

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050625\
 Data File : VL042488.D
 Acq On : 06 May 2025 09:49
 Operator : SY/MD
 Sample : VL0506ABL01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0506ABL01

Quant Time: May 07 01:36:30 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri May 02 03:16:31 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

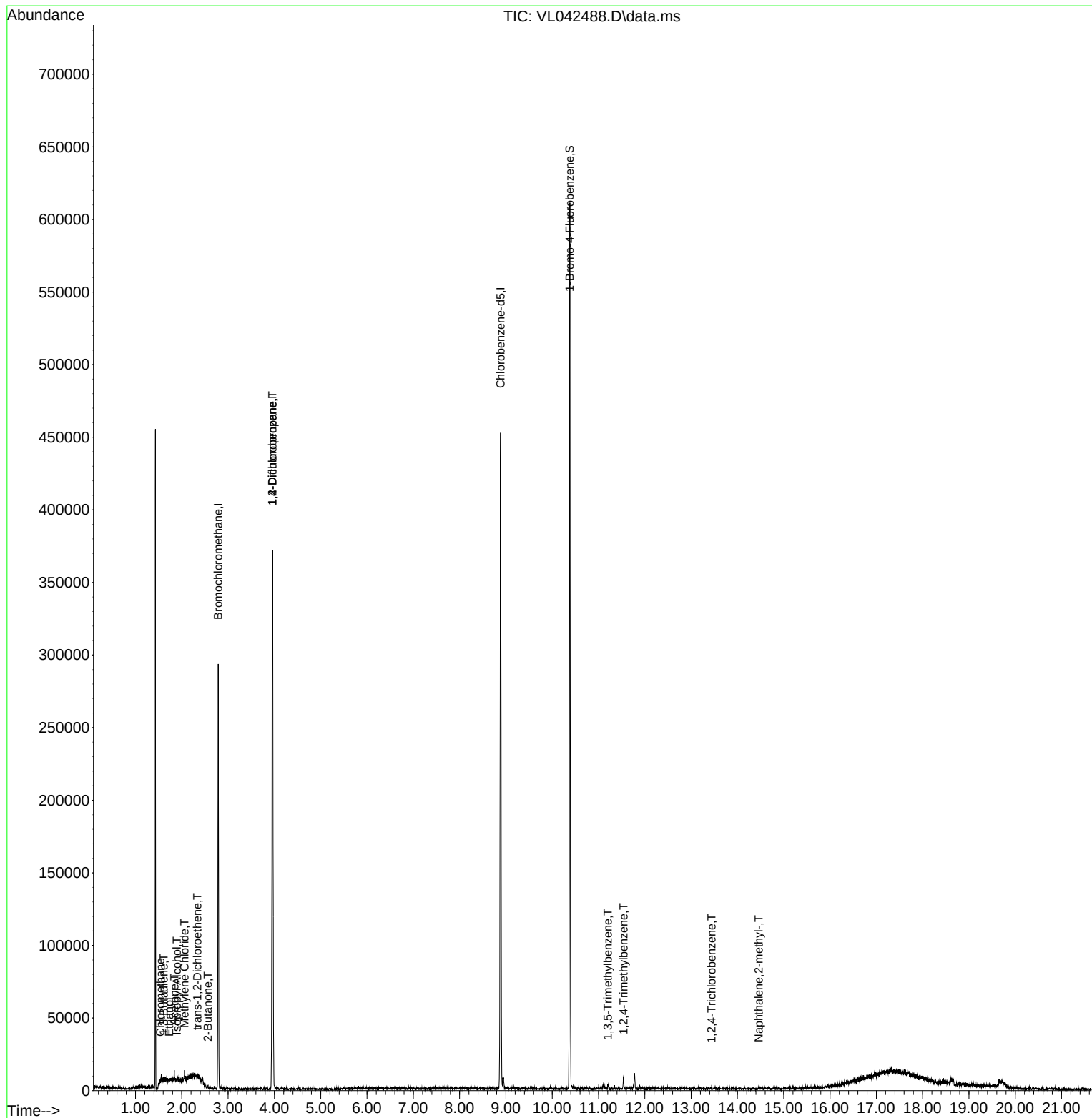
Internal Standards						
1) Bromochloromethane	2.787	49	71766	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.959	114	194806	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.885	117	158449	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.380	95	146316	9.960	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.600%
Target Compounds						
					Qvalue	
4) Chloromethane	1.538	50	212	0.043	ppbv #	45
13) Ethanol	1.725	45	79	0.095	ppbv #	1
15) Acetone	1.839	43	2436	0.186	ppbv #	78
16) 1,3-Butadiene	1.609	39	388	0.067	ppbv #	15
19) Isopropyl Alcohol	1.891	45	1003	0.138	ppbv #	94
20) Methylene Chloride	2.059	84	860	0.218	ppbv #	56
22) trans-1,2-Dichloroethene	2.337	96	154	0.032	ppbv #	2
34) 2-Butanone	2.564	43	680	0.048	ppbv #	89
39) 1,2-Dichloropropane	3.959	63	56749	8.246	ppbv #	20
73) 1,3,5-Trimethylbenzene	11.202	105	913	0.040	ppbv #	73
74) 1,2,4-Trimethylbenzene	11.539	105	2419	0.087	ppbv #	52
80) Naphthalene,2-methyl-	14.458	142	408	0.023	ppbv #	50
81) 1,2,4-Trichlorobenzene	13.442	180	301	0.024	ppbv #	69

