

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL012025\
 Data File : VL041928.D
 Acq On : 20 Jan 2025 19:51
 Operator : SY/MD
 Sample : Q1138-01
 Misc : 400mL/MSVOA_L
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Jan 21 03:07:42 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Jan 14 23:15:42 2025
 Response via : Initial Calibration

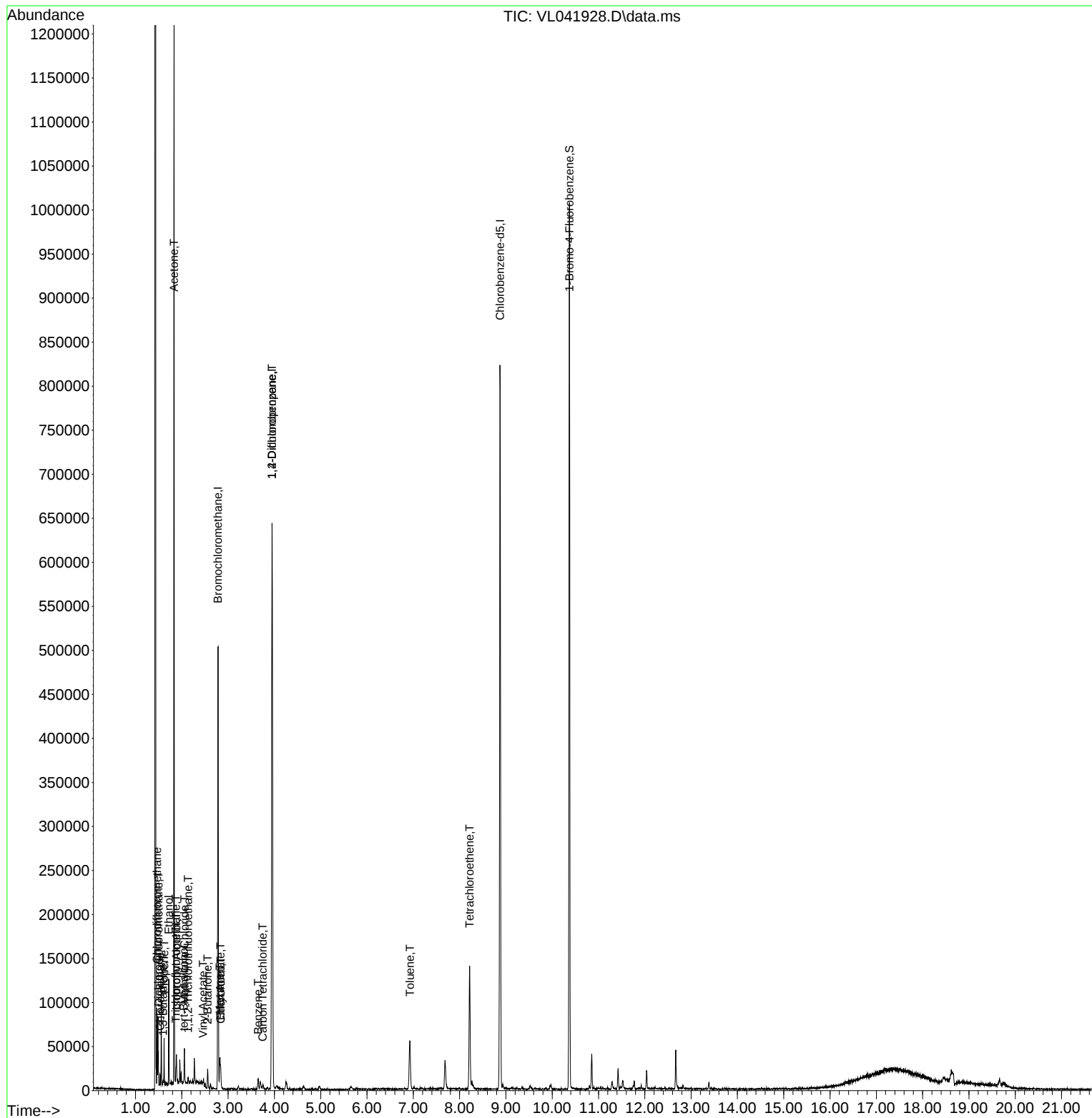
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

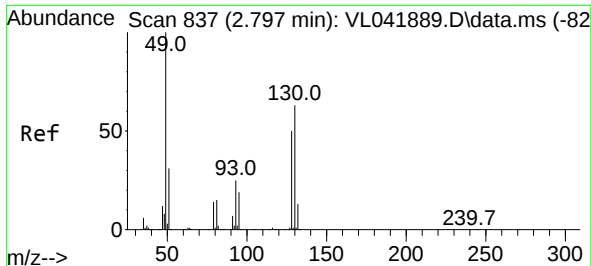
Internal Standards						
1) Bromochloromethane	2.781	49	134088	10.000	ppbv	-0.02
33) 1,4-Difluorobenzene	3.949	114	374281	10.000	ppbv	-0.03
55) Chlorobenzene-d5	8.872	117	329727	10.000	ppbv	-0.02
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.371	95	254361	9.794	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.900%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.496	85	8708	0.477	ppbv	94
3) Chlorodifluoromethane	1.463	51	24069	1.258	ppbv #	68
4) Chloromethane	1.531	50	3358	0.489	ppbv	92
9) Propene	1.619	41	4920	0.624	ppbv	91
11) Trichlorofluoromethane	1.874	101	4270	0.225	ppbv	93
12) 1,1,2-Trichlorotrifluo...	2.133	101	998	0.067	ppbv #	76
13) Ethanol	1.719	45	38927	67.425	ppbv	89
15) Acetone	1.832	43	504884	31.349	ppbv	100
16) 1,3-Butadiene	1.596	39	649	0.090	ppbv #	11
17) tert-Butyl alcohol	2.046	59	762	0.038	ppbv #	73
19) Isopropyl Alcohol	1.884	45	13931	1.459	ppbv #	1
20) Methylene Chloride	2.059	84	5111	0.803	ppbv	93
23) Vinyl Acetate	2.460	43	1430	0.179	ppbv #	78
25) Ethyl Acetate	2.836	43	19102	0.440	ppbv #	97
26) Hexane	2.819	57	6758	0.393	ppbv #	75
29) Chloroform	2.842	83	1297	0.048	ppbv	95
34) 2-Butanone	2.557	43	14051	0.590	ppbv	99
35) Carbon Tetrachloride	3.748	117	953	0.041	ppbv #	24
36) Benzene	3.648	78	7177	0.209	ppbv	93
39) 1,2-Dichloropropane	3.949	63	92751	7.702	ppbv #	21
52) Tetrachloroethene	8.218	164	23885	2.007	ppbv	96
53) Toluene	6.927	91	40543	1.084	ppbv	99

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

Instrument :
MSVOA_L
ClientSampleId :

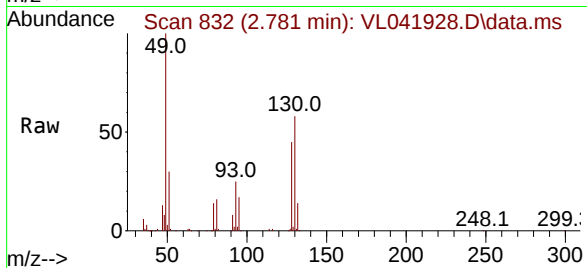
Quant Time: Jan 21 03:07:42 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Tue Jan 14 23:15:42 2025
Response via : Initial Calibration



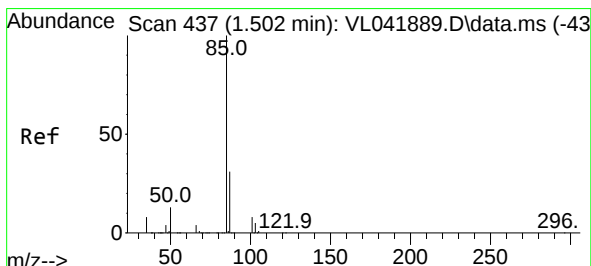
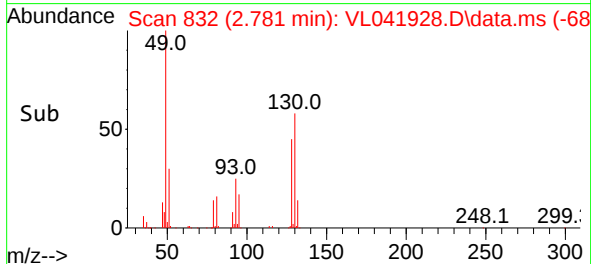
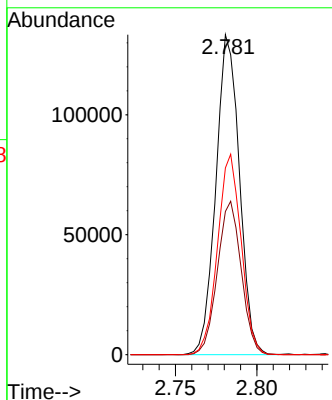


