

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL021125\
 Data File : VL042001.D
 Acq On : 11 Feb 2025 13:21
 Operator : SY/MD
 Sample : Q1342-02DUP
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Feb 11 22:20:07 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

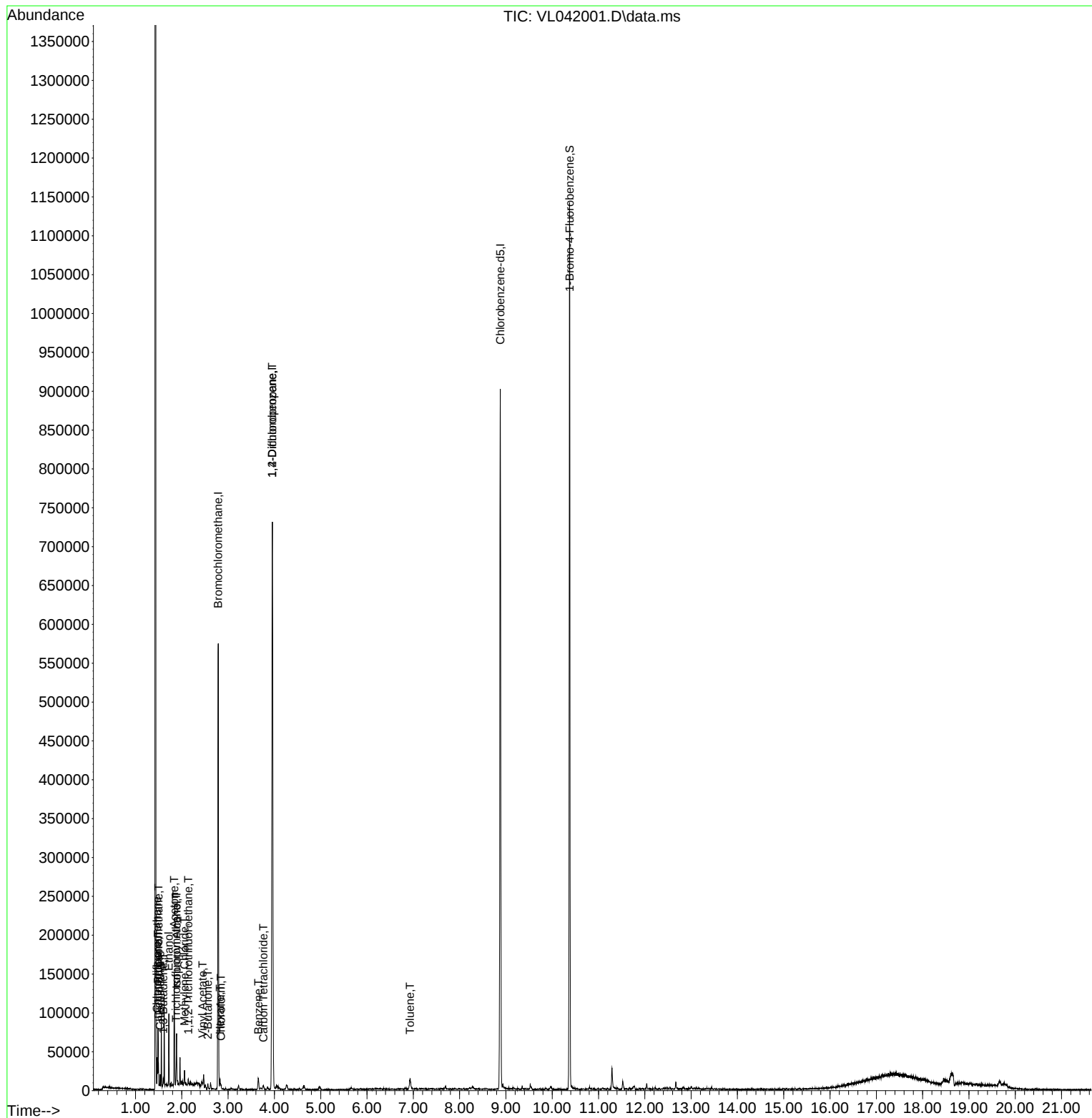
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

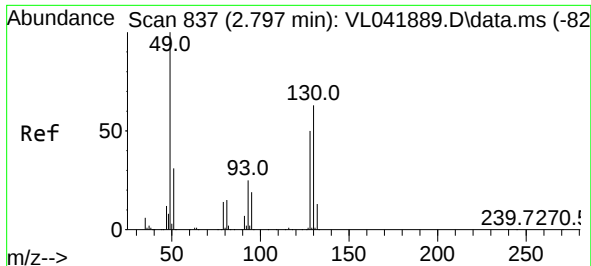
Internal Standards						
1) Bromochloromethane	2.784	49	160486	10.000	ppbv	-0.01
33) 1,4-Difluorobenzene	3.955	114	430354	10.000	ppbv	-0.02
55) Chlorobenzene-d5	8.878	117	367569	10.000	ppbv	-0.02
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.374	95	281645	9.728	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.300%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.499	85	7871	0.360	ppbv	98
3) Chlorodifluoromethane	1.466	51	15611	0.682	ppbv #	76
4) Chloromethane	1.531	50	4163	0.506	ppbv	90
9) Propene	1.486	41	6970	0.739	ppbv	88
11) Trichlorofluoromethane	1.877	101	4583	0.202	ppbv	96
12) 1,1,2-Trichlorotrifluo...	2.140	101	1403	0.079	ppbv #	81
13) Ethanol	1.719	45	32037	46.364	ppbv	89
15) Acetone	1.835	43	62639	3.250	ppbv	94
16) 1,3-Butadiene	1.599	39	1591	0.184	ppbv #	60
19) Isopropyl Alcohol	1.887	45	26218	2.294	ppbv #	36
20) Methylene Chloride	2.059	84	2784	0.365	ppbv	98
23) Vinyl Acetate	2.450	43	2098	0.220	ppbv #	54
26) Hexane	2.826	57	2091	0.102	ppbv #	58
29) Chloroform	2.848	83	1305	0.040	ppbv #	82
34) 2-Butanone	2.564	43	3995	0.146	ppbv	93
35) Carbon Tetrachloride	3.761	117	1183	0.044	ppbv #	62
36) Benzene	3.654	78	8621	0.218	ppbv #	94
39) 1,2-Dichloropropane	3.955	63	104342	7.536	ppbv #	22
53) Toluene	6.930	91	8867	0.206	ppbv	94

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

Instrument :
MSVOA_L
ClientSampleId :

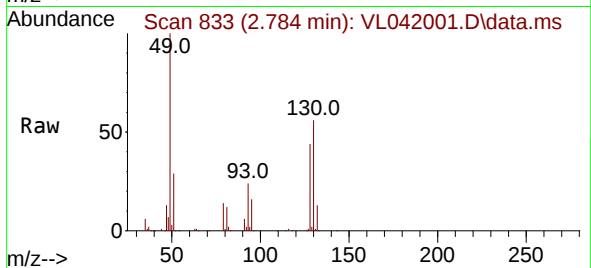
Quant Time: Feb 11 22:20:07 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Tue Jan 14 23:15:42 2025
Response via : Initial Calibration



