

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL120825\
 Data File : VL043322.D
 Acq On : 08 Dec 2025 20:50
 Operator : SY/MD
 Sample : Q3799-03DL 10X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 10-IA-1DL

Quant Time: Dec 09 00:15:57 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)

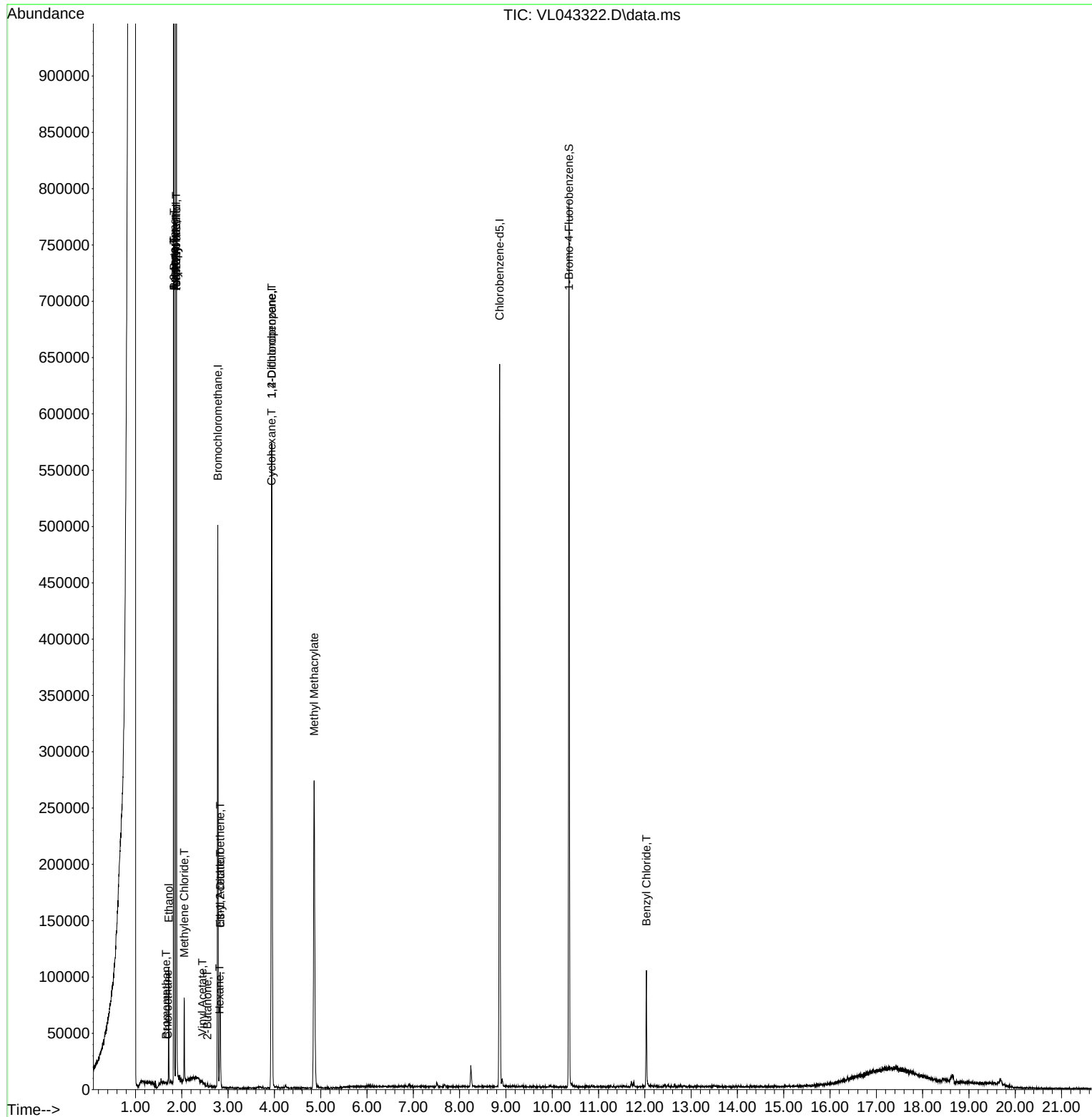
Internal Standards						
1) Bromochloromethane	2.778	49	129360	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.943	114	324163	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.866	117	261825	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.361	95	186988	9.743	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.400%
Target Compounds						
					Qvalue	
6) Bromomethane	1.661	94	142	0.039	ppbv #	4
7) Chloroethane	1.700	64	99	0.034	ppbv #	41
9) Propene	1.829	41	102461	13.447	ppbv #	1
13) Ethanol	1.716	45	34680	12.944	ppbv	100
15) Acetone	1.829	43	2615938	145.553	ppbv #	66
16) 1,3-Butadiene	1.829	39	187613	23.415	ppbv #	13
17) tert-Butyl alcohol	1.881	59	52596	2.230	ppbv #	94
19) Isopropyl Alcohol	1.878	45	1280827	126.119	ppbv #	20
20) Methylene Chloride	2.056	84	11227	1.449	ppbv	86
21) Allyl Chloride	1.878	41	127127	10.514	ppbv #	78
23) Vinyl Acetate	2.444	43	797	0.037	ppbv #	69
25) Ethyl Acetate	2.829	43	67451	1.740	ppbv #	92
26) Hexane	2.813	57	3374	0.199	ppbv #	1
30) Cyclohexane	3.936	84	1731	0.121	ppbv #	1
31) cis-1,2-Dichloroethene	2.829	61	7496	0.444	ppbv #	26
34) 2-Butanone	2.551	43	1928	0.084	ppbv #	85
39) 1,2-Dichloropropane	3.943	63	82406	7.253	ppbv #	22
43) Methyl Methacrylate	4.859	69	94519	5.736	ppbv	96
66) Benzyl Chloride	12.034	91	6966	1.064	ppbv #	65

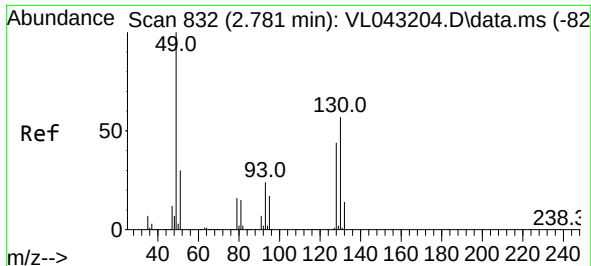
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Instrument :
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Quant Time: Dec 09 00:15:57 2025
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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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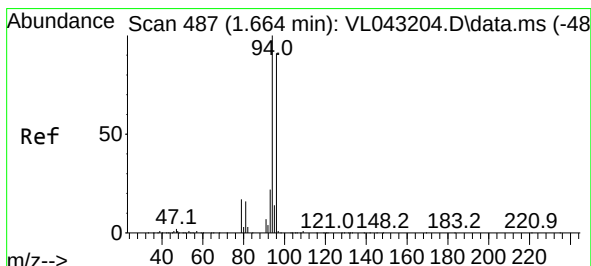
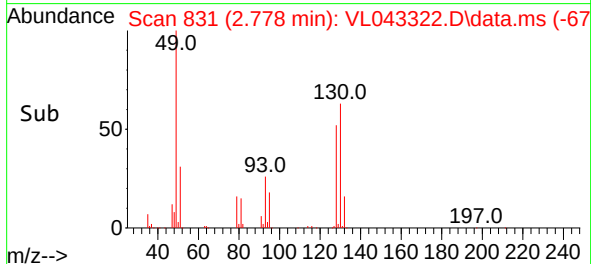
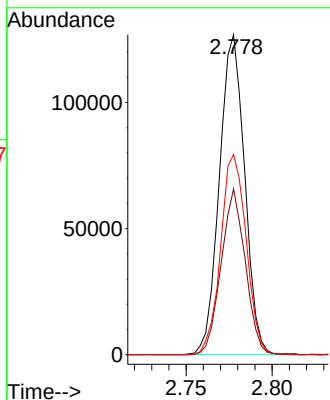
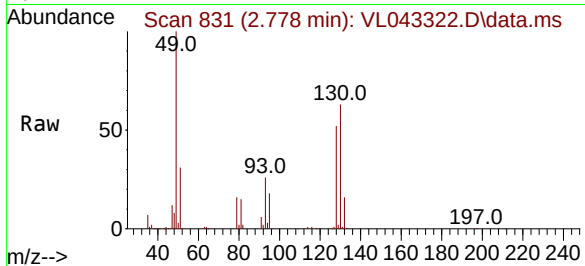




