

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL112025\
 Data File : VL043269.D
 Acq On : 20 Nov 2025 17:27
 Operator : SY/MD
 Sample : Q3655-03DL 10X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SG-3DL

Quant Time: Nov 21 00:41:21 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)

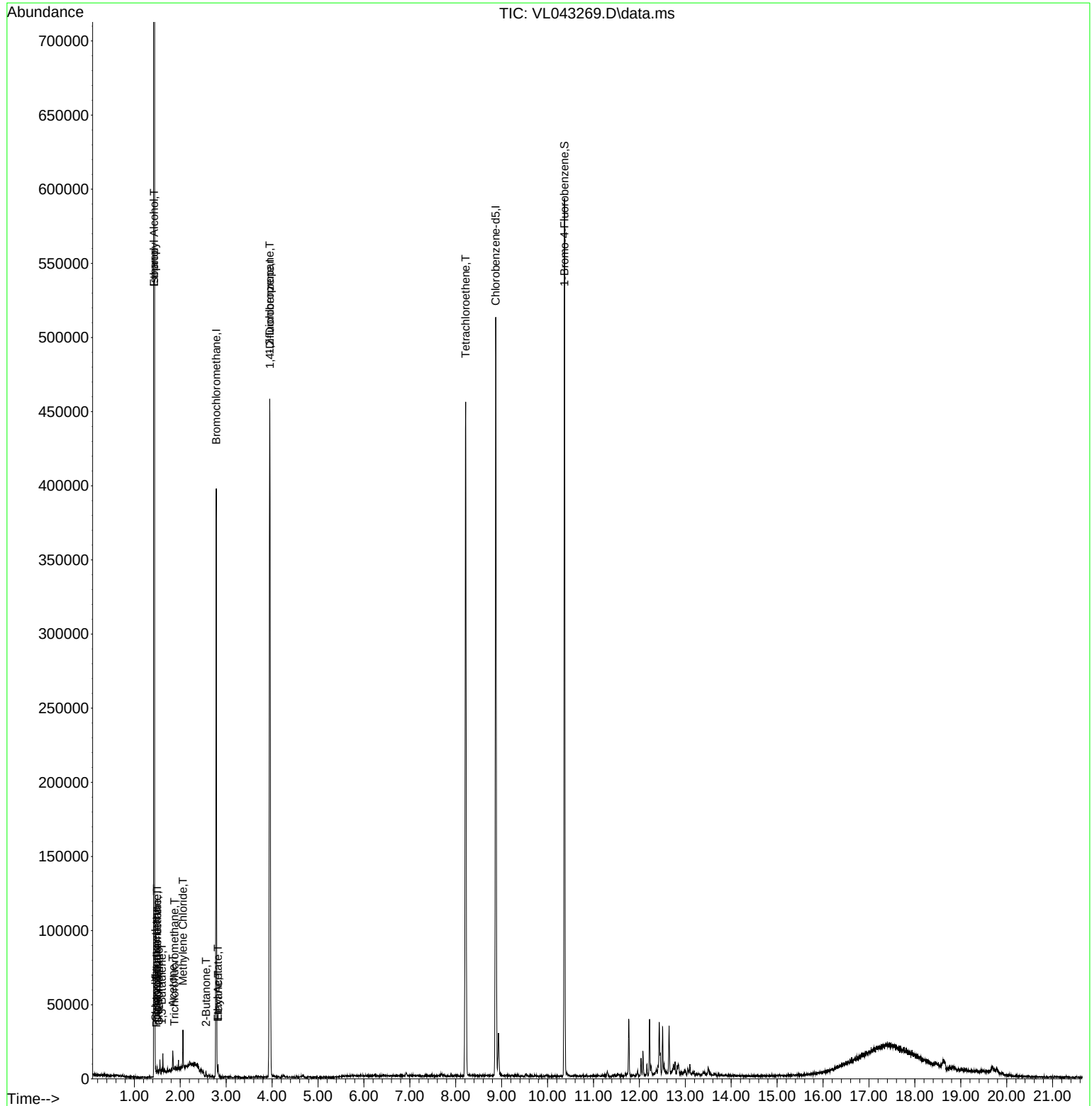
Internal Standards						
1) Bromochloromethane	2.784	49	101941	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.952	114	262812	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.869	117	203972	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.367	95	143816	9.619	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.200%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.499	85	969	0.067	ppbv #	77
3) Chlorodifluoromethane	1.466	51	2160	0.153	ppbv #	67
4) Chloromethane	1.531	50	388	0.072	ppbv #	80
8) Dichlorotetrafluoroethane	1.499	85	969	0.081	ppbv #	17
9) Propene	1.483	41	336	0.056	ppbv #	86
11) Trichlorofluoromethane	1.874	101	439	0.032	ppbv	84
13) Ethanol	1.431	45	252943	119.799	ppbv	98
15) Acetone	1.835	43	5412	0.382	ppbv #	87
16) 1,3-Butadiene	1.599	39	309	0.049	ppbv #	12
19) Isopropyl Alcohol	1.431	45	252943	31.606	ppbv #	36
20) Methylene Chloride	2.059	84	3916	0.166	ppbv	97
25) Ethyl Acetate	2.819	43	1696	0.056	ppbv #	75
26) Hexane	2.822	57	1739	0.130	ppbv #	52
34) 2-Butanone	2.560	43	2263	0.122	ppbv	100
39) 1,2-Dichloropropane	3.949	63	65427	7.103	ppbv #	24
52) Tetrachloroethene	8.215	164	77443	8.272	ppbv	98

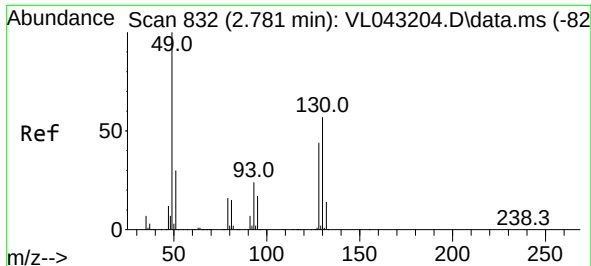
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL112025\
Data File : VL043269.D
Acq On : 20 Nov 2025 17:27
Operator : SY/MD
Sample : Q3655-03DL 10X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SG-3DL

Quant Time: Nov 21 00:41:21 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL11825AIR.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

