

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081325\
 Data File : VL042857.D
 Acq On : 13 Aug 2025 18:21
 Operator : SY/MD
 Sample : Q2794-01DL 10X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1DL

Quant Time: Aug 14 02:19:57 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Aug 14 02:12:54 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.800	49	132826	10.000	ppbv	0.01
33) 1,4-Difluorobenzene	3.975	114	406342	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.898	117	347245	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.390	95	260346	9.997	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.000%

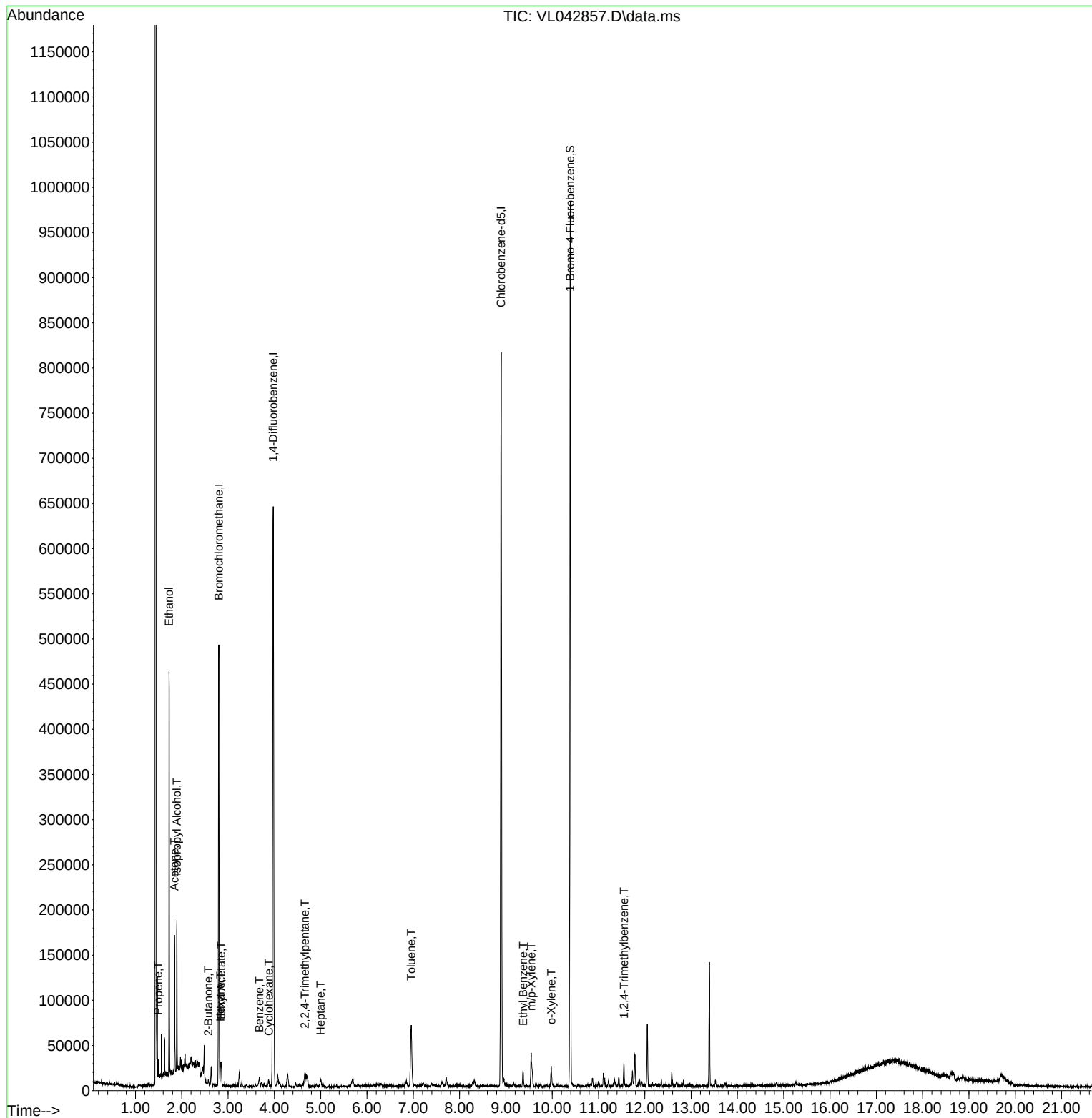
Target Compounds						Qvalue
9) Propene	1.493	41	1690m	0.182	ppbv	
10) Heptane	5.001	43	4291m	0.172	ppbv	
13) Ethanol	1.726	45	158844	186.947	ppbv	93
15) Acetone	1.842	43	61695	3.511	ppbv	98
19) Isopropyl Alcohol	1.894	45	71252	6.789	ppbv #	37
25) Ethyl Acetate	2.852	43	16896	0.397	ppbv #	90
26) Hexane	2.836	57	4508	0.230	ppbv #	18
30) Cyclohexane	3.878	84	2051m	0.119	ppbv	
34) 2-Butanone	2.574	43	4200m	0.153	ppbv	
36) Benzene	3.674	78	4851	0.125	ppbv #	89
44) 2,2,4-Trimethylpentane	4.658	57	15104m	0.229	ppbv	
53) Toluene	6.956	91	46683	1.009	ppbv	97
58) Ethyl Benzene	9.371	91	9634	0.157	ppbv	90
59) m/p-Xylene	9.549	91	22807	0.475	ppbv #	100
60) o-Xylene	9.982	91	9054	0.187	ppbv	98
74) 1,2,4-Trimethylbenzene	11.549	105	8568	0.157	ppbv #	62