#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 2.781 min Scan# 81
 Delta R.T. -0.016 min
 Lab File: VL041928.D
 Acq: 20 Jan 2025 19:51

Instrument :
 MSVOA_L
 ClientSampleId :

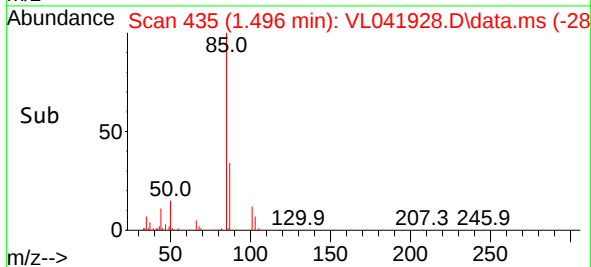
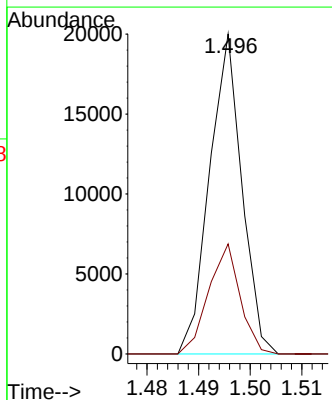
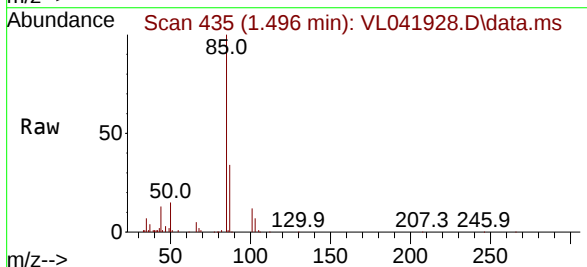


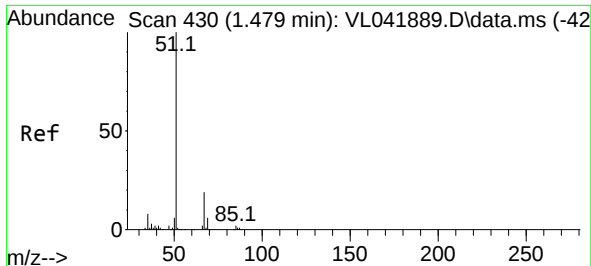
Tgt Ion: 49 Resp: 134088
 Ion Ratio Lower Upper
 49 100
 128 48.5 24.3 73.0
 130 62.6 31.1 93.2



#2
 Dichlorodifluoromethane
 Concen: 0.477 ppbv
 RT: 1.496 min Scan# 435
 Delta R.T. -0.006 min
 Lab File: VL041928.D
 Acq: 20 Jan 2025 19:51

Tgt Ion: 85 Resp: 8708
 Ion Ratio Lower Upper
 85 100
 87 34.4 24.9 37.3

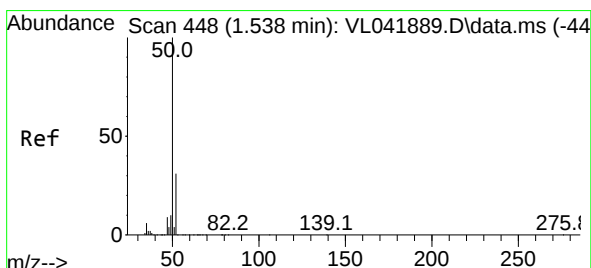
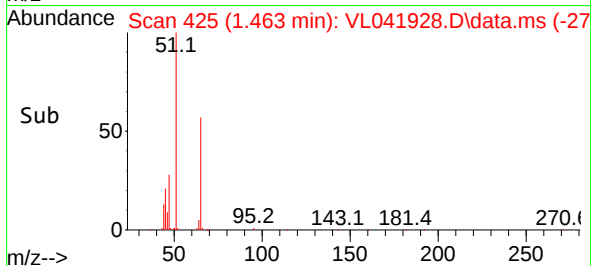
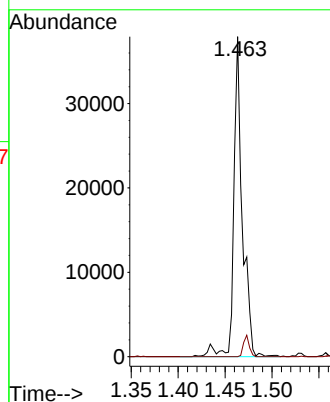
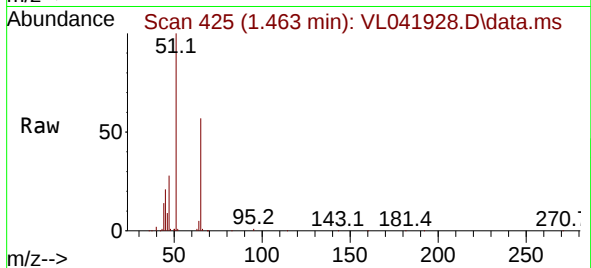




#3
Chlorodifluoromethane
Concen: 1.258 ppbv
RT: 1.463 min Scan# 41
Delta R.T. -0.016 min
Lab File: VL041928.D
Acq: 20 Jan 2025 19:51

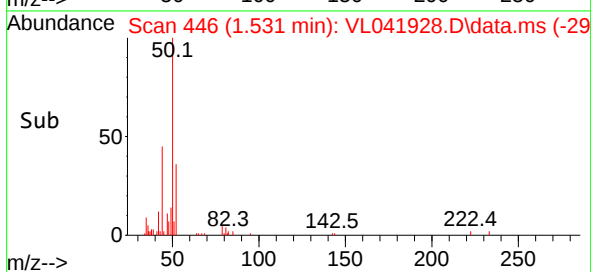
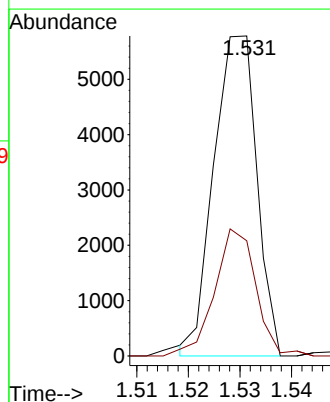
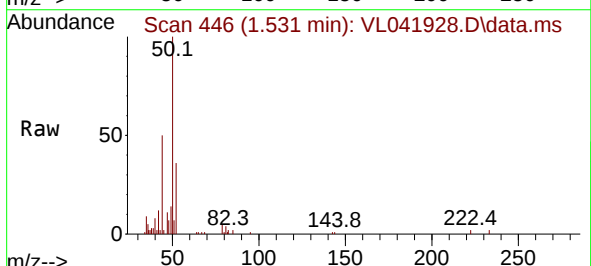
Instrument :
MSVOA_L
ClientSampleId :

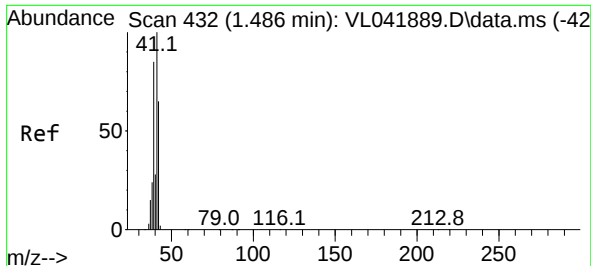
Tgt Ion: 51 Resp: 24069
Ion Ratio Lower Upper
51 100
67 4.6 15.0 22.4#



#4
Chloromethane
Concen: 0.489 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.006 min
Lab File: VL041928.D
Acq: 20 Jan 2025 19:51

Tgt Ion: 50 Resp: 3358
Ion Ratio Lower Upper
50 100
52 35.0 24.6 36.8





#9

Propene

Concen: 0.624 ppbv

RT: 1.619 min Scan# 41

Delta R.T. 0.133 min

Lab File: VL041928.D

Acq: 20 Jan 2025 19:51

Instrument :