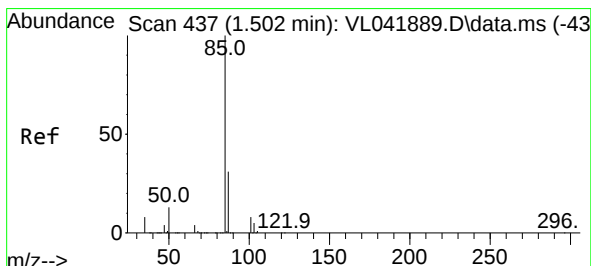
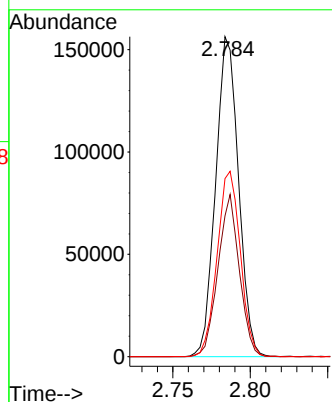
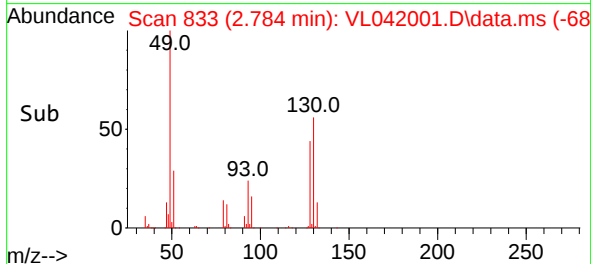


#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 81
Delta R.T. -0.013 min
Lab File: VL042001.D
Acq: 11 Feb 2025 13:21

Instrument :
MSVOA_L
ClientSampleId :

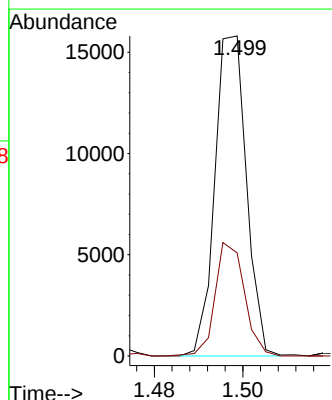
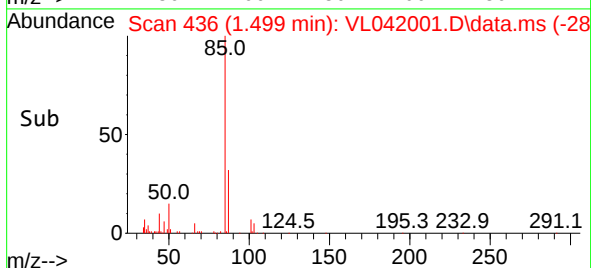
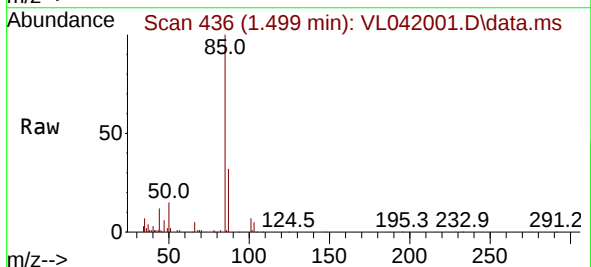


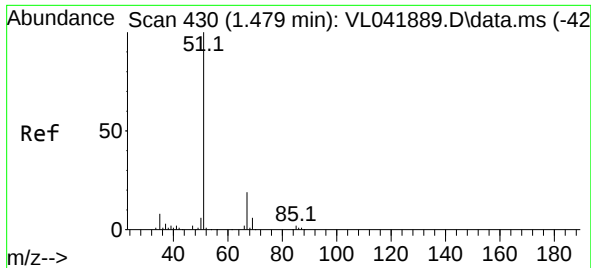
Tgt Ion: 49 Resp: 160486
Ion Ratio Lower Upper
49 100
128 47.4 24.3 73.0
130 58.8 31.1 93.2



#2
Dichlorodifluoromethane
Concen: 0.360 ppbv
RT: 1.499 min Scan# 436
Delta R.T. -0.003 min
Lab File: VL042001.D
Acq: 11 Feb 2025 13:21

Tgt Ion: 85 Resp: 7871
Ion Ratio Lower Upper
85 100
87 32.2 24.9 37.3

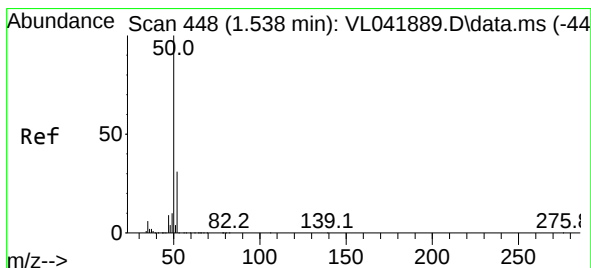
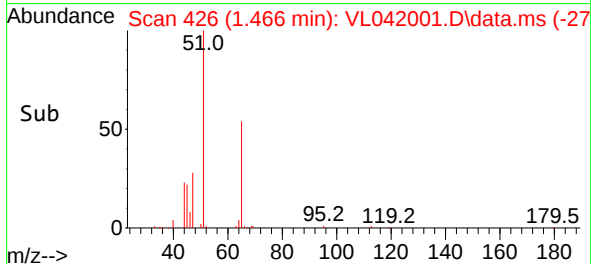
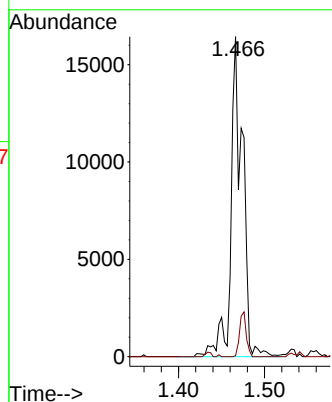
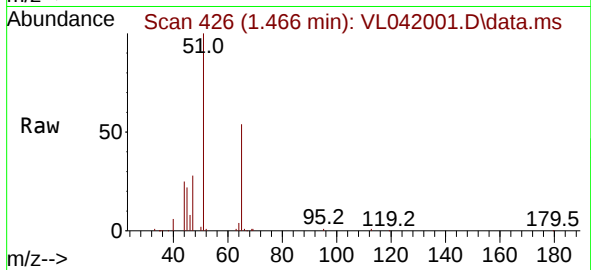




#3
Chlorodifluoromethane
Concen: 0.682 ppbv
RT: 1.466 min Scan# 41
Delta R.T. -0.013 min
Lab File: VL042001.D
Acq: 11 Feb 2025 13:21

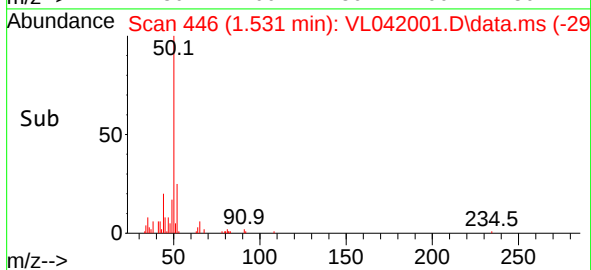
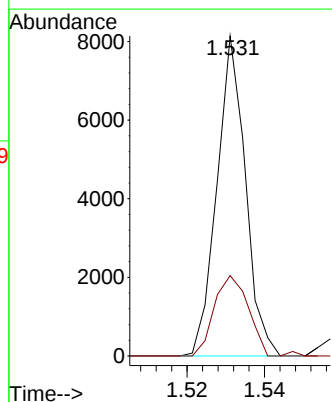
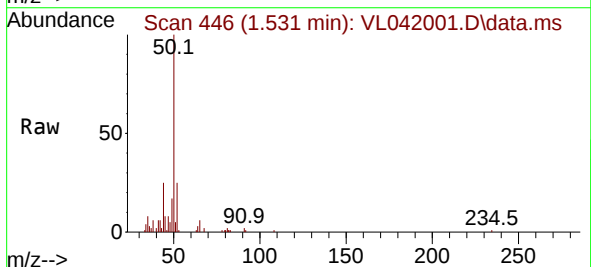
Instrument :
MSVOA_L
ClientSampleId :

