

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL120825\
 Data File : VL043323.D
 Acq On : 08 Dec 2025 21:23
 Operator : SY/MD
 Sample : Q3799-03DL2 40X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 10-IA-1DL2

Quant Time: Dec 09 00:16:19 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Nov 19 01:11:25 2025
 Response via : Initial Calibration

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

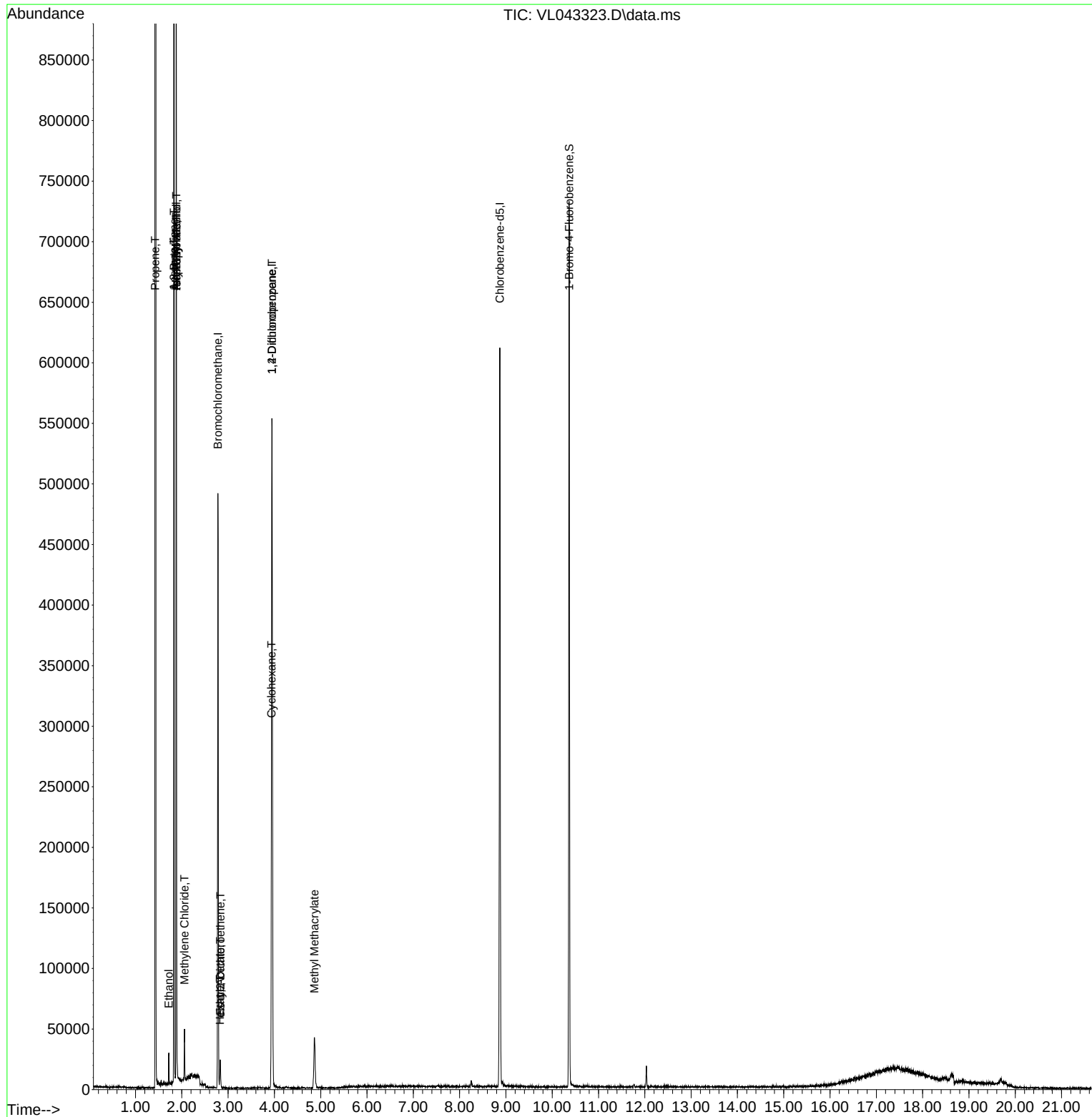
Internal Standards						
1) Bromochloromethane	2.781	49	125802	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.946	114	308632	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.869	117	237899	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.364	95	166753	9.563	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.600%
Target Compounds						
					Qvalue	
9) Propene	1.425	41	706	0.095	ppbv #	86
13) Ethanol	1.719	45	8871	3.405	ppbv #	38
15) Acetone	1.829	43	1249620	71.496	ppbv	96
16) 1,3-Butadiene	1.833	39	61066	7.837	ppbv #	14
17) tert-Butyl alcohol	1.881	59	13923	0.607	ppbv	97
19) Isopropyl Alcohol	1.881	45	379998	38.475	ppbv #	13
20) Methylene Chloride	2.059	84	6035	0.420	ppbv	95
21) Allyl Chloride	1.881	41	37016	3.148	ppbv #	74
25) Ethyl Acetate	2.829	43	14282	0.379	ppbv #	91
26) Hexane	2.823	57	836	0.051	ppbv #	1
30) Cyclohexane	3.936	84	1137	0.082	ppbv #	1
31) cis-1,2-Dichloroethene	2.833	61	1554	0.095	ppbv #	26
39) 1,2-Dichloropropane	3.946	63	77207	7.137	ppbv #	23
43) Methyl Methacrylate	4.865	69	2369	0.151	ppbv #	1

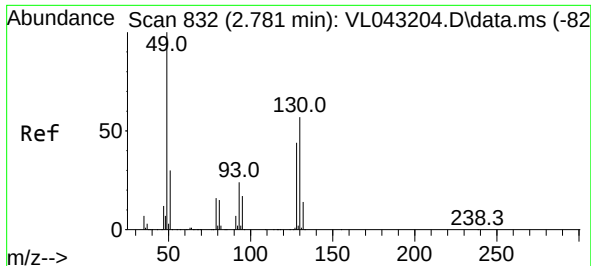
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Misc : 400mL/MSVOA_L
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10-IA-1DL2

