

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111925\
 Data File : VL043250.D
 Acq On : 19 Nov 2025 21:33
 Operator : SY/MD
 Sample : Q3626-04DL 5X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 9B-SG-2DL

Quant Time: Nov 20 00:11:45 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)

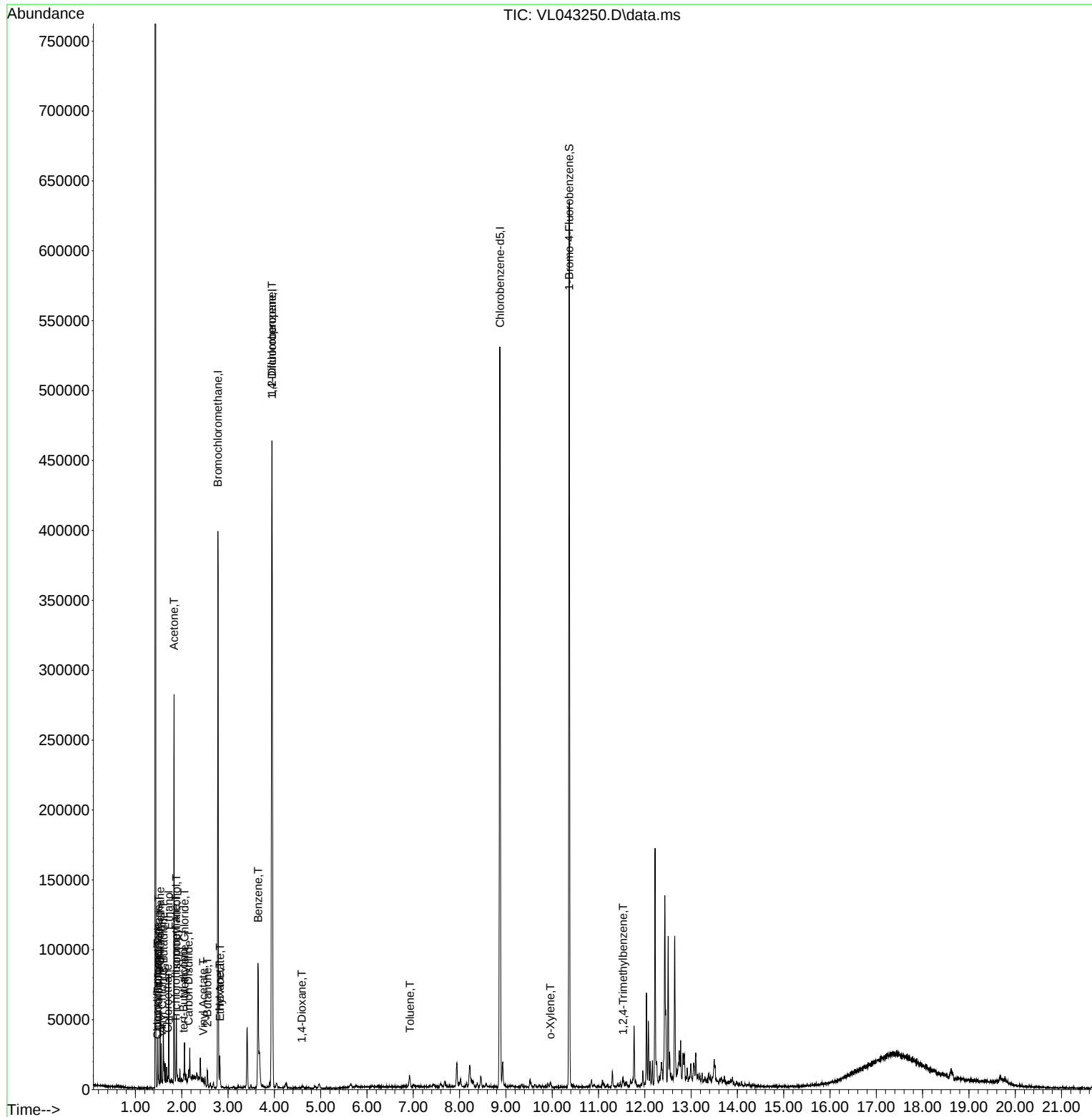
Internal Standards						
1) Bromochloromethane	2.781	49	98441	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.949	114	273742	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.872	117	208879	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.368	95	151610	9.902	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.000%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.496	85	1486	0.107	ppbv	94
3) Chlorodifluoromethane	1.473	51	1320	0.097	ppbv	97
4) Chloromethane	1.532	50	14812	2.853	ppbv	90
5) Vinyl Chloride	1.577	62	716	0.126	ppbv	91
7) Chloroethane	1.700	64	1033	0.467	ppbv	89
9) Propene	1.483	41	4846	0.836	ppbv #	1
11) Trichlorofluoromethane	1.875	101	937	0.070	ppbv	99
13) Ethanol	1.719	45	27356	13.417	ppbv	100
15) Acetone	1.833	43	118326	8.652	ppbv	100
16) 1,3-Butadiene	1.603	39	6947	1.139	ppbv #	53
17) tert-Butyl alcohol	2.040	59	1346	0.075	ppbv #	33
19) Isopropyl Alcohol	1.884	45	19406	2.511	ppbv #	1
20) Methylene Chloride	2.059	84	4144	0.264	ppbv #	86
23) Vinyl Acetate	2.464	43	560	0.034	ppbv #	69
25) Ethyl Acetate	2.826	43	3607	0.122	ppbv #	83
26) Hexane	2.820	57	4464	0.345	ppbv #	39
27) Carbon Disulfide	2.147	76	3921	0.297	ppbv #	1
34) 2-Butanone	2.554	43	7858	0.407	ppbv	98
36) Benzene	3.648	78	53179	2.029	ppbv	98
39) 1,2-Dichloropropane	3.946	63	69463	7.240	ppbv #	24
40) 1,4-Dioxane	4.593	88	280	0.065	ppbv #	57
53) Toluene	6.927	91	3064	0.099	ppbv #	15
60) o-Xylene	9.960	91	1226	0.038	ppbv	95
74) 1,2,4-Trimethylbenzene	11.530	105	1433	0.040	ppbv #	56

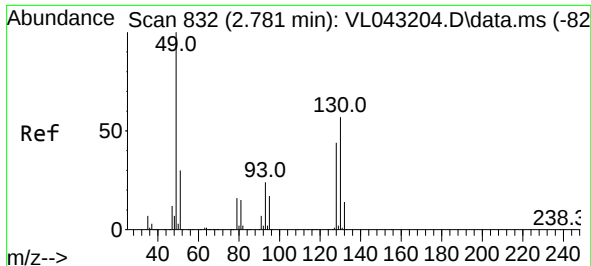
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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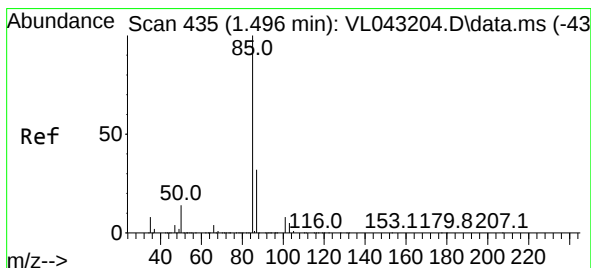
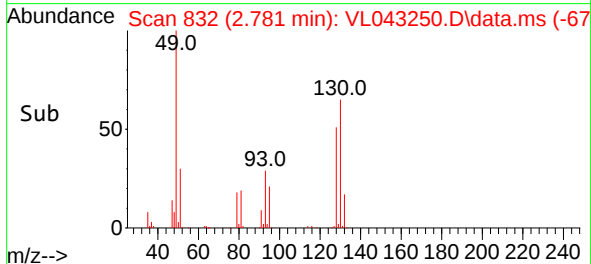
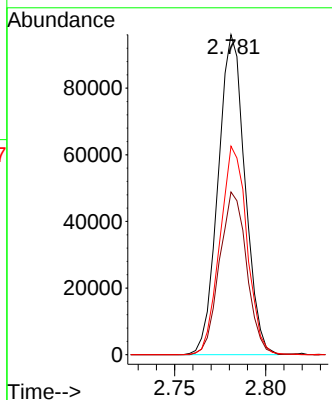
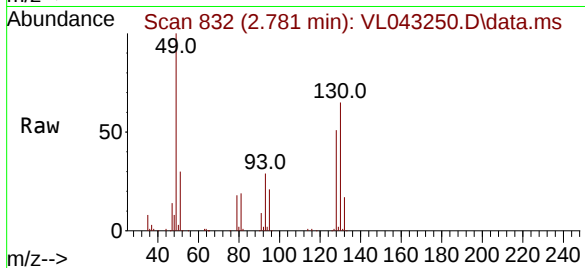




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.781 min Scan# 81
Delta R.T. -0.000 min
Lab File: VL043250.D
Acq: 19 Nov 2025 21:33

