

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111925\
 Data File : VL043248.D
 Acq On : 19 Nov 2025 20:25
 Operator : SY/MD
 Sample : Q3626-01DL 5X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 9A-SG-1DL

Quant Time: Nov 20 00:10:16 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 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)

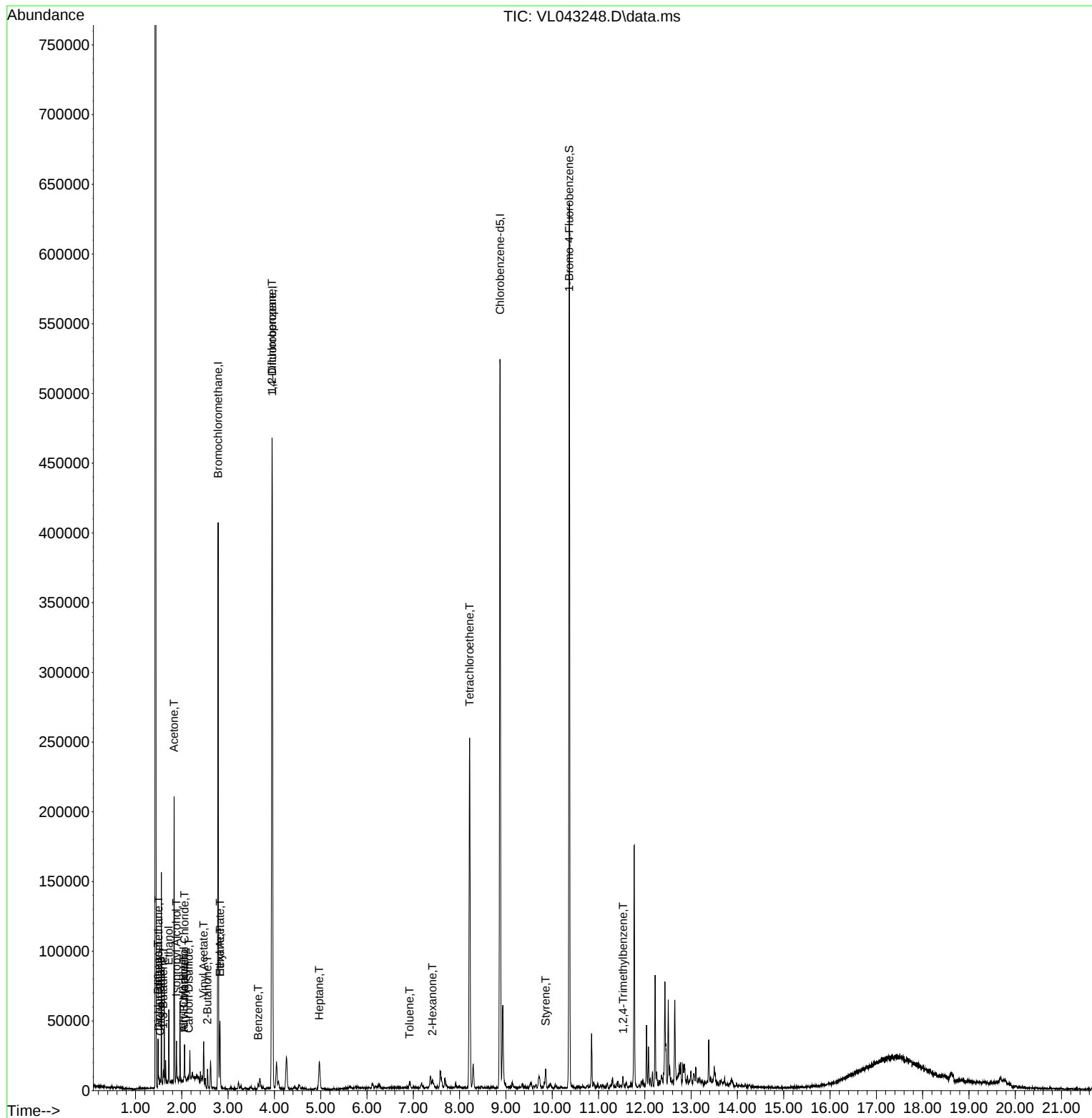
Internal Standards						
1) Bromochloromethane	2.784	49	101838	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.952	114	273802	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.872	117	211877	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.367	95	156816	10.097	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.000%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.499	85	1470	0.102	ppbv	99
4) Chloromethane	1.531	50	801	0.149	ppbv #	64
9) Propene	1.486	41	4449	0.742	ppbv #	1
10) Heptane	4.965	43	3183	0.178	ppbv #	28
13) Ethanol	1.719	45	18211	8.634	ppbv	98
15) Acetone	1.832	43	93799	6.630	ppbv	98
16) 1,3-Butadiene	1.599	39	881	0.140	ppbv #	77
17) tert-Butyl alcohol	2.043	59	1301	0.070	ppbv #	34
19) Isopropyl Alcohol	1.884	45	10986	1.374	ppbv #	1
20) Methylene Chloride	2.059	84	3988	0.186	ppbv #	79
21) Allyl Chloride	2.046	41	455	0.048	ppbv #	73
23) Vinyl Acetate	2.470	43	8896	0.521	ppbv #	64
25) Ethyl Acetate	2.823	43	8074	0.265	ppbv #	78
26) Hexane	2.823	57	11251	0.841	ppbv #	41
27) Carbon Disulfide	2.149	76	1091	0.080	ppbv #	1
34) 2-Butanone	2.554	43	8284	0.429	ppbv	99
36) Benzene	3.651	78	2149	0.082	ppbv	94
39) 1,2-Dichloropropane	3.949	63	69184	7.209	ppbv #	25
51) 2-Hexanone	7.415	43	947	0.045	ppbv #	29
52) Tetrachloroethene	8.218	164	43592	4.469	ppbv	97
53) Toluene	6.917	91	3140	0.101	ppbv	94
61) Styrene	9.859	104	2665	0.186	ppbv #	88
74) 1,2,4-Trimethylbenzene	11.532	105	1254	0.034	ppbv #	60

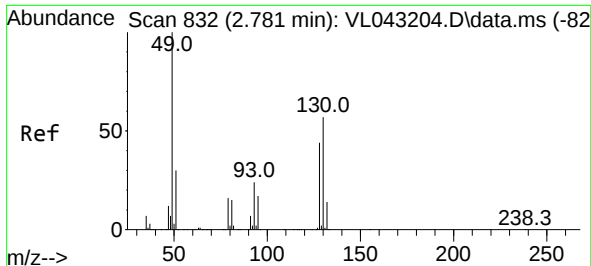
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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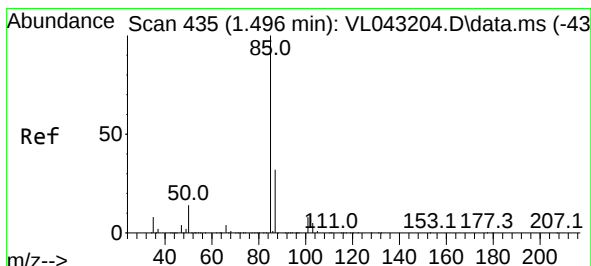
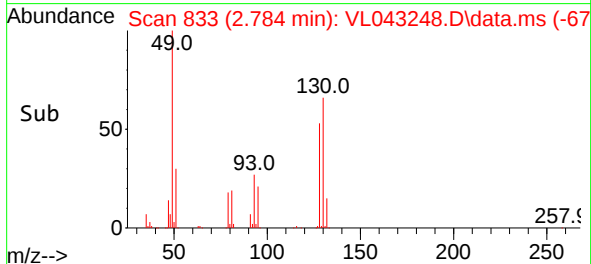
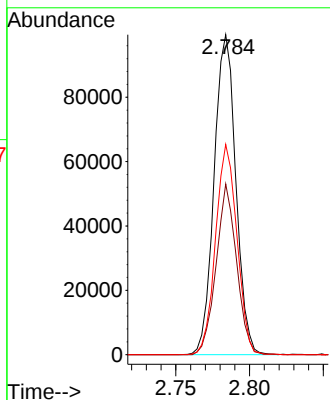
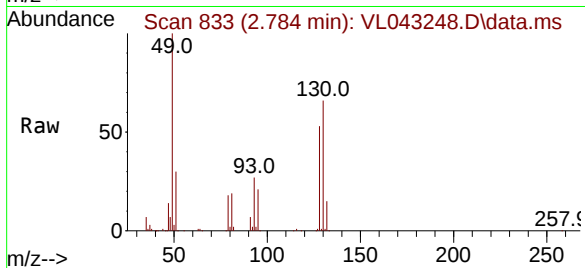




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 81
Delta R.T. 0.003 min
Lab File: VL043248.D
Acq: 19 Nov 2025 20:25