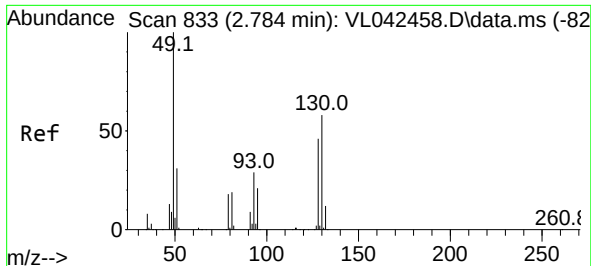
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
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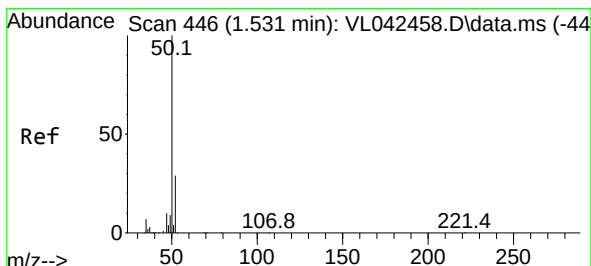
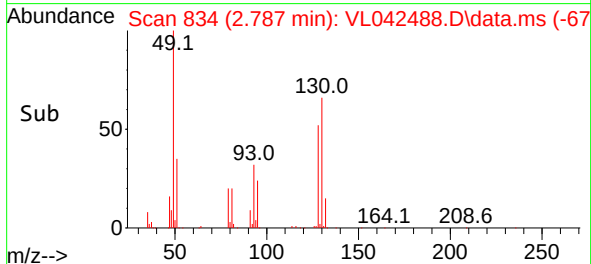
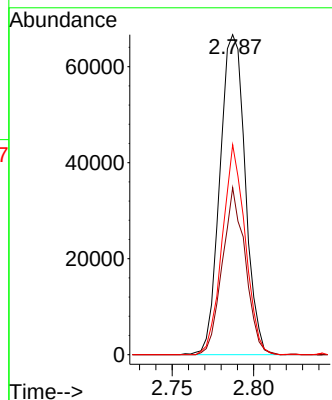
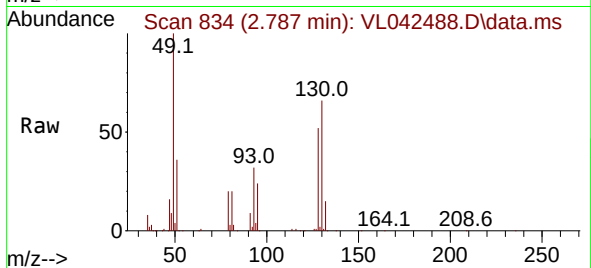




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 81
Delta R.T. 0.003 min
Lab File: VL042488.D
Acq: 06 May 2025 09:49

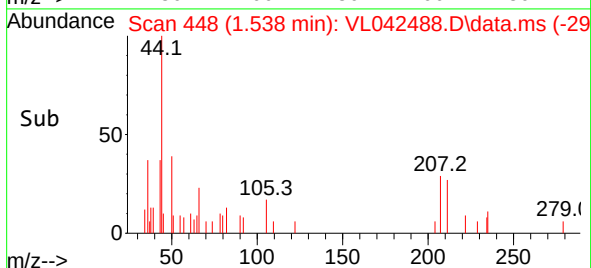
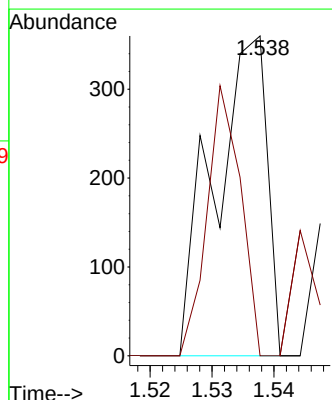
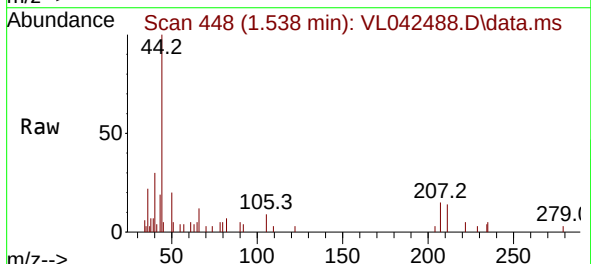
Instrument :
MSVOA_1
ClientSampleId :
VL0506ABL01

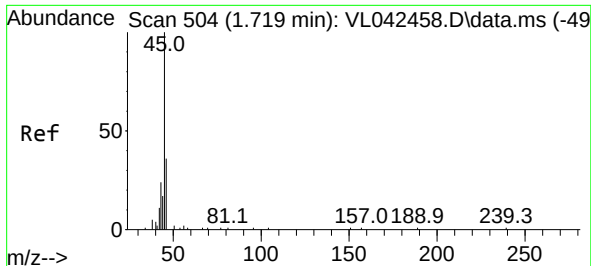
Tgt Ion: 49 Resp: 71766
Ion Ratio Lower Upper
49 100
128 47.5 23.3 69.9
130 59.6 29.5 88.6



#4
Chloromethane
Concen: 0.043 ppbv
RT: 1.538 min Scan# 448
Delta R.T. 0.007 min
Lab File: VL042488.D
Acq: 06 May 2025 09:49

Tgt Ion: 50 Resp: 212
Ion Ratio Lower Upper
50 100
52 0.0 23.5 35.3#





#13

Ethanol

Concen: 0.095 ppbv

RT: 1.725 min Scan# 50

Delta R.T. 0.007 min

Lab File: VL042488.D

Acq: 06 May 2025 09:49

Instrument :

MSVOA_L

ClientSampleId :