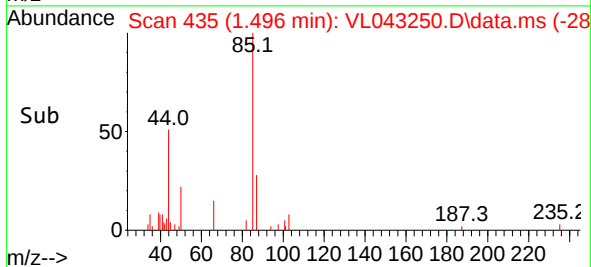
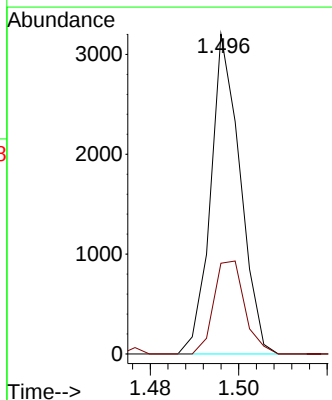
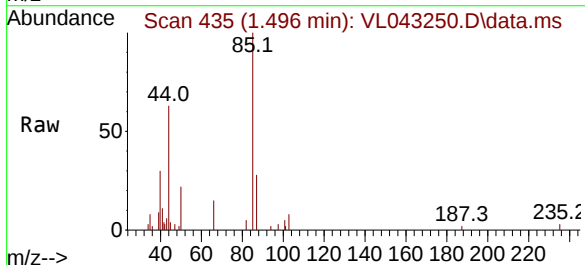
Instrument :
MSVOA_L
ClientSampleId :
9B-SG-2DL

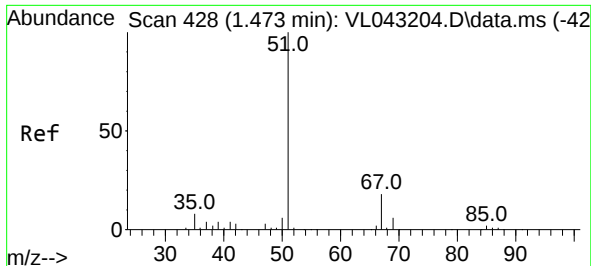
Tgt Ion: 49 Resp: 98441
Ion Ratio Lower Upper
49 100
128 51.5 23.0 69.0
130 65.5 29.9 89.7



#2
Dichlorodifluoromethane
Concen: 0.107 ppbv
RT: 1.496 min Scan# 435
Delta R.T. 0.000 min
Lab File: VL043250.D
Acq: 19 Nov 2025 21:33

Tgt Ion: 85 Resp: 1486
Ion Ratio Lower Upper
85 100
87 28.3 25.4 38.2

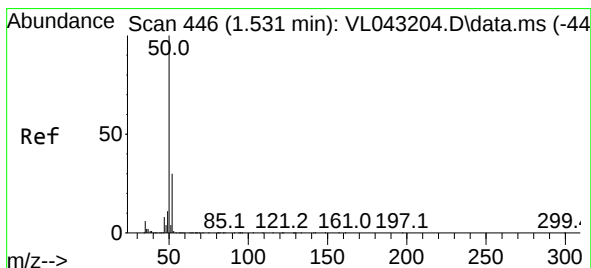
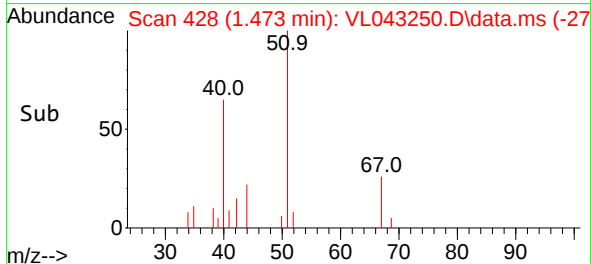
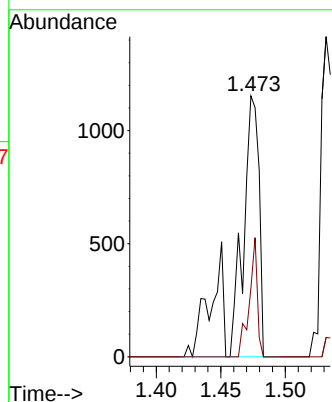
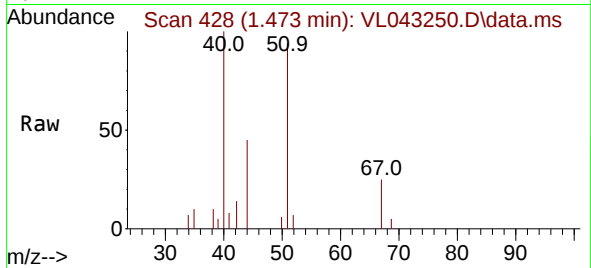




#3
Chlorodifluoromethane
Concen: 0.097 ppbv
RT: 1.473 min Scan# 428
Delta R.T. 0.000 min
Lab File: VL043250.D
Acq: 19 Nov 2025 21:33

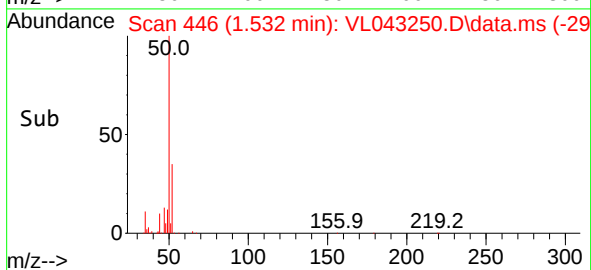
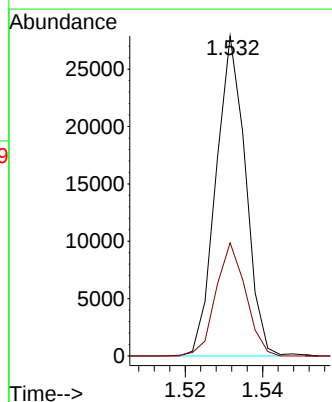
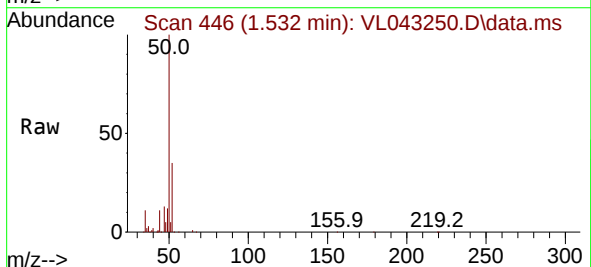
Instrument :
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ClientSampleId :
9B-SG-2DL

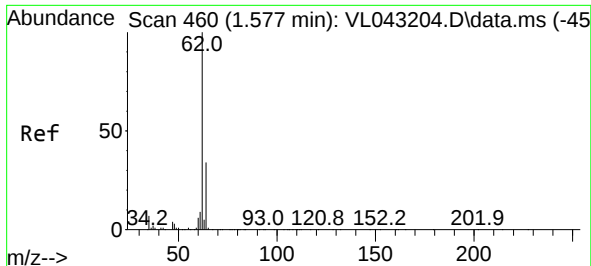
Tgt Ion: 51 Resp: 1320
Ion Ratio Lower Upper
51 100
67 17.4 14.9 22.3



#4
Chloromethane
Concen: 2.853 ppbv
RT: 1.532 min Scan# 446
Delta R.T. 0.000 min
Lab File: VL043250.D
Acq: 19 Nov 2025 21:33

Tgt Ion: 50 Resp: 14812
Ion Ratio Lower Upper
50 100
52 35.3 24.1 36.1

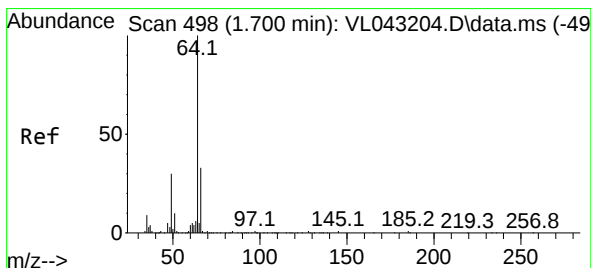
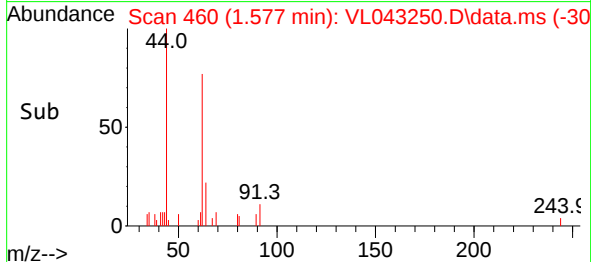
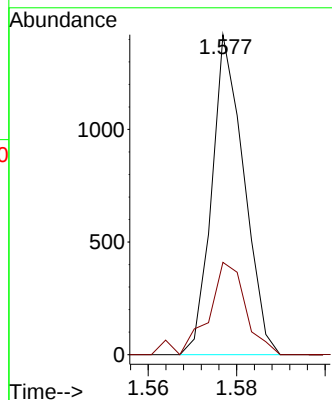
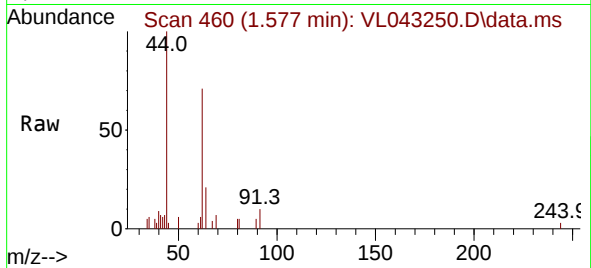