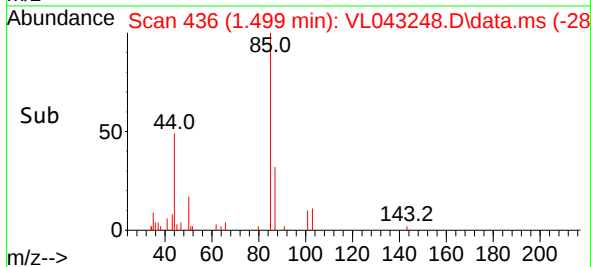
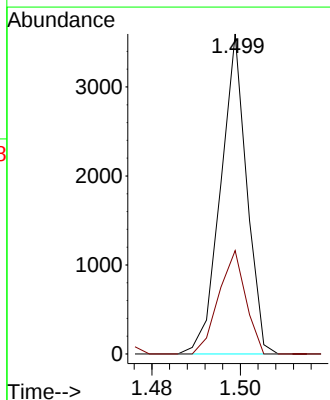
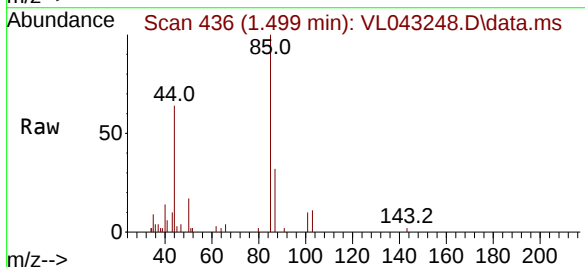
Instrument :
MSVOA_L
ClientSampleId :
9A-SG-1DL

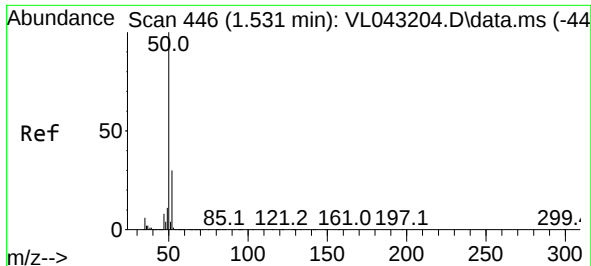
Tgt Ion: 49 Resp: 101838
Ion Ratio Lower Upper
49 100
128 50.2 23.0 69.0
130 64.6 29.9 89.7



#2
Dichlorodifluoromethane
Concen: 0.102 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.003 min
Lab File: VL043248.D
Acq: 19 Nov 2025 20:25

Tgt Ion: 85 Resp: 1470
Ion Ratio Lower Upper
85 100
87 32.3 25.4 38.2

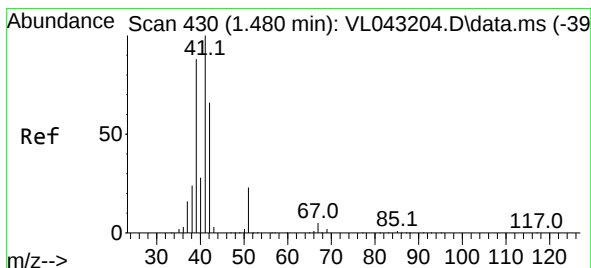
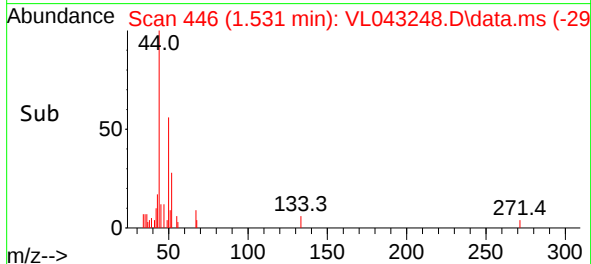
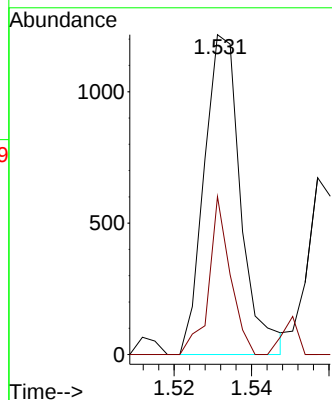
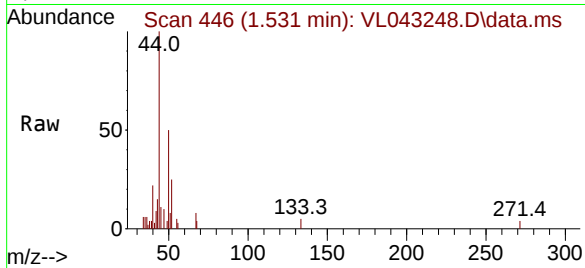




#4
Chloromethane
Concen: 0.149 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL043248.D
Acq: 19 Nov 2025 20:25

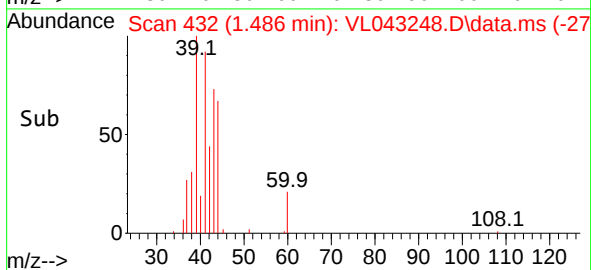
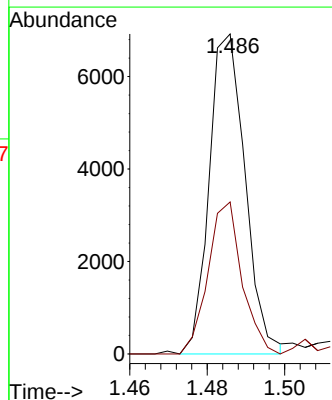
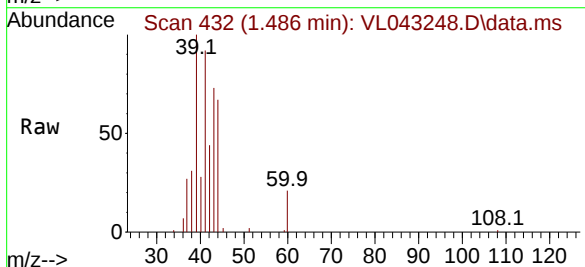
Instrument :
MSVOA_1
ClientSampleId :
9A-SG-1DL

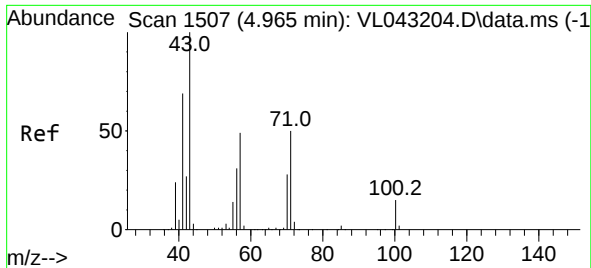
Tgt Ion: 50 Resp: 801
Ion Ratio Lower Upper
50 100
52 49.4 24.1 36.1#



#9
Propene
Concen: 0.742 ppbv
RT: 1.486 min Scan# 432
Delta R.T. 0.006 min
Lab File: VL043248.D
Acq: 19 Nov 2025 20:25

Tgt Ion: 41 Resp: 4449
Ion Ratio Lower Upper
41 100
42 48.2 3.7 5.5#

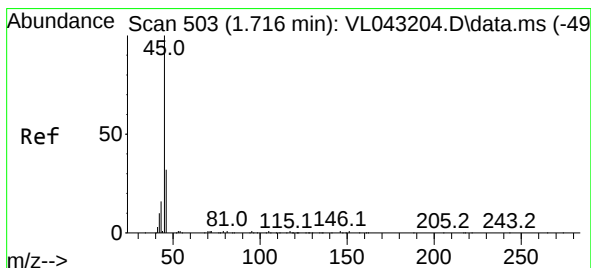
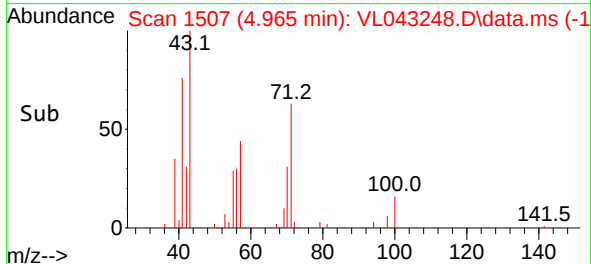
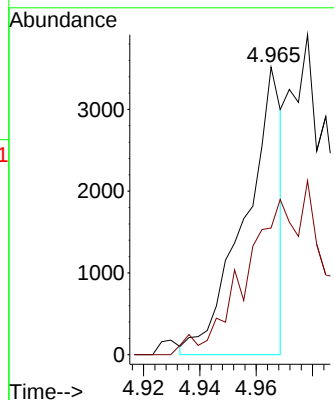
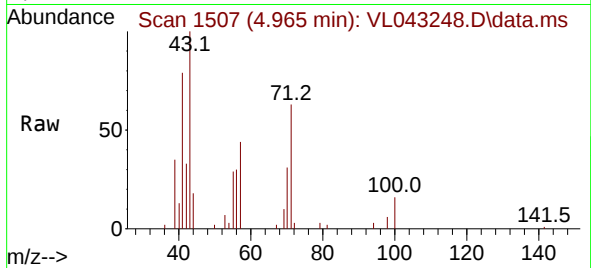