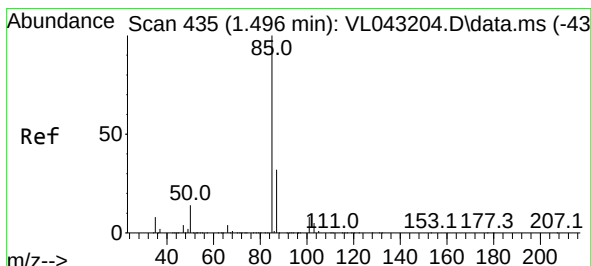
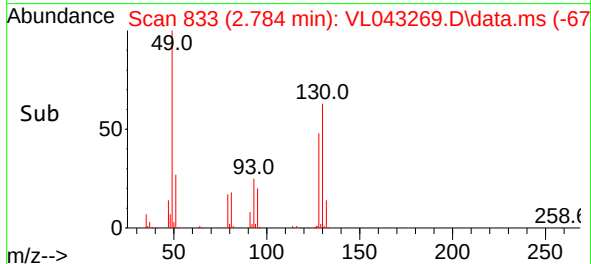
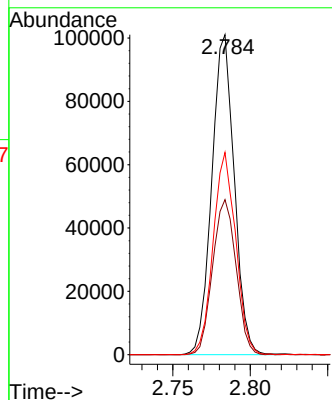
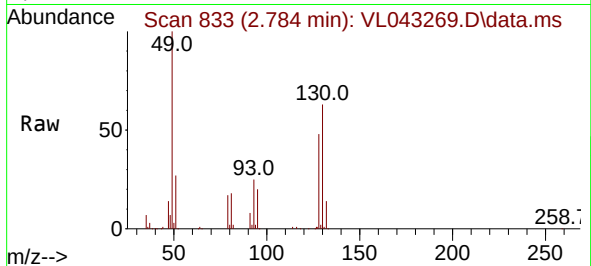




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 81
Delta R.T. 0.003 min
Lab File: VL043269.D
Acq: 20 Nov 2025 17:27

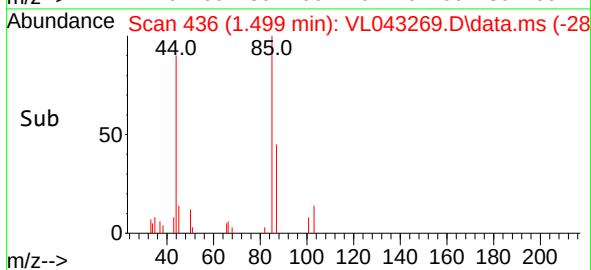
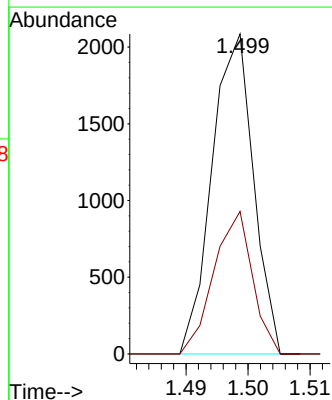
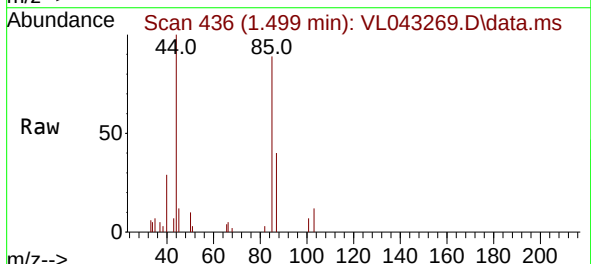
Instrument :
MSVOA_L
ClientSampleId :
SG-3DL

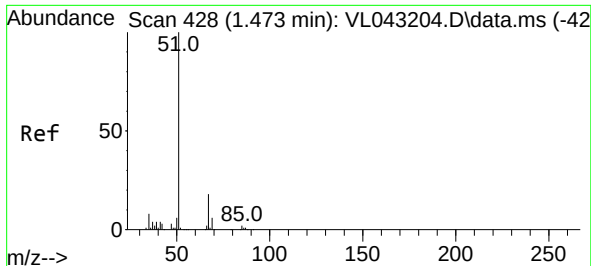
Tgt Ion: 49 Resp: 101941
Ion Ratio Lower Upper
49 100
128 50.5 23.0 69.0
130 63.4 29.9 89.7



#2
Dichlorodifluoromethane
Concen: 0.067 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.003 min
Lab File: VL043269.D
Acq: 20 Nov 2025 17:27

Tgt Ion: 85 Resp: 969
Ion Ratio Lower Upper
85 100
87 44.5 25.4 38.2#

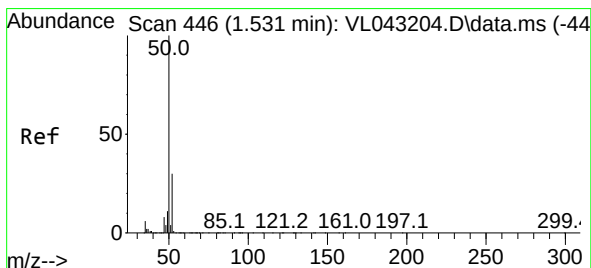
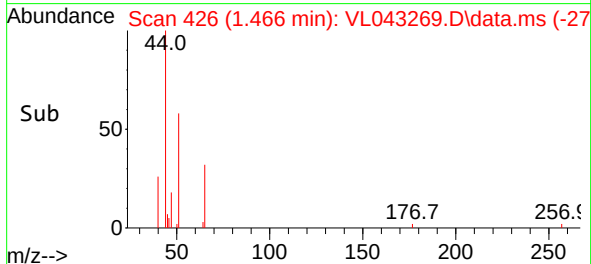
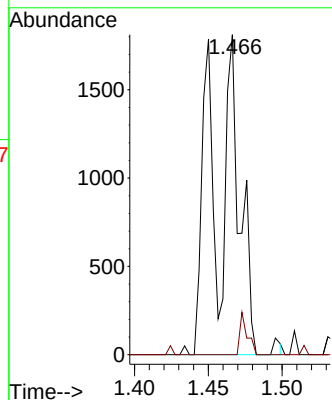
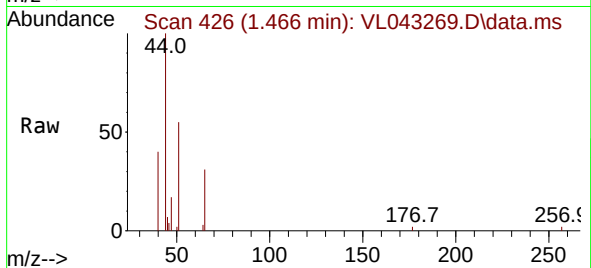




#3
Chlorodifluoromethane
Concen: 0.153 ppbv
RT: 1.466 min Scan# 41
Delta R.T. -0.007 min
Lab File: VL043269.D
Acq: 20 Nov 2025 17:27