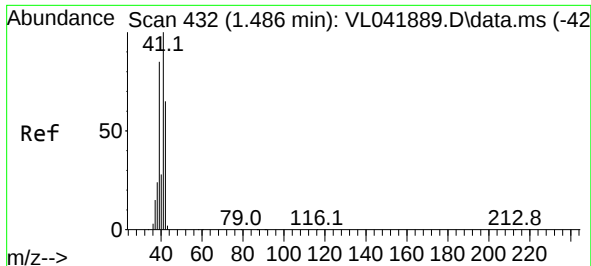
Tgt Ion: 51 Resp: 15611
Ion Ratio Lower Upper
51 100
67 7.9 15.0 22.4#



#4
Chloromethane
Concen: 0.506 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.006 min
Lab File: VL042001.D
Acq: 11 Feb 2025 13:21

Tgt Ion: 50 Resp: 4163
Ion Ratio Lower Upper
50 100
52 25.1 24.6 36.8





#9

Propene

Concen: 0.739 ppbv

RT: 1.486 min Scan# 41

Delta R.T. -0.000 min

Lab File: VL042001.D

Acq: 11 Feb 2025 13:21

Instrument :

MSVOA_L

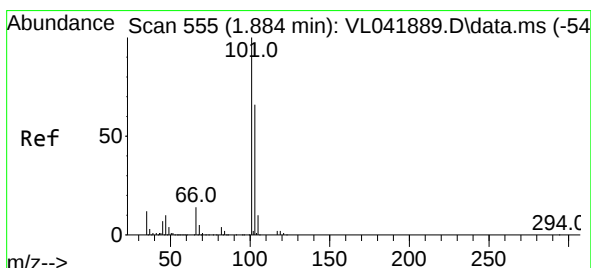
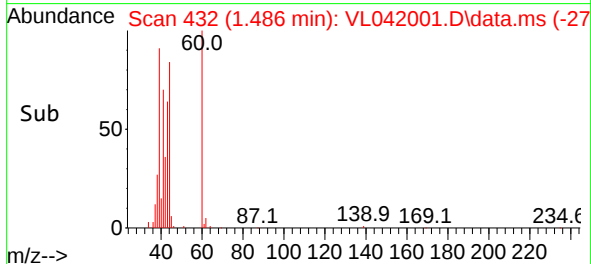
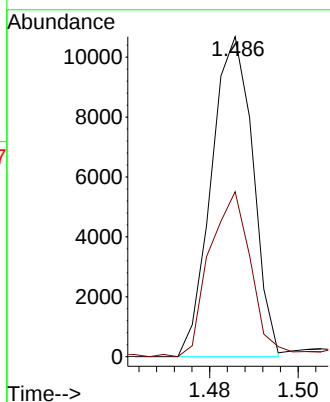
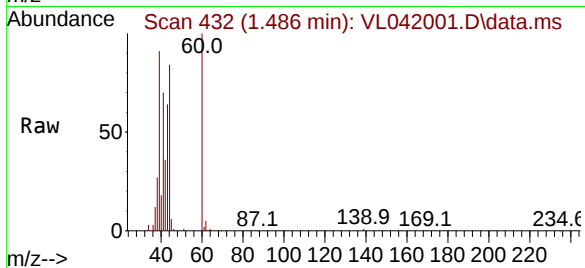
ClientSampleId :

Tgt Ion: 41 Resp: 6970

Ion Ratio Lower Upper

41 100

42 55.7 52.0 78.0



#11

Trichlorofluoromethane

Concen: 0.202 ppbv

RT: 1.877 min Scan# 553

Delta R.T. -0.006 min

Lab File: VL042001.D

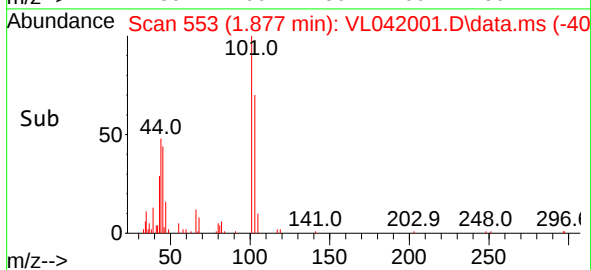
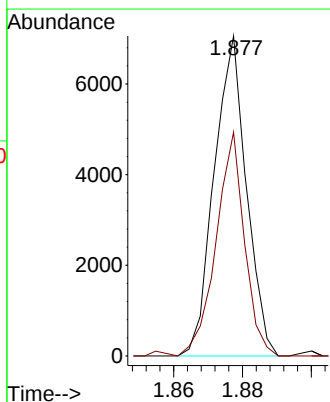
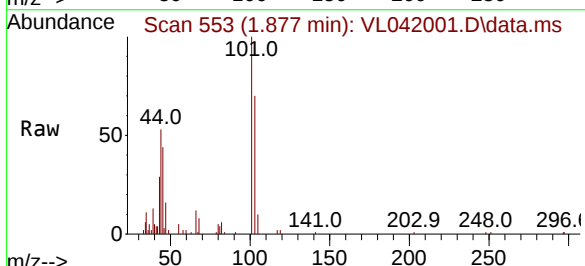
Acq: 11 Feb 2025 13:21

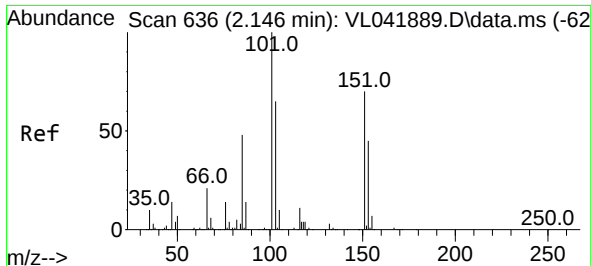
Tgt Ion:101 Resp: 4583

Ion Ratio Lower Upper

101 100

103 69.9 53.1 79.7





#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.079 ppbv

RT: 2.140 min Scan# 61

Delta R.T. -0.006 min

Lab File: VL042001.D

Acq: 11 Feb 2025 13:21

Instrument :

MSVOA_L

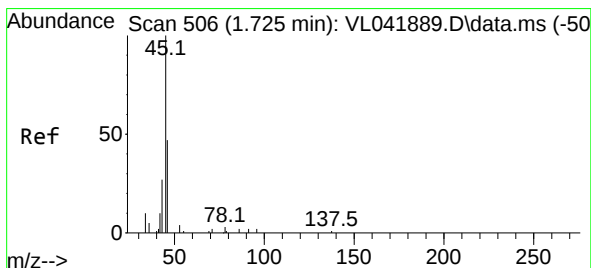
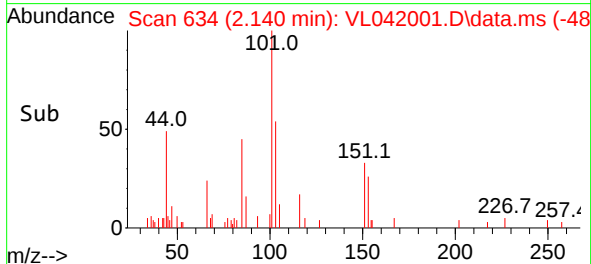
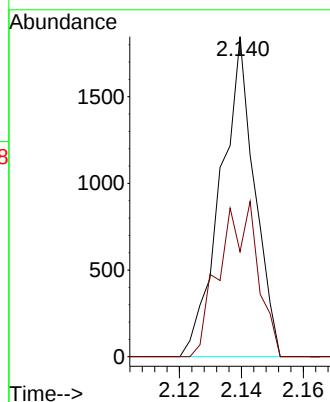
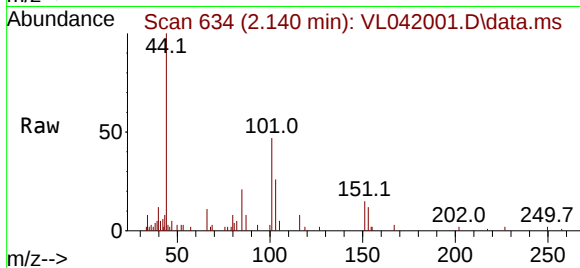
ClientSampleId :