#5
 Vinyl Chloride
 Concen: 0.126 ppbv
 RT: 1.577 min Scan# 460
 Delta R.T. 0.000 min
 Lab File: VL043250.D
 Acq: 19 Nov 2025 21:33

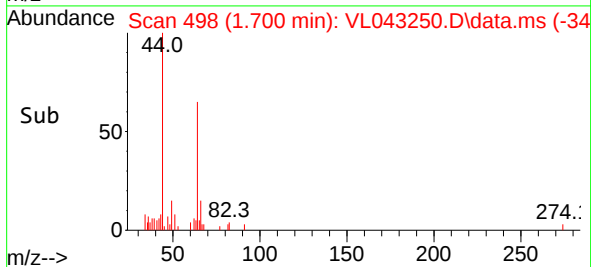
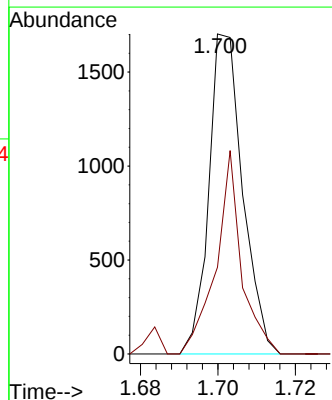
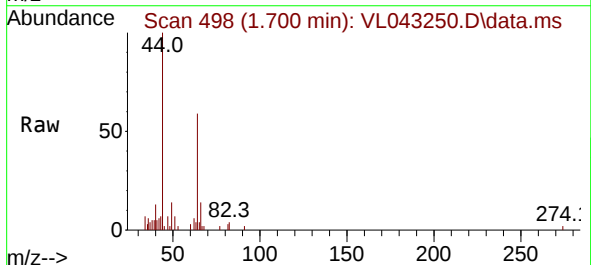
Instrument :
 MSVOA_1
 ClientSampleId :
 9B-SG-2DL

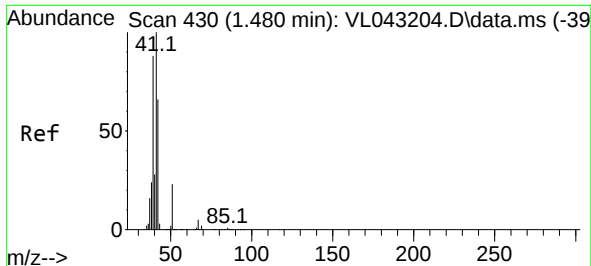
Tgt Ion: 62 Resp: 716
 Ion Ratio Lower Upper
 62 100
 64 28.9 27.3 40.9



#7
 Chloroethane
 Concen: 0.467 ppbv
 RT: 1.700 min Scan# 498
 Delta R.T. 0.000 min
 Lab File: VL043250.D
 Acq: 19 Nov 2025 21:33

Tgt Ion: 64 Resp: 1033
 Ion Ratio Lower Upper
 64 100
 66 27.1 26.8 40.2





#9

Propene

Concen: 0.836 ppbv

RT: 1.483 min Scan# 41

Delta R.T. 0.003 min

Lab File: VL043250.D

Acq: 19 Nov 2025 21:33

Instrument :

MSVOA_L

ClientSampleId :

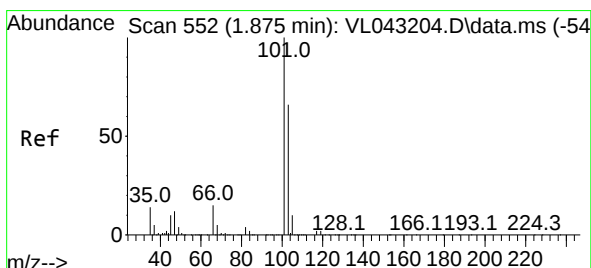
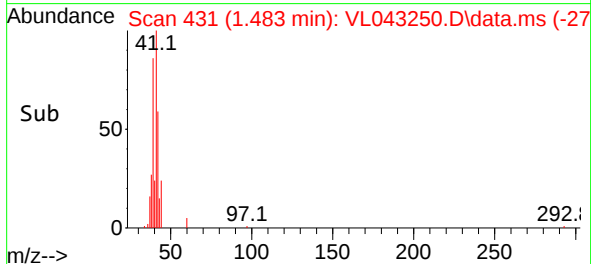
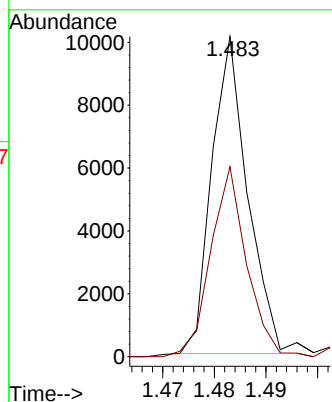
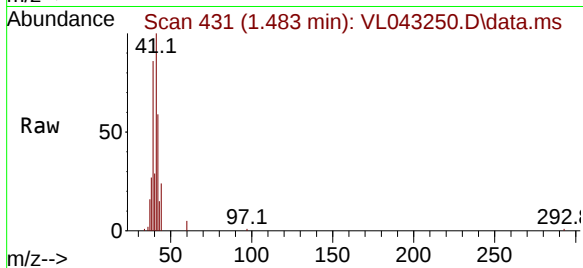
9B-SG-2DL

Tgt Ion: 41 Resp: 4846

Ion Ratio Lower Upper

41 100

42 63.9 3.7 5.5#



#11

Trichlorofluoromethane

Concen: 0.070 ppbv

RT: 1.875 min Scan# 552

Delta R.T. 0.000 min

Lab File: VL043250.D

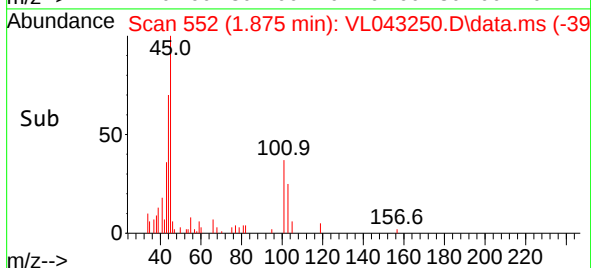
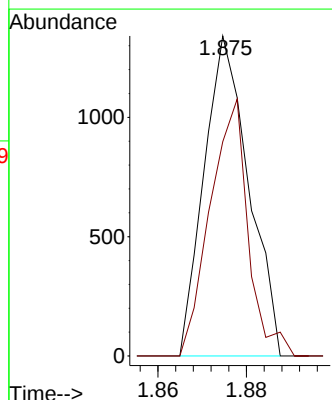
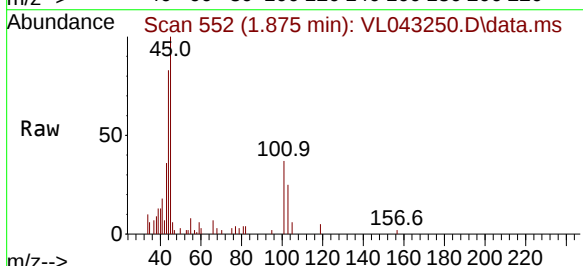
Acq: 19 Nov 2025 21:33

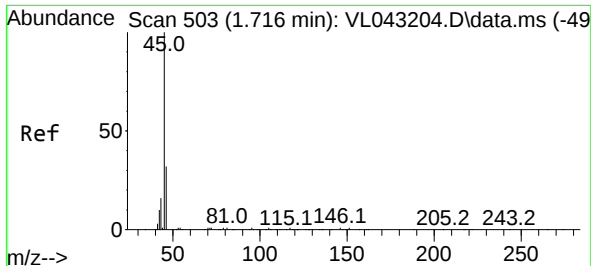
Tgt Ion:101 Resp: 937

Ion Ratio Lower Upper

101 100

103 67.0 52.6 79.0

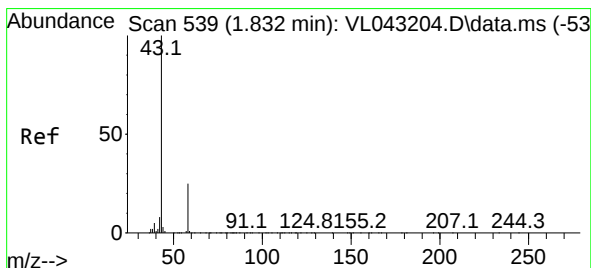
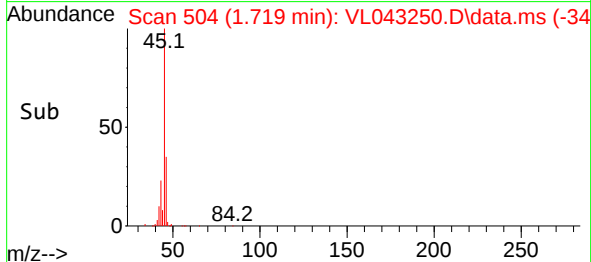
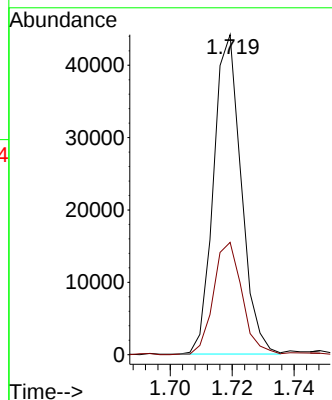
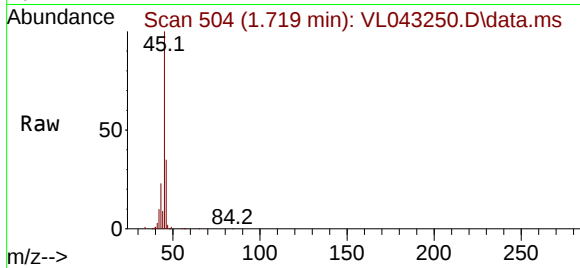