MSVOA_L

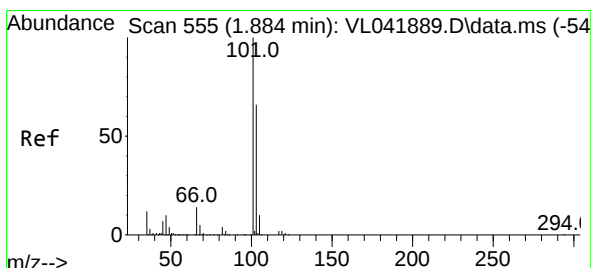
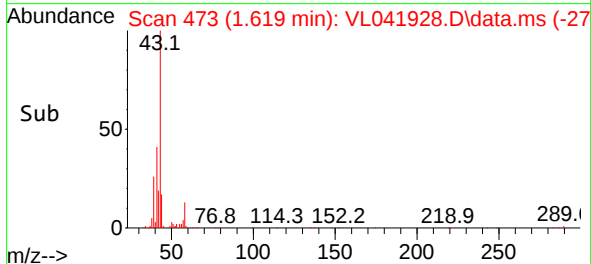
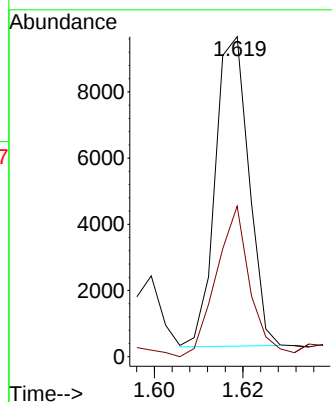
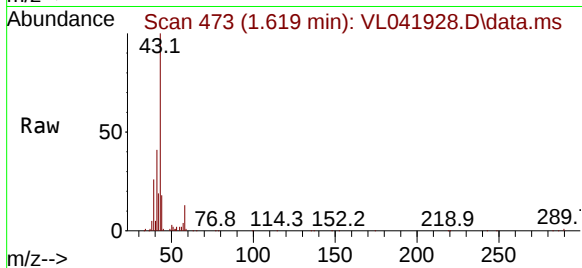
ClientSampleId :

Tgt Ion: 41 Resp: 4920

Ion Ratio Lower Upper

41 100

42 57.9 52.0 78.0



#11

Trichlorofluoromethane

Concen: 0.225 ppbv

RT: 1.874 min Scan# 552

Delta R.T. -0.010 min

Lab File: VL041928.D

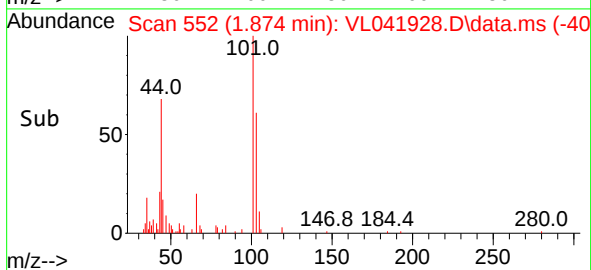
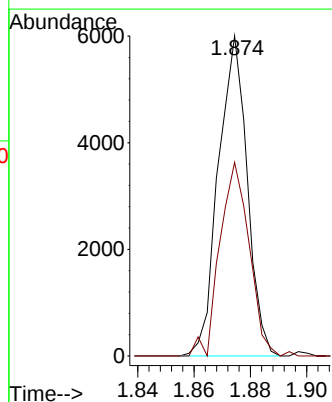
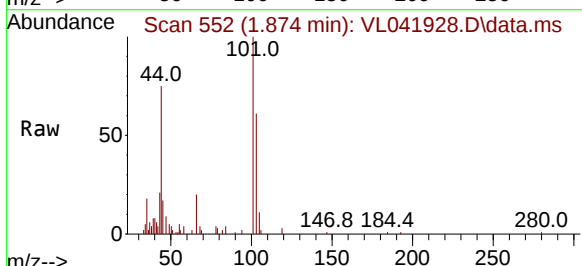
Acq: 20 Jan 2025 19:51

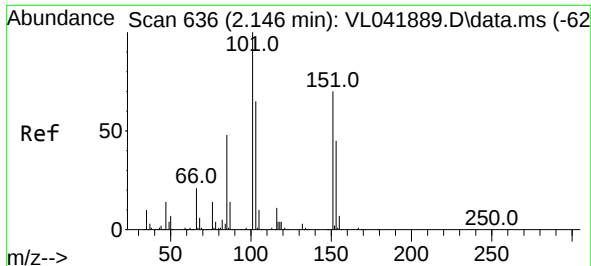
Tgt Ion: 101 Resp: 4270

Ion Ratio Lower Upper

101 100

103 60.5 53.1 79.7

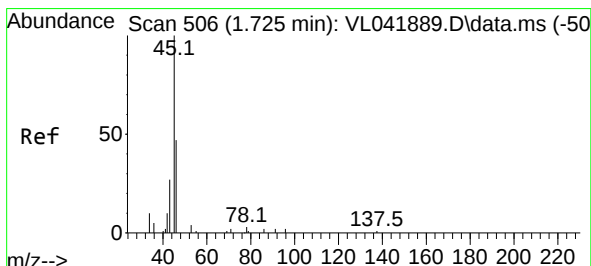
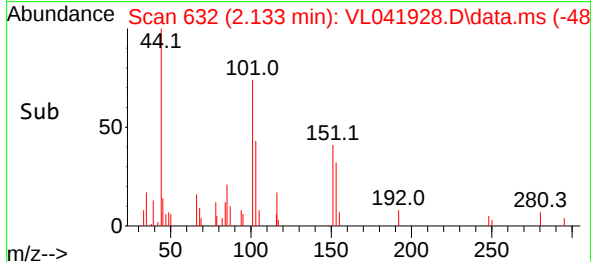
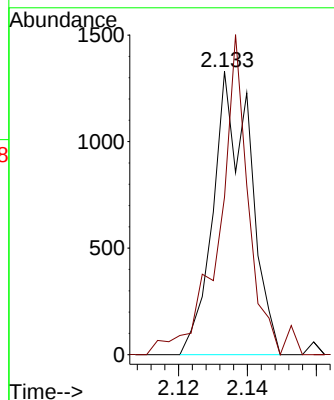
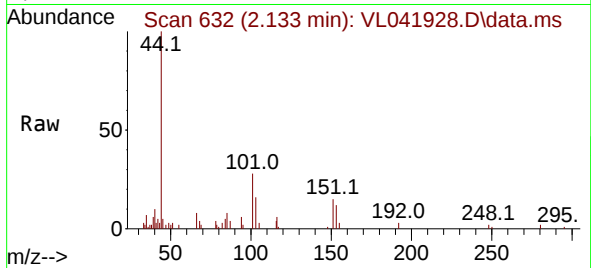




#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.067 ppbv
 RT: 2.133 min Scan# 61
 Delta R.T. -0.013 min
 Lab File: VL041928.D
 Acq: 20 Jan 2025 19:51

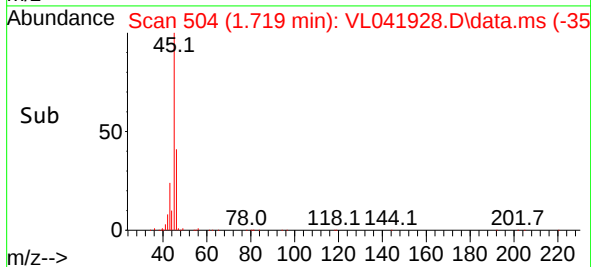
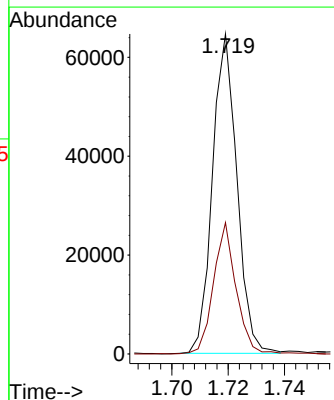
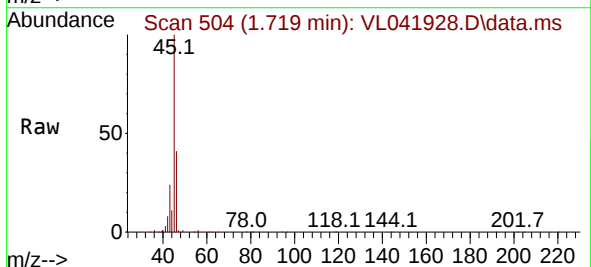
Instrument :
 MSVOA_L
 ClientSampleId :

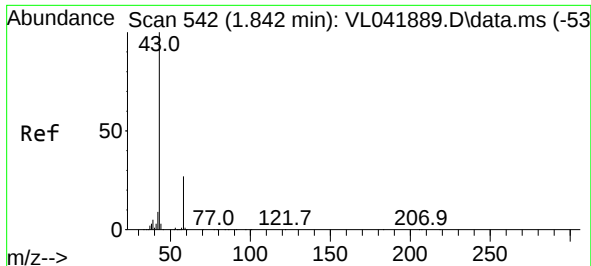
Tgt Ion:101 Resp: 998
 Ion Ratio Lower Upper
 101 100
 151 90.1 56.1 84.1#