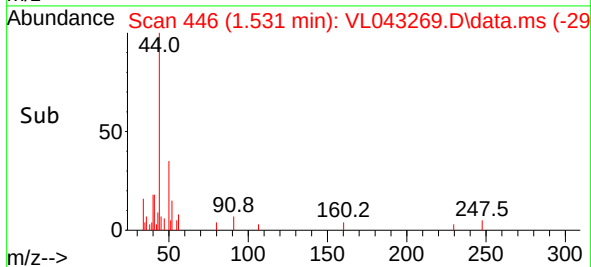
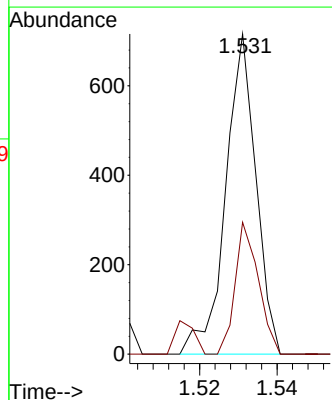
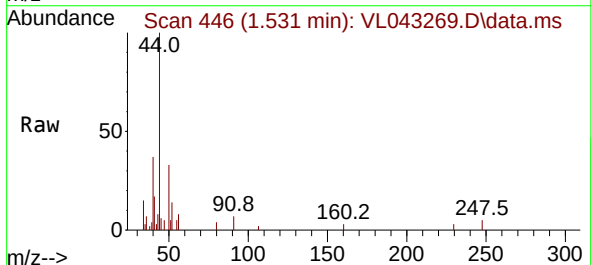
Instrument :
MSVOA_L
ClientSampleId :
SG-3DL

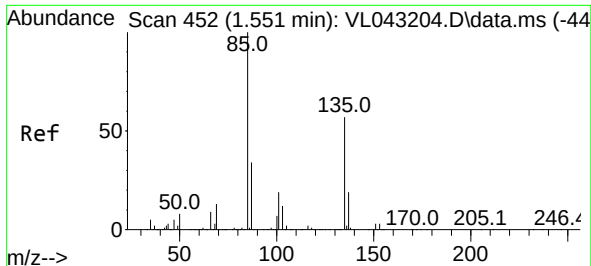
Tgt Ion: 51 Resp: 2160
Ion Ratio Lower Upper
51 100
67 3.8 14.9 22.3#



#4
Chloromethane
Concen: 0.072 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL043269.D
Acq: 20 Nov 2025 17:27

Tgt Ion: 50 Resp: 388
Ion Ratio Lower Upper
50 100
52 41.2 24.1 36.1#

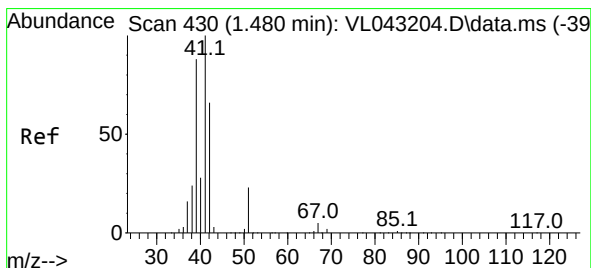
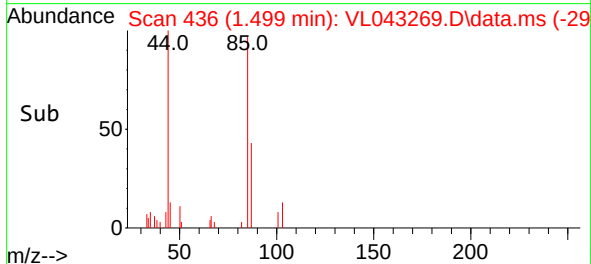
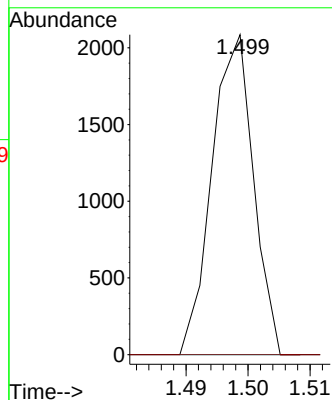
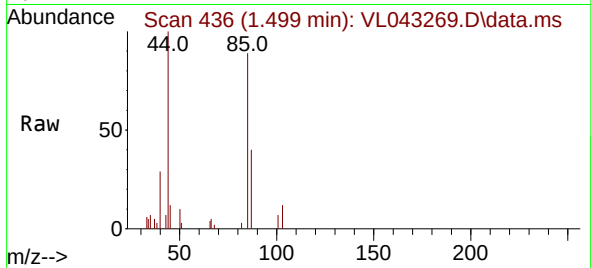




#8
 Dichlorotetrafluoroethane
 Concen: 0.081 ppbv
 RT: 1.499 min Scan# 41
 Delta R.T. -0.052 min
 Lab File: VL043269.D
 Acq: 20 Nov 2025 17:27

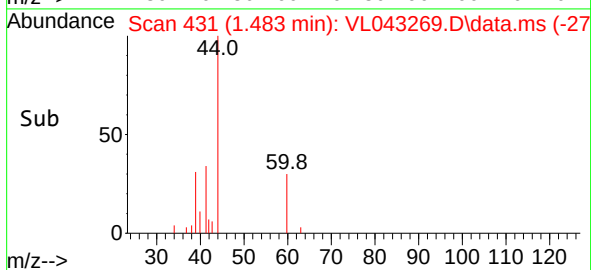
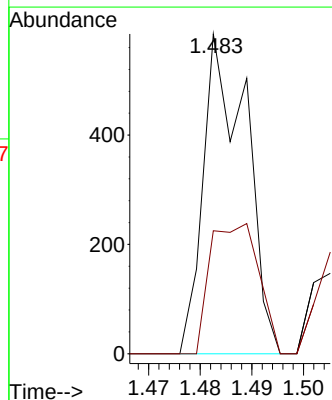
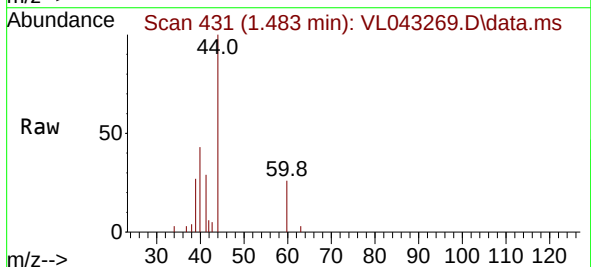
Instrument :
 MSVOA_L
 ClientSampleId :
 SG-3DL

