

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111925\
 Data File : VL043251.D
 Acq On : 19 Nov 2025 22:07
 Operator : SY/MD
 Sample : Q3626-05DL 20X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 10-SG-1DL

Quant Time: Nov 20 00:12:17 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)

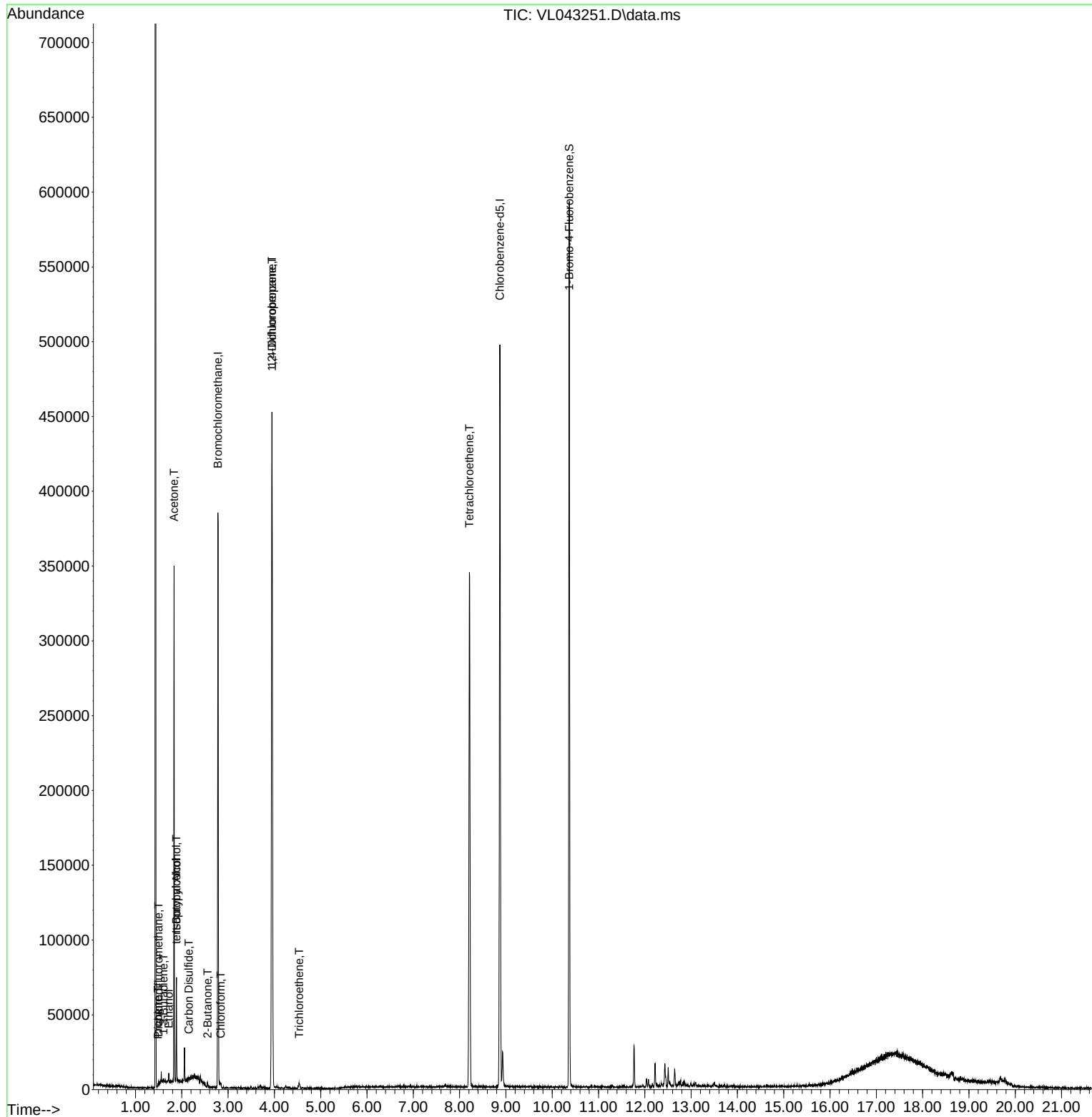
Internal Standards						
1) Bromochloromethane	2.781	49	98540	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.946	114	260350	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.869	117	200769	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.367	95	138896	9.438	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	94.400%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.499	85	452	0.033	ppbv #	67
9) Propene	1.486	41	214	0.037	ppbv #	86
13) Ethanol	1.719	45	2156	1.056	ppbv	92
15) Acetone	1.832	43	143219	10.461	ppbv	98
16) 1,3-Butadiene	1.602	39	519	0.085	ppbv #	20
17) tert-Butyl alcohol	1.881	59	968	0.054	ppbv	96
19) Isopropyl Alcohol	1.884	45	29365	3.796	ppbv #	1
20) Methylene Chloride	2.059	84	2990	Below Cal		94
27) Carbon Disulfide	2.149	76	496	0.038	ppbv #	1
29) Chloroform	2.839	83	936	0.051	ppbv	84
34) 2-Butanone	2.557	43	1772	0.096	ppbv	97
38) Trichloroethene	4.532	130	623	0.064	ppbv #	60
39) 1,2-Dichloropropane	3.949	63	66492	7.286	ppbv #	23
52) Tetrachloroethene	8.212	164	61105	6.588	ppbv	97

