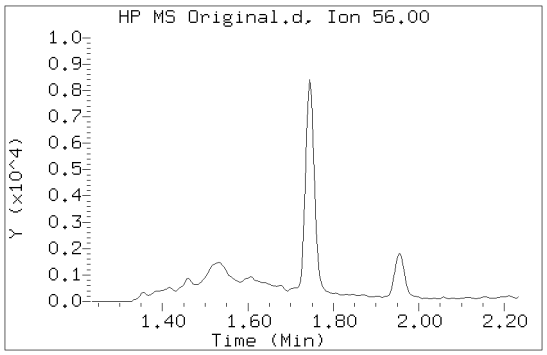
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11:25
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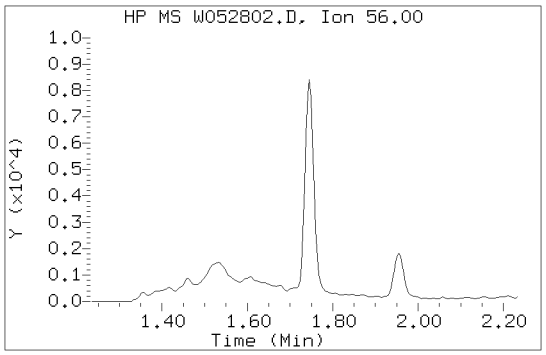
BEFORE

MASS
56
AREA
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HEIGHT
0
22-Jun-2024
11:25
RUCHA
PATEL



AFTER

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HEIGHT
0
22-Jun-2024
11:25
RUCHA
PATEL



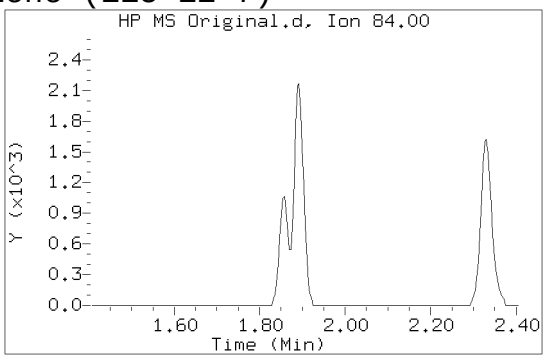
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LabSampID : VSTD050

Isobutylene (115-11-7)

Reason Code:

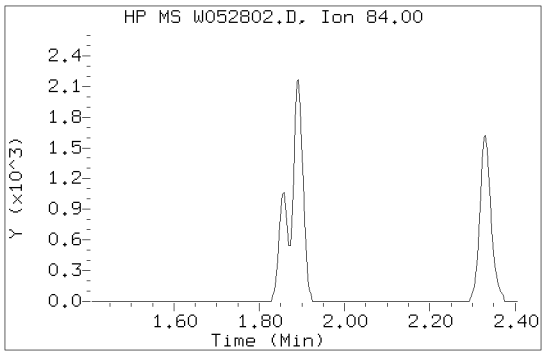
BEFORE

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22-Jun-2024
11:25
RUCHA
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AFTER

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AREA
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HEIGHT
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22-Jun-2024
11:25
RUCHA
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Data File: \\NAHSTWS005\Target\chem\voa9.i\U240529.b\W052803.D Page 1
Report Date: 22-Jun-2024 11:25

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\W052803.D
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Inj Date : 30-MAY-2024 03:50
Operator : FT Inst ID: VOA9.i
Smp Info : VLCSW-240529;VLCSW-240529;3;;LCS
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240529.b\8260C.m
Meth Date : 22-Jun-2024 11:25 VOA9.i Quant Type: ISTD
Cal Date : 29-MAY-2024 13:53 Cal File: U052911.D
Als bottle: 46 QC Sample: LCS
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	4.811	4.811	(1.000)	241851	50.0000	
2 Dichlorodifluoromethane	85	1.160	1.160	(0.241)	18637	20.6710	20.67
3 Chloromethane	50	1.291	1.295	(0.268)	72131	21.9627	21.96
4 Propionitrile	54	4.331	4.335	(0.900)	53339	201.882	201.88(a)
5 Vinyl Chloride	62	1.370	1.374	(0.285)	35669	19.5303	19.53
6 Bromomethane	94	1.602	1.606	(0.333)	16629	19.6508	19.65
7 Chloroethane	64	1.689	1.692	(0.351)	25849	20.3859	20.38
8 Trichlorofluoromethane	101	1.887	1.891	(0.392)	45807	21.1208	21.12
9 Acrolein	56	2.255	2.262	(0.469)	3985	46.2705	46.27
10 Acetone	43	2.401	2.408	(0.499)	26716	35.4018	35.40
11 1,1-Dichloroethene	96	2.326	2.330	(0.483)	29502	18.5044	18.50
12 Isobutyl Alcohol	43	5.280	5.280	(1.097)	104513	409.319	409.31(a)
13 Acetonitrile	39	2.663	2.667	(0.554)	38484	196.163	196.16(a)
14 Allyl Chloride	41	2.667	2.671	(0.554)	94028	20.0110	20.01(a)
15 Iodomethane	142	2.461	2.465	(0.512)	16120	88.0318	88.03
16 Acrylonitrile	53	3.061	3.064	(0.636)	26580	39.5421	39.54
17 Methylene Chloride	84	2.787	2.791	(0.579)	39029	20.3317	20.33
18 Methyl tert-butyl ether	73	3.076	3.079	(0.639)	88726	19.8240	19.82
19 Carbon Disulfide	76	2.513	2.517	(0.522)	161874	36.1937	36.19
20 trans-1,2-Dichloroethene	96	3.053	3.053	(0.635)	32066	17.7867	17.78

21 Vinyl Acetate	43	4.335	4.339 (0.901)	39778	37.3219	37.32
22 1,1-Dichloroethane	63	3.507	3.511 (0.729)	62451	18.0324	18.03

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240529.b\W052803.D Page 2
Report Date: 22-Jun-2024 11:25

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
23	Chloroprene	53	3.601	3.604	(0.748)	50047	19.7075	19.70
24	2-Butanone	43	4.260	4.264	(0.885)	38297	35.4337	35.43
25	Methacrylonitrile	41	4.489	4.493	(0.933)	21021	19.3437	19.34(a)
26	2,2-Dichloropropane	77	4.174	4.178	(0.868)	32525	14.3085	14.30
27	cis-1,2-Dichloroethene	96	4.189	4.193	(0.871)	38047	17.0880	17.08
28	Chloroform	83	4.568	4.568	(0.949)	64023	18.5146	18.51
29	Bromochloromethane	128	4.463	4.467	(0.928)	19601	19.2958	19.29
$ 30	Dibromofluoromethane	113	4.744	4.744	(0.986)	89623	58.1324	58.13(M)
31	1,1,1-Trichloroethane	97	4.736	4.740	(0.984)	48251	19.9251	19.92
32	1,1-Dichloropropene	75	4.916	4.920	(0.886)	47721	18.4948	18.49
33	1,2-Dichloroethane	62	5.171	5.171	(0.932)	51948	19.9607	19.96
34	Carbon Tetrachloride	117	4.905	4.909	(0.884)	36940	18.2760	18.27
$ 35	1,2-Dichloroethane-d4	65	5.092	5.096	(1.058)	109707	58.9454	58.94
* 36	1,4-Difluorobenzene	114	5.550	5.550	(1.000)	356245	50.0000	
37	Benzene	78	5.134	5.134	(0.925)	147057	17.5256	17.52
38	Trichloroethene	130	5.782	5.786	(1.042)	36974	17.9030	17.90
39	Bromodichloromethane	83	6.273	6.277	(1.130)	40227	17.8249	17.82
40	Methyl Methacrylate	41	5.820	5.820	(1.210)	14949	18.3084	18.30(a)
41	2-Chloroethylvinyl ether	63	6.573	6.573	(1.184)	22962	34.2024	34.20
42	1,2-Dichloropropane	63	6.003	6.007	(1.082)	38854	17.5566	17.55
43	2-Nitropropane	43	6.506	6.506	(1.352)	7162	18.8477	18.84
44	Dibromomethane	93	6.116	6.116	(1.102)	22517	17.5211	17.52
45	4-Methyl-2-Pentanone	43	6.851	6.851	(0.837)	78102	36.7710	36.77
46	cis-1,3-Dichloropropene	75	6.689	6.689	(1.205)	46892	16.6233	16.62
* 47	Chlorobenzene-d5	117	8.181	8.181	(1.000)	322541	50.0000	
$ 48	Toluene-d8	98	6.918	6.918	(0.846)	341726	55.5386	55.53(M)
49	Ethyl Methacrylate	69	7.285	7.289	(1.313)	44817	16.2640	16.26(a)
50	Toluene	91	6.978	6.978	(0.853)	150856	17.2302	17.23
51	trans-1,3-Dichloropropene	75	7.192	7.196	(1.296)	38270	16.7948	16.79
52	2-Hexanone	43	7.589	7.589	(0.928)	50279	37.3280	37.32
53	1,1,2-Trichloroethane	83	7.353	7.353	(0.899)	29893	19.3600	19.35
54	1,3-Dichloropropane	76	7.495	7.495	(0.916)	63962	17.9352	17.93
55	Dibromochloromethane	129	7.690	7.690	(0.940)	31132	17.3848	17.38
56	Tetrachloroethene	164	7.454	7.454	(0.911)	29045	18.9946	18.99
57	1,2-Dibromoethane	107	7.780	7.780	(0.951)	33641	17.4719	17.47
58	1-Chlorohexane	55	8.193	8.193	(1.476)	28807	19.3607	19.36
59	Chlorobenzene	112	8.208	8.208	(1.003)	98419	17.7045	17.70
60	1,1,1,2-Tetrachloroethane	131	8.279	8.283	(1.012)	32540	18.3435	18.34
61	Ethylbenzene	106	8.305	8.305	(1.015)	48691	19.2214	19.22
62	m,p-Xylenes	106	8.406	8.406	(1.027)	123141	36.9954	36.99
63	o-Xylene	106	8.744	8.744	(1.069)	60349	18.6132	18.61
64	Styrene	104	8.759	8.759	(1.071)	99171	18.5760	18.57
66	Bromoform	173	8.916	8.916	(1.090)	18200	16.2826	16.28
67	Isopropylbenzene	105	9.059	9.059	(1.107)	148000	19.2244	19.22
68	1,1,2,2-Tetrachloroethane	83	9.325	9.325	(0.917)	50422	17.3467	17.34
$ 69	4-Bromofluorobenzene	95	9.190	9.190	(1.123)	124654	55.5831	55.58(M)
* 70	1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	174869	50.0000	
71	1,2,3-Trichloropropane	75	9.358	9.359	(0.920)	46436	17.0363	17.03
72	trans-1,4-Dichloro-2-butene	53	9.373	9.374	(1.146)	8724	15.8307	15.83(a)
73	n-Propylbenzene	91	9.411	9.411	(0.926)	171739	18.2241	18.22
74	Bromobenzene	156	9.314	9.314	(0.916)	41584	17.2937	17.29
75	1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	119355	18.7313	18.73

76	2-Chlorotoluene	91	9.478	9.479 (0.932)	105213	19.1478	19.14
77	4-Chlorotoluene	91	9.572	9.572 (0.941)	124072	18.3368	18.33

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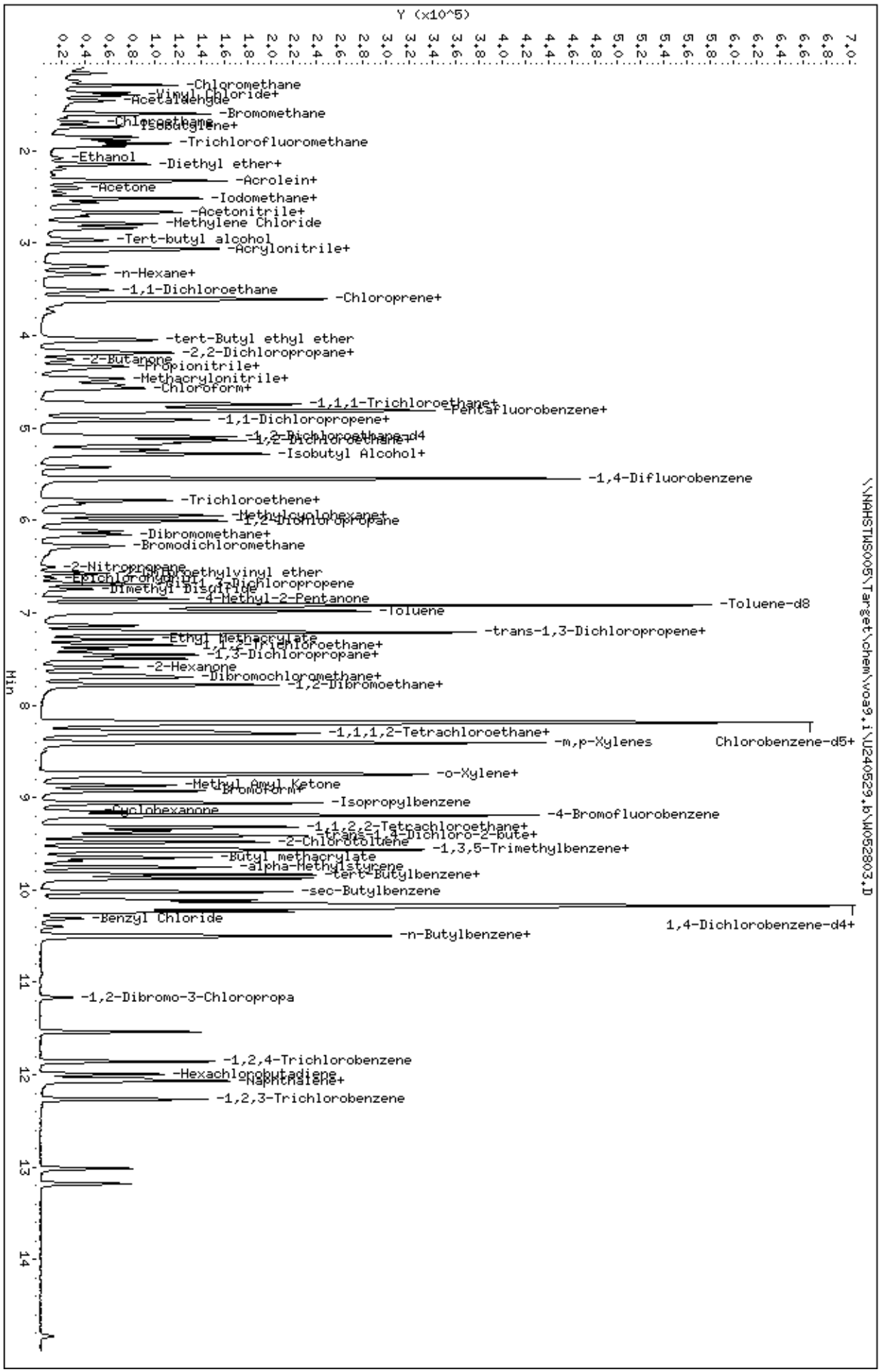
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
78	tert-Butylbenzene	119	9.835	9.835	(0.967)	104174	19.6893	19.68
79	1,2,4-Trimethylbenzene	105	9.876	9.876	(0.971)	119962	17.3021	17.30
81	sec-Butylbenzene	105	10.018	10.018	(0.985)	139260	19.3935	19.39
82	p-Isopropyltoluene	119	10.142	10.142	(0.997)	118041	18.8640	18.86
83	1,3-Dichlorobenzene	146	10.112	10.112	(0.994)	73420	18.0809	18.08(M)
84	1,4-Dichlorobenzene	146	10.187	10.187	(1.002)	78747	17.5113	17.51
86	Benzyl Chloride	91	10.311	10.307	(1.260)	24415	10.6009	10.60
87	n-Butylbenzene	91	10.491	10.491	(1.032)	101002	18.4240	18.42
88	1,2-Dichlorobenzene	146	10.502	10.502	(1.033)	74391	17.6821	17.68(M)
89	1,2-Dibromo-3-Chloropropane	155	11.165	11.165	(1.098)	5187	15.1190	15.11
90	1,2,4-Trichlorobenzene	180	11.855	11.855	(1.166)	46106	17.3925	17.39
91	Hexachlorobutadiene	225	11.994	11.994	(1.180)	19450	18.2866	18.28
92	Naphthalene	128	12.065	12.065	(1.187)	113120	17.7815	17.78
93	1,2,3-Trichlorobenzene	180	12.267	12.268	(1.206)	44106	17.8600	17.85
146	Methyl acetate	43	2.708	2.712	(0.563)	37940	19.9783	19.97
138	Freon TF	101	2.326	2.330	(0.483)	25864	19.8706	19.87
141	Cyclohexane	56	4.778	4.781	(0.993)	48001	20.5747	20.57
142	Tetrahydrofuran	42	4.538	4.541	(0.943)	14669	42.0835	42.08
147	Methylcyclohexane	55	5.943	5.943	(1.071)	79821	18.8818	18.88
135	1,4-Dioxane	88	6.165	6.165	(1.281)	8777	350.935	350.93
132	n-Butanol	56	5.820	5.820	(1.210)	19407	297.874	297.87(a)
136	n-Hexane	57	3.334	3.338	(0.693)	26249	17.0539	17.05
139	Diethyl ether	59	2.139	2.142	(0.445)	26012	20.5232	20.52
148	Tert-butyl alcohol	59	2.963	2.971	(0.616)	61873	370.035	370.03
149	Isopropyl alcohol	45	2.558	2.566	(0.532)	48516	372.972	372.97
152	Amyl alcohol	42	7.394	7.394	(0.904)	22297	334.290	334.29
156	Diisopropyl ether	45	3.615	3.619	(0.751)	115511	18.7059	18.70
162	Butyl acrylate	55	8.732	8.729	(1.067)	57096	17.5451	17.54
187	n-Amyl acetate	43	8.927	8.927	(1.091)	62063	17.7213	17.72
164	Dicyclopentadiene	66	10.194	10.198	(1.003)	165360	18.4370	18.43
166	1,2,3-Trimethylbenzene	105	10.232	10.232	(1.006)	110776	18.6418	18.64
167	Ethanol	45	2.079	2.086	(0.432)	9973	407.824	407.82
172	tert-Butyl formate	59	5.239	5.239	(1.089)	60620	31.7313	31.73
173	3,3-Dimethyl-1-butanol	57	7.780	7.780	(0.951)	72645	323.589	323.58
174	tert-Amyl methyl ether	73	5.280	5.284	(1.097)	99543	17.5901	17.59
175	tert-Butyl ethyl ether	59	4.043	4.047	(0.840)	99704	18.0250	18.02
176	tert-Amyl alcohol	59	5.239	5.239	(1.089)	60620	313.663	313.66
151	4-Methyl-2-pentanol	45	7.214	7.214	(1.300)	200070	360.095	360.09
140	1,3-Butadiene	54	1.396	1.400	(0.290)	17763	19.8506	19.85
182	Epichlorohydrin	57	6.629	6.630	(1.195)	8035	68.1899	68.18
M 94	1,2-Dichloroethylene (total)	96				70113	34.8012	34.80
M 95	Xylenes (total)	106				183490	56.7010	56.70
145	alpha-Methylstyrene	118	9.752	9.752	(0.959)	46279	17.9983	17.99
130	Ethyl Acetate	43	4.335	4.339	(0.901)	39778	17.8572	17.85
131	Methyl Acrylate	55	4.365	4.365	(0.907)	41974	19.0567	19.05
189	n-Butyl acetate	43	7.702	7.702	(0.941)	56987	16.8298	16.82
134	Cyclohexanone	55	9.152	9.149	(0.900)	29730	308.732	308.73(a)
185	Isoprene	39	2.150	2.154	(0.447)	7651	20.6089	20.60
188	Isopropyl acetate	43	5.280	5.280	(0.951)	105424	17.8353	17.83
150	Allyl alcohol	57	3.334	3.338	(0.693)	26249	341.078	341.07
194	Acetaldehyde	44	1.456	1.460	(0.303)	30662	77.9031	77.90(M)
195	Methyl Amyl Ketone	43	8.864	8.864	(1.083)	66699	16.9754	16.97

200 Dimethyl Disulfide	94	6.742	6.742 (0.824)	16699	14.7200	14.72
202 Isobutylene	41	1.741	1.745 (0.362)	15959	21.5914	21.59(M)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
133 Ethyl Acrylate	55	5.943	5.943	(1.235)	79821	19.3011	19.30
163 Butyl methacrylate	41	9.647	9.647	(0.949)	42991	21.2467	21.24
159 Propylene oxide	43	2.195	2.199	(0.456)	5482	39.4738	39.47
203 2-Ethylhexyl Acrylate	55	12.039	12.039	(1.184)	34791	17.5545	17.55

QC Flag Legend

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



Data File: \\NAHSTWS005\Target\chem\voa9,i\U240529,b\W052803,D
Date : 30-MAY-2024 03:50
Client ID: VLCSW-240529
Sample Info: VLCSW-240529;VLCSW-240529;3;LCS
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9,i
Operator: FT
Column diameter: 0.18

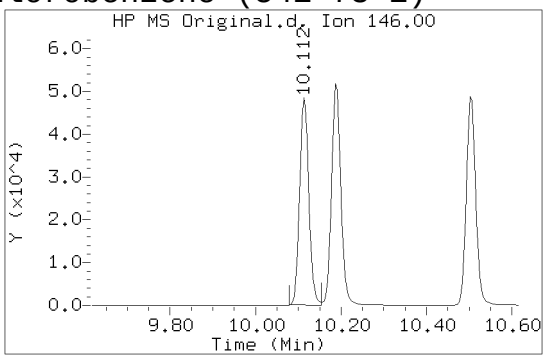
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Inj Date : 30-MAY-2024 03:50
InstruID : VOA9.i
LabSampID : VLCSW-240529

1,3-Dichlorobenzene (541-73-1)

Reason Code:

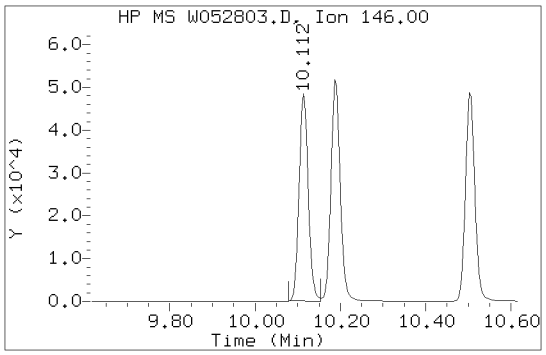
BEFORE

MASS
146
AREA
73420
HEIGHT
48455
22-Jun-2024
11:24
RUCHA
PATEL



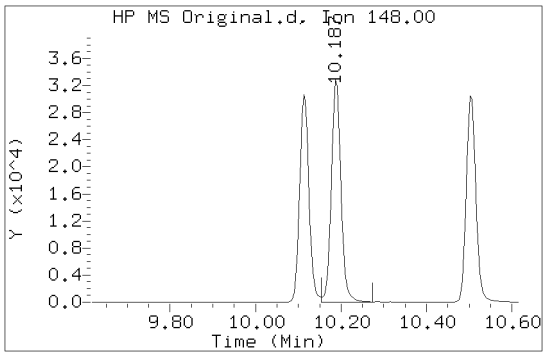
AFTER

MASS
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AREA
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HEIGHT
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22-Jun-2024
11:24
RUCHA
PATEL



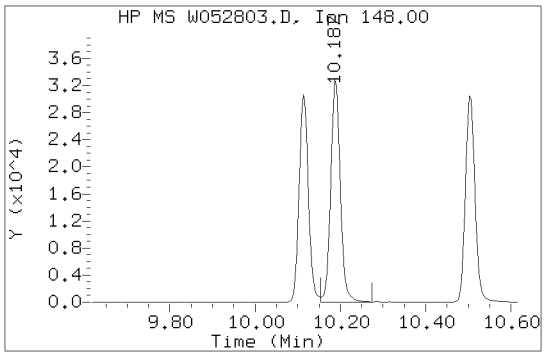
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148
AREA
51291
HEIGHT
32840
22-Jun-2024
11:24
RUCHA
PATEL



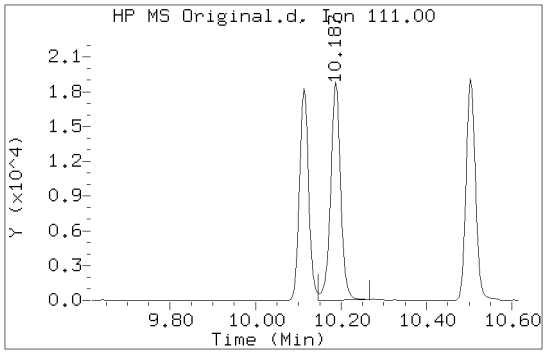
AFTER

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51291
HEIGHT
32840
22-Jun-2024
11:24
RUCHA
PATEL



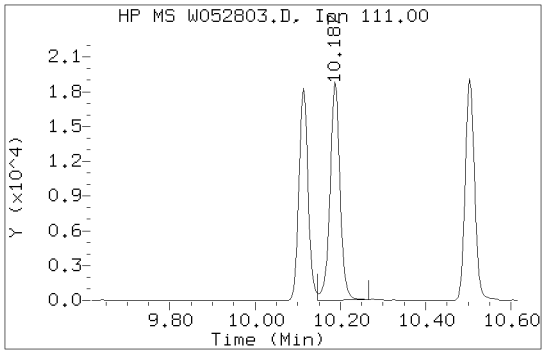
BEFORE

MASS
111
AREA
30563
HEIGHT
18842
22-Jun-2024
11:24
RUCHA
PATEL



AFTER

MASS
111
AREA
30563
HEIGHT
18842
22-Jun-2024
11:24
RUCHA
PATEL

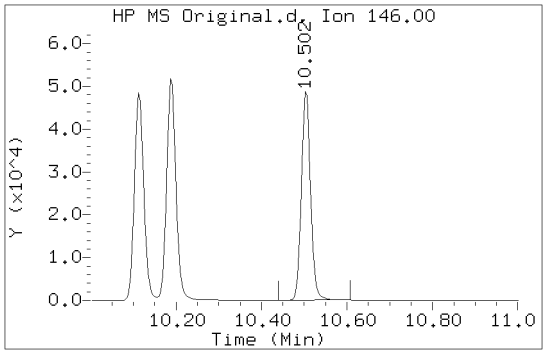


1,2-Dichlorobenzene (95-50-1)

Reason Code:

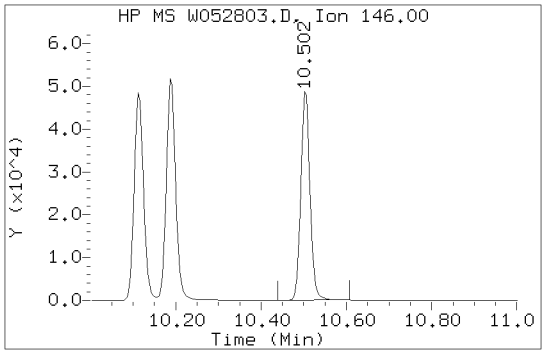
BEFORE

MASS
146
AREA
74391
HEIGHT
48759
22-Jun-2024
11:24
RUCHA
PATEL



AFTER

MASS
146
AREA
74391
HEIGHT
48759
22-Jun-2024
11:24
RUCHA
PATEL



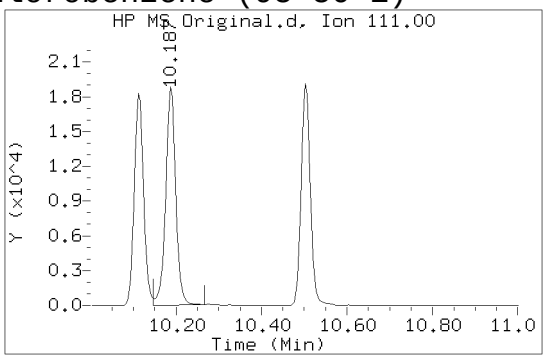
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Inj Date : 30-MAY-2024 03:50
InstruID : VOA9.i
LabSampID : VLCSW-240529

1,2-Dichlorobenzene (95-50-1)

Reason Code:

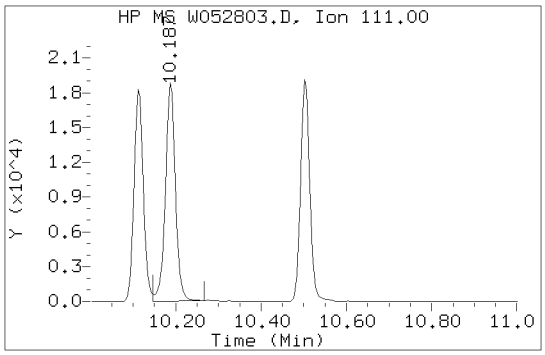
BEFORE

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HEIGHT
18842
22-Jun-2024
11:24
RUCHA
PATEL



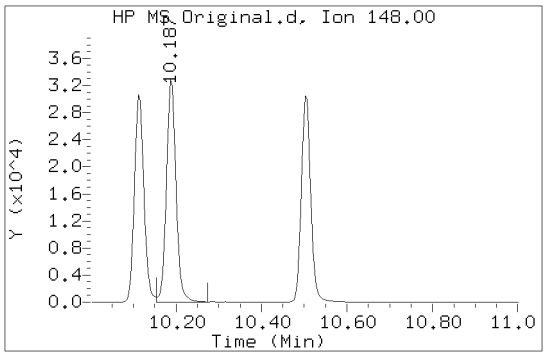
AFTER

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18842
22-Jun-2024
11:24
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PATEL



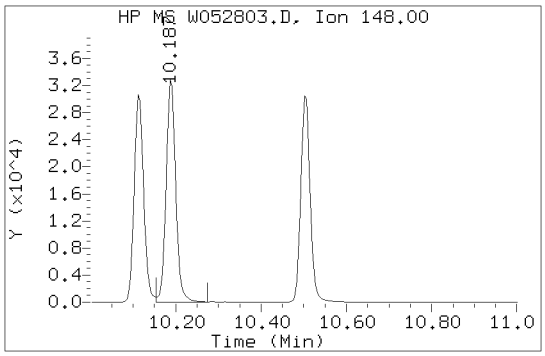
BEFORE

MASS
148
AREA
51291
HEIGHT
32840
22-Jun-2024
11:24
RUCHA
PATEL



AFTER

MASS
148
AREA
51291
HEIGHT
32840
22-Jun-2024
11:24
RUCHA
PATEL

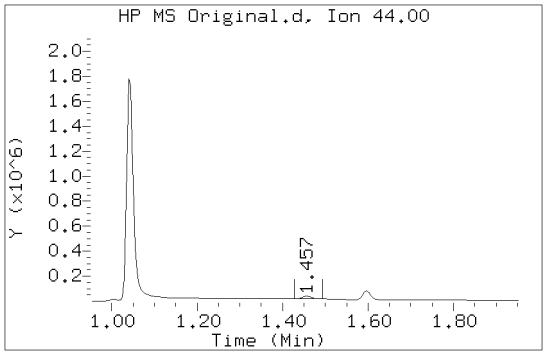


Acetaldehyde (75-07-0)

Reason Code:

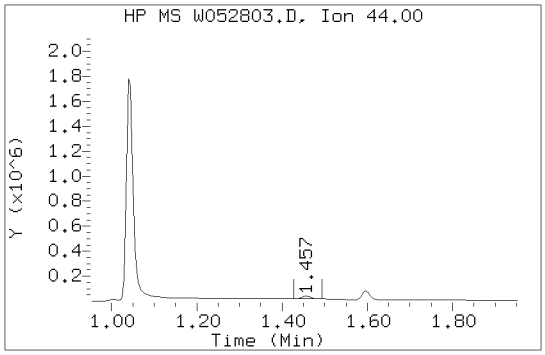
BEFORE

MASS
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HEIGHT
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22-Jun-2024
11:24
RUCHA
PATEL



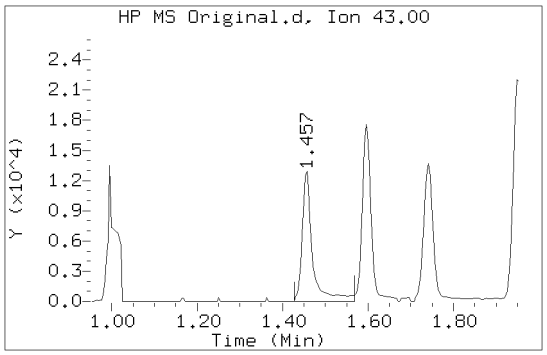
AFTER

MASS
44
AREA
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HEIGHT
22041
22-Jun-2024
11:24
RUCHA
PATEL



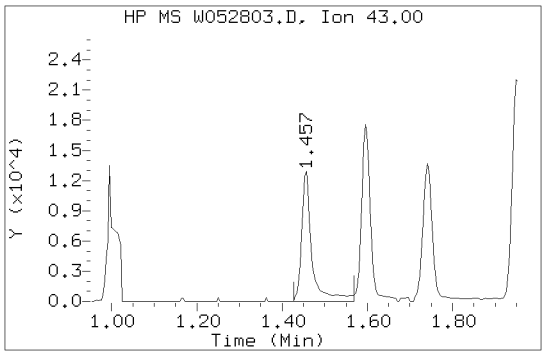
BEFORE

MASS
43
AREA
22262
HEIGHT
12905
22-Jun-2024
11:24
RUCHA
PATEL



AFTER

MASS
43
AREA
22262
HEIGHT
12905
22-Jun-2024
11:24
RUCHA
PATEL



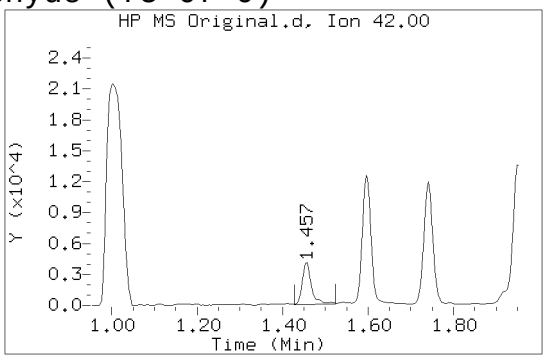
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Inj Date : 30-MAY-2024 03:50
InstruID : VOA9.i
LabSampID : VLCSW-240529

Acetaldehyde (75-07-0)

Reason Code:

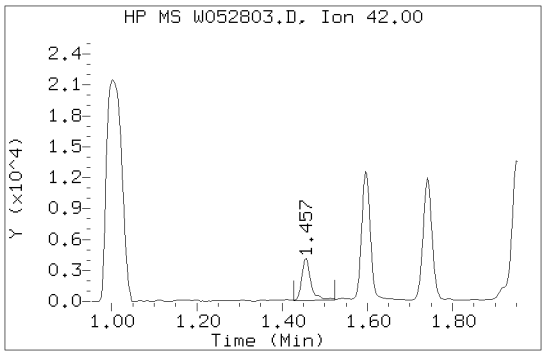
BEFORE

MASS
42
AREA
6199
HEIGHT
4069
22-Jun-2024
11:24
RUCHA
PATEL



AFTER

MASS
42
AREA
6199
HEIGHT
4069
22-Jun-2024
11:24
RUCHA
PATEL

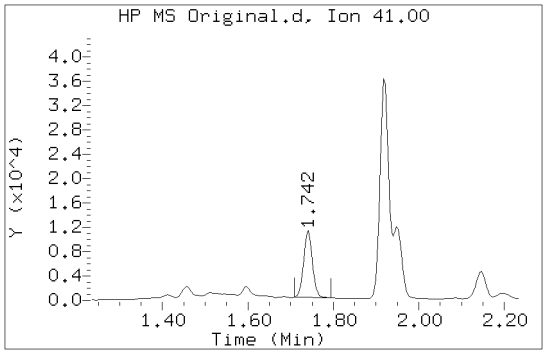


Isobutylene (115-11-7)

Reason Code:

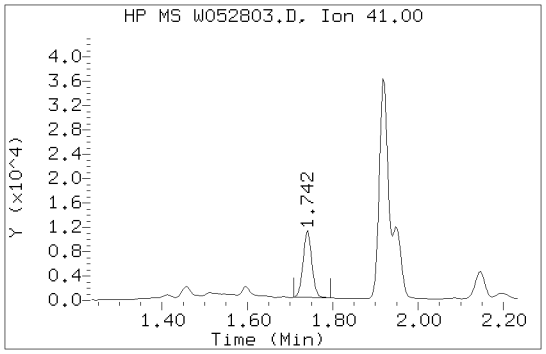
BEFORE

MASS
41
AREA
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HEIGHT
11023
22-Jun-2024
11:24
RUCHA
PATEL



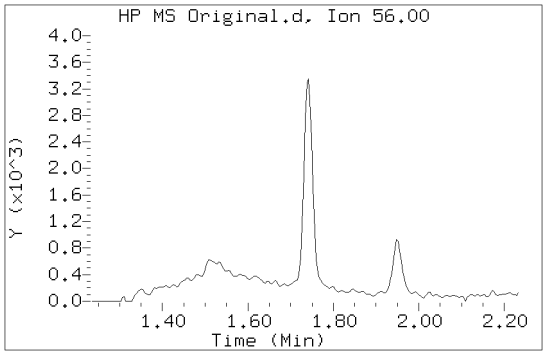
AFTER

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AREA
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HEIGHT
11023
22-Jun-2024
11:24
RUCHA
PATEL



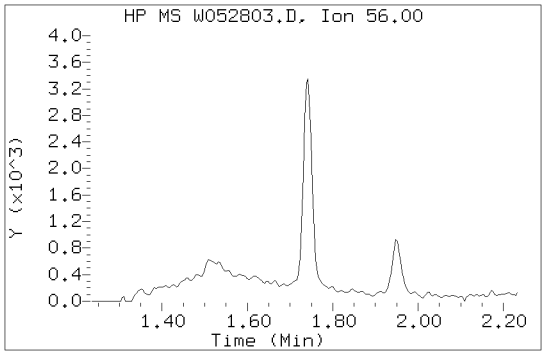
BEFORE

MASS
56
AREA
0
HEIGHT
0
22-Jun-2024
11:24
RUCHA
PATEL



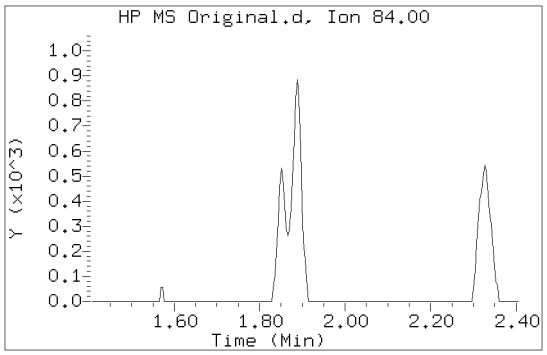
AFTER

MASS
56
AREA
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HEIGHT
0
22-Jun-2024
11:24
RUCHA
PATEL



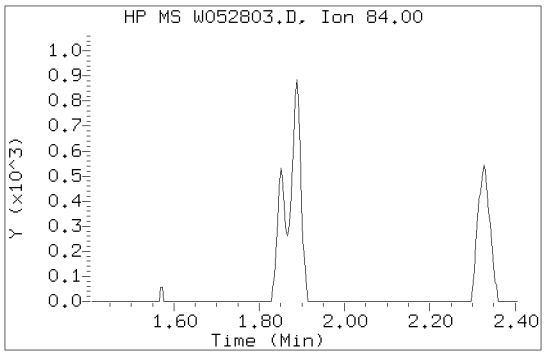
BEFORE

MASS
84
AREA
0
HEIGHT
0
22-Jun-2024
11:24
RUCHA
PATEL



AFTER

MASS
84
AREA
0
HEIGHT
0
22-Jun-2024
11:24
RUCHA
PATEL



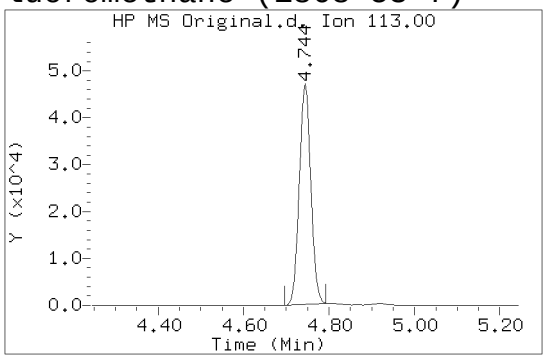
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Inj Date : 30-MAY-2024 03:50
InstruID : VOA9.i
LabSampID : VLCSW-240529

Dibromofluoromethane (1868-53-7)

Reason Code:

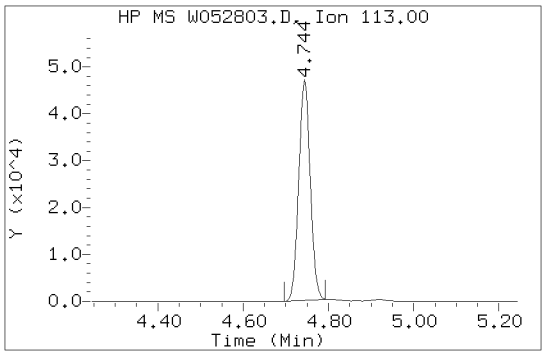
BEFORE

MASS
113
AREA
89623
HEIGHT
47034
22-Jun-2024
11:24
RUCHA
PATEL



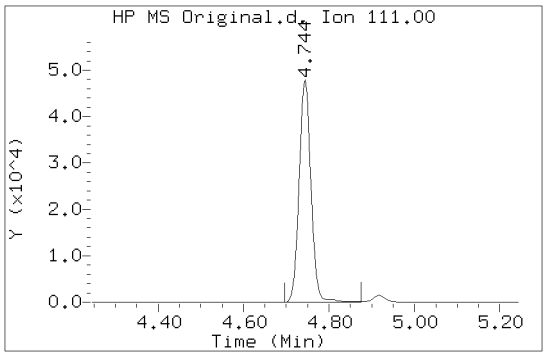
AFTER

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AREA
89623
HEIGHT
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11:24
RUCHA
PATEL



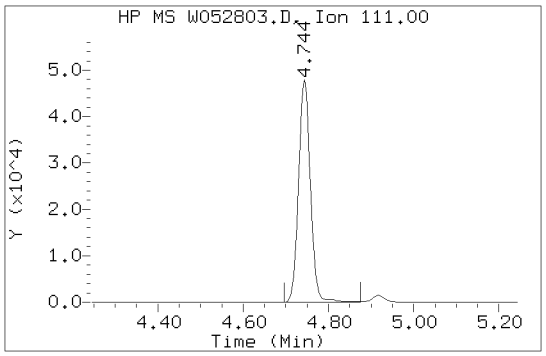
BEFORE

MASS
111
AREA
94003
HEIGHT
47904
22-Jun-2024
11:24
RUCHA
PATEL



AFTER

MASS
111
AREA
94003
HEIGHT
47904
22-Jun-2024
11:24
RUCHA
PATEL

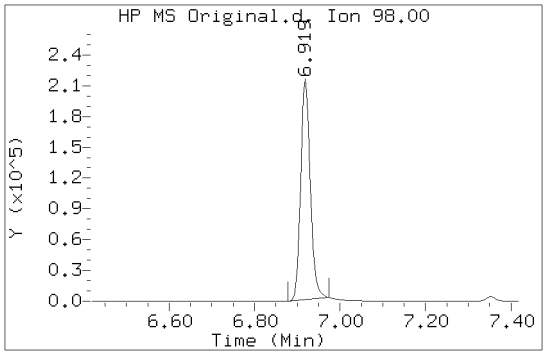


Toluene-d8 (2037-26-5)

Reason Code:

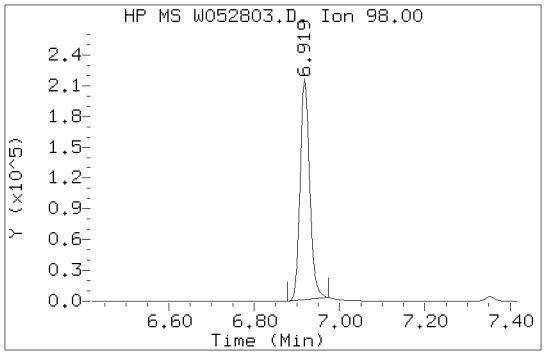
BEFORE

MASS
98
AREA
341726
HEIGHT
215117
22-Jun-2024
11:24
RUCHA
PATEL



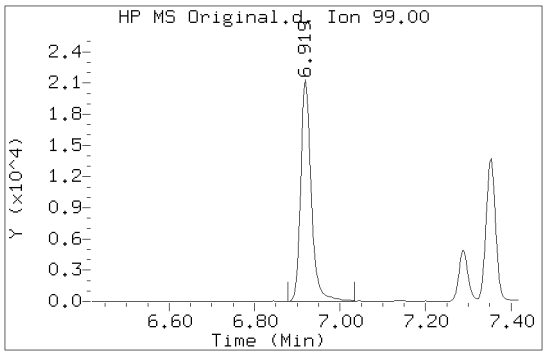
AFTER

MASS
98
AREA
341726
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215117
22-Jun-2024
11:24
RUCHA
PATEL



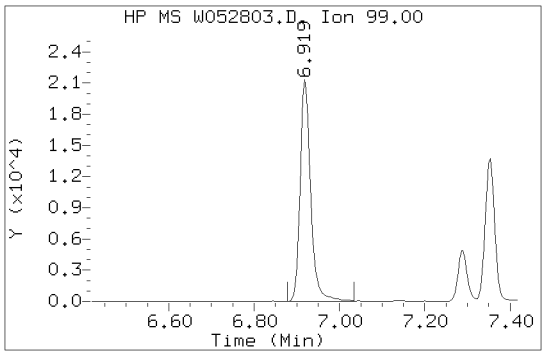
BEFORE

MASS
99
AREA
37284
HEIGHT
21320
22-Jun-2024
11:24
RUCHA
PATEL



AFTER

MASS
99
AREA
37284
HEIGHT
21320
22-Jun-2024
11:24
RUCHA
PATEL



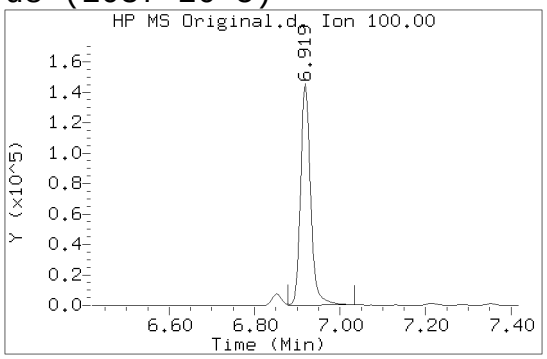
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Inj Date : 30-MAY-2024 03:50
InstruID : VOA9.i
LabSampID : VLCSW-240529

Toluene-d8 (2037-26-5)

Reason Code:

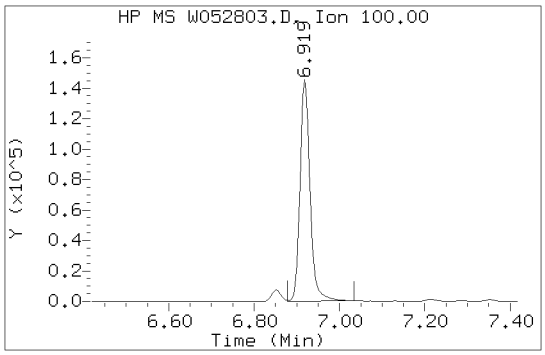
BEFORE

MASS
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AREA
242039
HEIGHT
145541
22-Jun-2024
11:24
RUCHA
PATEL



AFTER

MASS
100
AREA
242039
HEIGHT
145541
22-Jun-2024
11:24
RUCHA
PATEL

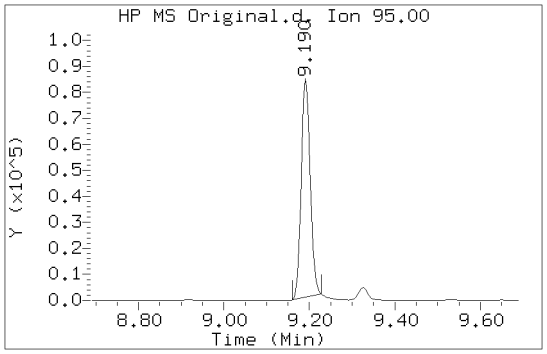


4-Bromofluorobenzene (460-00-4)

Reason Code:

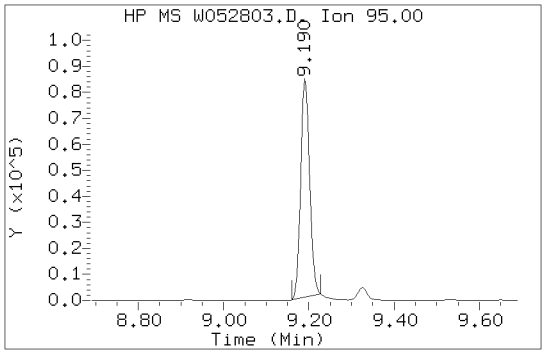
BEFORE

MASS
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AREA
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HEIGHT
84028
22-Jun-2024
11:24
RUCHA
PATEL



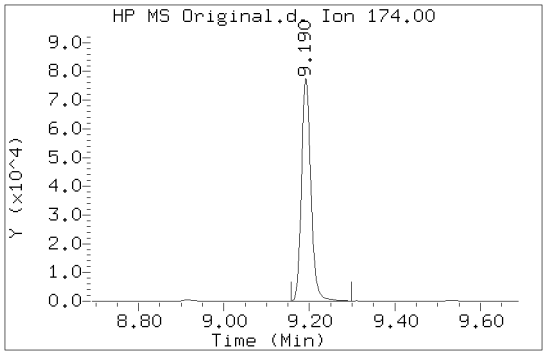
AFTER

MASS
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HEIGHT
84028
22-Jun-2024
11:24
RUCHA
PATEL



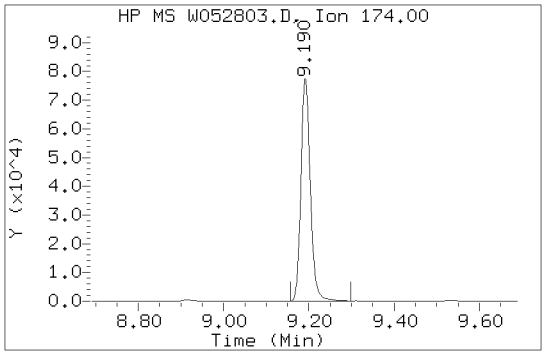
BEFORE

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AREA
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HEIGHT
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22-Jun-2024
11:24
RUCHA
PATEL



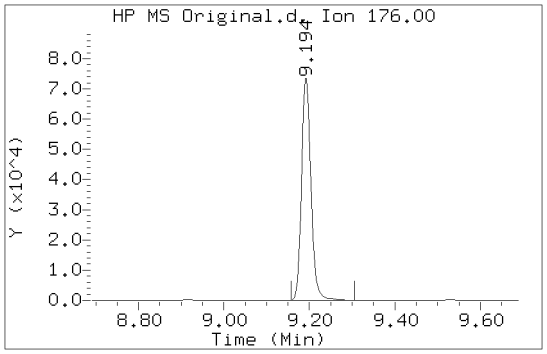
AFTER

MASS
174
AREA
120928
HEIGHT
77329
22-Jun-2024
11:24
RUCHA
PATEL



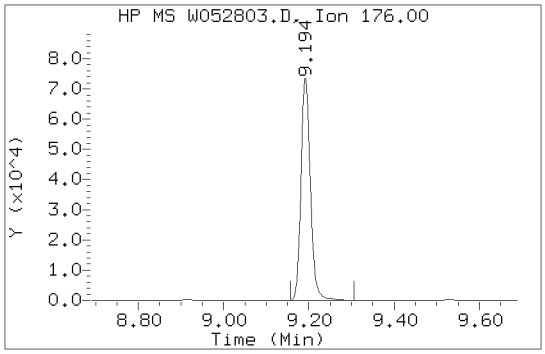
BEFORE

MASS
176
AREA
115380
HEIGHT
73384
22-Jun-2024
11:24
RUCHA
PATEL



AFTER

MASS
176
AREA
115380
HEIGHT
73384
22-Jun-2024
11:24
RUCHA
PATEL



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240529.b\W052806.D Page 1
Report Date: 22-Jun-2024 11:25

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\W052806.D
Lab Smp Id: VBLKW-240529 Client Smp ID: VBLKW-240529
Inj Date : 30-MAY-2024 04:55
Operator : FT Inst ID: VOA9.i
Smp Info : VBLKW-240529;VBLKW-240529;3;;BLANK
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240529.b\8260C.m
Meth Date : 22-Jun-2024 11:25 VOA9.i Quant Type: ISTD
Cal Date : 29-MAY-2024 13:53 Cal File: U052911.D
Als bottle: 48 QC Sample: BLANK
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	4.815	4.811	(1.000)	239080	50.0000	
$ 30 Dibromofluoromethane	113	4.748	4.744	(0.986)	85826	56.3558	56.35
$ 35 1,2-Dichloroethane-d4	65	5.096	5.096	(1.058)	107166	58.2526	58.25
* 36 1,4-Difluorobenzene	114	5.554	5.550	(1.000)	352784	50.0000	
* 47 Chlorobenzene-d5	117	8.185	8.181	(1.000)	319606	50.0000	
$ 48 Toluene-d8	98	6.922	6.918	(0.846)	340067	55.7756	55.77
$ 69 4-Bromofluorobenzene	95	9.190	9.190	(1.123)	121224	54.5482	54.54
* 70 1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	164930	50.0000	

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240529.b\W052806.D

Date : 30-MAY-2024 04:55

Client ID: VBLKW-240529

Instrument: VOA9.i

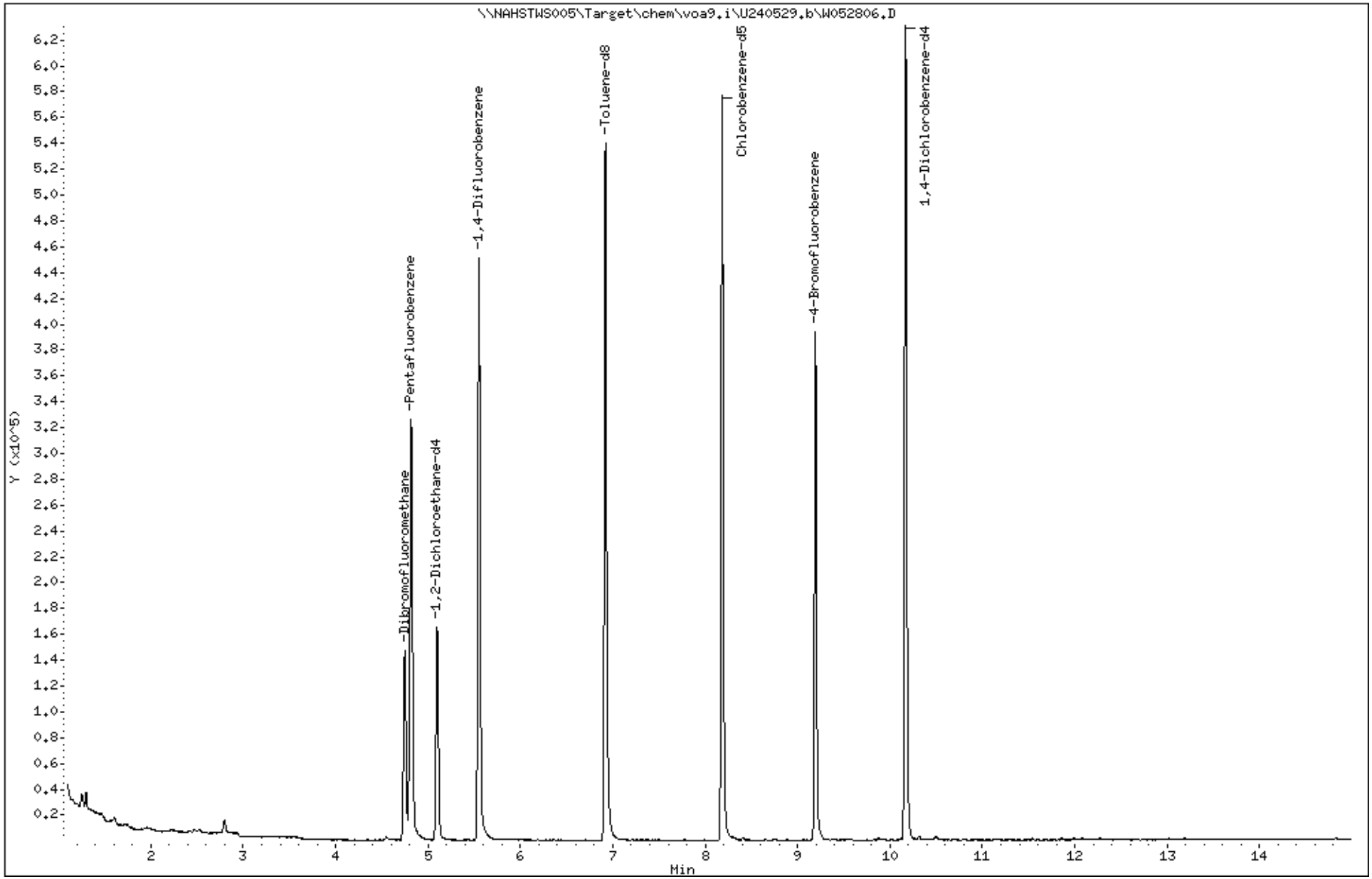
Sample Info: VBLKW-240529;VBLKW-240529;3;;BLANK

Purge Volume: 5.0

Operator: FT

Column phase: DB624

Column diameter: 0.18



Data File : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\W052806.D
Inj Date : 30-MAY-2024 04:55
InstruID : VOA9.i
LabSampID : VBLKW-240529

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240529.b\W052808.D Page 1
Report Date: 24-Jun-2024 08:31

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\W052808.D
Lab Smp Id: HS24051490-03
Inj Date : 30-MAY-2024 05:38
Operator : FT   Inst ID: VOA9.i
Smp Info : HS24051490-03
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240529.b\8260C.m
Meth Date : 24-Jun-2024 08:30 r.patel   Quant Type: ISTD
Cal Date : 29-MAY-2024 13:53   Cal File: U052911.D
Als bottle: 50
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

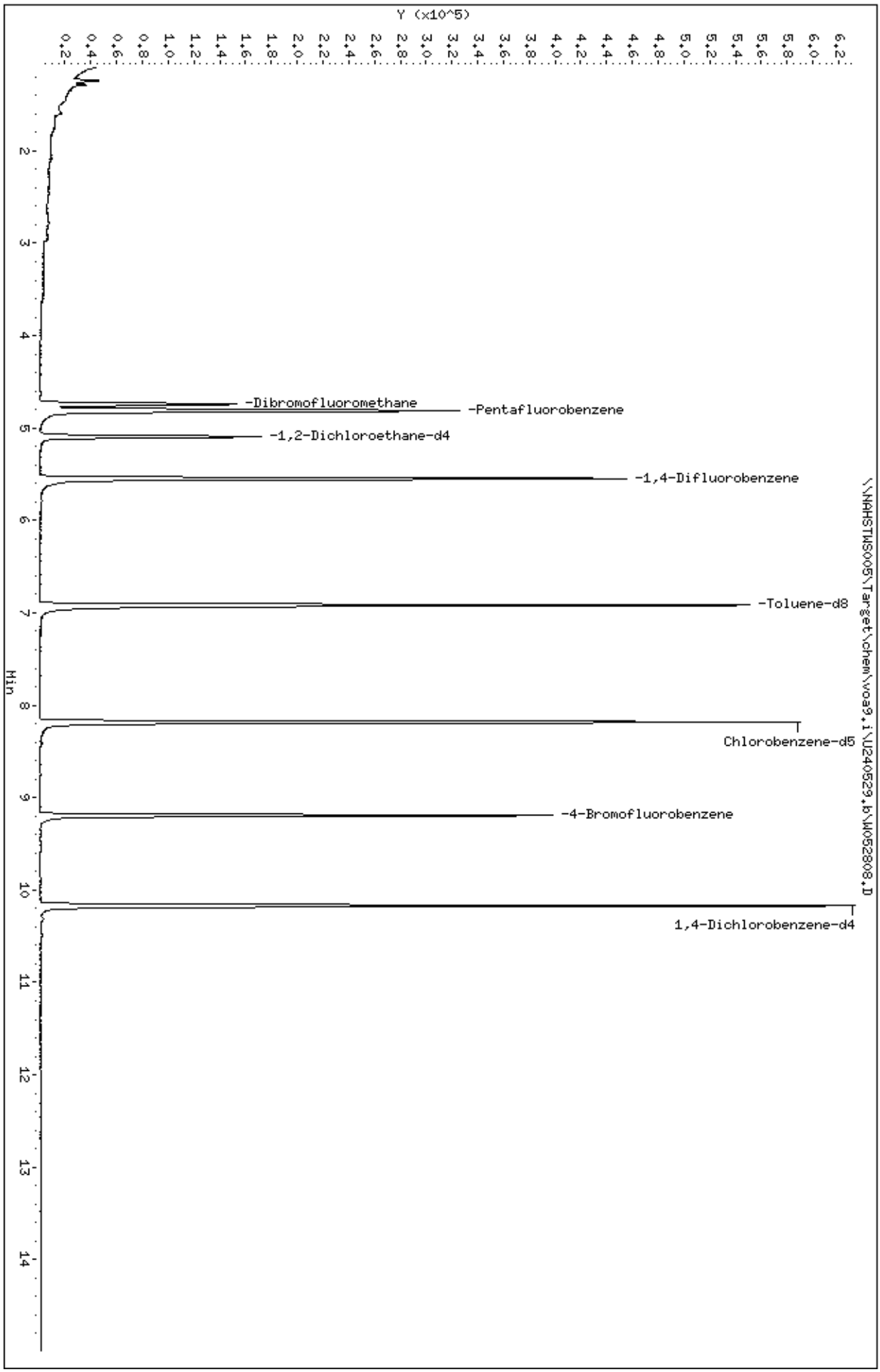
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.812	4.815	(1.000)	241711	50.0000	
$ 30 Dibromofluoromethane	113	4.744	4.748	(0.986)	89303	57.9625	57.96
$ 35 1,2-Dichloroethane-d4	65	5.093	5.100	(1.058)	109507	58.8726	58.87(M)
* 36 1,4-Difluorobenzene	114	5.550	5.554	(1.000)	361621	50.0000	
* 47 Chlorobenzene-d5	117	8.182	8.185	(1.000)	326640	50.0000	
$ 48 Toluene-d8	98	6.918	6.922	(0.846)	343930	55.1966	55.19(M)
$ 69 4-Bromofluorobenzene	95	9.190	9.190	(1.123)	127659	56.2098	56.20
* 70 1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	167096	50.0000	

QC Flag Legend

M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240529.b\W052808.D
Date : 30-MAY-2024 05:38
Client ID:
Sample Info: HS24051490-03
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9.i
Operator: FT
Column diameter: 0.18



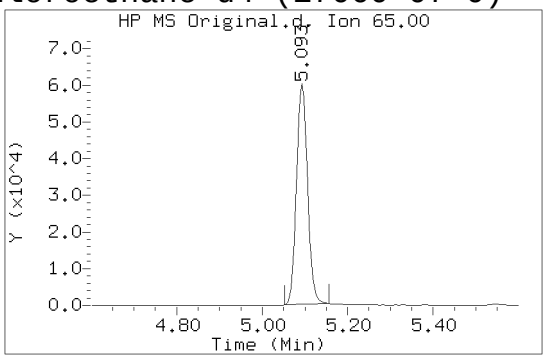
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\W052808.D
Inj Date : 30-MAY-2024 05:38
InstruID : VOA9.i
LabSampID : HS24051490-03

1,2-Dichloroethane-d4 (17060-07-0)

Reason Code:

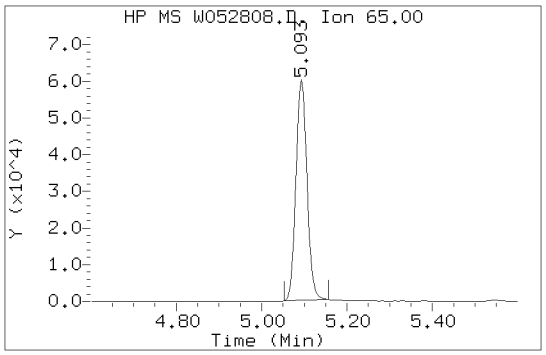
BEFORE

MASS
65
AREA
109507
HEIGHT
60186
24-Jun-2024
08:31
r
patel



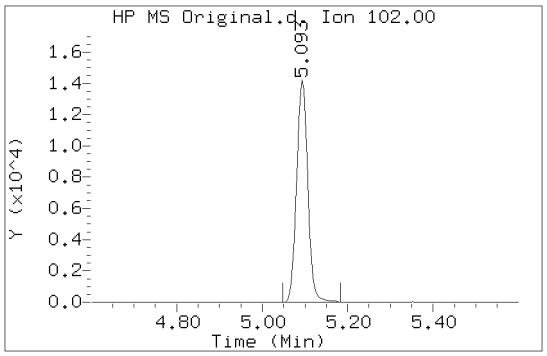
AFTER

MASS
65
AREA
109507
HEIGHT
60186
24-Jun-2024
08:31
r
patel



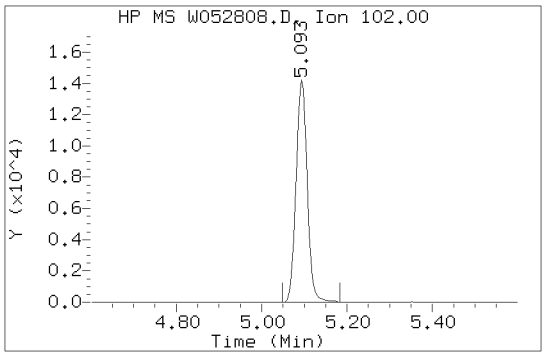
BEFORE

MASS
102
AREA
26116
HEIGHT
14224
24-Jun-2024
08:31
r
patel



AFTER

MASS
102
AREA
26116
HEIGHT
14224
24-Jun-2024
08:31
r
patel

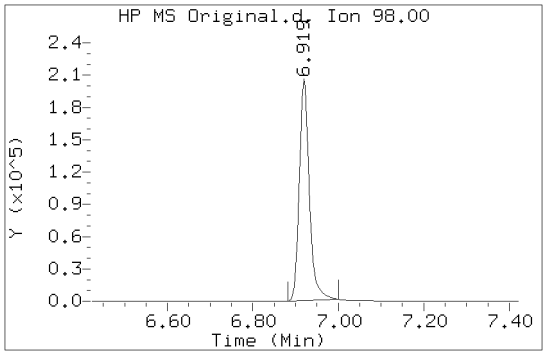


Toluene-d8 (2037-26-5)

Reason Code:

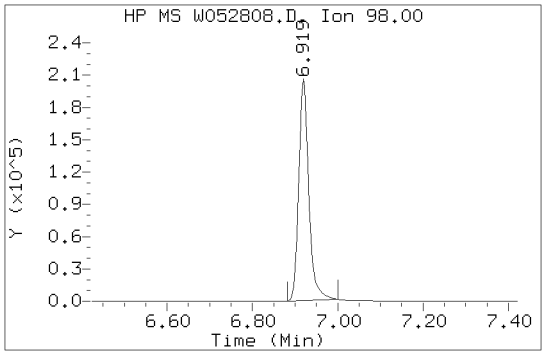
BEFORE

MASS
98
AREA
343930
HEIGHT
205951
24-Jun-2024
08:31
r
patel



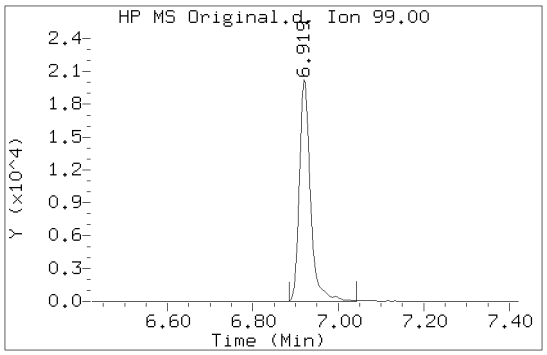
AFTER

MASS
98
AREA
343930
HEIGHT
205951
24-Jun-2024
08:31
r
patel



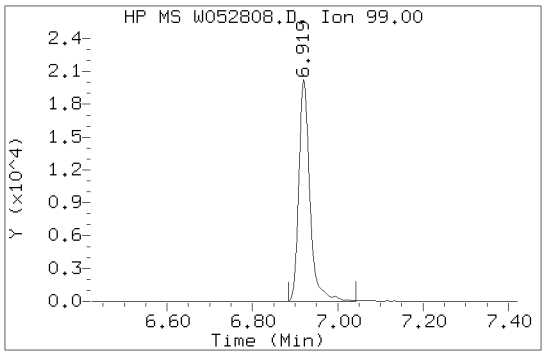
BEFORE

MASS
99
AREA
37484
HEIGHT
20240
24-Jun-2024
08:31
r
patel



AFTER

MASS
99
AREA
37484
HEIGHT
20240
24-Jun-2024
08:31
r
patel



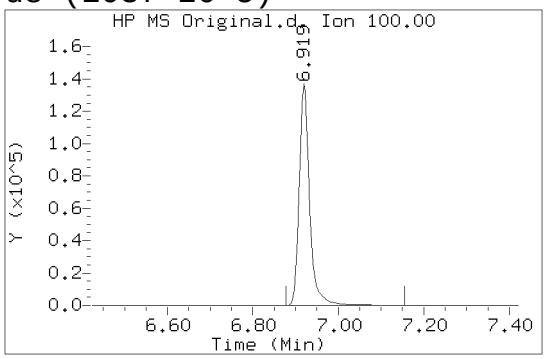
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Inj Date : 30-MAY-2024 05:38
InstruID : VOA9.i
LabSampID : HS24051490-03

Toluene-d8 (2037-26-5)

Reason Code:

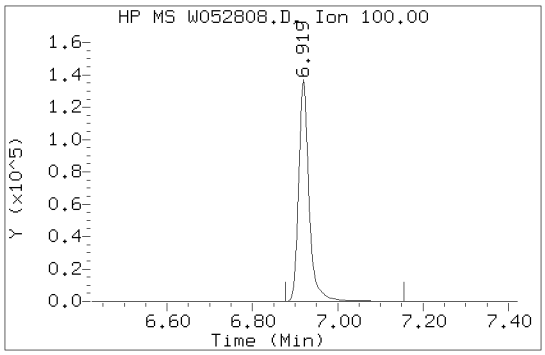
BEFORE

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100
AREA
236710
HEIGHT
137024
24-Jun-2024
08:31
r
patel



AFTER

MASS
100
AREA
236710
HEIGHT
137024
24-Jun-2024
08:31
r
patel



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240529.b\W052809.D Page 1
Report Date: 22-Jun-2024 11:25

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\W052809.D
Lab Smp Id: HS24051490-03MS Client Smp ID: HS24051490-03MS
Inj Date : 30-MAY-2024 05:59
Operator : FT Inst ID: VOA9.i
Smp Info : HS24051490-03MS;HS24051490-03MS;3;;MS
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240529.b\8260C.m
Meth Date : 22-Jun-2024 11:25 VOA9.i Quant Type: ISTD
Cal Date : 29-MAY-2024 13:53 Cal File: U052911.D
Als bottle: 51 QC Sample: MS
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	4.815	4.811	(1.000)	247550	50.0000	
2	Dichlorodifluoromethane	85	1.168	1.160	(0.243)	19303	20.9168	20.91
3	Chloromethane	50	1.299	1.295	(0.270)	77193	22.9962	22.99
4	Propionitrile	54	4.343	4.335	(0.902)	49411	182.302	182.30(a)
5	Vinyl Chloride	62	1.381	1.374	(0.287)	37408	20.0110	20.01
6	Bromomethane	94	1.614	1.606	(0.335)	15215	17.3507	17.35
7	Chloroethane	64	1.700	1.692	(0.353)	26926	20.7479	20.74
8	Trichlorofluoromethane	101	1.899	1.891	(0.394)	47965	21.6066	21.60
9	Acrolein	56	2.266	2.262	(0.471)	2440	26.5524	26.55
10	Acetone	43	2.412	2.408	(0.501)	25067	32.2919	32.29
11	1,1-Dichloroethene	96	2.333	2.330	(0.485)	31139	19.0815	19.08
12	Isobutyl Alcohol	43	5.284	5.280	(1.097)	90641	345.385	345.38(a)
13	Acetonitrile	39	2.675	2.667	(0.555)	35930	178.929	178.92(a)
14	Allyl Chloride	41	2.675	2.671	(0.555)	87536	18.1967	18.19(a)
15	Iodomethane	142	2.468	2.465	(0.513)	10809	62.8337	62.83
16	Acrylonitrile	53	3.072	3.064	(0.638)	24503	35.5317	35.53
17	Methylene Chloride	84	2.798	2.791	(0.581)	36975	18.7275	18.72
18	Methyl tert-butyl ether	73	3.083	3.079	(0.640)	81743	17.8108	17.81
19	Carbon Disulfide	76	2.521	2.517	(0.524)	161499	35.2785	35.27
20	trans-1,2-Dichloroethene	96	3.061	3.053	(0.636)	32486	17.6048	17.60

21 Vinyl Acetate	43	4.343	4.339 (0.902)	30790	28.2238	28.22
22 1,1-Dichloroethane	63	3.514	3.511 (0.730)	62340	17.5859	17.58

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240529.b\W052809.D Page 2
Report Date: 22-Jun-2024 11:25

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
23	Chloroprene	53	3.612	3.604	(0.750)	51347	19.7539	19.75
24	2-Butanone	43	4.268	4.264	(0.886)	33962	30.6994	30.69
25	Methacrylonitrile	41	4.496	4.493	(0.934)	18537	16.6635	16.66(a)
26	2,2-Dichloropropane	77	4.182	4.178	(0.868)	29445	12.6554	12.65
27	cis-1,2-Dichloroethene	96	4.197	4.193	(0.872)	38325	16.8166	16.81
28	Chloroform	83	4.575	4.568	(0.950)	63849	18.0393	18.03
29	Bromochloromethane	128	4.470	4.467	(0.928)	18892	18.1857	18.18
$ 30	Dibromofluoromethane	113	4.748	4.744	(0.986)	93192	59.0335	59.03
31	1,1,1-Trichloroethane	97	4.744	4.740	(0.985)	49682	20.0437	20.04
32	1,1-Dichloropropene	75	4.920	4.920	(0.886)	47892	18.3158	18.31
33	1,2-Dichloroethane	62	5.175	5.171	(0.932)	51914	19.6925	19.69
34	Carbon Tetrachloride	117	4.913	4.909	(0.885)	38856	18.9699	18.96
$ 35	1,2-Dichloroethane-d4	65	5.096	5.096	(1.058)	110451	57.9860	57.98
* 36	1,4-Difluorobenzene	114	5.554	5.550	(1.000)	361014	50.0000	
37	Benzene	78	5.138	5.134	(0.925)	149173	17.5429	17.54
38	Trichloroethene	130	5.790	5.786	(1.043)	37704	18.0153	18.01
39	Bromodichloromethane	83	6.277	6.277	(1.130)	38939	17.0263	17.02
40	Methyl Methacrylate	41	5.827	5.820	(1.210)	13677	16.4221	16.42(a)
42	1,2-Dichloropropane	63	6.007	6.007	(1.082)	39744	17.7216	17.72
43	2-Nitropropane	43	6.510	6.506	(1.352)	6536	17.0262	17.02
44	Dibromomethane	93	6.120	6.116	(1.102)	22238	17.0754	17.07
45	4-Methyl-2-Pentanone	43	6.851	6.851	(0.837)	73099	33.5526	33.55
46	cis-1,3-Dichloropropene	75	6.689	6.689	(1.205)	44669	15.6854	15.68
* 47	Chlorobenzene-d5	117	8.185	8.181	(1.000)	331461	50.0000	
$ 48	Toluene-d8	98	6.922	6.918	(0.846)	358121	56.6328	56.63
49	Ethyl Methacrylate	69	7.289	7.289	(1.312)	41927	15.0142	15.01(a)
50	Toluene	91	6.978	6.978	(0.853)	152889	16.9925	16.99
51	trans-1,3-Dichloropropene	75	7.196	7.196	(1.296)	35350	15.4227	15.42
52	2-Hexanone	43	7.589	7.589	(0.927)	44255	32.2615	32.26
53	1,1,2-Trichloroethane	83	7.353	7.353	(0.898)	28790	18.1258	18.12
54	1,3-Dichloropropane	76	7.495	7.495	(0.916)	61280	16.7207	16.72
55	Dibromochloromethane	129	7.690	7.690	(0.940)	30388	16.5656	16.56
56	Tetrachloroethene	164	7.454	7.454	(0.911)	30235	19.2407	19.24
57	1,2-Dibromoethane	107	7.784	7.780	(0.951)	32107	16.2265	16.22
58	1-Chlorohexane	55	8.193	8.193	(1.475)	28964	19.2030	19.20
59	Chlorobenzene	112	8.208	8.208	(1.003)	98795	17.2939	17.29
60	1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	31920	17.5098	17.50
61	Ethylbenzene	106	8.305	8.305	(1.015)	48869	18.7758	18.77
62	m,p-Xylenes	106	8.406	8.406	(1.027)	124395	36.3545	36.35
63	o-Xylene	106	8.744	8.744	(1.068)	59643	17.9313	17.93
64	Styrene	104	8.759	8.759	(1.070)	96158	17.5269	17.52
66	Bromoform	173	8.916	8.916	(1.089)	16898	14.8724	14.87
67	Isopropylbenzene	105	9.059	9.059	(1.107)	149273	18.8679	18.86
68	1,1,2,2-Tetrachloroethane	83	9.325	9.325	(0.917)	47117	15.7451	15.74
$ 69	4-Bromofluorobenzene	95	9.190	9.190	(1.123)	130140	56.4692	56.46(M)
* 70	1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	180029	50.0000	
71	1,2,3-Trichloropropane	75	9.359	9.359	(0.920)	43510	15.5053	15.50
72	trans-1,4-Dichloro-2-butene	53	9.374	9.374	(1.145)	8275	14.6119	14.61(a)
73	n-Propylbenzene	91	9.411	9.411	(0.926)	172704	17.8012	17.80
74	Bromobenzene	156	9.317	9.314	(0.916)	42168	17.0339	17.03
75	1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	117412	17.8925	17.89
76	2-Chlorotoluene	91	9.478	9.479	(0.932)	106926	18.8972	18.89

77	4-Chlorotoluene	91	9.572	9.572 (0.941)	124560	17.8813	17.88
78	tert-Butylbenzene	119	9.835	9.835 (0.967)	105349	19.3407	19.34

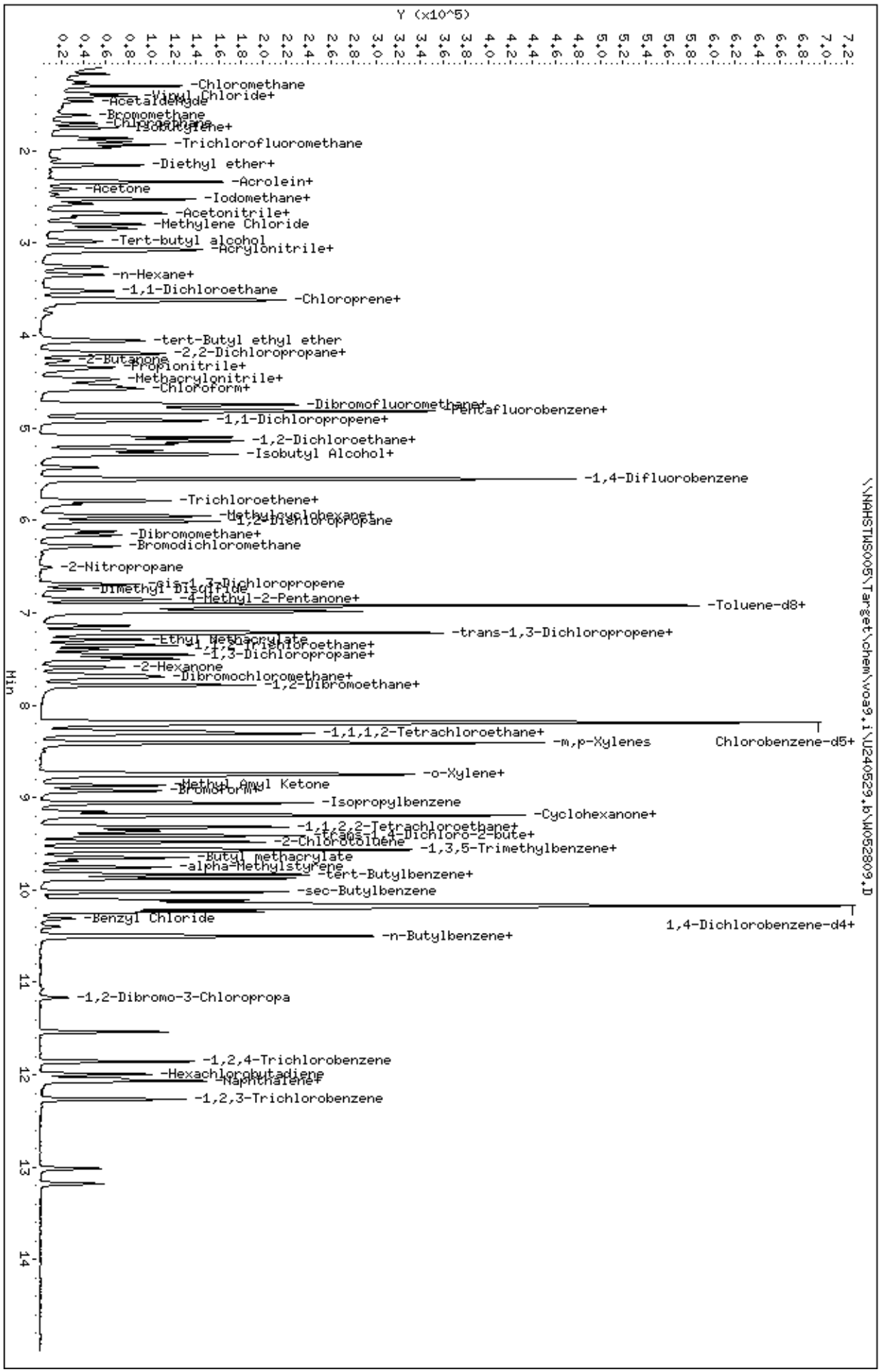
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
79	1,2,4-Trimethylbenzene	105	9.876	9.876	(0.971)	115004	15.9911	15.99
81	sec-Butylbenzene	105	10.018	10.018	(0.985)	139232	18.8339	18.83
82	p-Isopropyltoluene	119	10.146	10.142	(0.998)	116482	18.0813	18.08
83	1,3-Dichlorobenzene	146	10.112	10.112	(0.994)	70465	16.8559	16.85(M)
84	1,4-Dichlorobenzene	146	10.187	10.187	(1.002)	77242	16.6843	16.68
86	Benzyl Chloride	91	10.311	10.307	(1.260)	19135	8.37668	8.37
87	n-Butylbenzene	91	10.491	10.491	(1.032)	97023	17.2192	17.21
88	1,2-Dichlorobenzene	146	10.502	10.502	(1.033)	73621	16.9975	16.99(M)
89	1,2-Dibromo-3-Chloropropane	155	11.165	11.165	(1.098)	5124	14.5479	14.54
90	1,2,4-Trichlorobenzene	180	11.855	11.855	(1.166)	41630	15.2539	15.25
91	Hexachlorobutadiene	225	11.994	11.994	(1.180)	17938	16.3817	16.38
92	Naphthalene	128	12.065	12.065	(1.187)	99135	15.1301	15.13
93	1,2,3-Trichlorobenzene	180	12.268	12.268	(1.206)	39907	15.6965	15.69
146	Methyl acetate	43	2.720	2.712	(0.565)	28204	14.5804	14.58
138	Freon TF	101	2.337	2.330	(0.485)	26918	20.1930	20.19
141	Cyclohexane	56	4.785	4.781	(0.994)	49499	20.7356	20.73
142	Tetrahydrofuran	42	4.545	4.541	(0.944)	13022	36.2898	36.28
147	Methylcyclohexane	55	5.947	5.943	(1.071)	75241	17.6187	17.61
135	1,4-Dioxane	88	6.168	6.165	(1.281)	8419	328.042	328.04
132	n-Butanol	56	5.824	5.820	(1.209)	18711	280.579	280.57(a)
136	n-Hexane	57	3.342	3.338	(0.694)	26287	16.7025	16.70
139	Diethyl ether	59	2.150	2.142	(0.447)	24065	18.5115	18.51
148	Tert-butyl alcohol	59	2.978	2.971	(0.619)	59043	344.001	344.00
149	Isopropyl alcohol	45	2.573	2.566	(0.534)	46471	348.396	348.39
152	Amyl alcohol	42	7.398	7.394	(0.904)	21307	312.446	312.44
156	Diisopropyl ether	45	3.627	3.619	(0.753)	107167	16.9551	16.95
162	Butyl acrylate	55	8.733	8.729	(1.067)	53243	16.0207	16.02
187	n-Amyl acetate	43	8.927	8.927	(1.091)	48621	13.5095	13.50
164	Dicyclopentadiene	66	10.198	10.198	(1.003)	146278	15.8419	15.84
166	1,2,3-Trimethylbenzene	105	10.232	10.232	(1.006)	103650	17.0101	17.01
167	Ethanol	45	2.090	2.086	(0.434)	9183	365.675	365.67
172	tert-Butyl formate	59	5.242	5.239	(1.089)	56807	29.0508	29.05
173	3,3-Dimethyl-1-butanol	57	7.780	7.780	(0.951)	67546	292.779	292.77
174	tert-Amyl methyl ether	73	5.287	5.284	(1.098)	91293	15.7609	15.76
175	tert-Butyl ethyl ether	59	4.054	4.047	(0.842)	90452	15.9759	15.97
176	tert-Amyl alcohol	59	5.242	5.239	(1.089)	56807	287.167	287.16
151	4-Methyl-2-pentanol	45	7.214	7.214	(1.299)	184365	329.024	329.02
140	1,3-Butadiene	54	1.408	1.400	(0.292)	18783	20.5072	20.50
182	Epichlorohydrin	57	6.851	6.630	(1.234)	16211	131.756	131.75(M)
M 94	1,2-Dichloroethylene (total)	96				70811	34.3385	34.33
M 95	Xylenes (total)	106				184038	56.1116	56.11
145	alpha-Methylstyrene	118	9.752	9.752	(0.959)	32189	12.3874	12.38
130	Ethyl Acetate	43	4.343	4.339	(0.902)	30790	13.5041	13.50
131	Methyl Acrylate	55	4.373	4.365	(0.908)	37919	16.8177	16.81
189	n-Butyl acetate	43	7.705	7.702	(0.941)	44193	12.7002	12.70
134	Cyclohexanone	55	9.152	9.149	(0.900)	23339	238.157	238.15(a)
185	Isoprene	39	2.157	2.154	(0.448)	7962	20.9379	20.93
188	Isopropyl acetate	43	5.284	5.280	(0.951)	90641	15.1318	15.13
150	Allyl alcohol	57	3.342	3.338	(0.694)	26287	334.049	334.04
194	Acetaldehyde	44	1.464	1.460	(0.304)	18082	44.8417	44.84(M)
195	Methyl Amyl Ketone	43	8.867	8.864	(1.083)	63843	15.8113	15.81
200	Dimethyl Disulfide	94	6.742	6.742	(0.824)	14482	13.2174	13.21

202 Isobutylene	41	1.752	1.745 (0.364)	15421	20.3630	20.36(M)
133 Ethyl Acrylate	55	5.947	5.943 (1.235)	75241	17.8312	17.83

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
163 Butyl methacrylate	41	9.647	9.647	(0.949)	39216	18.8256	18.82
203 2-Ethylhexyl Acrylate	55	12.039	12.039	(1.184)	27828	13.9962	13.99

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: HS24051490-03MS;HS24051490-03MS;3;;MS
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Column phase: DB624

Instrument: VOA9.i
Operator: FT
Column diameter: 0.18

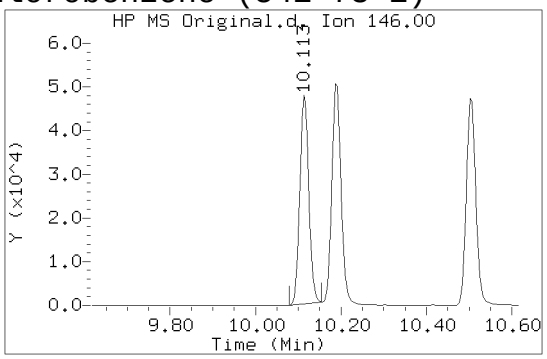
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LabSampID : HS24051490-03MS

1,3-Dichlorobenzene (541-73-1)

Reason Code:

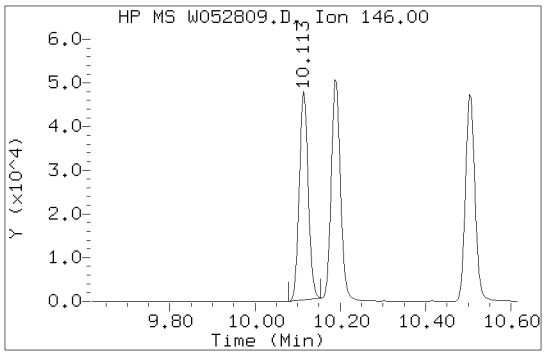
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11:24
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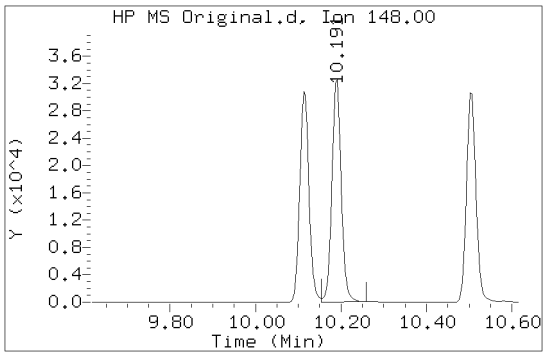
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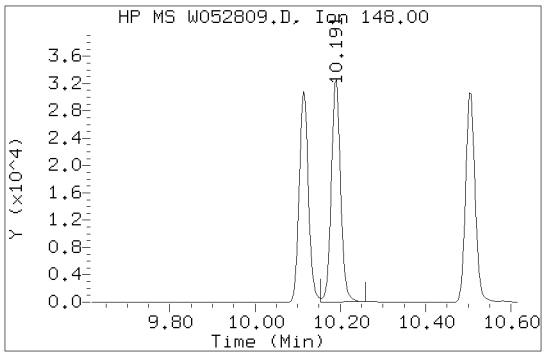
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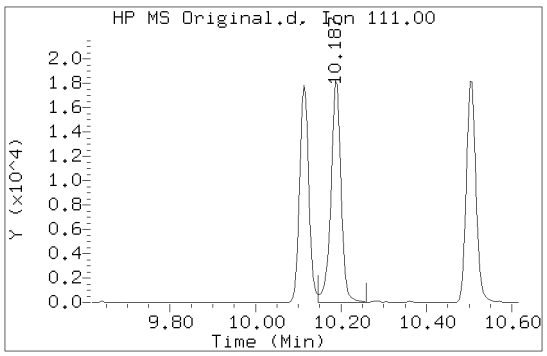
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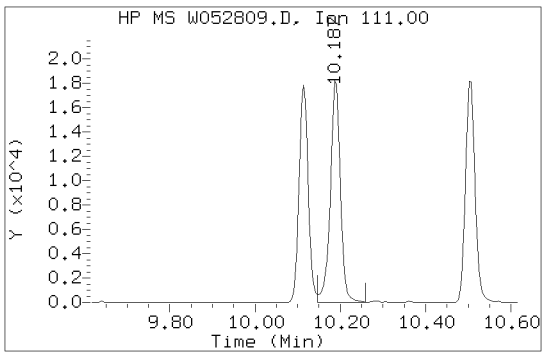
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AFTER

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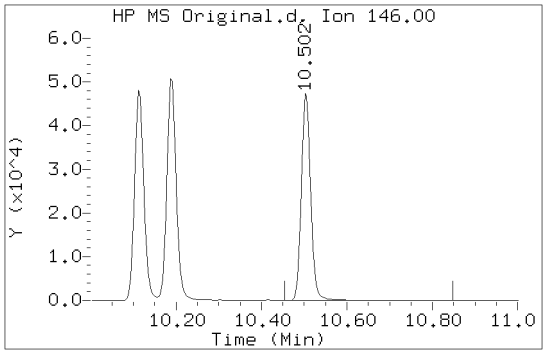


1,2-Dichlorobenzene (95-50-1)

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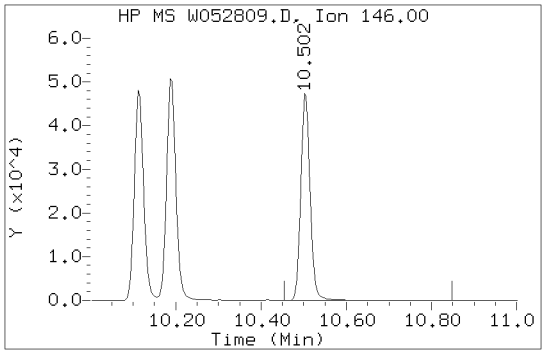
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AFTER

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11:24
RUCHA
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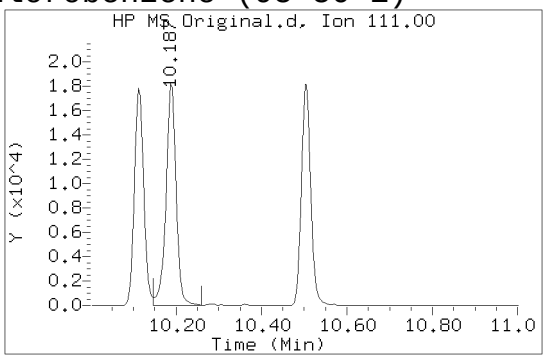
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InstruID : VOA9.i
LabSampID : HS24051490-03MS

1,2-Dichlorobenzene (95-50-1)

Reason Code:

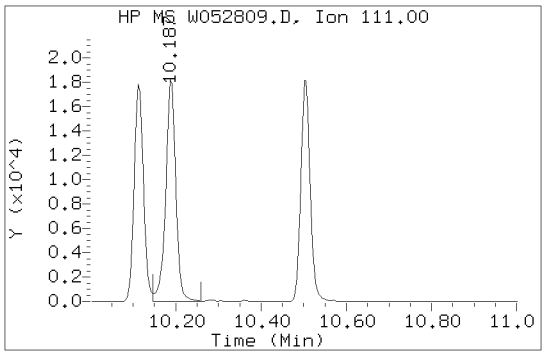
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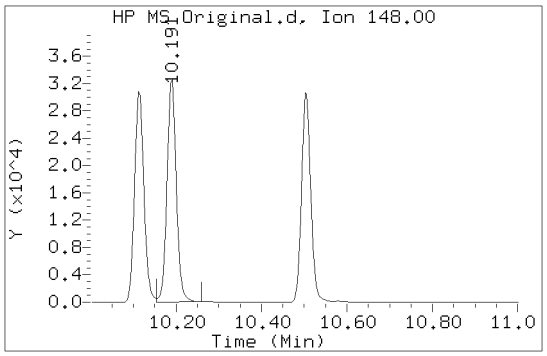
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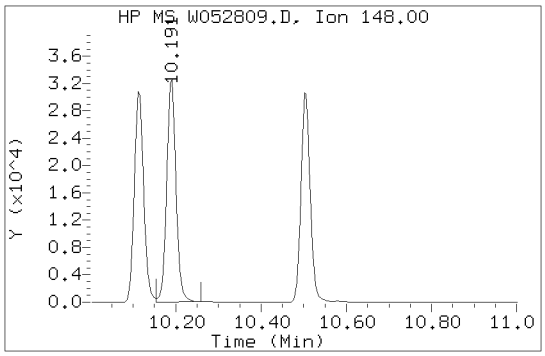
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HEIGHT
32488
22-Jun-2024
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AFTER

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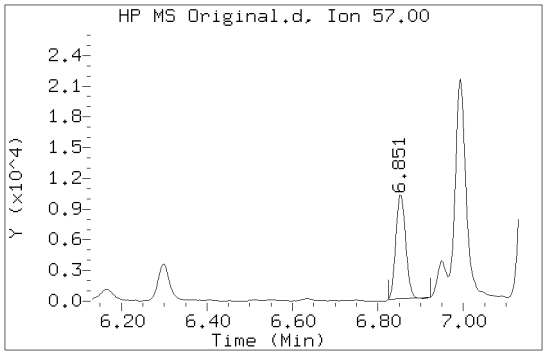


Epichlorohydrin (106-89-8)

Reason Code:

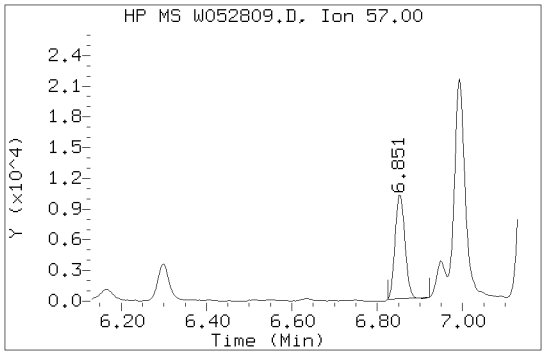
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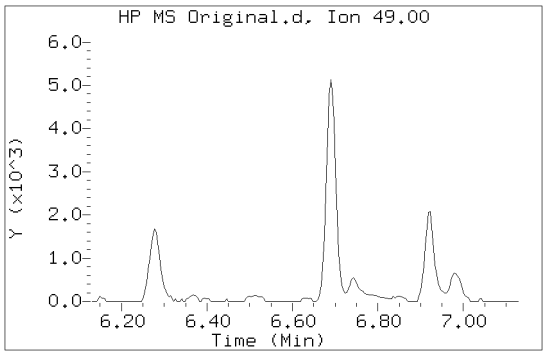
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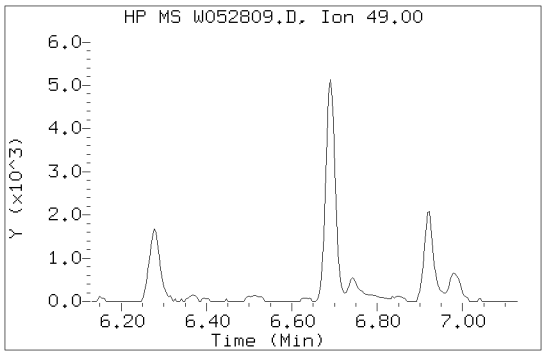
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AFTER

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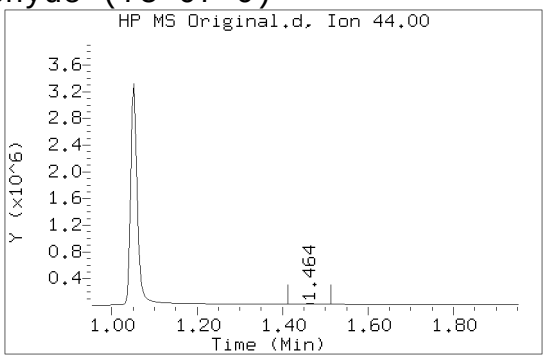
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Inj Date : 30-MAY-2024 05:59
InstruID : VOA9.i
LabSampID : HS24051490-03MS

Acetaldehyde (75-07-0)

Reason Code:

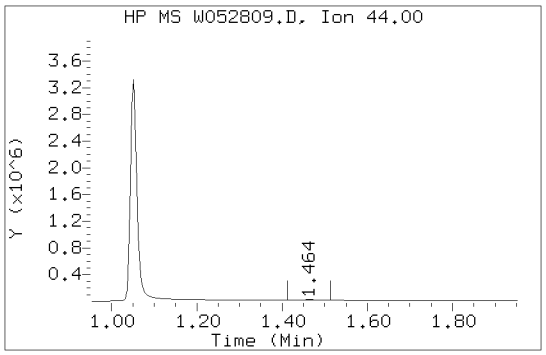
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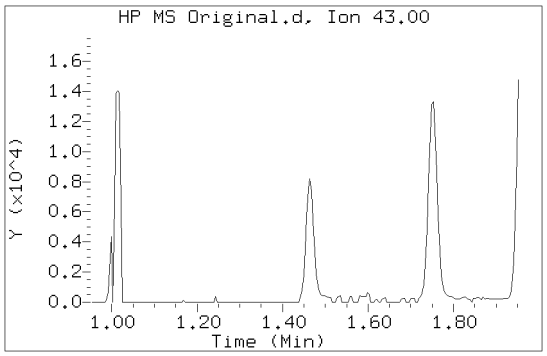
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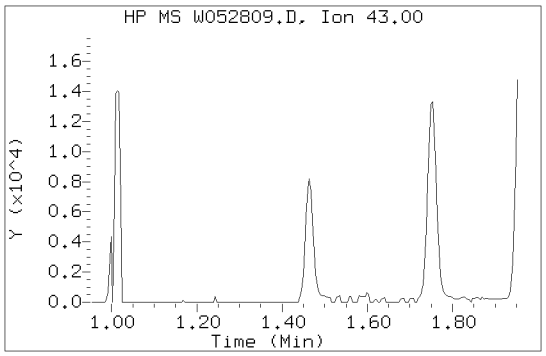
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11:24
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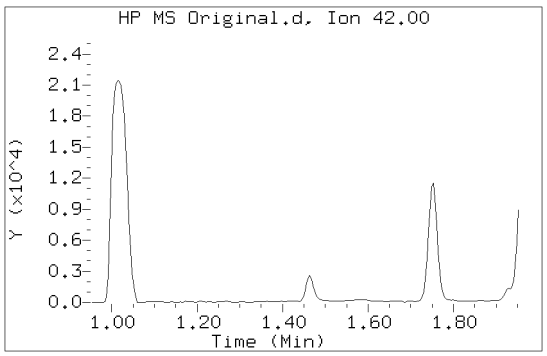
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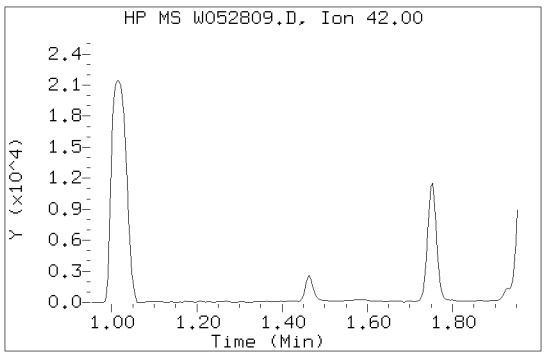
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AFTER

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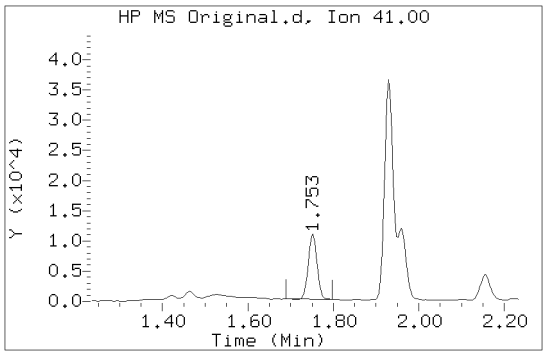


Isobutylene (115-11-7)

Reason Code:

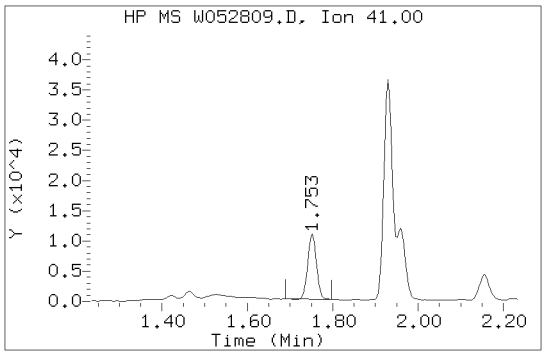
BEFORE

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10734
22-Jun-2024
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AFTER

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PATEL



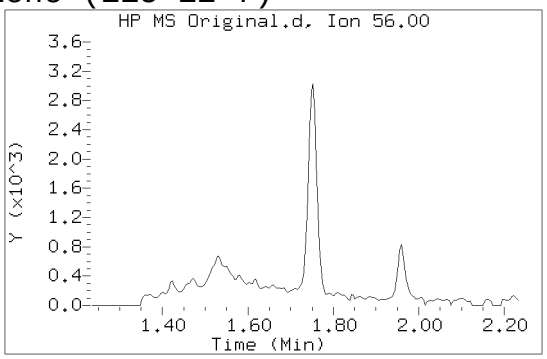
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LabSampID : HS24051490-03MS

Isobutylene (115-11-7)

Reason Code:

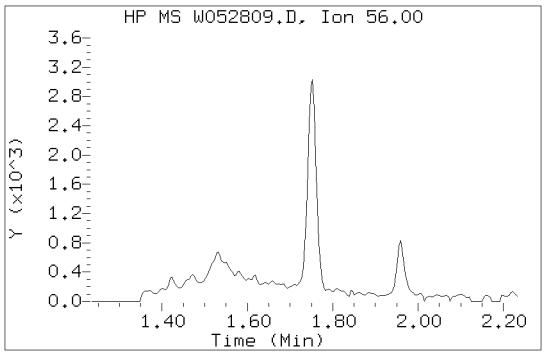
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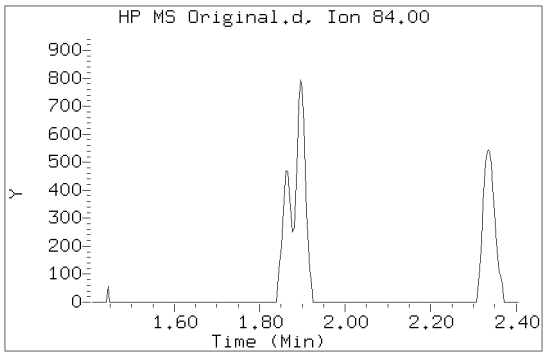
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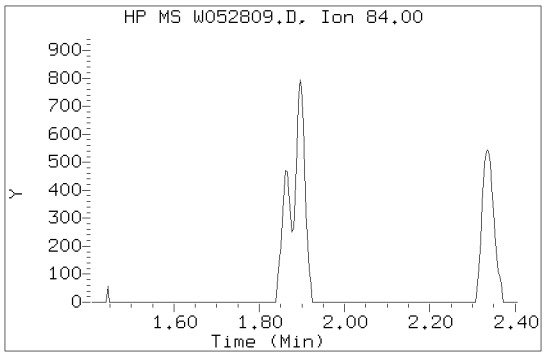
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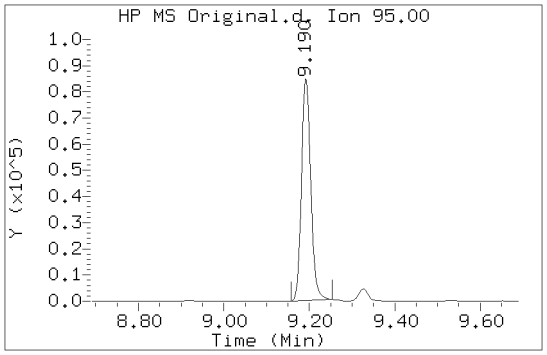


4-Bromofluorobenzene (460-00-4)

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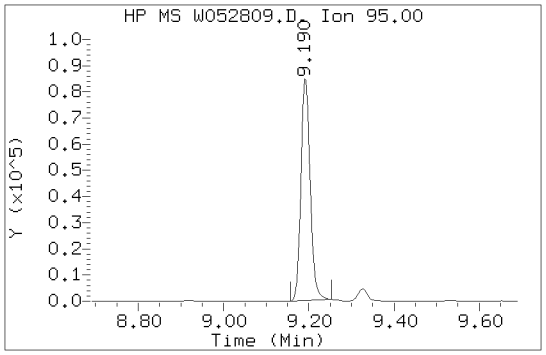
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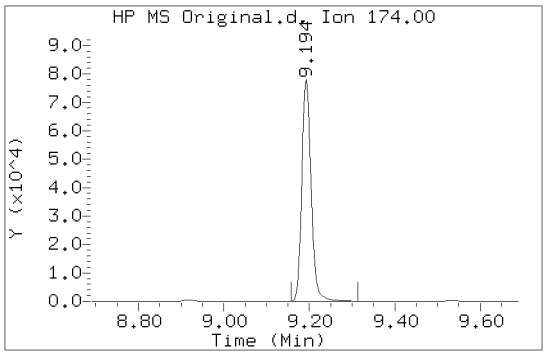
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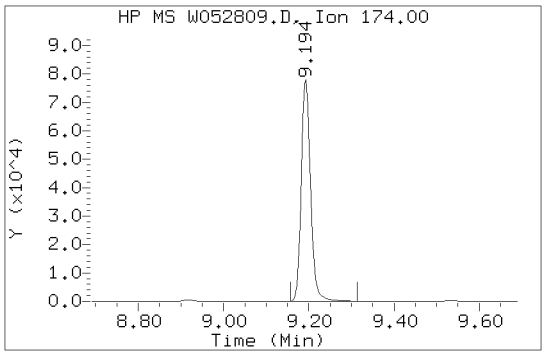
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AFTER

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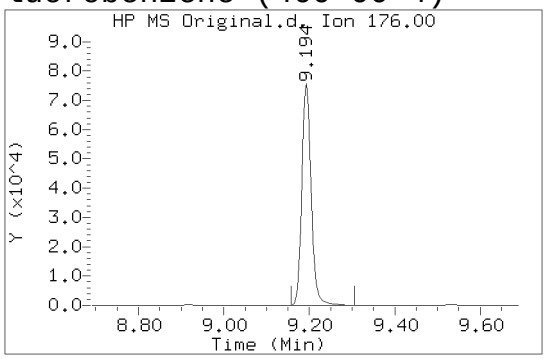
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InstruID : VOA9.i
LabSampID : HS24051490-03MS

4-Bromofluorobenzene (460-00-4)

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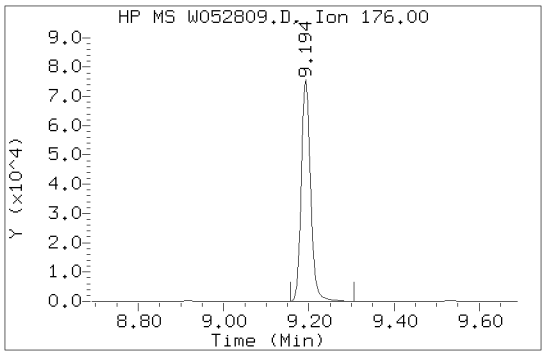
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AFTER

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Data File: \\NAHSTWS005\Target\chem\voa9.i\U240529.b\W052810.D Page 1
Report Date: 22-Jun-2024 11:25

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\W052810.D
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Cal Date : 29-MAY-2024 13:53 Cal File: U052911.D
Als bottle: 51 QC Sample: MSD
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	4.815	4.811	(1.000)	247217	50.0000	
2	Dichlorodifluoromethane	85	1.164	1.160	(0.242)	19402	21.0524	21.05
3	Chloromethane	50	1.295	1.295	(0.269)	78981	23.5784	23.57
4	Propionitrile	54	4.335	4.335	(0.900)	49059	181.220	181.22(a)
5	Vinyl Chloride	62	1.378	1.374	(0.286)	36748	19.6844	19.68
6	Bromomethane	94	1.606	1.606	(0.334)	15200	17.3577	17.35
7	Chloroethane	64	1.693	1.692	(0.352)	26642	20.5560	20.55
8	Trichlorofluoromethane	101	1.891	1.891	(0.393)	47194	21.2880	21.28
9	Acrolein	56	2.262	2.262	(0.470)	2341	25.3883	25.38
10	Acetone	43	2.409	2.408	(0.500)	25190	32.5060	32.50
11	1,1-Dichloroethene	96	2.330	2.330	(0.484)	30244	18.5580	18.55
12	Isobutyl Alcohol	43	5.280	5.280	(1.097)	87151	332.126	332.12(a)
13	Acetonitrile	39	2.671	2.667	(0.555)	35219	175.624	175.62(a)
14	Allyl Chloride	41	2.671	2.671	(0.555)	86443	17.9930	17.99(a)
15	Iodomethane	142	2.465	2.465	(0.512)	11151	64.6180	64.61
16	Acrylonitrile	53	3.065	3.064	(0.636)	24553	35.6550	35.65
17	Methylene Chloride	84	2.791	2.791	(0.580)	36445	18.4678	18.46
18	Methyl tert-butyl ether	73	3.080	3.079	(0.640)	81947	17.8807	17.88
19	Carbon Disulfide	76	2.517	2.517	(0.523)	161994	35.4343	35.43
20	trans-1,2-Dichloroethene	96	3.057	3.053	(0.635)	31812	17.2628	17.26

21 Vinyl Acetate	43	4.339	4.339 (0.901)	30256	27.7717	27.77
22 1,1-Dichloroethane	63	3.511	3.511 (0.729)	62783	17.7348	17.73

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
	23 Chloroprene	53	3.608	3.604	(0.749)	50352	19.3972	19.39
	24 2-Butanone	43	4.264	4.264	(0.886)	34150	30.9110	30.91
	25 Methacrylonitrile	41	4.493	4.493	(0.933)	20045	18.0458	18.04(a)
	26 2,2-Dichloropropane	77	4.178	4.178	(0.868)	29295	12.6078	12.60
	27 cis-1,2-Dichloroethene	96	4.193	4.193	(0.871)	38188	16.7791	16.77
	28 Chloroform	83	4.572	4.568	(0.949)	63431	17.9453	17.94
	29 Bromochloromethane	128	4.467	4.467	(0.928)	18393	17.7361	17.73
$	30 Dibromofluoromethane	113	4.748	4.744	(0.986)	91229	57.8954	57.89
	31 1,1,1-Trichloroethane	97	4.740	4.740	(0.984)	49214	19.8817	19.88
	32 1,1-Dichloropropene	75	4.920	4.920	(0.887)	48164	18.4593	18.45
	33 1,2-Dichloroethane	62	5.171	5.171	(0.932)	50735	19.2988	19.29
	34 Carbon Tetrachloride	117	4.909	4.909	(0.885)	39056	19.1085	19.10
$	35 1,2-Dichloroethane-d4	65	5.093	5.096	(1.058)	108748	57.1750	57.17
*	36 1,4-Difluorobenzene	114	5.550	5.550	(1.000)	360242	50.0000	
	37 Benzene	78	5.138	5.134	(0.926)	147340	17.3645	17.36
	38 Trichloroethene	130	5.786	5.786	(1.043)	37483	17.9481	17.94
	39 Bromodichloromethane	83	6.277	6.277	(1.131)	39427	17.2766	17.27
	40 Methyl Methacrylate	41	5.824	5.820	(1.209)	14310	17.1802	17.18(a)
	42 1,2-Dichloropropane	63	6.007	6.007	(1.082)	39194	17.5138	17.51
	43 2-Nitropropane	43	6.506	6.506	(1.351)	6376	16.6784	16.67
	44 Dibromomethane	93	6.116	6.116	(1.102)	22354	17.2012	17.20
	45 4-Methyl-2-Pentanone	43	6.851	6.851	(0.837)	71598	33.4208	33.42
	46 cis-1,3-Dichloropropene	75	6.690	6.689	(1.205)	43916	15.4685	15.46
*	47 Chlorobenzene-d5	117	8.182	8.181	(1.000)	325962	50.0000	
$	48 Toluene-d8	98	6.918	6.918	(0.846)	356472	57.3205	57.32
	49 Ethyl Methacrylate	69	7.289	7.289	(1.313)	41228	14.7955	14.79(a)
	50 Toluene	91	6.978	6.978	(0.853)	150482	17.0071	17.00
	51 trans-1,3-Dichloropropene	75	7.196	7.196	(1.296)	34518	15.1192	15.11
	52 2-Hexanone	43	7.589	7.589	(0.928)	44820	33.1655	33.16
	53 1,1,2-Trichloroethane	83	7.353	7.353	(0.899)	28627	18.3305	18.33
	54 1,3-Dichloropropane	76	7.496	7.495	(0.916)	61287	17.0047	17.00
	55 Dibromochloromethane	129	7.690	7.690	(0.940)	29376	16.3019	16.30
	56 Tetrachloroethene	164	7.454	7.454	(0.911)	29600	19.1544	19.15
	57 1,2-Dibromoethane	107	7.780	7.780	(0.951)	32188	16.5418	16.54
	58 1-Chlorohexane	55	8.193	8.193	(1.476)	27949	18.5438	18.54
	59 Chlorobenzene	112	8.208	8.208	(1.003)	95514	17.0016	17.00
	60 1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	31226	17.4180	17.41
	61 Ethylbenzene	106	8.305	8.305	(1.015)	47674	18.6267	18.62
	62 m,p-Xylenes	106	8.406	8.406	(1.027)	123112	36.5910	36.59
	63 o-Xylene	106	8.744	8.744	(1.069)	60442	18.4535	18.45
	64 Styrene	104	8.759	8.759	(1.071)	95385	17.6793	17.67
	66 Bromoform	173	8.916	8.916	(1.090)	16718	14.9522	14.95
	67 Isopropylbenzene	105	9.059	9.059	(1.107)	146300	18.8041	18.80
	68 1,1,2,2-Tetrachloroethane	83	9.325	9.325	(0.917)	48150	16.5561	16.55
$	69 4-Bromofluorobenzene	95	9.190	9.190	(1.123)	127876	56.4228	56.42(M)
*	70 1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	174964	50.0000	
	71 1,2,3-Trichloropropane	75	9.359	9.359	(0.920)	43086	15.7987	15.79
	72 trans-1,4-Dichloro-2-butene	53	9.374	9.374	(1.146)	6876	12.3464	12.34(a)
	73 n-Propylbenzene	91	9.411	9.411	(0.926)	171271	18.1645	18.16
	74 Bromobenzene	156	9.314	9.314	(0.916)	40730	16.9293	16.92
	75 1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	116493	18.2692	18.26
	76 2-Chlorotoluene	91	9.479	9.479	(0.932)	105624	19.2133	19.21

77	4-Chlorotoluene	91	9.572	9.572 (0.941)	120211	17.7566	17.75
78	tert-Butylbenzene	119	9.835	9.835 (0.967)	105193	19.8711	19.87

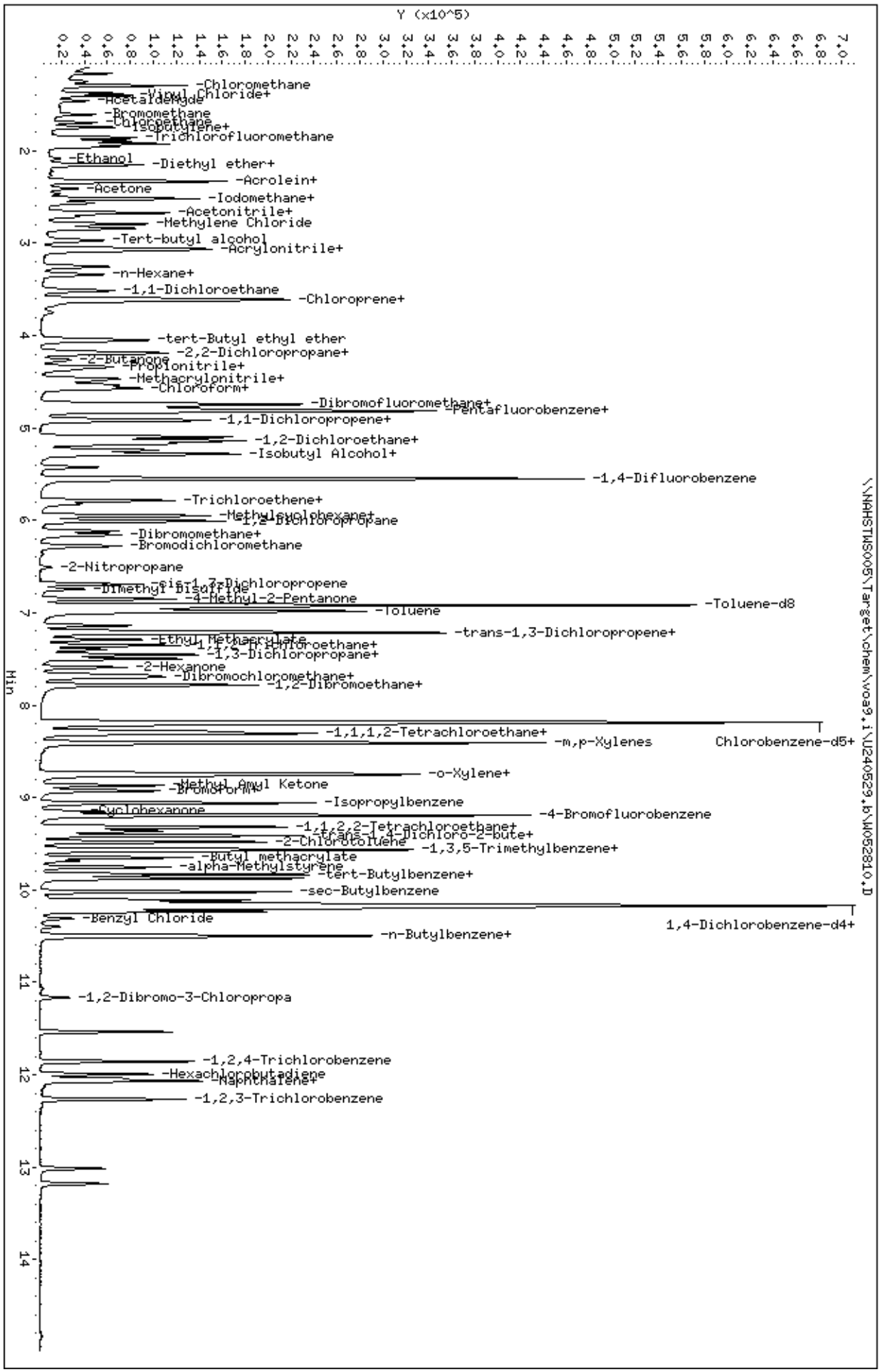
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
79	1,2,4-Trimethylbenzene	105	9.876	9.876	(0.971)	115165	16.5305	16.53
81	sec-Butylbenzene	105	10.018	10.018	(0.985)	136184	18.9549	18.95
82	p-Isopropyltoluene	119	10.142	10.142	(0.997)	116090	18.5421	18.54
83	1,3-Dichlorobenzene	146	10.112	10.112	(0.994)	69445	17.0928	17.09(M)
84	1,4-Dichlorobenzene	146	10.187	10.187	(1.002)	76658	17.0375	17.03
86	Benzyl Chloride	91	10.307	10.307	(1.260)	18250	8.16061	8.16
87	n-Butylbenzene	91	10.491	10.491	(1.032)	96512	17.6146	17.61
88	1,2-Dichlorobenzene	146	10.502	10.502	(1.033)	72248	17.1634	17.16(M)
89	1,2-Dibromo-3-Chloropropane	155	11.166	11.165	(1.098)	4843	14.1754	14.17
90	1,2,4-Trichlorobenzene	180	11.855	11.855	(1.166)	41765	15.7464	15.74
91	Hexachlorobutadiene	225	11.994	11.994	(1.180)	17211	16.1727	16.17
92	Naphthalene	128	12.065	12.065	(1.187)	96945	15.2246	15.22
93	1,2,3-Trichlorobenzene	180	12.268	12.268	(1.206)	38807	15.7057	15.70
146	Methyl acetate	43	2.712	2.712	(0.563)	28746	14.8753	14.87
138	Freon TF	101	2.334	2.330	(0.485)	26989	20.2709	20.27
141	Cyclohexane	56	4.782	4.781	(0.993)	49588	20.8039	20.80
142	Tetrahydrofuran	42	4.542	4.541	(0.943)	12599	35.1062	35.10
147	Methylcyclohexane	55	5.944	5.943	(1.071)	71412	16.7954	16.79
135	1,4-Dioxane	88	6.165	6.165	(1.280)	8283	322.977	322.97
132	n-Butanol	56	5.824	5.820	(1.209)	18377	275.942	275.94(a)
136	n-Hexane	57	3.338	3.338	(0.693)	26034	16.5705	16.57
139	Diethyl ether	59	2.142	2.142	(0.445)	23703	18.2517	18.25
148	Tert-butyl alcohol	59	2.967	2.971	(0.616)	60009	350.363	350.36
149	Isopropyl alcohol	45	2.566	2.566	(0.533)	48243	362.564	362.56
152	Amyl alcohol	42	7.398	7.394	(0.904)	20411	304.935	304.93
156	Diisopropyl ether	45	3.619	3.619	(0.752)	106189	16.8230	16.82
162	Butyl acrylate	55	8.733	8.729	(1.067)	52723	16.1246	16.12
187	n-Amyl acetate	43	8.928	8.927	(1.091)	45320	12.8047	12.80
164	Dicyclopentadiene	66	10.198	10.198	(1.003)	144990	16.1570	16.15
166	1,2,3-Trimethylbenzene	105	10.232	10.232	(1.006)	101776	17.1785	17.17
167	Ethanol	45	2.086	2.086	(0.433)	8652	344.246	344.24
172	tert-Butyl formate	59	5.239	5.239	(1.088)	56845	29.1094	29.10
173	3,3-Dimethyl-1-butanol	57	7.780	7.780	(0.951)	65859	290.283	290.28
174	tert-Amyl methyl ether	73	5.284	5.284	(1.097)	88468	15.2938	15.29
175	tert-Butyl ethyl ether	59	4.047	4.047	(0.840)	90419	15.9916	15.99
176	tert-Amyl alcohol	59	5.239	5.239	(1.088)	56845	287.746	287.74
151	4-Methyl-2-pentanol	45	7.214	7.214	(1.300)	181301	324.495	324.49
140	1,3-Butadiene	54	1.400	1.400	(0.291)	17634	19.2787	19.27
M 94	1,2-Dichloroethylene (total)	96				70000	33.9910	33.99
M 95	Xylenes (total)	106				183554	56.0836	56.08
145	alpha-Methylstyrene	118	9.752	9.752	(0.959)	31690	12.5398	12.53
130	Ethyl Acetate	43	4.339	4.339	(0.901)	30256	13.2878	13.28
131	Methyl Acrylate	55	4.369	4.365	(0.907)	38119	16.9294	16.92
189	n-Butyl acetate	43	7.702	7.702	(0.941)	41429	12.1067	12.10
134	Cyclohexanone	55	9.152	9.149	(0.900)	23473	246.063	246.06(a)
185	Isoprene	39	2.154	2.154	(0.447)	7658	20.1986	20.19
188	Isopropyl acetate	43	5.280	5.280	(0.951)	85762	14.3480	14.34
150	Allyl alcohol	57	3.338	3.338	(0.693)	26034	331.410	331.40
194	Acetaldehyde	44	1.456	1.460	(0.303)	16392	40.6682	40.66(M)
195	Methyl Amyl Ketone	43	8.868	8.864	(1.084)	60443	15.2217	15.22
200	Dimethyl Disulfide	94	6.742	6.742	(0.824)	14608	13.4266	13.42
202	Isobutylene	41	1.745	1.745	(0.362)	15238	20.1444	20.14(M)

133 Ethyl Acrylate	55	5.944	5.943 (1.234)	71412	16.9806	16.98
163 Butyl methacrylate	41	9.647	9.647 (0.949)	40518	20.0137	20.01

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
203 2-Ethylhexyl Acrylate	55	12.039	12.039	(1.184)	27989	14.4305	14.43

QC Flag Legend

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



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Column phase: DB624

Instrument: VOA9.i
Operator: FT
Column diameter: 0.18

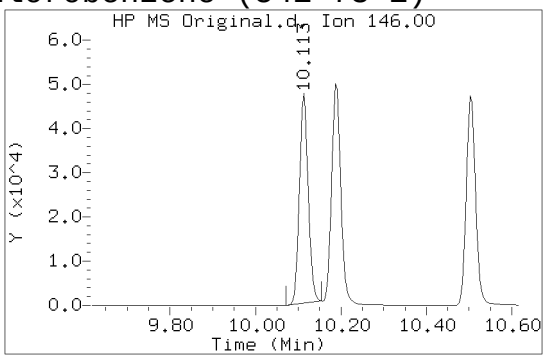
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Inj Date : 30-MAY-2024 06:21
InstruID : VOA9.i
LabSampID : HS24051490-03MSD

1,3-Dichlorobenzene (541-73-1)

Reason Code:

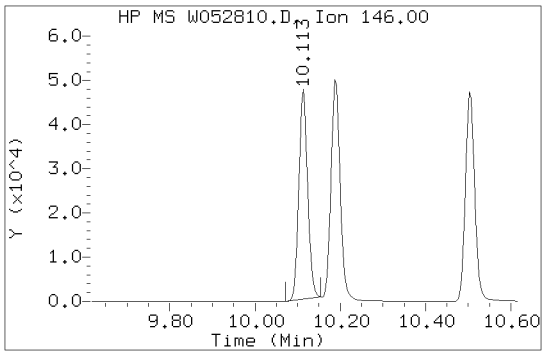
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22-Jun-2024
11:24
RUCHA
PATEL



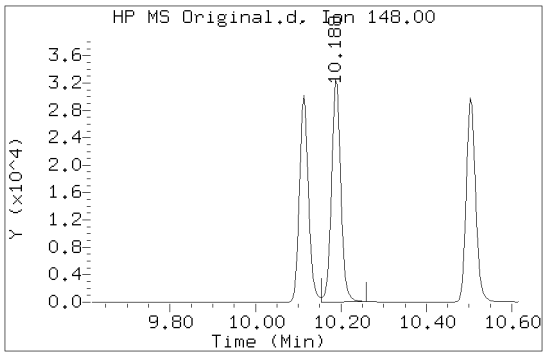
AFTER

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HEIGHT
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22-Jun-2024
11:24
RUCHA
PATEL



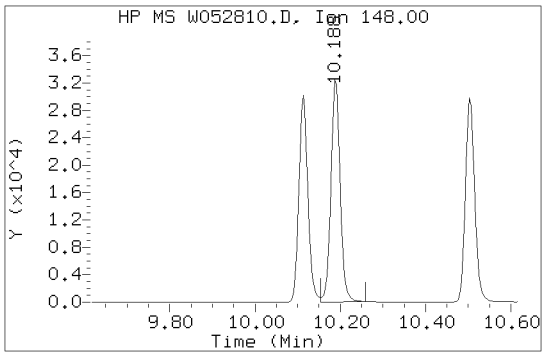
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HEIGHT
32398
22-Jun-2024
11:24
RUCHA
PATEL



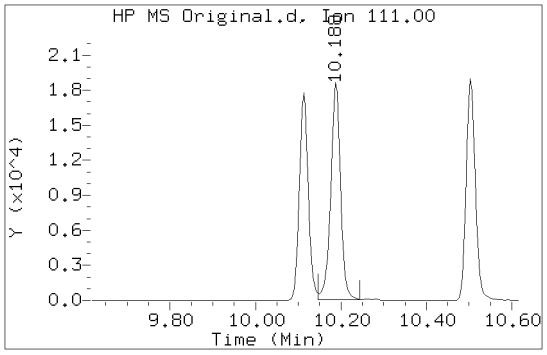
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AREA
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11:24
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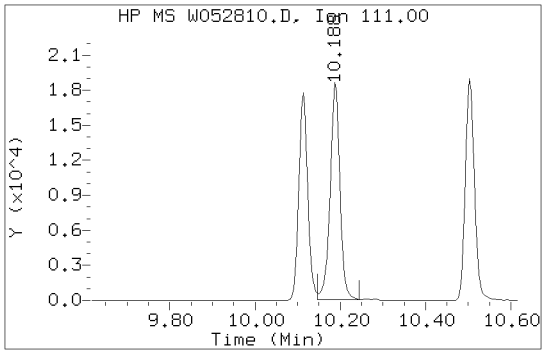
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AREA
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HEIGHT
18599
22-Jun-2024
11:24
RUCHA
PATEL



AFTER

MASS
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AREA
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HEIGHT
18599
22-Jun-2024
11:24
RUCHA
PATEL

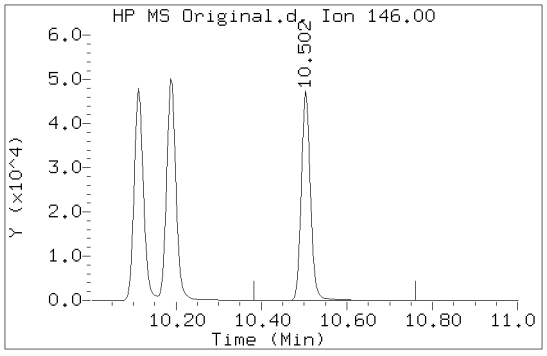


1,2-Dichlorobenzene (95-50-1)

Reason Code:

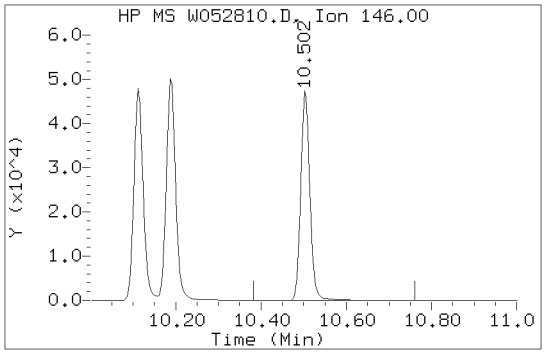
BEFORE

MASS
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AREA
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HEIGHT
47432
22-Jun-2024
11:24
RUCHA
PATEL



AFTER

MASS
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AREA
72248
HEIGHT
47432
22-Jun-2024
11:24
RUCHA
PATEL



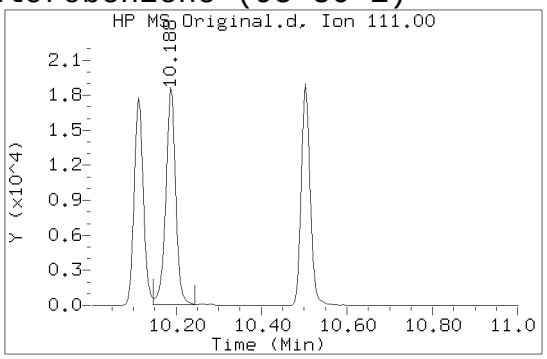
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Inj Date : 30-MAY-2024 06:21
InstruID : VOA9.i
LabSampID : HS24051490-03MSD

1,2-Dichlorobenzene (95-50-1)

Reason Code:

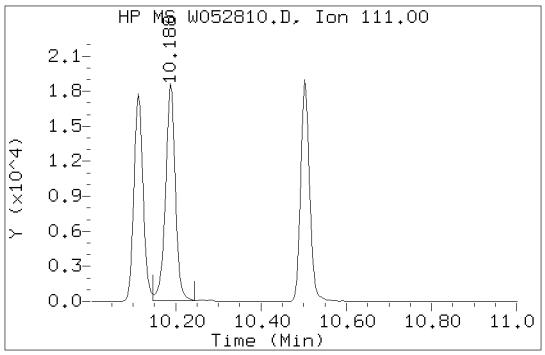
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AREA
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HEIGHT
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22-Jun-2024
11:24
RUCHA
PATEL



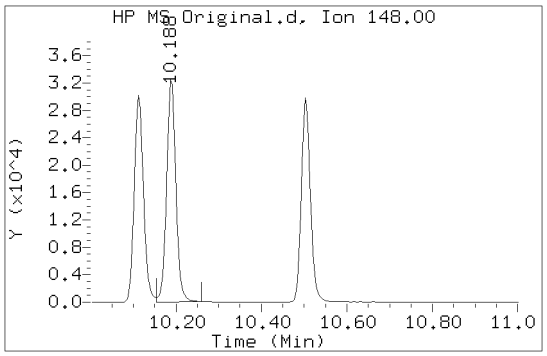
AFTER

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HEIGHT
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11:24
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PATEL



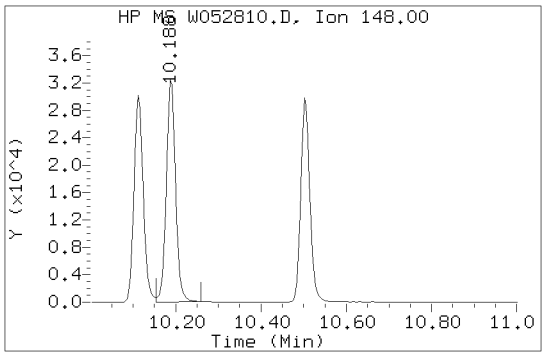
BEFORE

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148
AREA
48751
HEIGHT
32398
22-Jun-2024
11:24
RUCHA
PATEL



AFTER

MASS
148
AREA
48751
HEIGHT
32398
22-Jun-2024
11:24
RUCHA
PATEL

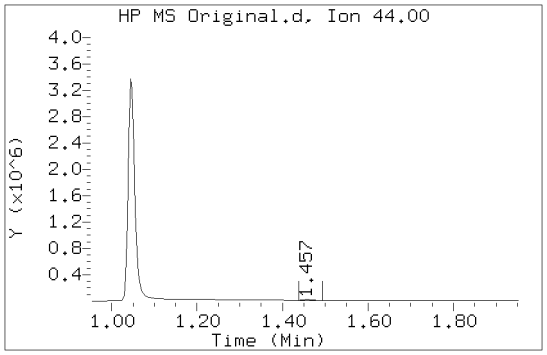


Acetaldehyde (75-07-0)

Reason Code:

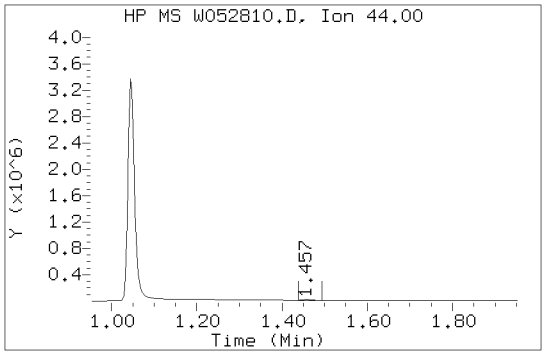
BEFORE

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AREA
16392
HEIGHT
12973
22-Jun-2024
11:24
RUCHA
PATEL



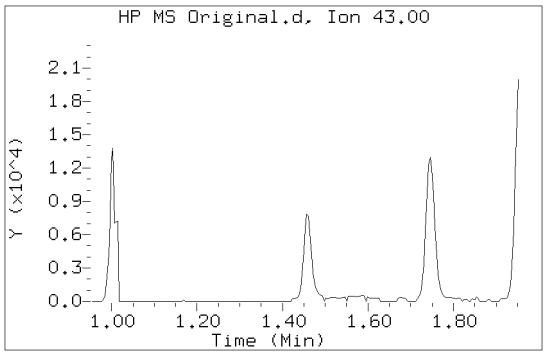
AFTER

MASS
44
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16392
HEIGHT
12973
22-Jun-2024
11:24
RUCHA
PATEL



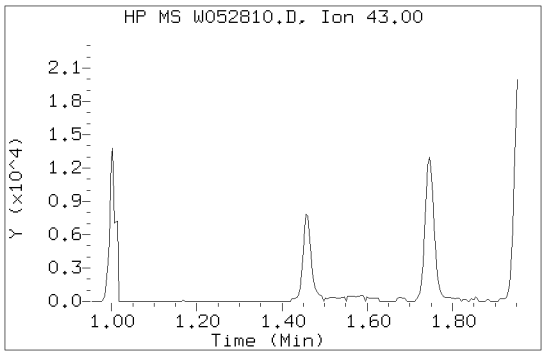
BEFORE

MASS
43
AREA
0
HEIGHT
0
22-Jun-2024
11:24
RUCHA
PATEL



AFTER

MASS
43
AREA
0
HEIGHT
0
22-Jun-2024
11:24
RUCHA
PATEL



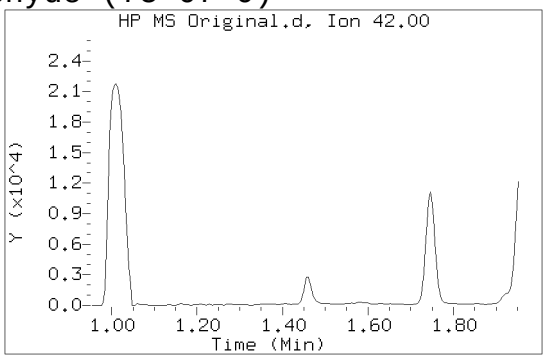
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Inj Date : 30-MAY-2024 06:21
InstruID : VOA9.i
LabSampID : HS24051490-03MSD

Acetaldehyde (75-07-0)

Reason Code:

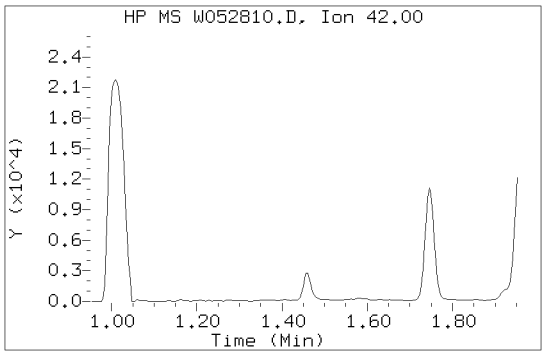
BEFORE

MASS
42
AREA
0
HEIGHT
0
22-Jun-2024
11:24
RUCHA
PATEL



AFTER

MASS
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AREA
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HEIGHT
0
22-Jun-2024
11:24
RUCHA
PATEL

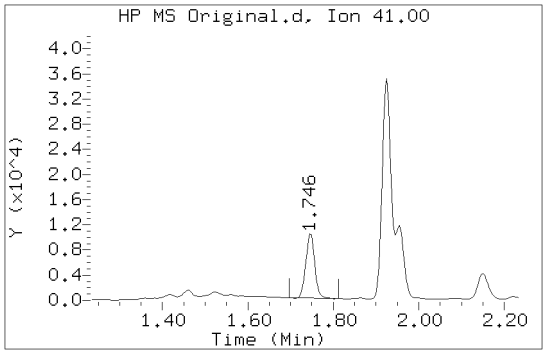


Isobutylene (115-11-7)

Reason Code:

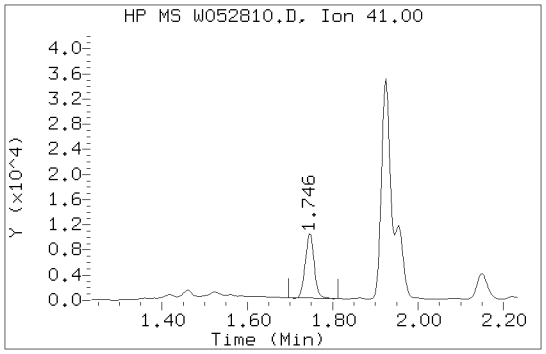
BEFORE

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HEIGHT
10291
22-Jun-2024
11:24
RUCHA
PATEL



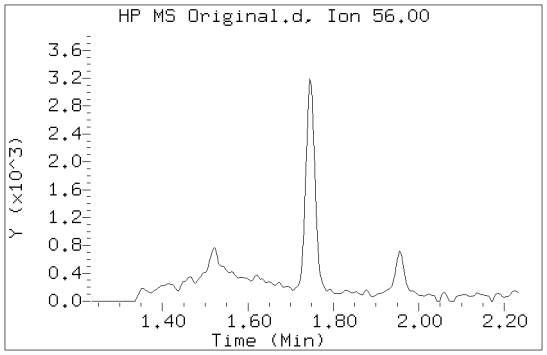
AFTER

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HEIGHT
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22-Jun-2024
11:24
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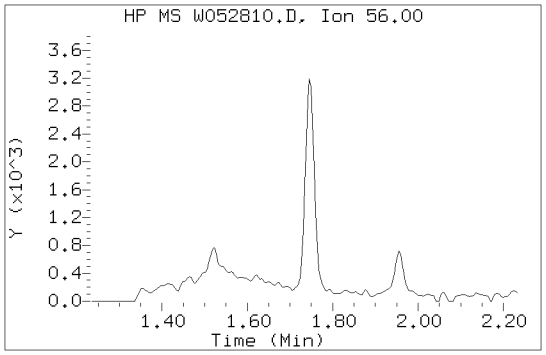
BEFORE

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22-Jun-2024
11:24
RUCHA
PATEL



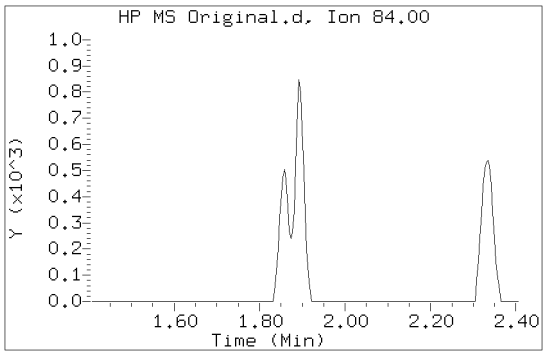
AFTER

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HEIGHT
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22-Jun-2024
11:24
RUCHA
PATEL



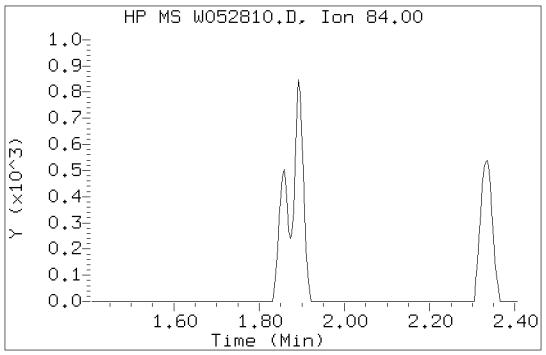
BEFORE

MASS
84
AREA
0
HEIGHT
0
22-Jun-2024
11:24
RUCHA
PATEL



AFTER

MASS
84
AREA
0
HEIGHT
0
22-Jun-2024
11:24
RUCHA
PATEL



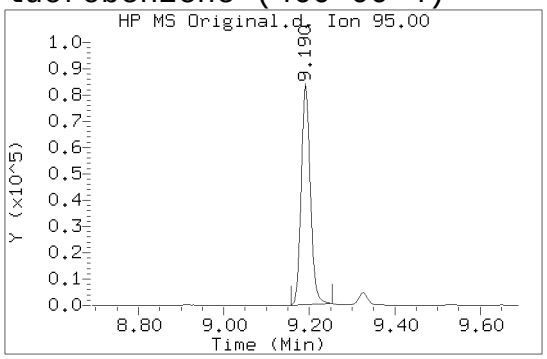
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Inj Date : 30-MAY-2024 06:21
InstruID : VOA9.i
LabSampID : HS24051490-03MSD

4-Bromofluorobenzene (460-00-4)

Reason Code:

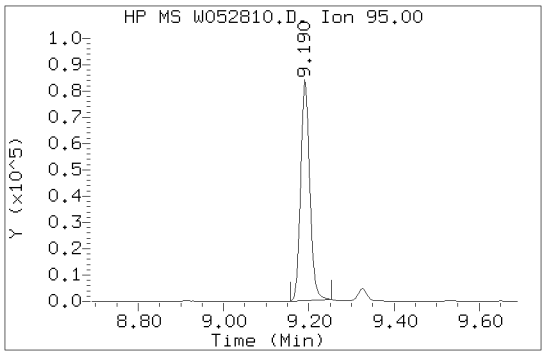
BEFORE

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AREA
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HEIGHT
84011
22-Jun-2024
11:24
RUCHA
PATEL



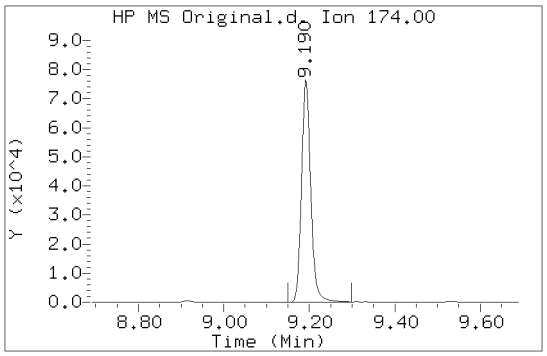
AFTER

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AREA
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HEIGHT
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22-Jun-2024
11:24
RUCHA
PATEL



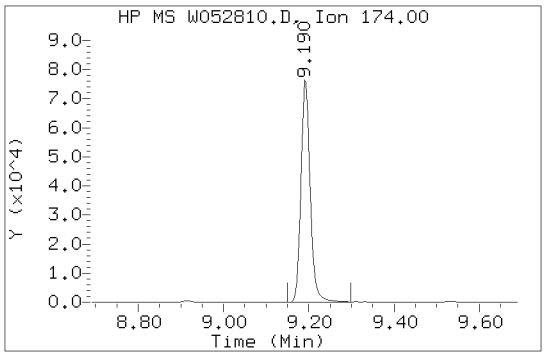
BEFORE

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HEIGHT
76440
22-Jun-2024
11:24
RUCHA
PATEL



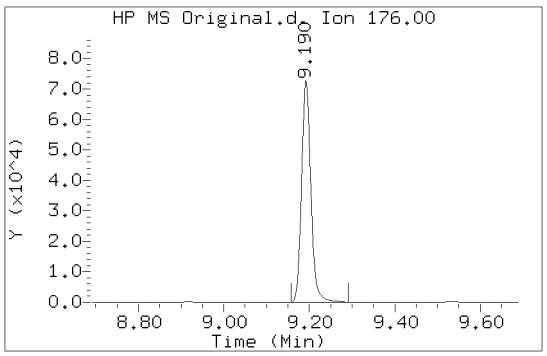
AFTER

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22-Jun-2024
11:24
RUCHA
PATEL



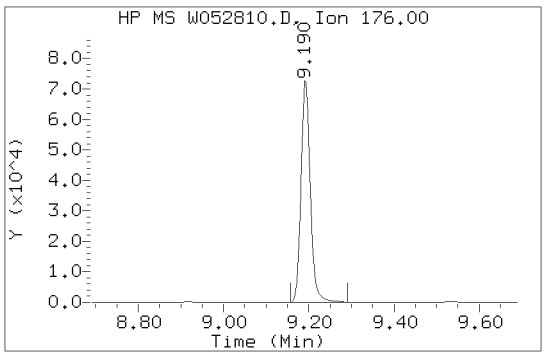
BEFORE

MASS
176
AREA
113508
HEIGHT
72704
22-Jun-2024
11:24
RUCHA
PATEL



AFTER

MASS
176
AREA
113508
HEIGHT
72704
22-Jun-2024
11:24
RUCHA
PATEL



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240529.b\W052818.D Page 1
Report Date: 22-Jun-2024 11:25

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\W052818.D
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Inj Date : 30-MAY-2024 09:18
Operator : FT Inst ID: VOA9.i
Smp Info : CCV;CCV;2;;CCV-END
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240529.b\8260C.m
Meth Date : 22-Jun-2024 11:25 VOA9.i Quant Type: ISTD
Cal Date : 29-MAY-2024 13:53 Cal File: U052911.D
Als bottle: 59 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	4.815	4.815	(1.000)	250615	50.0000	
2	Dichlorodifluoromethane	85	1.172	1.172	(0.243)	37793	50.0000	40.45
3	Chloromethane	50	1.303	1.303	(0.271)	147622	50.0000	44.08
4	Propionitrile	54	4.343	4.343	(0.902)	125230	500.000	456.62
5	Vinyl Chloride	62	1.382	1.382	(0.287)	71368	50.0000	37.71
6	Bromomethane	94	1.610	1.610	(0.334)	28104	50.0000	33.32
7	Chloroethane	64	1.696	1.696	(0.352)	52893	50.0000	40.11
8	Trichlorofluoromethane	101	1.899	1.899	(0.394)	91715	50.0000	40.80
9	Acrolein	56	2.270	2.270	(0.471)	6733	100.000	76.49
10	Acetone	43	2.416	2.416	(0.502)	54568	100.000	71.76
11	1,1-Dichloroethene	96	2.334	2.334	(0.485)	57837	50.0000	35.00
12	Isobutyl Alcohol	43	5.288	5.288	(1.098)	232847	1000.00	875.72
13	Acetonitrile	39	2.675	2.675	(0.556)	90926	500.000	447.26
14	Allyl Chloride	41	2.679	2.679	(0.556)	221242	50.0000	45.11
15	Iodomethane	142	2.469	2.469	(0.513)	22773	100.000	107.08
16	Acrylonitrile	53	3.072	3.072	(0.638)	63170	100.000	90.88
17	Methylene Chloride	84	2.799	2.799	(0.581)	76764	50.0000	39.52
18	Methyl tert-butyl ether	73	3.087	3.087	(0.641)	205159	50.0000	44.26
19	Carbon Disulfide	76	2.521	2.521	(0.524)	319615	100.000	68.96
20	trans-1,2-Dichloroethene	96	3.061	3.061	(0.636)	63094	50.0000	33.77

21 Vinyl Acetate	43	4.343	4.343 (0.902)	84715	100.000	76.70
22 1,1-Dichloroethane	63	3.515	3.515 (0.730)	127292	50.0000	35.46

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240529.b\W052818.D Page 2
Report Date: 22-Jun-2024 11:25

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	23 Chloroprene	53	3.612	3.612	(0.750)	104617	50.0000	39.75
	24 2-Butanone	43	4.268	4.268	(0.886)	76545	100.000	68.34
	25 Methacrylonitrile	41	4.497	4.497	(0.934)	50316	50.0000	44.12(a)
	26 2,2-Dichloropropane	77	4.186	4.186	(0.869)	57159	50.0000	24.26
	27 cis-1,2-Dichloroethene	96	4.197	4.197	(0.872)	80390	50.0000	34.84
	28 Chloroform	83	4.575	4.575	(0.950)	130872	50.0000	36.52
	29 Bromochloromethane	128	4.470	4.470	(0.928)	39153	50.0000	36.94
$	30 Dibromofluoromethane	113	4.748	4.748	(0.986)	91656	50.0000	57.38
	31 1,1,1-Trichloroethane	97	4.744	4.744	(0.985)	99385	50.0000	39.60
	32 1,1-Dichloropropene	75	4.924	4.924	(0.887)	95261	50.0000	36.55
	33 1,2-Dichloroethane	62	5.175	5.175	(0.932)	106765	50.0000	40.00
	34 Carbon Tetrachloride	117	4.913	4.913	(0.885)	79412	50.0000	38.90
$	35 1,2-Dichloroethane-d4	65	5.100	5.100	(1.059)	110548	50.0000	57.33
*	36 1,4-Difluorobenzene	114	5.554	5.554	(1.000)	359769	50.0000	
	37 Benzene	78	5.138	5.138	(0.925)	297927	50.0000	35.15
	38 Trichloroethene	130	5.786	5.786	(1.042)	75786	50.0000	36.33
	39 Bromodichloromethane	83	6.277	6.277	(1.130)	87912	50.0000	38.57
	40 Methyl Methacrylate	41	5.828	5.828	(1.210)	36029	50.0000	41.39
	41 2-Chloroethylvinyl ether	63	6.577	6.577	(1.184)	55248	100.000	75.30
	42 1,2-Dichloropropane	63	6.007	6.007	(1.082)	82526	50.0000	36.92
	43 2-Nitropropane	43	6.510	6.510	(1.352)	19003	50.0000	44.30
	44 Dibromomethane	93	6.120	6.120	(1.102)	47384	50.0000	36.50
	45 4-Methyl-2-Pentanone	43	6.855	6.855	(0.837)	165374	100.000	74.87
	46 cis-1,3-Dichloropropene	75	6.690	6.690	(1.204)	104094	50.0000	35.09
*	47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	330228	50.0000	
$	48 Toluene-d8	98	6.922	6.922	(0.846)	359770	50.0000	57.10
	49 Ethyl Methacrylate	69	7.289	7.289	(1.312)	110802	50.0000	39.81
	50 Toluene	91	6.978	6.978	(0.853)	307052	50.0000	34.25
	51 trans-1,3-Dichloropropene	75	7.196	7.196	(1.296)	84092	50.0000	34.74
	52 2-Hexanone	43	7.589	7.589	(0.927)	105303	100.000	73.73
	53 1,1,2-Trichloroethane	83	7.353	7.353	(0.898)	61413	50.0000	39.02
	54 1,3-Dichloropropane	76	7.496	7.496	(0.916)	132248	50.0000	36.21
	55 Dibromochloromethane	129	7.691	7.691	(0.940)	68671	50.0000	36.01
	56 Tetrachloroethene	164	7.454	7.454	(0.911)	58347	50.0000	37.26
	57 1,2-Dibromoethane	107	7.784	7.784	(0.951)	71362	50.0000	36.20
	58 1-Chlorohexane	55	8.193	8.193	(1.475)	56156	50.0000	37.76
	59 Chlorobenzene	112	8.208	8.208	(1.003)	197132	50.0000	34.63
	60 1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	68411	50.0000	37.66
	61 Ethylbenzene	106	8.305	8.305	(1.015)	98660	50.0000	37.71
	62 m,p-Xylenes	106	8.407	8.407	(1.027)	253279	100.000	74.70
	63 o-Xylene	106	8.744	8.744	(1.068)	125312	50.0000	36.92
	64 Styrene	104	8.759	8.759	(1.070)	206542	50.0000	37.78
	66 Bromoform	173	8.916	8.916	(1.089)	41408	50.0000	33.85
	67 Isopropylbenzene	105	9.059	9.059	(1.107)	300765	50.0000	38.15
	68 1,1,2,2-Tetrachloroethane	83	9.325	9.325	(0.917)	102322	50.0000	33.66
$	69 4-Bromofluorobenzene	95	9.190	9.190	(1.123)	134566	50.0000	58.61
*	70 1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	182855	50.0000	
	71 1,2,3-Trichloropropane	75	9.359	9.359	(0.920)	97250	50.0000	34.12
	72 trans-1,4-Dichloro-2-butene	53	9.374	9.374	(1.145)	17779	50.0000	31.51
	73 n-Propylbenzene	91	9.411	9.411	(0.926)	351225	50.0000	35.64
	74 Bromobenzene	156	9.314	9.314	(0.916)	86478	50.0000	34.39
	75 1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	246133	50.0000	36.87

76	2-Chlorotoluene	91	9.479	9.479 (0.932)	218901	50.0000	38.25
77	4-Chlorotoluene	91	9.572	9.572 (0.941)	253237	50.0000	35.79

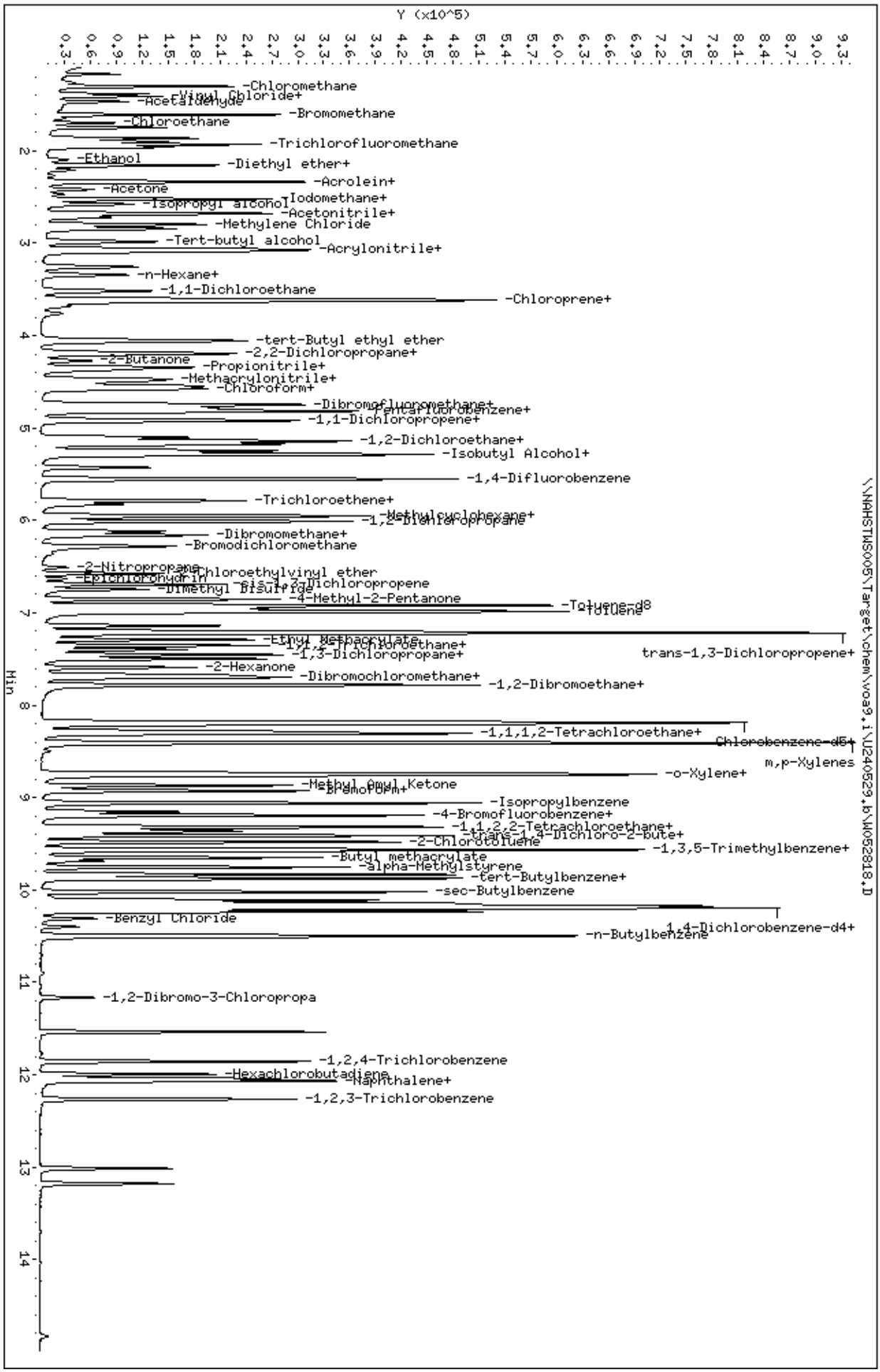
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)	
78	tert-Butylbenzene	119	9.835	9.835	(0.967)	213676	50.0000	38.62	
79	1,2,4-Trimethylbenzene	105	9.876	9.876	(0.971)	243912	50.0000	35.11	
81	sec-Butylbenzene	105	10.019	10.019	(0.985)	282341	50.0000	37.60	
82	p-Isopropyltoluene	119	10.146	10.146	(0.998)	243825	50.0000	37.26	
83	1,3-Dichlorobenzene	146	10.187	10.187	(1.002)	158682	50.0000	37.37	
84	1,4-Dichlorobenzene	146	10.187	10.187	(1.002)	158682	50.0000	33.74	
86	Benzyl Chloride	91	10.311	10.311	(1.260)	42165	50.0000	16.98	
87	n-Butylbenzene	91	10.491	10.491	(1.032)	201797	50.0000	34.62	
88	1,2-Dichlorobenzene	146	10.187	10.187	(1.002)	158682	50.0000	36.07	
89	1,2-Dibromo-3-Chloropropane	155	11.166	11.166	(1.098)	12218	50.0000	32.50	
90	1,2,4-Trichlorobenzene	180	11.855	11.855	(1.166)	91889	50.0000	33.14	
91	Hexachlorobutadiene	225	11.994	11.994	(1.180)	37462	50.0000	33.68	
92	Naphthalene	128	12.065	12.065	(1.187)	236097	50.0000	35.31	
93	1,2,3-Trichlorobenzene	180	12.268	12.268	(1.206)	89488	50.0000	34.65	
146	Methyl acetate	43	2.720	2.720	(0.565)	79021	50.0000	39.89	
138	Freon TF	101	2.337	2.337	(0.485)	51327	50.0000	37.24	
141	Cyclohexane	56	4.782	4.782	(0.993)	91878	50.0000	38.57	
142	Tetrahydrofuran	42	4.545	4.545	(0.944)	33024	100.000	92.15	
147	Methylcyclohexane	55	5.947	5.947	(1.071)	192939	50.0000	43.60	
135	1,4-Dioxane	88	6.169	6.169	(1.281)	20370	1000.00	795.25	
132	n-Butanol	56	5.824	5.824	(1.209)	49165	1000.00	728.23	
136	n-Hexane	57	3.342	3.342	(0.694)	47819	50.0000	29.27	
139	Diethyl ether	59	2.150	2.150	(0.447)	60818	50.0000	46.29	
148	Tert-butyl alcohol	59	2.982	2.982	(0.619)	146979	1000.00	853.53	
149	Isopropyl alcohol	45	2.577	2.577	(0.535)	116548	1000.00	863.48	
152	Amyl alcohol	42	7.398	7.398	(0.904)	58003	1000.00	803.59	
156	Diisopropyl ether	45	3.627	3.627	(0.753)	269009	50.0000	42.03	
162	Butyl acrylate	55	8.729	8.729	(1.066)	141696	50.0000	40.39	
187	n-Amyl acetate	43	8.928	8.928	(1.091)	126698	50.0000	35.33	
164	Dicyclopentadiene	66	10.198	10.198	(1.003)	393118	50.0000	41.91	
166	1,2,3-Trimethylbenzene	105	10.232	10.232	(1.006)	262672	50.0000	41.33	
167	Ethanol	45	2.098	2.098	(0.436)	23327	1000.00	919.12	
172	tert-Butyl formate	59	5.246	5.246	(1.090)	146979	100.000	74.24	
173	3,3-Dimethyl-1-butanol	57	7.781	7.781	(0.951)	173227	1000.00	753.65	
174	tert-Amyl methyl ether	73	5.288	5.288	(1.098)	244831	50.0000	41.75	
175	tert-Butyl ethyl ether	59	4.054	4.054	(0.842)	229099	50.0000	39.96	
176	tert-Amyl alcohol	59	5.246	5.246	(1.090)	146979	1000.00	733.91	
151	4-Methyl-2-pentanol	45	7.215	7.215	(1.299)	507020	1000.00	864.05	
140	1,3-Butadiene	54	1.408	1.408	(0.292)	34282	50.0000	36.97	
182	Epichlorohydrin	57	6.630	6.630	(1.194)	20074	200.000	161.73	
M 94	1,2-Dichloroethylene (total)	96				143484	100.000		(a)
145	alpha-Methylstyrene	118	9.752	9.752	(0.959)	98211	50.0000	35.53	
130	Ethyl Acetate	43	4.343	4.343	(0.902)	84715	50.0000	36.70	
131	Methyl Acrylate	55	4.373	4.373	(0.908)	101036	50.0000	43.83	
189	n-Butyl acetate	43	7.702	7.702	(0.941)	121014	50.0000	34.90	
134	Cyclohexanone	55	9.153	9.153	(0.900)	62302	1000.00	605.57	
185	Isoprene	39	2.158	2.158	(0.448)	16121	50.0000	40.71	
188	Isopropyl acetate	43	5.288	5.288	(0.952)	232902	50.0000	39.01	
150	Allyl alcohol	57	3.342	3.342	(0.694)	47819	1000.00	585.55	
194	Acetaldehyde	44	1.468	1.468	(0.305)	101020	200.000	241.60	
195	Methyl Amyl Ketone	43	8.864	8.864	(1.083)	160362	50.0000	39.86	
200	Dimethyl Disulfide	94	6.746	6.746	(0.824)	47237	50.0000	31.27	

133	Ethyl Acrylate	55	5.947	5.947 (1.235)	192939	50.0000	43.58
163	Butyl methacrylate	41	9.647	9.647 (0.949)	84227	50.0000	39.80

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
159 Propylene oxide	43	2.206	2.206	(0.458)	12594	100.000	87.81
203 2-Ethylhexyl Acrylate	55	12.039	12.039	(1.184)	91455	50.0000	40.84

QC Flag Legend

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



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240529.b\W052818.D
Date : 30-MAY-2024 09:18
Client ID: CCV
Sample Info: CCV;CCV;2;;CCV-END
Purge Volume: 5.0
Column phase: DB624

\\NAHSTWS005\Target\chem\voa9.i\U240529.b\W052818.D

Instrument: VOA9.i
Operator: FT
Column diameter: 0.18

Data File : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\W052818.D
Inj Date : 30-MAY-2024 09:18
InstruID : VOA9.i
LabSampID : CCV

NO MANUAL INTEGRATIONS

right solutions.
right partner.