Tgt Ion:101 Resp: 1403

Ion Ratio Lower Upper

101 100

151 54.7 56.1 84.1#



#13

Ethanol

Concen: 46.364 ppbv

RT: 1.719 min Scan# 504

Delta R.T. -0.006 min

Lab File: VL042001.D

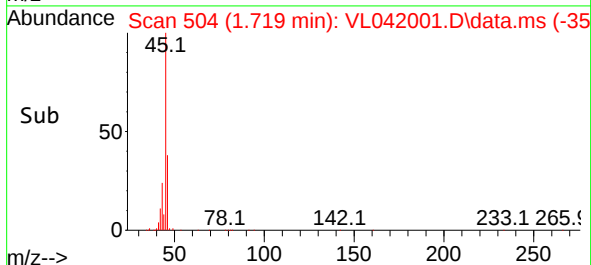
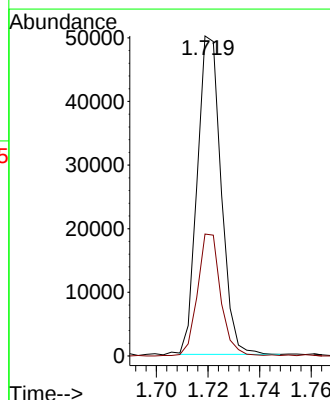
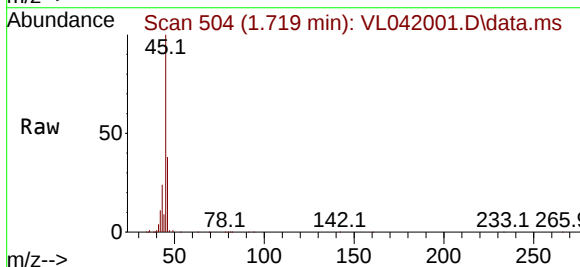
Acq: 11 Feb 2025 13:21

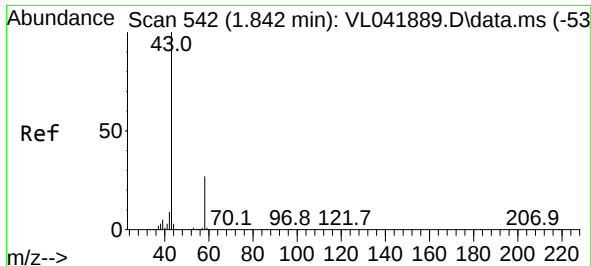
Tgt Ion: 45 Resp: 32037

Ion Ratio Lower Upper

45 100

46 38.0 18.1 72.5

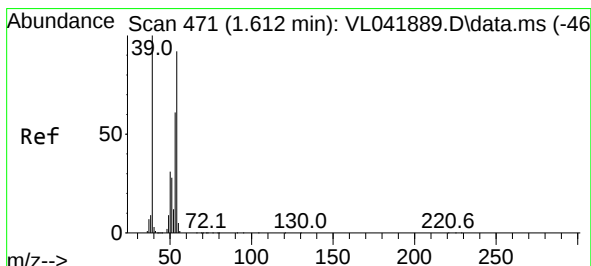
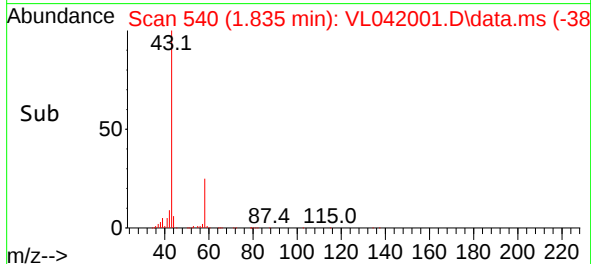
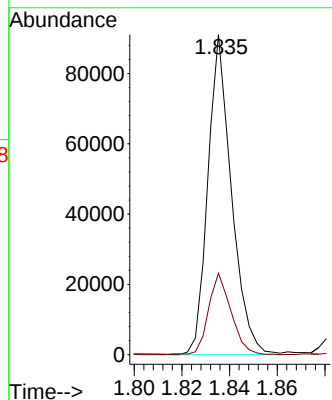
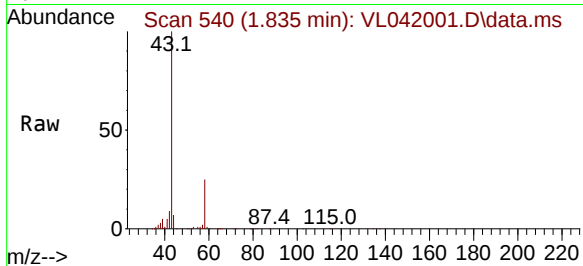




#15
Acetone
Concen: 3.250 ppbv
RT: 1.835 min Scan# 54
Delta R.T. -0.007 min
Lab File: VL042001.D
Acq: 11 Feb 2025 13:21

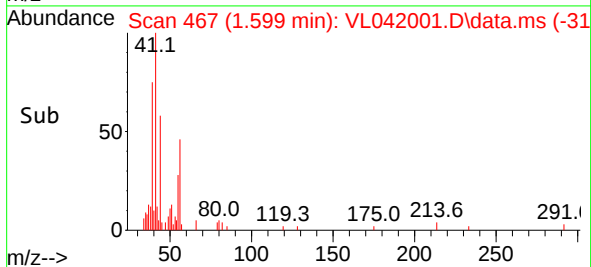
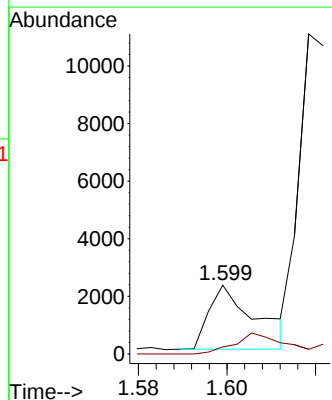
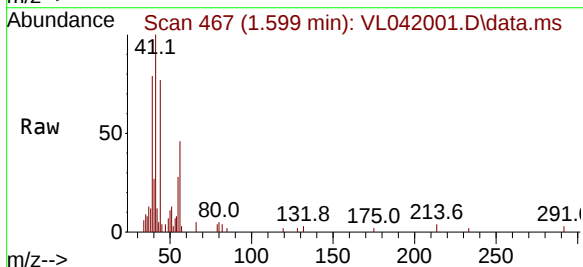
Instrument :
MSVOA_L
ClientSampleId :

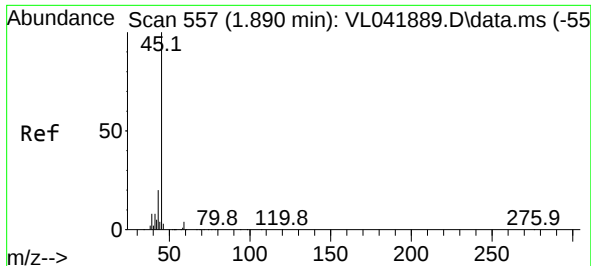
Tgt Ion: 43 Resp: 62639
Ion Ratio Lower Upper
43 100
58 24.3 21.9 32.9