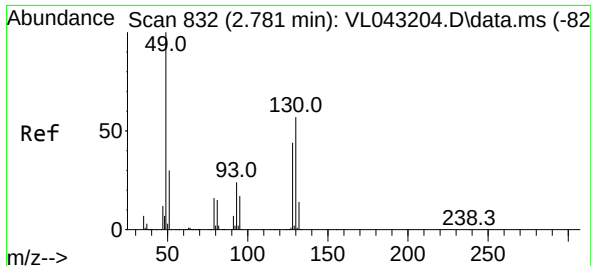
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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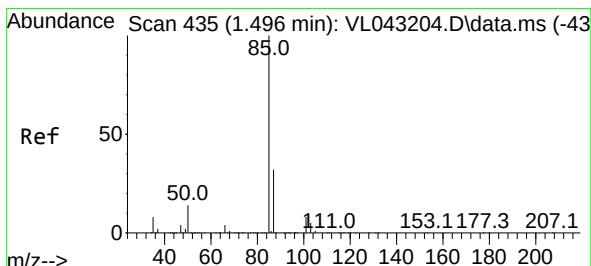
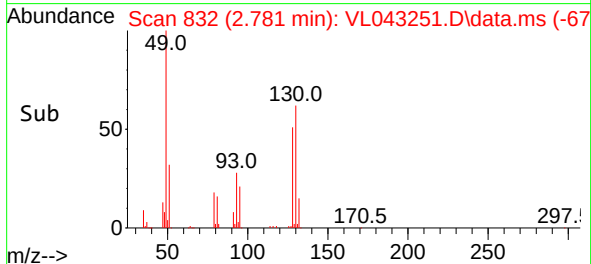
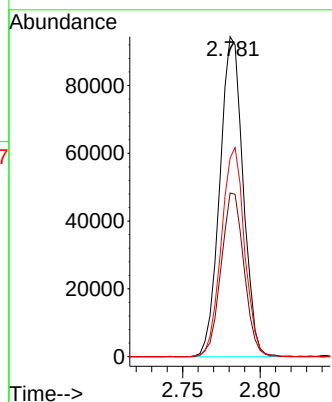
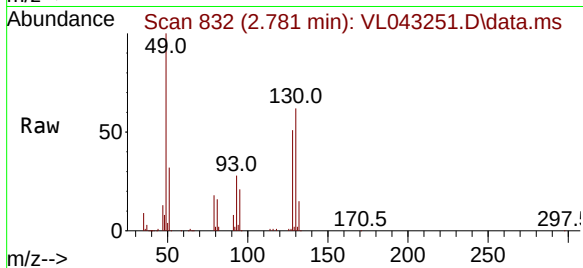




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.781 min Scan# 81
Delta R.T. -0.000 min
Lab File: VL043251.D
Acq: 19 Nov 2025 22:07

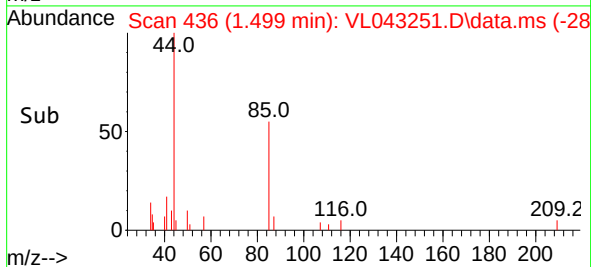
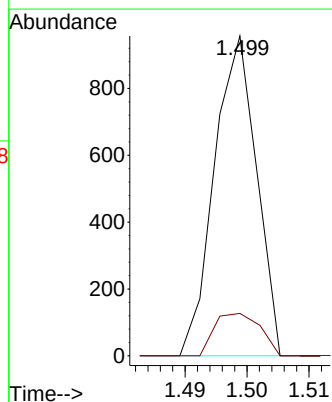
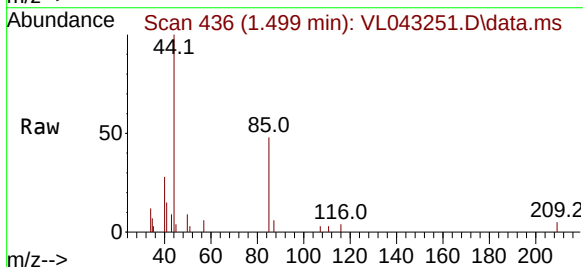
Instrument :
MSVOA_L
ClientSampleId :
10-SG-1DL

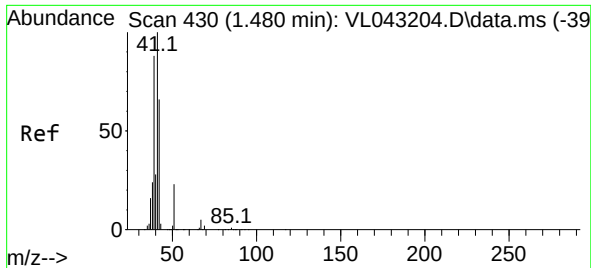
Tgt Ion: 49 Resp: 98540
Ion Ratio Lower Upper
49 100
128 50.6 23.0 69.0
130 65.1 29.9 89.7



#2
Dichlorodifluoromethane
Concen: 0.033 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.003 min
Lab File: VL043251.D
Acq: 19 Nov 2025 22:07

Tgt Ion: 85 Resp: 452
Ion Ratio Lower Upper
85 100
87 13.3 25.4 38.2#





#9

Propene

Concen: 0.037 ppbv

RT: 1.486 min Scan# 41

Delta R.T. 0.006 min

Lab File: VL043251.D

Acq: 19 Nov 2025 22:07

Instrument :

MSVOA_L

ClientSampleId :

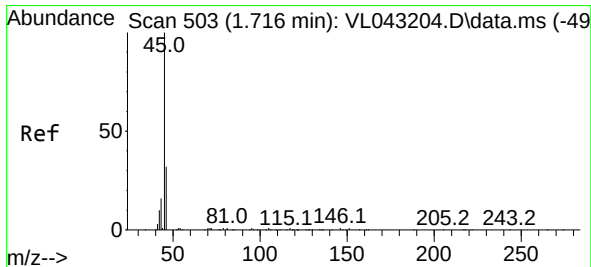
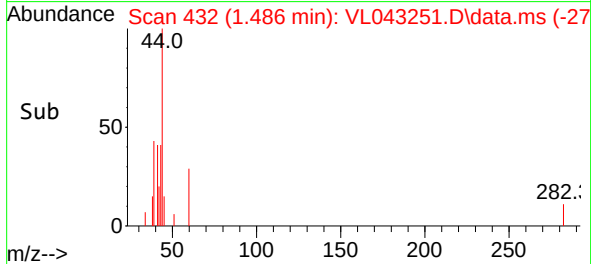
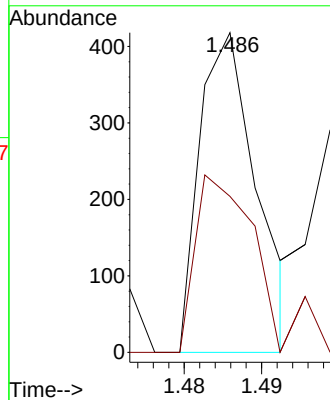
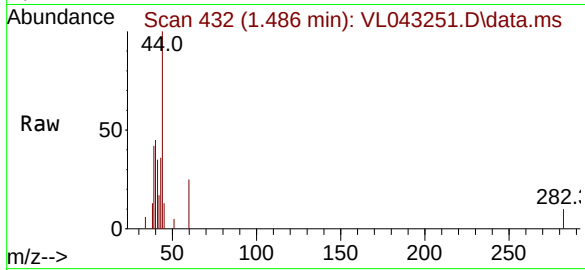
10-SG-1DL