Quant Time: Dec 09 00:16:19 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Wed Nov 19 01:11:25 2025
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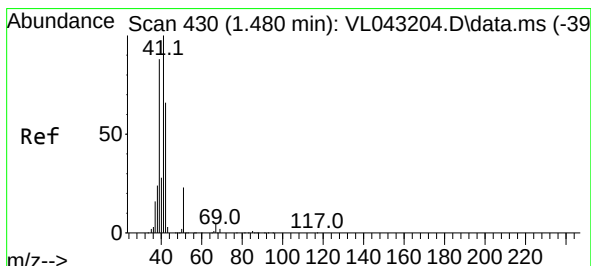
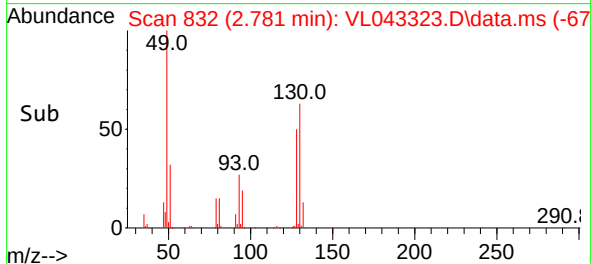
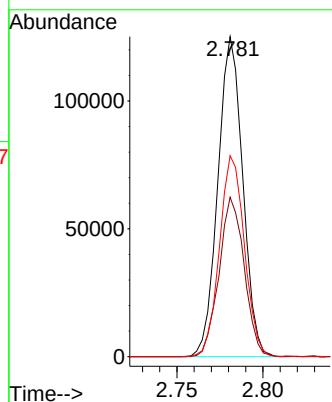
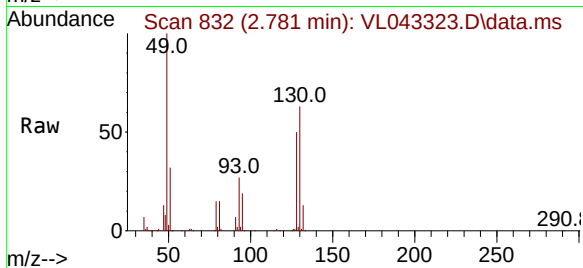




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.781 min Scan# 81
Delta R.T. -0.000 min
Lab File: VL043323.D
Acq: 08 Dec 2025 21:23

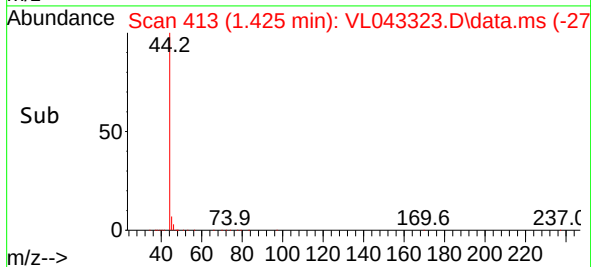
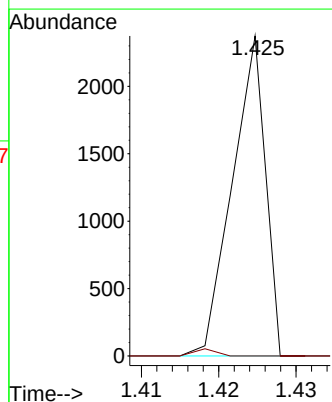
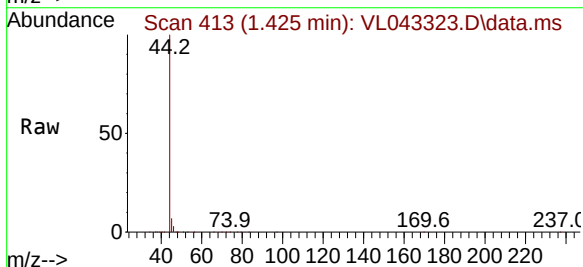
Instrument :
MSVOA_L
ClientSampleId :
10-IA-1DL2

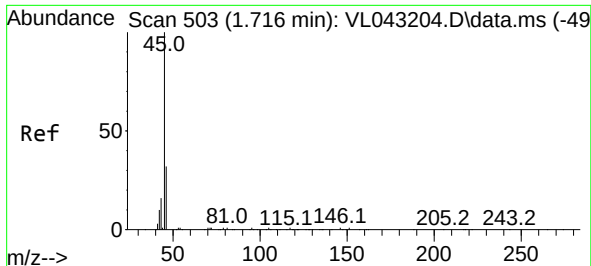
Tgt Ion: 49 Resp: 125802
Ion Ratio Lower Upper
49 100
128 50.3 23.0 69.0
130 63.2 29.9 89.7



#9
Propene
Concen: 0.095 ppbv
RT: 1.425 min Scan# 413
Delta R.T. -0.055 min
Lab File: VL043323.D
Acq: 08 Dec 2025 21:23

Tgt Ion: 41 Resp: 706
Ion Ratio Lower Upper
41 100
42 0.0 3.7 5.5#

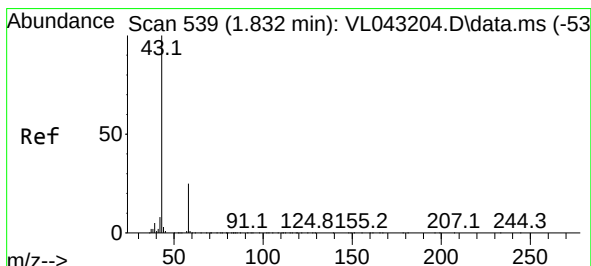
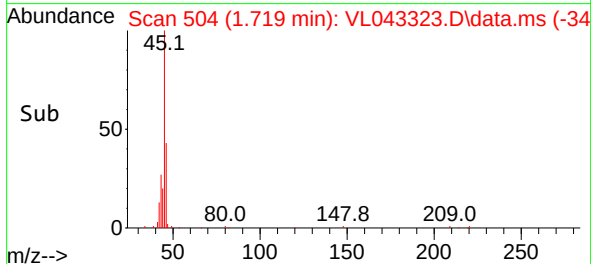
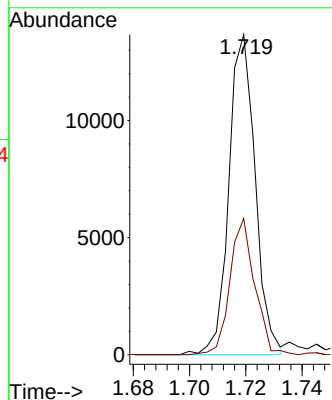
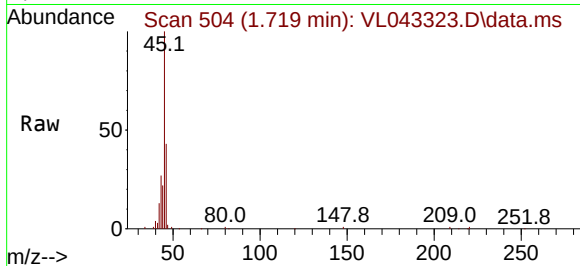