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.778 min Scan# 81
Delta R.T. -0.003 min
Lab File: VL043322.D
Acq: 08 Dec 2025 20:50

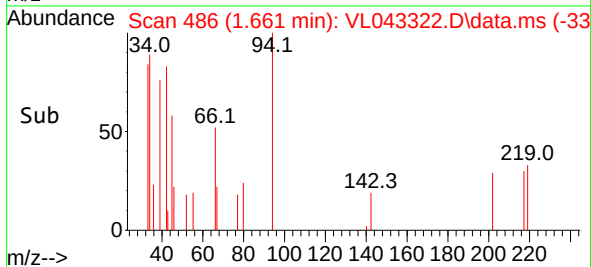
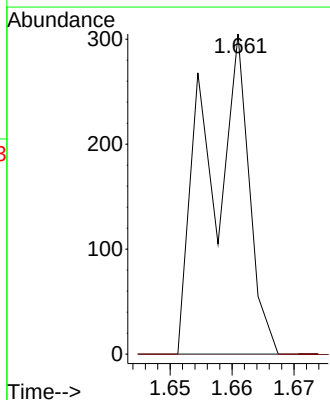
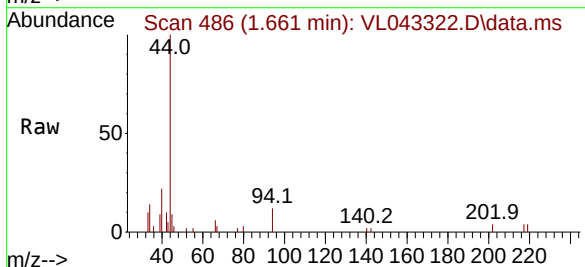
Instrument :
MSVOA_L
ClientSampleId :
10-IA-1DL

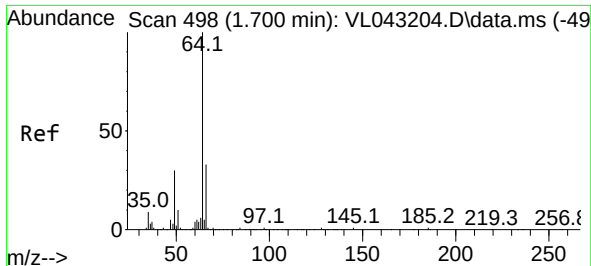
Tgt Ion: 49 Resp: 129360
Ion Ratio Lower Upper
49 100
128 49.5 23.0 69.0
130 63.4 29.9 89.7



#6
Bromomethane
Concen: 0.039 ppbv
RT: 1.661 min Scan# 486
Delta R.T. -0.003 min
Lab File: VL043322.D
Acq: 08 Dec 2025 20:50

Tgt Ion: 94 Resp: 142
Ion Ratio Lower Upper
94 100
96 0.0 72.9 109.3#

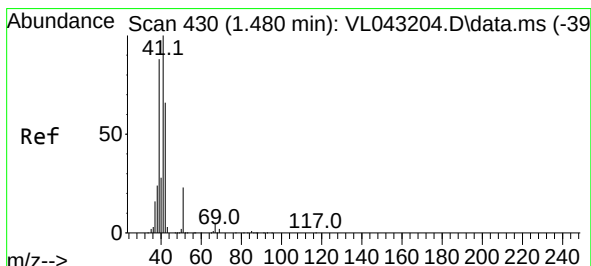
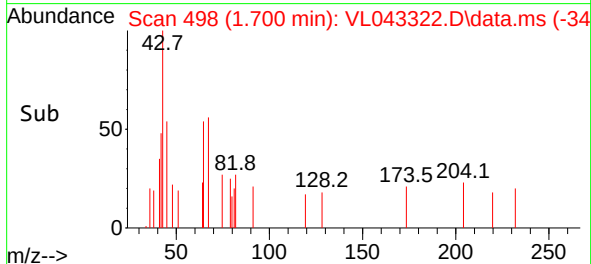
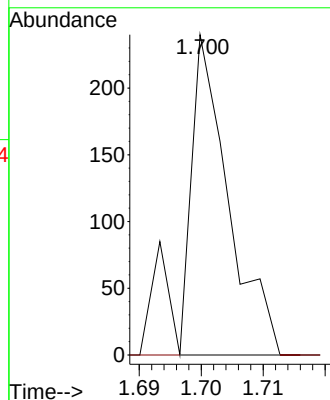
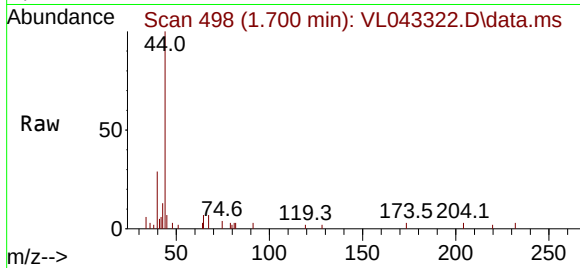




#7
Chloroethane
Concen: 0.034 ppbv
RT: 1.700 min Scan# 498
Delta R.T. 0.000 min
Lab File: VL043322.D
Acq: 08 Dec 2025 20:50

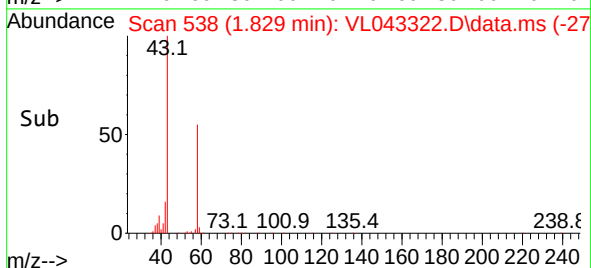
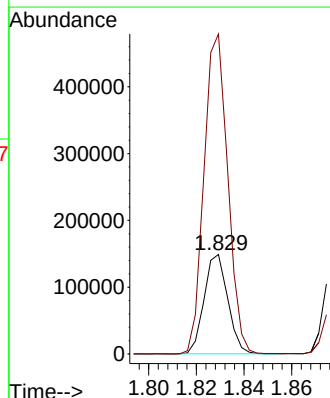
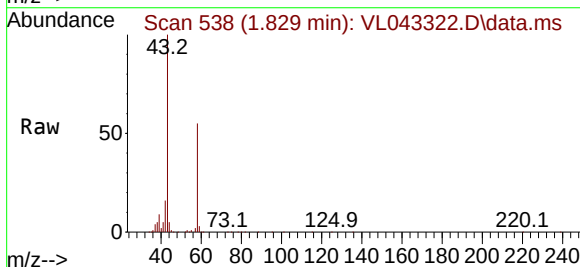
Instrument :
MSVOA_1
ClientSampleId :
10-IA-1DL