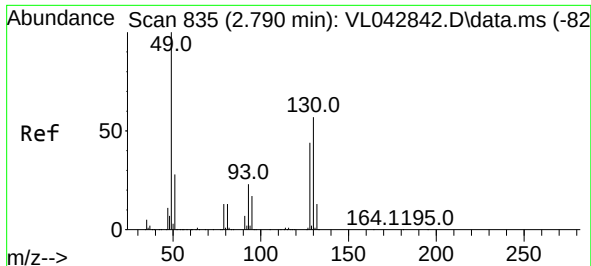
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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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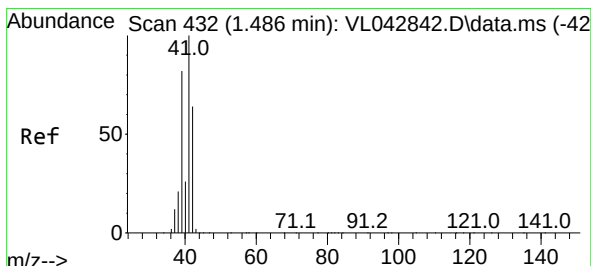
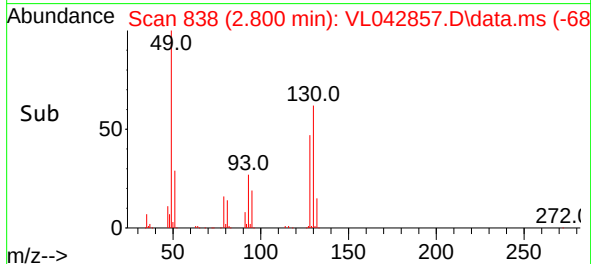
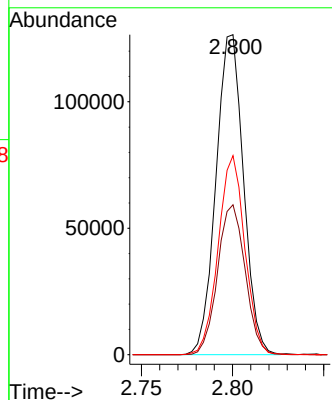
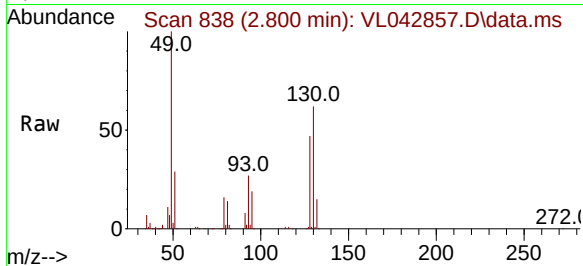




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 2.800 min Scan# 81
 Delta R.T. 0.010 min
 Lab File: VL042857.D
 Acq: 13 Aug 2025 18:21

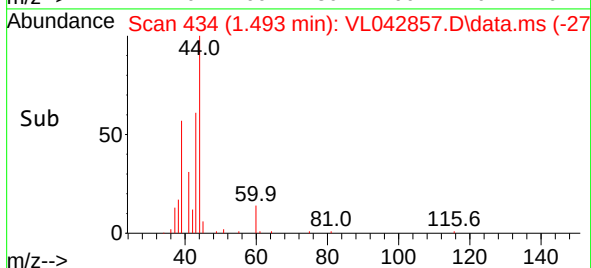
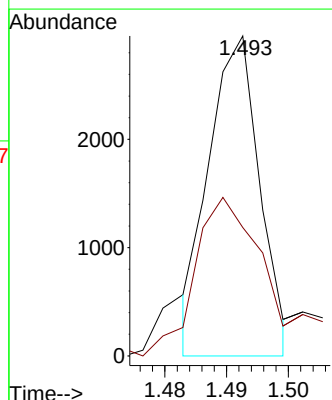
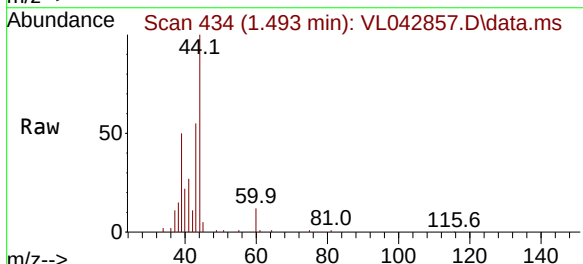
Instrument :
 MSVOA_L
 ClientSampleId :
 IA1DL

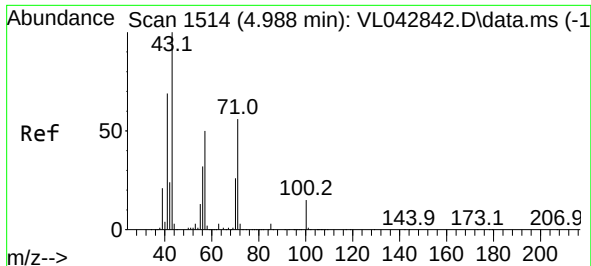
Tgt Ion: 49 Resp: 132826
 Ion Ratio Lower Upper
 49 100
 128 47.0 23.7 71.1
 130 60.1 30.6 91.6



#9
 Propene
 Concen: 0.182 ppbv m
 RT: 1.493 min Scan# 434
 Delta R.T. 0.007 min
 Lab File: VL042857.D
 Acq: 13 Aug 2025 18:21

Tgt Ion: 41 Resp: 1690
 Ion Ratio Lower Upper
 41 100
 42 172.8 53.0 79.4#

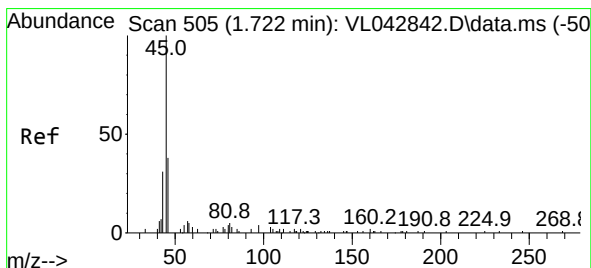
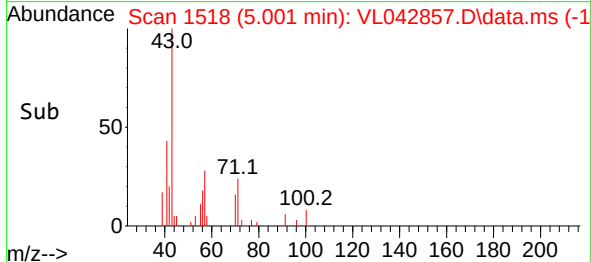
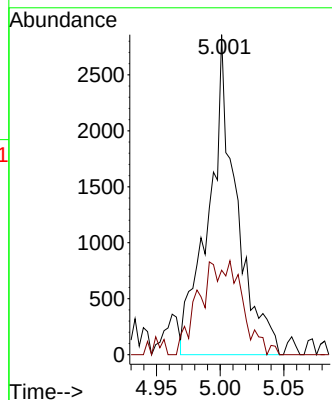
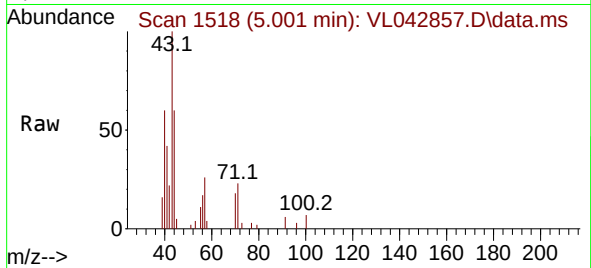




#10
 Heptane
 Concen: 0.172 ppbv m
 RT: 5.001 min Scan# 11
 Delta R.T. 0.013 min
 Lab File: VL042857.D
 Acq: 13 Aug 2025 18:21