#16
1,3-Butadiene
Concen: 0.184 ppbv
RT: 1.599 min Scan# 467
Delta R.T. -0.013 min
Lab File: VL042001.D
Acq: 11 Feb 2025 13:21

Tgt Ion: 39 Resp: 1591
Ion Ratio Lower Upper
39 100
54 42.6 61.6 92.4#





#19

Isopropyl Alcohol

Concen: 2.294 ppbv

RT: 1.887 min Scan# 51

Delta R.T. -0.003 min

Lab File: VL042001.D

Acq: 11 Feb 2025 13:21

Instrument :

MSVOA_L

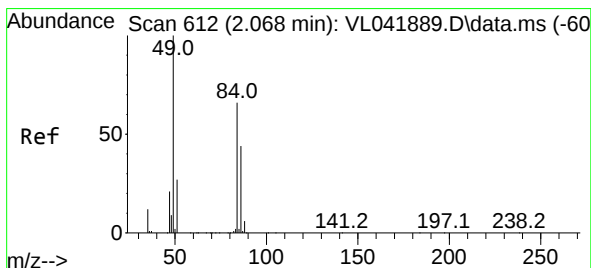
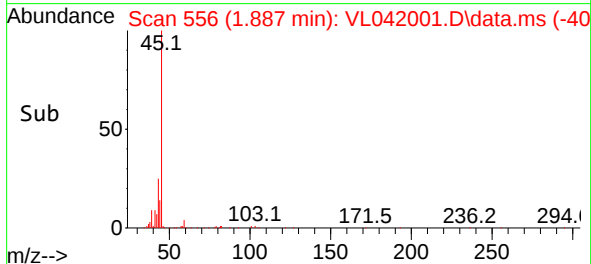
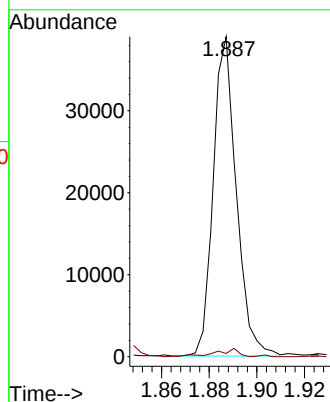
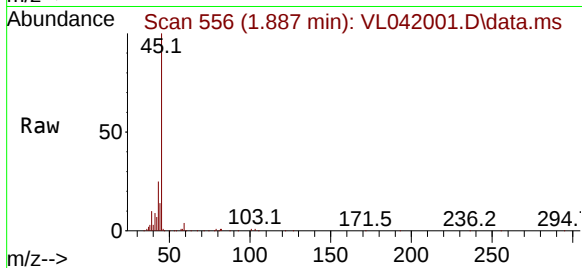
ClientSampleId :

Tgt Ion: 45 Resp: 26218

Ion Ratio Lower Upper

45 100

58 2.6 35.0 52.6#



#20

Methylene Chloride

Concen: 0.365 ppbv

RT: 2.059 min Scan# 609

Delta R.T. -0.010 min

Lab File: VL042001.D

Acq: 11 Feb 2025 13:21

Tgt Ion: 84 Resp: 2784

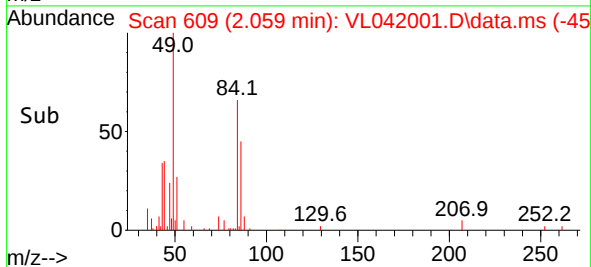
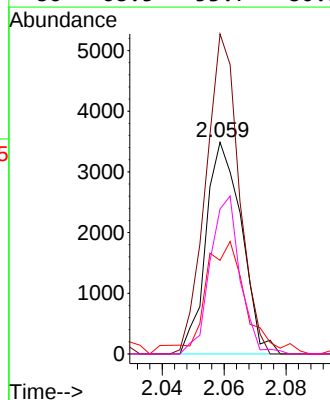
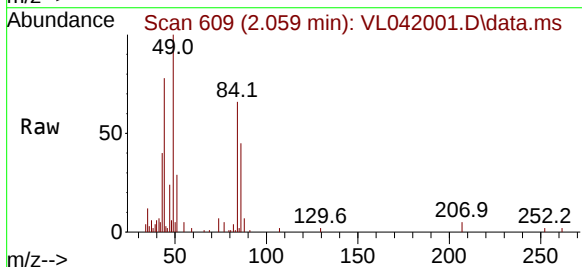
Ion Ratio Lower Upper

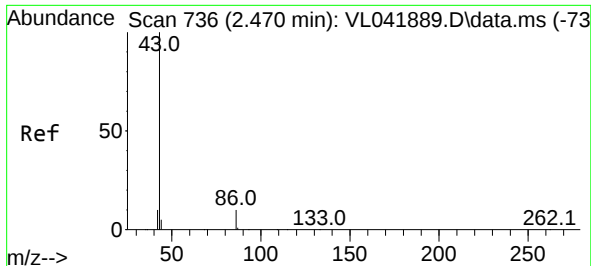
84 100

49 151.2 123.1 184.7

51 41.5 35.8 53.8

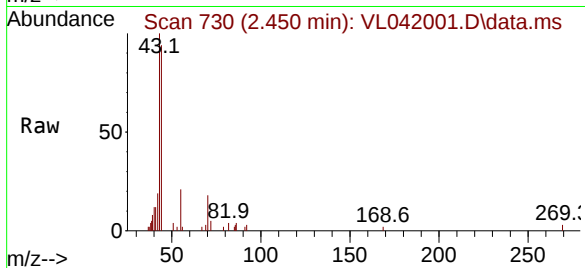
86 68.5 53.7 80.5



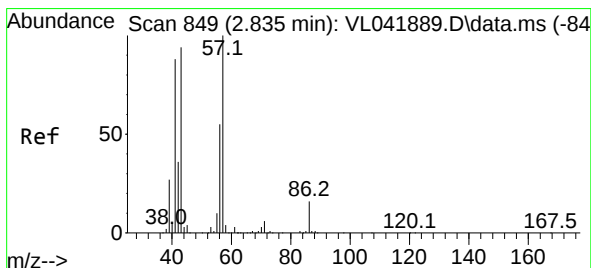
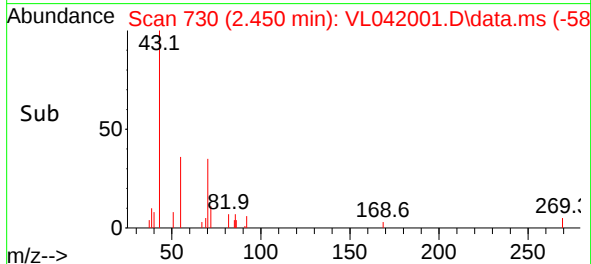
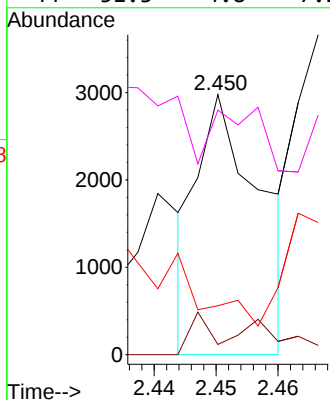