#10
Heptane
Concen: 0.178 ppbv
RT: 4.965 min Scan# 11
Delta R.T. -0.000 min
Lab File: VL043248.D
Acq: 19 Nov 2025 20:25

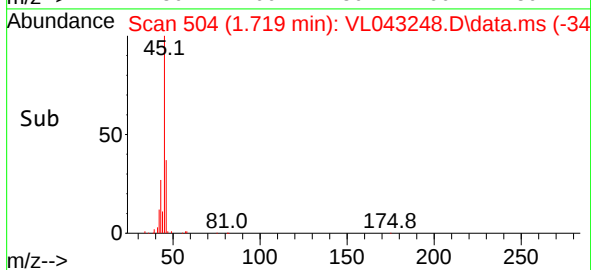
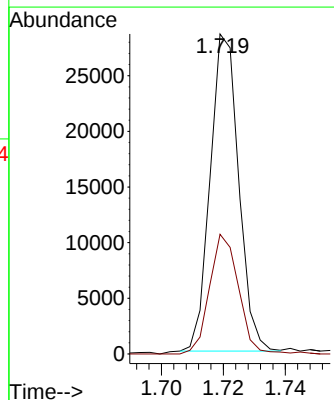
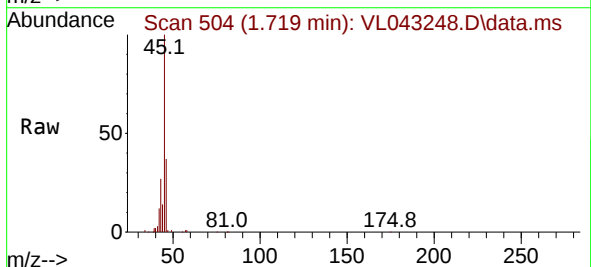
Instrument :
MSVOA_L
ClientSampleId :
9A-SG-1DL

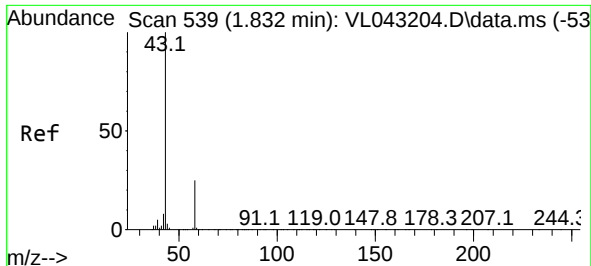
Tgt Ion: 43 Resp: 3183
Ion Ratio Lower Upper
43 100
57 0.0 39.7 59.5#



#13
Ethanol
Concen: 8.634 ppbv
RT: 1.719 min Scan# 504
Delta R.T. 0.003 min
Lab File: VL043248.D
Acq: 19 Nov 2025 20:25

Tgt Ion: 45 Resp: 18211
Ion Ratio Lower Upper
45 100
46 38.5 15.0 59.8

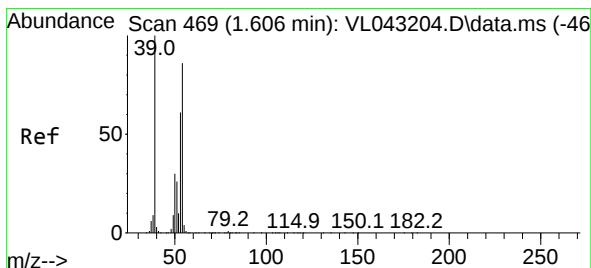
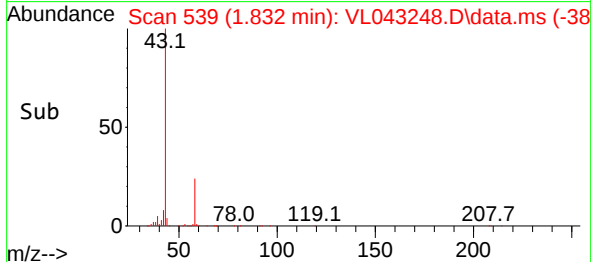
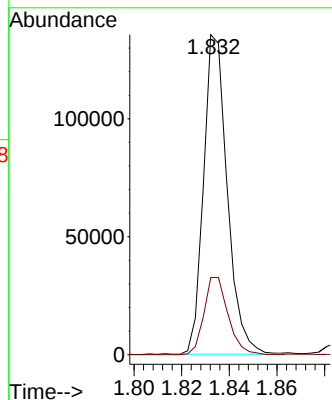
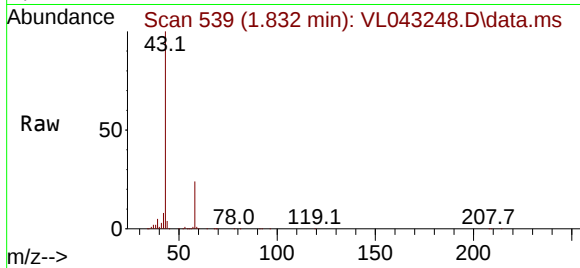




#15
Acetone
Concen: 6.630 ppbv
RT: 1.832 min Scan# 51
Delta R.T. -0.000 min
Lab File: VL043248.D
Acq: 19 Nov 2025 20:25

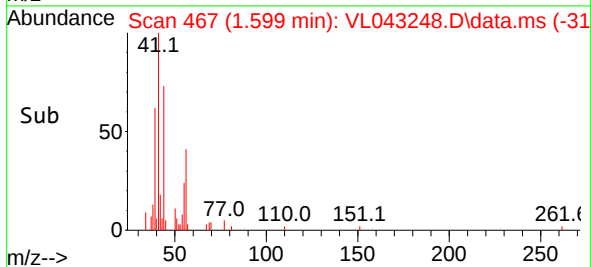
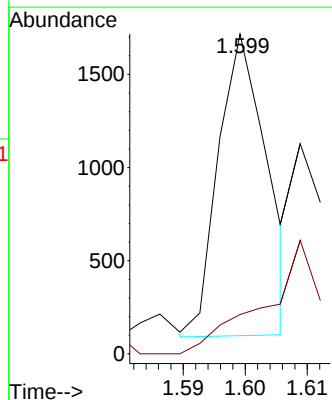
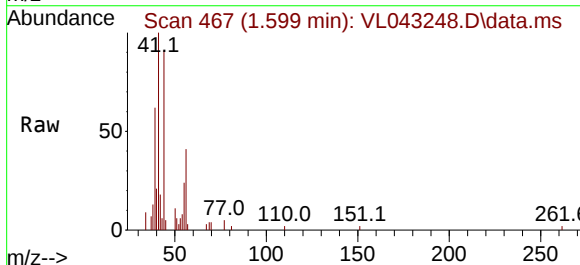
Instrument :
MSVOA_L
ClientSampleId :
9A-SG-1DL

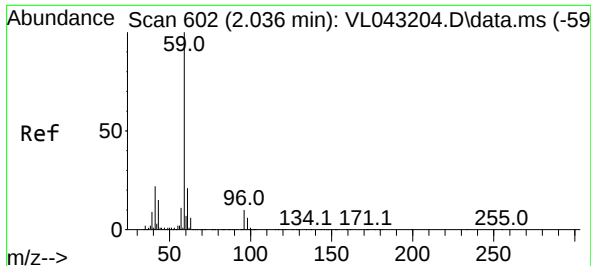
Tgt Ion: 43 Resp: 93799
Ion Ratio Lower Upper
43 100
58 25.0 20.7 31.1



#16
1,3-Butadiene
Concen: 0.140 ppbv
RT: 1.599 min Scan# 467
Delta R.T. -0.007 min
Lab File: VL043248.D
Acq: 19 Nov 2025 20:25

Tgt Ion: 39 Resp: 881
Ion Ratio Lower Upper
39 100
54 54.8 59.4 89.2#





#17

tert-Butyl alcohol

Concen: 0.070 ppbv

RT: 2.043 min Scan# 602

Delta R.T. 0.006 min

Lab File: VL043248.D

Acq: 19 Nov 2025 20:25

Instrument :

MSVOA_L

ClientSampleId :