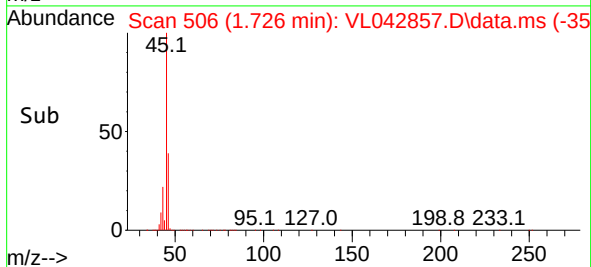
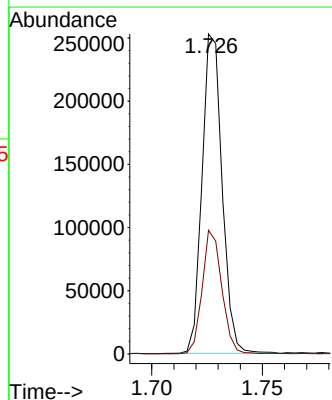
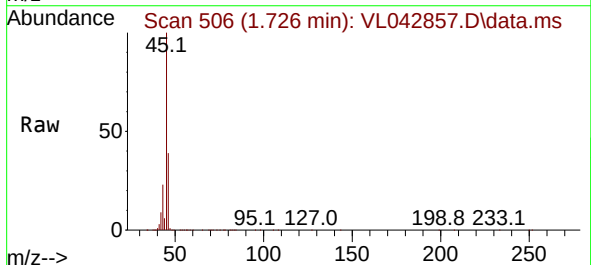
Instrument :
 MSVOA_L
 ClientSampleId :
 IA1DL

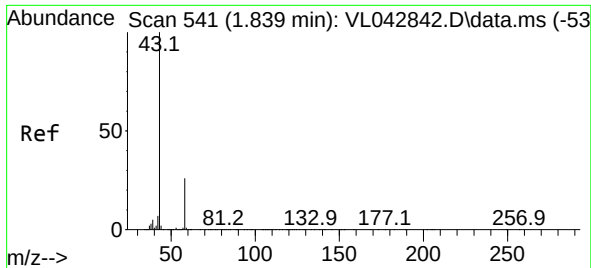
Tgt Ion: 43 Resp: 4291
 Ion Ratio Lower Upper
 43 100
 57 48.0 41.4 62.0



#13
 Ethanol
 Concen: 186.947 ppbv
 RT: 1.726 min Scan# 506
 Delta R.T. 0.003 min
 Lab File: VL042857.D
 Acq: 13 Aug 2025 18:21

Tgt Ion: 45 Resp: 158844
 Ion Ratio Lower Upper
 45 100
 46 38.9 17.5 69.9





#15

Acetone

Concen: 3.511 ppbv

RT: 1.842 min Scan# 541

Delta R.T. 0.003 min

Lab File: VL042857.D

Acq: 13 Aug 2025 18:21

Instrument :

MSVOA_L

ClientSampleId :

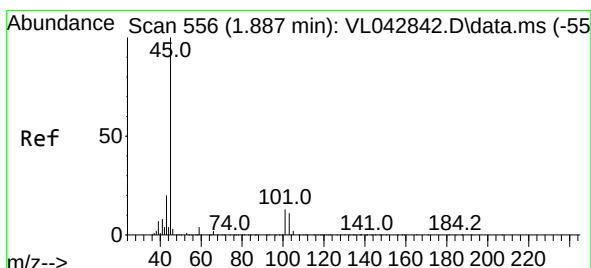
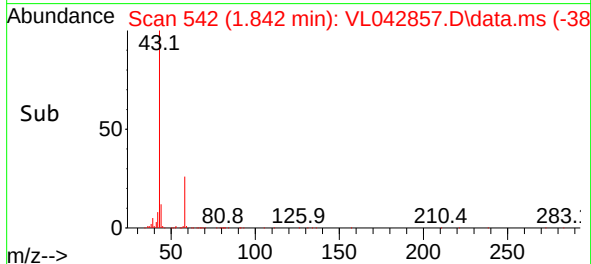
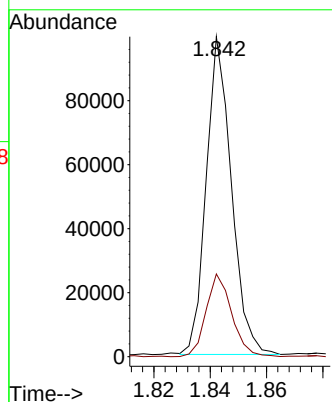
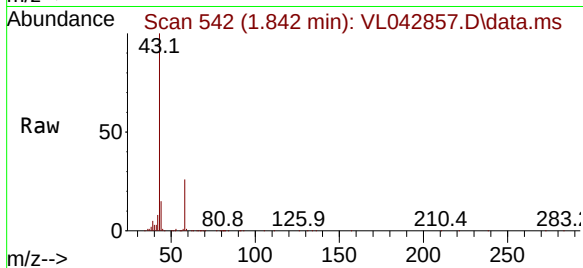
IA1DL

Tgt Ion: 43 Resp: 61695

Ion Ratio Lower Upper

43 100

58 26.8 22.4 33.6



#19

Isopropyl Alcohol

Concen: 6.789 ppbv

RT: 1.894 min Scan# 558

Delta R.T. 0.007 min

Lab File: VL042857.D

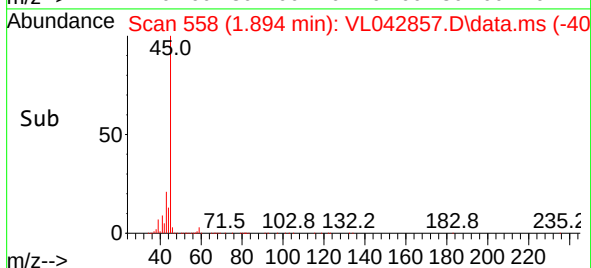
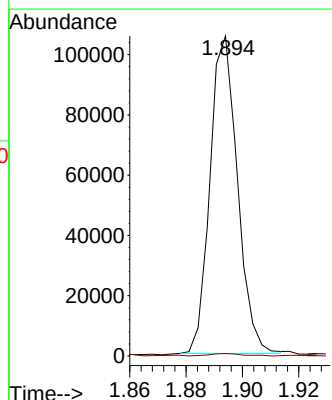
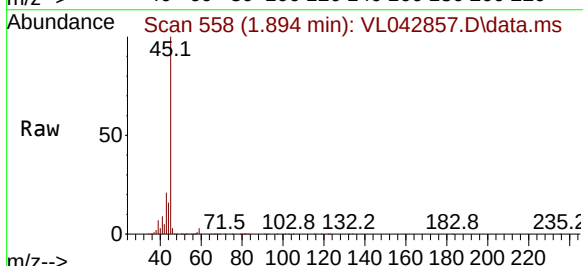
Acq: 13 Aug 2025 18:21