#23
 Vinyl Acetate
 Concen: 0.220 ppbv
 RT: 2.450 min Scan# 71
 Delta R.T. -0.019 min
 Lab File: VL042001.D
 Acq: 11 Feb 2025 13:21

Instrument :
 MSVOA_L
 ClientSampleId :

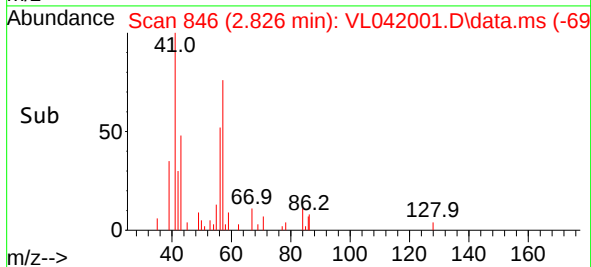
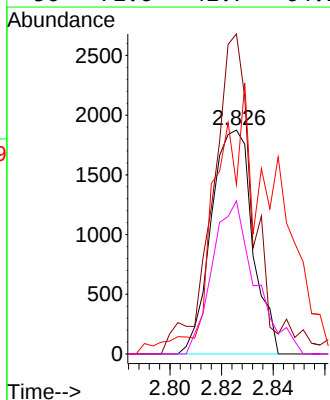
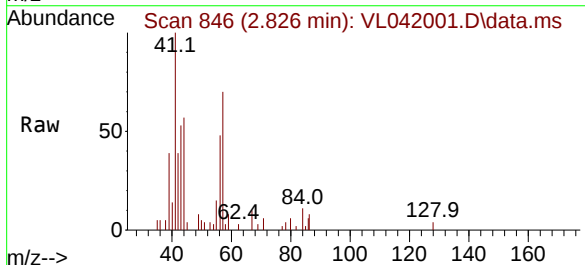


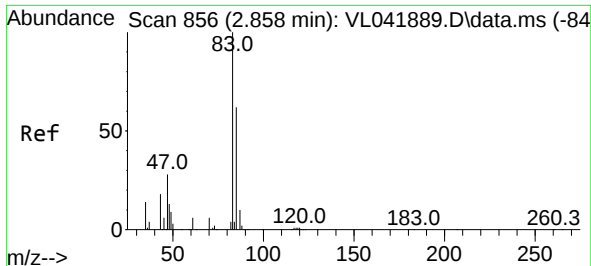
Tgt Ion:	43	Resp:	2098
Ion Ratio	Lower	Upper	
43	100		
86	8.7	6.2	9.4
42	0.0	8.5	12.7#
44	51.3	4.8	7.2#



#26
 Hexane
 Concen: 0.102 ppbv
 RT: 2.826 min Scan# 846
 Delta R.T. -0.010 min
 Lab File: VL042001.D
 Acq: 11 Feb 2025 13:21

Tgt Ion:	57	Resp:	2091
Ion Ratio	Lower	Upper	
57	100		
41	144.4	73.8	110.8#
43	175.2	197.3	295.9#
56	72.6	42.7	64.1#





#29

Chloroform

Concen: 0.040 ppbv

RT: 2.848 min Scan# 81

Delta R.T. -0.010 min

Lab File: VL042001.D

Acq: 11 Feb 2025 13:21

Instrument :

MSVOA_L

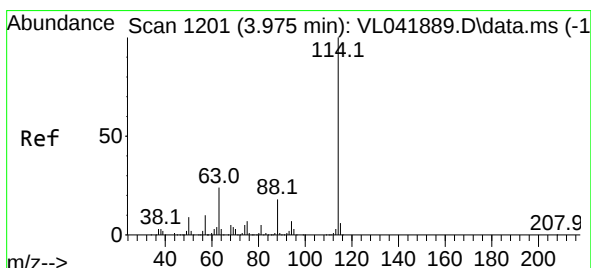
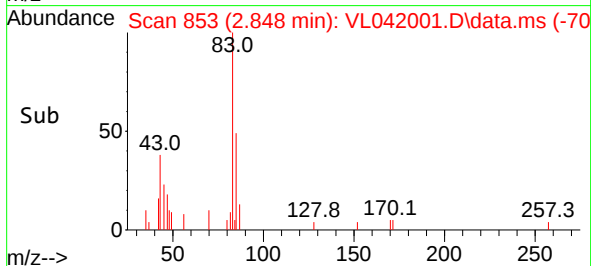
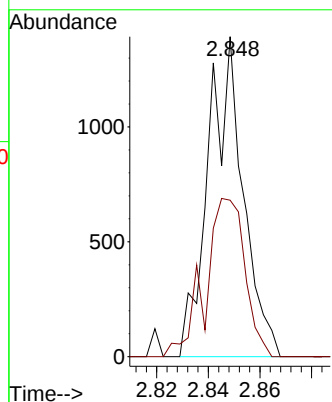
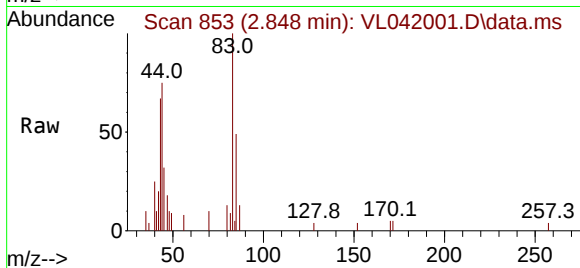
ClientSampleId :

Tgt Ion: 83 Resp: 1305

Ion Ratio Lower Upper

83 100

85 48.9 50.1 75.1#



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.955 min Scan# 1195

Delta R.T. -0.019 min

Lab File: VL042001.D

Acq: 11 Feb 2025 13:21

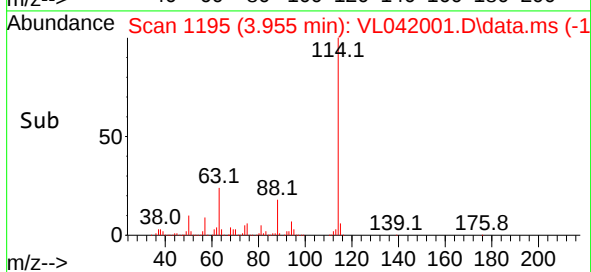
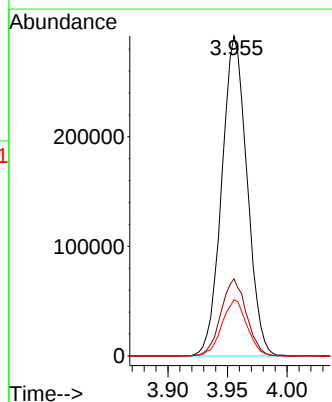
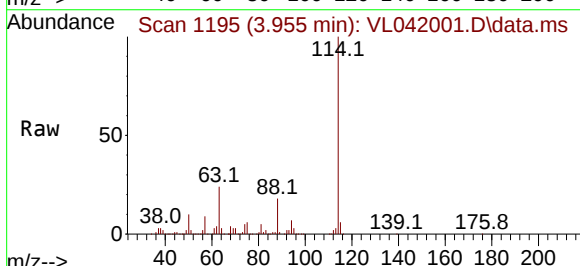
Tgt Ion: 114 Resp: 430354