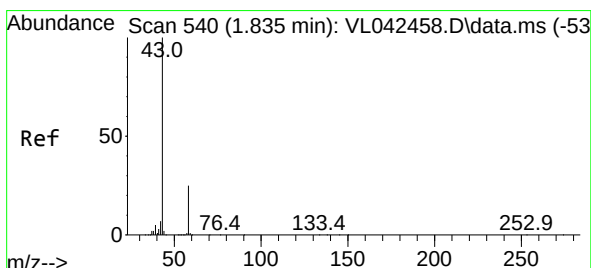
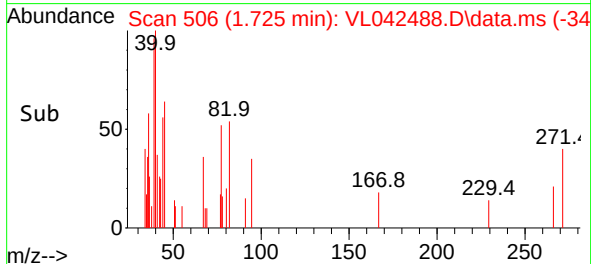
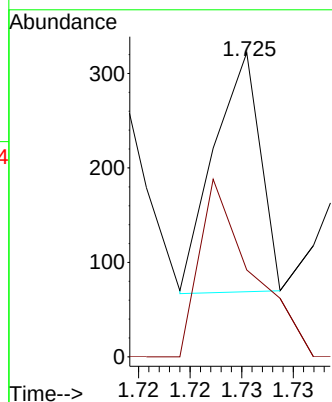
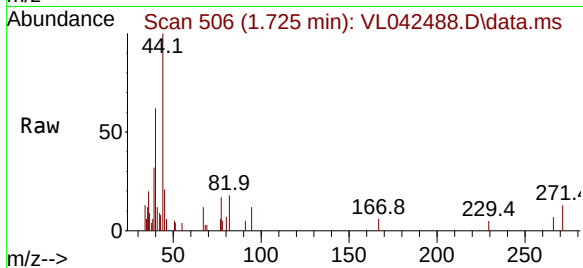
VL0506ABL01

Tgt Ion: 45 Resp: 79

Ion Ratio Lower Upper

45 100

46 110.1 15.3 61.1#



#15

Acetone

Concen: 0.186 ppbv

RT: 1.839 min Scan# 541

Delta R.T. 0.003 min

Lab File: VL042488.D

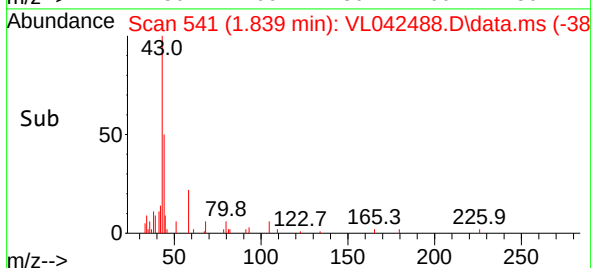
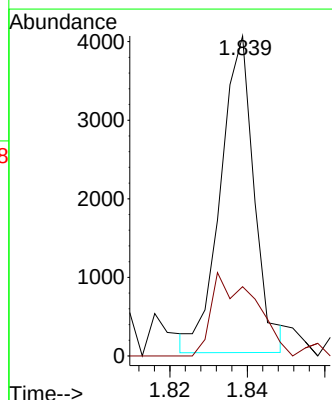
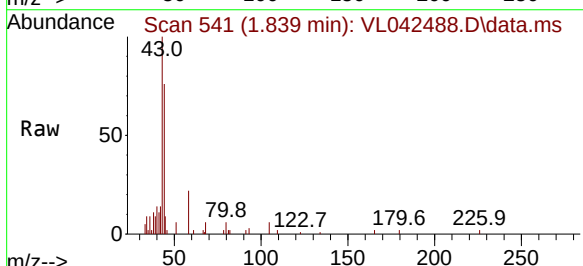
Acq: 06 May 2025 09:49

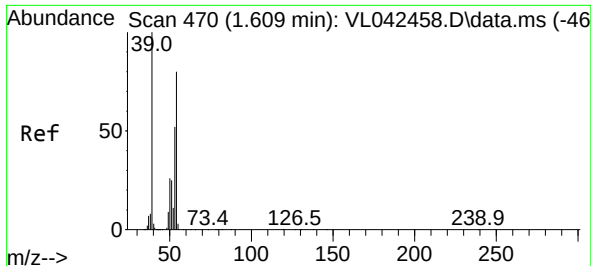
Tgt Ion: 43 Resp: 2436

Ion Ratio Lower Upper

43 100

58 36.0 19.8 29.8#





#16

1,3-Butadiene

Concen: 0.067 ppbv

RT: 1.609 min Scan# 41

Delta R.T. 0.000 min

Lab File: VL042488.D

Acq: 06 May 2025 09:49

Instrument :

MSVOA_L

ClientSampleId :

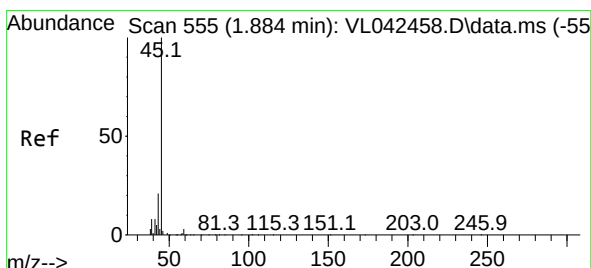
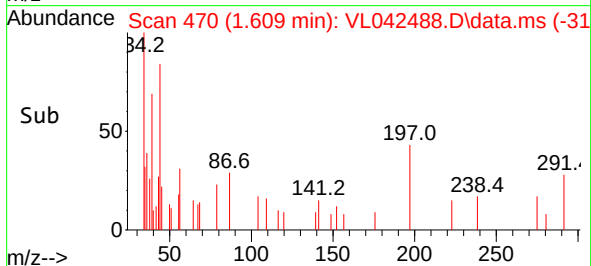
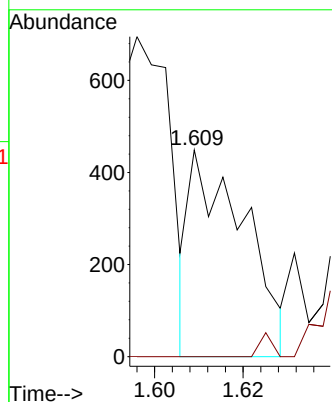
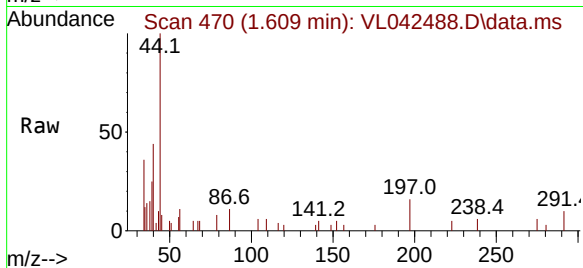
VL0506ABL01