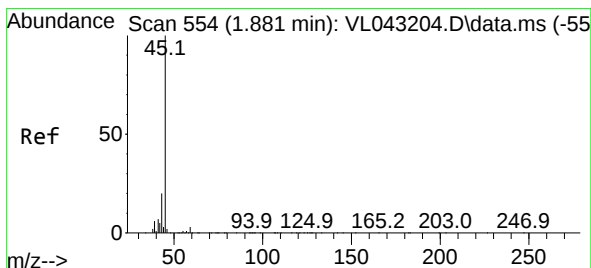
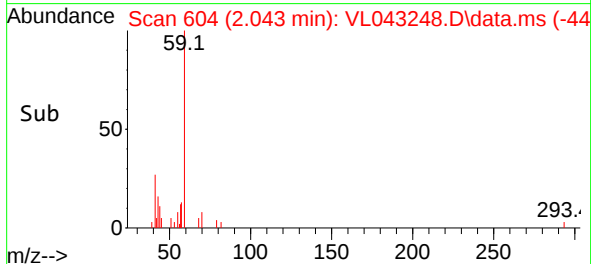
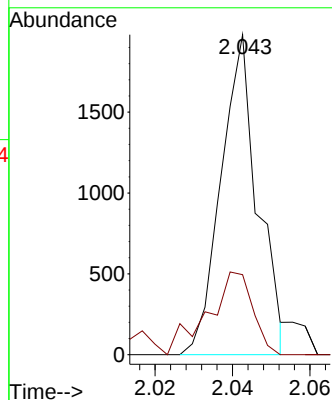
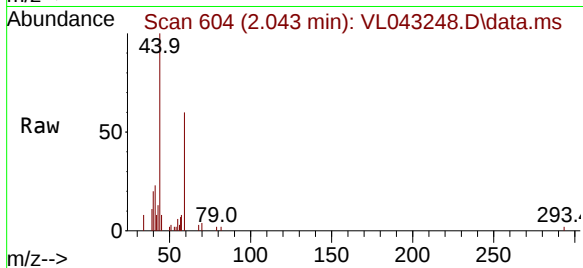
9A-SG-1DL

Tgt Ion: 59 Resp: 1301

Ion Ratio Lower Upper

59 100

57 36.3 9.0 13.4#



#19

Isopropyl Alcohol

Concen: 1.374 ppbv

RT: 1.884 min Scan# 555

Delta R.T. 0.003 min

Lab File: VL043248.D

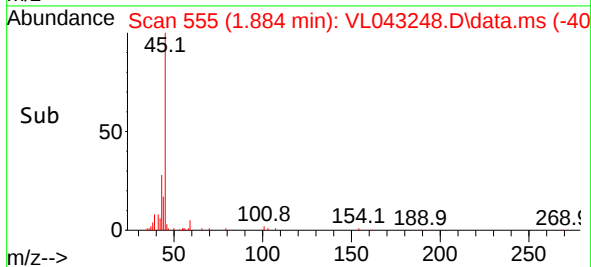
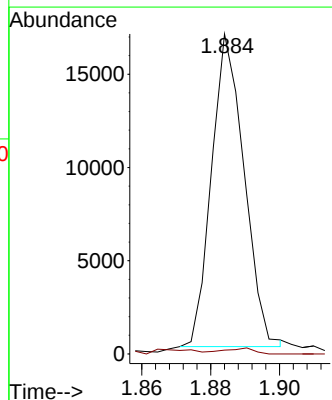
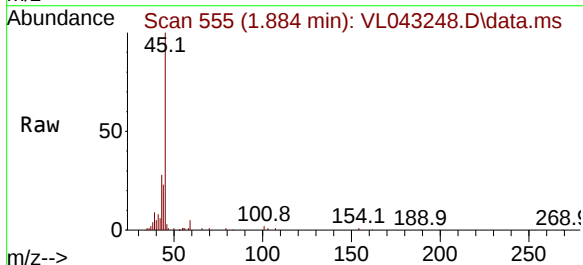
Acq: 19 Nov 2025 20:25

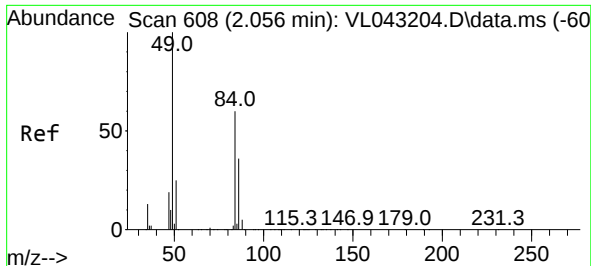
Tgt Ion: 45 Resp: 10986

Ion Ratio Lower Upper

45 100

58 213.6 31.3 46.9#





#20

Methylene Chloride

Concen: 0.186 ppbv

RT: 2.059 min Scan# 608

Delta R.T. 0.003 min

Lab File: VL043248.D

Acq: 19 Nov 2025 20:25

Instrument :

MSVOA_L

ClientSampleId :

9A-SG-1DL

Tgt Ion: 84 Resp: 3988

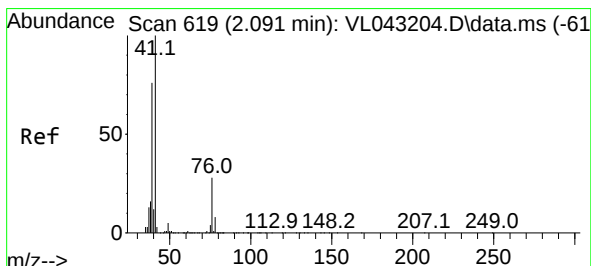
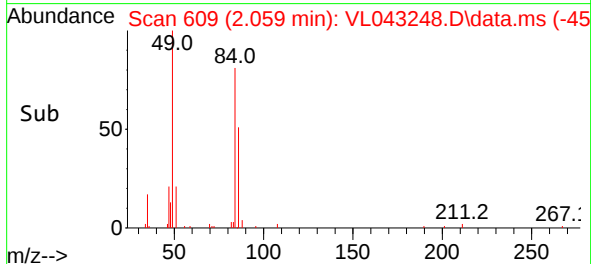
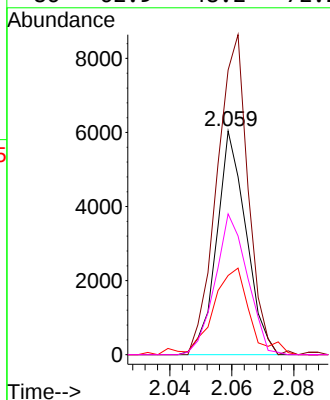
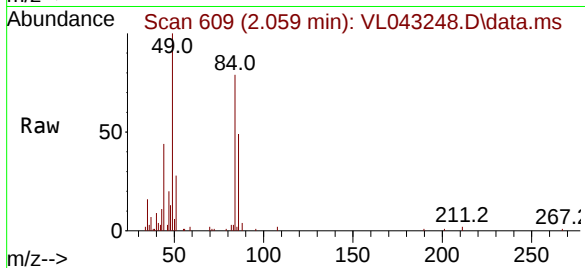
Ion Ratio Lower Upper

84 100

49 127.2 132.9 199.3#

51 33.9 34.8 52.2#

86 62.9 48.2 72.2



#21

Allyl Chloride

Concen: 0.048 ppbv

RT: 2.046 min Scan# 605

Delta R.T. -0.046 min

Lab File: VL043248.D

Acq: 19 Nov 2025 20:25

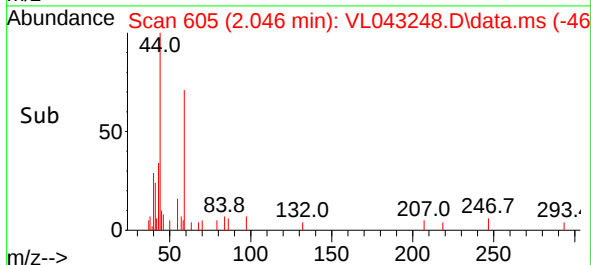
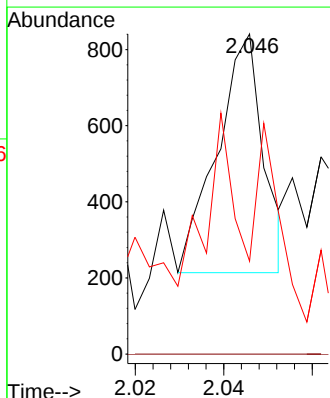
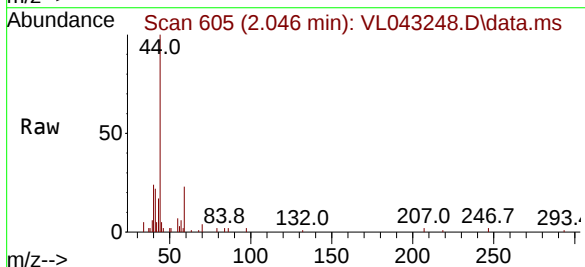
Tgt Ion: 41 Resp: 455