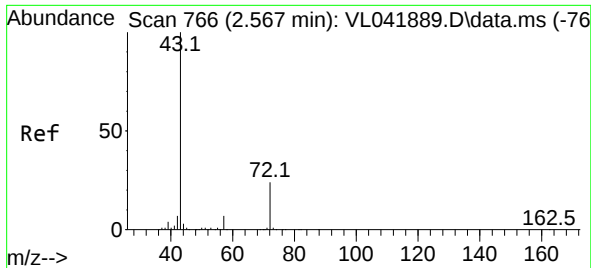
Ion Ratio Lower Upper

114 100

63 24.3 19.8 29.6

88 17.4 14.4 21.6

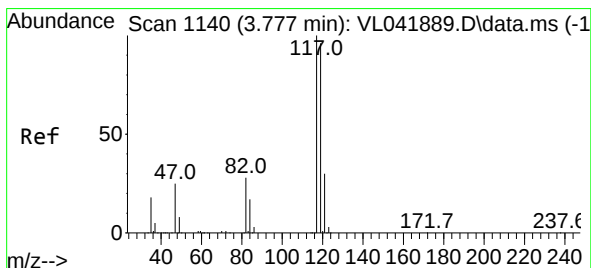
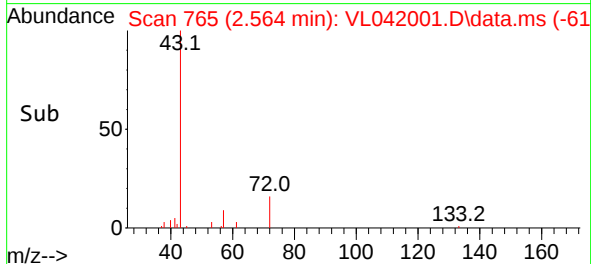
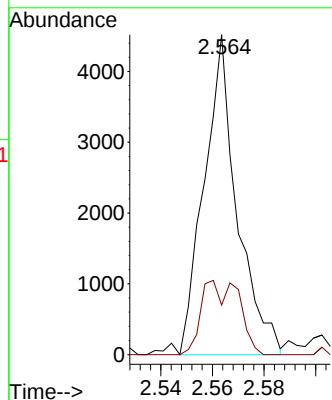
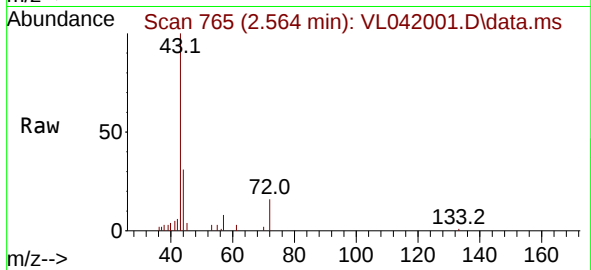




#34
2-Butanone
Concen: 0.146 ppbv
RT: 2.564 min Scan# 71
Delta R.T. -0.003 min
Lab File: VL042001.D
Acq: 11 Feb 2025 13:21

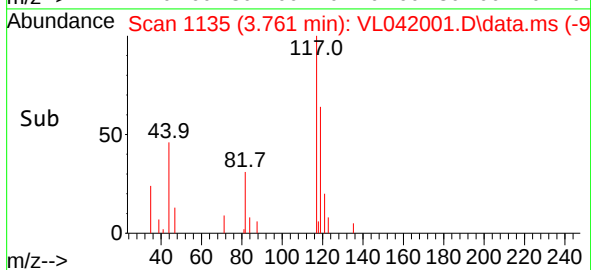
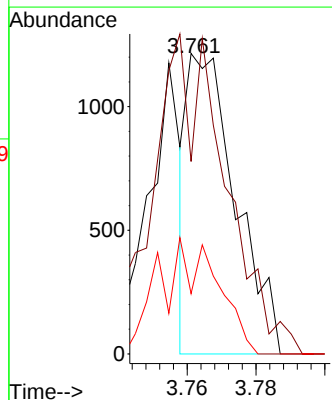
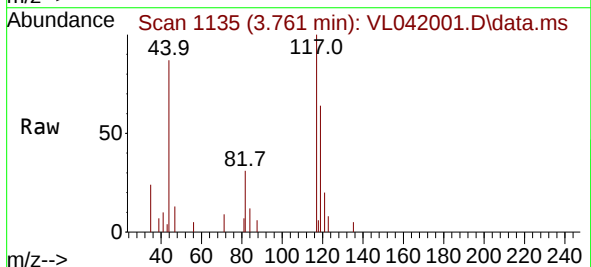
Instrument :
MSVOA_L
ClientSampleId :

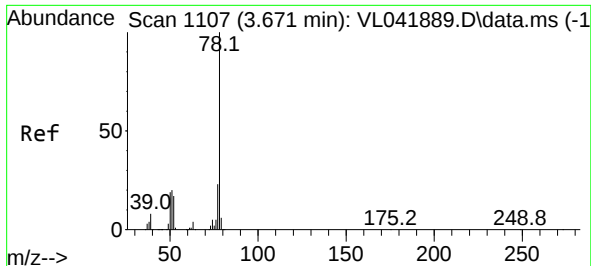
Tgt Ion: 43 Resp: 3995
Ion Ratio Lower Upper
43 100
72 26.7 18.6 28.0



#35
Carbon Tetrachloride
Concen: 0.044 ppbv
RT: 3.761 min Scan# 1135
Delta R.T. -0.016 min
Lab File: VL042001.D
Acq: 11 Feb 2025 13:21

Tgt Ion: 117 Resp: 1183
Ion Ratio Lower Upper
117 100
119 53.3 76.9 115.3#
121 20.1 23.8 35.6#

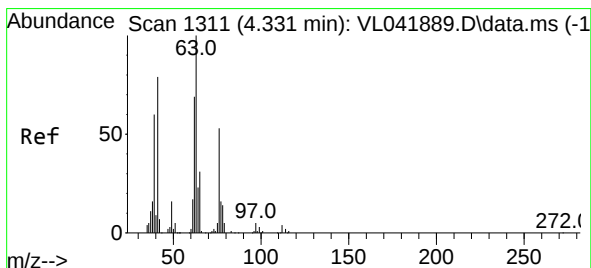
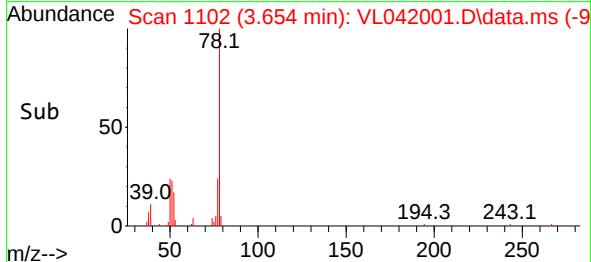
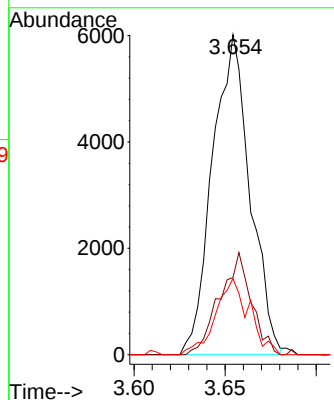
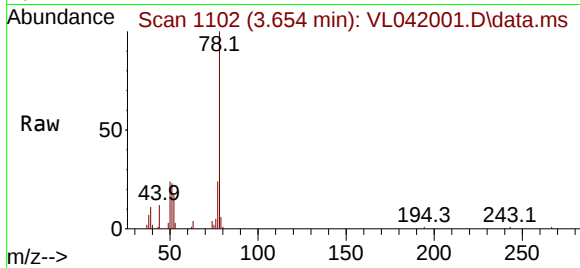




#36
Benzene
Concen: 0.218 ppbv
RT: 3.654 min Scan# 1102
Delta R.T. -0.016 min
Lab File: VL042001.D
Acq: 11 Feb 2025 13:21