Tgt Ion: 39 Resp: 388

Ion Ratio Lower Upper

39 100

54 0.0 55.2 82.8#



#19

Isopropyl Alcohol

Concen: 0.138 ppbv

RT: 1.891 min Scan# 557

Delta R.T. 0.007 min

Lab File: VL042488.D

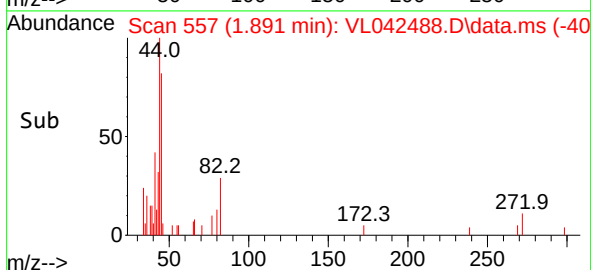
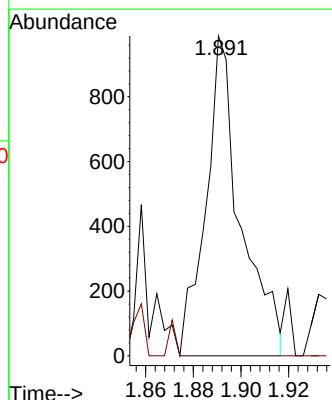
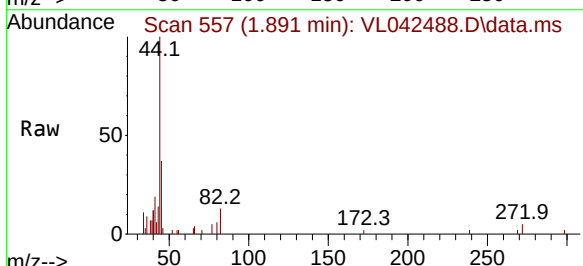
Acq: 06 May 2025 09:49

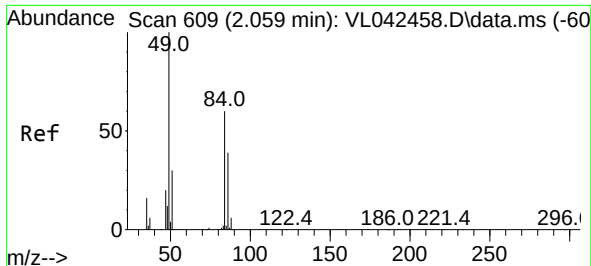
Tgt Ion: 45 Resp: 1003

Ion Ratio Lower Upper

45 100

58 0.0 1.6 2.4#

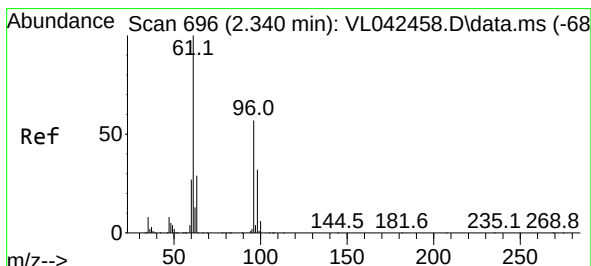
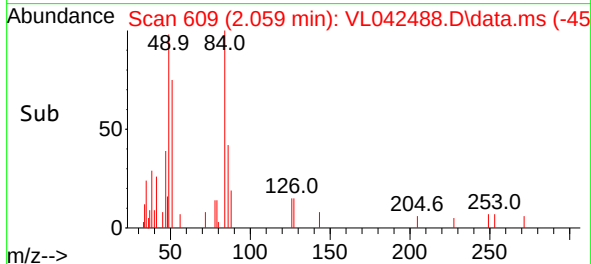
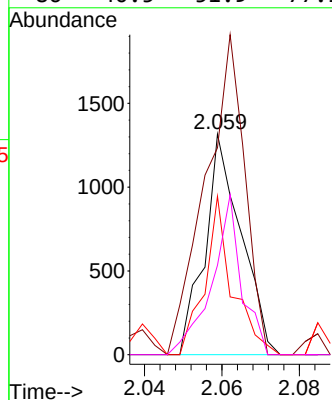
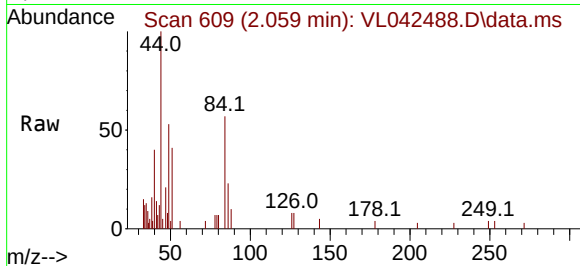




#20
Methylene Chloride
Concen: 0.218 ppbv
RT: 2.059 min Scan# 609
Delta R.T. 0.000 min
Lab File: VL042488.D
Acq: 06 May 2025 09:49