RawData

<textMethods>

Workorder

HS24051490

Client

Bhate Environmental Associates, Inc.

Project

LHAAP-50

06/24/2024

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\voa9.i\U240530.b\U053002.D Page 1
Report Date: 30-May-2024 16:57

ALS Laboratory Group

Data file : \\nahstws005\Target\chem\voa9.i\U240530.b\U053002.D
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 30-MAY-2024 14:36
Operator : TS Inst ID: VOA9.i
Smp Info : BFB
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240530.b\bfb.m
Meth Date : 27-Jan-2023 08:08 apoluri Quant Type: ISTD
Cal Date : 30-MAR-2018 18:09 Cal File: U033003.d
Als bottle: 2 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: NAHSTW7066

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)		
RT	EXP RT	REL RT	MASS	RESPONSE			TARGET RANGE	RATIO
1 bfb							CAS #: 460-00-4	
9.190	9.180	(0.000)	95	78120			0.00- 100.00	100.00
9.190	9.180	(0.000)	50	14326			15.00- 40.00	18.34
9.190	9.180	(0.000)	75	37928			30.00- 60.00	48.55
9.190	9.180	(0.000)	96	5542			5.00- 9.00	7.09
9.190	9.180	(0.000)	173	0	0.0	0.0	0.00- 2.00	0.00
9.190	9.180	(0.000)	174	66360			50.00- 0.00	84.95
9.190	9.180	(0.000)	175	5968			5.00- 9.00	8.99
9.190	9.180	(0.000)	176	63672			95.00- 101.00	95.95
9.190	9.180	(0.000)	177	4411			5.00- 9.00	6.93

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	18.34
75	30.00 - 60.00% of mass 95	48.55
96	5.00 - 9.00% of mass 95	7.09
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	84.95
175	5.00 - 9.00% of mass 174	7.64 (8.99)
176	95.00 - 101.00% of mass 174	81.51 (95.95)
177	5.00 - 9.00% of mass 176	5.65 (6.93)

Data File: U053002.D
Spectrum: Scan 2293 (9.19)
Location of Maximum: 95.05
Number of points: 106

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.10	76	62.00	3286	92.00	2109	134.90	179
36.00	739	63.00	2530	93.00	3539	136.80	156
37.10	3919	64.00	282	94.00	9457	139.70	73
38.10	3507	65.00	124	95.00	78120	140.90	688
39.00	1848	66.20	60	96.00	5542	141.80	197
40.00	406	68.00	7569	97.00	221	142.90	756
41.00	943	69.00	8116	98.10	696	143.90	71
42.00	1376	70.00	1065	99.00	59	145.80	154
43.00	831	71.00	161	102.90	64	146.90	76
44.00	764	72.10	504	103.90	325	147.90	229
45.00	1140	73.00	3259	104.90	177	148.80	54
46.00	98	74.00	12375	105.90	279	149.90	96
47.00	1187	75.00	37928	106.80	174	152.90	65
48.00	585	76.00	3506	108.80	85	154.90	204
49.10	3422	77.00	596	110.80	52	156.90	115
50.00	14326	77.90	387	111.70	63	158.80	119
51.00	4444	79.00	1830	113.10	73	161.00	91
52.00	256	79.90	715	114.90	111	170.90	113
52.90	103	80.90	1838	115.90	272	171.90	321
54.10	217	81.90	397	116.90	441	173.90	66360
55.00	2033	83.00	243	117.80	266	175.00	5968
56.00	1374	84.80	64	118.80	369	175.90	63672
57.00	2342	85.20	69	126.90	219	176.90	4411
57.90	271	85.90	129	127.90	328	177.90	151
59.00	621	86.90	3459	128.80	137	185.90	107
60.00	789	88.00	3487	129.90	332		
61.00	3493	91.00	267	130.80	111		

Data File: \\nahstws005\Target\chem\voa9.i\U240530.b\U053002.D Page 1

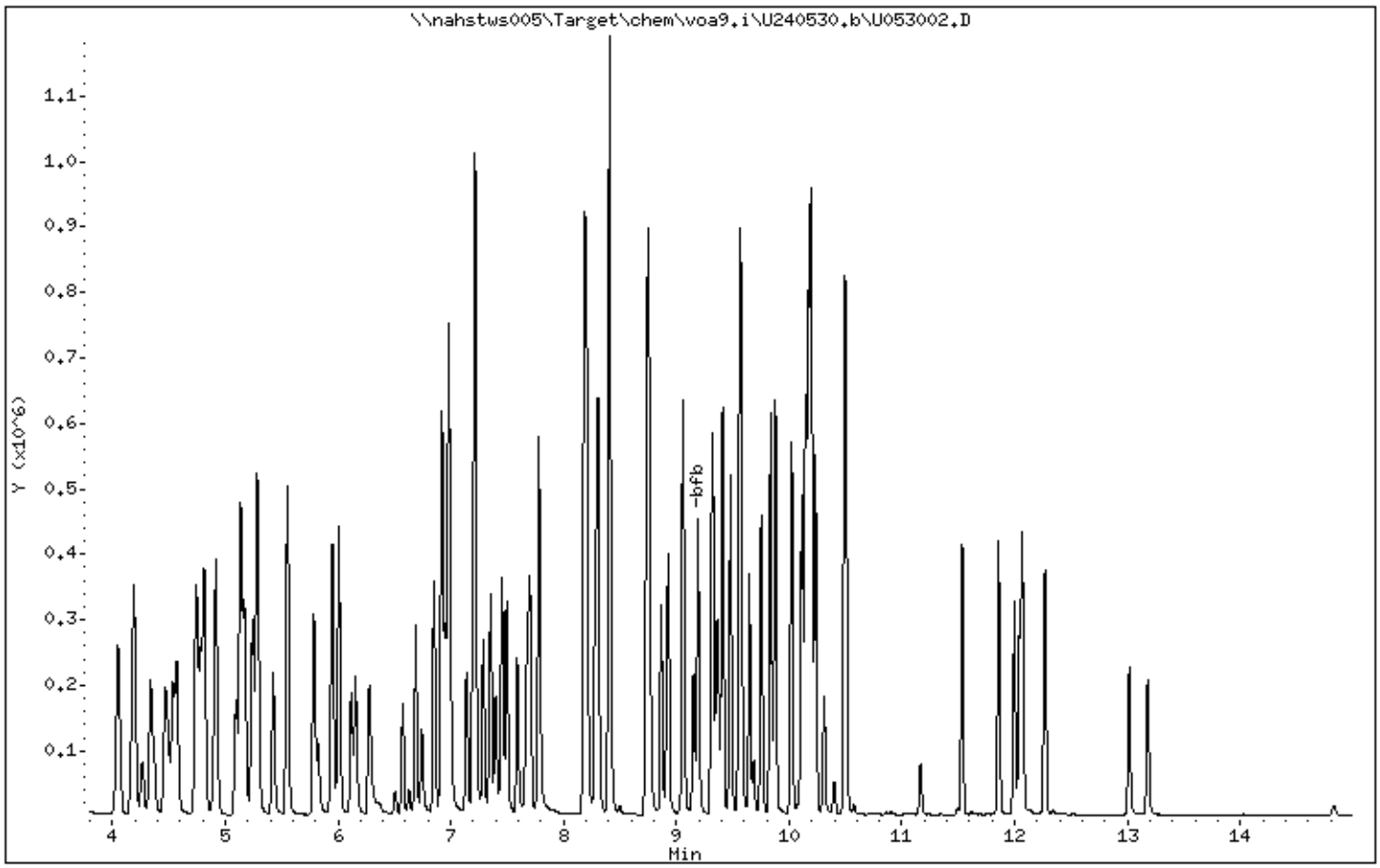
Date : 30-MAY-2024 14:36

Client ID: BFB Instrument: VOA9.i

Sample Info: BFB

Volume Injected (uL): 2.0 Operator: TS

Column phase: DB624 Column diameter: 0.25



Data File: \\nahstws005\Target\chem\voa9.i\U240530.b\U053002.D Page 2

Date : 30-MAY-2024 14:36

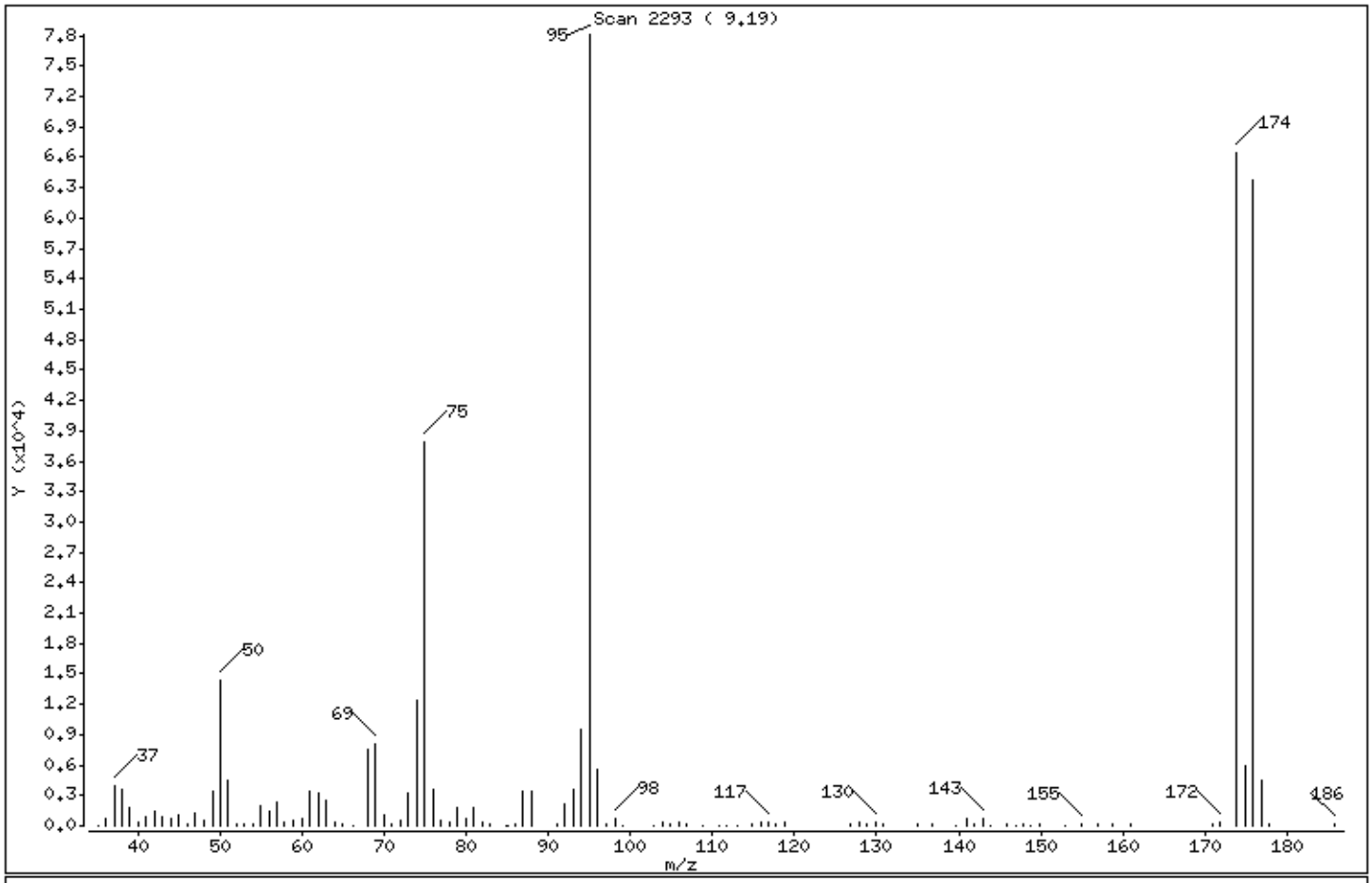
Client ID: BFB Instrument: VOA9.i

Sample Info: BFB

Volume Injected (uL): 2.0 Operator: TS

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	18.34
75	30.00 - 60.00% of mass 95	48.55
96	5.00 - 9.00% of mass 95	7.09
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	84.95
175	5.00 - 9.00% of mass 174	7.64 (8.99)
176	95.00 - 101.00% of mass 174	81.51 (95.95)
177	5.00 - 9.00% of mass 176	5.65 (6.93)

Data File: \\nahstws005\Target\chem\voa9.i\U240530.b\U053002.D Page 3

Date : 30-MAY-2024 14:36

Client ID: BFB Instrument: VOA9.i

Sample Info: BFB

Volume Injected (uL): 2.0 Operator: TS

Column phase: DB624 Column diameter: 0.25

Data File: U053002.D
Spectrum: Scan 2293 (9.19)
Location of Maximum: 95.05
Number of points: 106

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.10	76	62.00	3286	92.00	2109	134.90	179
36.00	739	63.00	2530	93.00	3539	136.80	156
37.10	3919	64.00	282	94.00	9457	139.70	73
38.10	3507	65.00	124	95.00	78120	140.90	688
39.00	1848	66.20	60	96.00	5542	141.80	197
40.00	406	68.00	7569	97.00	221	142.90	756
41.00	943	69.00	8116	98.10	696	143.90	71
42.00	1376	70.00	1065	99.00	59	145.80	154
43.00	831	71.00	161	102.90	64	146.90	76
44.00	764	72.10	504	103.90	325	147.90	229
45.00	1140	73.00	3259	104.90	177	148.80	54
46.00	98	74.00	12375	105.90	279	149.90	96
47.00	1187	75.00	37928	106.80	174	152.90	65
48.00	585	76.00	3506	108.80	85	154.90	204
49.10	3422	77.00	596	110.80	52	156.90	115
50.00	14326	77.90	387	111.70	63	158.80	119
51.00	4444	79.00	1830	113.10	73	161.00	91
52.00	256	79.90	715	114.90	111	170.90	113
52.90	103	80.90	1838	115.90	272	171.90	321
54.10	217	81.90	397	116.90	441	173.90	66360
55.00	2033	83.00	243	117.80	266	175.00	5968
56.00	1374	84.80	64	118.80	369	175.90	63672
57.00	2342	85.20	69	126.90	219	176.90	4411
57.90	271	85.90	129	127.90	328	177.90	151
59.00	621	86.90	3459	128.80	137	185.90	107
60.00	789	88.00	3487	129.90	332		
61.00	3493	91.00	267	130.80	111		

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240530.b\U053002.D Page 1
Report Date: 24-Jun-2024 08:29

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240530.b\U053002.D
Lab Smp Id: VSTD050 Client Smp ID: VSTD050
Inj Date : 30-MAY-2024 14:58
Operator : TS Inst ID: VOA9.i
Smp Info : VSTD050;VSTD050;2;;ICV
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa9.i\U240530.b\8260C.m
Meth Date : 24-Jun-2024 08:29 VOA9.i Quant Type: ISTD
Cal Date : 29-MAY-2024 11:00 Cal File: U052903.D
Als bottle: 2 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	4.811	4.811	(1.000)	259371	50.0000	
2 Dichlorodifluoromethane	85	1.160	1.160	(0.241)	48577	50.0000	50.23
3 Chloromethane	50	1.291	1.291	(0.268)	176800	50.0000	51.13
4 Propionitrile	54	4.332	4.332	(0.900)	136633	500.000	480.73
5 Vinyl Chloride	62	1.374	1.374	(0.286)	92037	50.0000	46.99
6 Bromomethane	94	1.599	1.599	(0.332)	37305	50.0000	43.32
7 Chloroethane	64	1.689	1.689	(0.351)	65683	50.0000	47.97
8 Trichlorofluoromethane	101	1.887	1.887	(0.392)	113253	50.0000	48.69
9 Acrolein	56	2.259	2.259	(0.469)	9178	100.000	100.63
10 Acetone	43	2.405	2.405	(0.500)	69436	100.000	88.78
11 1,1-Dichloroethene	96	2.326	2.326	(0.483)	76316	50.0000	44.63
12 Isobutyl Alcohol	43	5.280	5.280	(1.097)	279343	1000.00	1009.37
13 Acetonitrile	39	2.667	2.667	(0.554)	97460	500.000	463.22
14 Allyl Chloride	41	2.667	2.667	(0.554)	237095	50.0000	46.67
15 Iodomethane	142	2.461	2.461	(0.512)	46484	100.000	111.46
16 Acrylonitrile	53	3.061	3.061	(0.636)	67193	100.000	93.37
17 Methylene Chloride	84	2.787	2.787	(0.579)	95941	50.0000	47.85
18 Methyl tert-butyl ether	73	3.076	3.076	(0.639)	225668	50.0000	47.00
19 Carbon Disulfide	76	2.514	2.514	(0.522)	419460	100.000	87.45
20 trans-1,2-Dichloroethene	96	3.053	3.053	(0.635)	84217	50.0000	43.55

21 Vinyl Acetate	43	4.335	4.335 (0.901)	108443	100.000	94.87
22 1,1-Dichloroethane	63	3.507	3.507 (0.729)	159860	50.0000	43.04

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240530.b\U053002.D Page 2
Report Date: 24-Jun-2024 08:29

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	23 Chloroprene	53	3.604	3.604	(0.749)	128593	50.0000	47.21
	24 2-Butanone	43	4.260	4.260	(0.885)	102734	100.000	88.63
	25 Methacrylonitrile	41	4.493	4.493	(0.934)	61337	50.0000	51.69(a)
	26 2,2-Dichloropropane	77	4.178	4.178	(0.868)	114597	50.0000	47.00
	27 cis-1,2-Dichloroethene	96	4.189	4.189	(0.871)	101263	50.0000	42.40
	28 Chloroform	83	4.568	4.568	(0.949)	163686	50.0000	44.13
	29 Bromochloromethane	128	4.463	4.463	(0.928)	49463	50.0000	45.03
$	30 Dibromofluoromethane	113	4.744	4.744	(0.986)	97213	50.0000	58.78
	31 1,1,1-Trichloroethane	97	4.740	4.740	(0.985)	124476	50.0000	47.92
	32 1,1-Dichloropropene	75	4.916	4.916	(0.886)	120414	50.0000	43.79
	33 1,2-Dichloroethane	62	5.171	5.171	(0.932)	131135	50.0000	46.46
	34 Carbon Tetrachloride	117	4.909	4.909	(0.885)	96600	50.0000	44.84
$	35 1,2-Dichloroethane-d4	65	5.093	5.093	(1.058)	113089	50.0000	56.67
*	36 1,4-Difluorobenzene	114	5.550	5.550	(1.000)	379636	50.0000	
	37 Benzene	78	5.134	5.134	(0.925)	384986	50.0000	43.05
	38 Trichloroethene	130	5.786	5.786	(1.043)	94325	50.0000	42.85
	39 Bromodichloromethane	83	6.277	6.277	(1.131)	108085	50.0000	44.94
	40 Methyl Methacrylate	41	5.824	5.824	(1.210)	40868	50.0000	45.19
	41 2-Chloroethylvinyl ether	63	6.573	6.573	(1.184)	68266	100.000	87.04
	42 1,2-Dichloropropane	63	6.007	6.007	(1.082)	102299	50.0000	43.37
	43 2-Nitropropane	43	6.506	6.506	(1.352)	20155	50.0000	45.31
	44 Dibromomethane	93	6.116	6.116	(1.102)	59890	50.0000	43.73
	45 4-Methyl-2-Pentanone	43	6.851	6.851	(0.837)	216599	100.000	93.84
	46 cis-1,3-Dichloropropene	75	6.686	6.686	(1.205)	144653	50.0000	45.60
*	47 Chlorobenzene-d5	117	8.182	8.182	(1.000)	342949	50.0000	
$	48 Toluene-d8	98	6.918	6.918	(0.846)	378214	50.0000	57.80
	49 Ethyl Methacrylate	69	7.289	7.289	(1.313)	124713	50.0000	42.46
	50 Toluene	91	6.978	6.978	(0.853)	381938	50.0000	41.02
	51 trans-1,3-Dichloropropene	75	7.196	7.196	(1.296)	118633	50.0000	45.68
	52 2-Hexanone	43	7.589	7.589	(0.928)	141020	100.000	93.96
	53 1,1,2-Trichloroethane	83	7.353	7.353	(0.899)	75872	50.0000	46.39
	54 1,3-Dichloropropane	76	7.496	7.496	(0.916)	165148	50.0000	43.55
	55 Dibromochloromethane	129	7.690	7.690	(0.940)	87287	50.0000	43.67
	56 Tetrachloroethene	164	7.454	7.454	(0.911)	73829	50.0000	45.40
	57 1,2-Dibromoethane	107	7.780	7.780	(0.951)	90858	50.0000	44.38
	58 1-Chlorohexane	55	8.193	8.193	(1.476)	71122	50.0000	45.21
	59 Chlorobenzene	112	8.208	8.208	(1.003)	244360	50.0000	41.34
	60 1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	83909	50.0000	44.48
	61 Ethylbenzene	106	8.305	8.305	(1.015)	123134	50.0000	45.15
	62 m,p-Xylenes	106	8.406	8.406	(1.027)	314386	100.000	89.19
	63 o-Xylene	106	8.744	8.744	(1.069)	151916	50.0000	42.96
	64 Styrene	104	8.759	8.759	(1.071)	256803	50.0000	45.24
	66 Bromoform	173	8.916	8.916	(1.090)	53571	50.0000	41.53
	67 Isopropylbenzene	105	9.059	9.059	(1.107)	370755	50.0000	45.29
	68 1,1,2,2-Tetrachloroethane	83	9.325	9.325	(0.917)	129444	50.0000	43.21
$	69 4-Bromofluorobenzene	95	9.190	9.190	(1.123)	136227	50.0000	57.13
*	70 1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	180202	50.0000	
	71 1,2,3-Trichloropropane	75	9.359	9.359	(0.920)	128731	50.0000	45.83
	72 trans-1,4-Dichloro-2-butene	53	9.374	9.374	(1.146)	26311	50.0000	44.90
	73 n-Propylbenzene	91	9.411	9.411	(0.926)	439710	50.0000	45.27
	74 Bromobenzene	156	9.317	9.317	(0.916)	106362	50.0000	42.92
	75 1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	304294	50.0000	46.09

76	2-Chlorotoluene	91	9.479	9.479 (0.932)	264950	50.0000	46.88
77	4-Chlorotoluene	91	9.572	9.572 (0.941)	307455	50.0000	44.09

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
78	tert-Butylbenzene	119	9.835	9.835	(0.967)	258494	50.0000	47.41
79	1,2,4-Trimethylbenzene	105	9.876	9.876	(0.971)	306805	50.0000	45.08
81	sec-Butylbenzene	105	10.018	10.018	(0.985)	352210	50.0000	47.59
82	p-Isopropyltoluene	119	10.142	10.142	(0.997)	309038	50.0000	47.92
83	1,3-Dichlorobenzene	146	10.112	10.112	(0.994)	184683	50.0000	44.13
84	1,4-Dichlorobenzene	146	10.187	10.187	(1.002)	194154	50.0000	41.89
86	Benzyl Chloride	91	10.307	10.307	(1.260)	118374	50.0000	42.78
87	n-Butylbenzene	91	10.491	10.491	(1.032)	272718	50.0000	47.00
88	1,2-Dichlorobenzene	146	10.502	10.502	(1.033)	183390	50.0000	42.30
89	1,2-Dibromo-3-Chloropropane	155	11.165	11.165	(1.098)	16298	50.0000	43.25
90	1,2,4-Trichlorobenzene	180	11.855	11.855	(1.166)	121182	50.0000	44.36
91	Hexachlorobutadiene	225	11.998	11.998	(1.180)	54618	50.0000	49.83
92	Naphthalene	128	12.065	12.065	(1.187)	300375	50.0000	45.37
93	1,2,3-Trichlorobenzene	180	12.268	12.268	(1.206)	111168	50.0000	43.68
146	Methyl acetate	43	2.708	2.708	(0.563)	98973	50.0000	48.22
138	Freon TF	101	2.330	2.330	(0.484)	67836	50.0000	47.12
141	Cyclohexane	56	4.778	4.778	(0.993)	116571	50.0000	47.26
142	Tetrahydrofuran	42	4.542	4.542	(0.944)	36009	100.000	97.01
147	Methylcyclohexane	55	5.944	5.944	(1.071)	210669	50.0000	45.05
135	1,4-Dioxane	88	6.165	6.165	(1.281)	23221	1000.00	875.24
132	n-Butanol	56	5.824	5.824	(1.210)	56582	1000.00	809.80
136	n-Hexane	57	3.334	3.334	(0.693)	83455	50.0000	48.31
139	Diethyl ether	59	2.142	2.142	(0.445)	66502	50.0000	48.86
148	Tert-butyl alcohol	59	2.971	2.971	(0.617)	166284	1000.00	930.96
149	Isopropyl alcohol	45	2.566	2.566	(0.533)	131564	1000.00	939.26
152	Amyl alcohol	42	7.398	7.398	(0.904)	64741	1000.00	860.03
156	Diisopropyl ether	45	3.616	3.616	(0.751)	282462	50.0000	42.65
162	Butyl acrylate	55	8.729	8.729	(1.067)	157803	50.0000	43.13
187	n-Amyl acetate	43	8.928	8.928	(1.091)	162495	50.0000	43.63
164	Dicyclopentadiene	66	10.198	10.198	(1.003)	388626	50.0000	42.04
166	1,2,3-Trimethylbenzene	105	10.232	10.232	(1.006)	274962	50.0000	43.85
167	Ethanol	45	2.082	2.082	(0.433)	25646	1000.00	974.42
172	tert-Butyl formate	59	5.243	5.243	(1.090)	170712	100.000	83.32
173	3,3-Dimethyl-1-butanol	57	7.780	7.780	(0.951)	196275	1000.00	822.25
174	tert-Amyl methyl ether	73	5.284	5.284	(1.098)	256178	50.0000	42.21
175	tert-Butyl ethyl ether	59	4.047	4.047	(0.841)	252179	50.0000	42.51
176	tert-Amyl alcohol	59	5.243	5.243	(1.090)	170712	1000.00	823.64
151	4-Methyl-2-pentanol	45	7.214	7.214	(1.300)	550489	1000.00	887.65
140	1,3-Butadiene	54	1.400	1.400	(0.291)	45755	50.0000	47.67
182	Epichlorohydrin	57	6.630	6.630	(1.195)	24242	200.000	183.48
M 94	1,2-Dichloroethylene (total)	96				185480	100.000	(a)
145	alpha-Methylstyrene	118	9.752	9.752	(0.959)	124458	50.0000	45.23
130	Ethyl Acetate	43	4.335	4.335	(0.901)	108443	50.0000	45.39
131	Methyl Acrylate	55	4.365	4.365	(0.907)	111275	50.0000	46.57
189	n-Butyl acetate	43	7.702	7.702	(0.941)	158048	50.0000	43.89
134	Cyclohexanone	55	9.152	9.152	(0.900)	83827	1000.00	820.42
185	Isoprene	39	2.150	2.150	(0.447)	20053	50.0000	48.56
188	Isopropyl acetate	43	5.280	5.280	(0.951)	279343	50.0000	44.34
150	Allyl alcohol	57	3.334	3.334	(0.693)	83455	1000.00	966.23
194	Acetaldehyde	44	1.456	1.456	(0.303)	81295	200.000	189.64(M)
195	Methyl Amyl Ketone	43	8.864	8.864	(1.083)	176521	50.0000	42.25
200	Dimethyl Disulfide	94	6.742	6.742	(0.824)	50136	50.0000	31.83

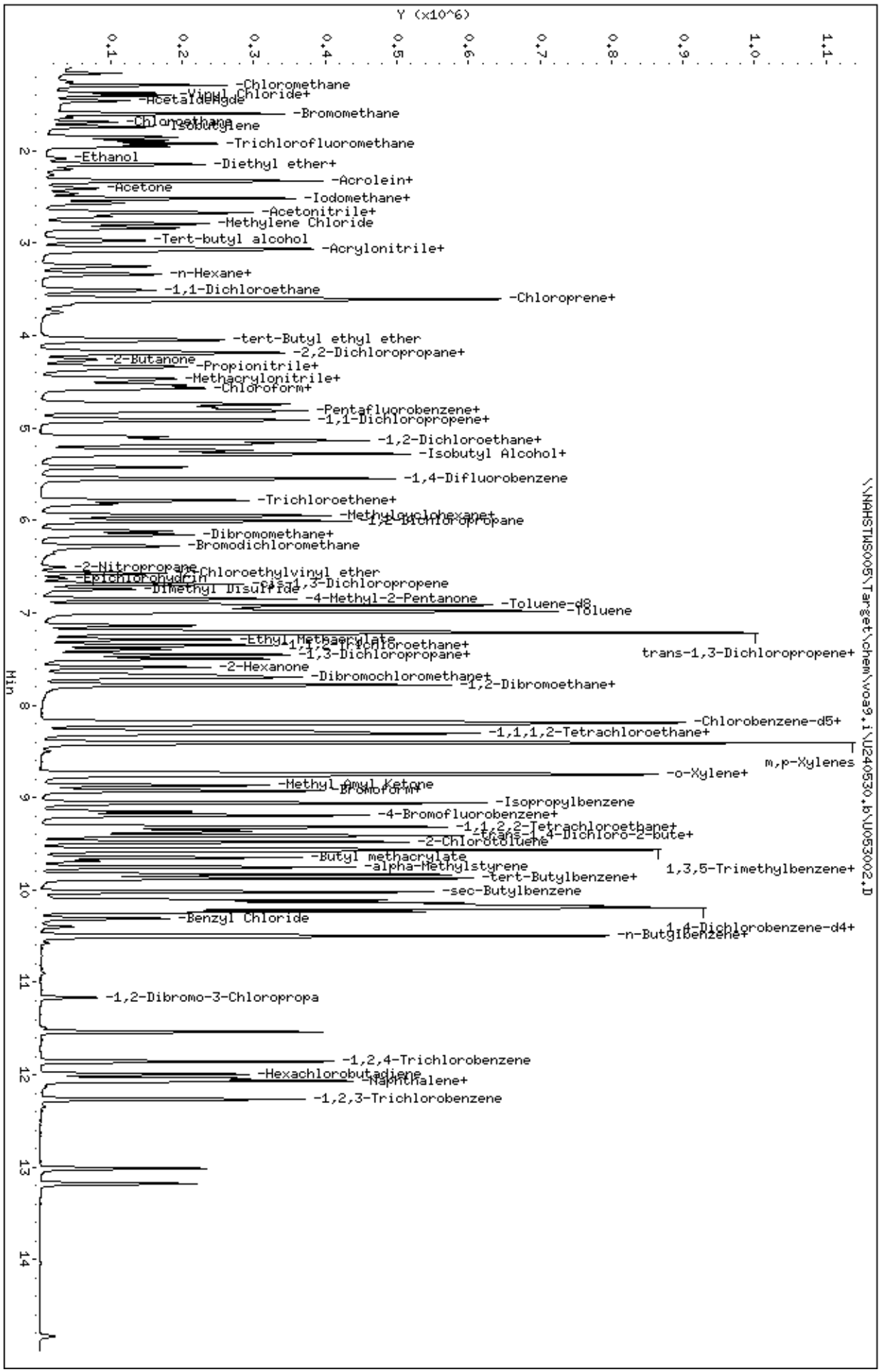
202 Isobutylene	41	1.741	1.741 (0.362)	39951	50.0000	50.09(M)
133 Ethyl Acrylate	55	5.944	5.944 (1.235)	210669	50.0000	45.88

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240530.b\U053002.D Page 4
Report Date: 24-Jun-2024 08:29

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)
163 Butyl methacrylate	41	9.647	9.647	(0.949)	92056	50.0000	44.14
159 Propylene oxide	43	2.195	2.195	(0.456)	14567	100.000	97.99
203 2-Ethylhexyl Acrylate	55	12.039	12.039	(1.184)	95897	50.0000	43.23

QC Flag Legend

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



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240530.b\U053002.D
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Client ID: VSTD050
Sample Info: VSTD050;VSTD050;2;;ICV
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9.i
Operator: TS
Column diameter: 0.18

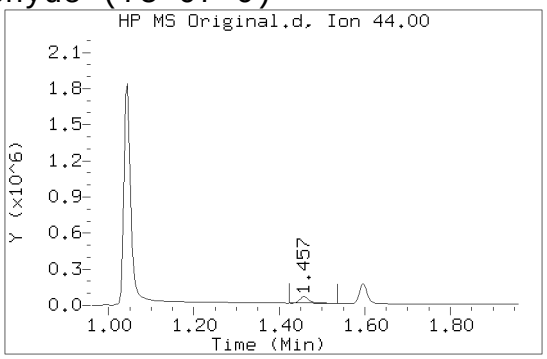
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LabSampID : VSTD050

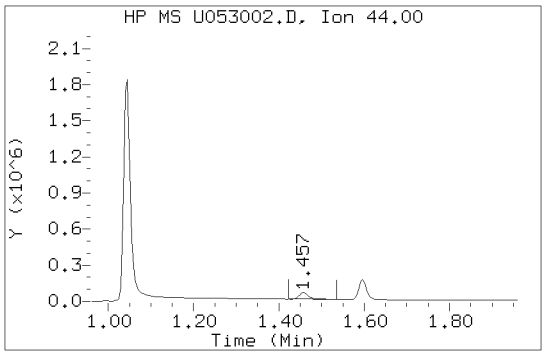
Acetaldehyde (75-07-0)

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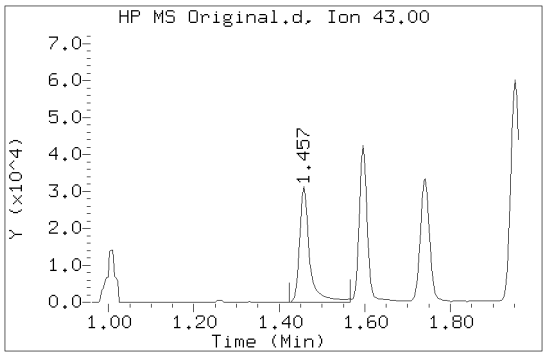
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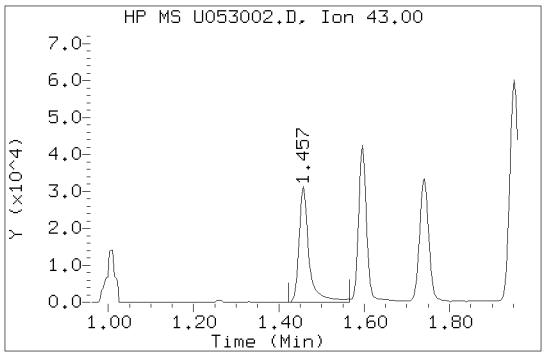
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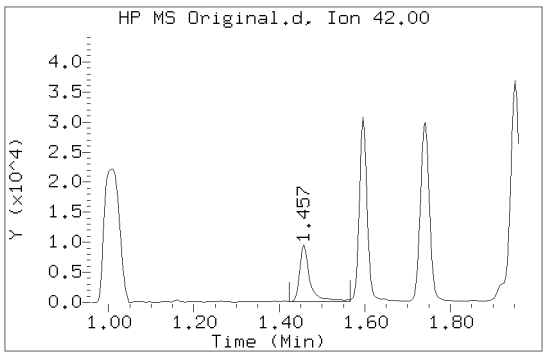
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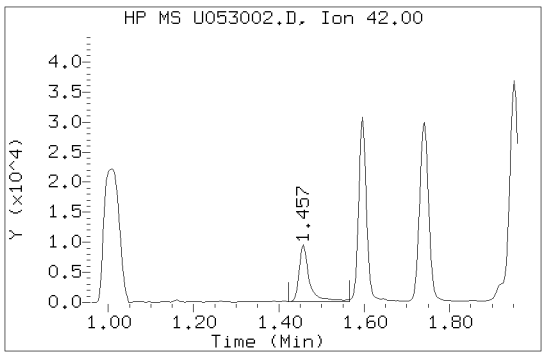
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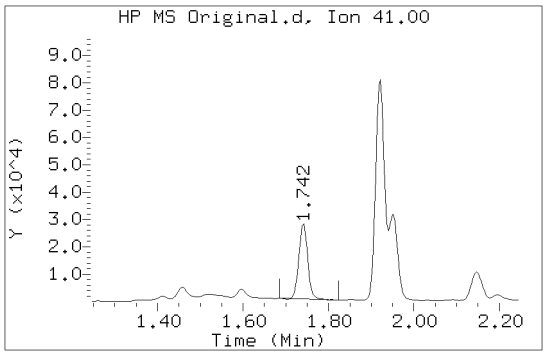
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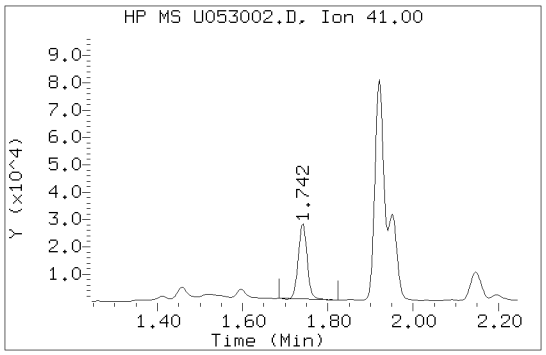
Isobutylene (115-11-7)

Reason Code:

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24-Jun-2024
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AFTER
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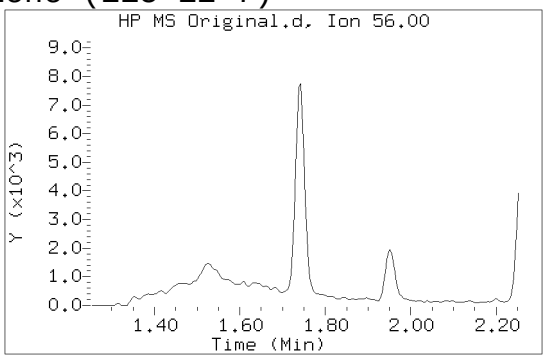
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Inj Date : 30-MAY-2024 14:58
InstruID : VOA9.i
LabSampID : VSTD050

Isobutylene (115-11-7)

Reason Code:

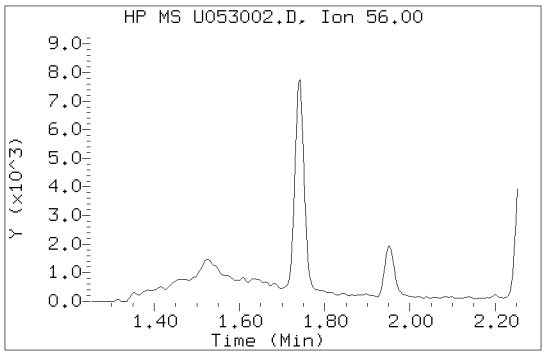
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24-Jun-2024
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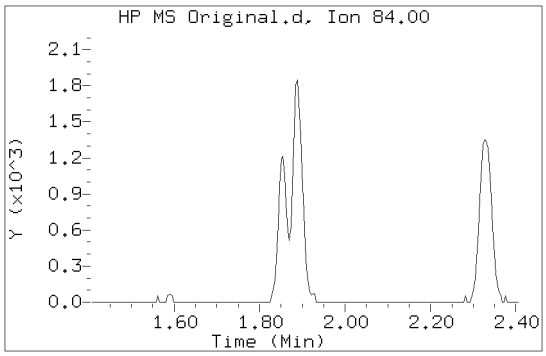
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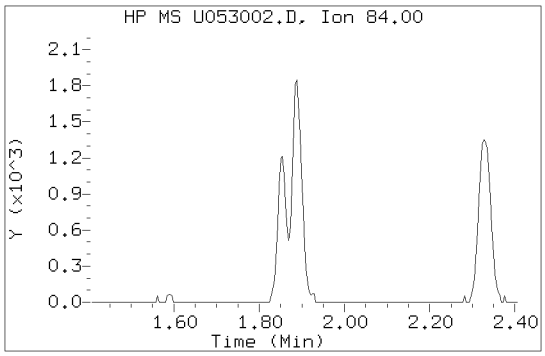
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AFTER

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24-Jun-2024
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Data File: \\NAHSTWS005\Target\chem\voa9.i\U240530.b\U053003.D Page 1
Report Date: 24-Jun-2024 08:30

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240530.b\U053003.D
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Inj Date : 30-MAY-2024 15:19
Operator : TS Inst ID: VOA9.i
Smp Info : VLCSW-240530;VLCSW-240530;3;;LCS
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240530.b\8260C.m
Meth Date : 24-Jun-2024 08:29 VOA9.i Quant Type: ISTD
Cal Date : 29-MAY-2024 11:00 Cal File: U052903.D
Als bottle: 3 QC Sample: LCS
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	4.819	4.811	(1.000)	257871	50.0000	
2 Dichlorodifluoromethane	85	1.172	1.160	(0.243)	20588	21.4164	21.41
3 Chloromethane	50	1.303	1.291	(0.270)	77078	22.0126	22.01
4 Propionitrile	54	4.343	4.332	(0.901)	56068	198.971	198.97(a)
5 Vinyl Chloride	62	1.385	1.374	(0.288)	39660	20.3665	20.36
6 Bromomethane	94	1.618	1.599	(0.336)	17984	19.9607	19.96
7 Chloroethane	64	1.704	1.689	(0.354)	28990	21.4466	21.44
8 Trichlorofluoromethane	101	1.903	1.887	(0.395)	48129	20.8128	20.81
9 Acrolein	56	2.270	2.259	(0.471)	3717	40.1644	40.16
10 Acetone	43	2.416	2.405	(0.501)	36535	45.9605	45.96
11 1,1-Dichloroethene	96	2.337	2.326	(0.485)	32036	18.8454	18.84
12 Isobutyl Alcohol	43	5.288	5.280	(1.097)	112160	412.029	412.02(a)
13 Acetonitrile	39	2.679	2.667	(0.556)	40894	195.498	195.49(a)
14 Allyl Chloride	41	2.679	2.667	(0.556)	98567	19.6734	19.67(a)
15 Iodomethane	142	2.472	2.461	(0.513)	20089	97.8405	97.84
16 Acrylonitrile	53	3.072	3.061	(0.638)	28874	40.3006	40.30
17 Methylene Chloride	84	2.798	2.787	(0.581)	40627	19.8206	19.82
18 Methyl tert-butyl ether	73	3.087	3.076	(0.641)	92436	19.3629	19.36
19 Carbon Disulfide	76	2.525	2.514	(0.524)	178649	37.4629	37.46
20 trans-1,2-Dichloroethene	96	3.065	3.053	(0.636)	35104	18.2621	18.26

21 Vinyl Acetate	43	4.347	4.335 (0.902)	45336	39.8942	39.89
22 1,1-Dichloroethane	63	3.518	3.507 (0.730)	66410	17.9843	17.98

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240530.b\U053003.D Page 2
Report Date: 24-Jun-2024 08:30

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
	23 Chloroprene	53	3.612	3.604	(0.750)	54647	20.1820	20.18
	24 2-Butanone	43	4.272	4.260	(0.886)	43000	37.3135	37.31
	25 Methacrylonitrile	41	4.500	4.493	(0.934)	21334	18.4129	18.41(a)
	26 2,2-Dichloropropane	77	4.185	4.178	(0.869)	46676	19.2582	19.25
	27 cis-1,2-Dichloroethene	96	4.200	4.189	(0.872)	42647	17.9641	17.96
	28 Chloroform	83	4.575	4.568	(0.949)	67533	18.3164	18.31
	29 Bromochloromethane	128	4.470	4.463	(0.928)	21202	19.5712	19.57
$	30 Dibromofluoromethane	113	4.752	4.744	(0.986)	93376	56.8344	56.83
	31 1,1,1-Trichloroethane	97	4.744	4.740	(0.984)	51911	20.1048	20.10
	32 1,1-Dichloropropene	75	4.924	4.916	(0.887)	52141	19.2795	19.27
	33 1,2-Dichloroethane	62	5.179	5.171	(0.933)	54192	19.8693	19.86
	34 Carbon Tetrachloride	117	4.913	4.909	(0.885)	39263	18.5330	18.53
$	35 1,2-Dichloroethane-d4	65	5.100	5.093	(1.058)	109978	55.4459	55.44
*	36 1,4-Difluorobenzene	114	5.554	5.550	(1.000)	373397	50.0000	
	37 Benzene	78	5.141	5.134	(0.926)	166009	18.8754	18.87
	38 Trichloroethene	130	5.790	5.786	(1.043)	39537	18.2646	18.26
	39 Bromodichloromethane	83	6.277	6.277	(1.130)	41367	17.4881	17.48
	40 Methyl Methacrylate	41	5.827	5.824	(1.209)	16870	19.3437	19.34(a)
	41 2-Chloroethylvinyl ether	63	6.577	6.573	(1.184)	23734	33.7805	33.78
	42 1,2-Dichloropropane	63	6.011	6.007	(1.082)	42473	18.3103	18.31
	43 2-Nitropropane	43	6.510	6.506	(1.351)	7681	18.9457	18.94
	44 Dibromomethane	93	6.120	6.116	(1.102)	24700	18.3368	18.33
	45 4-Methyl-2-Pentanone	43	6.855	6.851	(0.837)	83654	37.8056	37.80
	46 cis-1,3-Dichloropropene	75	6.690	6.686	(1.205)	54009	18.1663	18.16
*	47 Chlorobenzene-d5	117	8.185	8.182	(1.000)	335824	50.0000	
$	48 Toluene-d8	98	6.922	6.918	(0.846)	355363	55.4708	55.47(M)
	49 Ethyl Methacrylate	69	7.289	7.289	(1.312)	48907	16.9330	16.93(a)
	50 Toluene	91	6.982	6.978	(0.853)	160678	17.6261	17.62
	51 trans-1,3-Dichloropropene	75	7.196	7.196	(1.296)	43290	18.0205	18.02
	52 2-Hexanone	43	7.589	7.589	(0.927)	58315	41.3393	41.33
	53 1,1,2-Trichloroethane	83	7.353	7.353	(0.898)	31285	19.4615	19.46
	54 1,3-Dichloropropane	76	7.499	7.496	(0.916)	66690	17.9605	17.96
	55 Dibromochloromethane	129	7.691	7.690	(0.940)	32002	17.1773	17.17
	56 Tetrachloroethene	164	7.454	7.454	(0.911)	31441	19.7482	19.74
	57 1,2-Dibromoethane	107	7.784	7.780	(0.951)	37150	18.5312	18.53
	58 1-Chlorohexane	55	8.193	8.193	(1.475)	31125	19.9811	19.98
	59 Chlorobenzene	112	8.208	8.208	(1.003)	103654	17.9087	17.90
	60 1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	33395	18.0809	18.08
	61 Ethylbenzene	106	8.305	8.305	(1.015)	52048	19.7300	19.72
	62 m,p-Xylenes	106	8.407	8.406	(1.027)	130310	37.6119	37.61
	63 o-Xylene	106	8.744	8.744	(1.068)	63480	18.7962	18.79
	64 Styrene	104	8.759	8.759	(1.070)	104013	18.7124	18.71
	66 Bromoform	173	8.916	8.916	(1.089)	18703	16.0927	16.09
	67 Isopropylbenzene	105	9.059	9.059	(1.107)	155648	19.4181	19.41
	68 1,1,2,2-Tetrachloroethane	83	9.325	9.325	(0.917)	53737	18.3060	18.30
$	69 4-Bromofluorobenzene	95	9.194	9.190	(1.123)	131372	56.2628	56.26(M)
*	70 1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	176600	50.0000	
	71 1,2,3-Trichloropropane	75	9.362	9.359	(0.921)	48515	17.6246	17.62
	72 trans-1,4-Dichloro-2-butene	53	9.377	9.374	(1.146)	10577	18.4341	18.43(a)
	73 n-Propylbenzene	91	9.411	9.411	(0.926)	182472	19.1732	19.17
	74 Bromobenzene	156	9.317	9.317	(0.916)	44354	18.2648	18.26
	75 1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	124076	19.2847	19.28

76	2-Chlorotoluene	91	9.482	9.479 (0.933)	112116	20.2231	20.22
77	4-Chlorotoluene	91	9.576	9.572 (0.942)	129281	18.9194	18.91

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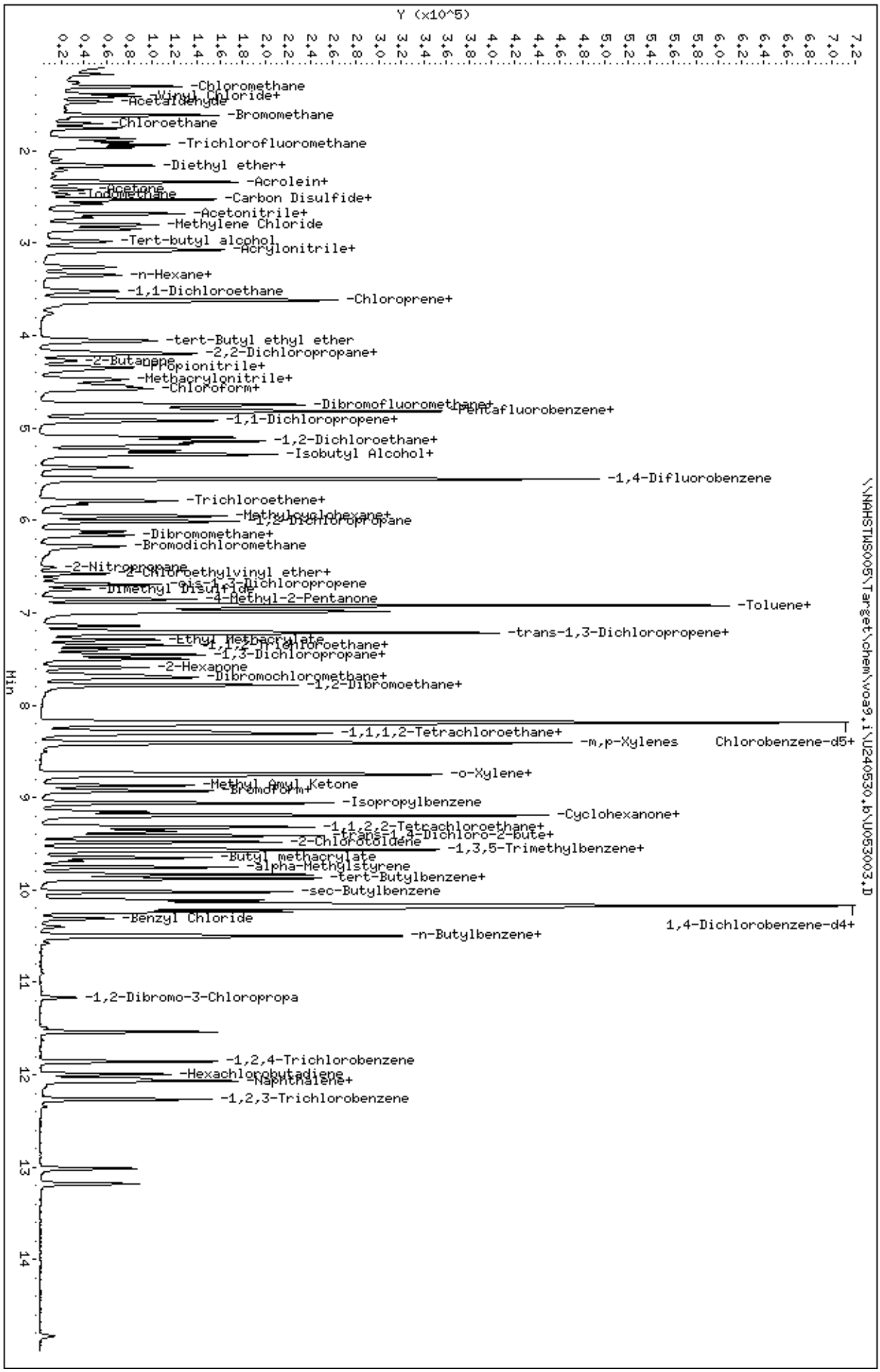
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
78	tert-Butylbenzene	119	9.835	9.835	(0.967)	106642	19.9582	19.95
79	1,2,4-Trimethylbenzene	105	9.876	9.876	(0.971)	126204	18.0961	18.09
81	sec-Butylbenzene	105	10.018	10.018	(0.985)	144248	19.8913	19.89
82	p-Isopropyltoluene	119	10.146	10.142	(0.998)	125261	19.8216	19.82
83	1,3-Dichlorobenzene	146	10.112	10.112	(0.994)	76994	18.7753	18.77
84	1,4-Dichlorobenzene	146	10.191	10.187	(1.002)	81084	17.8542	17.85
86	Benzyl Chloride	91	10.311	10.307	(1.260)	42522	16.8518	16.85
87	n-Butylbenzene	91	10.491	10.491	(1.032)	109435	19.7337	19.73
88	1,2-Dichlorobenzene	146	10.502	10.502	(1.033)	78641	18.5091	18.50
89	1,2-Dibromo-3-Chloropropane	155	11.166	11.165	(1.098)	6160	17.5955	17.59
90	1,2,4-Trichlorobenzene	180	11.855	11.855	(1.166)	49249	18.3961	18.39
91	Hexachlorobutadiene	225	11.994	11.998	(1.180)	20825	19.3874	19.38
92	Naphthalene	128	12.065	12.065	(1.187)	122494	19.0664	19.06
93	1,2,3-Trichlorobenzene	180	12.268	12.268	(1.206)	46934	18.8189	18.81
146	Methyl acetate	43	2.720	2.708	(0.564)	42476	20.9644	20.96
138	Freon TF	101	2.341	2.330	(0.486)	28437	20.4691	20.46
141	Cyclohexane	56	4.785	4.778	(0.993)	51625	20.7618	20.76
142	Tetrahydrofuran	42	4.549	4.542	(0.944)	14524	38.9700	38.96
147	Methylcyclohexane	55	5.947	5.944	(1.071)	83269	18.7965	18.79
135	1,4-Dioxane	88	6.169	6.165	(1.280)	10264	386.105	386.10
132	n-Butanol	56	5.827	5.824	(1.209)	22290	320.870	320.87(a)
136	n-Hexane	57	3.346	3.334	(0.694)	33838	20.4452	20.44
139	Diethyl ether	59	2.154	2.142	(0.447)	27081	20.0304	20.03
148	Tert-butyl alcohol	59	2.978	2.971	(0.618)	69748	391.992	391.99
149	Isopropyl alcohol	45	2.574	2.566	(0.534)	54179	391.056	391.05
152	Amyl alcohol	42	7.398	7.398	(0.904)	25701	367.567	367.56
156	Diisopropyl ether	45	3.627	3.616	(0.753)	117179	17.7971	17.79
162	Butyl acrylate	55	8.733	8.729	(1.067)	63498	18.6641	18.66
187	n-Amyl acetate	43	8.931	8.928	(1.091)	68162	18.6930	18.69
164	Dicyclopentadiene	66	10.198	10.198	(1.003)	161560	17.8367	17.83
166	1,2,3-Trimethylbenzene	105	10.232	10.232	(1.006)	114779	19.1069	19.10
167	Ethanol	45	2.094	2.082	(0.435)	10629	407.642	407.64
172	tert-Butyl formate	59	5.246	5.243	(1.089)	68371	33.5652	33.56
173	3,3-Dimethyl-1-butanol	57	7.780	7.780	(0.951)	80199	343.108	343.10
174	tert-Amyl methyl ether	73	5.288	5.284	(1.097)	106982	17.7302	17.73
175	tert-Butyl ethyl ether	59	4.054	4.047	(0.841)	102014	17.2969	17.29
176	tert-Amyl alcohol	59	5.246	5.243	(1.089)	68371	331.791	331.79
151	4-Methyl-2-pentanol	45	7.214	7.214	(1.299)	216198	370.689	370.68
140	1,3-Butadiene	54	1.411	1.400	(0.293)	20368	21.3477	21.34
182	Epichlorohydrin	57	6.630	6.630	(1.194)	9560	77.0225	77.02
M 94	1,2-Dichloroethylene (total)	96				77751	36.1949	36.19
M 95	Xylenes (total)	106				193790	57.1385	57.13
145	alpha-Methylstyrene	118	9.752	9.752	(0.959)	48418	18.6179	18.61
130	Ethyl Acetate	43	4.347	4.335	(0.902)	45336	19.0880	19.08
131	Methyl Acrylate	55	4.377	4.365	(0.908)	45630	19.4292	19.42
189	n-Butyl acetate	43	7.706	7.702	(0.941)	62909	17.8439	17.84
134	Cyclohexanone	55	9.152	9.152	(0.900)	39130	398.661	398.66(a)
185	Isoprene	39	2.161	2.150	(0.449)	8742	22.0193	22.01
188	Isopropyl acetate	43	5.288	5.280	(0.952)	110258	17.7963	17.79
150	Allyl alcohol	57	3.346	3.334	(0.694)	33838	408.903	408.90
194	Acetaldehyde	44	1.468	1.456	(0.305)	73213	172.292	172.29
195	Methyl Amyl Ketone	43	8.868	8.864	(1.083)	74830	18.2915	18.29

200 Dimethyl Disulfide	94	6.746	6.742 (0.824)	16073	13.9934	13.99
133 Ethyl Acrylate	55	5.947	5.944 (1.234)	83269	18.8997	18.89

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
163 Butyl methacrylate	41	9.647	9.647	(0.949)	45031	22.0368	22.03
159 Propylene oxide	43	2.206	2.195	(0.458)	7096	48.0706	48.07
203 2-Ethylhexyl Acrylate	55	12.039	12.039	(1.184)	35325	17.6401	17.64

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-240530;VLCSW-240530;3;;LCS
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Column phase: DB624

Instrument: VOA9,i
Operator: TS
Column diameter: 0.18

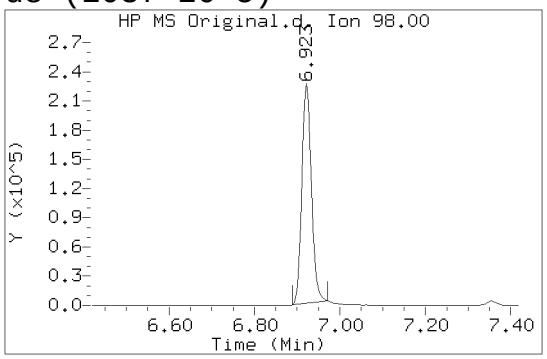
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LabSampID : VLCSW-240530

Toluene-d8 (2037-26-5)

Reason Code:

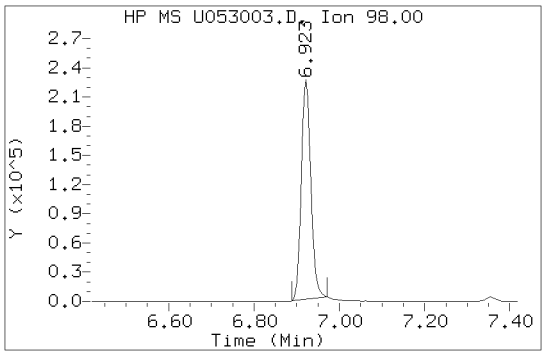
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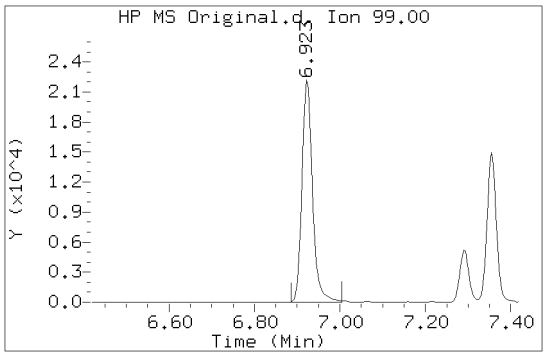
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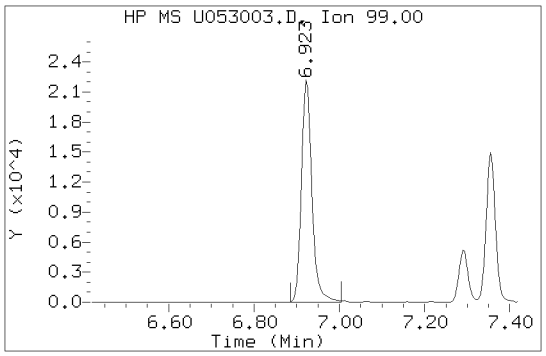
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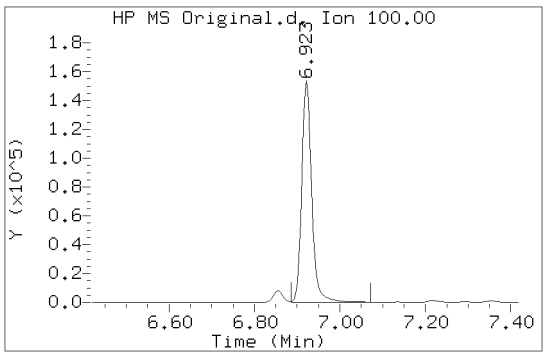
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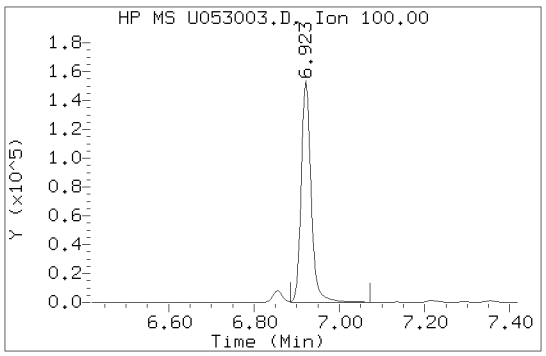
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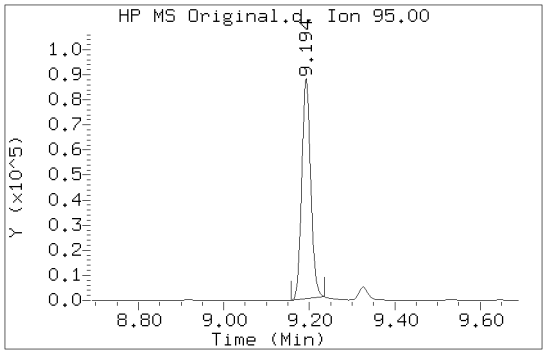


4-Bromofluorobenzene (460-00-4)

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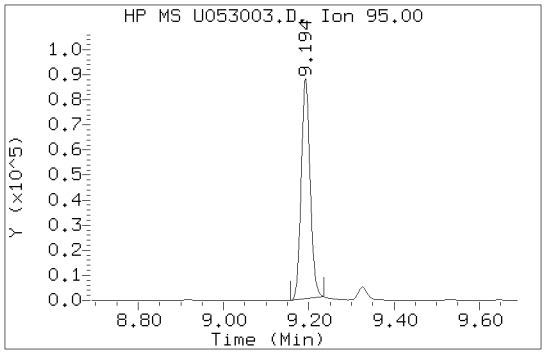
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AFTER

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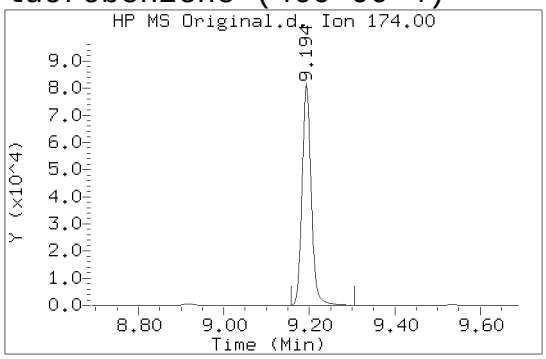
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InstruID : VOA9.i
LabSampID : VLCSW-240530

4-Bromofluorobenzene (460-00-4)

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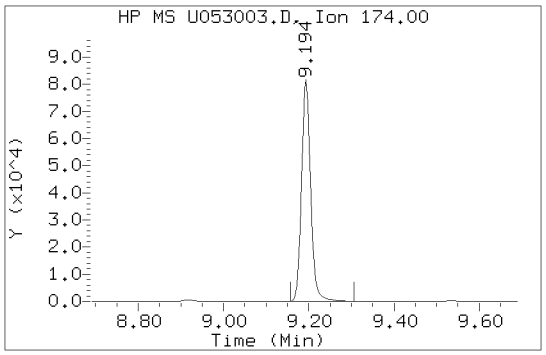
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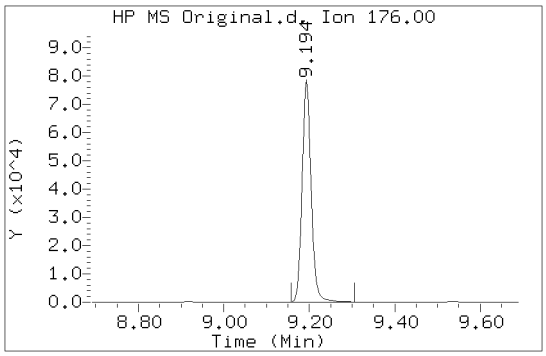
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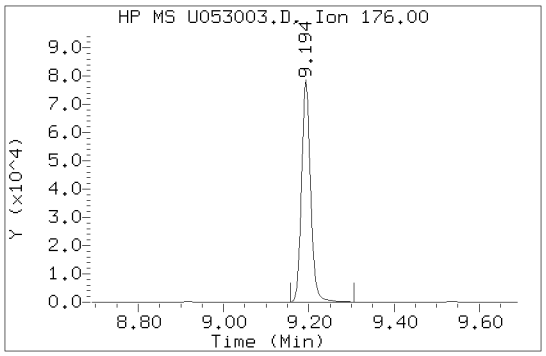
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AFTER

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patel



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240530.b\U053006.D Page 1
Report Date: 24-Jun-2024 08:30

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240530.b\U053006.D
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Misc Info : V9;WATER;0;1;
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Cal Date : 29-MAY-2024 11:00 Cal File: U052903.D
Als bottle: 5 QC Sample: BLANK
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
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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	4.808	4.811	(1.000)	256457	50.0000	
$ 30 Dibromofluoromethane	113	4.744	4.744	(0.987)	91148	55.8073	55.80
$ 35 1,2-Dichloroethane-d4	65	5.093	5.093	(1.059)	114741	58.1449	58.14
* 36 1,4-Difluorobenzene	114	5.546	5.550	(1.000)	374060	50.0000	
* 47 Chlorobenzene-d5	117	8.182	8.182	(1.000)	336108	50.0000	
$ 48 Toluene-d8	98	6.918	6.918	(0.846)	358899	55.9735	55.97(M)
$ 69 4-Bromofluorobenzene	95	9.190	9.190	(1.123)	131699	56.3554	56.35
* 70 1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	171697	50.0000	

QC Flag Legend

M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240530.b\U053006.D

Date : 30-MAY-2024 16:25

Client ID: VBLKW-240530

Instrument: VOA9.i

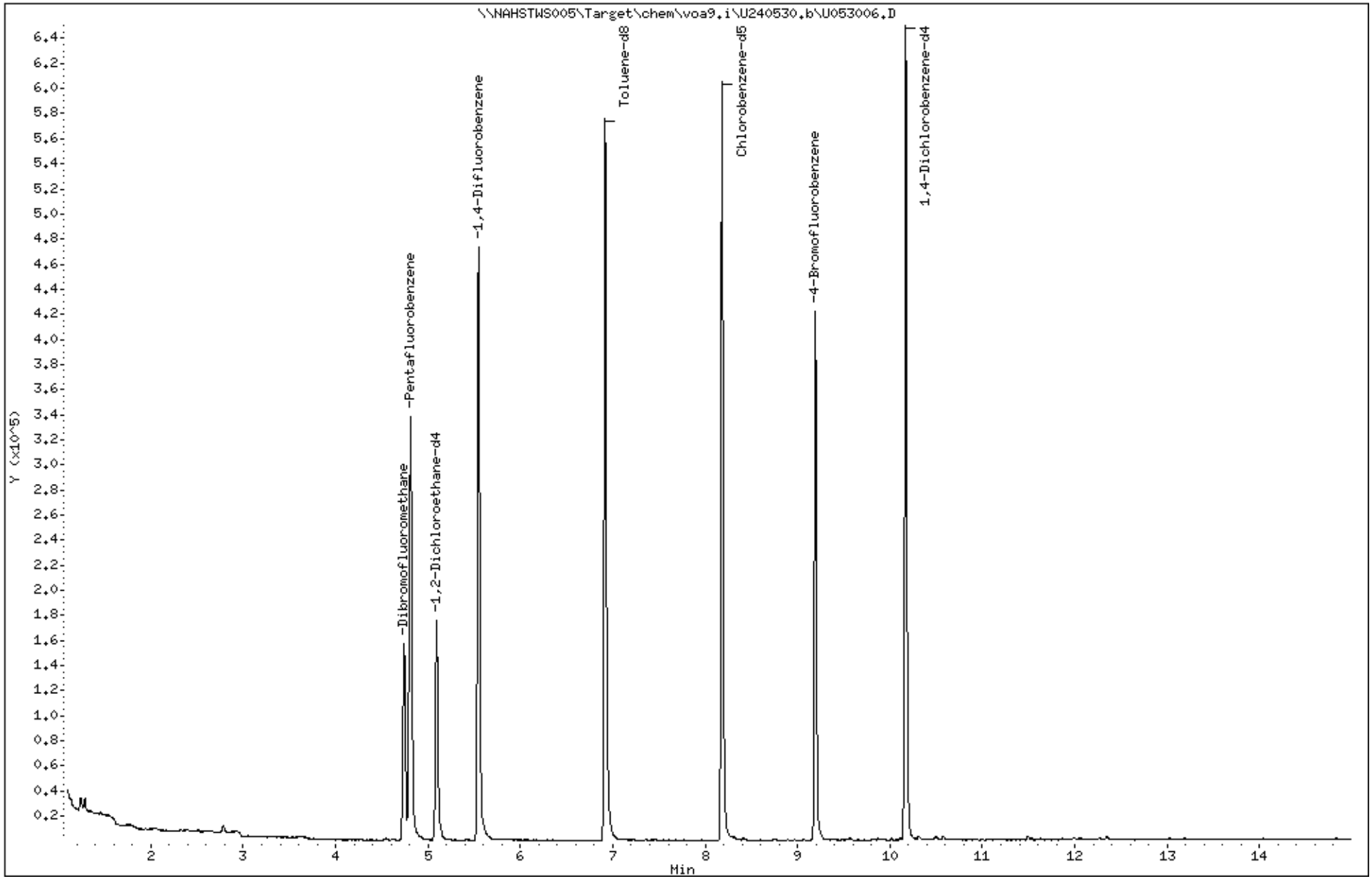
Sample Info: VBLKW-240530;VBLKW-240530;3;;BLANK

Purge Volume: 5.0

Operator: TS

Column phase: DB624

Column diameter: 0.18

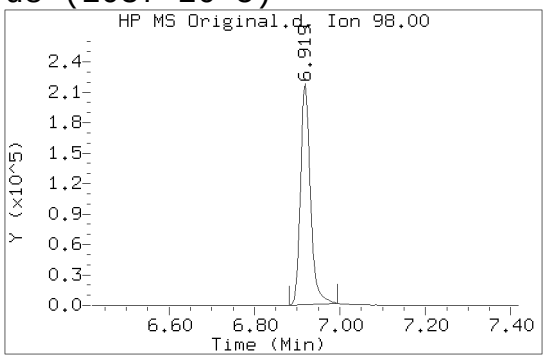


Data File : \\NAHSTWS005\Target\chem\voa9.i\U240530.b\U053006.D
Inj Date : 30-MAY-2024 16:25
InstruID : VOA9.i
LabSampID : VBLKW-240530

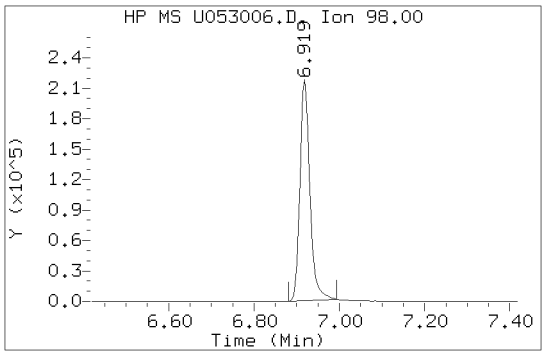
Toluene-d8 (2037-26-5)

Reason Code:

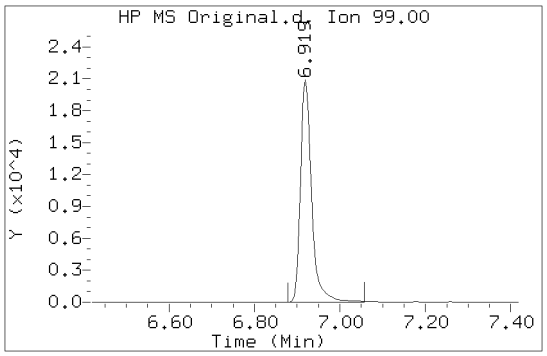
BEFORE
MASS
98
AREA
358899
HEIGHT
217695
24-Jun-2024
08:29
r
patel



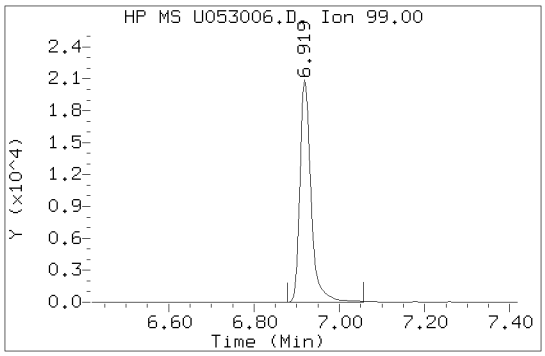
AFTER
MASS
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AREA
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HEIGHT
217695
24-Jun-2024
08:29
r
patel



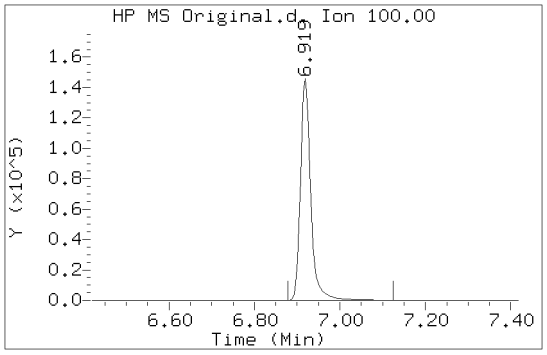
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AREA
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HEIGHT
20896
24-Jun-2024
08:29
r
patel



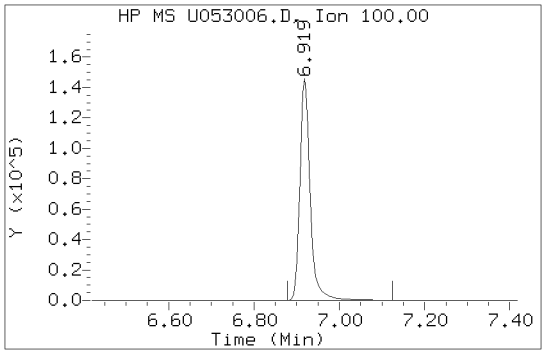
AFTER
MASS
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HEIGHT
20896
24-Jun-2024
08:29
r
patel



BEFORE
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AREA
249300
HEIGHT
145792
24-Jun-2024
08:29
r
patel



AFTER
MASS
100
AREA
249300
HEIGHT
145792
24-Jun-2024
08:29
r
patel



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240530.b\U053009.D Page 1
Report Date: 24-Jun-2024 08:30

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240530.b\U053009.D
Lab Smp Id: HS24051490-08
Inj Date : 30-MAY-2024 17:29
Operator : TS   Inst ID: VOA9.i
Smp Info : HS24051490-08
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240530.b\8260C.m
Meth Date : 24-Jun-2024 08:29 VOA9.i   Quant Type: ISTD
Cal Date : 29-MAY-2024 11:00   Cal File: U052903.D
Als bottle: 8
Dil Factor: 1.00000
Integrator: HP RTE   Compound Sublist: 8260-dryclean.sub
Target Version: 4.14
Processing Host: NAHSTW7056

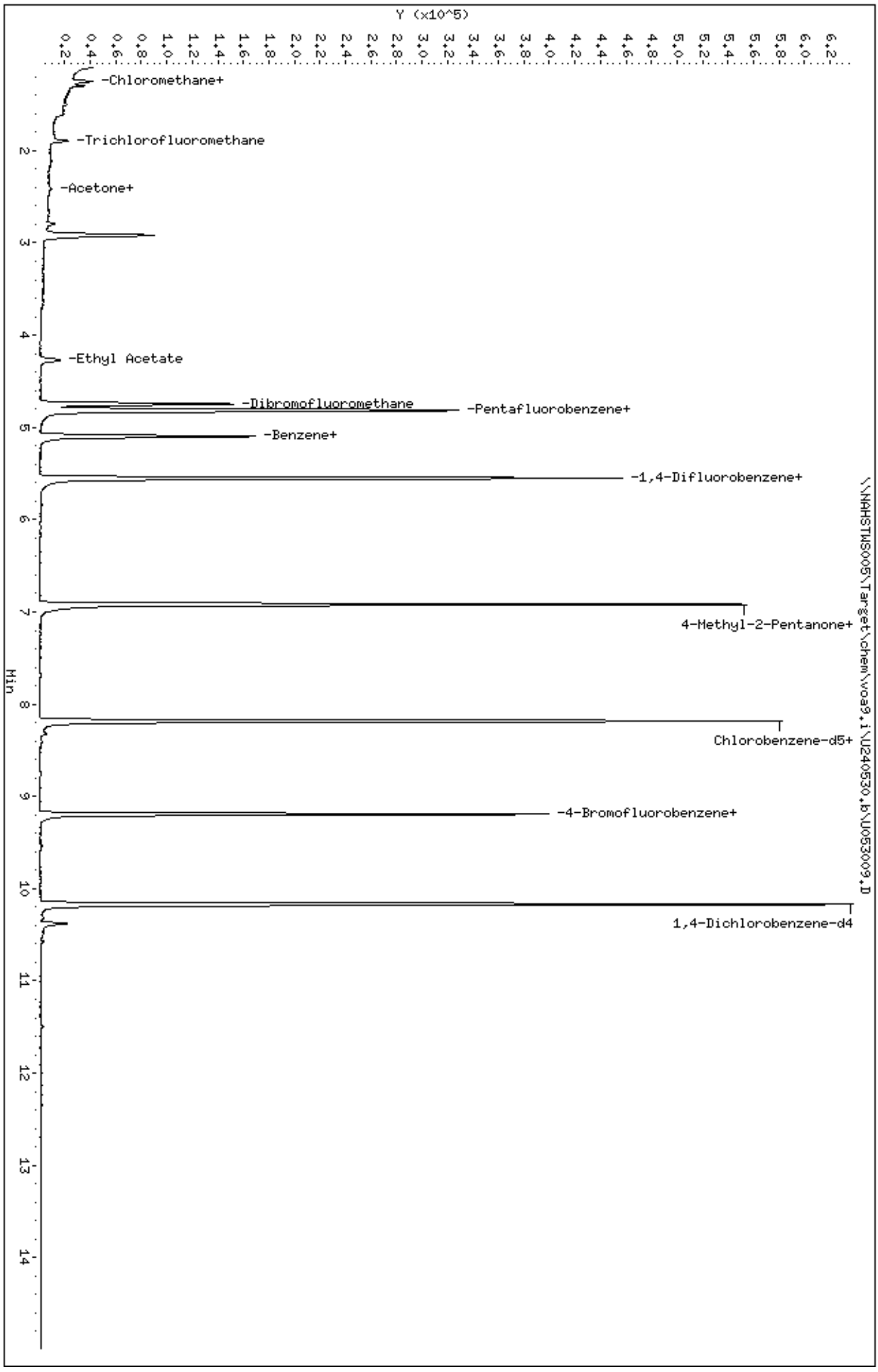
Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

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	4.815	4.811	(1.000)	243453	50.0000	
$ 30 Dibromofluoromethane	113	4.747	4.744	(0.986)	87770	56.5917	56.59
$ 35 1,2-Dichloroethane-d4	65	5.096	5.093	(1.058)	109009	58.1906	58.19(M)
* 36 1,4-Difluorobenzene	114	5.550	5.550	(1.000)	358999	50.0000	
* 47 Chlorobenzene-d5	117	8.185	8.182	(1.000)	322619	50.0000	
$ 48 Toluene-d8	98	6.922	6.918	(0.846)	342404	55.6349	55.63(M)
$ 69 4-Bromofluorobenzene	95	9.190	9.190	(1.123)	124788	55.6294	55.62
* 70 1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	165688	50.0000	

QC Flag Legend

M - Compound response manually integrated.



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240530.b\U053009.D
Date : 30-MAY-2024 17:29
Client ID:
Sample Info: HS24051490-08
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9.i
Operator: TS
Column diameter: 0.18

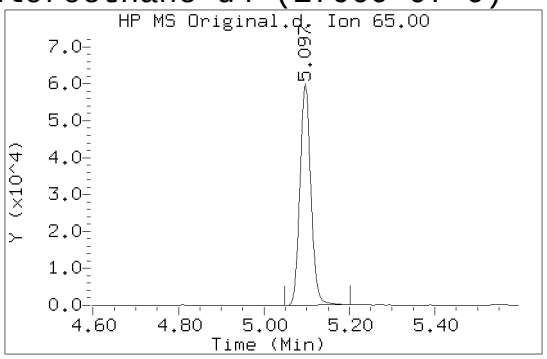
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240530.b\U053009.D
Inj Date : 30-MAY-2024 17:29
InstruID : VOA9.i
LabSampID : HS24051490-08

1,2-Dichloroethane-d4 (17060-07-0)

Reason Code:

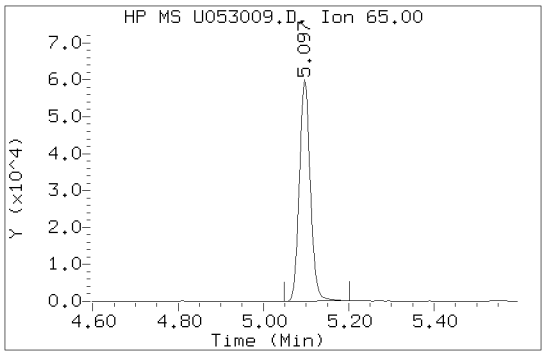
BEFORE

MASS
65
AREA
109009
HEIGHT
59981
24-Jun-2024
08:29
r
patel



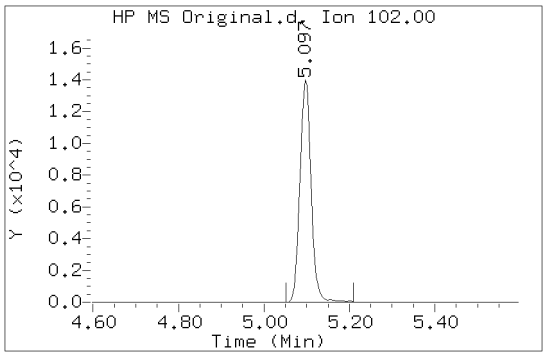
AFTER

MASS
65
AREA
109009
HEIGHT
59981
24-Jun-2024
08:29
r
patel



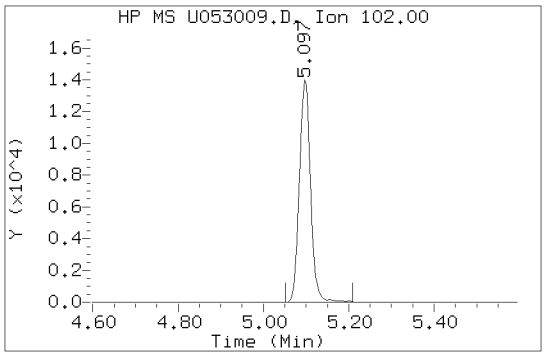
BEFORE

MASS
102
AREA
25997
HEIGHT
13995
24-Jun-2024
08:29
r
patel



AFTER

MASS
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AREA
25997
HEIGHT
13995
24-Jun-2024
08:29
r
patel

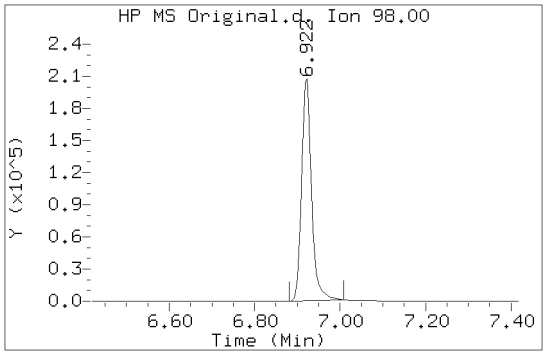


Toluene-d8 (2037-26-5)

Reason Code:

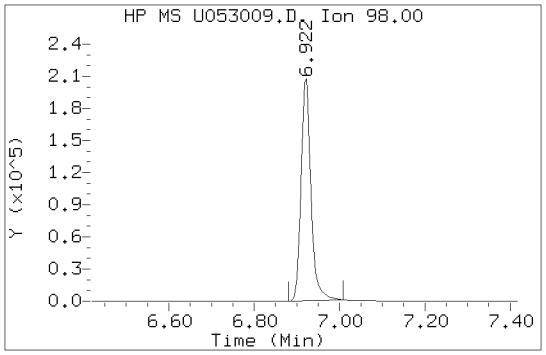
BEFORE

MASS
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AREA
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HEIGHT
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24-Jun-2024
08:29
r
patel



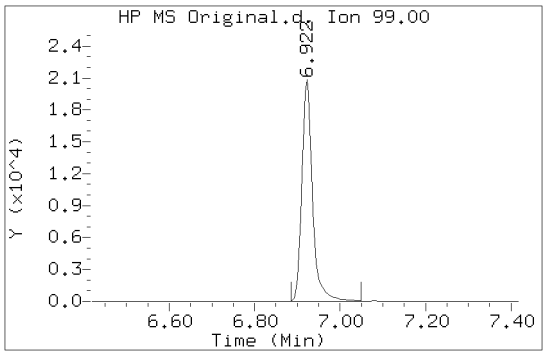
AFTER

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HEIGHT
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24-Jun-2024
08:29
r
patel



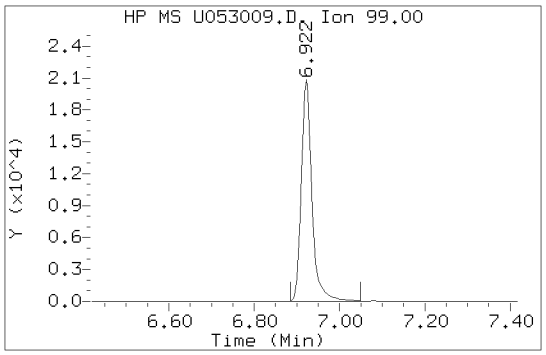
BEFORE

MASS
99
AREA
37028
HEIGHT
20840
24-Jun-2024
08:29
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patel



AFTER

MASS
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37028
HEIGHT
20840
24-Jun-2024
08:29
r
patel



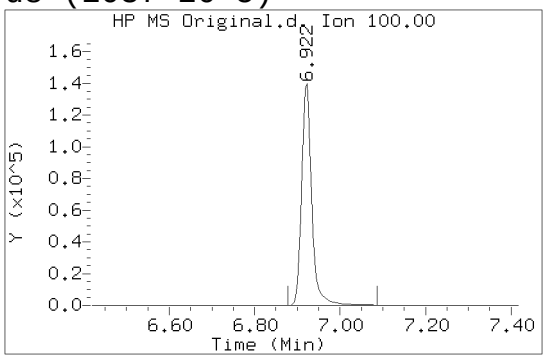
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240530.b\U053009.D
Inj Date : 30-MAY-2024 17:29
InstruID : VOA9.i
LabSampID : HS24051490-08

Toluene-d8 (2037-26-5)

Reason Code:

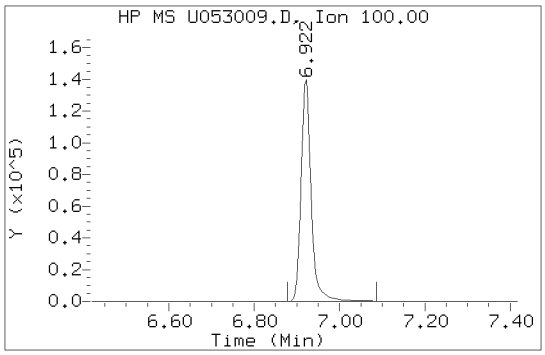
BEFORE

MASS
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AREA
235108
HEIGHT
139776
24-Jun-2024
08:29
r
patel



AFTER

MASS
100
AREA
235108
HEIGHT
139776
24-Jun-2024
08:29
r
patel



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240530.b\U053010.D Page 1
Report Date: 24-Jun-2024 08:30

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240530.b\U053010.D
Lab Smp Id: HS24051490-01
Inj Date : 30-MAY-2024 17:51
Operator : TS   Inst ID: VOA9.i
Smp Info : HS24051490-01
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240530.b\8260C.m
Meth Date : 24-Jun-2024 08:29 VOA9.i   Quant Type: ISTD
Cal Date : 29-MAY-2024 11:00   Cal File: U052903.D
Als bottle: 9
Dil Factor: 1.00000
Integrator: HP RTE   Compound Sublist: 8260-dryclean.sub
Target Version: 4.14
Processing Host: NAHSTW7056

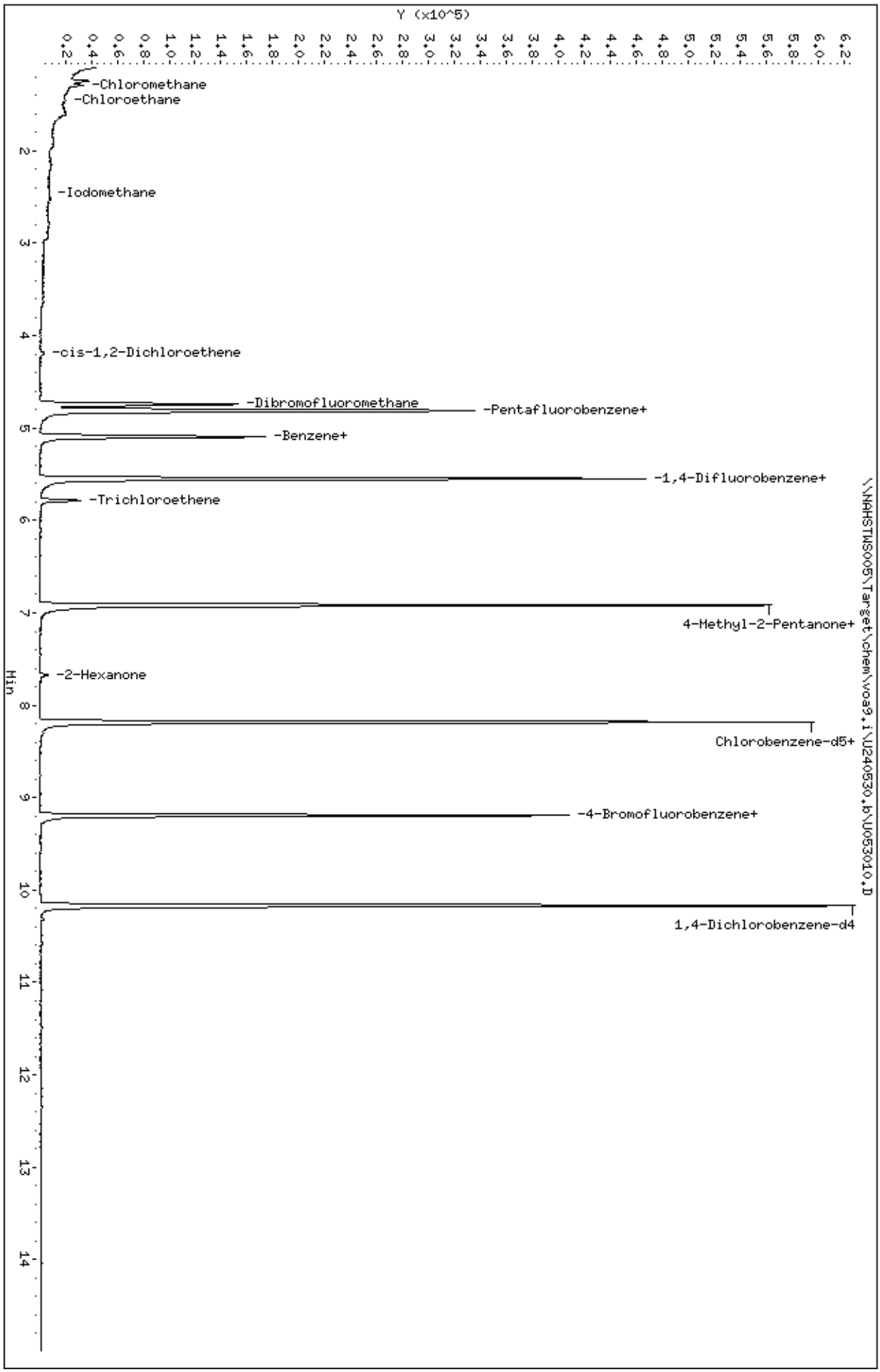
Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

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	4.811	4.811	(1.000)	247236	50.0000	
$	30 Dibromofluoromethane	113	4.744	4.744	(0.986)	89539	56.8431	56.84
$	35 1,2-Dichloroethane-d4	65	5.092	5.093	(1.058)	111601	58.6591	58.65(M)
*	36 1,4-Difluorobenzene	114	5.550	5.550	(1.000)	366657	50.0000	
*	47 Chlorobenzene-d5	117	8.181	8.182	(1.000)	329618	50.0000	
$	48 Toluene-d8	98	6.918	6.918	(0.846)	351494	55.8983	55.89(M)
$	69 4-Bromofluorobenzene	95	9.190	9.190	(1.123)	129044	56.3064	56.30
*	70 1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	167569	50.0000	
	27 cis-1,2-Dichloroethene	96	4.193	4.189	(0.871)	1450	0.63705	0.63(a)
	38 Trichloroethene	130	5.786	5.786	(1.043)	9892	4.65374	4.65(a)
M	94 1,2-Dichloroethylene (total)	96				1450	0.70404	0.70(a)

QC Flag Legend

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



Data File: \\NAHSTWS005\Target\chem\voa9,i\U240530,b\U053010.D
Date : 30-MAY-2024 17:51
Client ID:
Sample Info: HS24051490-01
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9,i
Operator: TS
Column diameter: 0.18

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240530.b\U053010.D

Date : 30-MAY-2024 17:51

Client ID:

Instrument: VOA9.i

Sample Info: HS24051490-01

Purge Volume: 5.0

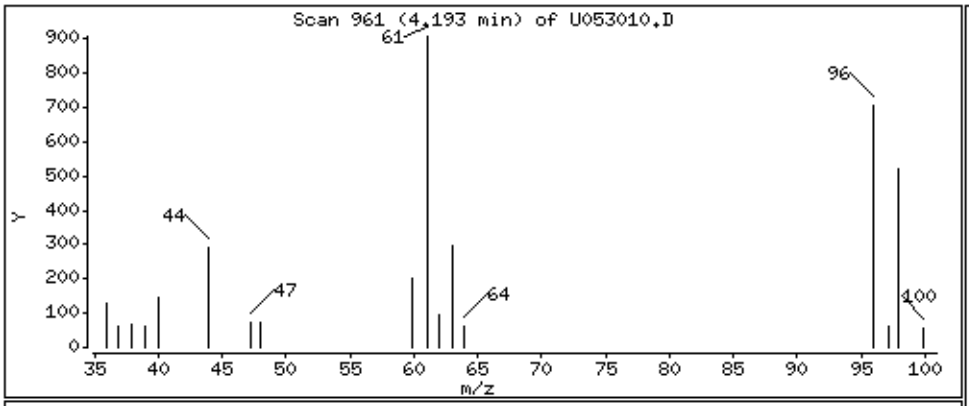
Operator: TS

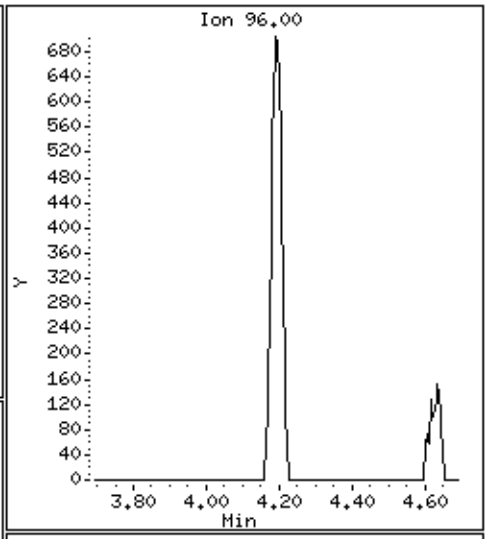
Column phase: DB624

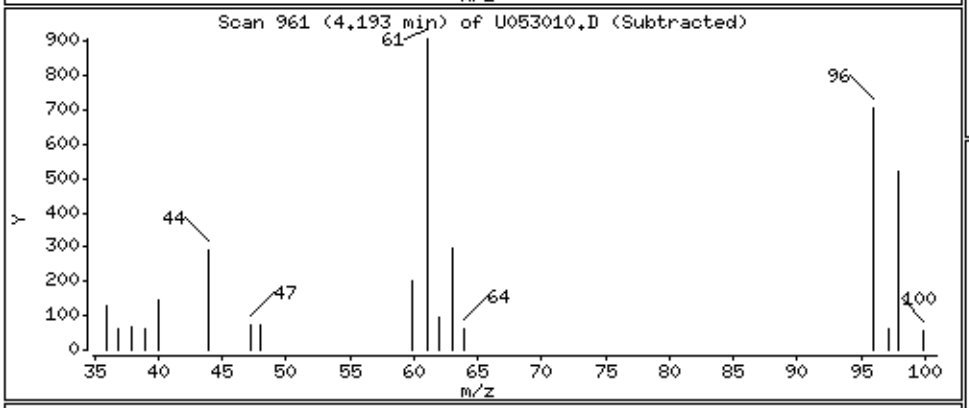
Column diameter: 0.18

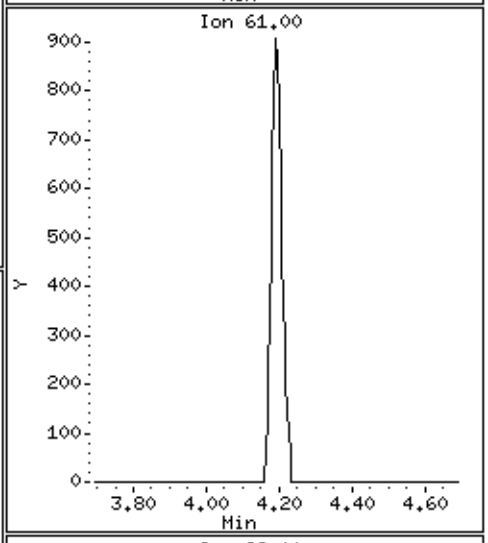
27 cis-1,2-Dichloroethene

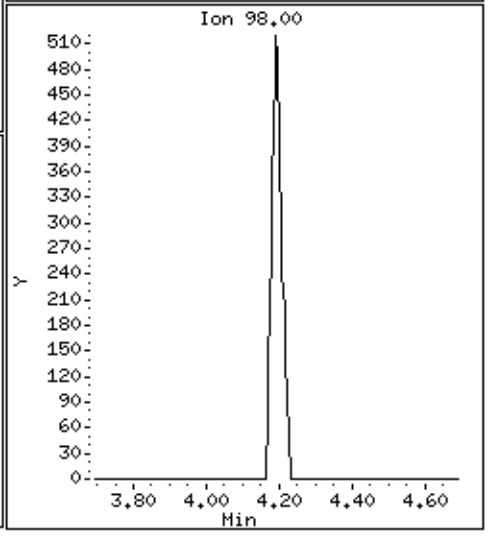
Concentration: 0.63 ug/l











Data File: \\NAHSTWS005\Target\chem\voa9.i\U240530.b\U053010.D Page 3

Date : 30-MAY-2024 17:51

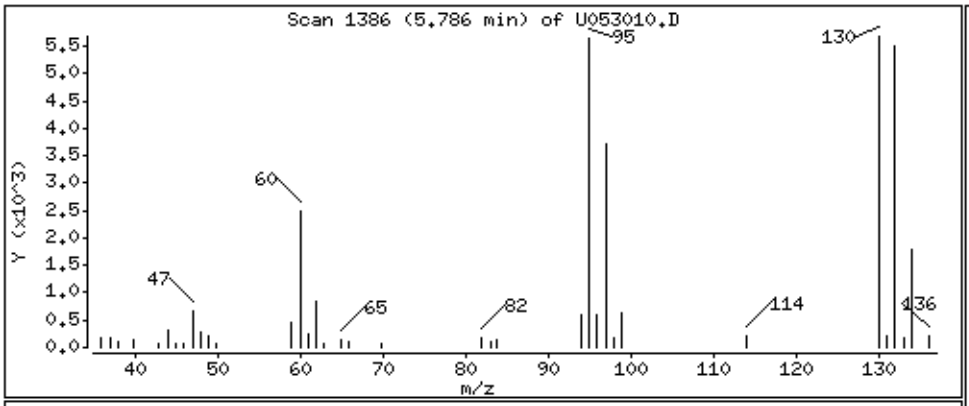
Client ID: Instrument: VOA9.i

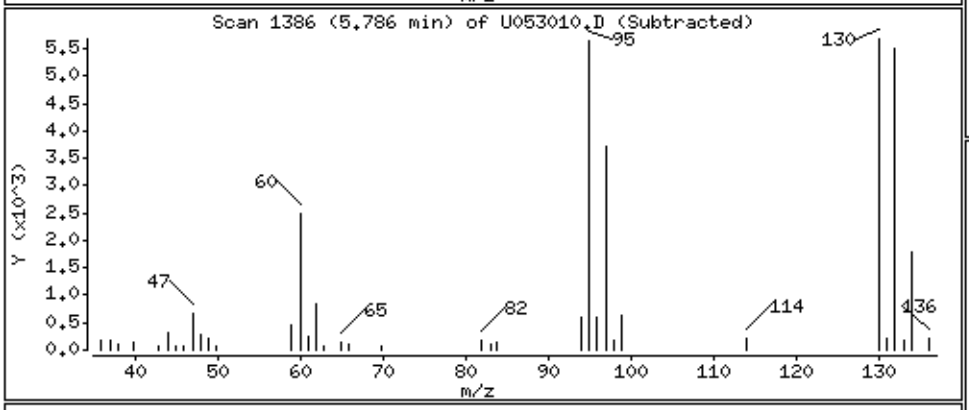
Sample Info: HS24051490-01

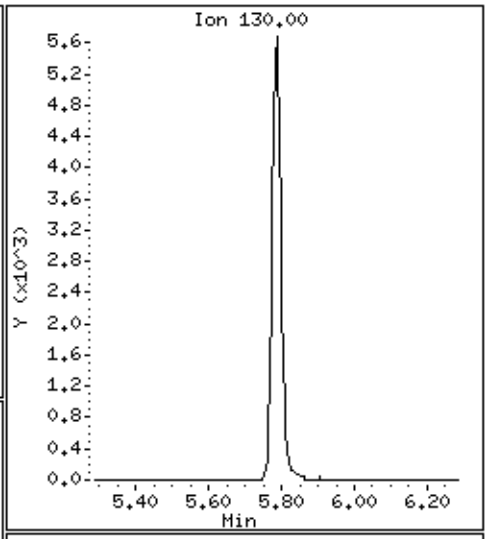
Purge Volume: 5.0 Operator: TS

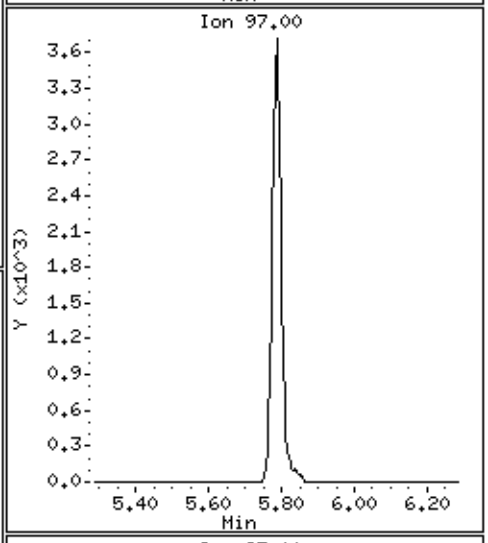
Column phase: DB624 Column diameter: 0.18

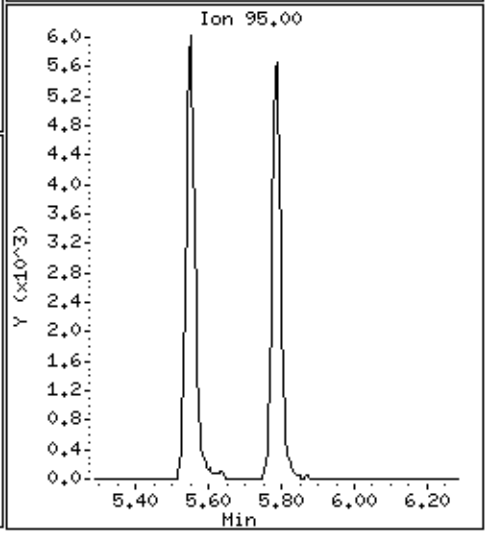
38 Trichloroethene Concentration: 4.65 ug/l











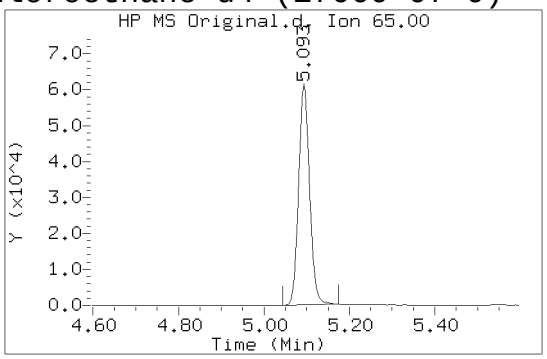
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240530.b\U053010.D
Inj Date : 30-MAY-2024 17:51
InstruID : VOA9.i
LabSampID : HS24051490-01

1,2-Dichloroethane-d4 (17060-07-0)

Reason Code:

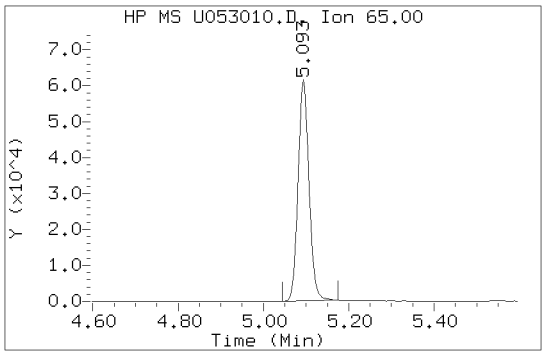
BEFORE

MASS
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AREA
111601
HEIGHT
61537
24-Jun-2024
08:29
r
patel



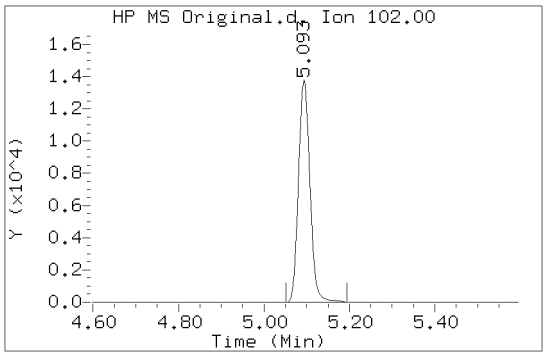
AFTER

MASS
65
AREA
111601
HEIGHT
61537
24-Jun-2024
08:29
r
patel



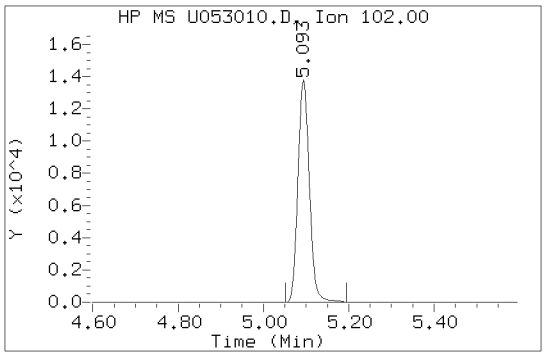
BEFORE

MASS
102
AREA
26294
HEIGHT
13798
24-Jun-2024
08:29
r
patel



AFTER

MASS
102
AREA
26294
HEIGHT
13798
24-Jun-2024
08:29
r
patel

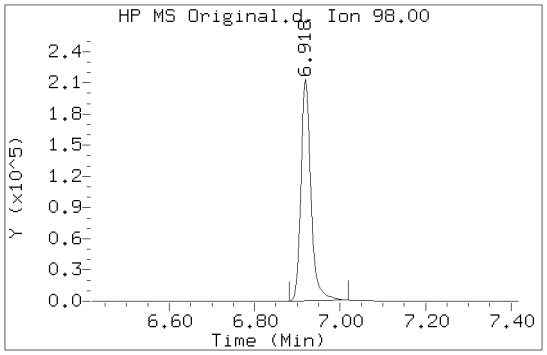


Toluene-d8 (2037-26-5)

Reason Code:

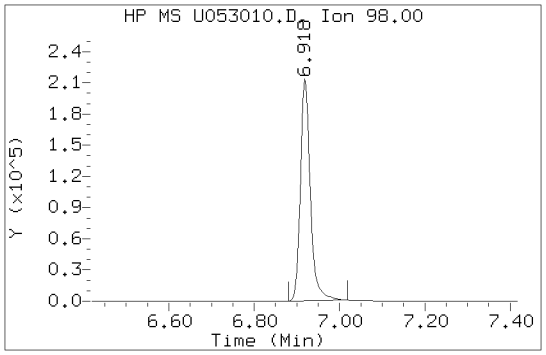
BEFORE

MASS
98
AREA
351494
HEIGHT
213429
24-Jun-2024
08:29
r
patel



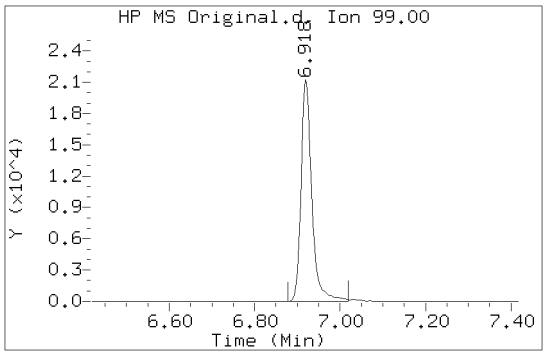
AFTER

MASS
98
AREA
351494
HEIGHT
213429
24-Jun-2024
08:29
r
patel



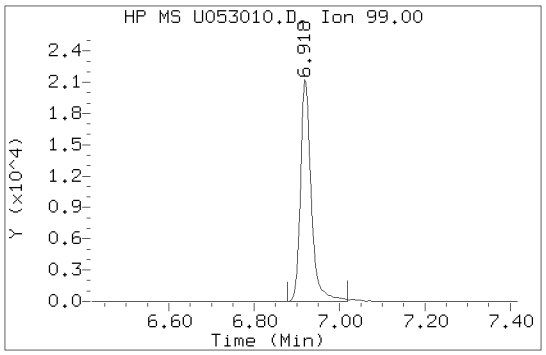
BEFORE

MASS
99
AREA
37812
HEIGHT
21240
24-Jun-2024
08:29
r
patel



AFTER

MASS
99
AREA
37812
HEIGHT
21240
24-Jun-2024
08:29
r
patel



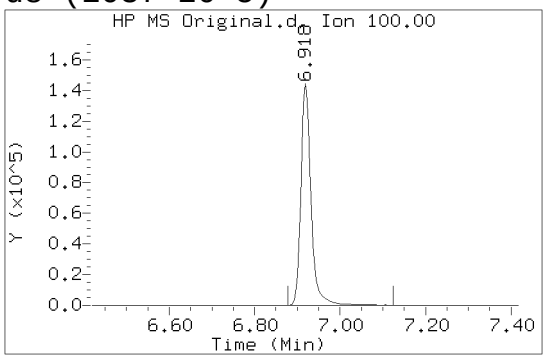
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240530.b\U053010.D
Inj Date : 30-MAY-2024 17:51
InstruID : VOA9.i
LabSampID : HS24051490-01

Toluene-d8 (2037-26-5)

Reason Code:

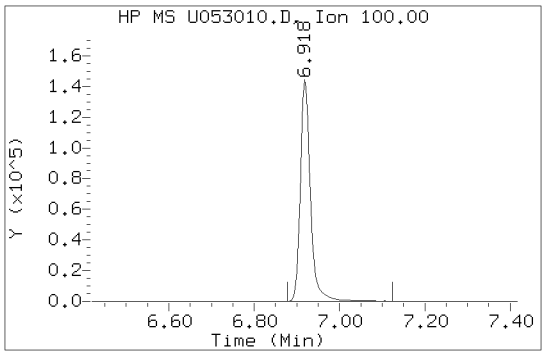
BEFORE

MASS
100
AREA
242434
HEIGHT
144448
24-Jun-2024
08:29
r
patel



AFTER

MASS
100
AREA
242434
HEIGHT
144448
24-Jun-2024
08:29
r
patel



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240530.b\U053011.D Page 1
Report Date: 24-Jun-2024 08:30

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240530.b\U053011.D
Lab Smp Id: HS24051490-06
Inj Date : 30-MAY-2024 18:12
Operator : TS Inst ID: VOA9.i
Smp Info : HS24051490-06
Misc Info : V9;WATER;0;1;
Comment :
Method : \\nahstws005\Target\chem\voa9.i\U240530.b\8260C.m
Meth Date : 24-Jun-2024 08:29 VOA9.i Quant Type: ISTD
Cal Date : 29-MAY-2024 11:00 Cal File: U052903.D
Als bottle: 10
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260-dryclean.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	4.808	4.811	(1.000)	252564	50.0000	
$ 30 Dibromofluoromethane	113	4.740	4.744	(0.986)	88400	54.9772	54.97
$ 35 1,2-Dichloroethane-d4	65	5.093	5.093	(1.059)	111761	57.5125	57.51
* 36 1,4-Difluorobenzene	114	5.546	5.550	(1.000)	367762	50.0000	
* 47 Chlorobenzene-d5	117	8.181	8.182	(1.000)	330710	50.0000	
$ 48 Toluene-d8	98	6.918	6.918	(0.846)	349175	55.3481	55.34(M)
$ 69 4-Bromofluorobenzene	95	9.190	9.190	(1.123)	125089	54.3972	54.39
* 70 1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	169228	50.0000	
38 Trichloroethene	130	5.782	5.786	(1.043)	23913	11.2162	11.21

QC Flag Legend

M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240530.b\U053011.D

Date : 30-MAY-2024 18:12

Client ID:

Instrument: VOA9.i

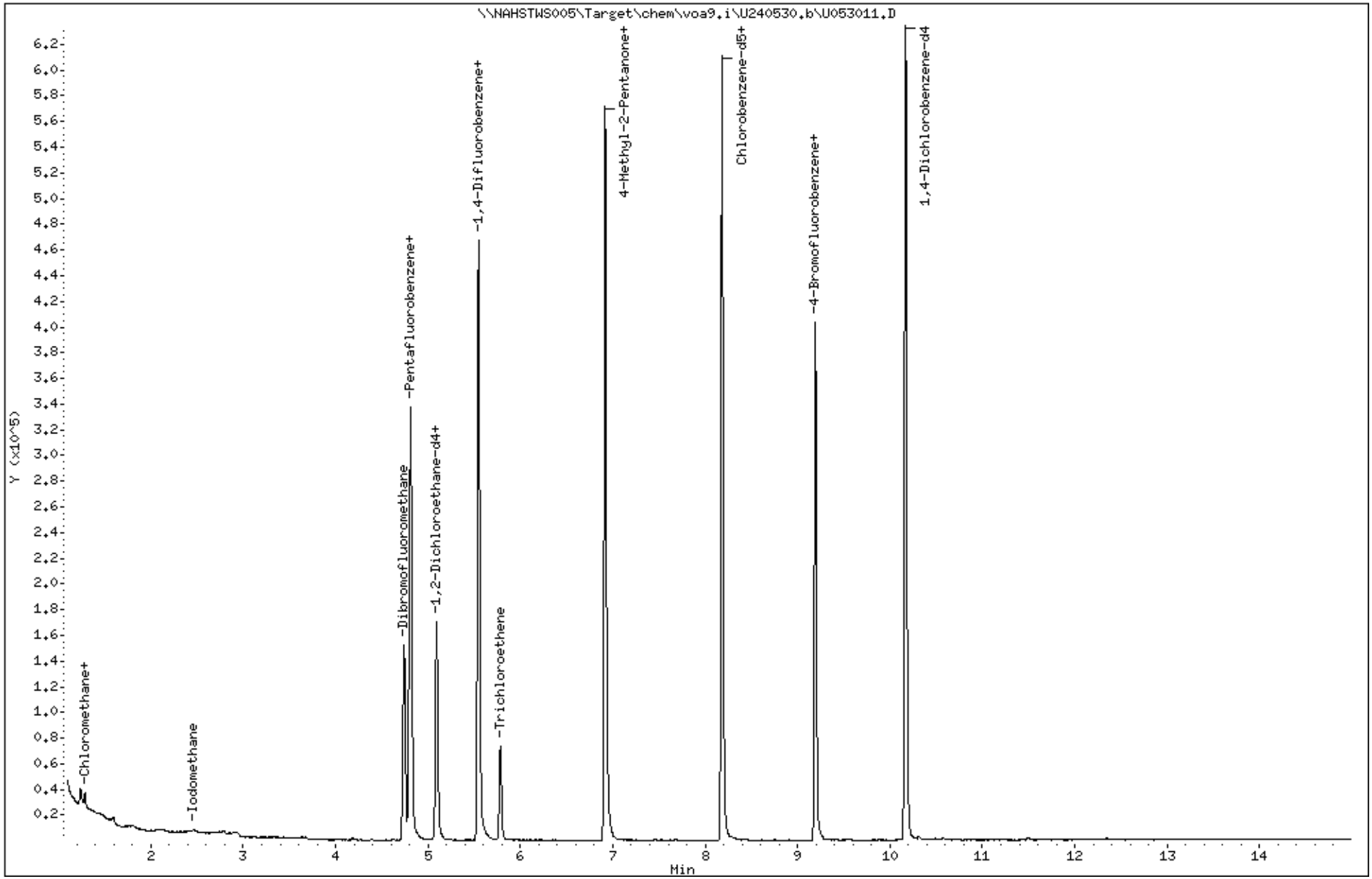
Sample Info: HS24051490-06

Purge Volume: 5.0

Operator: TS

Column phase: DB624

Column diameter: 0.18



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240530.b\U053011.D

Date : 30-MAY-2024 18:12

Client ID:

Instrument: VOA9.i

Sample Info: HS24051490-06

Purge Volume: 5.0

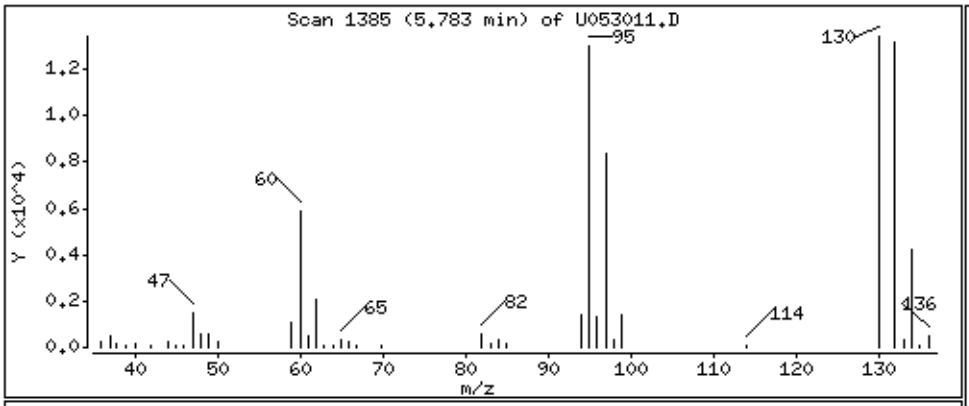
Operator: TS

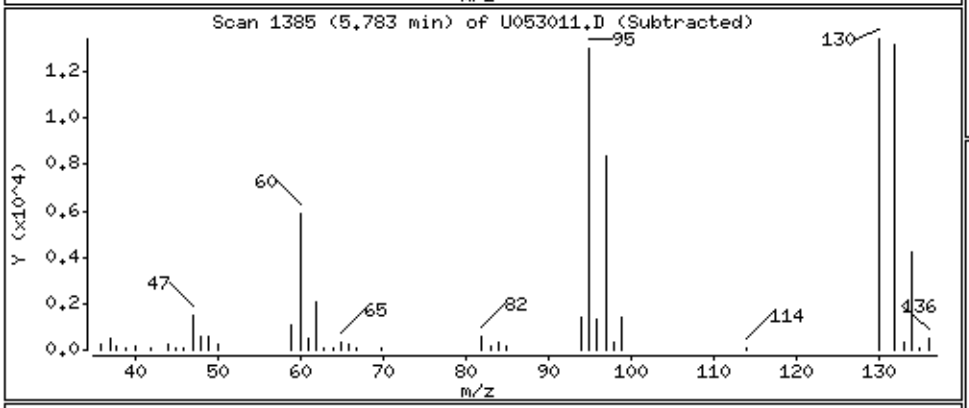
Column phase: DB624

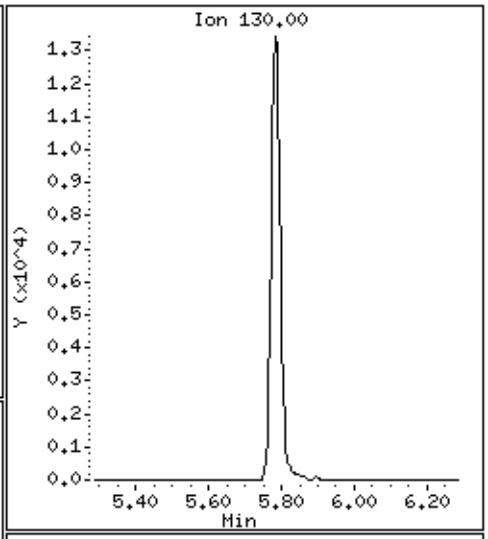
Column diameter: 0.18

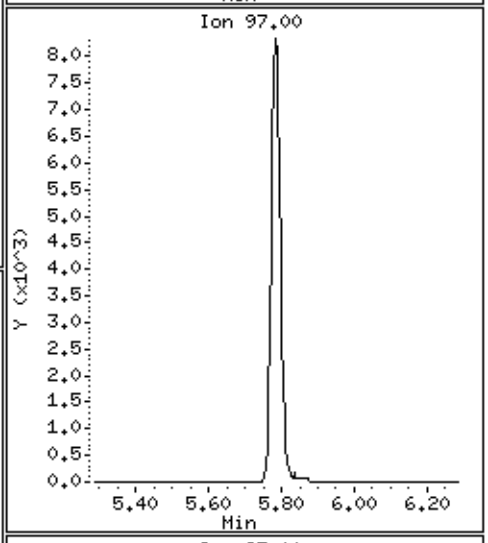
38 Trichloroethene

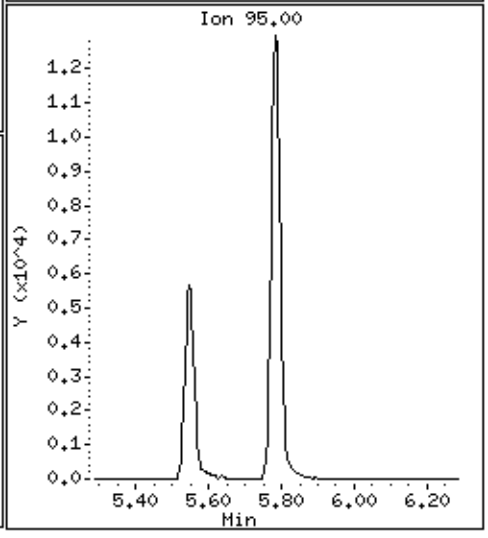
Concentration: 11.21 ug/l









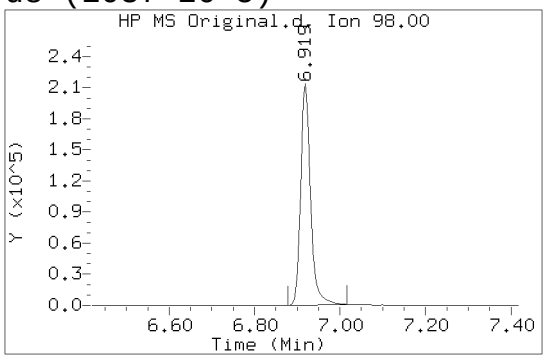


Data File : \\NAHSTWS005\Target\chem\voa9.i\U240530.b\U053011.D
Inj Date : 30-MAY-2024 18:12
InstruID : VOA9.i
LabSampID : HS24051490-06

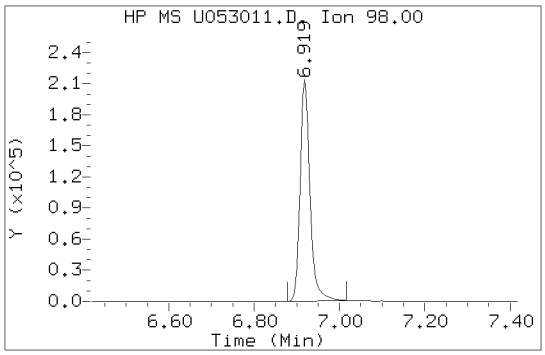
Toluene-d8 (2037-26-5)

Reason Code:

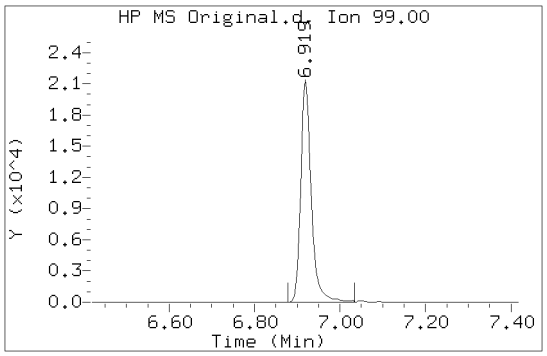
BEFORE
MASS
98
AREA
349175
HEIGHT
213651
24-Jun-2024
08:29
r
patel



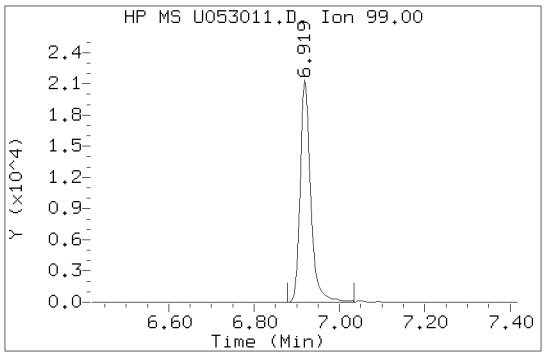
AFTER
MASS
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AREA
349175
HEIGHT
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24-Jun-2024
08:29
r
patel



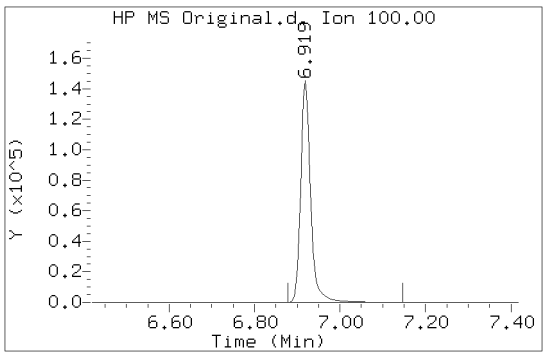
BEFORE
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AREA
37260
HEIGHT
21376
24-Jun-2024
08:29
r
patel



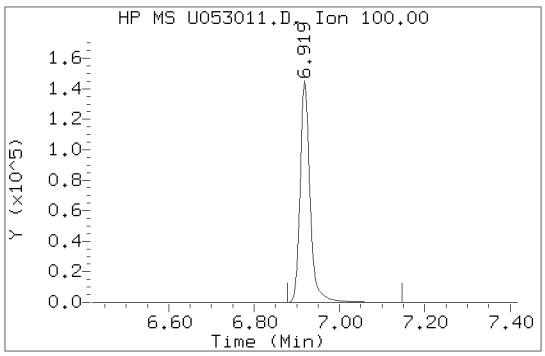
AFTER
MASS
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AREA
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HEIGHT
21376
24-Jun-2024
08:29
r
patel



BEFORE
MASS
100
AREA
239255
HEIGHT
145280
24-Jun-2024
08:29
r
patel



AFTER
MASS
100
AREA
239255
HEIGHT
145280
24-Jun-2024
08:29
r
patel



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240530.b\U053012.D Page 1
Report Date: 24-Jun-2024 08:30

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240530.b\U053012.D
Lab Smp Id: HS24051490-07
Inj Date : 30-MAY-2024 18:34
Operator : TS Inst ID: VOA9.i
Smp Info : HS24051490-07
Misc Info : V9;WATER;0;1;
Comment :
Method : \\nahstws005\Target\chem\voa9.i\U240530.b\8260C.m
Meth Date : 24-Jun-2024 08:29 VOA9.i Quant Type: ISTD
Cal Date : 29-MAY-2024 11:00 Cal File: U052903.D
Als bottle: 11
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260-dryclean.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	4.815	4.811	(1.000)	242326	50.0000	
$ 30 Dibromofluoromethane	113	4.748	4.744	(0.986)	87432	56.6349	56.63
$ 35 1,2-Dichloroethane-d4	65	5.096	5.093	(1.058)	109762	58.8600	58.86(M)
* 36 1,4-Difluorobenzene	114	5.550	5.550	(1.000)	357593	50.0000	
* 47 Chlorobenzene-d5	117	8.182	8.182	(1.000)	322239	50.0000	
$ 48 Toluene-d8	98	6.922	6.918	(0.846)	342654	55.7408	55.74(M)
$ 69 4-Bromofluorobenzene	95	9.190	9.190	(1.123)	122022	54.4585	54.45
* 70 1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	166152	50.0000	
38 Trichloroethene	130	5.786	5.786	(1.043)	23727	11.4454	11.44

QC Flag Legend

M - Compound response manually integrated.