#13
 Ethanol
 Concen: 67.425 ppbv
 RT: 1.719 min Scan# 504
 Delta R.T. -0.006 min
 Lab File: VL041928.D
 Acq: 20 Jan 2025 19:51

Tgt Ion: 45 Resp: 38927
 Ion Ratio Lower Upper
 45 100
 46 38.3 18.1 72.5

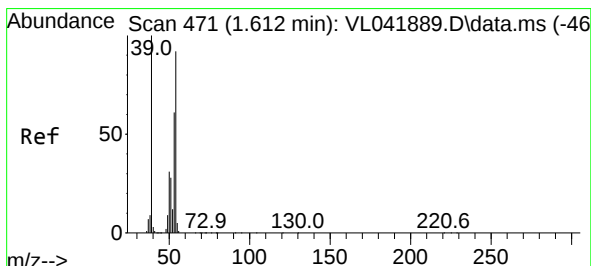
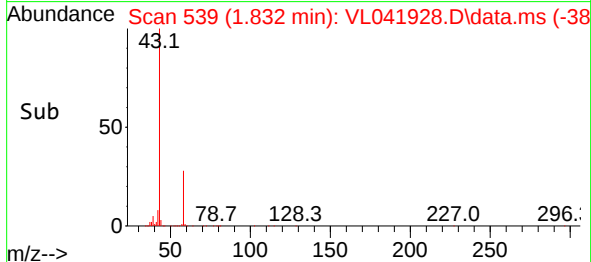
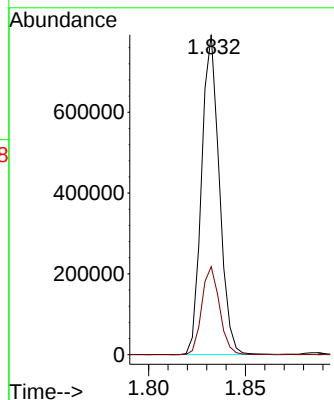
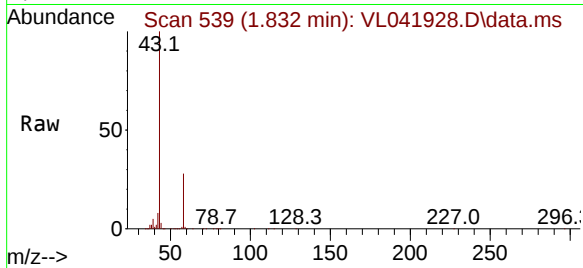




#15
Acetone
Concen: 31.349 ppbv
RT: 1.832 min Scan# 51
Delta R.T. -0.010 min
Lab File: VL041928.D
Acq: 20 Jan 2025 19:51

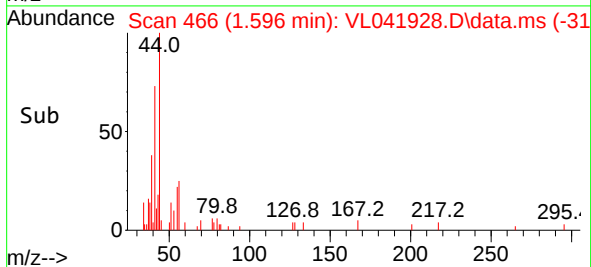
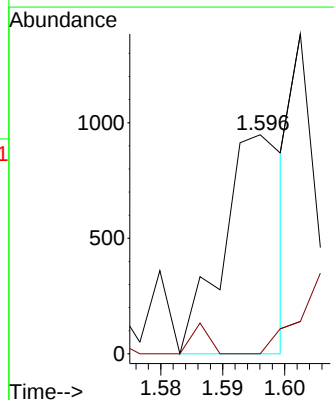
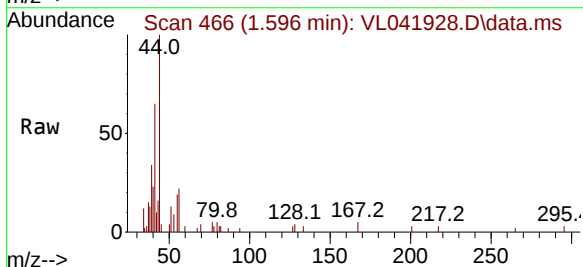
Instrument :
MSVOA_L
ClientSampleId :

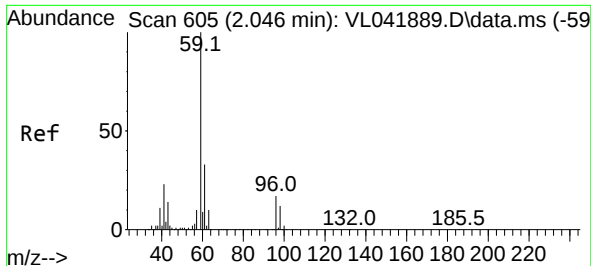
Tgt Ion: 43 Resp: 504884
Ion Ratio Lower Upper
43 100
58 27.6 21.9 32.9



#16
1,3-Butadiene
Concen: 0.090 ppbv
RT: 1.596 min Scan# 466
Delta R.T. -0.016 min
Lab File: VL041928.D
Acq: 20 Jan 2025 19:51

Tgt Ion: 39 Resp: 649
Ion Ratio Lower Upper
39 100
54 0.0 61.6 92.4#

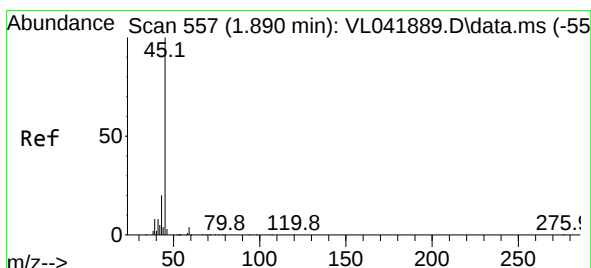
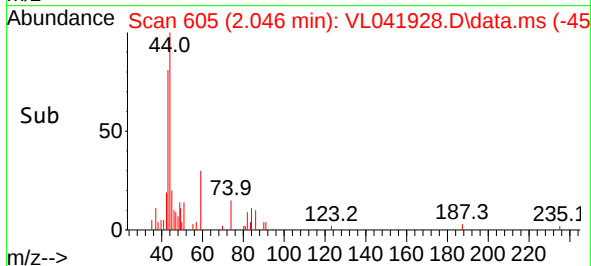
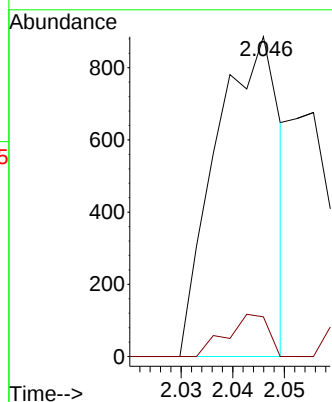
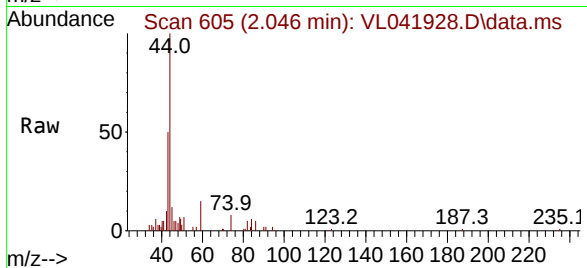




#17
tert-Butyl alcohol
Concen: 0.038 ppbv
RT: 2.046 min Scan# 605
Delta R.T. 0.000 min
Lab File: VL041928.D
Acq: 20 Jan 2025 19:51

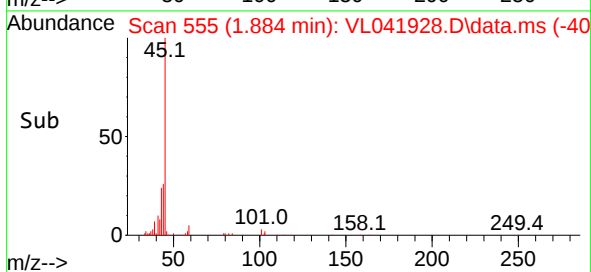
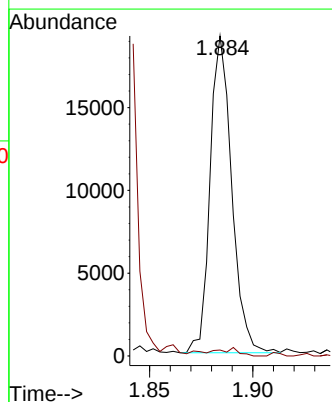
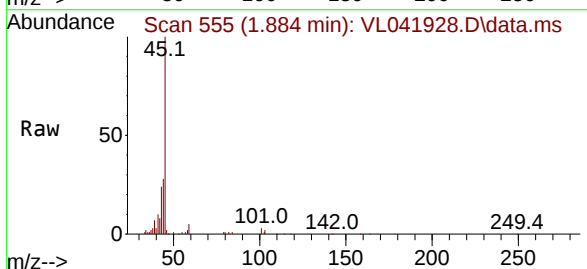
Instrument :
MSVOA_L
ClientSampleId :