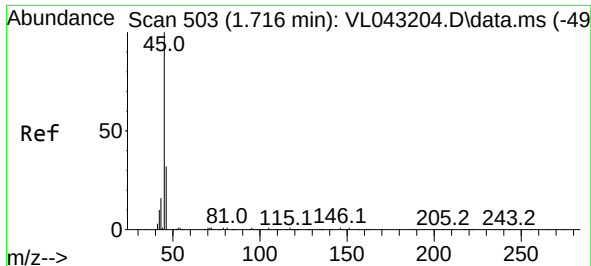
Tgt Ion: 64 Resp: 99
Ion Ratio Lower Upper
64 100
66 0.0 26.8 40.2#



#9
Propene
Concen: 13.447 ppbv
RT: 1.829 min Scan# 538
Delta R.T. 0.350 min
Lab File: VL043322.D
Acq: 08 Dec 2025 20:50

Tgt Ion: 41 Resp: 102461
Ion Ratio Lower Upper
41 100
42 325.0 3.7 5.5#

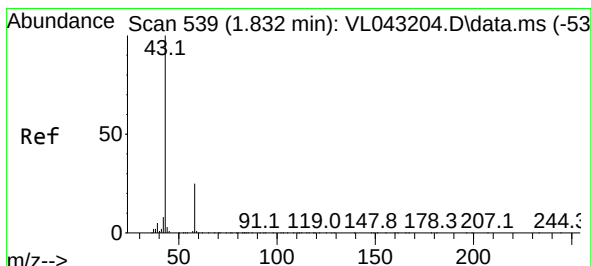
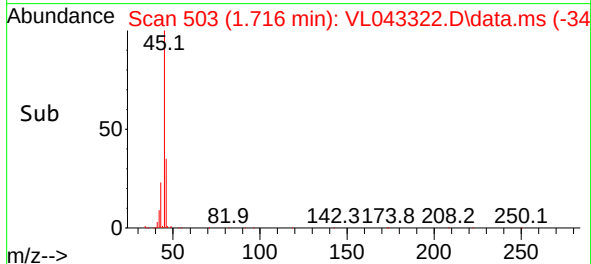
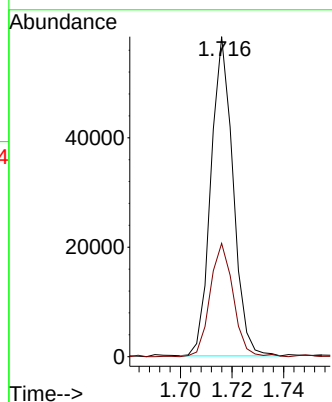
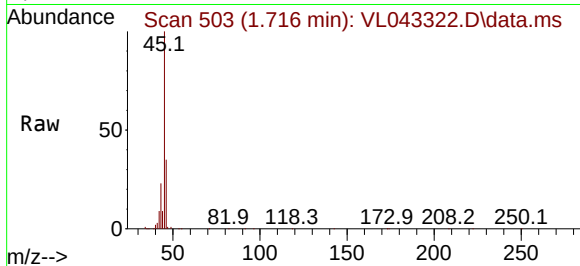




#13
Ethanol
Concen: 12.944 ppbv
RT: 1.716 min Scan# 503
Delta R.T. 0.000 min
Lab File: VL043322.D
Acq: 08 Dec 2025 20:50

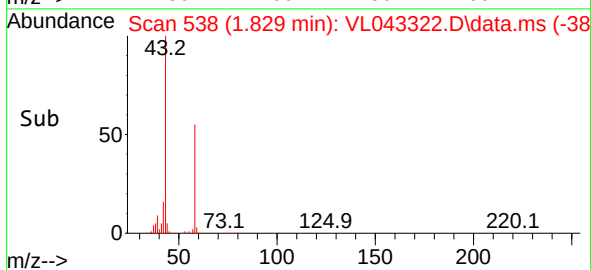
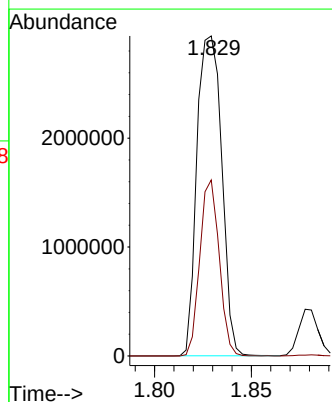
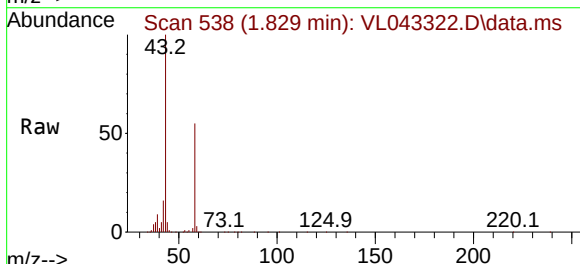
Instrument :
MSVOA_L
ClientSampleId :
10-IA-1DL

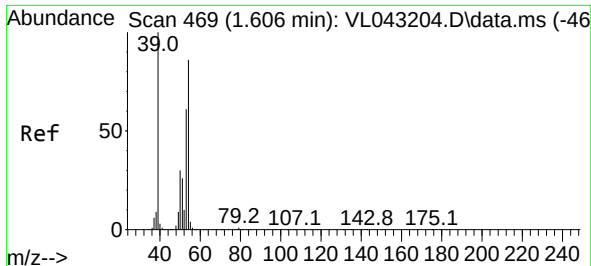
Tgt Ion: 45 Resp: 34680
Ion Ratio Lower Upper
45 100
46 37.5 15.0 59.8



#15
Acetone
Concen: 145.553 ppbv
RT: 1.829 min Scan# 538
Delta R.T. -0.003 min
Lab File: VL043322.D
Acq: 08 Dec 2025 20:50

Tgt Ion: 43 Resp: 2615938
Ion Ratio Lower Upper
43 100
58 43.0 20.7 31.1#

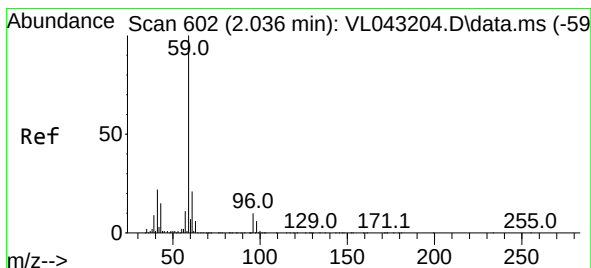
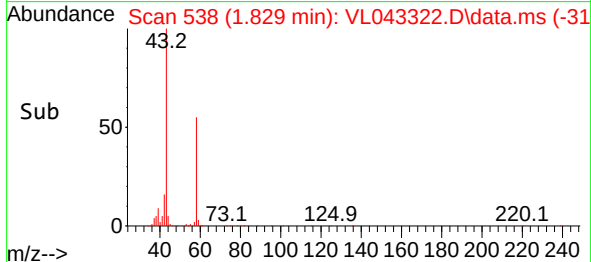
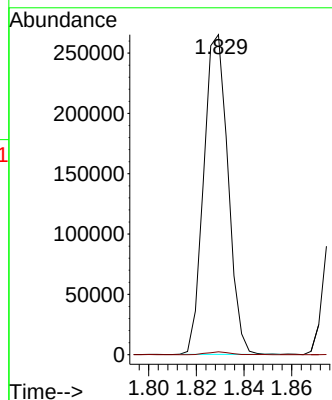
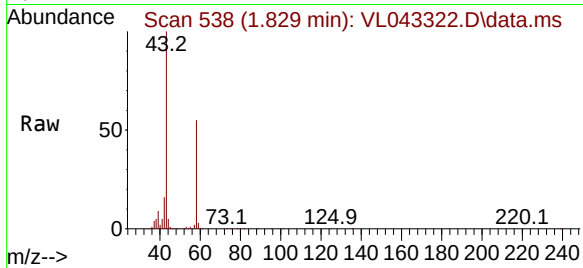