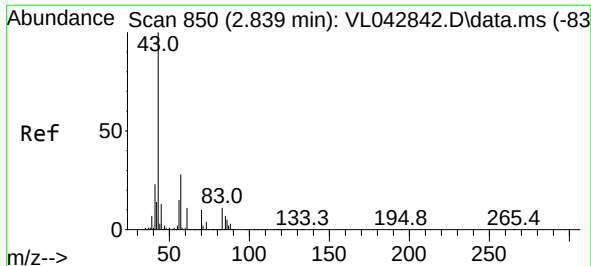
Tgt Ion: 45 Resp: 71252

Ion Ratio Lower Upper

45 100

58 1.3 32.7 49.1#

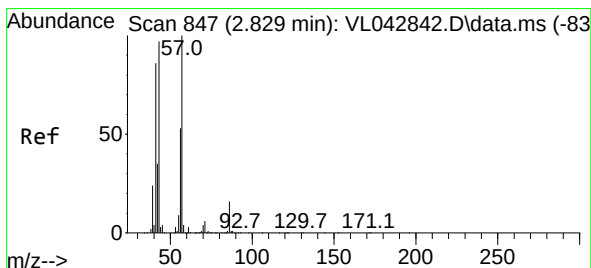
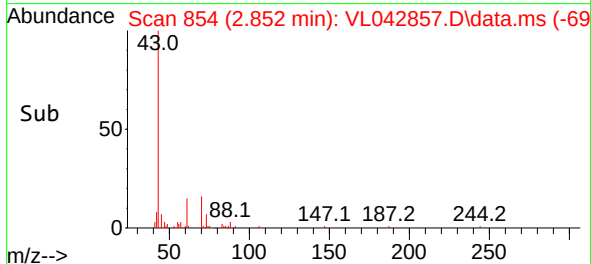
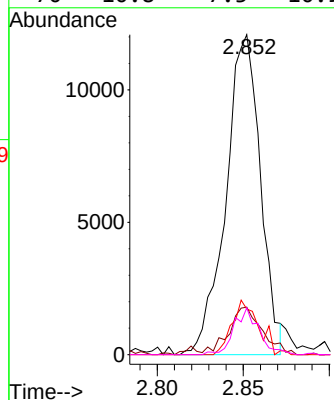
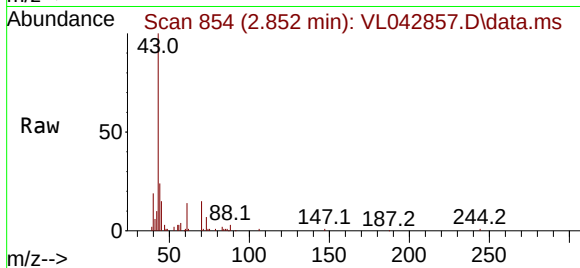




#25
Ethyl Acetate
Concen: 0.397 ppbv
RT: 2.852 min Scan# 81
Delta R.T. 0.013 min
Lab File: VL042857.D
Acq: 13 Aug 2025 18:21

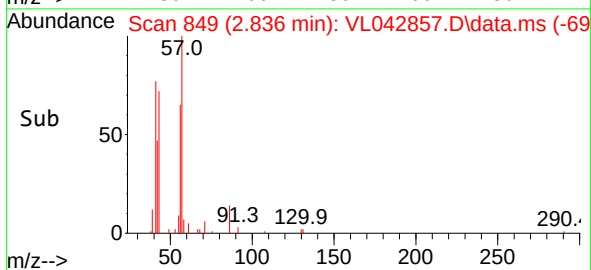
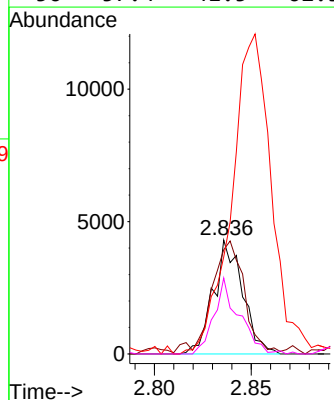
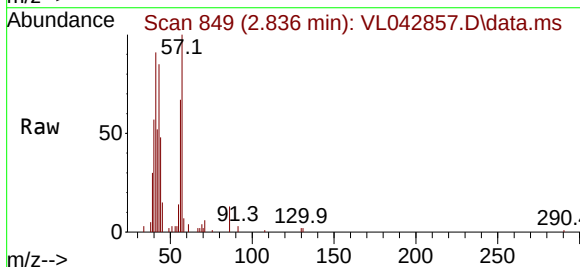
Instrument :
MSVOA_L
ClientSampleId :
IA1DL

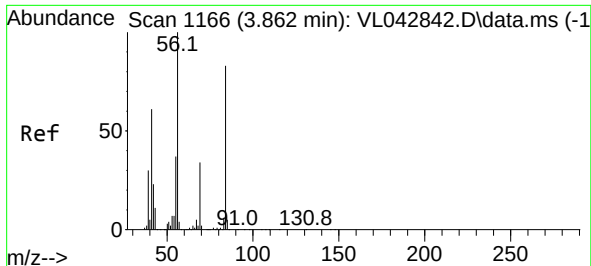
Tgt Ion: 43	Resp: 16896
Ion Ratio	Lower Upper
43 100	
45 15.4	8.1 12.1#
61 13.2	7.4 11.2#
70 10.8	7.3 10.9



#26
Hexane
Concen: 0.230 ppbv
RT: 2.836 min Scan# 849
Delta R.T. 0.007 min
Lab File: VL042857.D
Acq: 13 Aug 2025 18:21

Tgt Ion: 57	Resp: 4508
Ion Ratio	Lower Upper
57 100	
41 118.4	68.6 103.0#
43 398.0	168.5 252.7#
56 57.4	41.5 62.3