Tgt Ion: 41 Resp: 214

Ion Ratio Lower Upper

41 100

42 0.0 3.7 5.5#



#13

Ethanol

Concen: 1.056 ppbv

RT: 1.719 min Scan# 504

Delta R.T. 0.003 min

Lab File: VL043251.D

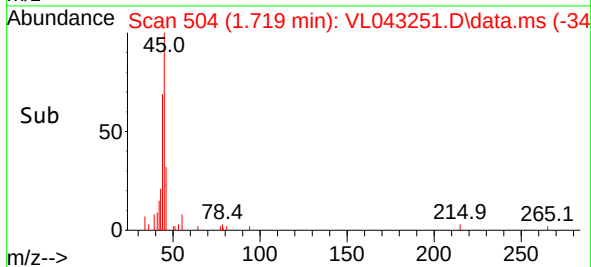
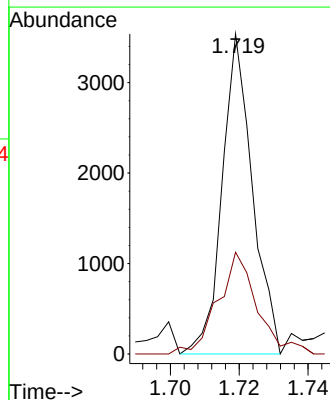
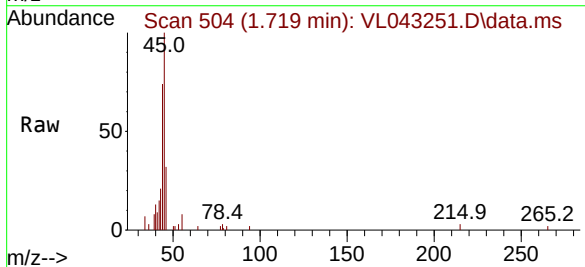
Acq: 19 Nov 2025 22:07

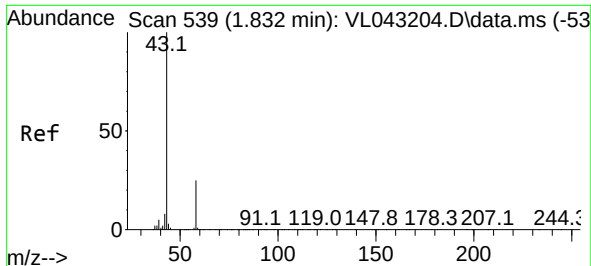
Tgt Ion: 45 Resp: 2156

Ion Ratio Lower Upper

45 100

46 42.1 15.0 59.8

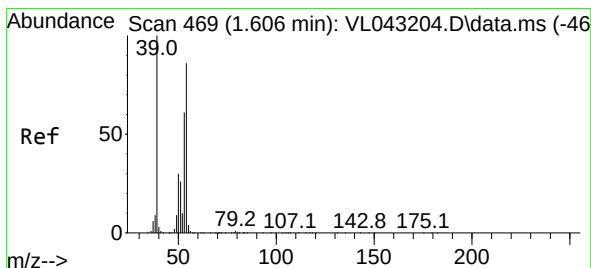
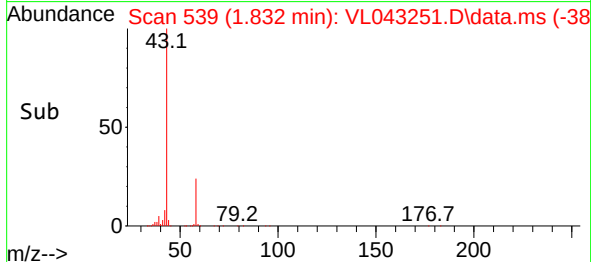
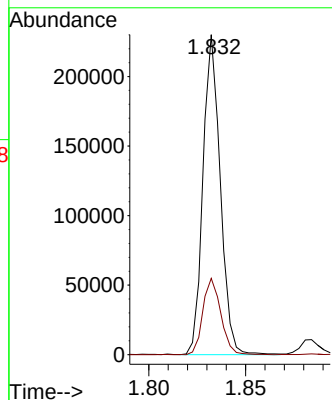
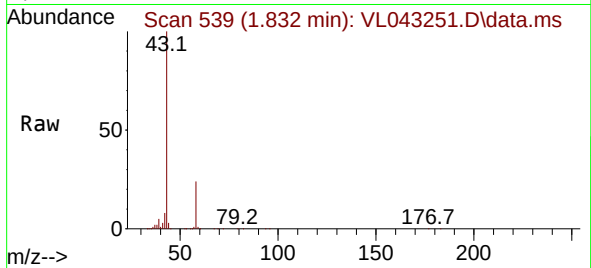




#15
Acetone
Concen: 10.461 ppbv
RT: 1.832 min Scan# 51
Delta R.T. -0.000 min
Lab File: VL043251.D
Acq: 19 Nov 2025 22:07