#16
1,3-Butadiene
Concen: 23.415 ppbv
RT: 1.829 min Scan# 51
Delta R.T. 0.223 min
Lab File: VL043322.D
Acq: 08 Dec 2025 20:50

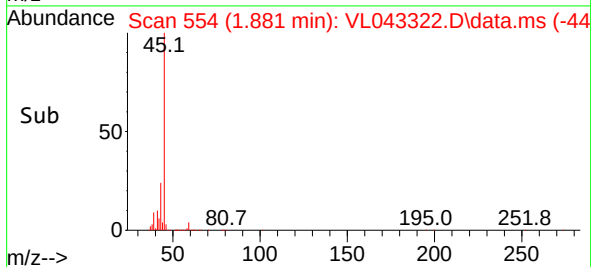
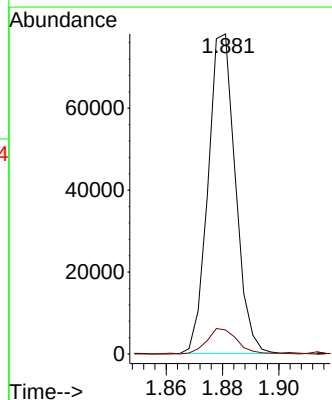
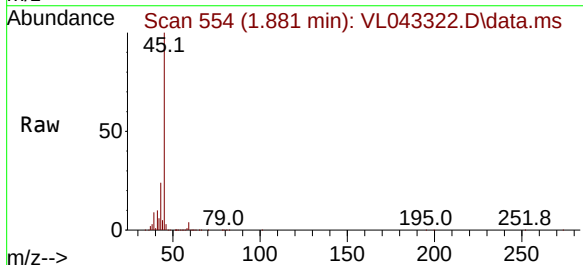
Instrument :
MSVOA_L
ClientSampleId :
10-IA-1DL

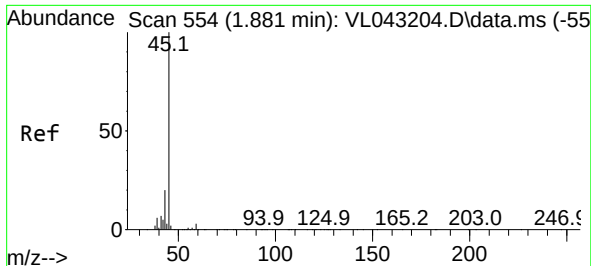
Tgt Ion: 39 Resp: 187613
Ion Ratio Lower Upper
39 100
54 0.8 59.4 89.2#



#17
tert-Butyl alcohol
Concen: 2.230 ppbv
RT: 1.881 min Scan# 554
Delta R.T. -0.155 min
Lab File: VL043322.D
Acq: 08 Dec 2025 20:50

Tgt Ion: 59 Resp: 52596
Ion Ratio Lower Upper
59 100
57 8.9 9.0 13.4#

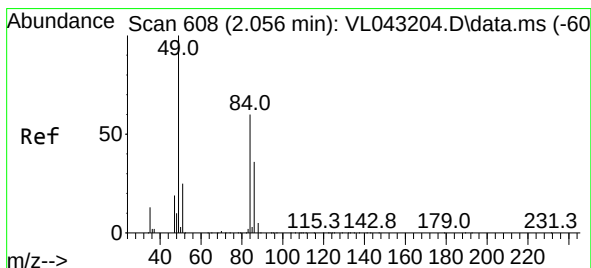
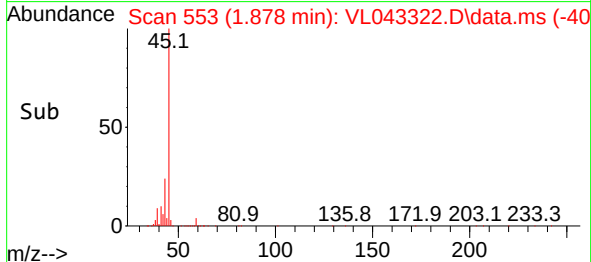
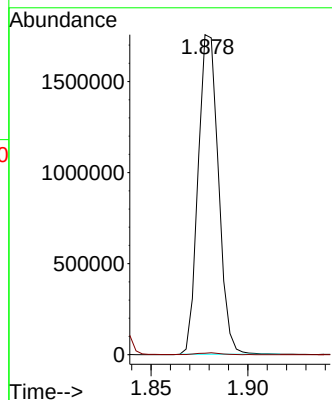
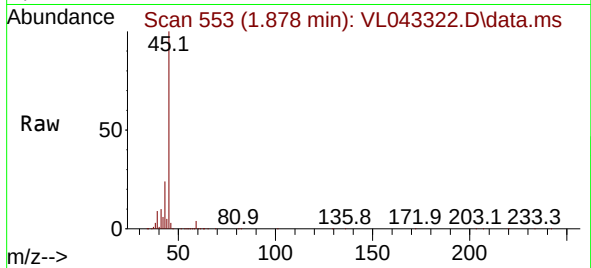




#19
Isopropyl Alcohol
Concen: 126.119 ppbv
RT: 1.878 min Scan# 511
Delta R.T. -0.003 min
Lab File: VL043322.D
Acq: 08 Dec 2025 20:50

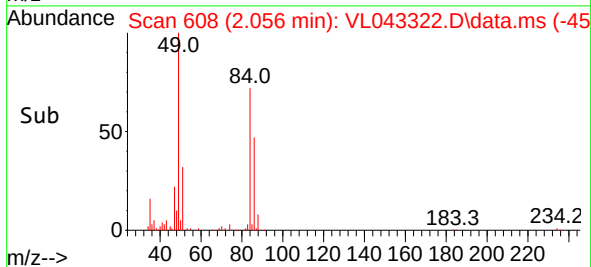
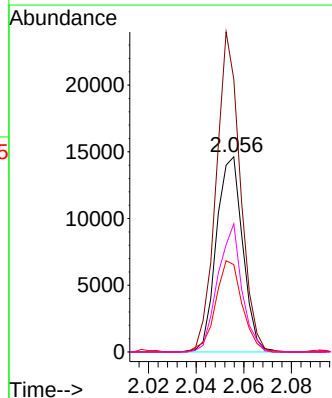
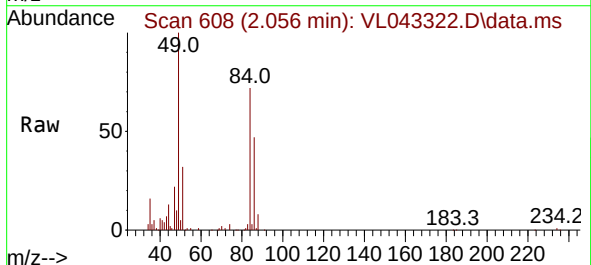
Instrument :
MSVOA_1
ClientSampleId :
10-IA-1DL

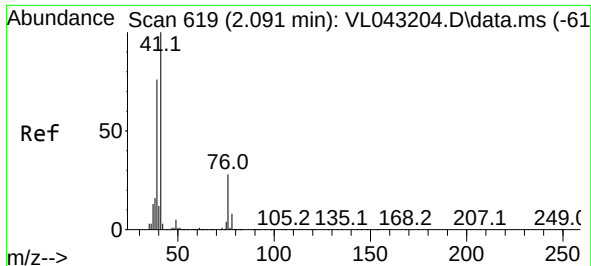
Tgt Ion: 45 Resp: 1280827
Ion Ratio Lower Upper
45 100
58 87.9 31.3 46.9#