#13
 Ethanol
 Concen: 3.405 ppbv
 RT: 1.719 min Scan# 503
 Delta R.T. 0.003 min
 Lab File: VL043323.D
 Acq: 08 Dec 2025 21:23

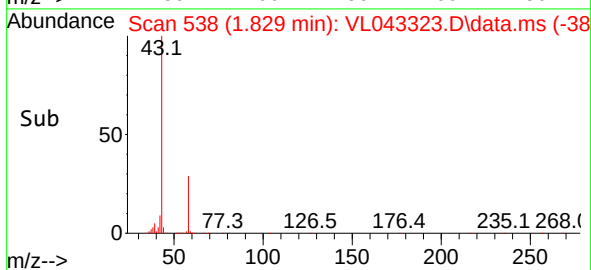
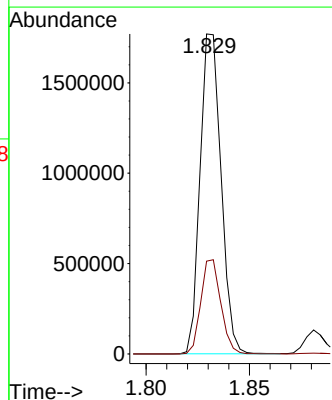
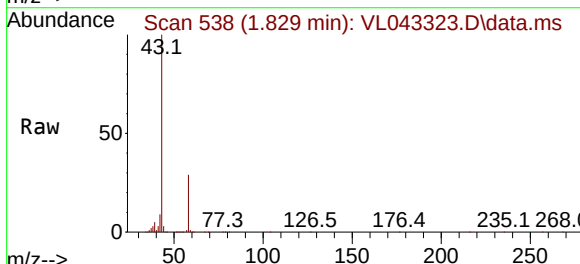
Instrument :
 MSVOA_1
 ClientSampleId :
 10-IA-1DL2

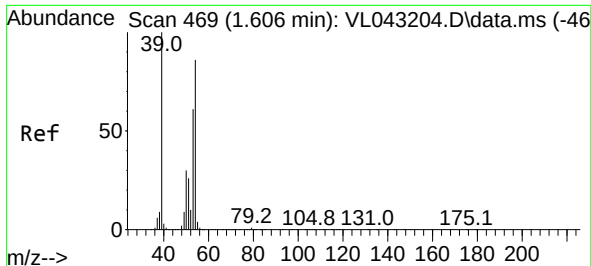
Tgt Ion: 45 Resp: 8871
 Ion Ratio Lower Upper
 45 100
 46 0.0 15.0 59.8#



#15
 Acetone
 Concen: 71.496 ppbv
 RT: 1.829 min Scan# 538
 Delta R.T. -0.003 min
 Lab File: VL043323.D
 Acq: 08 Dec 2025 21:23

Tgt Ion: 43 Resp: 1249620
 Ion Ratio Lower Upper
 43 100
 58 28.0 20.7 31.1

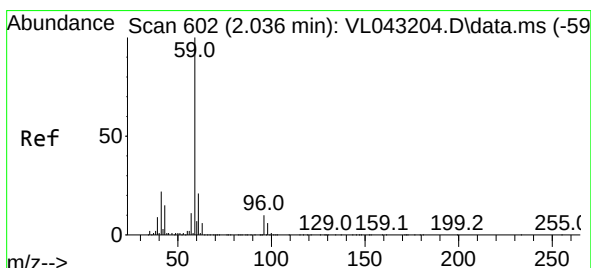
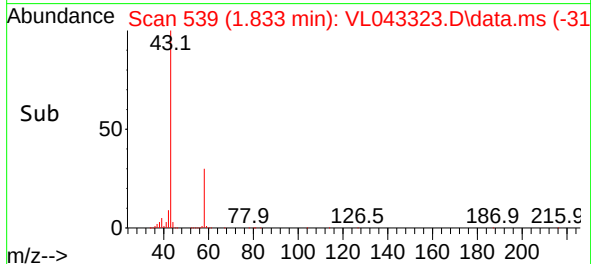
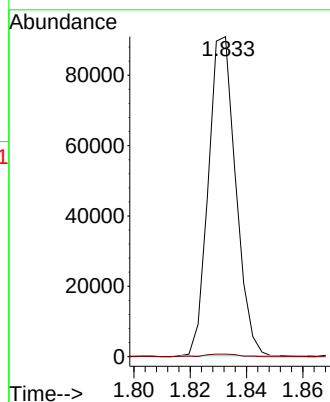
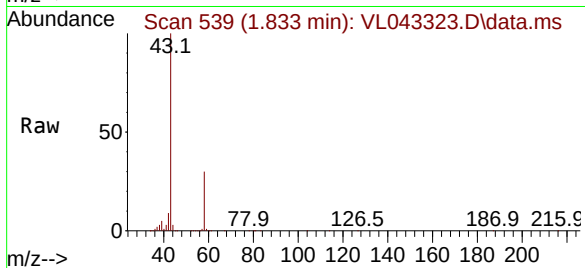




#16
1,3-Butadiene
Concen: 7.837 ppbv
RT: 1.833 min Scan# 51
Delta R.T. 0.227 min
Lab File: VL043323.D
Acq: 08 Dec 2025 21:23