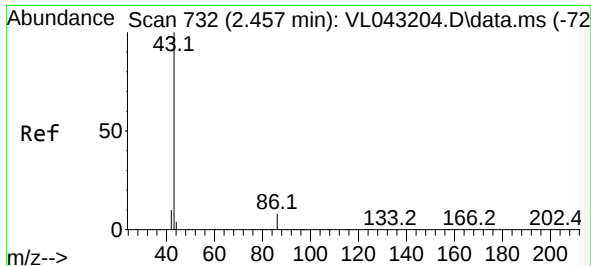
Ion Ratio Lower Upper

41 100

76 0.0 22.1 33.1#

39 91.4 61.0 91.4

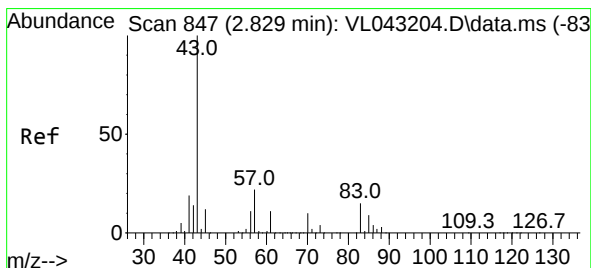
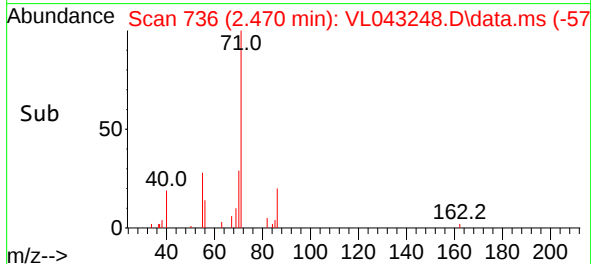
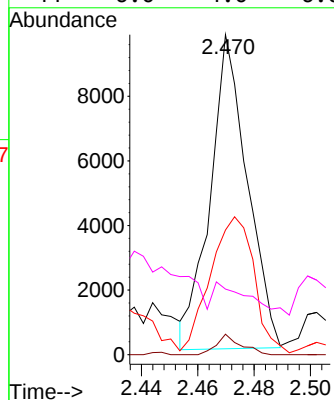
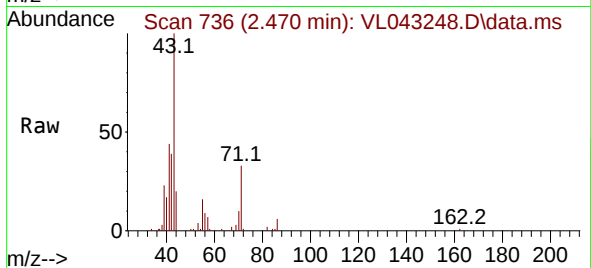




#23
 Vinyl Acetate
 Concen: 0.521 ppbv
 RT: 2.470 min Scan# 71
 Delta R.T. 0.013 min
 Lab File: VL043248.D
 Acq: 19 Nov 2025 20:25

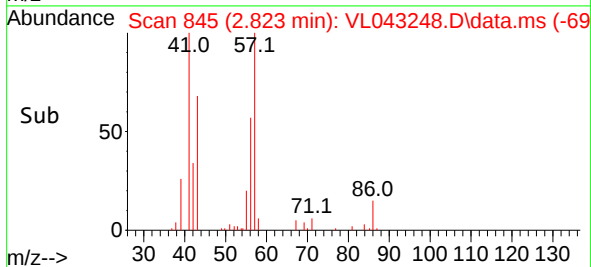
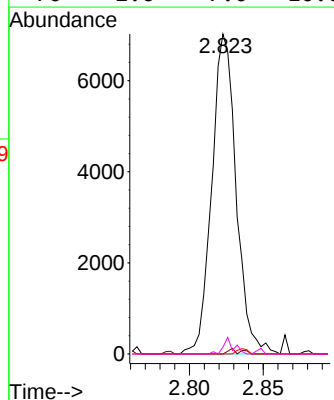
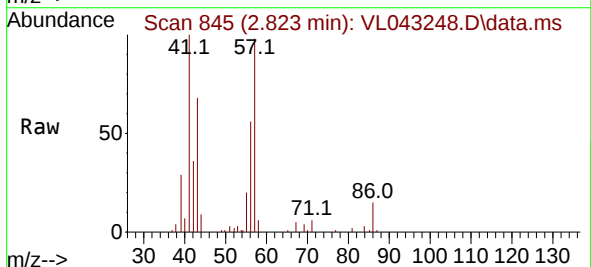
Instrument :
 MSVOA_1
 ClientSampleId :
 9A-SG-1DL

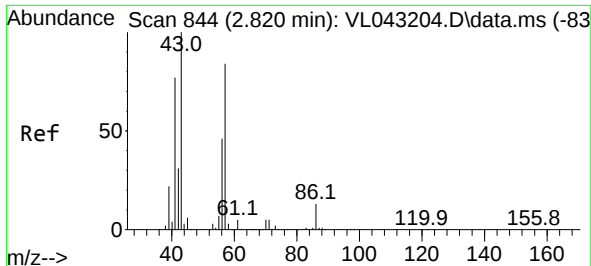
Tgt Ion:	43	Resp:	8896
Ion	Ratio	Lower	Upper
43	100		
86	6.6	6.2	9.2
42	38.9	8.0	12.0#
44	6.0	4.0	6.0#



#25
 Ethyl Acetate
 Concen: 0.265 ppbv
 RT: 2.823 min Scan# 845
 Delta R.T. -0.007 min
 Lab File: VL043248.D
 Acq: 19 Nov 2025 20:25

Tgt Ion:	43	Resp:	8074
Ion	Ratio	Lower	Upper
43	100		
45	0.8	8.1	12.1#
61	0.7	7.0	10.4#
70	2.6	7.0	10.6#

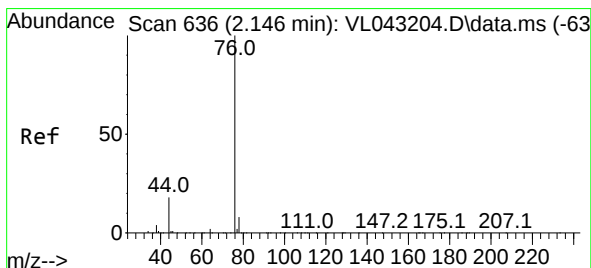
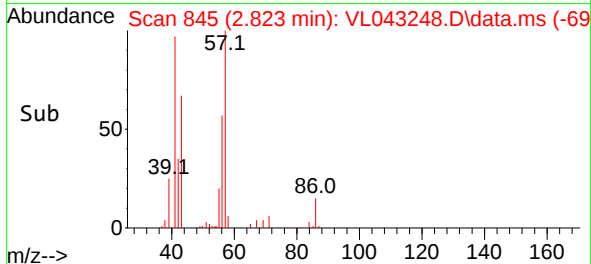
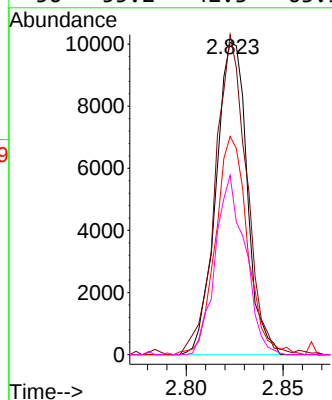
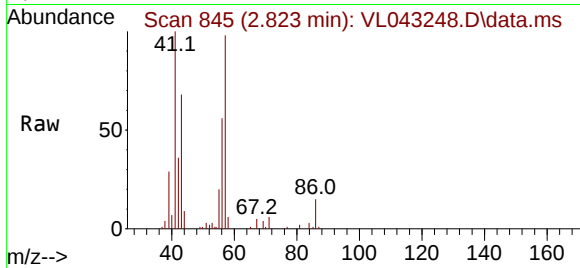




#26
Hexane
Concen: 0.841 ppbv
RT: 2.823 min Scan# 844
Delta R.T. 0.003 min
Lab File: VL043248.D
Acq: 19 Nov 2025 20:25

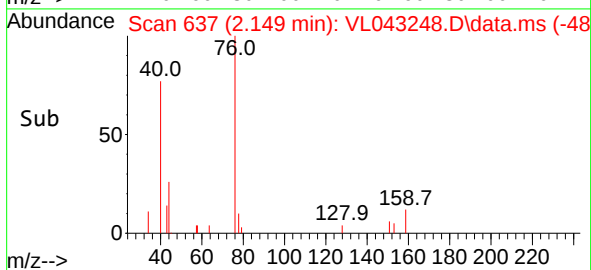
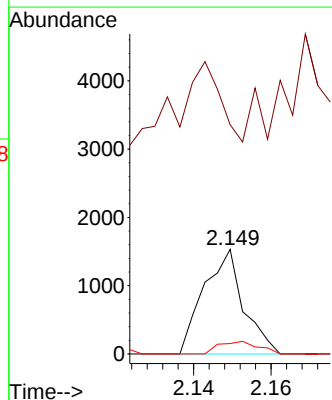
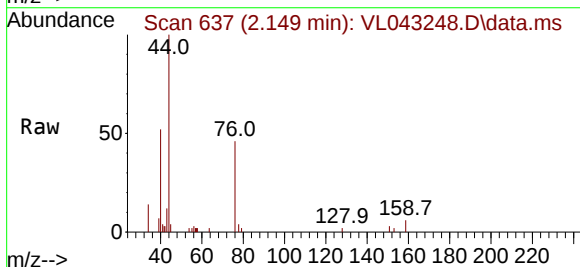
Instrument :
MSVOA_L
ClientSampleId :
9A-SG-1DL