#20
Methylene Chloride
Concen: 1.449 ppbv
RT: 2.056 min Scan# 608
Delta R.T. -0.000 min
Lab File: VL043322.D
Acq: 08 Dec 2025 20:50

Tgt Ion: 84 Resp: 11227
Ion Ratio Lower Upper
84 100
49 139.7 132.9 199.3
51 44.7 34.8 52.2
86 65.6 48.2 72.2

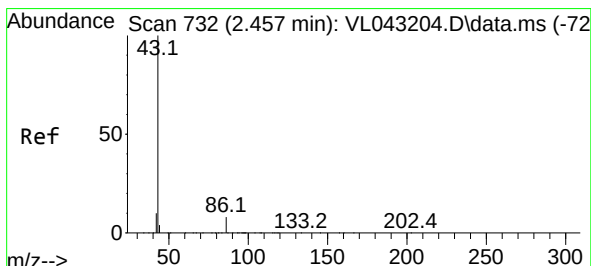
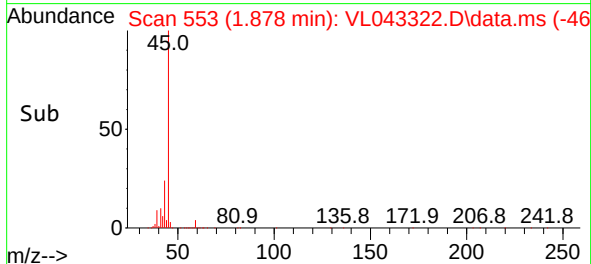
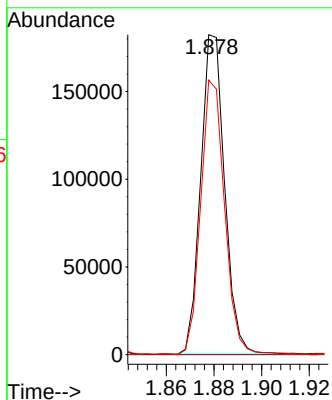
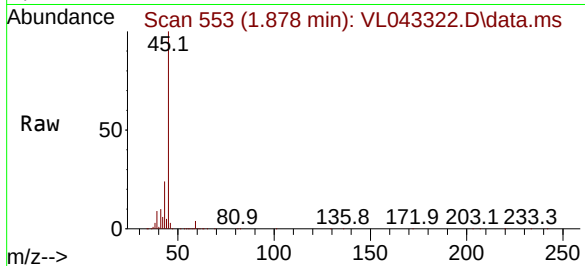




#21
Allyl Chloride
Concen: 10.514 ppbv
RT: 1.878 min Scan# 51
Delta R.T. -0.214 min
Lab File: VL043322.D
Acq: 08 Dec 2025 20:50

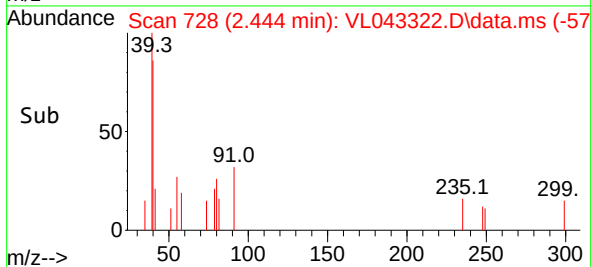
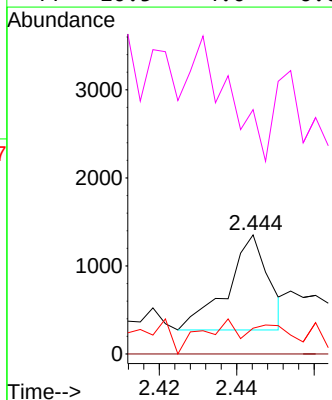
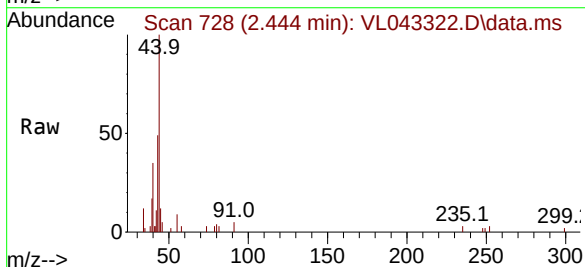
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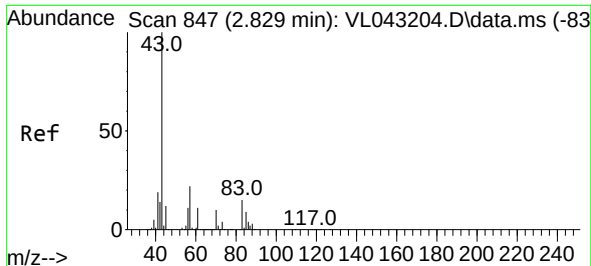
Tgt Ion: 41 Resp: 127127
Ion Ratio Lower Upper
41 100
76 0.0 22.1 33.1#
39 85.7 61.0 91.4



#23
Vinyl Acetate
Concen: 0.037 ppbv
RT: 2.444 min Scan# 728
Delta R.T. -0.013 min
Lab File: VL043322.D
Acq: 08 Dec 2025 20:50

Tgt Ion: 43 Resp: 797
Ion Ratio Lower Upper
43 100
86 0.0 6.2 9.2#
42 27.1 8.0 12.0#
44 10.5 4.0 6.0#

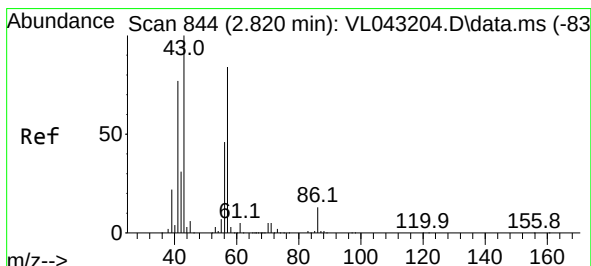
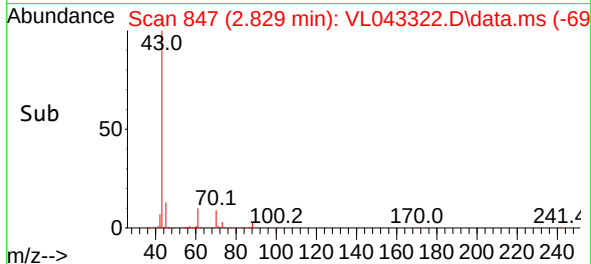
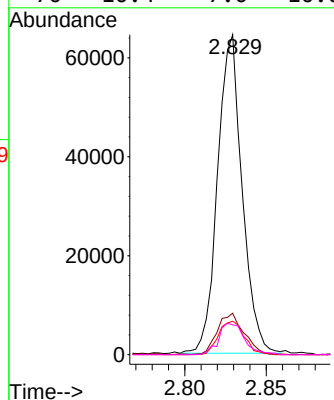
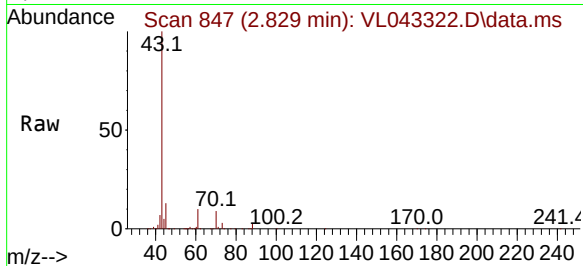




#25
Ethyl Acetate
Concen: 1.740 ppbv
RT: 2.829 min Scan# 847
Delta R.T. 0.000 min
Lab File: VL043322.D
Acq: 08 Dec 2025 20:50