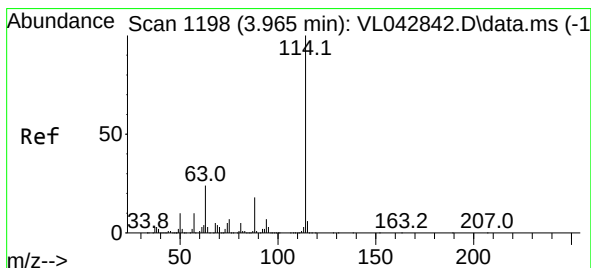
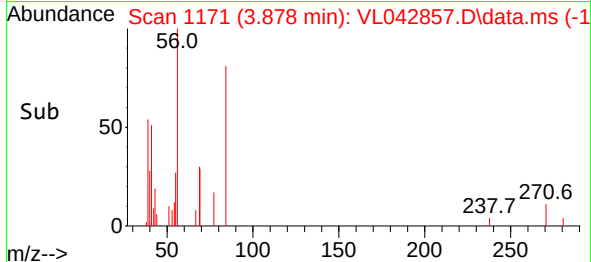
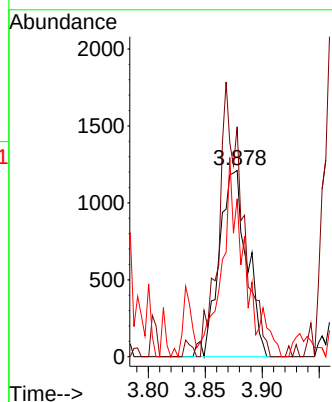
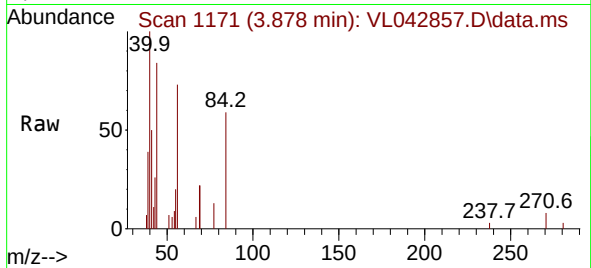




#30
Cyclohexane
Concen: 0.119 ppbv m
RT: 3.878 min Scan# 1166
Delta R.T. 0.016 min
Lab File: VL042857.D
Acq: 13 Aug 2025 18:21

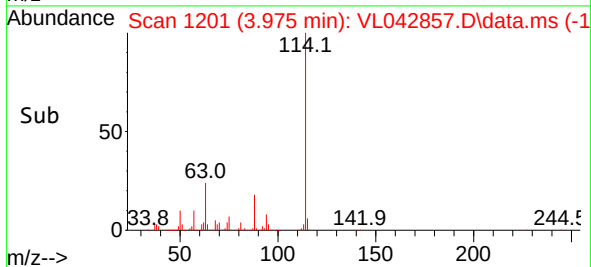
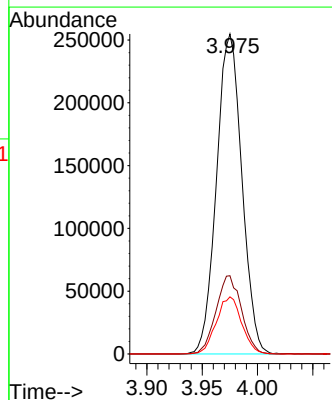
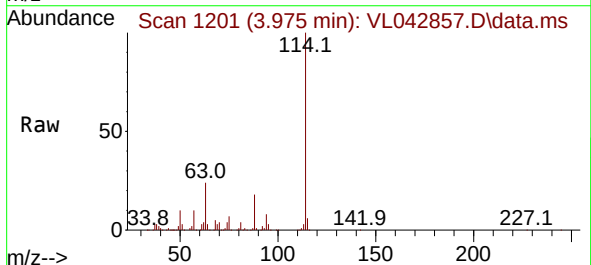
Instrument :
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ClientSampleId :
IA1DL

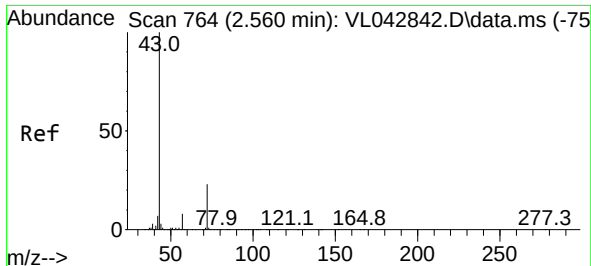
Tgt Ion: 84 Resp: 2051
Ion Ratio Lower Upper
84 100
56 126.0 98.8 148.2
41 99.7 61.3 91.9#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.975 min Scan# 1201
Delta R.T. 0.010 min
Lab File: VL042857.D
Acq: 13 Aug 2025 18:21

Tgt Ion: 114 Resp: 406342
Ion Ratio Lower Upper
114 100
63 24.6 19.7 29.5
88 17.9 14.4 21.6

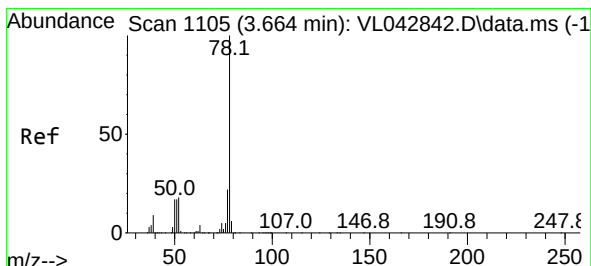
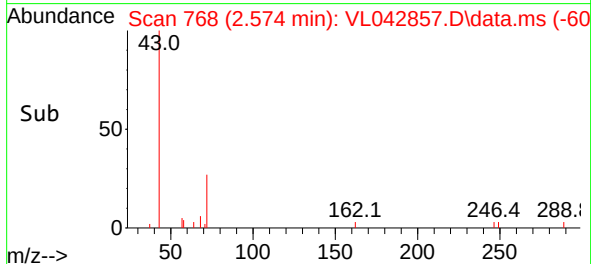
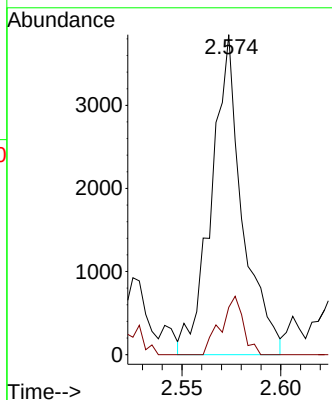
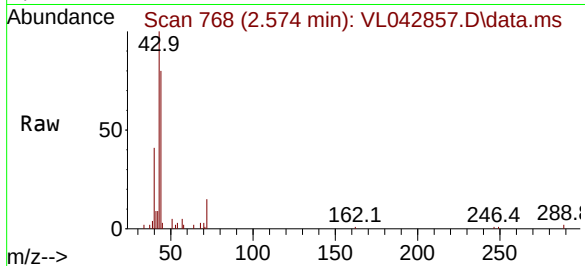




#34
2-Butanone
Concen: 0.153 ppbv m
RT: 2.574 min Scan# 764
Delta R.T. 0.013 min
Lab File: VL042857.D
Acq: 13 Aug 2025 18:21