01334381

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240530.b\U053012.D

Page 1

Date : 30-MAY-2024 18:34

Client ID:

Instrument: VOA9.i

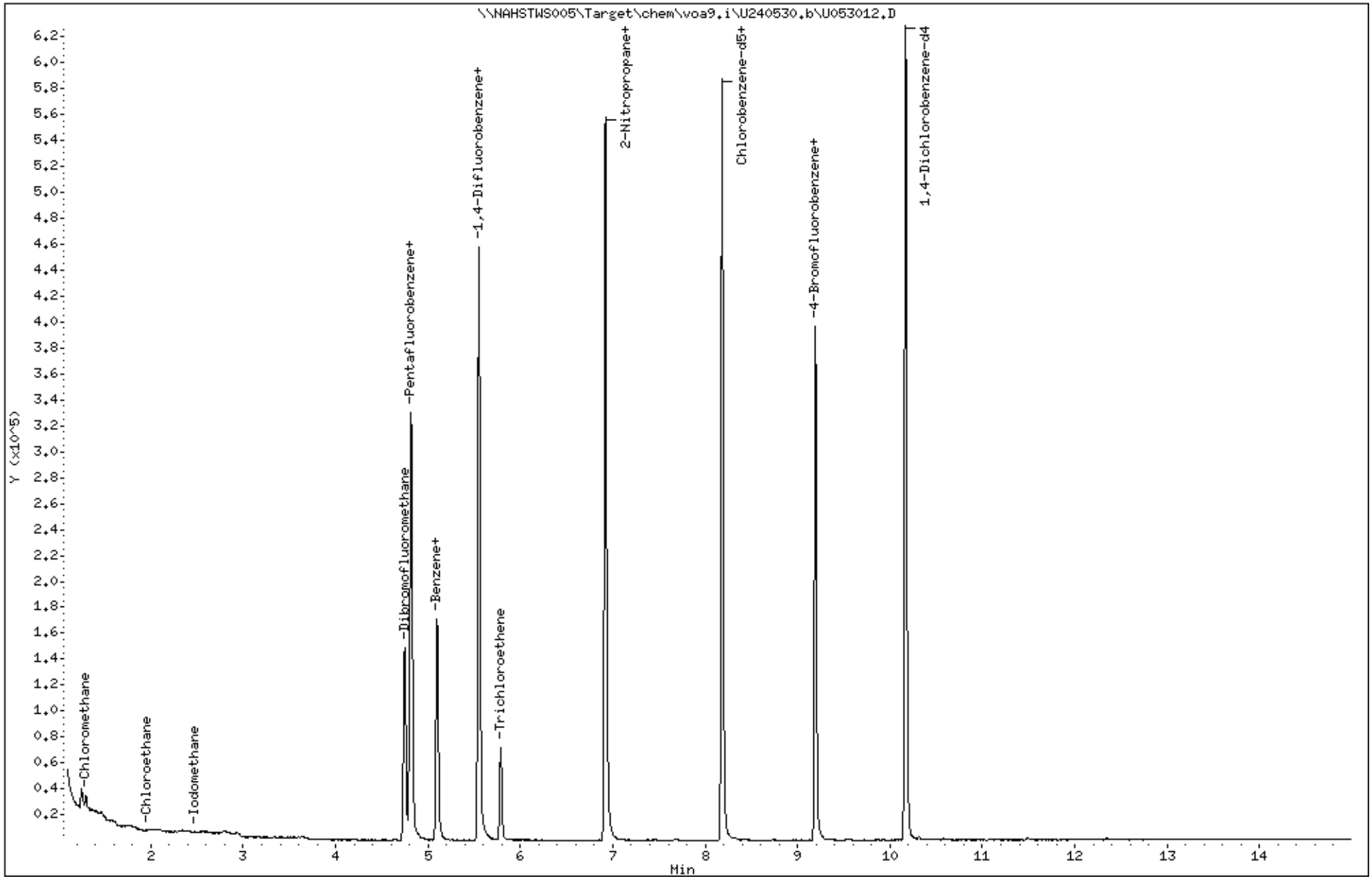
Sample Info: HS24051490-07

Purge Volume: 5.0

Operator: TS

Column phase: DB624

Column diameter: 0.18



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240530.b\U053012.D

Date : 30-MAY-2024 18:34

Client ID:

Instrument: VOA9.i

Sample Info: HS24051490-07

Purge Volume: 5.0

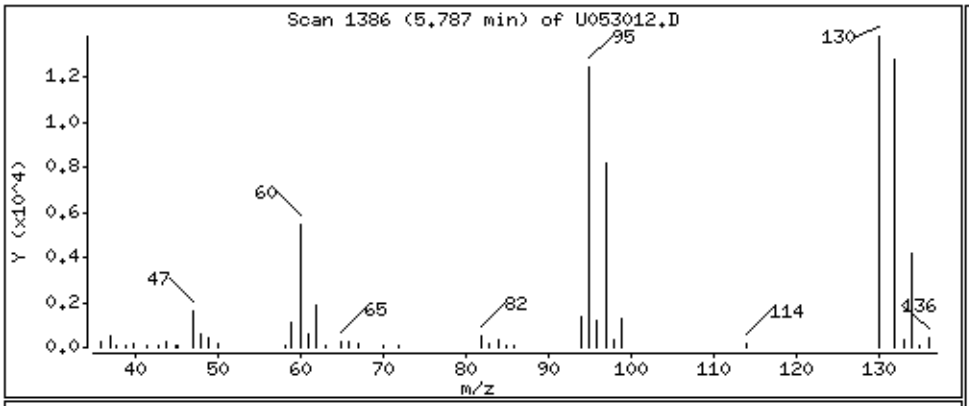
Operator: TS

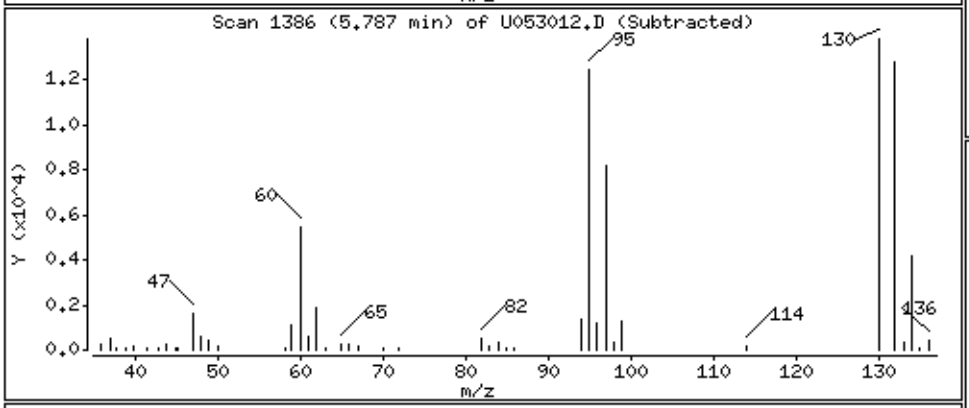
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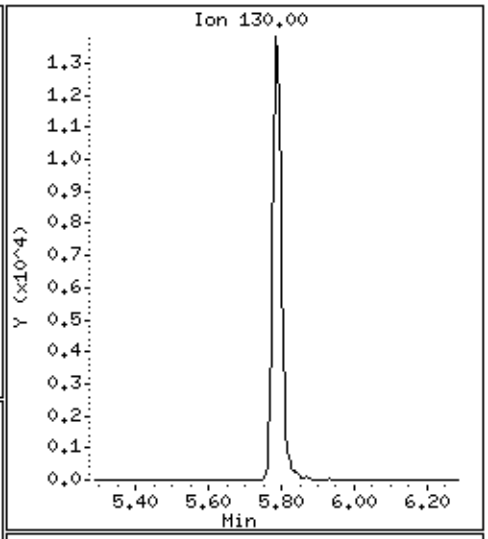
Column diameter: 0.18

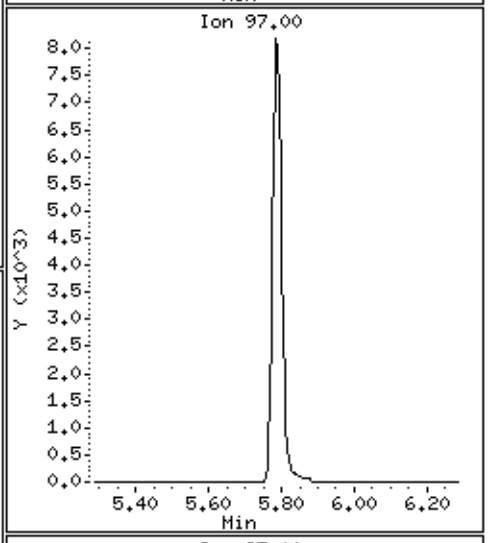
38 Trichloroethene

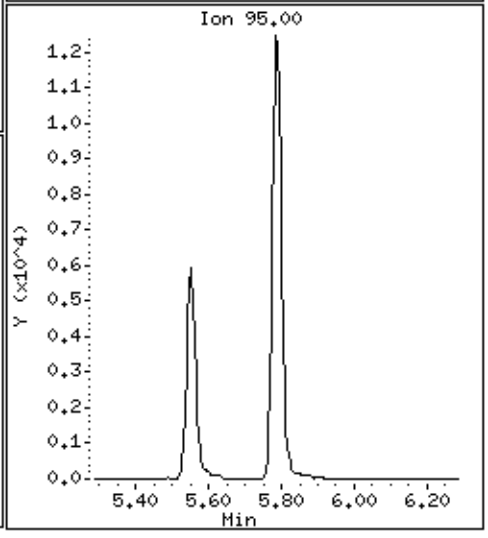
Concentration: 11.44 ug/l











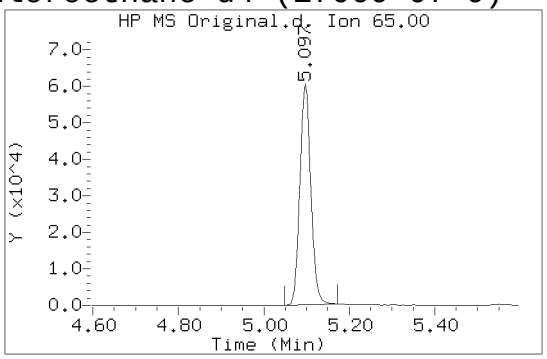
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240530.b\U053012.D
Inj Date : 30-MAY-2024 18:34
InstruID : VOA9.i
LabSampID : HS24051490-07

1,2-Dichloroethane-d4 (17060-07-0)

Reason Code:

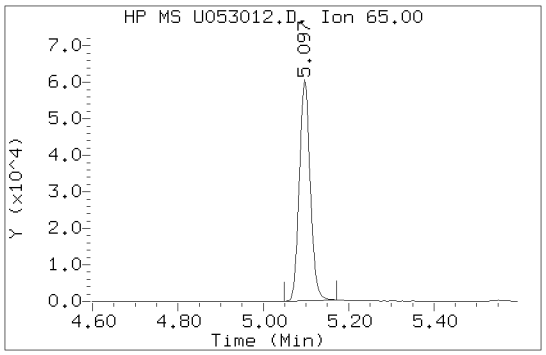
BEFORE

MASS
65
AREA
109762
HEIGHT
60577
24-Jun-2024
08:29
r
patel



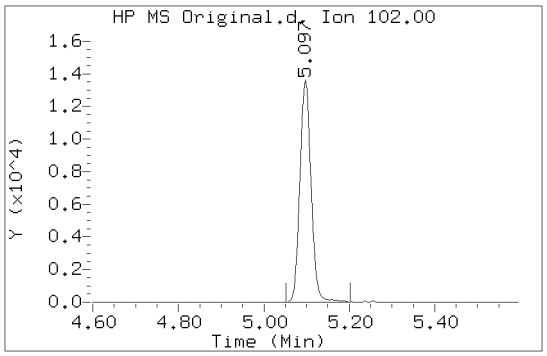
AFTER

MASS
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AREA
109762
HEIGHT
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24-Jun-2024
08:29
r
patel



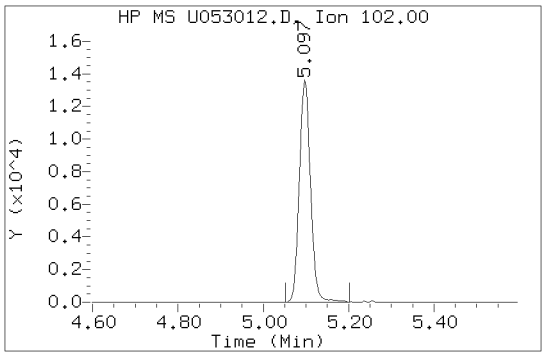
BEFORE

MASS
102
AREA
25332
HEIGHT
13627
24-Jun-2024
08:29
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patel



AFTER

MASS
102
AREA
25332
HEIGHT
13627
24-Jun-2024
08:29
r
patel

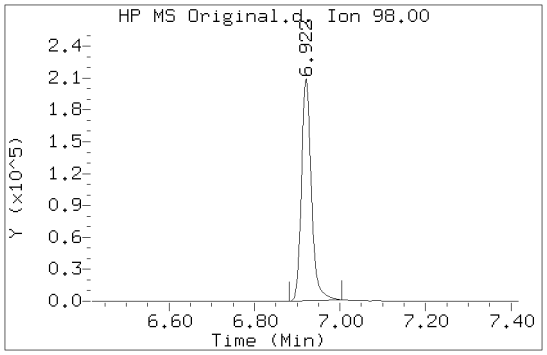


Toluene-d8 (2037-26-5)

Reason Code:

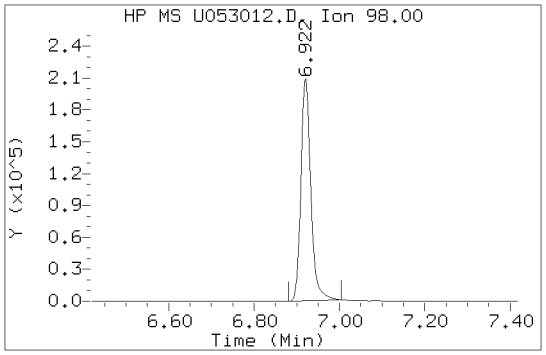
BEFORE

MASS
98
AREA
342654
HEIGHT
208664
24-Jun-2024
08:29
r
patel



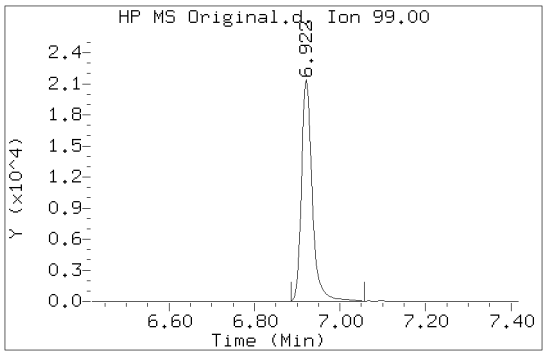
AFTER

MASS
98
AREA
342654
HEIGHT
208664
24-Jun-2024
08:29
r
patel



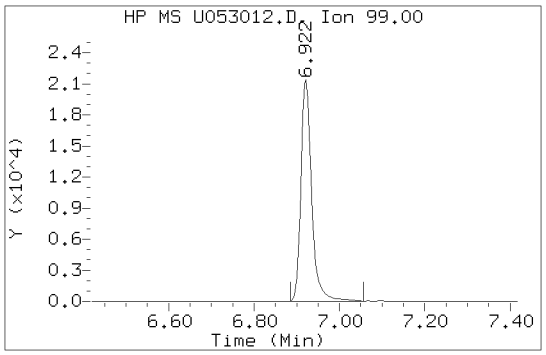
BEFORE

MASS
99
AREA
38217
HEIGHT
21392
24-Jun-2024
08:29
r
patel



AFTER

MASS
99
AREA
38217
HEIGHT
21392
24-Jun-2024
08:29
r
patel



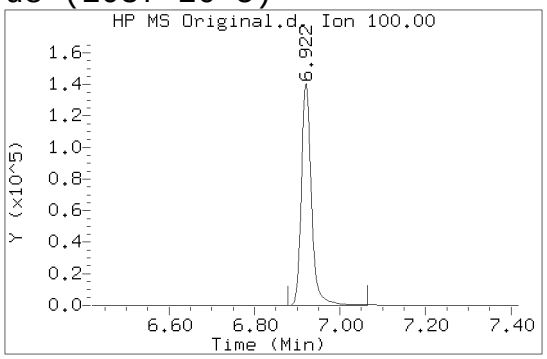
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240530.b\U053012.D
Inj Date : 30-MAY-2024 18:34
InstruID : VOA9.i
LabSampID : HS24051490-07

Toluene-d8 (2037-26-5)

Reason Code:

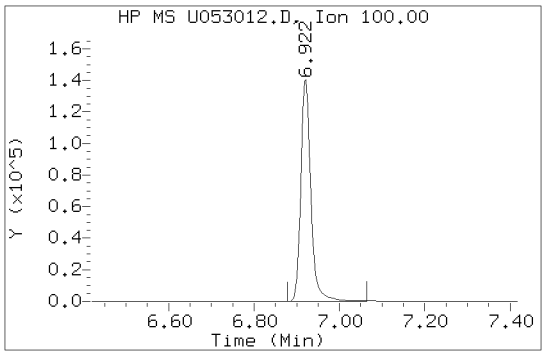
BEFORE

MASS
100
AREA
234354
HEIGHT
140416
24-Jun-2024
08:29
r
patel



AFTER

MASS
100
AREA
234354
HEIGHT
140416
24-Jun-2024
08:29
r
patel



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240530.b\U053024.D Page 1
Report Date: 24-Jun-2024 08:30

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240530.b\U053024.D
Lab Smp Id: HS24051490-02
Inj Date : 30-MAY-2024 22:57
Operator : TS   Inst ID: VOA9.i
Smp Info : HS24051490-02
Misc Info : V9;WATER;0;10;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240530.b\8260C.m
Meth Date : 24-Jun-2024 08:29 VOA9.i   Quant Type: ISTD
Cal Date : 29-MAY-2024 11:00   Cal File: U052903.D
Als bottle: 23
Dil Factor: 10.00000
Integrator: HP RTE   Compound Sublist: 8260-dryclean.sub
Target Version: 4.14
Processing Host: NAHSTW7056

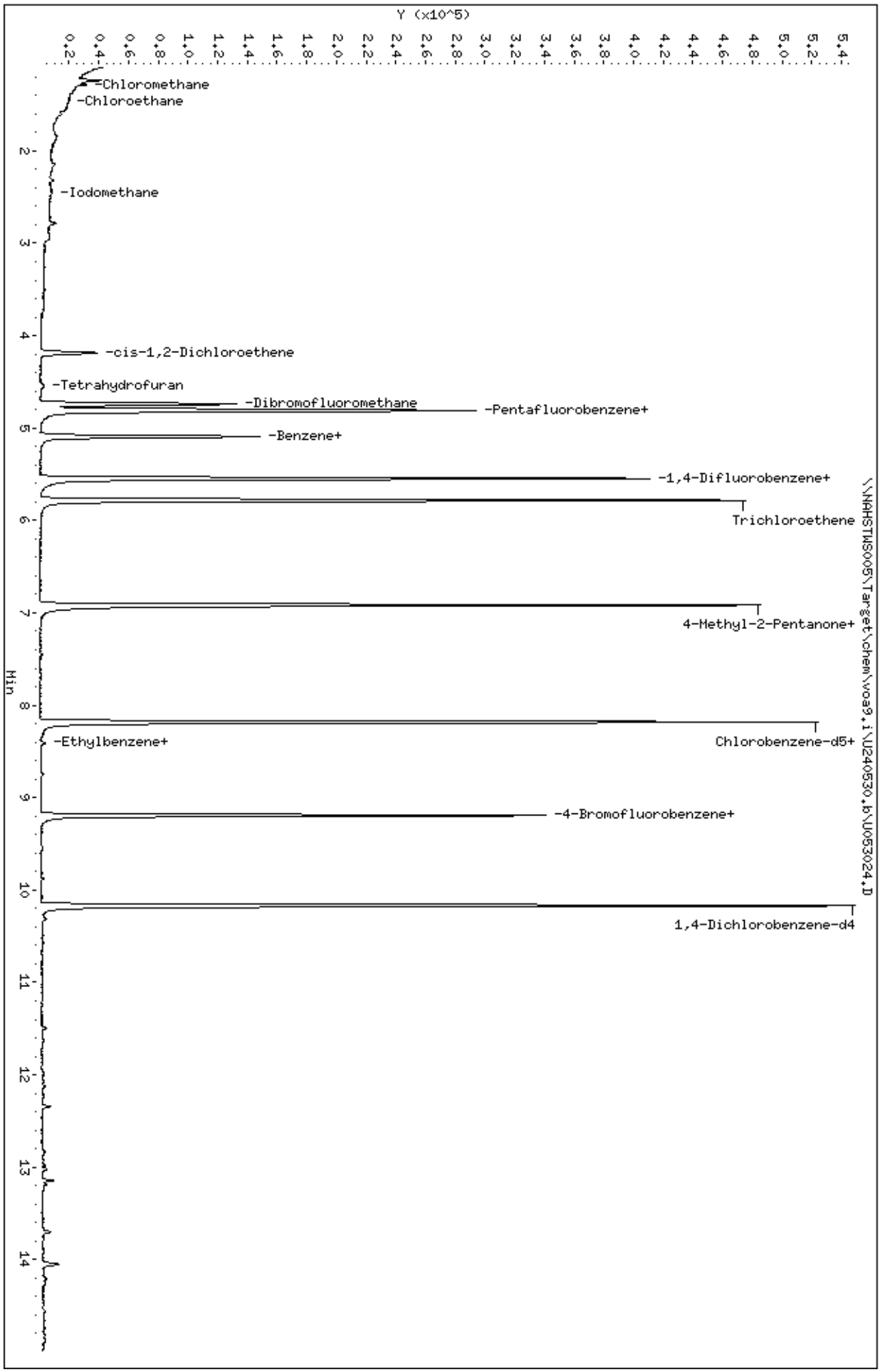
Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

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	4.808	4.811	(1.000)	216347	50.0000	
$	30 Dibromofluoromethane	113	4.740	4.744	(0.986)	77041	55.9128	55.91
$	35 1,2-Dichloroethane-d4	65	5.089	5.093	(1.058)	96254	57.8221	57.82(M)
*	36 1,4-Difluorobenzene	114	5.546	5.550	(1.000)	322381	50.0000	
*	47 Chlorobenzene-d5	117	8.182	8.182	(1.000)	288759	50.0000	
$	48 Toluene-d8	98	6.918	6.918	(0.846)	304891	55.3498	55.34
$	69 4-Bromofluorobenzene	95	9.194	9.190	(1.124)	107081	53.3293	53.32
*	70 1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	145793	50.0000	
	27 cis-1,2-Dichloroethene	96	4.189	4.189	(0.871)	18589	9.33306	93.33
	38 Trichloroethene	130	5.782	5.786	(1.043)	152875	81.7984	817.98
M	94 1,2-Dichloroethylene (total)	96				18589	10.3145	103.14

QC Flag Legend

M - Compound response manually integrated.



Data File: \\NAHSTWS005\Target\chem\voa9,i\U240530,b\U053024.D
Date : 30-MAY-2024 22:57
Client ID:
Sample Info: HS24051490-02
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9,i
Operator: TS
Column diameter: 0.18

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240530.b\U053024.D Page 2

Date : 30-MAY-2024 22:57

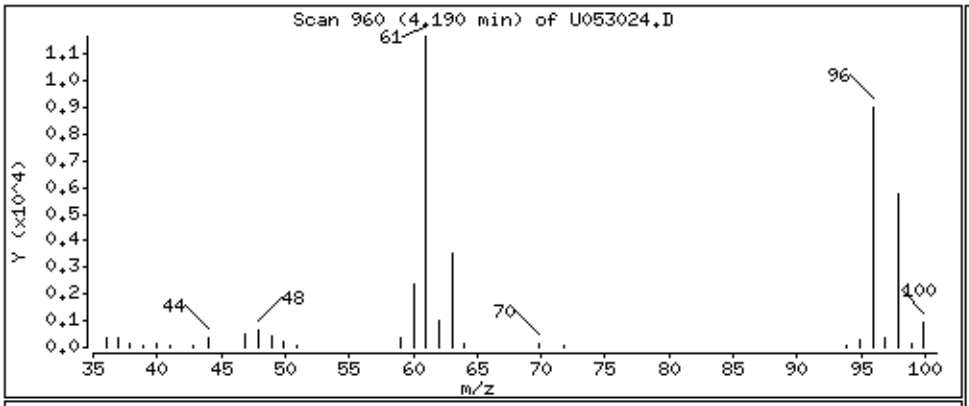
Client ID: Instrument: VOA9.i

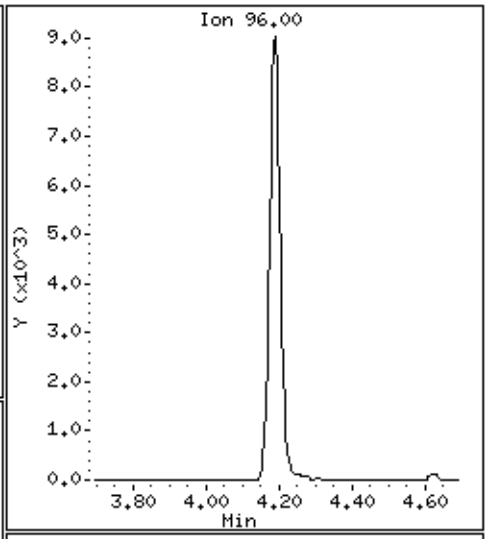
Sample Info: HS24051490-02

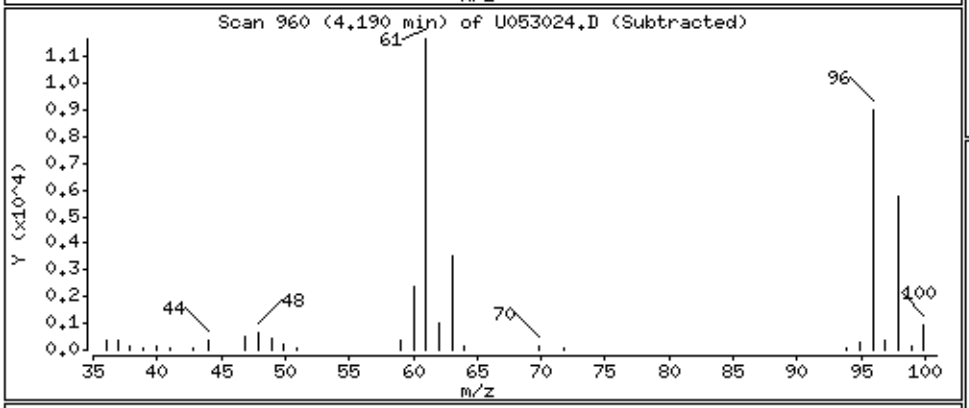
Purge Volume: 5.0 Operator: TS

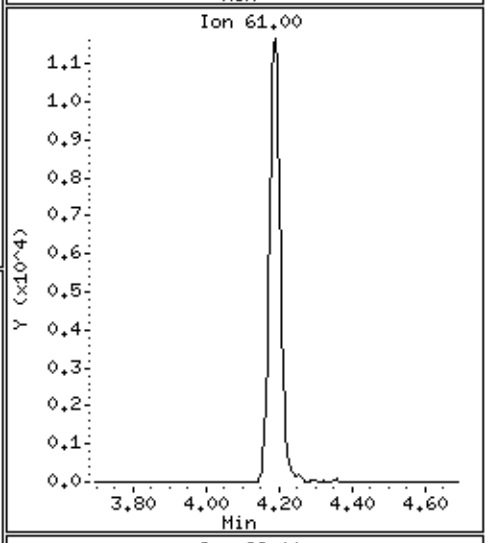
Column phase: DB624 Column diameter: 0.18

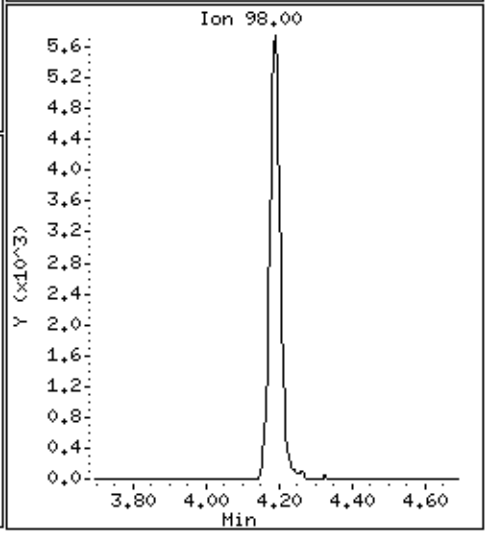
27 cis-1,2-Dichloroethene Concentration: 93.33 ug/l











Data File: \\NAHSTWS005\Target\chem\voa9.i\U240530.b\U053024.D Page 3

Date : 30-MAY-2024 22:57

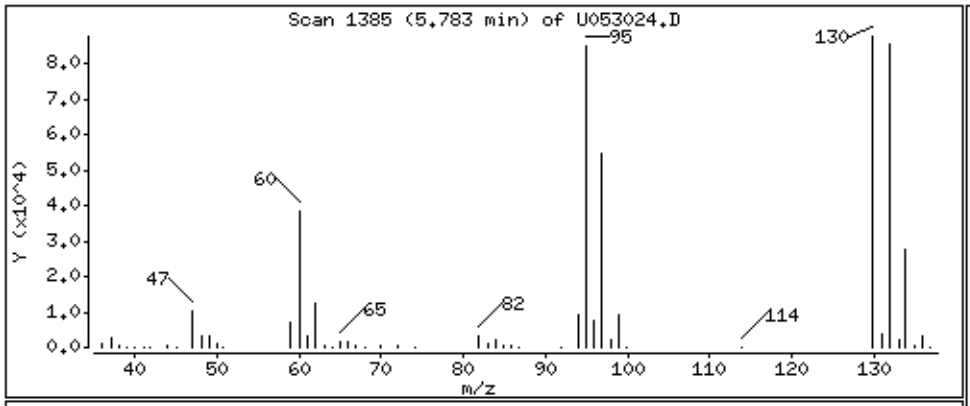
Client ID: Instrument: VOA9.i

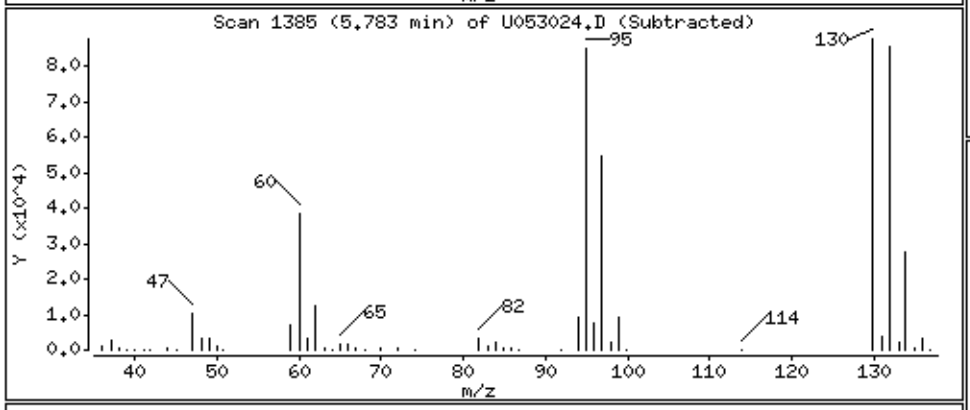
Sample Info: HS24051490-02

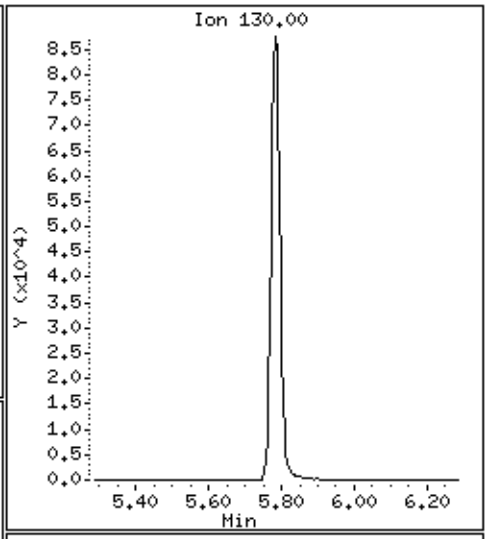
Purge Volume: 5.0 Operator: TS

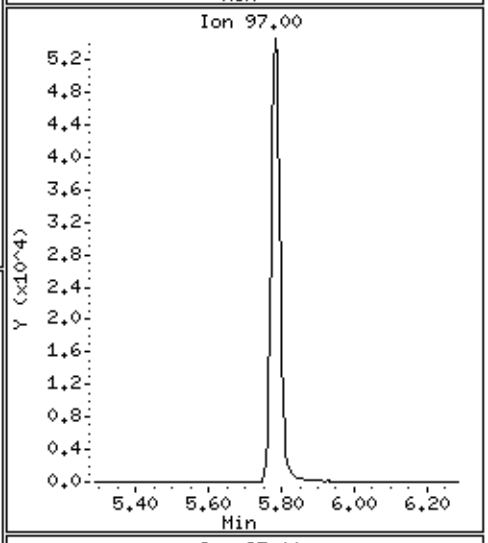
Column phase: DB624 Column diameter: 0.18

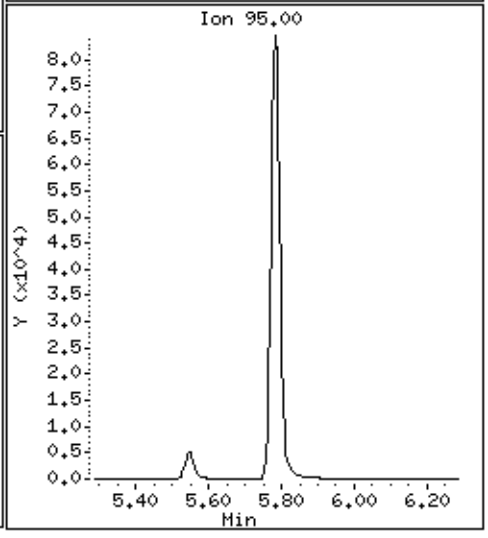
38 Trichloroethene Concentration: 817.98 ug/l











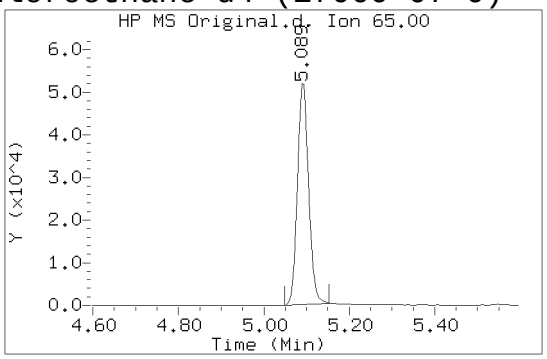
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240530.b\U053024.D
Inj Date : 30-MAY-2024 22:57
InstruID : VOA9.i
LabSampID : HS24051490-02

1,2-Dichloroethane-d4 (17060-07-0)

Reason Code:

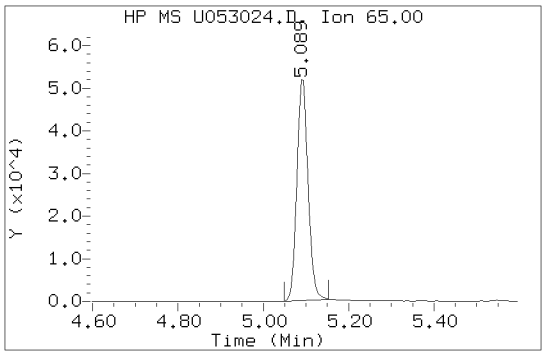
BEFORE

MASS
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HEIGHT
51833
24-Jun-2024
08:29
r
patel



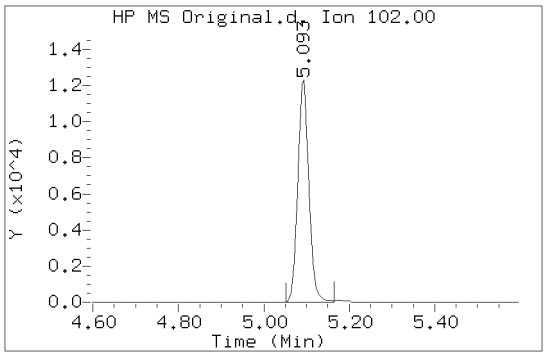
AFTER

MASS
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AREA
96254
HEIGHT
51833
24-Jun-2024
08:29
r
patel



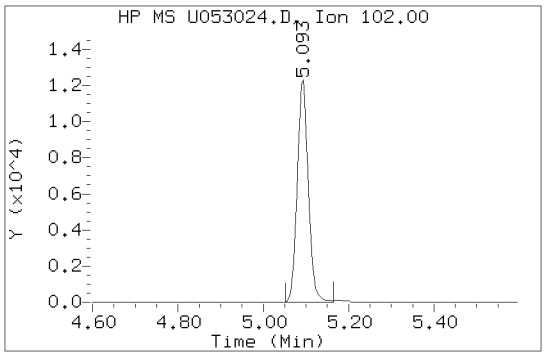
BEFORE

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102
AREA
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HEIGHT
12315
24-Jun-2024
08:29
r
patel



AFTER

MASS
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AREA
22631
HEIGHT
12315
24-Jun-2024
08:29
r
patel



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240530.b\U053025.D Page 1
Report Date: 24-Jun-2024 08:30

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240530.b\U053025.D
Lab Smp Id: HS24051490-04
Inj Date : 30-MAY-2024 23:21
Operator : TS   Inst ID: VOA9.i
Smp Info : HS24051490-04
Misc Info : V9;WATER;0;10;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240530.b\8260C.m
Meth Date : 24-Jun-2024 08:29 VOA9.i   Quant Type: ISTD
Cal Date : 29-MAY-2024 11:00   Cal File: U052903.D
Als bottle: 24
Dil Factor: 10.00000
Integrator: HP RTE   Compound Sublist: 8260-dryclean.sub
Target Version: 4.14
Processing Host: NAHSTW7056

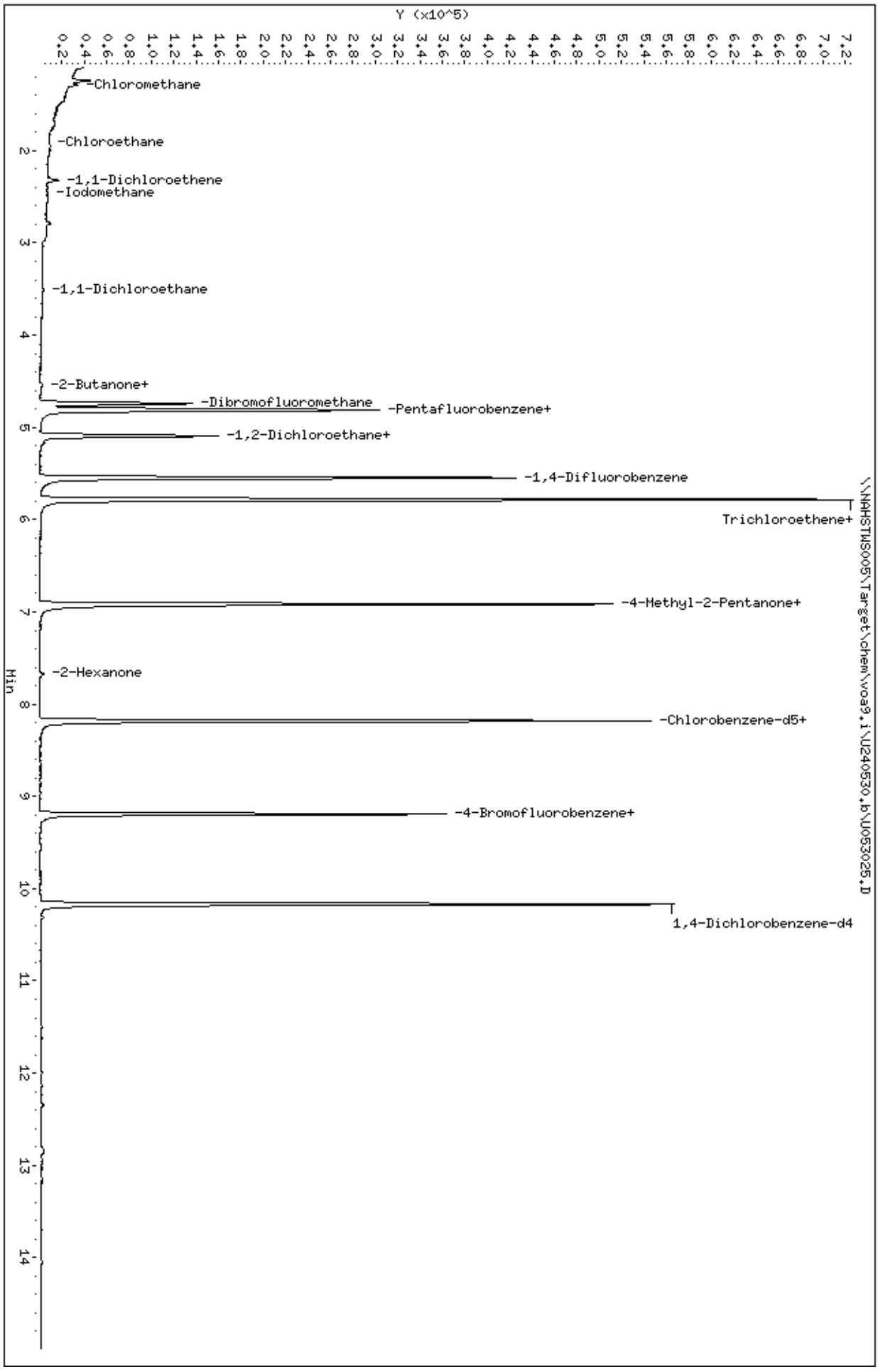
Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

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	4.811	4.811	(1.000)	222364	50.0000	
$ 30 Dibromofluoromethane	113	4.744	4.744	(0.986)	80519	56.8346	56.83
$ 35 1,2-Dichloroethane-d4	65	5.093	5.093	(1.058)	100114	58.5084	58.50(M)
* 36 1,4-Difluorobenzene	114	5.550	5.550	(1.000)	331504	50.0000	
* 47 Chlorobenzene-d5	117	8.181	8.182	(1.000)	300134	50.0000	
$ 48 Toluene-d8	98	6.918	6.918	(0.846)	314227	54.8844	54.88(M)
$ 69 4-Bromofluorobenzene	95	9.190	9.190	(1.123)	111310	53.3344	53.33
* 70 1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	148600	50.0000	
11 1,1-Dichloroethene	96	2.326	2.326	(0.483)	3161	2.15641	21.56(a)
33 1,2-Dichloroethane	62	5.171	5.171	(0.932)	2225	1.49055	14.90(a)
38 Trichloroethene	130	5.782	5.786	(1.042)	233174	121.330	1213.30

QC Flag Legend

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



Data File: \\NAHSTWS005\Target\chem\voa9,i\U240530,b\U053025.D
Date : 30-MAY-2024 23:21
Client ID:
Sample Info: HS24051490-04
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9,i
Operator: TS
Column diameter: 0.18

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240530.b\U053025.D Page 2

Date : 30-MAY-2024 23:21

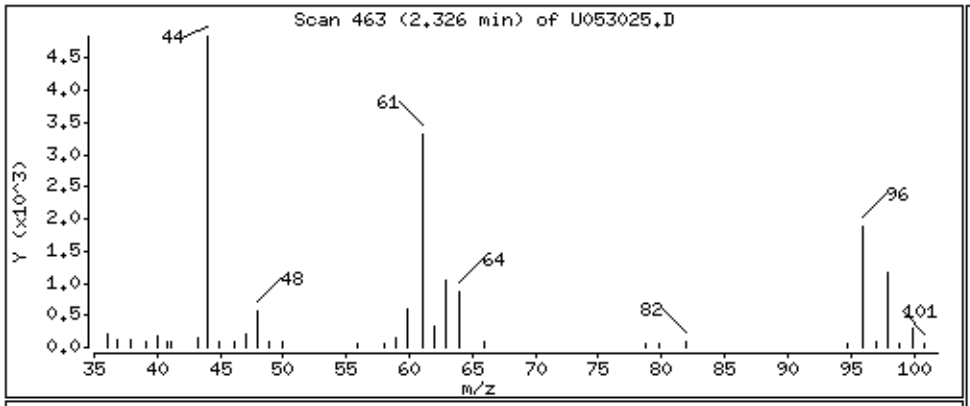
Client ID: Instrument: VOA9.i

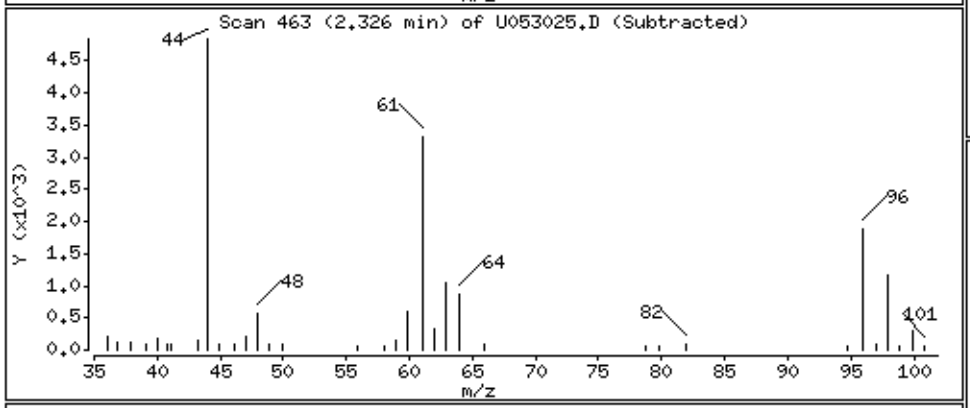
Sample Info: HS24051490-04

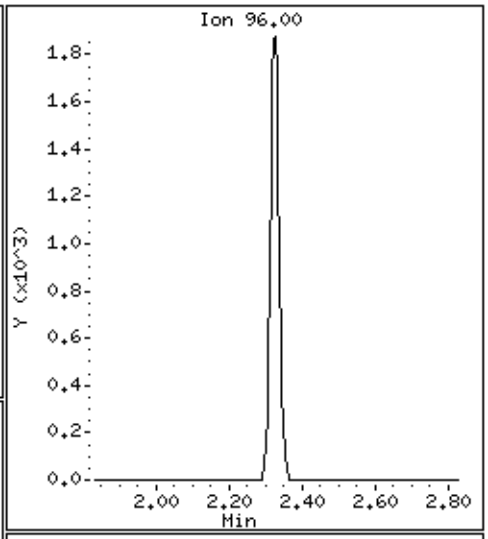
Purge Volume: 5.0 Operator: TS

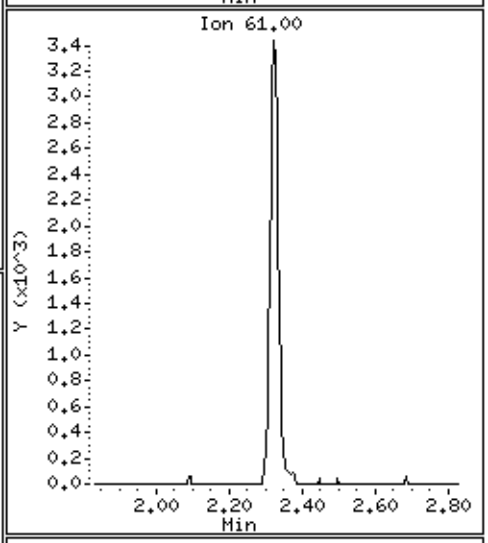
Column phase: DB624 Column diameter: 0.18

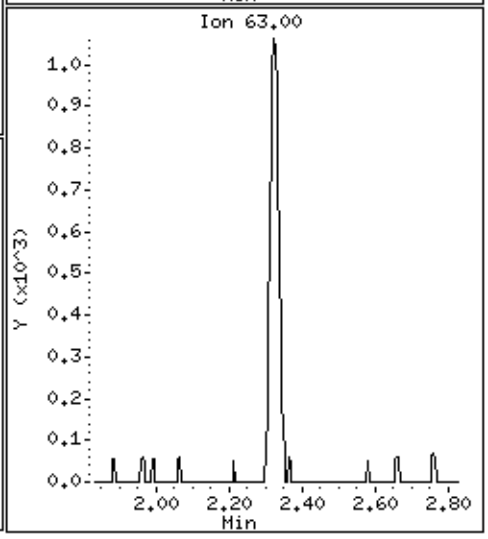
11 1,1-Dichloroethene Concentration: 21.56 ug/l











Data File: \\NAHSTWS005\Target\chem\voa9.i\U240530.b\U053025.D Page 3

Date : 30-MAY-2024 23:21

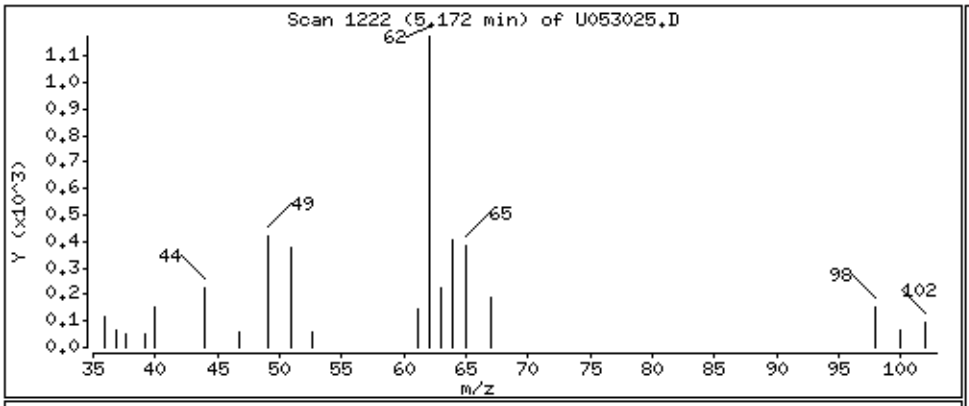
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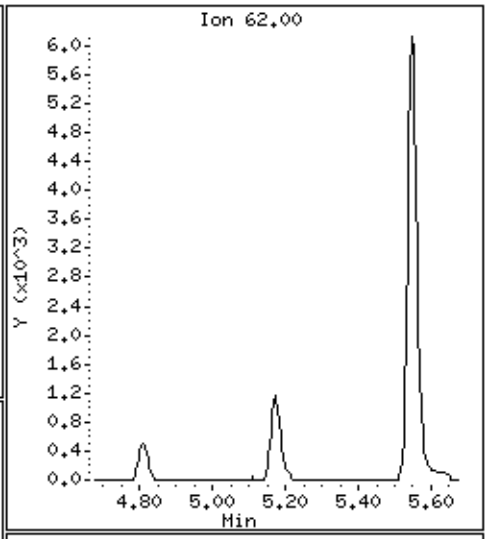
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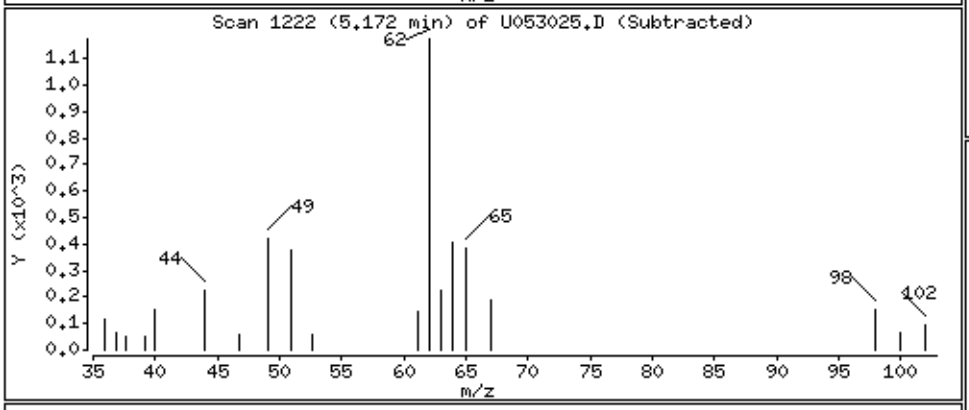
Purge Volume: 5.0 Operator: TS

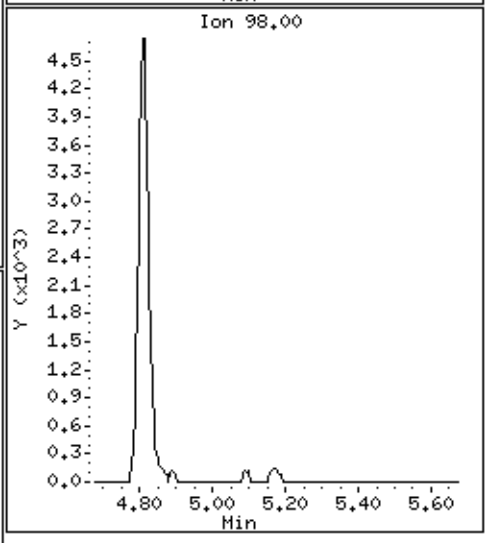
Column phase: DB624 Column diameter: 0.18

33 1,2-Dichloroethane Concentration: 14.90 ug/l









Data File: \\NAHSTWS005\Target\chem\voa9.i\U240530.b\U053025.D Page 4

Date : 30-MAY-2024 23:21

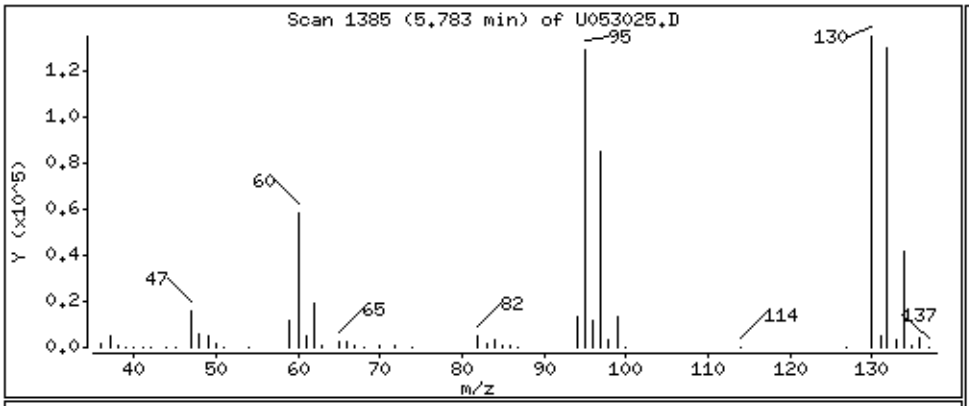
Client ID: Instrument: VOA9.i

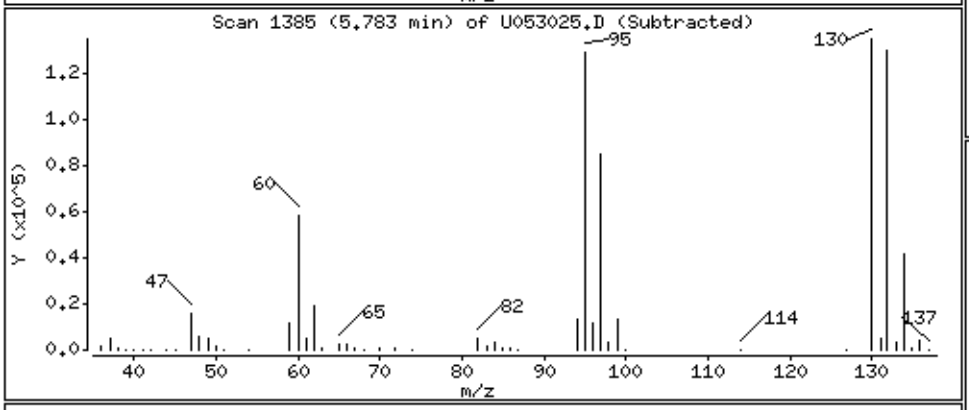
Sample Info: HS24051490-04

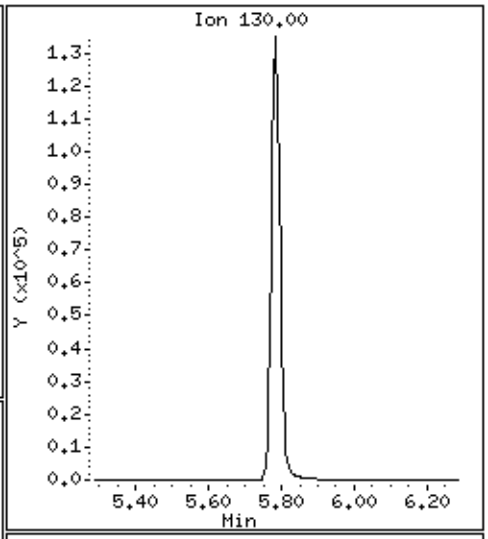
Purge Volume: 5.0 Operator: TS

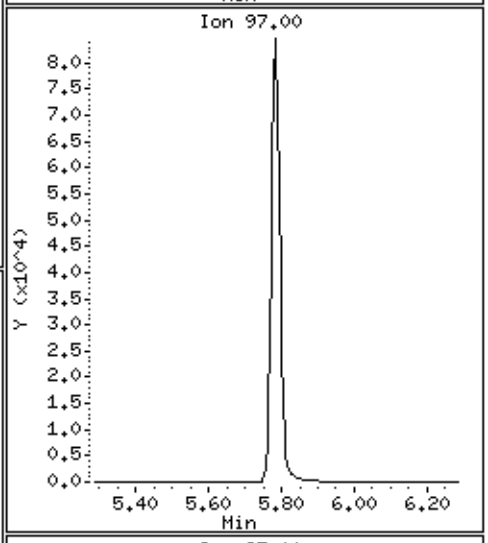
Column phase: DB624 Column diameter: 0.18

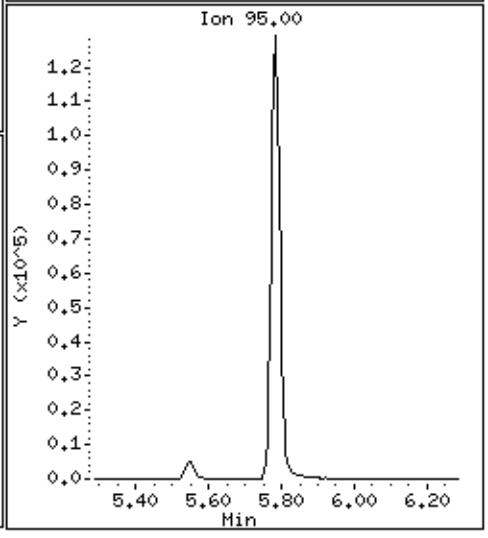
38 Trichloroethene Concentration: 1213.30 ug/l











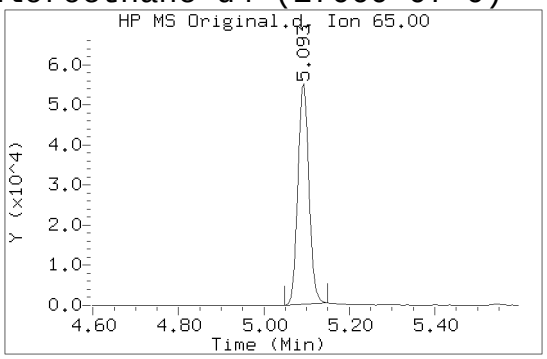
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240530.b\U053025.D
Inj Date : 30-MAY-2024 23:21
InstruID : VOA9.i
LabSampID : HS24051490-04

1,2-Dichloroethane-d4 (17060-07-0)

Reason Code:

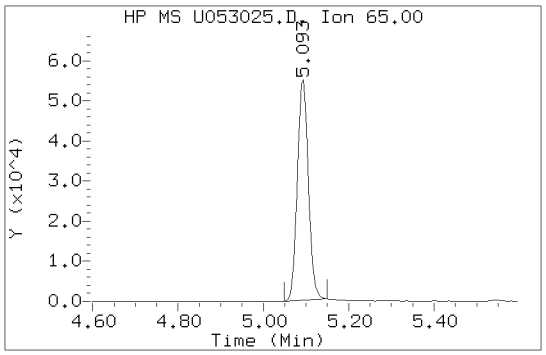
BEFORE

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HEIGHT
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24-Jun-2024
08:29
r
patel



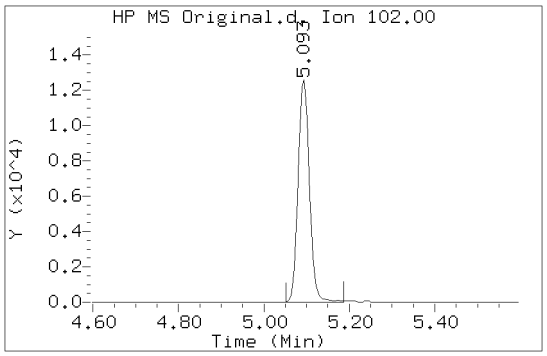
AFTER

MASS
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AREA
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HEIGHT
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24-Jun-2024
08:29
r
patel



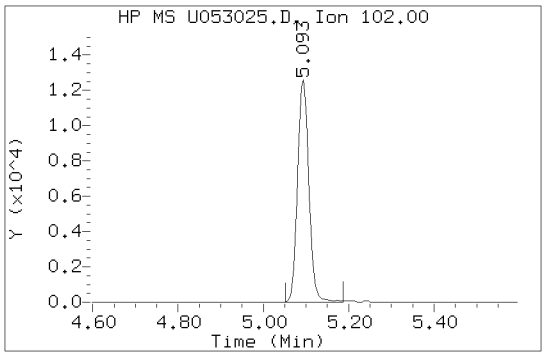
BEFORE

MASS
102
AREA
23660
HEIGHT
12590
24-Jun-2024
08:29
r
patel



AFTER

MASS
102
AREA
23660
HEIGHT
12590
24-Jun-2024
08:29
r
patel

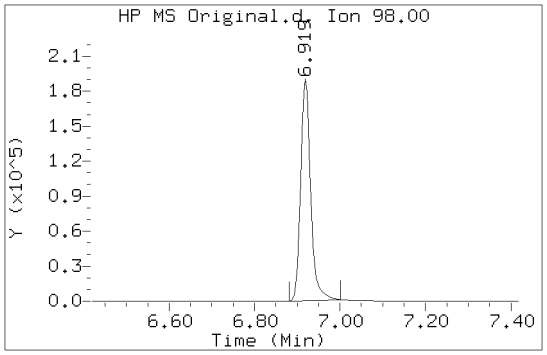


Toluene-d8 (2037-26-5)

Reason Code:

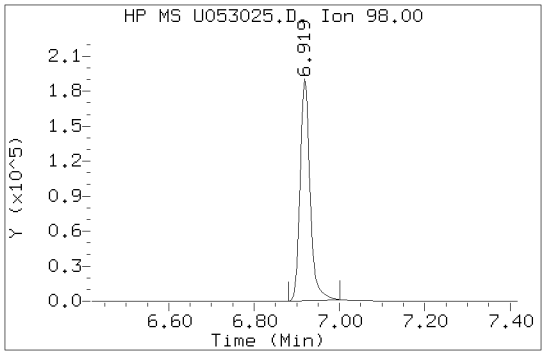
BEFORE

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AREA
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HEIGHT
190054
24-Jun-2024
08:29
r
patel



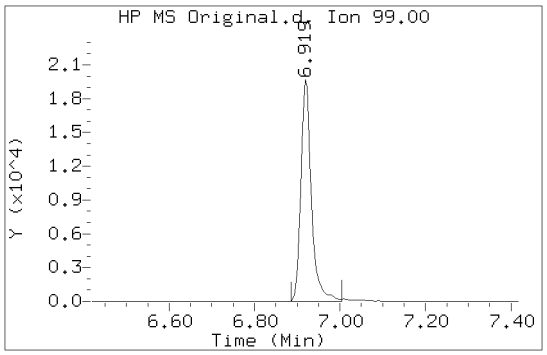
AFTER

MASS
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AREA
314227
HEIGHT
190054
24-Jun-2024
08:29
r
patel



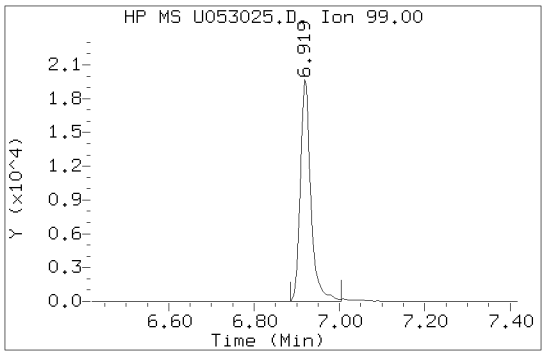
BEFORE

MASS
99
AREA
34372
HEIGHT
19680
24-Jun-2024
08:29
r
patel



AFTER

MASS
99
AREA
34372
HEIGHT
19680
24-Jun-2024
08:29
r
patel



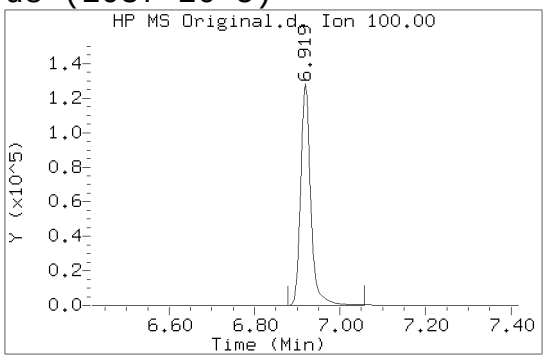
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240530.b\U053025.D
Inj Date : 30-MAY-2024 23:21
InstruID : VOA9.i
LabSampID : HS24051490-04

Toluene-d8 (2037-26-5)

Reason Code:

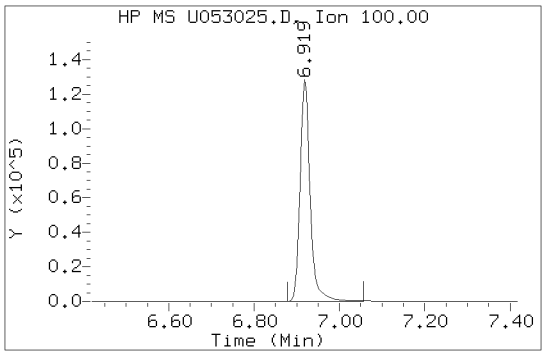
BEFORE

MASS
100
AREA
214691
HEIGHT
128408
24-Jun-2024
08:29
r
patel



AFTER

MASS
100
AREA
214691
HEIGHT
128408
24-Jun-2024
08:29
r
patel



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240530.b\U053026.D Page 1
Report Date: 24-Jun-2024 08:30

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240530.b\U053026.D
Lab Smp Id: HS24051490-05
Inj Date : 30-MAY-2024 23:43
Operator : TS   Inst ID: VOA9.i
Smp Info : HS24051490-05
Misc Info : V9;WATER;0;10;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240530.b\8260C.m
Meth Date : 24-Jun-2024 08:29 VOA9.i   Quant Type: ISTD
Cal Date : 29-MAY-2024 11:00   Cal File: U052903.D
Als bottle: 25
Dil Factor: 10.00000
Integrator: HP RTE   Compound Sublist: 8260-dryclean.sub
Target Version: 4.14
Processing Host: NAHSTW7056

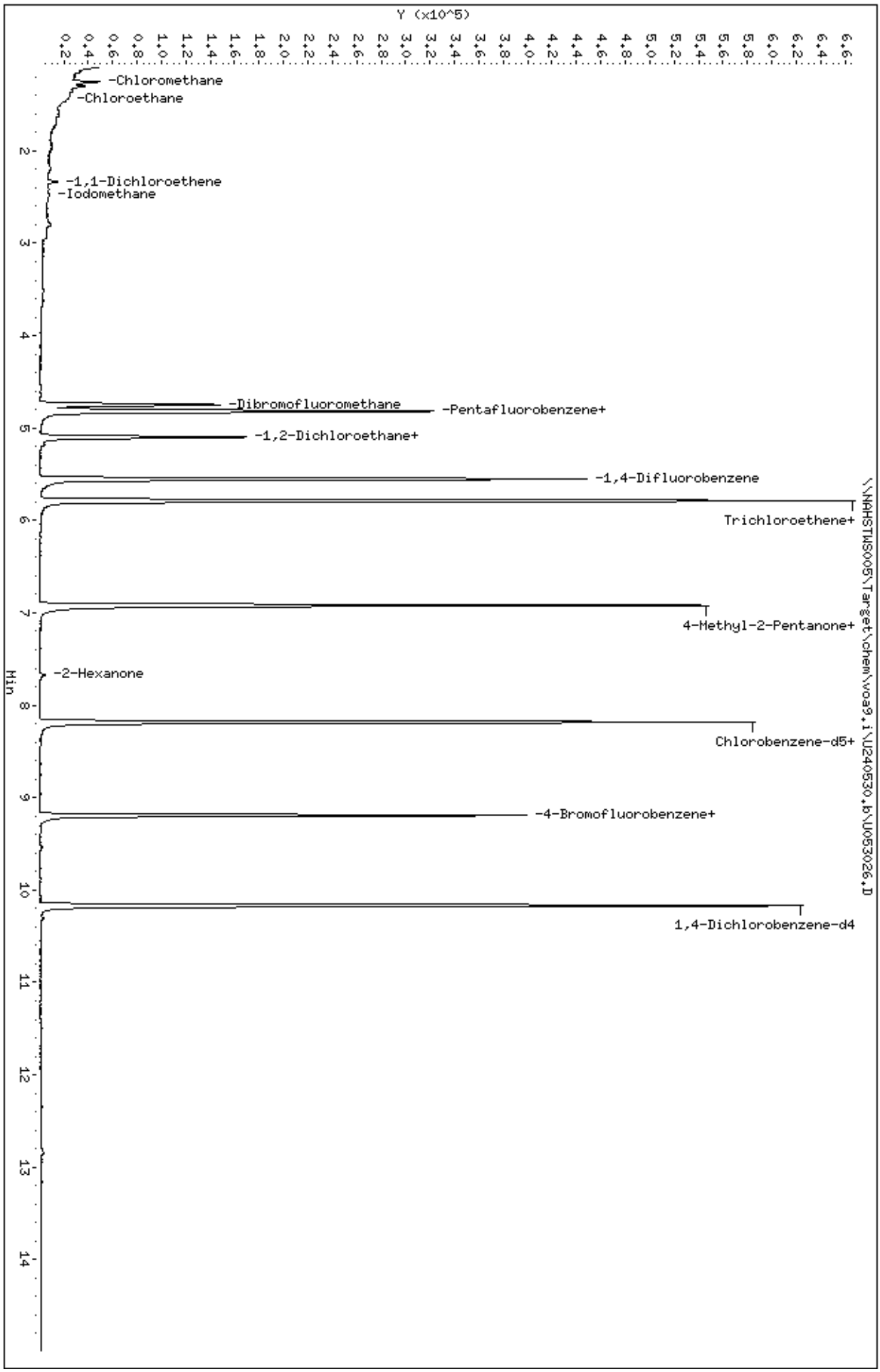
Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

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	4.815	4.811	(1.000)	233862	50.0000	
$ 30 Dibromofluoromethane	113	4.748	4.744	(0.986)	86148	57.7954	57.79
$ 35 1,2-Dichloroethane-d4	65	5.096	5.093	(1.058)	105929	58.8605	58.86(M)
* 36 1,4-Difluorobenzene	114	5.554	5.550	(1.000)	349341	50.0000	
* 47 Chlorobenzene-d5	117	8.182	8.182	(1.000)	317343	50.0000	
$ 48 Toluene-d8	98	6.922	6.918	(0.846)	337371	55.7282	55.72(M)
$ 69 4-Bromofluorobenzene	95	9.190	9.190	(1.123)	122090	55.3310	55.33
* 70 1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	164511	50.0000	
11 1,1-Dichloroethene	96	2.337	2.326	(0.485)	2760	1.79028	17.90(a)
33 1,2-Dichloroethane	62	5.179	5.171	(0.933)	1981	1.35231	13.52(a)
38 Trichloroethene	130	5.786	5.786	(1.042)	216156	106.732	1067.32

QC Flag Legend

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



Data File: \\NAHSTWS005\Target\chem\voa9,i\U240530,b\U053026.D
Date : 30-MAY-2024 23:43
Client ID:
Sample Info: HS24051490-05
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9,i
Operator: TS
Column diameter: 0.18

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240530.b\U053026.D

Date : 30-MAY-2024 23:43

Client ID:

Instrument: VOA9.i

Sample Info: HS24051490-05

Purge Volume: 5.0

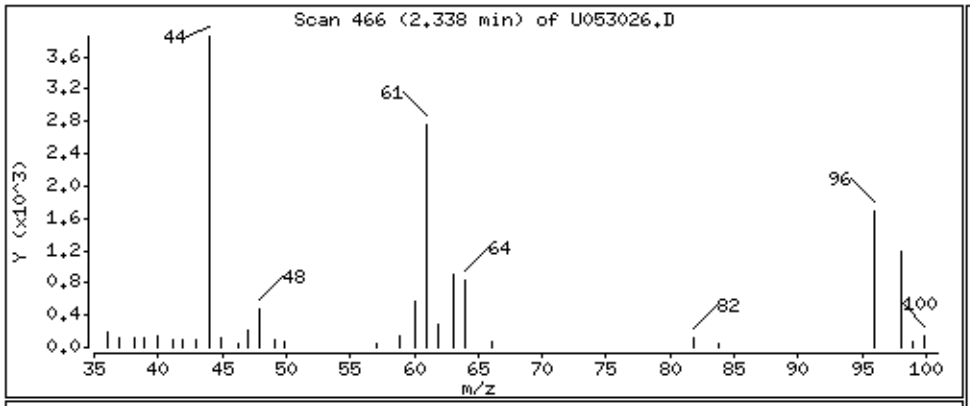
Operator: TS

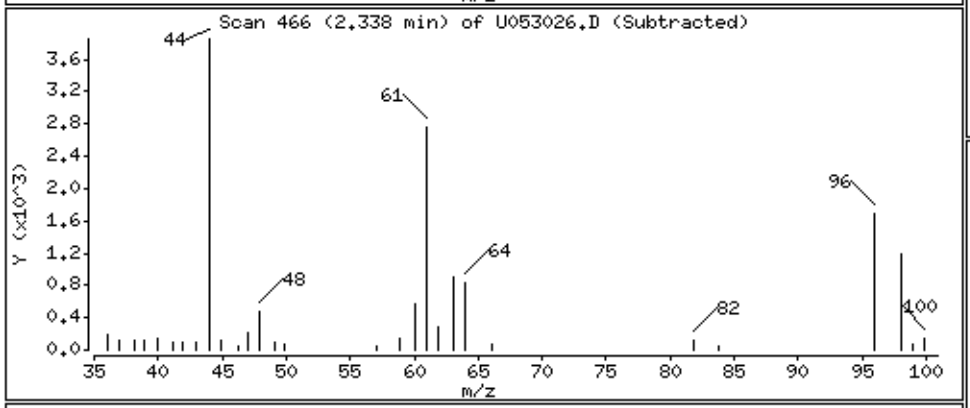
Column phase: DB624

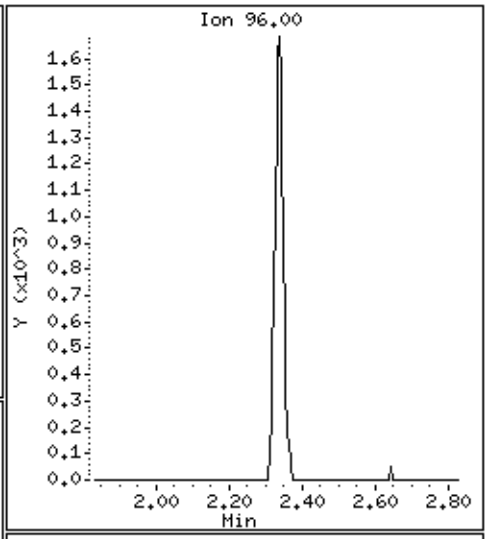
Column diameter: 0.18

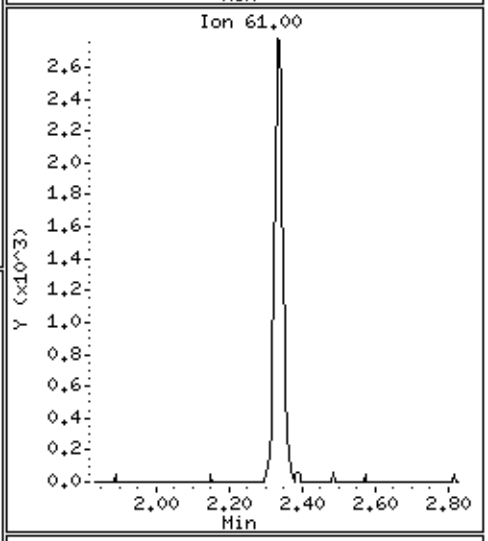
11 1,1-Dichloroethene

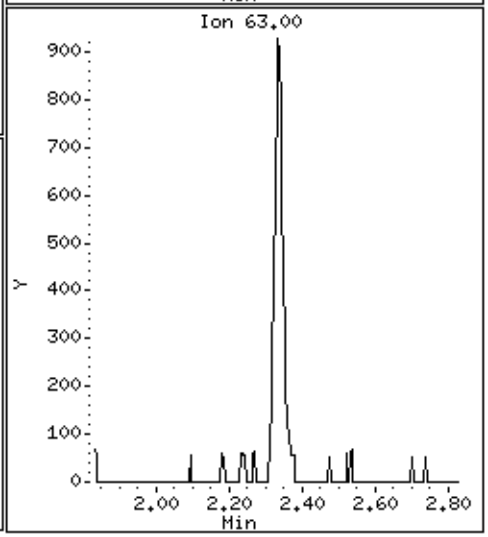
Concentration: 17.90 ug/l











Data File: \\NAHSTWS005\Target\chem\voa9.i\U240530.b\U053026.D Page 3

Date : 30-MAY-2024 23:43

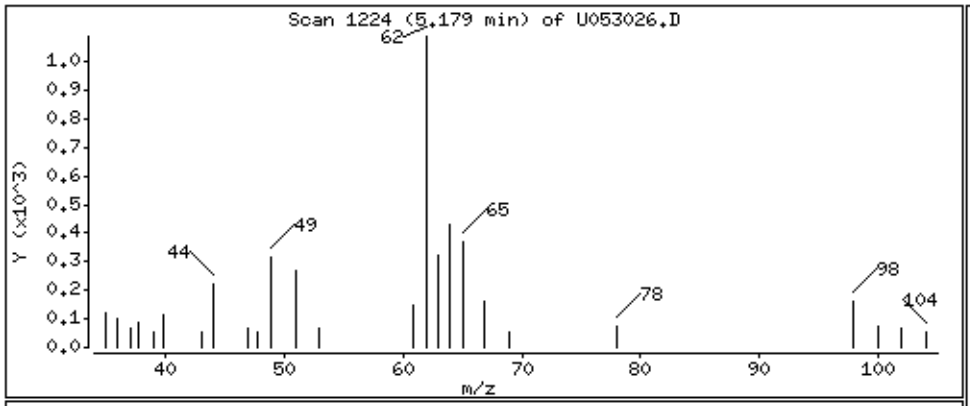
Client ID: Instrument: VOA9.i

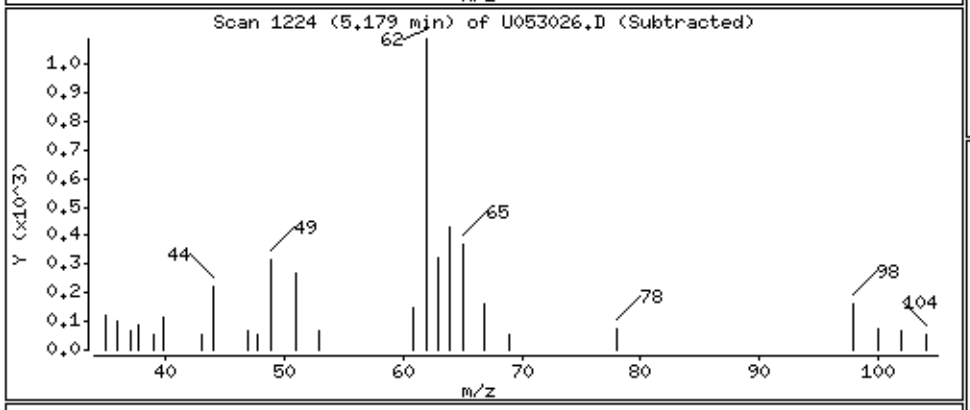
Sample Info: HS24051490-05

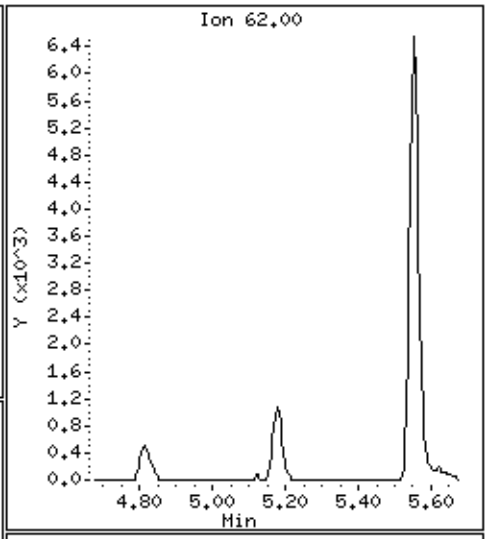
Purge Volume: 5.0 Operator: TS

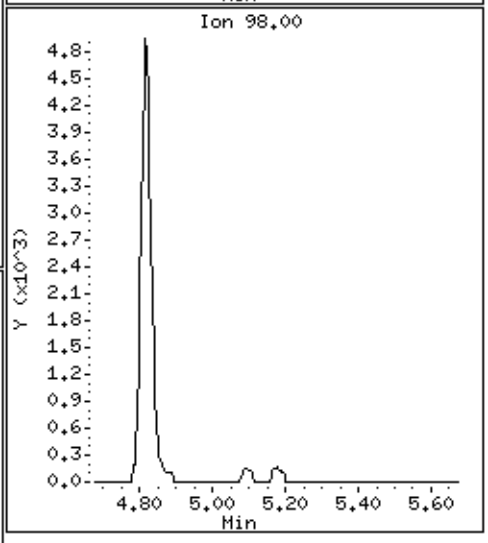
Column phase: DB624 Column diameter: 0.18

33 1,2-Dichloroethane Concentration: 13.52 ug/l









Data File: \\NAHSTWS005\Target\chem\voa9.i\U240530.b\U053026.D

Date : 30-MAY-2024 23:43

Client ID:

Instrument: VOA9.i

Sample Info: HS24051490-05

Purge Volume: 5.0

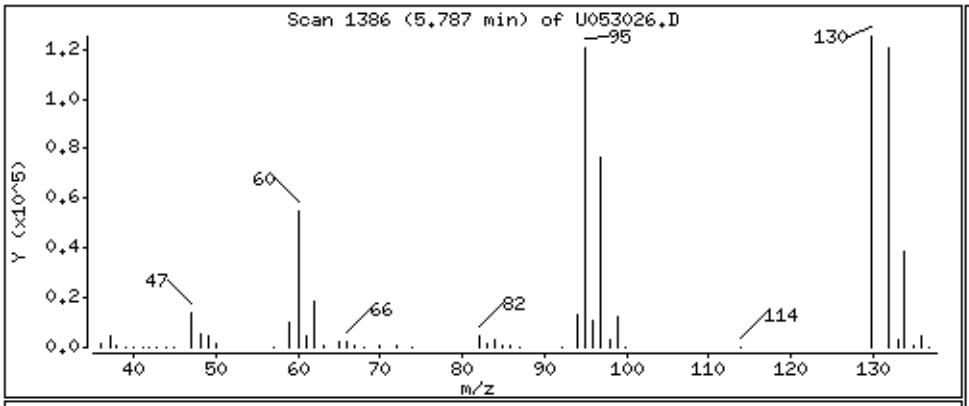
Operator: TS

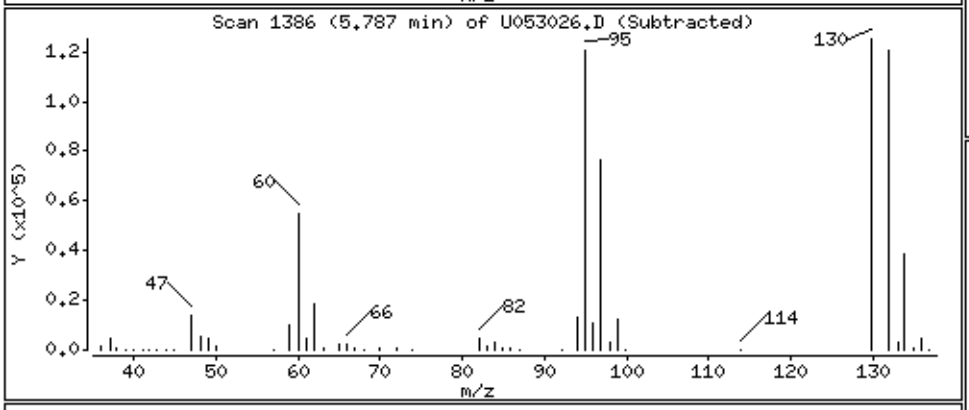
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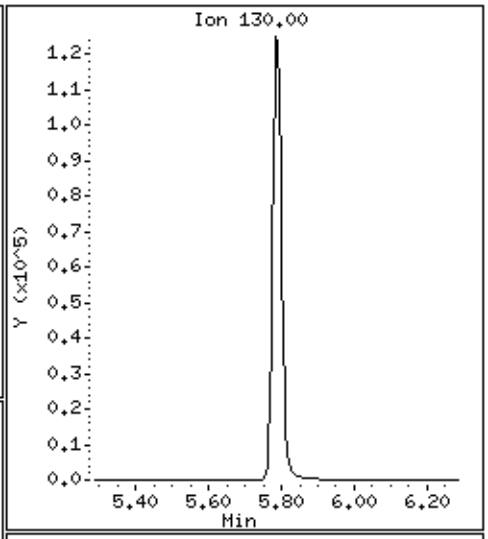
Column diameter: 0.18

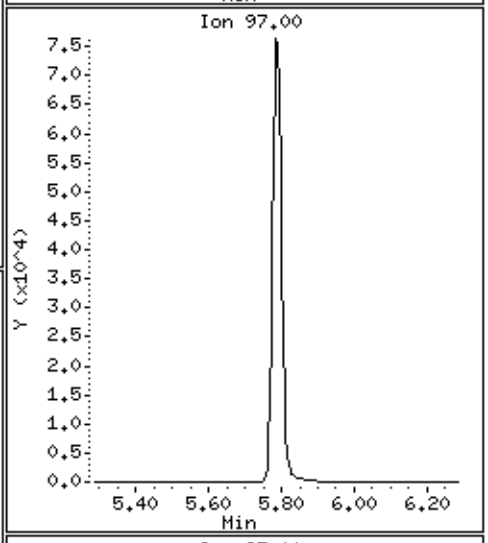
38 Trichloroethene

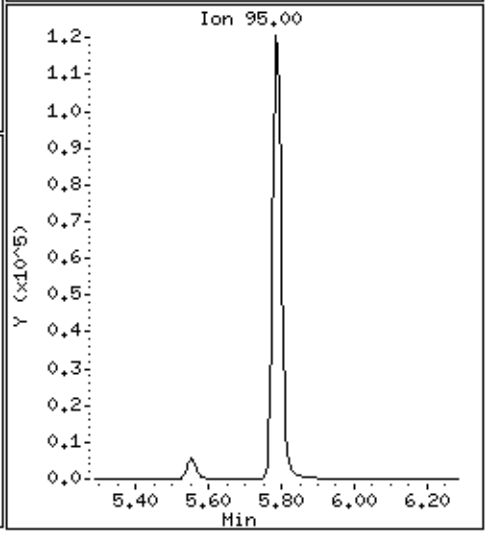
Concentration: 1067.32 ug/l











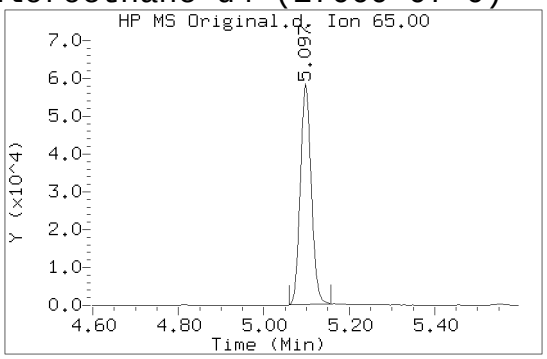
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240530.b\U053026.D
Inj Date : 30-MAY-2024 23:43
InstruID : VOA9.i
LabSampID : HS24051490-05

1,2-Dichloroethane-d4 (17060-07-0)

Reason Code:

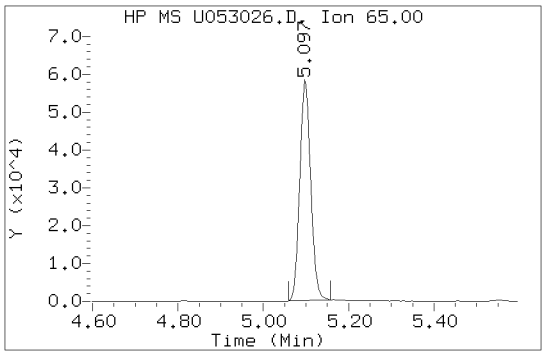
BEFORE

MASS
65
AREA
105929
HEIGHT
58333
24-Jun-2024
08:29
r
patel



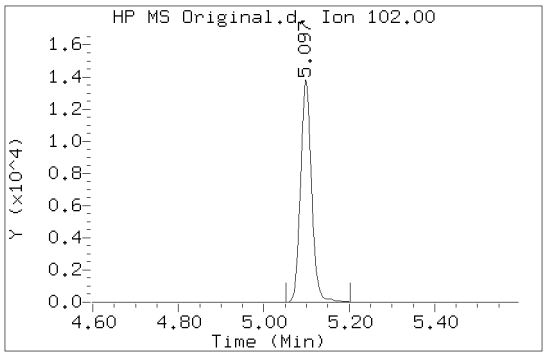
AFTER

MASS
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AREA
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HEIGHT
58333
24-Jun-2024
08:29
r
patel



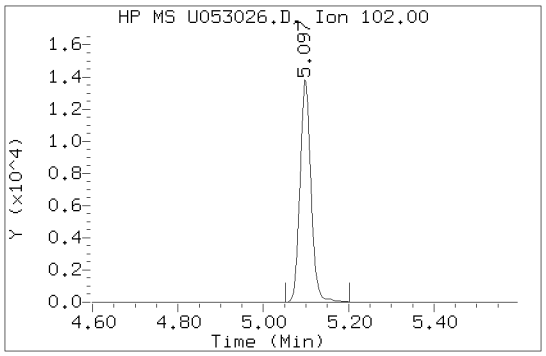
BEFORE

MASS
102
AREA
25295
HEIGHT
13816
24-Jun-2024
08:29
r
patel



AFTER

MASS
102
AREA
25295
HEIGHT
13816
24-Jun-2024
08:29
r
patel

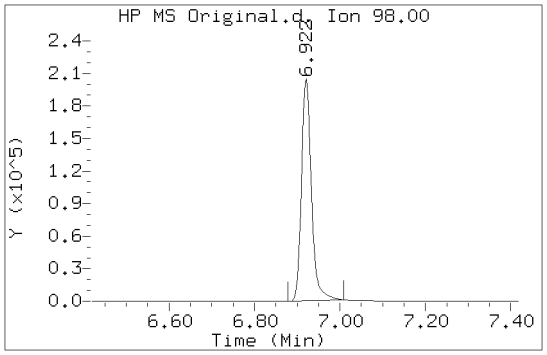


Toluene-d8 (2037-26-5)

Reason Code:

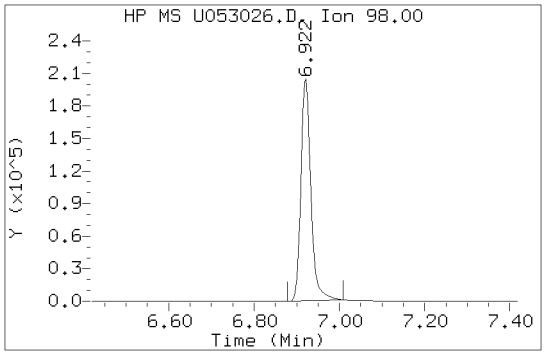
BEFORE

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98
AREA
337371
HEIGHT
204579
24-Jun-2024
08:29
r
patel



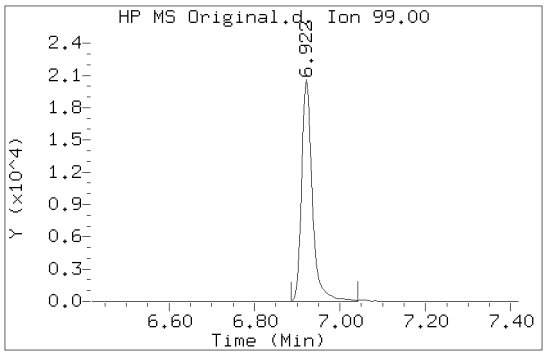
AFTER

MASS
98
AREA
337371
HEIGHT
204579
24-Jun-2024
08:29
r
patel



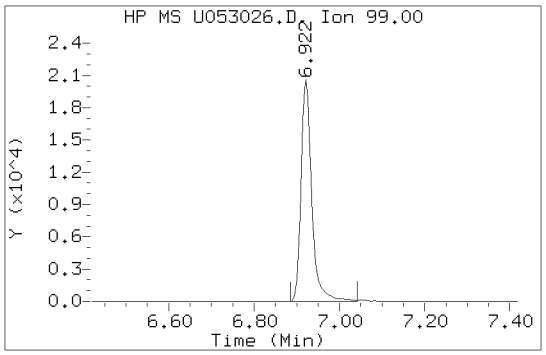
BEFORE

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HEIGHT
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24-Jun-2024
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AFTER

MASS
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HEIGHT
20608
24-Jun-2024
08:29
r
patel



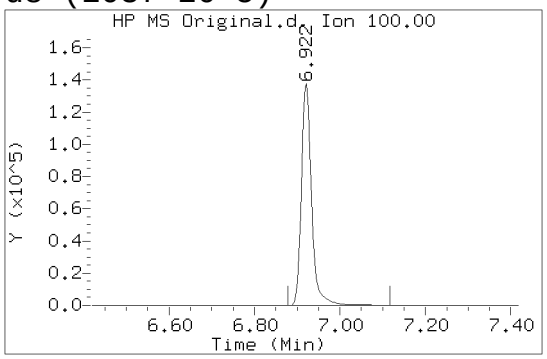
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240530.b\U053026.D
Inj Date : 30-MAY-2024 23:43
InstruID : VOA9.i
LabSampID : HS24051490-05

Toluene-d8 (2037-26-5)

Reason Code:

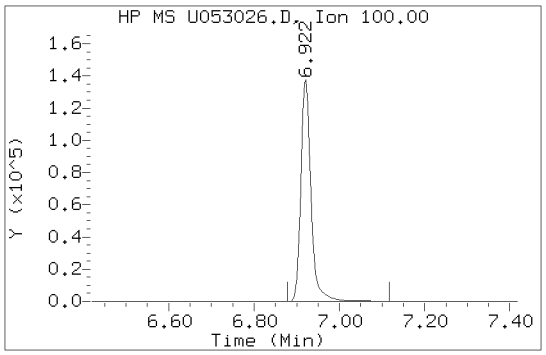
BEFORE

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AREA
231638
HEIGHT
137664
24-Jun-2024
08:29
r
patel



AFTER

MASS
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AREA
231638
HEIGHT
137664
24-Jun-2024
08:29
r
patel



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240530.b\U053027.D Page 1
Report Date: 24-Jun-2024 08:30

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240530.b\U053027.D
Lab Smp Id: HS24051490-05MS Client Smp ID: HS24051490-05MS
Inj Date : 31-MAY-2024 00:04
Operator : TS Inst ID: VOA9.i
Smp Info : HS24051490-05MS;HS24051490-05MS;3;;MS
Misc Info : V9;WATER;0;10;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240530.b\8260C.m
Meth Date : 24-Jun-2024 08:29 VOA9.i Quant Type: ISTD
Cal Date : 29-MAY-2024 11:00 Cal File: U052903.D
Als bottle: 26 QC Sample: MS
Dil Factor: 10.00000
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	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	4.815	4.811	(1.000)	246570	50.0000	
2 Dichlorodifluoromethane	85	1.164	1.160	(0.242)	22668	24.6608	246.60
3 Chloromethane	50	1.295	1.291	(0.269)	86005	25.8097	258.09
4 Propionitrile	54	4.335	4.332	(0.900)	46019	170.151	1701.50(a)
5 Vinyl Chloride	62	1.378	1.374	(0.286)	41460	22.2667	222.66
6 Bromomethane	94	1.606	1.599	(0.334)	15898	18.3011	183.01
7 Chloroethane	64	1.696	1.689	(0.352)	28949	22.4000	224.00
8 Trichlorofluoromethane	101	1.891	1.887	(0.393)	50785	22.9679	229.67
9 Acrolein	56	2.262	2.259	(0.470)	2766	30.6357	306.35
10 Acetone	43	2.409	2.405	(0.500)	23883	30.8060	308.06
11 1,1-Dichloroethene	96	2.330	2.326	(0.484)	31524	19.3942	193.94
12 Isobutyl Alcohol	43	5.284	5.280	(1.097)	98857	379.138	3791.38(a)
13 Acetonitrile	39	2.671	2.667	(0.555)	33406	167.020	1670.20(a)
14 Allyl Chloride	41	2.671	2.667	(0.555)	78522	16.3801	163.80(a)
15 Iodomethane	142	2.465	2.461	(0.512)	11355	65.7733	657.73
16 Acrylonitrile	53	3.065	3.061	(0.636)	22260	32.3286	323.28
17 Methylene Chloride	84	2.791	2.787	(0.580)	36386	18.4875	184.87
18 Methyl tert-butyl ether	73	3.080	3.076	(0.640)	78218	17.0966	170.96
19 Carbon Disulfide	76	2.517	2.514	(0.523)	171025	37.5079	375.07
20 trans-1,2-Dichloroethene	96	3.057	3.053	(0.635)	32857	17.8766	178.76

21 Vinyl Acetate	43	4.339	4.335 (0.901)	37124	34.1651	341.65
22 1,1-Dichloroethane	63	3.511	3.507 (0.729)	62908	17.8167	178.16

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240530.b\U053027.D Page 2
Report Date: 24-Jun-2024 08:30

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
	23 Chloroprene	53	3.608	3.604	(0.749)	51393	19.8502	198.50
	24 2-Butanone	43	4.264	4.260	(0.886)	35833	32.5194	325.19
	25 Methacrylonitrile	41	4.493	4.493	(0.933)	21053	19.0028	190.02(a)
	26 2,2-Dichloropropane	77	4.178	4.178	(0.868)	36286	15.6576	156.57
	27 cis-1,2-Dichloroethene	96	4.193	4.189	(0.871)	38066	16.7693	167.69
	28 Chloroform	83	4.572	4.568	(0.949)	63515	18.0162	180.16
	29 Bromochloromethane	128	4.467	4.463	(0.928)	18579	17.9590	179.58
$	30 Dibromofluoromethane	113	4.748	4.744	(0.986)	91161	58.0015	58.00
	31 1,1,1-Trichloroethane	97	4.740	4.740	(0.984)	48797	19.7649	197.64
	32 1,1-Dichloropropene	75	4.920	4.916	(0.887)	46088	17.8948	178.94
	33 1,2-Dichloroethane	62	5.175	5.171	(0.932)	52122	20.0614	200.61
	34 Carbon Tetrachloride	117	4.909	4.909	(0.885)	38350	19.0086	190.08
$	35 1,2-Dichloroethane-d4	65	5.096	5.093	(1.058)	110373	58.1740	58.17
*	36 1,4-Difluorobenzene	114	5.550	5.550	(1.000)	355589	50.0000	
	37 Benzene	78	5.138	5.134	(0.926)	146495	17.4908	174.90
	38 Trichloroethene	130	5.786	5.786	(1.043)	253980	123.205	1232.05
	39 Bromodichloromethane	83	6.277	6.277	(1.131)	39279	17.4370	174.36
	40 Methyl Methacrylate	41	5.824	5.824	(1.209)	10999	13.3508	133.50(a)
	42 1,2-Dichloropropane	63	6.007	6.007	(1.082)	39203	17.7470	177.47
	43 2-Nitropropane	43	6.506	6.506	(1.351)	6855	17.8206	178.20
	44 Dibromomethane	93	6.116	6.116	(1.102)	21783	16.9812	169.81
	45 4-Methyl-2-Pentanone	43	6.851	6.851	(0.837)	73750	34.5537	345.53
	46 cis-1,3-Dichloropropene	75	6.690	6.686	(1.205)	43199	15.4184	154.18
*	47 Chlorobenzene-d5	117	8.182	8.182	(1.000)	324527	50.0000	
$	48 Toluene-d8	98	6.918	6.918	(0.846)	356255	57.5381	57.53
	49 Ethyl Methacrylate	69	7.289	7.289	(1.313)	47620	17.3131	173.13(a)
	50 Toluene	91	6.978	6.978	(0.853)	153003	17.3685	173.68
	51 trans-1,3-Dichloropropene	75	7.196	7.196	(1.296)	34476	15.2834	152.83
	52 2-Hexanone	43	7.589	7.589	(0.928)	45856	34.0269	340.26
	53 1,1,2-Trichloroethane	83	7.353	7.353	(0.899)	28041	18.0299	180.29
	54 1,3-Dichloropropane	76	7.496	7.496	(0.916)	59884	16.6889	166.88
	55 Dibromochloromethane	129	7.690	7.690	(0.940)	28508	15.9164	159.16
	56 Tetrachloroethene	164	7.454	7.454	(0.911)	30158	19.6018	196.01
	57 1,2-Dibromoethane	107	7.780	7.780	(0.951)	30426	15.7055	157.05
	58 1-Chlorohexane	55	8.193	8.193	(1.476)	31492	21.2741	212.74
	59 Chlorobenzene	112	8.208	8.208	(1.003)	96608	17.2724	172.72
	60 1,1,1,2-Tetrachloroethane	131	8.279	8.283	(1.012)	30699	17.1998	171.99
	61 Ethylbenzene	106	8.305	8.305	(1.015)	49106	19.2663	192.66
	62 m,p-Xylenes	106	8.406	8.406	(1.027)	120481	35.9553	359.55
	63 o-Xylene	106	8.744	8.744	(1.069)	59792	18.3409	183.40
	64 Styrene	104	8.759	8.759	(1.071)	99744	18.5690	185.68
	66 Bromoform	173	8.916	8.916	(1.090)	16268	14.6515	146.51
	67 Isopropylbenzene	105	9.059	9.059	(1.107)	150699	19.4552	194.55
	68 1,1,2,2-Tetrachloroethane	83	9.325	9.325	(0.917)	45816	15.4606	154.60
$	69 4-Bromofluorobenzene	95	9.190	9.190	(1.123)	132223	58.6026	58.60
*	70 1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	178280	50.0000	
	71 1,2,3-Trichloropropane	75	9.359	9.359	(0.920)	42529	15.3044	153.04
	72 trans-1,4-Dichloro-2-butene	53	9.374	9.374	(1.146)	8404	15.1567	151.56(a)
	73 n-Propylbenzene	91	9.411	9.411	(0.926)	174568	18.1698	181.69
	74 Bromobenzene	156	9.314	9.317	(0.916)	41085	16.7592	167.59
	75 1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	119315	18.3644	183.64
	76 2-Chlorotoluene	91	9.479	9.479	(0.932)	107385	19.1696	191.69

77	4-Chlorotoluene	91	9.572	9.572 (0.941)	122053	17.6933	176.93
78	tert-Butylbenzene	119	9.835	9.835 (0.967)	105346	19.5299	195.29

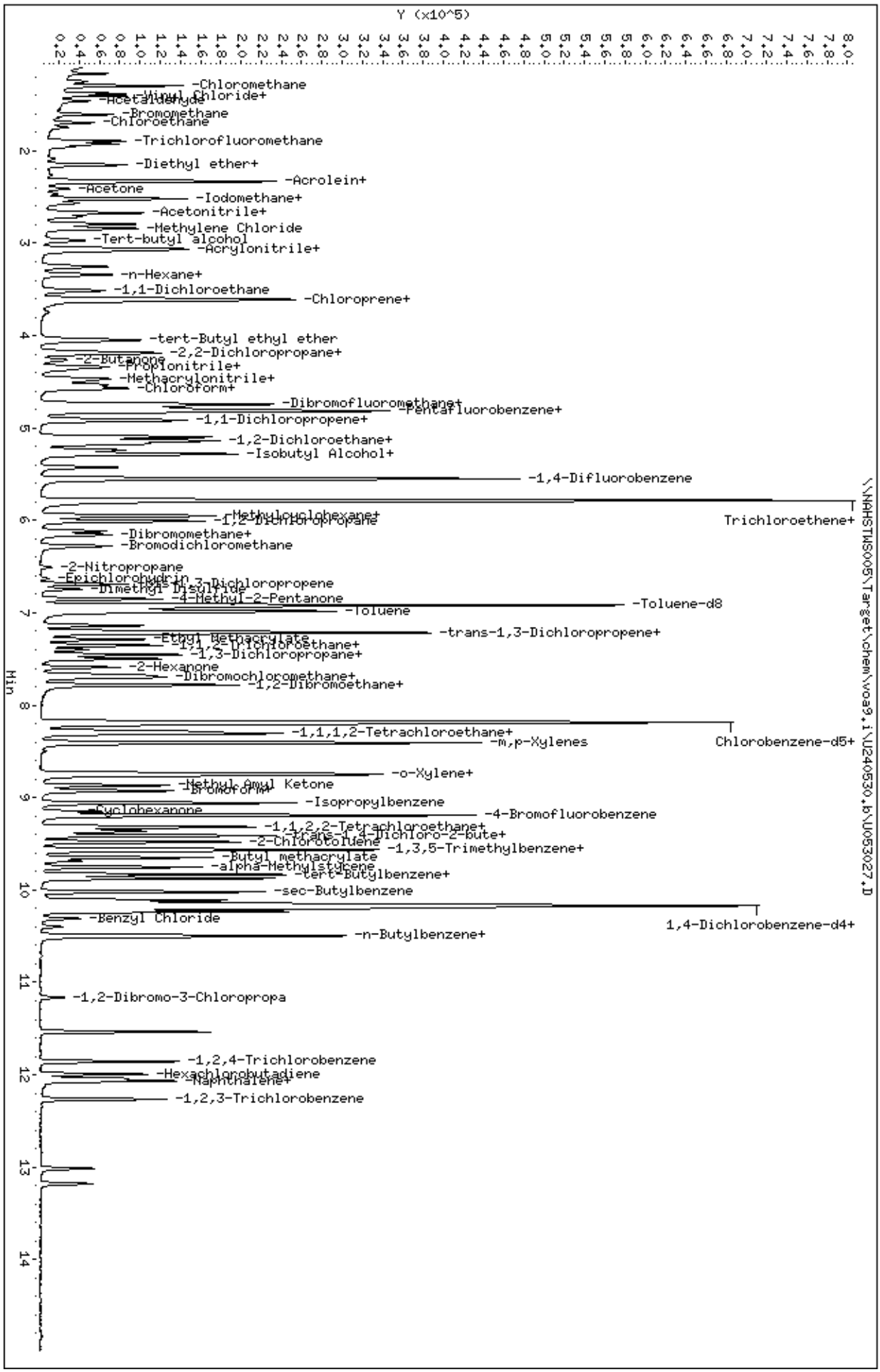
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
79	1,2,4-Trimethylbenzene	105	9.876	9.876	(0.971)	114995	16.1638	161.63
81	sec-Butylbenzene	105	10.018	10.018	(0.985)	139605	19.0696	190.69
82	p-Isopropyltoluene	119	10.142	10.142	(0.997)	118895	18.6369	186.36
83	1,3-Dichlorobenzene	146	10.112	10.112	(0.994)	71011	17.1531	171.53
84	1,4-Dichlorobenzene	146	10.187	10.187	(1.002)	75501	16.4682	164.68
86	Benzyl Chloride	91	10.311	10.307	(1.260)	25444	10.9352	109.35
87	n-Butylbenzene	91	10.491	10.491	(1.032)	103527	18.5209	185.20
88	1,2-Dichlorobenzene	146	10.502	10.502	(1.033)	70568	16.4525	164.52
89	1,2-Dibromo-3-Chloropropane	155	11.166	11.165	(1.098)	4757	13.7001	137.00
90	1,2,4-Trichlorobenzene	180	11.855	11.855	(1.166)	42028	15.5509	155.50
91	Hexachlorobutadiene	225	11.994	11.998	(1.180)	19233	17.7366	177.36
92	Naphthalene	128	12.065	12.065	(1.187)	91804	14.1437	141.43
93	1,2,3-Trichlorobenzene	180	12.268	12.268	(1.206)	38841	15.4271	154.27
146	Methyl acetate	43	2.712	2.708	(0.563)	40677	20.9963	209.96
138	Freon TF	101	2.334	2.330	(0.485)	53846	39.6209	396.20
141	Cyclohexane	56	4.781	4.778	(0.993)	57146	24.1789	241.78
142	Tetrahydrofuran	42	4.542	4.542	(0.943)	11749	32.7115	327.11
147	Methylcyclohexane	55	5.944	5.944	(1.071)	83285	19.7004	197.00
135	1,4-Dioxane	88	6.165	6.165	(1.280)	5601	214.213	2142.13
132	n-Butanol	56	5.824	5.824	(1.209)	14519	218.584	2185.83(a)
136	n-Hexane	57	3.342	3.334	(0.694)	34355	21.6538	216.53
139	Diethyl ether	59	2.146	2.142	(0.446)	19878	15.2718	152.71
148	Tert-butyl alcohol	59	2.967	2.971	(0.616)	46707	269.849	2698.48
149	Isopropyl alcohol	45	2.566	2.566	(0.533)	35363	263.366	2633.66
152	Amyl alcohol	42	7.398	7.398	(0.904)	16922	257.554	2575.54
156	Diisopropyl ether	45	3.619	3.616	(0.752)	115697	18.3774	183.77
162	Butyl acrylate	55	8.733	8.729	(1.067)	63021	19.1376	191.37
187	n-Amyl acetate	43	8.928	8.928	(1.091)	59973	17.0197	170.19
164	Dicyclopentadiene	66	10.198	10.198	(1.003)	179442	19.6243	196.24
166	1,2,3-Trimethylbenzene	105	10.232	10.232	(1.006)	125868	20.6915	206.91
167	Ethanol	45	2.086	2.082	(0.433)	6690	263.462	2634.61
172	tert-Butyl formate	59	5.239	5.243	(1.088)	37253	19.1267	191.26
173	3,3-Dimethyl-1-butanol	57	7.780	7.780	(0.951)	70018	309.979	3099.79
174	tert-Amyl methyl ether	73	5.284	5.284	(1.097)	94046	16.3007	163.00
175	tert-Butyl ethyl ether	59	4.047	4.047	(0.840)	95178	16.8775	168.77
176	tert-Amyl alcohol	59	5.239	5.243	(1.088)	37253	189.067	1890.67
151	4-Methyl-2-pentanol	45	7.214	7.214	(1.300)	198159	357.452	3574.51
140	1,3-Butadiene	54	1.404	1.400	(0.292)	18770	20.5745	205.74
182	Epichlorohydrin	57	6.630	6.630	(1.195)	6320	54.2306	542.30
M 94	1,2-Dichloroethylene (total)	96				70923	34.5295	345.29
M 95	Xylenes (total)	106				180273	55.7982	557.98
145	alpha-Methylstyrene	118	9.752	9.752	(0.959)	43849	16.7800	167.80
130	Ethyl Acetate	43	4.339	4.335	(0.901)	37124	16.3468	163.46
131	Methyl Acrylate	55	4.369	4.365	(0.907)	37186	16.5575	165.57
189	n-Butyl acetate	43	7.702	7.702	(0.941)	54268	15.9288	159.28
134	Cyclohexanone	55	9.149	9.152	(0.900)	24704	253.777	2537.76(a)
185	Isoprene	39	2.154	2.150	(0.447)	8613	22.6601	226.60
188	Isopropyl acetate	43	5.284	5.280	(0.952)	98941	16.7695	167.69
150	Allyl alcohol	57	3.342	3.334	(0.694)	34355	433.076	4330.76
194	Acetaldehyde	44	1.460	1.456	(0.303)	74017	181.873	1818.72
195	Methyl Amyl Ketone	43	8.868	8.864	(1.084)	72871	18.4327	184.32
200	Dimethyl Disulfide	94	6.742	6.742	(0.824)	15055	13.7199	137.19

133 Ethyl Acrylate	55	5.944	5.944 (1.234)	83285	19.7359	197.35
163 Butyl methacrylate	41	9.647	9.647 (0.949)	51063	24.7532	247.53

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
203 2-Ethylhexyl Acrylate	55	12.039	12.039	(1.184)	32476	16.2120	162.11

QC Flag Legend

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



Data File: \\NAHSTWS005\Target\chem\voa9,i\U240530,b\U053027,D
Date : 31-MAY-2024 00:04
Client ID: HS2405l490-05MS
Sample Info: HS2405l490-05MS;HS2405l490-05MS;3;;MS
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9,i
Operator: TS
Column diameter: 0.18

Data File : \\NAHSTWS005\Target\chem\voa9.i\U240530.b\U053027.D
Inj Date : 31-MAY-2024 00:04
InstruID : VOA9.i
LabSampID : HS24051490-05MS

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240530.b\U053028.D Page 1
Report Date: 24-Jun-2024 08:30

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240530.b\U053028.D
Lab Smp Id: HS24051490-05MSD Client Smp ID: HS24051490-05MSD
Inj Date : 31-MAY-2024 00:26
Operator : TS Inst ID: VOA9.i
Smp Info : HS24051490-05MSD;HS24051490-05MSD;3;;MSD
Misc Info : V9;WATER;0;10;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240530.b\8260C.m
Meth Date : 24-Jun-2024 08:29 VOA9.i Quant Type: ISTD
Cal Date : 29-MAY-2024 11:00 Cal File: U052903.D
Als bottle: 26 QC Sample: MSD
Dil Factor: 10.00000
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	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	4.812	4.811	(1.000)	245361	50.0000	
2 Dichlorodifluoromethane	85	1.160	1.160	(0.241)	21866	23.9055	239.05
3 Chloromethane	50	1.292	1.291	(0.268)	81631	24.5841	245.84
4 Propionitrile	54	4.332	4.332	(0.900)	46801	174.003	1740.02(a)
5 Vinyl Chloride	62	1.374	1.374	(0.286)	39638	21.3931	213.93
6 Bromomethane	94	1.603	1.599	(0.333)	15433	17.8037	178.03
7 Chloroethane	64	1.693	1.689	(0.352)	27868	21.6683	216.68
8 Trichlorofluoromethane	101	1.888	1.887	(0.392)	48908	22.2280	222.27
9 Acrolein	56	2.259	2.259	(0.469)	2861	31.9597	319.59
10 Acetone	43	2.401	2.405	(0.499)	25630	33.3722	333.72
11 1,1-Dichloroethene	96	2.326	2.326	(0.484)	30909	19.1095	191.09
12 Isobutyl Alcohol	43	5.280	5.280	(1.097)	96882	373.253	3732.52(a)
13 Acetonitrile	39	2.664	2.667	(0.554)	33725	169.446	1694.46(a)
14 Allyl Chloride	41	2.667	2.667	(0.554)	77535	16.2532	162.53(a)
15 Iodomethane	142	2.461	2.461	(0.512)	12322	70.7254	707.25
16 Acrylonitrile	53	3.061	3.061	(0.636)	22840	33.3629	333.62
17 Methylene Chloride	84	2.787	2.787	(0.579)	35762	18.2448	182.44
18 Methyl tert-butyl ether	73	3.076	3.076	(0.639)	77357	16.9895	169.89
19 Carbon Disulfide	76	2.514	2.514	(0.522)	164657	36.2892	362.89
20 trans-1,2-Dichloroethene	96	3.053	3.053	(0.635)	31900	17.4415	174.41

21 Vinyl Acetate	43	4.335	4.335 (0.901)	37392	34.5813	345.81
22 1,1-Dichloroethane	63	3.507	3.507 (0.729)	61993	17.6441	176.44

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240530.b\U053028.D Page 2
Report Date: 24-Jun-2024 08:30

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
	23 Chloroprene	53	3.604	3.604	(0.749)	49323	19.1445	191.44
	24 2-Butanone	43	4.260	4.260	(0.885)	34725	31.6692	316.69
	25 Methacrylonitrile	41	4.489	4.493	(0.933)	35160	31.7464	317.46(a)
	26 2,2-Dichloropropane	77	4.174	4.178	(0.868)	34279	14.8644	148.64
	27 cis-1,2-Dichloroethene	96	4.189	4.189	(0.871)	36912	16.3411	163.41
	28 Chloroform	83	4.568	4.568	(0.949)	61654	17.5745	175.74
	29 Bromochloromethane	128	4.463	4.463	(0.928)	17902	17.3985	173.98
$	30 Dibromofluoromethane	113	4.744	4.744	(0.986)	90516	57.8779	57.87
	31 1,1,1-Trichloroethane	97	4.737	4.740	(0.984)	47271	19.2412	192.41
	32 1,1-Dichloropropene	75	4.917	4.916	(0.886)	46926	18.0278	180.27
	33 1,2-Dichloroethane	62	5.171	5.171	(0.932)	50458	19.2412	192.41
	34 Carbon Tetrachloride	117	4.905	4.909	(0.884)	37338	18.3116	183.11
$	35 1,2-Dichloroethane-d4	65	5.093	5.093	(1.058)	109909	58.2146	58.21
*	36 1,4-Difluorobenzene	114	5.550	5.550	(1.000)	359383	50.0000	
	37 Benzene	78	5.134	5.134	(0.925)	141712	16.7412	167.41
	38 Trichloroethene	130	5.782	5.786	(1.042)	244234	117.227	1172.26
	39 Bromodichloromethane	83	6.274	6.277	(1.130)	38491	16.9068	169.06
	40 Methyl Methacrylate	41	5.820	5.824	(1.210)	11147	13.5889	135.88(a)
	42 1,2-Dichloropropane	63	6.004	6.007	(1.082)	37756	16.9115	169.11
	43 2-Nitropropane	43	6.506	6.506	(1.352)	6364	16.7615	167.61
	44 Dibromomethane	93	6.116	6.116	(1.102)	22155	17.0888	170.88
	45 4-Methyl-2-Pentanone	43	6.851	6.851	(0.837)	73633	34.3183	343.18
	46 cis-1,3-Dichloropropene	75	6.690	6.686	(1.205)	42844	15.1484	151.48
*	47 Chlorobenzene-d5	117	8.182	8.182	(1.000)	326281	50.0000	
$	48 Toluene-d8	98	6.918	6.918	(0.846)	360796	57.9568	57.95
	49 Ethyl Methacrylate	69	7.286	7.289	(1.313)	47943	17.2465	172.46(a)
	50 Toluene	91	6.978	6.978	(0.853)	147205	16.6205	166.20
	51 trans-1,3-Dichloropropene	75	7.196	7.196	(1.296)	34435	15.1190	151.18
	52 2-Hexanone	43	7.589	7.589	(0.928)	45724	33.7631	337.63
	53 1,1,2-Trichloroethane	83	7.349	7.353	(0.898)	27920	17.8527	178.52
	54 1,3-Dichloropropane	76	7.496	7.496	(0.916)	59825	16.5829	165.82
	55 Dibromochloromethane	129	7.687	7.690	(0.940)	27853	15.4962	154.96
	56 Tetrachloroethene	164	7.454	7.454	(0.911)	29152	18.8460	188.46
	57 1,2-Dibromoethane	107	7.780	7.780	(0.951)	30450	15.6334	156.33
	58 1-Chlorohexane	55	8.193	8.193	(1.476)	30792	20.5586	205.58
	59 Chlorobenzene	112	8.208	8.208	(1.003)	94491	16.8031	168.03
	60 1,1,1,2-Tetrachloroethane	131	8.279	8.283	(1.012)	30034	16.7368	167.36
	61 Ethylbenzene	106	8.305	8.305	(1.015)	46950	18.3280	183.28
	62 m,p-Xylenes	106	8.407	8.406	(1.027)	119408	35.4334	354.33
	63 o-Xylene	106	8.744	8.744	(1.069)	58977	18.0089	180.08
	64 Styrene	104	8.759	8.759	(1.071)	97906	18.1288	181.28
	66 Bromoform	173	8.916	8.916	(1.090)	16345	14.6429	146.42
	67 Isopropylbenzene	105	9.059	9.059	(1.107)	146059	18.7548	187.54
	68 1,1,2,2-Tetrachloroethane	83	9.325	9.325	(0.917)	45320	15.3085	153.08
$	69 4-Bromofluorobenzene	95	9.190	9.190	(1.123)	134449	59.2700	59.27
*	70 1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	178102	50.0000	
	71 1,2,3-Trichloropropane	75	9.359	9.359	(0.920)	43049	15.5070	155.06
	72 trans-1,4-Dichloro-2-butene	53	9.374	9.374	(1.146)	8577	15.3856	153.85(a)
	73 n-Propylbenzene	91	9.411	9.411	(0.926)	170429	17.7568	177.56
	74 Bromobenzene	156	9.314	9.317	(0.916)	39870	16.2799	162.79
	75 1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	117160	18.0485	180.48
	76 2-Chlorotoluene	91	9.479	9.479	(0.932)	105798	18.9002	189.00

77	4-Chlorotoluene	91	9.572	9.572 (0.941)	119387	17.3241	173.24
78	tert-Butylbenzene	119	9.835	9.835 (0.967)	105723	19.6194	196.19

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240530.b\U053028.D Page 3
Report Date: 24-Jun-2024 08:30

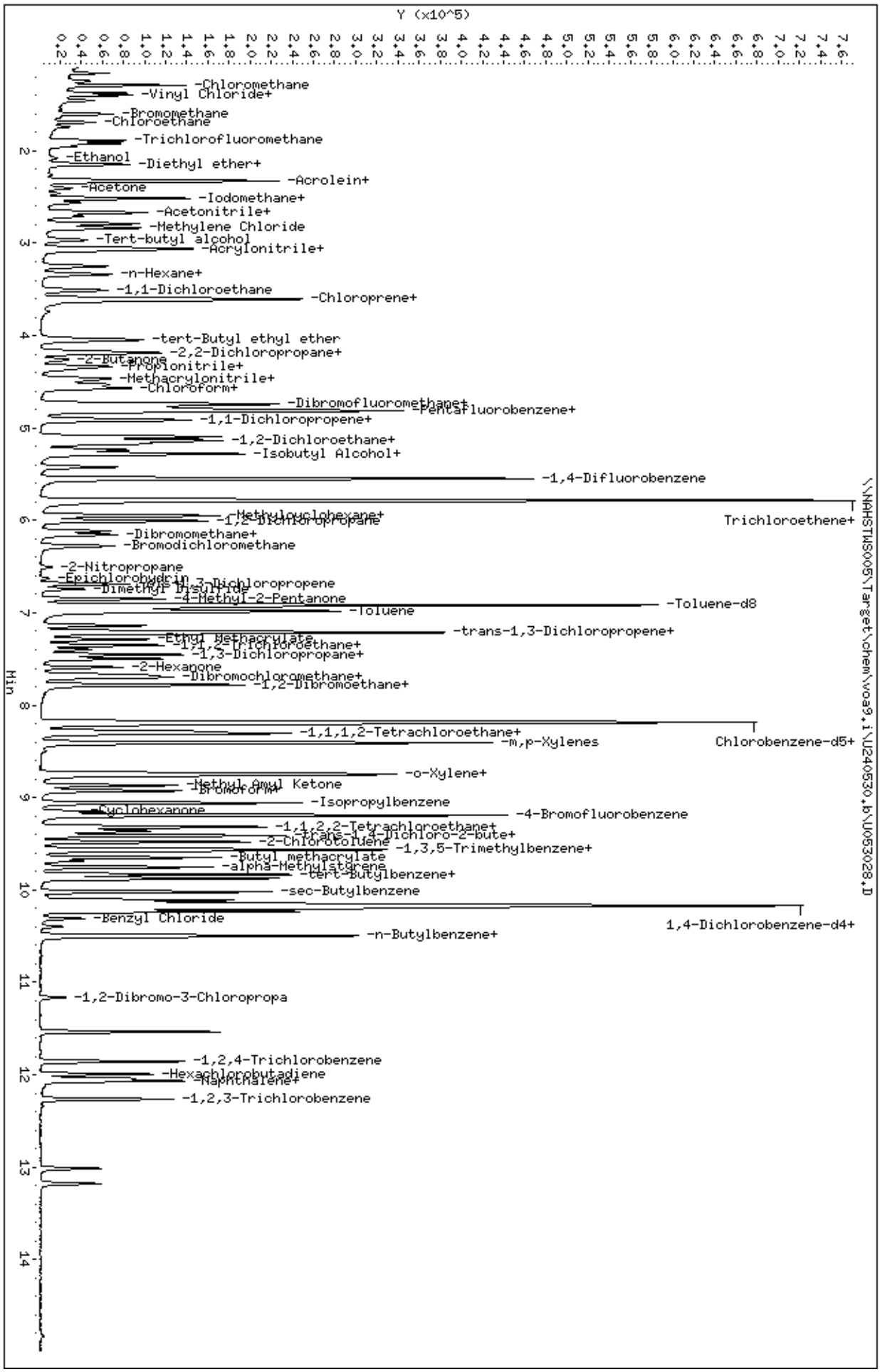
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
79	1,2,4-Trimethylbenzene	105	9.876	9.876	(0.971)	114344	16.0802	160.80
81	sec-Butylbenzene	105	10.018	10.018	(0.985)	136672	18.6876	186.87
82	p-Isopropyltoluene	119	10.142	10.142	(0.997)	117271	18.4007	184.00
83	1,3-Dichlorobenzene	146	10.112	10.112	(0.994)	70165	16.9657	169.65
84	1,4-Dichlorobenzene	146	10.187	10.187	(1.002)	74261	16.2140	162.13
86	Benzyl Chloride	91	10.307	10.307	(1.260)	26319	11.2141	112.14
87	n-Butylbenzene	91	10.491	10.491	(1.032)	101144	18.1223	181.22
88	1,2-Dichlorobenzene	146	10.502	10.502	(1.033)	69911	16.3156	163.15
89	1,2-Dibromo-3-Chloropropane	155	11.166	11.165	(1.098)	4376	12.6918	126.91
90	1,2,4-Trichlorobenzene	180	11.855	11.855	(1.166)	41365	15.3208	153.20
91	Hexachlorobutadiene	225	11.994	11.998	(1.180)	18980	17.5208	175.20
92	Naphthalene	128	12.065	12.065	(1.187)	94174	14.5255	145.25
93	1,2,3-Trichlorobenzene	180	12.268	12.268	(1.206)	39242	15.6019	156.01
146	Methyl acetate	43	2.709	2.708	(0.563)	38420	19.9421	199.42
138	Freon TF	101	2.330	2.330	(0.484)	51890	38.4141	384.14
141	Cyclohexane	56	4.778	4.778	(0.993)	55318	23.4975	234.97
142	Tetrahydrofuran	42	4.534	4.542	(0.942)	12027	33.7005	337.00
147	Methylcyclohexane	55	5.944	5.944	(1.071)	82080	19.2309	192.30
135	1,4-Dioxane	88	6.165	6.165	(1.281)	5725	220.457	2204.56
132	n-Butanol	56	5.820	5.824	(1.210)	15362	232.415	2324.14(a)
136	n-Hexane	57	3.338	3.334	(0.694)	32603	20.6923	206.92
139	Diethyl ether	59	2.139	2.142	(0.445)	19750	15.2474	152.47
148	Tert-butyl alcohol	59	2.963	2.971	(0.616)	45900	266.276	2662.75
149	Isopropyl alcohol	45	2.562	2.566	(0.533)	35920	269.103	2691.03
152	Amyl alcohol	42	7.398	7.398	(0.904)	16866	255.505	2555.05
156	Diisopropyl ether	45	3.616	3.616	(0.751)	114947	18.3482	183.48
162	Butyl acrylate	55	8.729	8.729	(1.067)	63750	19.2478	192.47
187	n-Amyl acetate	43	8.928	8.928	(1.091)	60646	17.1182	171.18
164	Dicyclopentadiene	66	10.195	10.198	(1.003)	173489	18.9922	189.92
166	1,2,3-Trimethylbenzene	105	10.232	10.232	(1.006)	124470	20.4896	204.89
167	Ethanol	45	2.082	2.082	(0.433)	6980	277.023	2770.23
172	tert-Butyl formate	59	5.235	5.243	(1.088)	46296	23.8868	238.86
173	3,3-Dimethyl-1-butanol	57	7.777	7.780	(0.951)	69838	307.520	3075.20
174	tert-Amyl methyl ether	73	5.280	5.284	(1.097)	96635	16.8320	168.31
175	tert-Butyl ethyl ether	59	4.043	4.047	(0.840)	94563	16.8510	168.51
176	tert-Amyl alcohol	59	5.235	5.243	(1.088)	46296	236.120	2361.20
151	4-Methyl-2-pentanol	45	7.214	7.214	(1.300)	197689	353.069	3530.68
140	1,3-Butadiene	54	1.396	1.400	(0.290)	18214	20.0634	200.63
182	Epichlorohydrin	57	6.630	6.630	(1.195)	6629	56.2007	562.00
M 94	1,2-Dichloroethylene (total)	96				68812	33.6668	336.66
M 95	Xylenes (total)	106				178385	54.6152	546.15
145	alpha-Methylstyrene	118	9.752	9.752	(0.959)	45465	17.3876	173.87
130	Ethyl Acetate	43	4.335	4.335	(0.901)	37392	16.5460	165.45
131	Methyl Acrylate	55	4.365	4.365	(0.907)	37223	16.6559	166.55
189	n-Butyl acetate	43	7.702	7.702	(0.941)	55914	16.3237	163.23
134	Cyclohexanone	55	9.153	9.152	(0.900)	24753	254.500	2545.00(a)
185	Isoprene	39	2.150	2.150	(0.447)	8366	22.1413	221.41
188	Isopropyl acetate	43	5.280	5.280	(0.951)	95234	15.9708	159.70
150	Allyl alcohol	57	3.338	3.334	(0.694)	32603	413.845	4138.45
194	Acetaldehyde	44	1.453	1.456	(0.302)	63965	158.561	1585.61
195	Methyl Amyl Ketone	43	8.864	8.864	(1.083)	73664	18.5331	185.33
200	Dimethyl Disulfide	94	6.742	6.742	(0.824)	14840	13.5509	135.50

133 Ethyl Acrylate	55	5.944	5.944 (1.235)	82080	19.5533	195.53	
163 Butyl methacrylate	41	9.647	9.647 (0.949)	50891	24.6945	246.94	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
203 2-Ethylhexyl Acrylate	55	12.039	12.039	(1.184)	33257	16.5776	165.77

QC Flag Legend

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



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240530.b\U053028.D
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Client ID: HS2405l490-05MSD
Sample Info: HS2405l490-05MSD;HS2405l490-05MSD;3;;MSD
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9.i
Operator: TS
Column diameter: 0.18

Data File : \\NAHSTWS005\Target\chem\voa9.i\U240530.b\U053028.D
Inj Date : 31-MAY-2024 00:26
InstruID : VOA9.i
LabSampID : HS24051490-05MSD

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240530.b\U053029.D Page 1
Report Date: 24-Jun-2024 08:30

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240530.b\U053029.D
Lab Smp Id: CCV Client Smp ID: CCV
Inj Date : 31-MAY-2024 00:47
Operator : TS Inst ID: VOA9.i
Smp Info : CCV;CCV;2;;CCV-END
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240530.b\8260C.m
Meth Date : 24-Jun-2024 08:30 VOA9.i Quant Type: ISTD
Cal Date : 29-MAY-2024 11:00 Cal File: U052903.D
Als bottle: 27 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	4.815	4.815	(1.000)	244283	50.0000	
2	Dichlorodifluoromethane	85	1.172	1.172	(0.243)	48661	50.0000	53.43
3	Chloromethane	50	1.303	1.303	(0.271)	181626	50.0000	55.84
4	Propionitrile	54	4.339	4.339	(0.901)	127603	500.000	476.80
5	Vinyl Chloride	62	1.385	1.385	(0.288)	91452	50.0000	49.57
6	Bromomethane	94	1.610	1.610	(0.334)	33686	50.0000	41.45
7	Chloroethane	64	1.700	1.700	(0.353)	65568	50.0000	50.78
8	Trichlorofluoromethane	101	1.899	1.899	(0.394)	118744	50.0000	54.20
9	Acrolein	56	2.270	2.270	(0.471)	7840	100.000	91.38
10	Acetone	43	2.412	2.412	(0.501)	58907	100.000	79.73
11	1,1-Dichloroethene	96	2.337	2.337	(0.485)	75058	50.0000	46.60
12	Isobutyl Alcohol	43	5.284	5.284	(1.097)	254430	1000.00	977.54
13	Acetonitrile	39	2.675	2.675	(0.556)	101269	500.000	511.05
14	Allyl Chloride	41	2.675	2.675	(0.556)	239319	50.0000	49.95
15	Iodomethane	142	2.472	2.472	(0.513)	36413	100.000	121.46
16	Acrylonitrile	53	3.068	3.068	(0.637)	64041	100.000	94.47
17	Methylene Chloride	84	2.799	2.799	(0.581)	93268	50.0000	49.41
18	Methyl tert-butyl ether	73	3.083	3.083	(0.640)	219895	50.0000	48.60
19	Carbon Disulfide	76	2.525	2.525	(0.524)	416782	100.000	92.26
20	trans-1,2-Dichloroethene	96	3.061	3.061	(0.636)	80466	50.0000	44.18

21 Vinyl Acetate	43	4.343	4.343 (0.902)	96022	100.000	89.19
22 1,1-Dichloroethane	63	3.515	3.515 (0.730)	158649	50.0000	45.35

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240530.b\U053029.D Page 2
Report Date: 24-Jun-2024 08:30

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	23 Chloroprene	53	3.612	3.612	(0.750)	130756	50.0000	50.97
	24 2-Butanone	43	4.264	4.264	(0.886)	85651	100.000	78.45
	25 Methacrylonitrile	41	4.497	4.497	(0.934)	54624	50.0000	48.97(a)
	26 2,2-Dichloropropane	77	4.186	4.186	(0.869)	94721	50.0000	41.25
	27 cis-1,2-Dichloroethene	96	4.197	4.197	(0.872)	96375	50.0000	42.85
	28 Chloroform	83	4.575	4.575	(0.950)	159952	50.0000	45.79
	29 Bromochloromethane	128	4.470	4.470	(0.928)	48160	50.0000	46.54
$	30 Dibromofluoromethane	113	4.748	4.748	(0.986)	91124	50.0000	58.50
	31 1,1,1-Trichloroethane	97	4.744	4.744	(0.985)	126003	50.0000	51.51
	32 1,1-Dichloropropene	75	4.924	4.924	(0.887)	120260	50.0000	47.10
	33 1,2-Dichloroethane	62	5.175	5.175	(0.932)	128406	50.0000	48.96
	34 Carbon Tetrachloride	117	4.913	4.913	(0.885)	99817	50.0000	49.90
$	35 1,2-Dichloroethane-d4	65	5.096	5.096	(1.058)	108261	50.0000	57.59
*	36 1,4-Difluorobenzene	114	5.554	5.554	(1.000)	352497	50.0000	
	37 Benzene	78	5.138	5.138	(0.925)	367326	50.0000	44.24
	38 Trichloroethene	130	5.786	5.786	(1.042)	92802	50.0000	45.41
	39 Bromodichloromethane	83	6.277	6.277	(1.130)	105263	50.0000	47.13
	40 Methyl Methacrylate	41	5.824	5.824	(1.209)	33217	50.0000	39.23
	41 2-Chloroethylvinyl ether	63	6.573	6.573	(1.184)	57816	100.000	79.99
	42 1,2-Dichloropropane	63	6.007	6.007	(1.082)	100546	50.0000	45.91
	43 2-Nitropropane	43	6.506	6.506	(1.351)	19232	50.0000	45.85
	44 Dibromomethane	93	6.120	6.120	(1.102)	56887	50.0000	44.73
	45 4-Methyl-2-Pentanone	43	6.851	6.851	(0.837)	190765	100.000	87.71
	46 cis-1,3-Dichloropropene	75	6.690	6.690	(1.204)	134060	50.0000	45.51
*	47 Chlorobenzene-d5	117	8.182	8.182	(1.000)	323766	50.0000	
$	48 Toluene-d8	98	6.918	6.918	(0.846)	354598	50.0000	57.40
	49 Ethyl Methacrylate	69	7.289	7.289	(1.312)	116949	50.0000	42.89
	50 Toluene	91	6.978	6.978	(0.853)	373940	50.0000	42.54
	51 trans-1,3-Dichloropropene	75	7.196	7.196	(1.296)	108124	50.0000	44.88
	52 2-Hexanone	43	7.589	7.589	(0.928)	118100	100.000	83.82
	53 1,1,2-Trichloroethane	83	7.353	7.353	(0.899)	72327	50.0000	46.84
	54 1,3-Dichloropropane	76	7.496	7.496	(0.916)	155306	50.0000	43.38
	55 Dibromochloromethane	129	7.691	7.691	(0.940)	84483	50.0000	44.72
	56 Tetrachloroethene	164	7.454	7.454	(0.911)	72867	50.0000	47.47
	57 1,2-Dibromoethane	107	7.781	7.781	(0.951)	82399	50.0000	42.63
	58 1-Chlorohexane	55	8.193	8.193	(1.475)	71784	50.0000	49.05
	59 Chlorobenzene	112	8.208	8.208	(1.003)	241077	50.0000	43.20
	60 1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	82811	50.0000	46.50
	61 Ethylbenzene	106	8.305	8.305	(1.015)	121326	50.0000	47.07
	62 m,p-Xylenes	106	8.407	8.407	(1.027)	312489	100.000	93.86
	63 o-Xylene	106	8.744	8.744	(1.069)	152601	50.0000	45.66
	64 Styrene	104	8.759	8.759	(1.071)	252476	50.0000	47.11
	66 Bromoform	173	8.916	8.916	(1.090)	48735	50.0000	40.12
	67 Isopropylbenzene	105	9.059	9.059	(1.107)	375645	50.0000	48.60
	68 1,1,2,2-Tetrachloroethane	83	9.325	9.325	(0.917)	118687	50.0000	40.92
$	69 4-Bromofluorobenzene	95	9.190	9.190	(1.123)	131537	50.0000	58.43
*	70 1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	174457	50.0000	
	71 1,2,3-Trichloropropane	75	9.359	9.359	(0.920)	114288	50.0000	42.02
	72 trans-1,4-Dichloro-2-butene	53	9.374	9.374	(1.146)	22625	50.0000	40.90
	73 n-Propylbenzene	91	9.407	9.407	(0.925)	442749	50.0000	47.09
	74 Bromobenzene	156	9.314	9.314	(0.916)	105107	50.0000	43.81
	75 1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	306131	50.0000	47.85

76	2-Chlorotoluene	91	9.479	9.479 (0.932)	268176	50.0000	48.99
77	4-Chlorotoluene	91	9.572	9.572 (0.941)	308984	50.0000	45.77

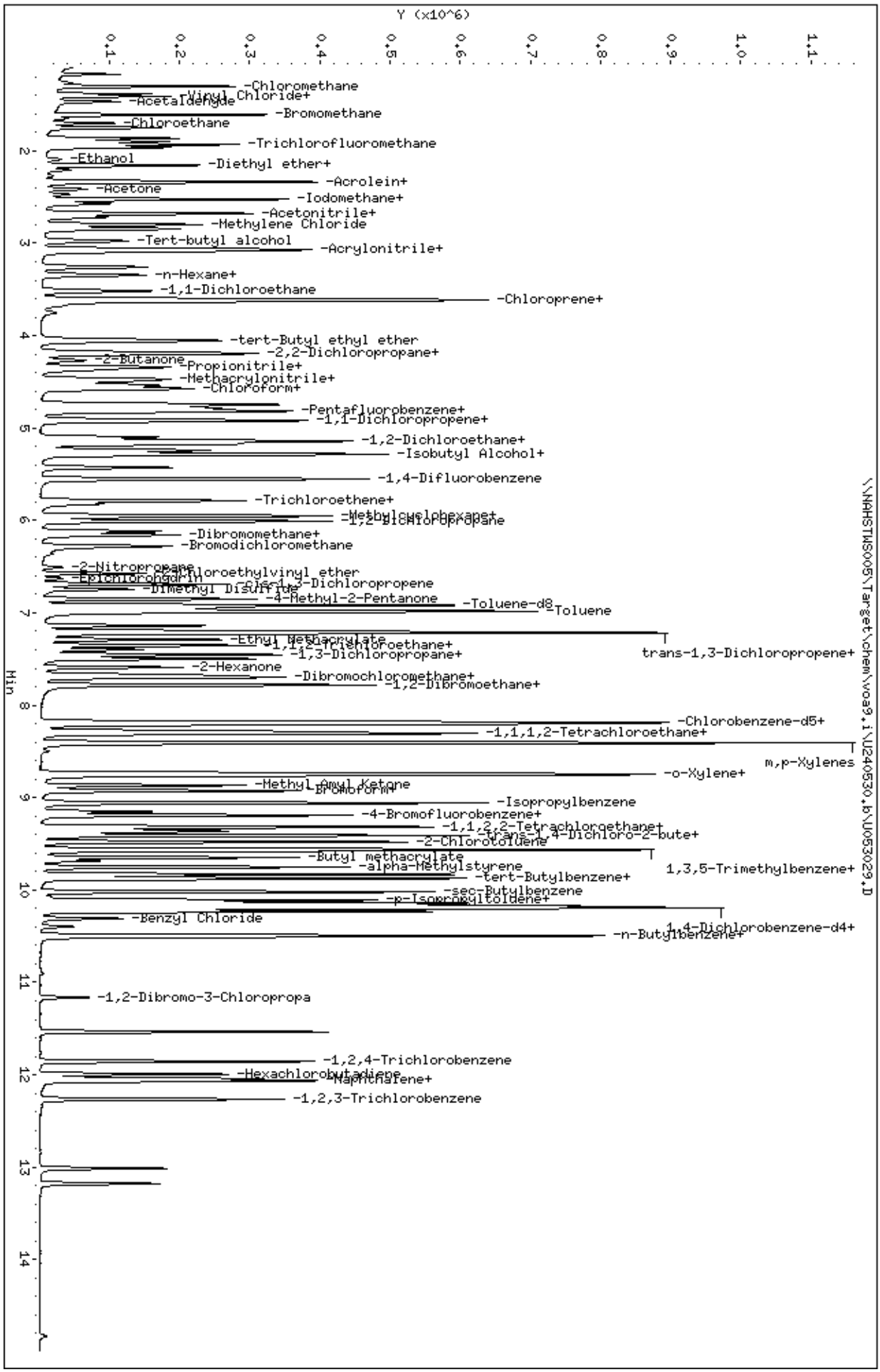
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)	
78	tert-Butylbenzene	119	9.835	9.835	(0.967)	264337	50.0000	50.07	
79	1,2,4-Trimethylbenzene	105	9.876	9.876	(0.971)	301831	50.0000	45.83	
81	sec-Butylbenzene	105	10.019	10.019	(0.985)	358320	50.0000	50.01	
82	p-Isopropyltoluene	119	10.142	10.142	(0.997)	311370	50.0000	49.87	
83	1,3-Dichlorobenzene	146	10.112	10.112	(0.994)	182608	50.0000	45.07	
84	1,4-Dichlorobenzene	146	10.187	10.187	(1.002)	193347	50.0000	43.09	
86	Benzyl Chloride	91	10.307	10.307	(1.260)	76102	50.0000	29.89	
87	n-Butylbenzene	91	10.491	10.491	(1.032)	264709	50.0000	47.12	
88	1,2-Dichlorobenzene	146	10.502	10.502	(1.033)	182587	50.0000	43.50	
89	1,2-Dibromo-3-Chloropropane	155	11.166	11.166	(1.098)	13626	50.0000	37.67	
90	1,2,4-Trichlorobenzene	180	11.855	11.855	(1.166)	114919	50.0000	43.45	
91	Hexachlorobutadiene	225	11.994	11.994	(1.180)	48225	50.0000	45.44	
92	Naphthalene	128	12.065	12.065	(1.187)	271149	50.0000	42.37	
93	1,2,3-Trichlorobenzene	180	12.268	12.268	(1.206)	105904	50.0000	42.98	
146	Methyl acetate	43	2.716	2.716	(0.564)	93579	50.0000	48.41	
138	Freon TF	101	2.337	2.337	(0.485)	66371	50.0000	48.88	
141	Cyclohexane	56	4.785	4.785	(0.994)	115765	50.0000	49.80	
142	Tetrahydrofuran	42	4.542	4.542	(0.943)	33584	100.000	96.08	
147	Methylcyclohexane	55	5.947	5.947	(1.071)	210174	50.0000	48.25	
135	1,4-Dioxane	88	6.165	6.165	(1.280)	18612	1000.00	745.66	
132	n-Butanol	56	5.824	5.824	(1.209)	44722	1000.00	679.59	
136	n-Hexane	57	3.346	3.346	(0.695)	74459	50.0000	45.87	
139	Diethyl ether	59	2.150	2.150	(0.447)	64715	50.0000	50.45	
148	Tert-butyl alcohol	59	2.975	2.975	(0.618)	138525	1000.00	825.86	
149	Isopropyl alcohol	45	2.570	2.570	(0.534)	106854	1000.00	813.49	
152	Amyl alcohol	42	7.398	7.398	(0.904)	53596	1000.00	759.94	
156	Diisopropyl ether	45	3.623	3.623	(0.752)	293668	50.0000	47.08	
162	Butyl acrylate	55	8.729	8.729	(1.067)	153221	50.0000	44.28	
187	n-Amyl acetate	43	8.928	8.928	(1.091)	151751	50.0000	43.16	
164	Dicyclopentadiene	66	10.198	10.198	(1.003)	429823	50.0000	48.03	
166	1,2,3-Trimethylbenzene	105	10.232	10.232	(1.006)	288695	50.0000	47.50	
167	Ethanol	45	2.094	2.094	(0.435)	21213	1000.00	859.18	
172	tert-Butyl formate	59	5.243	5.243	(1.089)	137120	100.000	71.06	
173	3,3-Dimethyl-1-butanol	57	7.781	7.781	(0.951)	157469	1000.00	698.77	
174	tert-Amyl methyl ether	73	5.288	5.288	(1.098)	249186	50.0000	43.59	
175	tert-Butyl ethyl ether	59	4.051	4.051	(0.841)	251017	50.0000	44.92	
176	tert-Amyl alcohol	59	5.243	5.243	(1.089)	137120	1000.00	702.43	
151	4-Methyl-2-pentanol	45	7.215	7.215	(1.299)	470105	1000.00	820.10	
140	1,3-Butadiene	54	1.408	1.408	(0.292)	45764	50.0000	50.63	
182	Epichlorohydrin	57	6.630	6.630	(1.194)	21135	200.000	173.00	
M 94	1,2-Dichloroethylene (total)	96				176841	100.000		(a)
145	alpha-Methylstyrene	118	9.752	9.752	(0.959)	122443	50.0000	45.94	
130	Ethyl Acetate	43	4.343	4.343	(0.902)	96022	50.0000	42.67	
131	Methyl Acrylate	55	4.369	4.369	(0.907)	102919	50.0000	45.75	
189	n-Butyl acetate	43	7.702	7.702	(0.941)	143493	50.0000	42.21	
134	Cyclohexanone	55	9.149	9.149	(0.900)	61414	1000.00	625.16	
185	Isoprene	39	2.161	2.161	(0.449)	21104	50.0000	53.99	
188	Isopropyl acetate	43	5.284	5.284	(0.951)	251788	50.0000	43.04	
150	Allyl alcohol	57	3.346	3.346	(0.695)	74459	1000.00	917.53	
194	Acetaldehyde	44	1.468	1.468	(0.305)	134572	200.000	324.84	
195	Methyl Amyl Ketone	43	8.864	8.864	(1.083)	161171	50.0000	40.86	
200	Dimethyl Disulfide	94	6.746	6.746	(0.825)	49689	50.0000	33.11	

133	Ethyl Acrylate	55	5.947	5.947 (1.235)	210174	50.0000	48.47
163	Butyl methacrylate	41	9.647	9.647 (0.949)	96632	50.0000	47.86

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
159 Propylene oxide	43	2.206	2.206	(0.458)	15679	100.000	111.72
203 2-Ethylhexyl Acrylate	55	12.039	12.039	(1.184)	105100	50.0000	48.41

QC Flag Legend

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



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240530.b\U053029.D
Date : 31-MAY-2024 00:47
Client ID: CCV
Sample Info: CCV;CCV;2;;CCV-END
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9.i
Operator: TS
Column diameter: 0.18

\\NAHSTWS005\Target\chem\voa9.i\U240530.b\U053029.D

Data File : \\NAHSTWS005\Target\chem\voa9.i\U240530.b\U053029.D
Inj Date : 31-MAY-2024 00:47
InstruID : VOA9.i
LabSampID : CCV

NO MANUAL INTEGRATIONS

HS24051490-GCSEMI-RSK-175

ALS WO# HS24051490

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Form 1

Organic Analysis Data Sheet

Dissolved Gasses by Dissolved Gases by RSK-175

Workorder

HS24051490

Client

Bhate Environmental Associates, Inc.

Project

LHAAP-50

06/24/2024

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-50

Workorder HS24051490

Dissolved Gasses by Dissolved Gases by RSK-175

50WW12_052224	Collected	Received	Matrix	Basis
HS24051490-04	05/22/24 09:25	05/24/24 09:50	Water	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
Ethane	mg/L	0.00100	U	0.00014	0.00100	0.00100	1	06/03/24 15:04	FID-4_468476	020.D
Ethene	mg/L	0.00100	U	0.00023	0.00100	0.00100	1	06/03/24 15:04	FID-4_468476	020.D
Methane	mg/L	4.32		0.0214	0.100	0.100	200	06/04/24 09:36	FID-4_468476	06.D

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP-50

Workorder HS24051490

Dissolved Gasses by Dissolved Gases by RSK-175

50WW12_052224_a	Collected	Received	Matrix	Basis
HS24051490-05	05/22/24 09:25	05/24/24 09:50	Water	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
Ethane	mg/L	0.00100	U	0.00014	0.00100	0.00100	1	05/31/24 11:40	FID-4_468189	015.D
Ethene	mg/L	0.00100	U	0.00023	0.00100	0.00100	1	05/31/24 11:40	FID-4_468189	015.D
Methane	mg/L	1.44		0.0214	0.100	0.100	200	05/31/24 11:55	FID-4_468189	016.D

Form 1 - Organic Analysis Data Sheet

Client	Bhate Environmental Associates, Inc.	Workorder	
Project	LHAAP-50	HS24051490	

Dissolved Gasses by Dissolved Gases by RSK-175

50WW06_052224	Collected	Received	Matrix	Basis
HS24051490-06	05/22/24 10:20	05/24/24 09:50	Water	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
Ethane	mg/L	0.00100	U	0.00014	0.00100	0.00100	1	05/31/24 10:01	FID-4_468189	006.D
Ethene	mg/L	0.00100	U	0.00023	0.00100	0.00100	1	05/31/24 10:01	FID-4_468189	006.D
Methane	mg/L	0.00208		0.00010	0.000500	0.000500	1	05/31/24 10:01	FID-4_468189	006.D

Form 1 - Organic Analysis Data Sheet

Client	Bhate Environmental Associates, Inc.	Workorder	
Project	LHAAP-50	HS24051490	

Dissolved Gasses by Dissolved Gases by RSK-175

50WW06_052224_a	Collected	Received	Matrix	Basis
HS24051490-07	05/22/24 10:20	05/24/24 09:50	Water	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
Ethane	mg/L	0.00100	U	0.00014	0.00100	0.00100	1	05/31/24 11:32	FID-4_468189	014.D
Ethene	mg/L	0.00100	U	0.00023	0.00100	0.00100	1	05/31/24 11:32	FID-4_468189	014.D
Methane	mg/L	0.00186		0.00010	0.000500	0.000500	1	05/31/24 11:32	FID-4_468189	014.D

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Form 3B

Laboratory Control Sample Recovery

Dissolved Gasses by Dissolved Gases by RSK-175

Workorder

HS24051490

Client

Bhate Environmental Associates, Inc.