#13
Ethanol
Concen: 13.417 ppbv
RT: 1.719 min Scan# 503
Delta R.T. 0.003 min
Lab File: VL043250.D
Acq: 19 Nov 2025 21:33

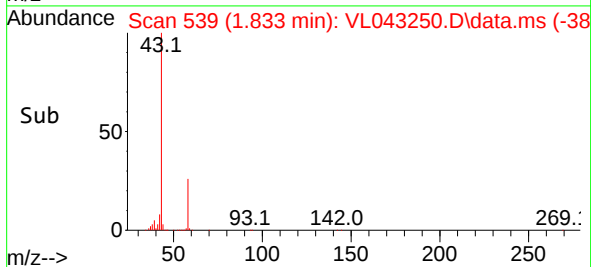
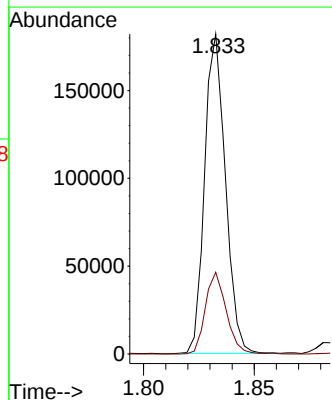
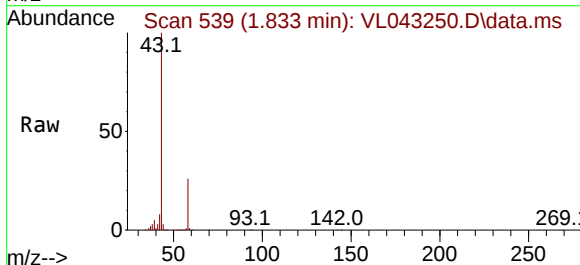
Instrument :
MSVOA_L
ClientSampleId :
9B-SG-2DL

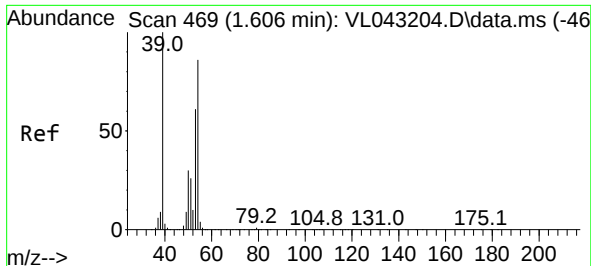
Tgt Ion: 45 Resp: 27356
Ion Ratio Lower Upper
45 100
46 37.6 15.0 59.8



#15
Acetone
Concen: 8.652 ppbv
RT: 1.833 min Scan# 539
Delta R.T. 0.000 min
Lab File: VL043250.D
Acq: 19 Nov 2025 21:33

Tgt Ion: 43 Resp: 118326
Ion Ratio Lower Upper
43 100
58 25.8 20.7 31.1





#16

1,3-Butadiene

Concen: 1.139 ppbv

RT: 1.603 min Scan# 4

Delta R.T. -0.003 min

Lab File: VL043250.D

Acq: 19 Nov 2025 21:33

Instrument :

MSVOA_L

ClientSampleId :

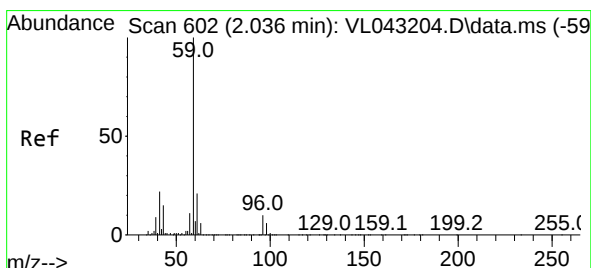
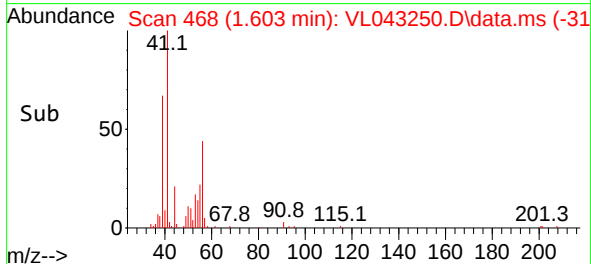
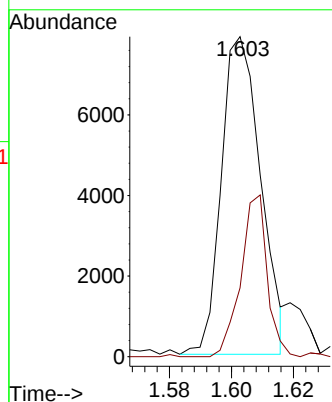
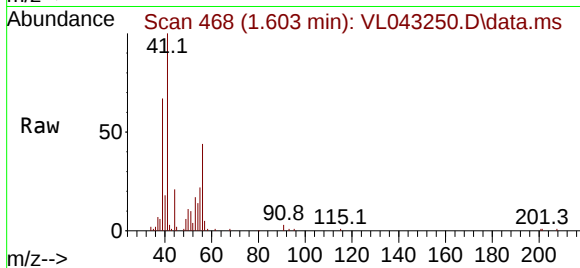
9B-SG-2DL

Tgt Ion: 39 Resp: 6947

Ion Ratio Lower Upper

39 100

54 34.8 59.4 89.2#



#17

tert-Butyl alcohol

Concen: 0.075 ppbv

RT: 2.040 min Scan# 603

Delta R.T. 0.003 min

Lab File: VL043250.D

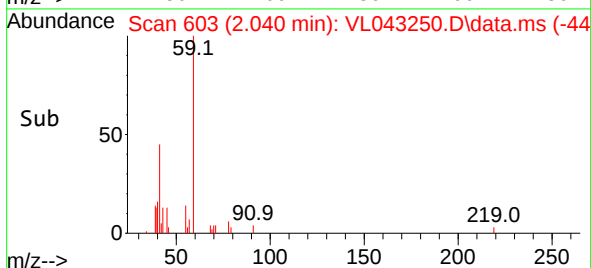
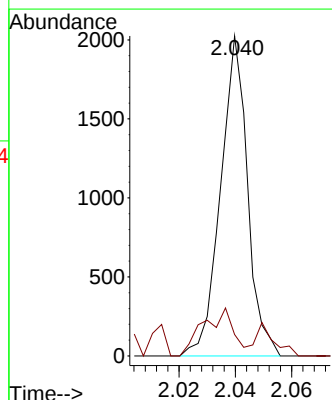
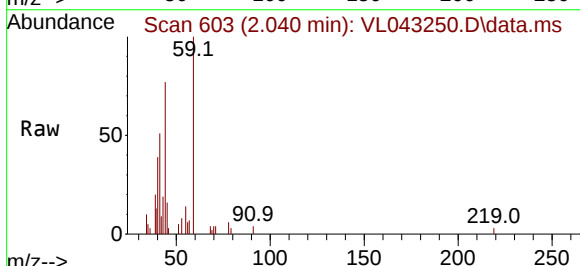
Acq: 19 Nov 2025 21:33

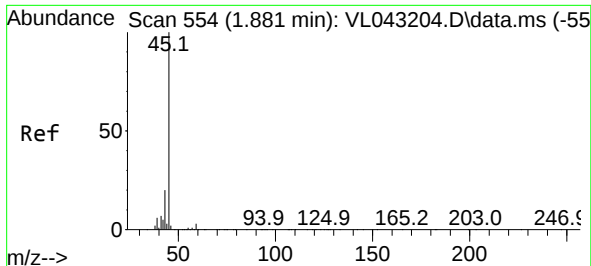
Tgt Ion: 59 Resp: 1346

Ion Ratio Lower Upper

59 100

57 36.6 9.0 13.4#

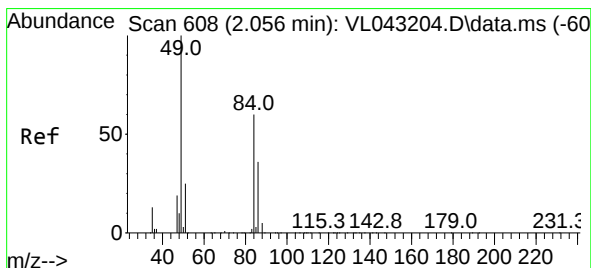
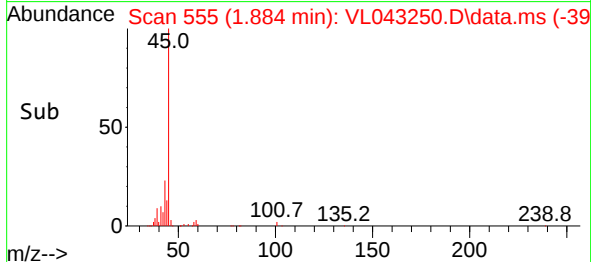
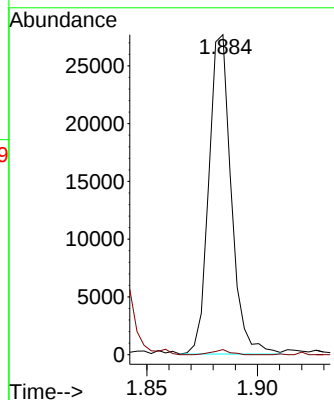
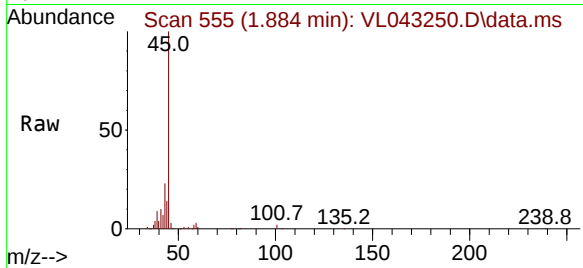