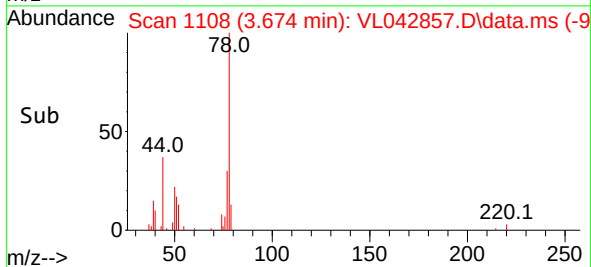
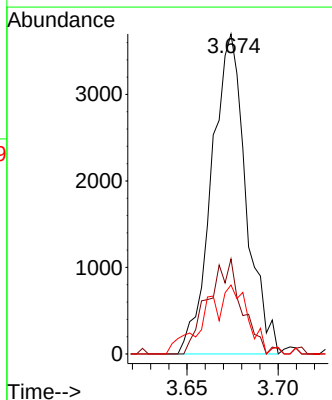
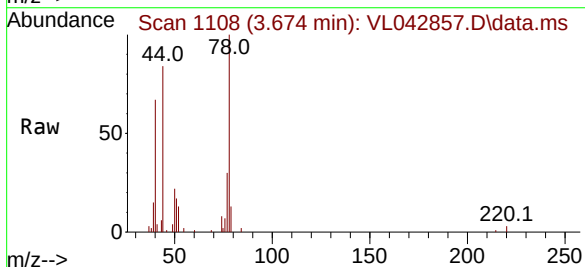
Instrument :
MSVOA_L
ClientSampleId :
IA1DL

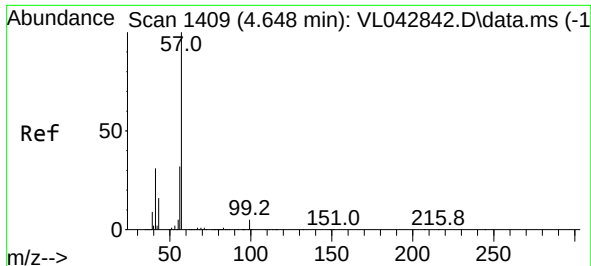
Tgt Ion: 43 Resp: 4200
Ion Ratio Lower Upper
43 100
72 13.1 18.6 28.0#



#36
Benzene
Concen: 0.125 ppbv
RT: 3.674 min Scan# 1108
Delta R.T. 0.010 min
Lab File: VL042857.D
Acq: 13 Aug 2025 18:21

Tgt Ion: 78 Resp: 4851
Ion Ratio Lower Upper
78 100
77 29.7 17.7 26.5#
50 19.5 13.9 20.9





#44

2,2,4-Trimethylpentane

Concen: 0.229 ppbv m

RT: 4.658 min Scan# 1409

Delta R.T. 0.010 min

Lab File: VL042857.D

Acq: 13 Aug 2025 18:21

Instrument :

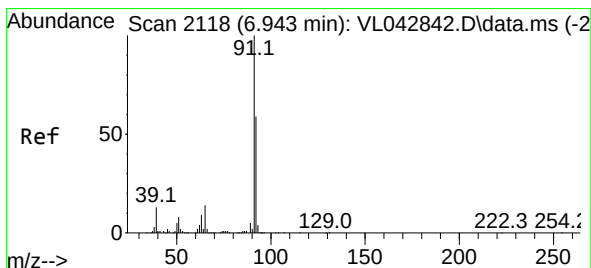
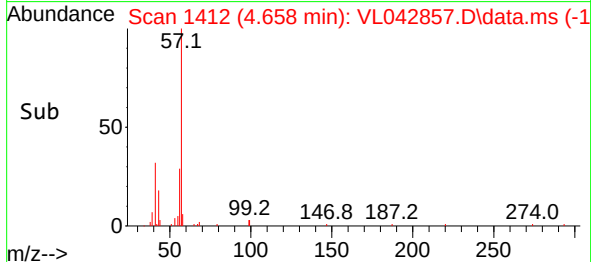
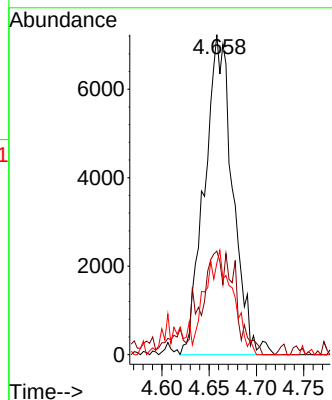
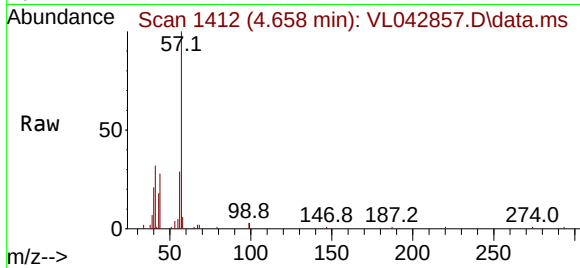
MSVOA_L

ClientSampleId :

IA1DL

Tgt Ion: 57 Resp: 15104

Ion	Ratio	Lower	Upper
57	100		
41	43.7	24.8	37.2#
56	32.8	25.5	38.3



#53

Toluene

Concen: 1.009 ppbv

RT: 6.956 min Scan# 2122

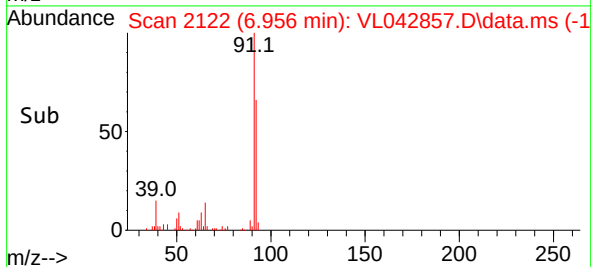
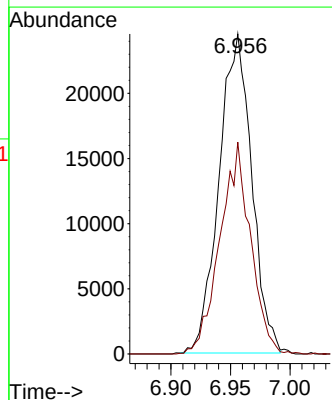
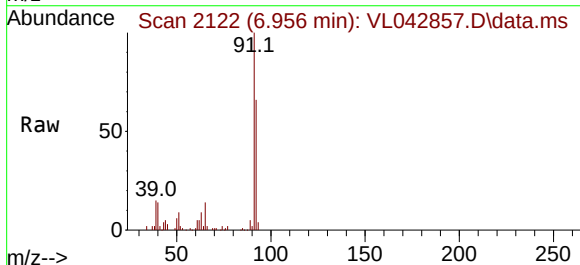
Delta R.T. 0.013 min