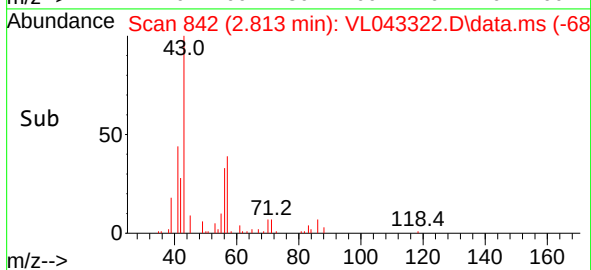
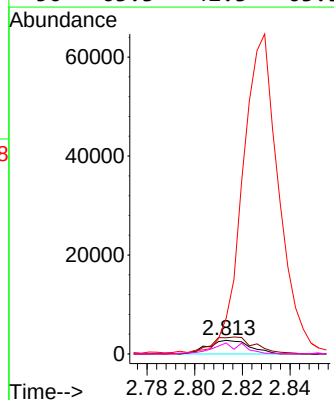
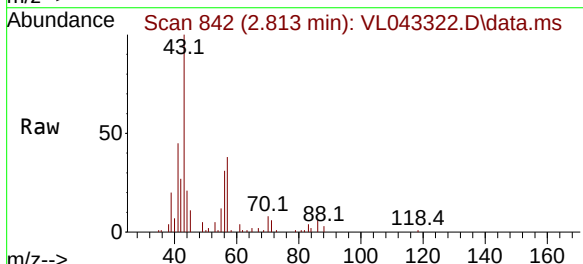
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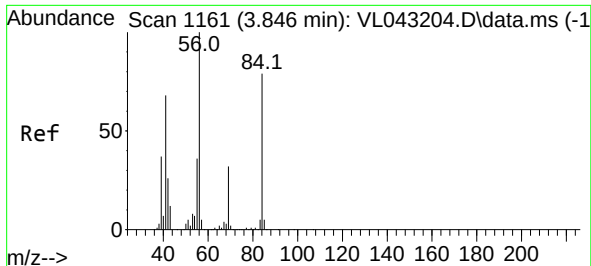
Tgt Ion: 43 Resp: 67451
Ion Ratio Lower Upper
43 100
45 14.3 8.1 12.1#
61 11.1 7.0 10.4#
70 10.4 7.0 10.6



#26
Hexane
Concen: 0.199 ppbv
RT: 2.813 min Scan# 842
Delta R.T. -0.006 min
Lab File: VL043322.D
Acq: 08 Dec 2025 20:50

Tgt Ion: 57 Resp: 3374
Ion Ratio Lower Upper
57 100
41 134.5 74.6 111.8#
43 2066.1 179.0 268.4#
56 63.3 42.3 63.5

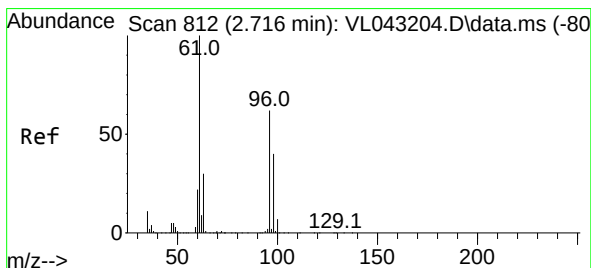
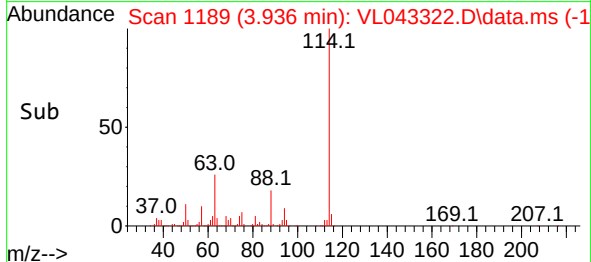
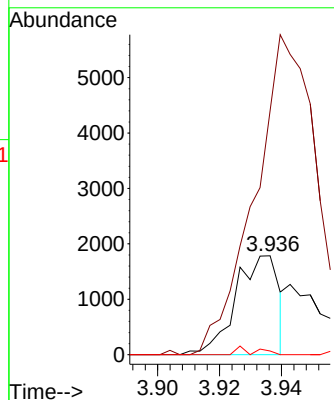
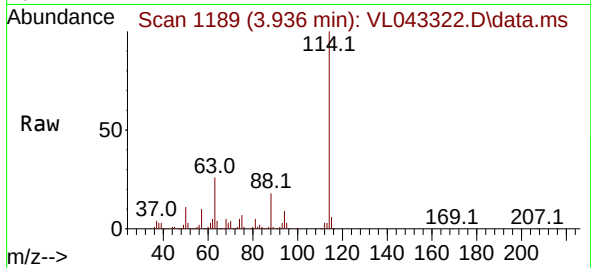




#30
Cyclohexane
Concen: 0.121 ppbv
RT: 3.936 min Scan# 1161
Delta R.T. 0.091 min
Lab File: VL043322.D
Acq: 08 Dec 2025 20:50

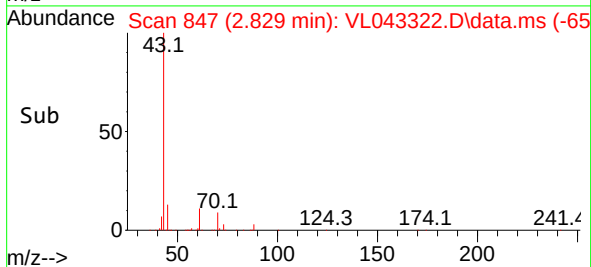
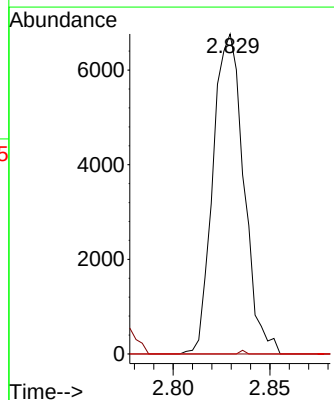
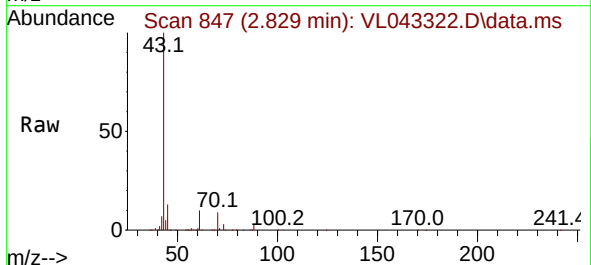
Instrument :
MSVOA_L
ClientSampleId :
10-IA-1DL

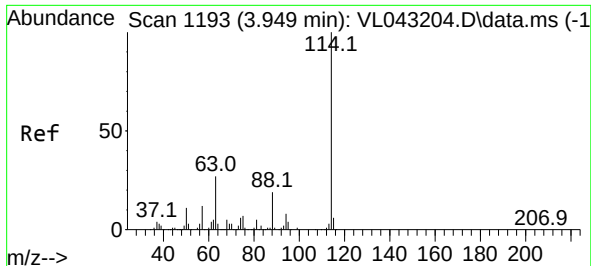
Tgt Ion: 84 Resp: 1731
Ion Ratio Lower Upper
84 100
56 0.0 104.7 157.1#
41 3.6 69.0 103.6#



#31
cis-1,2-Dichloroethene
Concen: 0.444 ppbv
RT: 2.829 min Scan# 847
Delta R.T. 0.113 min
Lab File: VL043322.D
Acq: 08 Dec 2025 20:50