Project

LHAAP-50

06/24/2024

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-50

Workorder **HS24051490**

SAMPLENUM LCS-240531

Dissolved Gasses by Dissolved Gases by RSK-175

FID-4_468189			LCS-240531			LCSD-240531					
Spike Matrix Aqueous	Result Units mg/L		Run Date 05/31/24 Run Time 09:30			Run Date 05/31/24 Run Time 09:38					
Analyte	%Recovery Limits	Spike Added	LCS Result	%R	Q	LCSD Result	%R	Q	RPD Limit	RPD	Q
Ethane	75-125	0.01804	0.0153	85		0.0148	82		30	3.64	
Ethene	75-125	0.0168	0.0146	87		0.0139	83		30	4.68	
Methane	75-125	0.009647	0.00908	94		0.00869	90		30	4.4	

Form 3B - Laboratory Control Sample Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP-50

Workorder HS24051490

Dissolved Gasses by Dissolved Gases by RSK-175

SAMPLENUM LCS-240603

FID-4_468476			LCS-240603			LCSD-240603					
Spike Matrix Aqueous	Result Units mg/L		Run Date 06/03/24 Run Time 08:35			Run Date 06/03/24 Run Time 08:53					
Analyte	%Recovery Limits	Spike Added	LCS Result	%R	Q	LCSD Result	%R	Q	RPD Limit	RPD	Q
Ethane	75-125	0.01804	0.0156	87		0.0156	86		30	0.555	
Ethene	75-125	0.0168	0.0137	82		0.0138	82		30	0.332	
Methane	75-125	0.009647	0.00844	88		0.00862	89		30	2.15	

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Form 4

Method Blank Summary

Dissolved Gasses by Dissolved Gases by RSK-175

Workorder

HS24051490

Client

Bhate Environmental Associates, Inc.

Project

LHAAP-50

06/24/2024

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-50

Workorder HS24051490

Dissolved Gasses by Dissolved Gases by RSK-175

METHOD BLANK	Matrix	Analysis Date	Analysis Batch	Inst ID
MBLK-240531	Aqueous	05/31/24 09:17	R468189	FID4

Client Sample ID	Lab Sample ID	Type	Analysis Date	Analysis Batch	Inst ID	FileID
LCS-240531	LCS-240531	LCS	05/31/24 09:30	R468189	FID4	003.D
LCSD-240531	LCSD-240531	LCSD	05/31/24 09:38	R468189	FID4	004.D
50WW06_052224	HS24051490-06	SAMP	05/31/24 10:01	R468189	FID4	006.D
50WW06_052224_a	HS24051490-07	SAMP	05/31/24 11:32	R468189	FID4	014.D
50WW12_052224_a	HS24051490-05	SAMP	05/31/24 11:40	R468189	FID4	015.D
50WW12_052224_a	HS24051490-05	SAMP	05/31/24 11:55	R468189	FID4	016.D

Form 4 - Method Blank Summary

Client Bhate Environmental Associates, Inc.

Project LHAAP-50

Workorder HS24051490

Dissolved Gasses by Dissolved Gases by RSK-175

METHOD BLANK	Matrix	Analysis Date	Analysis Batch	Inst ID
MBLK-240603	Aqueous	06/03/24 08:17	R468476	FID4

Client Sample ID	Lab Sample ID	Type	Analysis Date	Analysis Batch	Inst ID	FileID
LCS-240603	LCS-240603	LCS	06/03/24 08:35	R468476	FID4	003.D
LCSD-240603	LCSD-240603	LCSD	06/03/24 08:53	R468476	FID4	004.D
50WW12_052224	HS24051490-04	SAMP	06/03/24 15:04	R468476	FID4	020.D
50WW12_052224	HS24051490-04	SAMP	06/04/24 09:36	R468476	FID4	06.D

ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 24-JAN-2017 09:06
End Cal Date : 01-MAR-2024 15:48
Quant Method : ESTD
Origin : Disabled
Target Version : 4.14
Integrator : Falcon
Method file : \\NAHSTWS005\Target\chem\FID-4.i\240301.b\RSKNI2.m
Last Edit : 02-Mar-2024 07:11 Samy.Mata
Curve Type : Average

Calibration File Names:
Level 1: \\NAHSTWS005\Target\chem\FID-4.i\240301ICAL.b\009.D
Level 2: \\NAHSTWS005\Target\chem\FID-4.i\240301ICAL.b\003.D
Level 3: \\NAHSTWS005\Target\chem\FID-4.i\240301ICAL.b\004.D
Level 4: \\NAHSTWS005\Target\chem\FID-4.i\240301ICAL.b\005.D
Level 5: \\NAHSTWS005\Target\chem\FID-4.i\240301ICAL.b\006.D
Level 6: \\NAHSTWS005\Target\chem\FID-4.i\240301ICAL.b\007.D
Level 7: \\NAHSTWS005\Target\chem\FID-4.i\240301ICAL.b\008.D

Compound	10.000 Level 1	25.000 Level 2	50.000 Level 3	100.000 Level 4	250.000 Level 5	500.000 Level 6	1000.000 Level 7	RRF	% RSD
1 Methane	1275	1233	1158	1053	1089	1052	1015	1125	8.811
2 Ethene	596	725	776	798	843	513	811	723	16.997
3 Ethane	712	946	1023	1035	1159	1061	1092	1004	14.380
4 Propane	642	946	932	951	1024	999	987	926	13.969
5 N-Butane	563	912	953	953	1015	990	988	911	17.229
6 Pentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
7 Hexane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

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Form 6I

Initial Calibration Verification (ICV)

Dissolved Gasses by Dissolved Gases by RSK-175

Workorder

HS24051490

Client

Bhate Environmental Associates, Inc.

Project

LHAAP-50

06/24/2024

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

Form 6I Initial Calibration Verification (ICV)

Client Bhate Environmental Associates, Inc.
Project LHAAP-50

Workorder HS24051490

RunID 010.D

Dissolved Gasses by Dissolved Gases by RSK-175

Sample Matrix LIQUID
Lab Smp Id RSK-ICV
Data Type GC DATA
File ID 010.D

Fraction GASES
Client Smp ID RSK-ICV
SampleType METHSPIKE
Inj Date 01-MAR-2024 1700

Compound	Conc Added	Conc Recovered	% Recovered	Limits	Q
Methane	9.62	8.09	84.1	80-120	
Ethene	16.8	16.5	98.0	80-120	
Ethane	18.0	17.0	94.4	80-120	
Propane	26.5	24.6	92.9	80-120	
N-Butane	34.9	32.9	94.4	80-120	
Pentane	43.3	0.000		80-120	*
Hexane	51.7	0.000		80-120	*

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Form 7

Continuing Calibration Verification (CCV)

Dissolved Gasses by Dissolved Gases by RSK-175

Workorder

HS24051490

Client

Bhate Environmental Associates, Inc.

Project

LHAAP-50

06/24/2024

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

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP-50

Workorder HS24051490

RunID 001.D

Dissolved Gasses by Dissolved Gases by RSK-175

Instrument ID FID-4.i
Lab File ID 001.D
Analysis Type WATER
Lab Sample ID RSK-CCV

Injection Date 03-JUN-2024 0754
ICAL Date(s) 24-JAN-2017, 01-MAR-2024
ICAL Times 09:06, 15:48
Quant Type ESTD

Compound	RRF / Conc	RF250	Min RRF	%D / %DRIFT	Max %D / %DRIFT	CURVE TYPE	Q
Methane	1125	1010	0.010	10.3	20.0	Averaged	
Ethene	723	582	0.010	19.5	20.0	Averaged	
Ethane	1004	882	0.010	12.2	20.0	Averaged	
Propane	926	799	0.010	13.7	20.0	Averaged	
N-Butane	911	650	0.010	28.6	20.0	Averaged	*

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP-50

Workorder HS24051490

RunID 01.D

Dissolved Gasses by Dissolved Gases by RSK-175

Instrument ID FID-4.i
Lab File ID 01.D
Analysis Type WATER
Lab Sample ID RSK-CCV

Injection Date 04-JUN-2024 0839
ICAL Date(s) 24-JAN-2017, 01-MAR-2024
ICAL Times 09:06, 15:48
Quant Type ESTD

Compound	RRF / Conc	RF250	CCV RRF250	Min RRF	%D / %DRIFT	Max %D / %DRIFT	CURVE TYPE	Q
Methane	1125	1083	1083	0.010	3.70	20.0	Averaged	
Ethene	723	607	607	0.010	16.1	20.0	Averaged	
Ethane	1004	922	922	0.010	8.20	20.0	Averaged	

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP-50

Workorder HS24051490

RunID 011.D

Dissolved Gasses by Dissolved Gases by RSK-175

Instrument ID FID-4.i
Lab File ID 011.D
Analysis Type WATER
Lab Sample ID RSK-CCV

Injection Date 03-JUN-2024 1207
ICAL Date(s) 24-JAN-2017, 01-MAR-2024
ICAL Times 09:06, 15:48
Quant Type ESTD

Compound	RRF / Conc	RF250	Min RRF	%D / %DRIFT	Max %D / %DRIFT	CURVE TYPE	Q
Methane	1125	1070	0.010	4.92	20.0	Averaged	
Ethene	723	580	0.010	19.8	20.0	Averaged	
Ethane	1004	850	0.010	15.3	20.0	Averaged	
Propane	926	919	0.010	0.791	20.0	Averaged	
N-Butane	911	505	0.010	44.6	20.0	Averaged	*

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP-50

Workorder HS24051490

RunID 017.D

Dissolved Gasses by Dissolved Gases by RSK-175

Instrument ID FID-4.i
Lab File ID 017.D
Analysis Type WATER
Lab Sample ID RSK-CCV

Injection Date 31-MAY-2024 1204
ICAL Date(s) 24-JAN-2017, 01-MAR-2024
ICAL Times 09:06, 15:48
Quant Type ESTD

Compound	RRF / Conc	RF250	CCV RRF250	Min RRF	%D / %DRIFT	Max %D / %DRIFT	CURVE TYPE	Q
Methane	1125	1085	1085	0.010	3.54	20.0	Averaged	
Ethene	723	614	614	0.010	15.1	20.0	Averaged	
Ethane	1004	846	846	0.010	15.7	20.0	Averaged	

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP-50

Workorder HS24051490

RunID 021.D

Dissolved Gasses by Dissolved Gases by RSK-175

Instrument ID FID-4.i
Lab File ID 021.D
Analysis Type WATER
Lab Sample ID RSK-CCV

Injection Date 03-JUN-2024 1519
ICAL Date(s) 24-JAN-2017, 01-MAR-2024
ICAL Times 09:06, 15:48
Quant Type ESTD

Compound	RRF / Conc	RF250	Min RRF	%D / %DRIFT	Max %D / %DRIFT	CURVE TYPE	Q
Methane	1125	1121	0.010	0.336	20.0	Averaged	
Ethene	723	612	0.010	15.3	20.0	Averaged	
Ethane	1004	905	0.010	9.82	20.0	Averaged	
Propane	926	807	0.010	12.9	20.0	Averaged	
N-Butane	911	607	0.010	33.3	20.0	Averaged	*

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP-50

Workorder HS24051490

RunID 11.D

Dissolved Gasses by Dissolved Gases by RSK-175

Instrument ID FID-4.i
Lab File ID 11.D
Analysis Type WATER
Lab Sample ID RSK-CCV

Injection Date 04-JUN-2024 1023
ICAL Date(s) 24-JAN-2017, 01-MAR-2024
ICAL Times 09:06, 15:48
Quant Type ESTD

Compound	RRF / Conc	RF250	CCV RRF250	Min RRF	%D / %DRIFT	Max %D / %DRIFT	CURVE TYPE	Q
Methane	1125	1029	1029	0.010	8.56	20.0	Averaged	
Ethene	723	615	615	0.010	15.0	20.0	Averaged	
Ethane	1004	914	914	0.010	8.92	20.0	Averaged	

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Analysis Run Log

Dissolved Gasses by Dissolved Gases by RSK-175

Workorder

HS24051490

Client

Bhate Environmental Associates, Inc.

Project

LHAAP-50

06/24/2024

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 Bhate Environmental Associates, Inc.

Project LHAAP-50

Workorder **HS24051490**

RUNID FID-4-461015

Dissolved Gasses by Dissolved Gases by RSK-175

Run ID FID-4_461015 **Start Date** 03/01/24 **EndDate** 03/01/24

Inj. Time	Client Sample ID	Type	Lab Sample ID	File ID	Analysis Date	DF
09:20	RSK-ICAL L2	ICAL2	RSK-ICAL L2	003.D	03/01/24	1
09:42	RSK-ICAL L3	ICAL3	RSK-ICAL L3	004.D	03/01/24	1
10:01	RSK-ICAL L4	ICAL4	RSK-ICAL L4	005.D	03/01/24	1
10:22	RSK-ICAL L5	ICAL5	RSK-ICAL L5	006.D	03/01/24	1
10:37	RSK-ICAL L6	ICAL6	RSK-ICAL L6	007.D	03/01/24	1
11:04	RSK-ICAL L7	ICAL7	RSK-ICAL L7	008.D	03/01/24	1
15:48	RSK-ICAL L1	ICAL1	RSK-ICAL L1	009.D	03/01/24	1
17:00	RSK-ICV	ICV	RSK-ICV	010.D	03/01/24	1

Form 13 - Analysis Run Log

Client Bhate Environmental Associates, Inc.

Project LHAAP-50

Workorder **HS24051490**

Dissolved Gasses by Dissolved Gases by RSK-175

RUNID FID-4-468189

Run ID FID-4_468189 **Start Date** 05/31/24 **EndDate** 05/31/24

Inj. Time	Client Sample ID	Type	Lab Sample ID	File ID	Analysis Date	DF
09:09	RSK-CCV	CCV	RSK-CCV	001.D	05/31/24	1
09:17	MBLK-240531	MBLK	MBLK-240531	002.D	05/31/24	1
09:30	LCS-240531	LCS	LCS-240531	003.D	05/31/24	1
09:38	LCSD-240531	LCSD	LCSD-240531	004.D	05/31/24	1
10:01	HS24051490-06	SAMP	50WW06_052224	006.D	05/31/24	1
10:11	HS24051300-05	SAMP	ZZZZZZZZZZ	007.D	05/31/24	1
10:37	HS24051300-06	SAMP	ZZZZZZZZZZ	008.D	05/31/24	1
10:45	HS24051300-07	SAMP	ZZZZZZZZZZ	009.D	05/31/24	1
10:54	HS24051292-08	SAMP	ZZZZZZZZZZ	010.D	05/31/24	1
11:03	RSK-CCV	CCV	RSK-CCV	011.D	05/31/24	1
11:23	HS24051300-07	SAMP	ZZZZZZZZZZ	013.D	05/31/24	100
11:32	HS24051490-07	SAMP	50WW06_052224_a	014.D	05/31/24	1
11:40	HS24051490-05	SAMP	50WW12_052224_a	015.D	05/31/24	1
11:55	HS24051490-05	SAMP	50WW12_052224_a	016.D	05/31/24	200
12:04	RSK-CCV	CCV	RSK-CCV	017.D	05/31/24	1

Form 13 - Analysis Run Log

Client Bhate Environmental Associates, Inc.

Project LHAAP-50

Workorder **HS24051490**

Dissolved Gasses by Dissolved Gases by RSK-175

RUNID FID-4-468476

Run ID FID-4_468476 **Start Date** 06/03/24 **EndDate** 06/04/24

Inj. Time	Client Sample ID	Type	Lab Sample ID	File ID	Analysis Date	DF
07:54	RSK-CCV	CCV	RSK-CCV	001.D	06/03/24	1
08:17	MBLK-240603	MBLK	MBLK-240603	002.D	06/03/24	1
08:35	LCS-240603	LCS	LCS-240603	003.D	06/03/24	1
08:53	LCSD-240603	LCSD	LCSD-240603	004.D	06/03/24	1
08:39	RSK-CCV	CCV	RSK-CCV	01.D	06/04/24	1
12:07	RSK-CCV	CCV	RSK-CCV	011.D	06/03/24	1
14:50	HS24051514-03	SAMP	ZZZZZZZZZZ	019.D	06/03/24	1
15:04	HS24051490-04	SAMP	50WW12_052224	020.D	06/03/24	1
15:19	RSK-CCV	CCV	RSK-CCV	021.D	06/03/24	1
09:24	HS24051514-03	SAMP	ZZZZZZZZZZ	05.D	06/04/24	10
09:36	HS24051490-04	SAMP	50WW12_052224	06.D	06/04/24	200
10:23	RSK-CCV	CCV	RSK-CCV	11.D	06/04/24	1

right solutions.
right partner.

RawData

<textMethods>

Workorder

HS24051490

Client

Bhate Environmental Associates, Inc.

Project

LHAAP-50

06/24/2024

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\240301.b\003.D Page 1
Report Date: 11-Mar-2024 18:09

ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\NAHSTWS005\Target\chem\FID-4.i\240301.b\003.D
Lab Smp Id: RSK-ICAL L2 Client Smp ID: RSK-ICAL L2
Inj Date : 01-MAR-2024 09:20
Operator : PL Inst ID: FID-4.i
Smp Info : RSK-ICAL L2;RSK-ICAL L2;2;4
Misc Info : ;1;0;1
Comment :
Method : \\NAHSTWS005\Target\chem\FID-4.i\240301.b\RSKNI2.m
Meth Date : 11-Mar-2024 18:06 FID-4.i Quant Type: ESTD
Cal Date : 01-MAR-2024 15:48 Cal File: 009.D
Als bottle: 3 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: stdNI2.sub
Target Version: 4.14

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

					AMOUNTS	
					CAL-AMT	ON-COL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(ug/L)	(ug/L)
1 Methane	0.446	0.440	0.006	1190	0.96500	1.057(M)
2 Ethene	0.646	0.643	0.003	1221	1.68500	1.688
3 Ethane	0.710	0.710	0.000	1707	1.80400	1.700(M)
4 Propane	2.030	2.016	0.014	2502	2.64600	2.702
5 N-Butane	4.910	4.886	0.024	3190	3.49600	3.503

QC Flag Legend

M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\FID-4.i\240301.b\003.D

Date : 01-MAR-2024 09:20

Client ID: RSK-ICAL L2

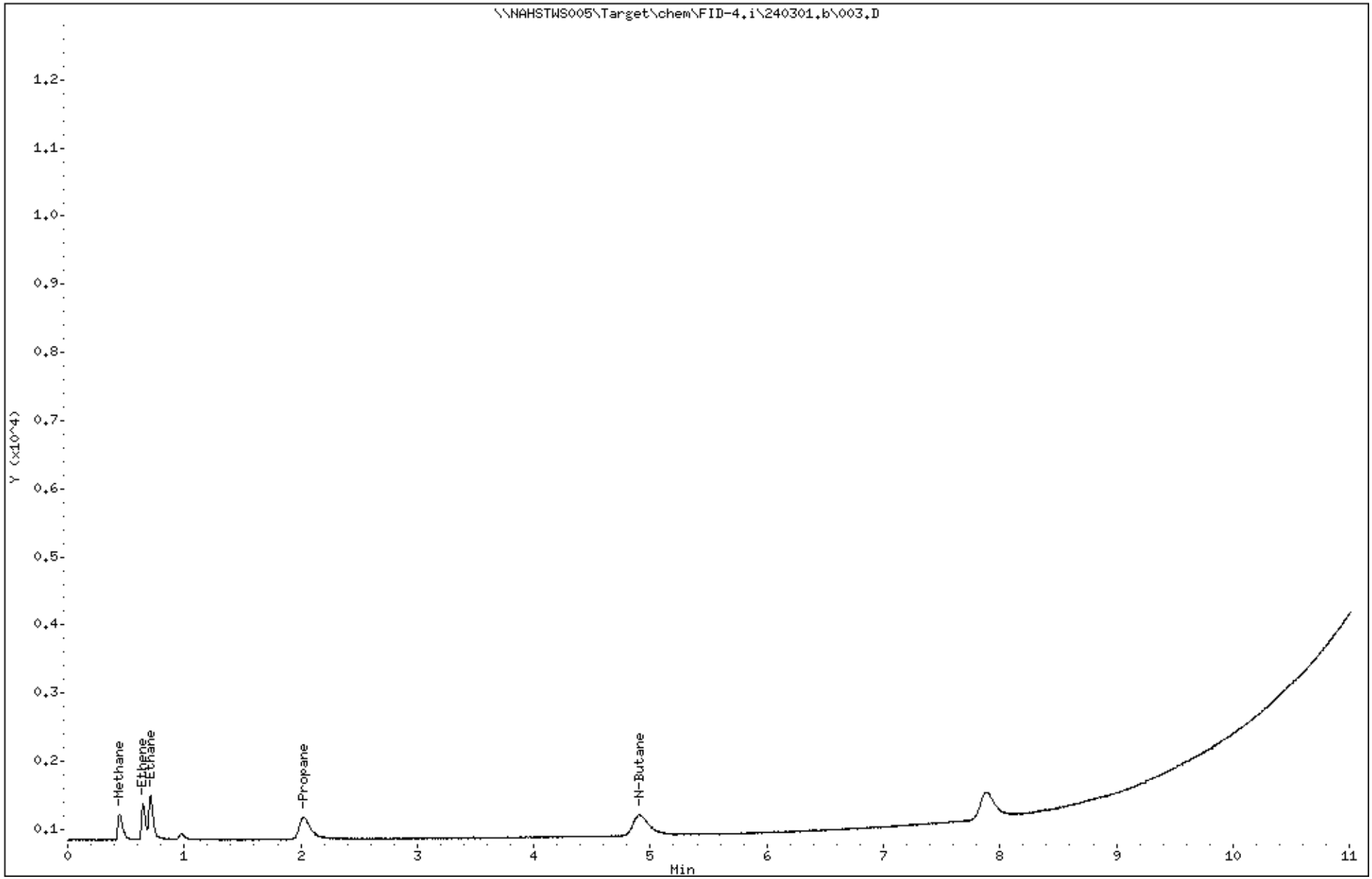
Instrument: FID-4.i

Sample Info: RSK-ICAL L2;RSK-ICAL L2;2;4

Operator: PL

Column phase: Rtx-PLOT

Column diameter: 0.53



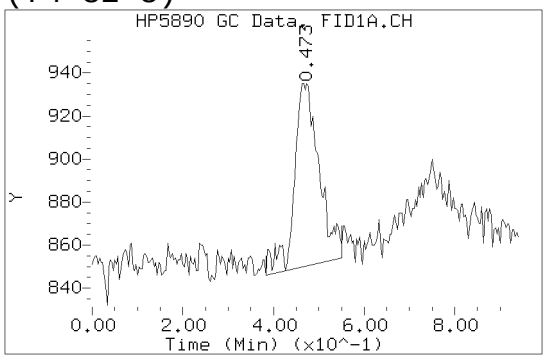
Data File : \\NAHSTWS005\Target\chem\FID-4.i\240301.b\003.D
Inj Date : 01-MAR-2024 09:20
InstruID : FID-4.i
LabSampID : RSK-ICAL L2

Methane (74-82-8)

Reason Code: MIP

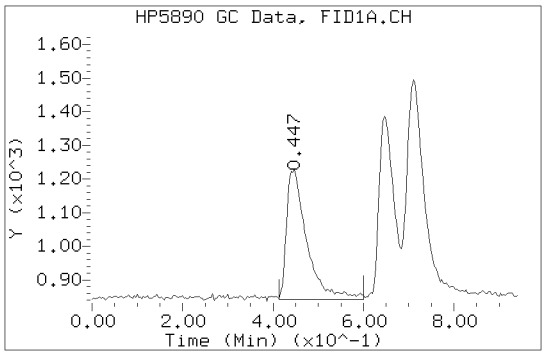
BEFORE

MASS
100
AREA
0
HEIGHT
0
01-Mar-2024
09:14
ALSHS
Server



AFTER

MASS
100
AREA
1190
HEIGHT
385
11-Mar-2024
18:09
ALSHS
Ser

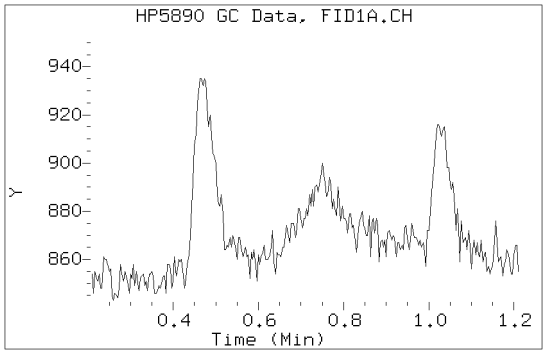


Ethane (74-84-0)

Reason Code: MIP

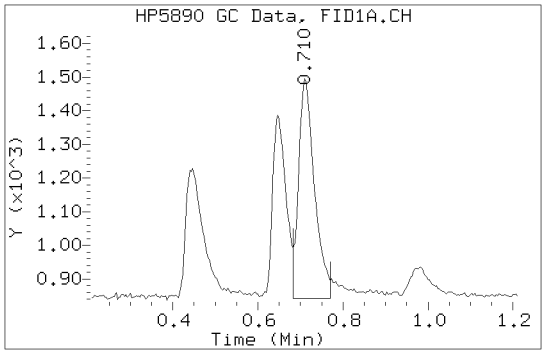
BEFORE

MASS
100
AREA
0
HEIGHT
0
01-Mar-2024
09:14
ALSHS
Server



AFTER

MASS
44
AREA
1707
HEIGHT
652
11-Mar-2024
18:09
ALSHS
Ser



Data File: \\NAHSTWS005\Target\chem\FID-4.i\240301.b\004.D Page 1
Report Date: 11-Mar-2024 18:12

ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\NAHSTWS005\Target\chem\FID-4.i\240301.b\004.D
Lab Smp Id: RSK-ICAL L3 Client Smp ID: RSK-ICAL L3
Inj Date : 01-MAR-2024 09:42
Operator : PL Inst ID: FID-4.i
Smp Info : RSK-ICAL L3;RSK-ICAL L3;2;4
Misc Info : ;1;0;1
Comment :
Method : \\NAHSTWS005\Target\chem\FID-4.i\240301.b\RSKNI2.m
Meth Date : 11-Mar-2024 18:06 FID-4.i Quant Type: ESTD
Cal Date : 01-MAR-2024 09:20 Cal File: 003.D
Als bottle: 4 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: stdNI2.sub
Target Version: 4.14

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

					AMOUNTS	
					CAL-AMT	ON-COL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(ug/L)	(ug/L)
1 Methane	0.443	0.440	0.003	2234	1.92900	1.985(M)
2 Ethene	0.650	0.643	0.007	2615	3.37000	3.615(M)
3 Ethane	0.713	0.710	0.003	3691	3.60900	3.676(M)
4 Propane	2.023	2.016	0.007	4935	5.29300	5.329
5 N-Butane	4.903	4.886	0.017	6664	6.99100	7.317

QC Flag Legend

M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\FID-4.i\240301.b\004.D

Date : 01-MAR-2024 09:42

Client ID: RSK-ICAL L3

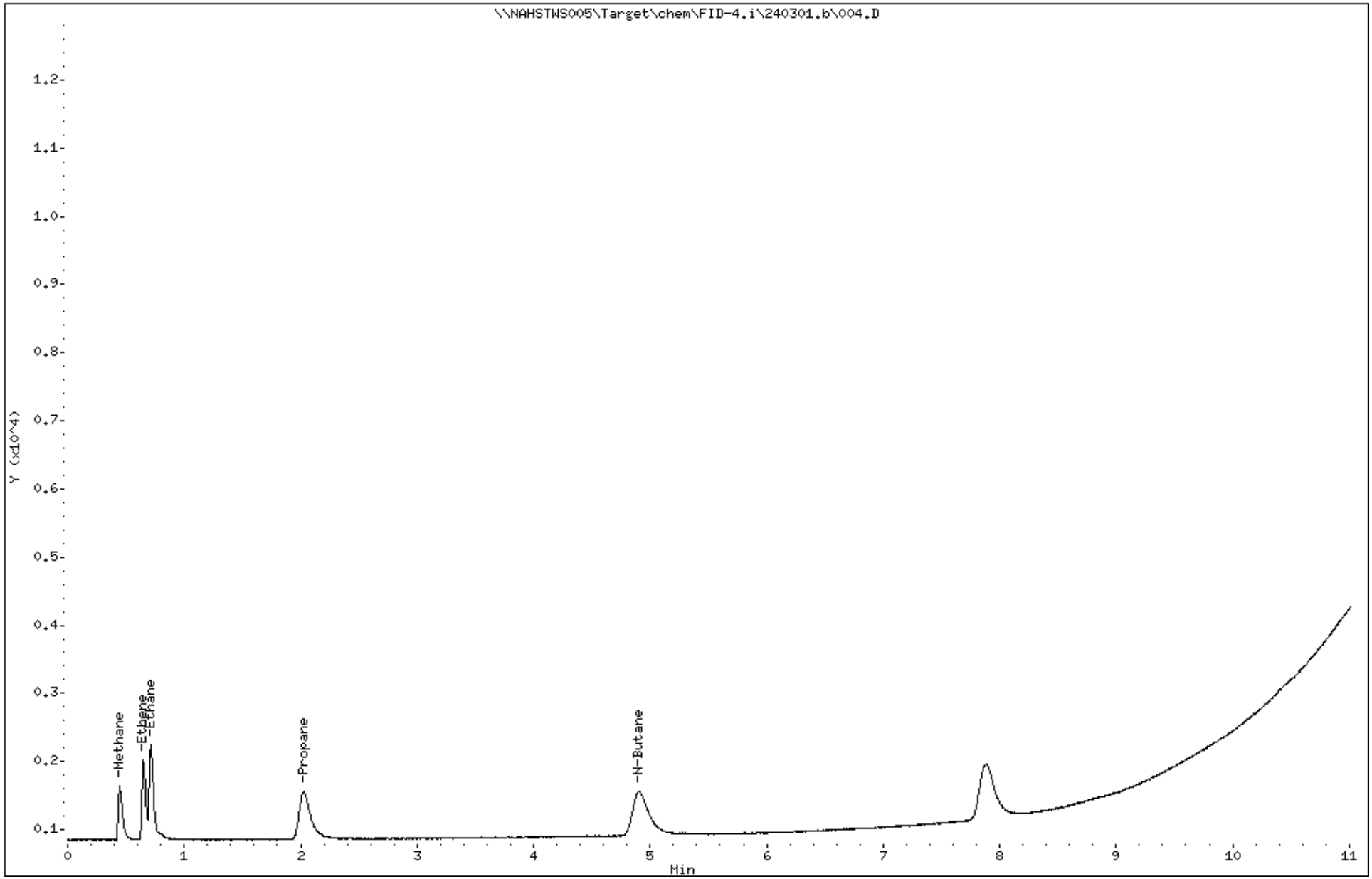
Instrument: FID-4.i

Sample Info: RSK-ICAL L3;RSK-ICAL L3;2;4

Operator: PL

Column phase: Rtx-PLOT

Column diameter: 0.53



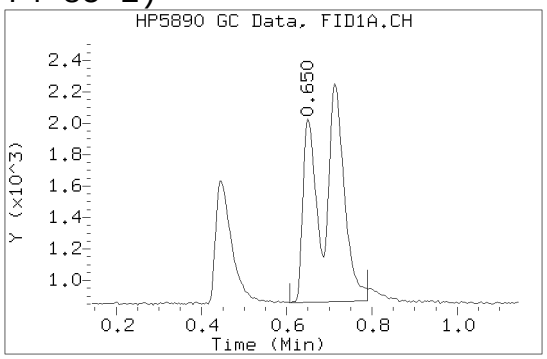
Data File : \\NAHSTWS005\Target\chem\FID-4.i\240301.b\004.D
Inj Date : 01-MAR-2024 09:42
InstruID : FID-4.i
LabSampID : RSK-ICAL L3

Ethene (74-85-1)

Reason Code: MIA

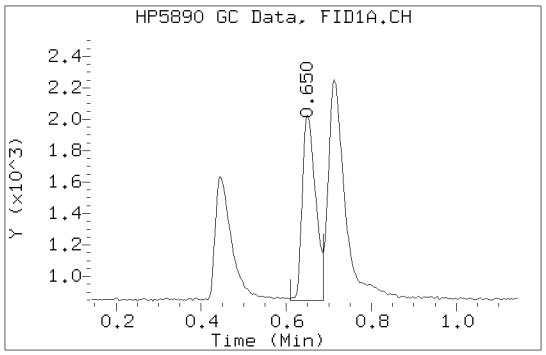
BEFORE

MASS
100
AREA
6051
HEIGHT
1172
11-Mar-2024
18:03
linh
pham



AFTER

MASS
100
AREA
2615
HEIGHT
1185
11-Mar-2024
18:12
linh
pham

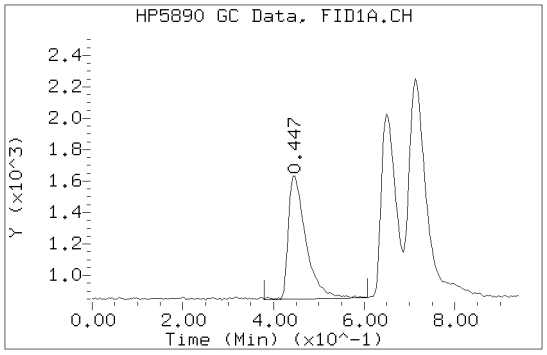


Methane (74-82-8)

Reason Code: MBA

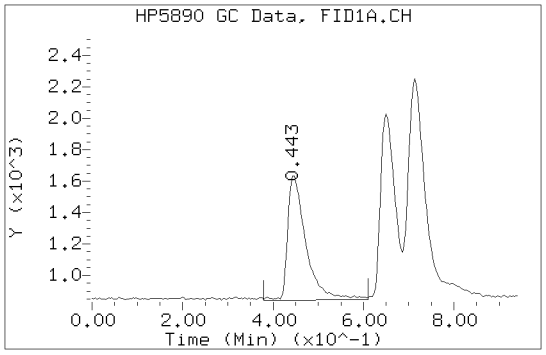
BEFORE

MASS
100
AREA
2128
HEIGHT
786
11-Mar-2024
18:03
linh
pham



AFTER

MASS
100
AREA
2234
HEIGHT
791
11-Mar-2024
18:12
linh
pham

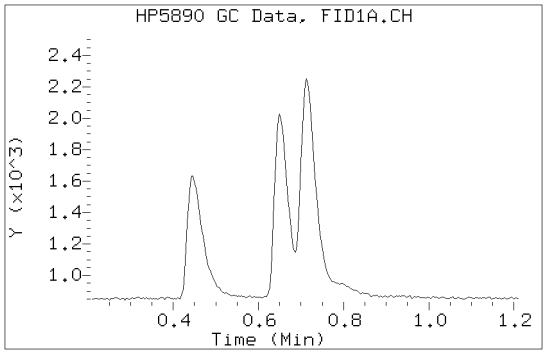


Ethane (74-84-0)

Reason Code: MUP

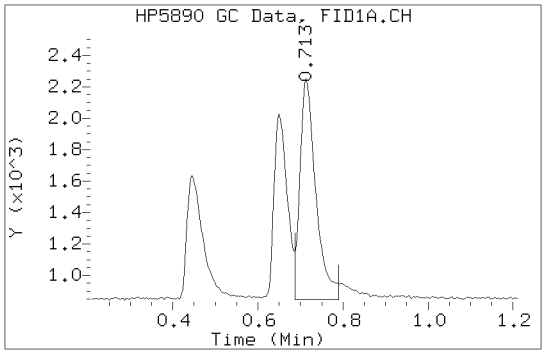
BEFORE

MASS
44
AREA
0
HEIGHT
0
11-Mar-2024
18:03
linh
pham



AFTER

MASS
44
AREA
3691
HEIGHT
1406
11-Mar-2024
18:12
linh
pham



Data File: \\NAHSTWS005\Target\chem\FID-4.i\240301.b\005.D Page 1
Report Date: 11-Mar-2024 18:11

ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\NAHSTWS005\Target\chem\FID-4.i\240301.b\005.D
Lab Smp Id: RSK-ICAL L4 Client Smp ID: RSK-ICAL L4
Inj Date : 01-MAR-2024 10:01
Operator : PL Inst ID: FID-4.i
Smp Info : RSK-ICAL L4;RSK-ICAL L4;2;4
Misc Info : ;1;0;1
Comment :
Method : \\NAHSTWS005\Target\chem\FID-4.i\240301.b\RSKNI2.m
Meth Date : 11-Mar-2024 18:06 FID-4.i Quant Type: ESTD
Cal Date : 01-MAR-2024 09:42 Cal File: 004.D
Als bottle: 5 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: stdNI2.sub
Target Version: 4.14

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

					AMOUNTS	
					CAL-AMT	ON-COL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(ug/L)	(ug/L)
1 Methane	0.443	0.440	0.003	4065	3.85900	3.613
2 Ethene	0.650	0.643	0.007	5379	6.74000	7.437(M)
3 Ethane	0.713	0.710	0.003	7470	7.21700	7.440(M)
4 Propane	2.023	2.016	0.007	10070	10.5850	10.875
5 N-Butane	4.906	4.886	0.020	13319	13.9820	14.625

QC Flag Legend

M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\FID-4.i\240301.b\005.D

Date : 01-MAR-2024 10:01

Client ID: RSK-ICAL L4

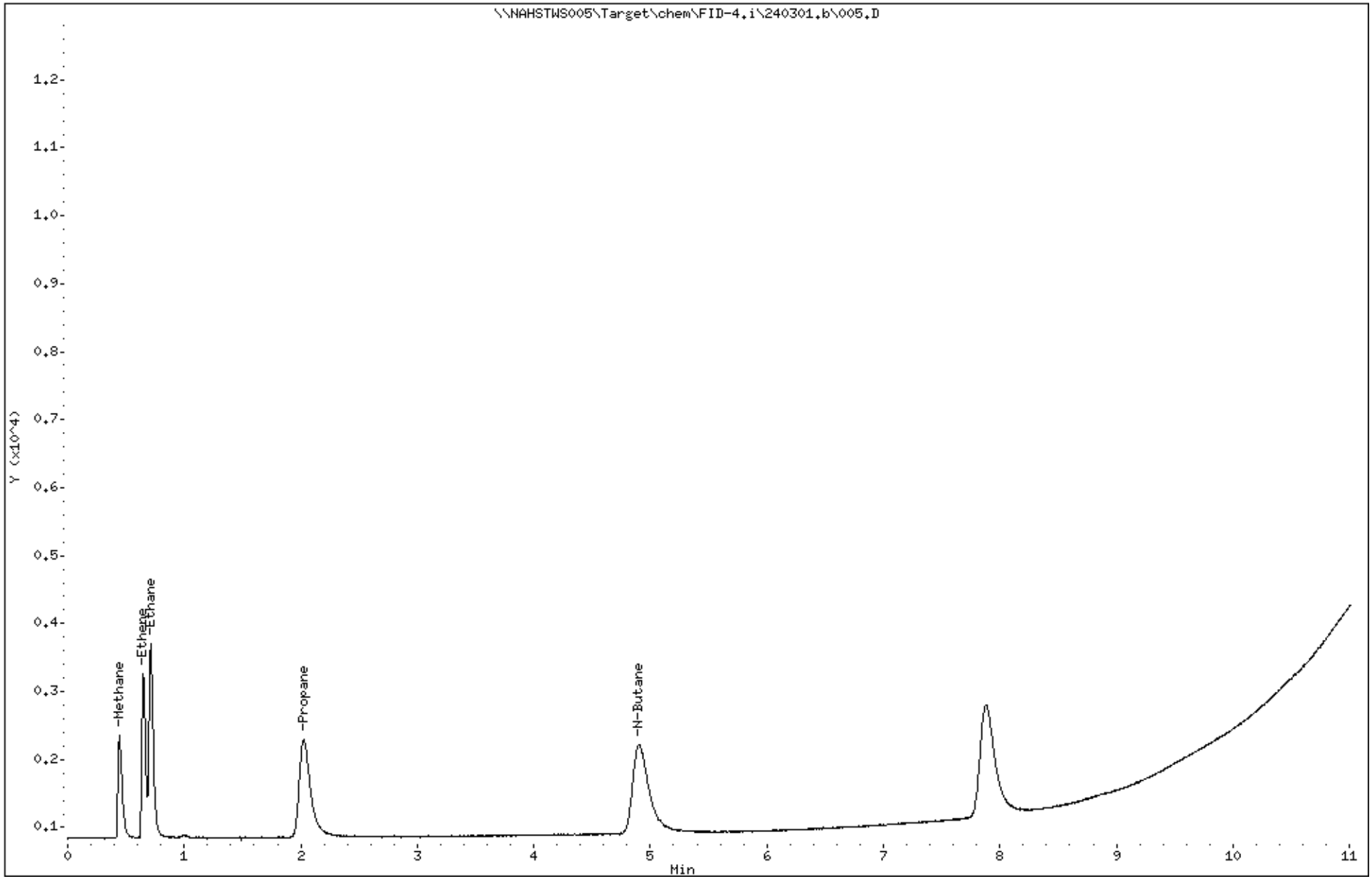
Instrument: FID-4.i

Sample Info: RSK-ICAL L4;RSK-ICAL L4;2;4

Operator: PL

Column phase: Rtx-PLOT

Column diameter: 0.53



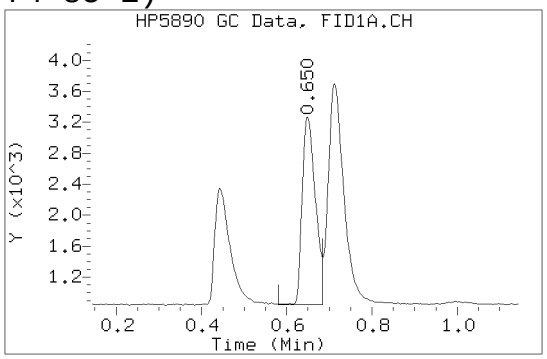
Data File : \\NAHSTWS005\Target\chem\FID-4.i\240301.b\005.D
Inj Date : 01-MAR-2024 10:01
InstruID : FID-4.i
LabSampID : RSK-ICAL L4

Ethene (74-85-1)

Reason Code: MIA

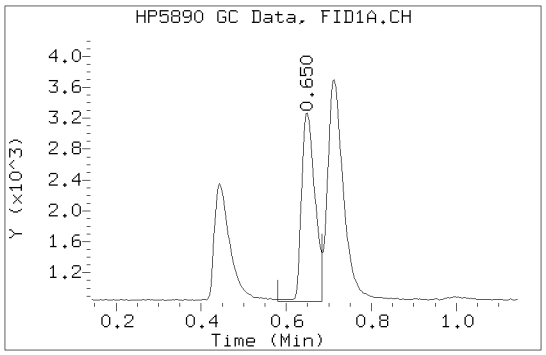
BEFORE

MASS
100
AREA
5231
HEIGHT
2425
11-Mar-2024
18:03
linh
pham



AFTER

MASS
100
AREA
5379
HEIGHT
2438
11-Mar-2024
18:11
linh
pham

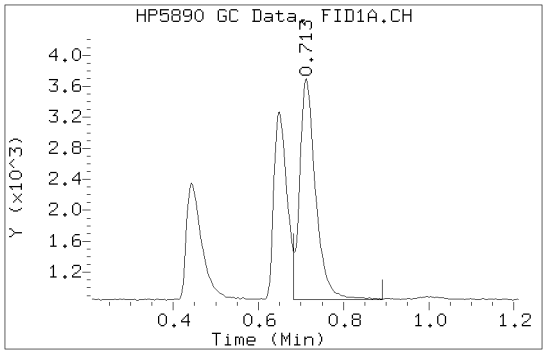


Ethane (74-84-0)

Reason Code: MIA

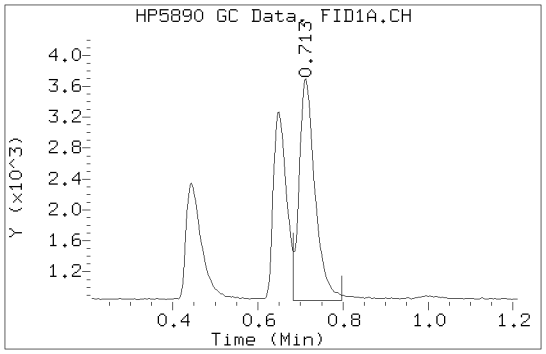
BEFORE

MASS
44
AREA
7464
HEIGHT
2855
11-Mar-2024
18:03
linh
pham



AFTER

MASS
44
AREA
7470
HEIGHT
2867
11-Mar-2024
18:11
linh
pham



Data File: \\NAHSTWS005\Target\chem\FID-4.i\240301.b\006.D Page 1
Report Date: 11-Mar-2024 18:06

ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\NAHSTWS005\Target\chem\FID-4.i\240301.b\006.D
Lab Smp Id: RSK-ICAL L5 Client Smp ID: RSK-ICAL L5
Inj Date : 01-MAR-2024 10:22
Operator : PL Inst ID: FID-4.i
Smp Info : RSK-ICAL L5;RSK-ICAL L5;2;4
Misc Info : ;1;0;1
Comment :
Method : \\NAHSTWS005\Target\chem\FID-4.i\240301.b\RSKNI2.m
Meth Date : 11-Mar-2024 18:06 FID-4.i Quant Type: ESTD
Cal Date : 01-MAR-2024 10:01 Cal File: 005.D
Als bottle: 6 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: stdNI2.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	0.436	0.436	0.000	10502	9.64700	9.334
2 Ethene	0.640	0.640	0.000	14206	16.8500	19.642
3 Ethane	0.703	0.703	0.000	20920	18.0430	20.836
4 Propane	2.020	2.020	0.000	27110	26.4630	29.277
5 N-Butane	4.900	4.900	0.000	35491	34.9550	38.973

Data File: \\NAHSTWS005\Target\chem\FID-4.i\240301.b\006.D

Date : 01-MAR-2024 10:22

Client ID: RSK-ICAL L5

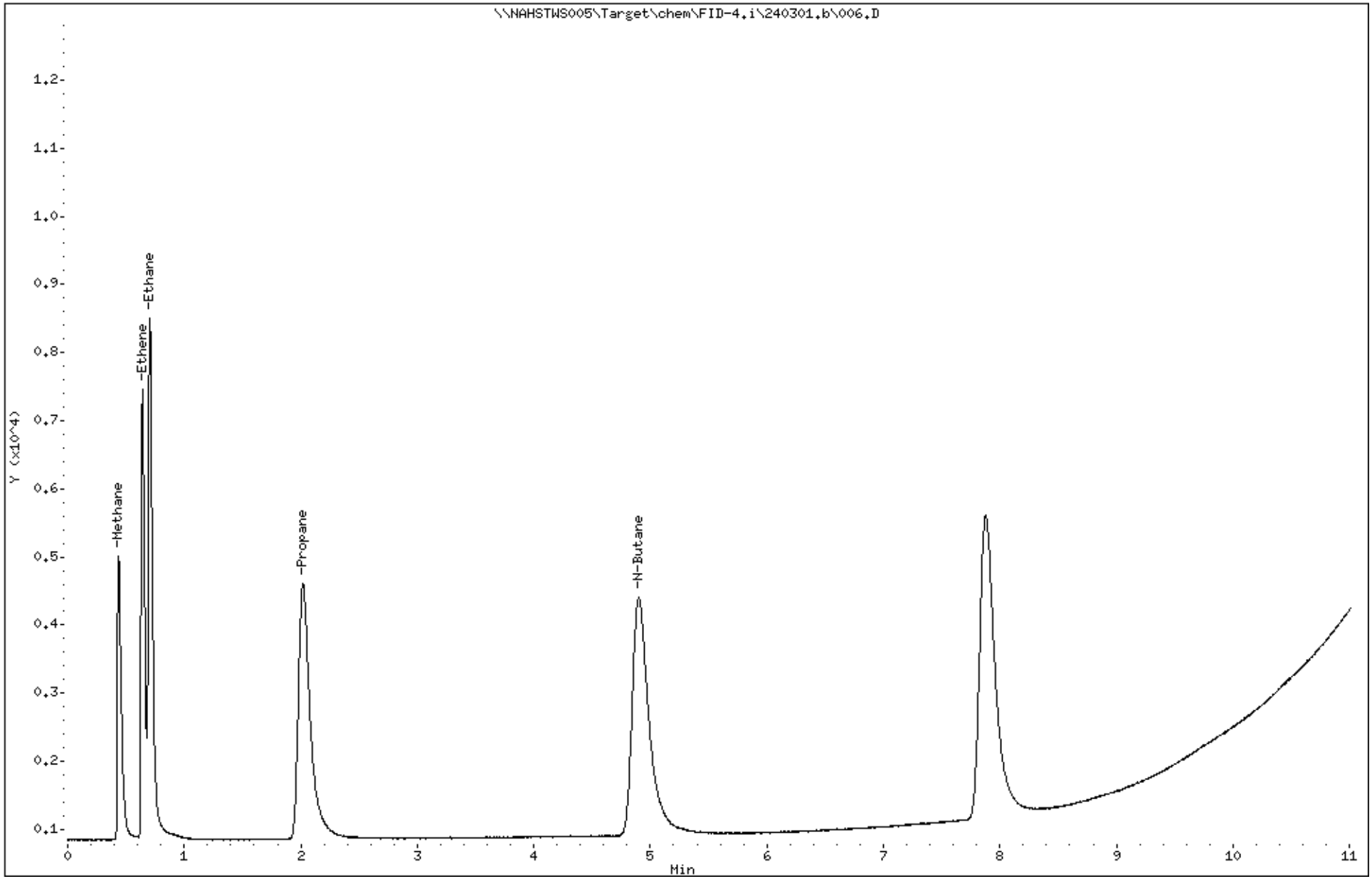
Instrument: FID-4.i

Sample Info: RSK-ICAL L5;RSK-ICAL L5;2;4

Operator: PL

Column phase: Rtx-PLOT

Column diameter: 0.53



Data File : \\NAHSTWS005\Target\chem\FID-4.i\240301.b\006.D
Inj Date : 01-MAR-2024 10:22
InstruID : FID-4.i
LabSampID : RSK-ICAL L5

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\FID-4.i\240301.b\007.D Page 1
Report Date: 11-Mar-2024 18:14

ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\NAHSTWS005\Target\chem\FID-4.i\240301.b\007.D
Lab Smp Id: RSK-ICAL L6 Client Smp ID: RSK-ICAL L6
Inj Date : 01-MAR-2024 10:37
Operator : PL Inst ID: FID-4.i
Smp Info : RSK-ICAL L6;RSK-ICAL L6;2;4
Misc Info : ;1;0;1
Comment :
Method : \\NAHSTWS005\Target\chem\FID-4.i\240301.b\RSKNI2.m
Meth Date : 11-Mar-2024 18:06 FID-4.i Quant Type: ESTD
Cal Date : 01-MAR-2024 10:22 Cal File: 006.D
Als bottle: 7 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: stdNI2.sub
Target Version: 4.14

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

					AMOUNTS	
					CAL-AMT	ON-COL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(ug/L)	(ug/L)
1 Methane	0.426	0.440	-0.014	20304	19.2940	18.046
2 Ethene	0.633	0.643	-0.010	27621	53.8200	38.191(M)
3 Ethane	0.696	0.710	-0.014	38290	36.0860	38.137(M)
4 Propane	2.013	2.016	-0.003	52875	52.9260	57.102
5 N-Butane	4.893	4.886	0.007	69190	69.9110	75.979

QC Flag Legend

M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\FID-4.i\240301.b\007.D

Date : 01-MAR-2024 10:37

Client ID: RSK-ICAL L6

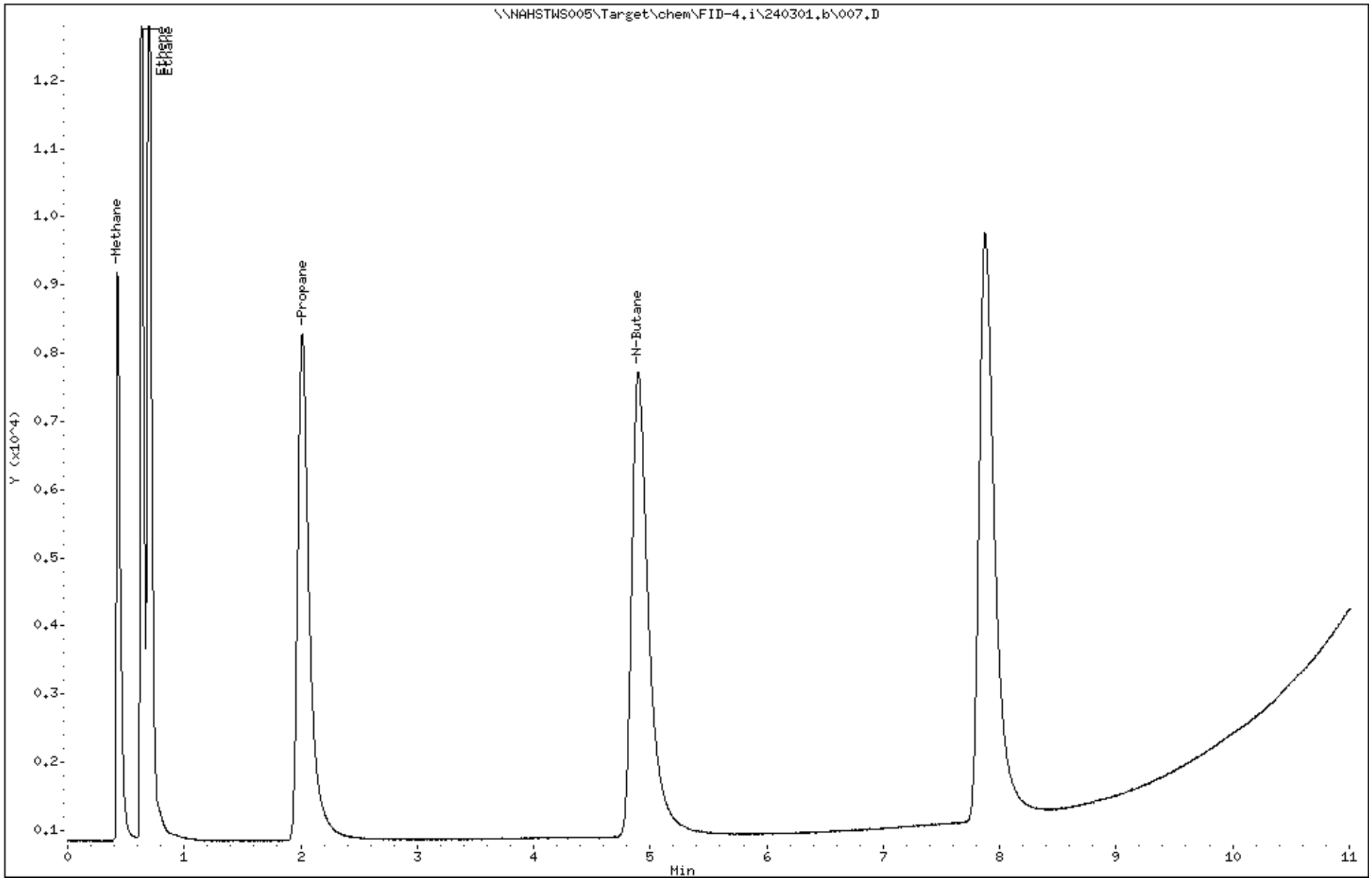
Instrument: FID-4.i

Sample Info: RSK-ICAL L6;RSK-ICAL L6;2;4

Operator: PL

Column phase: Rtx-PLOT

Column diameter: 0.53



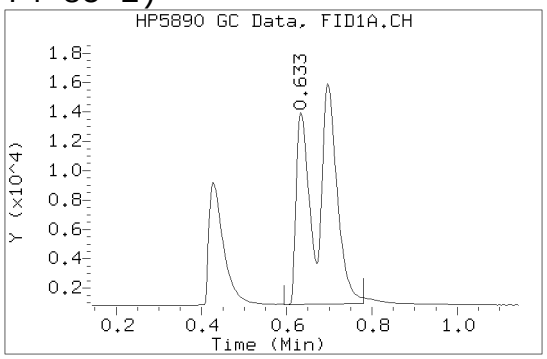
Data File : \\NAHSTWS005\Target\chem\FID-4.i\240301.b\007.D
Inj Date : 01-MAR-2024 10:37
InstruID : FID-4.i
LabSampID : RSK-ICAL L6

Ethene (74-85-1)

Reason Code: MUP

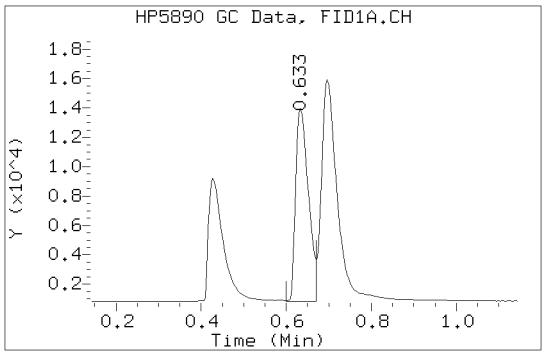
BEFORE

MASS
100
AREA
64499
HEIGHT
13052
11-Mar-2024
18:03
linh
pham



AFTER

MASS
100
AREA
27621
HEIGHT
13106
11-Mar-2024
18:14
linh
pham

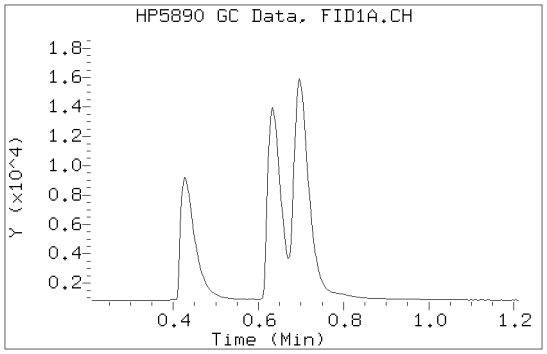


Ethane (74-84-0)

Reason Code: MUP

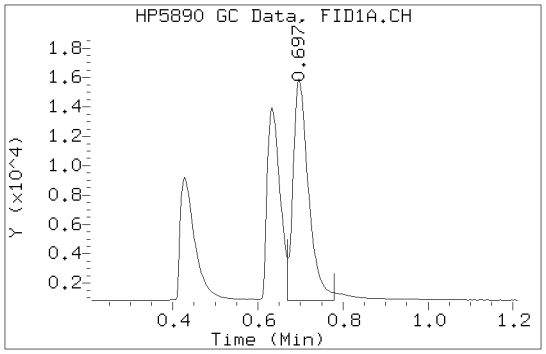
BEFORE

MASS
44
AREA
0
HEIGHT
0
11-Mar-2024
18:03
linh
pham



AFTER

MASS
44
AREA
38290
HEIGHT
15074
11-Mar-2024
18:14
linh
pham



Data File: \\NAHSTWS005\Target\chem\FID-4.i\240301.b\008.D Page 1
Report Date: 11-Mar-2024 18:12

ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\NAHSTWS005\Target\chem\FID-4.i\240301.b\008.D
Lab Smp Id: RSK-ICAL L7 Client Smp ID: RSK-ICAL L7
Inj Date : 01-MAR-2024 11:04
Operator : PL Inst ID: FID-4.i
Smp Info : RSK-ICAL L7;RSK-ICAL L7;2;4
Misc Info : ;1;0;1
Comment :
Method : \\NAHSTWS005\Target\chem\FID-4.i\240301.b\RSKNI2.m
Meth Date : 11-Mar-2024 18:06 FID-4.i Quant Type: ESTD
Cal Date : 01-MAR-2024 10:37 Cal File: 007.D
Als bottle: 8 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: stdNI2.sub
Target Version: 4.14

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

					AMOUNTS	
					CAL-AMT	ON-COL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(ug/L)	(ug/L)
1 Methane	0.436	0.440	-0.004	39175	38.5880	34.820
2 Ethene	0.640	0.643	-0.003	54673	67.4000	75.596(A)
3 Ethane	0.703	0.710	-0.007	78784	72.1720	78.469(AM)
4 Propane	2.016	2.016	0.000	104463	105.852	112.815(A)
5 N-Butane	4.896	4.886	0.010	138179	139.821	151.737(A)

QC Flag Legend

A - Target compound detected but, quantitated amount
exceeded maximum amount.
M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\FID-4.i\240301.b\008.D

Date : 01-MAR-2024 11:04

Client ID: RSK-ICAL L7

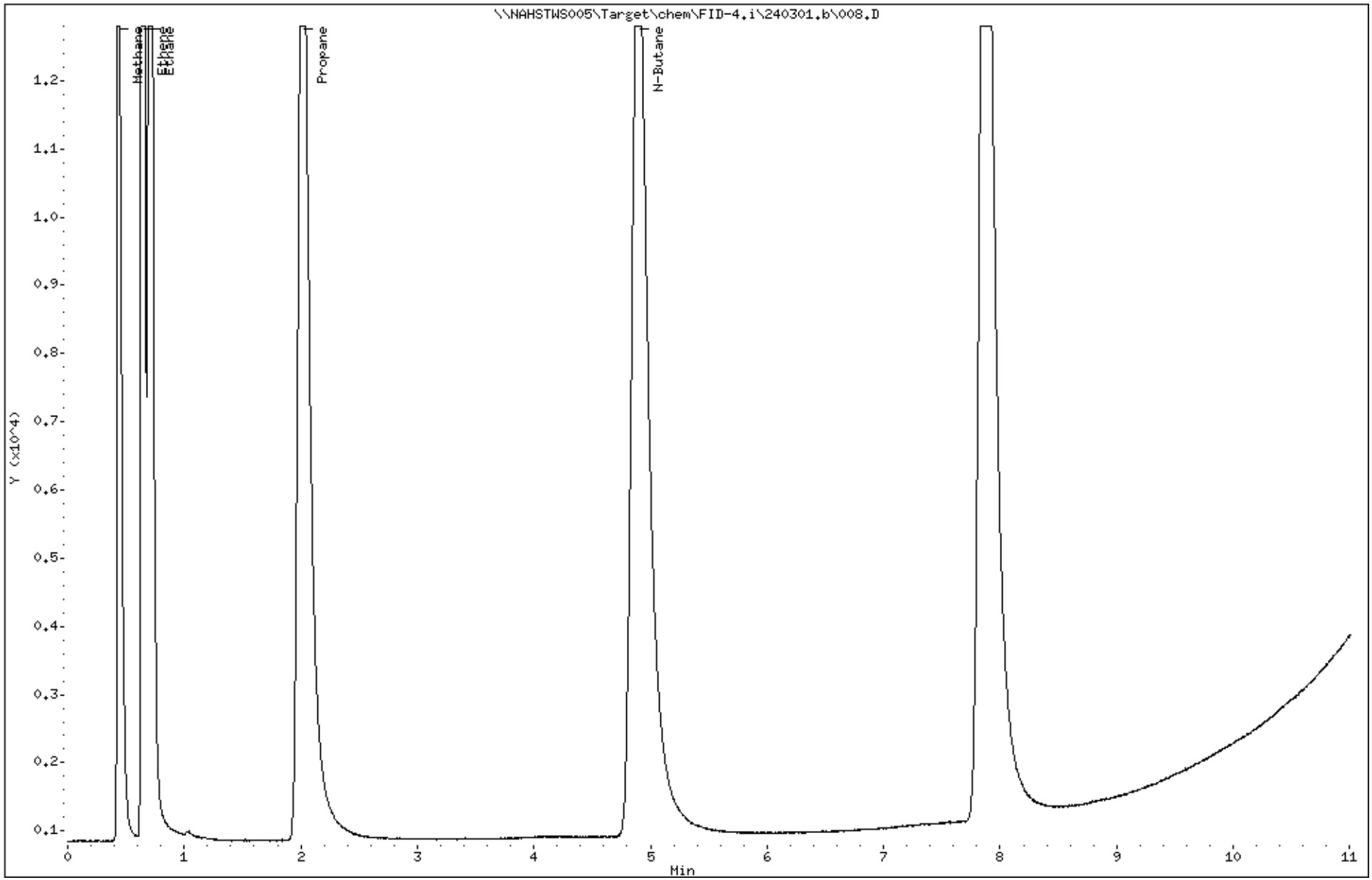
Instrument: FID-4.i

Sample Info: RSK-ICAL L7;RSK-ICAL L7;2;4

Operator: PL

Column phase: Rtx-PLOT

Column diameter: 0.53



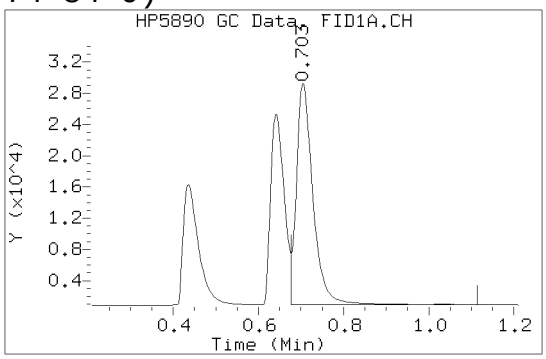
Data File : \\NAHSTWS005\Target\chem\FID-4.i\240301.b\008.D
Inj Date : 01-MAR-2024 11:04
InstruID : FID-4.i
LabSampID : RSK-ICAL L7

Ethane (74-84-0)

Reason Code: MBA

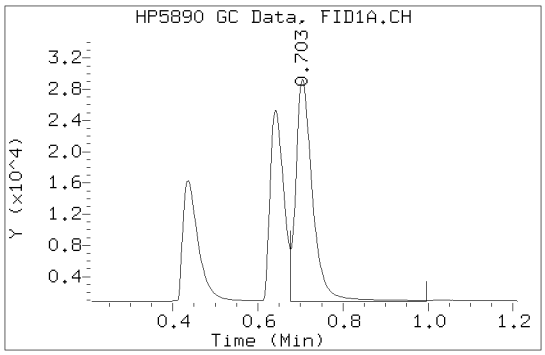
BEFORE

MASS
100
AREA
104463
HEIGHT
14645
01-Mar-2024
11:18
ALSHS
Server



AFTER

MASS
44
AREA
78784
HEIGHT
28380
11-Mar-2024
18:12
ALSHS
Ser



Data File: \\NAHSTWS005\Target\chem\FID-4.i\240301.b\009.D Page 1
Report Date: 11-Mar-2024 18:13

ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\NAHSTWS005\Target\chem\FID-4.i\240301.b\009.D
Lab Smp Id: RSK-ICAL L1 Client Smp ID: RSK-ICAL L1
Inj Date : 01-MAR-2024 15:48
Operator : PL Inst ID: FID-4.i
Smp Info : RSK-ICAL L1;RSK-ICAL L1;2;4
Misc Info : ;1;0;1
Comment :
Method : \\NAHSTWS005\Target\chem\FID-4.i\240301.b\RSKNI2.m
Meth Date : 11-Mar-2024 18:06 FID-4.i Quant Type: ESTD
Cal Date : 01-MAR-2024 11:04 Cal File: 008.D
Als bottle: 9 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: stdNI2.sub
Target Version: 4.14

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

					AMOUNTS	
					CAL-AMT	ON-COL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(ug/L)	(ug/L)
1 Methane	0.440	0.440	0.000	492	0.38600	0.437(aM)
2 Ethene	0.643	0.643	0.000	402	0.67400	0.555(aM)
3 Ethane	0.710	0.710	0.000	514	0.72200	0.511(a)
4 Propane	2.016	2.016	0.000	680	1.05900	0.734
5 N-Butane	4.886	4.886	0.000	787	1.39800	0.864(M)

QC Flag Legend

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

Data File: \\NAHSTWS005\Target\chem\FID-4.i\240301.b\009.D

Page 1

Date : 01-MAR-2024 15:48

Client ID: RSK-ICAL L1

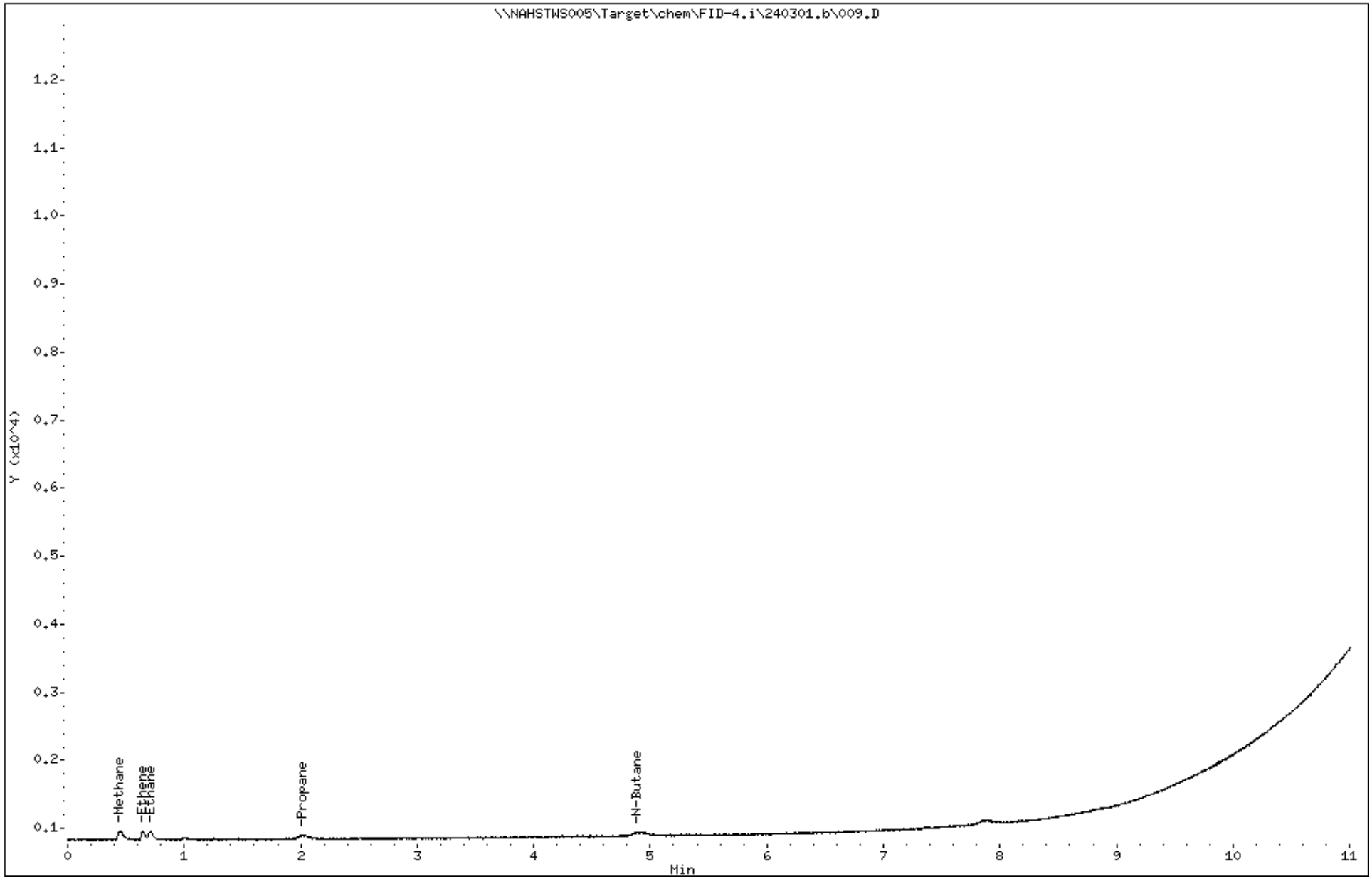
Instrument: FID-4.i

Sample Info: RSK-ICAL L1;RSK-ICAL L1;2;4

Operator: PL

Column phase: Rtx-PLOT

Column diameter: 0.53



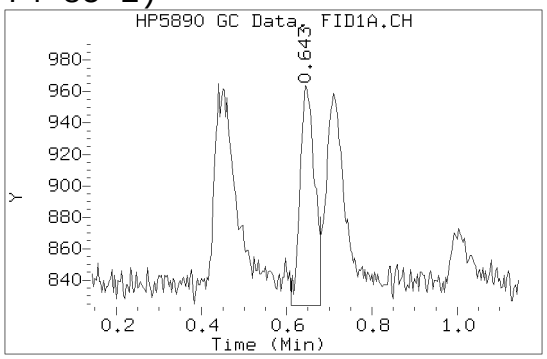
Data File : \\NAHSTWS005\Target\chem\FID-4.i\240301.b\009.D
Inj Date : 01-MAR-2024 15:48
InstruID : FID-4.i
LabSampID : RSK-ICAL L1

Ethene (74-85-1)

Reason Code: MBA

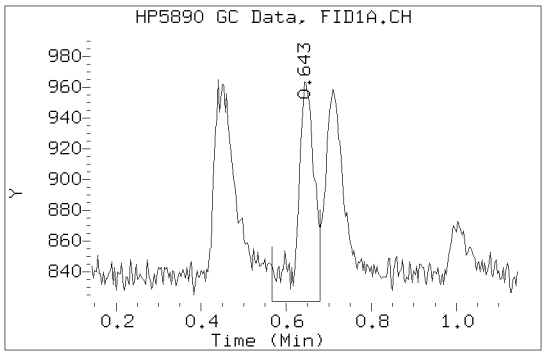
BEFORE

MASS
100
AREA
330
HEIGHT
140
11-Mar-2024
18:03
linh
pham



AFTER

MASS
100
AREA
402
HEIGHT
143
11-Mar-2024
18:13
linh
pham

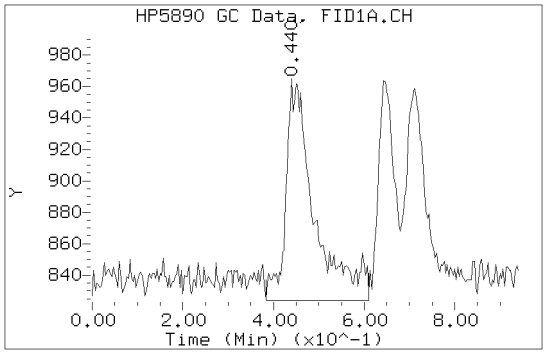


Methane (74-82-8)

Reason Code: MPT

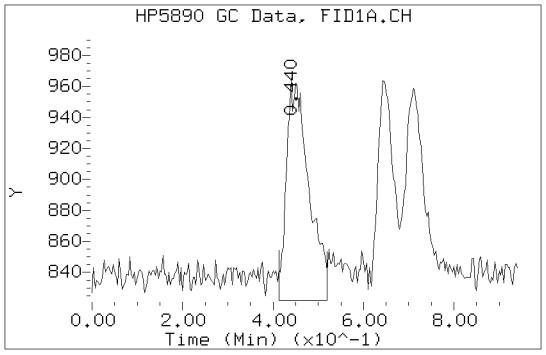
BEFORE

MASS
100
AREA
606
HEIGHT
141
11-Mar-2024
18:03
linh
pham



AFTER

MASS
100
AREA
492
HEIGHT
143
11-Mar-2024
18:13
linh
pham

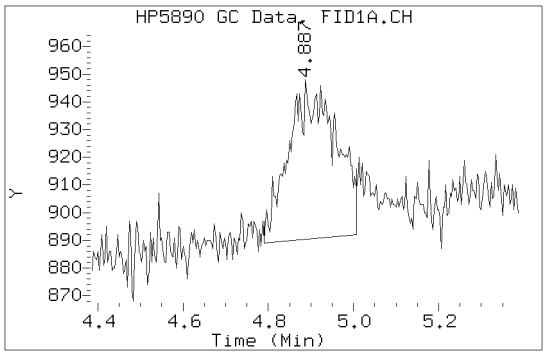


N-Butane (106-97-8)

Reason Code: MBA

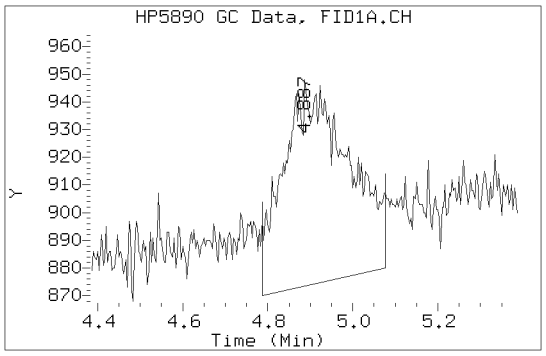
BEFORE

MASS
100
AREA
435
HEIGHT
58
11-Mar-2024
18:03
linh
pham



AFTER

MASS
100
AREA
787
HEIGHT
74
11-Mar-2024
18:13
linh
pham



Data File: \\NAHSTWS005\Target\chem\FID-4.i\240301.b\010.D Page 1
Report Date: 11-Mar-2024 18:14

ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\NAHSTWS005\Target\chem\FID-4.i\240301.b\010.D
Lab Smp Id: RSK-ICV Client Smp ID: RSK-ICV
Inj Date : 01-MAR-2024 17:00
Operator : PL Inst ID: FID-4.i
Smp Info : RSK-ICV;RSK-ICV;2;4
Misc Info : ;1;0;1
Comment :
Method : \\NAHSTWS005\Target\chem\FID-4.i\240301.b\RSKNI2.m
Meth Date : 11-Mar-2024 18:06 FID-4.i Quant Type: ESTD
Cal Date : 01-MAR-2024 15:48 Cal File: 009.D
Als bottle: 10 QC Sample: METHSPIKE
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: stdNI2.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	0.433	0.440	-0.007	9107	8.09464	8.094(M)
2 Ethene	0.640	0.643	-0.003	11911	16.4693	16.469(M)
3 Ethane	0.703	0.710	-0.007	17066	16.9979	16.997(M)
4 Propane	2.016	2.016	0.000	22796	24.6186	24.618
5 N-Butane	4.866	4.886	-0.020	30004	32.9481	32.948

QC Flag Legend

M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\FID-4.i\240301.b\010.D

Date : 01-MAR-2024 17:00

Client ID: RSK-ICV

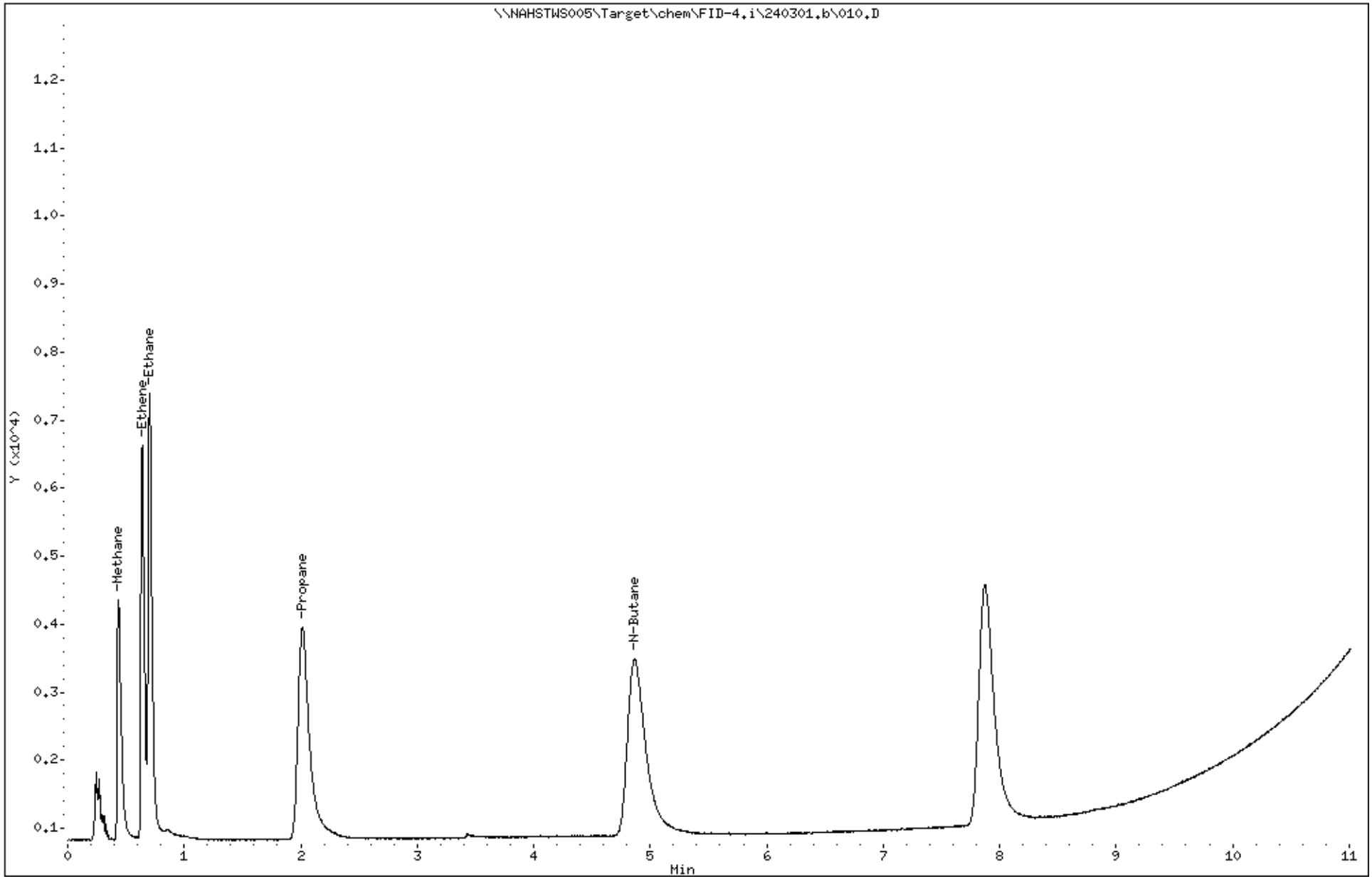
Instrument: FID-4.i

Sample Info: RSK-ICV;RSK-ICV;2;4

Operator: PL

Column phase: Rtx-PLOT

Column diameter: 0.53



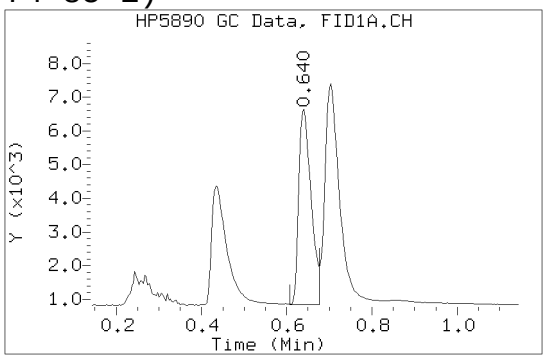
Data File : \\NAHSTWS005\Target\chem\FID-4.i\240301.b\010.D
Inj Date : 01-MAR-2024 17:00
InstruID : FID-4.i
LabSampID : RSK-ICV

Ethene (74-85-1)

Reason Code: MBA

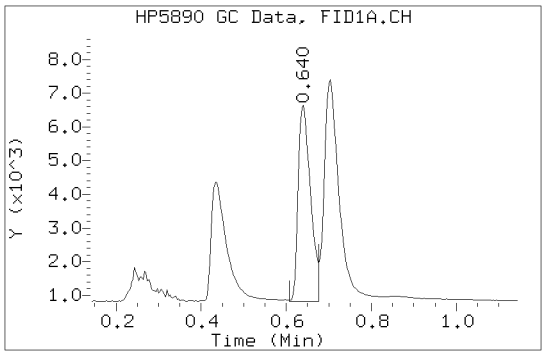
BEFORE

MASS
100
AREA
11711
HEIGHT
5791
11-Mar-2024
18:03
linh
pham



AFTER

MASS
100
AREA
11911
HEIGHT
5810
11-Mar-2024
18:14
linh
pham

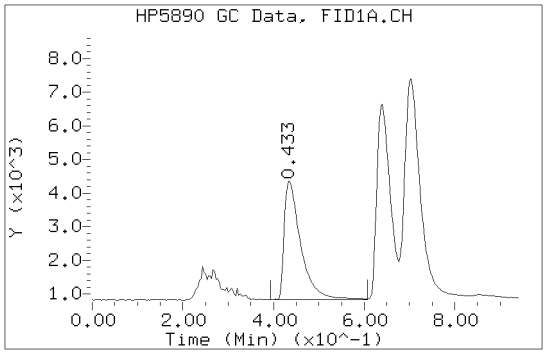


Methane (74-82-8)

Reason Code: MBA

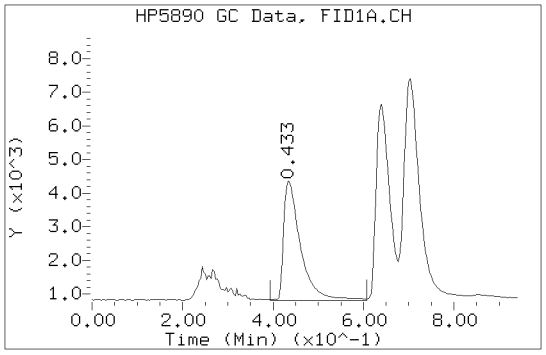
BEFORE

MASS
100
AREA
8956
HEIGHT
3536
11-Mar-2024
18:03
linh
pham



AFTER

MASS
100
AREA
9107
HEIGHT
3542
11-Mar-2024
18:14
linh
pham

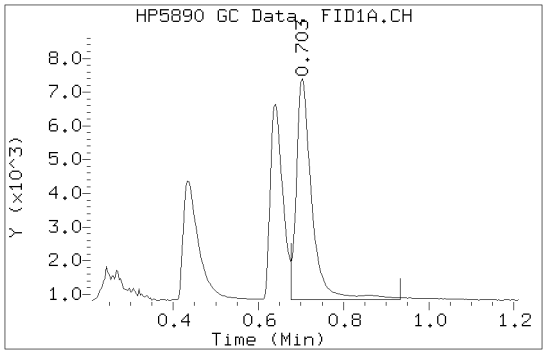


Ethane (74-84-0)

Reason Code: MBA

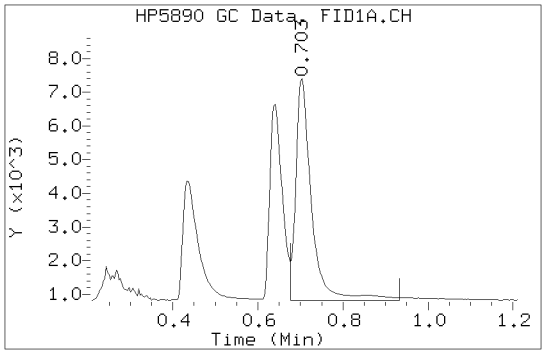
BEFORE

MASS
44
AREA
16654
HEIGHT
6554
11-Mar-2024
18:03
linh
pham



AFTER

MASS
44
AREA
17066
HEIGHT
6573
11-Mar-2024
18:14
linh
pham



right solutions.
right partner.

RawData

<textMethods>

Workorder

HS24051490

Client

Bhate Environmental Associates, Inc.

Project

LHAAP-50

06/24/2024

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\240531.b\001.D Page 1
Report Date: 31-May-2024 16:23

ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\NAHSTWS005\Target\chem\FID-4.i\240531.b\001.D
Lab Smp Id: RSK-CCV Client Smp ID: RSK-CCV
Inj Date : 31-MAY-2024 09:09
Operator : RG 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\240531.b\RSKNI3.m
Meth Date : 31-May-2024 12:13 ryan.guthr Quant Type: ESTD
Cal Date : 01-MAR-2024 11:04 Cal File: 008.D
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: RSK175.sub
Target Version: 4.14
Processing Host: NAHSTW7021

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

					AMOUNTS	
					CAL-AMT	ON-COL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(ug/L)	(ug/L)
1 Methane	0.430	0.433	-0.003	9668	9.64700	8.593(M)
2 Ethene	0.633	0.636	-0.003	10435	16.8500	14.428(M)
3 Ethane	0.696	0.700	-0.004	14840	18.0430	14.780(M)

QC Flag Legend

M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\FID-4.i\240531.b\001.D

Date : 31-MAY-2024 09:09

Client ID: RSK-CCV

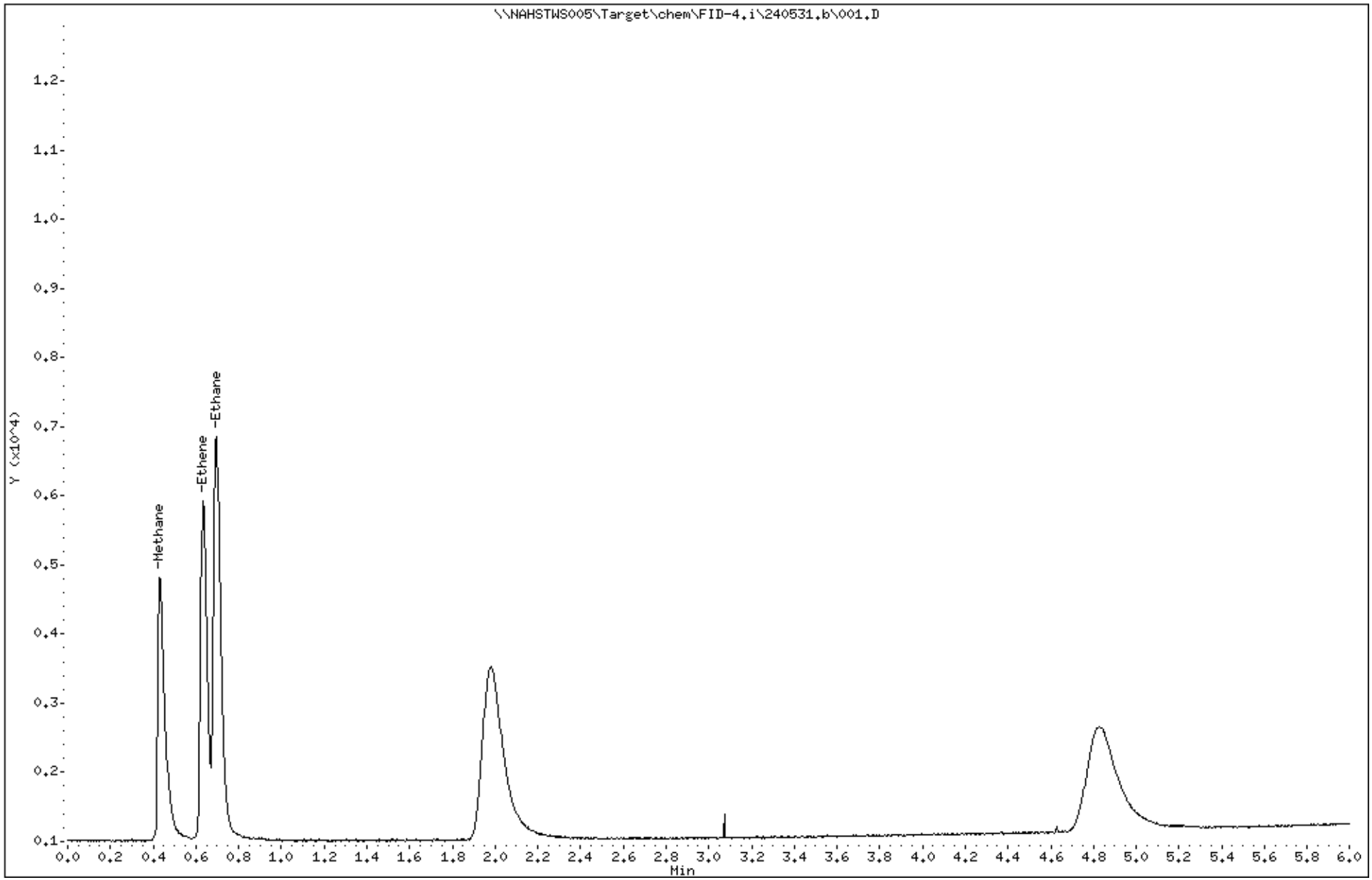
Instrument: FID-4.i

Sample Info: RSK-CCV;RSK-CCV;2;4

Operator: RG

Column phase: Rtx-PLOT

Column diameter: 0.53



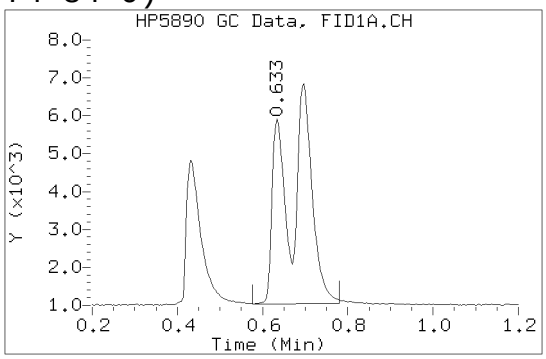
Data File : \\NAHSTWS005\Target\chem\FID-4.i\240531.b\001.D
Inj Date : 31-MAY-2024 09:09
InstruID : FID-4.i
LabSampID : RSK-CCV

Ethane (74-84-0)

Reason Code: MUP

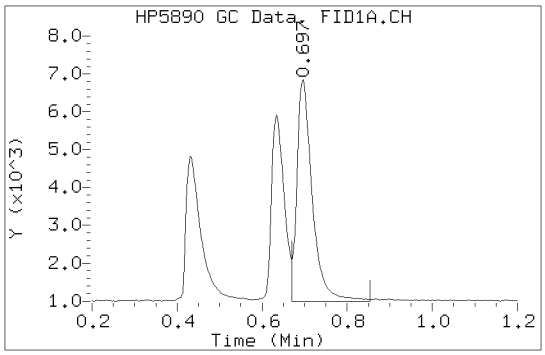
BEFORE

MASS
44
AREA
24090
HEIGHT
4888
31-May-2024
09:16
ALSHS
Server



AFTER

MASS
44
AREA
14840
HEIGHT
5858
31-May-2024
16:23
ALSHS
Server

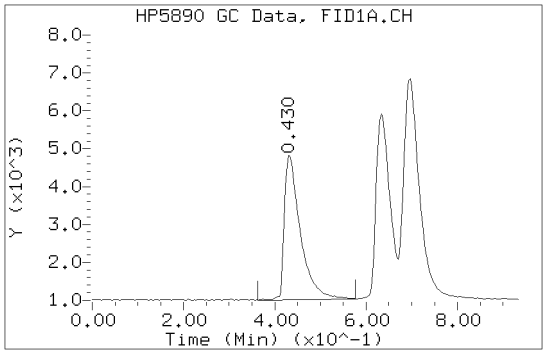


Methane (74-82-8)

Reason Code: MBA

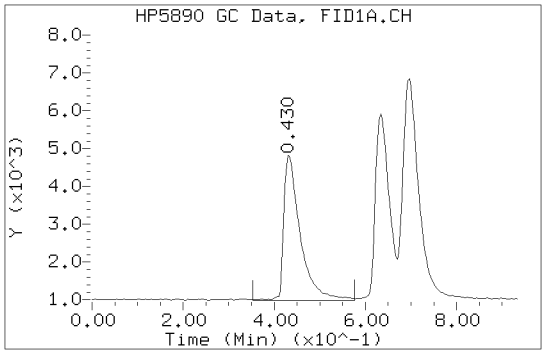
BEFORE

MASS
100
AREA
16485
HEIGHT
1523
31-May-2024
09:16
ALSHS
Server



AFTER

MASS
100
AREA
9668
HEIGHT
3828
31-May-2024
16:23
ALSHS
Server

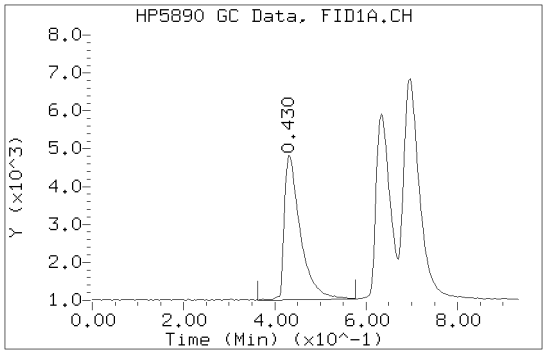


Ethene (74-85-1)

Reason Code: MUP

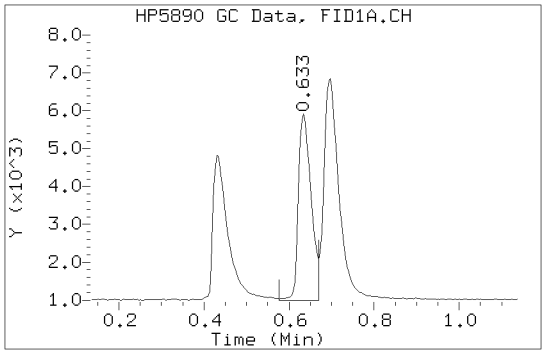
BEFORE

MASS
100
AREA
18217
HEIGHT
2520
31-May-2024
09:16
ALSHS
Server



AFTER

MASS
100
AREA
10435
HEIGHT
4932
31-May-2024
16:23
ALSHS
Server



Data File: \\NAHSTWS005\Target\chem\FID-4.i\240531.b\002.D Page 1
Report Date: 31-May-2024 16:23

ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\NAHSTWS005\Target\chem\FID-4.i\240531.b\002.D
Lab Smp Id: MBLK-240531 Client Smp ID: MBLK-240531
Inj Date : 31-MAY-2024 09:17
Operator : RG Inst ID: FID-4.i
Smp Info : MBLK-240531;MBLK-240531;3;;BLANK
Misc Info : ;1;0;1
Comment :
Method : \\NAHSTWS005\Target\chem\FID-4.i\240531.b\RSKNI3.m
Meth Date : 31-May-2024 12:13 ryan.guthr Quant Type: ESTD
Cal Date : 01-MAR-2024 11:04 Cal File: 008.D
Als bottle: 2 QC Sample: BLANK
Dil Factor: 1.00000
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)

Data File: \\NAHSTWS005\Target\chem\FID-4.i\240531.b\002.D

Date : 31-MAY-2024 09:17

Client ID: MBLK-240531

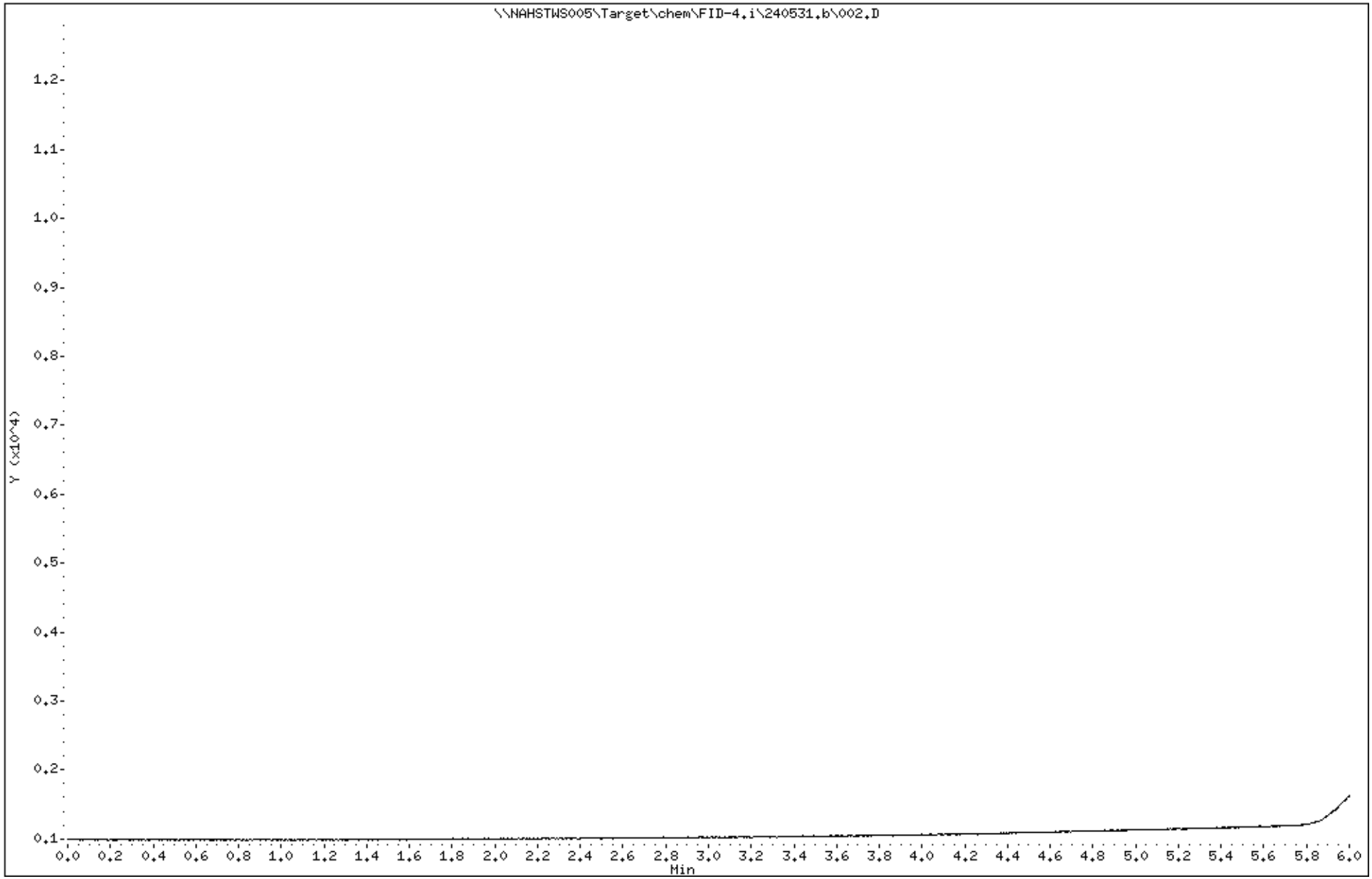
Instrument: FID-4.i

Sample Info: MBLK-240531;MBLK-240531;3;;BLANK

Operator: RG

Column phase: Rtx-PLOT

Column diameter: 0.53



Data File : \\NAHSTWS005\Target\chem\FID-4.i\240531.b\002.D
Inj Date : 31-MAY-2024 09:17
InstruID : FID-4.i
LabSampID : MBLK-240531

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\FID-4.i\240531.b\003.D Page 1
Report Date: 31-May-2024 16:24

ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\NAHSTWS005\Target\chem\FID-4.i\240531.b\003.D
Lab Smp Id: LCS-240531 Client Smp ID: LCS-240531
Inj Date : 31-MAY-2024 09:30
Operator : RG Inst ID: FID-4.i
Smp Info : LCS-240531;LCS-240531;3;;LCS
Misc Info : ;1;0;1
Comment :
Method : \\nahstws005\Target\chem\FID-4.i\240531.b\RSKNI3.m
Meth Date : 31-May-2024 12:13 ryan.guthr Quant Type: ESTD
Cal Date : 01-MAR-2024 11:04 Cal File: 008.D
Als bottle: 3 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: RSK175.sub
Target Version: 4.14

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

					CONCENTRATIONS	
					ON-COLUMN	FINAL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(ug/L)	(ug/L)
1 Methane	0.430	0.433	-0.003	10215	9.07948	9.079
2 Ethene	0.633	0.636	-0.003	10525	14.5529	14.552(M)
3 Ethane	0.696	0.700	-0.004	15380	15.3186	15.318(M)

QC Flag Legend

M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\FID-4.i\240531.b\003.D

Date : 31-MAY-2024 09:30

Client ID: LCS-240531

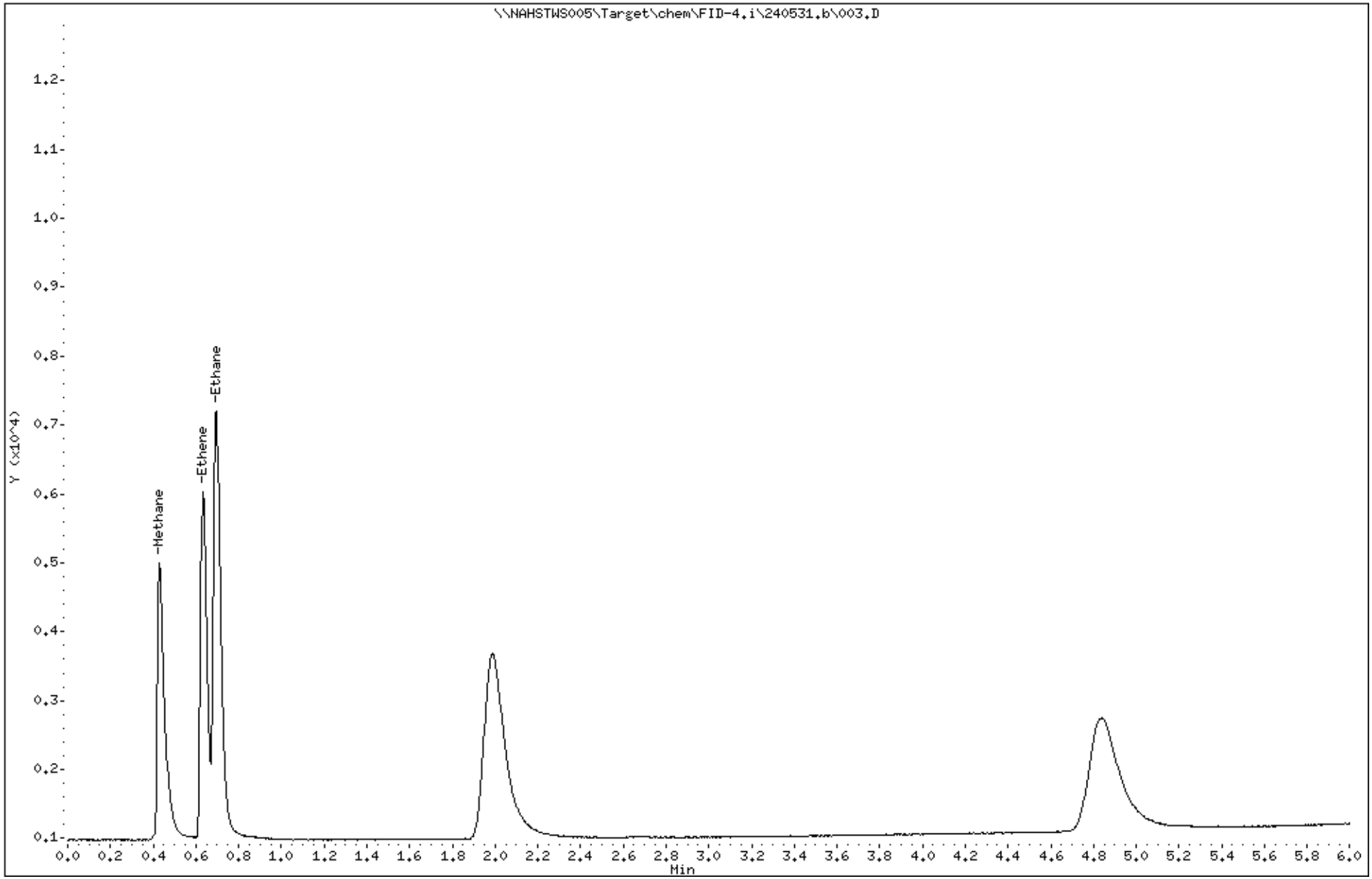
Instrument: FID-4.i

Sample Info: LCS-240531;LCS-240531;3;;LCS

Operator: RG

Column phase: Rtx-PLOT

Column diameter: 0.53



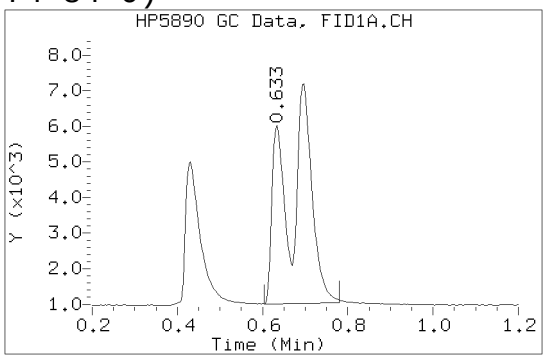
Data File : \\NAHSTWS005\Target\chem\FID-4.i\240531.b\003.D
Inj Date : 31-MAY-2024 09:30
InstruID : FID-4.i
LabSampID : LCS-240531

Ethane (74-84-0)

Reason Code: MUP

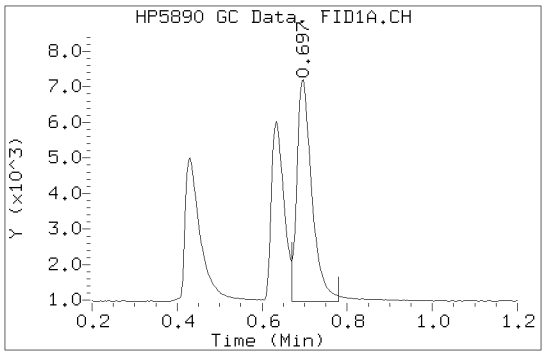
BEFORE

MASS
44
AREA
25012
HEIGHT
5011
31-May-2024
09:39
ALSHS
Server



AFTER

MASS
44
AREA
15380
HEIGHT
6229
31-May-2024
16:24
ALSHS
Server

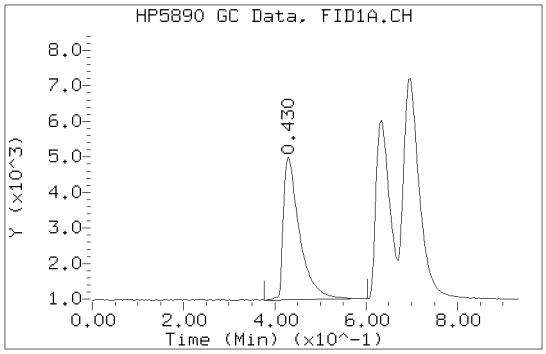


Ethene (74-85-1)

Reason Code: MUP

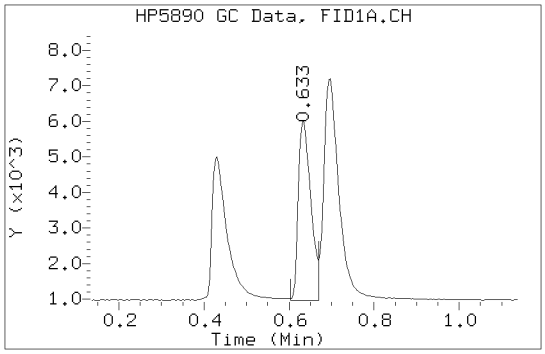
BEFORE

MASS
100
AREA
19265
HEIGHT
2694
31-May-2024
09:39
ALSHS
Server



AFTER

MASS
100
AREA
10525
HEIGHT
5061
31-May-2024
16:24
ALSHS
Server



Data File: \\NAHSTWS005\Target\chem\FID-4.i\240531.b\004.D Page 1
Report Date: 31-May-2024 16:24

ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\NAHSTWS005\Target\chem\FID-4.i\240531.b\004.D
Lab Smp Id: LCSD-240531 Client Smp ID: LCSD-240531
Inj Date : 31-MAY-2024 09:38
Operator : RG Inst ID: FID-4.i
Smp Info : LCSD-240531;LCSD-240531;3;;LCSD
Misc Info : ;1;0;1
Comment :
Method : \\nahstws005\Target\chem\FID-4.i\240531.b\RSKNI3.m
Meth Date : 31-May-2024 12:13 ryan.guthr Quant Type: ESTD
Cal Date : 01-MAR-2024 11:04 Cal File: 008.D
Als bottle: 4 QC Sample: LCSD
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: RSK175.sub
Target Version: 4.14

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

					CONCENTRATIONS	
					ON-COLUMN	FINAL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(ug/L)	(ug/L)
1 Methane	0.430	0.433	-0.003	9775	8.68839	8.688
2 Ethene	0.633	0.636	-0.003	10044	13.8878	13.887(M)
3 Ethane	0.696	0.700	-0.004	14830	14.7708	14.770(M)

QC Flag Legend

M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\FID-4.i\240531.b\004.D

Date : 31-MAY-2024 09:38

Client ID: LCSD-240531

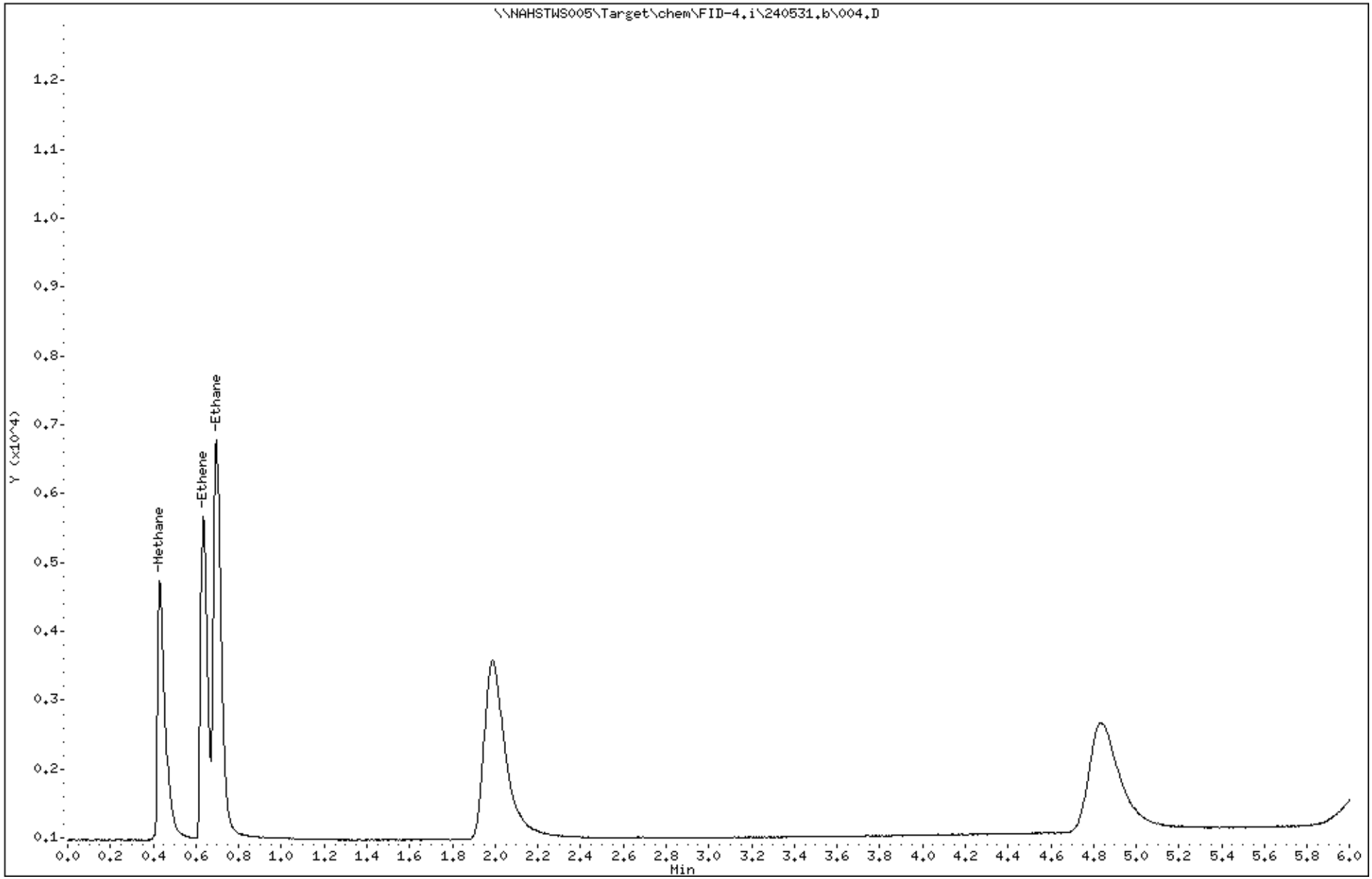
Instrument: FID-4.i

Sample Info: LCSD-240531;LCSD-240531;3;;LCSD

Operator: RG

Column phase: Rtx-PLOT

Column diameter: 0.53



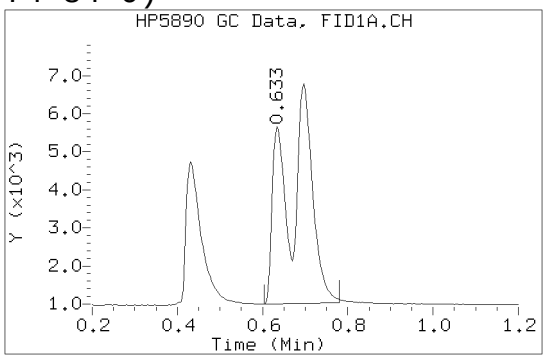
Data File : \\NAHSTWS005\Target\chem\FID-4.i\240531.b\004.D
Inj Date : 31-MAY-2024 09:38
InstruID : FID-4.i
LabSampID : LCSD-240531

Ethane (74-84-0)

Reason Code: MUP

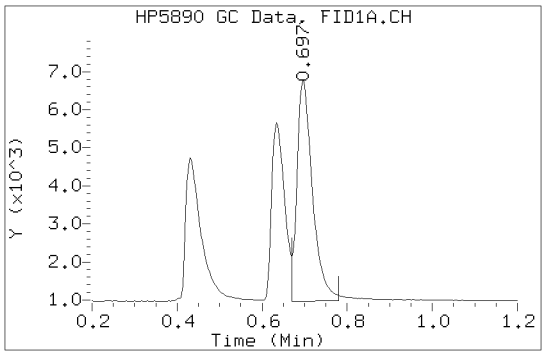
BEFORE

MASS
44
AREA
24207
HEIGHT
4664
31-May-2024
09:45
ALSHS
Server



AFTER

MASS
44
AREA
14830
HEIGHT
5816
31-May-2024
16:24
ALSHS
Server

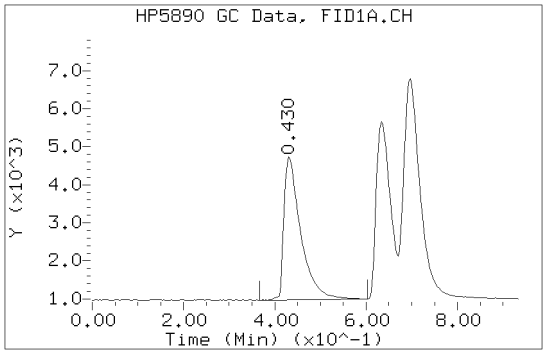


Ethene (74-85-1)

Reason Code: MUP

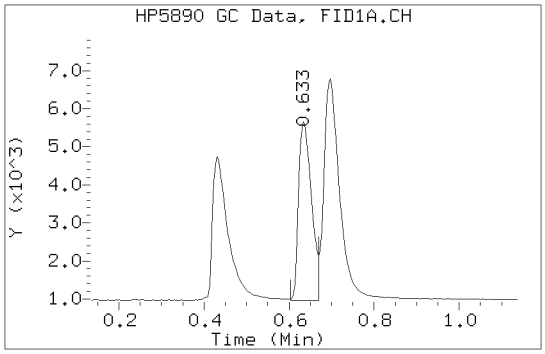
BEFORE

MASS
100
AREA
18858
HEIGHT
2603
31-May-2024
09:45
ALSHS
Server



AFTER

MASS
100
AREA
10044
HEIGHT
4696
31-May-2024
16:24
ALSHS
Server



Data File: \\nahstws005\Target\chem\FID-4.i\240531.b\006.D Page 1
Report Date: 31-May-2024 14:32

ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\nahstws005\Target\chem\FID-4.i\240531.b\006.D
Lab Smp Id: HS24051490-06 Client Smp ID: HS24051490-06
Inj Date : 31-MAY-2024 10:01
Operator : RG Inst ID: FID-4.i
Smp Info : HS24051490-06;HS24051490-06
Misc Info : ;1;0;1
Comment :
Method : \\nahstws005\Target\chem\FID-4.i\240531.b\RSKNI3.m
Meth Date : 31-May-2024 12:13 ryan.guthr Quant Type: ESTD
Cal Date : 01-MAR-2024 11:04 Cal File: 008.D
Als bottle: 6
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: RSK175.sub
Target Version: 4.14

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

					CONCENTRATIONS	
					ON-COLUMN	FINAL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(ug/L)	(ug/L)
1 Methane	0.430	0.433	-0.003	2335	2.07544	2.075(M)

QC Flag Legend

M - Compound response manually integrated.

Data File: \\nahstws005\Target\chem\FID-4.i\240531.b\006.D

Date : 31-MAY-2024 10:01

Client ID: HS24051490-06

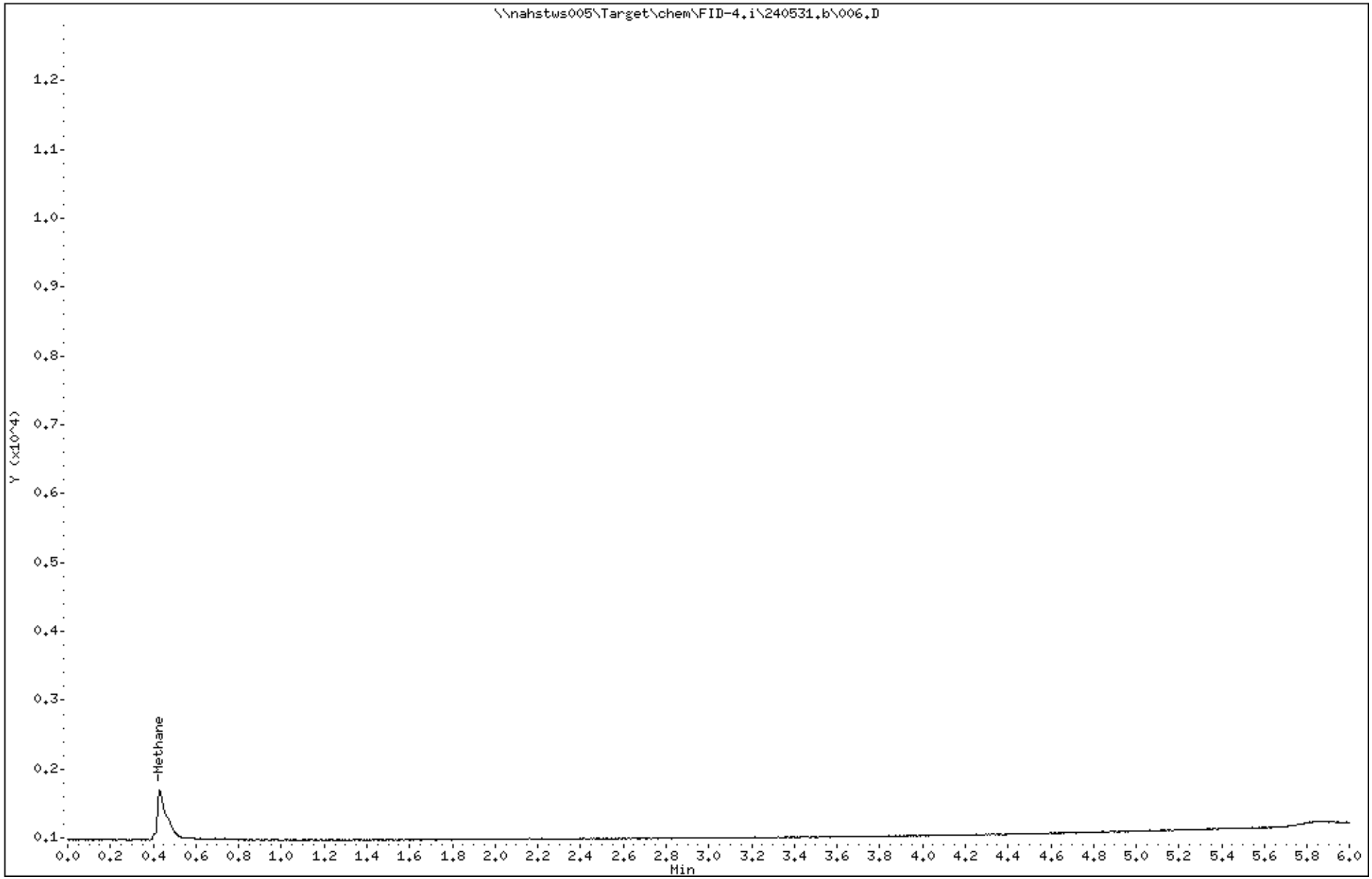
Instrument: FID-4.i

Sample Info: HS24051490-06;HS24051490-06

Operator: RG

Column phase: Rtx-PLOT

Column diameter: 0.53



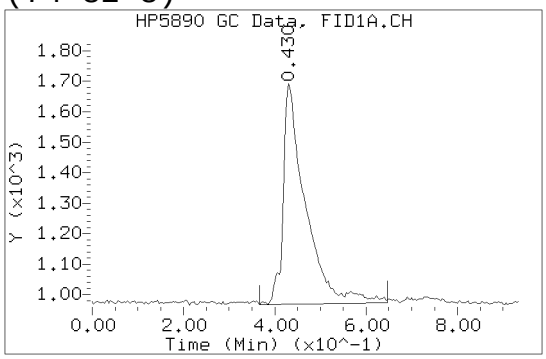
Data File : \\nahstws005\Target\chem\FID-4.i\240531.b\006.D
Inj Date : 31-MAY-2024 10:01
InstruID : FID-4.i
LabSampID : HS24051490-06

Methane (74-82-8)

Reason Code: MBA

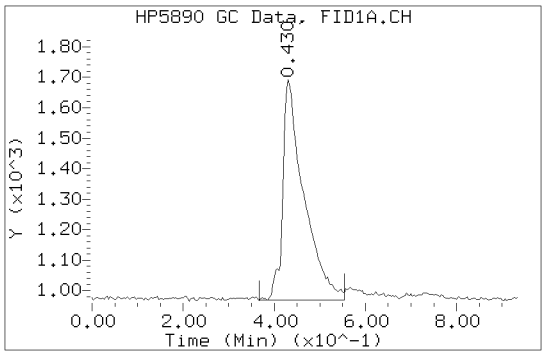
BEFORE

MASS
100
AREA
0
HEIGHT
0
31-May-2024
10:08
ALSHS
Server



AFTER

MASS
100
AREA
2335
HEIGHT
723
31-May-2024
14:32
ALSHS
Server



Data File: \\nahstws005\Target\chem\FID-4.i\240531.b\011.D Page 1
Report Date: 31-May-2024 11:11

ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\nahstws005\Target\chem\FID-4.i\240531.b\011.D
Lab Smp Id: RSK-CCV Client Smp ID: RSK-CCV
Inj Date : 31-MAY-2024 11:03
Operator : RG 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\240531.b\RSKNI3.m
Meth Date : 31-May-2024 11:11 ryan.guthr Quant Type: ESTD
Cal Date : 01-MAR-2024 11:04 Cal File: 008.D
Als bottle: 11 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: RSK175.sub
Target Version: 4.14
Processing Host: NAHSTW7021

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

					AMOUNTS	
					CAL-AMT	ON-COL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(ug/L)	(ug/L)
1 Methane	0.433	0.433	0.000	8980	9.64700	7.981
2 Ethene	0.636	0.636	0.000	9821	16.8500	13.579
3 Ethane	0.700	0.700	0.000	14899	18.0430	14.839

Data File: \\nahstws005\Target\chem\FID-4.i\240531.b\011.D

Date : 31-MAY-2024 11:03

Client ID: RSK-CCV

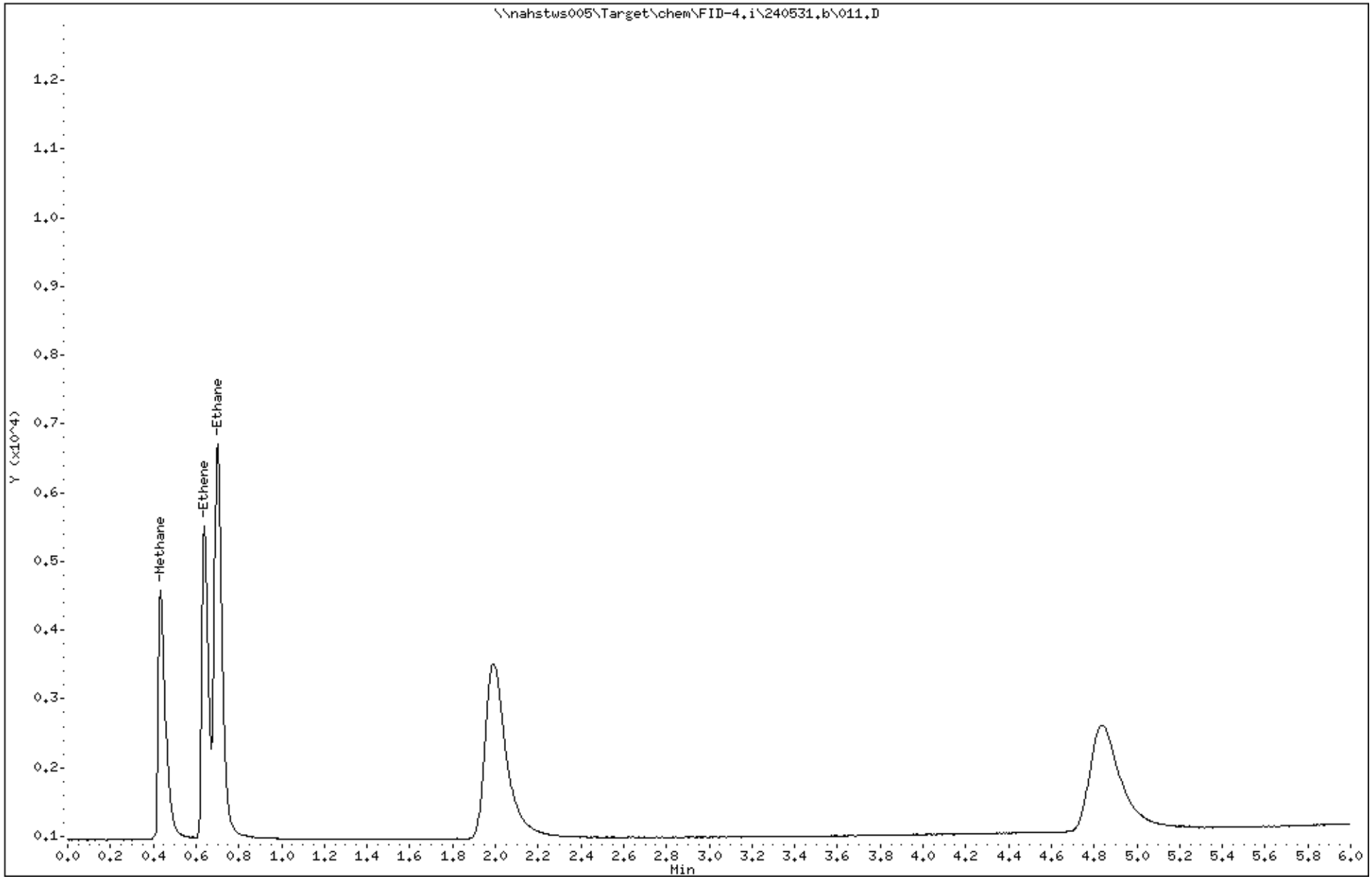
Instrument: FID-4.i

Sample Info: RSK-CCV;RSK-CCV;2;4

Operator: RG

Column phase: Rtx-PLOT

Column diameter: 0.53



Data File : \\nahstws005\Target\chem\FID-4.i\240531.b\011.D
Inj Date : 31-MAY-2024 11:03
InstruID : FID-4.i
LabSampID : RSK-CCV

NO MANUAL INTEGRATIONS

Data File: \\nahstws005\Target\chem\FID-4.i\240531.b\014.D Page 1
Report Date: 31-May-2024 14:44

ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\nahstws005\Target\chem\FID-4.i\240531.b\014.D
Lab Smp Id: HS24051490-07 Client Smp ID: HS24051490-07
Inj Date : 31-MAY-2024 11:32
Operator : RG Inst ID: FID-4.i
Smp Info : HS24051490-07;HS24051490-07
Misc Info : ;1;0;1
Comment :
Method : \\nahstws005\Target\chem\FID-4.i\240531.b\RSKNI3.m
Meth Date : 31-May-2024 12:13 ryan.guthr Quant Type: ESTD
Cal Date : 01-MAR-2024 11:04 Cal File: 008.D
Als bottle: 14
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: RSK175.sub
Target Version: 4.14

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

					CONCENTRATIONS	
					ON-COLUMN	FINAL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(ug/L)	(ug/L)
1 Methane	0.436	0.433	0.003	2095	1.86211	1.862(M)

QC Flag Legend

M - Compound response manually integrated.

Data File: \\nahstws005\Target\chem\FID-4.i\240531.b\014.D

Date : 31-MAY-2024 11:32

Client ID: HS24051490-07

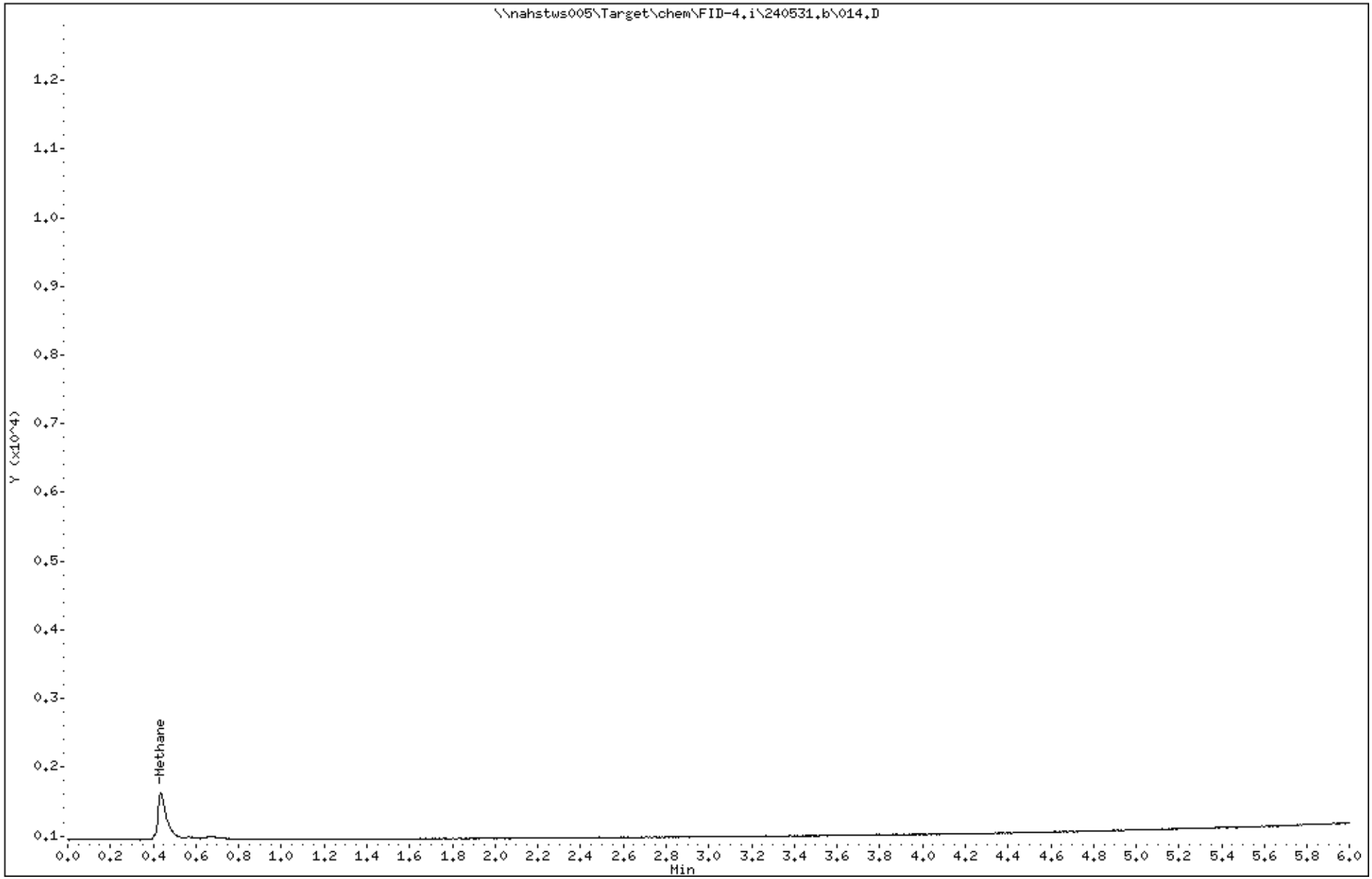
Instrument: FID-4.i

Sample Info: HS24051490-07;HS24051490-07

Operator: RG

Column phase: Rtx-PLOT

Column diameter: 0.53



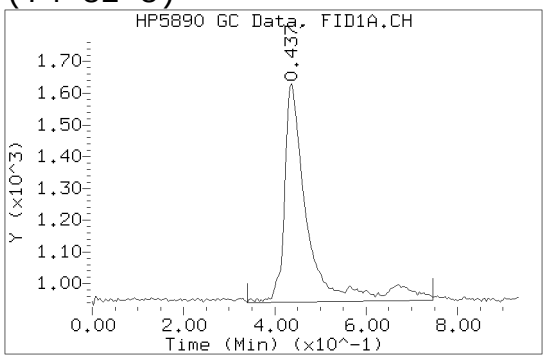
Data File : \\nahstws005\Target\chem\FID-4.i\240531.b\014.D
Inj Date : 31-MAY-2024 11:32
InstruID : FID-4.i
LabSampID : HS24051490-07

Methane (74-82-8)

Reason Code: MIA

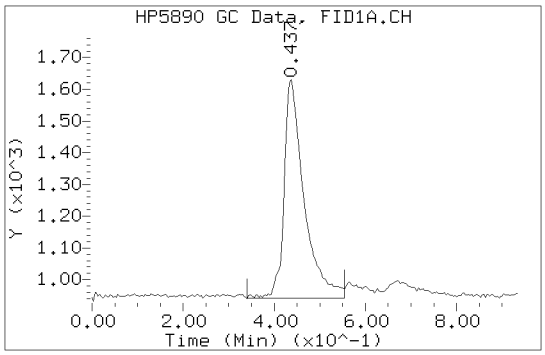
BEFORE

MASS
100
AREA
0
HEIGHT
0
31-May-2024
11:39
ALSHS
Server



AFTER

MASS
100
AREA
2095
HEIGHT
687
31-May-2024
14:44
ALSHS
Server



Data File: \\nahstws005\Target\chem\FID-4.i\240531.b\015.D Page 1
Report Date: 31-May-2024 12:30

ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\nahstws005\Target\chem\FID-4.i\240531.b\015.D
Lab Smp Id: HS24051490-05 Client Smp ID: HS24051490-05
Inj Date : 31-MAY-2024 11:40
Operator : RG Inst ID: FID-4.i
Smp Info : HS24051490-05;HS24051490-05
Misc Info : ;1;0;1
Comment :
Method : \\nahstws005\Target\chem\FID-4.i\240531.b\RSKNI3.m
Meth Date : 31-May-2024 12:13 ryan.guthr Quant Type: ESTD
Cal Date : 01-MAR-2024 11:04 Cal File: 008.D
Als bottle: 15
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: RSK175.sub
Target Version: 4.14
Processing Host: NAHSTW7021

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

					CONCENTRATIONS	
					ON-COLUMN	FINAL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(ug/L)	(ug/L)
1 Methane	0.433	0.433	0.000	4353032	3869.14	3869.138(A)

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\nahstws005\Target\chem\FID-4.i\240531.b\015.D

Page 1

Date : 31-MAY-2024 11:40

Client ID: HS24051490-05

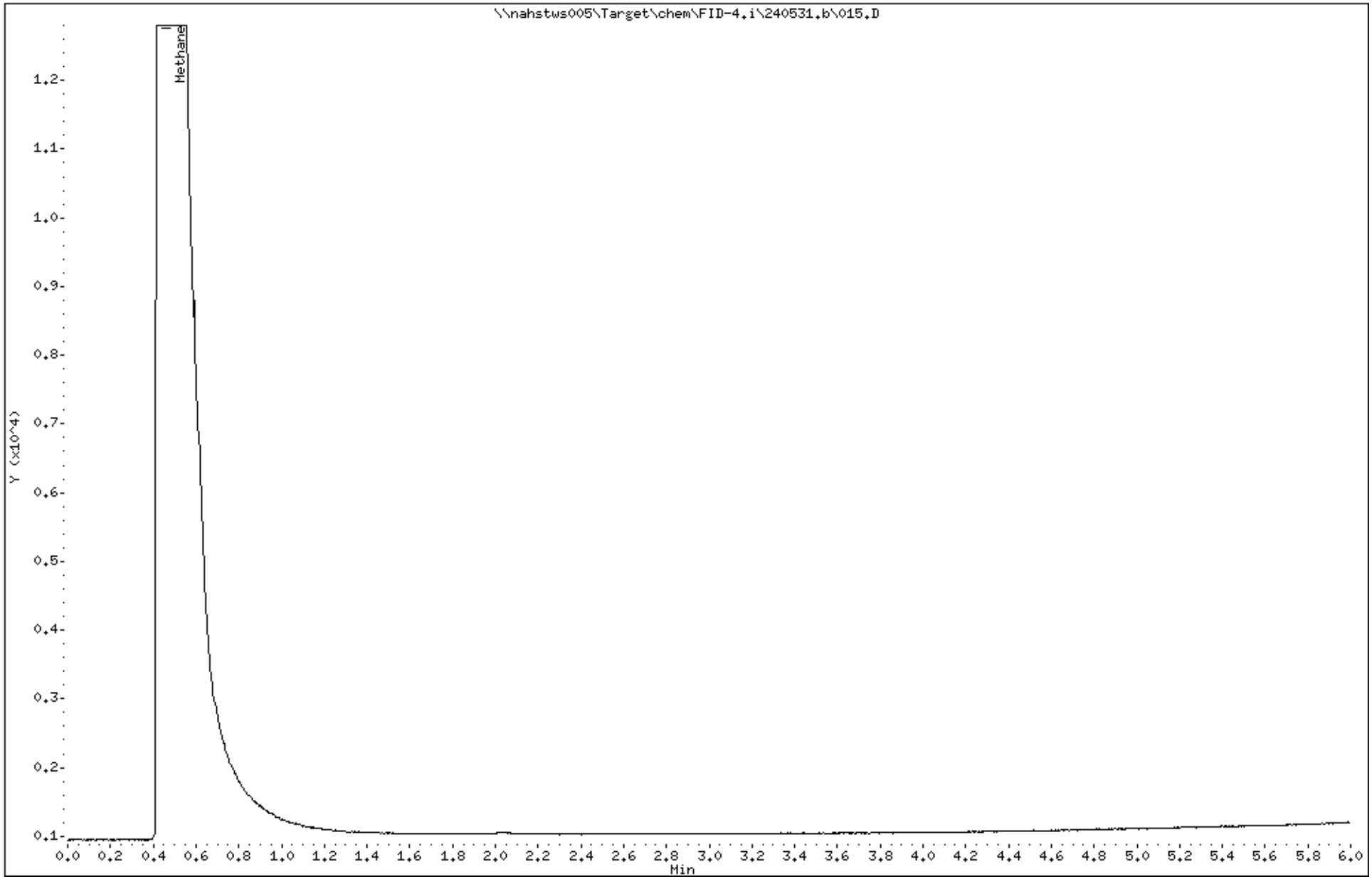
Instrument: FID-4.i

Sample Info: HS24051490-05;HS24051490-05

Operator: RG

Column phase: Rtx-PLOT

Column diameter: 0.53



Data File : \\nahstws005\Target\chem\FID-4.i\240531.b\015.D
Inj Date : 31-MAY-2024 11:40
InstruID : FID-4.i
LabSampID : HS24051490-05

NO MANUAL INTEGRATIONS

Data File: \\nahstws005\Target\chem\FID-4.i\240531.b\016.D Page 1
Report Date: 31-May-2024 14:45

ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\nahstws005\Target\chem\FID-4.i\240531.b\016.D
Lab Smp Id: HS24051490-05 Client Smp ID: HS24051490-05
Inj Date : 31-MAY-2024 11:55
Operator : RG Inst ID: FID-4.i
Smp Info : HS24051490-05;HS24051490-05
Misc Info : ;1;0;200
Comment :
Method : \\nahstws005\Target\chem\FID-4.i\240531.b\RSKNI3.m
Meth Date : 31-May-2024 12:13 ryan.guthr Quant Type: ESTD
Cal Date : 01-MAR-2024 11:04 Cal File: 008.D
Als bottle: 16
Dil Factor: 200.00000
Integrator: Falcon Compound Sublist: RSK175.sub
Target Version: 4.14

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

					CONCENTRATIONS	
					ON-COLUMN	FINAL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(ug/L)	(ug/L)
1 Methane	0.443	0.433	0.010	8120	7.21736	1443.472(M)

QC Flag Legend

M - Compound response manually integrated.