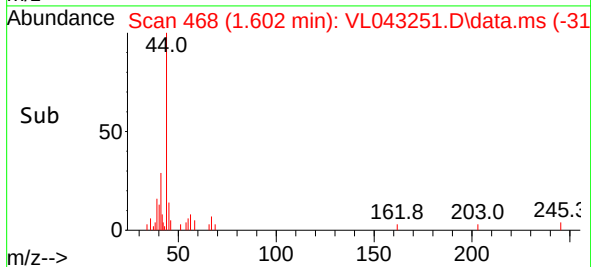
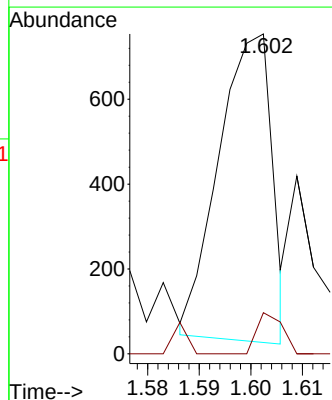
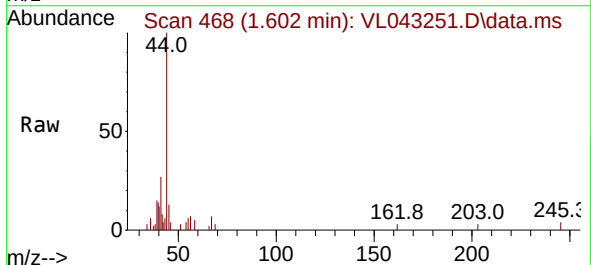
Instrument :
MSVOA_L
ClientSampleId :
10-SG-1DL

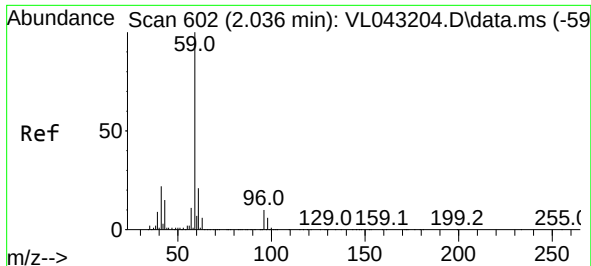
Tgt Ion: 43 Resp: 143219
Ion Ratio Lower Upper
43 100
58 24.8 20.7 31.1



#16
1,3-Butadiene
Concen: 0.085 ppbv
RT: 1.602 min Scan# 468
Delta R.T. -0.003 min
Lab File: VL043251.D
Acq: 19 Nov 2025 22:07

Tgt Ion: 39 Resp: 519
Ion Ratio Lower Upper
39 100
54 6.4 59.4 89.2#

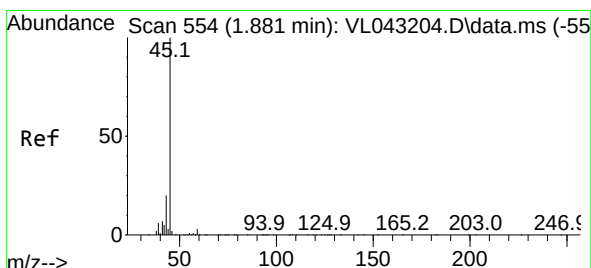
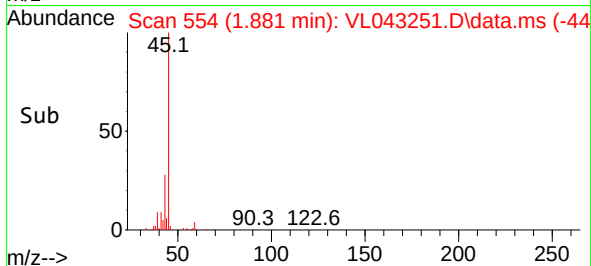
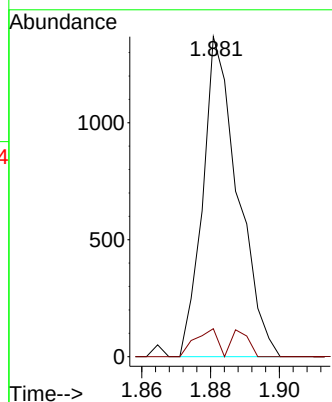
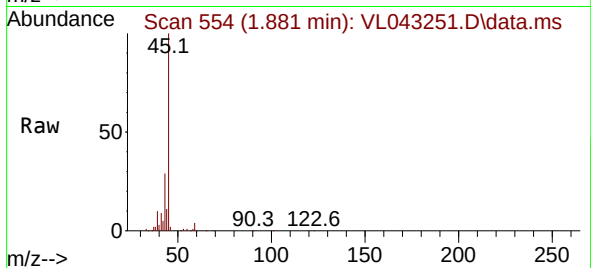




#17
tert-Butyl alcohol
Concen: 0.054 ppbv
RT: 1.881 min Scan# 51
Delta R.T. -0.156 min
Lab File: VL043251.D
Acq: 19 Nov 2025 22:07

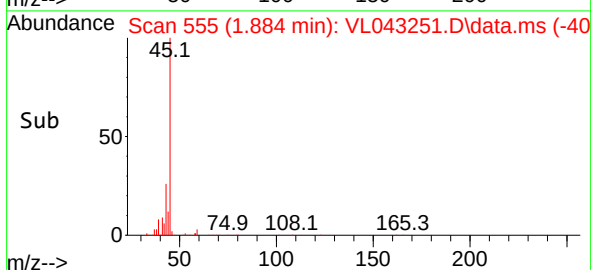
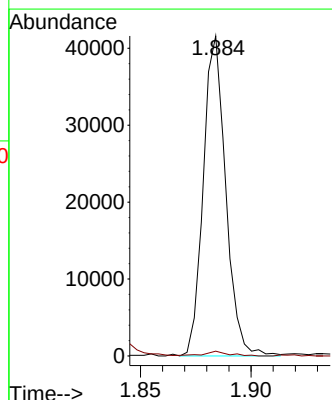
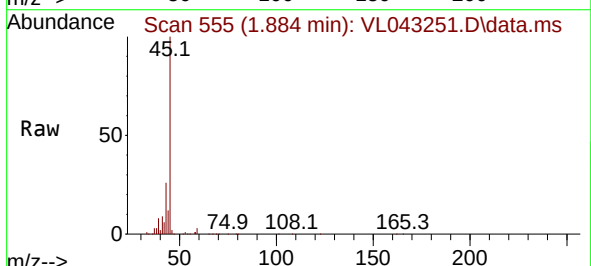
Instrument :
MSVOA_1
ClientSampleId :
10-SG-1DL