Tgt Ion: 61 Resp: 7496
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: 3.943 min Scan# 1191

Delta R.T. -0.006 min

Lab File: VL043322.D

Acq: 08 Dec 2025 20:50

Instrument :

MSVOA_L

ClientSampleId :

10-IA-1DL

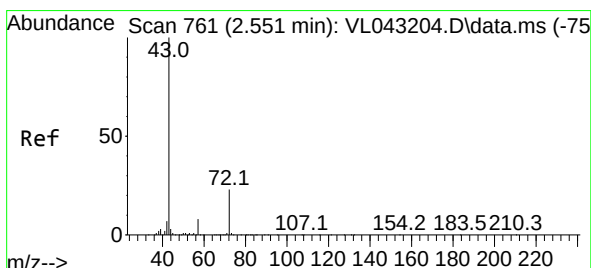
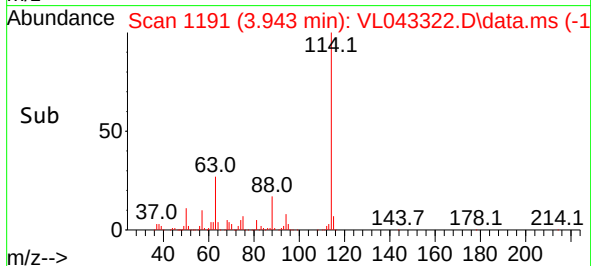
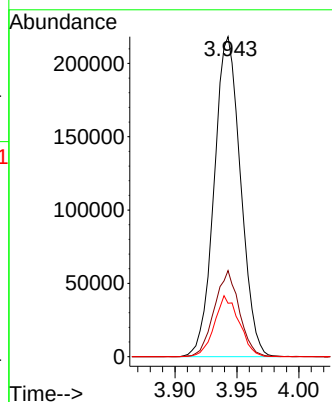
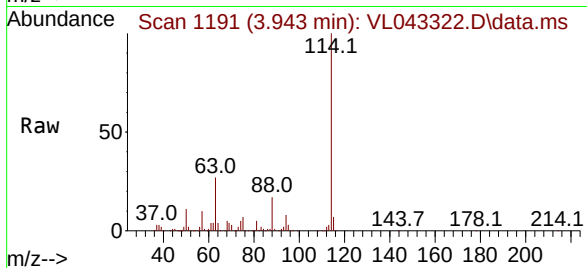
Tgt Ion:114 Resp: 324163

Ion Ratio Lower Upper

114 100

63 25.5 21.0 31.6

88 17.9 14.9 22.3



#34

2-Butanone

Concen: 0.084 ppbv

RT: 2.551 min Scan# 761

Delta R.T. 0.000 min

Lab File: VL043322.D

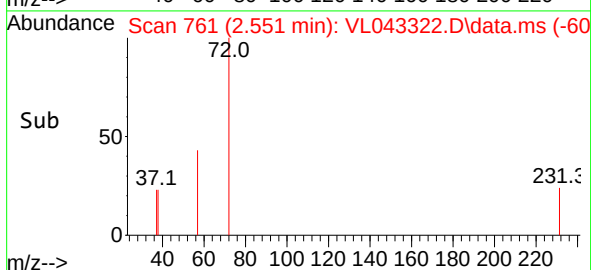
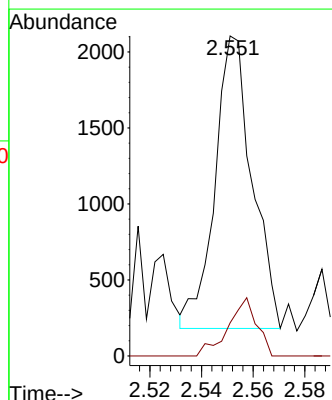
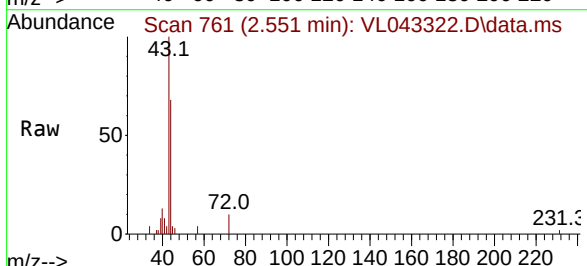
Acq: 08 Dec 2025 20:50

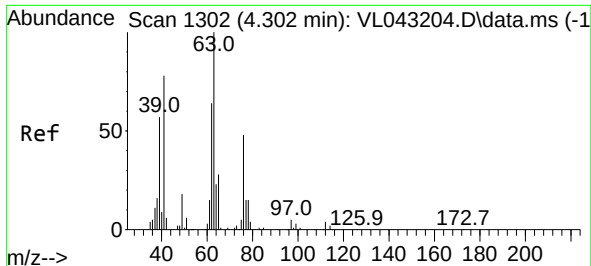
Tgt Ion: 43 Resp: 1928

Ion Ratio Lower Upper

43 100

72 15.3 18.1 27.1#





#39

1,2-Dichloropropane

Concen: 7.253 ppbv

RT: 3.943 min Scan# 1191

Delta R.T. -0.359 min

Lab File: VL043322.D

Acq: 08 Dec 2025 20:50

Instrument :

MSVOA_L

ClientSampleId :

10-IA-1DL

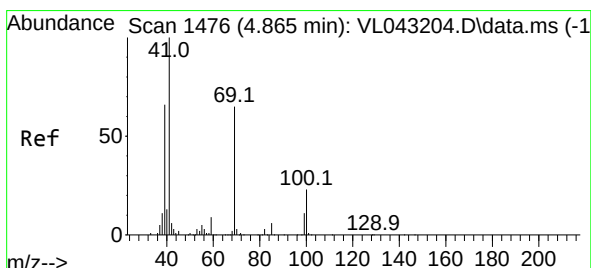
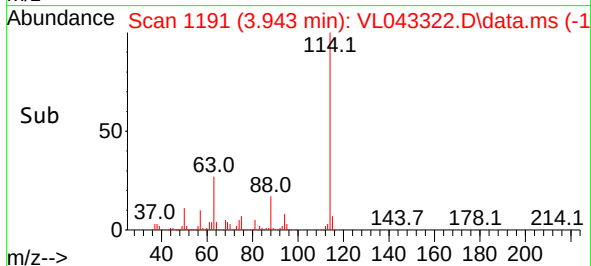
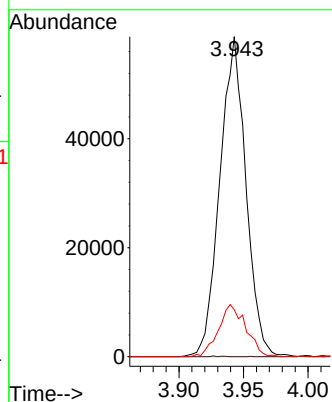
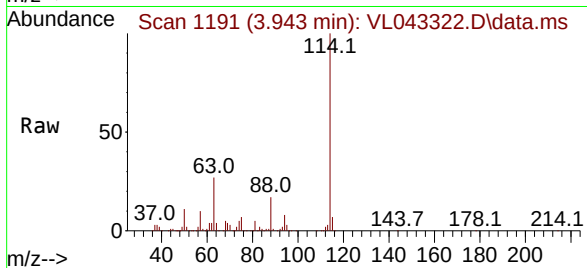
Tgt Ion: 63 Resp: 82406