Data File: \\nahstws005\Target\chem\FID-4.i\240531.b\016.D

Page 1

Date : 31-MAY-2024 11:55

Client ID: HS24051490-05

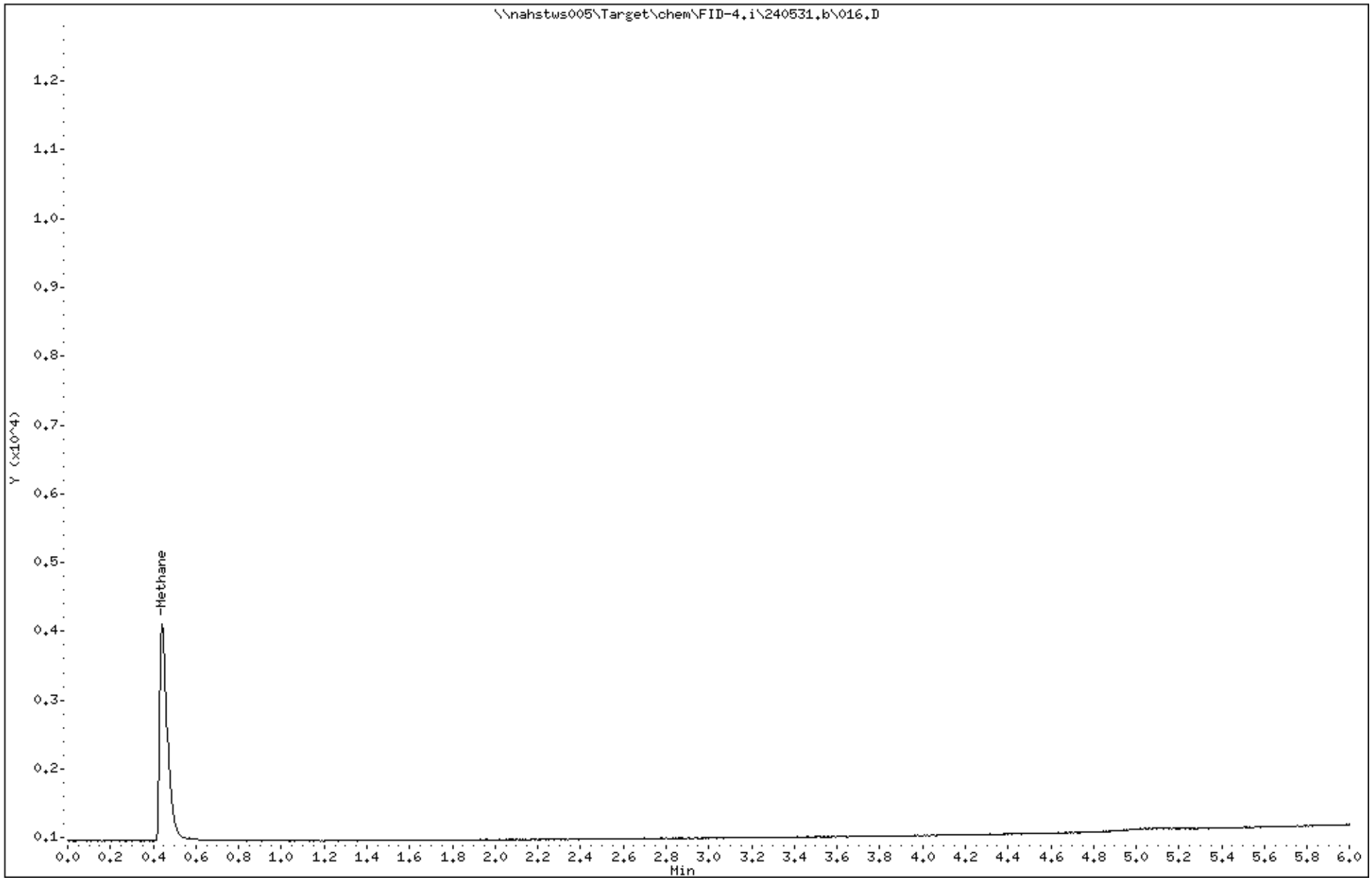
Instrument: FID-4.i

Sample Info: HS24051490-05;HS24051490-05

Operator: RG

Column phase: Rtx-PLOT

Column diameter: 0.53



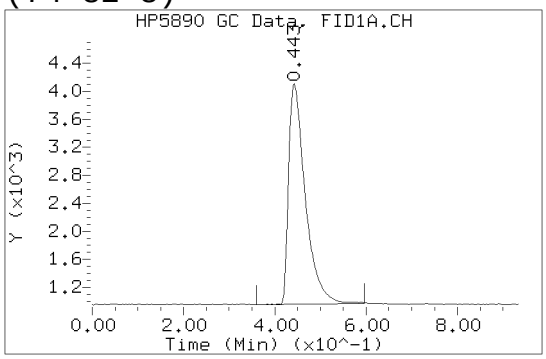
Data File : \\nahstws005\Target\chem\FID-4.i\240531.b\016.D
Inj Date : 31-MAY-2024 11:55
InstruID : FID-4.i
LabSampID : HS24051490-05

Methane (74-82-8)

Reason Code: MIA

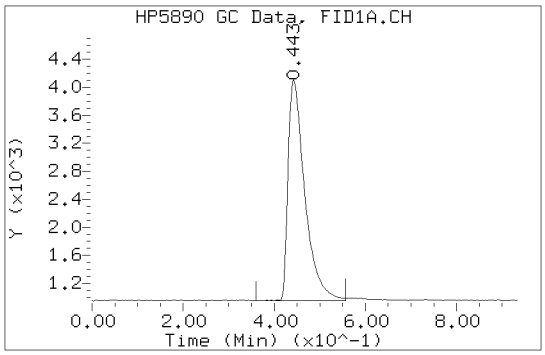
BEFORE

MASS
100
AREA
0
HEIGHT
0
31-May-2024
12:03
ALSHS
Server



AFTER

MASS
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AREA
8120
HEIGHT
3159
31-May-2024
14:45
ALSHS
Server



Data File: \\NAHSTWS005\Target\chem\FID-4.i\240531.b\017.D Page 1
Report Date: 31-May-2024 16:28

ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\NAHSTWS005\Target\chem\FID-4.i\240531.b\017.D
Lab Smp Id: RSK-CCV Client Smp ID: RSK-CCV
Inj Date : 31-MAY-2024 12:04
Operator : RG 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\240531.b\RSKNI3.m
Meth Date : 31-May-2024 12:13 ryan.guthr Quant Type: ESTD
Cal Date : 01-MAR-2024 11:04 Cal File: 008.D
Als bottle: 17 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: RSK175.sub
Target Version: 4.14

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

					AMOUNTS	
					CAL-AMT	ON-COL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(ug/L)	(ug/L)
1 Methane	0.433	0.433	0.000	10469	9.64700	9.305
2 Ethene	0.636	0.636	0.000	10349	16.8500	14.309
3 Ethane	0.700	0.700	0.000	15266	18.0430	15.205(M)

QC Flag Legend

M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\FID-4.i\240531.b\017.D

Date : 31-MAY-2024 12:04

Client ID: RSK-CCV

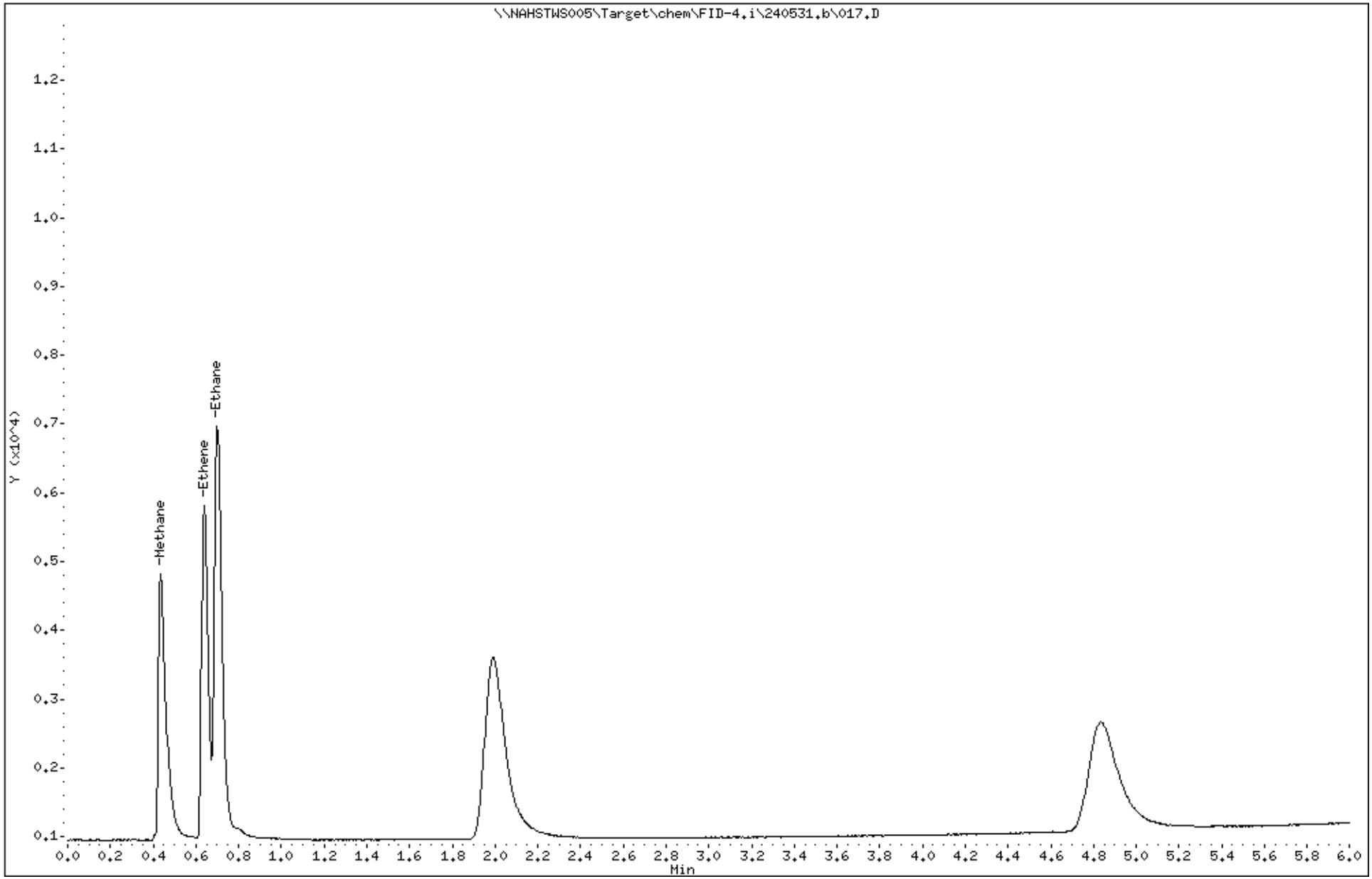
Instrument: FID-4.i

Sample Info: RSK-CCV;RSK-CCV;2;4

Operator: RG

Column phase: Rtx-PLOT

Column diameter: 0.53



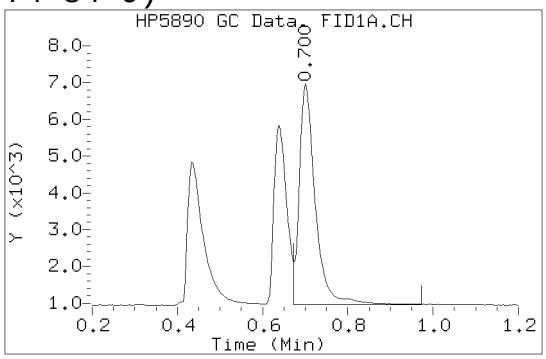
Data File : \\NAHSTWS005\Target\chem\FID-4.i\240531.b\017.D
Inj Date : 31-MAY-2024 12:04
InstruID : FID-4.i
LabSampID : RSK-CCV

Ethane (74-84-0)

Reason Code:

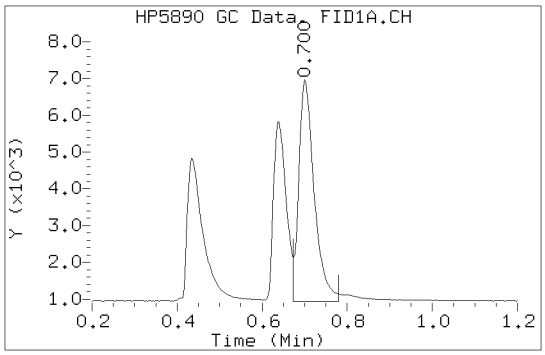
BEFORE

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AREA
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HEIGHT
6002
31-May-2024
12:13
ALSHS
Server



AFTER

MASS
44
AREA
15266
HEIGHT
6030
31-May-2024
16:28
ALSHS
Server



Data File: \\nahstws005\Target\chem\FID-4.i\240603.b\001.D Page 1
Report Date: 03-Jun-2024 08:27

ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\nahstws005\Target\chem\FID-4.i\240603.b\001.D
Lab Smp Id: RSK-CCV Client Smp ID: RSK-CCV
Inj Date : 03-JUN-2024 07:54
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\240603.b\RSKNI2.m
Meth Date : 03-Jun-2024 08:27 ryan.guthr Quant Type: ESTD
Cal Date : 01-MAR-2024 15:48 Cal File: 009.D
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: stdNI2.sub
Target Version: 4.14
Processing Host: NAHSTW7021

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	0.436	0.436	0.000	9740	9.64700	8.657
2 Ethene	0.640	0.640	0.000	9808	16.8500	13.561
3 Ethane	0.700	0.700	0.000	15914	18.0430	15.850
4 Propane	1.990	1.990	0.000	21136	26.4630	22.825
5 N-Butane	4.843	4.843	0.000	22737	34.9550	24.968

Data File: \\nahstws005\Target\chem\FID-4.i\240603.b\001.D

Date : 03-JUN-2024 07:54

Client ID: RSK-CCV

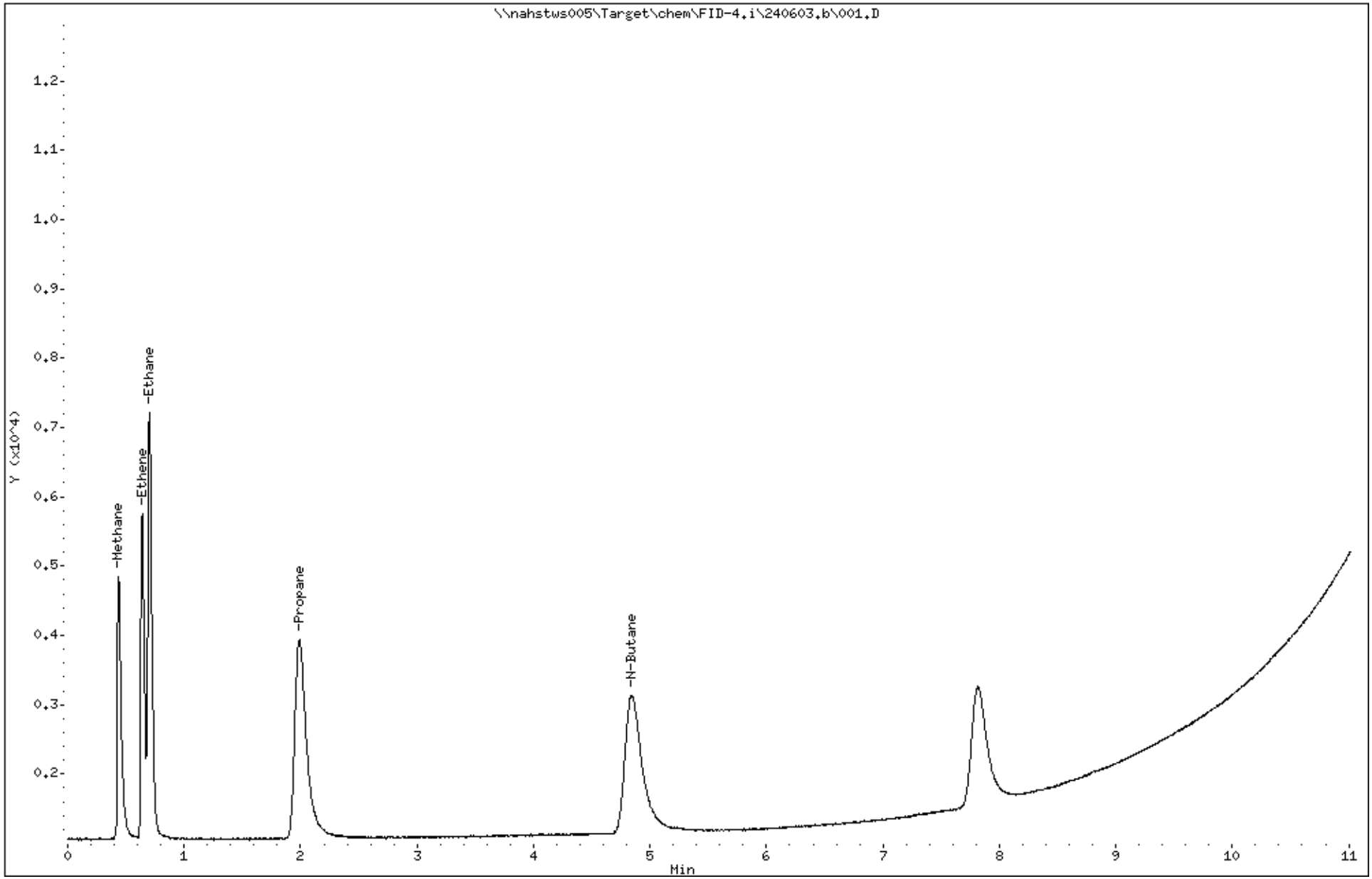
Instrument: FID-4.i

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\240603.b\001.D
Inj Date : 03-JUN-2024 07:54
InstruID : FID-4.i
LabSampID : RSK-CCV

NO MANUAL INTEGRATIONS

Data File: \\nahstws005\Target\chem\FID-4.i\240603.b\002.D Page 1
Report Date: 03-Jun-2024 09:09

ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\nahstws005\Target\chem\FID-4.i\240603.b\002.D
Lab Smp Id: MBLK-240603 Client Smp ID: MBLK-240603
Inj Date : 03-JUN-2024 08:17
Operator : PL Inst ID: FID-4.i
Smp Info : MBLK-240603;MBLK-240603;3;;BLANK
Misc Info : ;1;0;1
Comment :
Method : \\nahstws005\Target\chem\FID-4.i\240603.b\RSKNI2.m
Meth Date : 03-Jun-2024 08:27 ryan.guthr Quant Type: ESTD
Cal Date : 01-MAR-2024 15:48 Cal File: 009.D
Als bottle: 2 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: stdNI2.sub
Target Version: 4.14
Processing Host: NAHSTW7021

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)

Data File: \\nahstws005\Target\chem\FID-4.i\240603.b\002.D

Date : 03-JUN-2024 08:17

Client ID: MBLK-240603

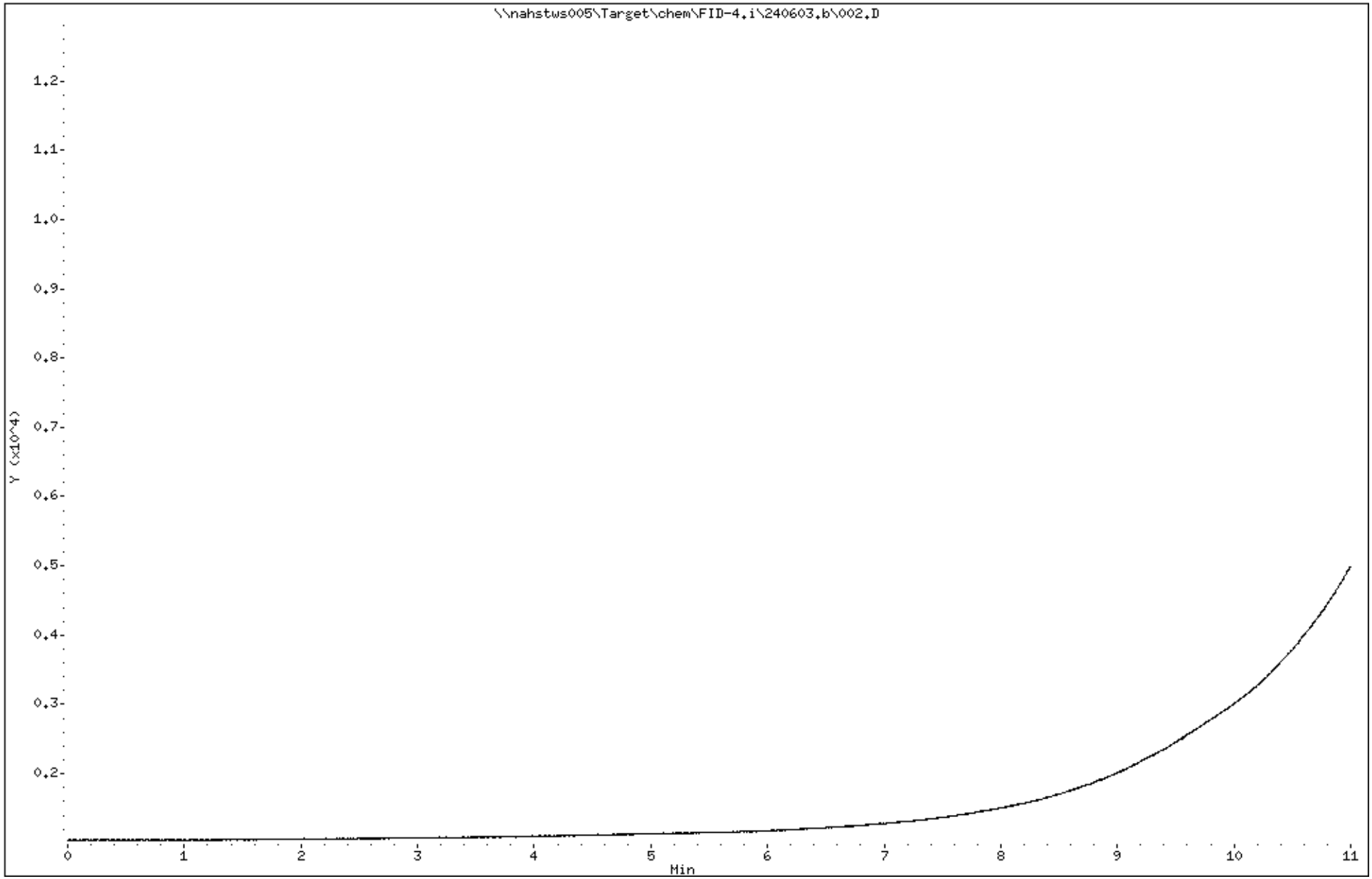
Instrument: FID-4.i

Sample Info: MBLK-240603;MBLK-240603;3;;BLANK

Operator: PL

Column phase: Rtx-PLOT

Column diameter: 0.53



Data File : \\nahstws005\Target\chem\FID-4.i\240603.b\002.D
Inj Date : 03-JUN-2024 08:17
InstruID : FID-4.i
LabSampID : MBLK-240603

NO MANUAL INTEGRATIONS

Data File: \\nahstws005\Target\chem\FID-4.i\240603.b\003.D Page 1
Report Date: 03-Jun-2024 13:07

ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\nahstws005\Target\chem\FID-4.i\240603.b\003.D
Lab Smp Id: LCS-240603 Client Smp ID: LCS-240603
Inj Date : 03-JUN-2024 08:35
Operator : PL Inst ID: FID-4.i
Smp Info : LCS-240603;LCS-240603;3;;LCS
Misc Info : ;1;0;1
Comment :
Method : \\nahstws005\Target\chem\FID-4.i\240603.b\RSKNI2.m
Meth Date : 03-Jun-2024 12:50 ryan.guthr Quant Type: ESTD
Cal Date : 01-MAR-2024 15:48 Cal File: 009.D
Als bottle: 3 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: stdNI2.sub
Target Version: 4.14
Processing Host: NAHSTW7021

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	0.436	-0.003	9493	8.43773	8.437
2 Ethene	0.640	0.640	0.000	9915	13.7094	13.709
3 Ethane	0.700	0.700	0.000	15710	15.6473	15.647
4 Propane	2.006	2.000	0.006	20841	22.5073	22.507
5 N-Butane	4.873	4.853	0.020	21456	23.5614	23.561(R)

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Data File: \\nahstws005\Target\chem\FID-4.i\240603.b\003.D

Date : 03-JUN-2024 08:35

Client ID: LCS-240603

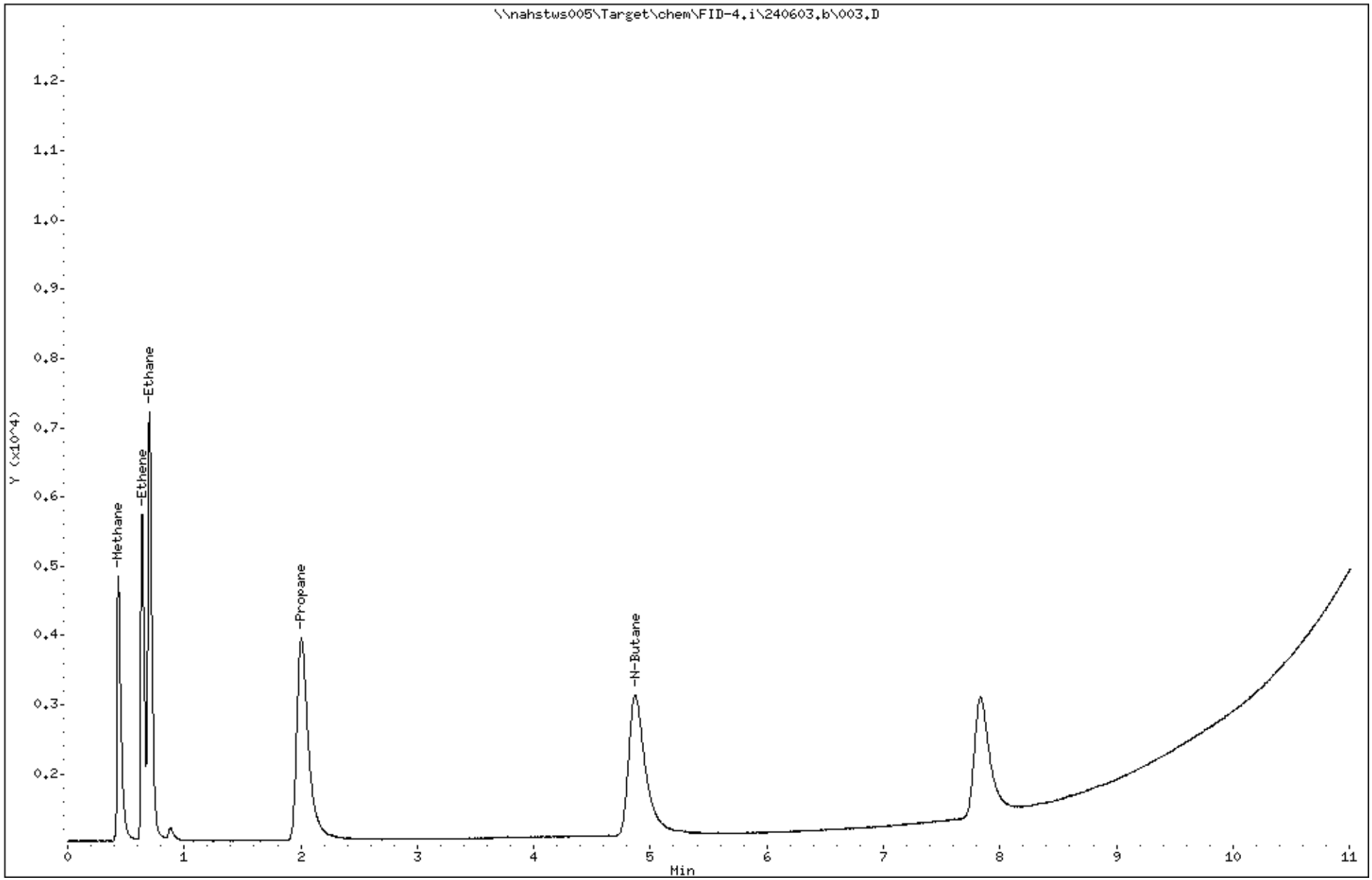
Instrument: FID-4.i

Sample Info: LCS-240603;LCS-240603;3;;LCS

Operator: PL

Column phase: Rtx-PLOT

Column diameter: 0.53



Data File : \\nahstws005\Target\chem\FID-4.i\240603.b\003.D
Inj Date : 03-JUN-2024 08:35
InstruID : FID-4.i
LabSampID : LCS-240603

NO MANUAL INTEGRATIONS

Data File: \\nahstws005\Target\chem\FID-4.i\240603.b\004.D Page 1
Report Date: 03-Jun-2024 09:13

ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\nahstws005\Target\chem\FID-4.i\240603.b\004.D
Lab Smp Id: LCSD-240603 Client Smp ID: LCSD-240603
Inj Date : 03-JUN-2024 08:53
Operator : PL Inst ID: FID-4.i
Smp Info : LCSD-240603;LCSD-240603;3;;LCSD
Misc Info : ;1;0;1
Comment :
Method : \\nahstws005\Target\chem\FID-4.i\240603.b\RSKNI2.m
Meth Date : 03-Jun-2024 08:27 ryan.guthr Quant Type: ESTD
Cal Date : 01-MAR-2024 15:48 Cal File: 009.D
Als bottle: 4 QC Sample: LCSD
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: stdNI2.sub
Target Version: 4.14
Processing Host: NAHSTW7021

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

					CONCENTRATIONS	
					ON-COLUMN	FINAL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(ug/L)	(ug/L)
1 Methane	0.420	0.436	-0.016	9584	8.51862	8.518
2 Ethene	0.626	0.640	-0.014	9781	13.5242	13.524
3 Ethane	0.690	0.700	-0.010	15335	15.2738	15.273
4 Propane	1.996	1.990	0.006	20709	22.3647	22.364
5 N-Butane	4.866	4.843	0.023	21558	23.6734	23.673(R)

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Data File: \\nahstws005\Target\chem\FID-4.i\240603.b\004.D

Date : 03-JUN-2024 08:53

Client ID: LCSD-240603

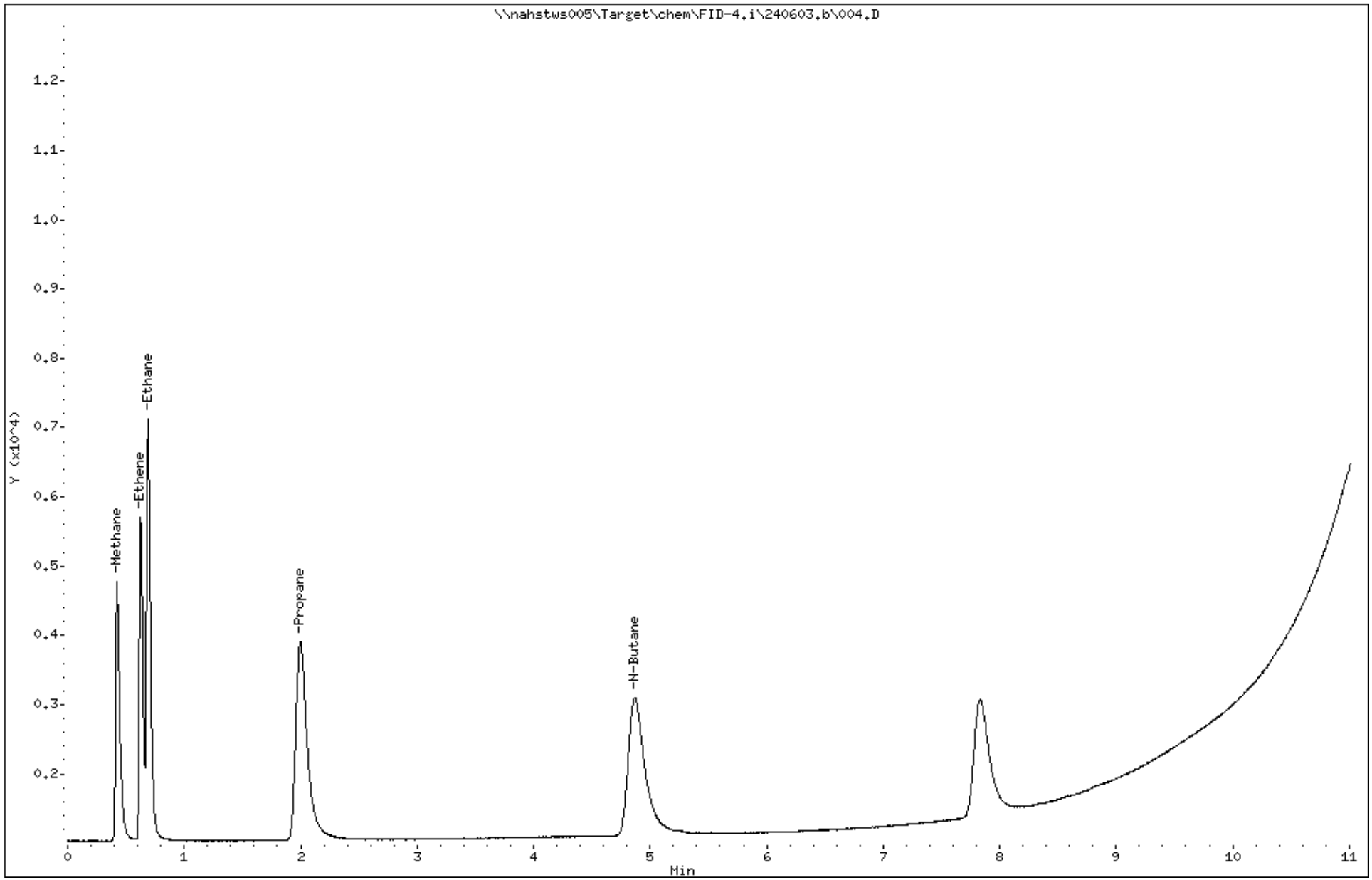
Instrument: FID-4.i

Sample Info: LCSD-240603;LCSD-240603;3;;LCSD

Operator: PL

Column phase: Rtx-PLOT

Column diameter: 0.53



Data File : \\nahstws005\Target\chem\FID-4.i\240603.b\004.D
Inj Date : 03-JUN-2024 08:53
InstruID : FID-4.i
LabSampID : LCSD-240603

NO MANUAL INTEGRATIONS

Data File: \\nahstws005\Target\chem\FID-4.i\240603.b\011.D Page 1
Report Date: 04-Jun-2024 15:40

ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\nahstws005\Target\chem\FID-4.i\240603.b\011.D
Lab Smp Id: RSK-CCV Client Smp ID: RSK-CCV
Inj Date : 03-JUN-2024 12:07
Operator : RG 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\240603.b\RSKNI2.m
Meth Date : 03-Jun-2024 15:34 ryan.guthr Quant Type: ESTD
Cal Date : 01-MAR-2024 15:48 Cal File: 009.D
Als bottle: 11 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: stdNI2.sub
Target Version: 4.14
Processing Host: NAHSTW7021

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

					AMOUNTS	
					CAL-AMT	ON-COL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(ug/L)	(ug/L)
1 Methane	0.436	0.430	0.006	10319	9.64700	9.171
2 Ethene	0.640	0.636	0.004	9776	16.8500	13.517
3 Ethane	0.700	0.700	0.000	15336	18.0430	15.274(M)
4 Propane	2.000	2.003	-0.003	24310	26.4630	26.253
5 N-Butane	4.853	4.863	-0.010	17642	34.9550	19.373

QC Flag Legend

M - Compound response manually integrated.

Data File: \\nahstws005\Target\chem\FID-4.i\240603.b\011.D

Date : 03-JUN-2024 12:07

Client ID: RSK-CCV

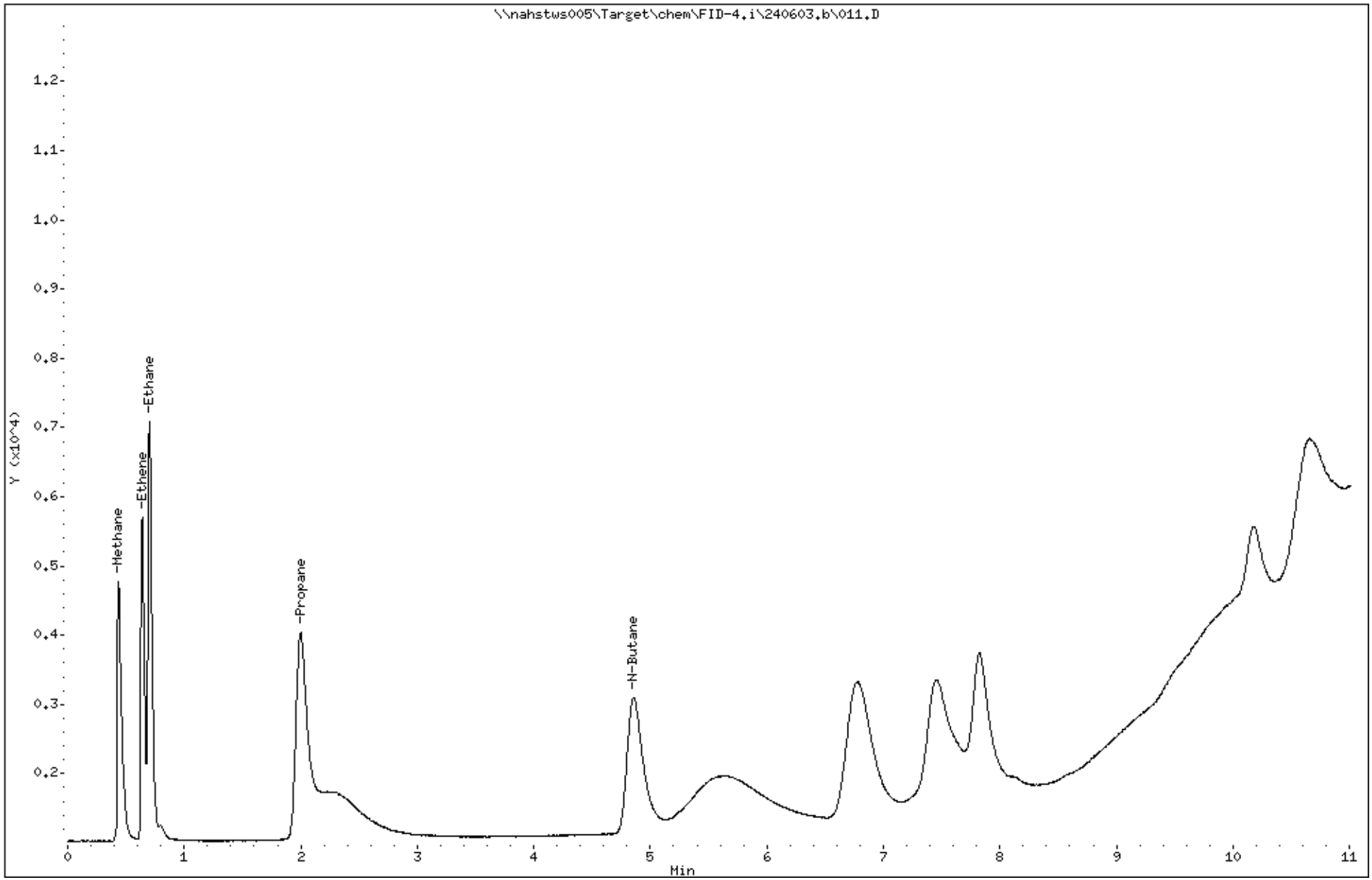
Instrument: FID-4.i

Sample Info: RSK-CCV;RSK-CCV;2;4

Operator: RG

Column phase: Rtx-PLOT

Column diameter: 0.53



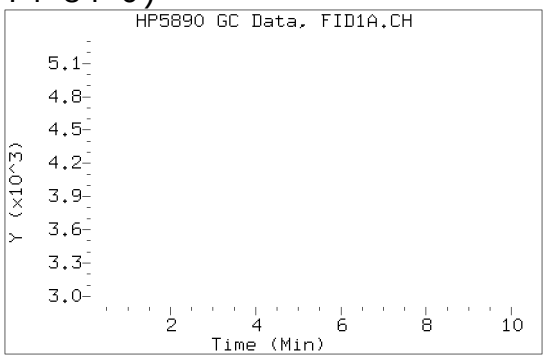
Data File : \\nahstws005\Target\chem\FID-4.i\240603.b\011.D
Inj Date : 03-JUN-2024 12:07
InstruID : FID-4.i
LabSampID : RSK-CCV

Ethane (74-84-0)

Reason Code: MUP

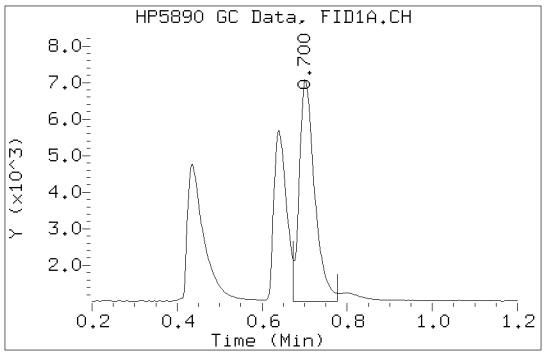
BEFORE

MASS
100
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HEIGHT
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03-Jun-2024
12:01
ALSHS
Server



AFTER

MASS
44
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HEIGHT
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04-Jun-2024
15:40
ALSHS
Server



Data File: \\nahstws005\Target\chem\FID-4.i\240603.b\020.D Page 1
Report Date: 03-Jun-2024 15:23

ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\nahstws005\Target\chem\FID-4.i\240603.b\020.D
Lab Smp Id: HS24051490-04 Client Smp ID: HS24051490-04
Inj Date : 03-JUN-2024 15:04
Operator : RG Inst ID: FID-4.i
Smp Info : HS24051490-04;HS24051490-04
Misc Info : ;1;0;1
Comment :
Method : \\nahstws005\Target\chem\FID-4.i\240603.b\RSKNI2.m
Meth Date : 03-Jun-2024 12:50 ryan.guthr Quant Type: ESTD
Cal Date : 01-MAR-2024 15:48 Cal File: 009.D
Als bottle: 20
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: stdNI2.sub
Target Version: 4.14
Processing Host: NAHSTW7021

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	0.433	0.436	-0.003	3835229	3408.90	3408.895(A)
4 Propane	2.053	2.000	0.053	329	0.35530	0.355(a)
5 N-Butane	4.840	4.853	-0.013	123	0.13507	0.135(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.

Data File: \\nahstws005\Target\chem\FID-4.i\240603.b\020.D

Date : 03-JUN-2024 15:04

Client ID: HS24051490-04

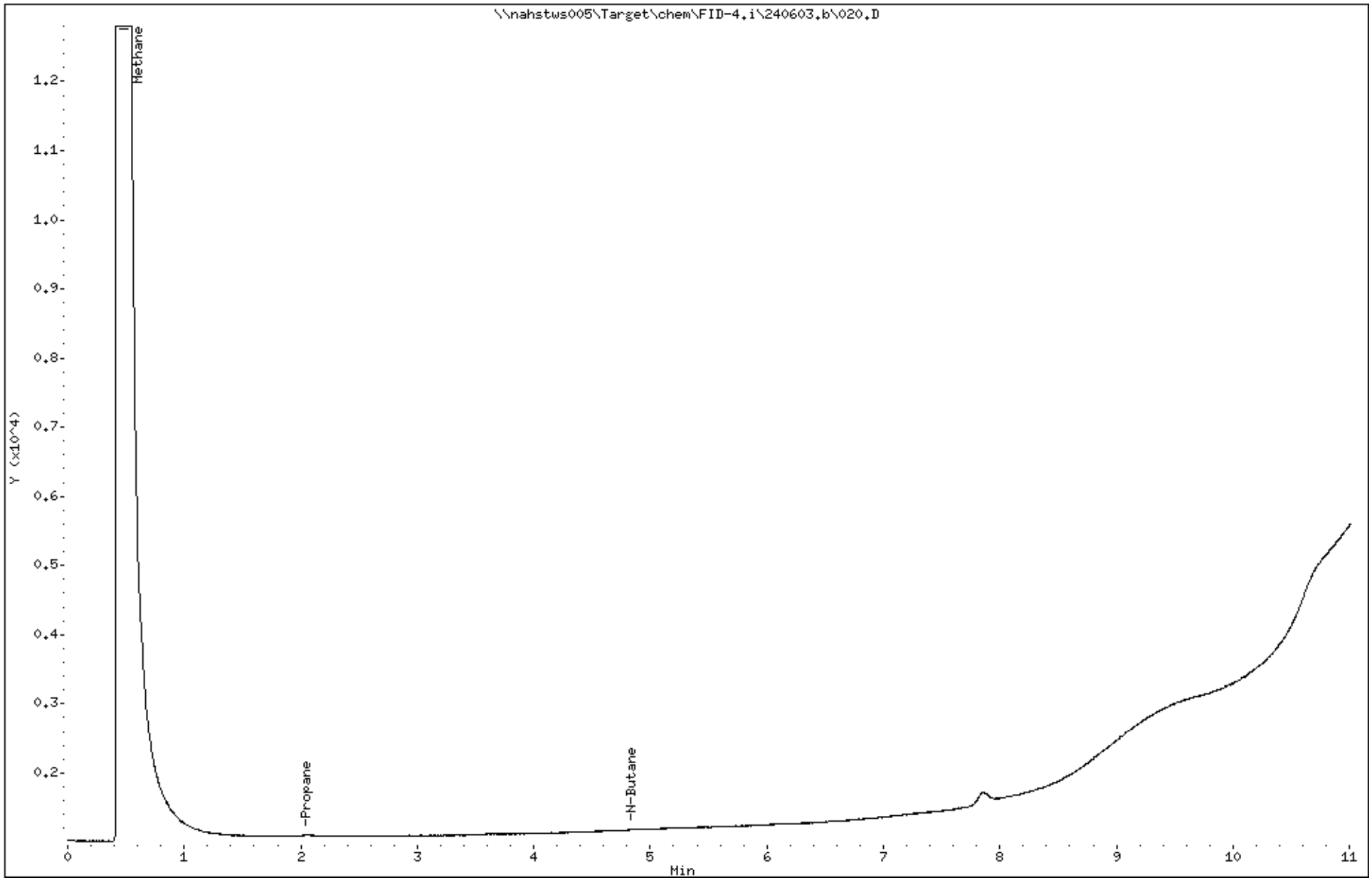
Instrument: FID-4.i

Sample Info: HS24051490-04;HS24051490-04

Operator: RG

Column phase: Rtx-PLOT

Column diameter: 0.53



Data File : \\nahstws005\Target\chem\FID-4.i\240603.b\020.D
Inj Date : 03-JUN-2024 15:04
InstruID : FID-4.i
LabSampID : HS24051490-04

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\FID-4.i\240603.b\021.D Page 1
Report Date: 05-Jun-2024 09:43

ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\NAHSTWS005\Target\chem\FID-4.i\240603.b\021.D
Lab Smp Id: RSK-CCV Client Smp ID: RSK-CCV
Inj Date : 03-JUN-2024 15:19
Operator : RG 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\240603.b\RSKNI2.m
Meth Date : 03-Jun-2024 15:34 ryan.guthr Quant Type: ESTD
Cal Date : 01-MAR-2024 15:48 Cal File: 009.D
Als bottle: 21 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: stdNI2.sub
Target Version: 4.14
Processing Host: NAHSTW7021

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

					AMOUNTS	
					CAL-AMT	ON-COL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(ug/L)	(ug/L)
1 Methane	0.430	0.430	0.000	10817	9.64700	9.614(M)
2 Ethene	0.636	0.636	0.000	10318	16.8500	14.266(M)
3 Ethane	0.700	0.700	0.000	16336	18.0430	16.270(M)
4 Propane	2.003	2.003	0.000	21352	26.4630	23.059
5 N-Butane	4.863	4.863	0.000	21219	34.9550	23.301

QC Flag Legend

M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\FID-4.i\240603.b\021.D

Date : 03-JUN-2024 15:19

Client ID: RSK-CCV

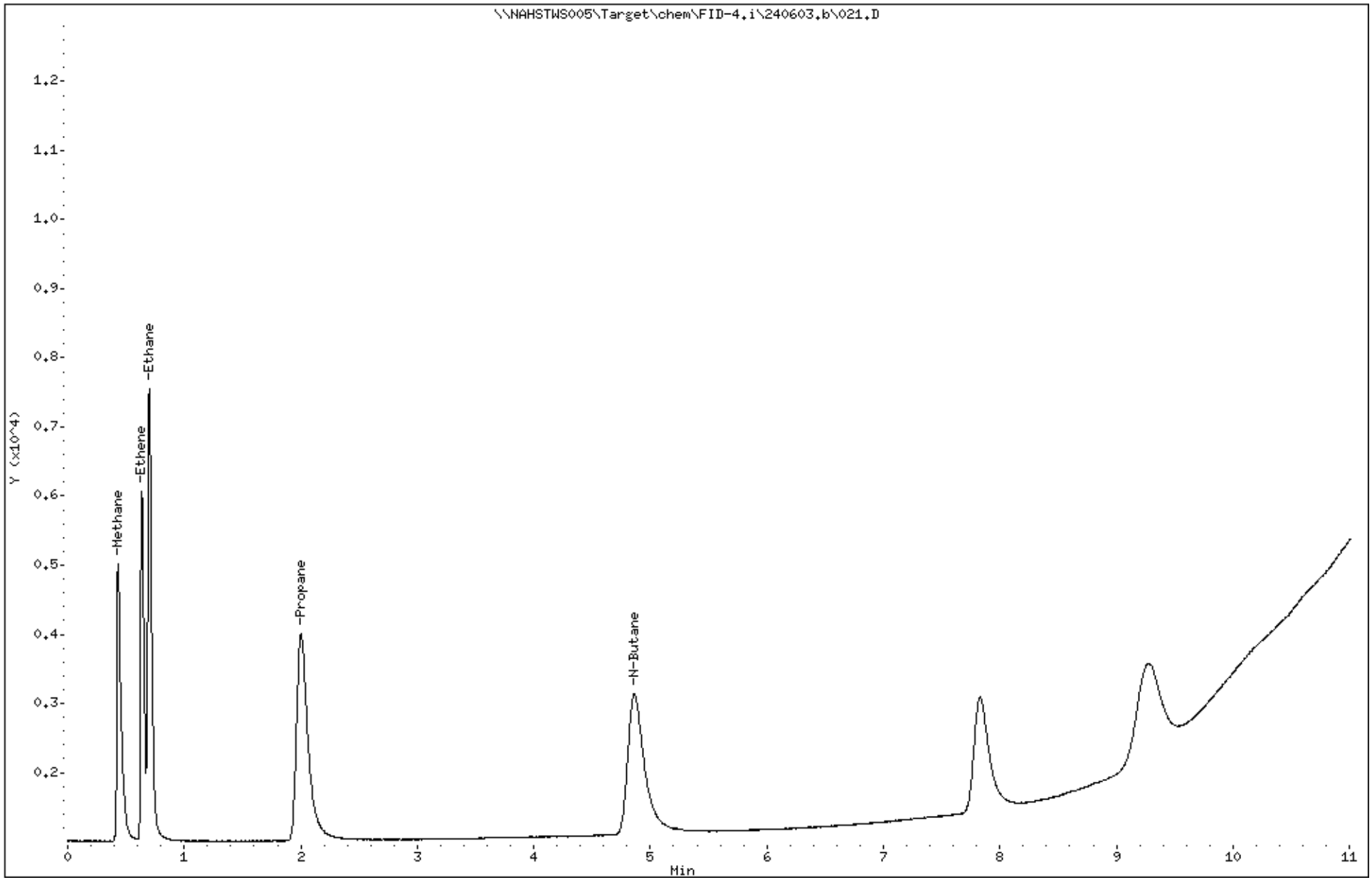
Instrument: FID-4.i

Sample Info: RSK-CCV;RSK-CCV;2;4

Operator: RG

Column phase: Rtx-PLOT

Column diameter: 0.53



Data File : \\NAHSTWS005\Target\chem\FID-4.i\240603.b\021.D
Inj Date : 03-JUN-2024 15:19
InstruID : FID-4.i
LabSampID : RSK-CCV

right solutions.
right partner.

RawData

<textMethods>

Workorder

HS24051490

Client

Bhate Environmental Associates, Inc.

Project

LHAAP-50

06/24/2024

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\240604.b\01.D Page 1
Report Date: 04-Jun-2024 14:59

ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\nahstws005\Target\chem\FID-4.i\240604.b\01.D
Lab Smp Id: RSK-CCV Client Smp ID: RSK-CCV
Inj Date : 04-JUN-2024 08:39
Operator : RG Inst ID: FID-4.i
Smp Info : RSK-CCV;RSK-CCV;2;4
Misc Info : ;1;0;50
Comment :
Method : \\nahstws005\Target\chem\FID-4.i\240604.b\RSKNI3.m
Meth Date : 04-Jun-2024 14:39 ryan.guthr Quant Type: ESTD
Cal Date : 01-MAR-2024 11:04 Cal File: 008.D
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 50.00000
Integrator: Falcon Compound Sublist: RSK175.sub
Target Version: 4.14
Processing Host: NAHSTW7021

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

					AMOUNTS	
					CAL-AMT	ON-COL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(ug/L)	(ug/L)
1 Methane	0.433	0.436	-0.003	10452	9.64700	9.290
2 Ethene	0.640	0.640	0.000	10226	16.8500	14.139
3 Ethane	0.700	0.703	-0.003	16629	18.0430	16.562(M)

QC Flag Legend

M - Compound response manually integrated.

Data File: \\nahstws005\Target\chem\FID-4.i\240604.b\01.D

Date : 04-JUN-2024 08:39

Client ID: RSK-CCV

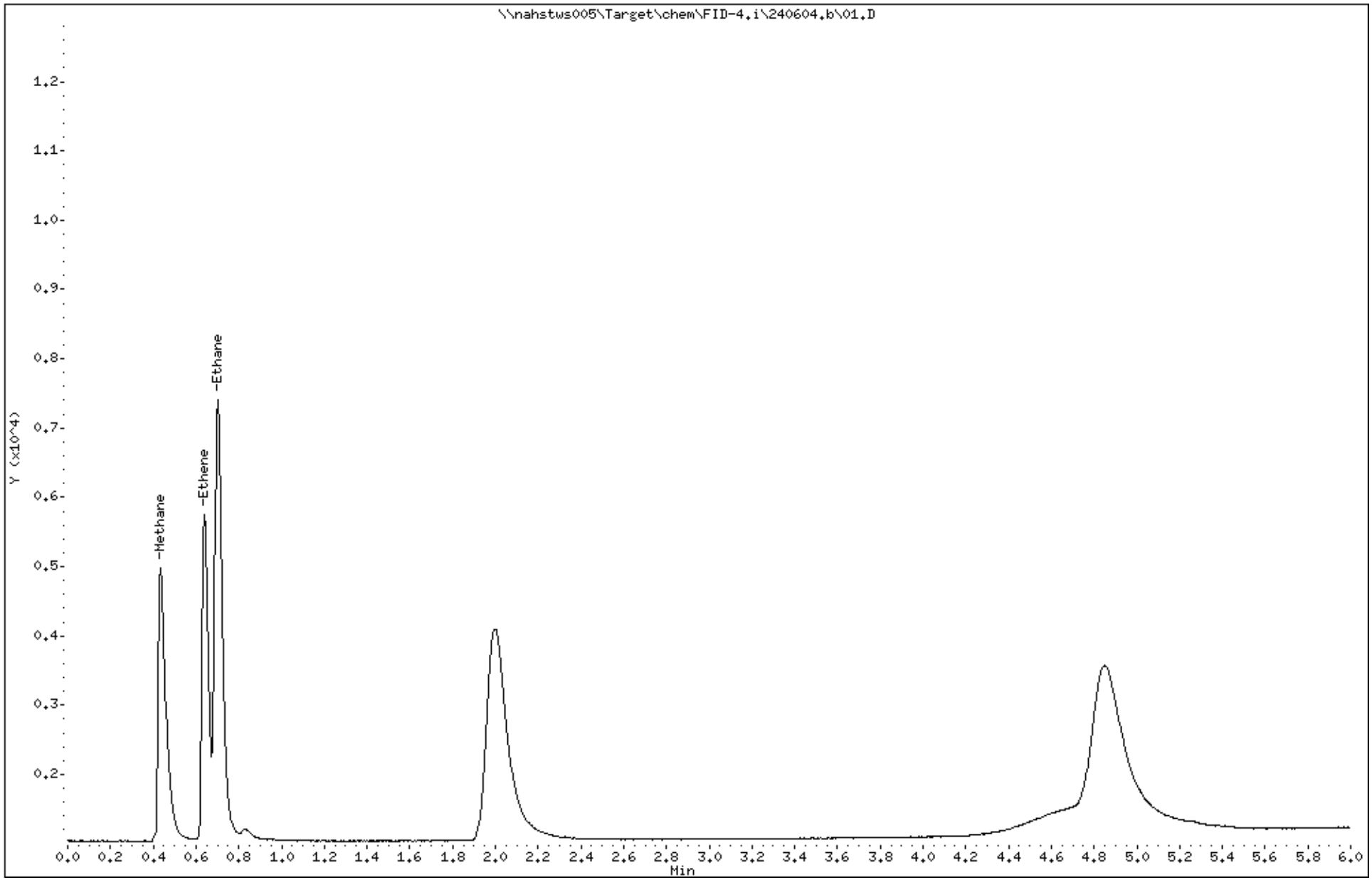
Instrument: FID-4.i

Sample Info: RSK-CCV;RSK-CCV;2;4

Operator: RG

Column phase: Rtx-PLOT

Column diameter: 0.53



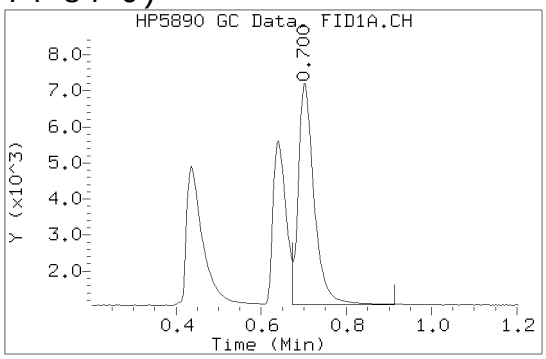
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Inj Date : 04-JUN-2024 08:39
InstruID : FID-4.i
LabSampID : RSK-CCV

Ethane (74-84-0)

Reason Code: MUP

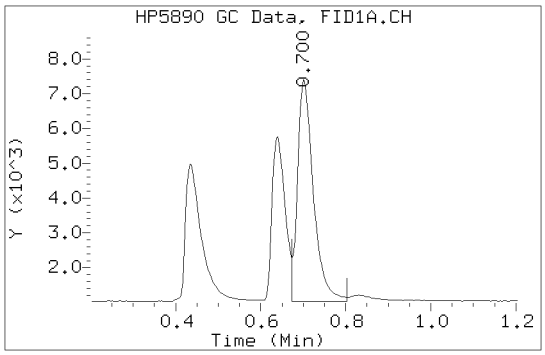
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04-Jun-2024
08:30
ALSHS
Server



AFTER

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AREA
16629
HEIGHT
6365
04-Jun-2024
14:59
ALSHS
Server



Data File: \\nahstws005\Target\chem\FID-4.i\240604.b\06.D Page 1
Report Date: 04-Jun-2024 15:01

ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\nahstws005\Target\chem\FID-4.i\240604.b\06.D
Lab Smp Id: HS24051490-04 Client Smp ID: HS24051490-04
Inj Date : 04-JUN-2024 09:36
Operator : RG Inst ID: FID-4.i
Smp Info : HS24051490-04;HS24051490-04
Misc Info : ;1;0;200
Comment :
Method : \\nahstws005\Target\chem\FID-4.i\240604.b\RSKNI3.m
Meth Date : 04-Jun-2024 14:39 ryan.guthr Quant Type: ESTD
Cal Date : 01-MAR-2024 11:04 Cal File: 008.D
Als bottle: 6
Dil Factor: 200.00000
Integrator: Falcon Compound Sublist: RSK175.sub
Target Version: 4.14
Processing Host: NAHSTW7021

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

					CONCENTRATIONS	
					ON-COLUMN	FINAL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(ug/L)	(ug/L)
1 Methane	0.436	0.436	0.000	24304	21.6023	4320.461(M)

QC Flag Legend

M - Compound response manually integrated.

Data File: \\nahstws005\Target\chem\FID-4.i\240604.b\06.D

Date : 04-JUN-2024 09:36

Client ID: HS24051490-04

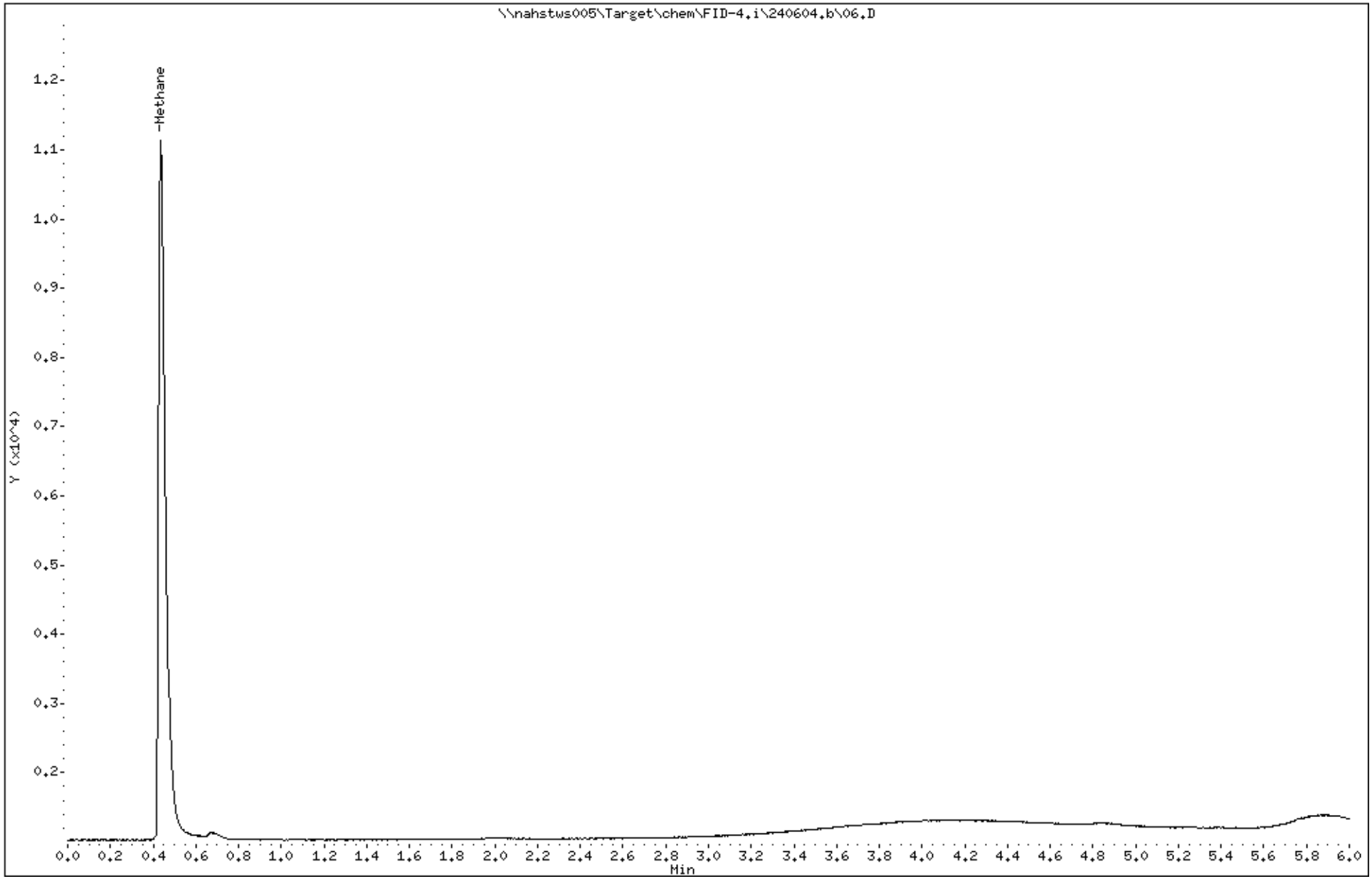
Instrument: FID-4.i

Sample Info: HS24051490-04;HS24051490-04

Operator: RG

Column phase: Rtx-PLOT

Column diameter: 0.53



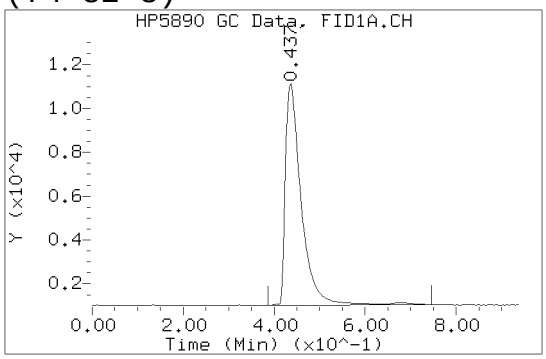
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Inj Date : 04-JUN-2024 09:36
InstruID : FID-4.i
LabSampID : HS24051490-04

Methane (74-82-8)

Reason Code: MUP

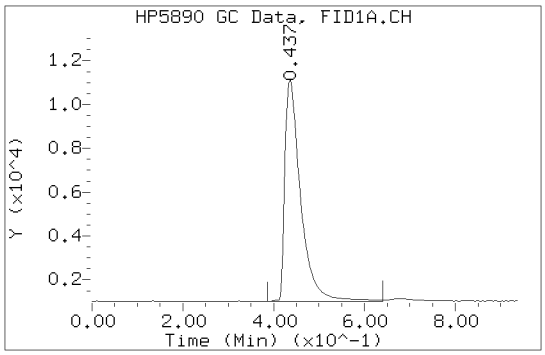
BEFORE

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04-Jun-2024
09:44
ALSHS
Server



AFTER

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AREA
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HEIGHT
10106
04-Jun-2024
15:01
ALSHS
Server



Data File: \\nahstws005\Target\chem\FID-4.i\240604.b\11.D Page 1
Report Date: 04-Jun-2024 15:15

ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\nahstws005\Target\chem\FID-4.i\240604.b\11.D
Lab Smp Id: RSK-CCV Client Smp ID: RSK-CCV
Inj Date : 04-JUN-2024 10:23
Operator : RG 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\240604.b\RSKNI3.m
Meth Date : 04-Jun-2024 14:39 ryan.guthr Quant Type: ESTD
Cal Date : 01-MAR-2024 11:04 Cal File: 008.D
Als bottle: 11 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: RSK175.sub
Target Version: 4.14
Processing Host: NAHSTW7021

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

					AMOUNTS	
					CAL-AMT	ON-COL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(ug/L)	(ug/L)
1 Methane	0.436	0.436	0.000	9924	9.64700	8.820
2 Ethene	0.640	0.640	0.000	10362	16.8500	14.327
3 Ethane	0.703	0.703	0.000	16500	18.0430	16.434

Data File: \\nahstws005\Target\chem\FID-4.i\240604.b\11.D

Date : 04-JUN-2024 10:23

Client ID: RSK-CCV

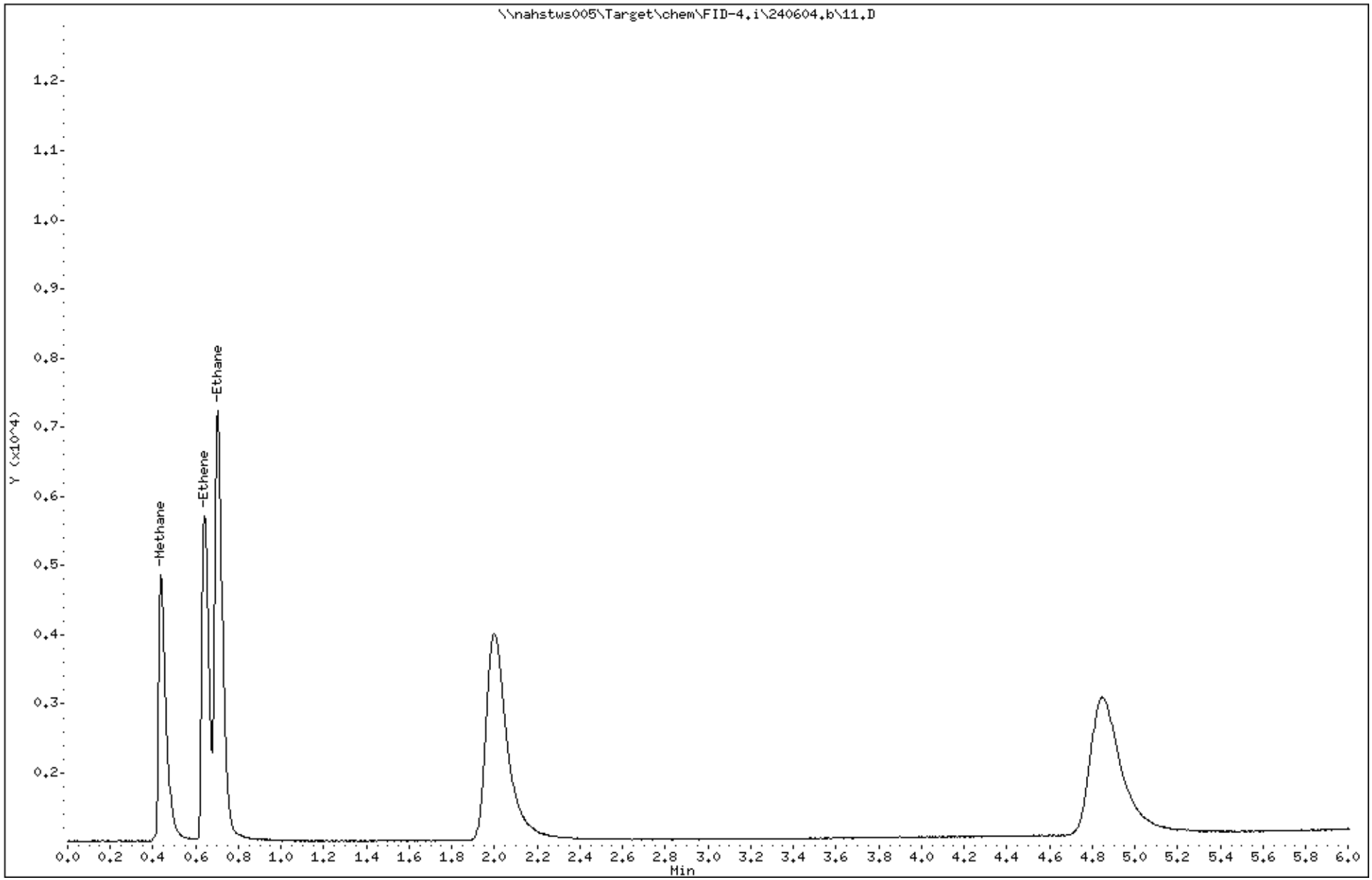
Instrument: FID-4.i

Sample Info: RSK-CCV;RSK-CCV;2;4

Operator: RG

Column phase: Rtx-PLOT

Column diameter: 0.53



Data File : \\nahstws005\Target\chem\FID-4.i\240604.b\11.D
Inj Date : 04-JUN-2024 10:23
InstruID : FID-4.i
LabSampID : RSK-CCV

NO MANUAL INTEGRATIONS

HS24051490 Wetchem 9056_anions_W

ALS WO# HS24051490

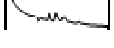
Sequence: 052424
Last Update Operator: ALSHS.NoUser

CD	Name	Comment	Type	Position	Dilution	Level	Instrument Method
	STD1		Calibratio	RC1	1.00	1	Anions Program ISO37mM 150mm short 0.4 Constant current
	STD2		Calibratio	RC3	1.00	2	Anions Program ISO37mM 150mm short 0.4 Constant current
	STD3		Calibratio	RC4	1.00	3	Anions Program ISO37mM 150mm short 0.4 Constant current
	STD4		Calibratio	RC5	1.00	4	Anions Program ISO37mM 150mm short 0.4 Constant current
	STD5		Calibratio	RC6	1.00	5	Anions Program ISO37mM 150mm short 0.4 Constant current
	STD6		Calibratio	RC7	1.00	6	Anions Program ISO37mM 150mm short 0.4 Constant current
	ICV		Unknown	RC8	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	ICB		Unknown	B8	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	CCV1		Unknown	R3	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	CCB		Unknown	R8	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	MBLK	9056-W-SH	Unknown	R5	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	LCS		Unknown	R2	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24051535-01MSDF10		Unknown	RE5	10.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24051535-01MSDDF		Unknown	RE6	10.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	CCV		Unknown	R1	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	CCB		Unknown	R4	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	CCV1		Unknown	R3	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	CCB		Unknown	R7	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24051490-04	9056-W-SH	Unknown	GC1	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24051490-04DF20	9056-W-SH	Unknown	GC2	20.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24051490-05DF2	9056-W-SH	Unknown	GC3	2.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24051490-05DF50	9056-W-SH	Unknown	GC4	50.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	CCV		Unknown	R1	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	CCB		Unknown	R6	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24051490-06	9056-W-SH	Unknown	GC5	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24051490-07	9056-W-SH	Unknown	GC6	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	CCV1		Unknown	R3	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	CCB		Unknown	R7	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current

Sequence: 052424
Last Update Operator: ALSHS.NoUser

CD	Name	Comment	Type	Position	Dilution	Level	Instrument Method

Sequence: 052424
Last Update Operator: ALSHS.NoUser

Processing Method	CD	Name	me	Status	Inject Time
Anions Processing Method ISO		STD1	5.0	Finished	5/24/2024 3:05:55 PM -0
Anions Processing Method ISO		STD2	5.0	Finished	5/24/2024 3:11:46 PM -0
Anions Processing Method ISO		STD3	5.0	Finished	5/24/2024 3:17:37 PM -0
Anions Processing Method ISO		STD4	5.0	Finished	5/24/2024 3:23:27 PM -0
Anions Processing Method ISO		STD5	5.0	Finished	5/24/2024 3:29:18 PM -0
Anions Processing Method ISO		STD6	5.0	Finished	5/24/2024 3:35:09 PM -0
Anions Processing Method ISO		ICV	5.0	Finished	5/24/2024 3:41:00 PM -0
Anions Processing Method ISO		ICB	5.0	Finished	5/24/2024 3:58:32 PM -0
Anions Processing Method ISO		CCV1	5.0	Finished	5/24/2024 8:27:01 PM -0
Anions Processing Method ISO		CCB	5.0	Finished	5/24/2024 8:44:33 PM -0
Anions Processing Method ISO		MBLK	5.0	Finished	5/24/2024 9:13:46 PM -0
Anions Processing Method ISO		LCS	5.0	Finished	5/24/2024 9:19:36 PM -0
Anions Processing Method ISO		HS24051535-01MSDF10	5.0	Finished	5/24/2024 9:37:08 PM -0
Anions Processing Method ISO		HS24051535-01MSDDF	5.0	Finished	5/24/2024 9:42:58 PM -0
Anions Processing Method ISO		CCV	5.0	Finished	5/24/2024 10:06:20 PM -
Anions Processing Method ISO		CCB	5.0	Finished	5/24/2024 10:12:11 PM -
Anions Processing Method ISO		CCV1	5.0	Finished	5/24/2024 11:28:28 PM -
Anions Processing Method ISO		CCB	5.0	Finished	5/24/2024 11:34:19 PM -
Anions Processing Method ISO		HS24051490-04	5.0	Finished	5/25/2024 12:21:01 AM -
Anions Processing Method ISO		HS24051490-04DF20	5.0	Finished	5/25/2024 12:26:51 AM -
Anions Processing Method ISO		HS24051490-05DF2	5.0	Finished	5/25/2024 12:32:42 AM -
Anions Processing Method ISO		HS24051490-05DF50	5.0	Finished	5/25/2024 12:38:32 AM -
Anions Processing Method ISO		CCV	5.0	Finished	5/25/2024 12:50:13 AM -
Anions Processing Method ISO		CCB	5.0	Finished	5/25/2024 1:01:53 AM -0
Anions Processing Method ISO		HS24051490-06	5.0	Finished	5/25/2024 1:07:43 AM -0
Anions Processing Method ISO		HS24051490-07	5.0	Finished	5/25/2024 1:13:34 AM -0
Anions Processing Method ISO		CCV1	5.0	Finished	5/25/2024 2:06:05 AM -0
Anions Processing Method ISO		CCB	5.0	Finished	5/25/2024 2:17:46 AM -0

Sequence: 052424
Last Update Operator: ALSHS.NoUser

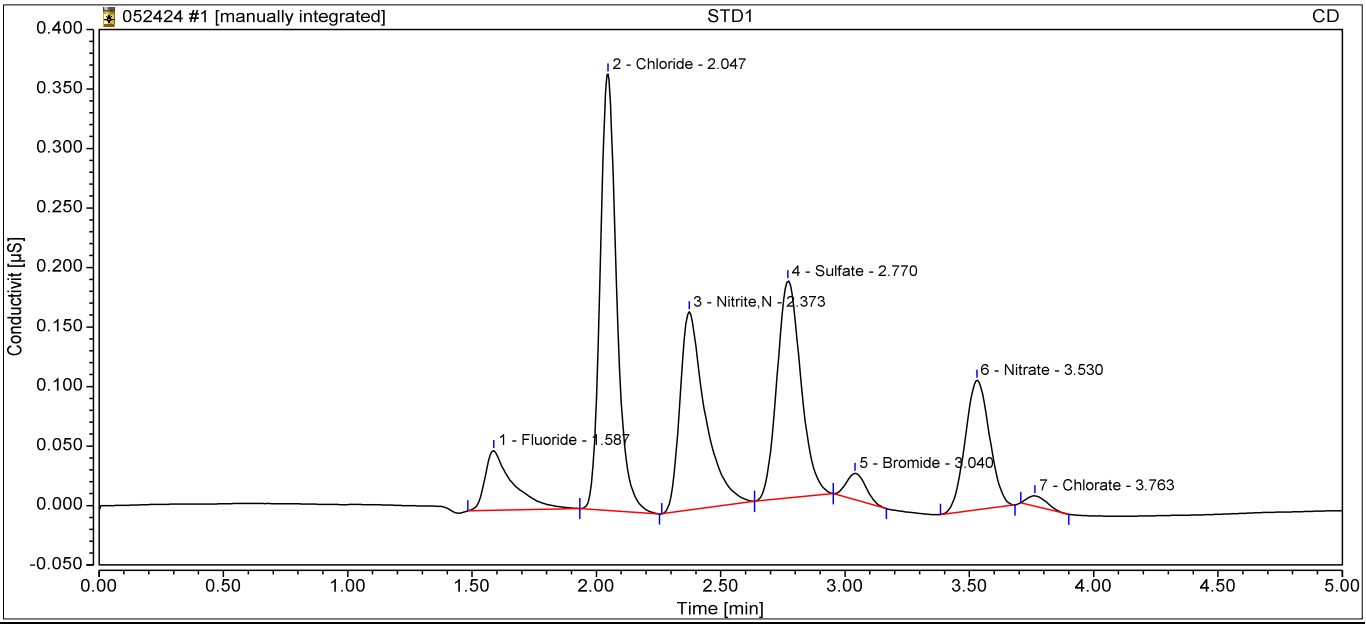
Processing Method	CD	Name	Volume	Status	Inject Time

Peak No.	Peak Name	Cal.Type	Eval.Type	Number of Points	Rel.Std.Dev. %	Coeff.of Determination	C0 (Offset)	C1 (Slope)	C2 (Curve)
1	*Fluoride*	*Quad, WithOffset, 1/A*	*Area*	*6*	*47.8211*	*0.99525*	*-0.0209*	*0.1871*	*0.0010*
2	Chloride	Lin, WithOffset, 1/A	Area	6	14.1093	0.99928	-0.0600	0.1553	0.0000
3	Nitrite,N	Quad, WithOffset, 1/A	Area	6	12.6612	0.99942	-0.0184	0.3400	-0.0034
4	Sulfate	Quad, WithOffset, 1/A	Area	6	13.5125	0.99951	-0.0367	0.1006	0.0000
5	Bromide	Quad, WithOffset, 1/A	Area	6	11.1870	0.99969	-0.0027	0.0421	0.0005
6	Nitrate	Lin, WithOffset, 1/A	Area	6	20.7181	0.99856	-0.0313	0.3430	0.0000
7	Chlorate	Quad, WithOffset, 1/A	Area	6	24.4785	0.99856	-0.0031	0.0317	0.0000
8	Phosphate	Lin, WithOffset, 1/A	Area	1	n.a.	n.a.	n.a.	n.a.	n.a.
Maximum					**47.8211**	0.99969			
Minimum					11.1870	**0.99525**			

1 STD1

Sample Name:	**STD1**	*Injection Volume:*	**5.00**
Vial Number:	**RC1**	*Channel:*	**CD**
Sample Type:	**Calibration Standard**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**05/24/2024 15:05**	*Sample Weight:*	**1.0000**

Run Time:



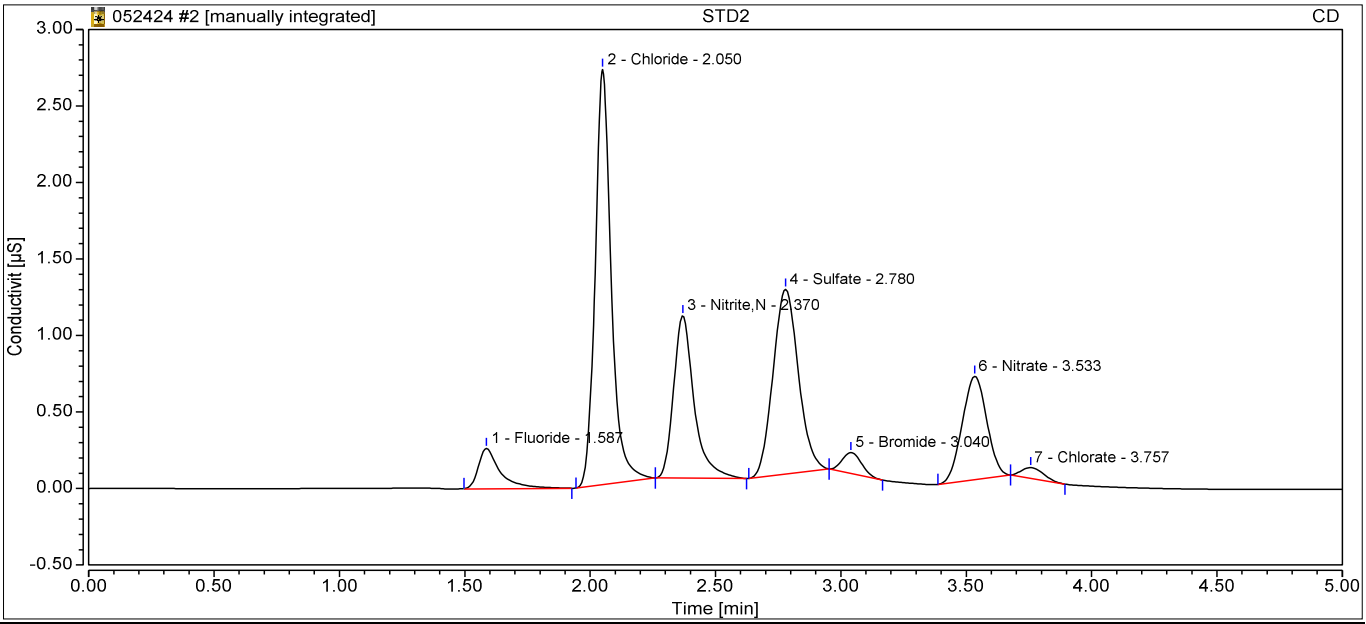
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.59	Fluoride	BMB*	0.006	0.1461	0.1461	1.0000
2	2.05	Chloride	BMB	0.028	0.5685	0.5685	1.0000
3	2.37	Nitrite,N	BMB	0.020	0.1119	0.1119	1.0000
4	2.77	Sulfate	BMB	0.020	0.5675	0.5675	1.0000
5	3.04	Bromide	BMB	0.002	0.1128	0.1128	1.0000
6	3.53	Nitrate	BMB	0.012	0.1274	0.1274	1.0000
7	3.76	Chlorate	BMB*	0.001	0.1238	0.1238	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**0.090**		**1.76**	

2 STD2

Sample Name:	**STD2**	*Injection Volume:*	**5.00**
Vial Number:	**RC3**	*Channel:*	**CD**
Sample Type:	**Calibration Standard**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**05/24/2024 15:11**	*Sample Weight:*	**1.0000**

Run Time:



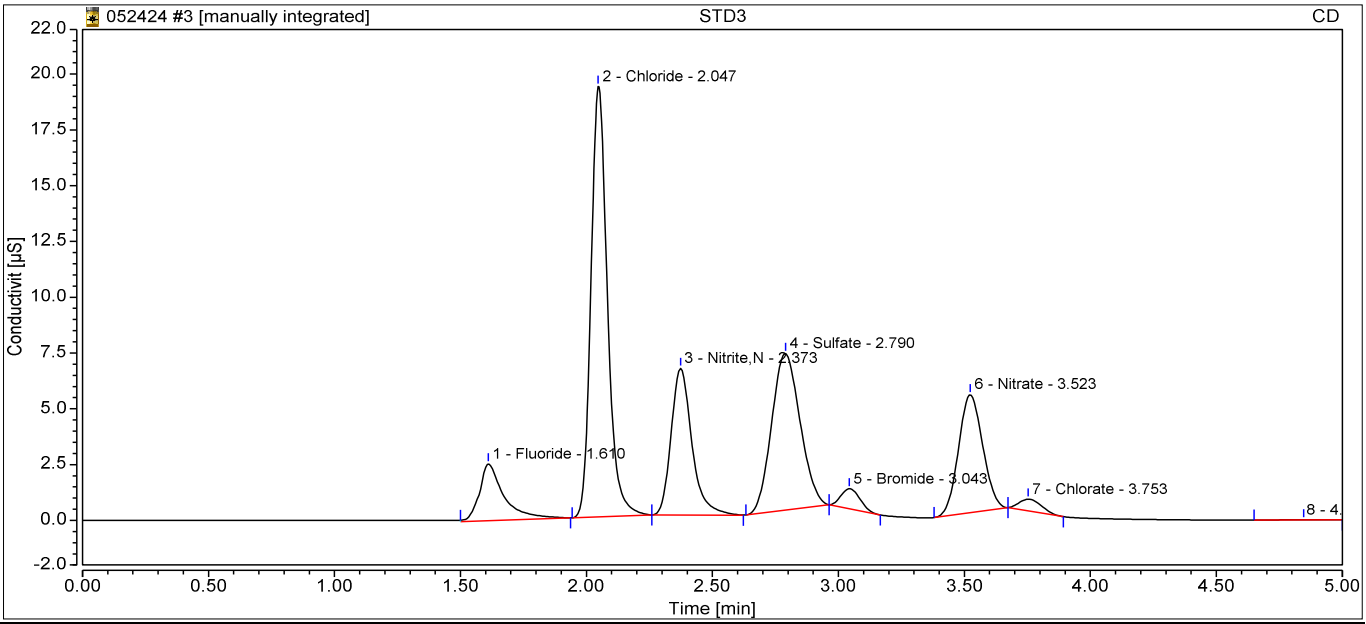
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.59	Fluoride	MB*	0.027	0.2547	0.2547	1.0000
2	2.05	Chloride	BMB	0.201	1.6835	1.6835	1.0000
3	2.37	Nitrite,N	BMB	0.101	0.3514	0.3514	1.0000
4	2.78	Sulfate	BMB	0.141	1.7687	1.7687	1.0000
5	3.04	Bromide	BMB	0.012	0.3564	0.3564	1.0000
6	3.53	Nitrate	BMB	0.076	0.3143	0.3143	1.0000
7	3.76	Chlorate	BMB	0.007	0.3242	0.3242	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**0.566**		**5.05**	

3 STD3

Sample Name:	**STD3**	*Injection Volume:*	**5.00**
Vial Number:	**RC4**	*Channel:*	**CD**
Sample Type:	**Calibration Standard**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**05/24/2024 15:17**	*Sample Weight:*	**1.0000**

Run Time:



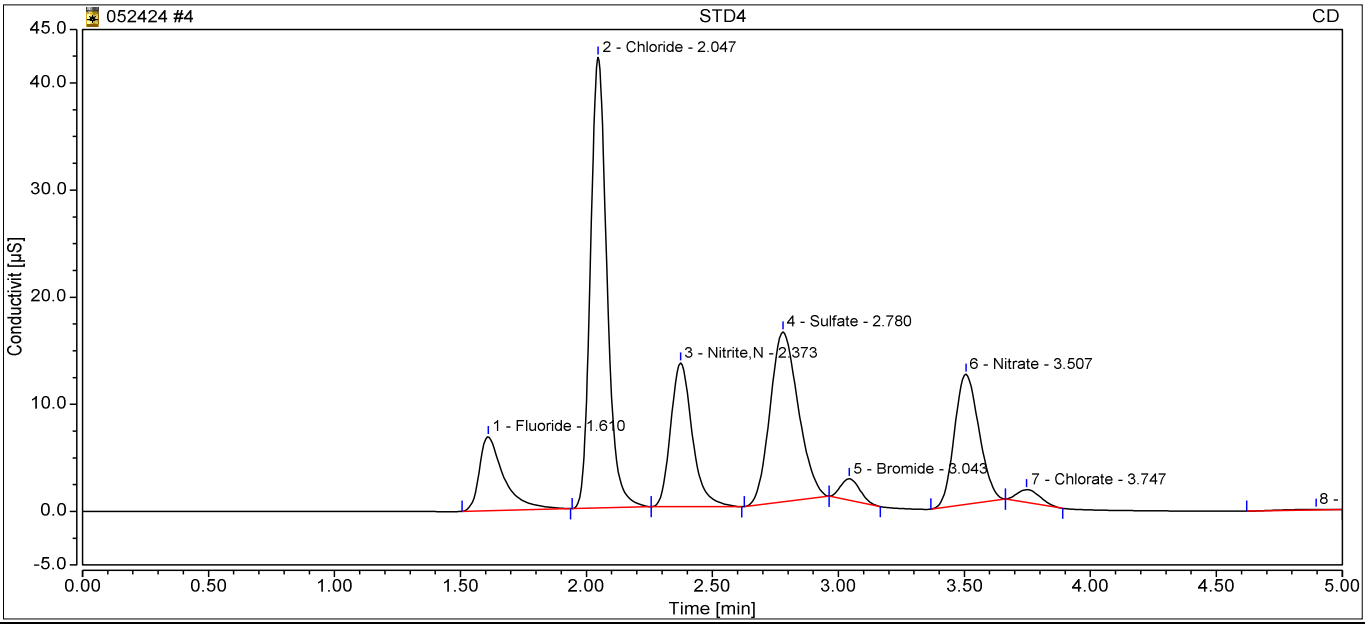
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.61	Fluoride	MB*	0.288	1.6344	1.6344	1.0000
2	2.05	Chloride	BMB	1.452	9.7390	9.7390	1.0000
3	2.37	Nitrite,N	BMB	0.628	1.9402	1.9402	1.0000
4	2.79	Sulfate	BMB	0.919	9.4564	9.4564	1.0000
5	3.04	Bromide	BMB	0.079	1.9074	1.9074	1.0000
6	3.52	Nitrate	BMB	0.588	1.8050	1.8050	1.0000
7	3.75	Chlorate	BMB	0.054	1.8157	1.8157	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**4.008**		**28.30**	

4 STD4

Sample Name:	**STD4**	*Injection Volume:*	**5.00**
Vial Number:	**RC5**	*Channel:*	**CD**
Sample Type:	**Calibration Standard**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**05/24/2024 15:23**	*Sample Weight:*	**1.0000**

Run Time:



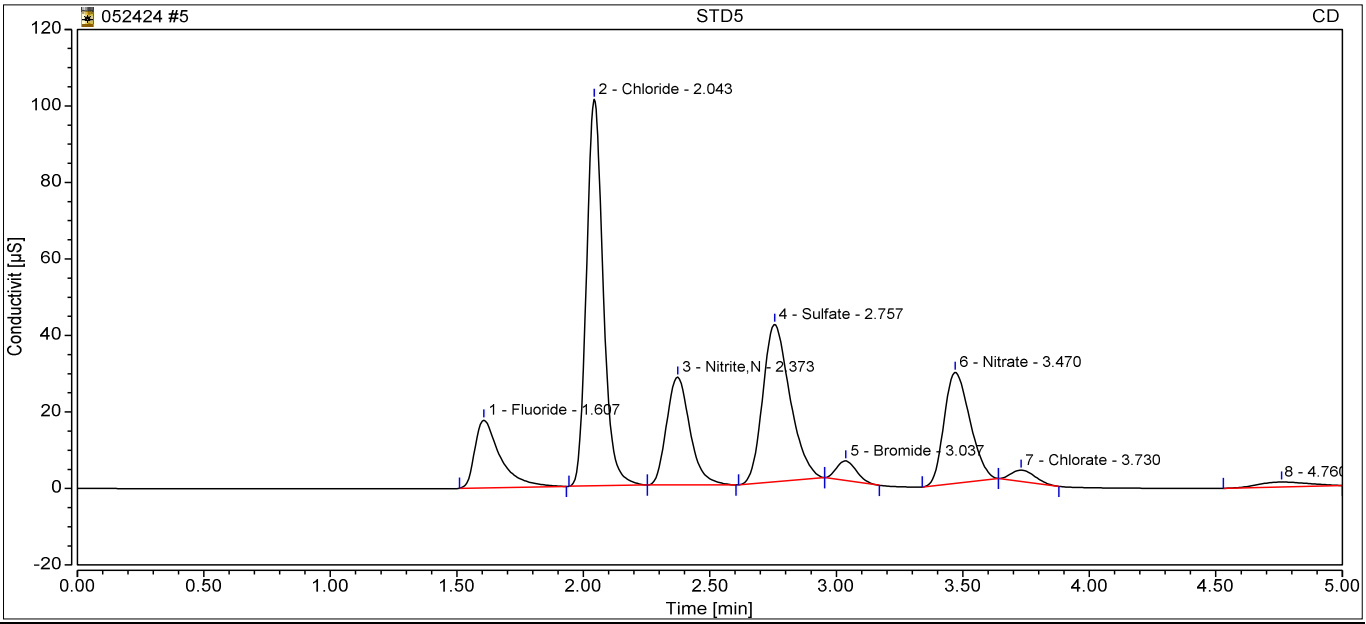
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.61	Fluoride	BMB	0.779	4.1786	4.1786	1.0000
2	2.05	Chloride	BMB	3.198	20.9870	20.9870	1.0000
3	2.37	Nitrite,N	BMB	1.336	4.1573	4.1573	1.0000
4	2.78	Sulfate	BMB	2.058	20.6315	20.6315	1.0000
5	3.04	Bromide	BMB	0.177	4.0924	4.0924	1.0000
6	3.51	Nitrate	BMB	1.374	4.0990	4.0990	1.0000
7	3.75	Chlorate	BMB	0.127	4.0823	4.0823	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**9.050**		**62.23**	

5 STD5

Sample Name:	**STD5**	*Injection Volume:*	**5.00**
Vial Number:	**RC6**	*Channel:*	**CD**
Sample Type:	**Calibration Standard**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**05/24/2024 15:29**	*Sample Weight:*	**1.0000**

Run Time:

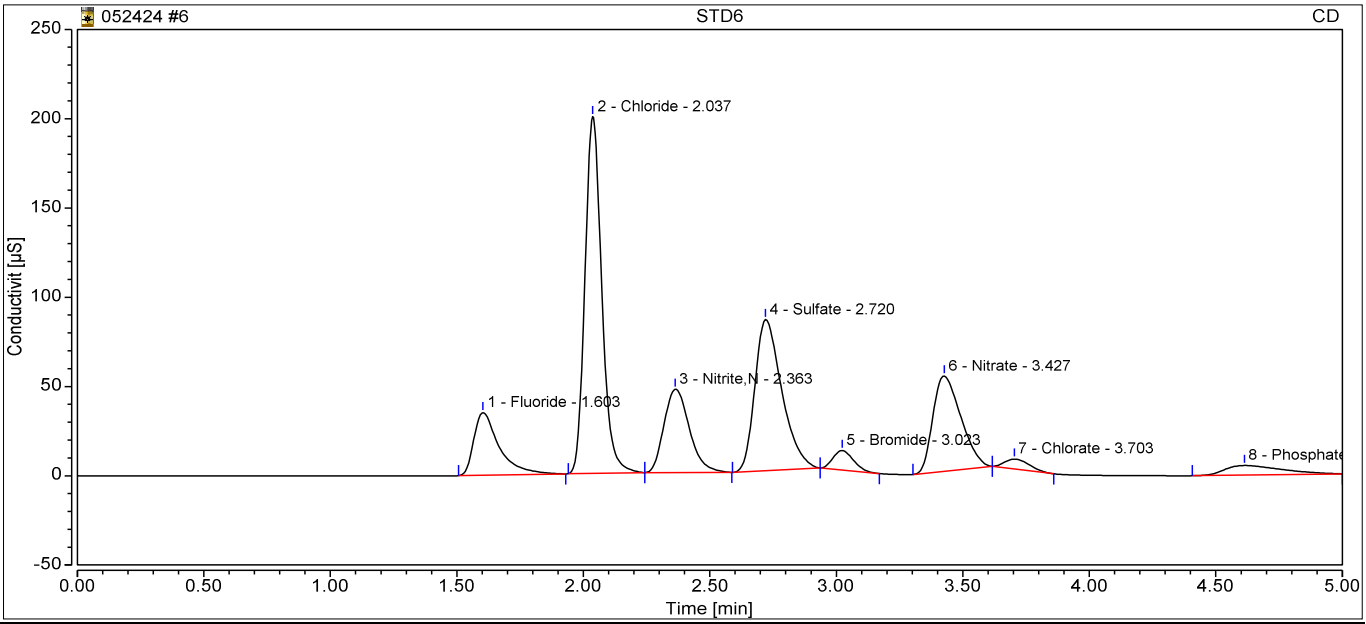


Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.61	Fluoride	BMB	2.057	10.5101	10.5101	1.0000
2	2.04	Chloride	BMB	7.745	50.2710	50.2710	1.0000
3	2.37	Nitrite,N	BMB	3.023	9.9291	9.9291	1.0000
4	2.76	Sulfate	BMB	5.132	50.2668	50.2668	1.0000
5	3.04	Bromide	BMB	0.468	10.0602	10.0602	1.0000
6	3.47	Nitrate	BMB	3.437	10.1141	10.1141	1.0000
7	3.73	Chlorate	BMB	0.324	10.2999	10.2999	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**22.186**		**151.45**	

6 STD6			
Sample Name:	**STD6**	*Injection Volume:*	**5.00**
Vial Number:	**RC7**	*Channel:*	**CD**
Sample Type:	**Calibration Standard**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**05/24/2024 15:35**	*Sample Weight:*	**1.0000**

Run Time:

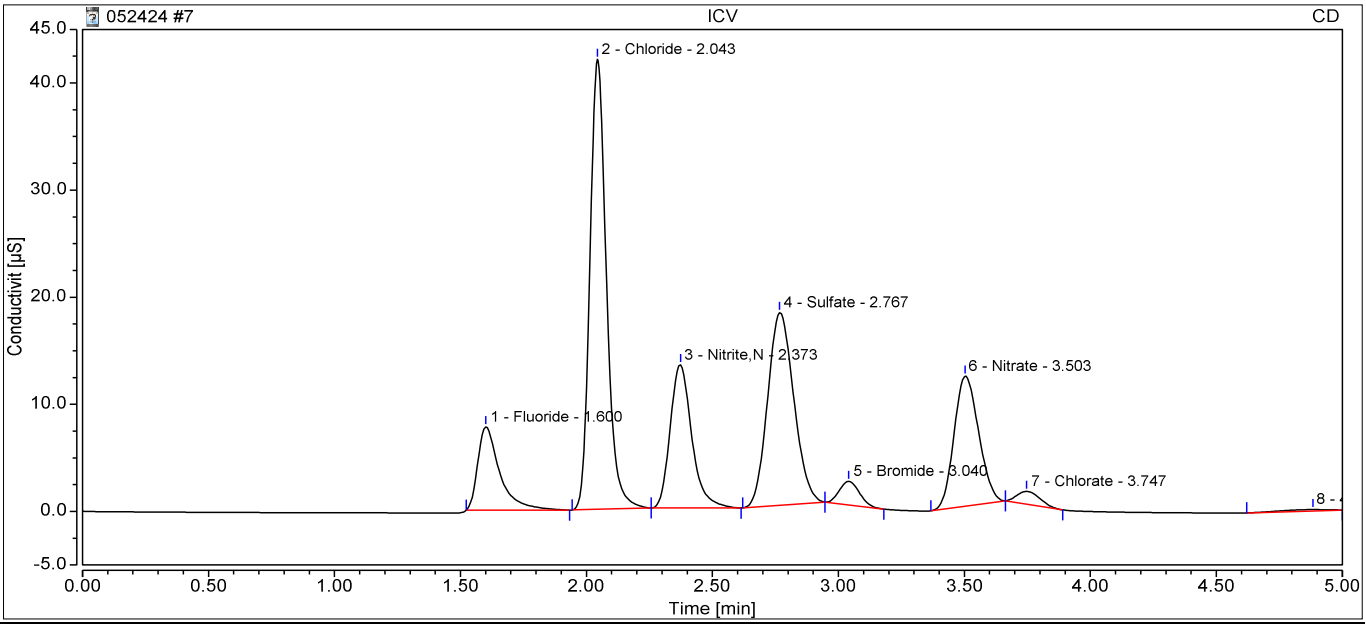


Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.60	Fluoride	BMB	4.072	19.7690	19.7690	1.0000
2	2.04	Chloride	BMB	15.349	99.2510	99.2510	1.0000
3	2.36	Nitrite,N	BMB	5.427	20.0103	20.0103	1.0000
4	2.72	Sulfate	BMB	10.440	99.8080	99.8080	1.0000
5	3.02	Bromide	BMB	1.024	19.9678	19.9678	1.0000
6	3.43	Nitrate	BMB	6.842	20.0403	20.0403	1.0000
7	3.70	Chlorate	BMB	0.629	19.8540	19.8540	1.0000
8	4.61	Phosphate	BMB	1.398	n.a.	n.a.	1.0000
Total:			**0.000**	**45.182**		**298.70**	

7 ICV			
Sample Name:	**ICV**	*Injection Volume:*	**5.00**
Vial Number:	**RC8**	*Channel:*	**CD**
Sample Type:	**Unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**05/24/2024 15:41**	*Sample Weight:*	**1.0000**

Run Time:



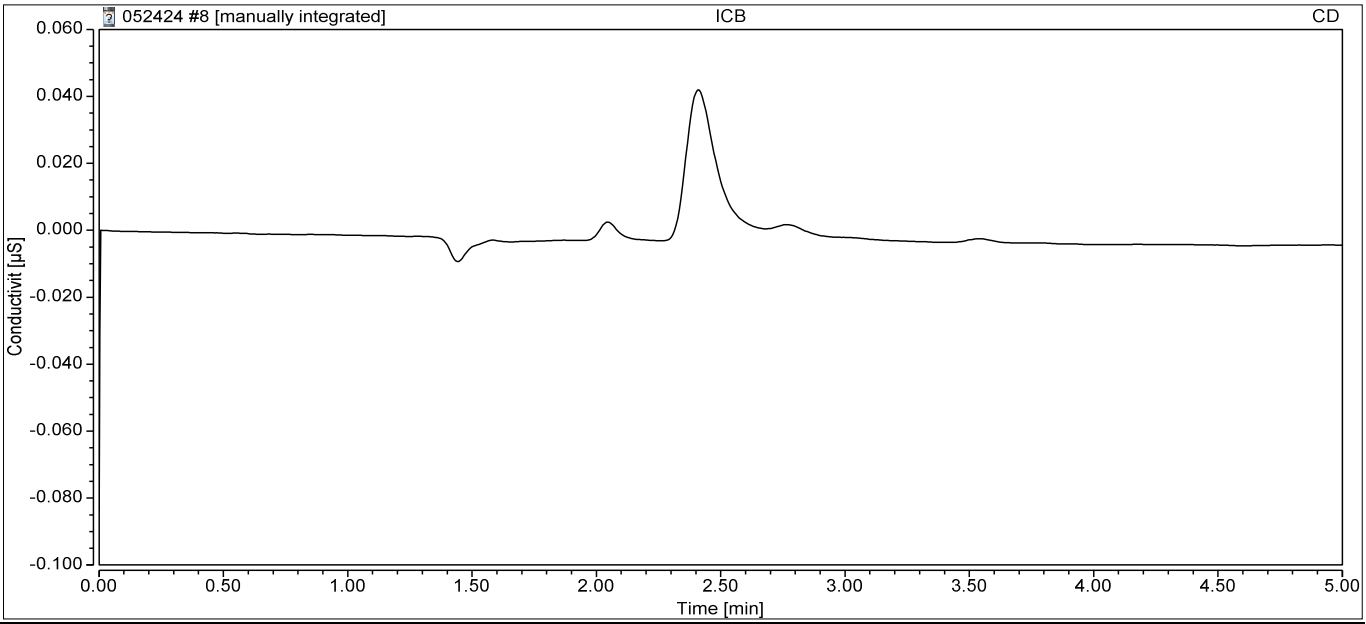
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.60	Fluoride	BMB	0.787	4.2226	4.2226	1.0000
2	2.04	Chloride	BMB	3.184	20.8964	20.8964	1.0000
3	2.37	Nitrite,N	BMB	1.328	4.1320	4.1320	1.0000
4	2.77	Sulfate	BMB	2.165	21.6763	21.6763	1.0000
5	3.04	Bromide	BMB	0.204	4.6731	4.6731	1.0000
6	3.50	Nitrate	BMB	1.373	4.0937	4.0937	1.0000
7	3.75	Chlorate	BMB	0.126	4.0795	4.0795	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**9.168**		**63.77**	

8 ICB

Sample Name:	**ICB**	*Injection Volume:*	**5.00**
Vial Number:	**B8**	*Channel:*	**CD**
Sample Type:	**Unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**05/24/2024 15:58**	*Sample Weight:*	**1.0000**

Run Time:



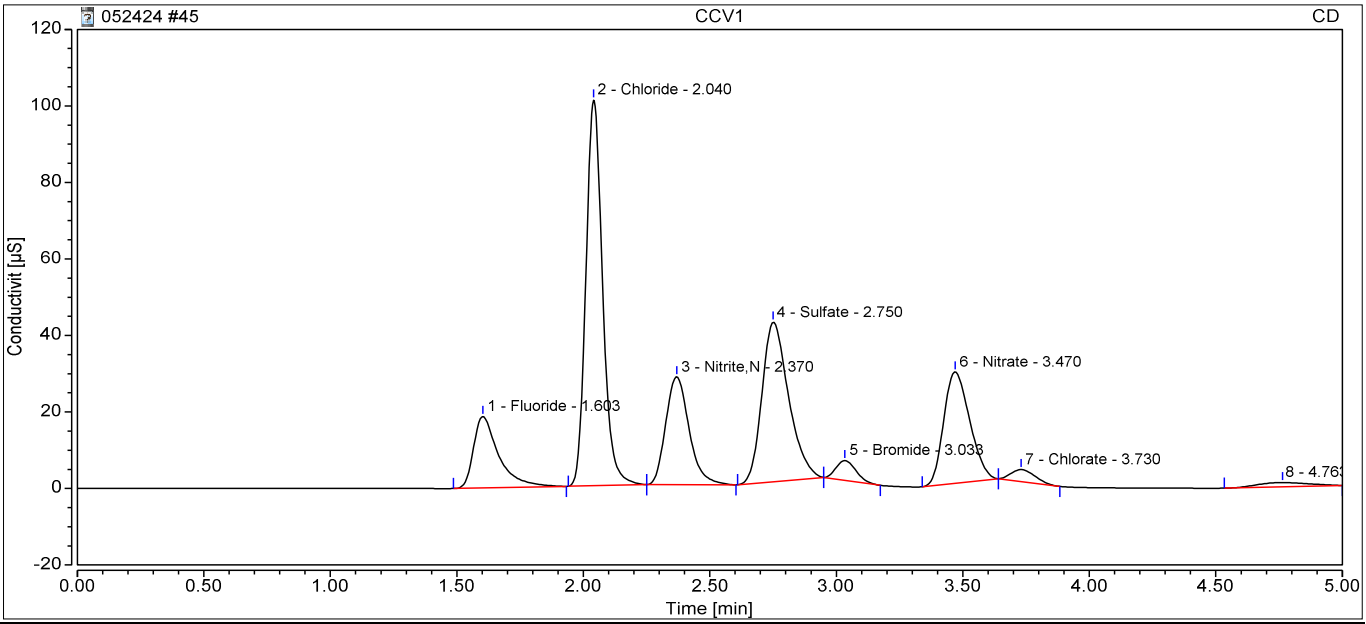
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
n.a.	n.a.	Fluoride	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Chloride	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Nitrite,N	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Sulfate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**0.000**		**0.00**	

45 CCV1

Sample Name:	**CCV1**	*Injection Volume:*	**5.00**
Vial Number:	**R3**	*Channel:*	**CD**
Sample Type:	**Unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**05/24/2024 20:27**	*Sample Weight:*	**1.0000**

Run Time:



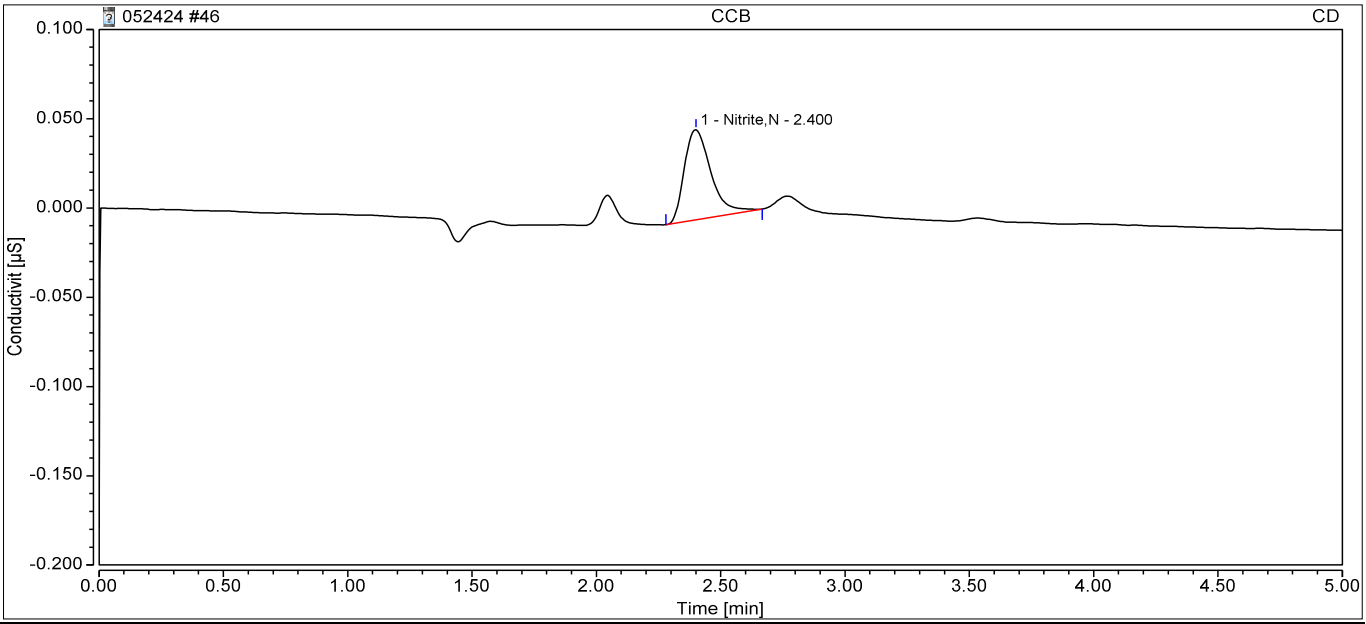
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.60	Fluoride	BMB	2.156	10.9829	10.9829	1.0000
2	2.04	Chloride	BMB	7.712	50.0635	50.0635	1.0000
3	2.37	Nitrite,N	BMB	3.026	9.9400	9.9400	1.0000
4	2.75	Sulfate	BMB	5.097	49.9382	49.9382	1.0000
5	3.03	Bromide	BMB	0.473	10.1556	10.1556	1.0000
6	3.47	Nitrate	BMB	3.465	10.1935	10.1935	1.0000
7	3.73	Chlorate	BMB	0.347	10.9979	10.9979	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**22.276**		**152.27**	

46 CCB

Sample Name:	**CCB**	*Injection Volume:*	**5.00**
Vial Number:	**R8**	*Channel:*	**CD**
Sample Type:	**Unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**05/24/2024 20:44**	*Sample Weight:*	**1.0000**

Run Time:



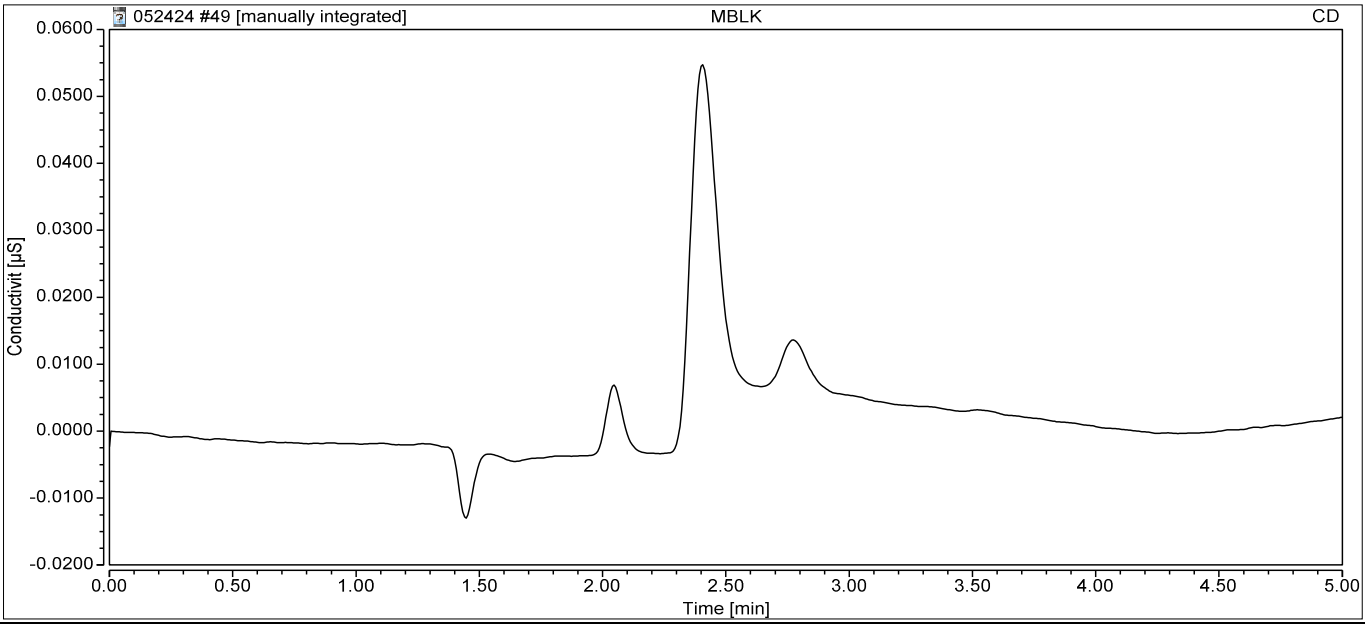
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
n.a.	n.a.	Fluoride	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Chloride	n.a.	n.a.	n.a.	n.a.	1.0000
1	2.40	Nitrite,N	BMB	0.006	0.0727	0.0727	1.0000
n.a.	n.a.	Sulfate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**0.006**		**0.07**	

49 MBLK

Sample Name:	**MBLK**	*Injection Volume:*	**5.00**
Vial Number:	**R5**	*Channel:*	**CD**
Sample Type:	**Unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**05/24/2024 21:13**	*Sample Weight:*	**1.0000**

Run Time:



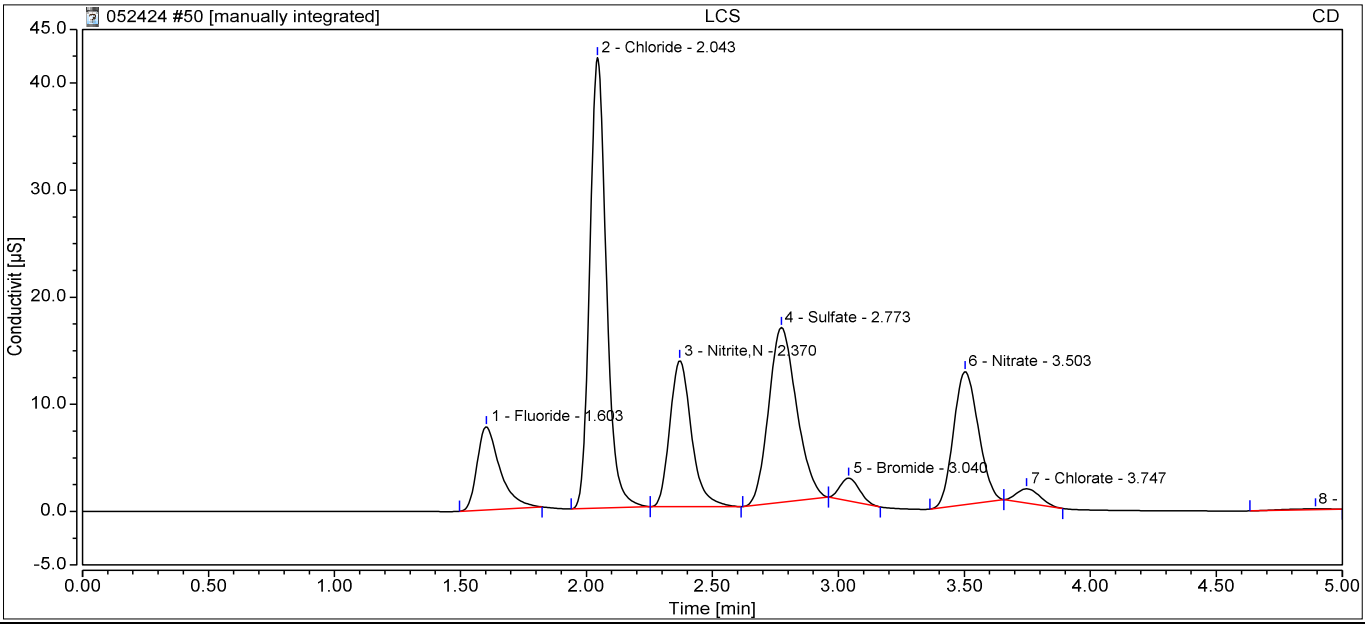
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
n.a.	n.a.	Fluoride	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Chloride	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Nitrite,N	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Sulfate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**0.000**		**0.00**	

50 LCS

Sample Name:	**LCS**	*Injection Volume:*	**5.00**
Vial Number:	**R2**	*Channel:*	**CD**
Sample Type:	**Unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**05/24/2024 21:19**	*Sample Weight:*	**1.0000**

Run Time:



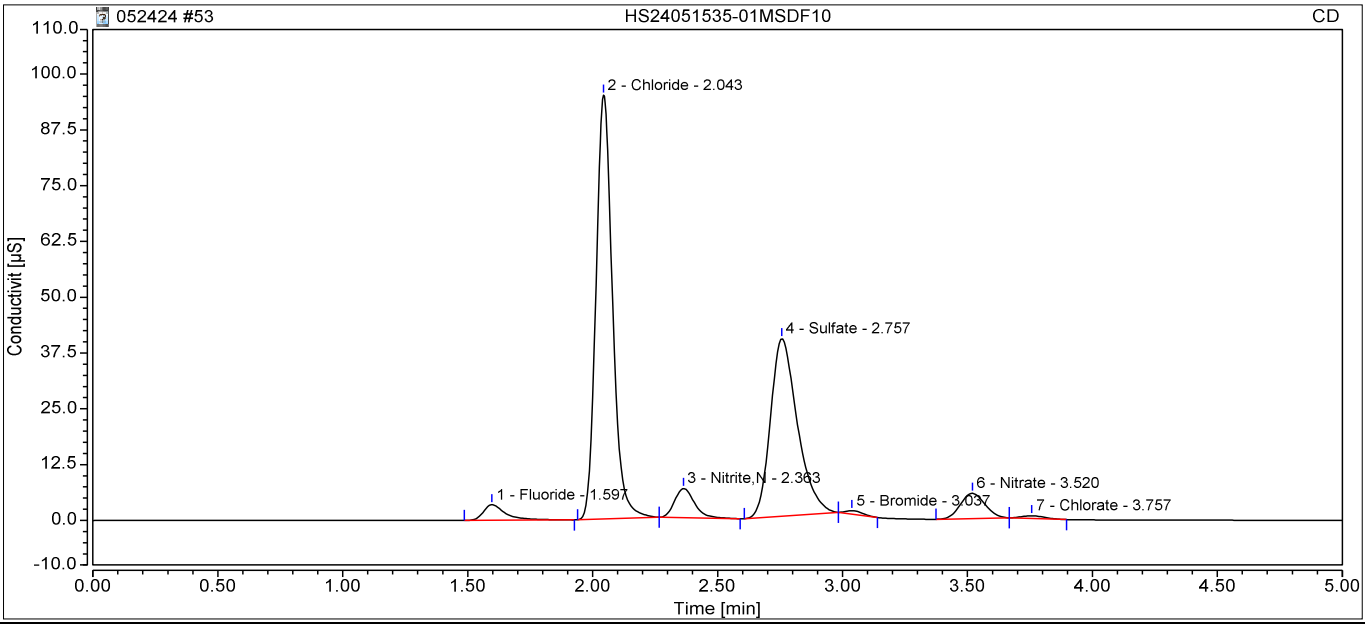
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.60	Fluoride	BMB*	0.815	4.3642	4.3642	1.0000
2	2.04	Chloride	BMB	3.209	21.0568	21.0568	1.0000
3	2.37	Nitrite,N	BMB	1.362	4.2397	4.2397	1.0000
4	2.77	Sulfate	BMB	2.090	20.9447	20.9447	1.0000
5	3.04	Bromide	BMB	0.190	4.3555	4.3555	1.0000
6	3.50	Nitrate	BMB	1.418	4.2252	4.2252	1.0000
7	3.75	Chlorate	BMB	0.143	4.6011	4.6011	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**9.226**		**63.79**	

53 HS24051535-01MSDF10

Sample Name:	**HS24051535-01MSDF10**	*Injection Volume:*	**5.00**
Vial Number:	**RE5**	*Channel:*	**CD**
Sample Type:	**Unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**10.0000**
Recording Time:	**05/24/2024 21:37**	*Sample Weight:*	**1.0000**

Run Time:



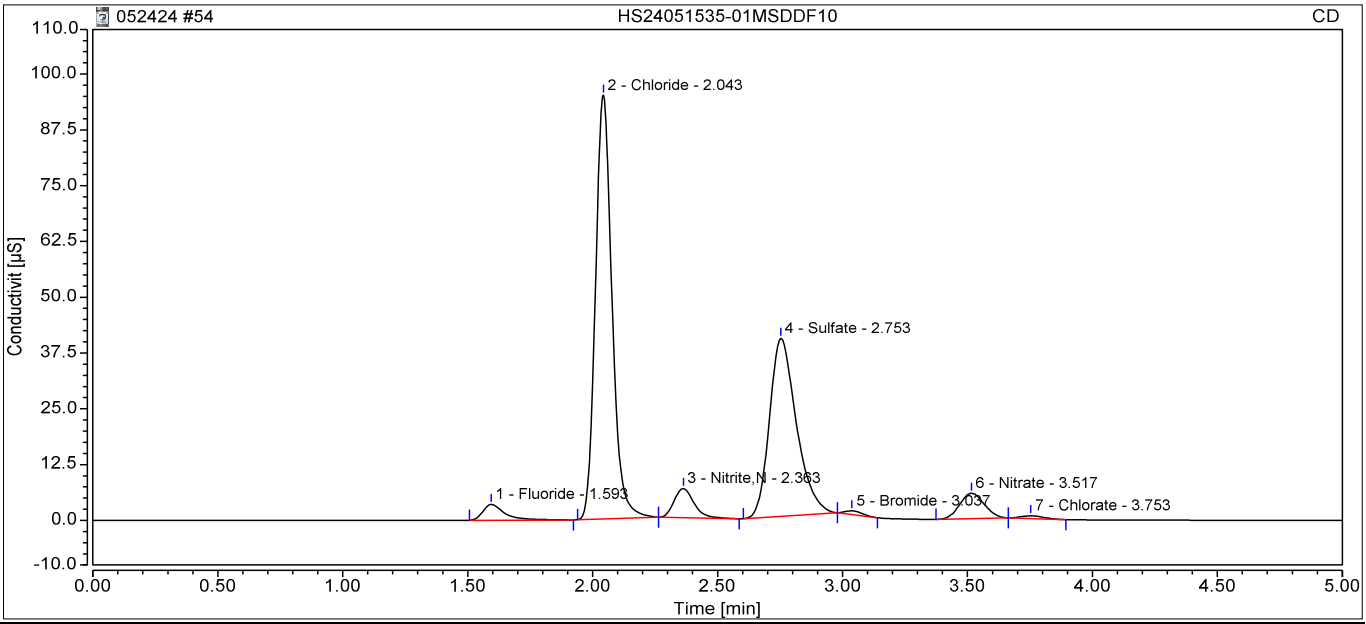
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.60	Fluoride	BMB	0.365	2.0374	20.3742	10.0000
2	2.04	Chloride	BMB	7.276	47.2549	472.5492	10.0000
3	2.36	Nitrite,N	BMB	0.606	1.8704	18.7044	10.0000
4	2.76	Sulfate	BMB	4.971	48.7399	487.3993	10.0000
5	3.04	Bromide	BMB	0.060	1.4734	14.7344	10.0000
6	3.52	Nitrate	BMB	0.643	1.9659	19.6594	10.0000
7	3.76	Chlorate	BMB	0.063	2.0744	20.7440	10.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	10.0000
Total:			**0.000**	**13.984**		**1054.16**	

54 HS24051535-01MSDDF10

Sample Name:	**HS24051535-01MSDDF10**	*Injection Volume:*	**5.00**
Vial Number:	**RE6**	*Channel:*	**CD**
Sample Type:	**Unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**10.0000**
Recording Time:	**05/24/2024 21:42**	*Sample Weight:*	**1.0000**

Run Time:



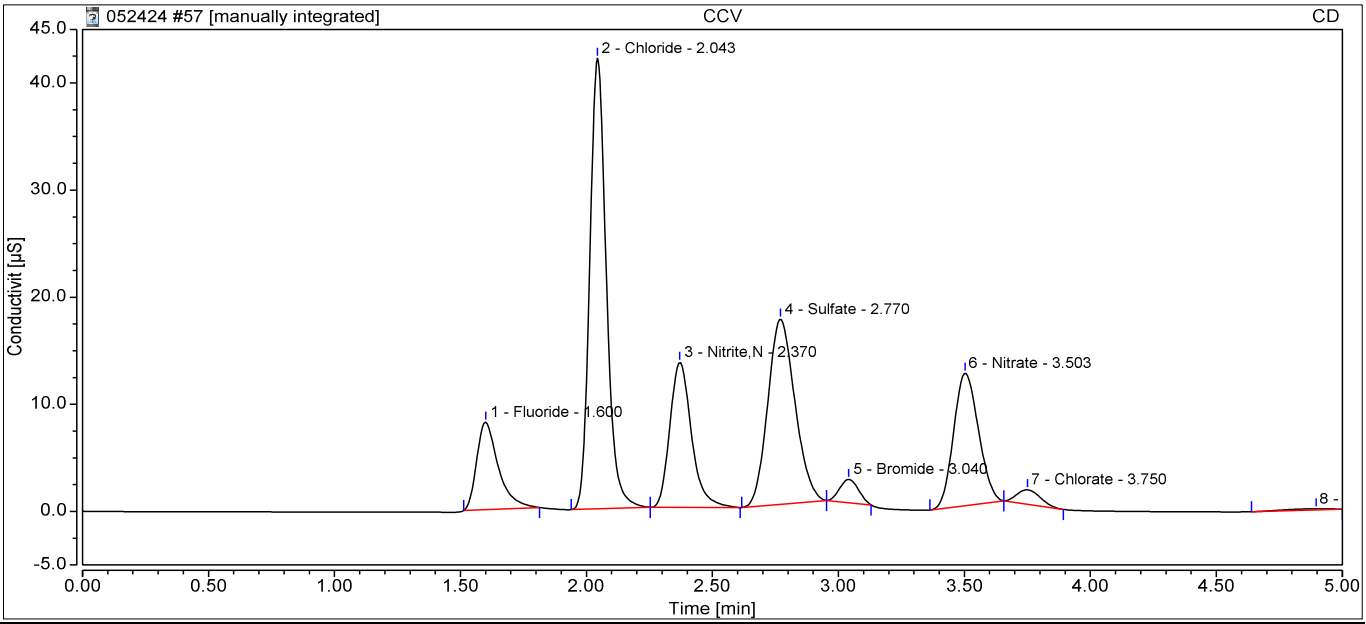
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.59	Fluoride	BMB	0.362	2.0228	20.2282	10.0000
2	2.04	Chloride	BMB	7.275	47.2469	472.4695	10.0000
3	2.36	Nitrite,N	BMB	0.608	1.8763	18.7633	10.0000
4	2.75	Sulfate	BMB	4.977	48.7954	487.9545	10.0000
5	3.04	Bromide	BMB	0.063	1.5428	15.4284	10.0000
6	3.52	Nitrate	BMB	0.645	1.9721	19.7212	10.0000
7	3.75	Chlorate	BMB	0.063	2.0962	20.9625	10.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	10.0000
Total:			**0.000**	**13.993**		**1055.53**	

57 CCV

Sample Name:	**CCV**	*Injection Volume:*	**5.00**
Vial Number:	**R1**	*Channel:*	**CD**
Sample Type:	**Unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**05/24/2024 22:06**	*Sample Weight:*	**1.0000**

Run Time:



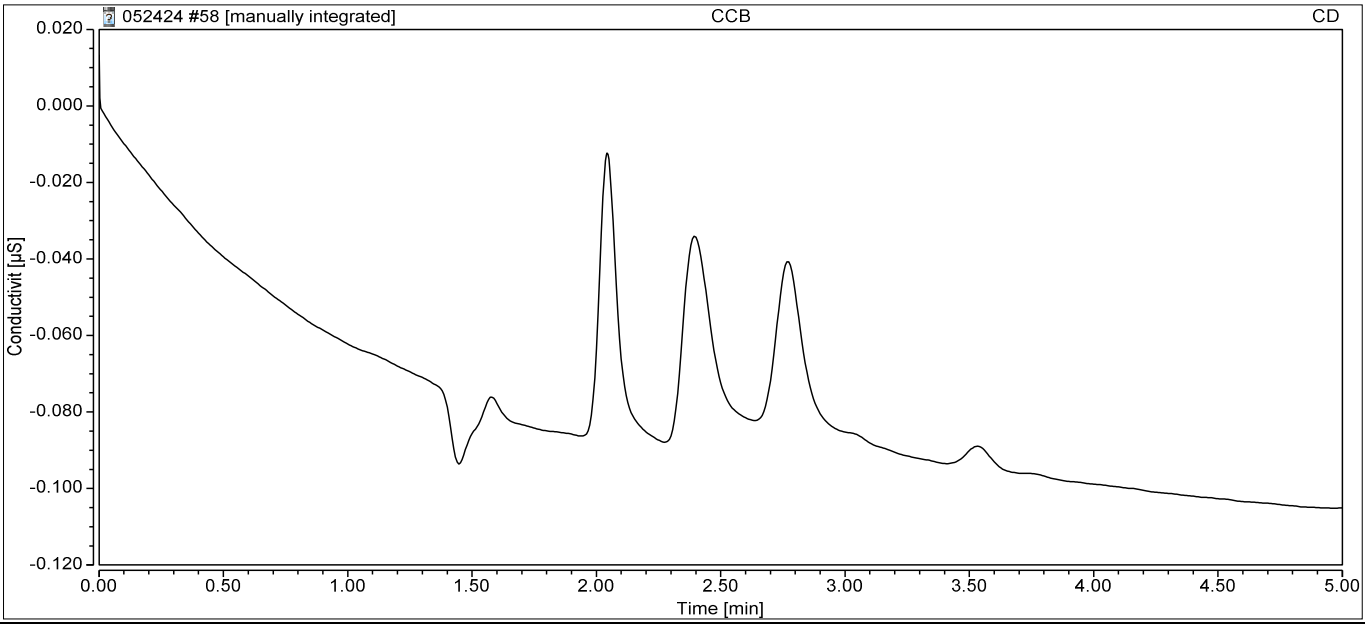
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.60	Fluoride	BMB*	0.812	4.3477	4.3477	1.0000
2	2.04	Chloride	BMB	3.202	21.0122	21.0122	1.0000
3	2.37	Nitrite,N	BMB	1.350	4.2006	4.2006	1.0000
4	2.77	Sulfate	BMb*	2.156	21.5837	21.5837	1.0000
5	3.04	Bromide	bMB*	0.189	4.3374	4.3374	1.0000
6	3.50	Nitrate	BMB	1.414	4.2152	4.2152	1.0000
7	3.75	Chlorate	BMB	0.144	4.6473	4.6473	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**9.267**		**64.34**	

58 CCB

Sample Name:	**CCB**	*Injection Volume:*	**5.00**
Vial Number:	**R4**	*Channel:*	**CD**
Sample Type:	**Unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**05/24/2024 22:12**	*Sample Weight:*	**1.0000**

Run Time:



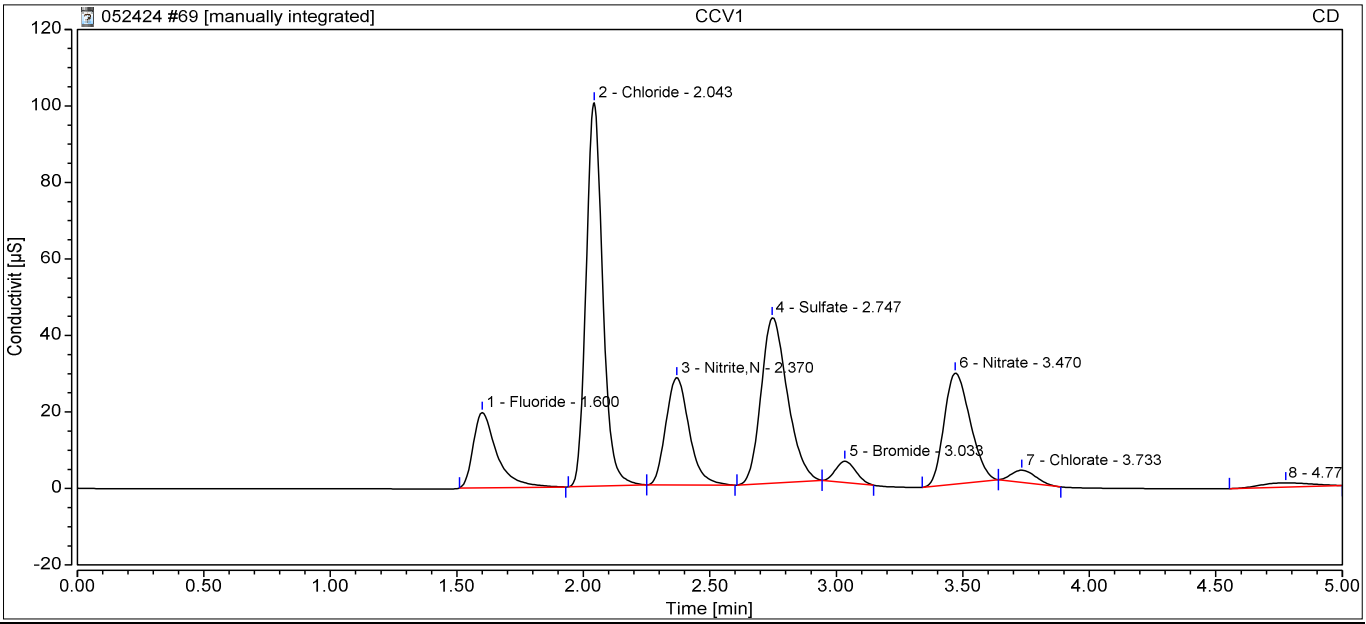
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
n.a.	n.a.	Fluoride	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Chloride	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Nitrite,N	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Sulfate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**0.000**		**0.00**	

69 CCV1

Sample Name:	**CCV1**	*Injection Volume:*	**5.00**
Vial Number:	**R3**	*Channel:*	**CD**
Sample Type:	**Unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**05/24/2024 23:28**	*Sample Weight:*	**1.0000**

Run Time:



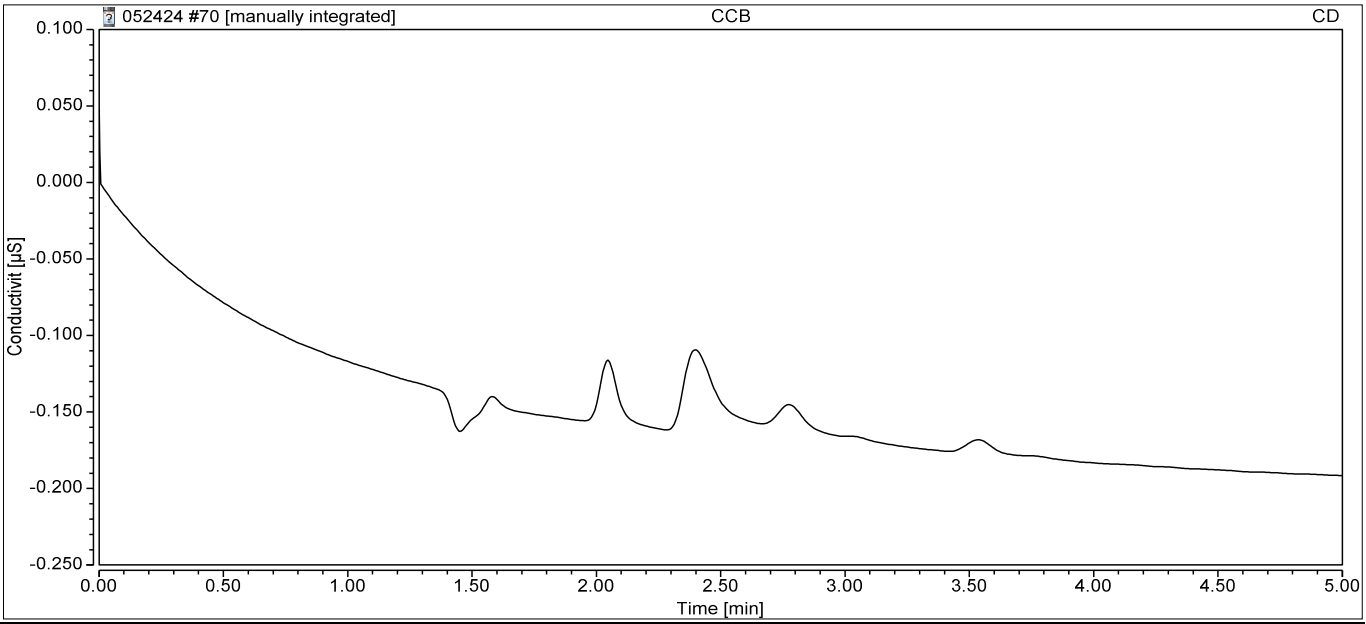
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.60	Fluoride	BMB	2.125	10.8343	10.8343	1.0000
2	2.04	Chloride	BMB	7.631	49.5402	49.5402	1.0000
3	2.37	Nitrite,N	BMB	2.992	9.8135	9.8135	1.0000
4	2.75	Sulfate	BMb*	5.207	50.9889	50.9889	1.0000
5	3.03	Bromide	bMB*	0.508	10.8354	10.8354	1.0000
6	3.47	Nitrate	BMB	3.456	10.1684	10.1684	1.0000
7	3.73	Chlorate	BMB	0.354	11.2343	11.2343	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**22.273**		**153.42**	

70 CCB

Sample Name:	**CCB**	*Injection Volume:*	**5.00**
Vial Number:	**R7**	*Channel:*	**CD**
Sample Type:	**Unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**05/24/2024 23:34**	*Sample Weight:*	**1.0000**

Run Time:



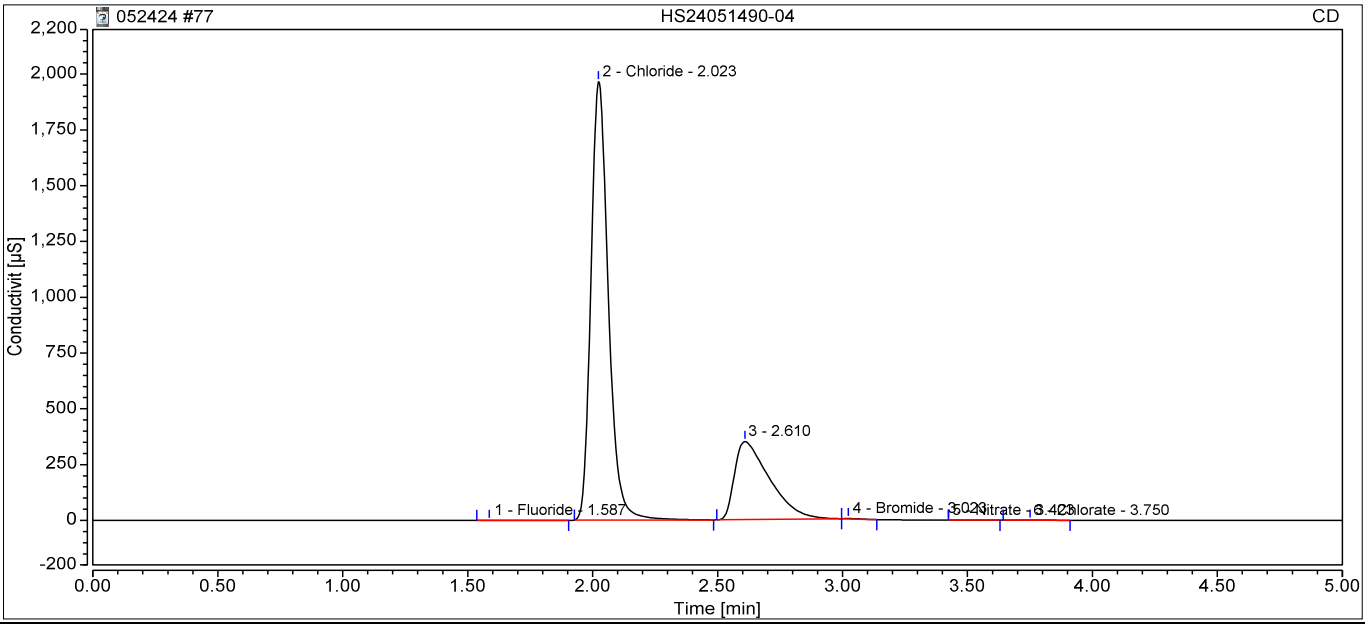
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
n.a.	n.a.	Fluoride	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Chloride	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Nitrite,N	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Sulfate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**0.000**		**0.00**	

77 HS24051490-04

Sample Name:	**HS24051490-04**	*Injection Volume:*	**5.00**
Vial Number:	**GC1**	*Channel:*	**CD**
Sample Type:	**Unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**05/25/2024 00:21**	*Sample Weight:*	**1.0000**

Run Time:



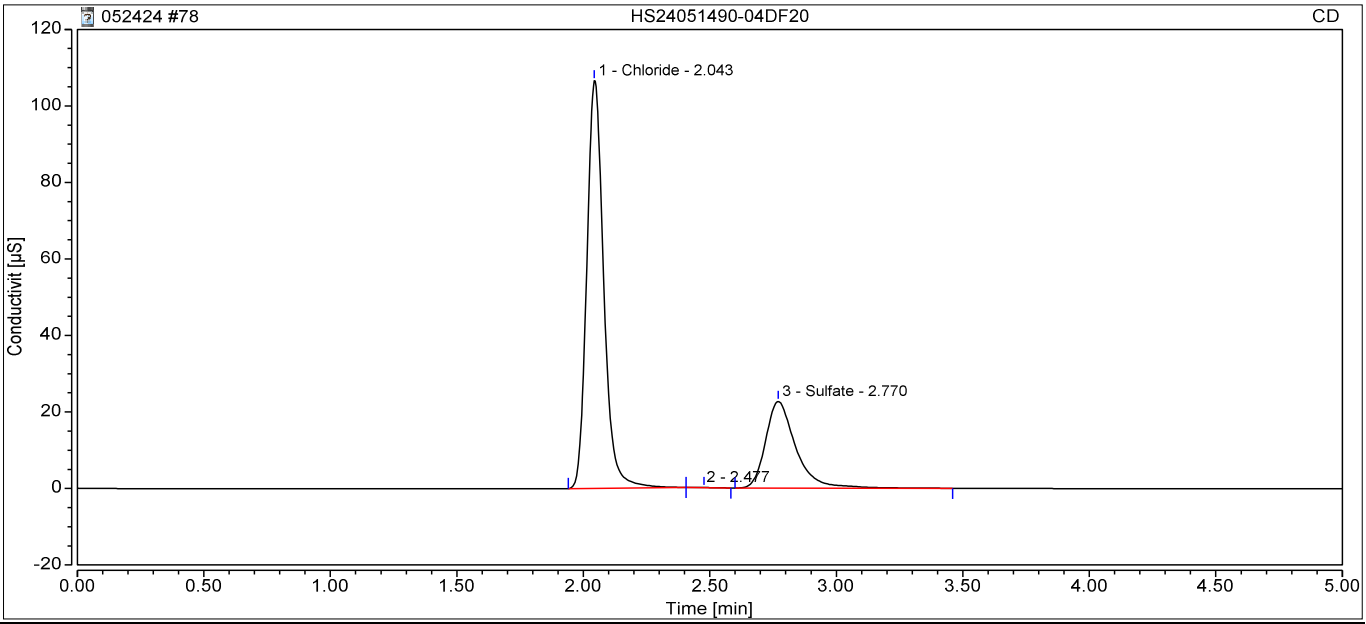
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.59	Fluoride	BMB	0.010	0.1633	0.1633	1.0000
2	2.02	Chloride	BMB	158.146	1019.0353	1019.0353	1.0000
n.a.	n.a.	Nitrite,N	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Sulfate	n.a.	n.a.	n.a.	n.a.	1.0000
4	3.02	Bromide	BMB	0.087	2.0918	2.0918	1.0000
5	3.42	Nitrate	BMB	0.016	0.1371	0.1371	1.0000
6	3.75	Chlorate	BMB	0.033	1.1241	1.1241	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**158.291**		**1022.55**	

78 HS24051490-04DF20

Sample Name:	**HS24051490-04DF20**	*Injection Volume:*	**5.00**
Vial Number:	**GC2**	*Channel:*	**CD**
Sample Type:	**Unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**20.0000**
Recording Time:	**05/25/2024 00:26**	*Sample Weight:*	**1.0000**

Run Time:



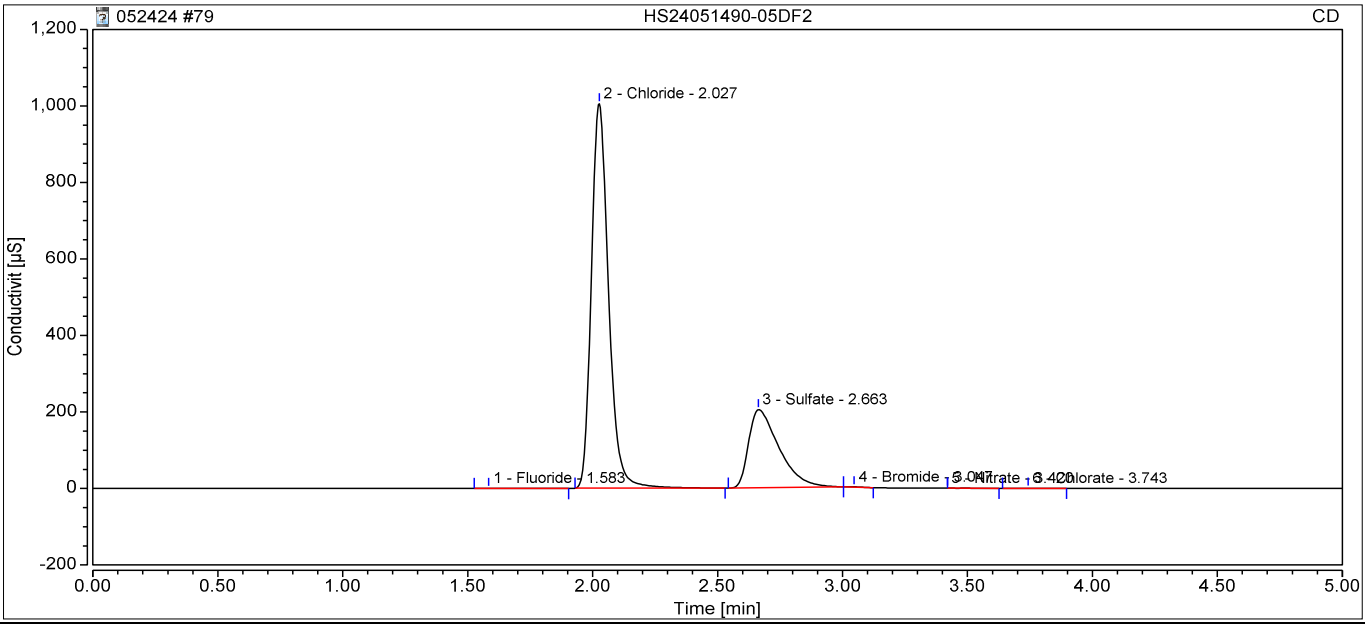
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
n.a.	n.a.	Fluoride	n.a.	n.a.	n.a.	n.a.	20.0000
1	2.04	Chloride	BMB	8.272	53.6655	1073.3098	20.0000
n.a.	n.a.	Nitrite,N	n.a.	n.a.	n.a.	n.a.	20.0000
3	2.77	Sulfate	BMB	3.127	31.0217	620.4350	20.0000
n.a.	n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	20.0000
n.a.	n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	20.0000
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	20.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	20.0000
Total:			**0.000**	**11.399**		**1693.74**	

79 HS24051490-05DF2

Sample Name:	**HS24051490-05DF2**	*Injection Volume:*	**5.00**
Vial Number:	**GC3**	*Channel:*	**CD**
Sample Type:	**Unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**2.0000**
Recording Time:	**05/25/2024 00:32**	*Sample Weight:*	**1.0000**

Run Time:



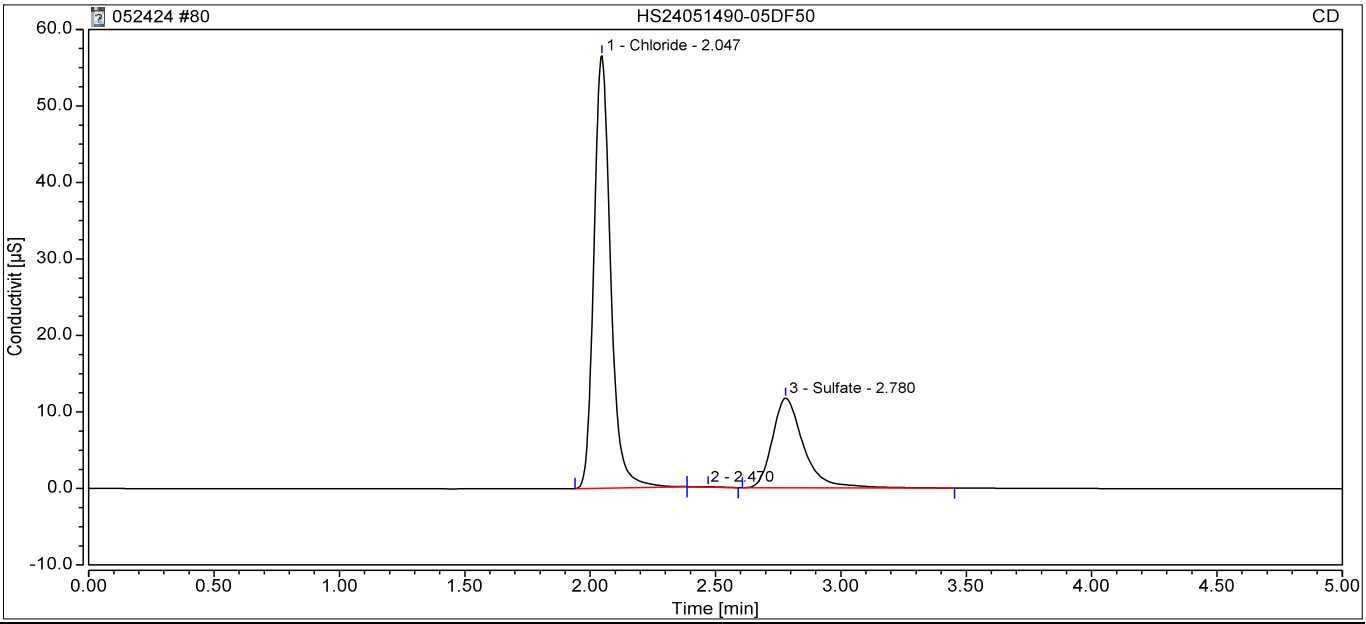
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.58	Fluoride	BMB	0.009	0.1597	0.3193	2.0000
2	2.03	Chloride	BMB	79.931	515.2394	1030.4787	2.0000
n.a.	n.a.	Nitrite,N	n.a.	n.a.	n.a.	n.a.	2.0000
3	2.66	Sulfate	BMB	28.650	256.6024	513.2048	2.0000
4	3.05	Bromide	BMB	0.030	0.7631	1.5261	2.0000
5	3.42	Nitrate	BMB	0.008	0.1153	0.2306	2.0000
6	3.74	Chlorate	BMB	0.015	0.5686	1.1372	2.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	2.0000
Total:			**0.000**	**108.643**		**1546.90**	

80 HS24051490-05DF50

Sample Name:	**HS24051490-05DF50**	*Injection Volume:*	**5.00**
Vial Number:	**GC4**	*Channel:*	**CD**
Sample Type:	**Unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**50.0000**
Recording Time:	**05/25/2024 00:38**	*Sample Weight:*	**1.0000**

Run Time:



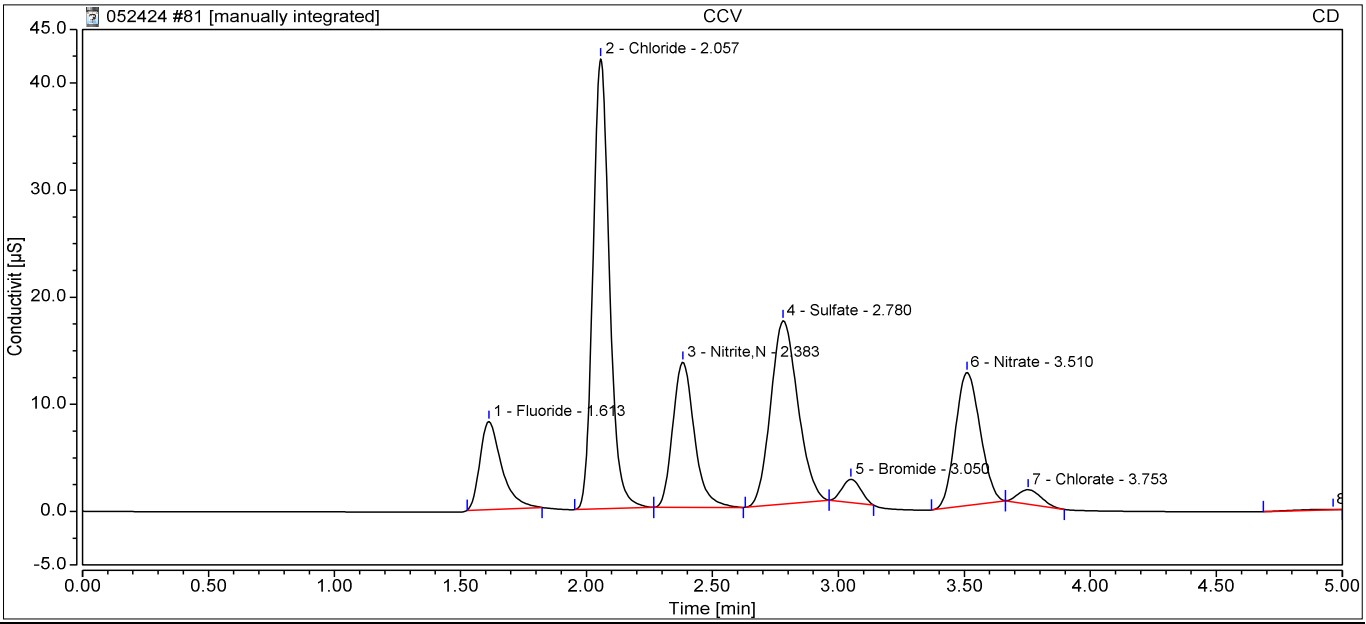
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
n.a.	n.a.	Fluoride	n.a.	n.a.	n.a.	n.a.	50.0000
1	2.05	Chloride	BMB	4.372	28.5502	1427.5109	50.0000
n.a.	n.a.	Nitrite,N	n.a.	n.a.	n.a.	n.a.	50.0000
3	2.78	Sulfate	BMB	1.679	16.9307	846.5345	50.0000
n.a.	n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	50.0000
n.a.	n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	50.0000
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	50.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	50.0000
Total:			**0.000**	**6.052**		**2274.05**	