#19
Isopropyl Alcohol
Concen: 2.511 ppbv
RT: 1.884 min Scan# 51
Delta R.T. 0.003 min
Lab File: VL043250.D
Acq: 19 Nov 2025 21:33

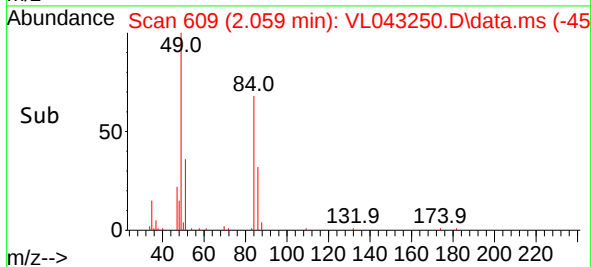
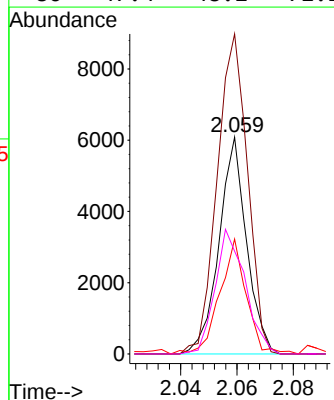
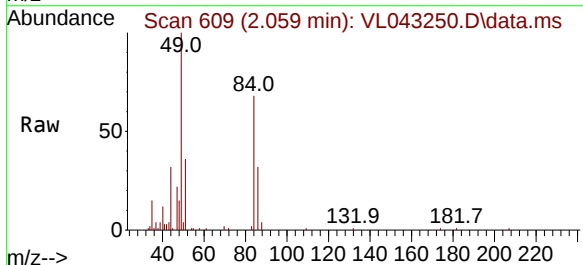
Instrument :
MSVOA_L
ClientSampleId :
9B-SG-2DL

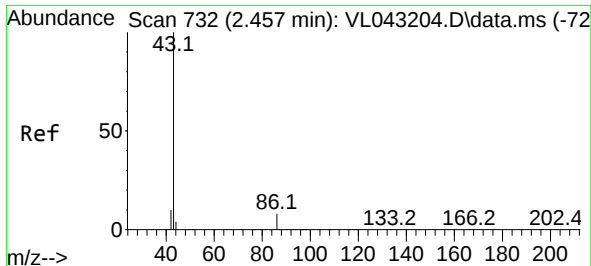
Tgt Ion: 45 Resp: 19406
Ion Ratio Lower Upper
45 100
58 157.1 31.3 46.9#



#20
Methylene Chloride
Concen: 0.264 ppbv
RT: 2.059 min Scan# 609
Delta R.T. 0.003 min
Lab File: VL043250.D
Acq: 19 Nov 2025 21:33

Tgt Ion: 84 Resp: 4144
Ion Ratio Lower Upper
84 100
49 147.6 132.9 199.3
51 51.9 34.8 52.2
86 47.4 48.2 72.2#

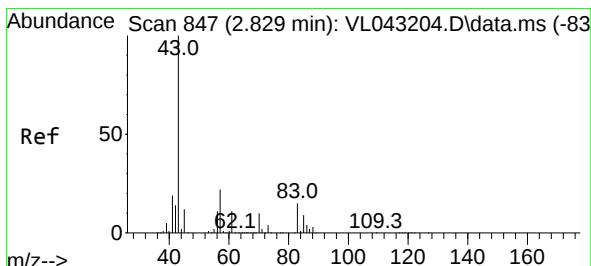
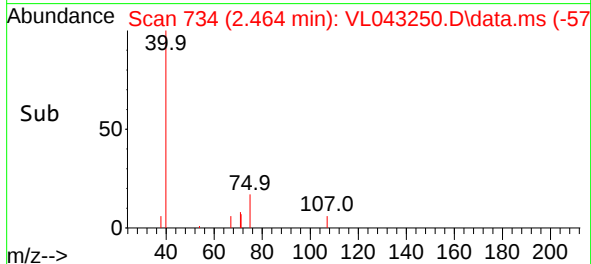
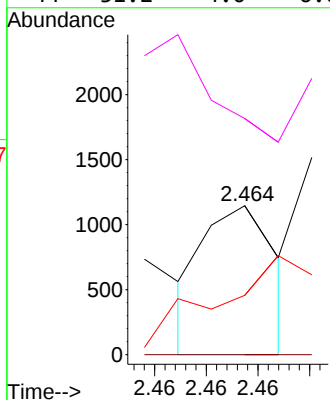
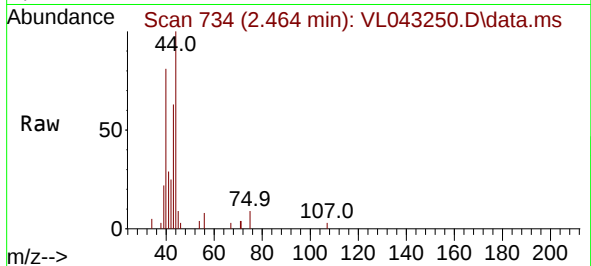




#23
 Vinyl Acetate
 Concen: 0.034 ppbv
 RT: 2.464 min Scan# 71
 Delta R.T. 0.007 min
 Lab File: VL043250.D
 Acq: 19 Nov 2025 21:33

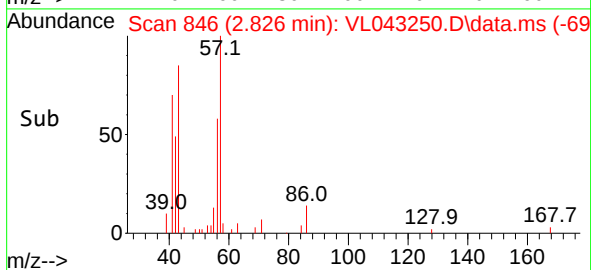
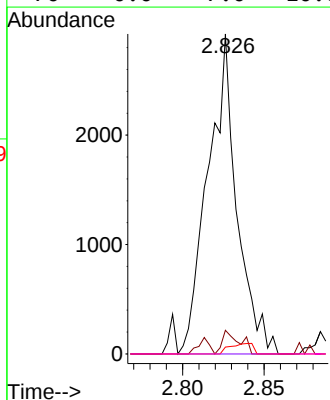
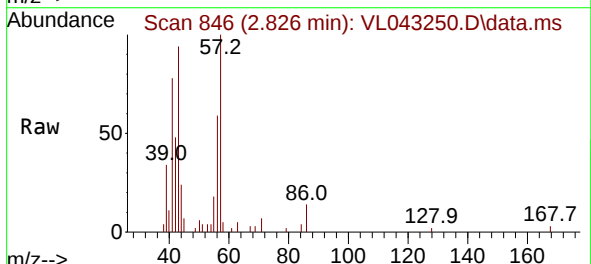
Instrument :
 MSVOA_1
 ClientSampleId :
 9B-SG-2DL

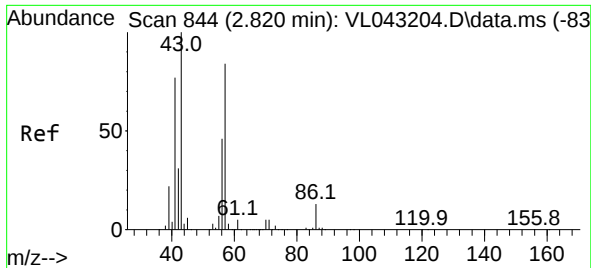
Tgt Ion: 43	Resp: 560
Ion Ratio	Lower Upper
43 100	
86 0.0	6.2 9.2#
42 4.5	8.0 12.0#
44 31.2	4.0 6.0#



#25
 Ethyl Acetate
 Concen: 0.122 ppbv
 RT: 2.826 min Scan# 846
 Delta R.T. -0.003 min
 Lab File: VL043250.D
 Acq: 19 Nov 2025 21:33

Tgt Ion: 43	Resp: 3607
Ion Ratio	Lower Upper
43 100	
45 6.2	8.1 12.1#
61 2.6	7.0 10.4#
70 0.0	7.0 10.6#