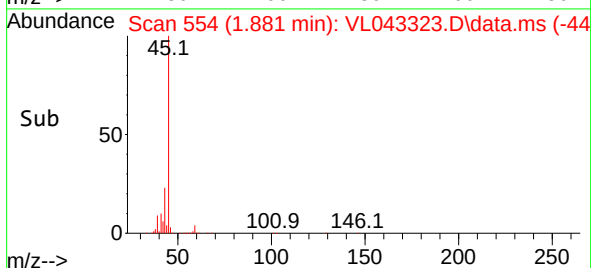
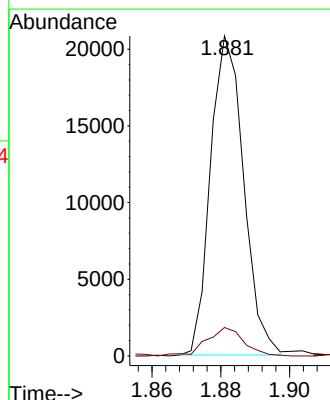
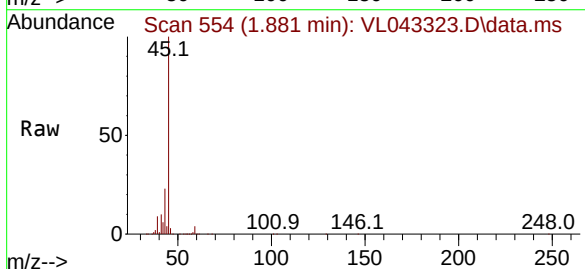
Instrument :
MSVOA_L
ClientSampleId :
10-IA-1DL2

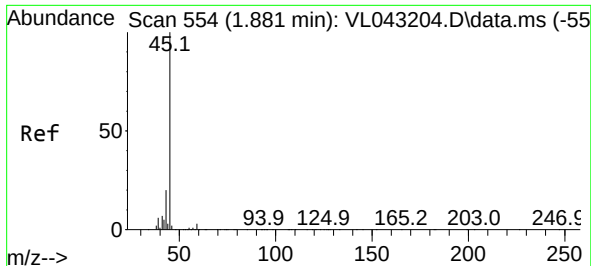
Tgt Ion: 39 Resp: 61066
Ion Ratio Lower Upper
39 100
54 1.1 59.4 89.2#



#17
tert-Butyl alcohol
Concen: 0.607 ppbv
RT: 1.881 min Scan# 554
Delta R.T. -0.155 min
Lab File: VL043323.D
Acq: 08 Dec 2025 21:23

Tgt Ion: 59 Resp: 13923
Ion Ratio Lower Upper
59 100
57 10.2 9.0 13.4

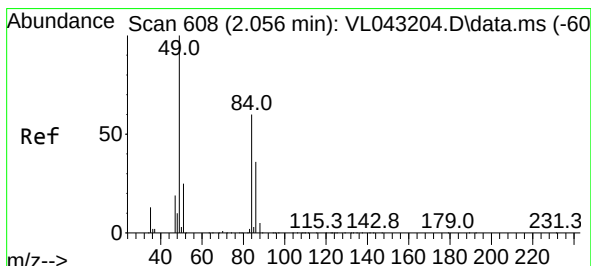
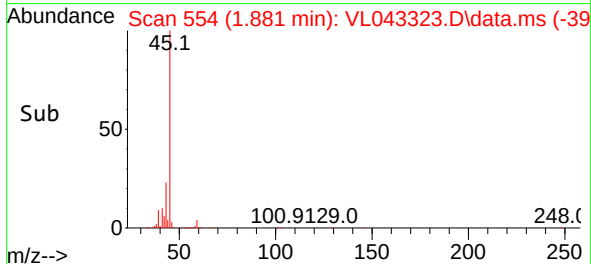
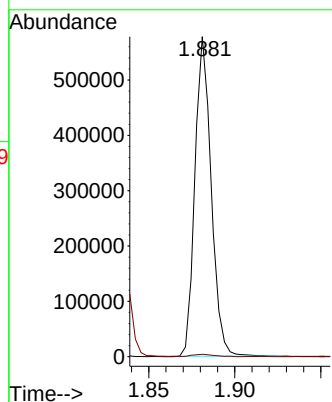
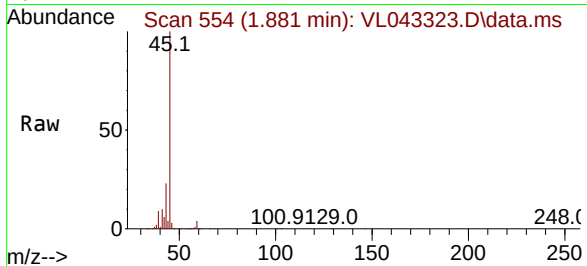




#19
Isopropyl Alcohol
Concen: 38.475 ppbv
RT: 1.881 min Scan# 51
Delta R.T. 0.000 min
Lab File: VL043323.D
Acq: 08 Dec 2025 21:23

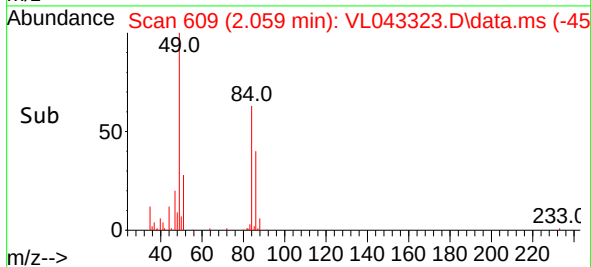
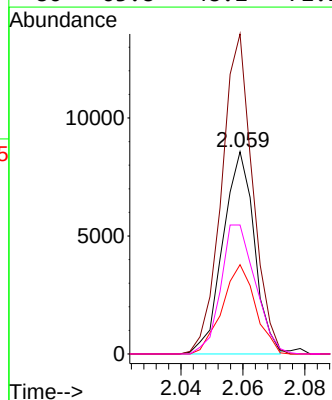
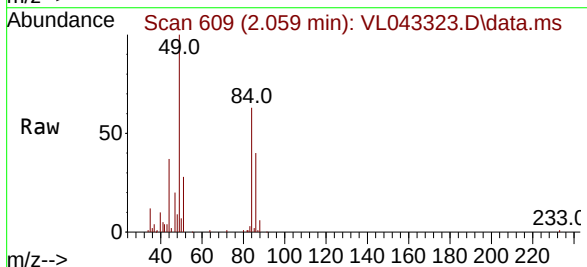
Instrument :
MSVOA_1
ClientSampleId :
10-IA-1DL2