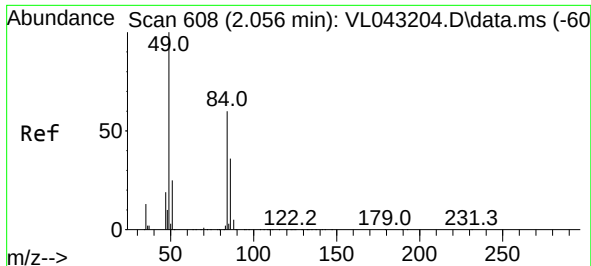
Tgt Ion: 59 Resp: 968
Ion Ratio Lower Upper
59 100
57 9.7 9.0 13.4



#19
Isopropyl Alcohol
Concen: 3.796 ppbv
RT: 1.884 min Scan# 555
Delta R.T. 0.003 min
Lab File: VL043251.D
Acq: 19 Nov 2025 22:07

Tgt Ion: 45 Resp: 29365
Ion Ratio Lower Upper
45 100
58 120.7 31.3 46.9#



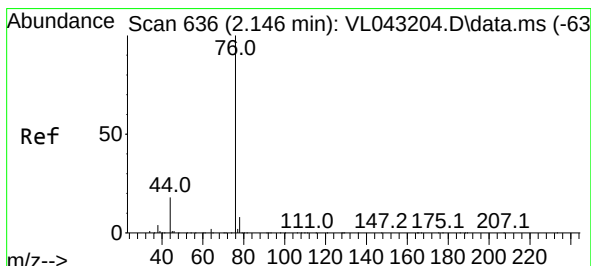
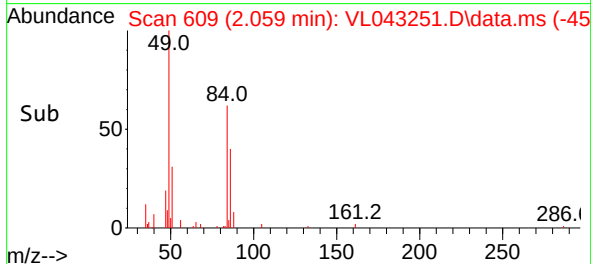
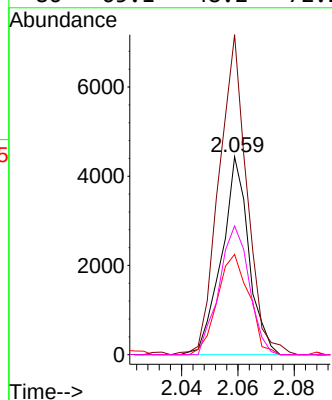
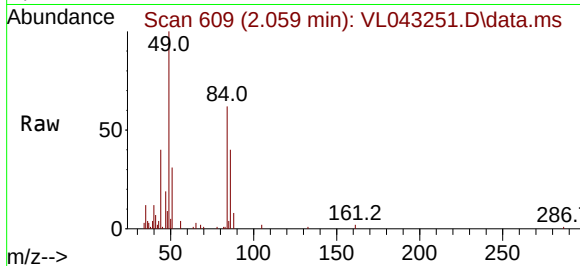


#20
Methylene Chloride
Concen: Below Cal
RT: 2.059 min Scan# 608
Delta R.T. 0.003 min
Lab File: VL043251.D
Acq: 19 Nov 2025 22:07

Instrument :
MSVOA_L
ClientSampleId :
10-SG-1DL

Tgt Ion: 84 Resp: 2990

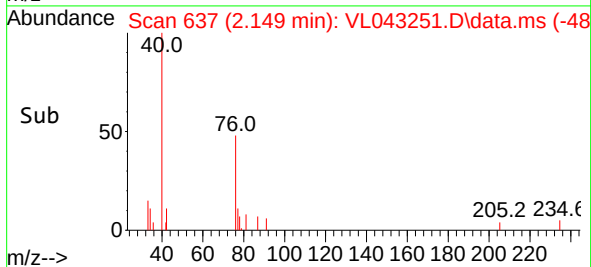
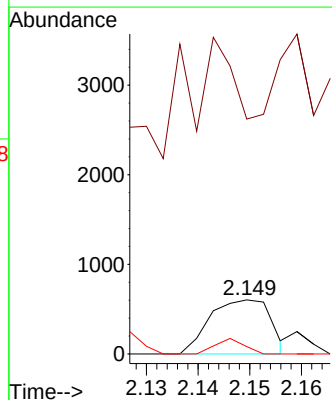
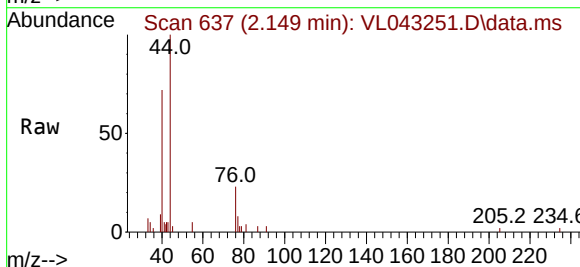
Ion	Ratio	Lower	Upper
84	100		
49	160.6	132.9	199.3
51	50.7	34.8	52.2
86	65.1	48.2	72.2

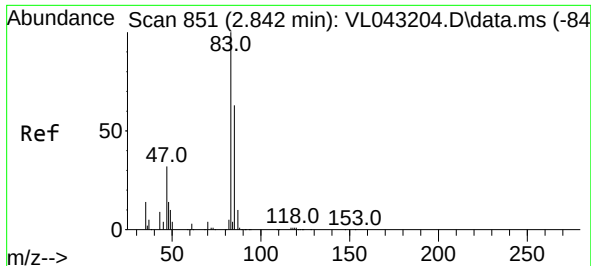


#27
Carbon Disulfide
Concen: 0.038 ppbv
RT: 2.149 min Scan# 637
Delta R.T. 0.003 min
Lab File: VL043251.D
Acq: 19 Nov 2025 22:07