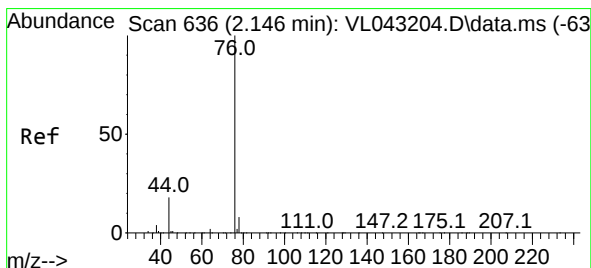
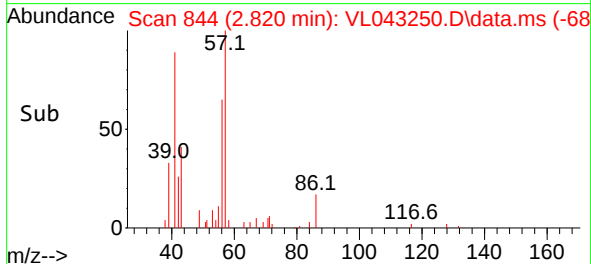
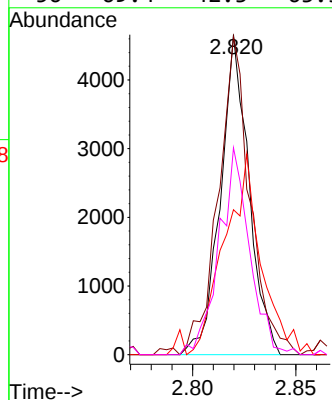
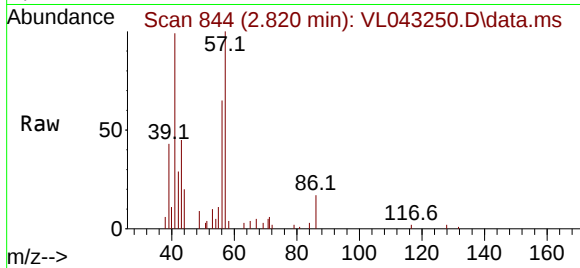




#26
Hexane
Concen: 0.345 ppbv
RT: 2.820 min Scan# 844
Delta R.T. 0.000 min
Lab File: VL043250.D
Acq: 19 Nov 2025 21:33

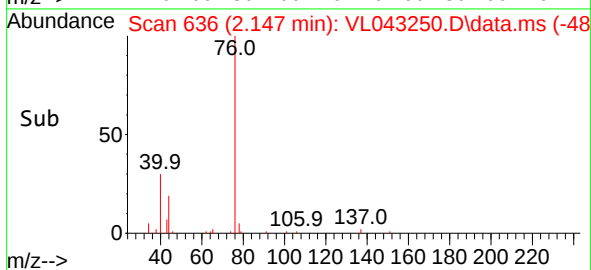
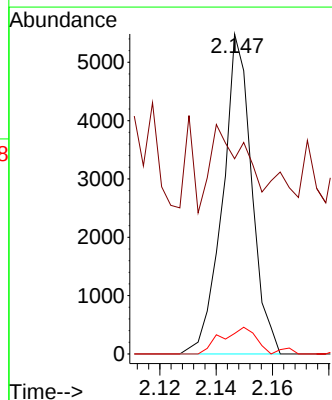
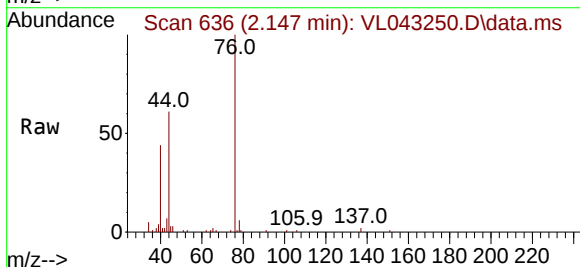
Instrument :
MSVOA_1
ClientSampleId :
9B-SG-2DL

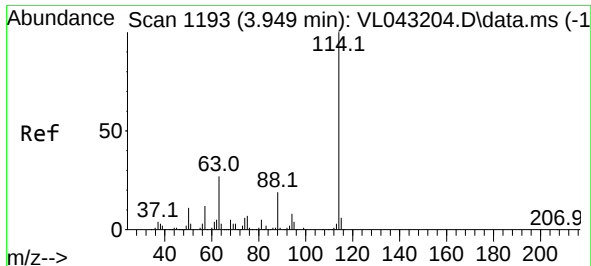
Tgt Ion:	57	Resp:	4464
Ion	Ratio	Lower	Upper
57	100		
41	112.3	74.6	111.8#
43	82.8	179.0	268.4#
56	69.4	42.3	63.5#



#27
Carbon Disulfide
Concen: 0.297 ppbv
RT: 2.147 min Scan# 636
Delta R.T. 0.000 min
Lab File: VL043250.D
Acq: 19 Nov 2025 21:33

Tgt Ion:	76	Resp:	3921
Ion	Ratio	Lower	Upper
76	100		
44	251.3	16.1	24.1#
78	10.7	9.6	14.4

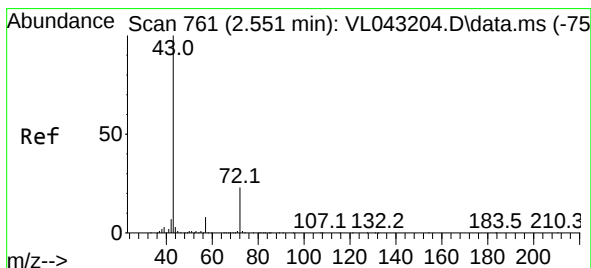
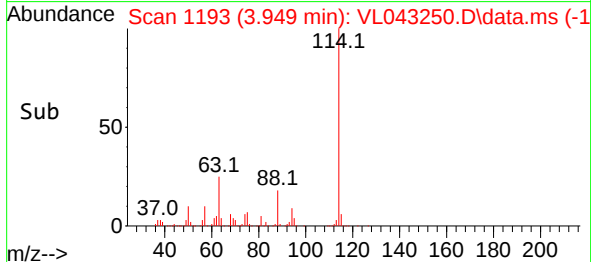
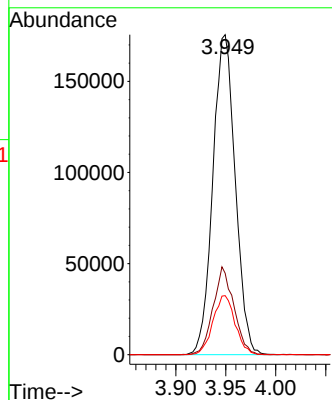
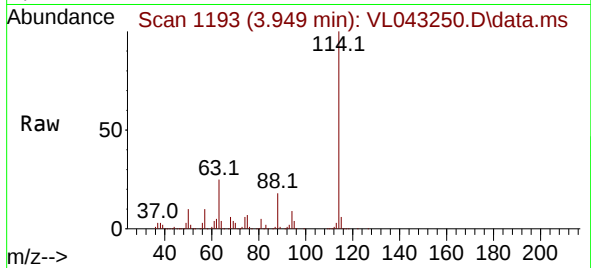




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.949 min Scan# 1193
Delta R.T. 0.000 min
Lab File: VL043250.D
Acq: 19 Nov 2025 21:33

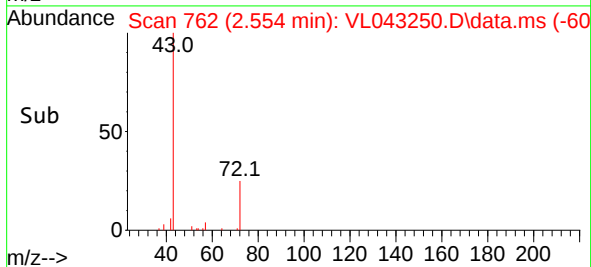
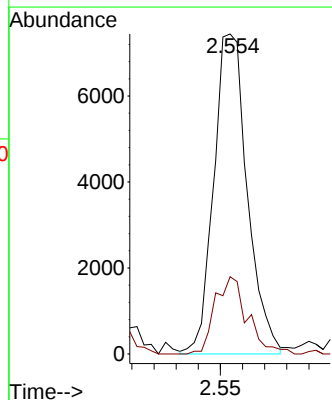
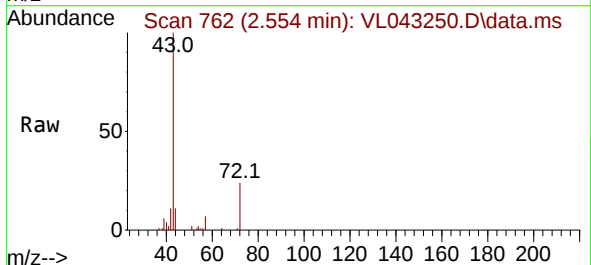
Instrument :
MSVOA_1
ClientSampleId :
9B-SG-2DL

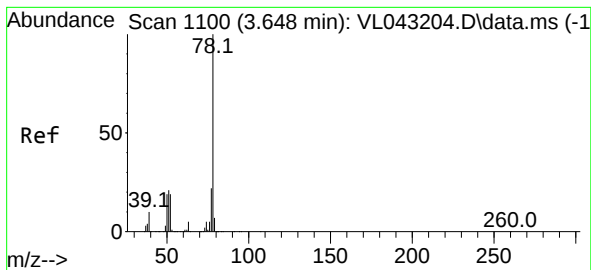
Tgt Ion:114 Resp: 273742
Ion Ratio Lower Upper
114 100
63 25.4 21.0 31.6
88 18.2 14.9 22.3