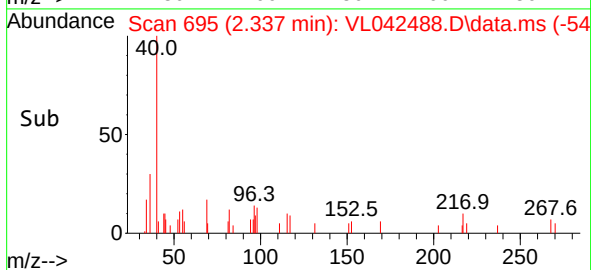
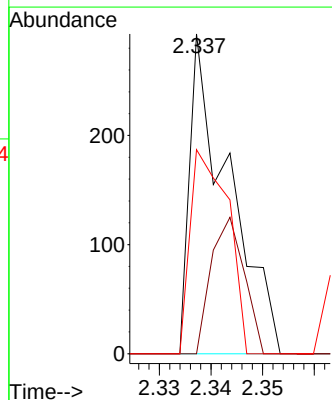
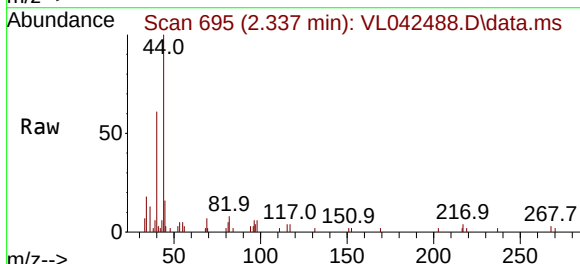
Instrument :
MSVOA_1
ClientSampleId :
VL0506ABL01

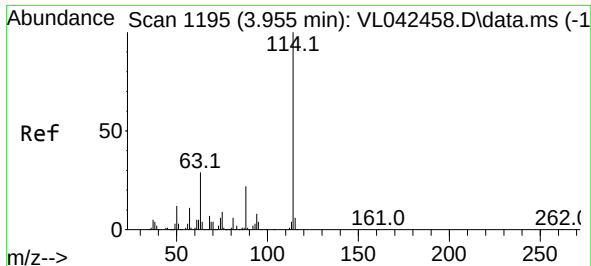
Tgt Ion: 84	Resp:	860
Ion	Ratio	Lower Upper
84	100	
49	93.8	133.9 200.9#
51	71.8	41.0 61.6#
86	40.5	51.9 77.9#



#22
trans-1,2-Dichloroethene
Concen: 0.032 ppbv
RT: 2.337 min Scan# 695
Delta R.T. -0.003 min
Lab File: VL042488.D
Acq: 06 May 2025 09:49

Tgt Ion: 96	Resp:	154	
Ion	Ratio	Lower	Upper
96	100		
61	0.0	141.8	212.6#
98	63.8	45.0	67.6





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.959 min Scan# 1196

Delta R.T. 0.003 min

Lab File: VL042488.D

Acq: 06 May 2025 09:49

Instrument :

MSVOA_L

ClientSampleId :

VL0506ABL01

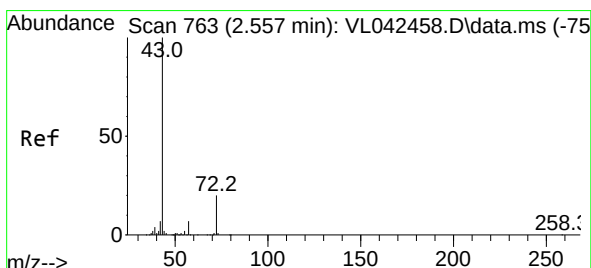
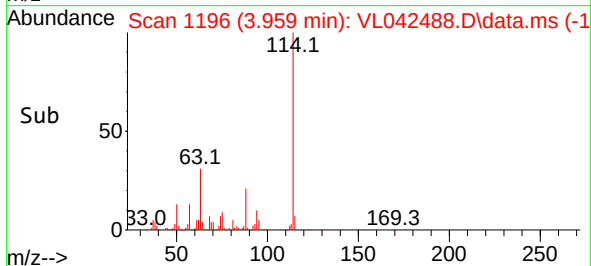
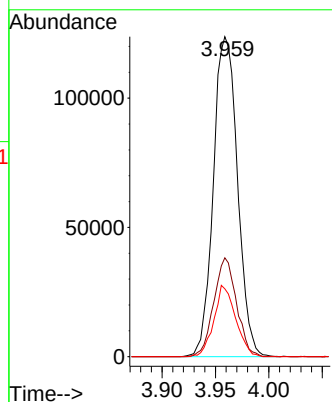
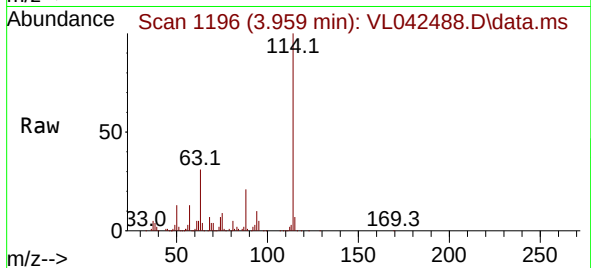
Tgt Ion:114 Resp: 194806

Ion Ratio Lower Upper

114 100

63 29.2 23.1 34.7

88 20.1 16.1 24.1



#34

2-Butanone

Concen: 0.048 ppbv

RT: 2.564 min Scan# 765

Delta R.T. 0.007 min

Lab File: VL042488.D

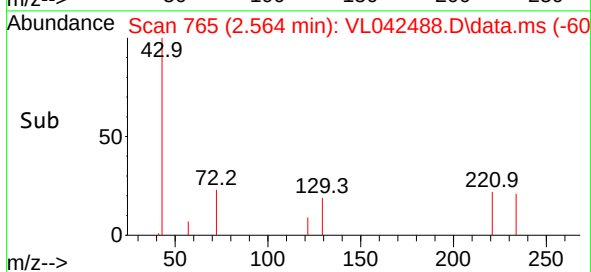
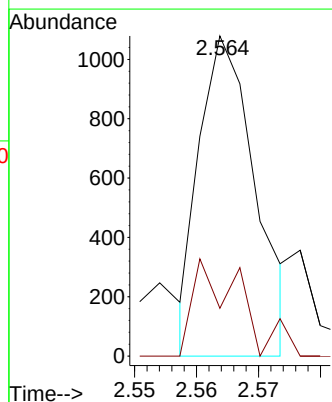
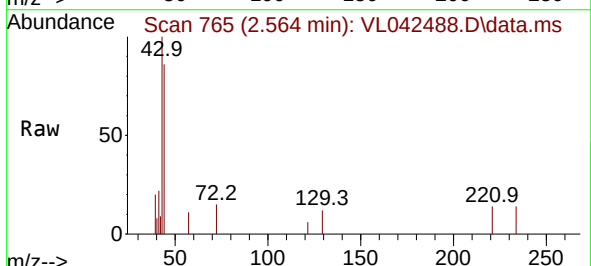
Acq: 06 May 2025 09:49