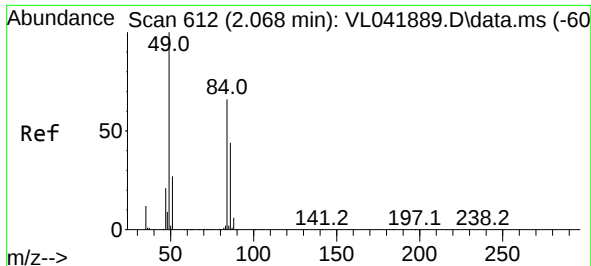
Tgt Ion: 59 Resp: 762
Ion Ratio Lower Upper
59 100
57 0.0 7.8 11.8#



#19
Isopropyl Alcohol
Concen: 1.459 ppbv
RT: 1.884 min Scan# 555
Delta R.T. -0.006 min
Lab File: VL041928.D
Acq: 20 Jan 2025 19:51

Tgt Ion: 45 Resp: 13931
Ion Ratio Lower Upper
45 100
58 1000.9 35.0 52.6#



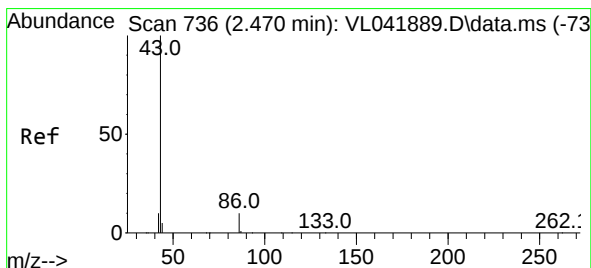
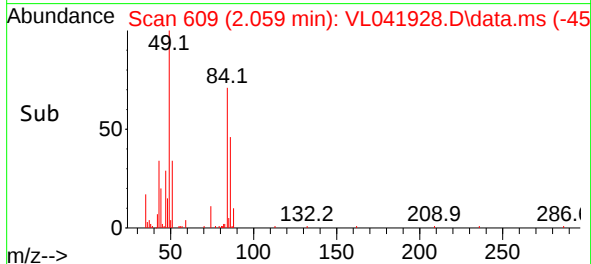
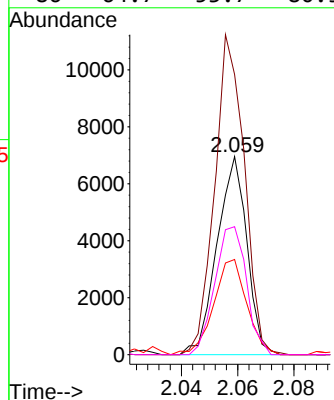
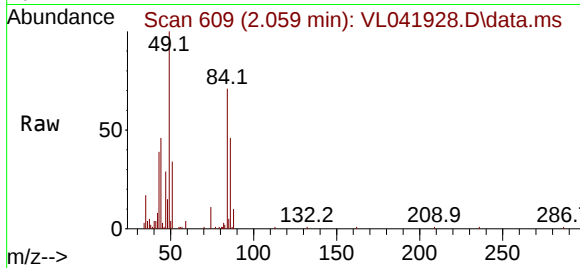


#20
Methylene Chloride
Concen: 0.803 ppbv
RT: 2.059 min Scan# 612
Delta R.T. -0.010 min
Lab File: VL041928.D
Acq: 20 Jan 2025 19:51

Instrument :
MSVOA_L
ClientSampleId :

Tgt Ion: 84 Resp: 5111

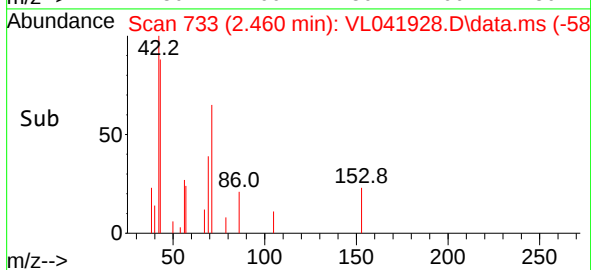
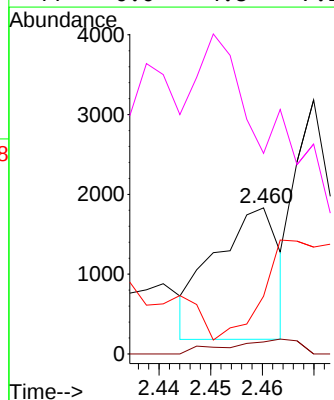
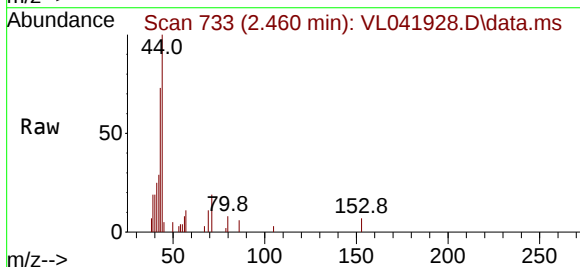
Ion	Ratio	Lower	Upper
84	100		
49	141.5	123.1	184.7
51	48.1	35.8	53.8
86	64.7	53.7	80.5

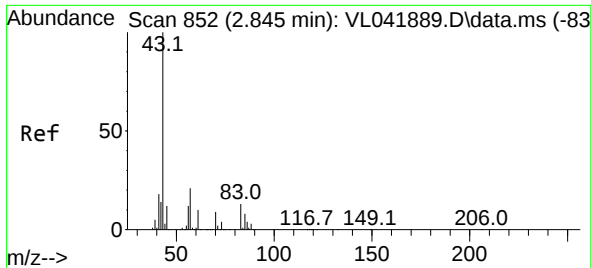


#23
Vinyl Acetate
Concen: 0.179 ppbv
RT: 2.460 min Scan# 733
Delta R.T. -0.010 min
Lab File: VL041928.D
Acq: 20 Jan 2025 19:51

Tgt Ion: 43 Resp: 1430

Ion	Ratio	Lower	Upper
43	100		
86	13.6	6.2	9.4#
42	0.0	8.5	12.7#
44	0.0	4.8	7.2#

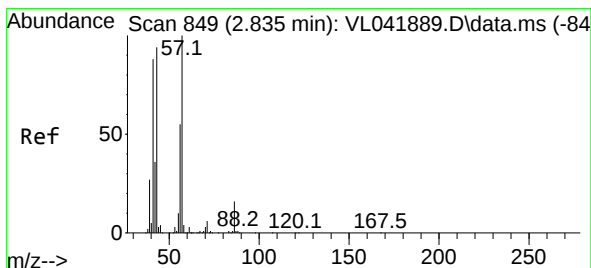
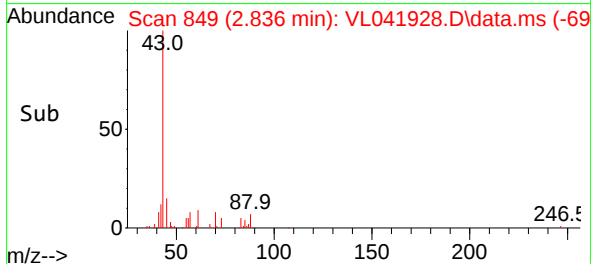
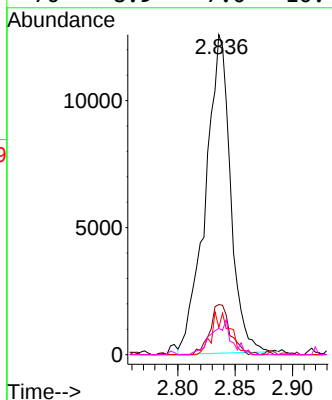
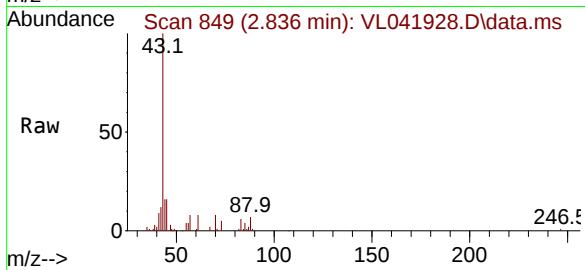