#34
2-Butanone
Concen: 0.407 ppbv
RT: 2.554 min Scan# 762
Delta R.T. 0.003 min
Lab File: VL043250.D
Acq: 19 Nov 2025 21:33

Tgt Ion: 43 Resp: 7858
Ion Ratio Lower Upper
43 100
72 23.7 18.1 27.1





#36

Benzene

Concen: 2.029 ppbv

RT: 3.648 min Scan# 1100

Delta R.T. 0.000 min

Lab File: VL043250.D

Acq: 19 Nov 2025 21:33

Instrument :

MSVOA_L

ClientSampleId :

9B-SG-2DL

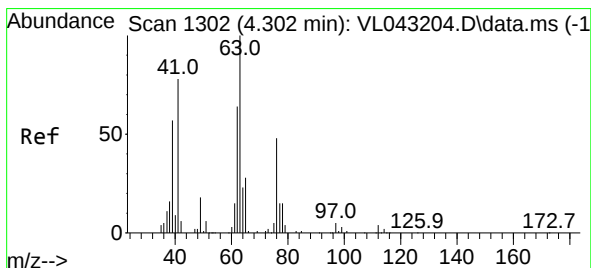
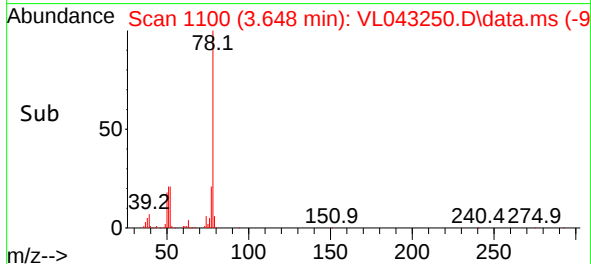
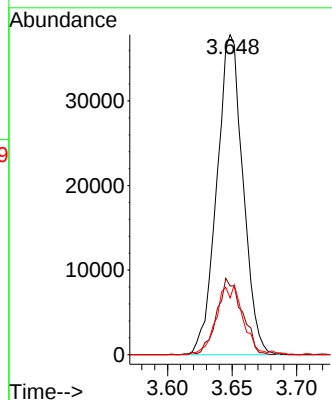
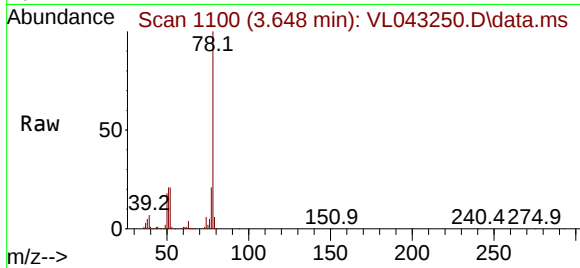
Tgt Ion: 78 Resp: 53179

Ion Ratio Lower Upper

78 100

77 21.5 17.5 26.3

50 17.8 15.5 23.3



#39

1,2-Dichloropropane

Concen: 7.240 ppbv

RT: 3.946 min Scan# 1192

Delta R.T. -0.356 min

Lab File: VL043250.D

Acq: 19 Nov 2025 21:33

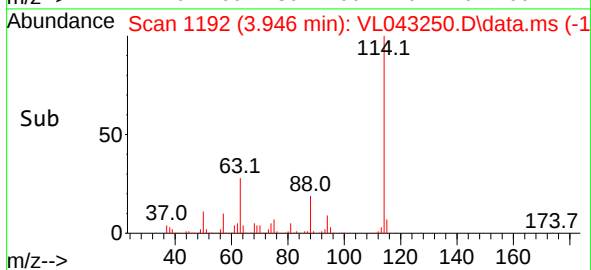
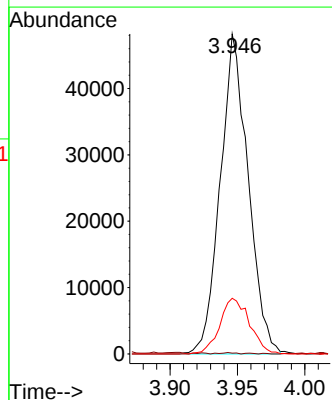
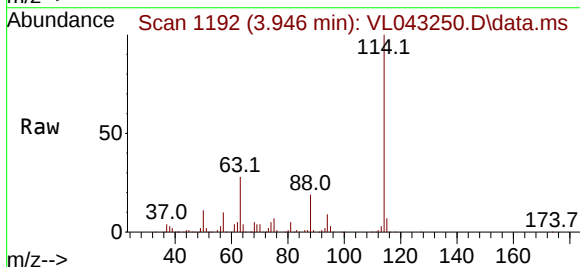
Tgt Ion: 63 Resp: 69463

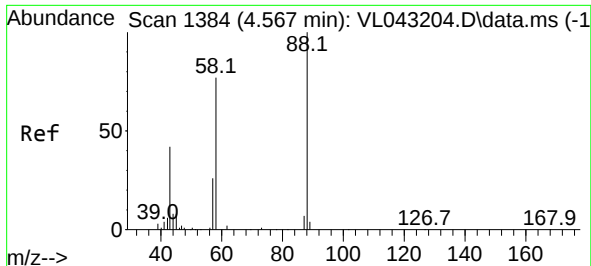
Ion Ratio Lower Upper

63 100

41 0.3 62.6 93.8#

62 17.4 51.0 76.6#

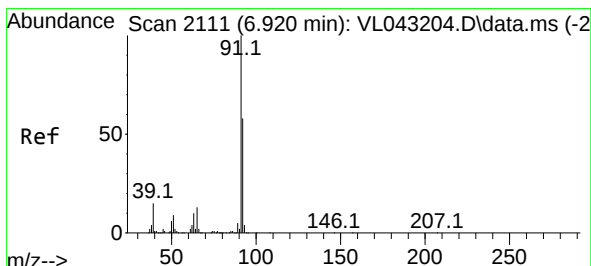
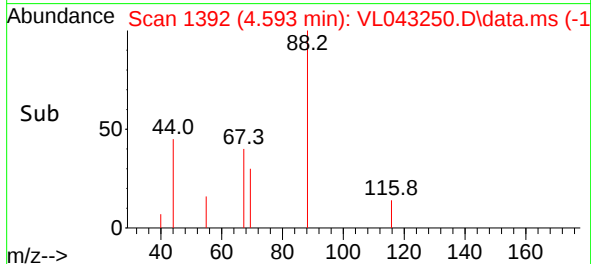
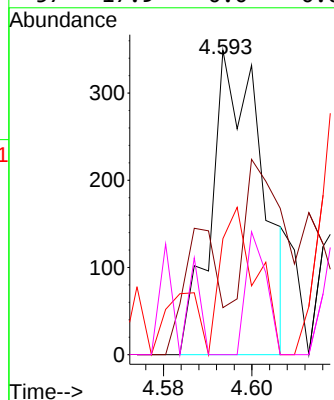
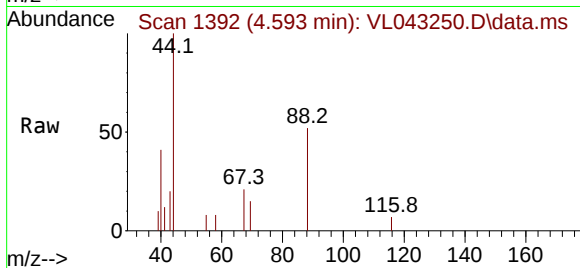




#40
 1,4-Dioxane
 Concen: 0.065 ppbv
 RT: 4.593 min Scan# 11
 Delta R.T. 0.026 min
 Lab File: VL043250.D
 Acq: 19 Nov 2025 21:33

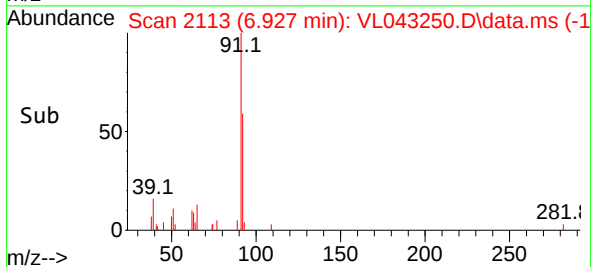
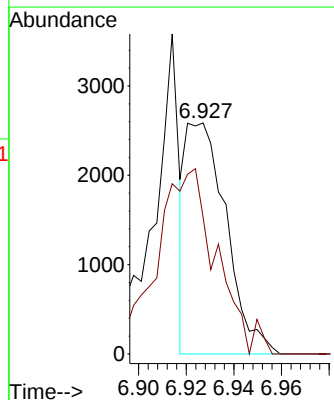
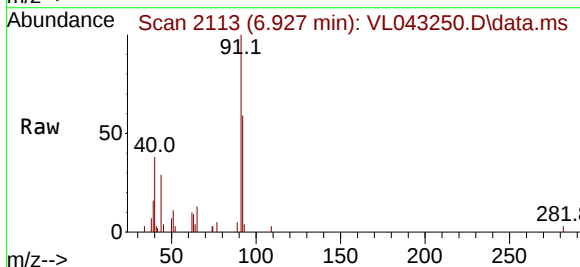
Instrument :
 MSVOA_L
 ClientSampleId :
 9B-SG-2DL