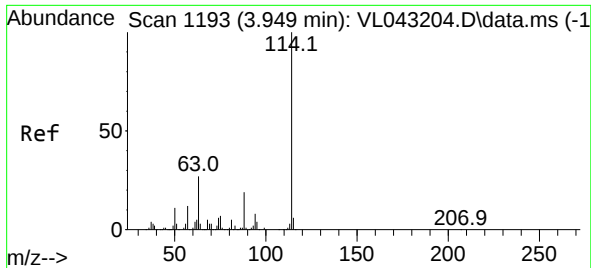
Tgt Ion: 57 Resp: 11251
Ion Ratio Lower Upper
57 100
41 103.8 74.6 111.8
43 72.7 179.0 268.4#
56 55.2 42.3 63.5



#27
Carbon Disulfide
Concen: 0.080 ppbv
RT: 2.149 min Scan# 637
Delta R.T. 0.003 min
Lab File: VL043248.D
Acq: 19 Nov 2025 20:25

Tgt Ion: 76 Resp: 1091
Ion Ratio Lower Upper
76 100
44 362.2 16.1 24.1#
78 11.9 9.6 14.4

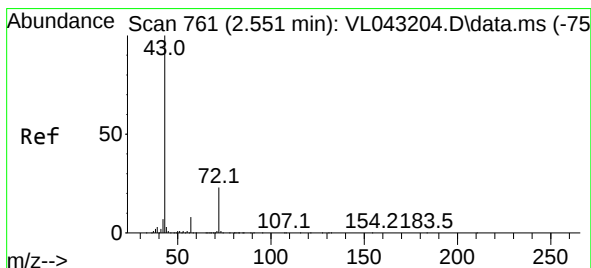
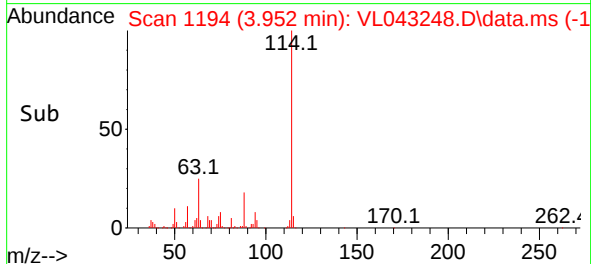
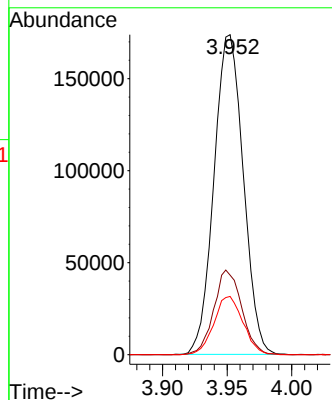
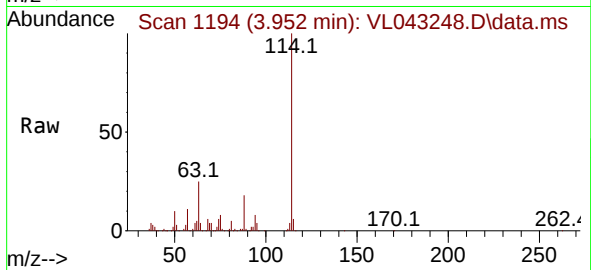




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.952 min Scan# 1194
Delta R.T. 0.003 min
Lab File: VL043248.D
Acq: 19 Nov 2025 20:25

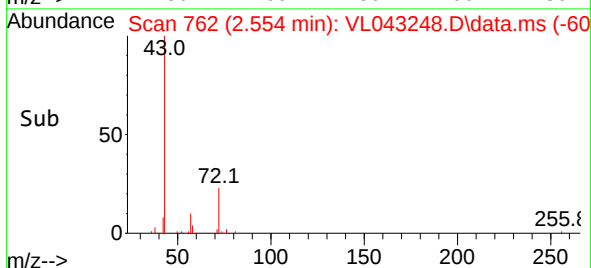
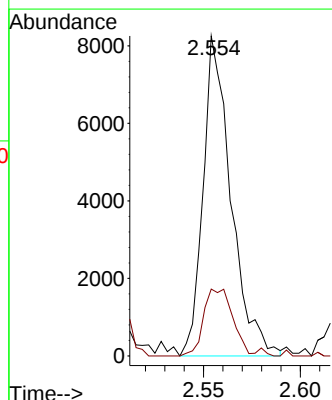
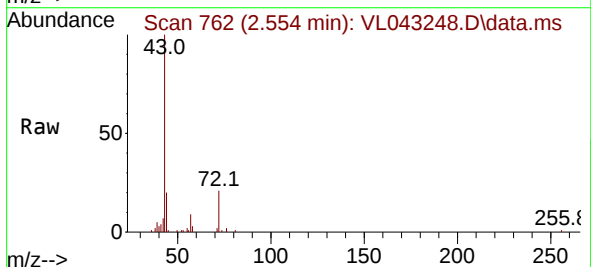
Instrument :
MSVOA_1
ClientSampleId :
9A-SG-1DL

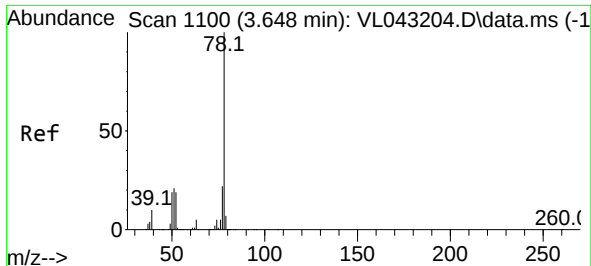
Tgt Ion:114 Resp: 273802
Ion Ratio Lower Upper
114 100
63 25.3 21.0 31.6
88 18.1 14.9 22.3



#34
2-Butanone
Concen: 0.429 ppbv
RT: 2.554 min Scan# 762
Delta R.T. 0.003 min
Lab File: VL043248.D
Acq: 19 Nov 2025 20:25

Tgt Ion: 43 Resp: 8284
Ion Ratio Lower Upper
43 100
72 22.9 18.1 27.1

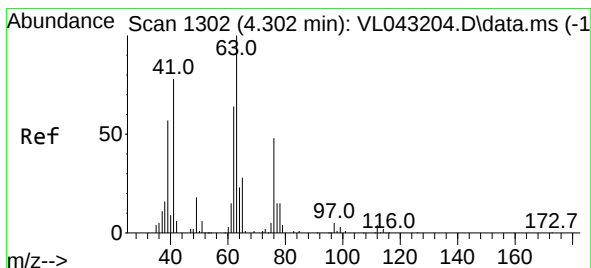
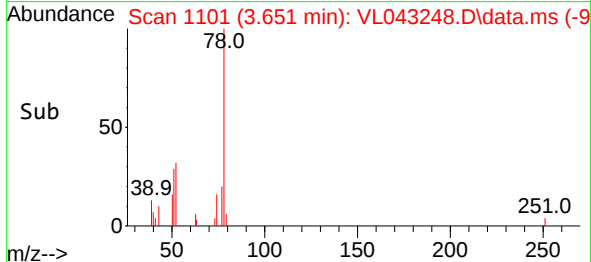
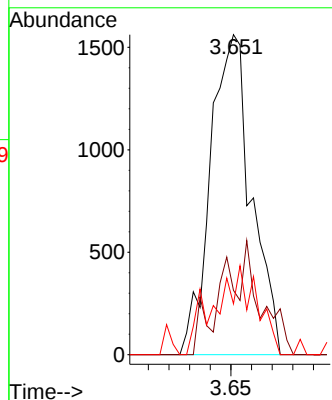
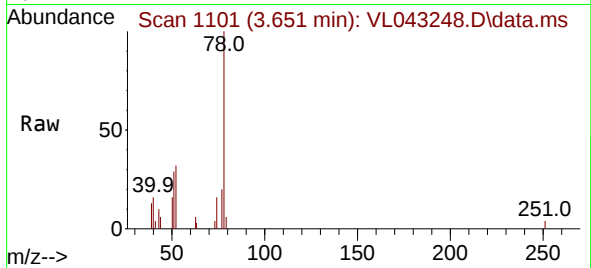




#36
Benzene
Concen: 0.082 ppbv
RT: 3.651 min Scan# 1100
Delta R.T. 0.003 min
Lab File: VL043248.D
Acq: 19 Nov 2025 20:25