#25
Ethyl Acetate
Concen: 0.440 ppbv
RT: 2.836 min Scan# 844
Delta R.T. -0.010 min
Lab File: VL041928.D
Acq: 20 Jan 2025 19:51

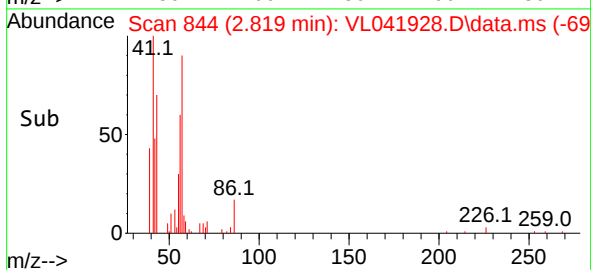
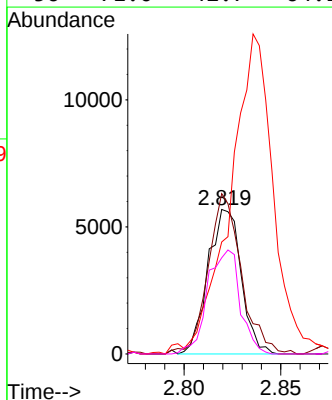
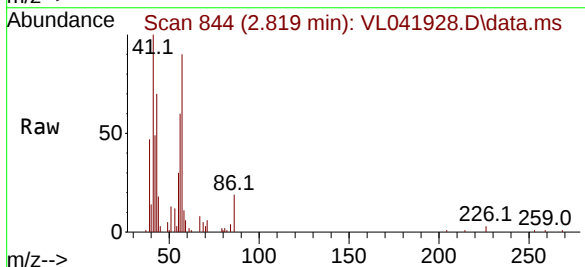
Instrument :
MSVOA_L
ClientSampleId :

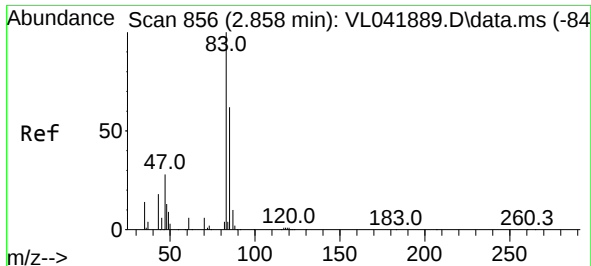
Tgt Ion: 43	Resp: 19102
Ion Ratio	Lower Upper
43 100	
45 12.9	8.2 12.2#
61 9.8	7.4 11.0
70 8.9	7.0 10.4



#26
Hexane
Concen: 0.393 ppbv
RT: 2.819 min Scan# 844
Delta R.T. -0.016 min
Lab File: VL041928.D
Acq: 20 Jan 2025 19:51

Tgt Ion: 57	Resp: 6758
Ion Ratio	Lower Upper
57 100	
41 112.0	73.8 110.8#
43 292.2	197.3 295.9
56 71.0	42.7 64.1#





#29

Chloroform

Concen: 0.048 ppbv

RT: 2.842 min Scan# 81

Delta R.T. -0.016 min

Lab File: VL041928.D

Acq: 20 Jan 2025 19:51

Instrument :

MSVOA_L

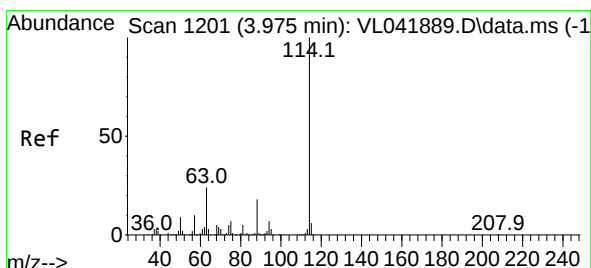
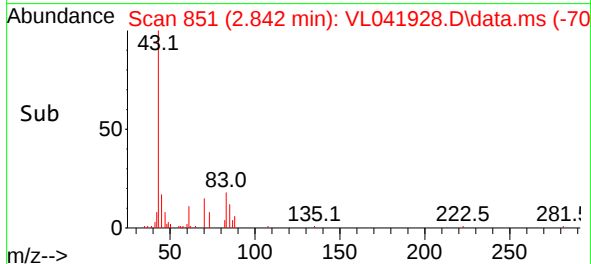
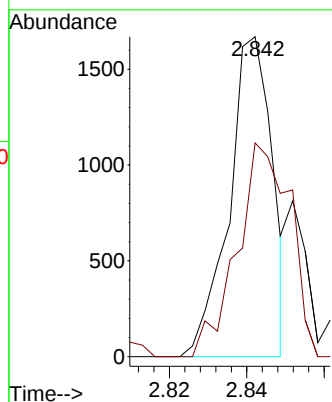
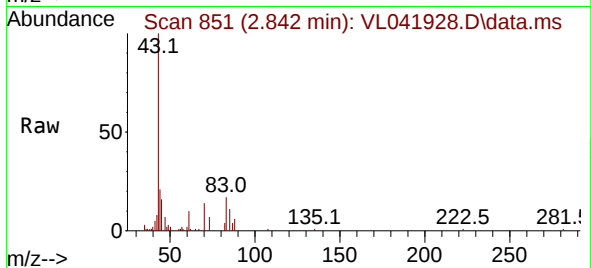
ClientSampleId :

Tgt Ion: 83 Resp: 1297

Ion Ratio Lower Upper

83 100

85 66.8 50.1 75.1



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.949 min Scan# 1193

Delta R.T. -0.026 min

Lab File: VL041928.D

Acq: 20 Jan 2025 19:51

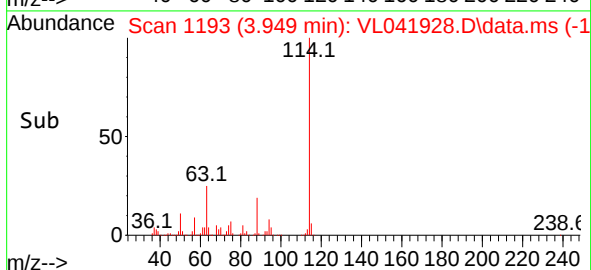
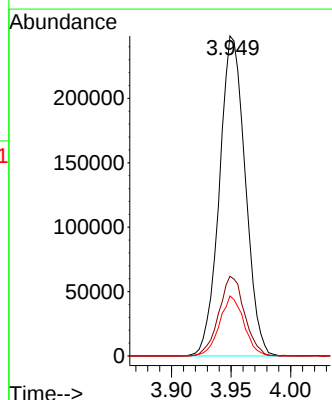
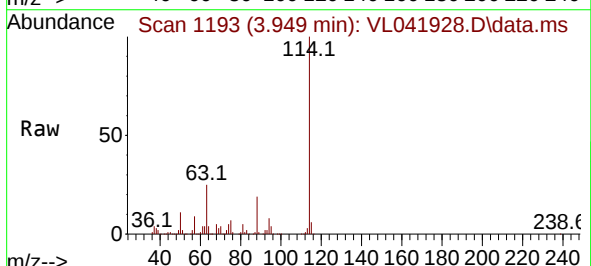
Tgt Ion: 114 Resp: 374281