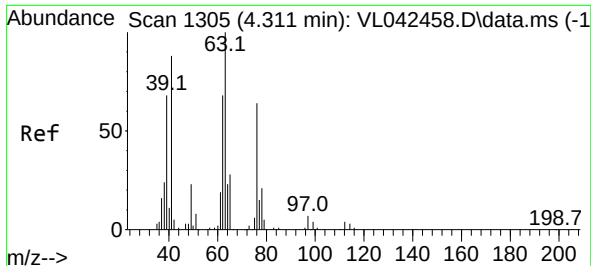
Tgt Ion: 43 Resp: 680

Ion Ratio Lower Upper

43 100

72 26.0 16.7 25.1#





#39

1,2-Dichloropropane

Concen: 8.246 ppbv

RT: 3.959 min Scan# 1196

Delta R.T. -0.353 min

Lab File: VL042488.D

Acq: 06 May 2025 09:49

Instrument :

MSVOA_L

ClientSampleId :

VL0506ABL01

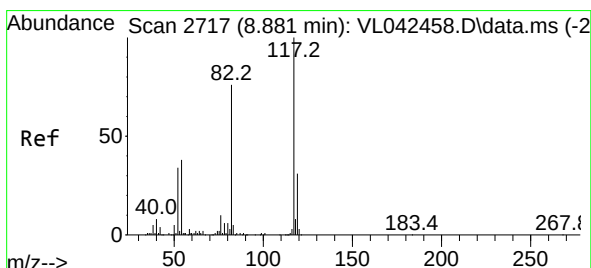
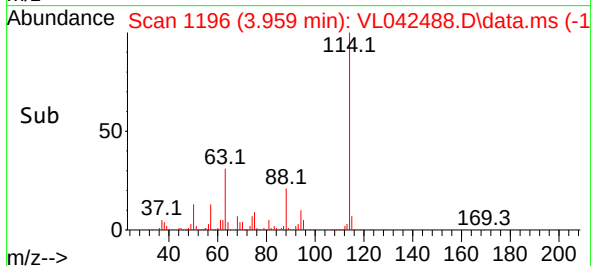
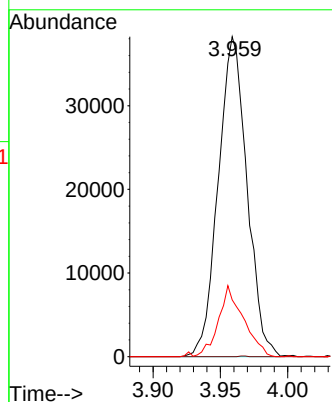
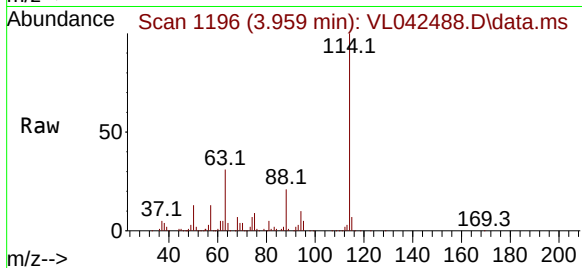
Tgt Ion: 63 Resp: 56749

Ion Ratio Lower Upper

63 100

41 0.0 69.8 104.6#

62 17.8 54.3 81.5#



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.885 min Scan# 2718

Delta R.T. 0.003 min

Lab File: VL042488.D

Acq: 06 May 2025 09:49

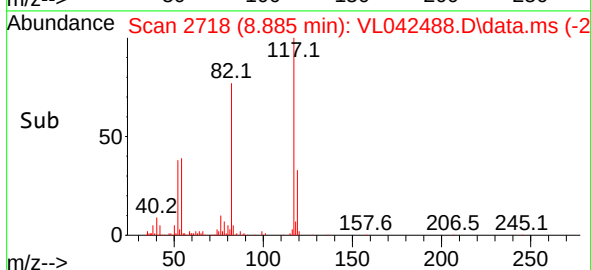
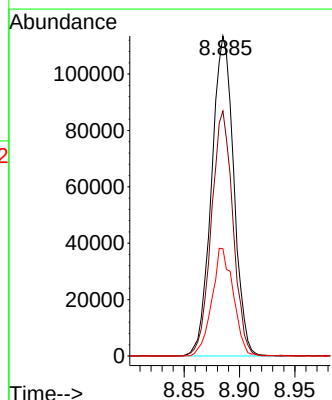
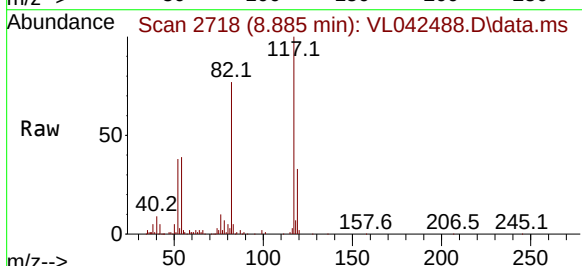
Tgt Ion: 117 Resp: 158449