Tgt Ion: 76 Resp: 496

Ion	Ratio	Lower	Upper
76	100		
44	571.2	16.1	24.1#
78	33.5	9.6	14.4#





#29

Chloroform

Concen: 0.051 ppbv

RT: 2.839 min Scan# 81

Delta R.T. -0.003 min

Lab File: VL043251.D

Acq: 19 Nov 2025 22:07

Instrument :

MSVOA_L

ClientSampleId :

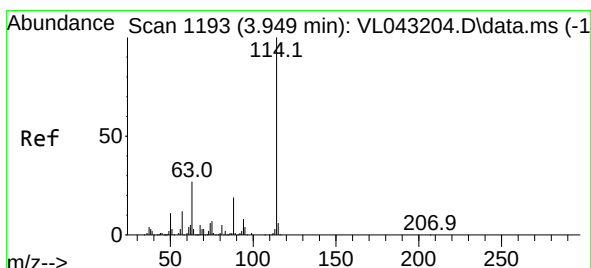
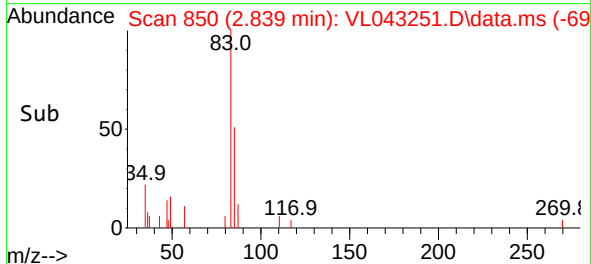
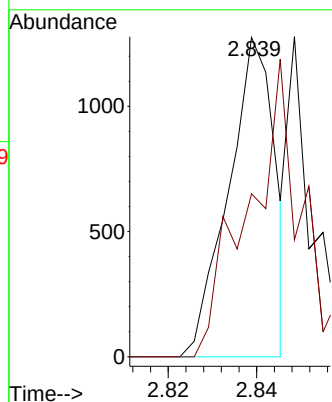
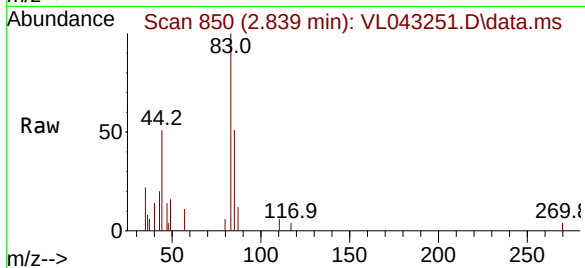
10-SG-1DL

Tgt Ion: 83 Resp: 936

Ion Ratio Lower Upper

83 100

85 51.1 50.5 75.7



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.946 min Scan# 1192

Delta R.T. -0.003 min

Lab File: VL043251.D

Acq: 19 Nov 2025 22:07

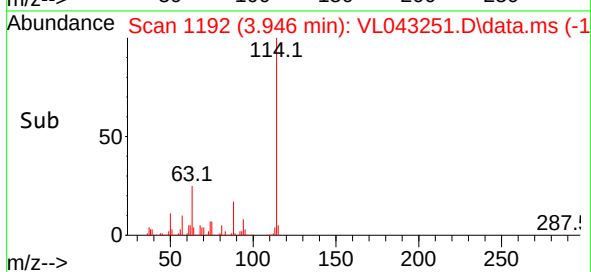
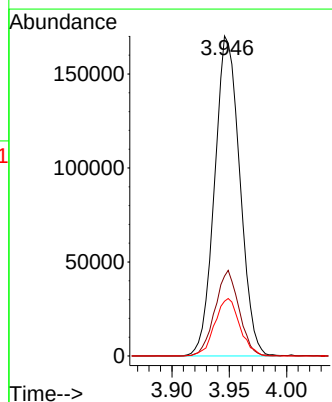
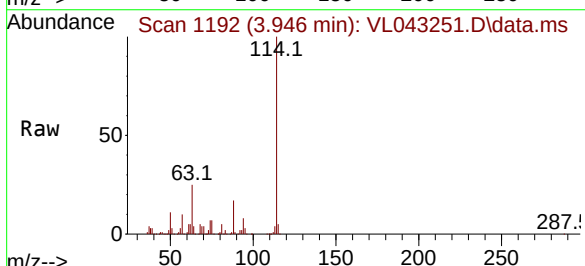
Tgt Ion: 114 Resp: 260350