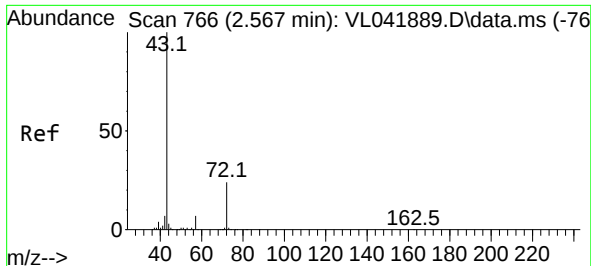
Ion Ratio Lower Upper

114 100

63 24.8 19.8 29.6

88 17.6 14.4 21.6

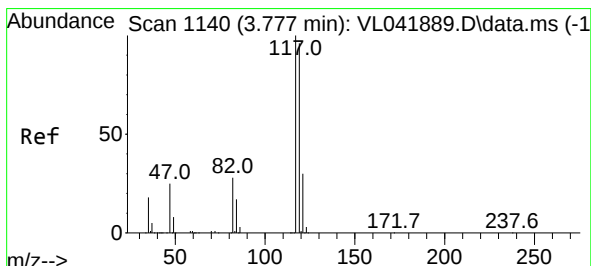
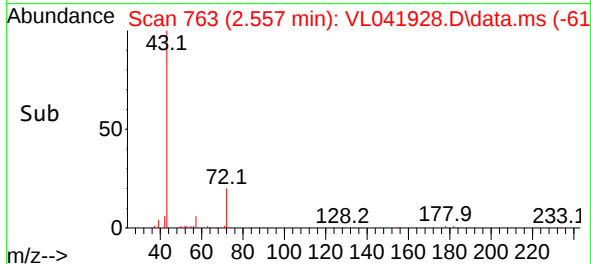
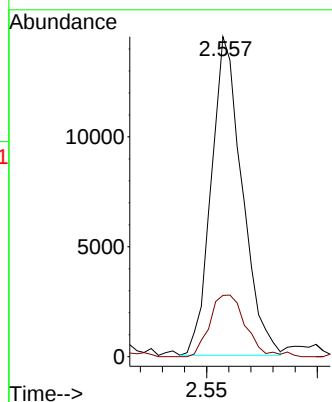
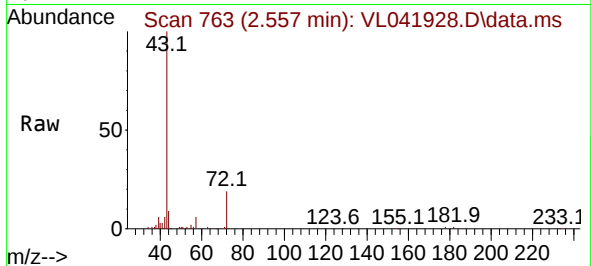




#34
2-Butanone
Concen: 0.590 ppbv
RT: 2.557 min Scan# 71
Delta R.T. -0.010 min
Lab File: VL041928.D
Acq: 20 Jan 2025 19:51

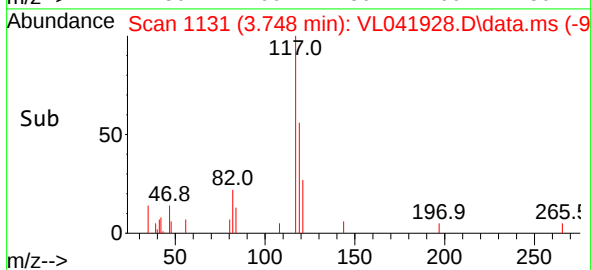
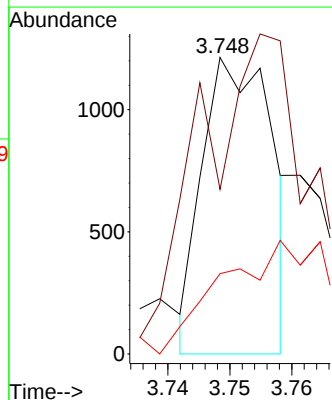
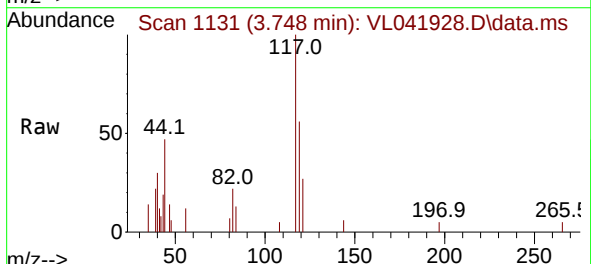
Instrument :
MSVOA_L
ClientSampleId :

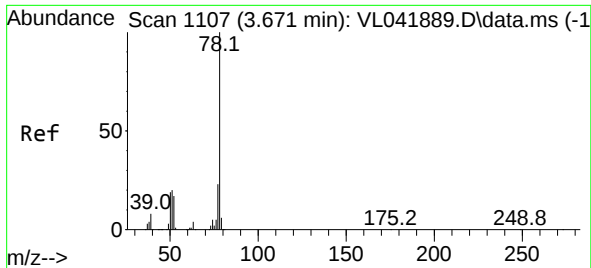
Tgt Ion: 43 Resp: 14051
Ion Ratio Lower Upper
43 100
72 22.8 18.6 28.0



#35
Carbon Tetrachloride
Concen: 0.041 ppbv
RT: 3.748 min Scan# 1131
Delta R.T. -0.029 min
Lab File: VL041928.D
Acq: 20 Jan 2025 19:51

Tgt Ion: 117 Resp: 953
Ion Ratio Lower Upper
117 100
119 3.8 76.9 115.3#
121 20.6 23.8 35.6#

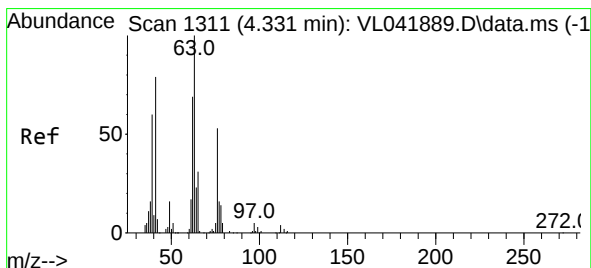
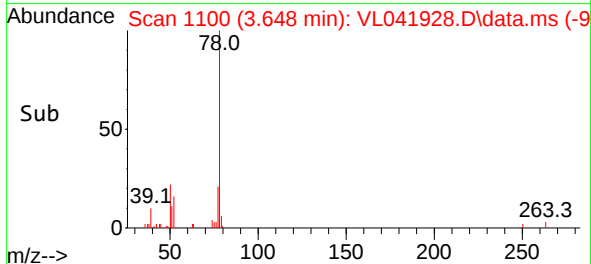
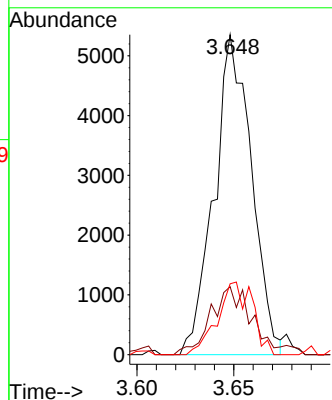
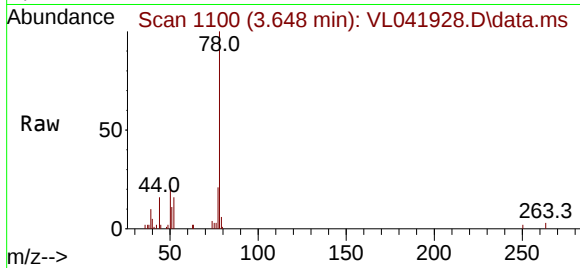




#36
Benzene
Concen: 0.209 ppbv
RT: 3.648 min Scan# 1107
Delta R.T. -0.022 min
Lab File: VL041928.D
Acq: 20 Jan 2025 19:51

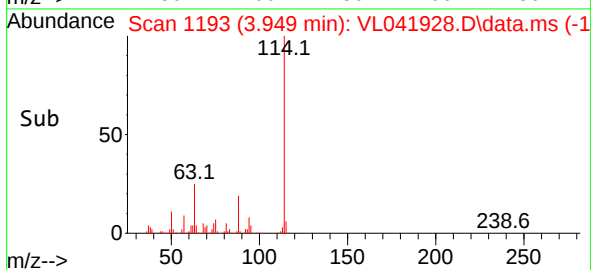
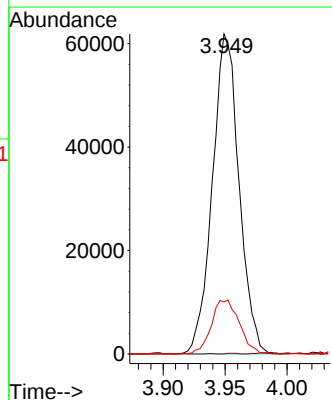
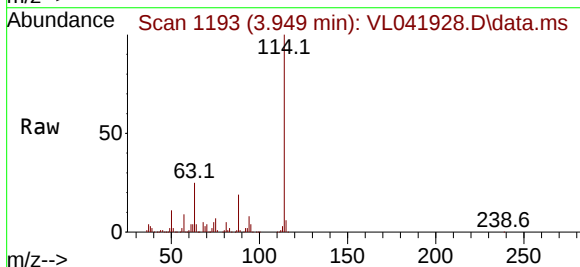
Instrument :
MSVOA_L
ClientSampleId :