81 CCV

Sample Name:	**CCV**	*Injection Volume:*	**5.00**
Vial Number:	**R1**	*Channel:*	**CD**
Sample Type:	**Unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**05/25/2024 00:50**	*Sample Weight:*	**1.0000**

Run Time:



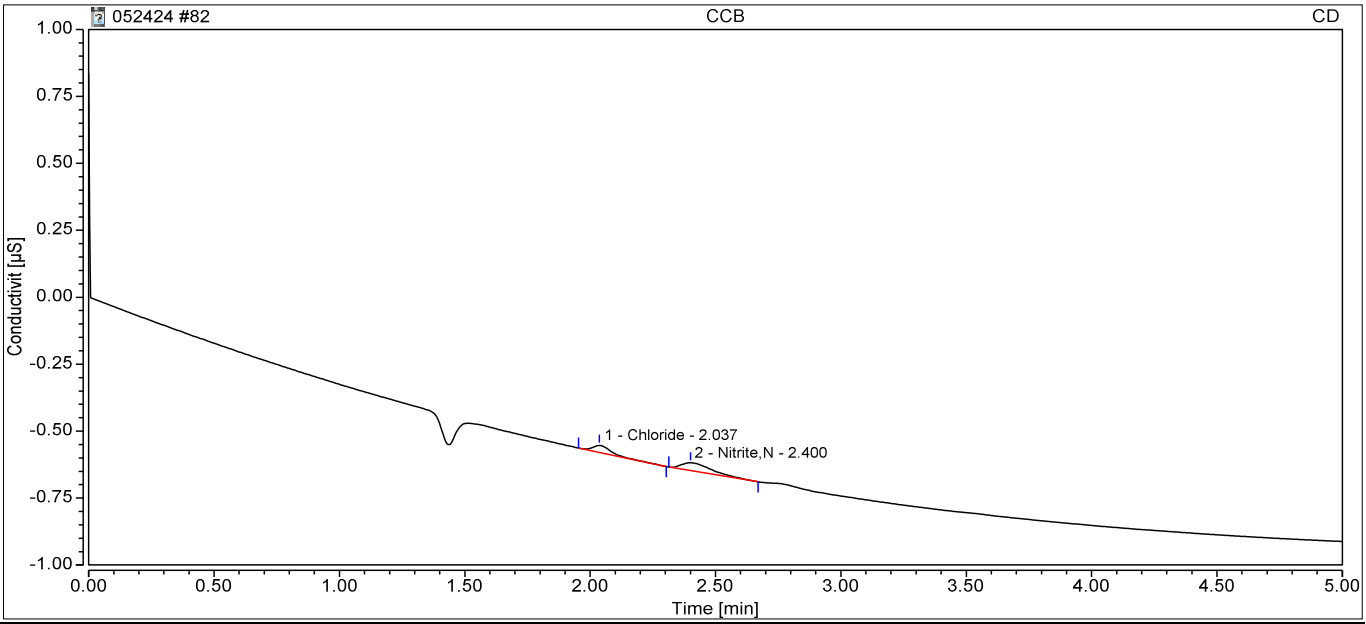
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.61	Fluoride	BMB*	0.817	4.3744	4.3744	1.0000
2	2.06	Chloride	BMB	3.188	20.9187	20.9187	1.0000
3	2.38	Nitrite,N	BMB	1.349	4.1973	4.1973	1.0000
4	2.78	Sulfate	BMb*	2.137	21.3991	21.3991	1.0000
5	3.05	Bromide	bMB*	0.188	4.3294	4.3294	1.0000
6	3.51	Nitrate	BMB	1.416	4.2210	4.2210	1.0000
7	3.75	Chlorate	BMB	0.144	4.6257	4.6257	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**9.238**		**64.07**	

82 CCB

Sample Name:	**CCB**	*Injection Volume:*	**5.00**
Vial Number:	**R6**	*Channel:*	**CD**
Sample Type:	**Unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**05/25/2024 01:01**	*Sample Weight:*	**1.0000**

Run Time:



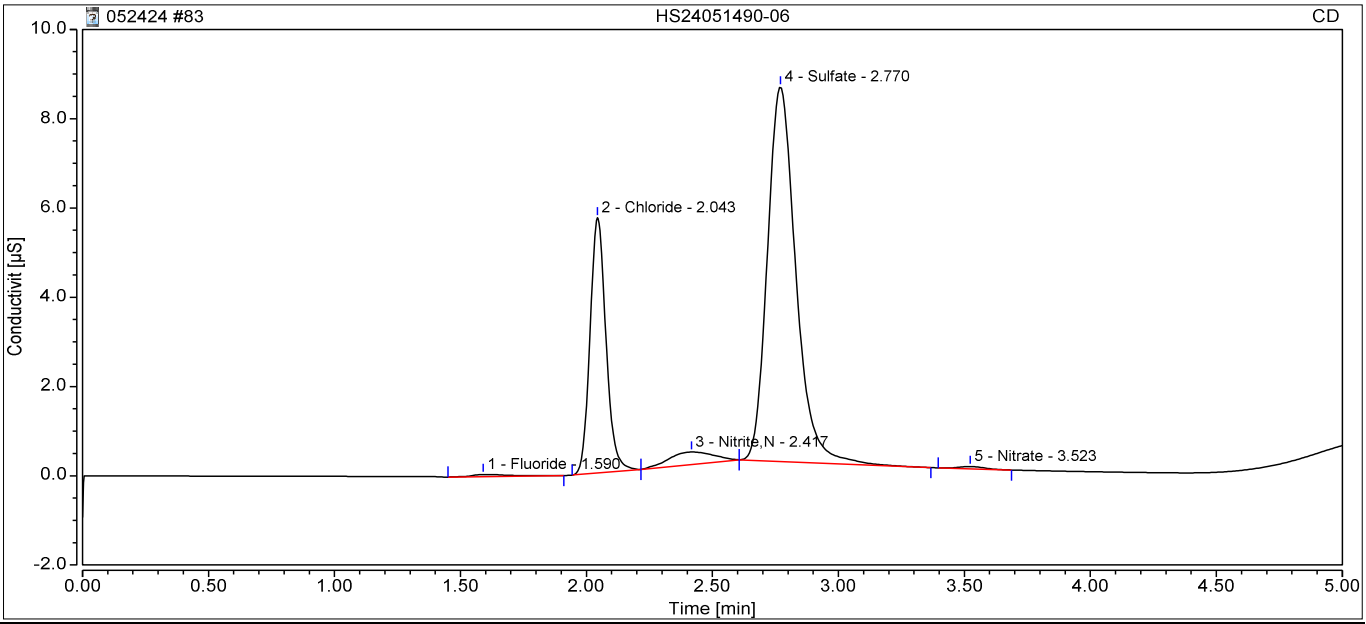
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
n.a.	n.a.	Fluoride	n.a.	n.a.	n.a.	n.a.	1.0000
1	2.04	Chloride	BMB	0.002	0.4008	0.4008	1.0000
2	2.40	Nitrite,N	BMB	0.004	0.0669	0.0669	1.0000
n.a.	n.a.	Sulfate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**0.007**		**0.47**	

83 HS24051490-06

Sample Name:	**HS24051490-06**	*Injection Volume:*	**5.00**
Vial Number:	**GC5**	*Channel:*	**CD**
Sample Type:	**Unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**05/25/2024 01:07**	*Sample Weight:*	**1.0000**

Run Time:



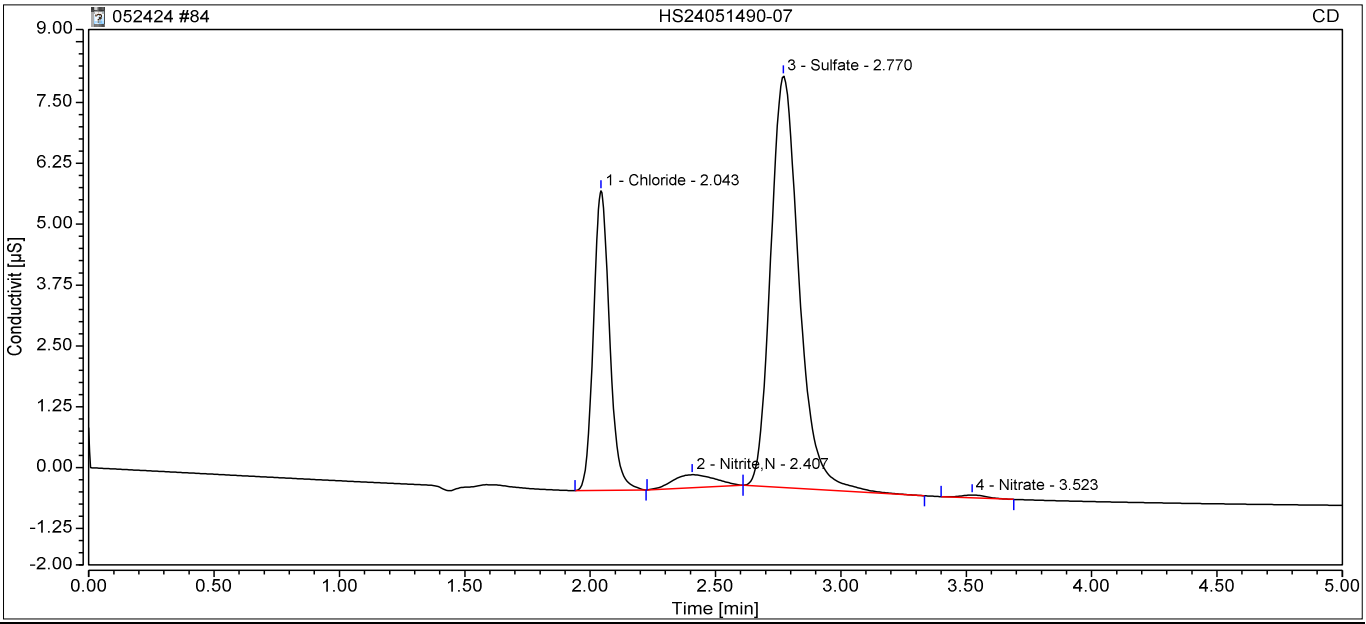
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.59	Fluoride	BMB	0.007	0.1509	0.1509	1.0000
2	2.04	Chloride	BMB	0.421	3.0973	3.0973	1.0000
3	2.42	Nitrite,N	BMB	0.057	0.2236	0.2236	1.0000
4	2.77	Sulfate	BMB	1.100	11.2448	11.2448	1.0000
n.a.	n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	1.0000
5	3.52	Nitrate	BMB	0.006	0.1085	0.1085	1.0000
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**1.592**		**14.83**	

84 HS24051490-07

Sample Name:	**HS24051490-07**	*Injection Volume:*	**5.00**
Vial Number:	**GC6**	*Channel:*	**CD**
Sample Type:	**Unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**05/25/2024 01:13**	*Sample Weight:*	**1.0000**

Run Time:



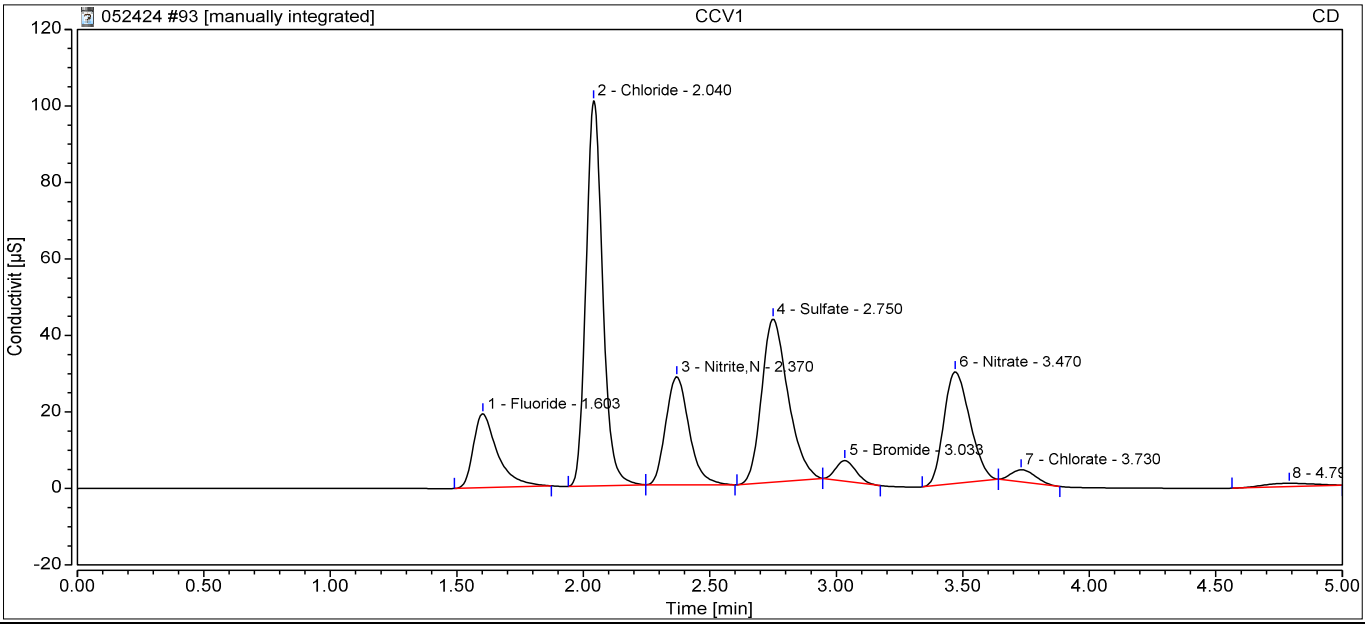
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
n.a.	n.a.	Fluoride	n.a.	n.a.	n.a.	n.a.	1.0000
1	2.04	Chloride	BMB	0.460	3.3505	3.3505	1.0000
2	2.41	Nitrite,N	BMB	0.052	0.2081	0.2081	1.0000
3	2.77	Sulfate	BMB	1.113	11.3724	11.3724	1.0000
n.a.	n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	1.0000
4	3.52	Nitrate	BMB	0.007	0.1104	0.1104	1.0000
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**1.632**		**15.04**	

93 CCV1

Sample Name:	**CCV1**	*Injection Volume:*	**5.00**
Vial Number:	**R3**	*Channel:*	**CD**
Sample Type:	**Unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**05/25/2024 02:06**	*Sample Weight:*	**1.0000**

Run Time:



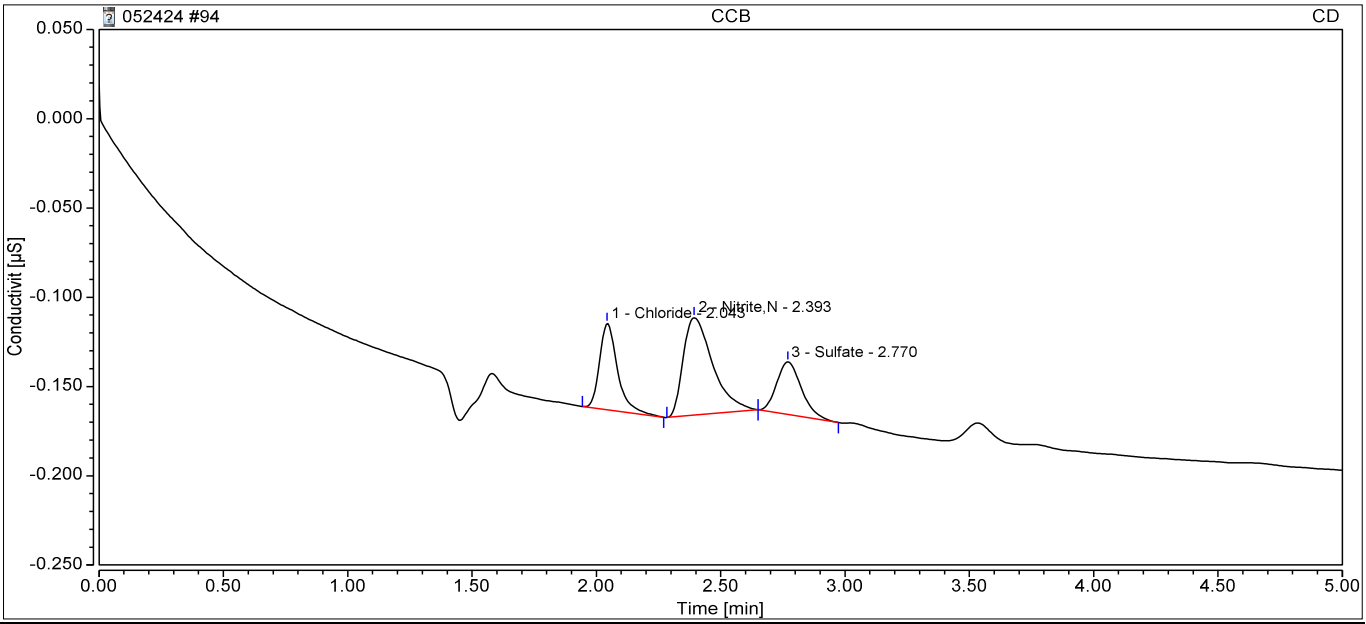
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.60	Fluoride	BMB*	2.135	10.8837	10.8837	1.0000
2	2.04	Chloride	BMB	7.684	49.8798	49.8798	1.0000
3	2.37	Nitrite,N	BMB	3.021	9.9198	9.9198	1.0000
4	2.75	Sulfate	BMB	5.159	50.5273	50.5273	1.0000
5	3.03	Bromide	BMB	0.491	10.5117	10.5117	1.0000
6	3.47	Nitrate	BMB	3.483	10.2455	10.2455	1.0000
7	3.73	Chlorate	BMB	0.356	11.3046	11.3046	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**22.329**		**153.27**	

94 CCB

Sample Name:	**CCB**	*Injection Volume:*	**5.00**
Vial Number:	**R7**	*Channel:*	**CD**
Sample Type:	**Unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**05/25/2024 02:17**	*Sample Weight:*	**1.0000**

Run Time:



Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
n.a.	n.a.	Fluoride	n.a.	n.a.	n.a.	n.a.	1.0000
1	2.04	Chloride	BMB	0.004	0.4125	0.4125	1.0000
2	2.39	Nitrite,N	BMB	0.008	0.0765	0.0765	1.0000
3	2.77	Sulfate	BMB	0.003	0.3989	0.3989	1.0000
n.a.	n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**0.015**		**0.89**	

HS24051490 Wetchem TOC_W 5310B ICAL - A

ALS WO# HS24051490

TOC-Control L Report

Instr.Information

Instrument Options	TOC/ASI/IC Unit/Sparge Kit/
Catalyst	Regular Sensitivity

Cal. Curve

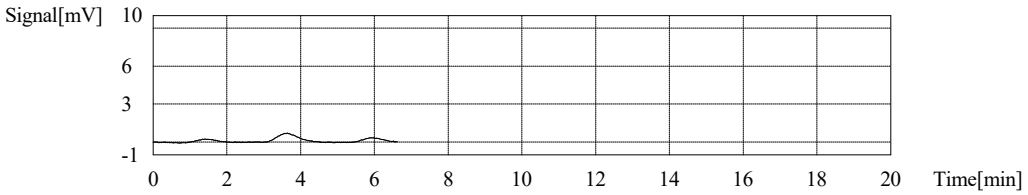
Sample Name:	CAL
Sample ID:	3100608307
Cal. Curve:	04.25.2024.2024_04_25_18_47_38.cal
Status	Completed

Type	Anal.
Standard	NPOC

Conc: 0.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	1.030	50uL	1.000	*******		4/25/2024 7:02:15 PM
2	2.685	50uL	1.000	*******		4/25/2024 7:05:10 PM
3	1.273	50uL	1.000	*******		4/25/2024 7:07:50 PM

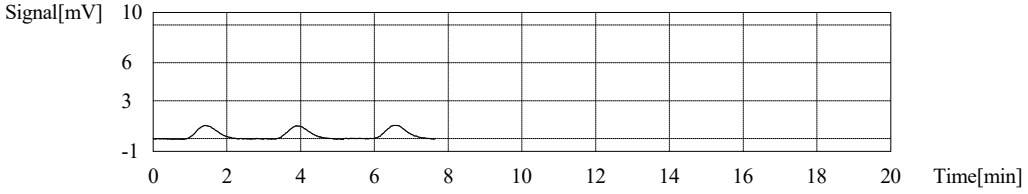
Acid Add. 1.500%
Sp. Time 540.0sec
Mean Area 1.663



Conc: 1.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	4.254	50uL	1.000	*******		4/25/2024 7:12:34 PM
2	4.362	50uL	1.000	*******		4/25/2024 7:15:50 PM
3	4.292	50uL	1.000	*******		4/25/2024 7:18:54 PM

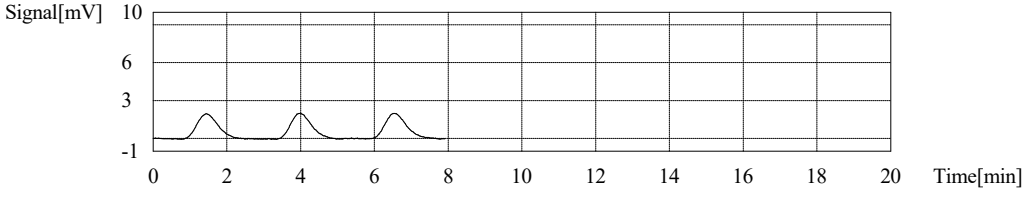
Acid Add. 1.500%
Sp. Time 540.0sec
Mean Area 4.303



Conc: 2.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	7.991	50uL	1.000	*******		4/25/2024 7:23:28 PM
2	8.033	50uL	1.000	*******		4/25/2024 7:26:37 PM
3	8.185	50uL	1.000	*******		4/25/2024 7:29:59 PM

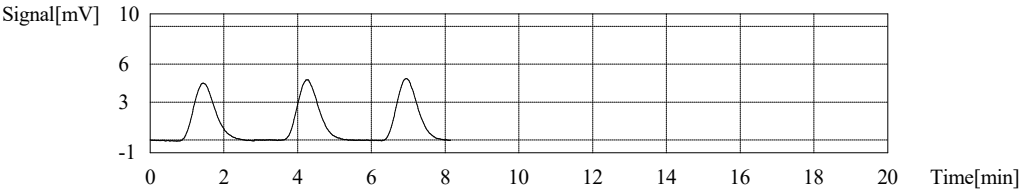
Acid Add. 1.500%
Sp. Time 540.0sec
Mean Area 8.070



Conc: 5.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	18.78	50uL	1.000	*******		4/25/2024 7:34:48 PM
2	19.04	50uL	1.000	*******		4/25/2024 7:38:05 PM
3	19.36	50uL	1.000	*******		4/25/2024 7:41:18 PM

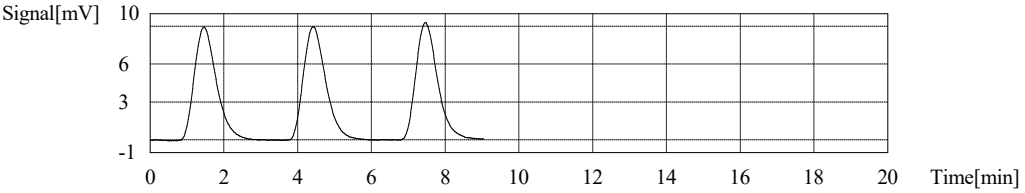
Acid Add. 1.500%
Sp. Time 540.0sec
Mean Area 19.06



Conc: 10.00mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	37.50	50uL	1.000	*******		4/25/2024 7:46:16 PM
2	37.56	50uL	1.000	*******		4/25/2024 7:49:55 PM
3	37.73	50uL	1.000	*******		4/25/2024 7:53:31 PM

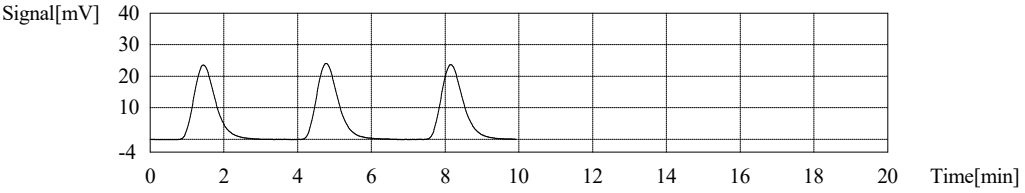
Acid Add. 1.500%
Sp. Time 540.0sec
Mean Area 37.60



Conc: 25.00mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	96.41	50uL	1.000	*******		4/25/2024 7:58:51 PM
2	97.85	50uL	1.000	*******		4/25/2024 8:02:48 PM
3	97.79	50uL	1.000	*******		4/25/2024 8:06:36 PM

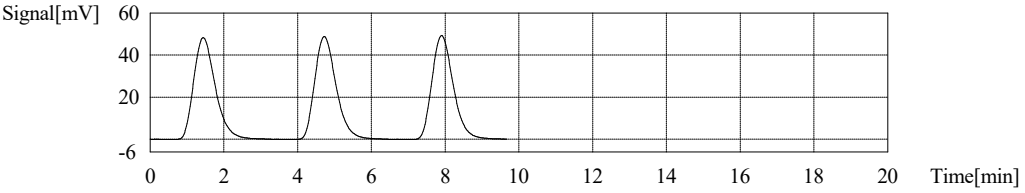
Acid Add. 1.500%
Sp. Time 540.0sec
Mean Area 97.35



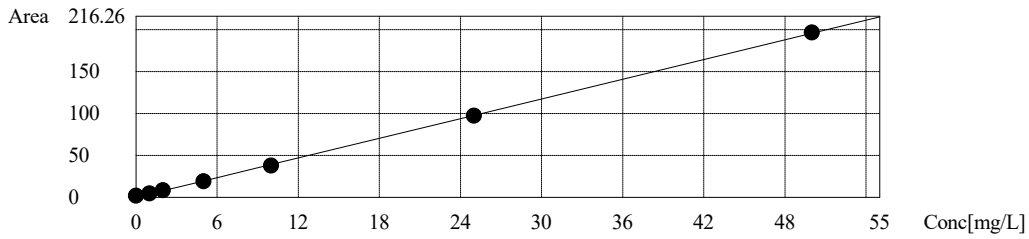
Conc: 50.00mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	196.6	50uL	1.000	*******		4/25/2024 8:11:53 PM
2	196.0	50uL	1.000	*******		4/25/2024 8:15:38 PM
3	197.2	50uL	1.000	*******		4/25/2024 8:19:26 PM

Acid Add. 1.500%
Sp. Time 540.0sec
Mean Area 196.6



Slope:	3.917
Intercept	0.000
r^2	0.9998
r	0.9999
RSE(%)	N/A
Zero Shift	Yes



Sample

Sample Name:	ICV
Sample ID:	3100607917
Origin:	04.25.2024.cal
Status	Completed
Chk. Result	

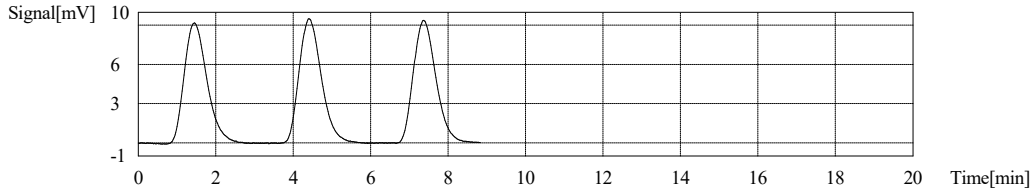
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:9.687mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	37.83	9.657mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	4/25/2024 8:24:23 PM
2	38.23	9.759mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	4/25/2024 8:27:56 PM
3	37.78	9.644mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	4/25/2024 8:31:26 PM

Mean Area	37.95
Mean Conc.	9.687mg/L



Sample

Sample Name:	ICB
Sample ID:	
Origin:	04.25.2024.cal
Status	Completed
Chk. Result	

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.2979mg/L

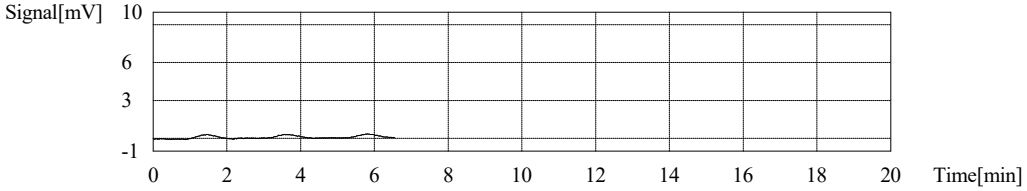
1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	1.387	0.3541mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	4/25/2024 8:45:53 PM
2	1.077	0.2749mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	4/25/2024 8:48:39 PM
3	1.037	0.2647mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	4/25/2024 8:51:24 PM

TOC-Control L Report

Mean Area	1.167
Mean Conc.	0.2979mg/L



HS24051490 Wetchem TOC_W 5310B ICAL - B

ALS WO# HS24051490

TOC-Control L Report

Instr.Information

Instrument Options	TOC/ASI/IC Unit/Sparge Kit/
Catalyst	Regular Sensitivity

Cal. Curve

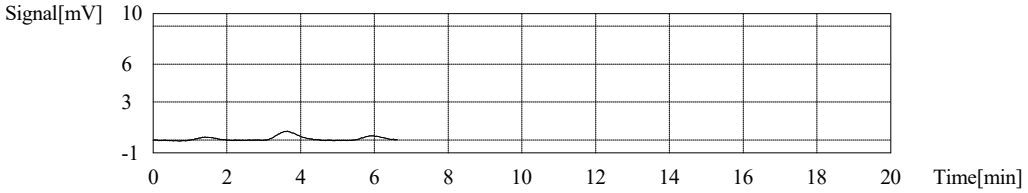
Sample Name:	CAL
Sample ID:	3100608307
Cal. Curve:	04.25.2024.2024_04_25_18_47_38.cal
Status	Completed

Type	Anal.
Standard	NPOC

Conc: 0.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	1.030	50uL	1.000	*******		4/25/2024 7:02:15 PM
2	2.685	50uL	1.000	*******		4/25/2024 7:05:10 PM
3	1.273	50uL	1.000	*******		4/25/2024 7:07:50 PM

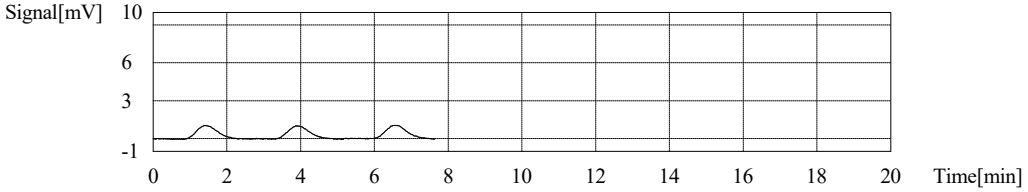
Acid Add. 1.500%
Sp. Time 540.0sec
Mean Area 1.663



Conc: 1.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	4.254	50uL	1.000	*******		4/25/2024 7:12:34 PM
2	4.362	50uL	1.000	*******		4/25/2024 7:15:50 PM
3	4.292	50uL	1.000	*******		4/25/2024 7:18:54 PM

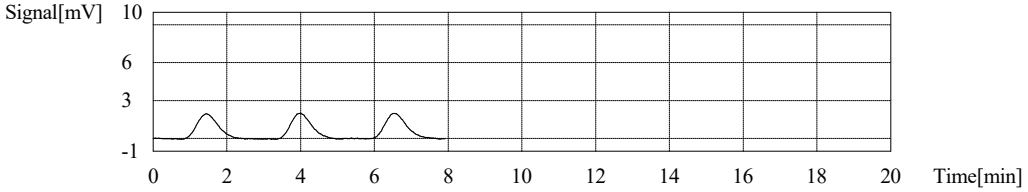
Acid Add. 1.500%
Sp. Time 540.0sec
Mean Area 4.303



Conc: 2.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	7.991	50uL	1.000	*******		4/25/2024 7:23:28 PM
2	8.033	50uL	1.000	*******		4/25/2024 7:26:37 PM
3	8.185	50uL	1.000	*******		4/25/2024 7:29:59 PM

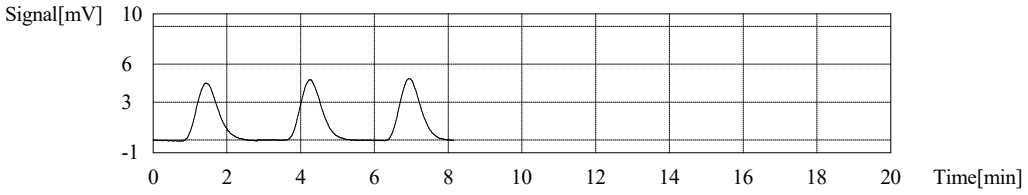
Acid Add. 1.500%
Sp. Time 540.0sec
Mean Area 8.070



Conc: 5.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	18.78	50uL	1.000	*******		4/25/2024 7:34:48 PM
2	19.04	50uL	1.000	*******		4/25/2024 7:38:05 PM
3	19.36	50uL	1.000	*******		4/25/2024 7:41:18 PM

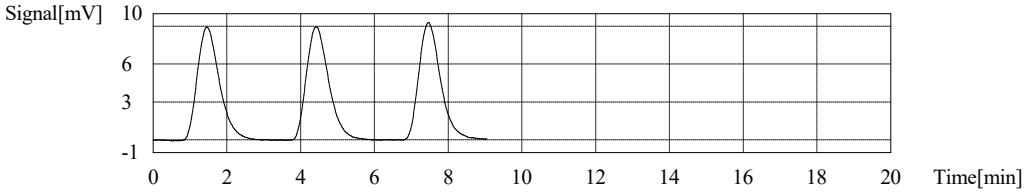
Acid Add. 1.500%
Sp. Time 540.0sec
Mean Area 19.06



Conc: 10.00mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	37.50	50uL	1.000	*******		4/25/2024 7:46:16 PM
2	37.56	50uL	1.000	*******		4/25/2024 7:49:55 PM
3	37.73	50uL	1.000	*******		4/25/2024 7:53:31 PM

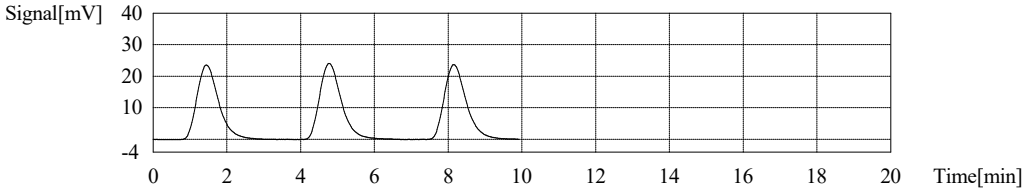
Acid Add. 1.500%
Sp. Time 540.0sec
Mean Area 37.60



Conc: 25.00mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	96.41	50uL	1.000	*******		4/25/2024 7:58:51 PM
2	97.85	50uL	1.000	*******		4/25/2024 8:02:48 PM
3	97.79	50uL	1.000	*******		4/25/2024 8:06:36 PM

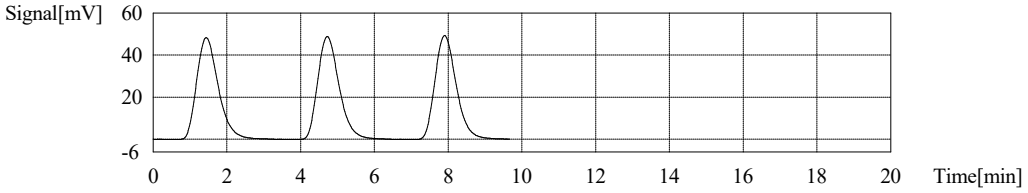
Acid Add. 1.500%
Sp. Time 540.0sec
Mean Area 97.35



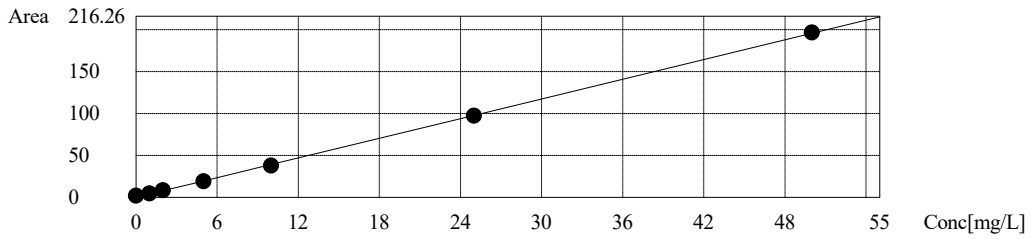
Conc: 50.00mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	196.6	50uL	1.000	*******		4/25/2024 8:11:53 PM
2	196.0	50uL	1.000	*******		4/25/2024 8:15:38 PM
3	197.2	50uL	1.000	*******		4/25/2024 8:19:26 PM

Acid Add. 1.500%
Sp. Time 540.0sec
Mean Area 196.6



Slope:	3.917
Intercept	0.000
r^2	0.9998
r	0.9999
RSE(%)	N/A
Zero Shift	Yes



Sample

Sample Name:	ICV
Sample ID:	3100607917
Origin:	04.25.2024.cal
Status	Completed
Chk. Result	

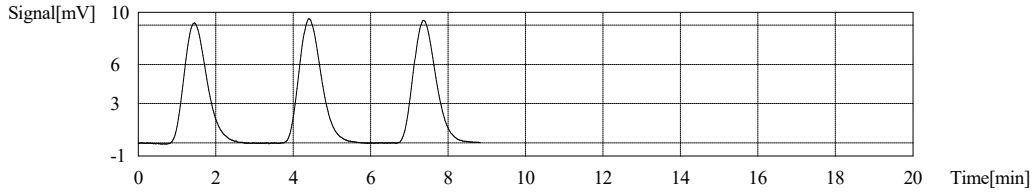
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:9.687mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	37.83	9.657mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	4/25/2024 8:24:23 PM
2	38.23	9.759mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	4/25/2024 8:27:56 PM
3	37.78	9.644mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	4/25/2024 8:31:26 PM

Mean Area	37.95
Mean Conc.	9.687mg/L



Sample

Sample Name:	ICB
Sample ID:	
Origin:	04.25.2024.cal
Status	Completed
Chk. Result	

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.2979mg/L

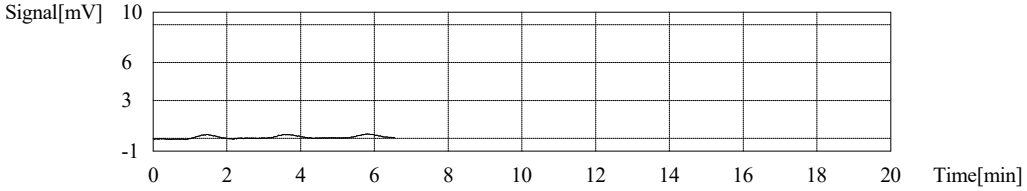
1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	1.387	0.3541mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	4/25/2024 8:45:53 PM
2	1.077	0.2749mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	4/25/2024 8:48:39 PM
3	1.037	0.2647mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	4/25/2024 8:51:24 PM

TOC-Control L Report

Mean Area	1.167
Mean Conc.	0.2979mg/L



HS24051490 Wetchem TOC_W 5310B ICAL TABLE - A

ALS WO# HS24051490

	Type	Analysis	Sample Name	Sample ID	Origin	Manual Diluti	Result 01334589	Notes
1	Standard	NPOC	CAL	3100608307	04.25.2024.	1.000		
2	Unknown	NPOC	ICV	3100607917	04.25.2024.	1.000	NPOC:9.687mg/L	
3	Unknown	NPOC	ICB		04.25.2024.	1.000	NPOC:0.2979mg/L	
4	Unknown	NPOC	CCV	325104207	04.25.2024.	1.000	NPOC:25.03mg/L	
5	Unknown	NPOC	CCB		04.25.2024.	1.000	NPOC:0.06766mg/	
6	Unknown	NPOC	MBLK-04252024		04.25.2024.	1.000	NPOC:0.1478mg/L	
7	Unknown	NPOC	LCS-04252024	3100607917	04.25.2024.	1.000	NPOC:5.144mg/L	
8	Unknown	NPOC	LCSD-04052024		04.25.2024.	1.000	NPOC:5.082mg/L	
9	Unknown	NPOC	HS24041423-01		04.25.2024.	1.000	NPOC:6.750mg/L	
10	Unknown	NPOC	HS24041423-01MS		04.25.2024.	1.000	NPOC:15.86mg/L	
11	Unknown	NPOC	HS24041558-01		04.25.2024.	1.000	NPOC:0.01517mg/	
12	Unknown	NPOC	HS24040953-01		04.25.2024.	1.000	NPOC:10.42mg/L	
13	Unknown	NPOC	HS24040953-04		04.25.2024.	1.000	NPOC:7.332mg/L	
14	Unknown	NPOC	HS24040954-01		04.25.2024.	1.000	NPOC:4.335mg/L	
15	Unknown	NPOC	HS24040954-02		04.25.2024.	1.000	NPOC:8.586mg/L	
16	Unknown	NPOC	CCV	325104207	04.25.2024.	1.000	NPOC:25.04mg/L	
17	Unknown	NPOC	CCB		04.25.2024.	1.000	NPOC:0.09033mg/	
18	Unknown	NPOC	HS24040954-04		04.25.2024.	1.000	NPOC:4.829mg/L	
19	Unknown	NPOC	HS24040954-05		04.25.2024.	1.000	NPOC:0.8624mg/L	
20	Unknown	NPOC	HS24041487-01		04.25.2024.	1.000	NPOC:22.80mg/L	
21	Unknown	NPOC	HS24041698-01DF10		04.25.2024.	1.000	NPOC:0.9665mg/L	
22	Unknown	NPOC	CCV	325104207	04.25.2024.	1.000	NPOC:25.13mg/L	
23	Unknown	NPOC	CCB		04.25.2024.	1.000	NPOC:0.09643mg/	
24	Unknown	NPOC	CCV	325104207	TOC_W 906	1.000	NPOC:24.67mg/L	
25	Unknown	NPOC	CCB		TOC_W 906	1.000	NPOC:0.1426mg/L	
26	Unknown	NPOC	MBLK-04252024		TOC_W 906	1.000	NPOC:0.1161mg/L	
27	Unknown	NPOC	LCS-04252024	3100607917	TOC_W 906	1.000	NPOC:5.011mg/L	
28	Unknown	NPOC	LCSD-04052024		TOC_W 906	1.000	NPOC:5.047mg/L	
29	Unknown	NPOC	HS24041538-14DF10		TOC_W 906	1.000	NPOC:5.009mg/L	
30	Unknown	NPOC	HS24041538-15DF10		TOC_W 906	1.000	NPOC:3.637mg/L	
31	Unknown	NPOC	HS24041538-16DF10		TOC_W 906	1.000	NPOC:3.855mg/L	
32	Unknown	NPOC	HS24041538-17DF10		TOC_W 906	1.000	NPOC:6.520mg/L	
33	Unknown	NPOC	HS24040801-07		TOC_W 906	1.000	NPOC:4.786mg/L	
34	Unknown	NPOC	HS24040801-07MS		TOC_W 906	1.000	NPOC:12.22mg/L	
35	Unknown	NPOC	HS24040885-01		TOC_W 906	1.000	NPOC:59.40mg/L	
36	Unknown	NPOC	CCV	325104207	TOC_W 906	1.000	NPOC:24.81mg/L	
37	Unknown	NPOC	CCB		TOC_W 906	1.000	NPOC:0.2311mg/L	
38	Unknown	NPOC	HS24040885-02		TOC_W 906	1.000	NPOC:40.86mg/L	
39	Unknown	NPOC	HS24040885-03		TOC_W 906	1.000	NPOC:44.30mg/L	
40	Unknown	NPOC	HS24040885-06		TOC_W 906	1.000	NPOC:76.29mg/L	
41	Unknown	NPOC	HS24041341-11DF10		TOC_W 906	1.000	NPOC:9.155mg/L	
42	Unknown	NPOC	HS24041341-12DF10		TOC_W 906	1.000	NPOC:2.129mg/L	
43	Unknown	NPOC	HS24041341-13DF10		TOC_W 906	1.000	NPOC:20.08mg/L	
44	Unknown	NPOC	HS24041341-14DF10		TOC_W 906	1.000	NPOC:2.533mg/L	
45	Unknown	NPOC	HS24041604-08DF10		TOC_W 906	1.000	NPOC:1.071mg/L	
46	Unknown	NPOC	CCV	325104207	TOC_W 906	1.000	NPOC:24.86mg/L	
47	Unknown	NPOC	CCB		TOC_W 906	1.000	NPOC:0.1935mg/L	

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	Status	Date / Time	Vial
1	Completed	4/25/2024 8:19:26	1, 2, 3, 4, 5,
2	Completed	4/25/2024 8:31:26	8
3	Completed	4/25/2024 8:51:24	1
4	Completed	4/25/2024 9:14:05	9
5	Completed	4/25/2024 9:23:12	10
6	Completed	4/25/2024 9:33:46	11
7	Completed	4/25/2024 9:45:46	12
8	Completed	4/25/2024 9:57:15	13
9	Completed	4/25/2024 10:08:5	14
10	Completed	4/25/2024 10:21:0	15
11	Completed	4/25/2024 10:29:5	16
12	Completed	4/25/2024 10:42:5	17
13	Completed	4/25/2024 10:54:4	18
14	Completed	4/25/2024 11:05:5	19
15	Completed	4/25/2024 11:17:2	20
16	Completed	4/25/2024 11:40:1	9
17	Completed	4/25/2024 11:49:1	10
18	Completed	4/26/2024 12:11:1	21
19	Completed	4/26/2024 12:21:3	22
20	Completed	4/26/2024 12:33:5	23
21	Completed	4/26/2024 12:44:1	24
22	Completed	4/26/2024 1:06:44	9
23	Completed	4/26/2024 1:15:39	10
24	Completed	4/26/2024 1:34:03	25
25	Completed	4/26/2024 1:45:52	26
26	Completed	4/26/2024 2:00:42	11
27	Completed	4/26/2024 2:14:48	12
28	Completed	4/26/2024 2:29:16	13
29	Completed	4/26/2024 2:46:43	27
30	Completed	4/26/2024 3:00:36	28
31	Completed	4/26/2024 3:14:21	29
32	Completed	4/26/2024 3:28:38	30
33	Completed	4/26/2024 3:42:41	31
34	Completed	4/26/2024 3:57:39	32
35	Completed	4/26/2024 4:13:23	33
36	Completed	4/26/2024 4:31:56	25
37	Completed	4/26/2024 4:43:46	26
38	Completed	4/26/2024 5:02:09	34
39	Completed	4/26/2024 5:17:31	35
40	Completed	4/26/2024 5:33:05	36
41	Completed	4/26/2024 5:47:28	37
42	Completed	4/26/2024 6:00:56	38
43	Completed	4/26/2024 6:16:22	39
44	Completed	4/26/2024 6:29:56	40
45	Completed	4/26/2024 6:42:50	41
46	Completed	4/26/2024 7:01:22	25
47	Completed	4/26/2024 7:12:55	26

HS24051490 Wetchem TOC_W 5310B ICAL TABLE - B

ALS WO# HS24051490

	Type	Analysis	Sample Name	Sample ID	Origin	Manual Diluti	Result 01334592	Notes
1	Standard	NPOC	CAL	3100608307	04.25.2024.	1.000		
2	Unknown	NPOC	ICV	3100607917	04.25.2024.	1.000	NPOC:9.687mg/L	
3	Unknown	NPOC	ICB		04.25.2024.	1.000	NPOC:0.2979mg/L	
4	Unknown	NPOC	CCV	325104207	04.25.2024.	1.000	NPOC:25.03mg/L	
5	Unknown	NPOC	CCB		04.25.2024.	1.000	NPOC:0.06766mg/	
6	Unknown	NPOC	MBLK-04252024		04.25.2024.	1.000	NPOC:0.1478mg/L	
7	Unknown	NPOC	LCS-04252024	3100607917	04.25.2024.	1.000	NPOC:5.144mg/L	
8	Unknown	NPOC	LCSD-04052024		04.25.2024.	1.000	NPOC:5.082mg/L	
9	Unknown	NPOC	HS24041423-01		04.25.2024.	1.000	NPOC:6.750mg/L	
10	Unknown	NPOC	HS24041423-01MS		04.25.2024.	1.000	NPOC:15.86mg/L	
11	Unknown	NPOC	HS24041558-01		04.25.2024.	1.000	NPOC:0.01517mg/	
12	Unknown	NPOC	HS24040953-01		04.25.2024.	1.000	NPOC:10.42mg/L	
13	Unknown	NPOC	HS24040953-04		04.25.2024.	1.000	NPOC:7.332mg/L	
14	Unknown	NPOC	HS24040954-01		04.25.2024.	1.000	NPOC:4.335mg/L	
15	Unknown	NPOC	HS24040954-02		04.25.2024.	1.000	NPOC:8.586mg/L	
16	Unknown	NPOC	CCV	325104207	04.25.2024.	1.000	NPOC:25.04mg/L	
17	Unknown	NPOC	CCB		04.25.2024.	1.000	NPOC:0.09033mg/	
18	Unknown	NPOC	HS24040954-04		04.25.2024.	1.000	NPOC:4.829mg/L	
19	Unknown	NPOC	HS24040954-05		04.25.2024.	1.000	NPOC:0.8624mg/L	
20	Unknown	NPOC	HS24041487-01		04.25.2024.	1.000	NPOC:22.80mg/L	
21	Unknown	NPOC	HS24041698-01DF10		04.25.2024.	1.000	NPOC:0.9665mg/L	
22	Unknown	NPOC	CCV	325104207	04.25.2024.	1.000	NPOC:25.13mg/L	
23	Unknown	NPOC	CCB		04.25.2024.	1.000	NPOC:0.09643mg/	
24	Unknown	NPOC	CCV	325104207	TOC_W 906	1.000	NPOC:24.67mg/L	
25	Unknown	NPOC	CCB		TOC_W 906	1.000	NPOC:0.1426mg/L	
26	Unknown	NPOC	MBLK-04252024		TOC_W 906	1.000	NPOC:0.1161mg/L	
27	Unknown	NPOC	LCS-04252024	3100607917	TOC_W 906	1.000	NPOC:5.011mg/L	
28	Unknown	NPOC	LCSD-04052024		TOC_W 906	1.000	NPOC:5.047mg/L	
29	Unknown	NPOC	HS24041538-14DF10		TOC_W 906	1.000	NPOC:5.009mg/L	
30	Unknown	NPOC	HS24041538-15DF10		TOC_W 906	1.000	NPOC:3.637mg/L	
31	Unknown	NPOC	HS24041538-16DF10		TOC_W 906	1.000	NPOC:3.855mg/L	
32	Unknown	NPOC	HS24041538-17DF10		TOC_W 906	1.000	NPOC:6.520mg/L	
33	Unknown	NPOC	HS24040801-07		TOC_W 906	1.000	NPOC:4.786mg/L	
34	Unknown	NPOC	HS24040801-07MS		TOC_W 906	1.000	NPOC:12.22mg/L	
35	Unknown	NPOC	HS24040885-01		TOC_W 906	1.000	NPOC:59.40mg/L	
36	Unknown	NPOC	CCV	325104207	TOC_W 906	1.000	NPOC:24.81mg/L	
37	Unknown	NPOC	CCB		TOC_W 906	1.000	NPOC:0.2311mg/L	
38	Unknown	NPOC	HS24040885-02		TOC_W 906	1.000	NPOC:40.86mg/L	
39	Unknown	NPOC	HS24040885-03		TOC_W 906	1.000	NPOC:44.30mg/L	
40	Unknown	NPOC	HS24040885-06		TOC_W 906	1.000	NPOC:76.29mg/L	
41	Unknown	NPOC	HS24041341-11DF10		TOC_W 906	1.000	NPOC:9.155mg/L	
42	Unknown	NPOC	HS24041341-12DF10		TOC_W 906	1.000	NPOC:2.129mg/L	
43	Unknown	NPOC	HS24041341-13DF10		TOC_W 906	1.000	NPOC:20.08mg/L	
44	Unknown	NPOC	HS24041341-14DF10		TOC_W 906	1.000	NPOC:2.533mg/L	
45	Unknown	NPOC	HS24041604-08DF10		TOC_W 906	1.000	NPOC:1.071mg/L	
46	Unknown	NPOC	CCV	325104207	TOC_W 906	1.000	NPOC:24.86mg/L	
47	Unknown	NPOC	CCB		TOC_W 906	1.000	NPOC:0.1935mg/L	

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	Status	Date / Time	Vial
1	Completed	4/25/2024 8:19:26	1, 2, 3, 4, 5,
2	Completed	4/25/2024 8:31:26	8
3	Completed	4/25/2024 8:51:24	1
4	Completed	4/25/2024 9:14:05	9
5	Completed	4/25/2024 9:23:12	10
6	Completed	4/25/2024 9:33:46	11
7	Completed	4/25/2024 9:45:46	12
8	Completed	4/25/2024 9:57:15	13
9	Completed	4/25/2024 10:08:5	14
10	Completed	4/25/2024 10:21:0	15
11	Completed	4/25/2024 10:29:5	16
12	Completed	4/25/2024 10:42:5	17
13	Completed	4/25/2024 10:54:4	18
14	Completed	4/25/2024 11:05:5	19
15	Completed	4/25/2024 11:17:2	20
16	Completed	4/25/2024 11:40:1	9
17	Completed	4/25/2024 11:49:1	10
18	Completed	4/26/2024 12:11:1	21
19	Completed	4/26/2024 12:21:3	22
20	Completed	4/26/2024 12:33:5	23
21	Completed	4/26/2024 12:44:1	24
22	Completed	4/26/2024 1:06:44	9
23	Completed	4/26/2024 1:15:39	10
24	Completed	4/26/2024 1:34:03	25
25	Completed	4/26/2024 1:45:52	26
26	Completed	4/26/2024 2:00:42	11
27	Completed	4/26/2024 2:14:48	12
28	Completed	4/26/2024 2:29:16	13
29	Completed	4/26/2024 2:46:43	27
30	Completed	4/26/2024 3:00:36	28
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34	Completed	4/26/2024 3:57:39	32
35	Completed	4/26/2024 4:13:23	33
36	Completed	4/26/2024 4:31:56	25
37	Completed	4/26/2024 4:43:46	26
38	Completed	4/26/2024 5:02:09	34
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40	Completed	4/26/2024 5:33:05	36
41	Completed	4/26/2024 5:47:28	37
42	Completed	4/26/2024 6:00:56	38
43	Completed	4/26/2024 6:16:22	39
44	Completed	4/26/2024 6:29:56	40
45	Completed	4/26/2024 6:42:50	41
46	Completed	4/26/2024 7:01:22	25
47	Completed	4/26/2024 7:12:55	26

HS24051490 Wetchem TOC_W 5310B INJECT - A

ALS WO# HS24051490

Instr.Information

Instrument Options TOC/ASI/IC Unit/Sparge Kit/
Catalyst Regular Sensitivity

Sample

Sample Name: CCV
Sample ID: 325104207
Origin: 04.25.2024.cal
Status Completed
Chk. Result

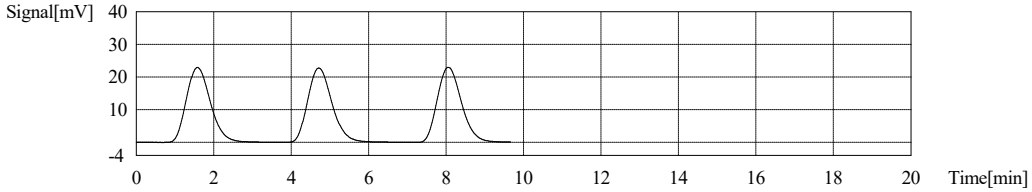
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:25.14mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	98.30	25.09mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	5/31/2024 9:08:48 PM
2	98.50	25.14mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	5/31/2024 9:12:43 PM
3	98.70	25.20mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	5/31/2024 9:16:29 PM

Mean Area 98.50
Mean Conc. 25.14mg/L



Sample

Sample Name: CCB
Sample ID:
Origin: 04.25.2024.cal
Status Completed
Chk. Result

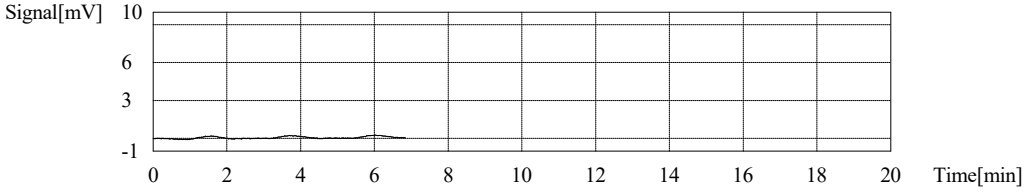
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.2377mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.9413	0.2403mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	5/31/2024 9:20:42 PM
2	0.8790	0.2244mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	5/31/2024 9:23:31 PM
3	0.9732	0.2484mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	5/31/2024 9:26:28 PM

Mean Area 0.9312
Mean Conc. 0.2377mg/L



Sample

Sample Name: MBLK-05292024
Sample ID:
Origin: 04.25.2024.cal
Status Completed
Chk. Result

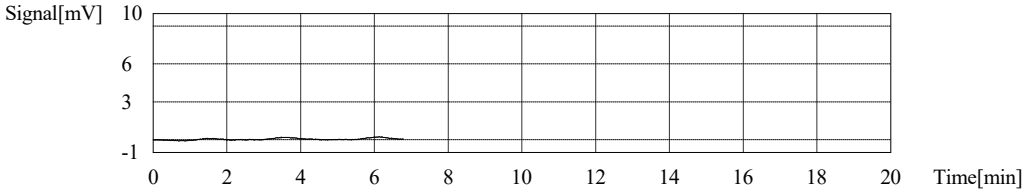
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.1729mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.4332	0.1106mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	5/31/2024 9:30:31 PM
2	0.9359	0.2389mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	5/31/2024 9:33:37 PM
3	0.6631	0.1693mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	5/31/2024 9:36:28 PM

Mean Area 0.6774
Mean Conc. 0.1729mg/L



Sample

Sample Name: LCS-05292024
Sample ID: 3100607917
Origin: 04.25.2024.cal
Status Completed
Chk. Result

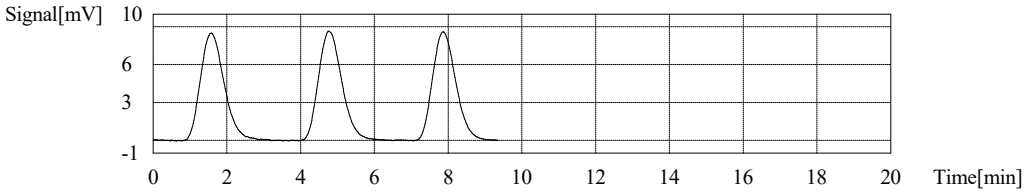
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:9.642mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	37.77	9.642mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	5/31/2024 9:41:46 PM
2	37.89	9.672mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	5/31/2024 9:45:26 PM
3	37.66	9.613mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	5/31/2024 9:49:05 PM

Mean Area 37.77
Mean Conc. 9.642mg/L



Sample

Sample Name: LCSD-05292024
Sample ID:
Origin: 04.25.2024.cal
Status Completed
Chk. Result

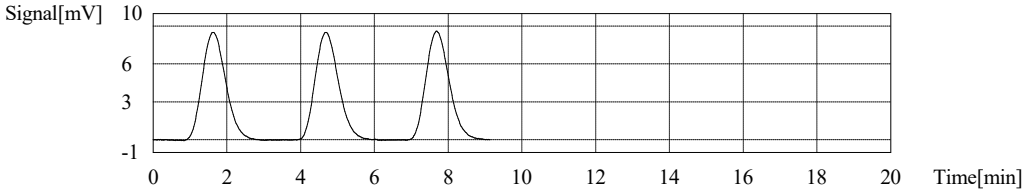
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:9.579mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	37.92	9.680mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	5/31/2024 9:54:10 PM
2	36.98	9.440mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	5/31/2024 9:57:44 PM
3	37.68	9.619mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	5/31/2024 10:01:21 PM

Mean Area 37.53
Mean Conc. 9.579mg/L



Sample

Sample Name: HS24051089-09MS
Sample ID:
Origin: 04.25.2024.cal
Status Completed
Chk. Result

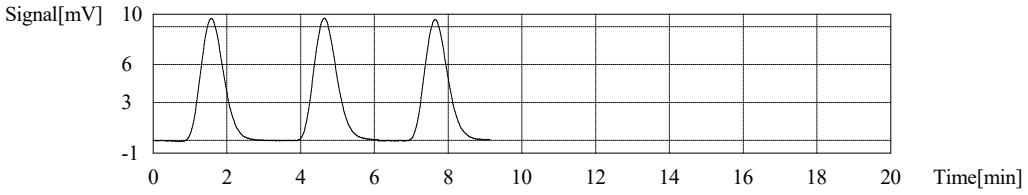
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:10.63mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	42.03	10.73mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	5/31/2024 10:27:51 PM
2	41.49	10.59mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	5/31/2024 10:31:28 PM
3	41.39	10.57mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	5/31/2024 10:35:05 PM

Mean Area 41.64
Mean Conc. 10.63mg/L



Sample

Sample Name: CCV
Sample ID: 325104207
Origin: 04.25.2024.cal
Status Completed
Chk. Result

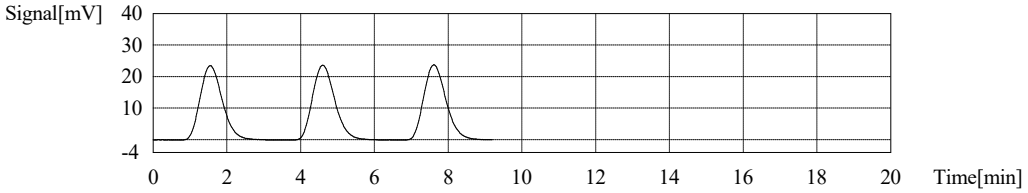
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:25.23mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	97.72	24.95mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	6/1/2024 12:07:33 AM
2	98.94	25.26mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	6/1/2024 12:11:08 AM
3	99.82	25.48mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	6/1/2024 12:14:50 AM

Mean Area 98.83
Mean Conc. 25.23mg/L



Sample

Sample Name: CCB
Sample ID:
Origin: 04.25.2024.cal
Status Completed
Chk. Result

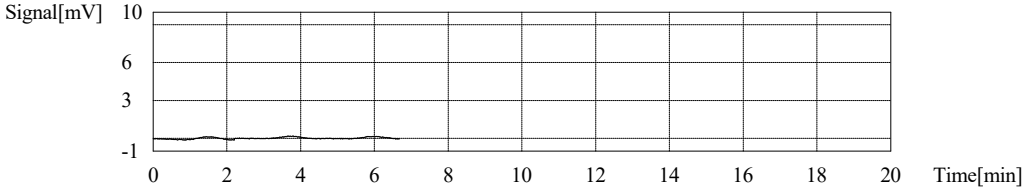
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.1714mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.8145	0.2079mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	6/1/2024 12:19:02 AM
2	0.6164	0.1573mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	6/1/2024 12:21:51 AM
3	0.5832	0.1489mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	6/1/2024 12:24:39 AM

Mean Area 0.6714
Mean Conc. 0.1714mg/L



Sample

Sample Name: HS24051490-04
Sample ID:
Origin: 04.25.2024.cal
Status Completed
Chk. Result

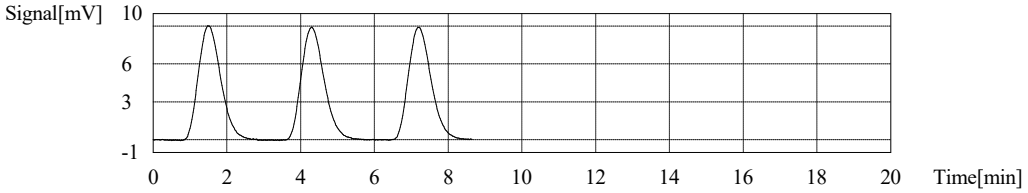
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:9.716mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	38.06	9.716mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	6/1/2024 1:16:53 AM
2	38.29	9.774mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	6/1/2024 1:20:22 AM
3	37.84	9.659mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	6/1/2024 1:23:53 AM

Mean Area 38.06
Mean Conc. 9.716mg/L



Sample

Sample Name: CCV
Sample ID: 325104207
Origin: 04.25.2024.cal
Status Completed
Chk. Result

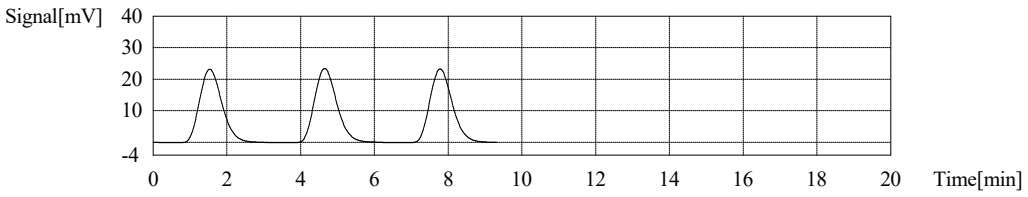
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:25.04mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	98.01	25.02mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	6/1/2024 1:59:06 AM
2	98.37	25.11mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	6/1/2024 2:02:48 AM
3	97.84	24.98mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	6/1/2024 2:06:27 AM

Mean Area 98.07
Mean Conc. 25.04mg/L



Sample

Sample Name: CCB
Sample ID:
Origin: 04.25.2024.cal
Status Completed
Chk. Result

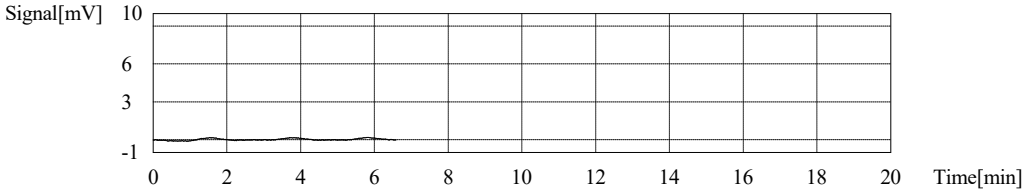
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.1972mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.9590	0.2448mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	6/1/2024 2:10:43 AM
2	0.5755	0.1469mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	6/1/2024 2:13:19 AM
3	0.7833	0.2000mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	6/1/2024 2:16:10 AM

Mean Area 0.7726
Mean Conc. 0.1972mg/L



HS24051490 Wetchem TOC_W 5310B INJECT - B

ALS WO# HS24051490

Instr.Information

Instrument Options TOC/ASI/IC Unit/Sparge Kit/
Catalyst Regular Sensitivity

Sample

Sample Name: CCV
Sample ID: 325104207
Origin: 04.25.2024.cal
Status Completed
Chk. Result

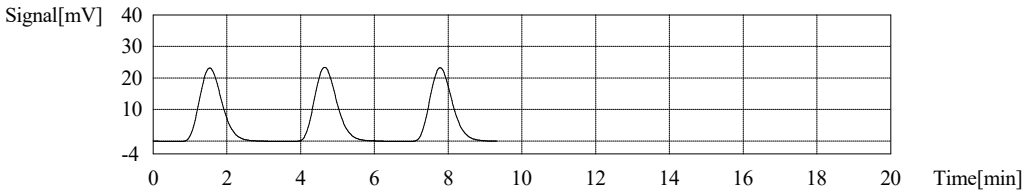
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:25.04mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	98.01	25.02mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	6/1/2024 1:59:06 AM
2	98.37	25.11mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	6/1/2024 2:02:48 AM
3	97.84	24.98mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	6/1/2024 2:06:27 AM

Mean Area 98.07
Mean Conc. 25.04mg/L



Sample

Sample Name: CCB
Sample ID:
Origin: 04.25.2024.cal
Status Completed
Chk. Result

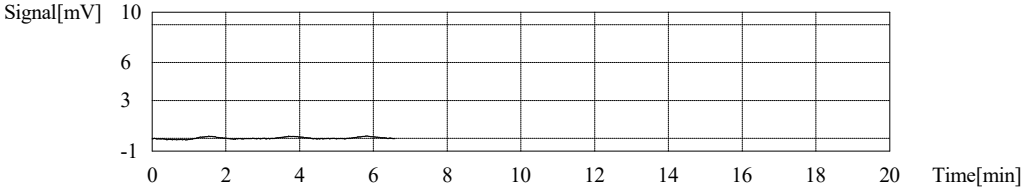
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.1972mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.9590	0.2448mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	6/1/2024 2:10:43 AM
2	0.5755	0.1469mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	6/1/2024 2:13:19 AM
3	0.7833	0.2000mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	6/1/2024 2:16:10 AM

Mean Area 0.7726
Mean Conc. 0.1972mg/L



Sample

Sample Name: MBLK-05292024
Sample ID:
Origin: 04.25.2024.cal
Status Completed
Chk. Result

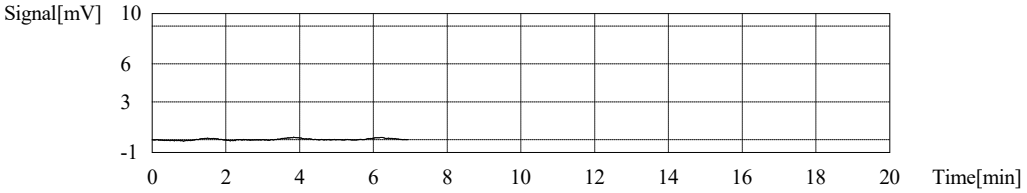
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.1766mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.6878	0.1756mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	6/1/2024 2:30:30 AM
2	0.7886	0.2013mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	6/1/2024 2:33:28 AM
3	0.5990	0.1529mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	6/1/2024 2:36:18 AM

Mean Area 0.6918
Mean Conc. 0.1766mg/L



Sample

Sample Name: LCS-05292024
Sample ID: 3100607917
Origin: 04.25.2024.cal
Status Completed
Chk. Result

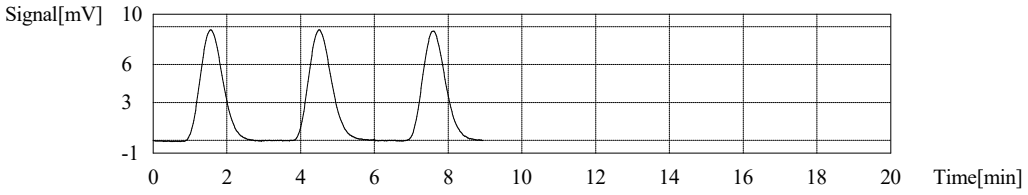
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:9.539mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	37.52	9.578mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	6/1/2024 2:41:15 AM
2	37.43	9.555mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	6/1/2024 2:44:53 AM
3	37.15	9.483mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	6/1/2024 2:48:22 AM

Mean Area 37.37
Mean Conc. 9.539mg/L



Sample

Sample Name: LCSD-05292024
Sample ID:
Origin: 04.25.2024.cal
Status Completed
Chk. Result

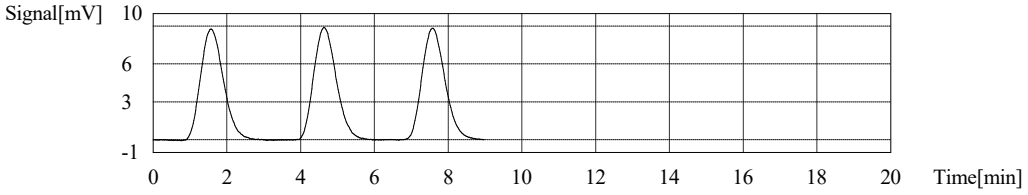
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:9.704mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	38.04	9.710mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	6/1/2024 2:53:26 AM
2	37.88	9.670mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	6/1/2024 2:56:56 AM
3	38.12	9.731mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	6/1/2024 3:00:29 AM

Mean Area 38.01
Mean Conc. 9.704mg/L



Sample

Sample Name: HS24051490-05
Sample ID:
Origin: 04.25.2024.cal
Status Completed
Chk. Result

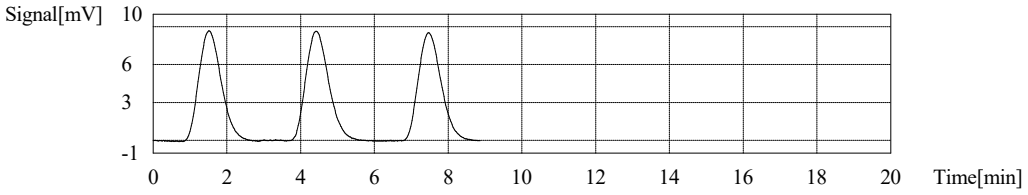
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:9.443mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	36.95	9.432mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	6/1/2024 3:15:42 AM
2	37.42	9.552mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	6/1/2024 3:19:19 AM
3	36.61	9.345mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	6/1/2024 3:22:48 AM

Mean Area 36.99
Mean Conc. 9.443mg/L



Sample

Sample Name: HS24051490-05MS
Sample ID:
Origin: 04.25.2024.cal
Status Completed
Chk. Result

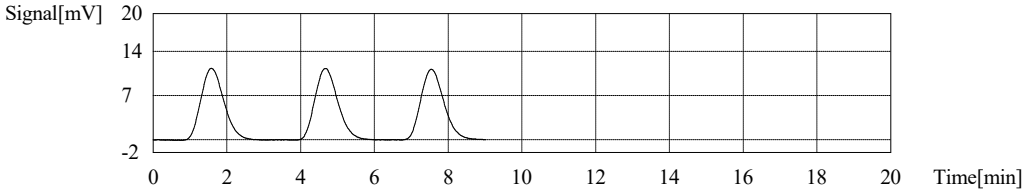
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:12.44mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	49.36	12.60mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	6/1/2024 3:27:54 AM
2	48.33	12.34mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	6/1/2024 3:31:20 AM
3	48.51	12.38mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	6/1/2024 3:34:57 AM

Mean Area 48.73
Mean Conc. 12.44mg/L



Sample

Sample Name: HS24051490-06
Sample ID:
Origin: 04.25.2024.cal
Status Completed
Chk. Result

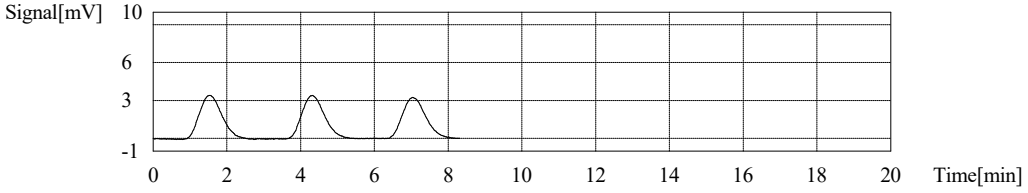
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:3.713mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	14.96	3.819mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	6/1/2024 3:39:44 AM
2	14.56	3.717mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	6/1/2024 3:43:01 AM
3	14.12	3.604mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	6/1/2024 3:46:24 AM

Mean Area 14.55
Mean Conc. 3.713mg/L



Sample

Sample Name: HS24051490-07
Sample ID:
Origin: 04.25.2024.cal
Status Completed
Chk. Result

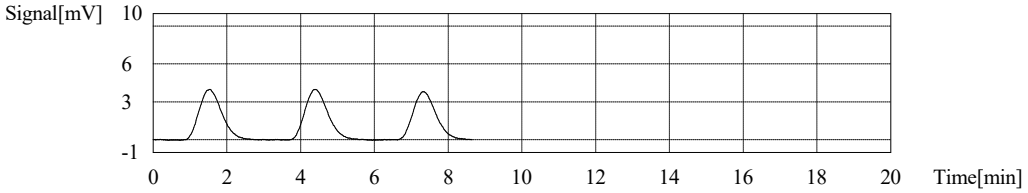
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:4.299mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	17.01	4.342mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	6/1/2024 3:51:16 AM
2	17.18	4.386mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	6/1/2024 3:54:47 AM
3	16.33	4.169mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	6/1/2024 3:58:11 AM

Mean Area 16.84
Mean Conc. 4.299mg/L



Sample

Sample Name: CCV
Sample ID: 325104207
Origin: 04.25.2024.cal
Status Completed
Chk. Result

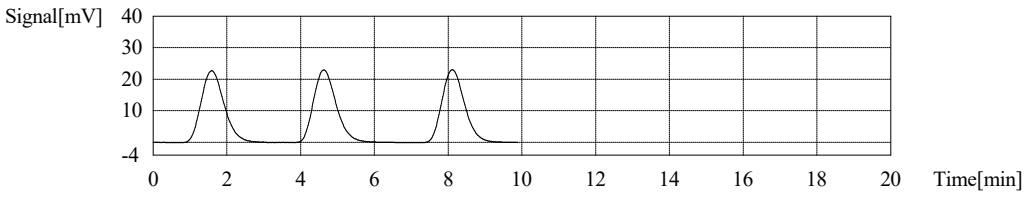
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:25.04mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	98.14	25.05mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	6/1/2024 5:11:22 AM
2	97.93	25.00mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	6/1/2024 5:15:23 AM
3	98.16	25.06mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	6/1/2024 5:19:18 AM

Mean Area 98.08
Mean Conc. 25.04mg/L



Sample

Sample Name: CCB
Sample ID:
Origin: 04.25.2024.cal
Status Completed
Chk. Result

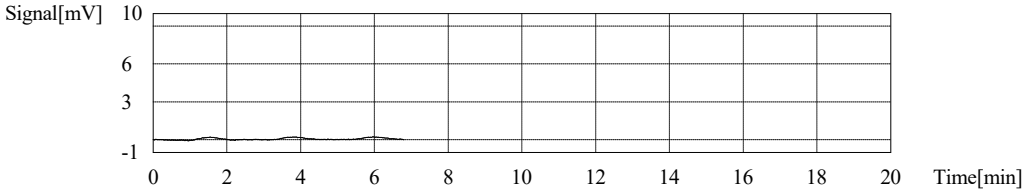
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.1938mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.9308	0.2376mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	6/1/2024 5:23:32 AM
2	0.6669	0.1702mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	6/1/2024 5:26:17 AM
3	0.6801	0.1736mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	6/1/2024 5:29:14 AM

Mean Area 0.7593
Mean Conc. 0.1938mg/L



Sample

Sample Name: CCV
Sample ID: 325104207
Origin: 04.25.2024.cal
Status Completed
Chk. Result

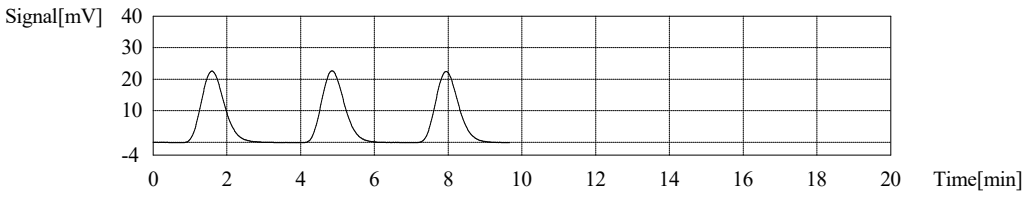
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:24.97mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	98.19	25.07mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	6/1/2024 6:24:14 AM
2	97.68	24.93mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	6/1/2024 6:27:54 AM
3	97.59	24.91mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	6/1/2024 6:31:48 AM

Mean Area 97.82
Mean Conc. 24.97mg/L



Sample

Sample Name: CCB
Sample ID:
Origin: 04.25.2024.cal
Status Completed
Chk. Result

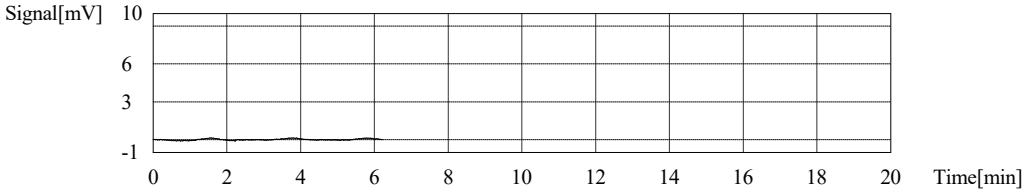
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.1089mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.6049	0.1544mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	6/1/2024 6:36:03 AM
2	0.3377	0.08620mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	6/1/2024 6:38:38 AM
3	0.3375	0.08615mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	6/1/2024 6:41:09 AM

Mean Area 0.4267
Mean Conc. 0.1089mg/L



HS24051490 Wetchem TOC_W 5310B INJECT TABLE - A

ALS WO# HS24051490

	Type	Analysis	Sample Name	Sample ID	Origin	Manual Diluti	Result 01334610	Notes
1	Unknown	NPOC	CCV	325104207	04.25.2024.	1.000	NPOC:24.92mg/L	
2	Unknown	NPOC	CCB		04.25.2024.	1.000	NPOC:0.2456mg/L	
3	Unknown	NPOC	MBLK-05292024		04.25.2024.	1.000	NPOC:0.1620mg/L	
4	Unknown	NPOC	LCS-05292024	3100607917	04.25.2024.	1.000	NPOC:9.532mg/L	
5	Unknown	NPOC	LCSD-05292024		04.25.2024.	1.000	NPOC:9.659mg/L	
6	Unknown	NPOC	HS24051544-01		04.25.2024.	1.000	NPOC:15.23mg/L	
7	Unknown	NPOC	HS24051544-01MS		04.25.2024.	1.000	NPOC:23.12mg/L	
8	Unknown	NPOC	HS24051338-01		04.25.2024.	1.000	NPOC:20.27mg/L	
9	Unknown	NPOC	HS24051338-02		04.25.2024.	1.000	NPOC:18.68mg/L	
10	Unknown	NPOC	HS24051338-03		04.25.2024.	1.000	NPOC:19.91mg/L	
11	Unknown	NPOC	HS24051338-04		04.25.2024.	1.000	NPOC:14.18mg/L	
12	Unknown	NPOC	HS24051338-05		04.25.2024.	1.000	NPOC:43.09mg/L	
13	Unknown	NPOC	CCV	325104207	04.25.2024.	1.000	NPOC:24.98mg/L	
14	Unknown	NPOC	CCB		04.25.2024.	1.000	NPOC:0.2265mg/L	
15	Unknown	NPOC	HS24051089-01		04.25.2024.	1.000	NPOC:33.49mg/L	
16	Unknown	NPOC	HS24051089-03		04.25.2024.	1.000	NPOC:19.03mg/L	
17	Unknown	NPOC	HS24051089-04		04.25.2024.	1.000	NPOC:10.79mg/L	
18	Unknown	NPOC	HS24051089-08		04.25.2024.	1.000	NPOC:3.748mg/L	
19	Unknown	NPOC	CCV	325104207	04.25.2024.	1.000	NPOC:25.14mg/L	
20	Unknown	NPOC	CCB		04.25.2024.	1.000	NPOC:0.2377mg/L	
21	Unknown	NPOC	MBLK-05292024		04.25.2024.	1.000	NPOC:0.1729mg/L	
22	Unknown	NPOC	LCS-05292024	3100607917	04.25.2024.	1.000	NPOC:9.642mg/L	
23	Unknown	NPOC	LCSD-05292024		04.25.2024.	1.000	NPOC:9.579mg/L	
24	Unknown	NPOC	HS24051089-09		04.25.2024.	1.000	NPOC:2.904mg/L	
25	Unknown	NPOC	HS24051089-09MS		04.25.2024.	1.000	NPOC:10.63mg/L	
26	Unknown	NPOC	HS24051089-13		04.25.2024.	1.000	NPOC:1.977mg/L	
27	Unknown	NPOC	HS24051089-14		04.25.2024.	1.000	NPOC:3.131mg/L	
28	Unknown	NPOC	HS24051089-15		04.25.2024.	1.000	NPOC:3.066mg/L	
29	Unknown	NPOC	HS24051089-17		04.25.2024.	1.000	NPOC:1.939mg/L	
30	Unknown	NPOC	HS24051308-01		04.25.2024.	1.000	NPOC:5.593mg/L	
31	Unknown	NPOC	CCV	325104207	04.25.2024.	1.000	NPOC:25.23mg/L	
32	Unknown	NPOC	CCB		04.25.2024.	1.000	NPOC:0.1714mg/L	
33	Unknown	NPOC	HS24051308-02		04.25.2024.	1.000	NPOC:6.014mg/L	
34	Unknown	NPOC	HS24051308-03		04.25.2024.	1.000	NPOC:12.67mg/L	
35	Unknown	NPOC	HS24051437-01		04.25.2024.	1.000	NPOC:6.911mg/L	
36	Unknown	NPOC	HS24051490-04		04.25.2024.	1.000	NPOC:9.716mg/L	
37	Unknown	NPOC	CCV	325104207	04.25.2024.	1.000	NPOC:25.04mg/L	
38	Unknown	NPOC	CCB		04.25.2024.	1.000	NPOC:0.1972mg/L	
39	Unknown	NPOC	MBLK-05292024		04.25.2024.	1.000	NPOC:0.1766mg/L	
40	Unknown	NPOC	LCS-05292024	3100607917	04.25.2024.	1.000	NPOC:9.539mg/L	
41	Unknown	NPOC	LCSD-05292024		04.25.2024.	1.000	NPOC:9.704mg/L	
42	Unknown	NPOC	HS24051490-05		04.25.2024.	1.000	NPOC:9.443mg/L	
43	Unknown	NPOC	HS24051490-05MS		04.25.2024.	1.000	NPOC:12.44mg/L	
44	Unknown	NPOC	HS24051490-06		04.25.2024.	1.000	NPOC:3.713mg/L	
45	Unknown	NPOC	HS24051490-07		04.25.2024.	1.000	NPOC:4.299mg/L	
46	Unknown	NPOC	HS24051498-01		04.25.2024.	1.000	NPOC:11.41mg/L	
47	Unknown	NPOC	HS24051630-01		04.25.2024.	1.000	NPOC:313.2mg/L	
48	Unknown	NPOC	HS24051746-01		04.25.2024.	1.000	NPOC:7.538mg/L	
49	Unknown	NPOC	CCV	325104207	04.25.2024.	1.000	NPOC:25.04mg/L	
50	Unknown	NPOC	CCB		04.25.2024.	1.000	NPOC:0.1938mg/L	
51	Unknown	NPOC	HS24051817-01		04.25.2024.	1.000	NPOC:0.09011mg/	
52	Unknown	NPOC	HS24051817-04		04.25.2024.	1.000	NPOC:0.06790mg/	
53	Unknown	NPOC	CCV	325104207	04.25.2024.	1.000	NPOC:24.97mg/L	

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	Status	Date / Time	Vial
1	Completed	5/31/2024 4:24:55	1
2	Completed	5/31/2024 4:35:10	2
3	Completed	5/31/2024 4:45:08	3
4	Completed	5/31/2024 4:57:28	4
5	Completed	5/31/2024 5:09:53	5
6	Completed	5/31/2024 5:22:38	6
7	Completed	5/31/2024 5:35:23	7
8	Completed	5/31/2024 5:48:34	8
9	Completed	5/31/2024 6:01:18	9
10	Completed	5/31/2024 6:14:01	10
11	Completed	5/31/2024 6:26:40	11
12	Completed	5/31/2024 6:40:18	12
13	Completed	5/31/2024 7:23:32	1
14	Completed	5/31/2024 7:33:48	2
15	Completed	5/31/2024 7:56:54	13
16	Completed	5/31/2024 8:09:36	14
17	Completed	5/31/2024 8:21:50	15
18	Completed	5/31/2024 8:33:33	16
19	Completed	5/31/2024 9:16:29	1
20	Completed	5/31/2024 9:26:28	2
21	Completed	5/31/2024 9:36:28	3
22	Completed	5/31/2024 9:49:05	4
23	Completed	5/31/2024 10:01:2	5
24	Completed	5/31/2024 10:22:4	17
25	Completed	5/31/2024 10:35:0	18
26	Completed	5/31/2024 10:46:1	19
27	Completed	5/31/2024 10:57:4	20
28	Completed	5/31/2024 11:09:1	21
29	Completed	5/31/2024 11:20:1	22
30	Completed	5/31/2024 11:32:2	23
31	Completed	6/1/2024 12:14:50	24
32	Completed	6/1/2024 12:24:39	25
33	Completed	6/1/2024 12:37:12	26
34	Completed	6/1/2024 1:00:17 A	27
35	Completed	6/1/2024 1:12:04 A	28
36	Completed	6/1/2024 1:23:53 A	29
37	Completed	6/1/2024 2:06:27 A	24
38	Completed	6/1/2024 2:16:10 A	25
39	Completed	6/1/2024 2:36:18 A	3
40	Completed	6/1/2024 2:48:22 A	4
41	Completed	6/1/2024 3:00:29 A	5
42	Completed	6/1/2024 3:22:48 A	30
43	Completed	6/1/2024 3:34:57 A	31
44	Completed	6/1/2024 3:46:24 A	32
45	Completed	6/1/2024 3:58:11 A	33
46	Completed	6/1/2024 4:10:09 A	34
47	Completed	6/1/2024 4:24:16 A	35
48	Completed	6/1/2024 4:36:07 A	36
49	Completed	6/1/2024 5:19:18 A	37
50	Completed	6/1/2024 5:29:14 A	38
51	Completed	6/1/2024 5:38:49 A	39
52	Completed	6/1/2024 5:48:38 A	40
53	Completed	6/1/2024 6:31:48 A	37

	Type	Analysis	Sample Name	Sample ID	Origin	Manual Diluti	Result 01334612	Notes
54	Unknown	NPOC	CCB		04.25.2024.	1.000	NPOC:0.1089mg/L	

	Status	Date / Time	Vial
54	Completed	6/1/2024 6:41:09 A	38

01334613

HS24051490 Wetchem TOC_W 5310B INJECT TABLE - B

ALS WO# HS24051490

	Type	Analysis	Sample Name	Sample ID	Origin	Manual Diluti	Result 01334615	Notes
1	Unknown	NPOC	CCV	325104207	04.25.2024.	1.000	NPOC:24.92mg/L	
2	Unknown	NPOC	CCB		04.25.2024.	1.000	NPOC:0.2456mg/L	
3	Unknown	NPOC	MBLK-05292024		04.25.2024.	1.000	NPOC:0.1620mg/L	
4	Unknown	NPOC	LCS-05292024	3100607917	04.25.2024.	1.000	NPOC:9.532mg/L	
5	Unknown	NPOC	LCSD-05292024		04.25.2024.	1.000	NPOC:9.659mg/L	
6	Unknown	NPOC	HS24051544-01		04.25.2024.	1.000	NPOC:15.23mg/L	
7	Unknown	NPOC	HS24051544-01MS		04.25.2024.	1.000	NPOC:23.12mg/L	
8	Unknown	NPOC	HS24051338-01		04.25.2024.	1.000	NPOC:20.27mg/L	
9	Unknown	NPOC	HS24051338-02		04.25.2024.	1.000	NPOC:18.68mg/L	
10	Unknown	NPOC	HS24051338-03		04.25.2024.	1.000	NPOC:19.91mg/L	
11	Unknown	NPOC	HS24051338-04		04.25.2024.	1.000	NPOC:14.18mg/L	
12	Unknown	NPOC	HS24051338-05		04.25.2024.	1.000	NPOC:43.09mg/L	
13	Unknown	NPOC	CCV	325104207	04.25.2024.	1.000	NPOC:24.98mg/L	
14	Unknown	NPOC	CCB		04.25.2024.	1.000	NPOC:0.2265mg/L	
15	Unknown	NPOC	HS24051089-01		04.25.2024.	1.000	NPOC:33.49mg/L	
16	Unknown	NPOC	HS24051089-03		04.25.2024.	1.000	NPOC:19.03mg/L	
17	Unknown	NPOC	HS24051089-04		04.25.2024.	1.000	NPOC:10.79mg/L	
18	Unknown	NPOC	HS24051089-08		04.25.2024.	1.000	NPOC:3.748mg/L	
19	Unknown	NPOC	CCV	325104207	04.25.2024.	1.000	NPOC:25.14mg/L	
20	Unknown	NPOC	CCB		04.25.2024.	1.000	NPOC:0.2377mg/L	
21	Unknown	NPOC	MBLK-05292024		04.25.2024.	1.000	NPOC:0.1729mg/L	
22	Unknown	NPOC	LCS-05292024	3100607917	04.25.2024.	1.000	NPOC:9.642mg/L	
23	Unknown	NPOC	LCSD-05292024		04.25.2024.	1.000	NPOC:9.579mg/L	
24	Unknown	NPOC	HS24051089-09		04.25.2024.	1.000	NPOC:2.904mg/L	
25	Unknown	NPOC	HS24051089-09MS		04.25.2024.	1.000	NPOC:10.63mg/L	
26	Unknown	NPOC	HS24051089-13		04.25.2024.	1.000	NPOC:1.977mg/L	
27	Unknown	NPOC	HS24051089-14		04.25.2024.	1.000	NPOC:3.131mg/L	
28	Unknown	NPOC	HS24051089-15		04.25.2024.	1.000	NPOC:3.066mg/L	
29	Unknown	NPOC	HS24051089-17		04.25.2024.	1.000	NPOC:1.939mg/L	
30	Unknown	NPOC	HS24051308-01		04.25.2024.	1.000	NPOC:5.593mg/L	
31	Unknown	NPOC	CCV	325104207	04.25.2024.	1.000	NPOC:25.23mg/L	
32	Unknown	NPOC	CCB		04.25.2024.	1.000	NPOC:0.1714mg/L	
33	Unknown	NPOC	HS24051308-02		04.25.2024.	1.000	NPOC:6.014mg/L	
34	Unknown	NPOC	HS24051308-03		04.25.2024.	1.000	NPOC:12.67mg/L	
35	Unknown	NPOC	HS24051437-01		04.25.2024.	1.000	NPOC:6.911mg/L	
36	Unknown	NPOC	HS24051490-04		04.25.2024.	1.000	NPOC:9.716mg/L	
37	Unknown	NPOC	CCV	325104207	04.25.2024.	1.000	NPOC:25.04mg/L	
38	Unknown	NPOC	CCB		04.25.2024.	1.000	NPOC:0.1972mg/L	
39	Unknown	NPOC	MBLK-05292024		04.25.2024.	1.000	NPOC:0.1766mg/L	
40	Unknown	NPOC	LCS-05292024	3100607917	04.25.2024.	1.000	NPOC:9.539mg/L	
41	Unknown	NPOC	LCSD-05292024		04.25.2024.	1.000	NPOC:9.704mg/L	
42	Unknown	NPOC	HS24051490-05		04.25.2024.	1.000	NPOC:9.443mg/L	
43	Unknown	NPOC	HS24051490-05MS		04.25.2024.	1.000	NPOC:12.44mg/L	
44	Unknown	NPOC	HS24051490-06		04.25.2024.	1.000	NPOC:3.713mg/L	
45	Unknown	NPOC	HS24051490-07		04.25.2024.	1.000	NPOC:4.299mg/L	
46	Unknown	NPOC	HS24051498-01		04.25.2024.	1.000	NPOC:11.41mg/L	
47	Unknown	NPOC	HS24051630-01		04.25.2024.	1.000	NPOC:313.2mg/L	
48	Unknown	NPOC	HS24051746-01		04.25.2024.	1.000	NPOC:7.538mg/L	
49	Unknown	NPOC	CCV	325104207	04.25.2024.	1.000	NPOC:25.04mg/L	
50	Unknown	NPOC	CCB		04.25.2024.	1.000	NPOC:0.1938mg/L	
51	Unknown	NPOC	HS24051817-01		04.25.2024.	1.000	NPOC:0.09011mg/	
52	Unknown	NPOC	HS24051817-04		04.25.2024.	1.000	NPOC:0.06790mg/	
53	Unknown	NPOC	CCV	325104207	04.25.2024.	1.000	NPOC:24.97mg/L	

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	Status	Date / Time	Vial
1	Completed	5/31/2024 4:24:55	1
2	Completed	5/31/2024 4:35:10	2
3	Completed	5/31/2024 4:45:08	3
4	Completed	5/31/2024 4:57:28	4
5	Completed	5/31/2024 5:09:53	5
6	Completed	5/31/2024 5:22:38	6
7	Completed	5/31/2024 5:35:23	7
8	Completed	5/31/2024 5:48:34	8
9	Completed	5/31/2024 6:01:18	9
10	Completed	5/31/2024 6:14:01	10
11	Completed	5/31/2024 6:26:40	11
12	Completed	5/31/2024 6:40:18	12
13	Completed	5/31/2024 7:23:32	1
14	Completed	5/31/2024 7:33:48	2
15	Completed	5/31/2024 7:56:54	13
16	Completed	5/31/2024 8:09:36	14
17	Completed	5/31/2024 8:21:50	15
18	Completed	5/31/2024 8:33:33	16
19	Completed	5/31/2024 9:16:29	1
20	Completed	5/31/2024 9:26:28	2
21	Completed	5/31/2024 9:36:28	3
22	Completed	5/31/2024 9:49:05	4
23	Completed	5/31/2024 10:01:2	5
24	Completed	5/31/2024 10:22:4	17
25	Completed	5/31/2024 10:35:0	18
26	Completed	5/31/2024 10:46:1	19
27	Completed	5/31/2024 10:57:4	20
28	Completed	5/31/2024 11:09:1	21
29	Completed	5/31/2024 11:20:1	22
30	Completed	5/31/2024 11:32:2	23
31	Completed	6/1/2024 12:14:50	24
32	Completed	6/1/2024 12:24:39	25
33	Completed	6/1/2024 12:37:12	26
34	Completed	6/1/2024 1:00:17 A	27
35	Completed	6/1/2024 1:12:04 A	28
36	Completed	6/1/2024 1:23:53 A	29
37	Completed	6/1/2024 2:06:27 A	24
38	Completed	6/1/2024 2:16:10 A	25
39	Completed	6/1/2024 2:36:18 A	3
40	Completed	6/1/2024 2:48:22 A	4
41	Completed	6/1/2024 3:00:29 A	5
42	Completed	6/1/2024 3:22:48 A	30
43	Completed	6/1/2024 3:34:57 A	31
44	Completed	6/1/2024 3:46:24 A	32
45	Completed	6/1/2024 3:58:11 A	33
46	Completed	6/1/2024 4:10:09 A	34
47	Completed	6/1/2024 4:24:16 A	35
48	Completed	6/1/2024 4:36:07 A	36
49	Completed	6/1/2024 5:19:18 A	37
50	Completed	6/1/2024 5:29:14 A	38
51	Completed	6/1/2024 5:38:49 A	39
52	Completed	6/1/2024 5:48:38 A	40
53	Completed	6/1/2024 6:31:48 A	37

	Type	Analysis	Sample Name	Sample ID	Origin	Manual Diluti	Result 01334617	Notes
54	Unknown	NPOC	CCB		04.25.2024.	1.000	NPOC:0.1089mg/L	

	Status	Date / Time	Vial
54	Completed	6/1/2024 6:41:09 A	38

01334618

HS24051490 E2400588 Perch Level IV Report

ALS WO# HS24051490

June 11, 2024 Service Request No:E2400588

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

Laboratory Results for: HS24051490

Dear Luis,

Enclosed are the results of the sample(s) submitted to our laboratory May 24, 2024
For your reference, these analyses have been assigned our service request number **E2400588.**

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 2190. You may also contact me via email at hussam.kelany@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

H Kelany

Hussam Kelany
Project Manager

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

Client:	ALS Environmental - US	**Service Request No.:**	E2400588
Project:	HS24051490	**Date Received:**	05/24/24
Sample Matrix:	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 IV. When appropriate to the method, method blank results have been reported with each analytical test.

Sample Receipt

Seven samples were received for analysis at ALS Environmental in Houston on 05/24/24.

The samples were received in good condition and are 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:

EQ2400278: Laboratory Control Spike/Duplicate Laboratory Control Spike (LCS/DLCS) samples were analyzed and reported in addition to a 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.

EQ2400278-04 (MS) and EQ2400278-05 (DMS) out of control data due to matrix interference.

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:**E2400588

Project: HS24051490

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
E2400588-001	50WW09_052224	5/22/2024	0715
E2400588-002	50WW08_052224	5/22/2024	0755
E2400588-003	50WW23_052224	5/22/2024	0840
E2400588-004	50WW12_052224	5/22/2024	0925
E2400588-005	50WW12_052224_a	5/22/2024	0925
E2400588-006	50WW06_052224	5/22/2024	1020
E2400588-007	50WW06_052224_a	5/22/2024	1020

Service Request Summary

01334624

9 120 mL-Plastic Bottle Natural WM Unpreserved

Location: EHRMS-WIC 6A

Pressure Gas:

Folder #: **E2400588**
Client Name: ALS Environmental - US
Project Name: HS24051490
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: Hussam Kelany
Originating Lab: HOUSTON
Logged By: JCORONADO2
Date Received: 05/24/24
Internal Due Date: 6/5/2024
QAP: LAB QAP
Qualifier Set: Lab Standard
Formset: Lab Standard
Merged?: Y
Report to MDL?: Y
P.O. Number:
EDD: EQUIS EFWEDD ERM Global High-res

Lab Samp No.	Client Samp No	Matrix	Collected	HOUSTON ClO4 DOD/6850
E2400588-001	50WW09_052224	Water	05/22/24 0715	**IV**
E2400588-002	50WW08_052224	Water	05/22/24 0755	**IV**
E2400588-003	50WW23_052224	Water	05/22/24 0840	**IV**
E2400588-004	50WW12_052224	Water	05/22/24 0925	**IV**
E2400588-005	50WW12_052224_a	Water	05/22/24 0925	**IV**
E2400588-006	50WW06_052224	Water	05/22/24 1020	**IV**
E2400588-007	50WW06_052224_a	Water	05/22/24 1020	**IV**

Service Request Summary

Folder #:	**E2400588**
Client Name:	ALS Environmental - US
Project Name:	HS24051490
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:	Hussam Kelany
Originating Lab:	HOUSTON
Logged By:	JCORONADO2
Date Received:	05/24/24
Internal Due Date:	6/5/2024
QAP:	LAB QAP
Qualifier Set:	Lab Standard
Formset:	Lab Standard
Merged?:	Y
Report to MDL?:	Y
P.O. Number:	
EDD:	EQUIS EFWEDD ERM Global High-res

01334625

9 120 mL-Plastic Bottle Natural WM Unpreserved

Location: EHRMS-WIC 6A

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

ALS Environmental

State Certifications, Accreditations, and Licenses

Agency	Number	Expire Date
Arkansas Department of Environmental Quality	88-00356	3/28/2025
California State Environmental Laboratory Accreditation Program	2919-2024	4/30/2025
Department of Defense	L24-240	4/30/2026
Florida Department of Health	E87611-38	6/30/2024
Hawaii Department of Health	2024	4/30/2025
Illinois Environmental Protection Agency	2000322023-11	6/30/2024
Kansas Department of Health and Environment	E-10352 2023-2024	7/31/2024
Louisiana Department of Environmental Quality	03087-2023	6/30/2024
Louisiana Department of Health and Hospitals	LA028-2024	12/31/2024
Maryland Department of the Environment	343-2023	6/30/2024
Minnesota Department of Health	2645386	12/31/2024
Nevada Division of Environmental Protection	TX026932024-1	7/31/2024
New Hampshire Environmental Laboratory Accreditation Program	209424-A	4/24/2025
New Jersey Department of Environmental Protection	TX008-2024	6/30/2024
Oklahoma Department of Environmental Quality	2023-140	8/31/2024
Oregon Environmental Laboratory Accreditation Program	TX200002-2024	5/15/2025
Pennsylvania Department of Environmental Protection	68-03441-017	6/30/2024
Tennessee Department of Environment and Conservation	04016-2024	4/30/2025
Texas Commision on Environmental Quality	TX-C24-00130	4/30/2025
Utah Department of Health Environmental Laboratory Certification	TX026932023-14	7/31/2024
Washington Department of Ecology	C819-23	11/14/2024

Chain of Custody

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E2400588 5

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HS24051490

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Subcontract Chain of Custody

SAMPLING STATE: **Dept of Defense** **COC ID: 25795**

SUBCONTRACT TO:

ALS Environmental
10450 Stancliff RoadSuite 210
Houston, TX 77084

Phone: +1 281 530 5656

CUSTOMER INFORMATION:

Company:	ALS Houston
Contact:	Luis.Aguilar
Address:	10450 Stancliff Rd, Ste 210
Phone:	+1 281 530 5656
Email:	luis.aguilar@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:	HS24051490
TSR:	Ron Martino

	LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	COLLECT DATE
	ANALYSIS REQUESTED			DUE DATE
1.	**HS24051490-01**	**50WW09_052224**	**Water**	**22 May 2024 07:15**
	Perchlorate Level II and Level IV reports on a seperate pdf. Send WOA to Vicki Graves.			10 Jun 2024
2.	**HS24051490-02**	**50WW08_052224**	**Water**	**22 May 2024 07:55**
	Perchlorate Level II and Level IV reports on a seperate pdf. Send WOA to Vicki Graves.			10 Jun 2024
3.	**HS24051490-03**	**50WW23_052224**	**Water**	**22 May 2024 08:40**
	Perchlorate Level II and Level IV reports on a seperate pdf. Send WOA to Vicki Graves.			10 Jun 2024
4.	**HS24051490-04**	**50WW12_052224**	**Water**	**22 May 2024 09:25**
	Perchlorate Level II and Level IV reports on a seperate pdf. Send WOA to Vicki Graves.			10 Jun 2024
5.	**HS24051490-05**	**50WW12_052224_a**	**Water**	**22 May 2024 09:25**
	Perchlorate Level II and Level IV reports on a seperate pdf. Send WOA to Vicki Graves.			10 Jun 2024
6.	**HS24051490-06**	**50WW06_052224**	**Water**	**22 May 2024 10:20**
	Perchlorate Level II and Level IV reports on a seperate pdf. Send WOA to Vicki Graves.			10 Jun 2024
7.	**HS24051490-07**	**50WW06_052224_a**	**Water**	**22 May 2024 10:20**
	Perchlorate Level II and Level IV reports on a seperate pdf. Send WOA to Vicki Graves.			10 Jun 2024

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HS24051490

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Sample Receipt Checklist

Work Order ID: HS24051490 **Date/Time received:** 24 May 2024 09:50

Client name: Aptim Environmental & Infrastucture, Inc. **Received by:** Si Ma

Completed/By: 24 May 2024 13:07 Monica Smith **Reviewed/By:**
Date/Time eSignature Date/Time eSignature

Matrices: water **Carrier name:** FedEx

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 ID(s): 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): 0.9 uc/1.0 c IR31

Cooler Information: 1 Cooler(s), 50048

Date/Time sample(s) sent to storage: 05/24/2024 1309

Water - VOA vials have zero headspace?	☑ Yes	☐ No	☐ No VOA vials submitted
Water - pH acceptable upon receipt?	☐ Yes	☐ No	☑ Not Applicable
pH adjusted?	☐ Yes	☐ No	☑ Not Applicable

pH adjusted by:

Login notes: Nitrates received out of hold, proceeded with running.

Client contacted: **Date contacted:** **Person contacted:**

Contacted by: **Regarding:**

Comments:

Corrective action:

Subcontract Chain of Custody

SAMPLING STATE: **Dept of Defense** **COC ID:** **25795**

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: 5/24/24 0950

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

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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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Preparation Information Benchsheet

01334636

Prep Run#: 439478 **Prep WorkFlow:** GenExt28Day **Status:** Prepped
Team: Semivoa GCMS/CGUERRA **Prep Method:** Method **Prep Date/Time:** 6/4/24 10:16

#	Lab Code	Client ID	B#	Method /Test	pH	Cl	Matrix	Amt. Ext.	Sample Description
1	E2400588-001	50WW09_052224	.01	6850/ClO4 DOD			Water	10mL	
2	E2400588-002	50WW08_052224	.01	6850/ClO4 DOD			Water	10mL	
3	E2400588-003	50WW23_052224	.01	6850/ClO4 DOD			Water	10mL	
4	E2400588-004	50WW12_052224	.01	6850/ClO4 DOD			Water	10mL	
5	E2400588-005	50WW12_052224_a	.01	6850/ClO4 DOD			Water	10mL	
6	E2400588-006	50WW06_052224	.01	6850/ClO4 DOD			Water	10mL	
7	E2400588-007	50WW06_052224_a	.01	6850/ClO4 DOD			Water	10mL	
8	E2400610-001	2405581-01 (W-29)	.01	6850/ClO4 DOD			Water	10mL	
9	E2400610-002	2405581-02 (W-8)	.01	6850/ClO4 DOD			Water	10mL	
10	E2400610-003	2405581-03 (W-3)	.01	6850/ClO4 DOD			Water	10mL	
11	E2400610-004	2405581-04 (W-4)	.01	6850/ClO4 DOD			Water	10mL	
12	E2400610-005	2405581-05 (W-15)	.01	6850/ClO4 DOD			Water	10mL	
13	E2400610-006	2405581-06 (W-16)	.01	6850/ClO4 DOD			Water	10mL	
14	E2400610-007	2405581-07 (W-11)	.01	6850/ClO4 DOD			Water	10mL	
15	E2400610-008	2405581-08 (W-1)	.01	6850/ClO4 DOD			Water	10mL	
16	E2400610-009	2405581-09 (W-12)	.01	6850/ClO4 DOD			Water	10mL	
17	E2400617-001	2405240908X WB-1-255	.01	6850/ClO4 DOD			Water	10mL	
18	EQ2400278-01	MB		6850/ClO4 DOD			Liquid	10mL	
19	EQ2400278-02	LCS		6850/ClO4 DOD			Liquid	10mL	
20	EQ2400278-03	ICS		6850/ClO4 DOD			Liquid	10mL	
21	EQ2400278-04	50WW23_052224 MS	.02	6850/ClO4 DOD			Liquid	10mL	
22	EQ2400278-05	50WW23_052224 DMS	.02	6850/ClO4 DOD			Liquid	10mL	

Spiking Solutions

Name: Perchlorate Anion Spiking Soln. 25,000 ppm Inventory ID 233595 Logbook Ref: Expires On: 08/04/2024

EQ2400278-03 20.00µL

Name: Perchlorate Intermediate Stock 3 Inventory ID 234838 Logbook Ref: Perchlorate Inter. Stock 3 NMV Expires On: 10/25/2024

EQ2400278-02 100.00µL EQ2400278-03 100.00µL EQ2400278-04 100.00µL EQ2400278-05 100.00µL

Name: Perchlorate Internal Standard 1ug/mL Inventory ID 235428 Logbook Ref: Perchlorate IS cg5/24/24 Expires On: 11/24/2024

E2400588-001 100.00µL E2400588-002 100.00µL E2400588-003 100.00µL E2400588-004 100.00µL E2400588-005 100.00µL E2400588-006 100.00µL
E2400588-007 100.00µL E2400610-001 100.00µL E2400610-002 100.00µL E2400610-003 100.00µL E2400610-004 100.00µL E2400610-005 100.00µL

Preparation Information Benchsheet

01334637

Prep Run#: 439478 **Prep WorkFlow:** GenExt28Day **Status:** Prepped

Team: Semivoa GCMS/CGUERRA **Prep Method:** Method **Prep Date/Time:** 6/4/24 10:16

E2400610-006	100.00µL	E2400610-007	100.00µL	E2400610-008	100.00µL	E2400610-009	100.00µL	E2400617-001	100.00µL	EQ2400278-01	100.00µL
EQ2400278-02	100.00µL	EQ2400278-03	100.00µL	EQ2400278-04	100.00µL	EQ2400278-05	100.00µL				

Preparation Materials

Water HPLC Grade	HPLC WATER 04/15/24 (233144)	6850 0.45um syringe filters	6850 0.45 SYRING FILTER (229979)	6850 Luer-Lok Syringes	Luer Lok Syringes (235268)

Preparation Steps

Step: Preparation
Started: 6/4/24 10:16
Finished: 6/4/24 14:00
By: CGUERRA
Comments

Comments: _____

Reviewed By: _____ Date: _____

Chain of Custody

Relinquished By: _____ Date: _____ Extracts Examined

Received By: _____ Date: _____ Yes No

Analytical Results

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Client:	ALS Environmental - US	**Service Request:**	E2400588
Project:	HS24051490	**Date Collected:**	5/22/24 0715
Sample Matrix:	Water	**Date Received:**	5/24/24
Sample Name:	50WW09_052224	**Units:**	µg/L
Lab Code:	E2400588-001	**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	**0.450**		0.100	0.0500	0.0250	1	6/ 4/24	6/7/24 14:05	439478	843419	

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400588
Project:	HS24051490	**Date Collected:**	5/22/24 0755
Sample Matrix:	Water	**Date Received:**	5/24/24
Sample Name:	50WW08_052224	**Units:**	µg/L
Lab Code:	E2400588-002	**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	**210**		1.00	0.500	0.250	10	6/ 4/24	6/7/24 16:31	439478	843419	

Client:	ALS Environmental - US	**Service Request:**	E2400588
Project:	HS24051490	**Date Collected:**	5/22/24 0840
Sample Matrix:	Water	**Date Received:**	5/24/24
Sample Name:	50WW23_052224	**Units:**	µg/L
Lab Code:	E2400588-003	**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	ND	U	1.00	0.500	0.250	10	6/ 4/24	6/7/24 16:36	439478	843419	

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400588
Project:	HS24051490	**Date Collected:**	5/22/24 0925
Sample Matrix:	Water	**Date Received:**	5/24/24
Sample Name:	50WW12_052224	**Units:**	µg/L
Lab Code:	E2400588-004	**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	**443000**		1000	500	250	10000	6/ 4/24	6/7/24 16:47	439478	843419	

Client:	ALS Environmental - US	**Service Request:**	E2400588
Project:	HS24051490	**Date Collected:**	5/22/24 0925
Sample Matrix:	Water	**Date Received:**	5/24/24
Sample Name:	50WW12_052224_a	**Units:**	µg/L
Lab Code:	E2400588-005	**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	**139000**		1000	500	250	10000	6/ 4/24	6/7/24 16:47	439478	843419	

Client:	ALS Environmental - US	**Service Request:**	E2400588
Project:	HS24051490	**Date Collected:**	5/22/24 1020
Sample Matrix:	Water	**Date Received:**	5/24/24
Sample Name:	50WW06_052224	**Units:**	µg/L
Lab Code:	E2400588-006	**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	**0.537**		0.100	0.0500	0.0250	1	6/ 4/24	6/7/24 15:02	439478	843419	

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400588
Project:	HS24051490	**Date Collected:**	5/22/24 1020
Sample Matrix:	Water	**Date Received:**	5/24/24
Sample Name:	50WW06_052224_a	**Units:**	µg/L
Lab Code:	E2400588-007	**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	**1.28**		0.100	0.0500	0.0250	1	6/ 4/24	6/7/24 15:08	439478	843419	

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400588
Project:	HS24051490	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	µg/L
Lab Code:	EQ2400278-01	**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	6/ 4/24	6/7/24 13:37	439478	843419	

Accuracy & Precision

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QA/QC Report

Client:	ALS Environmental - US	**Service Request:**	E2400588
Project:	HS24051490	**Date Analyzed:**	06/07/24
Sample Matrix:	Water	**Date Extracted:**	06/04/24

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

Analysis Method:	6850	**Units:**	ug/L
Prep Method:	Method	**Basis:**	NA
		Analysis Lot:	843419

Lab Control Sample
EQ2400278-02

Analyte Name	Result	Spike Amount	% Rec	% Rec Limits
Perchlorate	0.104	0.100	104	84-119

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400588
Project:	HS24051490	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Lab Control Sample	**Units:**	µg/L
Lab Code:	EQ2400278-02	**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	**0.104**		0.100	0.0500	0.0250	1	6/ 4/24	6/7/24 13:43	439478	843419	

QA/QC Report

Client:	ALS Environmental - US	**Service Request:**	E2400588
Project:	HS24051490	**Date Collected:**	05/22/24
Sample Matrix:	Water	**Date Received:**	05/24/24
		Date Analyzed:	06/10/24
		Date Extracted:	06/4/24

Duplicate Matrix Spike Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Sample Name:	50WW23_052224	**Units:**	ug/L
Lab Code:	E2400588-003	**Basis:**	NA
Analysis Method:	6850		
Prep Method:	Method		

		Matrix Spike			Duplicate Matrix Spike					
		EQ2400278-04			EQ2400278-05					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Perchlorate	ND U	ND U	0.100	0 *	ND U	0.100	0 *	84-119	NC	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.

Matrix Spike and Matrix Spike Duplicate Data is presented for information purposes only. The matrix may or may not be relevant to samples reported in this report. The laboratory evaluates system performance based on the LCS and LCSD control limits.

Client:	ALS Environmental - US	**Service Request:**	E2400588
Project:	HS24051490	**Date Collected:**	5/22/24 0840
Sample Matrix:	Water	**Date Received:**	5/24/24
Sample Name:	50WW23_052224	**Units:**	µg/L
Lab Code:	EQ2400278-04	**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	ND	U	1.00	0.500	0.250	10	6/ 4/24	6/10/24 12:28	439478	843543	

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400588
Project:	HS24051490	**Date Collected:**	5/22/24 0840
Sample Matrix:	Water	**Date Received:**	5/24/24
Sample Name:	50WW23_052224	**Units:**	µg/L
Lab Code:	EQ2400278-05	**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	ND	U	1.00	0.500	0.250	10	6/ 4/24	6/10/24 12:34	439478	843543	

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

841830

Injection Log

LCMS01 -Shimadzu 8050

1st Review: CG
2nd Review:

ICAL Date: 5/23/2024
Cal. Std. xp: 8/13/2024
ICAL ID: EC2400006

Mobile Phases : A:20mM ammonium acetate in water **3211810-9 B:**Acetonitrile 3211810-8
LODV: 233573 **CCV:233565**

	File Name	Sample Name	Acquisition Method	Dilution	Comments	Date/Time
1	20240523-001	IB	Perchlorate6850c.lcm	1x		5/23/2024 14:17
2	20240523-002	Perchlorate ICAL 1	Perchlorate6850c.lcm	1x		5/23/2024 14:23
3	20240523-003	Perchlorate ICAL 2	Perchlorate6850c.lcm	1x		5/23/2024 14:28
4	20240523-004	Perchlorate ICAL 3	Perchlorate6850c.lcm	1x		5/23/2024 14:34
5	20240523-005	Perchlorate ICAL 4	Perchlorate6850c.lcm	1x		5/23/2024 14:39
6	20240523-006	Perchlorate ICAL 5	Perchlorate6850c.lcm	1x		5/23/2024 14:45
7	20240523-007	Perchlorate ICAL 6	Perchlorate6850c.lcm	1x		5/23/2024 14:50
8	20240523-008	Perchlorate ICAL 7	Perchlorate6850c.lcm	1x		5/23/2024 14:56
9	20240523-009	Perchlorate ICAL 8	Perchlorate6850c.lcm	1x		5/23/2024 15:01
10	20240523-010	Perchlorate ICAL 9	Perchlorate6850c.lcm	1x		5/23/2024 15:07
11	20240523-011	Perchlorate ICAL 10	Perchlorate6850c.lcm	1x		5/23/2024 15:12
12	20240523-012	PerchlorateICV	Perchlorate6850c.lcm	1x		5/23/2024 15:18
13	20240523-013	IB	Perchlorate6850c.lcm	1x		5/23/2024 15:23
14	20240523-014	LODV	Perchlorate6850c.lcm	1x		5/23/2024 15:29
15	20240523-015	ICS	Perchlorate6850c.lcm	1x		5/23/2024 15:35
16	20240523-016	CCV	Perchlorate6850c.lcm	1x		5/23/2024 15:40
17	20240523-017	IB	Perchlorate6850c.lcm	1x		5/23/2024 15:46
18	20240523-018	EQ2400248-01 MB	Perchlorate6850c.lcm	1x		5/23/2024 15:51
19	20240523-019	EQ2400248-02 LCS	Perchlorate6850c.lcm	1x		5/23/2024 15:57
20	20240523-020	EQ2400248-03 DLCS	Perchlorate6850c.lcm	1x		5/23/2024 16:02
21	20240523-021	EQ2400248-04 ICS	Perchlorate6850c.lcm	1x		5/23/2024 16:08
22	20240523-022	E2400538-01	Perchlorate6850c.lcm	1x	Iss failure DL needed	5/23/2024 16:13
23	20240523-023	E2400498-01	Perchlorate6850c.lcm	1x	Iss failure DL needed	5/23/2024 16:19
24	20240523-024	E2400498-02	Perchlorate6850c.lcm	1x	Iss failure DL needed	5/23/2024 16:25
25	20240523-025	E2400483-01	Perchlorate6850c.lcm	1x	Iss : low IS	5/23/2024 16:30
26	20240523-026	E2400538-01	Perchlorate6850c.lcm	1x	RI low IS confirm	5/23/2024 16:36
27	20240523-027	E2400483-02	Perchlorate6850c.lcm	1x	Iss : low IS	5/23/2024 16:41
28	20240523-028	CCV	Perchlorate6850c.lcm	1x		5/23/2024 16:47
29	20240523-029	IB	Perchlorate6850c.lcm	1x		5/23/2024 16:52
30	20240523-030	E2400492-01	Perchlorate6850c.lcm	1x	RI low IS confirm	5/23/2024 16:58
31	20240523-031	E2400538-01 10x	Perchlorate6850c.lcm	1x	10x DL wrong	5/23/2024 17:03
32	20240523-032	E2400492-02	Perchlorate6850c.lcm	1x	RI low IS confirm	5/23/2024 17:09
33	20240523-033	E2400492-03	Perchlorate6850c.lcm	1x	RI low IS confirm	5/23/2024 17:15
34	20240523-034	E2400492-04	Perchlorate6850c.lcm	1x		5/23/2024 17:20
35	20240523-035	E2400493-01	Perchlorate6850c.lcm	1x	RI low IS confirm	5/23/2024 17:26
36	20240523-036	CCV	Perchlorate6850c.lcm	1x		5/23/2024 17:31
37	20240523-037	IB	Perchlorate6850c.lcm	1x		5/23/2024 17:37

841830

Injection Log

LCMS01 -Shimadzu 8050

1st Review: CG
2nd Review:

ICAL Date: 5/23/2024
Cal. Std. xp: 8/13/2024
ICAL ID: EC2400006

Mobile Phases : A:20mM ammonium acetate in water **3211810-9 B:**Acetonitrile 3211810-8
LODV: 233573 **CCV:233565**

	File Name	Sample Name	Acquisition Method	Dilution	Comments	Date/Time

Initial Calibration - Detailed Report

Calibration ID: EC2400008 **Instrument ID:** E-LCMS-01
Column Name: 1

#	Lab Code	Sample Name	File Location	Aquisition Date
01	EC2400008-01	Perchlorate ICAL 1	20240523-002	05/23/2024 14:23
02	EC2400008-02	Perchlorate ICAL 2	20240523-003	05/23/2024 14:28
03	EC2400008-03	Perchlorate ICAL 3	20240523-004	05/23/2024 14:34
04	EC2400008-04	Perchlorate ICAL 4	20240523-005	05/23/2024 14:39
05	EC2400008-05	Perchlorate ICAL 5	20240523-006	05/23/2024 14:45
06	EC2400008-06	Perchlorate ICAL 6	20240523-007	05/23/2024 14:50
07	EC2400008-07	Perchlorate ICAL 7	20240523-008	05/23/2024 14:56
08	EC2400008-08	Perchlorate ICAL 8	20240523-009	05/23/2024 15:01
09	EC2400008-09	Perchlorate ICAL 9	20240523-010	05/23/2024 15:07
10	EC2400008-10	Perchlorate ICAL 10	20240523-011	05/23/2024 15:12

Analyte **Curve Fit** **Weighting**

Perchlorate **Average RF** **RSD = 6.262** **Average RF = 0.1325**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.1000	0.1273	02	0.5000	0.1171	03	0.7000	0.1228	04	1.0000	0.1277
05	2.0000	0.1345	06	5.0000	0.1354	07	10.0000	0.1401	08	20.0000	0.1398
09	30.0000	0.1399	10	50.0000	0.1401						

Analyte

Perchlorate RSE = 6.26

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.1000	0.0961	-3.9	02	0.5000	0.442	-11.6	03	0.7000	0.649	-7.3
04	1.0000	0.964	-3.6	05	2.0000	2.03	1.5	06	5.0000	5.11	2.2
07	10.0000	10.6	5.7	08	20.0000	21.1	5.5	09	30.0000	31.7	5.6
10	50.0000	52.9	5.8								

Initial Calibration Verification Summary Report

Calibration ID:	EC2400008	**Instrument ID:**	E-LCMS-01
Datafile ID:	20240523-012	**Column Name:**	1

Analyte	Lab Code	Type	Curve Fit	True Value	Calc Conc	Units	Result	Criteria
Perchlorate	EC2400008-11	T	Average RF	10	10.506	ng/mL	5.1	<= 15

Insight Report

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Project File: I:\LCMS01\DATA\20240523ICAL\20240523.damIp

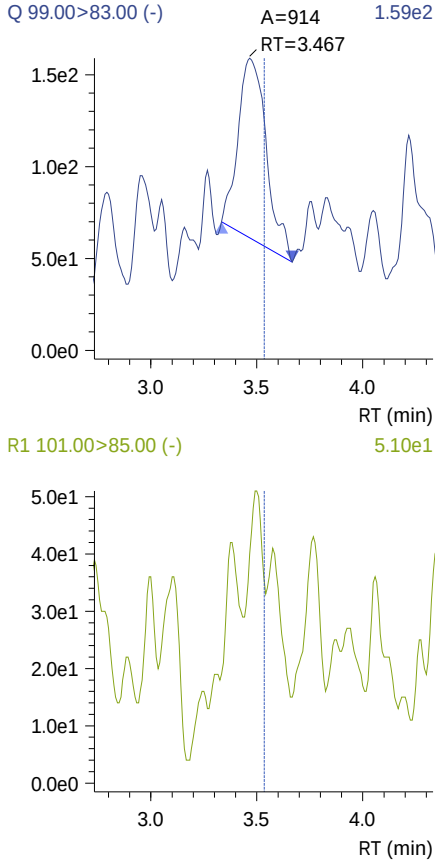
IB

Sample ID: IB
Date Acquired: 5/23/2024 2:17:35 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240523ICAL\20240523-001.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	NI	----	----	424709	----	ng/mL	101.00 >85.00	0.00	24.14 -44.84
Sodium Perchlorate -18O4_IS	Auto	3.478	424709	424709	1.0000	ng/mL	----	----	

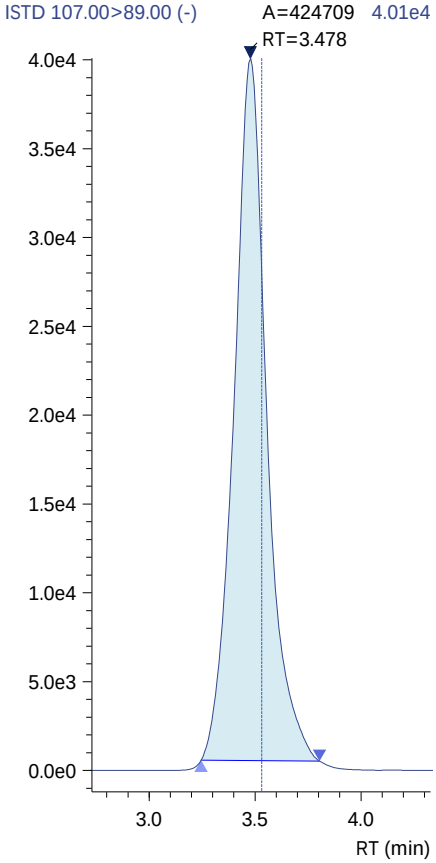
Perchlorate

Conc ----
R#1 0.00 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/4/2024 12:58:42 PM

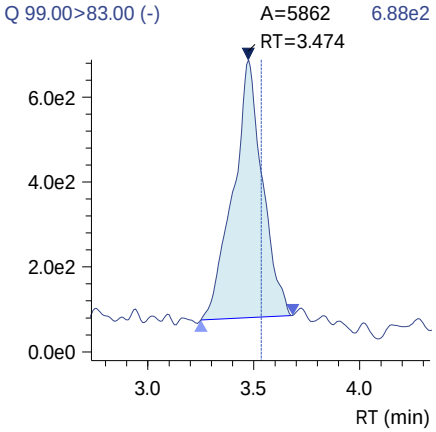
Perchlorate ICAL 1

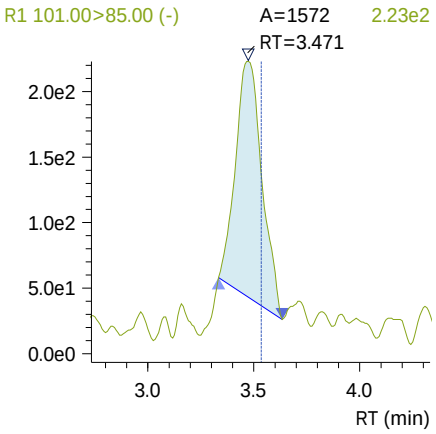
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Date Acquired: 5/23/2024 2:23:05 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240523ICAL\20240523-002.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.474	5862	460498	0.0961	ng/mL	101.00 >85.00	26.81	24.14 -44.84
Sodium Perchlorate -18O4_IS	Auto	3.476	460498	460498	1.0000	ng/mL	----	----	

Perchlorate

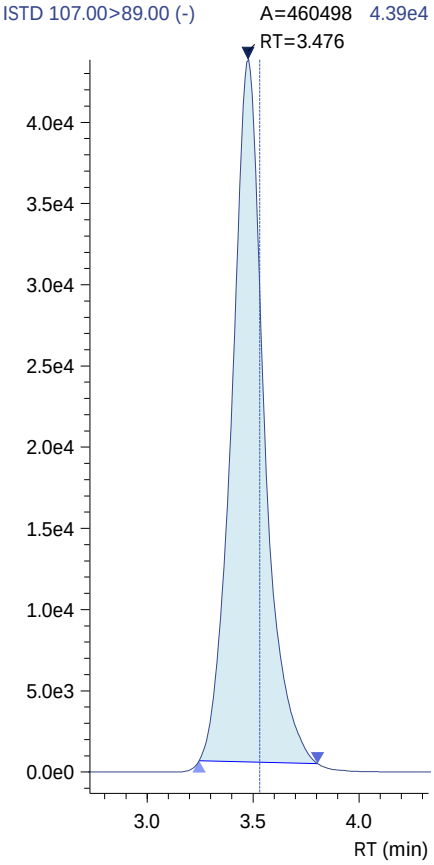
Conc 0.0961
R#1 26.81 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

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Perchlorate ICAL 2

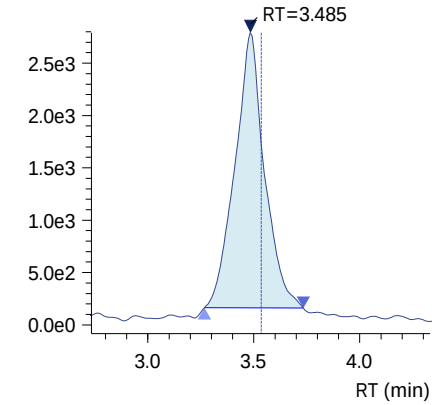
Sample ID: Perchlorate ICAL 2
Date Acquired: 5/23/2024 2:28:37 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240523ICAL\20240523-003.lcd
Vial: 2 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.485	25535	436264	0.4419	ng/mL	101.00 >85.00	27.91	24.14 -44.84
Sodium Perchlorate -18O4_IS	Auto	3.477	436264	436264	1.0000	ng/mL	----	----	

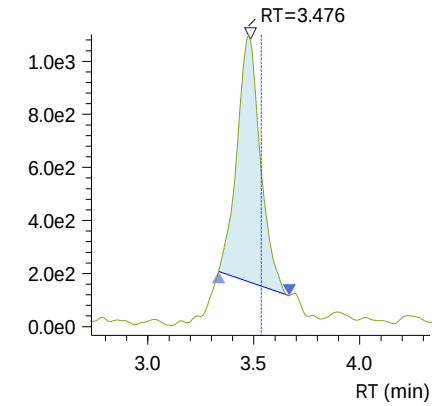
Perchlorate

Conc 0.4419
R#1 27.91 (34.10)

Q 99.00>83.00 (-) A=25535 2.79e3



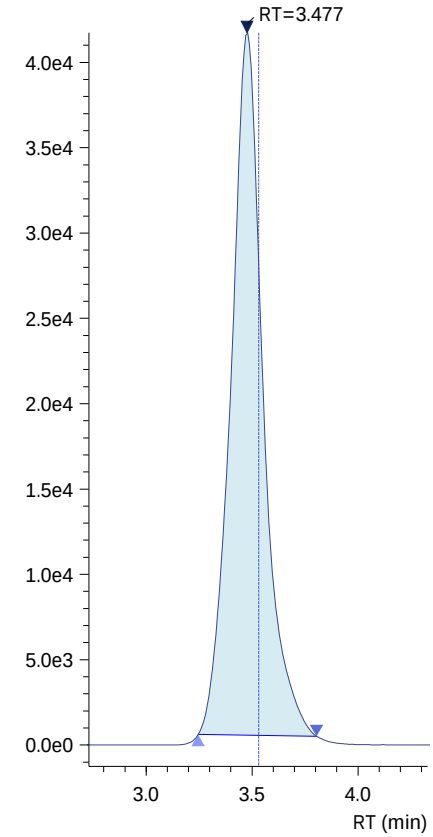
R1 101.00>85.00 (-) A=7127 1.10e3



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=436264 4.17e4



Insight Report

Printed at 6/4/2024 12:58:42 PM

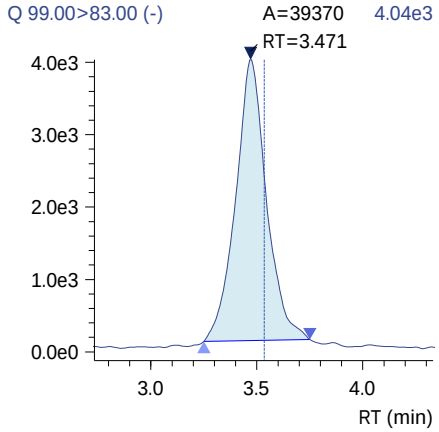
Perchlorate ICAL 3

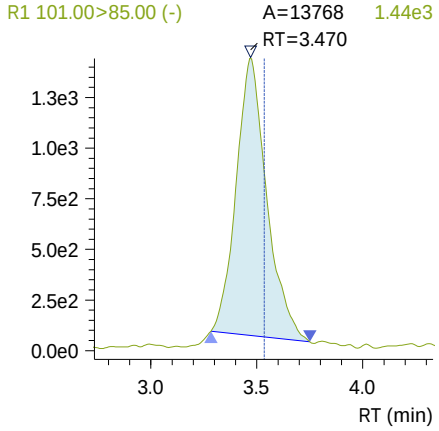
Sample ID: Perchlorate ICAL 3
Date Acquired: 5/23/2024 2:34:11 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240523ICAL\20240523-004.lcd
Vial: 3 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.471	39370	458077	0.6488	ng/mL	101.00 >85.00	34.97	24.14 -44.84
Sodium Perchlorate -18O4_IS	Auto	3.473	458077	458077	1.0000	ng/mL	----	----	

Perchlorate

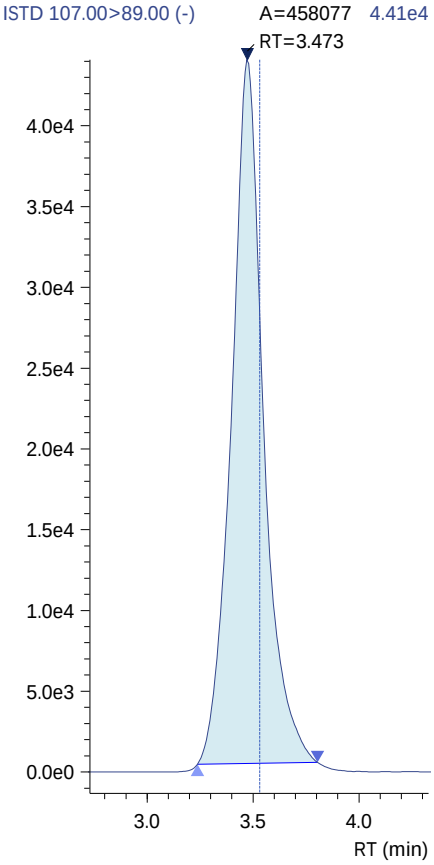
Conc 0.6488
R#1 34.97 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

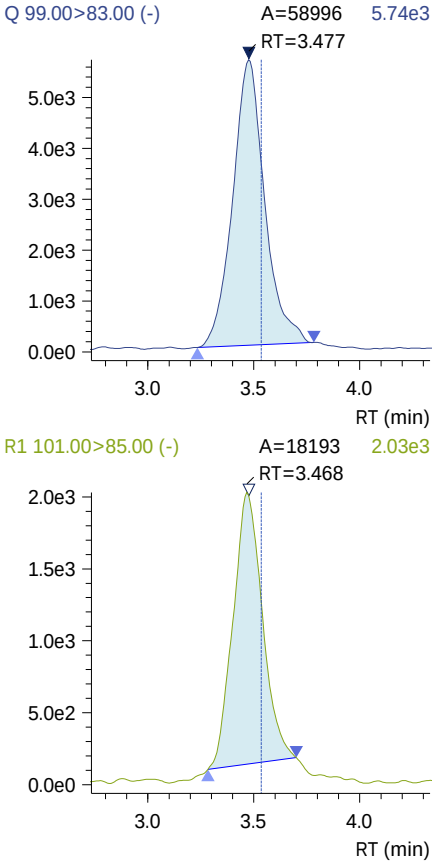
Perchlorate ICAL 4

Sample ID: Perchlorate ICAL 4
Date Acquired: 5/23/2024 2:39:45 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240523ICAL\20240523-005.lcd
Vial: 4 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.477	58996	462144	0.9637	ng/mL	101.00 >85.00	30.84	24.14 -44.84
Sodium Perchlorate -18O4_IS	Auto	3.474	462144	462144	1.0000	ng/mL	----	----	

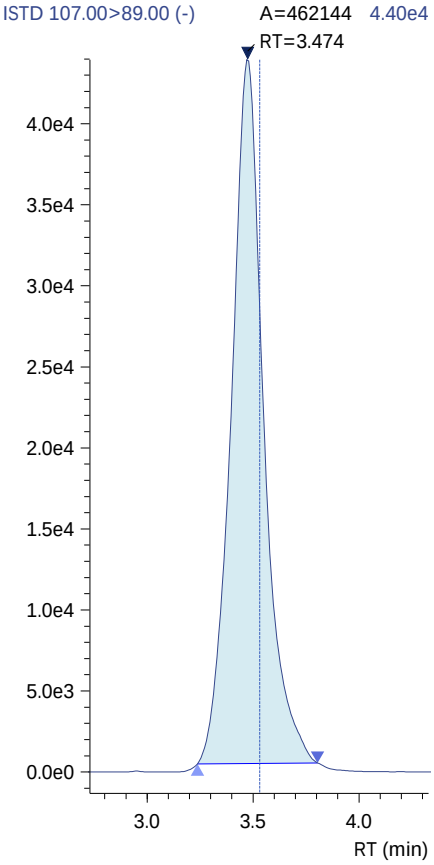
Perchlorate

Conc 0.9637
R#1 30.84 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/4/2024 12:58:42 PM

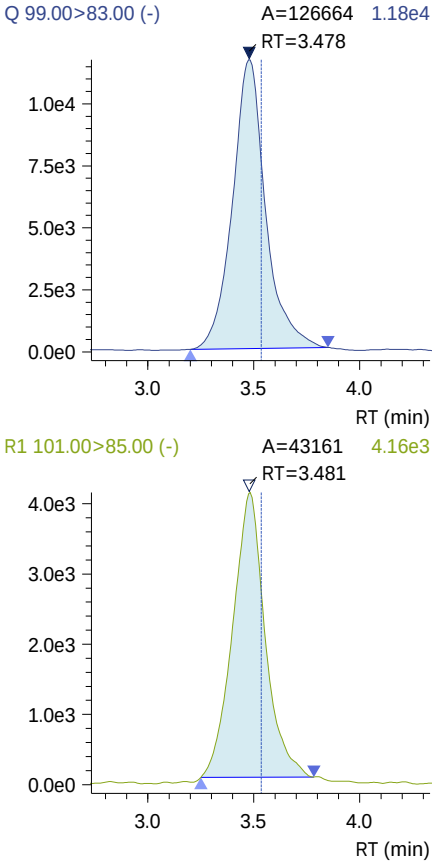
Perchlorate ICAL 5

Sample ID: Perchlorate ICAL 5
Date Acquired: 5/23/2024 2:45:16 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240523ICAL\20240523-006.lcd
Vial: 5 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.478	126664	470896	2.0307	ng/mL	101.00 >85.00	34.08	24.14 -44.84
Sodium Perchlorate -18O4_IS	Auto	3.475	470896	470896	1.0000	ng/mL	----	----	

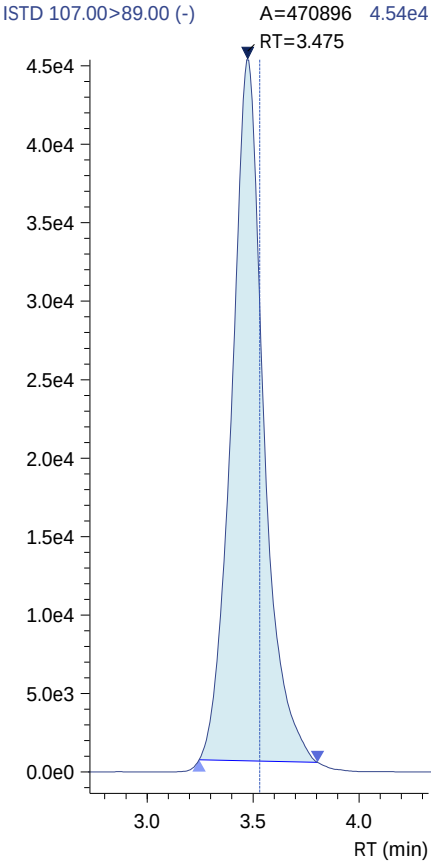
Perchlorate

Conc 2.0307
R#1 34.08 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/4/2024 12:58:42 PM

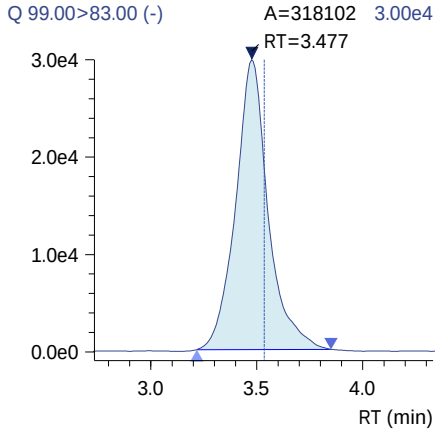
Perchlorate ICAL 6

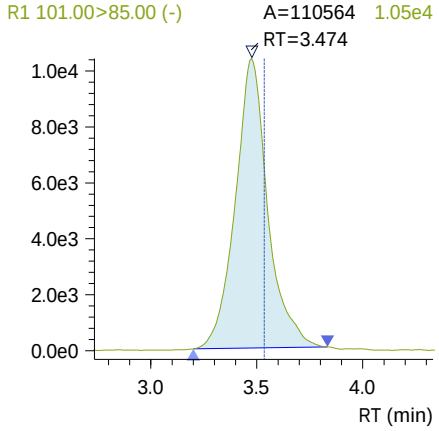
Sample ID: Perchlorate ICAL 6
Date Acquired: 5/23/2024 2:50:50 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240523ICAL\20240523-007.lcd
Vial: 6 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.477	318102	469845	5.1113	ng/mL	101.00 >85.00	34.76	24.14 -44.84
Sodium Perchlorate -18O4_IS	Auto	3.473	469845	469845	1.0000	ng/mL	----	----	

Perchlorate

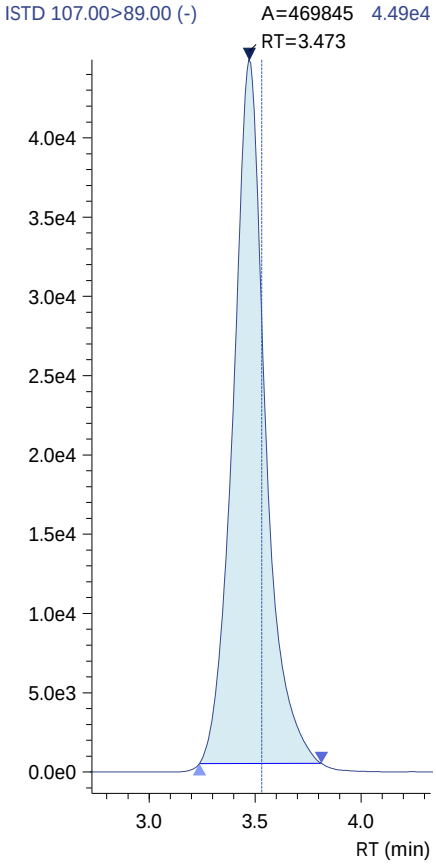
Conc 5.1113
R#1 34.76 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/4/2024 12:58:42 PM

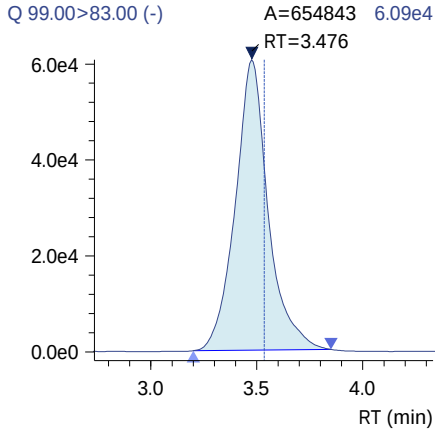
Perchlorate ICAL 7

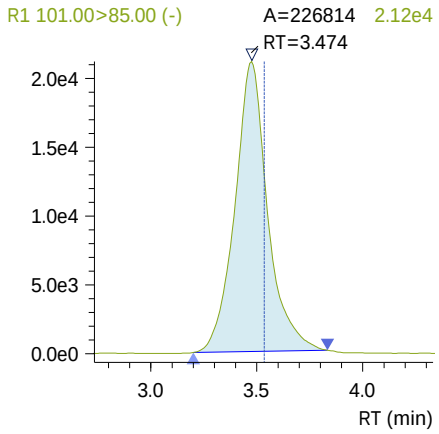
Sample ID: Perchlorate ICAL 7
Date Acquired: 5/23/2024 2:56:21 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240523ICAL\20240523-008.lcd
Vial: 7 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.476	654843	467526	10.5 742	ng/mL	101.00 >85.00	34.64	24.14 -44.84
Sodium Perchlorate -18O4_IS	Auto	3.474	467526	467526	1.0000	ng/mL	----	----	

Perchlorate

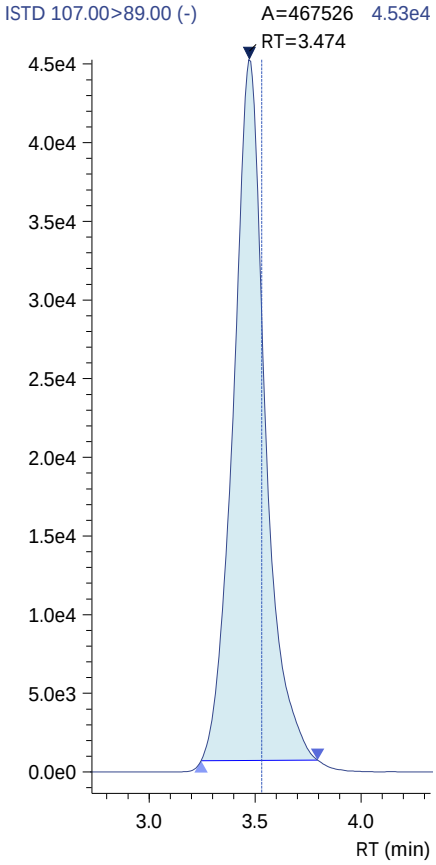
Conc 10.5742
R#1 34.64 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

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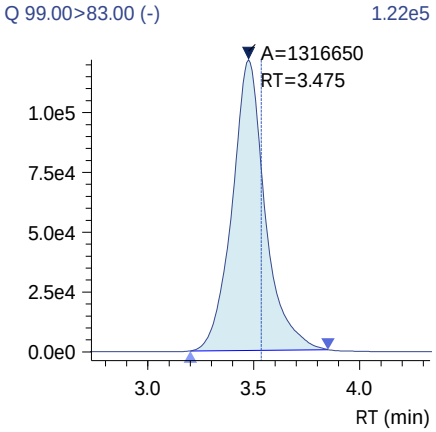
Perchlorate ICAL 8

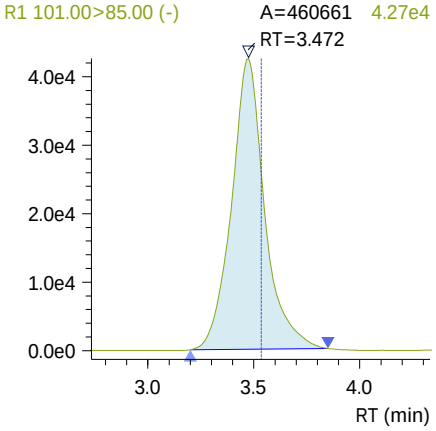
Sample ID: Perchlorate ICAL 8
Date Acquired: 5/23/2024 3:01:52 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240523ICAL\20240523-009.lcd
Vial: 8 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.475	13166 50	470903	21.1 084	ng/mL	101.00 >85.00	34.99	24.14 -44.84
Sodium Perchlorate -18O4_IS	Auto	3.472	470903	470903	1.0000	ng/mL	----	----	