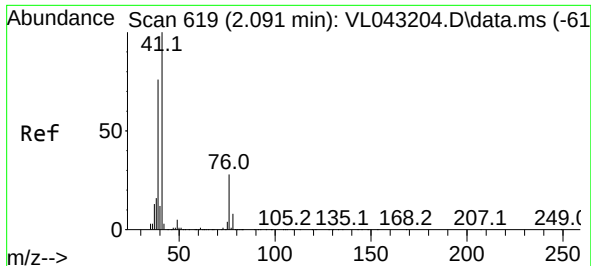
Tgt Ion: 45 Resp: 379998
Ion Ratio Lower Upper
45 100
58 92.2 31.3 46.9#



#20
Methylene Chloride
Concen: 0.420 ppbv
RT: 2.059 min Scan# 609
Delta R.T. 0.003 min
Lab File: VL043323.D
Acq: 08 Dec 2025 21:23

Tgt Ion: 84 Resp: 6035
Ion Ratio Lower Upper
84 100
49 158.2 132.9 199.3
51 44.2 34.8 52.2
86 63.8 48.2 72.2

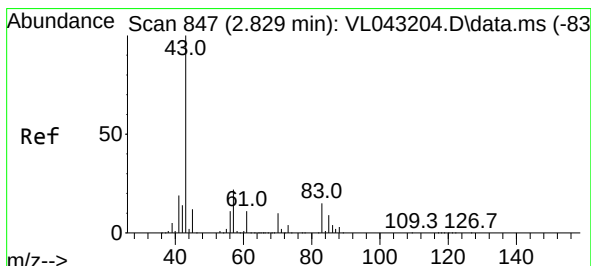
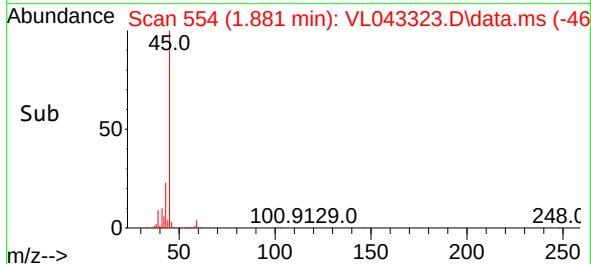
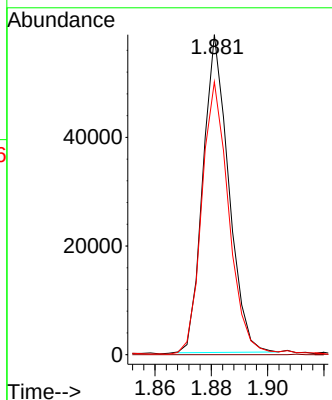
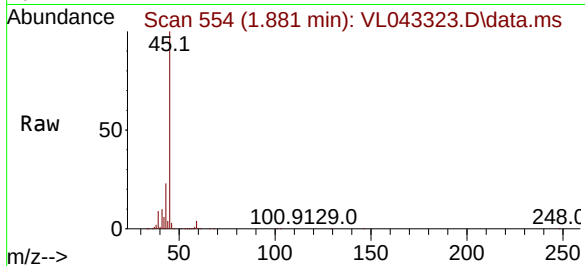




#21
 Allyl Chloride
 Concen: 3.148 ppbv
 RT: 1.881 min Scan# 511
 Delta R.T. -0.210 min
 Lab File: VL043323.D
 Acq: 08 Dec 2025 21:23

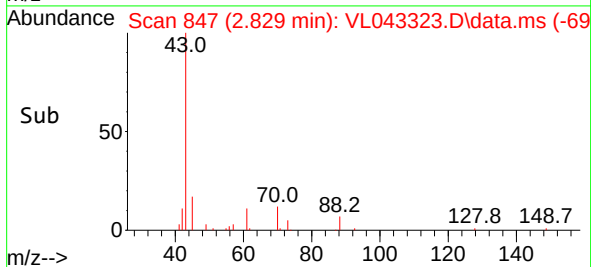
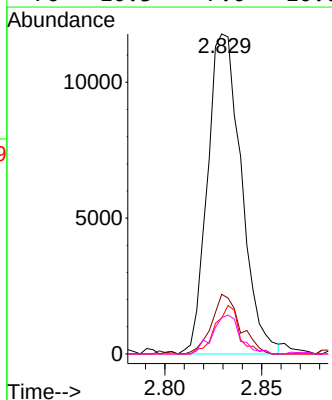
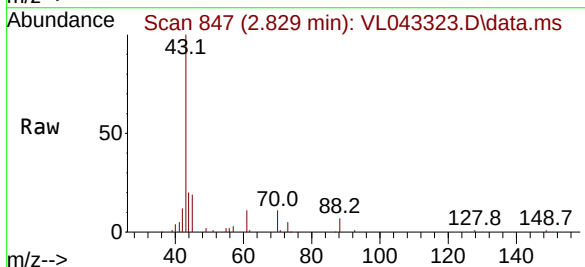
Instrument :
 MSVOA_L
 ClientSampleId :
 10-IA-1DL2

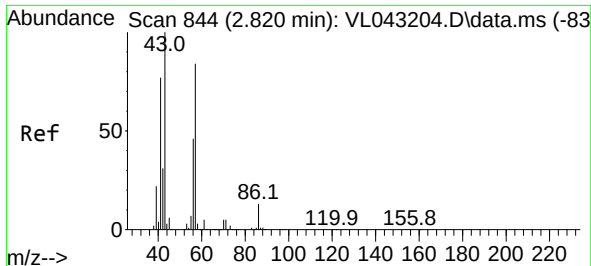
Tgt Ion: 41 Resp: 37016
 Ion Ratio Lower Upper
 41 100
 76 0.1 22.1 33.1#
 39 90.2 61.0 91.4