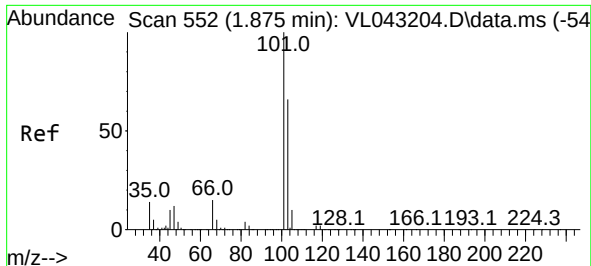
Tgt Ion: 85 Resp: 969
 Ion Ratio Lower Upper
 85 100
 135 0.0 52.6 79.0#



#9
 Propene
 Concen: 0.056 ppbv
 RT: 1.483 min Scan# 431
 Delta R.T. 0.003 min
 Lab File: VL043269.D
 Acq: 20 Nov 2025 17:27

Tgt Ion: 41 Resp: 336
 Ion Ratio Lower Upper
 41 100
 42 0.0 3.7 5.5#

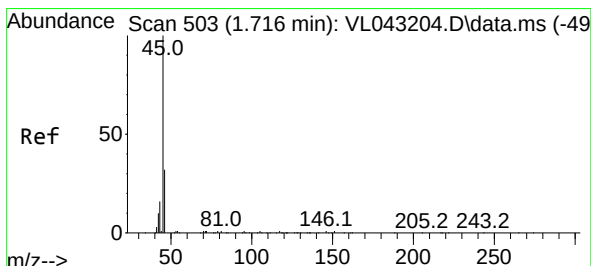
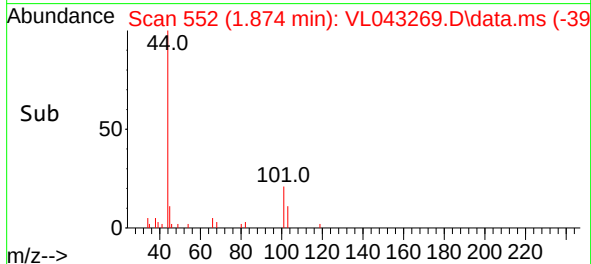
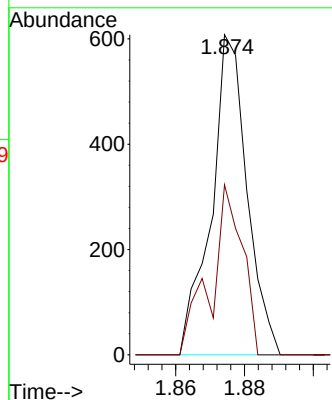
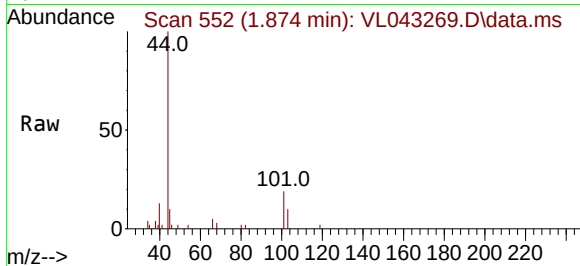




#11
 Trichlorofluoromethane
 Concen: 0.032 ppbv
 RT: 1.874 min Scan# 51
 Delta R.T. -0.000 min
 Lab File: VL043269.D
 Acq: 20 Nov 2025 17:27

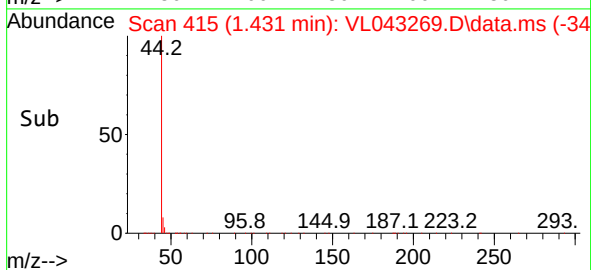
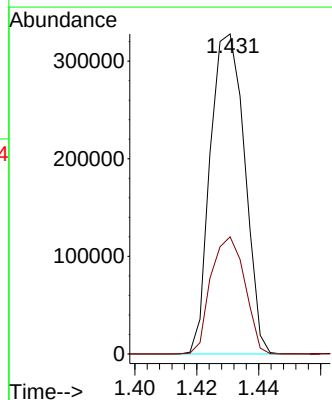
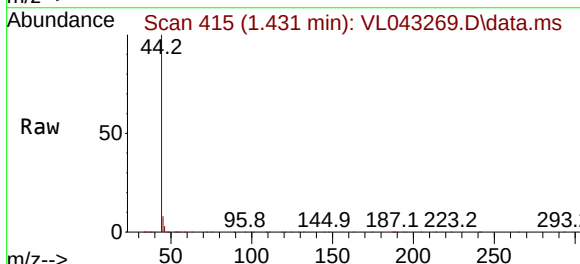
Instrument :
 MSVOA_L
 ClientSampleId :
 SG-3DL

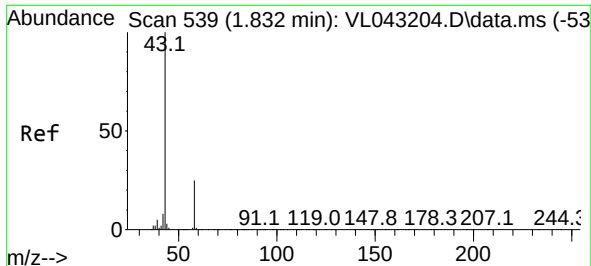
Tgt Ion:101 Resp: 439
 Ion Ratio Lower Upper
 101 100
 103 53.1 52.6 79.0



#13
 Ethanol
 Concen: 119.799 ppbv
 RT: 1.431 min Scan# 415
 Delta R.T. -0.285 min
 Lab File: VL043269.D
 Acq: 20 Nov 2025 17:27