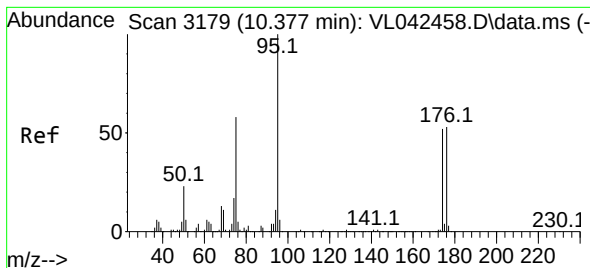
Ion Ratio Lower Upper

117 100

82 74.3 63.5 95.3

119 32.6 25.8 38.8

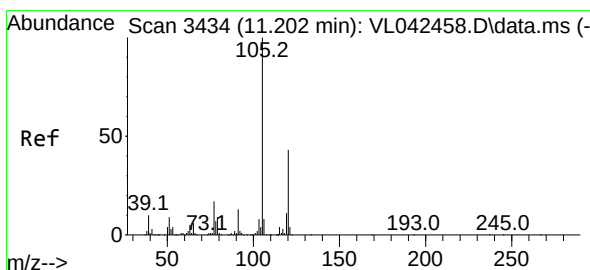
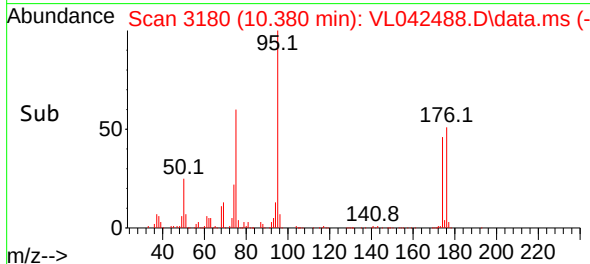
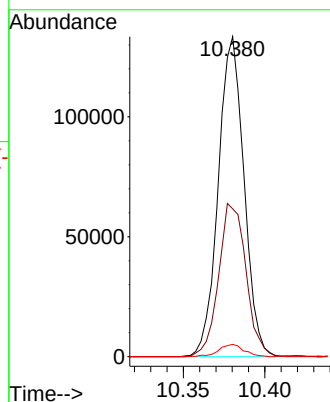
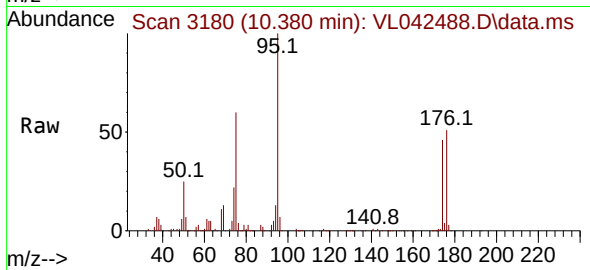




#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.960 ppbv
 RT: 10.380 min Scan# 3179
 Delta R.T. 0.003 min
 Lab File: VL042488.D
 Acq: 06 May 2025 09:49

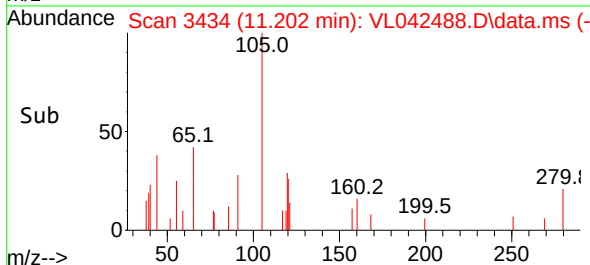
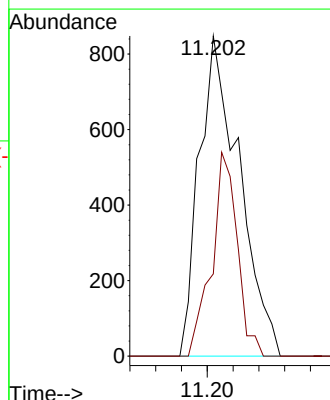
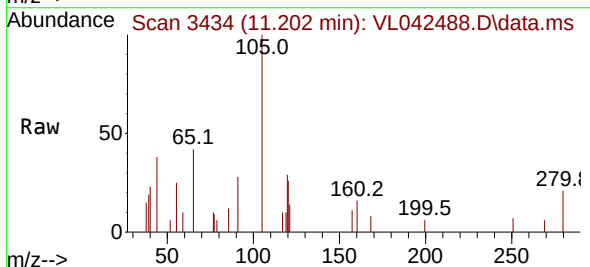
Instrument :
 MSVOA_1
 ClientSampleId :
 VL0506ABL01

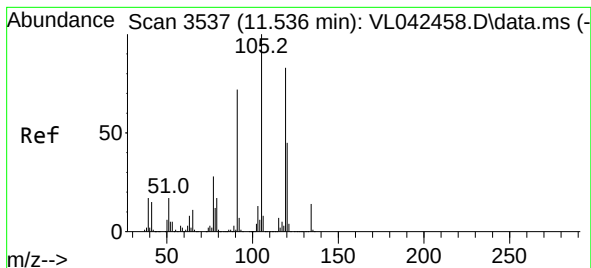
Tgt Ion: 95 Resp: 146316
 Ion Ratio Lower Upper
 95 100
 174 51.1 42.7 64.1
 175 3.8 3.6 5.4



#73
 1,3,5-Trimethylbenzene
 Concen: 0.040 ppbv
 RT: 11.202 min Scan# 3434
 Delta R.T. 0.000 min
 Lab File: VL042488.D
 Acq: 06 May 2025 09:49

Tgt Ion: 105 Resp: 913
 Ion Ratio Lower Upper
 105 100
 120 25.7 34.4 51.6#





#74

1,2,4-Trimethylbenzene

Concen: 0.087 ppbv

RT: 11.539 min Scan# 3537

Delta R.T. 0.003 min

Lab File: VL042488.D

Acq: 06 May 2025 09:49

Instrument :

MSVOA_1

ClientSampleId :