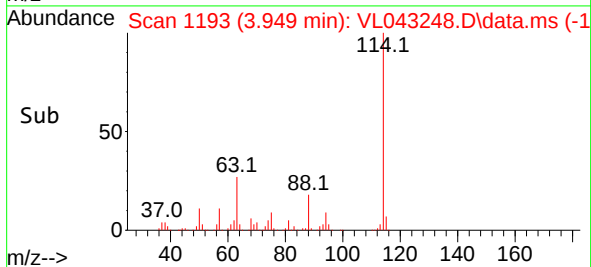
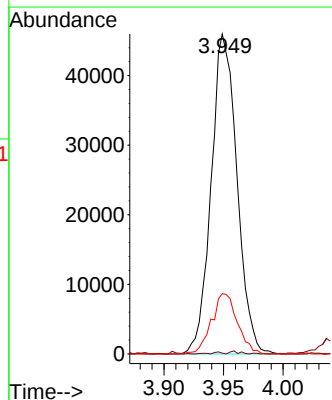
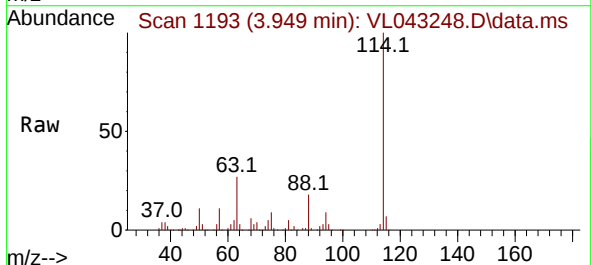
Instrument :
MSVOA_L
ClientSampleId :
9A-SG-1DL

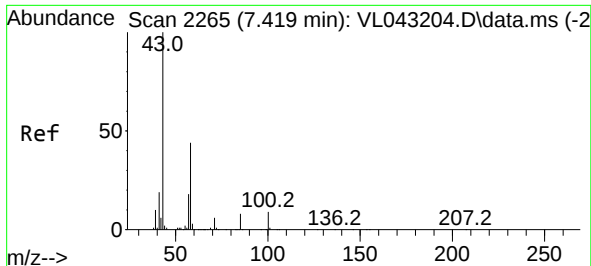
Tgt Ion: 78 Resp: 2149
Ion Ratio Lower Upper
78 100
77 20.1 17.5 26.3
50 15.9 15.5 23.3



#39
1,2-Dichloropropane
Concen: 7.209 ppbv
RT: 3.949 min Scan# 1193
Delta R.T. -0.353 min
Lab File: VL043248.D
Acq: 19 Nov 2025 20:25

Tgt Ion: 63 Resp: 69184
Ion Ratio Lower Upper
63 100
41 0.1 62.6 93.8#
62 18.8 51.0 76.6#

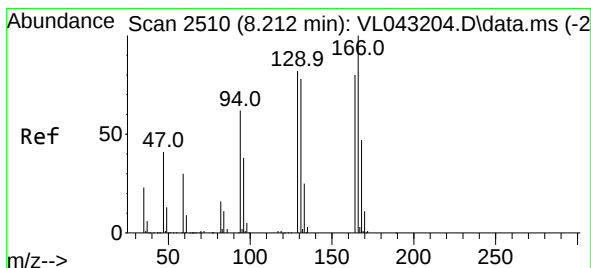
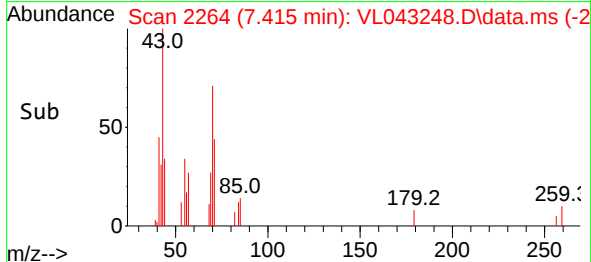
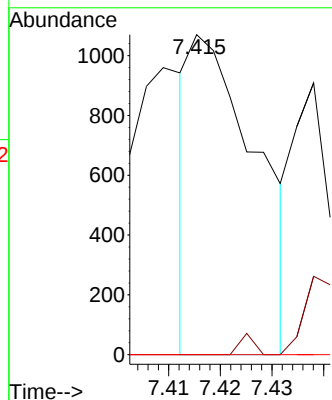
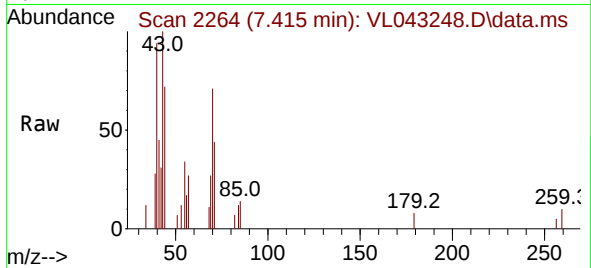




#51
2-Hexanone
Concen: 0.045 ppbv
RT: 7.415 min Scan# 21
Delta R.T. -0.003 min
Lab File: VL043248.D
Acq: 19 Nov 2025 20:25

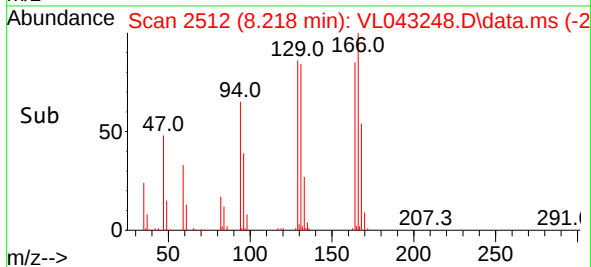
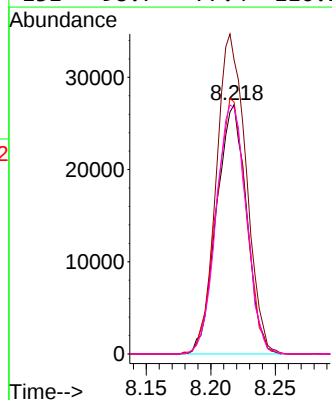
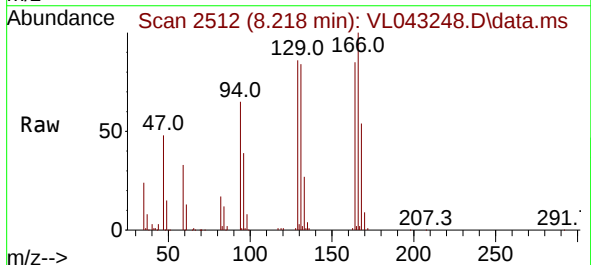
Instrument :
MSVOA_L
ClientSampleId :
9A-SG-1DL

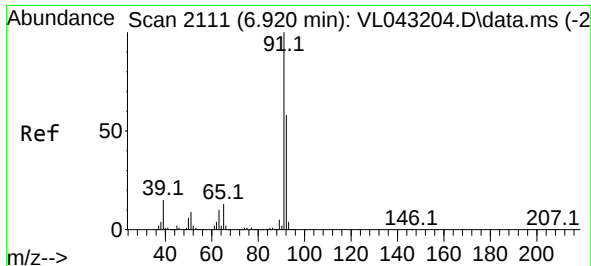
Tgt Ion: 43 Resp: 947
Ion Ratio Lower Upper
43 100
58 0.0 38.4 57.6#
98 0.0 0.0 0.0



#52
Tetrachloroethene
Concen: 4.469 ppbv
RT: 8.218 min Scan# 2512
Delta R.T. 0.006 min
Lab File: VL043248.D
Acq: 19 Nov 2025 20:25

Tgt Ion:164 Resp: 43592
Ion Ratio Lower Upper
164 100
166 117.9 99.4 149.2
129 101.1 81.8 122.8
131 98.7 77.4 116.2

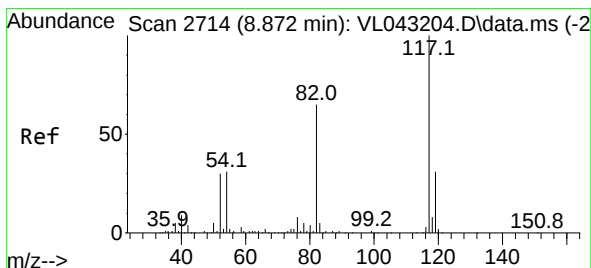
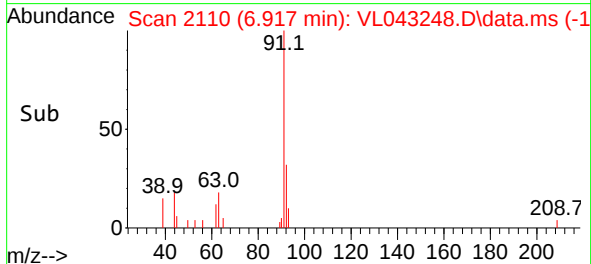
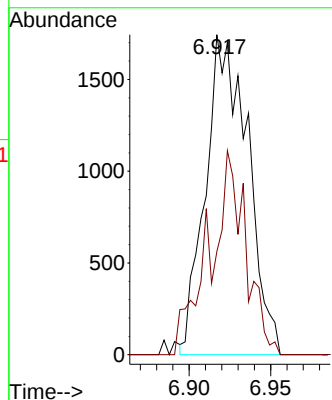
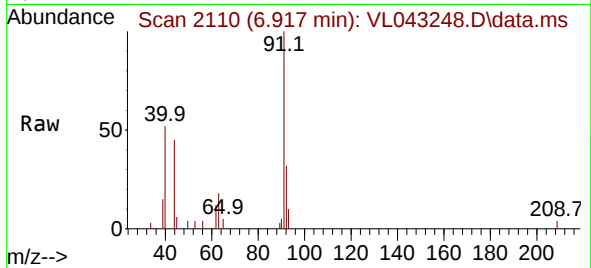