Tgt Ion: 45 Resp: 252943
 Ion Ratio Lower Upper
 45 100
 46 36.2 15.0 59.8

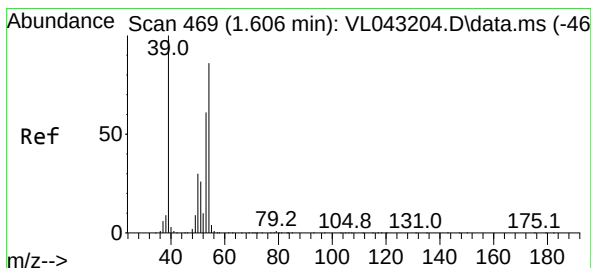
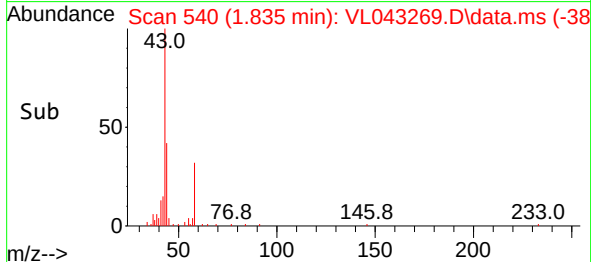
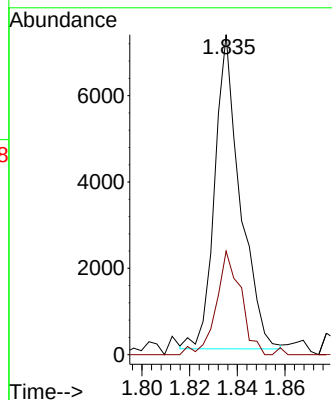
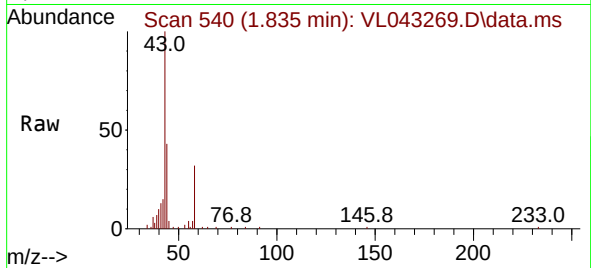




#15
Acetone
Concen: 0.382 ppbv
RT: 1.835 min Scan# 541
Delta R.T. 0.003 min
Lab File: VL043269.D
Acq: 20 Nov 2025 17:27

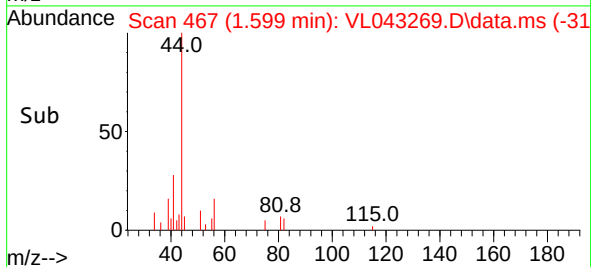
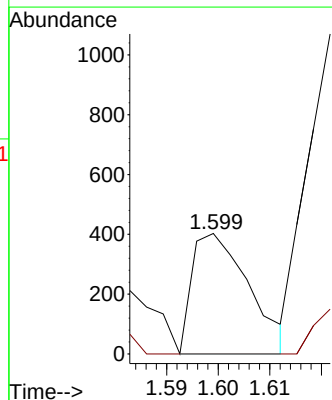
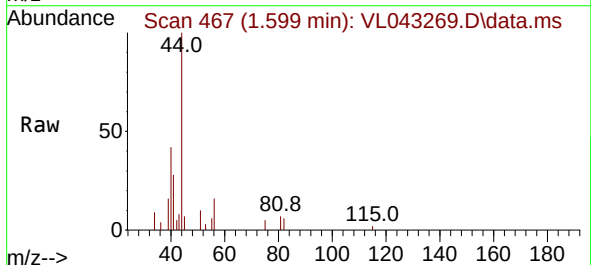
Instrument :
MSVOA_L
ClientSampleId :
SG-3DL

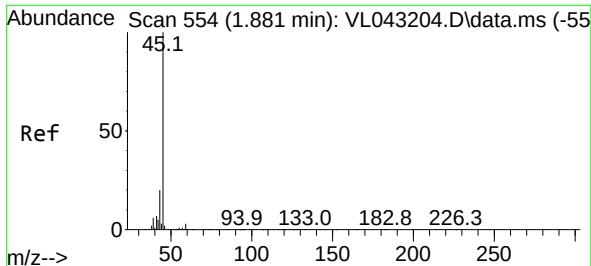
Tgt Ion: 43 Resp: 5412
Ion Ratio Lower Upper
43 100
58 32.3 20.7 31.1#



#16
1,3-Butadiene
Concen: 0.049 ppbv
RT: 1.599 min Scan# 467
Delta R.T. -0.007 min
Lab File: VL043269.D
Acq: 20 Nov 2025 17:27

Tgt Ion: 39 Resp: 309
Ion Ratio Lower Upper
39 100
54 0.0 59.4 89.2#

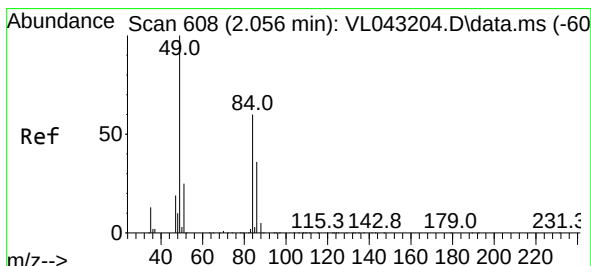
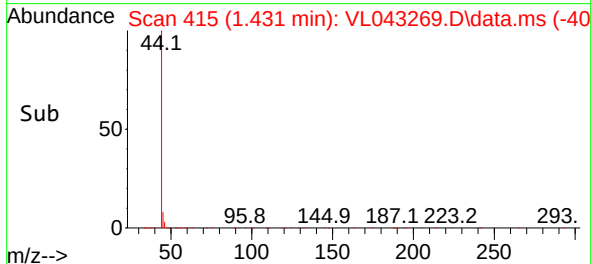
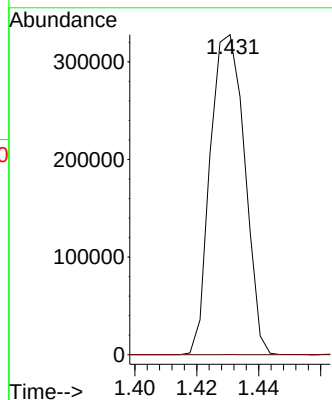
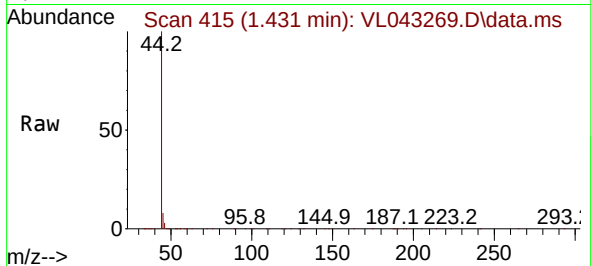




#19
Isopropyl Alcohol
Concen: 31.606 ppbv
RT: 1.431 min Scan# 415
Delta R.T. -0.450 min
Lab File: VL043269.D
Acq: 20 Nov 2025 17:27