VL0506ABL01

Tgt Ion:105 Resp: 2419

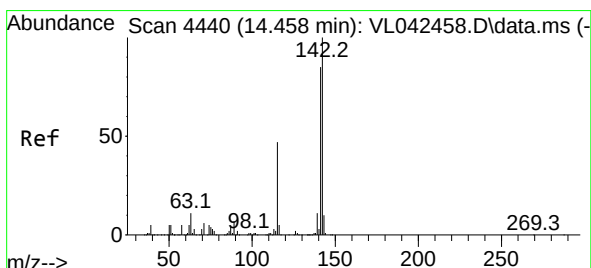
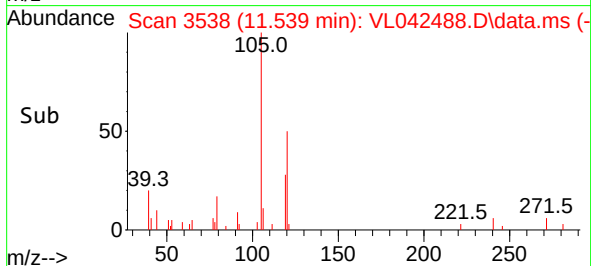
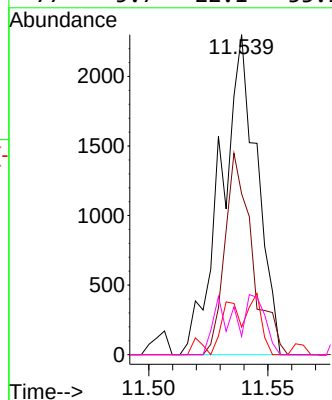
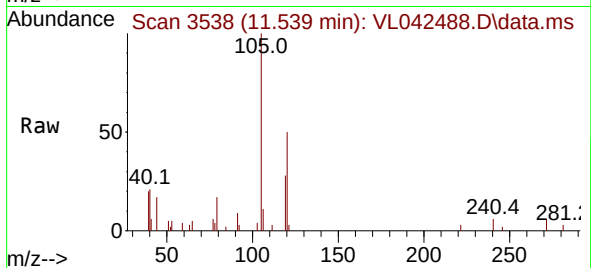
Ion Ratio Lower Upper

105 100

120 50.3 36.1 54.1

91 8.6 57.6 86.4#

77 5.7 22.1 33.1#



#80

Naphthalene,2-methyl-

Concen: 0.023 ppbv

RT: 14.458 min Scan# 4440

Delta R.T. 0.000 min

Lab File: VL042488.D

Acq: 06 May 2025 09:49

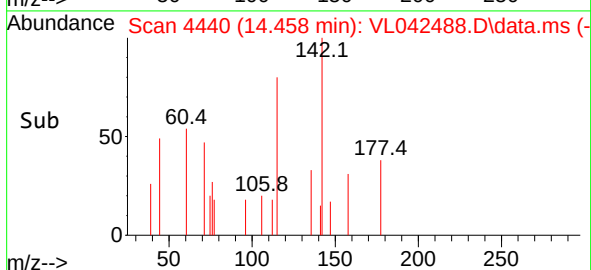
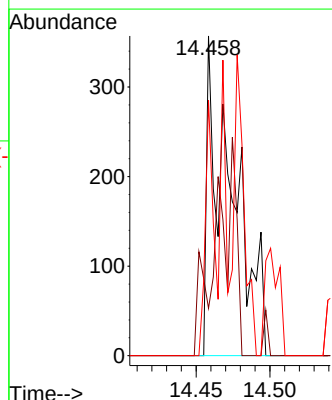
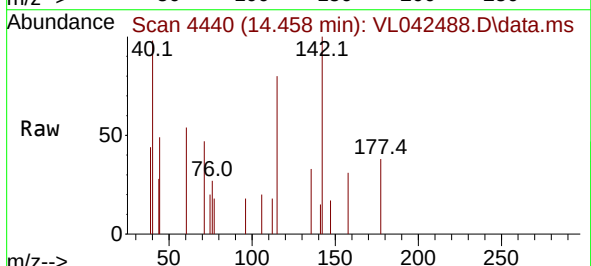
Tgt Ion:142 Resp: 408

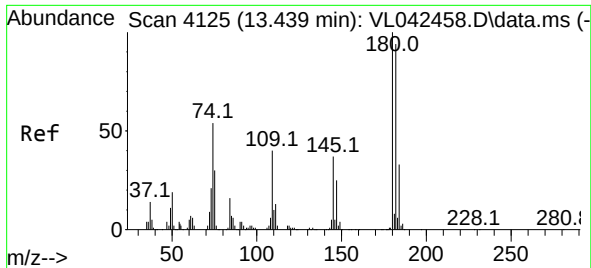
Ion Ratio Lower Upper

142 100

141 57.8 67.4 101.0#

115 105.4 36.9 55.3#





#81

1,2,4-Trichlorobenzene

Concen: 0.024 ppbv

RT: 13.442 min Scan# 41

Delta R.T. 0.003 min

Lab File: VL042488.D

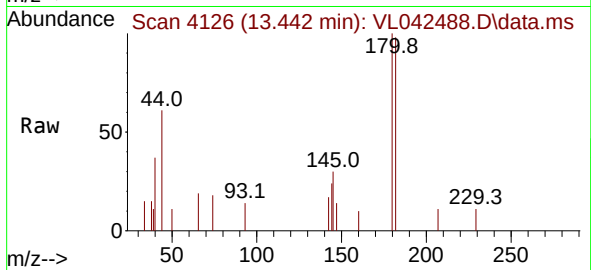
Acq: 06 May 2025 09:49

Instrument :

MSVOA_L

ClientSampleId :

VL0506ABL01



Tgt Ion:180 Resp: 301

Ion Ratio Lower Upper

180 100

182 65.1 74.6 111.8#

184 11.3 24.9 37.3#