#25
 Ethyl Acetate
 Concen: 0.379 ppbv
 RT: 2.829 min Scan# 847
 Delta R.T. 0.000 min
 Lab File: VL043323.D
 Acq: 08 Dec 2025 21:23

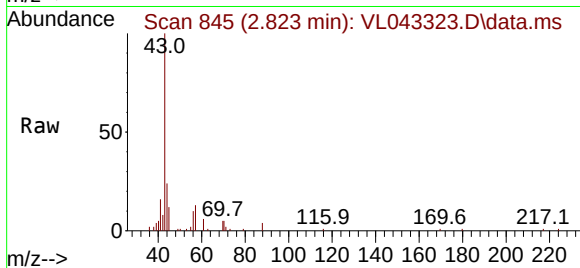
Tgt Ion: 43 Resp: 14282
 Ion Ratio Lower Upper
 43 100
 45 16.0 8.1 12.1#
 61 10.9 7.0 10.4#
 70 10.3 7.0 10.6



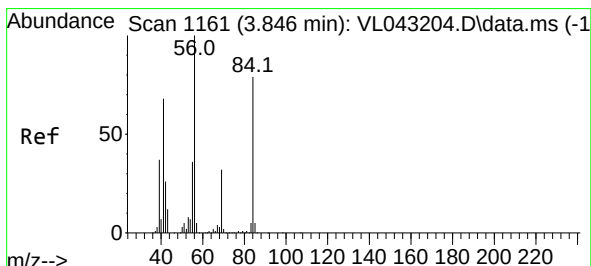
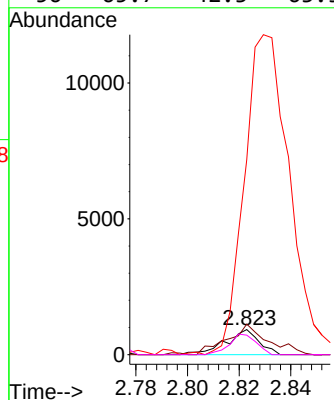
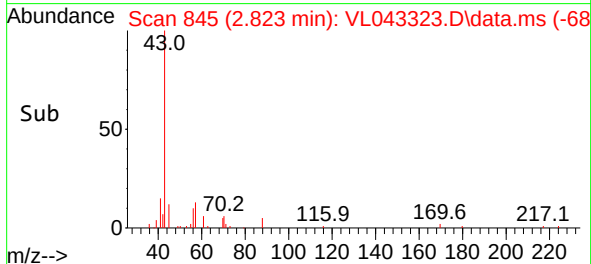


#26
Hexane
Concen: 0.051 ppbv
RT: 2.823 min Scan# 84
Delta R.T. 0.003 min
Lab File: VL043323.D
Acq: 08 Dec 2025 21:23

Instrument :
MSVOA_1
ClientSampleId :
10-IA-1DL2

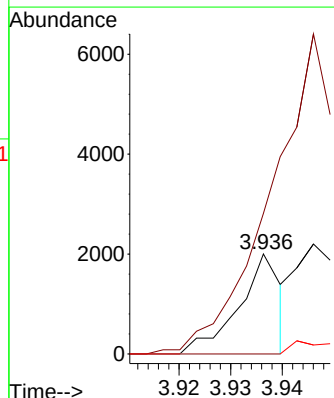
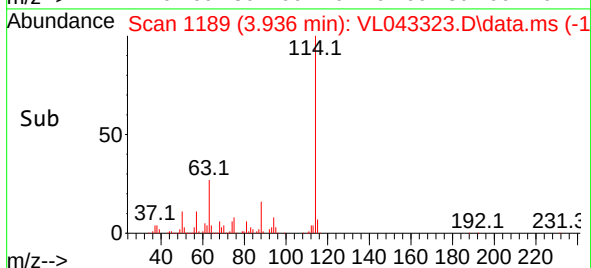
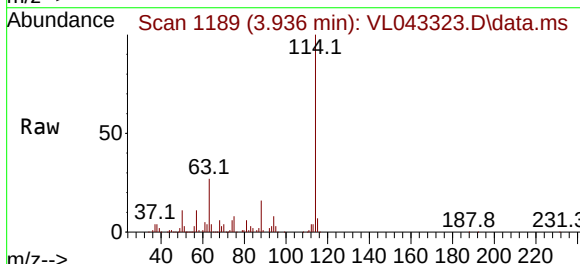


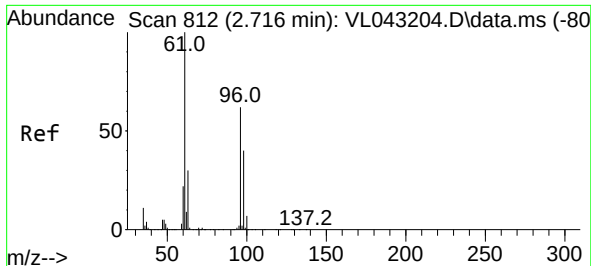
Tgt Ion: 57 Resp: 836
Ion Ratio Lower Upper
57 100
41 149.3 74.6 111.8#
43 1742.0 179.0 268.4#
56 65.7 42.3 63.5#



#30
Cyclohexane
Concen: 0.082 ppbv
RT: 3.936 min Scan# 1189
Delta R.T. 0.091 min
Lab File: VL043323.D
Acq: 08 Dec 2025 21:23

Tgt Ion: 84 Resp: 1137
Ion Ratio Lower Upper
84 100
56 0.0 104.7 157.1#
41 6.8 69.0 103.6#