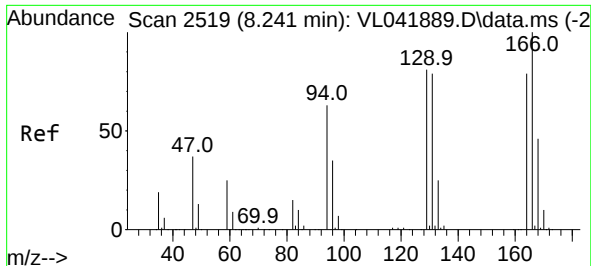
Tgt Ion: 78 Resp: 7177
Ion Ratio Lower Upper
78 100
77 19.6 18.1 27.1
50 22.2 15.2 22.8



#39
1,2-Dichloropropane
Concen: 7.702 ppbv
RT: 3.949 min Scan# 1193
Delta R.T. -0.382 min
Lab File: VL041928.D
Acq: 20 Jan 2025 19:51

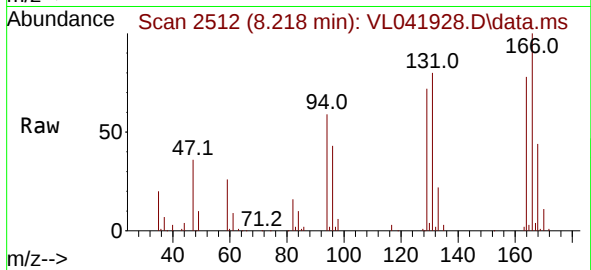
Tgt Ion: 63 Resp: 92751
Ion Ratio Lower Upper
63 100
41 0.1 63.7 95.5#
62 16.2 55.4 83.2#



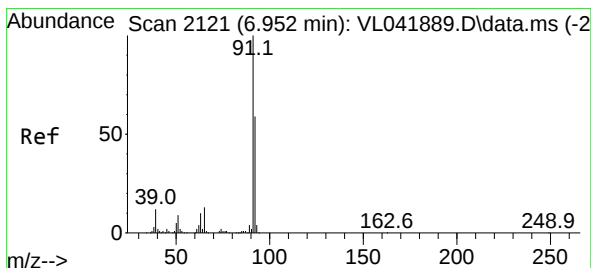
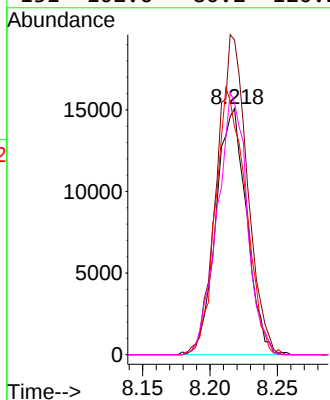
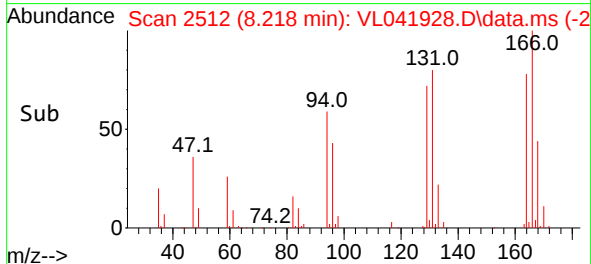


#52
Tetrachloroethene
Concen: 2.007 ppbv
RT: 8.218 min Scan# 2113
Delta R.T. -0.022 min
Lab File: VL041928.D
Acq: 20 Jan 2025 19:51

Instrument :
MSVOA_L
ClientSampleId :

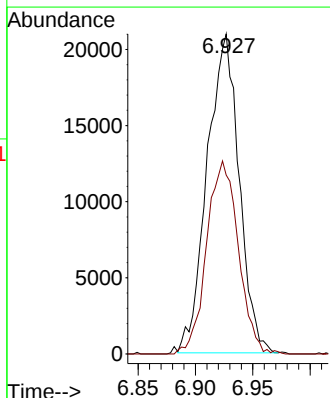
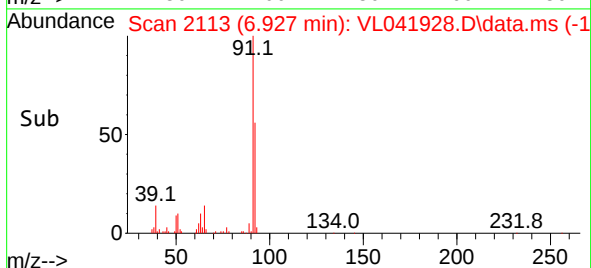
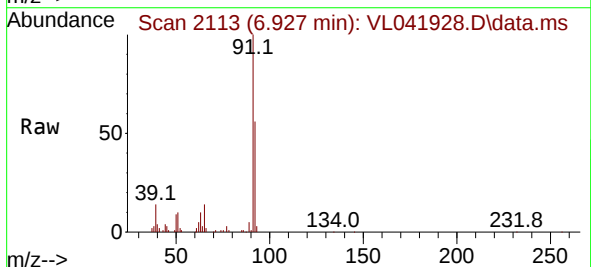


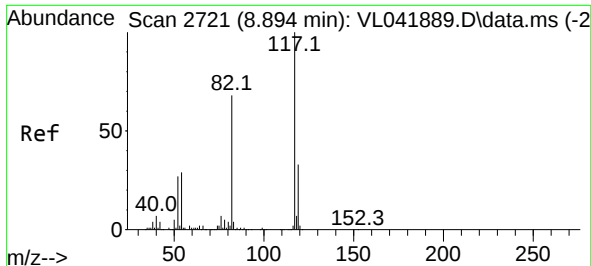
Tgt Ion:164 Resp: 23885
Ion Ratio Lower Upper
164 100
166 127.9 100.8 151.2
129 92.4 82.0 123.0
131 102.6 80.2 120.2



#53
Toluene
Concen: 1.084 ppbv
RT: 6.927 min Scan# 2113
Delta R.T. -0.026 min
Lab File: VL041928.D
Acq: 20 Jan 2025 19:51

Tgt Ion: 91 Resp: 40543
Ion Ratio Lower Upper
91 100
92 60.1 47.4 71.0

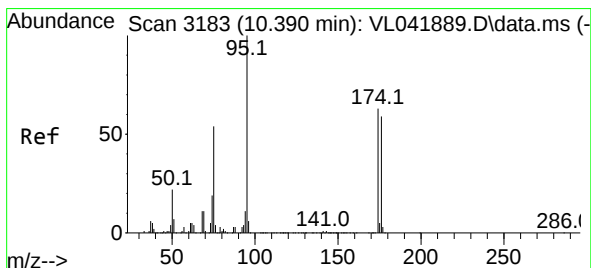
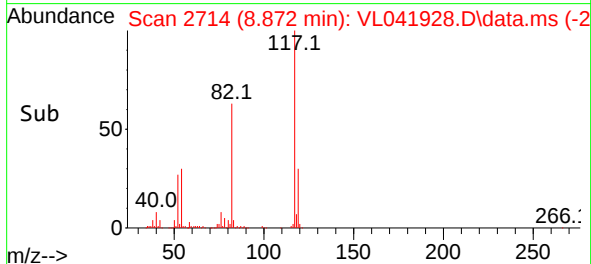
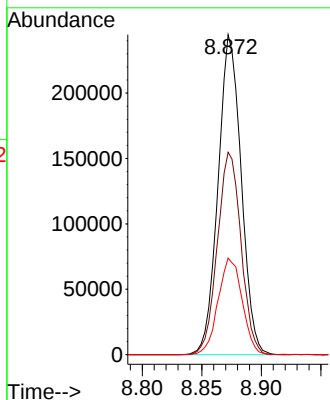
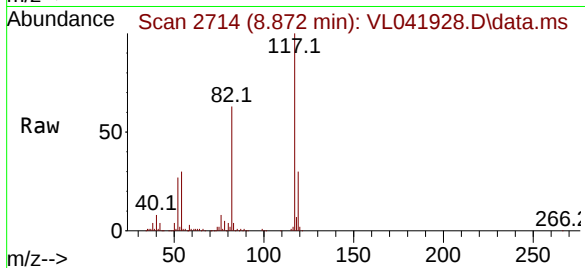




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.872 min Scan# 21
Delta R.T. -0.022 min
Lab File: VL041928.D
Acq: 20 Jan 2025 19:51

Instrument :
MSVOA_L
ClientSampleId :

Tgt Ion:117 Resp: 329727
Ion Ratio Lower Upper
117 100
82 64.7 54.2 81.4
119 31.4 25.0 37.6



#68
1-Bromo-4-Fluorobenzene
Concen: 9.794 ppbv
RT: 10.371 min Scan# 3177
Delta R.T. -0.019 min
Lab File: VL041928.D
Acq: 20 Jan 2025 19:51

Tgt Ion: 95 Resp: 254361
Ion Ratio Lower Upper
95 100
174 58.7 49.0 73.4
175 4.5 3.8 5.8