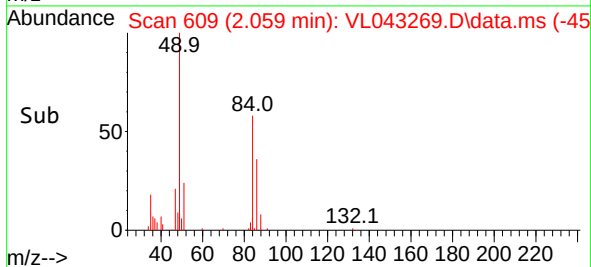
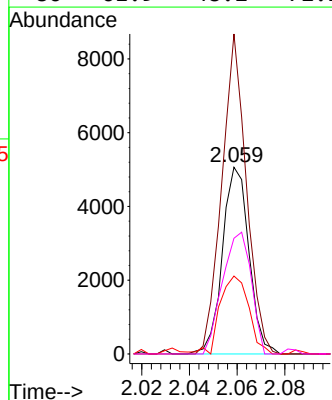
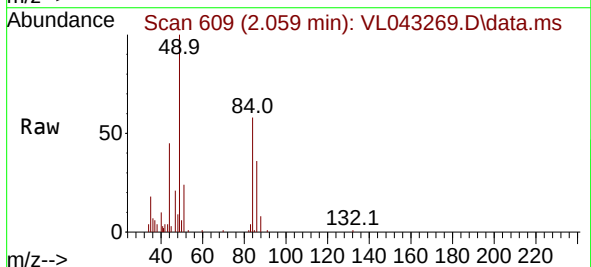
Instrument :
MSVOA_L
ClientSampleId :
SG-3DL

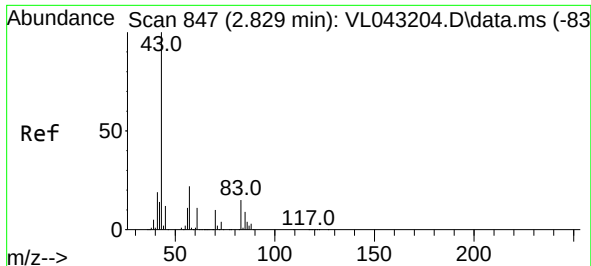
Tgt Ion: 45 Resp: 252943
Ion Ratio Lower Upper
45 100
58 0.2 31.3 46.9#



#20
Methylene Chloride
Concen: 0.166 ppbv
RT: 2.059 min Scan# 609
Delta R.T. 0.003 min
Lab File: VL043269.D
Acq: 20 Nov 2025 17:27

Tgt Ion: 84 Resp: 3916
Ion Ratio Lower Upper
84 100
49 171.4 132.9 199.3
51 41.7 34.8 52.2
86 61.9 48.2 72.2





#25

Ethyl Acetate

Concen: 0.056 ppbv

RT: 2.819 min Scan# 84

Delta R.T. -0.010 min

Lab File: VL043269.D

Acq: 20 Nov 2025 17:27

Instrument :

MSVOA_L

ClientSampleId :

SG-3DL

Tgt Ion: 43 Resp: 1696

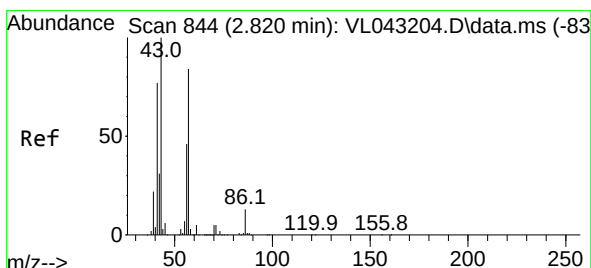
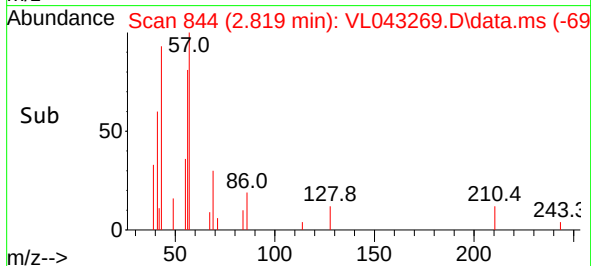
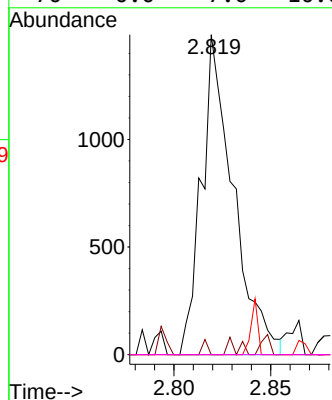
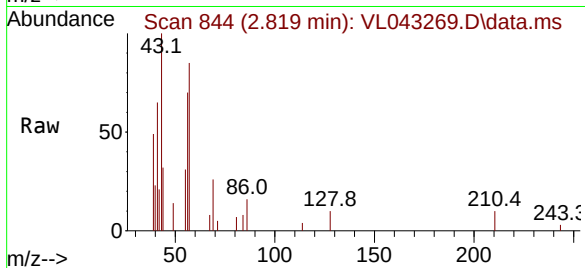
Ion Ratio Lower Upper

43 100

45 0.0 8.1 12.1#

61 0.0 7.0 10.4#

70 0.0 7.0 10.6#



#26

Hexane

Concen: 0.130 ppbv

RT: 2.822 min Scan# 845

Delta R.T. 0.003 min

Lab File: VL043269.D

Acq: 20 Nov 2025 17:27

Tgt Ion: 57 Resp: 1739

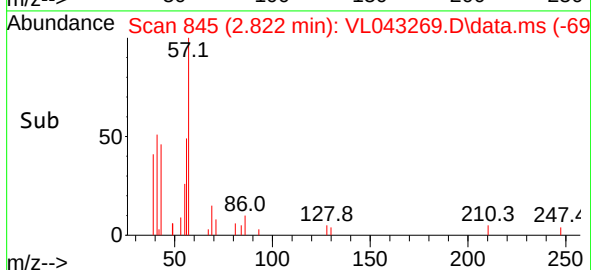
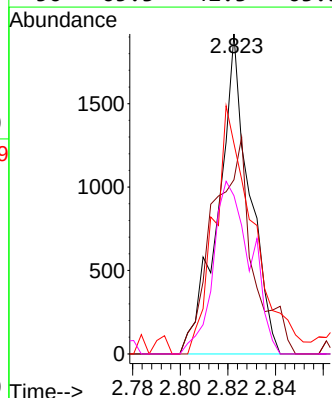
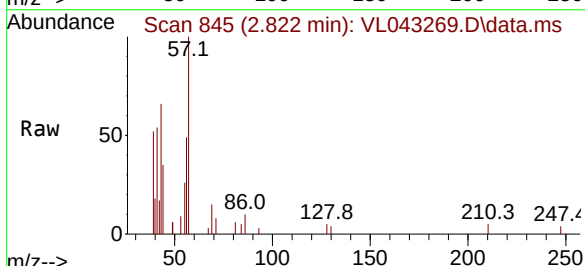
Ion Ratio Lower Upper