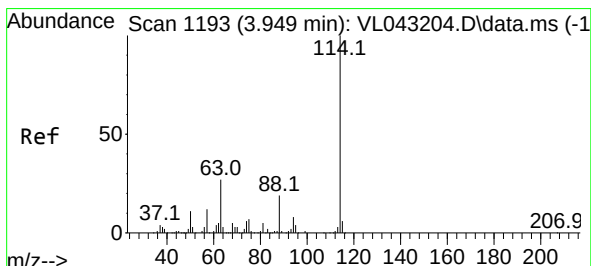
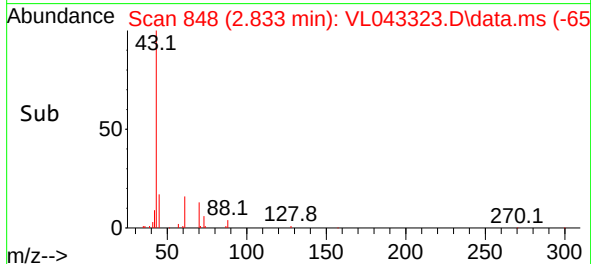
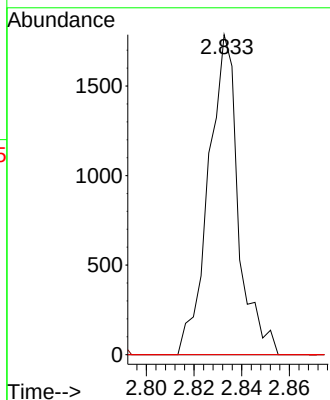
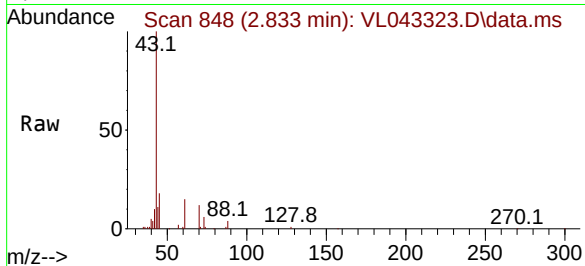




#31
 cis-1,2-Dichloroethene
 Concen: 0.095 ppbv
 RT: 2.833 min Scan# 84
 Delta R.T. 0.117 min
 Lab File: VL043323.D
 Acq: 08 Dec 2025 21:23

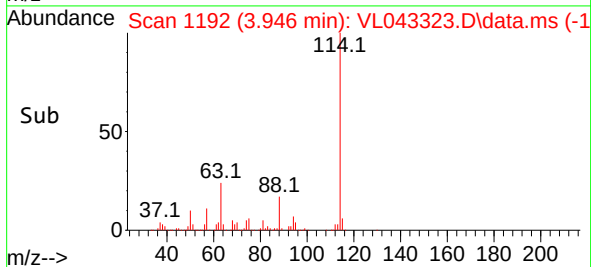
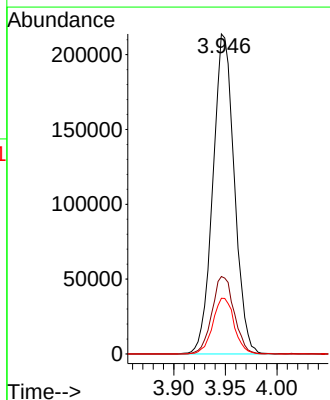
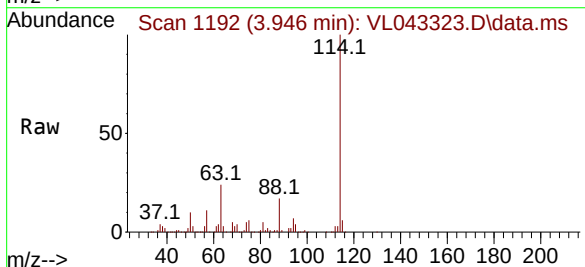
Instrument :
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 ClientSampleId :
 10-IA-1DL2

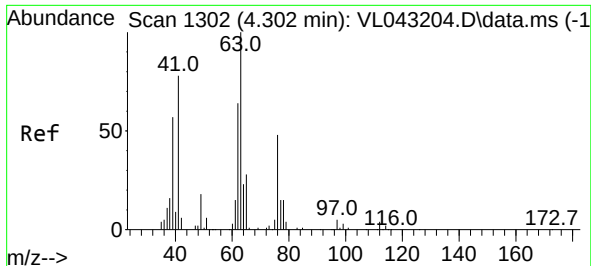
Tgt Ion: 61 Resp: 1554
 Ion Ratio Lower Upper
 61 100
 96 0.0 49.3 73.9#
 98 0.0 32.1 48.1#



#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 3.946 min Scan# 1192
 Delta R.T. -0.003 min
 Lab File: VL043323.D
 Acq: 08 Dec 2025 21:23

Tgt Ion: 114 Resp: 308632
 Ion Ratio Lower Upper
 114 100
 63 25.1 21.0 31.6
 88 17.4 14.9 22.3





#39

1,2-Dichloropropane

Concen: 7.137 ppbv

RT: 3.946 min Scan# 1192

Delta R.T. -0.356 min

Lab File: VL043323.D

Acq: 08 Dec 2025 21:23

Instrument :

MSVOA_1

ClientSampleId :

10-IA-1DL2

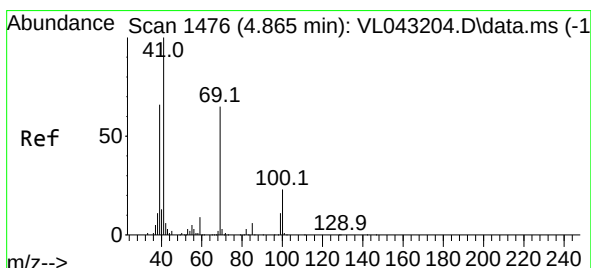
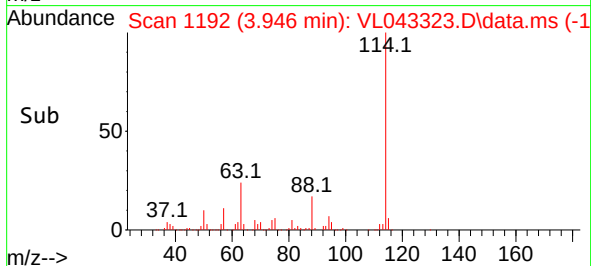
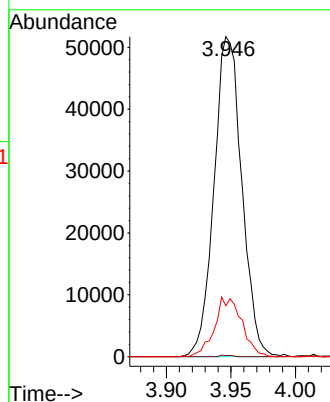
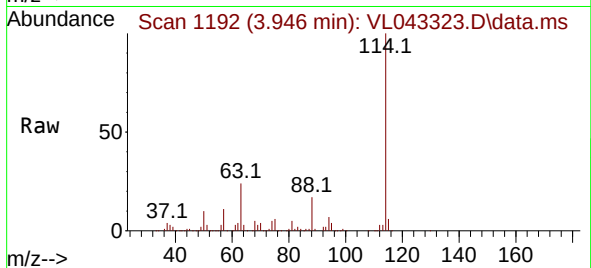
Tgt Ion: 63 Resp: 77207