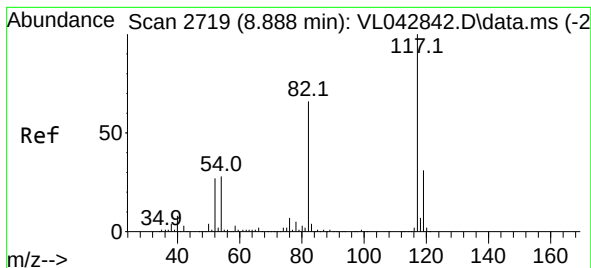
Lab File: VL042857.D

Acq: 13 Aug 2025 18:21

Tgt Ion: 91 Resp: 46683

Ion	Ratio	Lower	Upper
91	100		
92	62.1	47.8	71.6





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.898 min Scan# 21

Delta R.T. 0.010 min

Lab File: VL042857.D

Acq: 13 Aug 2025 18:21

Instrument :

MSVOA_L

ClientSampleId :

IA1DL

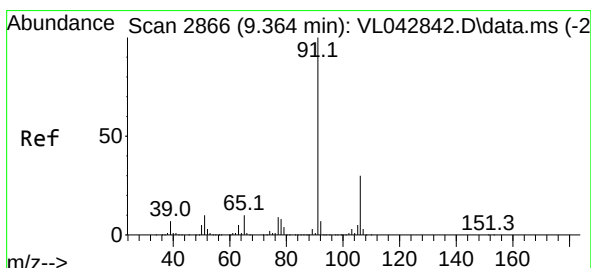
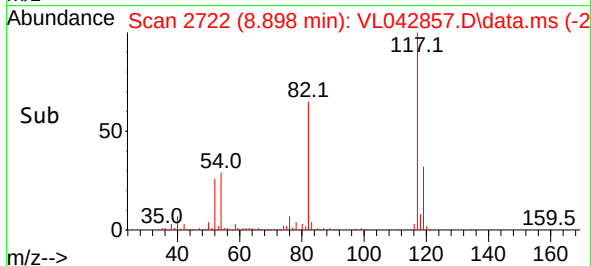
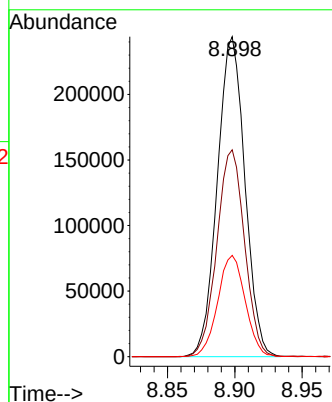
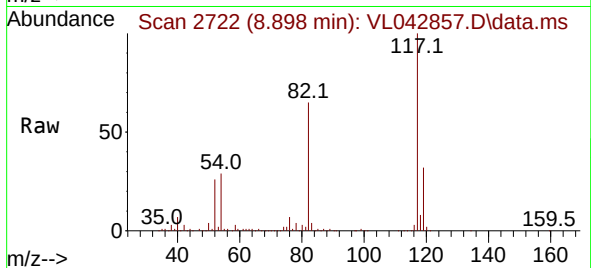
Tgt Ion:117 Resp: 347245

Ion Ratio Lower Upper

117 100

82 65.1 54.6 81.8

119 31.7 25.9 38.9



#58

Ethyl Benzene

Concen: 0.157 ppbv

RT: 9.371 min Scan# 2868

Delta R.T. 0.007 min

Lab File: VL042857.D

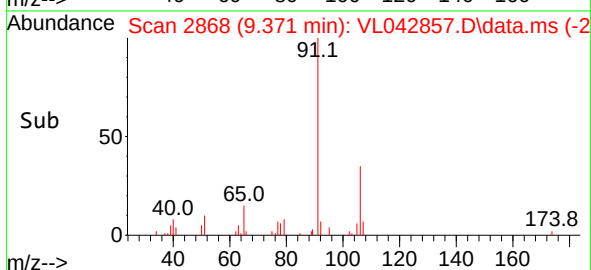
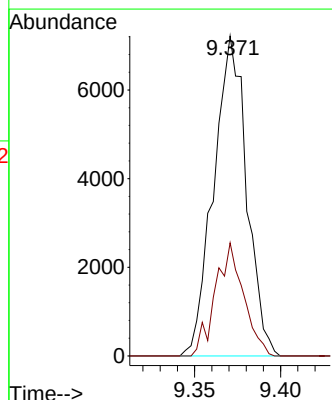
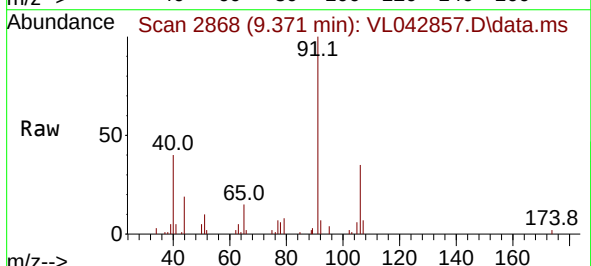
Acq: 13 Aug 2025 18:21

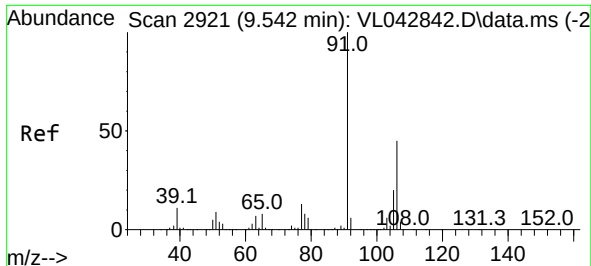
Tgt Ion: 91 Resp: 9634

Ion Ratio Lower Upper

91 100

106 35.4 23.9 35.9





#59

m/p-Xylene

Concen: 0.475 ppbv

RT: 9.549 min Scan# 2921

Delta R.T. 0.007 min

Lab File: VL042857.D

Acq: 13 Aug 2025 18:21

Instrument :

MSVOA_L

ClientSampleId :