Ion Ratio Lower Upper

63 100

41 0.0 62.6 93.8#

62 14.7 51.0 76.6#



#43

Methyl Methacrylate

Concen: 5.736 ppbv

RT: 4.859 min Scan# 1474

Delta R.T. -0.006 min

Lab File: VL043322.D

Acq: 08 Dec 2025 20:50

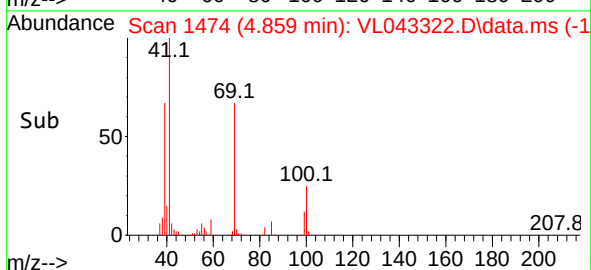
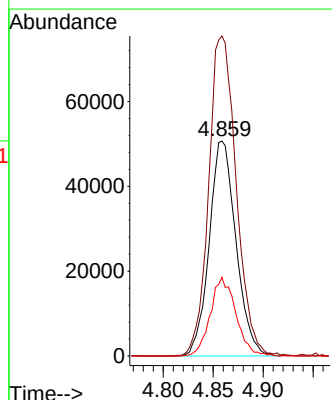
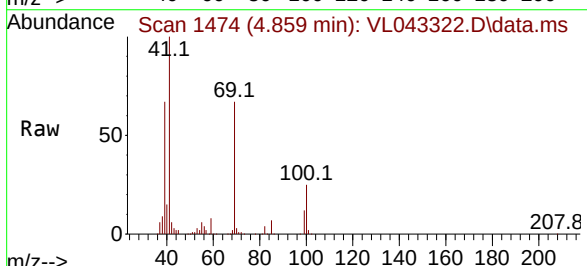
Tgt Ion: 69 Resp: 94519

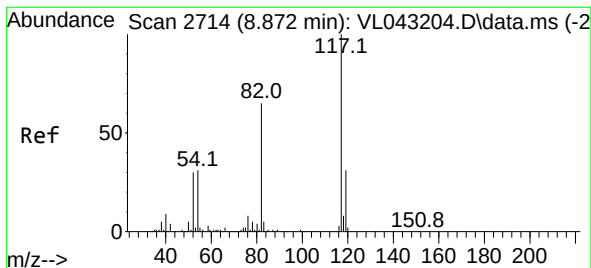
Ion Ratio Lower Upper

69 100

41 152.9 126.7 190.1

100 34.9 28.6 43.0





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.866 min Scan# 21

Delta R.T. -0.006 min

Lab File: VL043322.D

Acq: 08 Dec 2025 20:50

Instrument :

MSVOA_1

ClientSampleId :

10-IA-1DL

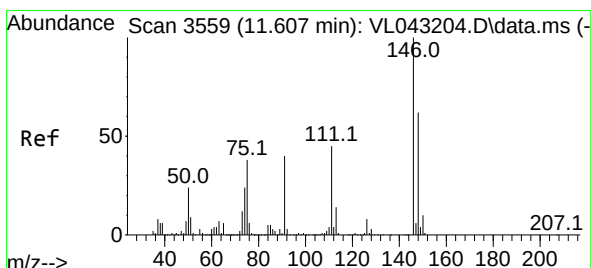
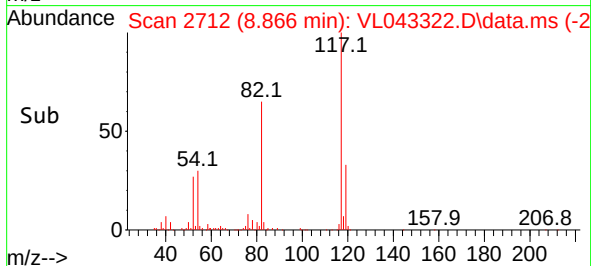
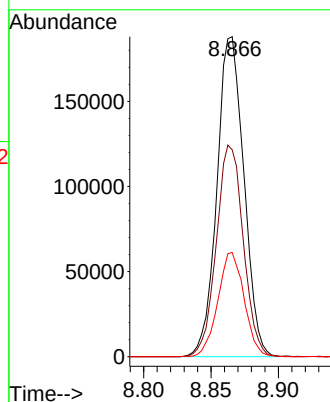
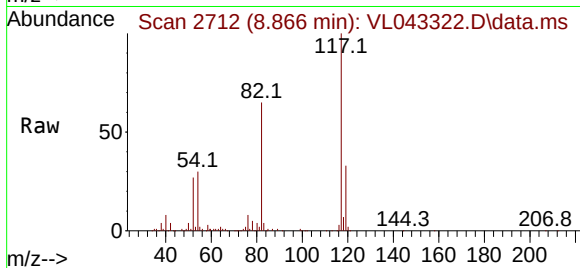
Tgt Ion:117 Resp: 261825

Ion Ratio Lower Upper

117 100

82 66.1 56.1 84.1

119 31.8 25.0 37.6



#66

Benzyl Chloride

Concen: 1.064 ppbv

RT: 12.034 min Scan# 3691

Delta R.T. 0.427 min

Lab File: VL043322.D

Acq: 08 Dec 2025 20:50

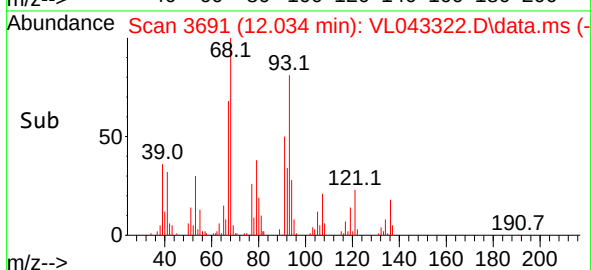
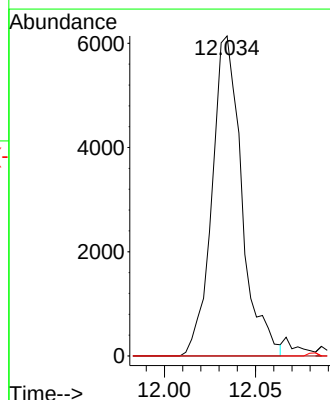
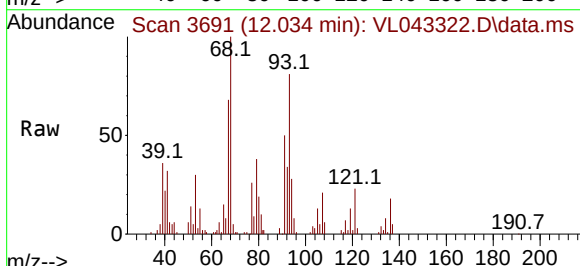
Tgt Ion: 91 Resp: 6966

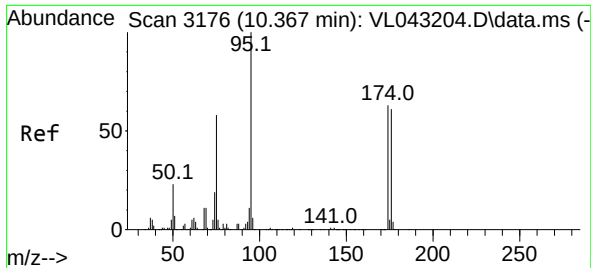
Ion Ratio Lower Upper

91 100

126 0.0 14.4 21.6#

128 0.0 4.6 6.8#





#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.743 ppbv
 RT: 10.361 min Scan# 3174
 Delta R.T. -0.006 min
 Lab File: VL043322.D
 Acq: 08 Dec 2025 20:50

Instrument :
 MSVOA_L
 ClientSampleId :
 10-IA-1DL

Tgt Ion: 95 Resp: 186988
 Ion Ratio Lower Upper
 95 100
 174 69.2 50.2 75.2
 175 4.9 4.1 6.1