#53
Toluene
Concen: 0.101 ppbv
RT: 6.917 min Scan# 2111
Delta R.T. -0.003 min
Lab File: VL043248.D
Acq: 19 Nov 2025 20:25

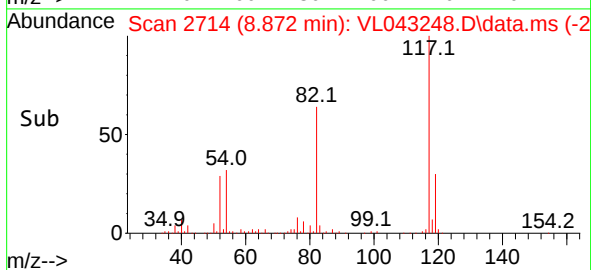
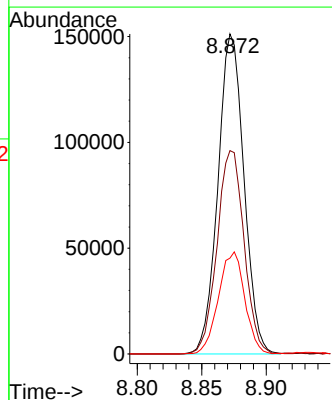
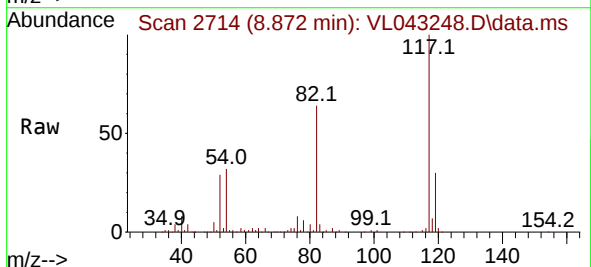
Instrument :
MSVOA_L
ClientSampleId :
9A-SG-1DL

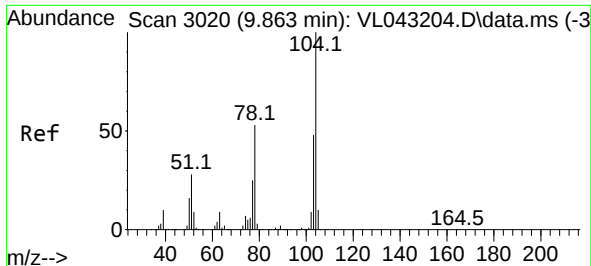
Tgt Ion: 91 Resp: 3140
Ion Ratio Lower Upper
91 100
92 54.8 47.4 71.0



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.872 min Scan# 2714
Delta R.T. -0.000 min
Lab File: VL043248.D
Acq: 19 Nov 2025 20:25

Tgt Ion: 117 Resp: 211877
Ion Ratio Lower Upper
117 100
82 66.1 56.1 84.1
119 32.3 25.0 37.6

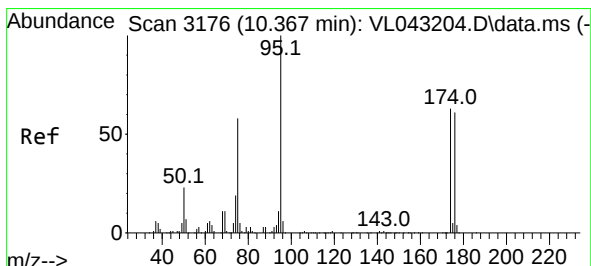
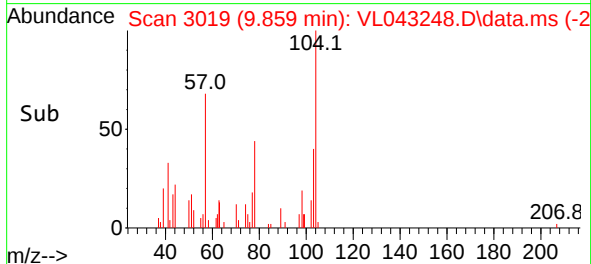
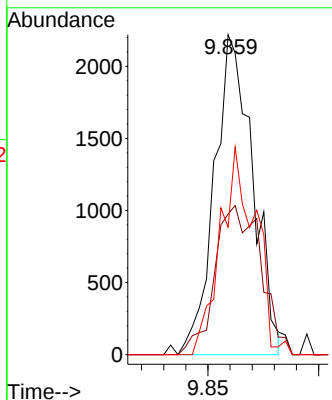
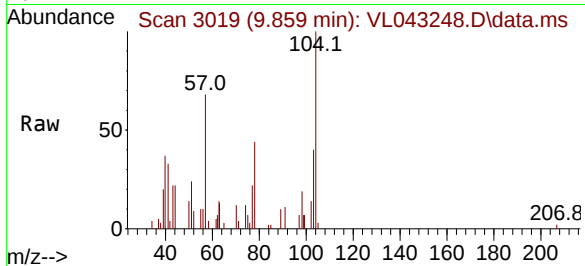




#61
Styrene
Concen: 0.186 ppbv
RT: 9.859 min Scan# 3020
Delta R.T. -0.003 min
Lab File: VL043248.D
Acq: 19 Nov 2025 20:25

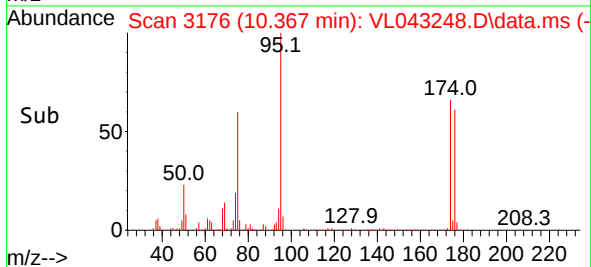
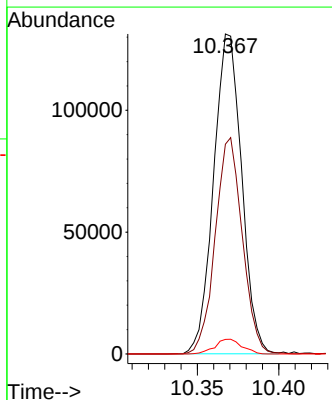
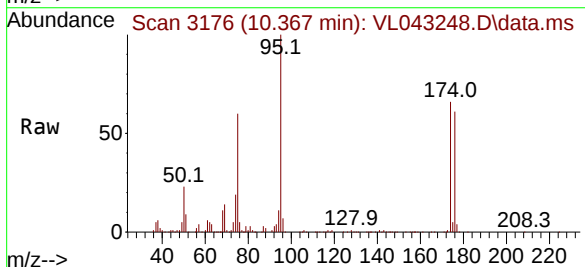
Instrument :
MSVOA_L
ClientSampleId :
9A-SG-1DL

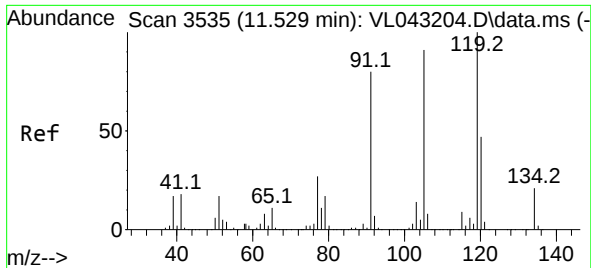
Tgt Ion:104 Resp: 2665
Ion Ratio Lower Upper
104 100
78 56.2 42.1 63.1
103 59.7 37.2 55.8#



#68
1-Bromo-4-Fluorobenzene
Concen: 10.097 ppbv
RT: 10.367 min Scan# 3176
Delta R.T. -0.000 min
Lab File: VL043248.D
Acq: 19 Nov 2025 20:25

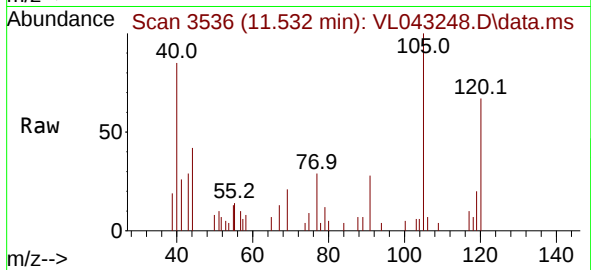
Tgt Ion: 95 Resp: 156816
Ion Ratio Lower Upper
95 100
174 65.4 50.2 75.2
175 4.4 4.1 6.1





#74
 1,2,4-Trimethylbenzene
 Concen: 0.034 ppbv
 RT: 11.532 min Scan# 31
 Delta R.T. 0.003 min
 Lab File: VL043248.D
 Acq: 19 Nov 2025 20:25

Instrument :
 MSVOA_L
 ClientSampleId :
 9A-SG-1DL



Tgt Ion:	105	Resp:	1254
Ion	Ratio	Lower	Upper
105	100		
120	67.1	41.7	62.5#
91	28.2	70.0	105.0#
77	28.6	23.8	35.8