Perchlorate

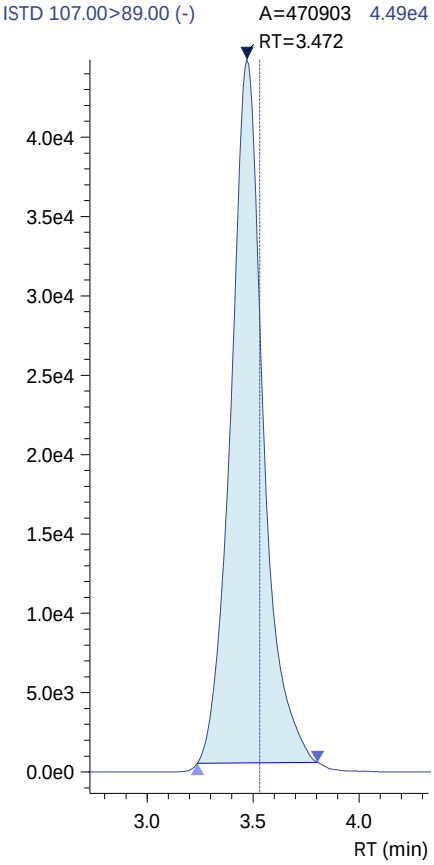
Conc 21.1084
R#1 34.99 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/4/2024 12:58:42 PM

Perchlorate ICAL 9

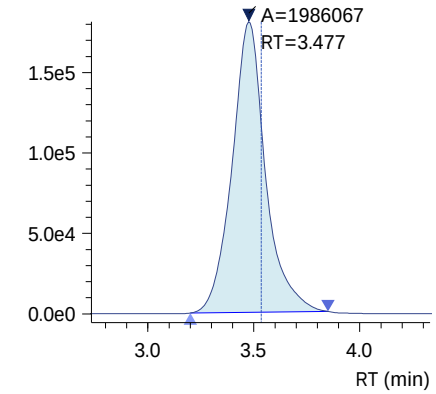
Sample ID: Perchlorate ICAL 9
Date Acquired: 5/23/2024 3:07:25 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240523ICAL\20240523-010.lcd
Vial: 9 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.477	19860 67	473268	31.6 813	ng/mL	101.00 >85.00	34.46	24.14 -44.84
Sodium Perchlorate -18O4_IS	Auto	3.472	473268	473268	1.0000	ng/mL	----	----	

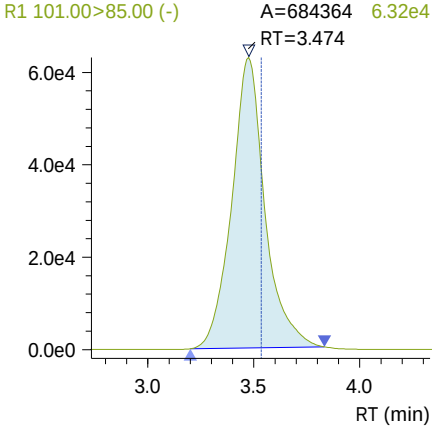
Perchlorate

Conc 31.6813
R#1 34.46 (34.10)

Q 99.00>83.00 (-) 1.82e5



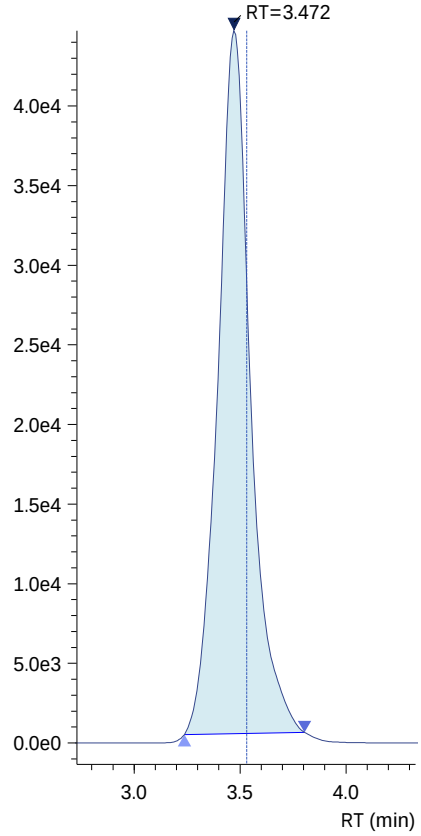
R1 101.00>85.00 (-) A=684364 6.32e4



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=473268 4.47e4



Insight Report

Printed at 6/4/2024 12:58:42 PM

Perchlorate ICAL 10

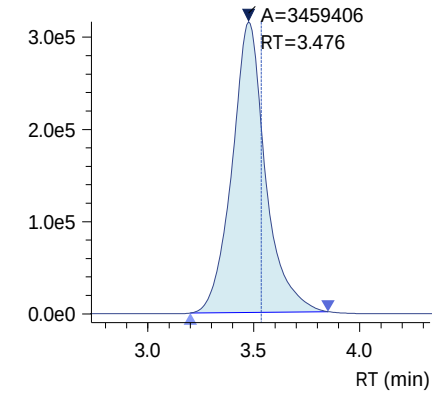
Sample ID: Perchlorate ICAL 10
Date Acquired: 5/23/2024 3:12:56 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240523ICAL\20240523-011.lcd
Vial: 10 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.476	3459406	493682	52.9018	ng/mL	101.00 >85.00	34.61	24.14 -44.84
Sodium Perchlorate-18O4_IS	Auto	3.472	493682	493682	1.0000	ng/mL	----	----	

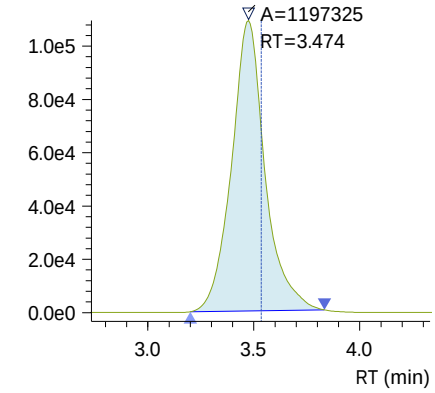
Perchlorate

Conc 52.9018
R#1 34.61 (34.10)

Q 99.00>83.00 (-) 3.17e5



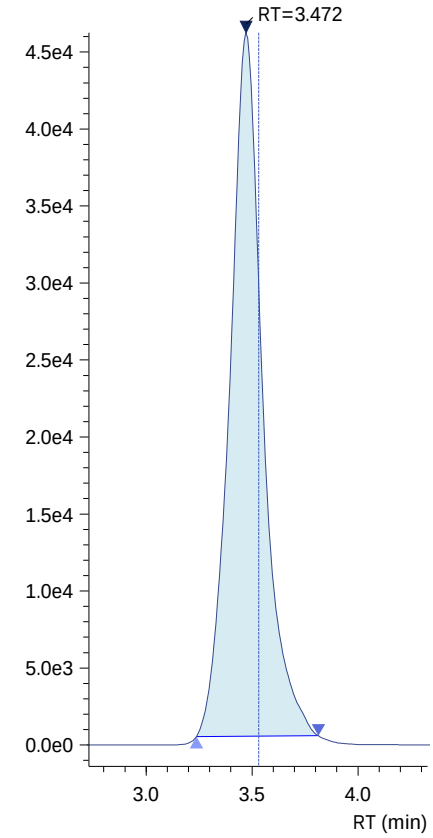
R1 101.00>85.00 (-) 1.10e5



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=493682 4.63e4



Insight Report

Printed at 6/4/2024 12:58:42 PM

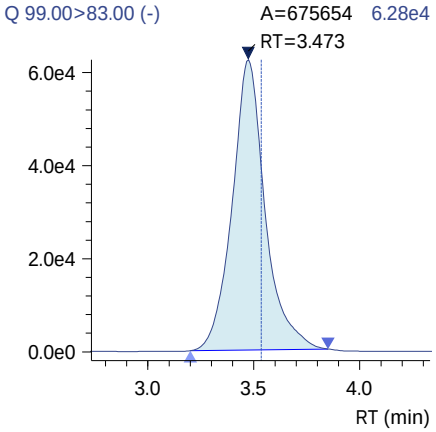
PerchlorateICV

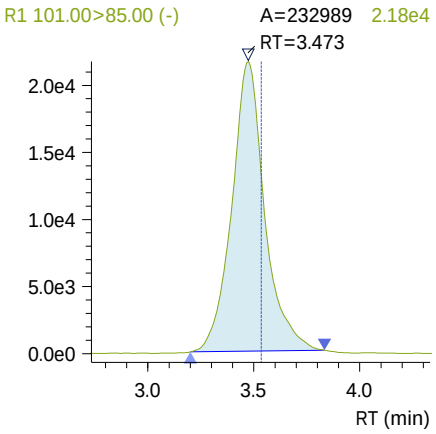
Sample ID: PerchlorateICV
Date Acquired: 5/23/2024 3:18:29 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240523ICAL\20240523-012.lcd
Vial: 11 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.473	675654	485527	10.5058	ng/mL	101.00 >85.00	34.48	24.14 -44.84
Sodium Perchlorate-18O4_IS	Auto	3.473	485527	485527	1.0000	ng/mL	----	----	

Perchlorate

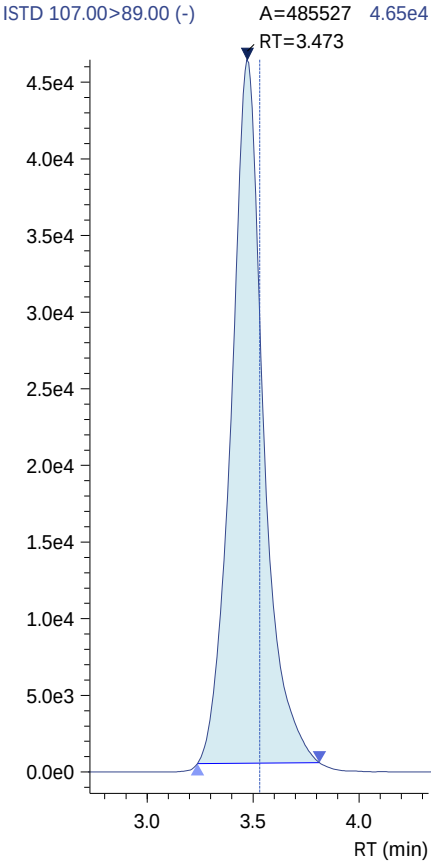
Conc 10.5058
R#1 34.48 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/4/2024 12:58:42 PM

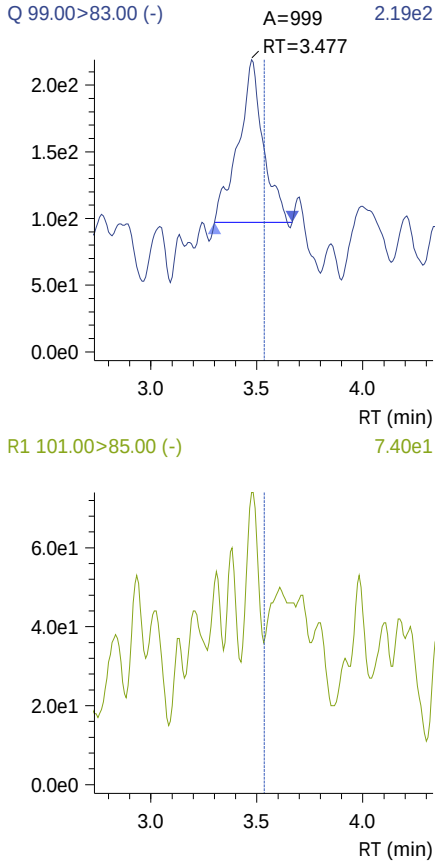
IB

Sample ID: IB
Date Acquired: 5/23/2024 3:23:59 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240523ICAL\20240523-013.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	NI	----	----	485949	----	ng/mL	101.00 >85.00	0.00	24.14 -44.84
Sodium Perchlorate -18O4_IS	Auto	3.473	485949	485949	1.0000	ng/mL	----	----	

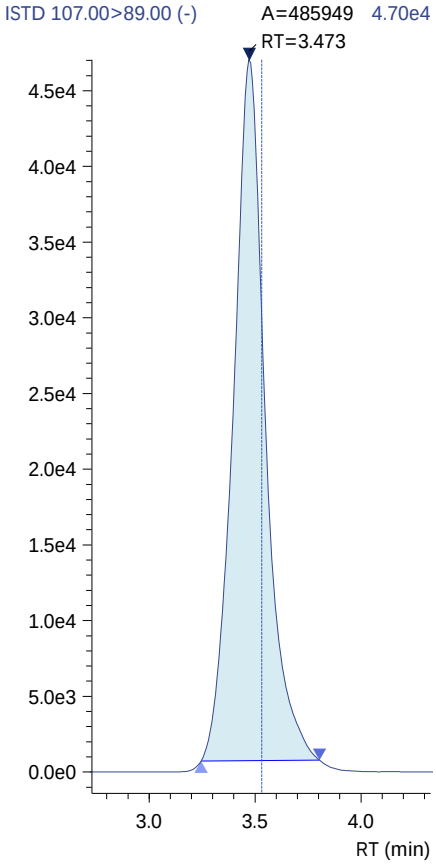
Perchlorate

Conc ----
R#1 0.00 (34.10)



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

843419

Injection Log

LCMS01 -Shimadzu 8050

1st Review: CG
2nd Review:

ICAL Date: 5/23/2024
Cal. Std. xp: 8/13/2024
ICAL ID: EC2400008

Mobile Phases : A:20mM ammonium acetate in water **3211810-9 B:**Acetonitrile 3211810-8
LODV: 233573 **CCV:233565**

	File Name	Sample Name	Acquisition Method	Dilution	Comments	Date/Time
1	20240607-007	IB	Perchlorate6850c.lcm	1x		6/7/2024 13:10
2	20240607-008	LODV	Perchlorate6850c.lcm	1x		6/7/2024 13:15
3	20240607-009	ICS	Perchlorate6850c.lcm	1x		6/7/2024 13:21
4	20240607-010	CCV	Perchlorate6850c.lcm	1x		6/7/2024 13:26
5	20240607-011	IB	Perchlorate6850c.lcm	1x		6/7/2024 13:32
6	20240607-012	EQ2400278-001	Perchlorate6850c.lcm	1x		6/7/2024 13:37
7	20240607-013	EQ2400278-002	Perchlorate6850c.lcm	1x		6/7/2024 13:43
8	20240607-014	EQ2400278-003	Perchlorate6850c.lcm	1x		6/7/2024 13:48
9	20240607-015	EQ2400278-004	Perchlorate6850c.lcm	1x	DNU ISs	6/7/2024 13:54
10	20240607-016	EQ2400278-005	Perchlorate6850c.lcm	1x	DNU ISs	6/7/2024 14:00
11	20240607-017	E2400588-001	Perchlorate6850c.lcm	1x		6/7/2024 14:05
12	20240607-018	E2400588-002	Perchlorate6850c.lcm	1x	DNU needs DL	6/7/2024 14:11
13	20240607-019	E2400588-003	Perchlorate6850c.lcm	1x	DNU Iss	6/7/2024 14:16
14	20240607-020	E2400588-004	Perchlorate6850c.lcm	1x	DNU needs DL	6/7/2024 14:23
15	20240607-021	E2400588-005	Perchlorate6850c.lcm	1x	DNU needs DL	6/7/2024 14:29
16	20240607-022	CCV	Perchlorate6850c.lcm	1x		6/7/2024 14:34
17	20240607-023	IB	Perchlorate6850c.lcm	1x		6/7/2024 14:40
18	20240607-024	EQ2400278-004	Perchlorate6850c.lcm	1x	DNU ISs	6/7/2024 14:45
19	20240607-025	EQ2400278-005	Perchlorate6850c.lcm	1x	DNU ISs	6/7/2024 14:51
20	20240607-026	E2400588-003	Perchlorate6850c.lcm	1x		6/7/2024 14:56
21	20240607-027	E2400588-006	Perchlorate6850c.lcm	1x		6/7/2024 15:02
22	20240607-028	E2400588-007	Perchlorate6850c.lcm	1x		6/7/2024 15:08
23	20240607-029	CCV	Perchlorate6850c.lcm	1x		6/7/2024 15:13
24	20240607-030	IB	Perchlorate6850c.lcm	1x		6/7/2024 15:19
25	20240607-031	E2400610-001	Perchlorate6850c.lcm	1x		6/7/2024 15:24
26	20240607-032	E2400610-002	Perchlorate6850c.lcm	1x		6/7/2024 15:30
27	20240607-033	E2400610-003	Perchlorate6850c.lcm	1x		6/7/2024 15:35
28	20240607-034	E2400610-004	Perchlorate6850c.lcm	1x		6/7/2024 15:41
29	20240607-035	E2400610-005	Perchlorate6850c.lcm	1x		6/7/2024 15:46
30	20240607-036	E2400610-006	Perchlorate6850c.lcm	1x		6/7/2024 15:52
31	20240607-037	E2400610-007	Perchlorate6850c.lcm	1x		6/7/2024 15:57
32	20240607-038	E2400610-008	Perchlorate6850c.lcm	1x		6/7/2024 16:03
33	20240607-039	E2400610-009	Perchlorate6850c.lcm	1x		6/7/2024 16:09
34	20240607-040	E2400617-001	Perchlorate6850c.lcm	1x	DNU ISs	6/7/2024 16:14
35	20240607-041	CCV	Perchlorate6850c.lcm	1x		6/7/2024 16:20
36	20240607-042	IB	Perchlorate6850c.lcm	1x		6/7/2024 16:25
37	20240607-043	E2400588-002 10x	Perchlorate6850c.lcm	10x		6/7/2024 16:31
38	20240607-044	E2400588-003 10x	Perchlorate6850c.lcm	10x		6/7/2024 16:36
39	20240607-045	E2400588-004 1000	Perchlorate6850c.lcm	10000x		6/7/2024 16:42
40	20240607-046	E2400588-005 1000	Perchlorate6850c.lcm	10000x		6/7/2024 16:47

843419

Injection Log

LCMS01 -Shimadzu 8050

1st Review: CG
2nd Review:

ICAL Date: 5/23/2024
Cal. Std. xp: 8/13/2024
ICAL ID: EC2400008

Mobile Phases : A:20mM ammonium acetate in water **3211810-9 B:**Acetonitrile 3211810-8
LODV: 233573 **CCV:233565**

	File Name	Sample Name	Acquisition Method	Dilution	Comments	Date/Time
41	20240607-047	EQ2400278-004	Perchlorate6850c.lcm	1x	DNU ISs	6/7/2024 16:53
42	20240607-048	EQ2400278-005	Perchlorate6850c.lcm	1x	DNU Iss	6/7/2024 16:59
43	20240607-049	EQ2400278-004	Perchlorate6850c.lcm	1x	DNU Low ISs needs DL	6/7/2024 17:04
44	20240607-050	EQ2400278-005	Perchlorate6850c.lcm	1x	DNU Low ISs needs DL	6/7/2024 17:10
45	20240607-051	CCV	Perchlorate6850c.lcm	1x		6/7/2024 17:15
46	20240607-052	IB	Perchlorate6850c.lcm	1x		6/7/2024 17:21
47			Perchlorate6850c.lcm	1x		

843543

Injection Log

LCMS01 -Shimadzu 8050

1st Review: CG
2nd Review:

ICAL Date: 5/23/2024
Cal. Std. xp: 8/13/2024
ICAL ID: EC2400008

Mobile Phases : A:20mM ammonium acetate in water **3211810-9 B:**Acetonitrile 3211810-8
LODV: 233573 **CCV:233565**

	File Name	Sample Name	Acquisition Method	Dilution	Comments	Date/Time
1	20240610-003	IB	Perchlorate6850c.lcm	1x		6/10/2024 12:01
2	20240610-004	LODV	Perchlorate6850c.lcm	1x		6/10/2024 12:06
3	20240610-005	ICS	Perchlorate6850c.lcm	1x		6/10/2024 12:12
4	20240610-006	CCV	Perchlorate6850c.lcm	1x		6/10/2024 12:17
5	20240610-007	IB	Perchlorate6850c.lcm	1x		6/10/2024 12:23
6	20240610-008	EQ2400278-004 10x	Perchlorate6850c.lcm	10x		6/10/2024 12:28
7	20240610-009	EQ2400278-005 10x	Perchlorate6850c.lcm	10x		6/10/2024 12:34
8	20240610-010	E2400617-001 5x	Perchlorate6850c.lcm	5x		6/10/2024 12:40
9	20240610-011	CCV	Perchlorate6850c.lcm	1x		6/10/2024 12:45
10	20240610-012	IB	Perchlorate6850c.lcm	1x		6/10/2024 12:51
11	20240610-013	EQ2400278-004 10x	Perchlorate6850c.lcm	1x	DNU RI for confirmation	6/10/2024 12:58
12	20240610-014	EQ2400278-005 10x	Perchlorate6850c.lcm	1x	DNU RI for confirmation	6/10/2024 13:03
13	20240610-015	CCV	Perchlorate6850c.lcm	1x	DNU RI for confirmation	6/10/2024 13:09
14	20240610-016	IB	Perchlorate6850c.lcm	1x	DNU RI for confirmation	6/10/2024 13:14
15			Perchlorate6850c.lcm	1x		
16			Perchlorate6850c.lcm	1x		
17			Perchlorate6850c.lcm	1x		
18			Perchlorate6850c.lcm	1x		
19			Perchlorate6850c.lcm	1x		
20			Perchlorate6850c.lcm	1x		
21			Perchlorate6850c.lcm	1x		
22			Perchlorate6850c.lcm	1x		
23			Perchlorate6850c.lcm	1x		
24			Perchlorate6850c.lcm	1x		
25			Perchlorate6850c.lcm	1x		
26			Perchlorate6850c.lcm	1x		
27			Perchlorate6850c.lcm	1x		
28			Perchlorate6850c.lcm	1x		
29			Perchlorate6850c.lcm	1x		
30			Perchlorate6850c.lcm	1x		
31			Perchlorate6850c.lcm	1x		
32			Perchlorate6850c.lcm	1x		
33			Perchlorate6850c.lcm	1x		
34			Perchlorate6850c.lcm	1x		
35			Perchlorate6850c.lcm	1x		
36			Perchlorate6850c.lcm	1x		
37			Perchlorate6850c.lcm	1x		
38			Perchlorate6850c.lcm	1x		
39			Perchlorate6850c.lcm	1x		
40			Perchlorate6850c.lcm	1x		

843543

Injection Log

LCMS01 -Shimadzu 8050

1st Review: CG
2nd Review:

ICAL Date: 5/23/2024
Cal. Std. xp: 8/13/2024
ICAL ID: EC2400008

Mobile Phases : A:20mM ammonium acetate in water **3211810-9 B:**Acetonitrile 3211810-8
LODV: 233573 **CCV:233565**

	File Name	Sample Name	Acquisition Method	Dilution	Comments	Date/Time
41			Perchlorate6850c.lcm	1x		
42			Perchlorate6850c.lcm	1x		
43			Perchlorate6850c.lcm	1x		
44			Perchlorate6850c.lcm	1x		
45			Perchlorate6850c.lcm	1x		
46			Perchlorate6850c.lcm	1x		
47			Perchlorate6850c.lcm	1x		

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS24051490

Service Request: E2400588
Date Analyzed: 6/7/24 13:26

Internal Standard Area and RT Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

File ID: I:\LCMS01\DATA\20240607\20240607-010
Instrument ID: E-LCMS-01
Analytical Method: 6850

Lab Code: EQ2400297-01
Analysis Lot: 843419
Signal ID: 1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	466,310	3.47
	Upper Limit ==>	699,465	5.47
	Lower Limit ==>	233,155	1.47
Associated Analyses			
Continuing Calibration Verification	EQ2400297-01	266,955	3.45
Method Blank	EQ2400278-01	295,976	3.45
Lab Control Sample	EQ2400278-02	290,556	3.45
50WW09_052224	E2400588-001	235,143	3.44

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

QA/QC Report

Client: ALS Environmental - US **Service Request:** E2400588
Project: HS24051490 **Date Analyzed:** 6/7/24 14:34

Internal Standard Area and RT Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

File ID: I:\LCMS01\DATA\20240607\20240607-022 **Lab Code:** EQ2400297-02
Instrument ID: E-LCMS-01 **Analysis Lot:** 843419
Analytical Method: 6850 **Signal ID:** 1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	466,310	3.47
	Upper Limit ==>	699,465	5.47
	Lower Limit ==>	233,155	1.47
Associated Analyses			
Continuing Calibration Verification	EQ2400297-02	278,438	3.45
50WW06_052224	E2400588-006	301,406	3.45
50WW06_052224_a	E2400588-007	297,390	3.45

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: HS24051490

Service Request: E2400588
Date Analyzed: 6/7/24 15:13

Internal Standard Area and RT Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

File ID: I:\LCMS01\DATA\20240607\20240607-029
Instrument ID: E-LCMS-01
Analytical Method: 6850

Lab Code: EQ2400297-03
Analysis Lot: 843419
Signal ID: 1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	466,310	3.47
	Upper Limit ==>	699,465	5.47
	Lower Limit ==>	233,155	1.47
Associated Analyses			
Continuing Calibration Verification	EQ2400297-03	307,303	3.45

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: HS24051490

Service Request: E2400588
Date Analyzed: 6/7/24 16:20

Internal Standard Area and RT Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

File ID: I:\LCMS01\DATA\20240607\20240607-041
Instrument ID: E-LCMS-01
Analytical Method: 6850

Lab Code: EQ2400297-04
Analysis Lot: 843419
Signal ID: 1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	466,310	3.47
	Upper Limit ==>	699,465	5.47
	Lower Limit ==>	233,155	1.47
Associated Analyses			
Continuing Calibration Verification	EQ2400297-04	312,393	3.45
50WW08_052224	E2400588-002	307,352	3.45
50WW23_052224	E2400588-003	345,629	3.45
50WW12_052224	E2400588-004	296,573	3.44
50WW12_052224_a	E2400588-005	304,222	3.45

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: HS24051490

Service Request: E2400588
Date Analyzed: 6/7/24 17:15

Internal Standard Area and RT Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

File ID: I:\LCMS01\DATA\20240607\20240607-051
Instrument ID: E-LCMS-01
Analytical Method: 6850

Lab Code: EQ2400297-05
Analysis Lot: 843419
Signal ID: 1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	466,310	3.47
	Upper Limit ==>	699,465	5.47
	Lower Limit ==>	233,155	1.47
Associated Analyses			
Continuing Calibration Verification	EQ2400297-05	294,125	3.45

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

QA/QC Report

Client: ALS Environmental - US **Service Request:** E2400588
Project: HS24051490 **Date Analyzed:** 6/10/24 12:17

Internal Standard Area and RT Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

File ID: I:\LCMS01\DATA\20240610\20240610-006 **Lab Code:** EQ2400301-01
Instrument ID: E-LCMS-01 **Analysis Lot:** 843543
Analytical Method: 6850 **Signal ID:** 1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	466,310	3.47
	Upper Limit ==>	699,465	5.47
	Lower Limit ==>	233,155	1.47
Associated Analyses			
Continuing Calibration Verification	EQ2400301-01	259,873	3.45
50WW23_052224MS	EQ2400278-04	357,387	3.46
50WW23_052224DMS	EQ2400278-05	355,897	3.46

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

QA/QC Report

Client: ALS Environmental - US **Service Request:** E2400588
Project: HS24051490 **Date Analyzed:** 6/10/24 12:45

Internal Standard Area and RT Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

File ID: I:\LCMS01\DATA\20240610\20240610-011 **Lab Code:** EQ2400301-02
Instrument ID: E-LCMS-01 **Analysis Lot:** 843543
Analytical Method: 6850 **Signal ID:** 1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	466,310	3.47
	Upper Limit ==>	699,465	5.47
	Lower Limit ==>	233,155	1.47
Associated Analyses			
Continuing Calibration Verification	EQ2400301-02	261,403	3.46

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

Client: ALS Environmental - US **Service Request:** E2400588
Project: HS24051490 **Date Analyzed:** 6/ 7/24

Continuing Calibration Verification Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850 **Calibration Date:** 5/23/24
File ID: I:\LCMS01\DATA\20240607\20240607-010 **Calibration ID:** EC2400008
Analysis Lot: 843419
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	10.5	0.1325	0.1386	4.6	NA	± 15 %	Average RF

QA/QC Report

Client: ALS Environmental - US **Service Request:** E2400588
Project: HS24051490 **Date Analyzed:** 6/ 7/24

Continuing Calibration Verification Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850 **Calibration Date:** 5/23/24
File ID: I:\LCMS01\DATA\20240607\20240607-022 **Calibration ID:** EC2400008
Analysis Lot: 843419
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	10.6	0.1325	0.1410	6.4	NA	± 15 %	Average RF

QA/QC Report

Client: ALS Environmental - US **Service Request:** E2400588
Project: HS24051490 **Date Analyzed:** 6/ 7/24

Continuing Calibration Verification Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850 **Calibration Date:** 5/23/24
File ID: I:\LCMS01\DATA\20240607\20240607-029 **Calibration ID:** EC2400008
Analysis Lot: 843419
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	10.1	0.1325	0.1342	1.3	NA	± 15 %	Average RF

QA/QC Report

Client: ALS Environmental - US **Service Request:** E2400588
Project: HS24051490 **Date Analyzed:** 6/ 7/24

Continuing Calibration Verification Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850 **Calibration Date:** 5/23/24
File ID: I:\LCMS01\DATA\20240607\20240607-041 **Calibration ID:** EC2400008
Analysis Lot: 843419
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	10.5	0.1325	0.1396	5.4	NA	± 15 %	Average RF

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS24051490

Service Request: E2400588
Date Analyzed: 6/ 7/24

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\20240607\20240607-051

Calibration Date: 5/23/24
Calibration ID: EC2400008
Analysis Lot: 843419
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	10.4	0.1325	0.1373	3.6	NA	± 15 %	Average RF

QA/QC Report

Client: ALS Environmental - US **Service Request:** E2400588
Project: HS24051490 **Date Analyzed:** 6/10/24

Continuing Calibration Verification Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850 **Calibration Date:** 5/23/24
File ID: I:\LCMS01\DATA\20240610\20240610-006 **Calibration ID:** EC2400008
Analysis Lot: 843543
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	10.6	0.1325	0.1404	6.0	NA	± 15 %	Average RF

QA/QC Report

Client: ALS Environmental - US **Service Request:** E2400588
Project: HS24051490 **Date Analyzed:** 6/10/24

Continuing Calibration Verification Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850 **Calibration Date:** 5/23/24
File ID: I:\LCMS01\DATA\20240610\20240610-011 **Calibration ID:** EC2400008
Analysis Lot: 843543
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	10.7	0.1325	0.1422	7.3	NA	± 15 %	Average RF

Insight Report

Method File: I:\LCMS01\DATA\20240607\20240607.lcm
Project File: I:\LCMS01\DATA\20240607\20240607.damlp

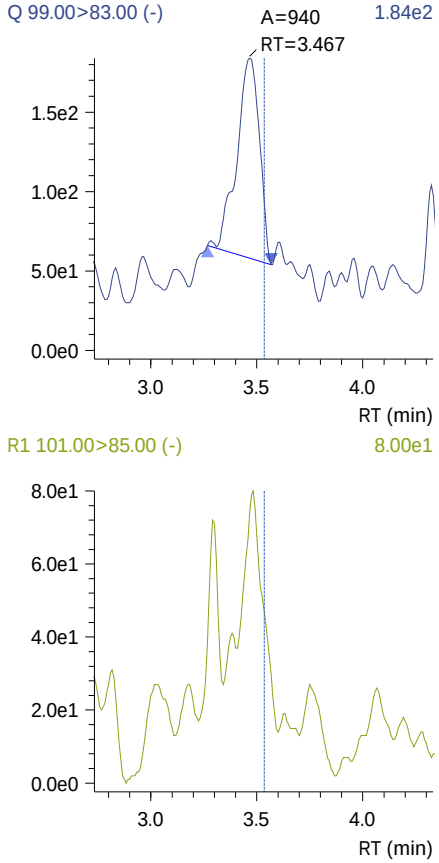
IB

Sample ID: IB
Date Acquired: 6/7/2024 1:10:07 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240607\20240607-007.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	NI	----	----	276150	----	ng/mL	101.00 >85.00	0.00	23.50 -43.64
Sodium Perchlorate -18O4_IS	Auto	3.454	276150	276150	1.0000	ng/mL	----	----	

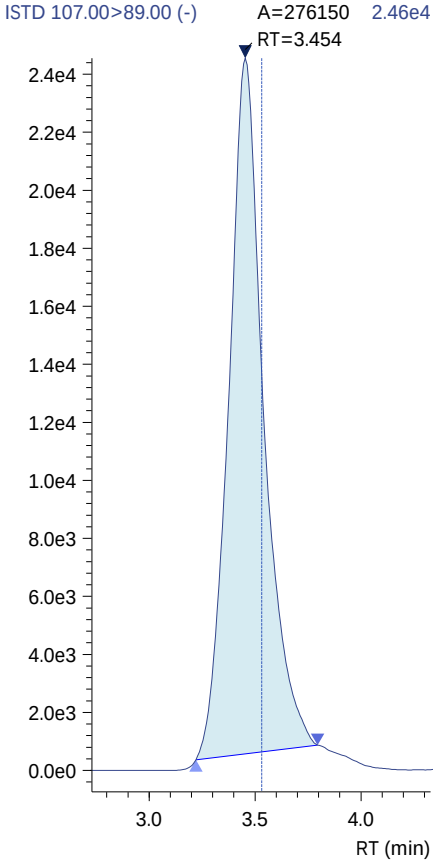
Perchlorate

Conc ----
R#1 0.00 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/10/2024 9:43:43 AM

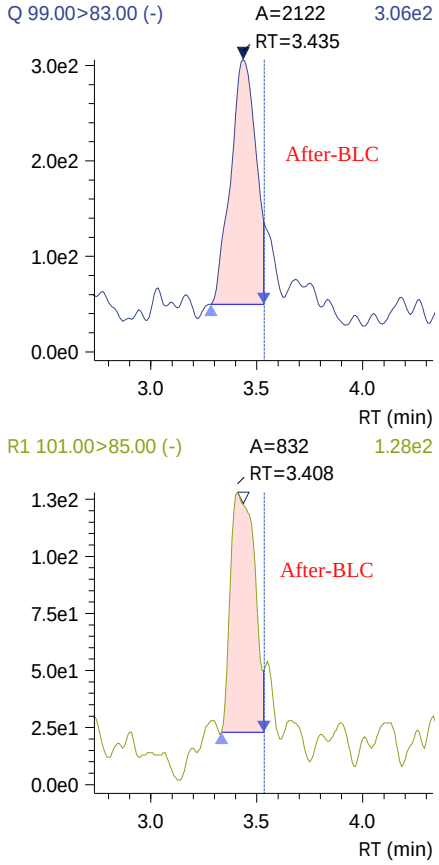
LODV

Sample ID: LODV
Date Acquired: 6/7/2024 1:15:41 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240607\20240607-008.lcd
Vial: 12 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.435	2122	281420	0.0569	ng/mL	101.00 >85.00	39.23	23.50 -43.64
Sodium Perchlorate -18O4_IS	Auto	3.454	281420	281420	1.0000	ng/mL	----	----	

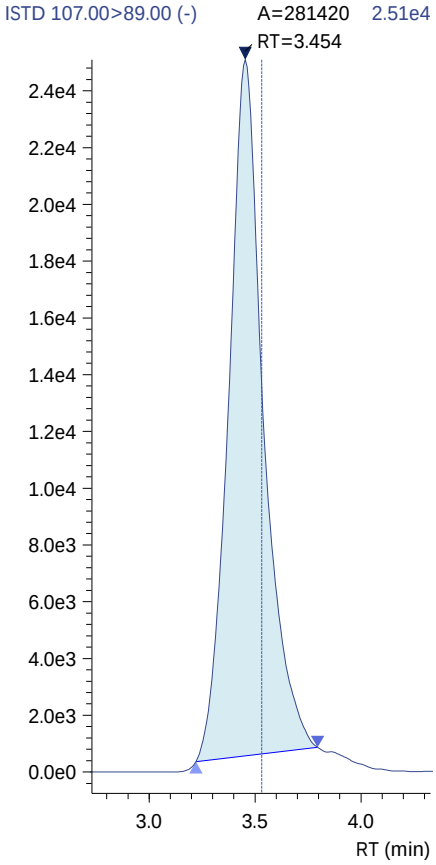
Perchlorate

Conc 0.0569
R#1 39.23 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

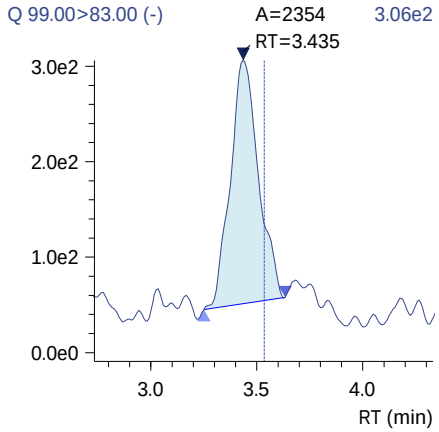
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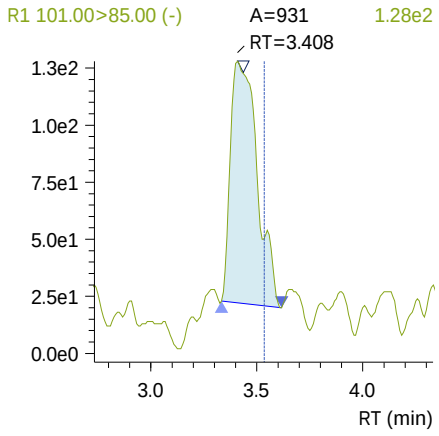
LODV

Sample ID: LODV
Date Acquired: 6/7/2024 1:15:41 PM
Acquired by: System Administrator
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Vial: 12 | Inj. Volume: 10.0000uL | Tray: 1

Perchlorate

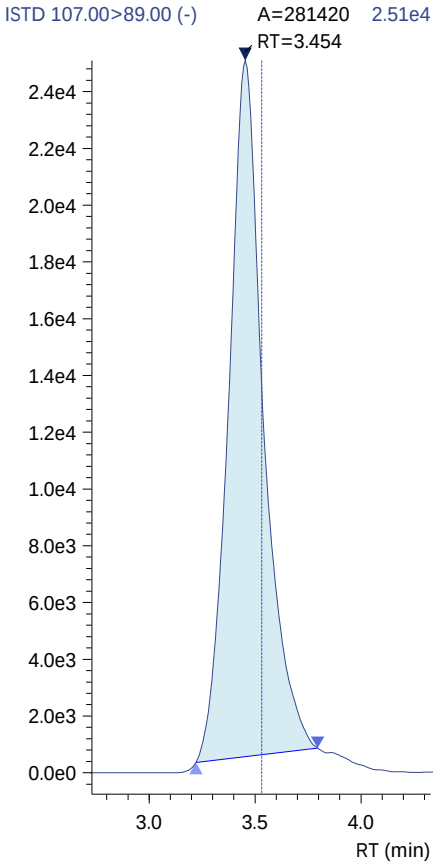
Conc 0.0631
R#1 39.54 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

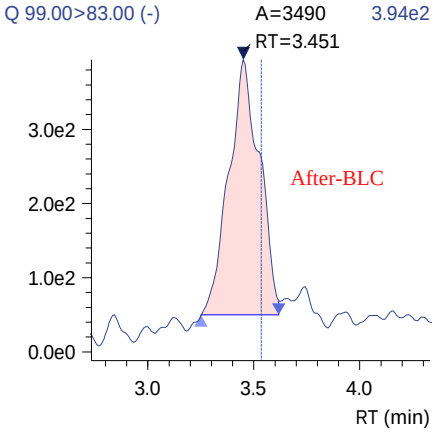
ICS

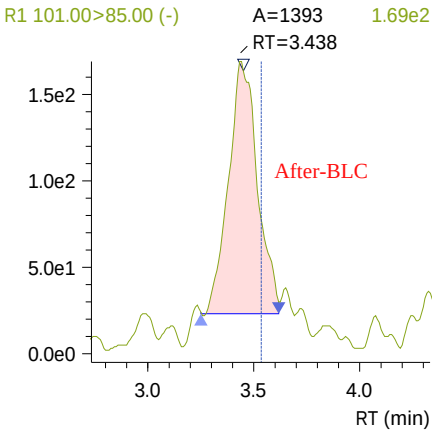
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Date Acquired: 6/7/2024 1:21:15 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240607\20240607-009.lcd
Vial: 15 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.451	3490	257954	0.1021	ng/mL	101.00 >85.00	39.90	23.50 -43.64
Sodium Perchlorate -18O4_IS	Auto	3.450	257954	257954	1.0000	ng/mL	----	----	

Perchlorate

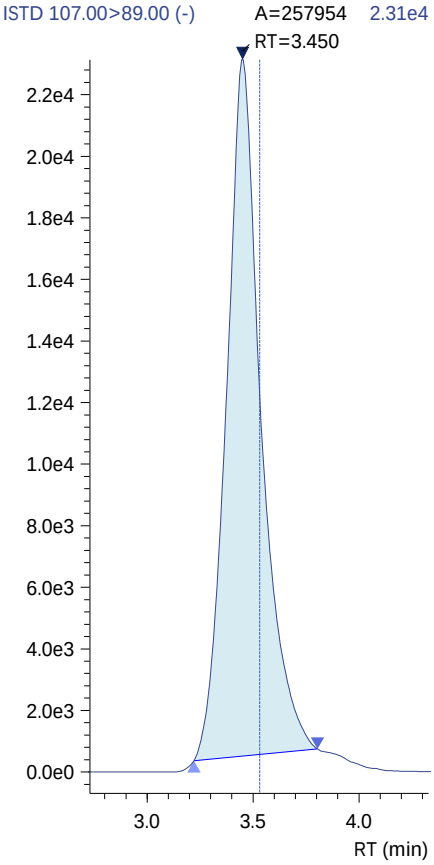
Conc 0.1021
R#1 39.90 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



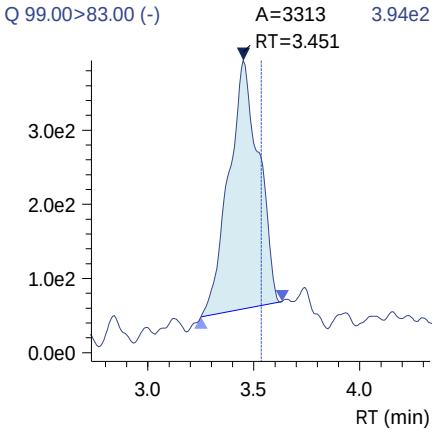
Insight Report

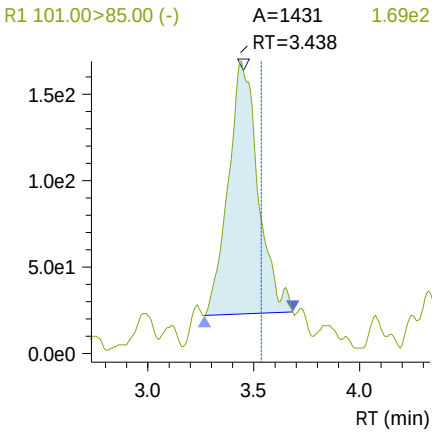
ICS

Sample ID: ICS
Date Acquired: 6/7/2024 1:21:15 PM
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Vial: 15 | Inj. Volume: 10.0000uL | Tray: 1

Perchlorate

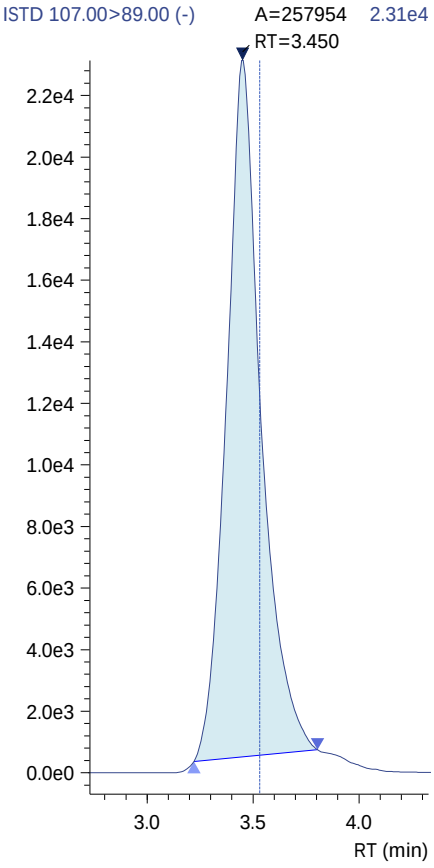
Conc 0.0970
R#1 43.19 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/10/2024 9:43:43 AM

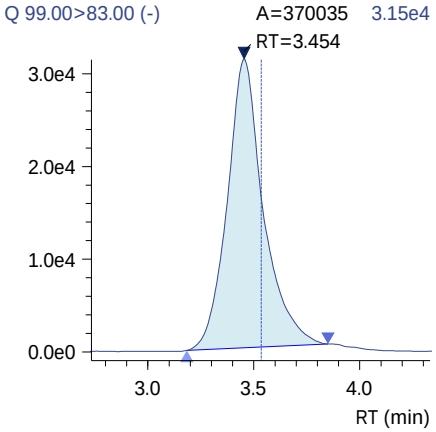
CCV

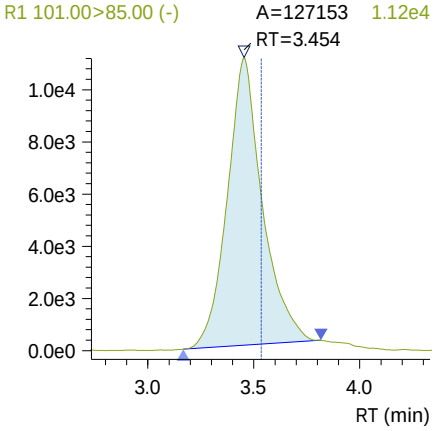
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Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240607\20240607-010.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.454	370035	266955	10.4646	ng/mL	101.00 >85.00	34.36	23.50 -43.64
Sodium Perchlorate -18O4_IS	Auto	3.451	266955	266955	1.0000	ng/mL	----	----	

Perchlorate

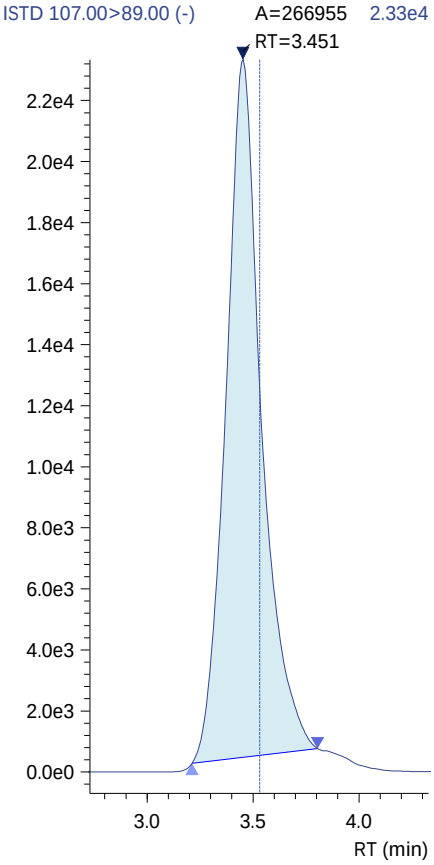
Conc 10.4646
R#1 34.36 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

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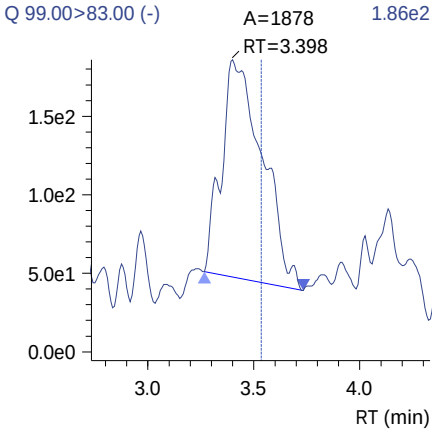
IB

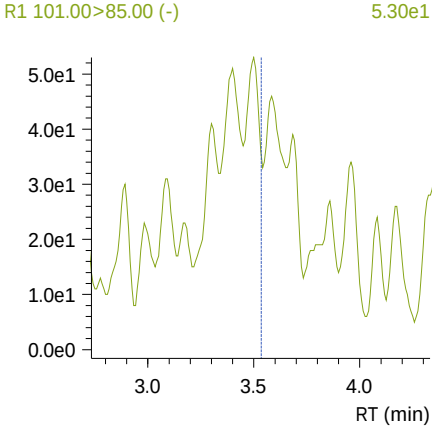
Sample ID: IB
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Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240607\20240607-011.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	NI	----	----	286772	----	ng/mL	101.00 >85.00	0.00	23.50 -43.64
Sodium Perchlorate -18O4_IS	Auto	3.454	286772	286772	1.0000	ng/mL	----	----	

Perchlorate

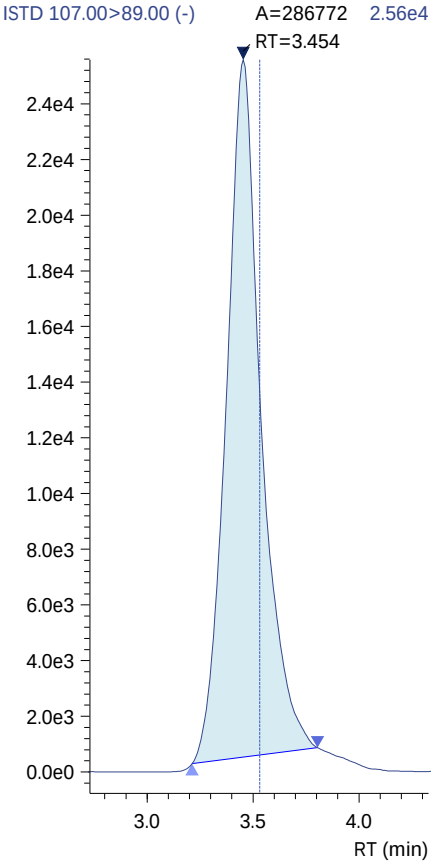
Conc ----
R#1 0.00 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/10/2024 9:43:43 AM

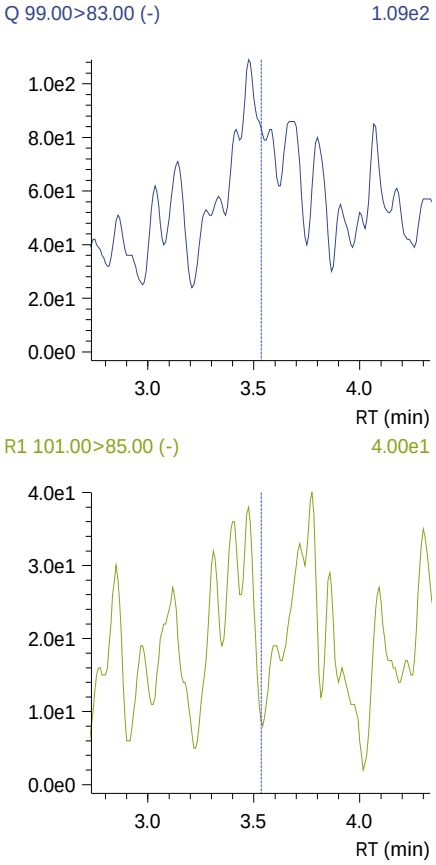
EQ2400278-001

Sample ID: EQ2400278-001
Date Acquired: 6/7/2024 1:37:50 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240607\20240607-012.lcd
Vial: 19 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	ND(W/B)	----	----	295976	----	ng/mL	101.00 >85.00	0.00	23.50 -43.64
Sodium Perchlorate-18O4_IS	Auto	3.452	295976	295976	1.0000	ng/mL	----	----	

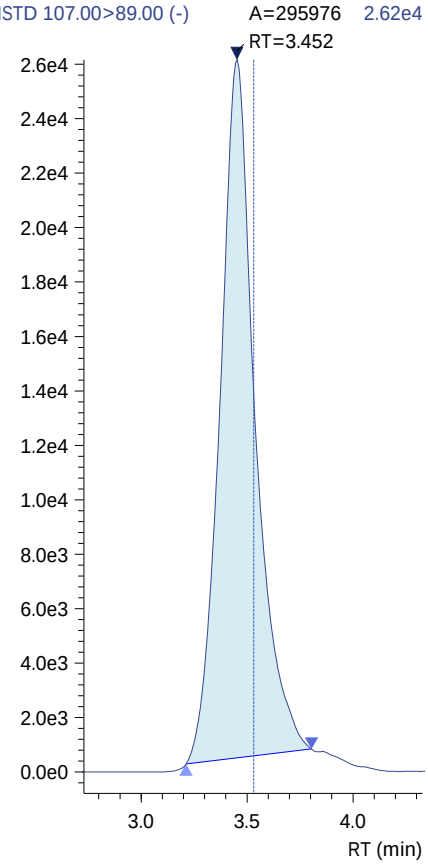
Perchlorate

Conc ----
R#1 0.00 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/10/2024 9:43:43 AM

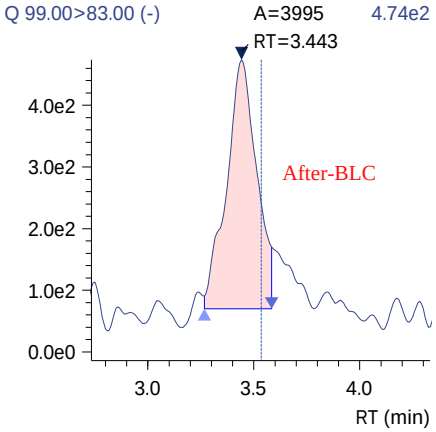
EQ2400278-002

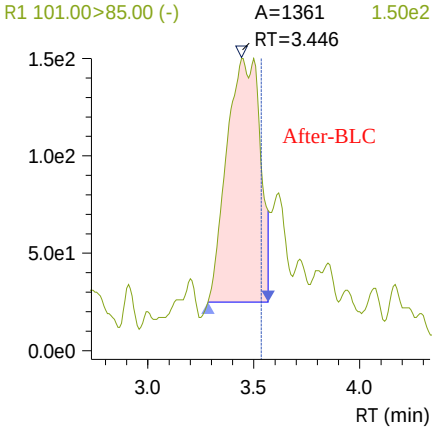
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Date Acquired: 6/7/2024 1:43:24 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240607\20240607-013.lcd
Vial: 20 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.443	3995	290556	0.1038	ng/mL	101.00 >85.00	34.06	23.50 -43.64
Sodium Perchlorate -18O4_IS	Auto	3.450	290556	290556	1.0000	ng/mL	----	----	

Perchlorate

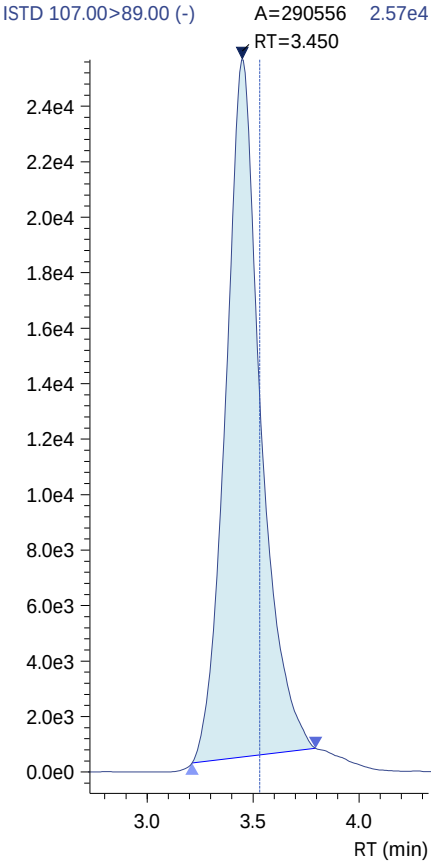
Conc 0.1038
R#1 34.06 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/10/2024 9:44:33 AM

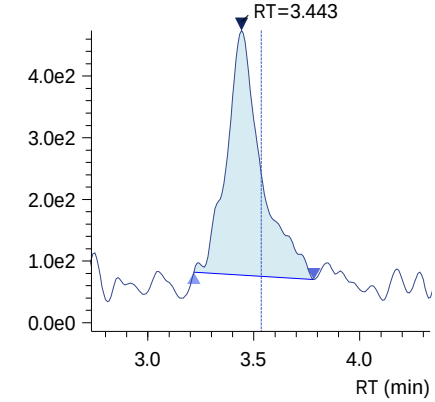
EQ2400278-002

Sample ID: EQ2400278-002
Date Acquired: 6/7/2024 1:43:24 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240607\20240607-013.lcd
Vial: 20 | Inj. Volume: 10.0000uL | Tray: 1

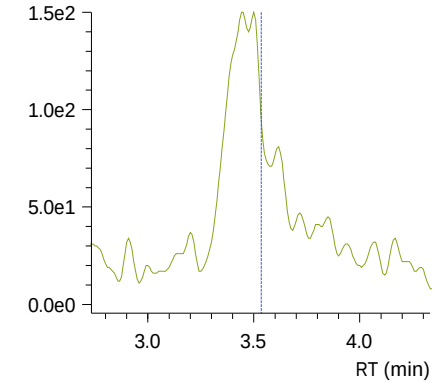
Perchlorate

Conc 0.1176
R#1 0.00 (34.10)

Q 99.00>83.00 (-) A=4528 4.74e2
RT=3.443



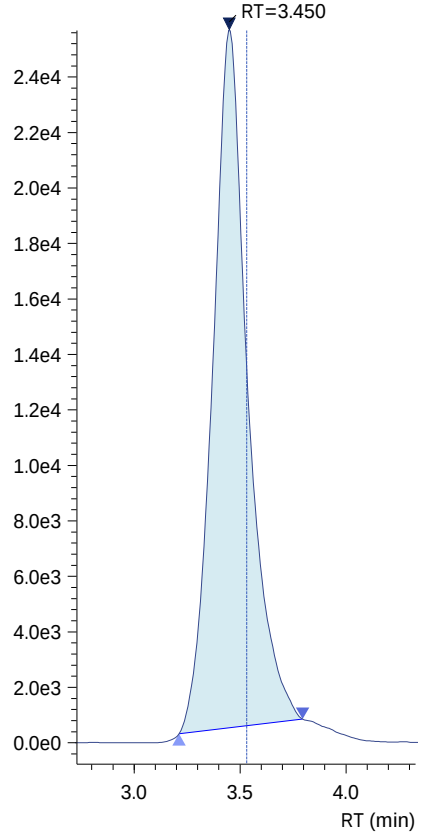
R1 101.00>85.00 (-) 1.50e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=290556 2.57e4
RT=3.450



Insight Report

Printed at 6/10/2024 9:43:43 AM

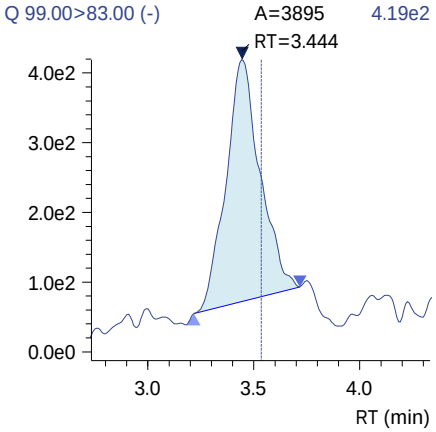
EQ2400278-003

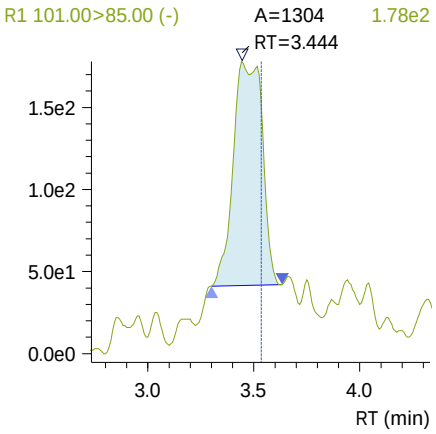
Sample ID: EQ2400278-003
Date Acquired: 6/7/2024 1:48:59 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240607\20240607-014.lcd
Vial: 21 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.444	3895	275290	0.1068	ng/mL	101.00 >85.00	33.47	23.50 -43.64
Sodium Perchlorate -18O4_IS	Auto	3.450	275290	275290	1.0000	ng/mL	----	----	

Perchlorate

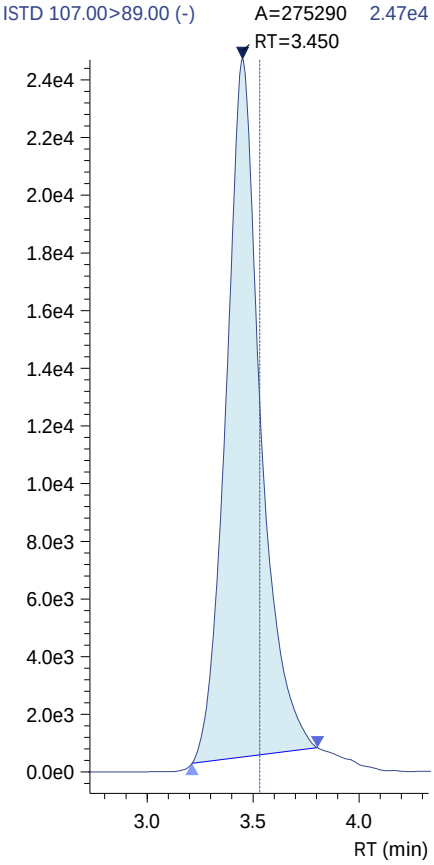
Conc 0.1068
R#1 33.47 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/10/2024 9:43:43 AM

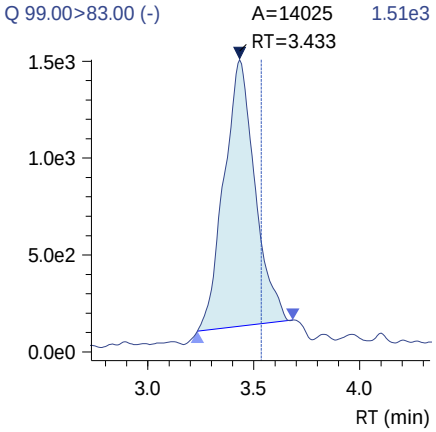
E2400588-001

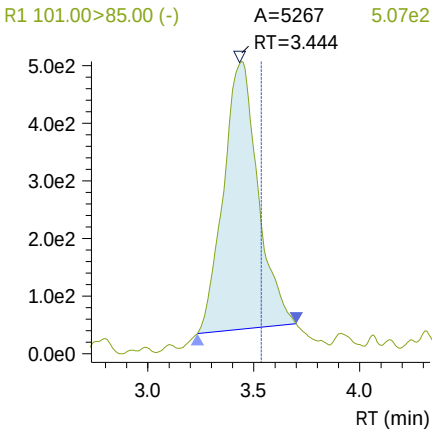
Sample ID: E2400588-001
Date Acquired: 6/7/2024 2:05:43 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240607\20240607-017.lcd
Vial: 24 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.433	14025	235143	0.4503	ng/mL	101.00 >85.00	37.55	23.50 -43.64
Sodium Perchlorate -18O4_IS	Auto	3.439	235143	235143	1.0000	ng/mL	----	----	

Perchlorate

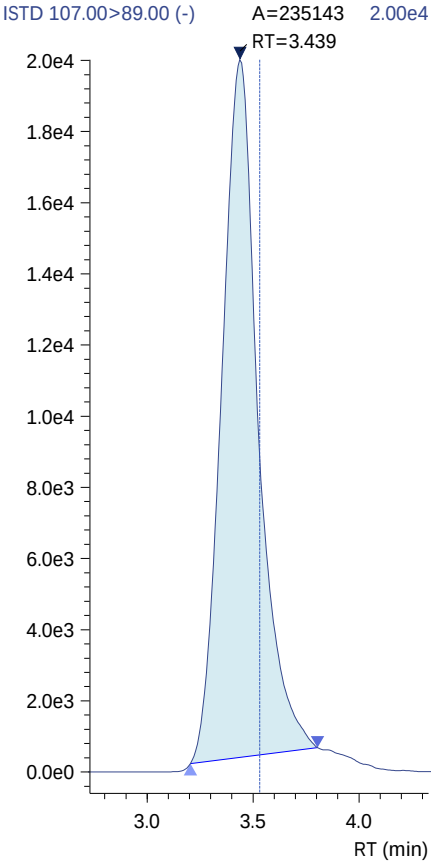
Conc 0.4503
R#1 37.55 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/10/2024 9:43:43 AM

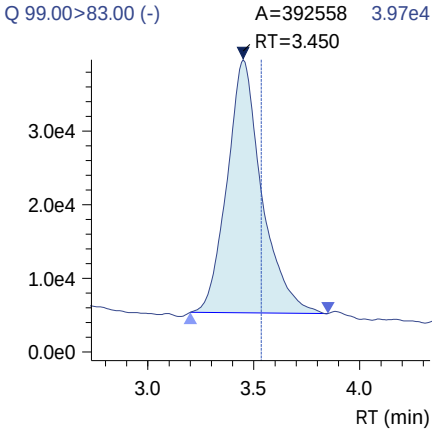
CCV

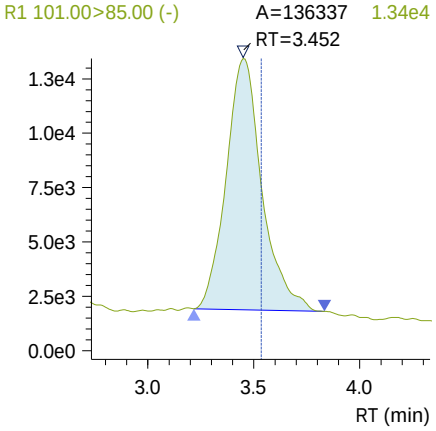
Sample ID: CCV
Date Acquired: 6/7/2024 2:34:43 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240607\20240607-022.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.450	392558	278438	10.6437	ng/mL	101.00 >85.00	34.73	23.50 -43.64
Sodium Perchlorate -18O4_IS	Auto	3.449	278438	278438	1.0000	ng/mL	----	----	

Perchlorate

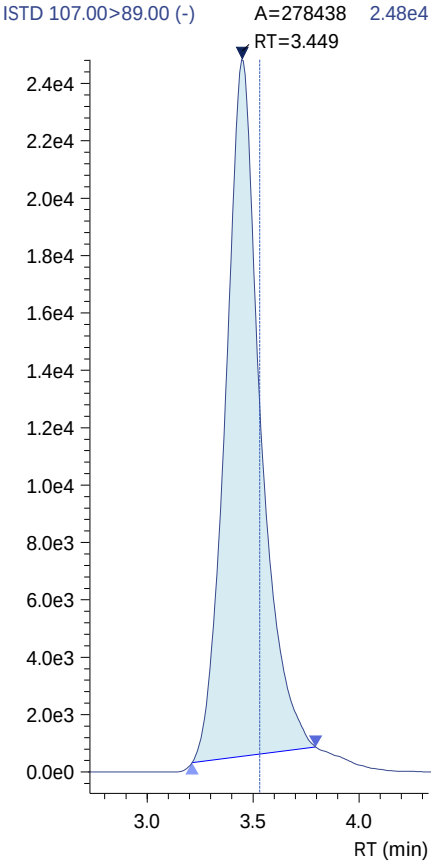
Conc 10.6437
R#1 34.73 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/10/2024 9:43:43 AM

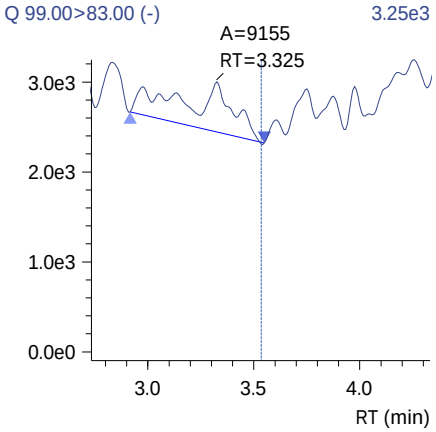
IB

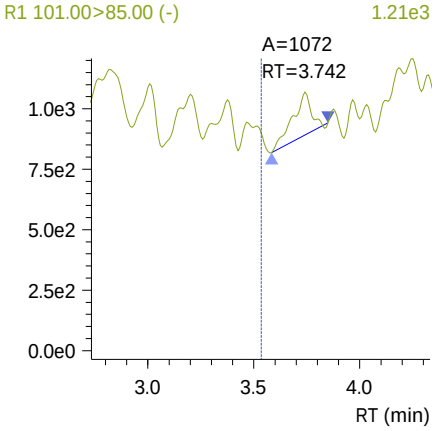
Sample ID: IB
Date Acquired: 6/7/2024 2:40:17 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240607\20240607-023.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	NI	----	----	298533	----	ng/mL	101.00 >85.00	0.00	23.50 -43.64
Sodium Perchlorate -18O4_IS	Auto	3.449	298533	298533	1.0000	ng/mL	----	----	

Perchlorate

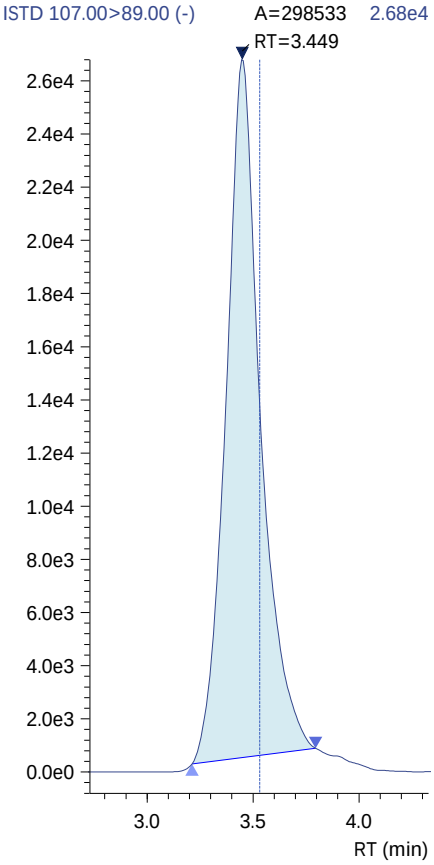
Conc ----
R#1 0.00 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/10/2024 9:43:43 AM

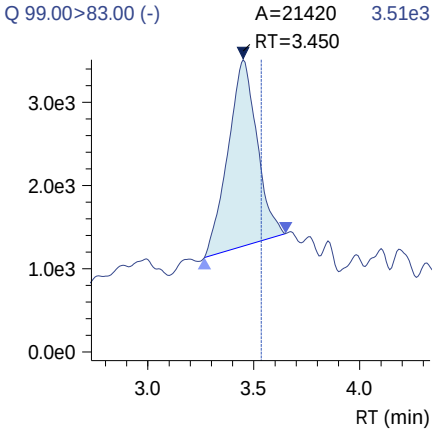
E2400588-006

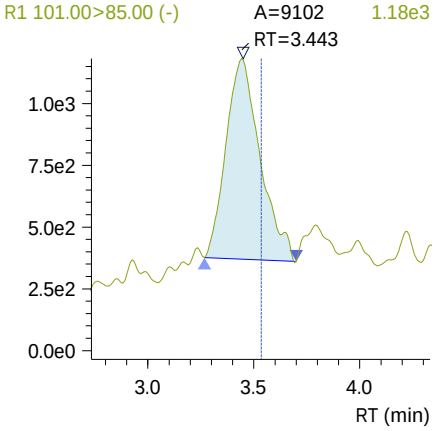
Sample ID: E2400588-006
Date Acquired: 6/7/2024 3:02:31 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240607\20240607-027.lcd
Vial: 29 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.450	21420	301406	0.5365	ng/mL	101.00 >85.00	42.49	23.50 -43.64
Sodium Perchlorate -18O4_IS	Auto	3.449	301406	301406	1.0000	ng/mL	----	----	

Perchlorate

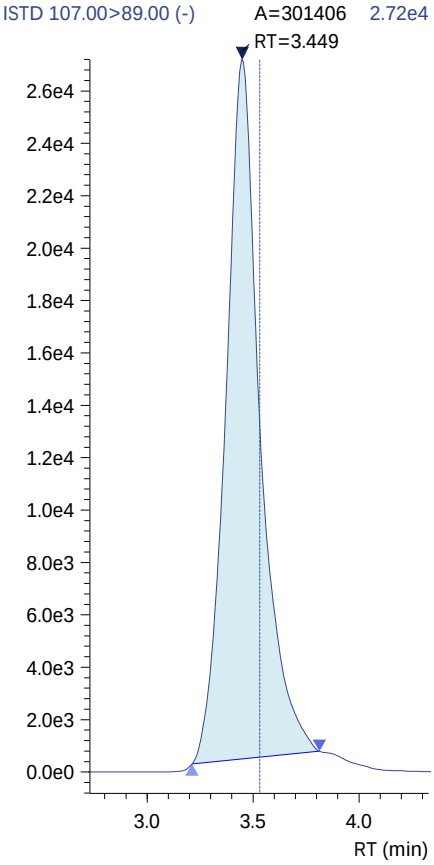
Conc 0.5365
R#1 42.49 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/10/2024 9:43:43 AM

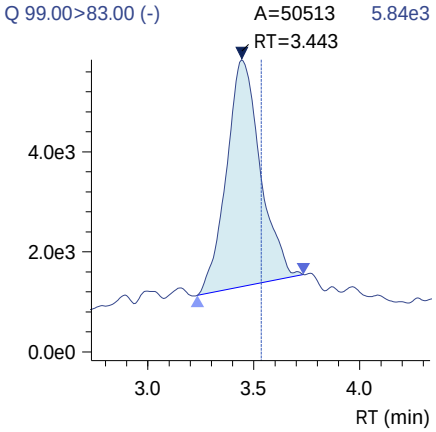
E2400588-007

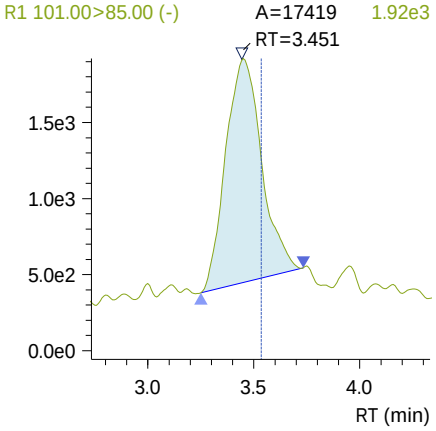
Sample ID: E2400588-007
Date Acquired: 6/7/2024 3:08:05 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240607\20240607-028.lcd
Vial: 30 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.443	50513	297390	1.2823	ng/mL	101.00 >85.00	34.49	23.50 -43.64
Sodium Perchlorate -18O4_IS	Auto	3.449	297390	297390	1.0000	ng/mL	----	----	

Perchlorate

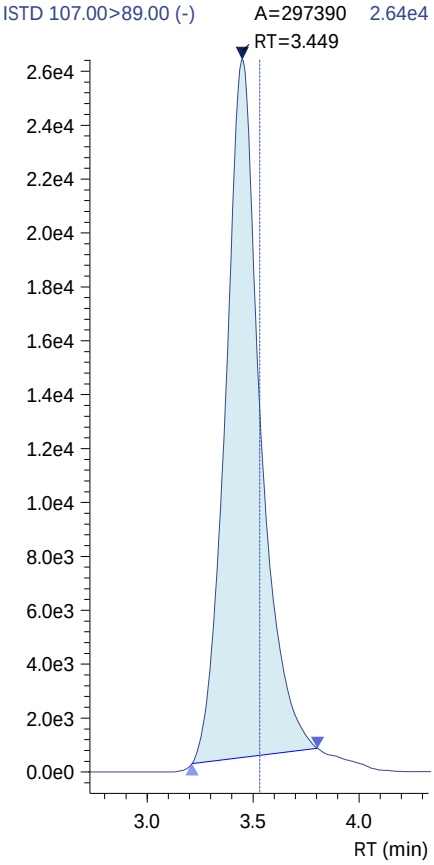
Conc 1.2823
R#1 34.49 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/10/2024 9:43:43 AM

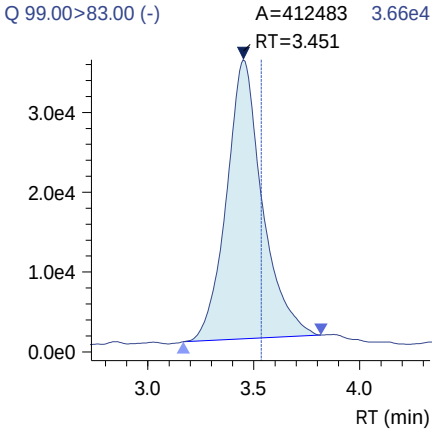
CCV

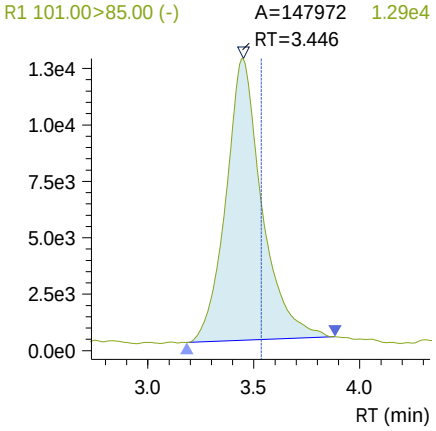
Sample ID: CCV
Date Acquired: 6/7/2024 3:13:36 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240607\20240607-029.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.451	412483	307303	10.1 334	ng/mL	101.00 >85.00	35.87	23.50 -43.64
Sodium Perchlorate -18O4_IS	M	3.447	307303	307303	1.0000	ng/mL	----	----	

Perchlorate

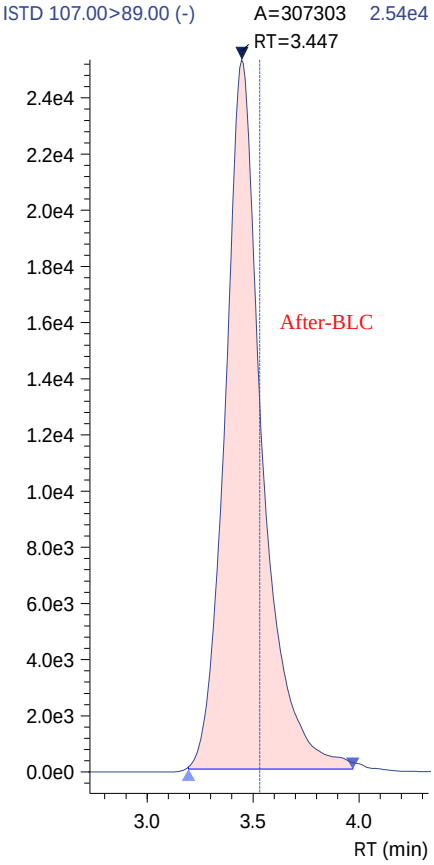
Conc 10.1334
R#1 35.87 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/10/2024 9:44:33 AM

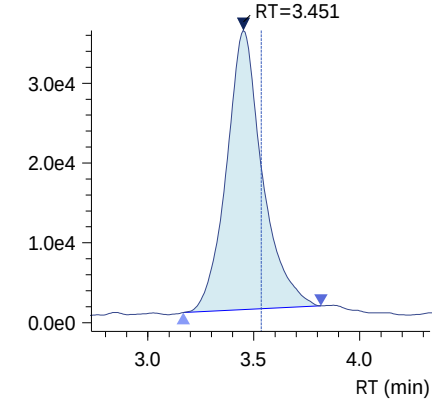
CCV

Sample ID: CCV
Date Acquired: 6/7/2024 3:13:36 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240607\20240607-029.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

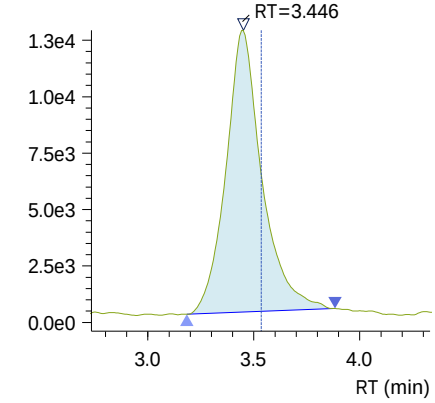
Perchlorate

Conc 10.8887
R#1 35.87 (34.10)

Q 99.00>83.00 (-) A=412483 3.66e4



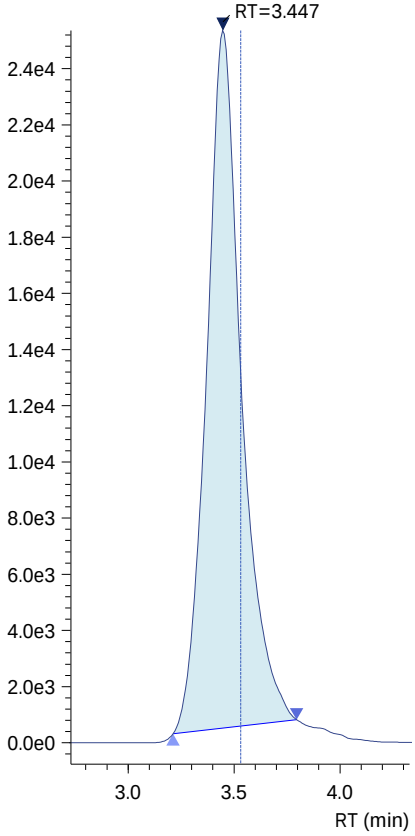
R1 101.00>85.00 (-) A=147972 1.29e4



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=285988 2.54e4



Insight Report

Printed at 6/10/2024 9:43:43 AM

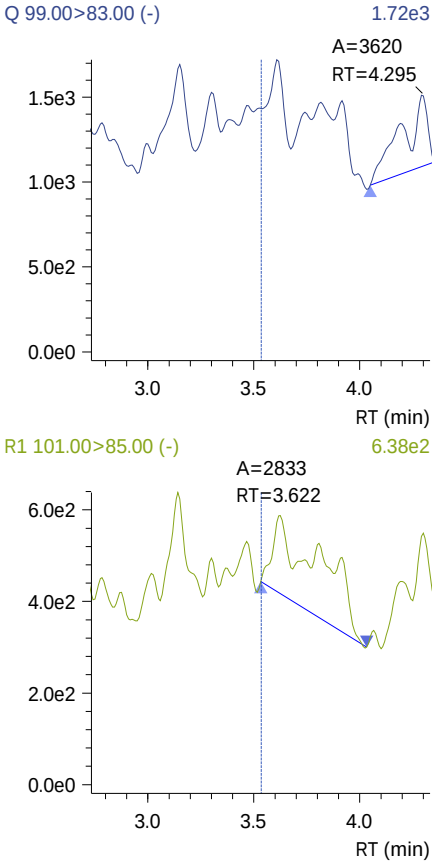
IB

Sample ID: IB
Date Acquired: 6/7/2024 3:19:07 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240607\20240607-030.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	ND(W/B)	----	----	301511	----	ng/mL	101.00 >85.00	0.00	23.50 -43.64
Sodium Perchlorate-18O4_IS	Auto	3.450	301511	301511	1.0000	ng/mL	----	----	

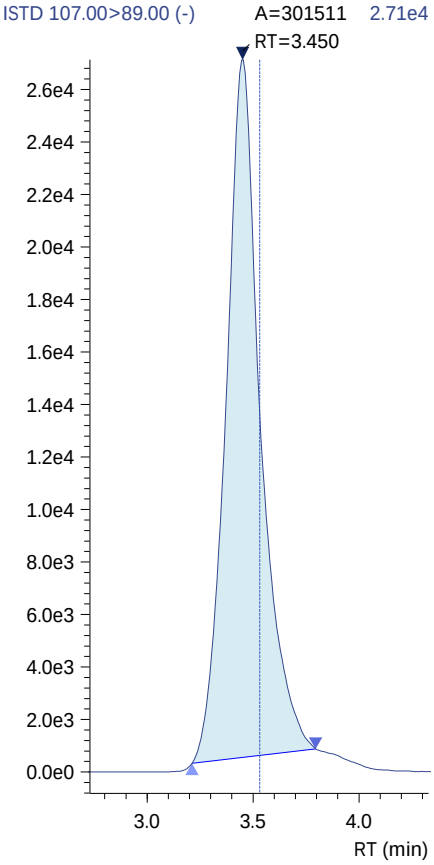
Perchlorate

Conc ----
R#1 0.00 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/10/2024 9:43:43 AM

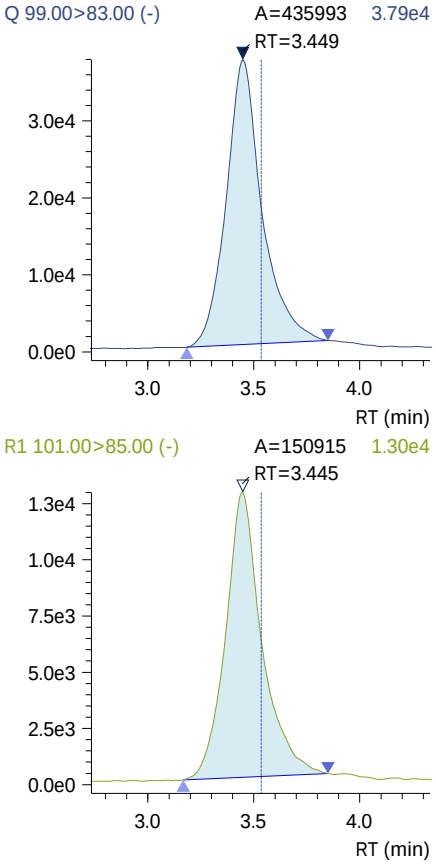
CCV

Sample ID: CCV
Date Acquired: 6/7/2024 4:20:05 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240607\20240607-041.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.449	435993	312393	10.5	ng/mL	101.00	34.61	23.50
					365		>85.00		-43.64
Sodium Perchlorate -18O4_IS	M	3.447	312393	312393	1.0000	ng/mL	----	----	

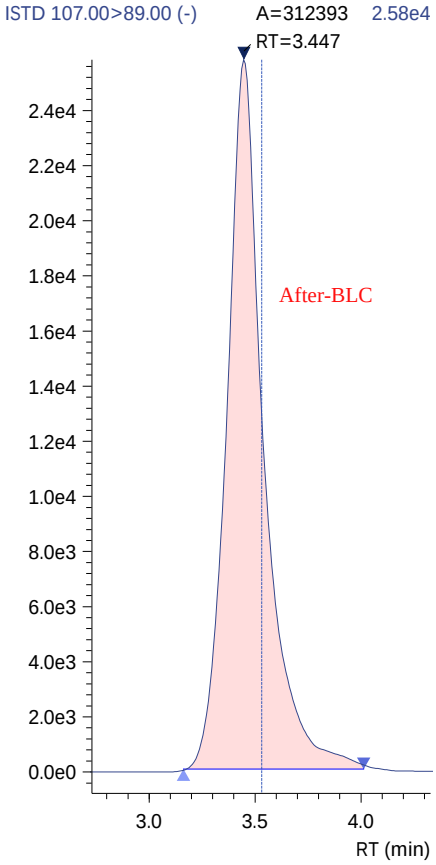
Perchlorate

Conc 10.5365
R#1 34.61 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

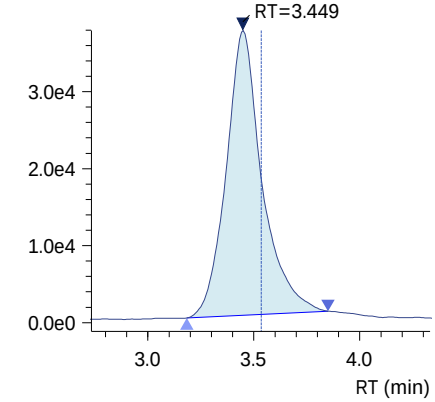
CCV

Sample ID: CCV
Date Acquired: 6/7/2024 4:20:05 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240607\20240607-041.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

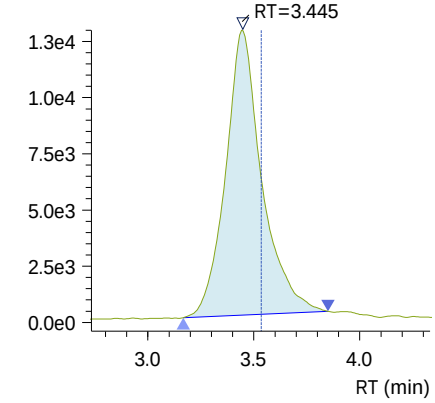
Perchlorate

Conc 11.4304
R#1 34.61 (34.10)

Q 99.00>83.00 (-) A=435993 3.79e4 RT=3.449



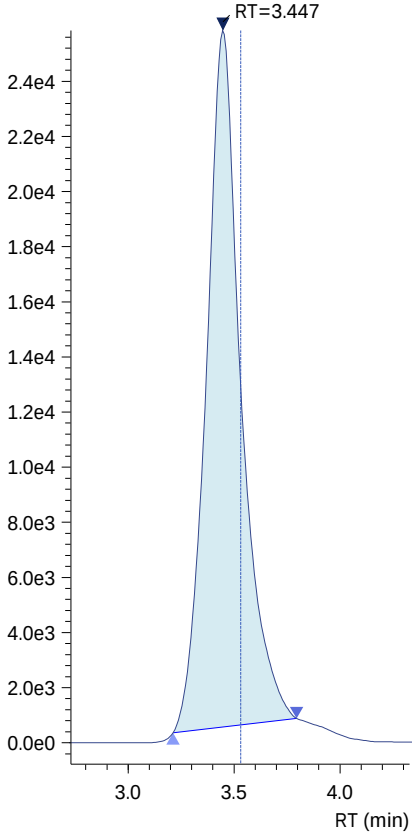
R1 101.00>85.00 (-) A=150915 1.30e4 RT=3.445



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=287960 2.58e4 RT=3.447



Insight Report

Printed at 6/10/2024 9:43:43 AM

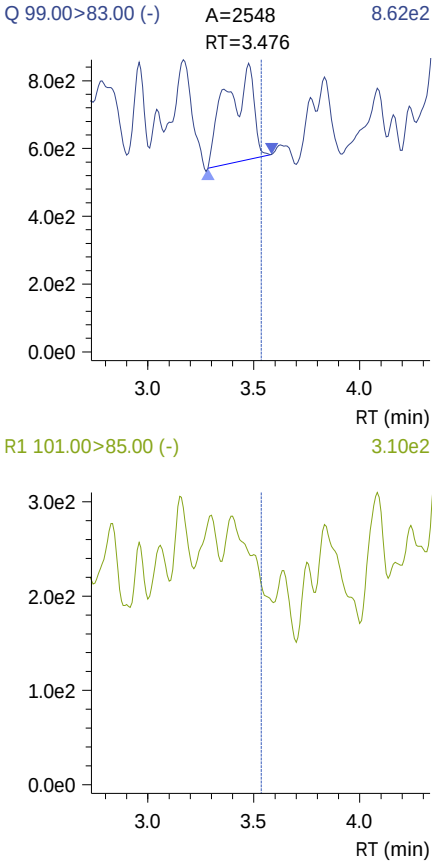
IB

Sample ID: IB
Date Acquired: 6/7/2024 4:25:38 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240607\20240607-042.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	NI	----	----	301764	----	ng/mL	101.00 >85.00	0.00	23.50 -43.64
Sodium Perchlorate -18O4_IS	Auto	3.446	301764	301764	1.0000	ng/mL	----	----	

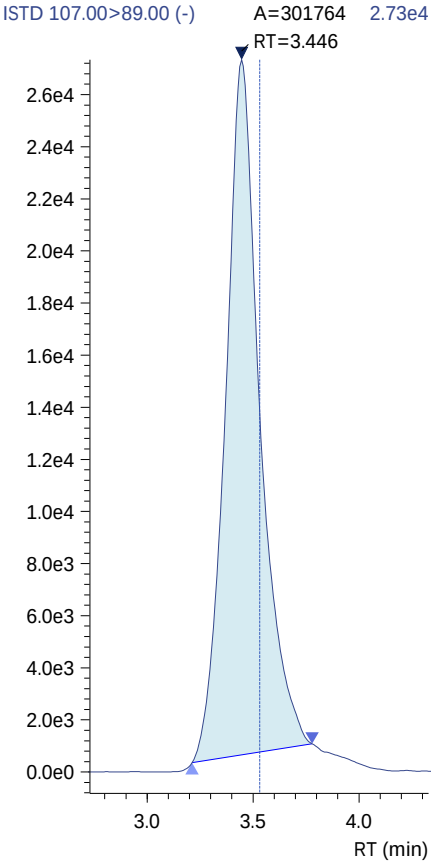
Perchlorate

Conc ----
R#1 0.00 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/10/2024 9:43:43 AM

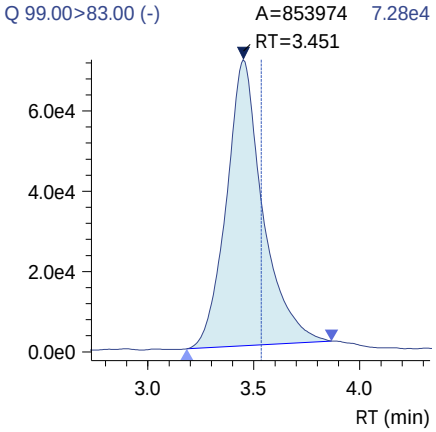
E2400588-002 10x

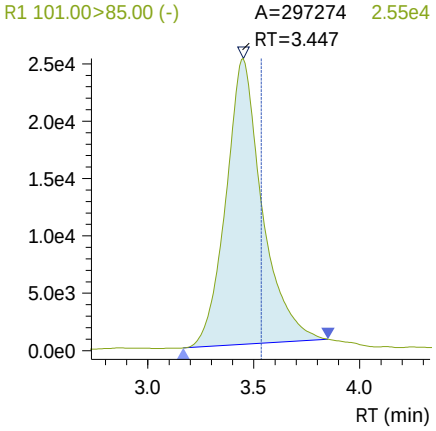
Sample ID: E2400588-002 10x
Date Acquired: 6/7/2024 4:31:13 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240607\20240607-043.lcd
Vial: 25 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.451	853974	307352	20.9761	ng/mL	101.00 >85.00	34.81	23.50 -43.64
Sodium Perchlorate -18O4_IS	Auto	3.449	307352	307352	1.0000	ng/mL	----	----	

Perchlorate

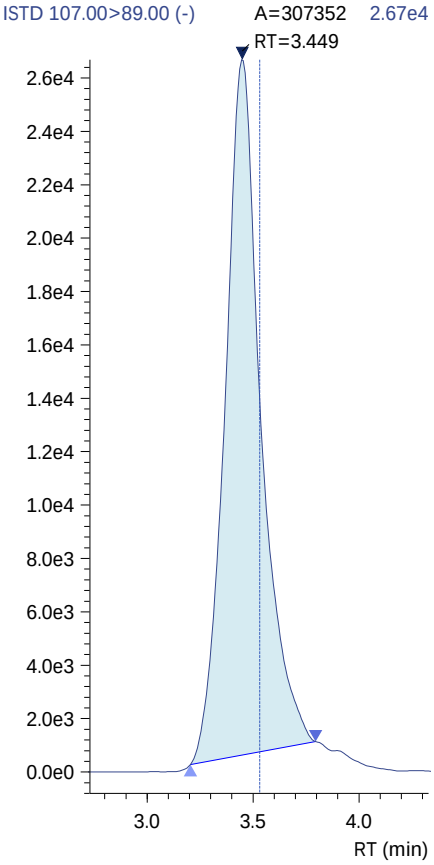
Conc 20.9761
R#1 34.81 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/10/2024 9:43:43 AM

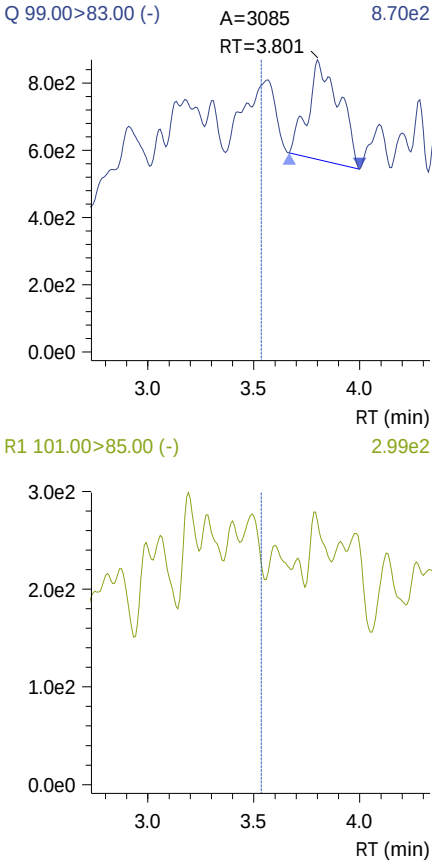
E2400588-003 10x

Sample ID: E2400588-003 10x
Date Acquired: 6/7/2024 4:36:43 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240607\20240607-044.lcd
Vial: 26 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	NI	----	----	345629	----	ng/mL	101.00 >85.00	0.00	23.50 -43.64
Sodium Perchlorate -18O4_IS	Auto	3.451	345629	345629	1.0000	ng/mL	----	----	

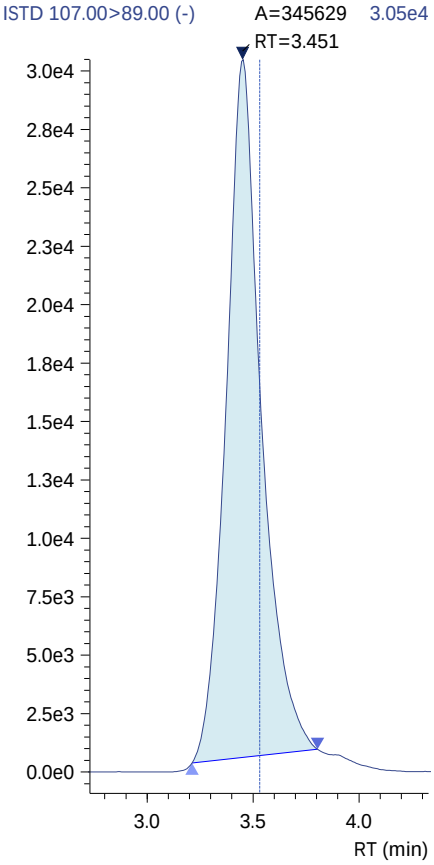
Perchlorate

Conc ----
R#1 0.00 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/10/2024 9:43:43 AM

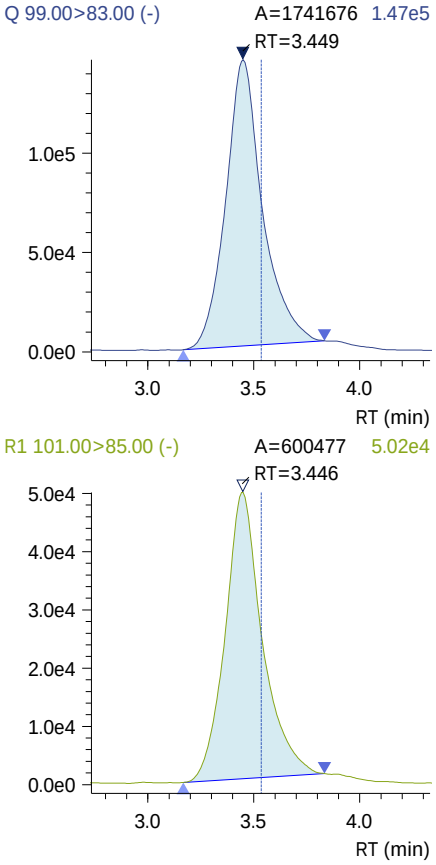
E2400588-004 10000x

Sample ID: E2400588-004 10000x
Date Acquired: 6/7/2024 4:42:19 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240607\20240607-045.lcd
Vial: 27 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.449	17416	296573	44.3	ng/mL	101.00	34.48	23.50
			76		356		>85.00		-43.64
Sodium Perchlorate -18O4_IS	Auto	3.444	296573	296573	1.0000	ng/mL	----	----	

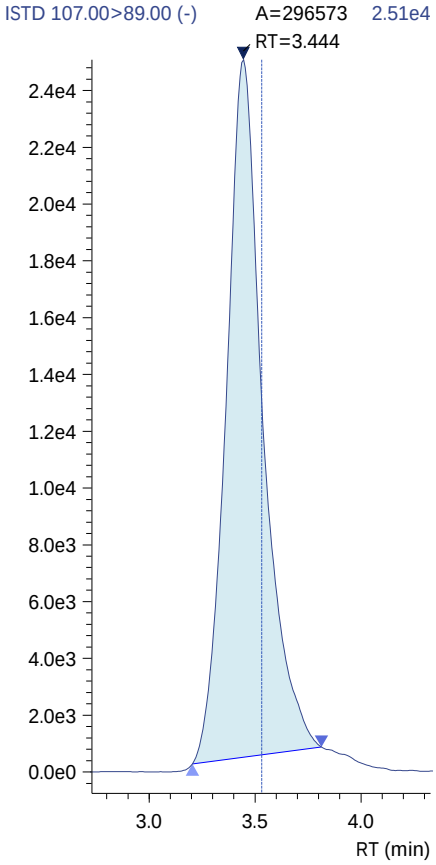
Perchlorate

Conc 44.3356
R#1 34.48 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/10/2024 9:43:43 AM

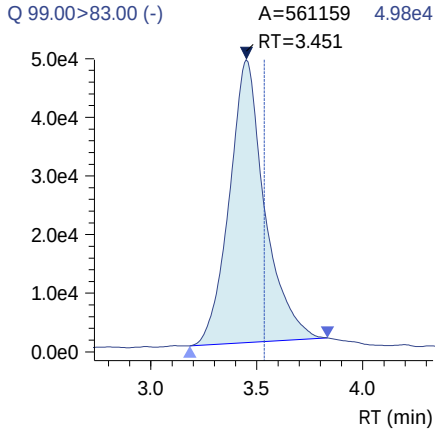
E2400588-005 10000x

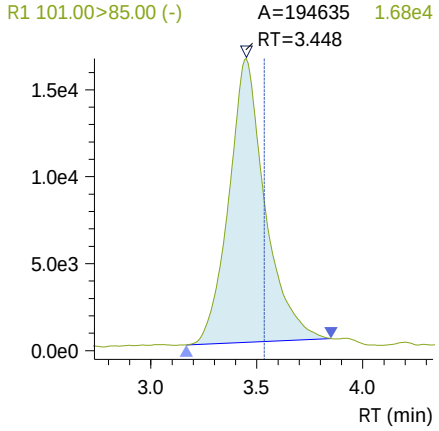
Sample ID: E2400588-005 10000x
Date Acquired: 6/7/2024 4:47:57 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240607\20240607-046.lcd
Vial: 28 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.451	561159	304222	13.9	ng/mL	101.00	34.68	23.50
					255		>85.00		-43.64
Sodium Perchlorate -18O4_IS	Auto	3.446	304222	304222	1.0000	ng/mL	----	----	

Perchlorate

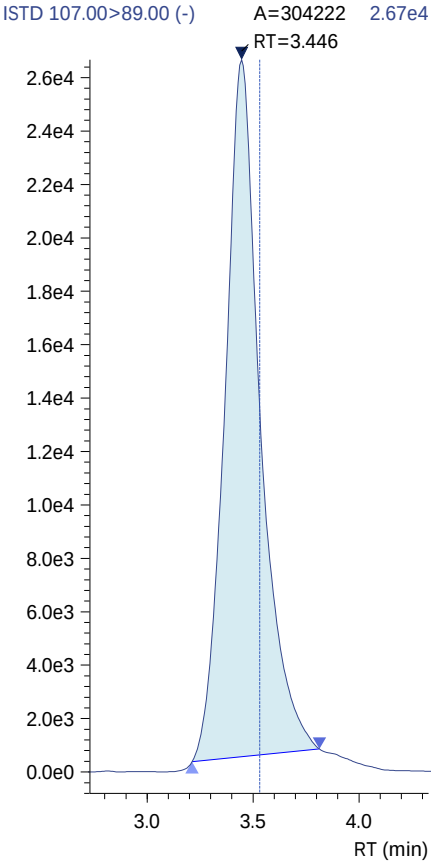
Conc 13.9255
R#1 34.68 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/10/2024 9:43:43 AM

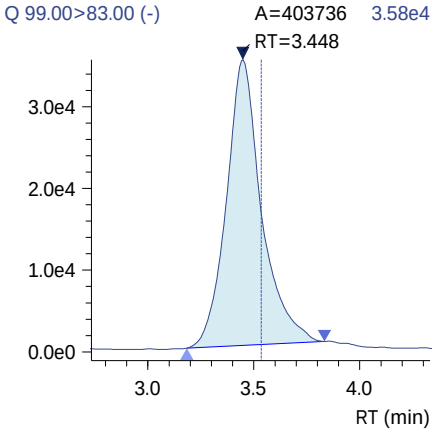
CCV

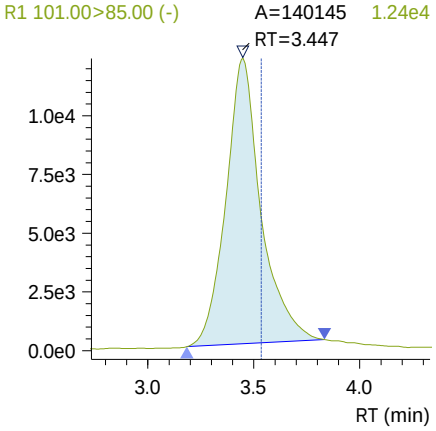
Sample ID: CCV
Date Acquired: 6/7/2024 5:15:38 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240607\20240607-051.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.448	403736	294125	10.3	ng/mL	101.00	34.71	23.50
					629		>85.00		-43.64
Sodium Perchlorate -18O4_IS	M	3.445	294125	294125	1.0000	ng/mL	----	----	

Perchlorate

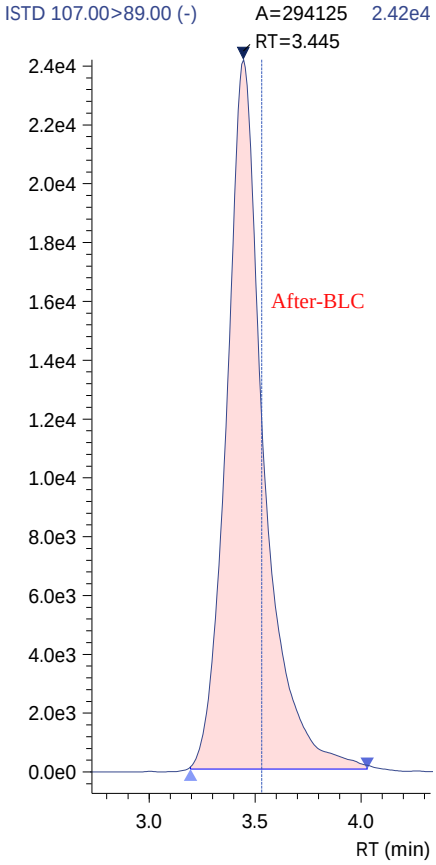
Conc 10.3629
R#1 34.71 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/10/2024 9:44:33 AM

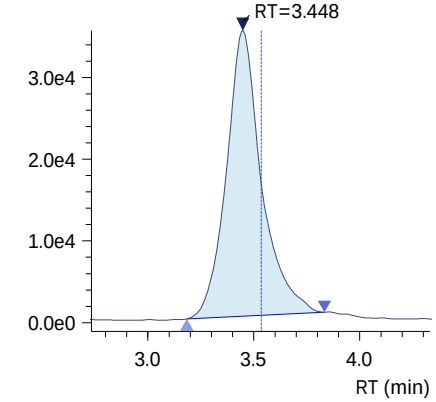
CCV

Sample ID: CCV
Date Acquired: 6/7/2024 5:15:38 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240607\20240607-051.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

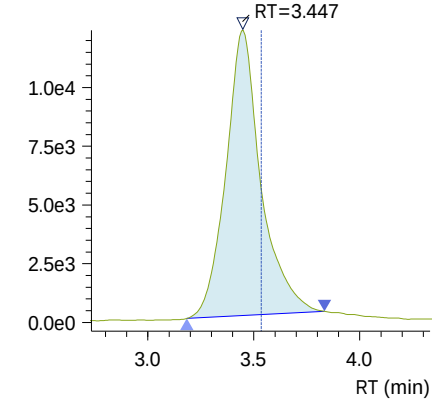
Perchlorate

Conc 11.1699
R#1 34.71 (34.10)

Q 99.00>83.00 (-) A=403736 3.58e4
RT=3.448



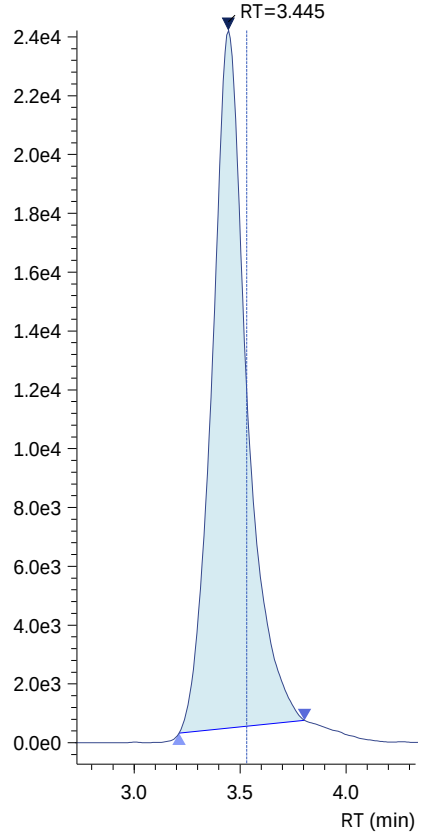
R1 101.00>85.00 (-) A=140145 1.24e4
RT=3.447



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=272876 2.42e4
RT=3.445



Insight Report

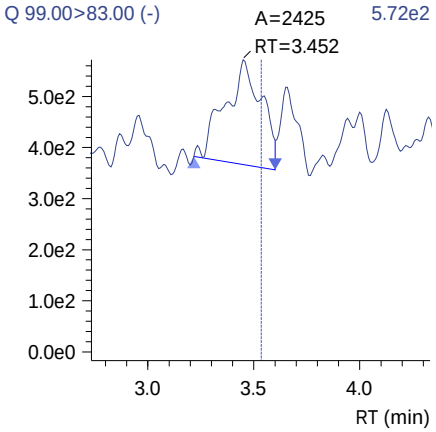
IB

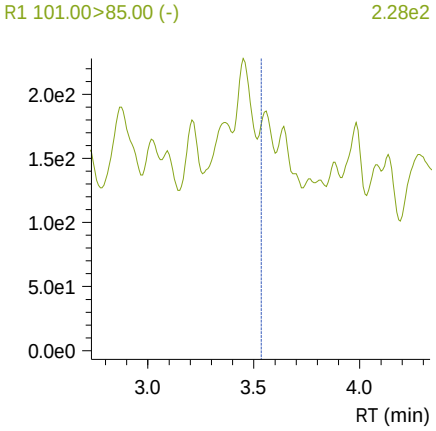
Sample ID: IB
Date Acquired: 6/7/2024 5:21:11 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240607\20240607-052.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	NI	----	----	292534	----	ng/mL	101.00 >85.00	0.00	23.50 -43.64
Sodium Perchlorate -18O4_IS	Auto	3.447	292534	292534	1.0000	ng/mL	----	----	

Perchlorate

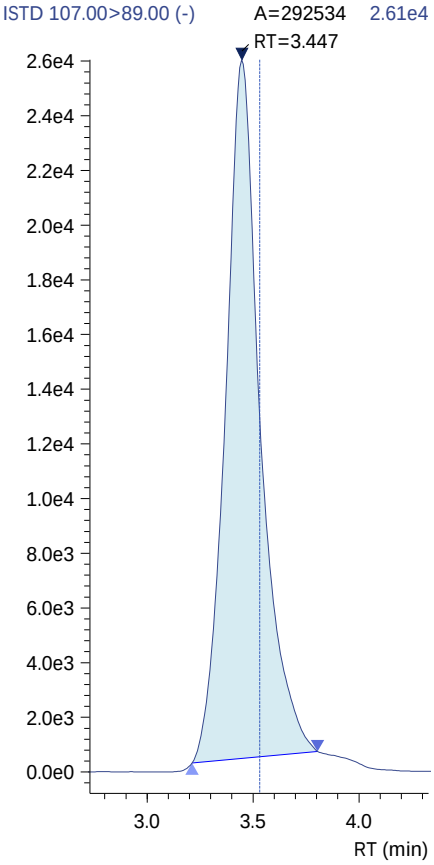
Conc ----
R#1 0.00 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/10/2024 1:44:32 PM

Method File: I:\LCMS01\DATA\20240610\20240610.lcm
Project File: I:\LCMS01\DATA\20240610\20240610.damlp

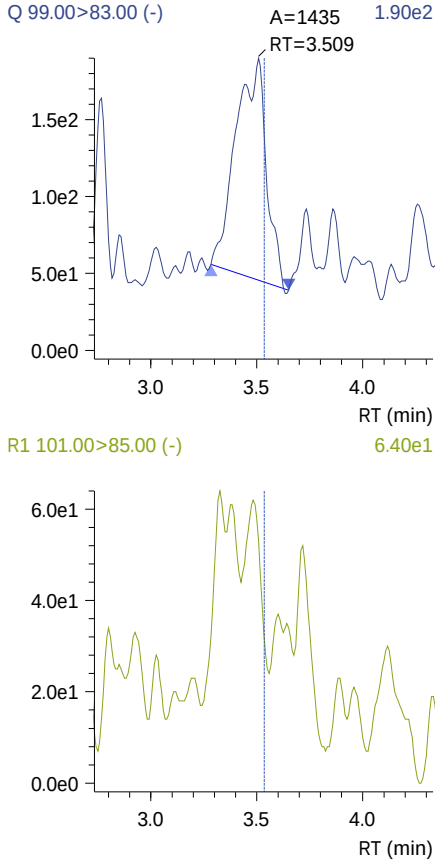
IB

Sample ID: IB
Date Acquired: 6/10/2024 12:01:17 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240610\20240610-003.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	NI	----	----	264631	----	ng/mL	101.00 >85.00	0.00	23.50 -43.64
Sodium Perchlorate-18O4_IS	M	3.452	264631	264631	1.0000	ng/mL	----	----	

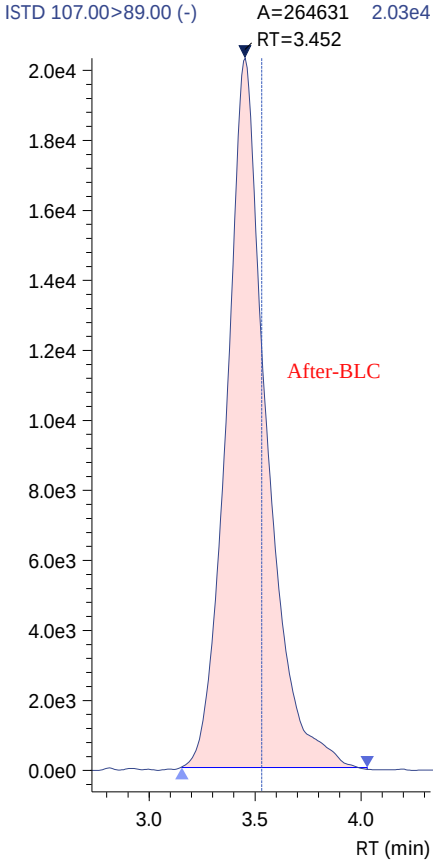
Perchlorate

Conc ----
R#1 0.00 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Method File: I:\LCMS01\DATA\20240610\20240610.lcm
Project File: I:\LCMS01\DATA\20240610\20240610.damlp

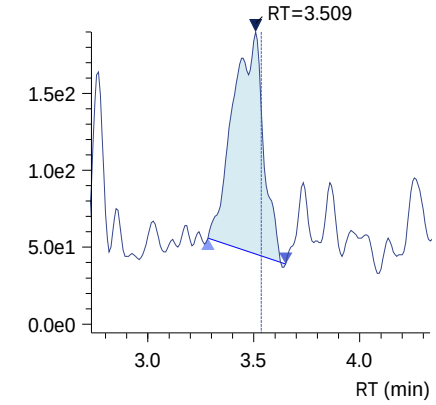
IB

Sample ID: IB
Date Acquired: 6/10/2024 12:01:17 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240610\20240610-003.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

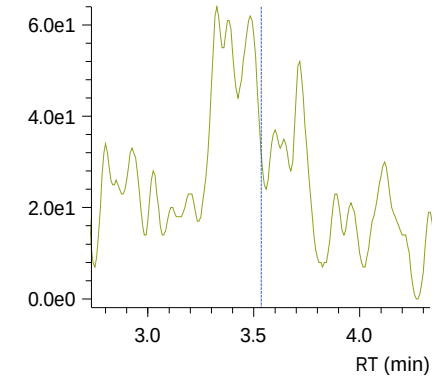
Perchlorate

Conc 0.0453
R#1 0.00 (34.10)

Q 99.00>83.00 (-) A=1435 1.90e2



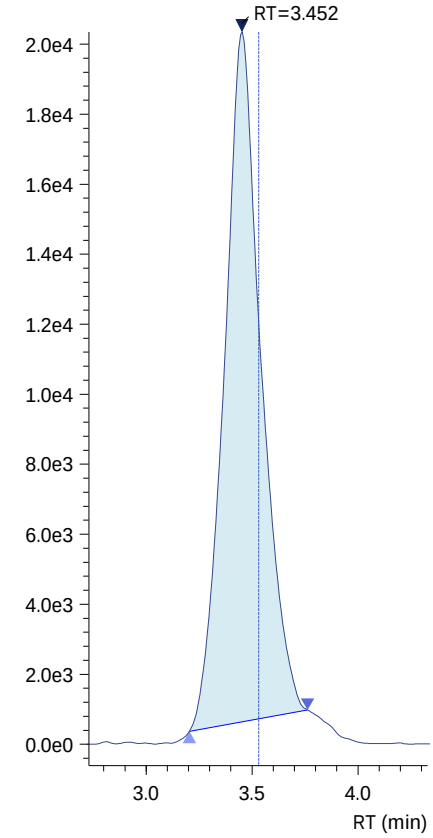
R1 101.00>85.00 (-) 6.40e1



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=239095 2.03e4



Insight Report

Printed at 6/10/2024 1:44:32 PM

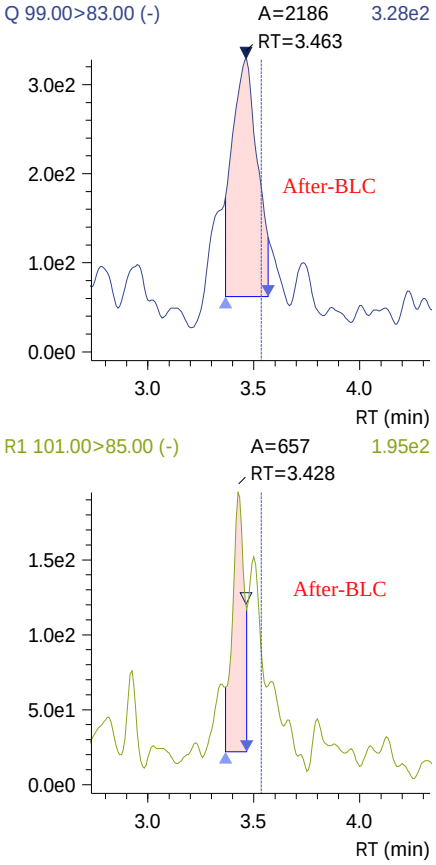
LODV

Sample ID: LODV
Date Acquired: 6/10/2024 12:06:48 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240610\20240610-004.lcd
Vial: 12 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.463	2186	274057	0.0602	ng/mL	101.00 >85.00	30.04	23.50 -43.64
Sodium Perchlorate-18O4_IS	M	3.451	2740 57	274057	1.0000	ng/mL	----	----	

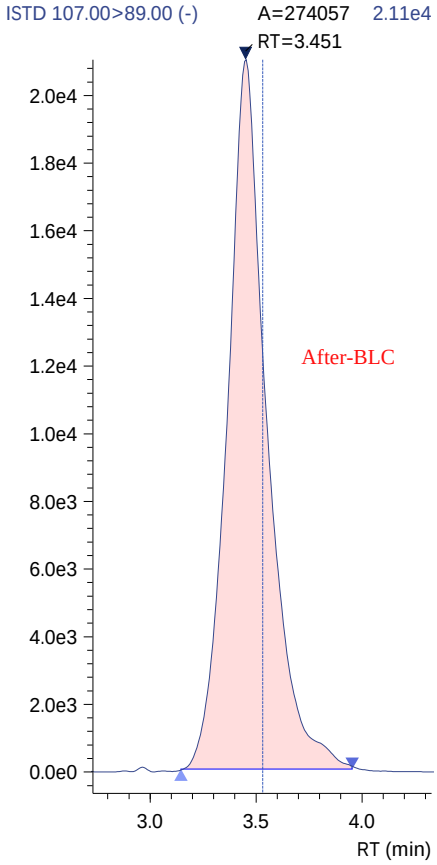
Perchlorate

Conc 0.0602
R#1 30.04 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/10/2024 1:45:25 PM

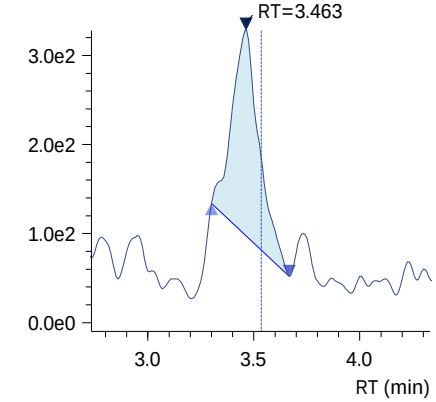
LODV

Sample ID: LODV
Date Acquired: 6/10/2024 12:06:48 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240610\20240610-004.lcd
Vial: 12 | Inj. Volume: 10.0000uL | Tray: 1

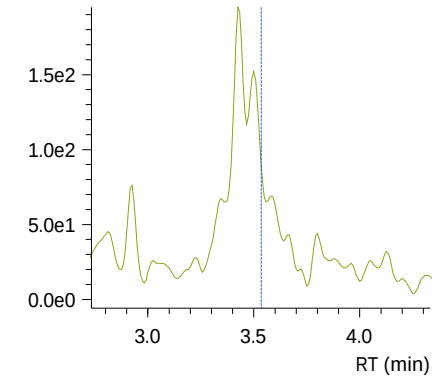
Perchlorate

Conc 0.0621
R#1 0.00 (34.10)

Q 99.00>83.00 (-) A=2040 3.28e2



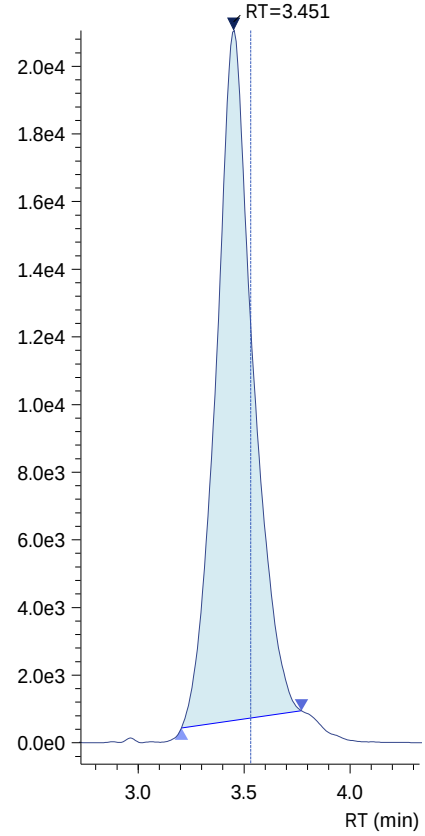
R1 101.00>85.00 (-) 1.95e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=248179 2.11e4



Insight Report

Printed at 6/10/2024 1:44:32 PM

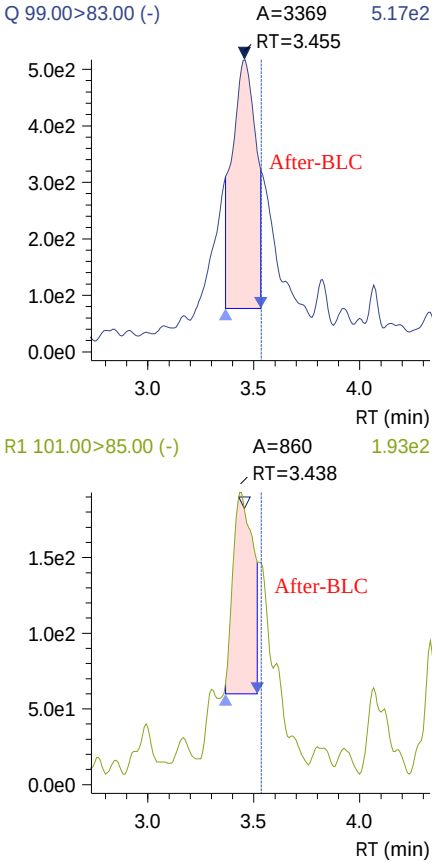
ICS

Sample ID: ICS
Date Acquired: 6/10/2024 12:12:19 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240610\20240610-005.lcd
Vial: 15 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.455	3369	239047	0.1064	ng/mL	101.00 >85.00	25.53	23.50 -43.64
Sodium Perchlorate-18O4_IS	Auto	3.449	2390 47	239047	1.0000	ng/mL	----	----	

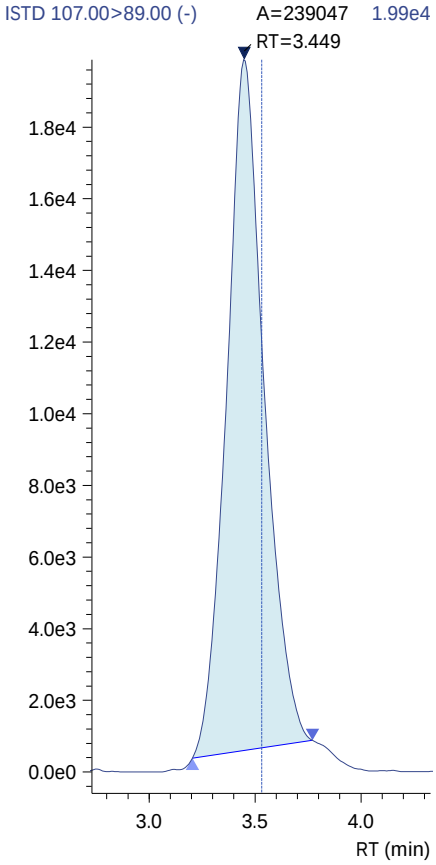
Perchlorate

Conc 0.1064
R#1 25.53 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/10/2024 1:45:25 PM

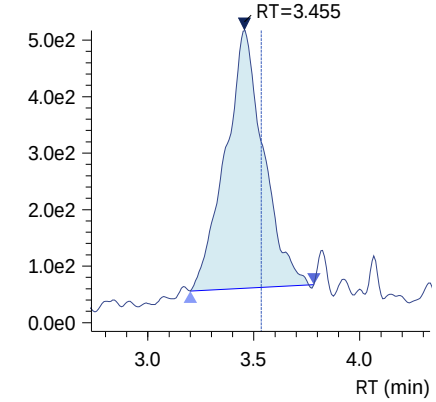
ICS

Sample ID: ICS
Date Acquired: 6/10/2024 12:12:19 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240610\20240610-005.lcd
Vial: 15 | Inj. Volume: 10.0000uL | Tray: 1

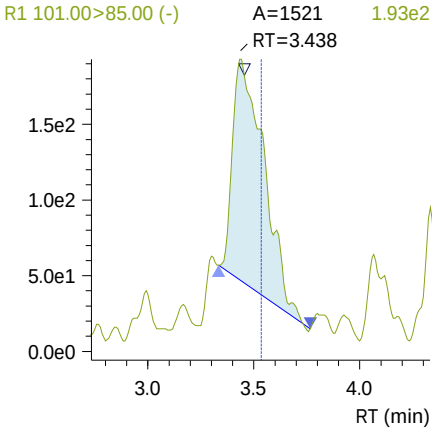
Perchlorate

Conc 0.1812
R#1 26.52 (34.10)

Q 99.00>83.00 (-) A=5736 5.17e2



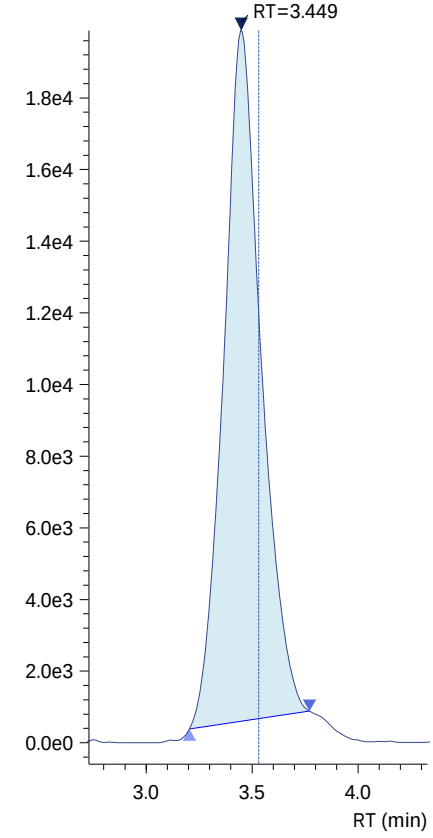
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Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=239047 1.99e4



Insight Report

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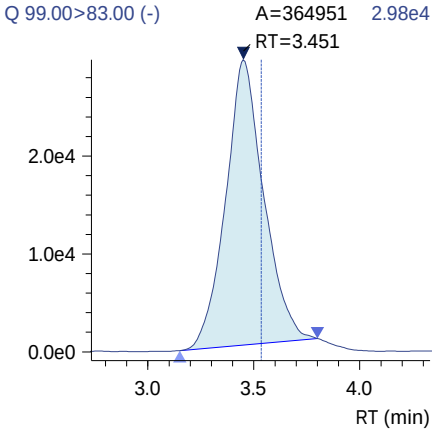
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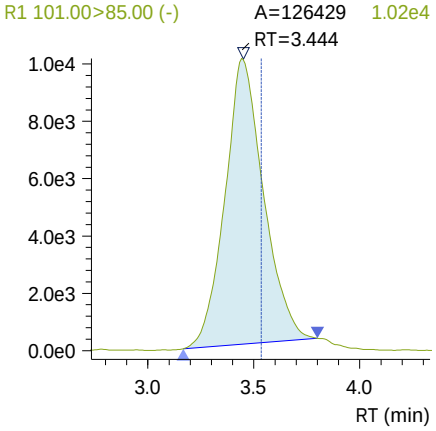
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Acquired by: System Administrator
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Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.451	364951	259873	10.6020	ng/mL	101.00 >85.00	34.64	23.50 -43.64
Sodium Perchlorate-18O4_IS	M	3.448	259873	259873	1.0000	ng/mL	----	----	

Perchlorate

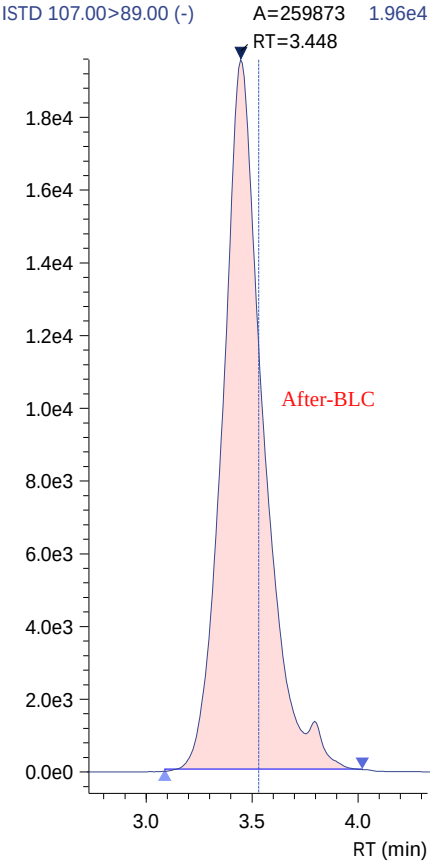
Conc 10.6020
R#1 34.64 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

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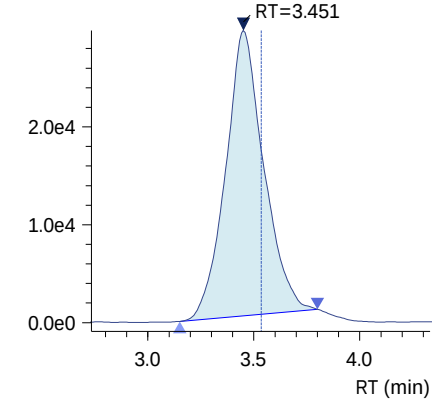
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Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

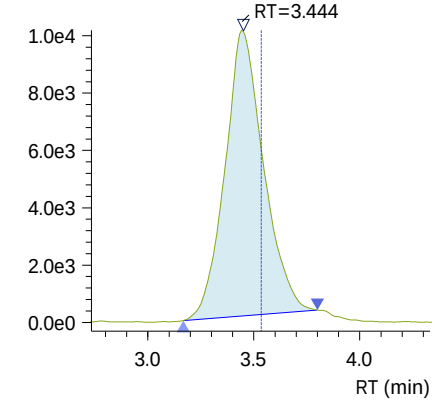
Perchlorate

Conc 11.8495
R#1 34.64 (34.10)

Q 99.00>83.00 (-) A=364951 2.98e4 RT=3.451



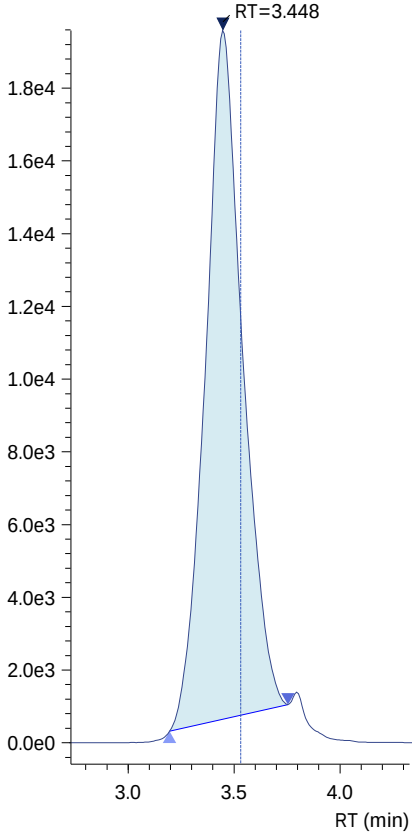
R1 101.00>85.00 (-) A=126429 1.02e4 RT=3.444



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=232514 1.96e4 RT=3.448



Insight Report

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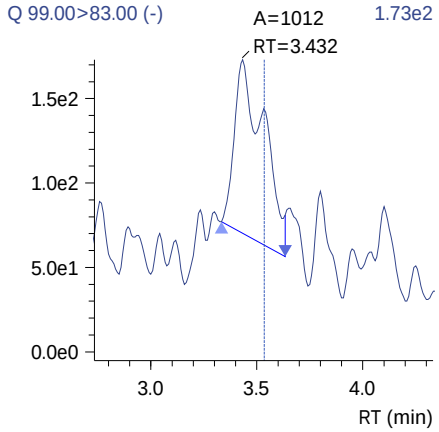
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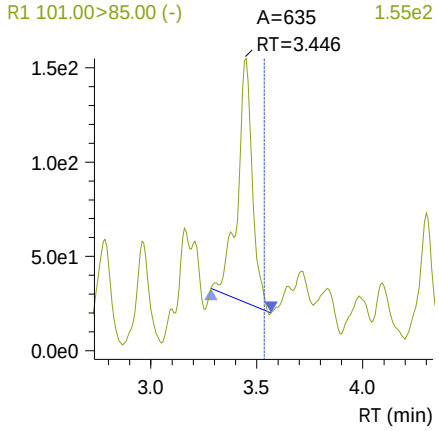
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Acquired by: System Administrator
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Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	NI	----	----	281681	----	ng/mL	101.00 >85.00	62.74	23.50 -43.64
Sodium Perchlorate-18O4_IS	M	3.452	281681	281681	1.0000	ng/mL	----	----	

Perchlorate

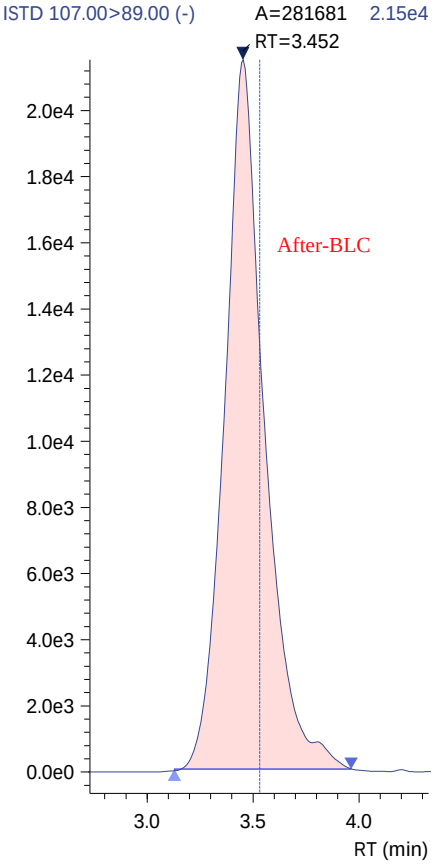
Conc ----
R#1 62.74 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

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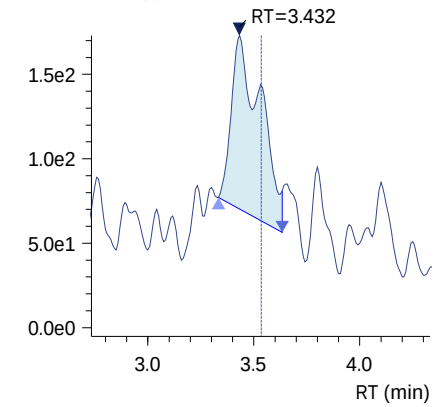
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Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

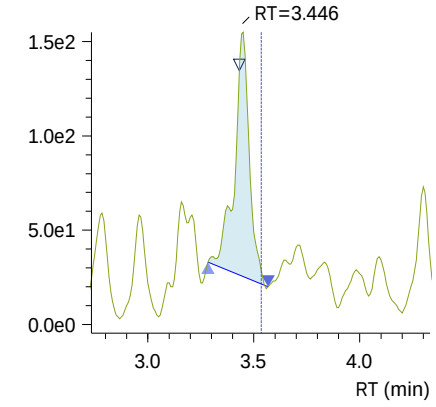
Perchlorate

Conc 0.0296
R#1 62.74 (34.10)

Q 99.00>83.00 (-) A=1012 1.73e2



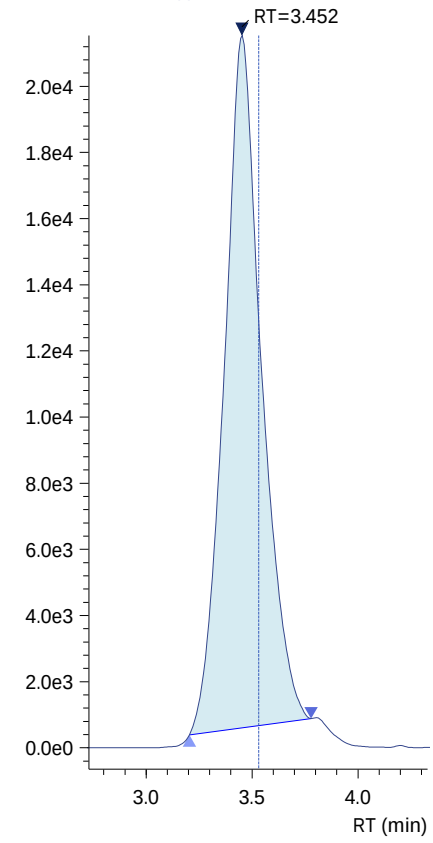
R1 101.00>85.00 (-) A=635 1.55e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=257671 2.15e4



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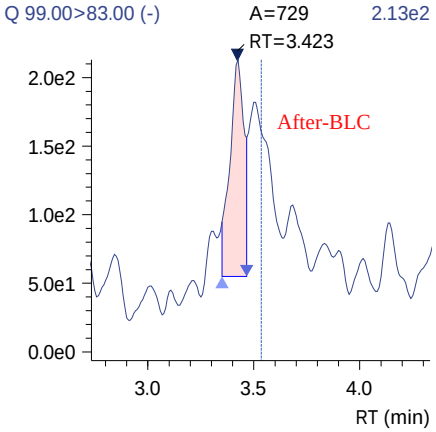
EQ2400278-004 10x

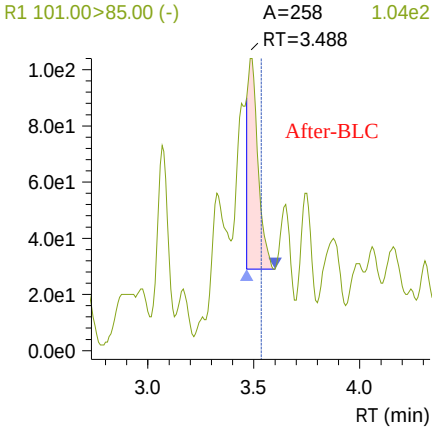
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Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240610\20240610-008.lcd
Vial: 22 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.423	729	357387	0.0154	ng/mL	101.00 >85.00	35.37	23.50 -43.64
Sodium Perchlorate-18O4_IS	M	3.458	3573 87	357387	1.0000	ng/mL	----	----	

Perchlorate

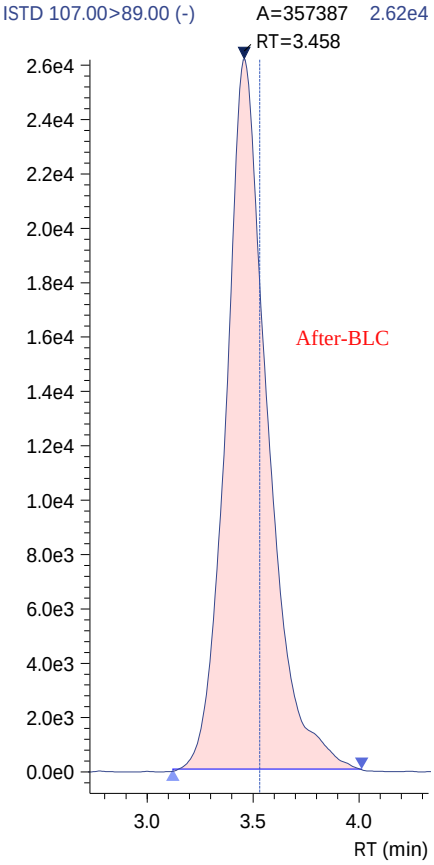
Conc 0.0154
R#1 35.37 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

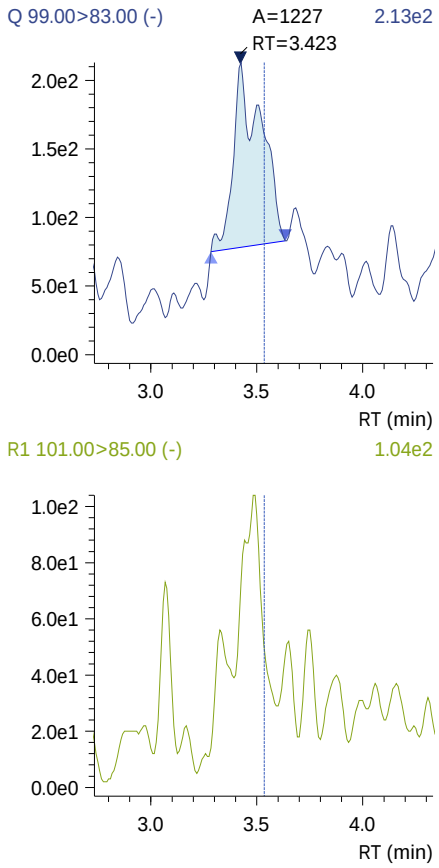
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EQ2400278-004 10x

Sample ID: EQ2400278-004 10x
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Vial: 22 | Inj. Volume: 10.0000uL | Tray: 1

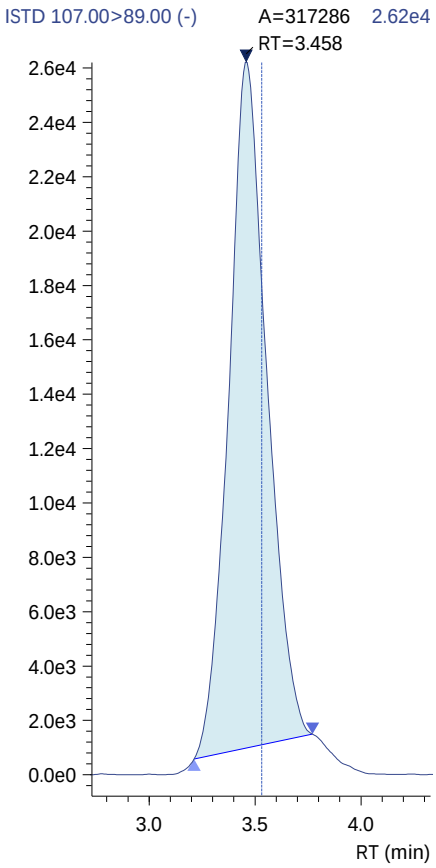
Perchlorate

Conc 0.0292
R#1 0.00 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

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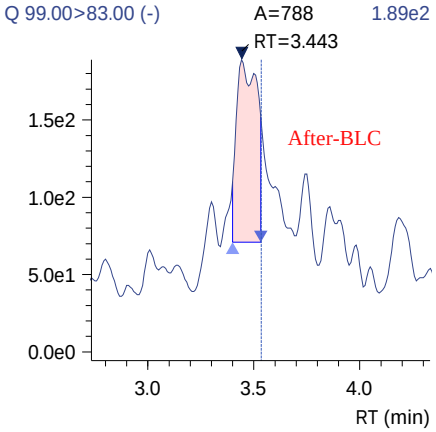
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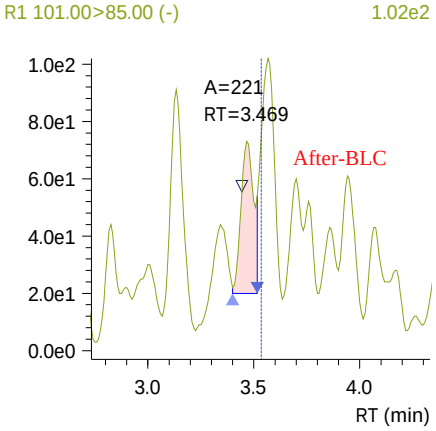
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Date Acquired: 6/10/2024 12:34:29 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240610\20240610-009.lcd
Vial: 23 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.443	788	355897	0.0167	ng/mL	101.00 >85.00	28.05	23.50 -43.64
Sodium Perchlorate-18O4_IS	M	3.460	355897	355897	1.0000	ng/mL	----	----	

Perchlorate

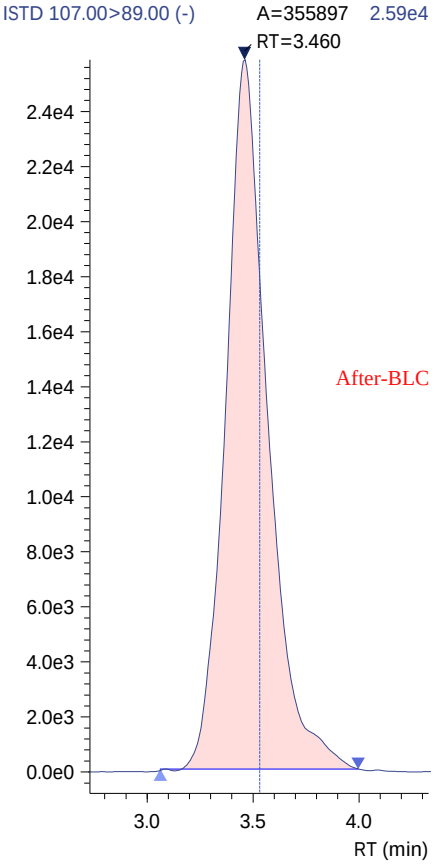
Conc 0.0167
R#1 28.05 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

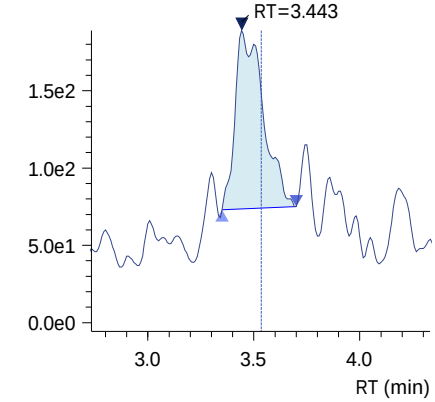
EQ2400278-005 10x

Sample ID: EQ2400278-005 10x
Date Acquired: 6/10/2024 12:34:29 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240610\20240610-009.lcd
Vial: 23 | Inj. Volume: 10.0000uL | Tray: 1

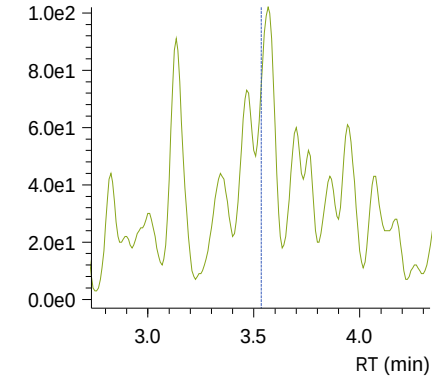
Perchlorate

Conc 0.0255
R#1 0.00 (34.10)

Q 99.00>83.00 (-) A=1071 1.89e2 RT=3.443



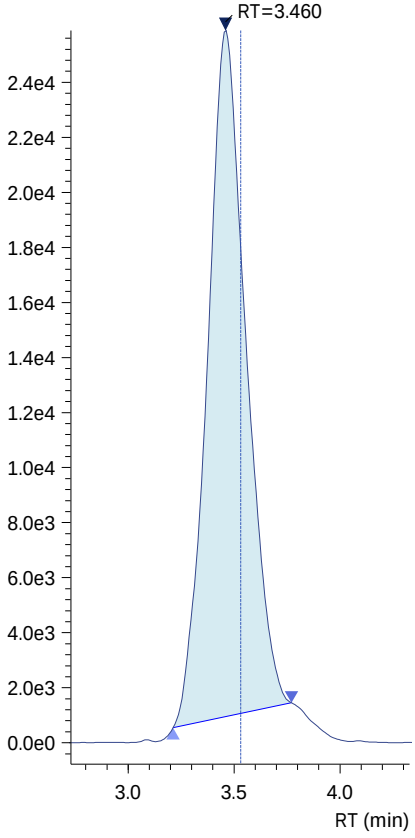
R1 101.00>85.00 (-) 1.02e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=317349 2.59e4 RT=3.460



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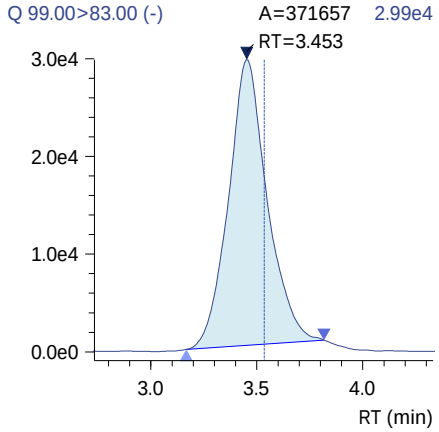
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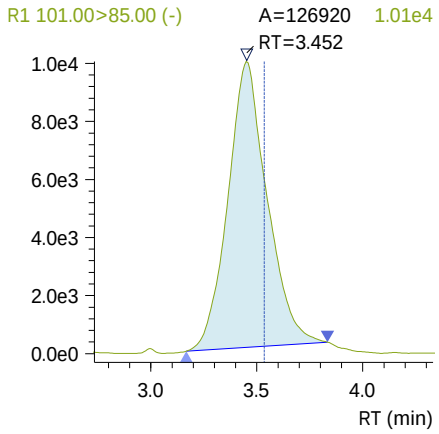
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Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.453	371657	261403	10.7337	ng/mL	101.00 >85.00	34.15	23.50 -43.64
Sodium Perchlorate-18O4_IS	M	3.456	261403	261403	1.0000	ng/mL	----	----	

Perchlorate

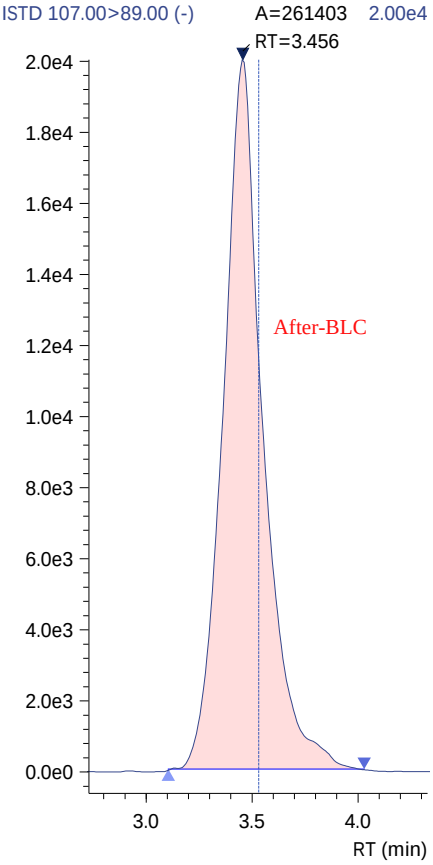
Conc 10.7337
R#1 34.15 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



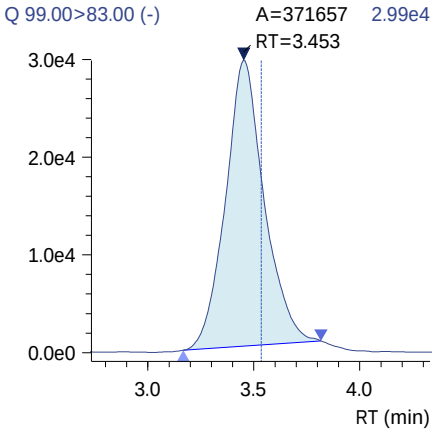
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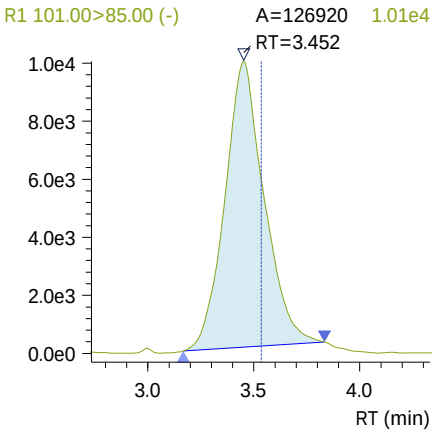
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Sample ID: CCV
Date Acquired: 6/10/2024 12:45:37 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240610\20240610-011.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

Perchlorate

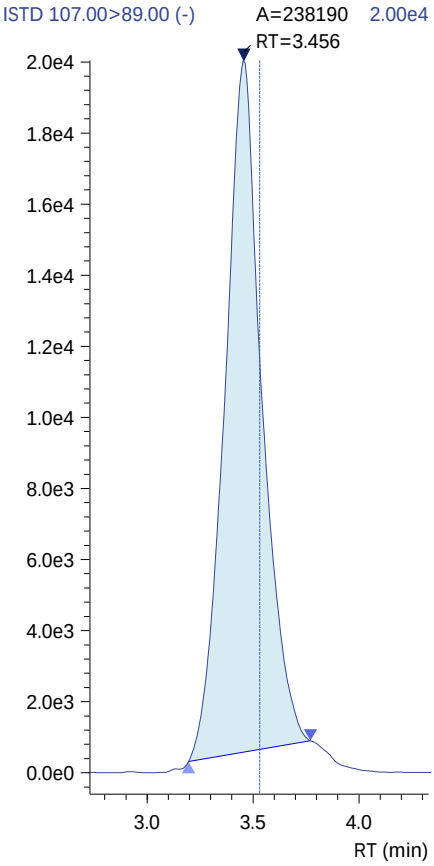
Conc 11.7797
R#1 34.15 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

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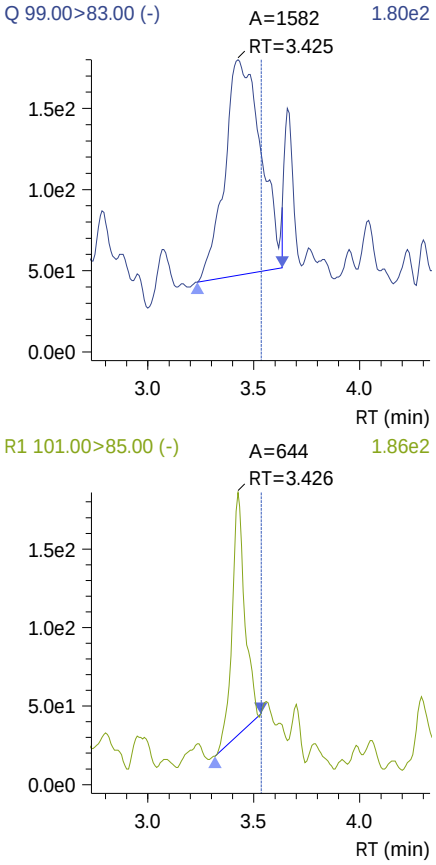
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Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	NI	----	----	251045	----	ng/mL	101.00 >85.00	40.68	23.50 -43.64
Sodium Perchlorate-18O4_IS	Auto	3.449	251045	251045	1.0000	ng/mL	----	----	

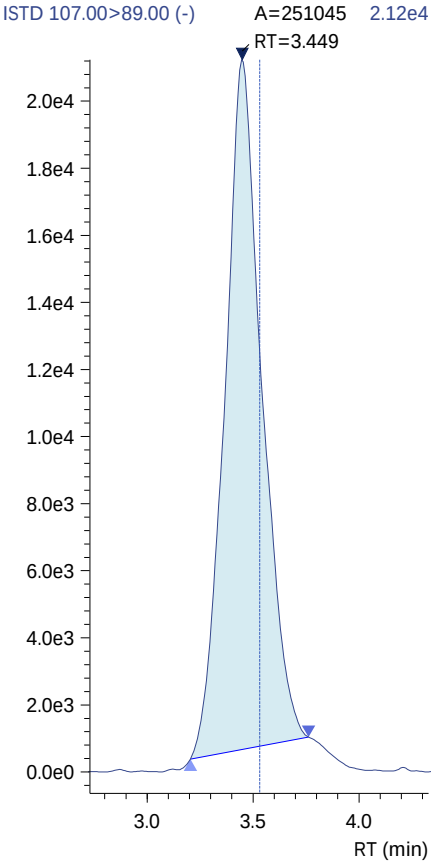
Perchlorate

Conc ----
R#1 40.68 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



HS24051490 Eurofin Lab Level IV Data Package Report J173670-1 Std_Tal_L4 Final Report

ALS WO# HS24051490

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 06/05/2024

JOB DESCRIPTION

HS24051490

JOB NUMBER

410-173670-1

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

See page two for job notes and contact information.

myEOL

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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



Generated
06/05/2024

Authorized for release by
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Designee for
Dana Kauffman, Project Manager
Dana.Kauffman@et.eurofinsus.com
717 556-7219

Eurofins Lancaster Laboratories Environment Testing, LLC

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· 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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Table of Contents

Cover Page 1
Data Summaries 5
Definitions 5
Case Narrative 6
Detection Summary 7
Client Sample Results 8
Default Detection Limits 9
QC Sample Results 10
QC Association 11
Chronicle 12
Certification Summary 13
Method Summary 14
Sample Summary 15
Manual Integration Summary 16
Reagent Traceability 18
Organic Sample Data 19
GC VOA 19
Method RSK-175 CO2 DOD 19
Method RSK-175 CO2 DOD QC Summary 20
Method RSK-175 CO2 DOD Sample Data 23
Standards Data 37
Method RSK-175 CO2 DOD ICAL Data 37
Method RSK-175 CO2 DOD CCAL Data 54
Raw QC Data 66
Method RSK-175 CO2 DOD Blank Data 66
Method RSK-175 CO2 DOD LCS/LCSD Data 70
Method RSK-175 CO2 DOD Run Logs 76
Method RSK-175 CO2 DOD Prep Data 78
Shipping and Receiving Documents 80
Client Chain of Custody 81
Sample Receipt Checklist 83

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
410-173670-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- 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 may be 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.