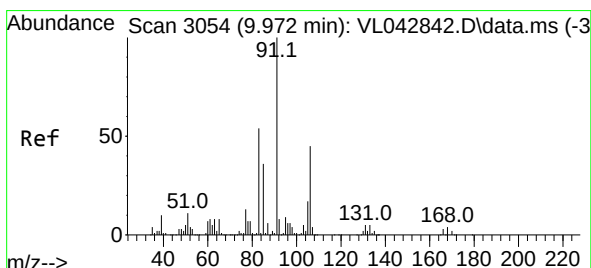
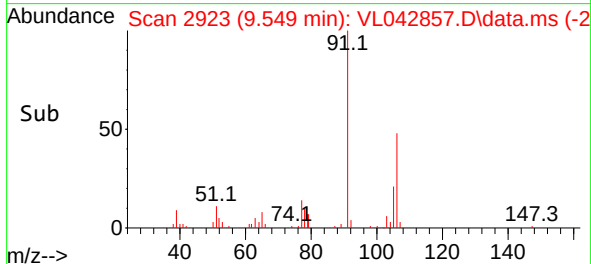
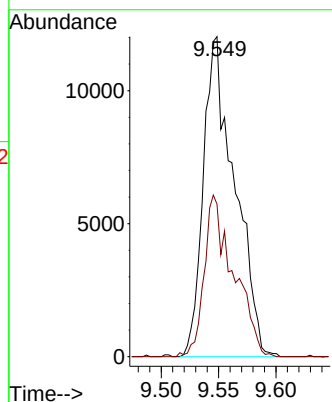
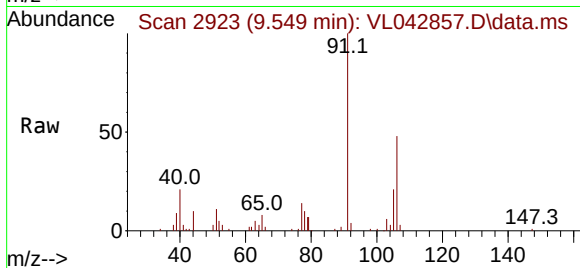
IA1DL

Tgt Ion: 91 Resp: 22807

Ion Ratio Lower Upper

91 100

106 47.3 0.0 0.0#



#60

o-Xylene

Concen: 0.187 ppbv

RT: 9.982 min Scan# 3057

Delta R.T. 0.010 min

Lab File: VL042857.D

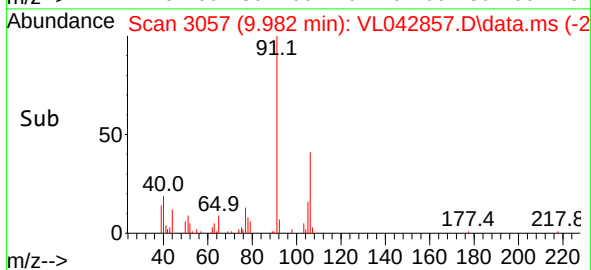
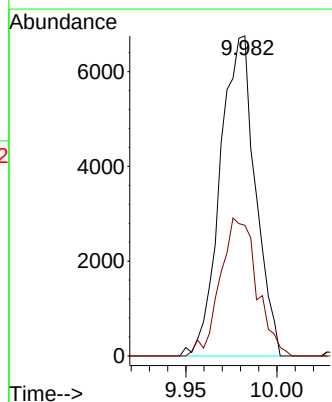
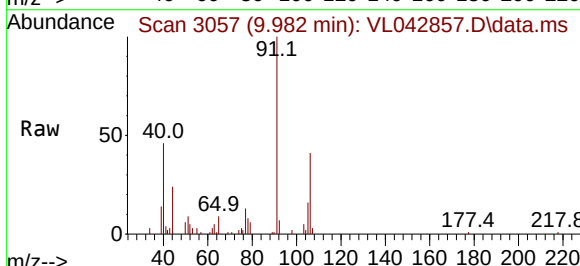
Acq: 13 Aug 2025 18:21

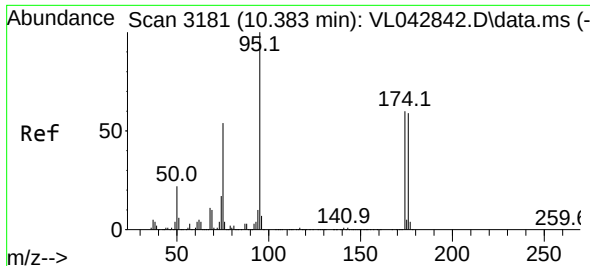
Tgt Ion: 91 Resp: 9054

Ion Ratio Lower Upper

91 100

106 45.0 21.8 65.4

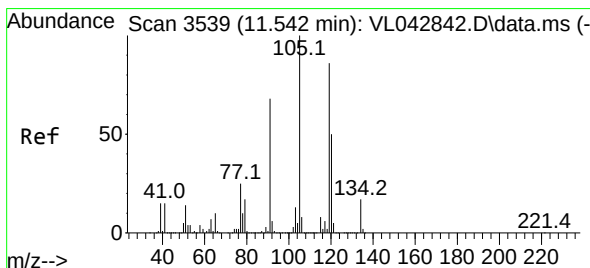
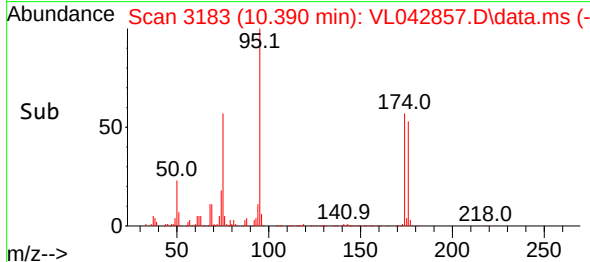
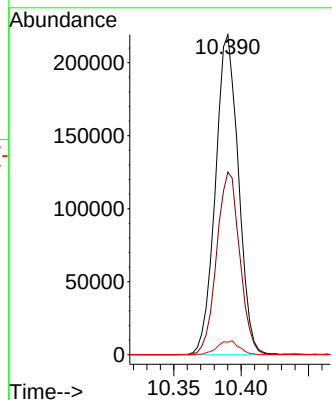
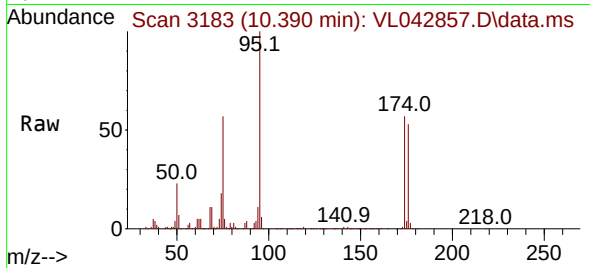




#68
1-Bromo-4-Fluorobenzene
Concen: 9.997 ppbv
RT: 10.390 min Scan# 3181
Delta R.T. 0.007 min
Lab File: VL042857.D
Acq: 13 Aug 2025 18:21

Instrument :
MSVOA_L
ClientSampleId :
IA1DL

Tgt Ion: 95 Resp: 260346
Ion Ratio Lower Upper
95 100
174 57.4 48.4 72.6
175 4.2 3.8 5.8



#74
1,2,4-Trimethylbenzene
Concen: 0.157 ppbv
RT: 11.549 min Scan# 3541
Delta R.T. 0.007 min
Lab File: VL042857.D
Acq: 13 Aug 2025 18:21

Tgt Ion: 105 Resp: 8568
Ion Ratio Lower Upper
105 100
120 46.8 39.8 59.6
91 12.9 54.2 81.4#
77 12.6 19.8 29.6#