Ion Ratio Lower Upper

63 100

41 0.3 62.6 93.8#

62 15.9 51.0 76.6#



#43

Methyl Methacrylate

Concen: 0.151 ppbv

RT: 4.865 min Scan# 1476

Delta R.T. 0.000 min

Lab File: VL043323.D

Acq: 08 Dec 2025 21:23

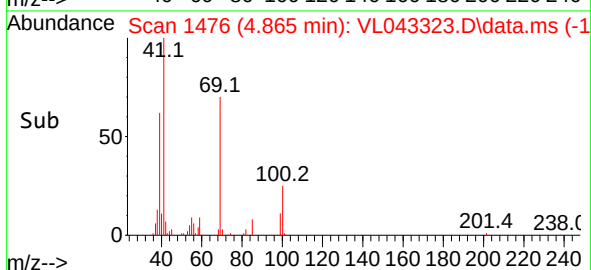
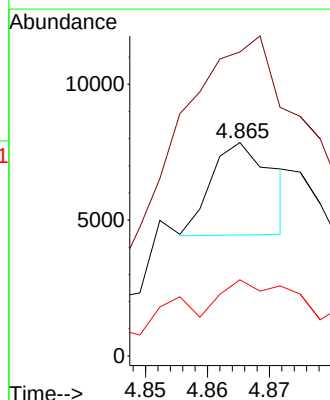
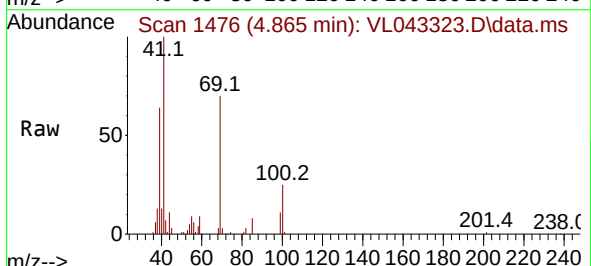
Tgt Ion: 69 Resp: 2369

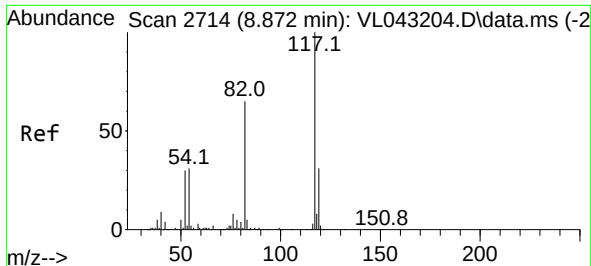
Ion Ratio Lower Upper

69 100

41 983.9 126.7 190.1#

100 227.7 28.6 43.0#

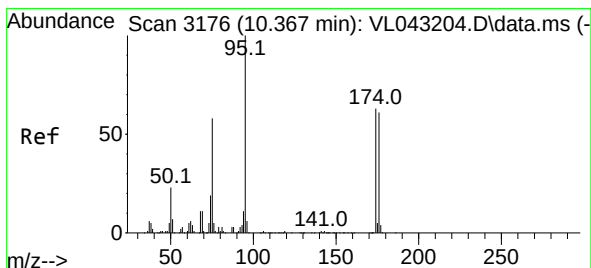
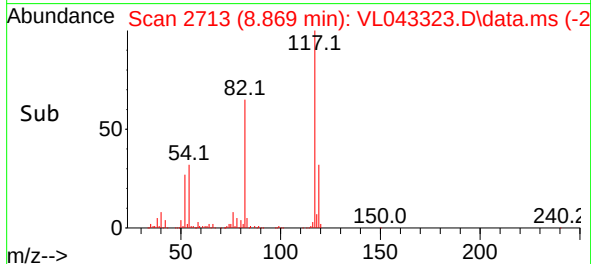
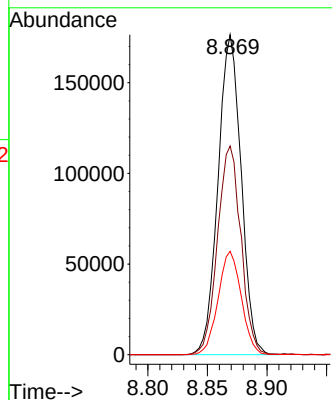
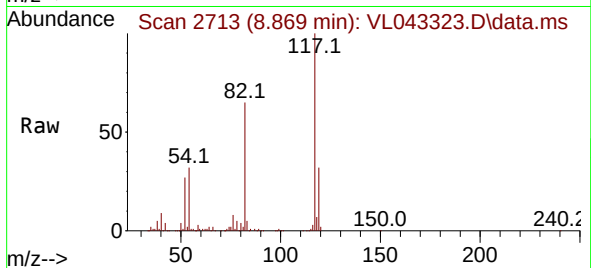




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.869 min Scan# 21
Delta R.T. -0.003 min
Lab File: VL043323.D
Acq: 08 Dec 2025 21:23

Instrument :
MSVOA_1
ClientSampleId :
10-IA-1DL2

Tgt Ion:117 Resp: 237899
Ion Ratio Lower Upper
117 100
82 66.1 56.1 84.1
119 32.5 25.0 37.6



#68
1-Bromo-4-Fluorobenzene
Concen: 9.563 ppbv
RT: 10.364 min Scan# 3175
Delta R.T. -0.003 min
Lab File: VL043323.D
Acq: 08 Dec 2025 21:23

Tgt Ion: 95 Resp: 166753
Ion Ratio Lower Upper
95 100
174 69.0 50.2 75.2
175 5.1 4.1 6.1