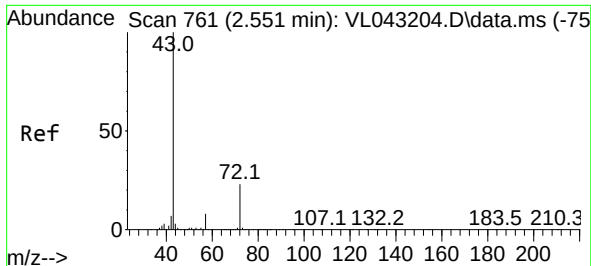
Ion Ratio Lower Upper

114 100

63 25.6 21.0 31.6

88 17.9 14.9 22.3

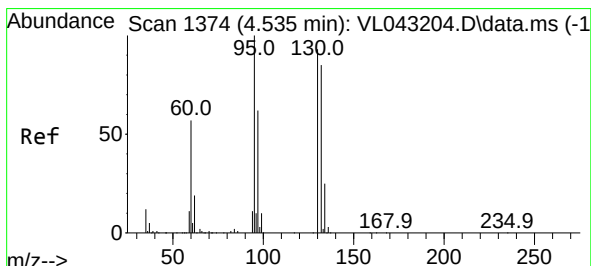
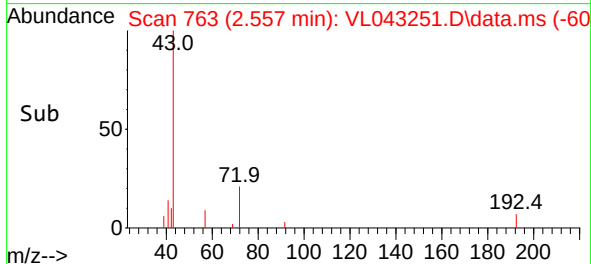
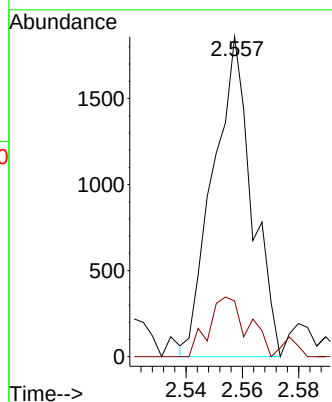
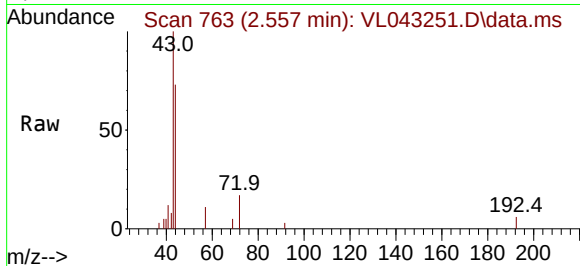




#34
2-Butanone
Concen: 0.096 ppbv
RT: 2.557 min Scan# 761
Delta R.T. 0.006 min
Lab File: VL043251.D
Acq: 19 Nov 2025 22:07

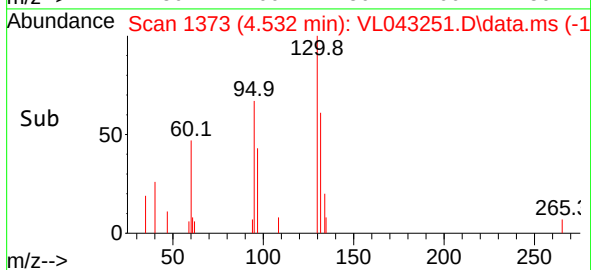
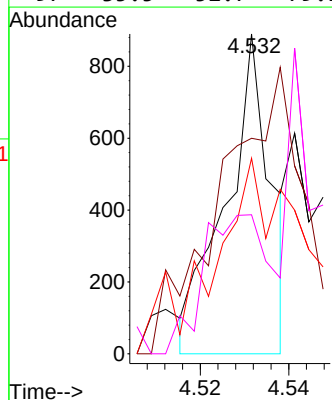
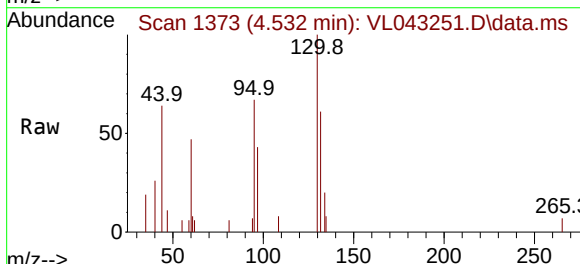
Instrument :
MSVOA_L
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10-SG-1DL

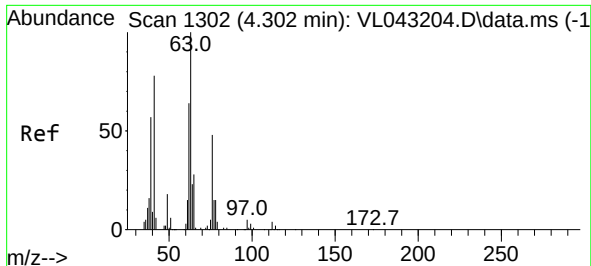
Tgt Ion: 43 Resp: 1772
Ion Ratio Lower Upper
43 100
72 21.3 18.1 27.1



#38
Trichloroethene
Concen: 0.064 ppbv
RT: 4.532 min Scan# 1373
Delta R.T. -0.003 min
Lab File: VL043251.D
Acq: 19 Nov 2025 22:07

Tgt Ion: 130 Resp: 623
Ion Ratio Lower Upper
130 100
95 55.5 85.7 128.5#
132 62.1 73.4 110.0#
97 35.5 52.7 79.1#





#39

1,2-Dichloropropane

Concen: 7.286 ppbv

RT: 3.949 min Scan# 1193

Delta R.T. -0.353 min

Lab File: VL043251.D

Acq: 19 Nov 2025 22:07

Instrument :

MSVOA_L

ClientSampleId :

10-SG-1DL

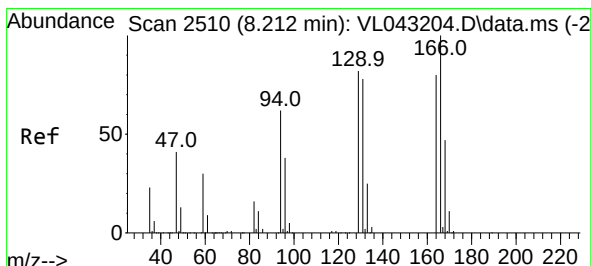
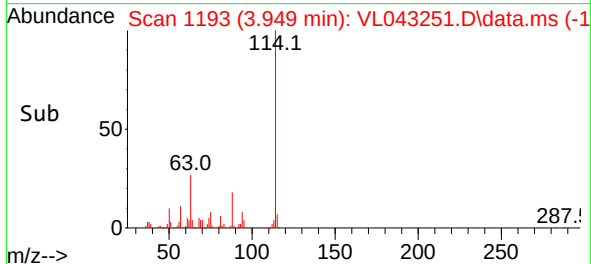
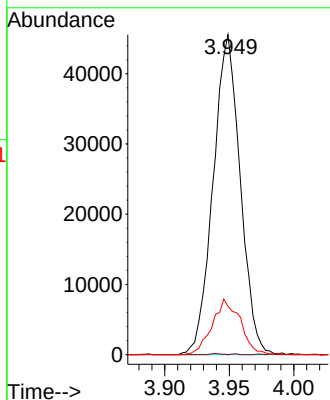
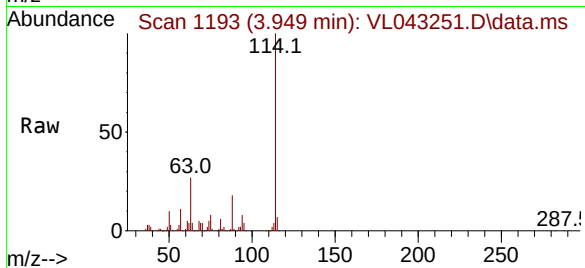
Tgt Ion: 63 Resp: 66492