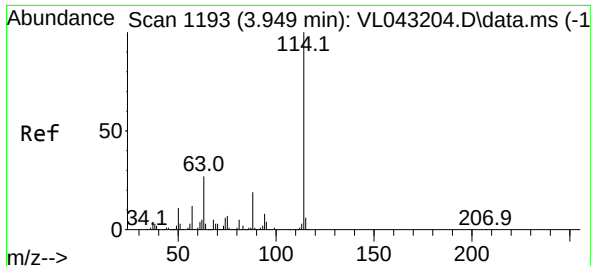
57 100

41 87.6 74.6 111.8

43 106.2 179.0 268.4#

56 65.3 42.3 63.5#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.952 min Scan# 1194

Delta R.T. 0.003 min

Lab File: VL043269.D

Acq: 20 Nov 2025 17:27

Instrument :

MSVOA_L

ClientSampleId :

SG-3DL

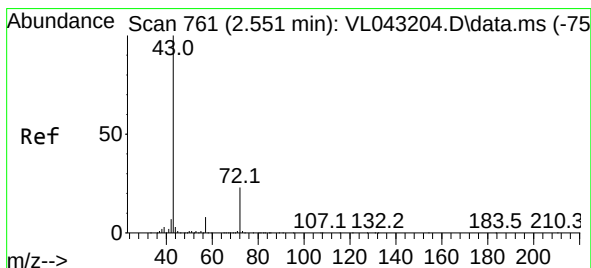
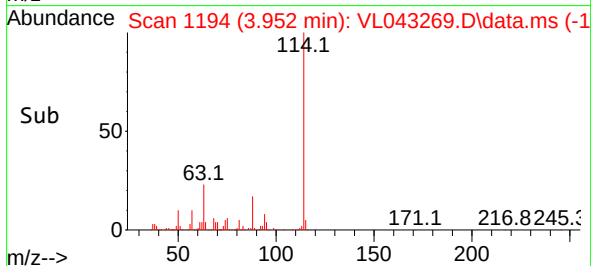
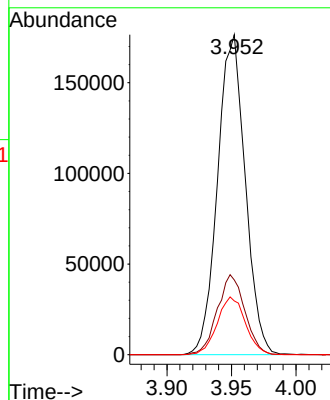
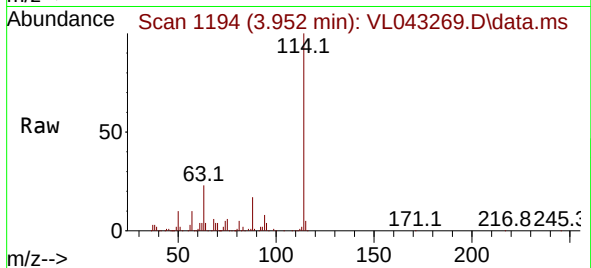
Tgt Ion:114 Resp: 262812

Ion Ratio Lower Upper

114 100

63 24.9 21.0 31.6

88 18.4 14.9 22.3



#34

2-Butanone

Concen: 0.122 ppbv

RT: 2.560 min Scan# 764

Delta R.T. 0.009 min

Lab File: VL043269.D

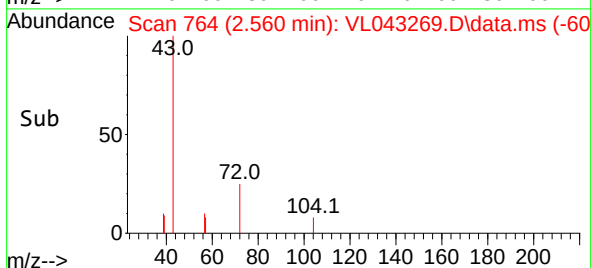
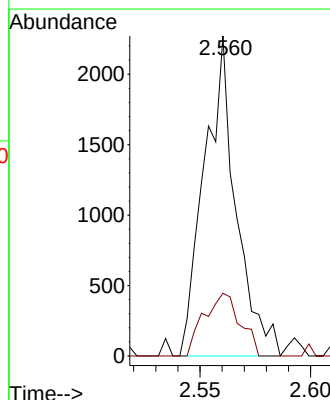
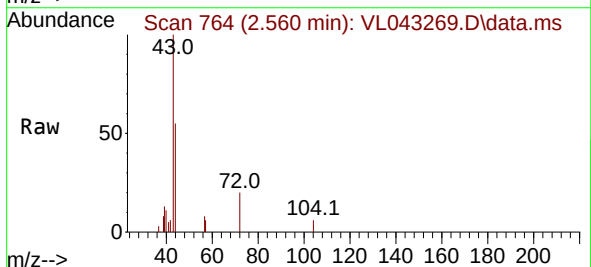
Acq: 20 Nov 2025 17:27

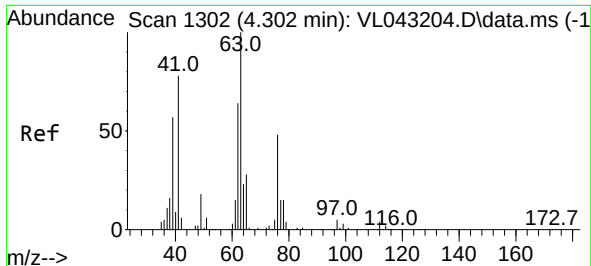
Tgt Ion: 43 Resp: 2263

Ion Ratio Lower Upper

43 100

72 22.4 18.1 27.1





#39

1,2-Dichloropropane

Concen: 7.103 ppbv

RT: 3.949 min Scan# 1193

Delta R.T. -0.353 min

Lab File: VL043269.D

Acq: 20 Nov 2025 17:27

Instrument :

MSVOA_L

ClientSampleId :