Receipt
The samples were received on 5/29/2024 10:30 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 4.6°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: HS24051490

Job ID: 410-173670-1

Client Sample ID: 50WW12_052224 — Lab Sample ID: 410-173670-1

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Carbon dioxide	300000	M	12000	11000	5600	ug/L	1		RSK-175	Total/NA

Client Sample ID: 50WW12_052224_a — Lab Sample ID: 410-173670-2

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Carbon dioxide	320000	M	12000	11000	5600	ug/L	1		RSK-175	Total/NA

Client Sample ID: 50WW06_052224 — Lab Sample ID: 410-173670-3

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Carbon dioxide	160000		12000	11000	5600	ug/L	1		RSK-175	Total/NA

Client Sample ID: 50WW06_052224_a — Lab Sample ID: 410-173670-4

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Carbon dioxide	170000		12000	11000	5600	ug/L	1		RSK-175	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: 50WW12_052224
Lab Sample ID: 410-173670-1

Date Collected: 05/22/24 09:25
Matrix: Water
Date Received: 05/29/24 10:30

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Carbon dioxide	300000	M	12000	11000	5600	ug/L		05/31/24 11:29	1

Client Sample ID: 50WW12_052224_a
Lab Sample ID: 410-173670-2

Date Collected: 05/22/24 09:25
Matrix: Water
Date Received: 05/29/24 10:30

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Carbon dioxide	320000	M	12000	11000	5600	ug/L		05/31/24 11:36	1

Client Sample ID: 50WW06_052224
Lab Sample ID: 410-173670-3

Date Collected: 05/22/24 10:20
Matrix: Water
Date Received: 05/29/24 10:30

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Carbon dioxide	160000		12000	11000	5600	ug/L		05/31/24 11:44	1

Client Sample ID: 50WW06_052224_a
Lab Sample ID: 410-173670-4

Date Collected: 05/22/24 10:20
Matrix: Water
Date Received: 05/29/24 10:30

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Carbon dioxide	170000		12000	11000	5600	ug/L		05/31/24 11:52	1

Default Detection Limits

01334745

Client: ALS Group USA, Corp
Job ID: 410-173670-1
Project/Site: HS24051490

Method: RSK-175 - Dissolved Gases (GC)

Prep: RSK-175

Analyte	LOQ	DL	Units
Carbon dioxide	12000	5600	ug/L

Method: RSK-175 - Dissolved Gases (GC)

Lab Sample ID: MB 410-512401/1-A
Matrix: Water
Analysis Batch: 512348

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 512401

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Carbon dioxide	5600	U M	12000	11000	5600	ug/L		05/31/24 10:34	1

Lab Sample ID: LCS 410-512401/2-A
Matrix: Water
Analysis Batch: 512348

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 512401

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Carbon dioxide			35800	38800		ug/L		108	80 - 122		

Lab Sample ID: LCSD 410-512401/3-A
Matrix: Water
Analysis Batch: 512348

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 512401

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Carbon dioxide			35800	39600		ug/L		111	80 - 122	2	20

GC VOA

Analysis Batch: 512348

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-173670-1	50WW12_052224	Total/NA	Water	RSK-175	512401
410-173670-2	50WW12_052224_a	Total/NA	Water	RSK-175	512401
410-173670-3	50WW06_052224	Total/NA	Water	RSK-175	512401
410-173670-4	50WW06_052224_a	Total/NA	Water	RSK-175	512401
MB 410-512401/1-A	Method Blank	Total/NA	Water	RSK-175	512401
LCS 410-512401/2-A	Lab Control Sample	Total/NA	Water	RSK-175	512401
LCSD 410-512401/3-A	Lab Control Sample Dup	Total/NA	Water	RSK-175	512401

Prep Batch: 512401

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-173670-1	50WW12_052224	Total/NA	Water	RSK-175	
410-173670-2	50WW12_052224_a	Total/NA	Water	RSK-175	
410-173670-3	50WW06_052224	Total/NA	Water	RSK-175	
410-173670-4	50WW06_052224_a	Total/NA	Water	RSK-175	
MB 410-512401/1-A	Method Blank	Total/NA	Water	RSK-175	
LCS 410-512401/2-A	Lab Control Sample	Total/NA	Water	RSK-175	
LCSD 410-512401/3-A	Lab Control Sample Dup	Total/NA	Water	RSK-175	

Client Sample ID: 50WW12_052224
Lab Sample ID: 410-173670-1
Date Collected: 05/22/24 09:25
Matrix: Water
Date Received: 05/29/24 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	RSK-175			512401	HQR6	ELLE	05/31/24 10:23
Total/NA	Analysis	RSK-175		1	512348	LXF2	ELLE	05/31/24 11:29

Client Sample ID: 50WW12_052224_a
Lab Sample ID: 410-173670-2
Date Collected: 05/22/24 09:25
Matrix: Water
Date Received: 05/29/24 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	RSK-175			512401	HQR6	ELLE	05/31/24 10:23
Total/NA	Analysis	RSK-175		1	512348	LXF2	ELLE	05/31/24 11:36

Client Sample ID: 50WW06_052224
Lab Sample ID: 410-173670-3
Date Collected: 05/22/24 10:20
Matrix: Water
Date Received: 05/29/24 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	RSK-175			512401	HQR6	ELLE	05/31/24 10:23
Total/NA	Analysis	RSK-175		1	512348	LXF2	ELLE	05/31/24 11:44

Client Sample ID: 50WW06_052224_a
Lab Sample ID: 410-173670-4
Date Collected: 05/22/24 10:20
Matrix: Water
Date Received: 05/29/24 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	RSK-175			512401	HQR6	ELLE	05/31/24 10:23
Total/NA	Analysis	RSK-175		1	512348	LXF2	ELLE	05/31/24 11:52

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: HS24051490

Job ID: 410-173670-1

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	06-03-24

Method Summary

01334750

Client: ALS Group USA, Corp
Job ID: 410-173670-1
Project/Site: HS24051490

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

01334751

Client: ALS Group USA, Corp
Job ID: 410-173670-1
Project/Site: HS24051490

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
410-173670-1	50WW12_052224	Water	05/22/24 09:25	05/29/24 10:30
410-173670-2	50WW12_052224_a	Water	05/22/24 09:25	05/29/24 10:30
410-173670-3	50WW06_052224	Water	05/22/24 10:20	05/29/24 10:30
410-173670-4	50WW06_052224_a	Water	05/22/24 10:20	05/29/24 10:30

GC VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-173670-1

SDG No.:

Instrument ID: 19506-B Analysis Batch Number: 499750

Lab Sample ID: IC 410-499750/13 Client Sample ID:

Date Analyzed: 04/29/24 16:37 Lab File ID: 312024_4_29BB.0013.d GC Column: 19809 ID: 1(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Carbon dioxide	1.98	Baseline Smoothing	LXF2	04/30/24 04:03

GC VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-173670-1

SDG No.:

Instrument ID: 19506-B Analysis Batch Number: 512348

Lab Sample ID: MB 410-512401/1-A Client Sample ID:

Date Analyzed: 05/31/24 10:34 Lab File ID: 312024_5_31BB.0005.d GC Column: 19809 ID: 1(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Carbon dioxide	2.07	Peak not integrated	LXF2	06/03/24 03:49

Lab Sample ID: 410-173670-1 Client Sample ID: 50WW12_052224

Date Analyzed: 05/31/24 11:29 Lab File ID: 312024_5_31BB.0011.d GC Column: 19809 ID: 1(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Carbon dioxide	1.98	Baseline Smoothing	LXF2	06/03/24 03:50

Lab Sample ID: 410-173670-2 Client Sample ID: 50WW12_052224_a

Date Analyzed: 05/31/24 11:36 Lab File ID: 312024_5_31BB.0012.d GC Column: 19809 ID: 1(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Carbon dioxide	1.98	Baseline Smoothing	LXF2	06/03/24 03:50

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-173670-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
EPH_CO2ICV_00003	04/01/25	04/01/24	DI Water, Lot In House	1 mL	EPH_CO2XX_00003	0.0018 g	Carbon dioxide	547000 ppb
.EPH_CO2XX_00003	04/01/25	Air Products, Lot A214157			(Purchased Reagent)		Carbon dioxide	30.3889 %
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.: 410-173670-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 312024_5_31BB.0006.d

Lab ID: LCS 410-512401/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Carbon dioxide	35800	38800	108	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.: 410-173670-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 312024_5_31BB.0007.d

Lab ID: LCSD 410-512401/3-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Carbon dioxide	35800	39600	111	2	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.: 410-173670-1

SDG No.:

Lab File ID: 312024_5_31BB.0005.d Lab Sample ID: MB 410-512401/1-A

Matrix: Water Heated Purge:(Y/N) N

Instrument ID: 19506-B Date Analyzed: 05/31/2024 10:34

GC Column: 19809 ID: 1(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 410-512401/2-A	312024_5_31 BB.0006.d	05/31/2024 10:42
	LCSD 410-512401/3-A	312024_5_31 BB.0007.d	05/31/2024 10:50
50WW12_052224	410-173670-1	312024_5_31 BB.0011.d	05/31/2024 11:29
50WW12_052224_a	410-173670-2	312024_5_31 BB.0012.d	05/31/2024 11:36
50WW06_052224	410-173670-3	312024_5_31 BB.0013.d	05/31/2024 11:44
50WW06_052224_a	410-173670-4	312024_5_31 BB.0014.d	05/31/2024 11:52

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-173670-1

SDG No.:

Client Sample ID: 50WW12_052224 Lab Sample ID: 410-173670-1

Matrix: Water Lab File ID: 312024_5_31BB.0011.d

Analysis Method: RSK-175 Date Collected: 05/22/2024 09:25

Sample wt/vol: 5(mL) Date Analyzed: 05/31/2024 11:29

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: 19809 ID: 1(mm)

Purge Volume: Heated Purge: (Y/N) N pH: 6.0

% Moisture: % Solids: Level: (low/med) Low

Analysis Batch No.: 512348 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
124-38-9	Carbon dioxide	300000	M	12000	11000	5600

Eurofins Lancaster Laboratories Environment Testing, LLC

Target Compound Quantitation Report

Data File:	\\chromfs\Lancaster\ChromData\19506-B\20240531-115448.b\312024_5_31BB.0011.d				
Lims ID:	410-173670-A-1-A				
Client ID:	50WW12_052224				
Sample Type:	Client				
Inject. Date:	31-May-2024 11:29:00	ALS Bottle#:	0	Worklist Smp#:	11
Purge Vol:	1.000 mL	Dil. Factor:	1.0000		
Sample Info:					
Misc. Info.:	410-0115448-011				
Operator ID:		Instrument ID:	19506-B		
Method:	\\chromfs\Lancaster\ChromData\19506-B\20240531-115448.b\RSK_CO2_19506B.m				
Limit Group:	GCV - RSK175 CO2				
Last Update:	03-Jun-2024 03:50:47	Calib Date:	29-Apr-2024 16:37:00		
Integrator:	Genie				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\19506-B\20240429-112494.b\312024_4_29BB.0013.d				
Column 1 :	ShinCarbon ST Microplacked GC (1.00 mm)		Det: 0FIDA		
Process Host:	CTX1634				
First Level Reviewer: LXF2		Date:	03-Jun-2024 03:50:23		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/l	Flags
1 Carbon dioxide	1.983	2.051	-0.068	954235856H	304100	Ma

QC Flag Legend

Processing Flags

H - Response Measured by Height

Review Flags

M - Manually Integrated

a - User Assigned ID

Report Date: 03-Jun-2024 03:50:50 Chrom Revision: 2.3 20-May-2024 22:00:34

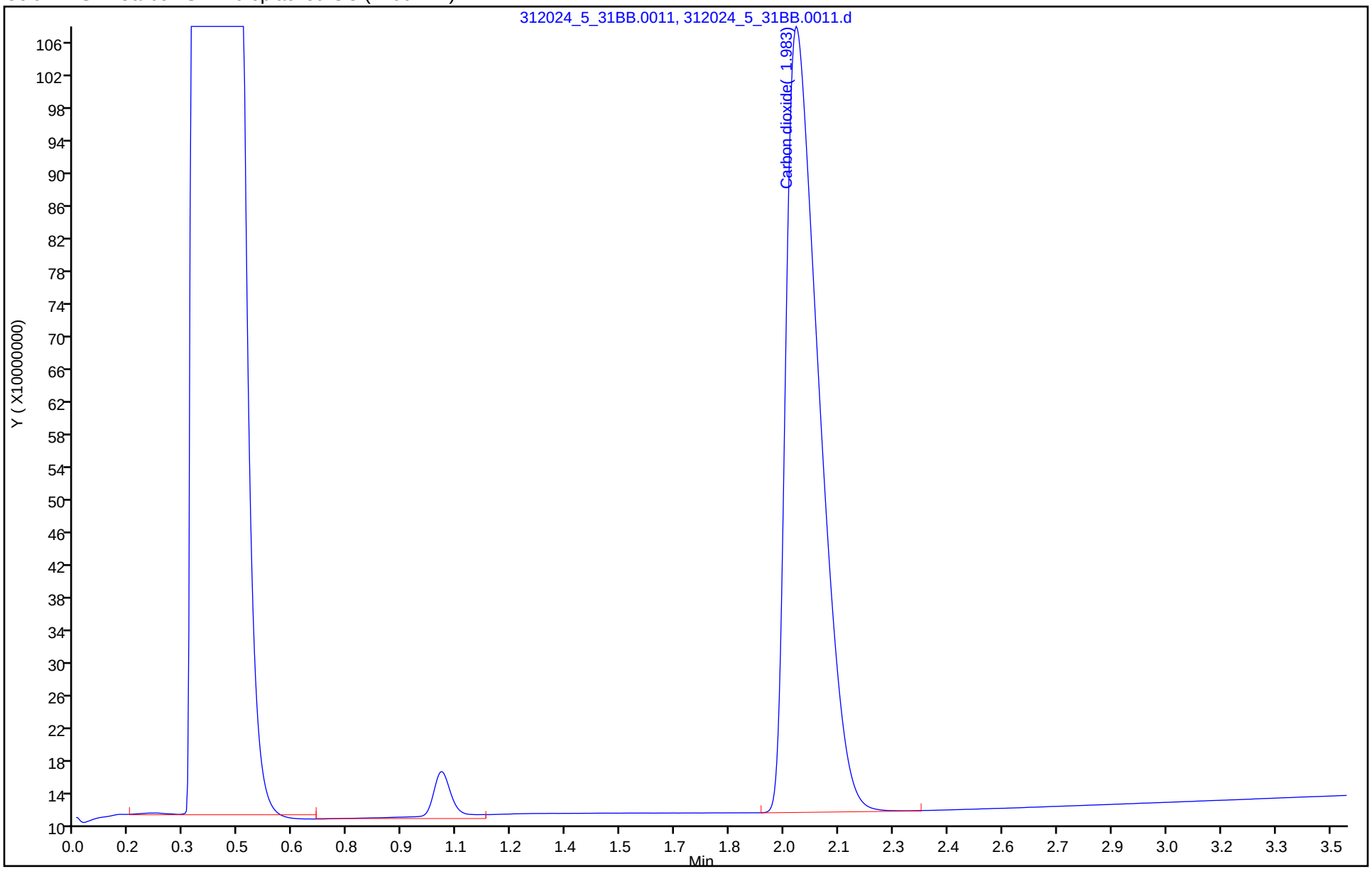
01334761

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19506-B\20240531-115448.b\312024_5_31BB.0011.d

Injection Date:	31-May-2024 11:29:00	Instrument ID:	19506-B	Operator ID:	
Lims ID:	410-173670-A-1-A	Lab Sample ID:	410-173670-1	Worklist Smp#:	11
Client ID:	50WW12_052224				
Purge Vol:	1.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	RSK_CO2_19506B	Limit Group:	GCV - RSK175 CO2		

Column: ShinCarbon ST Microplacked GC (1.00 mm)



Eurofins Lancaster Laboratories Environment Testing, LLC

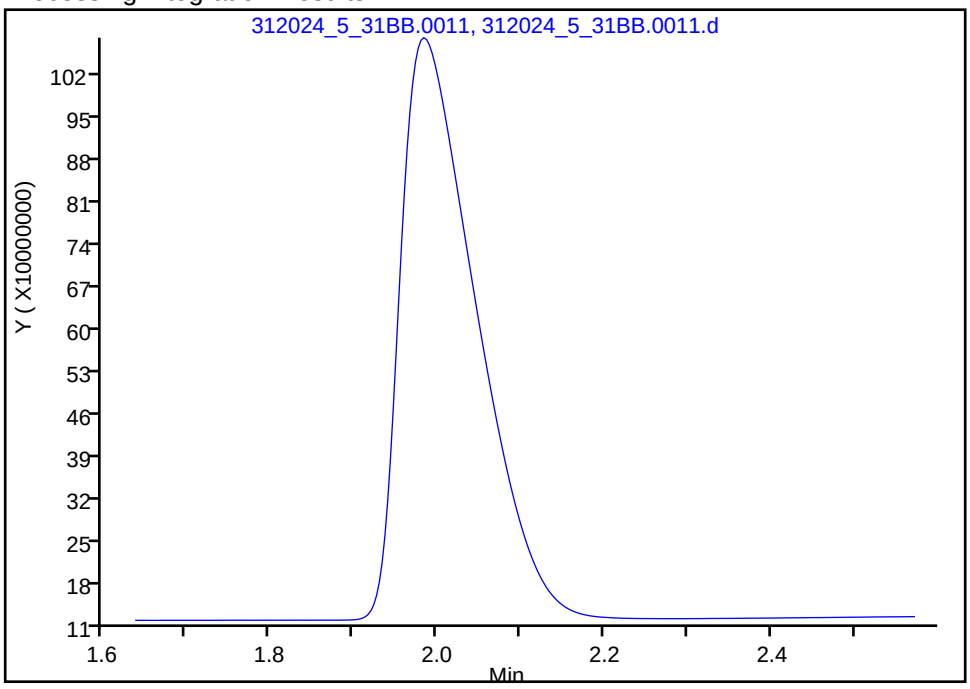
Data File:	\\chromfs\Lancaster\ChromData\19506-B\20240531-115448.b\312024_5_31BB.0011.d				
Injection Date:	31-May-2024 11:29:00	Instrument ID:	19506-B		
Lims ID:	410-173670-A-1-A	Lab Sample ID:	410-173670-1		
Client ID:	50WW12_052224				
Operator ID:		ALS Bottle#:	0	Worklist Smp#:	11
Purge Vol:	1.000 mL	Dil. Factor:	1.0000		
Method:	RSK_CO2_19506B	Limit Group:	GCV - RSK175 CO2		
Column:	ShinCarbon ST Microplacked GC (1.00 mm)	Detector	0FIDA		

1 Carbon dioxide, CAS: 124-38-9

Signal: 1

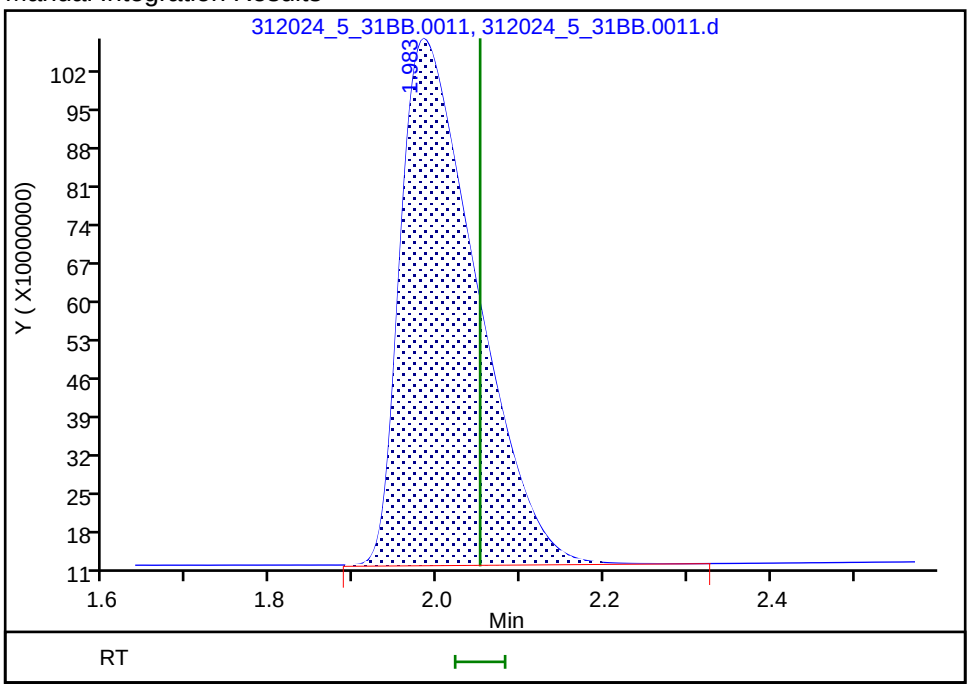
Not Detected
Expected RT: 2.05

Processing Integration Results



Manual Integration Results

RT: 1.98
Height: 954235856
Amount: 304100
Amount Units: ug/l



Reviewer: LXF2, 03-Jun-2024 03:50:21 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Baseline Smoothing

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-173670-1

SDG No.:

Client Sample ID: 50WW12_052224_a Lab Sample ID: 410-173670-2

Matrix: Water Lab File ID: 312024_5_31BB.0012.d

Analysis Method: RSK-175 Date Collected: 05/22/2024 09:25

Sample wt/vol: 5(mL) Date Analyzed: 05/31/2024 11:36

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: 19809 ID: 1(mm)

Purge Volume: Heated Purge: (Y/N) N pH: 6.0

% Moisture: % Solids: Level: (low/med) Low

Analysis Batch No.: 512348 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
124-38-9	Carbon dioxide	320000	M	12000	11000	5600

Eurofins Lancaster Laboratories Environment Testing, LLC

Target Compound Quantitation Report

Data File:	\\chromfs\Lancaster\ChromData\19506-B\20240531-115448.b\312024_5_31BB.0012.d				
Lims ID:	410-173670-A-2-A				
Client ID:	50WW12_052224_a				
Sample Type:	Client				
Inject. Date:	31-May-2024 11:36:00	ALS Bottle#:	0	Worklist Smp#:	12
Purge Vol:	1.000 mL	Dil. Factor:	1.0000		
Sample Info:					
Misc. Info.:	410-0115448-012				
Operator ID:		Instrument ID:	19506-B		
Method:	\\chromfs\Lancaster\ChromData\19506-B\20240531-115448.b\RSK_CO2_19506B.m				
Limit Group:	GCV - RSK175 CO2				
Last Update:	03-Jun-2024 03:50:47	Calib Date:	29-Apr-2024 16:37:00		
Integrator:	Genie				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\19506-B\20240429-112494.b\312024_4_29BB.0013.d				
Column 1 :	ShinCarbon ST Microplacked GC (1.00 mm)		Det: 0FIDA		
Process Host:	CTX1634				
First Level Reviewer: LXF2		Date:	03-Jun-2024 03:50:30		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/l	Flags
1 Carbon dioxide	1.980	2.051	-0.071	1005848871H	320548	Ma

QC Flag Legend

Processing Flags

H - Response Measured by Height

Review Flags

M - Manually Integrated

a - User Assigned ID

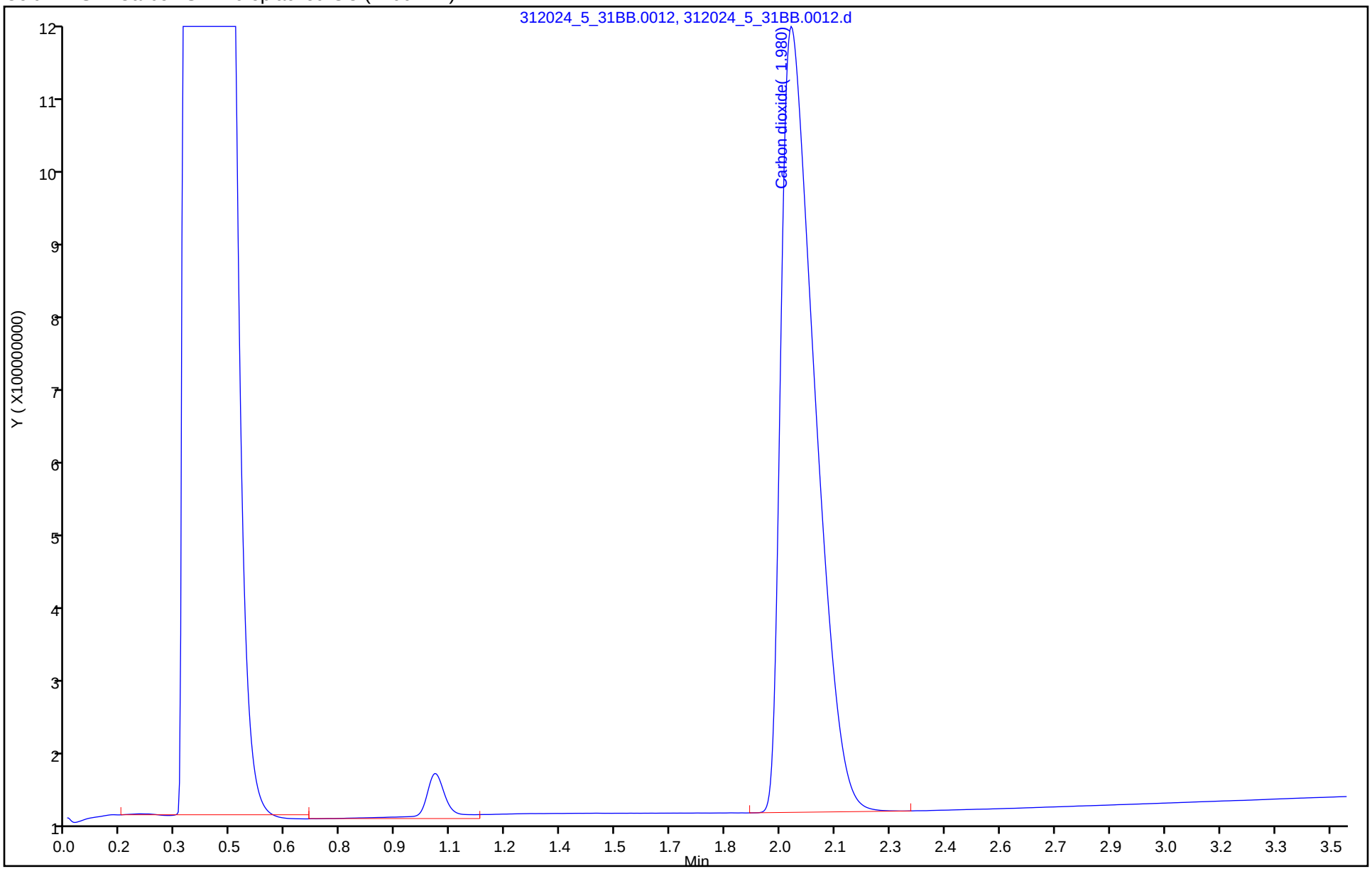
Report Date: 03-Jun-2024 03:50:50 Chrom Revision: 2.3 20-May-2024 22:00:34

01334765

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19506-B\20240531-115448.b\312024_5_31BB.0012.d				
Injection Date:	31-May-2024 11:36:00	Instrument ID:	19506-B	Operator ID:	
Lims ID:	410-173670-A-2-A	Lab Sample ID:	410-173670-2	Worklist Smp#:	12
Client ID:	50WW12_052224_a				
Purge Vol:	1.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	RSK_CO2_19506B	Limit Group:	GCV - RSK175 CO2		

Column: ShinCarbon ST Microplacked GC (1.00 mm)



Eurofins Lancaster Laboratories Environment Testing, LLC

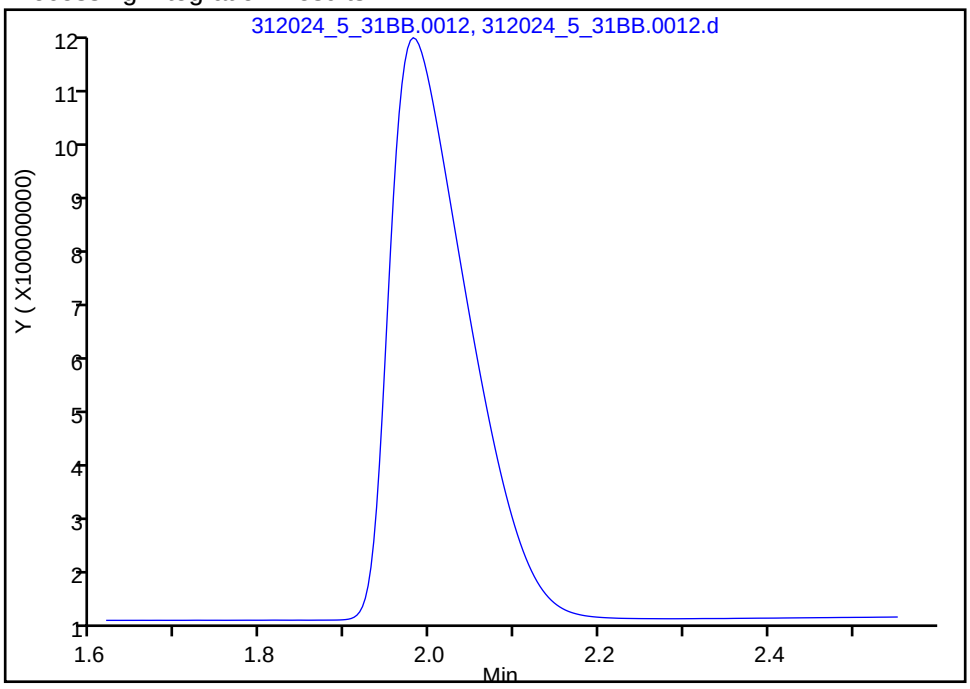
Data File:	\\chromfs\Lancaster\ChromData\19506-B\20240531-115448.b\312024_5_31BB.0012.d		
Injection Date:	31-May-2024 11:36:00	Instrument ID:	19506-B
Lims ID:	410-173670-A-2-A	Lab Sample ID:	410-173670-2
Client ID:	50WW12_052224_a		
Operator ID:		ALS Bottle#:	0 Worklist Smp#: 12
Purge Vol:	1.000 mL	Dil. Factor:	1.0000
Method:	RSK_CO2_19506B	Limit Group:	GCV - RSK175 CO2
Column:	ShinCarbon ST Microplacked GC (1.00 mm)	Detector	0FIDA

1 Carbon dioxide, CAS: 124-38-9

Signal: 1

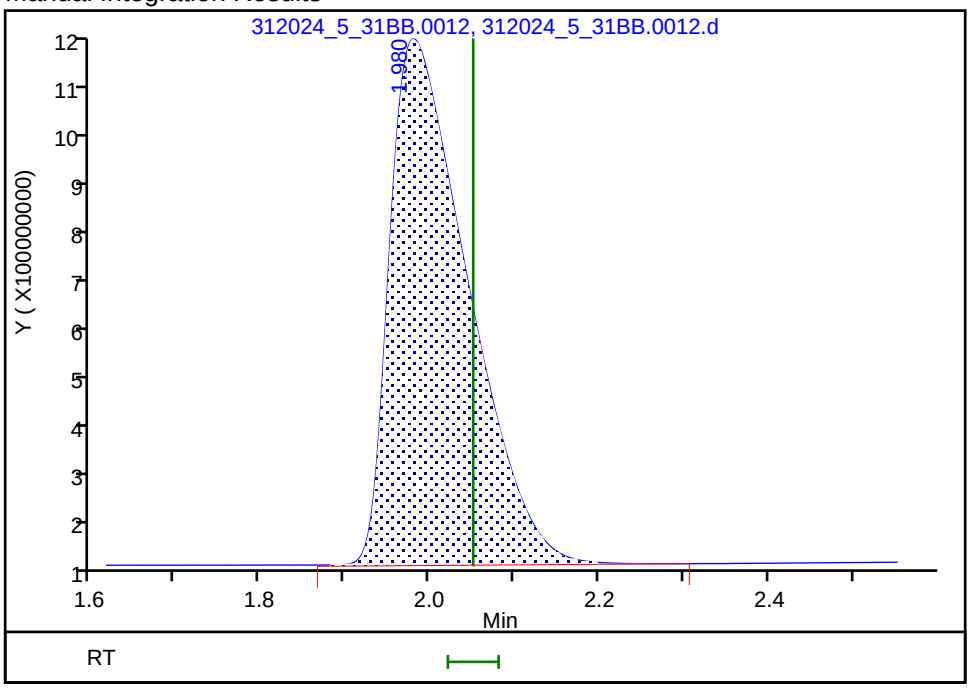
Not Detected
Expected RT: 2.05

Processing Integration Results



Manual Integration Results

RT: 1.98
Height: 1005848871
Amount: 320548
Amount Units: ug/l



Reviewer: LXF2, 03-Jun-2024 03:50:29 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Baseline Smoothing

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-173670-1

SDG No.:

Client Sample ID: 50WW06_052224 Lab Sample ID: 410-173670-3

Matrix: Water Lab File ID: 312024_5_31BB.0013.d

Analysis Method: RSK-175 Date Collected: 05/22/2024 10:20

Sample wt/vol: 5(mL) Date Analyzed: 05/31/2024 11:44

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: 19809 ID: 1(mm)

Purge Volume: Heated Purge: (Y/N) N pH: 6.0

% Moisture: % Solids: Level: (low/med) Low

Analysis Batch No.: 512348 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
124-38-9	Carbon dioxide	160000		12000	11000	5600

Eurofins Lancaster Laboratories Environment Testing, LLC

Target Compound Quantitation Report

Data File:	\\chromfs\Lancaster\ChromData\19506-B\20240531-115448.b\312024_5_31BB.0013.d				
Lims ID:	410-173670-A-3-A				
Client ID:	50WW06_052224				
Sample Type:	Client				
Inject. Date:	31-May-2024 11:44:00	ALS Bottle#:	0	Worklist Smp#:	13
Purge Vol:	1.000 mL	Dil. Factor:	1.0000		
Sample Info:					
Misc. Info.:	410-0115448-013				
Operator ID:		Instrument ID:	19506-B		
Method:	\\chromfs\Lancaster\ChromData\19506-B\20240531-115448.b\RSK_CO2_19506B.m				
Limit Group:	GCV - RSK175 CO2				
Last Update:	03-Jun-2024 03:50:47	Calib Date:	29-Apr-2024 16:37:00		
Integrator:	Genie				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\19506-B\20240429-112494.b\312024_4_29BB.0013.d				
Column 1 :	ShinCarbon ST Microplacked GC (1.00 mm)		Det: 0FIDA		
Process Host:	CTX1634				

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/l	Flags
1 Carbon dioxide	2.023	2.051	-0.028	506783976	H 161504	

Report Date: 03-Jun-2024 03:50:50 Chrom Revision: 2.3 20-May-2024 22:00:34

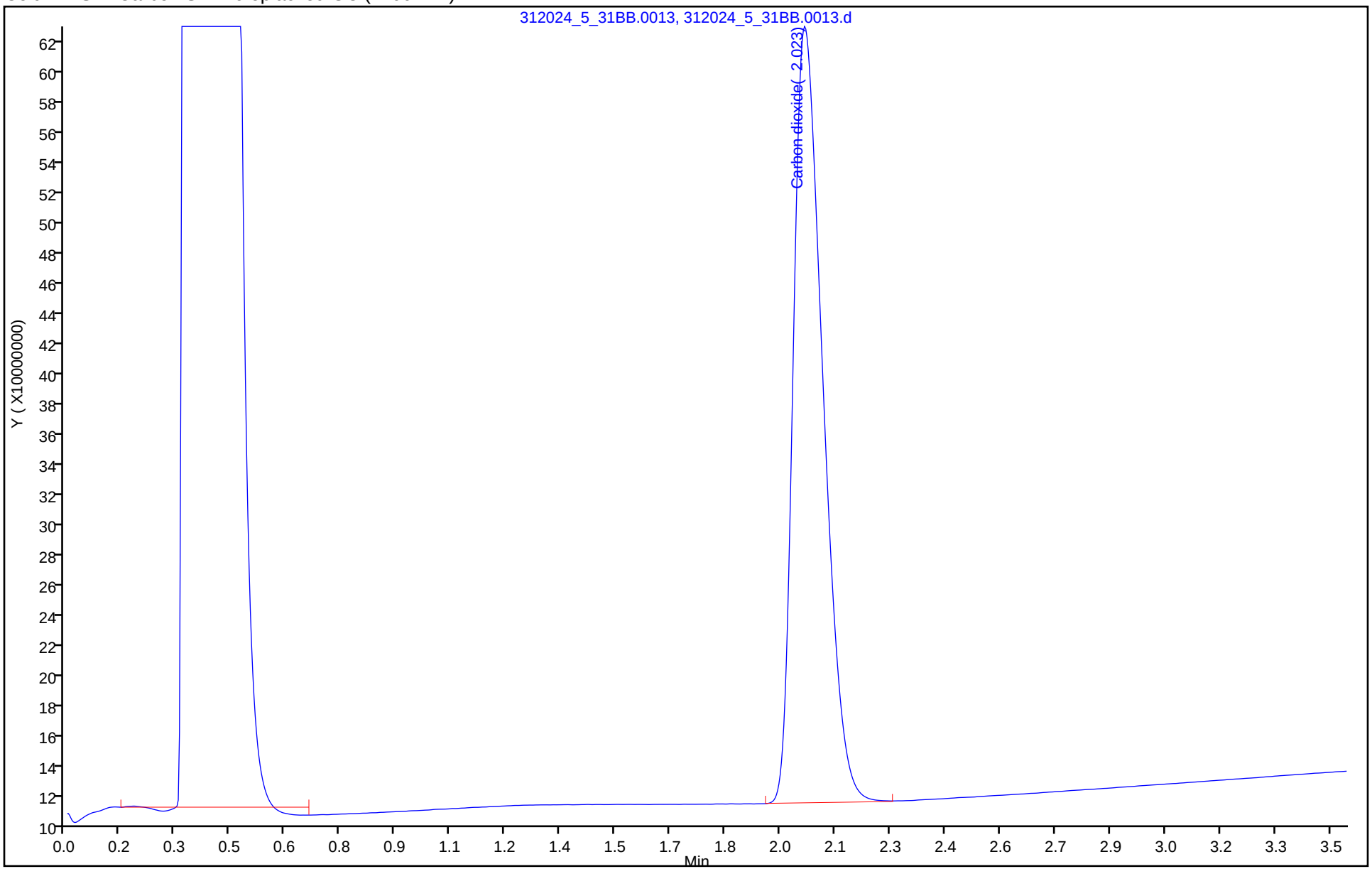
01334769

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19506-B\20240531-115448.b\312024_5_31BB.0013.d

Injection Date:	31-May-2024 11:44:00	Instrument ID:	19506-B	Operator ID:	
Lims ID:	410-173670-A-3-A	Lab Sample ID:	410-173670-3	Worklist Smp#:	13
Client ID:	50WW06_052224				
Purge Vol:	1.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	RSK_CO2_19506B	Limit Group:	GCV - RSK175 CO2		

Column: ShinCarbon ST Microplacked GC (1.00 mm)



FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-173670-1

SDG No.:

Client Sample ID: 50WW06_052224_a Lab Sample ID: 410-173670-4

Matrix: Water Lab File ID: 312024_5_31BB.0014.d

Analysis Method: RSK-175 Date Collected: 05/22/2024 10:20

Sample wt/vol: 5(mL) Date Analyzed: 05/31/2024 11:52

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: 19809 ID: 1(mm)

Purge Volume: Heated Purge: (Y/N) N pH: 6.0

% Moisture: % Solids: Level: (low/med) Low

Analysis Batch No.: 512348 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
124-38-9	Carbon dioxide	170000		12000	11000	5600

Eurofins Lancaster Laboratories Environment Testing, LLC

Target Compound Quantitation Report

Data File:	\\chromfs\Lancaster\ChromData\19506-B\20240531-115448.b\312024_5_31BB.0014.d				
Lims ID:	410-173670-A-4-A				
Client ID:	50WW06_052224_a				
Sample Type:	Client				
Inject. Date:	31-May-2024 11:52:00	ALS Bottle#:	0	Worklist Smp#:	14
Purge Vol:	1.000 mL	Dil. Factor:	1.0000		
Sample Info:					
Misc. Info.:	410-0115448-014				
Operator ID:		Instrument ID:	19506-B		
Method:	\\chromfs\Lancaster\ChromData\19506-B\20240531-115448.b\RSK_CO2_19506B.m				
Limit Group:	GCV - RSK175 CO2				
Last Update:	03-Jun-2024 03:50:47	Calib Date:	29-Apr-2024 16:37:00		
Integrator:	Genie				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\19506-B\20240429-112494.b\312024_4_29BB.0013.d				
Column 1 :	ShinCarbon ST Microplacked GC (1.00 mm)		Det: 0FIDA		
Process Host:	CTX1634				

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/l	Flags
1 Carbon dioxide	2.021	2.051	-0.030	541963944	172715	H

Report Date: 03-Jun-2024 03:50:51 Chrom Revision: 2.3 20-May-2024 22:00:34

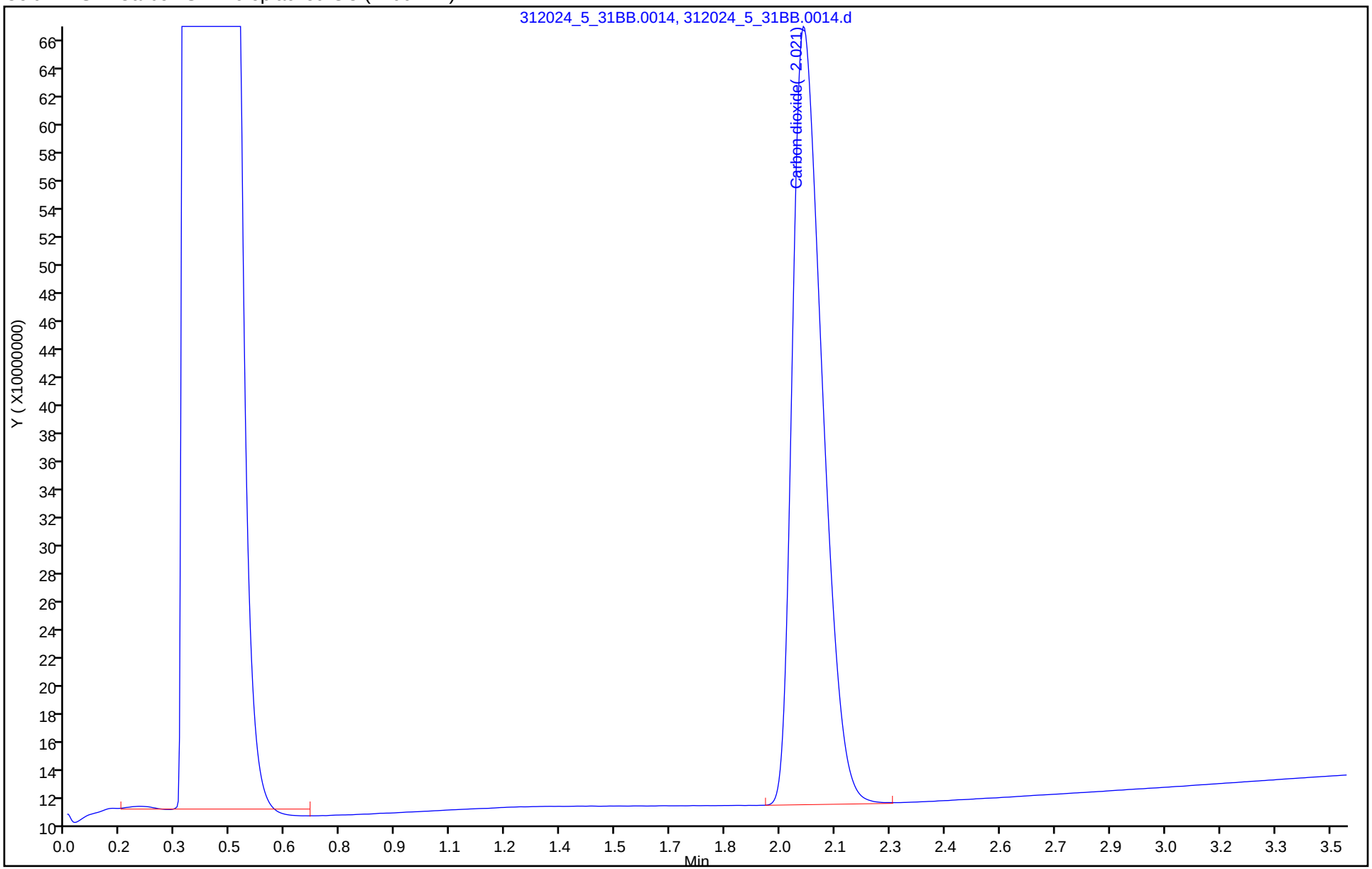
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Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19506-B\20240531-115448.b\312024_5_31BB.0014.d

Injection Date:	31-May-2024 11:52:00	Instrument ID:	19506-B	Operator ID:	
Lims ID:	410-173670-A-4-A	Lab Sample ID:	410-173670-4	Worklist Smp#:	14
Client ID:	50WW06_052224_a				
Purge Vol:	1.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	RSK_CO2_19506B	Limit Group:	GCV - RSK175 CO2		

Column: ShinCarbon ST Microplacked GC (1.00 mm)



Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-173670-1 Analy Batch No.: 499750

SDG No.:

Instrument ID: 19506-B GC Column: 19809 ID: 1(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/29/2024 15:57 Calibration End Date: 04/29/2024 16:37 Calibration ID: 61130

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-499750/8	312024_4_29BB.0008.d
Level 2	IC 410-499750/9	312024_4_29BB.0009.d
Level 3	ICRT 410-499750/10	312024_4_29BB.0010.d
Level 4	IC 410-499750/11	312024_4_29BB.0011.d
Level 5	IC 410-499750/12	312024_4_29BB.0012.d
Level 6	IC 410-499750/13	312024_4_29BB.0013.d

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6					RT WINDOW	AVG RT
Carbon dioxide	2.055	2.051	2.048	2.037	2.020	1.980					2.017 - 2.077	2.032

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-173670-1 Analy Batch No.: 499750

SDG No.:

Instrument ID: 19506-B GC Column: 19809 ID: 1(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/29/2024 15:57 Calibration End Date: 04/29/2024 16:37 Calibration ID: 61130

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-499750/8	312024_4_29BB.0008.d
Level 2	IC 410-499750/9	312024_4_29BB.0009.d
Level 3	ICRT 410-499750/10	312024_4_29BB.0010.d
Level 4	IC 410-499750/11	312024_4_29BB.0011.d
Level 5	IC 410-499750/12	312024_4_29BB.0012.d
Level 6	IC 410-499750/13	312024_4_29BB.0013.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	3273.6 2914.8	3533.4 2752.9	3350.9	3001.7	Ave		3137.90247				9.4		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.

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-173670-1 Analy Batch No.: 499750

SDG No.:

Instrument ID: 19506-B GC Column: 19809 ID: 1(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/29/2024 15:57 Calibration End Date: 04/29/2024 16:37 Calibration ID: 61130

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-499750/8	312024_4_29BB.0008.d
Level 2	IC 410-499750/9	312024_4_29BB.0009.d
Level 3	ICRT 410-499750/10	312024_4_29BB.0010.d
Level 4	IC 410-499750/11	312024_4_29BB.0011.d
Level 5	IC 410-499750/12	312024_4_29BB.0012.d
Level 6	IC 410-499750/13	312024_4_29BB.0013.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	35178219 986082668	75940683	120029586	268806379	522045301	10746 358200	21492	35820	89550	179100

Curve Type Legend:
Ave = Average by Height

Eurofins Lancaster Laboratories Environment Testing, LLC

Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19506-B\20240429-112494.b\312024_4_29BB.0008.d
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 29-Apr-2024 15:57:00 ALS Bottle#: 0 Worklist Smp#: 8
Purge Vol: 1.000 mL Dil. Factor: 1.0000
Sample Info:
Misc. Info.: 410-0112494-008
Operator ID: Instrument ID: 19506-B
Sublist: chrom-RSK_CO2_19506B*sub1

Method: \\chromfs\Lancaster\ChromData\19506-B\20240429-112494.b\RSK_CO2_19506B.m
Limit Group: GCV - RSK175 CO2
Last Update: 30-Apr-2024 04:04:35 Calib Date: 29-Apr-2024 16:37:00
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19506-B\20240429-112494.b\312024_4_29BB.0013.d

Column 1 : ShinCarbon ST Microplacked GC (1.00 mm) Det: 0FIDA
Process Host: CTX1646

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Carbon dioxide	2.055	2.047	0.008	35178219H	10746	11211	

Reagents:

EPH_CO2MS_00006 Amount Added: 30.00 Units: uL

Report Date: 30-Apr-2024 04:04:35 Chrom Revision: 2.3 26-Apr-2024 12:18:52

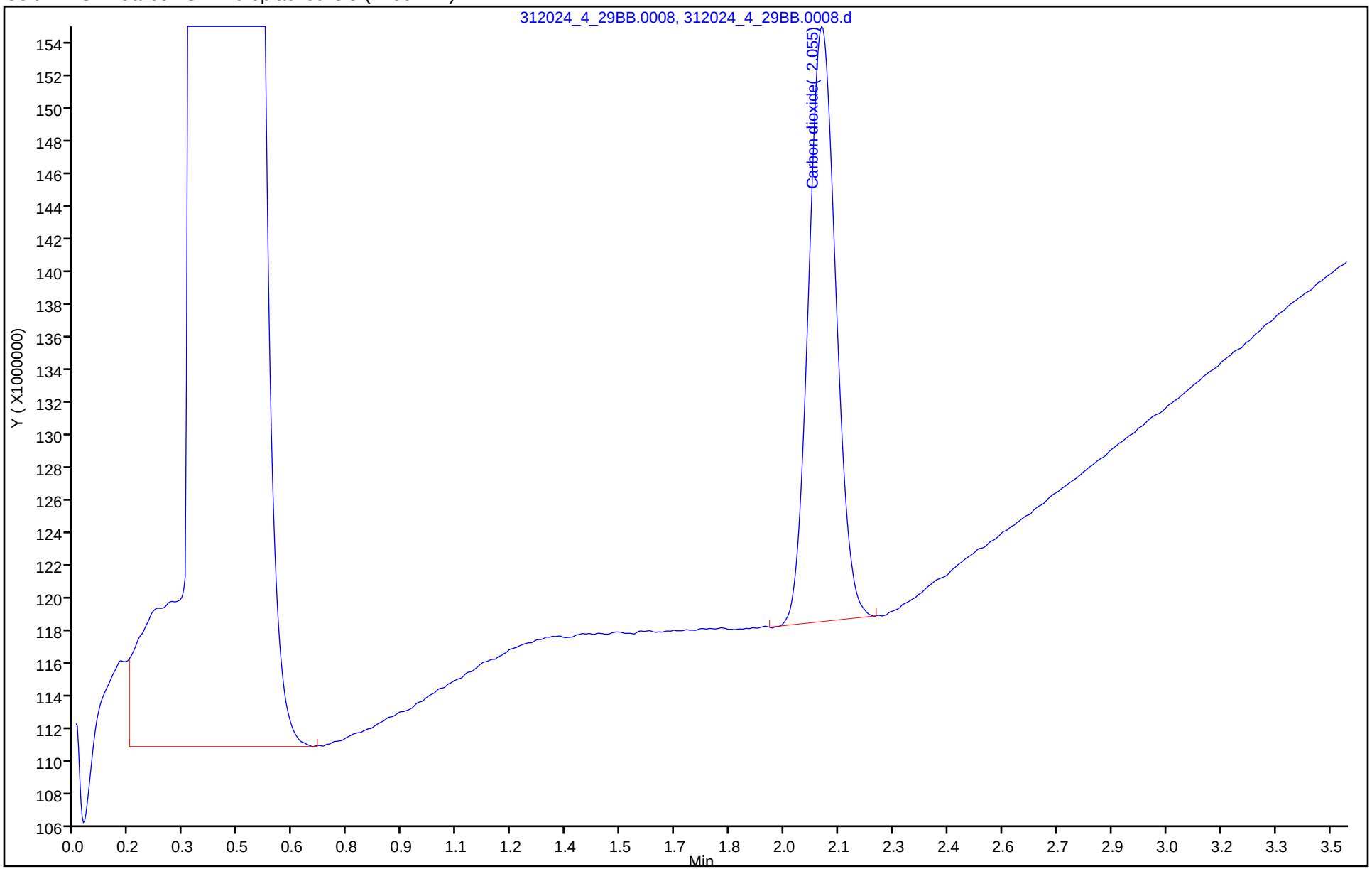
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Eurofins Lancaster Laboratories Environment Testing, LLC

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Injection Date:	29-Apr-2024 15:57:00	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: ShinCarbon ST Microplacked GC (1.00 mm)



Eurofins Lancaster Laboratories Environment Testing, LLC

Target Compound Quantitation Report

Data File:	\\chromfs\Lancaster\ChromData\19506-B\20240429-112494.b\312024_4_29BB.0009.d				
Lims ID:	IC				
Client ID:					
Sample Type:	IC	Calib Level:	2		
Inject. Date:	29-Apr-2024 16:06:00	ALS Bottle#:	0	Worklist Smp#:	9
Purge Vol:	1.000 mL	Dil. Factor:	1.0000		
Sample Info:					
Misc. Info.:	410-0112494-009				
Operator ID:		Instrument ID:	19506-B		
Sublist:	chrom-RSK_CO2_19506B*sub1				
Method:	\\chromfs\Lancaster\ChromData\19506-B\20240429-112494.b\RSK_CO2_19506B.m				
Limit Group:	GCV - RSK175 CO2				
Last Update:	30-Apr-2024 04:04:36	Calib Date:	29-Apr-2024 16:37:00		
Integrator:	Genie				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\19506-B\20240429-112494.b\312024_4_29BB.0013.d				
Column 1 :	ShinCarbon ST Microplacked GC (1.00 mm)		Det: 0FIDA		
Process Host:	CTX1646				

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Carbon dioxide	2.051	2.047	0.004	75940683H	21492	24201	

Reagents:

EPH_CO2MS_00006 Amount Added: 60.00 Units: uL

Report Date: 30-Apr-2024 04:04:36 Chrom Revision: 2.3 26-Apr-2024 12:18:52

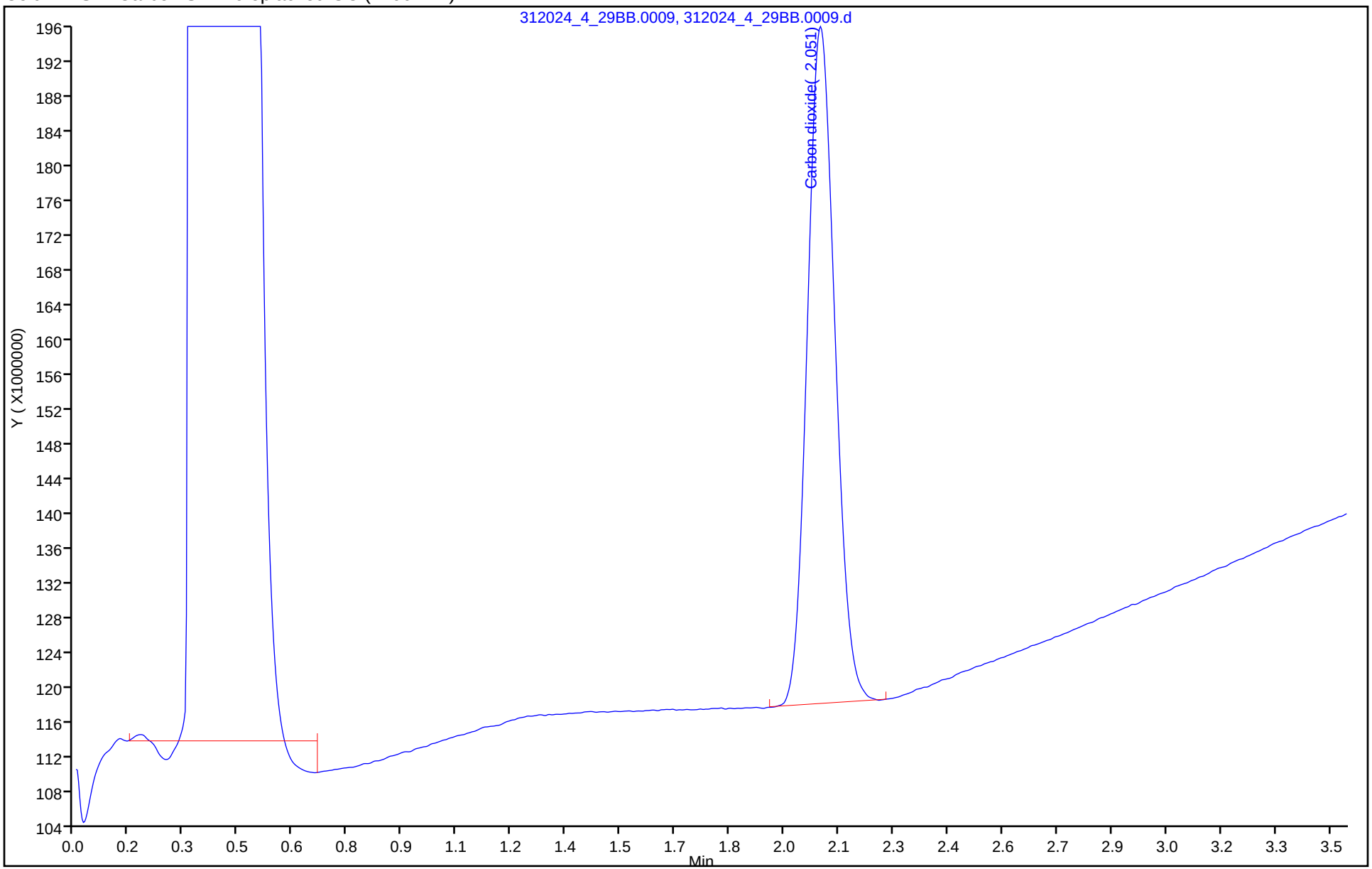
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Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19506-B\20240429-112494.b\312024_4_29BB.0009.d

Injection Date:	29-Apr-2024 16:06:00	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: ShinCarbon ST Microplacked GC (1.00 mm)



Eurofins Lancaster Laboratories Environment Testing, LLC

Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19506-B\20240429-112494.b\312024_4_29BB.0010.d
Lims ID: ICRT
Client ID:
Sample Type: ICRT Calib Level: 3
Inject. Date: 29-Apr-2024 16:13:00 ALS Bottle#: 0 Worklist Smp#: 10
Purge Vol: 1.000 mL Dil. Factor: 1.0000
Sample Info:
Misc. Info.: 410-0112494-010
Operator ID: Instrument ID: 19506-B
Sublist: chrom-RSK_CO2_19506B*sub1

Method: \\chromfs\Lancaster\ChromData\19506-B\20240429-112494.b\RSK_CO2_19506B.m
Limit Group: GCV - RSK175 CO2
Last Update: 30-Apr-2024 04:04:36 Calib Date: 29-Apr-2024 16:37:00
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19506-B\20240429-112494.b\312024_4_29BB.0013.d

Column 1 : ShinCarbon ST Microplacked GC (1.00 mm) Det: 0FIDA
Process Host: CTX1646

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Carbon dioxide	2.048	2.048	0.000	120029586	H 35820	38252	

Reagents:

EPH_CO2MS_00006 Amount Added: 100.00 Units: uL

Report Date: 30-Apr-2024 04:04:36 Chrom Revision: 2.3 26-Apr-2024 12:18:52

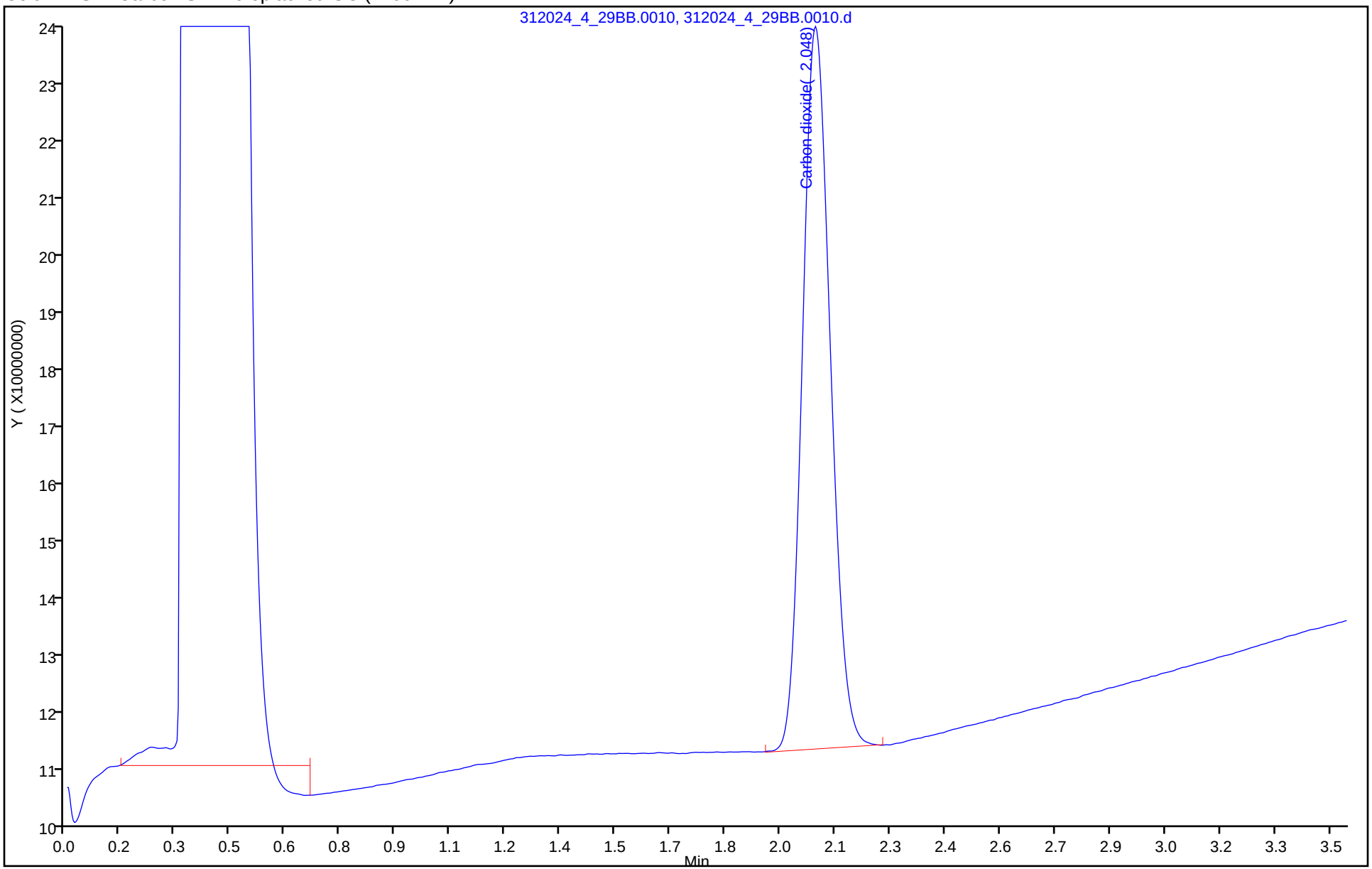
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Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19506-B\20240429-112494.b\312024_4_29BB.0010.d

Injection Date:	29-Apr-2024 16:13:00	Instrument ID:	19506-B	Operator ID:	
Lims ID:	ICRT			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: ShinCarbon ST Microplacked GC (1.00 mm)



Eurofins Lancaster Laboratories Environment Testing, LLC

Target Compound Quantitation Report

Data File:	\\chromfs\Lancaster\ChromData\19506-B\20240429-112494.b\312024_4_29BB.0011.d				
Lims ID:	IC				
Client ID:					
Sample Type:	IC	Calib Level:	4		
Inject. Date:	29-Apr-2024 16:21:00	ALS Bottle#:	0	Worklist Smp#:	11
Purge Vol:	1.000 mL	Dil. Factor:	1.0000		
Sample Info:					
Misc. Info.:	410-0112494-011				
Operator ID:		Instrument ID:	19506-B		
Sublist:	chrom-RSK_CO2_19506B*sub1				
Method:	\\chromfs\Lancaster\ChromData\19506-B\20240429-112494.b\RSK_CO2_19506B.m				
Limit Group:	GCV - RSK175 CO2				
Last Update:	30-Apr-2024 04:04:37	Calib Date:	29-Apr-2024 16:37:00		
Integrator:	Genie				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\19506-B\20240429-112494.b\312024_4_29BB.0013.d				
Column 1 :	ShinCarbon ST Microplacked GC (1.00 mm)		Det: 0FIDA		
Process Host:	CTX1646				

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Carbon dioxide	2.037	2.048	-0.011	268806379	H 89550	85664	

Reagents:

EPH_CO2MS_00006 Amount Added: 250.00 Units: uL

Report Date: 30-Apr-2024 04:04:37 Chrom Revision: 2.3 26-Apr-2024 12:18:52

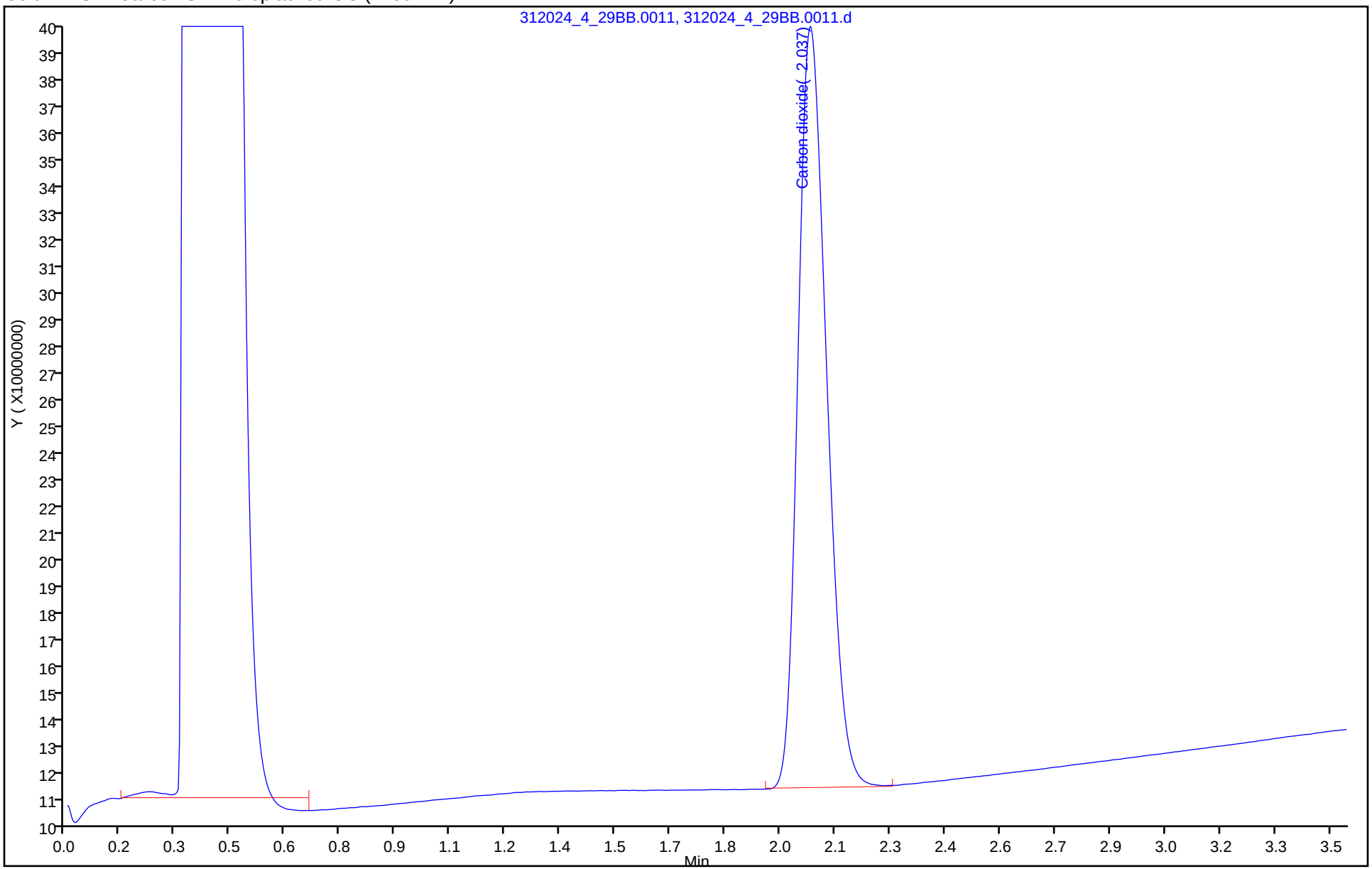
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Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19506-B\20240429-112494.b\312024_4_29BB.0011.d

Injection Date:	29-Apr-2024 16:21:00	Instrument ID:	19506-B	Operator ID:	
Lims ID:	IC			Worklist Smp#:	11
Client ID:					
Purge Vol:	1.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	RSK_CO2_19506B	Limit Group:	GCV - RSK175 CO2		

Column: ShinCarbon ST Microplacked GC (1.00 mm)



Eurofins Lancaster Laboratories Environment Testing, LLC

Target Compound Quantitation Report

Data File:	\\chromfs\Lancaster\ChromData\19506-B\20240429-112494.b\312024_4_29BB.0012.d				
Lims ID:	IC				
Client ID:					
Sample Type:	IC	Calib Level:	5		
Inject. Date:	29-Apr-2024 16:29:00	ALS Bottle#:	0	Worklist Smp#:	12
Purge Vol:	1.000 mL	Dil. Factor:	1.0000		
Sample Info:					
Misc. Info.:	410-0112494-012				
Operator ID:		Instrument ID:	19506-B		
Sublist:	chrom-RSK_CO2_19506B*sub1				
Method:	\\chromfs\Lancaster\ChromData\19506-B\20240429-112494.b\RSK_CO2_19506B.m				
Limit Group:	GCV - RSK175 CO2				
Last Update:	30-Apr-2024 04:04:38	Calib Date:	29-Apr-2024 16:37:00		
Integrator:	Genie				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\19506-B\20240429-112494.b\312024_4_29BB.0013.d				
Column 1 :	ShinCarbon ST Microplacked GC (1.00 mm)		Det: 0FIDA		
Process Host:	CTX1646				

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Carbon dioxide	2.020	2.048	-0.028	522045301	H 179100	166368	

Reagents:

EPH_CO2MS_00006 Amount Added: 500.00 Units: uL

Report Date: 30-Apr-2024 04:04:38 Chrom Revision: 2.3 26-Apr-2024 12:18:52

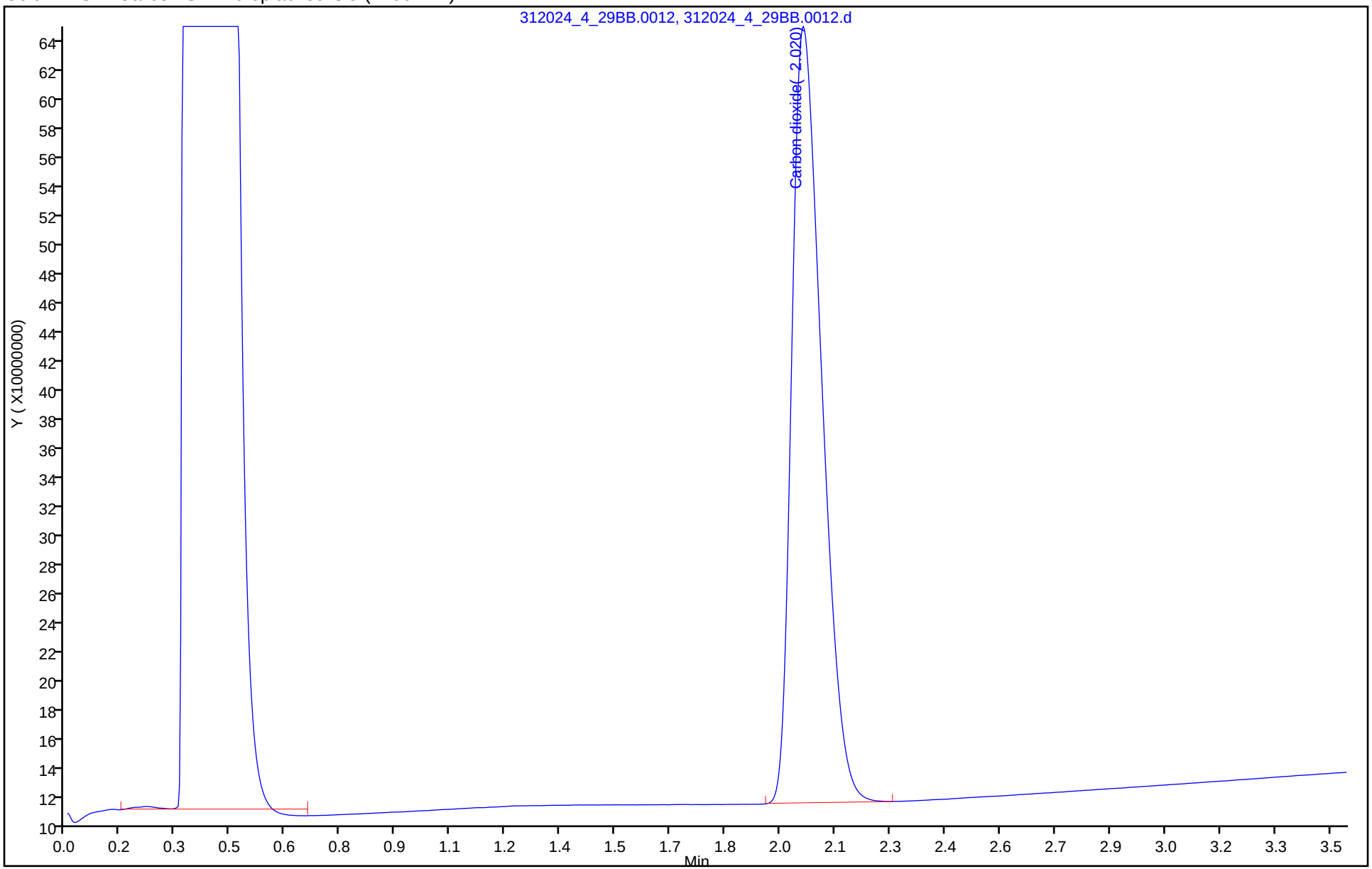
01334785

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19506-B\20240429-112494.b\312024_4_29BB.0012.d

Injection Date:	29-Apr-2024 16:29:00	Instrument ID:	19506-B	Operator ID:	
Lims ID:	IC			Worklist Smp#:	12
Client ID:					
Purge Vol:	1.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	RSK_CO2_19506B	Limit Group:	GCV - RSK175 CO2		

Column: ShinCarbon ST Microplacked GC (1.00 mm)



Eurofins Lancaster Laboratories Environment Testing, LLC

Target Compound Quantitation Report

Data File:	\\chromfs\Lancaster\ChromData\19506-B\20240429-112494.b\312024_4_29BB.0013.d				
Lims ID:	IC				
Client ID:					
Sample Type:	IC	Calib Level:	6		
Inject. Date:	29-Apr-2024 16:37:00	ALS Bottle#:	0	Worklist Smp#:	13
Purge Vol:	1.000 mL	Dil. Factor:	1.0000		
Sample Info:					
Misc. Info.:	410-0112494-013				
Operator ID:		Instrument ID:	19506-B		
Sublist:	chrom-RSK_CO2_19506B*sub1				
Method:	\\chromfs\Lancaster\ChromData\19506-B\20240429-112494.b\RSK_CO2_19506B.m				
Limit Group:	GCV - RSK175 CO2				
Last Update:	30-Apr-2024 04:04:38	Calib Date:	29-Apr-2024 16:37:00		
Integrator:	Genie				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\19506-B\20240429-112494.b\312024_4_29BB.0013.d				
Column 1 :	ShinCarbon ST Microplacked GC (1.00 mm)		Det: 0FIDA		
Process Host:	CTX1646				
First Level Reviewer: LXF2		Date:	30-Apr-2024 04:03:45		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Carbon dioxide	1.980	2.048	-0.068	986082668H	358200	314249	Ma

QC Flag Legend

Processing Flags

H - Response Measured by Height

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

EPH_CO2MS_00006 Amount Added: 1000.00 Units: uL

Report Date: 30-Apr-2024 04:04:38 Chrom Revision: 2.3 26-Apr-2024 12:18:52

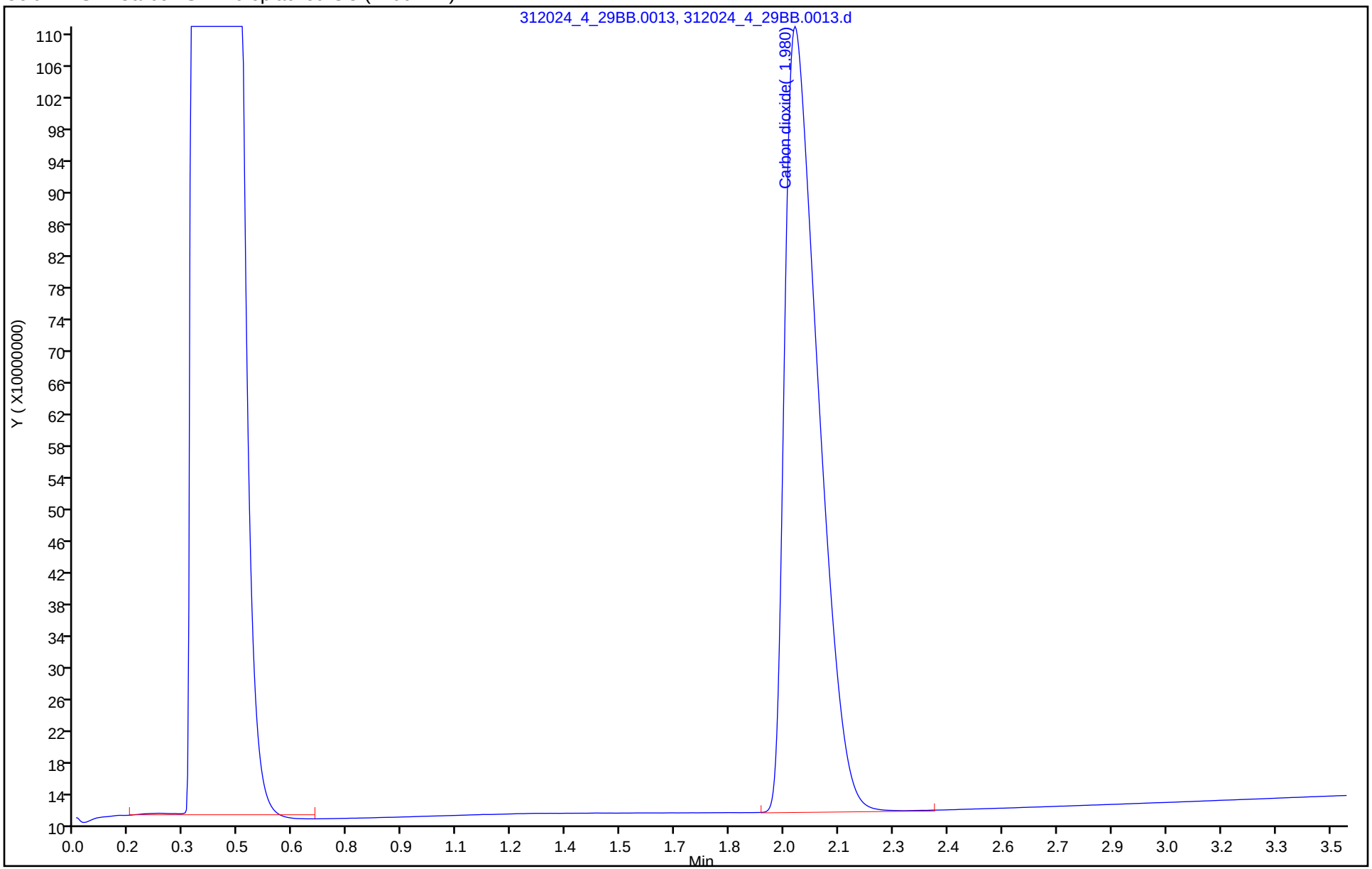
01334787

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19506-B\20240429-112494.b\312024_4_29BB.0013.d

Injection Date:	29-Apr-2024 16:37:00	Instrument ID:	19506-B	Operator ID:	
Lims ID:	IC			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: ShinCarbon ST Microplacked GC (1.00 mm)



Eurofins Lancaster Laboratories Environment Testing, LLC

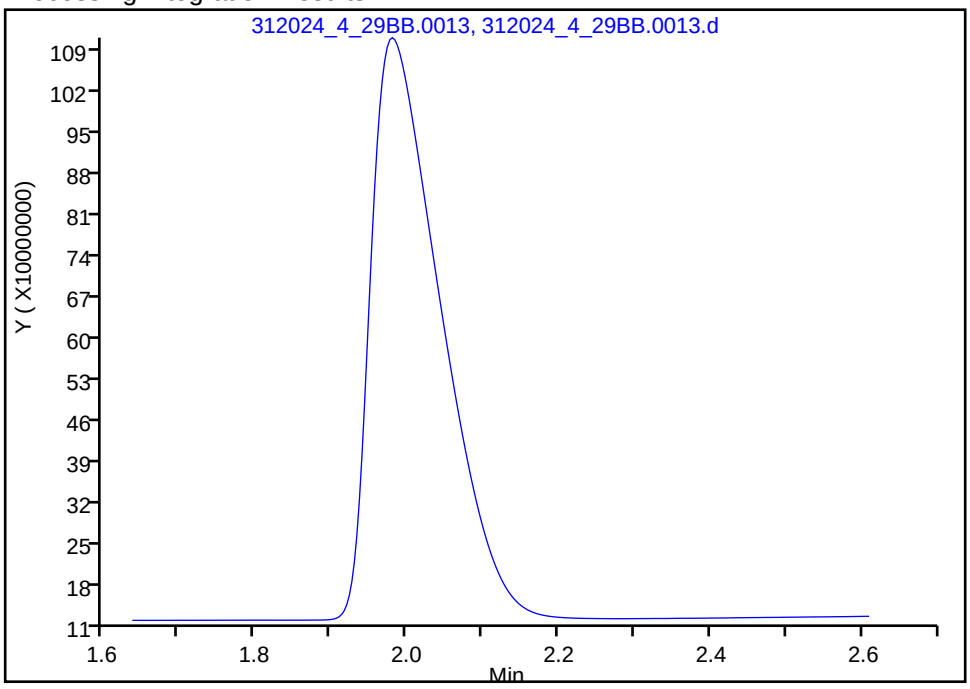
Data File:	\\chromfs\Lancaster\ChromData\19506-B\20240429-112494.b\312024_4_29BB.0013.d				
Injection Date:	29-Apr-2024 16:37:00	Instrument ID:	19506-B		
Lims ID:	IC				
Client ID:					
Operator ID:		ALS Bottle#:	0	Worklist Smp#:	13
Purge Vol:	1.000 mL	Dil. Factor:	1.0000		
Method:	RSK_CO2_19506B	Limit Group:	GCV - RSK175 CO2		
Column:	ShinCarbon ST Microplacked GC (1.00 mm)	Detector	0FIDA		

1 Carbon dioxide, CAS: 124-38-9

Signal: 1

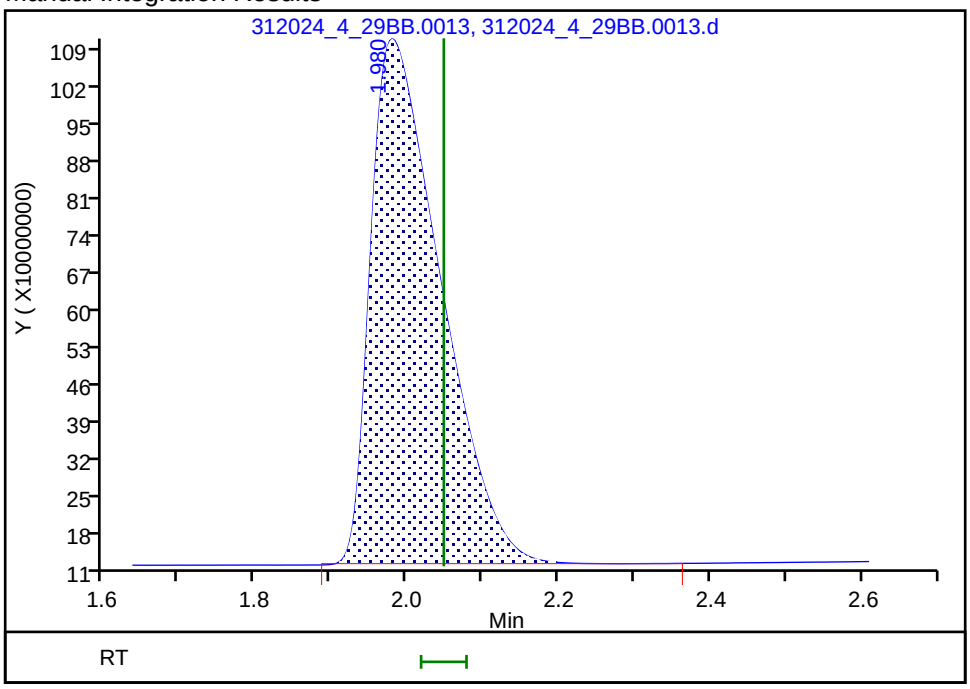
Not Detected
Expected RT: 2.05

Processing Integration Results



Manual Integration Results

RT: 1.98
Height: 986082668
Amount: 314249
Amount Units: ug/l



Reviewer: LXF2, 30-Apr-2024 04:03:43 -04:00:00 (UTC)
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

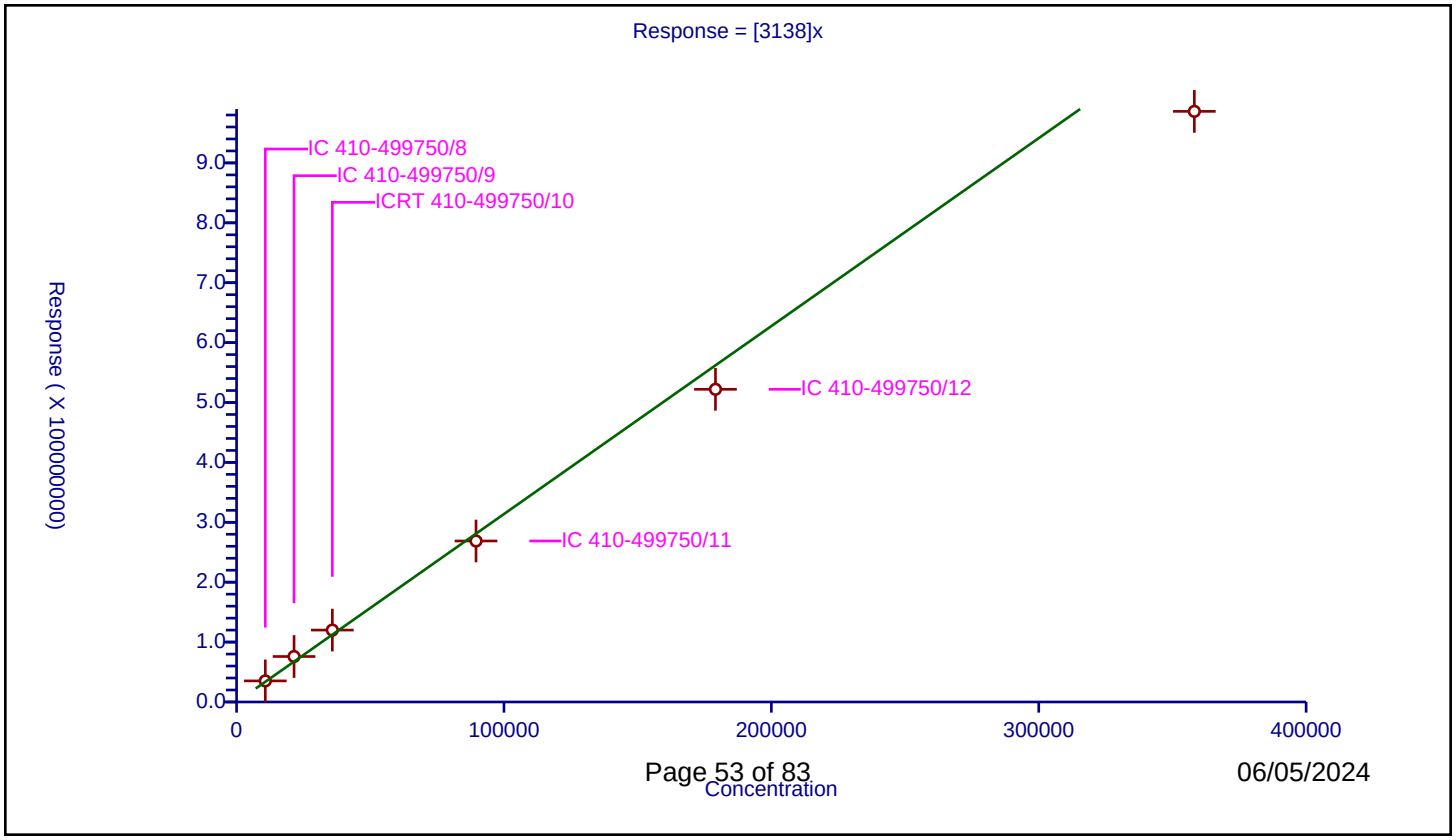
Curve Coefficients

Intercept:	0
Slope:	3138

Error Coefficients

Relative Standard Deviation:	9.4

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 410-499750/8	10746.0	35178219.0			3273.610553	Y
2	IC 410-499750/9	21492.0	75940683.0			3533.439559	Y
3	ICRT 410-499750/10	35820.0	120029586.0			3350.909715	Y
4	IC 410-499750/11	89550.0	268806379.0			3001.746276	Y
5	IC 410-499750/12	179100.0	522045301.0			2914.825801	Y
6	IC 410-499750/13	358200.0	986082668.0			2752.882937	Y



FORM VII
GC VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-173670-1

SDG No.:

Lab Sample ID: ICV 410-499750/16 Calibration Date: 04/29/2024 17:01

Instrument ID: 19506-B Calib Start Date: 04/29/2024 15:57

GC Column: 19809 ID: 1.00(mm) Calib End Date: 04/29/2024 16:37

Lab File ID: 312024_4_29BB.0016.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	3138	3393		37900	35000	8.1	15.0

FORM VII
GC VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-173670-1

SDG No.:

Lab Sample ID: ICV 410-499750/16
Calibration Date: 04/29/2024 17:01

Instrument ID: 19506-B
Calib Start Date: 04/29/2024 15:57

GC Column: 19809 ID: 1.00(mm)
Calib End Date: 04/29/2024 16:37

Lab File ID: 312024_4_29BB.0016.d
Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Carbon dioxide	2.05	2.02	2.08

Eurofins Lancaster Laboratories Environment Testing, LLC

Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19506-B\20240429-112494.b\312024_4_29BB.0016.d
Lims ID: ICV
Client ID:
Sample Type: ICV
Inject. Date: 29-Apr-2024 17:01:00 ALS Bottle#: 0 Worklist Smp#: 16
Purge Vol: 1.000 mL Dil. Factor: 1.0000
Sample Info:
Misc. Info.: 410-0112494-016
Operator ID: Instrument ID: 19506-B
Sublist:

Method: \\chromfs\Lancaster\ChromData\19506-B\20240429-112494.b\RSK_CO2_19506B.m
Limit Group: GCV - RSK175 CO2
Last Update: 30-Apr-2024 04:13:29 Calib Date: 29-Apr-2024 16:37:00
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19506-B\20240429-112494.b\312024_4_29BB.0013.d

Column 1 : ShinCarbon ST Microplacked GC (1.00 mm) Det: 0FIDA
Process Host: CTX1646

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Carbon dioxide	2.048	2.047	0.001	118784440H	35008	37855	

Reagents:

EPH_CO2ICV_00003 Amount Added: 320.00 Units: uL

Report Date: 30-Apr-2024 04:40:23 Chrom Revision: 2.3 26-Apr-2024 12:18:52

01334793

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19506-B\20240429-112494.b\312024_4_29BB.0016.d

Injection Date: 29-Apr-2024 17:01:00 Instrument ID: 19506-B Operator ID:

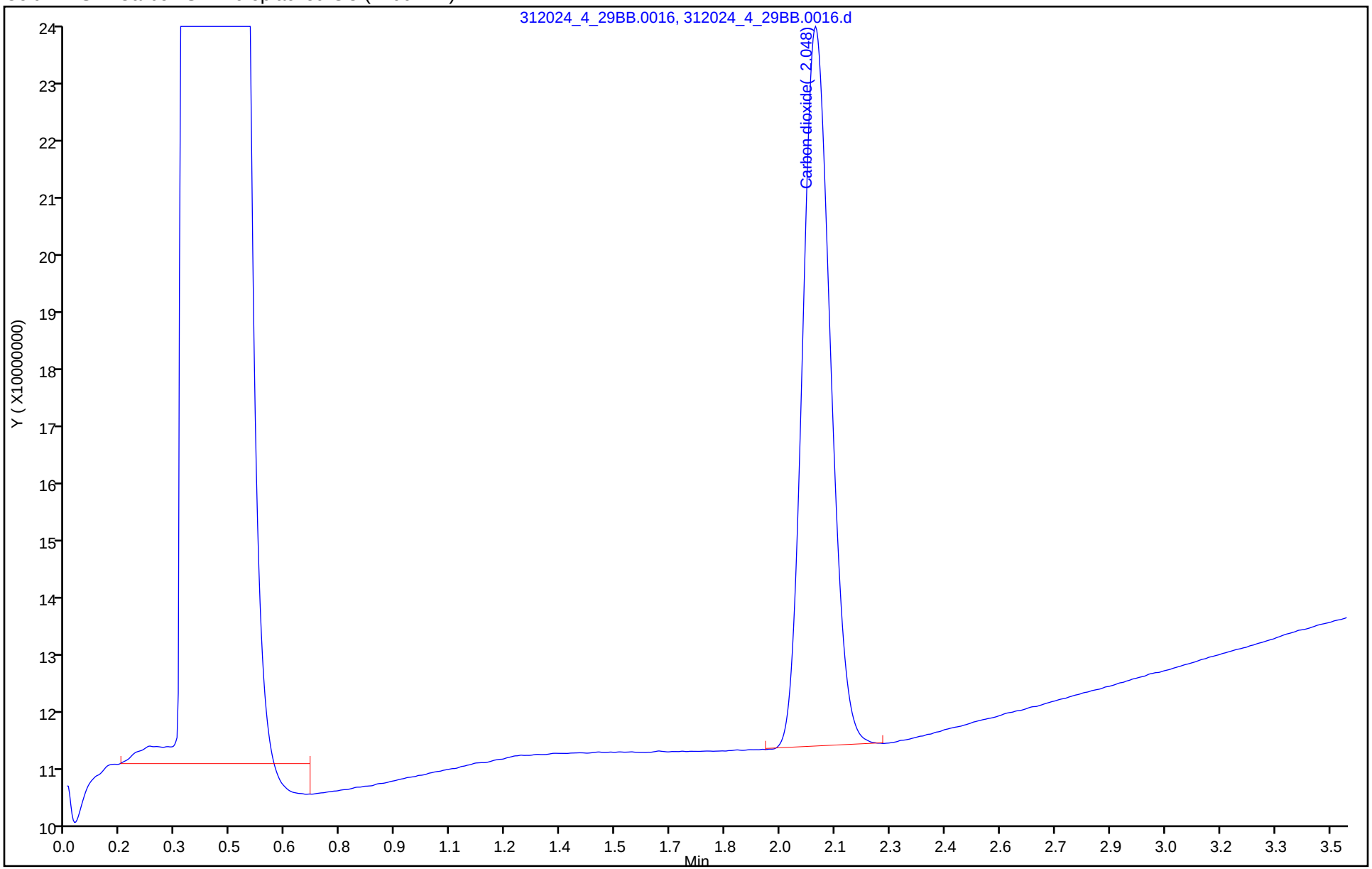
Lims ID: ICV Worklist Smp#: 16

Client ID:

Purge Vol: 1.000 mL Dil. Factor: 1.0000 ALS Bottle#: 0

Method: RSK_CO2_19506B Limit Group: GCV - RSK175 CO2

Column: ShinCarbon ST Microplacked GC (1.00 mm)



FORM VII
GC VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-173670-1

SDG No.:

Lab Sample ID: CCVRT 410-512348/4 Calibration Date: 05/31/2024 10:16

Instrument ID: 19506-B Calib Start Date: 04/29/2024 15:57

GC Column: 19809 ID: 1.00(mm) Calib End Date: 04/29/2024 16:37

Lab File ID: 312024_5_31BB.0004.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	3138	3604		41100	35800	14.8	15.0

FORM VII
GC VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-173670-1

SDG No.:

Lab Sample ID: CCVRT 410-512348/4 Calibration Date: 05/31/2024 10:16

Instrument ID: 19506-B Calib Start Date: 04/29/2024 15:57

GC Column: 19809 ID: 1.00(mm) Calib End Date: 04/29/2024 16:37

Lab File ID: 312024_5_31BB.0004.d Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Carbon dioxide	2.05	2.02	2.08

Eurofins Lancaster Laboratories Environment Testing, LLC

Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19506-B\20240531-115448.b\312024_5_31BB.0004.d
Lims ID: ccvrt
Client ID:
Sample Type: CCVRT
Inject. Date: 31-May-2024 10:16:00 ALS Bottle#: 0 Worklist Smp#: 4
Purge Vol: 1.000 mL Dil. Factor: 1.0000
Sample Info:
Misc. Info.: 410-0115448-004
Operator ID: Instrument ID: 19506-B
Sublist: chrom-RSK_CO2_19506B*sub1

Method: \\chromfs\Lancaster\ChromData\19506-B\20240531-115448.b\RSK_CO2_19506B.m
Limit Group: GCV - RSK175 CO2
Last Update: 03-Jun-2024 03:50:47 Calib Date: 29-Apr-2024 16:37:00
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19506-B\20240429-112494.b\312024_4_29BB.0013.d

Column 1 : ShinCarbon ST Microplacked GC (1.00 mm) Det: 0FIDA
Process Host: CTX1634

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Carbon dioxide	2.051	2.051	0.000	129087489H	35820	41138	

Reagents:

EPH_CO2MS_00006 Amount Added: 100.00 Units: uL

Report Date: 03-Jun-2024 03:50:47 Chrom Revision: 2.3 20-May-2024 22:00:34

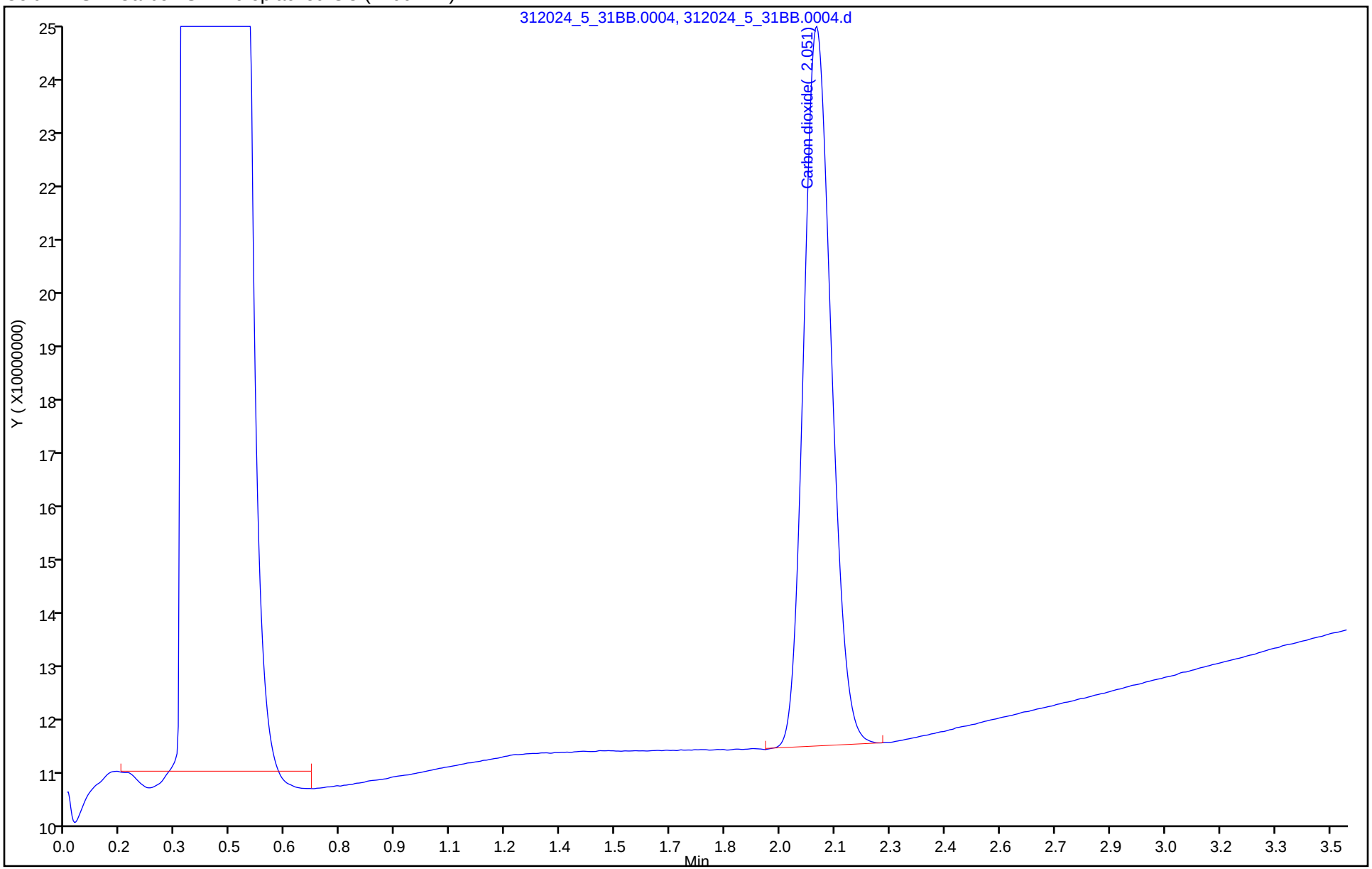
01334797

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19506-B\20240531-115448.b\312024_5_31BB.0004.d

Injection Date:	31-May-2024 10:16:00	Instrument ID:	19506-B	Operator ID:	
Lims ID:	ccvrt			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: ShinCarbon ST Microplacked GC (1.00 mm)



FORM VII
GC VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-173670-1

SDG No.:

Lab Sample ID: CCV 410-512348/15 Calibration Date: 05/31/2024 12:00

Instrument ID: 19506-B Calib Start Date: 04/29/2024 15:57

GC Column: 19809 ID: 1.00(mm) Calib End Date: 04/29/2024 16:37

Lab File ID: 312024_5_31BB.0015.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	3138	3321		37900	35800	5.8	15.0

FORM VII
GC VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-173670-1

SDG No.:

Lab Sample ID: CCV 410-512348/15 Calibration Date: 05/31/2024 12:00

Instrument ID: 19506-B Calib Start Date: 04/29/2024 15:57

GC Column: 19809 ID: 1.00(mm) Calib End Date: 04/29/2024 16:37

Lab File ID: 312024_5_31BB.0015.d Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Carbon dioxide	2.05	2.02	2.08

Eurofins Lancaster Laboratories Environment Testing, LLC

Target Compound Quantitation Report

Data File:	\\chromfs\Lancaster\ChromData\19506-B\20240531-115448.b\312024_5_31BB.0015.d				
Lims ID:	ccv				
Client ID:					
Sample Type:	CCV				
Inject. Date:	31-May-2024 12:00:00	ALS Bottle#:	0	Worklist Smp#:	15
Purge Vol:	1.000 mL	Dil. Factor:	1.0000		
Sample Info:					
Misc. Info.:	410-0115448-015				
Operator ID:		Instrument ID:	19506-B		
Sublist:	chrom-RSK_CO2_19506B*sub1				
Method:	\\chromfs\Lancaster\ChromData\19506-B\20240531-115448.b\RSK_CO2_19506B.m				
Limit Group:	GCV - RSK175 CO2				
Last Update:	03-Jun-2024 03:50:51	Calib Date:	29-Apr-2024 16:37:00		
Integrator:	Genie				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\19506-B\20240429-112494.b\312024_4_29BB.0013.d				
Column 1 :	ShinCarbon ST Microplacked GC (1.00 mm)		Det: 0FIDA		
Process Host:	CTX1634				

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Carbon dioxide	2.049	2.051	-0.002	118940781	H 35820	37905	

Reagents:

EPH_CO2MS_00006 Amount Added: 100.00 Units: uL

Report Date: 03-Jun-2024 03:50:51 Chrom Revision: 2.3 20-May-2024 22:00:34

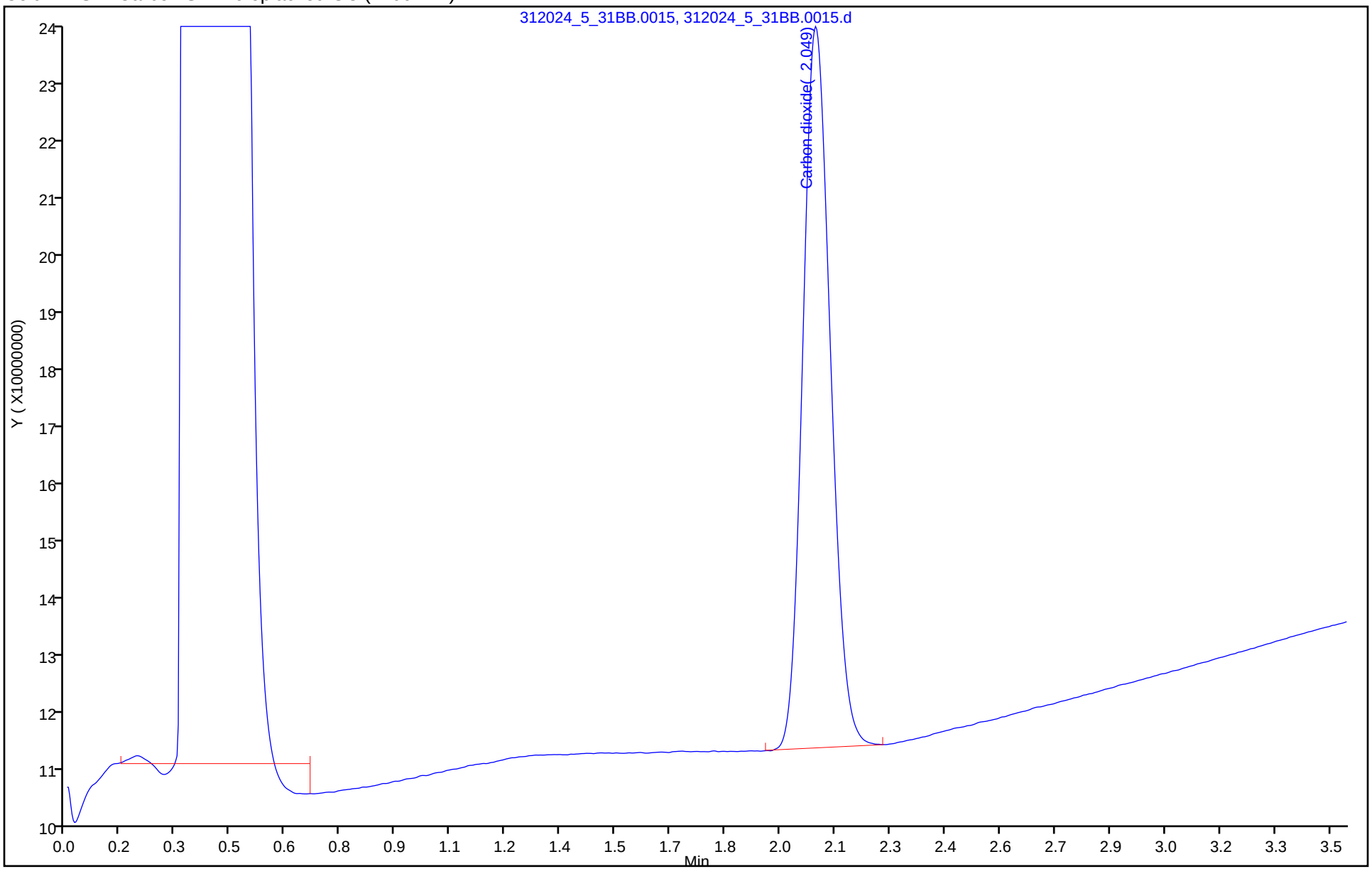
01334801

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19506-B\20240531-115448.b\312024_5_31BB.0015.d

Injection Date:	31-May-2024 12:00:00	Instrument ID:	19506-B	Operator ID:	
Lims ID:	ccv			Worklist Smp#:	15
Client ID:					
Purge Vol:	1.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	RSK_CO2_19506B	Limit Group:	GCV - RSK175 CO2		

Column: ShinCarbon ST Microplacked GC (1.00 mm)



FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-173670-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 410-512401/1-A

Matrix: Water Lab File ID: 312024_5_31BB.0005.d

Analysis Method: RSK-175 Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 05/31/2024 10:34

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: 19809 ID: 1(mm)

Purge Volume: Heated Purge: (Y/N) N pH:

% Moisture: % Solids: Level: (low/med) Low

Analysis Batch No.: 512348 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
124-38-9	Carbon dioxide	5600	U M	12000	11000	5600

Eurofins Lancaster Laboratories Environment Testing, LLC

Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19506-B\20240531-115448.b\312024_5_31BB.0005.d
Lims ID: MB 410-512401/1-A
Client ID:
Sample Type: MB
Inject. Date: 31-May-2024 10:34:00 ALS Bottle#: 0 Worklist Smp#: 5
Purge Vol: 1.000 mL Dil. Factor: 1.0000
Sample Info:
Misc. Info.: 410-0115448-005
Operator ID: Instrument ID: 19506-B

Method: \\chromfs\Lancaster\ChromData\19506-B\20240531-115448.b\RSK_CO2_19506B.m
Limit Group: GCV - RSK175 CO2
Last Update: 03-Jun-2024 03:50:47 Calib Date: 29-Apr-2024 16:37:00
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19506-B\20240429-112494.b\312024_4_29BB.0013.d

Column 1 : ShinCarbon ST Microplacked GC (1.00 mm) Det: 0FIDA
Process Host: CTX1634

First Level Reviewer: LXF2 Date: 03-Jun-2024 03:50:00

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Carbon dioxide	2.070	2.051	0.019	319274H		101.7	Ma

QC Flag Legend

Processing Flags
H - Response Measured by Height
Review Flags
M - Manually Integrated
a - User Assigned ID

Report Date: 03-Jun-2024 03:50:48 Chrom Revision: 2.3 20-May-2024 22:00:34

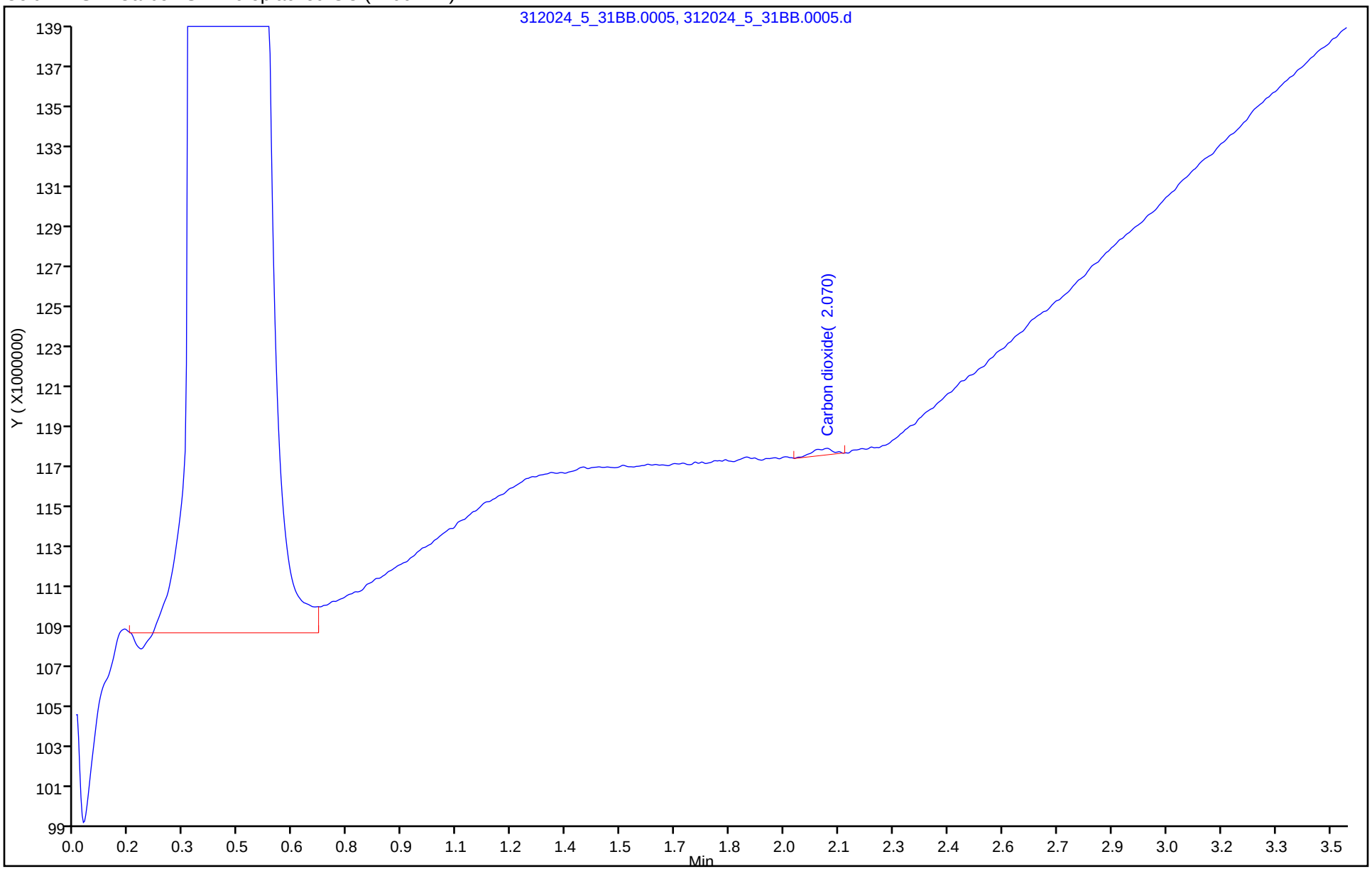
01334804

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19506-B\20240531-115448.b\312024_5_31BB.0005.d

Injection Date:	31-May-2024 10:34:00	Instrument ID:	19506-B	Operator ID:	
Lims ID:	MB 410-512401/1-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: ShinCarbon ST Microplacked GC (1.00 mm)



Eurofins Lancaster Laboratories Environment Testing, LLC

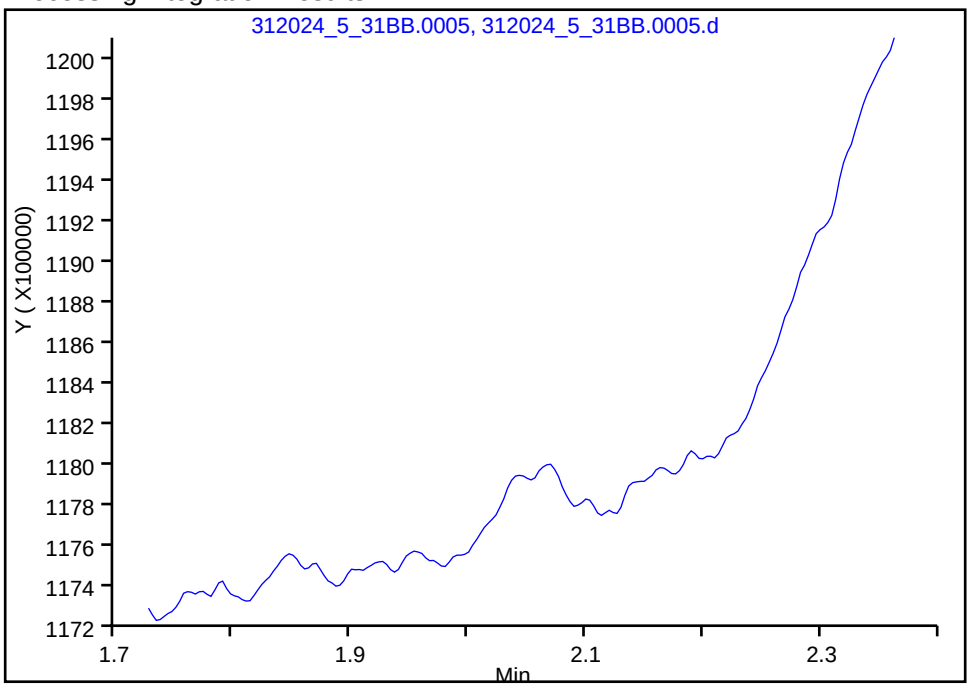
Data File: \\chromfs\Lancaster\ChromData\19506-B\20240531-115448.b\312024_5_31BB.0005.d
Injection Date: 31-May-2024 10:34:00 Instrument ID: 19506-B
Lims ID: MB 410-512401/1-A
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 5
Purge Vol: 1.000 mL Dil. Factor: 1.0000
Method: RSK_CO2_19506B Limit Group: GCV - RSK175 CO2
Column: ShinCarbon ST Microplacked GC (1.00 mm) Detector 0FIDA

1 Carbon dioxide, CAS: 124-38-9

Signal: 1

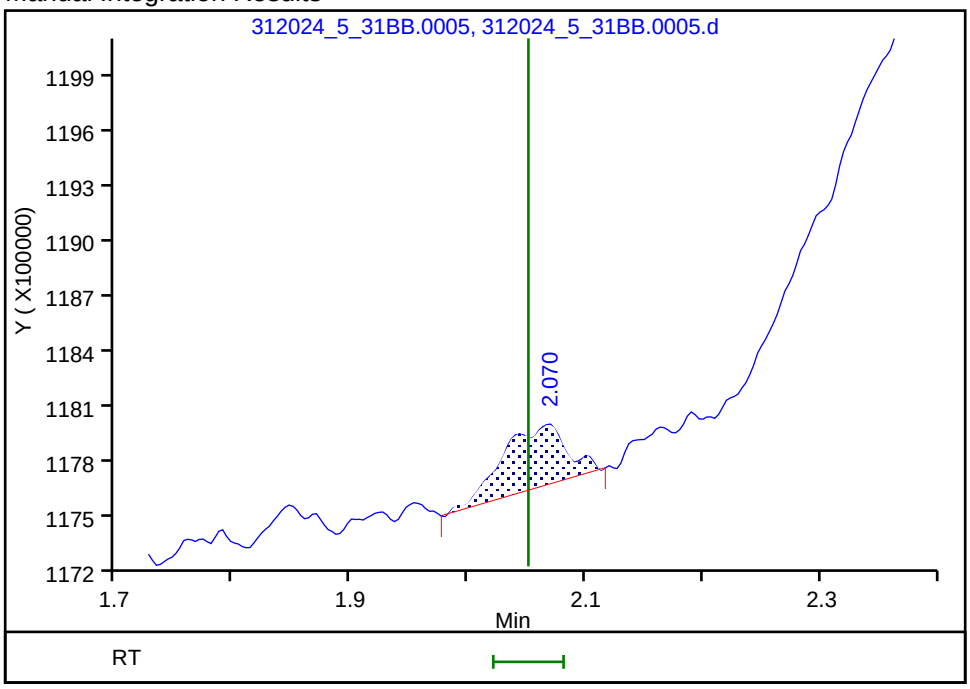
Not Detected
Expected RT: 2.05

Processing Integration Results



Manual Integration Results

RT: 2.07
Height: 319274
Amount: 101.7476
Amount Units: ug/l



Reviewer: LXF2, 03-Jun-2024 03:49:58 -04:00:00 (UTC)
Audit Action: Manually Integrated/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.: 410-173670-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 410-512401/2-A

Matrix: Water Lab File ID: 312024_5_31BB.0006.d

Analysis Method: RSK-175 Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 05/31/2024 10:42

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: 19809 ID: 1(mm)

Purge Volume: Heated Purge: (Y/N) N pH:

% Moisture: % Solids: Level: (low/med) Low

Analysis Batch No.: 512348 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
124-38-9	Carbon dioxide	38800		12000	11000	5600

Eurofins Lancaster Laboratories Environment Testing, LLC

Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19506-B\20240531-115448.b\312024_5_31BB.0006.d
Lims ID: LCS 410-512401/2-A
Client ID:
Sample Type: LCS
Inject. Date: 31-May-2024 10:42:00 ALS Bottle#: 0 Worklist Smp#: 6
Purge Vol: 1.000 mL Dil. Factor: 1.0000
Sample Info:
Misc. Info.: 410-0115448-006
Operator ID: Instrument ID: 19506-B

Method: \\chromfs\Lancaster\ChromData\19506-B\20240531-115448.b\RSK_CO2_19506B.m
Limit Group: GCV - RSK175 CO2
Last Update: 03-Jun-2024 03:50:47 Calib Date: 29-Apr-2024 16:37:00
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19506-B\20240429-112494.b\312024_4_29BB.0013.d

Column 1 : ShinCarbon ST Microplacked GC (1.00 mm) Det: 0FIDA
Process Host: CTX1634

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Carbon dioxide	2.051	2.051	0.000	121792013	H 35820	38813	

Report Date: 03-Jun-2024 03:50:48 Chrom Revision: 2.3 20-May-2024 22:00:34

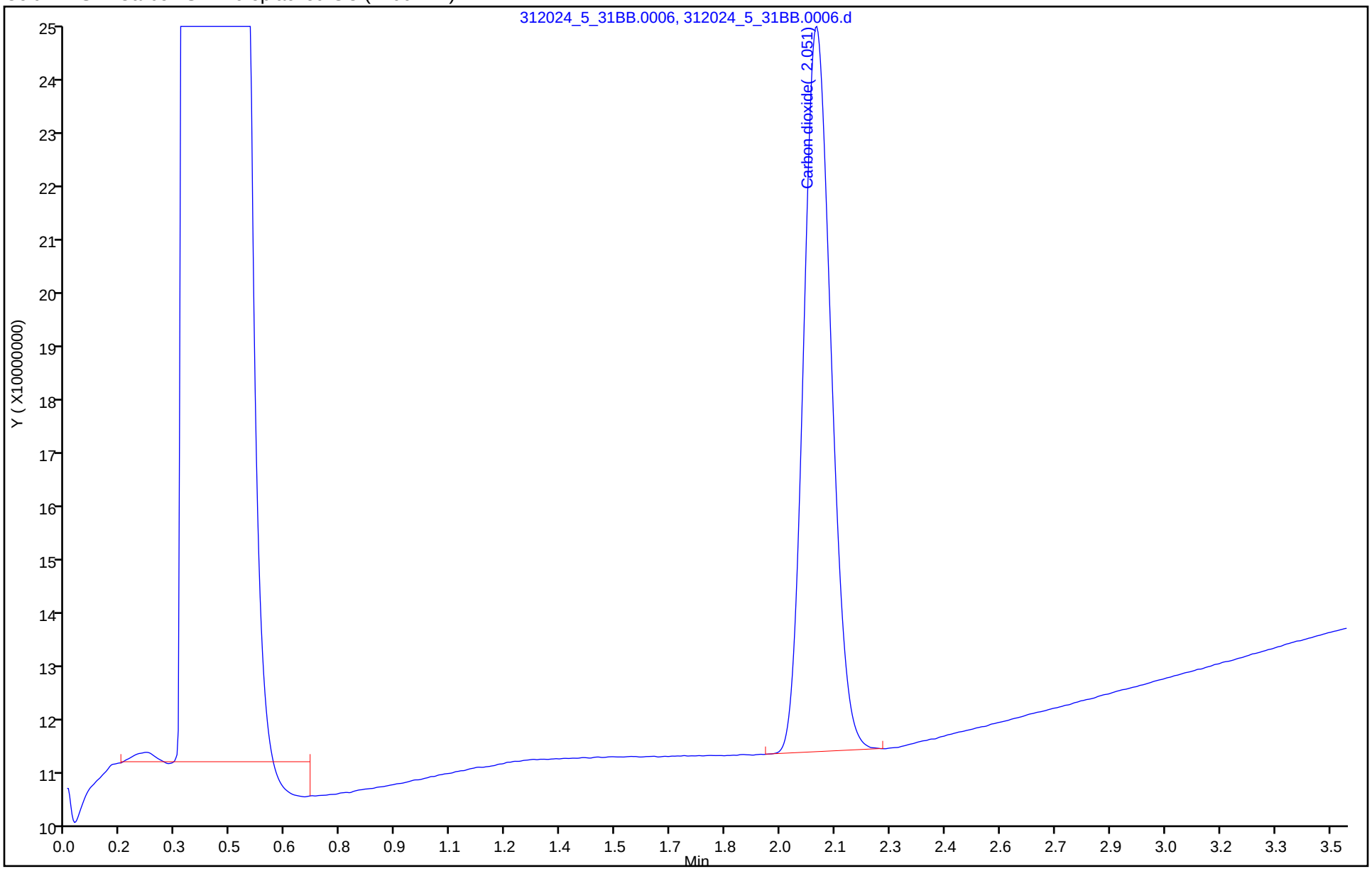
01334808

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19506-B\20240531-115448.b\312024_5_31BB.0006.d

Injection Date:	31-May-2024 10:42:00	Instrument ID:	19506-B	Operator ID:	
Lims ID:	LCS 410-512401/2-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: ShinCarbon ST Microplacked GC (1.00 mm)



FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-173670-1

SDG No.:

Client Sample ID: Lab Sample ID: LCSD 410-512401/3-A

Matrix: Water Lab File ID: 312024_5_31BB.0007.d

Analysis Method: RSK-175 Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 05/31/2024 10:50

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: 19809 ID: 1(mm)

Purge Volume: Heated Purge: (Y/N) N pH:

% Moisture: % Solids: Level: (low/med) Low

Analysis Batch No.: 512348 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
124-38-9	Carbon dioxide	39600		12000	11000	5600

Eurofins Lancaster Laboratories Environment Testing, LLC

Target Compound Quantitation Report

Data File:	\\chromfs\Lancaster\ChromData\19506-B\20240531-115448.b\312024_5_31BB.0007.d				
Lims ID:	LCSD 410-512401/3-A				
Client ID:					
Sample Type:	LCSD				
Inject. Date:	31-May-2024 10:50:00	ALS Bottle#:	0	Worklist Smp#:	7
Purge Vol:	1.000 mL	Dil. Factor:	1.0000		
Sample Info:					
Misc. Info.:	410-0115448-007				
Operator ID:		Instrument ID:	19506-B		
Method:	\\chromfs\Lancaster\ChromData\19506-B\20240531-115448.b\RSK_CO2_19506B.m				
Limit Group:	GCV - RSK175 CO2				
Last Update:	03-Jun-2024 03:50:47	Calib Date:	29-Apr-2024 16:37:00		
Integrator:	Genie				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\19506-B\20240429-112494.b\312024_4_29BB.0013.d				
Column 1 :	ShinCarbon ST Microplacked GC (1.00 mm)		Det: 0FIDA		
Process Host:	CTX1634				

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Carbon dioxide	2.051	2.051	0.000	124282893	H 35820	39607	

Report Date: 03-Jun-2024 03:50:48 Chrom Revision: 2.3 20-May-2024 22:00:34

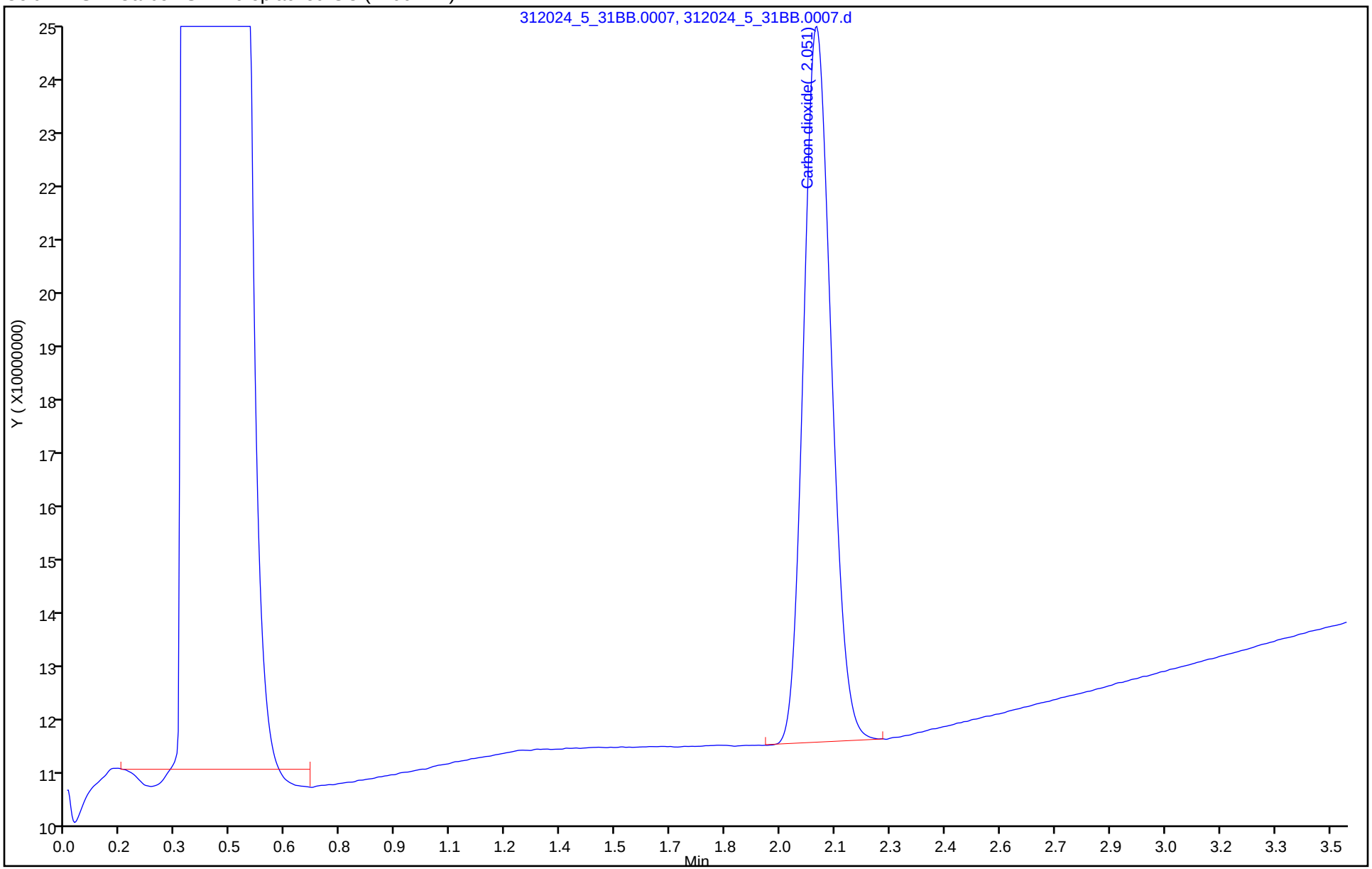
01334811

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19506-B\20240531-115448.b\312024_5_31BB.0007.d

Injection Date:	31-May-2024 10:50:00	Instrument ID:	19506-B	Operator ID:	
Lims ID:	LCSD 410-512401/3-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: ShinCarbon ST Microplacked GC (1.00 mm)



GC VOA ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-173670-1

SDG No.:

Instrument ID: 19506-B Start Date: 04/29/2024 15:50

Analysis Batch Number: 499750 End Date: 04/29/2024 18:35

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
PIBLK 410-499750/7		04/29/2024 15:50	1		19809 1(mm)
IC 410-499750/8		04/29/2024 15:57	1	312024_4_29BB.0008.d	19809 1(mm)
IC 410-499750/9		04/29/2024 16:06	1	312024_4_29BB.0009.d	19809 1(mm)
ICRT 410-499750/10		04/29/2024 16:13	1	312024_4_29BB.0010.d	19809 1(mm)
IC 410-499750/11		04/29/2024 16:21	1	312024_4_29BB.0011.d	19809 1(mm)
IC 410-499750/12		04/29/2024 16:29	1	312024_4_29BB.0012.d	19809 1(mm)
IC 410-499750/13		04/29/2024 16:37	1	312024_4_29BB.0013.d	19809 1(mm)
PIBLK 410-499750/14		04/29/2024 16:45	1		19809 1(mm)
ICVL 410-499750/15		04/29/2024 16:53	1		19809 1(mm)
ICV 410-499750/16		04/29/2024 17:01	1	312024_4_29BB.0016.d	19809 1(mm)
CCV 410-499750/17		04/29/2024 17:09	1		19809 1(mm)
ZZZZZ		04/29/2024 17:17	1		19809 1(mm)
ZZZZZ		04/29/2024 17:24	1		19809 1(mm)
ZZZZZ		04/29/2024 17:32	1		19809 1(mm)
CCV 410-499750/28		04/29/2024 18:35	1		19809 1(mm)

GC VOA ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-173670-1

SDG No.:

Instrument ID: 19506-B Start Date: 05/31/2024 10:16

Analysis Batch Number: 512348 End Date: 05/31/2024 13:06

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCVRT 410-512348/4		05/31/2024 10:16	1	312024_5_31BB.0004.d	19809 1(mm)
MB 410-512401/1-A		05/31/2024 10:34	1	312024_5_31BB.0005.d	19809 1(mm)
LCS 410-512401/2-A		05/31/2024 10:42	1	312024_5_31BB.0006.d	19809 1(mm)
LCSD 410-512401/3-A		05/31/2024 10:50	1	312024_5_31BB.0007.d	19809 1(mm)
ZZZZZ		05/31/2024 11:06	1		19809 1(mm)
ZZZZZ		05/31/2024 11:13	1		19809 1(mm)
ZZZZZ		05/31/2024 11:21	1		19809 1(mm)
410-173670-1	50WW12_052224	05/31/2024 11:29	1	312024_5_31BB.0011.d	19809 1(mm)
410-173670-2	50WW12_052224_a	05/31/2024 11:36	1	312024_5_31BB.0012.d	19809 1(mm)
410-173670-3	50WW06_052224	05/31/2024 11:44	1	312024_5_31BB.0013.d	19809 1(mm)
410-173670-4	50WW06_052224_a	05/31/2024 11:52	1	312024_5_31BB.0014.d	19809 1(mm)
CCV 410-512348/15		05/31/2024 12:00	1	312024_5_31BB.0015.d	19809 1(mm)
ZZZZZ		05/31/2024 12:20	1		19809 1(mm)
ZZZZZ		05/31/2024 12:27	1		19809 1(mm)
ZZZZZ		05/31/2024 12:35	1		19809 1(mm)
ZZZZZ		05/31/2024 12:43	1		19809 1(mm)
ZZZZZ		05/31/2024 12:50	1		19809 1(mm)
ZZZZZ		05/31/2024 12:58	1		19809 1(mm)
CCV 410-512348/22		05/31/2024 13:06	1		19809 1(mm)

GC VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-173670-1

SDG No.:

Batch Number: 499750 Batch Start Date: 04/29/24 15:50 Batch Analyst: Kennedy, Johanna C

Batch Method: RSK-175 Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	InitialAmount	FinalAmount	EPH_CO2ICV 00003	EPH_CO2MS 00006		
IC 410-499750/8		RSK-175			5 mL	5 mL		30 uL		
IC 410-499750/9		RSK-175			5 mL	5 mL		60 uL		
ICRT 410-499750/10		RSK-175			5 mL	5 mL		100 uL		
IC 410-499750/11		RSK-175			5 mL	5 mL		250 uL		
IC 410-499750/12		RSK-175			5 mL	5 mL		500 uL		
IC 410-499750/13		RSK-175			5 mL	5 mL		1000 uL		
ICV 410-499750/16		RSK-175			5 mL	5 mL	320 uL			

Batch Notes	
Henry Law Calculation Spreadsheet	yes

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.: 410-173670-1

SDG No.:

Batch Number: 512401 Batch Start Date: 05/31/24 10:23 Batch Analyst: Omorogbe, Malachi

Batch Method: RSK-175 Batch End Date: 05/31/24 10:56

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	Initial pH	InitialAmount	FinalAmount	Headspace	EPH_CO2MS 00006	AnalysisComment
MB 410-512401/1		RSK-175, RSK-175				5 mL	5 mL			
LCS 410-512401/2		RSK-175, RSK-175				5 mL	5 mL		0.1 mL	
LCSD 410-512401/3		RSK-175, RSK-175				5 mL	5 mL		0.1 mL	
410-173670-A-1	50WW12_052224	RSK-175, RSK-175	Water	T	6 SU	5 mL	5 mL	No		ph 6
410-173670-A-2	50WW12_052224_a	RSK-175, RSK-175	Water	T	6 SU	5 mL	5 mL	No		ph 6
410-173670-A-3	50WW06_052224	RSK-175, RSK-175	Water	T	6 SU	5 mL	5 mL	No		ph 6
410-173670-A-4	50WW06_052224_a	RSK-175, RSK-175	Water	T	6 SU	5 mL	5 mL	No		ph 6

Batch Notes	
Pipette/Syringe/Dispenser ID	7105
pH Indicator ID	10BDH5131

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

410-173670-01 Chain of Custody

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:** **25793**

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:	Luis.Aguilar
Address:	10450 Stancliff Rd, Ste 210
Phone:	+1 281 530 5656
Email:	luis.aguilar@alsglobal.com
Alternate Contact:	
Email:	

INVOICE INFORMATION:

Company:	ALS Houston
Contact:	Accounts Payable
Address:	10450 Stancliff Rd, Ste 210
Phone:	+1 281 530 5656
Reference:	HS24051490
TSR:	Ron Martino

	LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	COLLECT DATE
	ANALYSIS REQUESTED			DUE DATE
1.	**HS24051490-04**	**50WW12_052224**	**Water**	**22 May 2024 09:25**
	RSK175 CO2; LHAAP; DoD Level IV, LHAAP EQUIS EDD			10 Jun 2024
2.	**HS24051490-05**	**50WW12_052224_a**	**Water**	**22 May 2024 09:25**
	RSK175 CO2; LHAAP; DoD Level IV, LHAAP EQUIS EDD			10 Jun 2024
3.	**HS24051490-06**	**50WW06_052224**	**Water**	**22 May 2024 10:20**
	RSK175 CO2; LHAAP; DoD Level IV, LHAAP EQUIS EDD			10 Jun 2024
4.	**HS24051490-07**	**50WW06_052224_a**	**Water**	**22 May 2024 10:20**
	RSK175 CO2; LHAAP; DoD Level IV, LHAAP EQUIS EDD			10 Jun 2024

Comments: Please analyze for the analysis listed above.
Send report to the emails shown above.

QC Level: DOD IV (DoD Data Package)

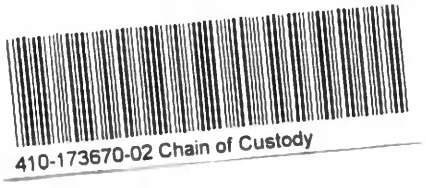
Relinquished By: AM Date/Time: 5/28/24 18:00

Received By: Date/Time: 5/29/24 1030

Cooler ID(s): Temperature(s):

RIGHT SOLUTIONS | RIGHT PARTNER

Raw 4.5 - COR 4.6



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

Purchase Order

PO: HS24051490

VENDOR:

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

Phone: +1 717 656 2300

CUSTOMER INFORMATION:

Company:	ALS Houston
Contact:	Luis.Aguilar
Address:	10450 Stancliff Rd, Ste 210
Phone:	+1 281 530 5656
Email:	luis.aguilar@alsglobal.com
Alternate Contact:	
Email:	

INVOICE INFORMATION:

Company:	ALS Houston
Contact:	Accounts Payable
Address:	10450 Stancliff Rd, Ste 210
Phone:	+1 281 530 5656
Reference:	25793
TSR:	Ron Martino

Item	Catalog No	Unit Price	Quantity	Ext Price
1. RSK175 CO2; LHAAP; DoD Level IV, LHAAP EQUIS EDD	NA		4	

Order Total:

Login Sample Receipt Checklist

Client: ALS Group USA, Corp

Job Number: 410-173670-1

Login Number: 173670
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 acceptable,where thermal pres is required(</=6C, not frozen).	True	
Cooler Temperature is recorded.	True	
WV:Container Temp acceptable,where thermal pres is required (</=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	