Ion Ratio Lower Upper

63 100

41 0.0 62.6 93.8#

62 15.2 51.0 76.6#



#52

Tetrachloroethene

Concen: 6.588 ppbv

RT: 8.212 min Scan# 2510

Delta R.T. -0.000 min

Lab File: VL043251.D

Acq: 19 Nov 2025 22:07

Tgt Ion:164 Resp: 61105

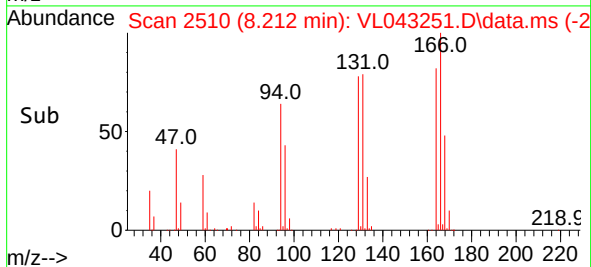
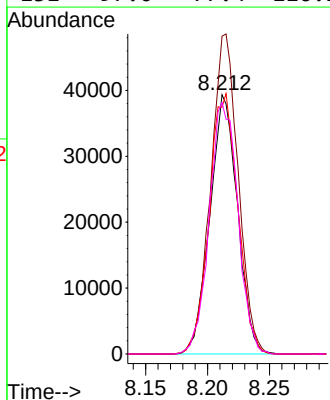
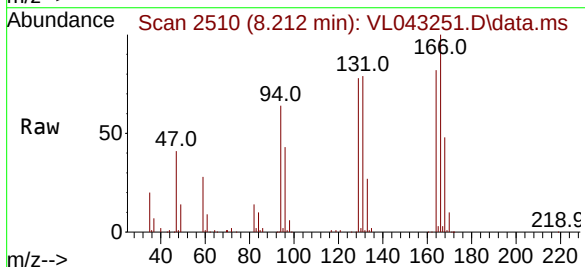
Ion Ratio Lower Upper

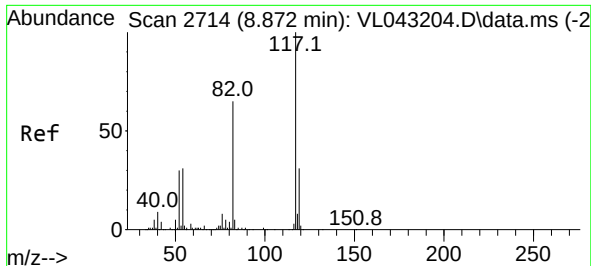
164 100

166 122.5 99.4 149.2

129 95.2 81.8 122.8

131 97.0 77.4 116.2

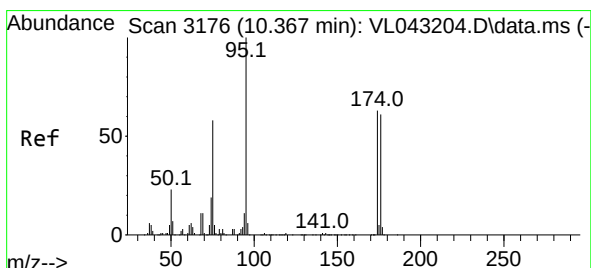
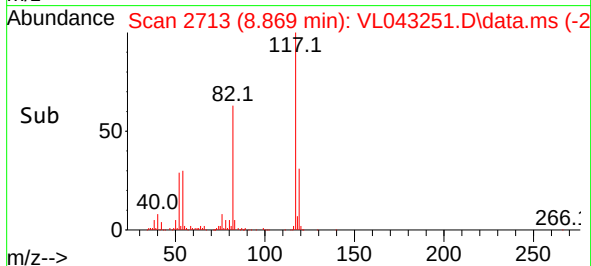
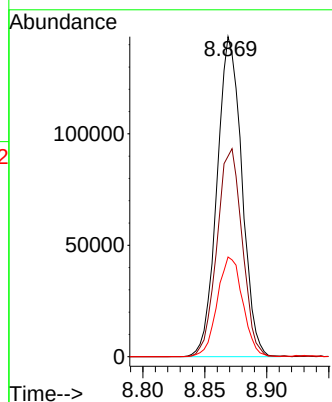
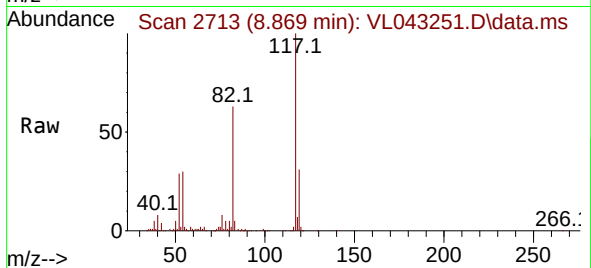




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.869 min Scan# 21
Delta R.T. -0.003 min
Lab File: VL043251.D
Acq: 19 Nov 2025 22:07

Instrument :
MSVOA_L
ClientSampleId :
10-SG-1DL

Tgt Ion:117 Resp: 200769
Ion Ratio Lower Upper
117 100
82 66.3 56.1 84.1
119 32.0 25.0 37.6



#68
1-Bromo-4-Fluorobenzene
Concen: 9.438 ppbv
RT: 10.367 min Scan# 3176
Delta R.T. -0.000 min
Lab File: VL043251.D
Acq: 19 Nov 2025 22:07

Tgt Ion: 95 Resp: 138896
Ion Ratio Lower Upper
95 100
174 65.9 50.2 75.2
175 5.2 4.1 6.1