SG-3DL

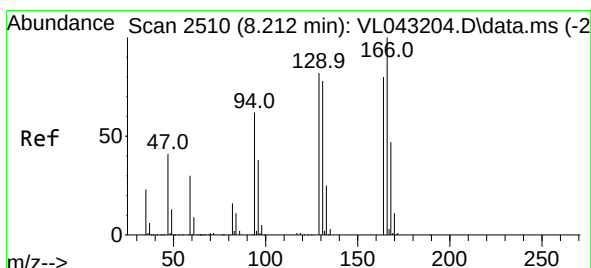
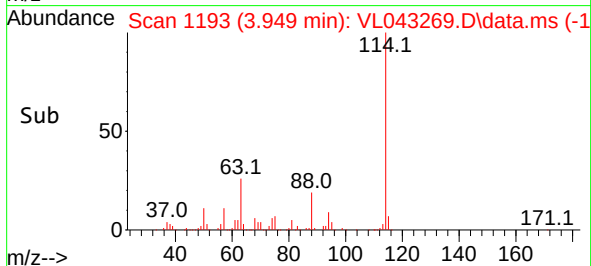
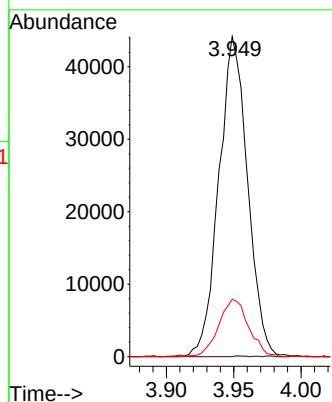
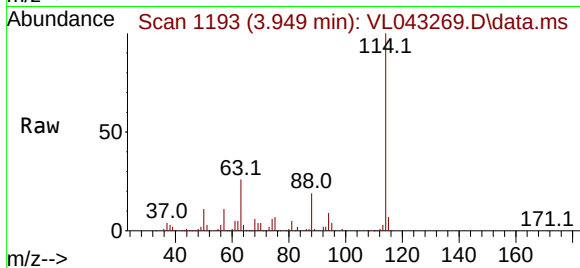
Tgt Ion: 63 Resp: 65427

Ion Ratio Lower Upper

63 100

41 0.0 62.6 93.8#

62 17.9 51.0 76.6#



#52

Tetrachloroethene

Concen: 8.272 ppbv

RT: 8.215 min Scan# 2511

Delta R.T. 0.003 min

Lab File: VL043269.D

Acq: 20 Nov 2025 17:27

Tgt Ion:164 Resp: 77443

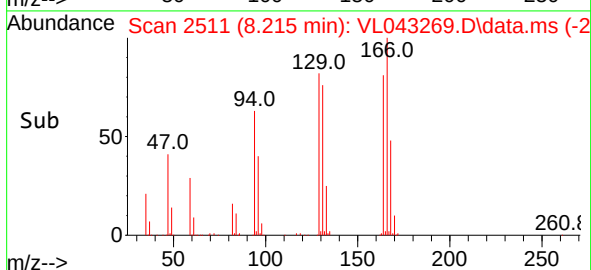
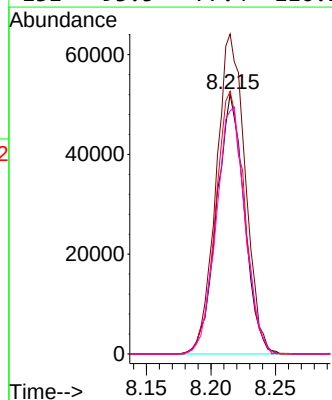
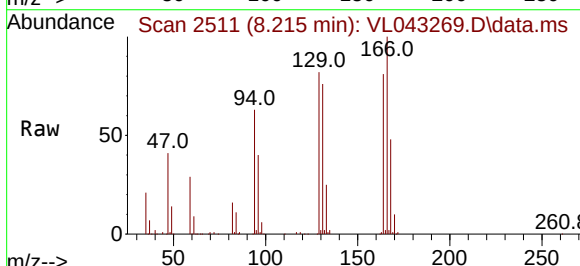
Ion Ratio Lower Upper

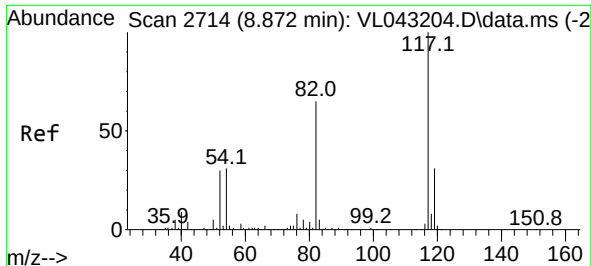
164 100

166 123.1 99.4 149.2

129 101.1 81.8 122.8

131 93.5 77.4 116.2

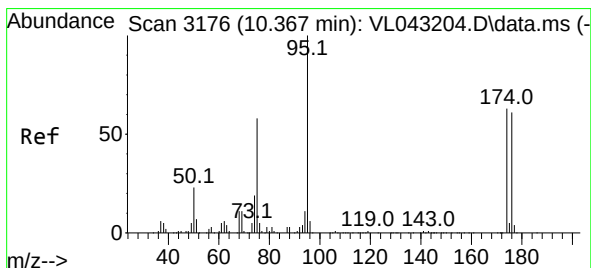
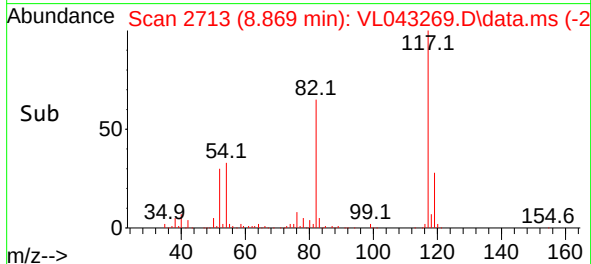
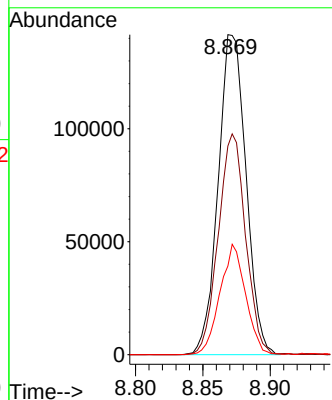
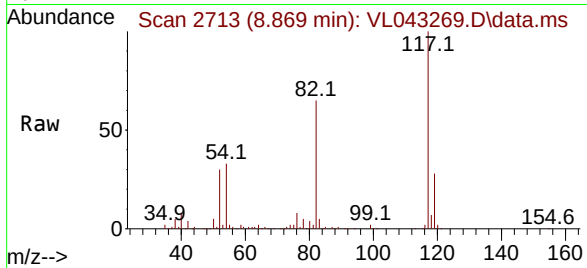




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.869 min Scan# 21
Delta R.T. -0.004 min
Lab File: VL043269.D
Acq: 20 Nov 2025 17:27

Instrument :
MSVOA_L
ClientSampleId :
SG-3DL

Tgt Ion:117 Resp: 203972
Ion Ratio Lower Upper
117 100
82 67.6 56.1 84.1
119 31.8 25.0 37.6



#68
1-Bromo-4-Fluorobenzene
Concen: 9.619 ppbv
RT: 10.367 min Scan# 3176
Delta R.T. -0.000 min
Lab File: VL043269.D
Acq: 20 Nov 2025 17:27

Tgt Ion: 95 Resp: 143816
Ion Ratio Lower Upper
95 100
174 66.1 50.2 75.2
175 4.9 4.1 6.1