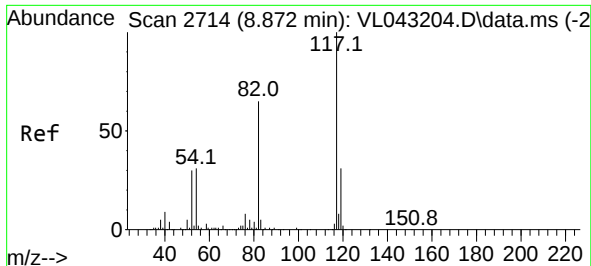
Tgt Ion: 88	Resp: 280
Ion Ratio	Lower Upper
88 100	
58 115.7	63.0 94.6#
43 68.2	32.5 48.7#
57 17.9	0.0 0.0#



#53
 Toluene
 Concen: 0.099 ppbv
 RT: 6.927 min Scan# 2113
 Delta R.T. 0.007 min
 Lab File: VL043250.D
 Acq: 19 Nov 2025 21:33

Tgt Ion: 91	Resp: 3064		
Ion Ratio	Lower	Upper	
91 100			
92 122.7	47.4	71.0#	

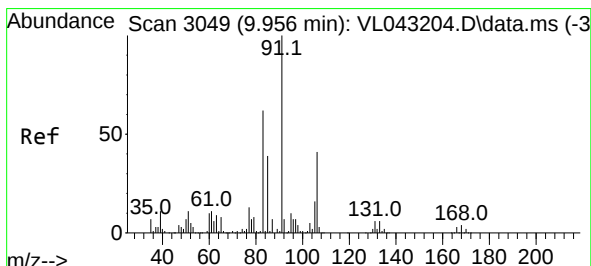
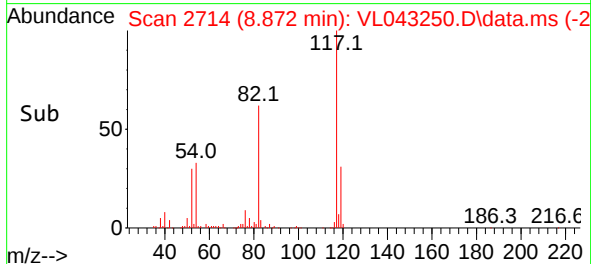
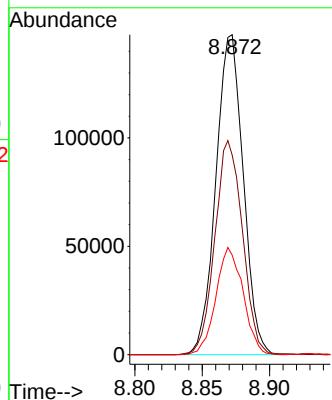
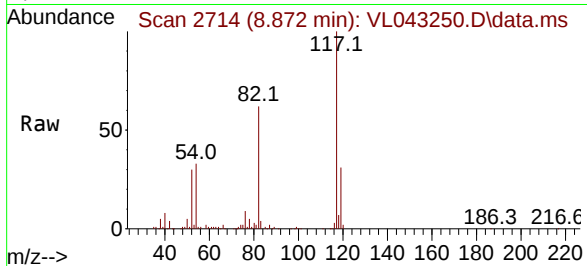




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.872 min Scan# 21
Delta R.T. 0.000 min
Lab File: VL043250.D
Acq: 19 Nov 2025 21:33

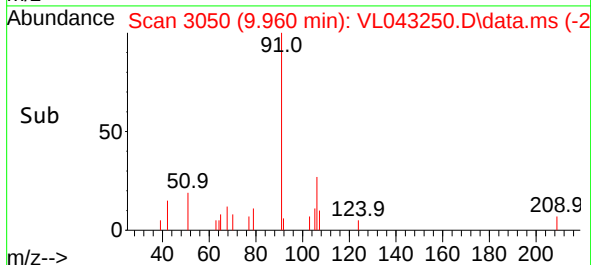
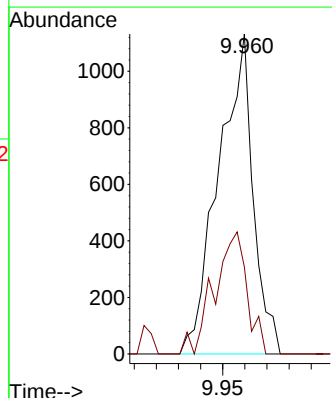
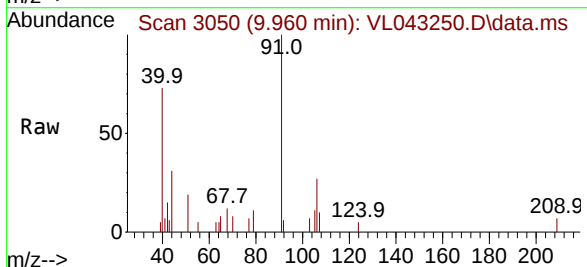
Instrument :
MSVOA_L
ClientSampleId :
9B-SG-2DL

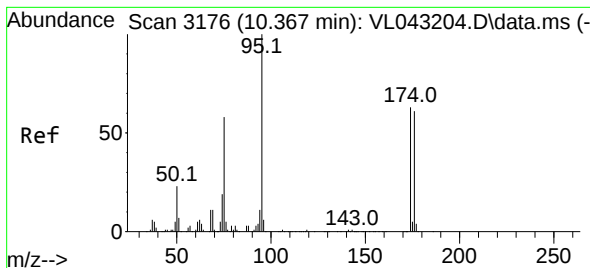
Tgt Ion:117 Resp: 208879
Ion Ratio Lower Upper
117 100
82 67.6 56.1 84.1
119 33.2 25.0 37.6



#60
o-Xylene
Concen: 0.038 ppbv
RT: 9.960 min Scan# 3050
Delta R.T. 0.003 min
Lab File: VL043250.D
Acq: 19 Nov 2025 21:33

Tgt Ion: 91 Resp: 1226
Ion Ratio Lower Upper
91 100
106 39.0 20.9 62.8

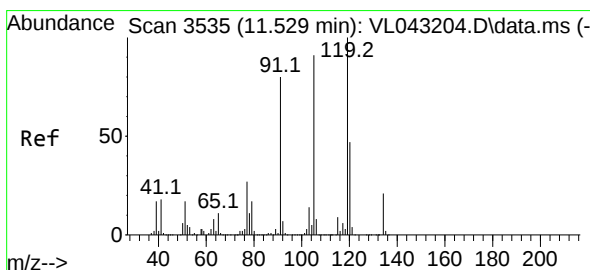
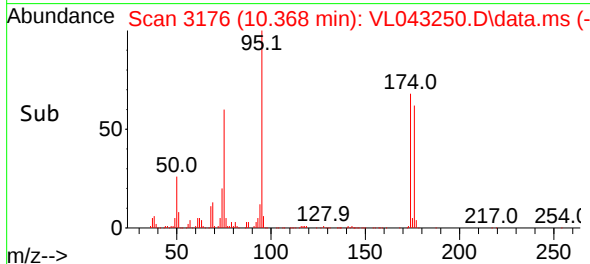
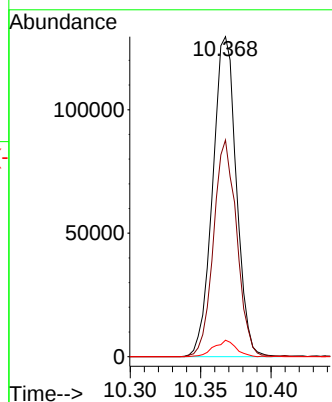
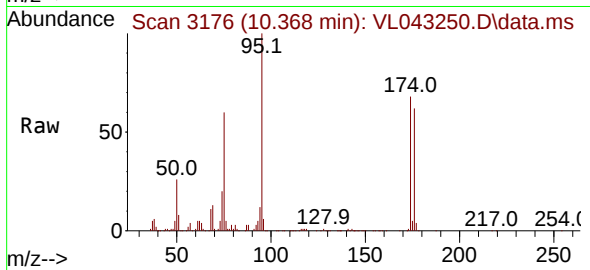




#68
1-Bromo-4-Fluorobenzene
Concen: 9.902 ppbv
RT: 10.368 min Scan# 3176
Delta R.T. 0.000 min
Lab File: VL043250.D
Acq: 19 Nov 2025 21:33

Instrument :
MSVOA_1
ClientSampleId :
9B-SG-2DL

Tgt Ion: 95 Resp: 151610
Ion Ratio Lower Upper
95 100
174 66.6 50.2 75.2
175 4.9 4.1 6.1



#74
1,2,4-Trimethylbenzene
Concen: 0.040 ppbv
RT: 11.530 min Scan# 3535
Delta R.T. 0.000 min
Lab File: VL043250.D
Acq: 19 Nov 2025 21:33

Tgt Ion: 105 Resp: 1433
Ion Ratio Lower Upper
105 100
120 47.2 41.7 62.5
91 21.2 70.0 105.0#
77 13.2 23.8 35.8#