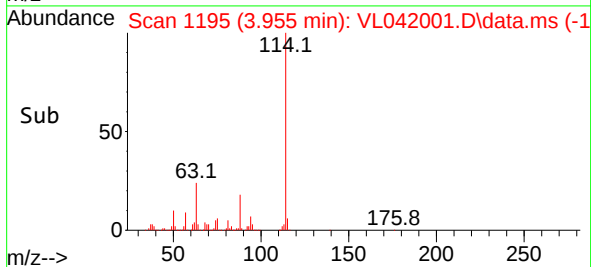
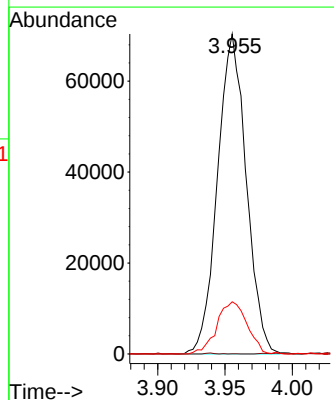
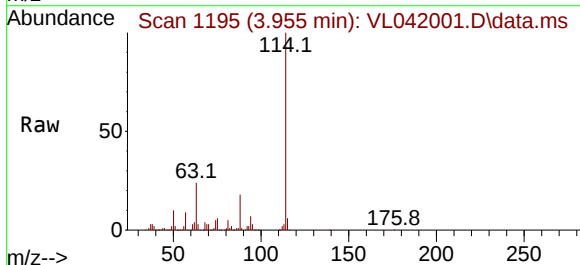
Instrument :
MSVOA_L
ClientSampleId :

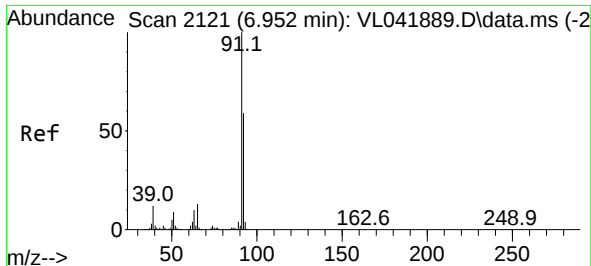
Tgt Ion: 78 Resp: 8621
Ion Ratio Lower Upper
78 100
77 24.1 18.1 27.1
50 23.7 15.2 22.8#



#39
1,2-Dichloropropane
Concen: 7.536 ppbv
RT: 3.955 min Scan# 1195
Delta R.T. -0.375 min
Lab File: VL042001.D
Acq: 11 Feb 2025 13:21

Tgt Ion: 63 Resp: 104342
Ion Ratio Lower Upper
63 100
41 0.2 63.7 95.5#
62 16.3 55.4 83.2#

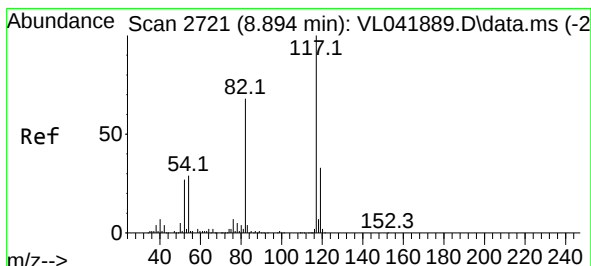
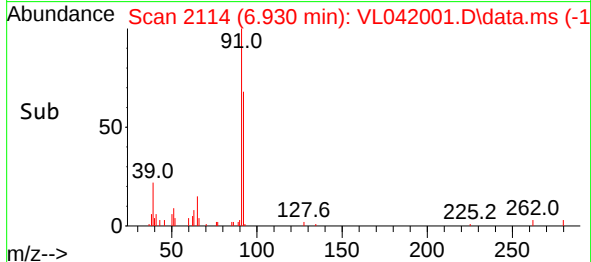
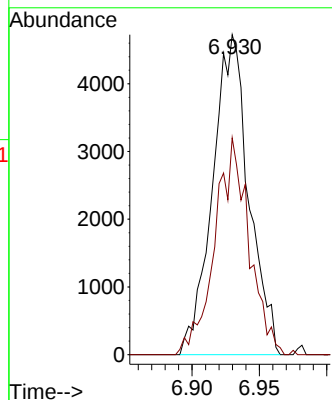
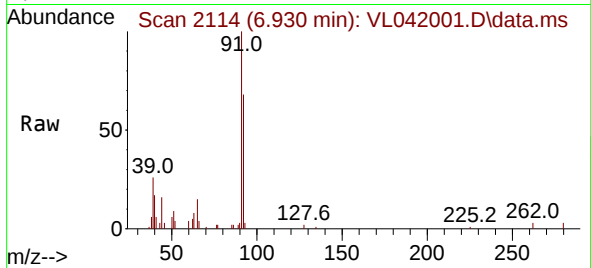




#53
Toluene
Concen: 0.206 ppbv
RT: 6.930 min Scan# 2114
Delta R.T. -0.023 min
Lab File: VL042001.D
Acq: 11 Feb 2025 13:21

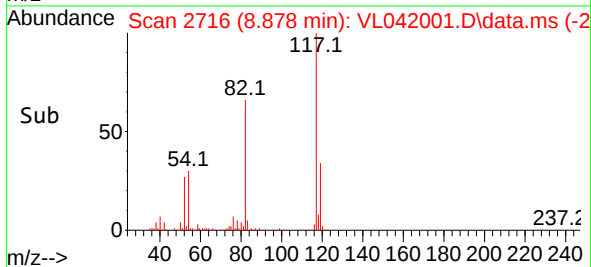
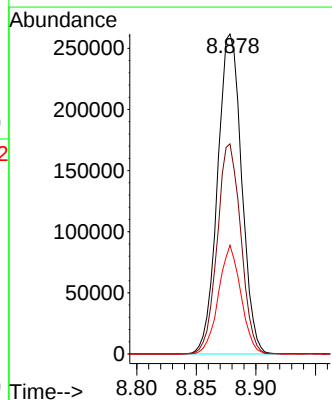
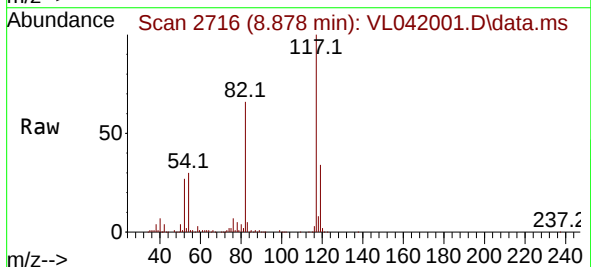
Instrument :
MSVOA_L
ClientSampleId :

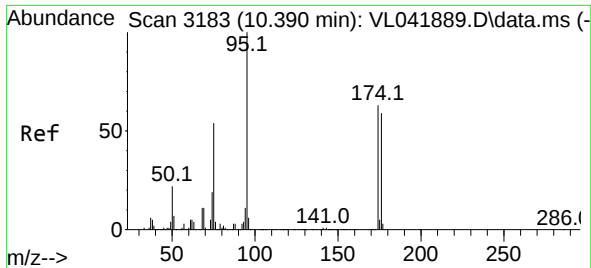
Tgt Ion: 91 Resp: 8867
Ion Ratio Lower Upper
91 100
92 63.8 47.4 71.0



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.878 min Scan# 2716
Delta R.T. -0.016 min
Lab File: VL042001.D
Acq: 11 Feb 2025 13:21

Tgt Ion: 117 Resp: 367569
Ion Ratio Lower Upper
117 100
82 64.3 54.2 81.4
119 31.6 25.0 37.6





#68

1-Bromo-4-Fluorobenzene

Concen: 9.728 ppbv

RT: 10.374 min Scan# 31

Delta R.T. -0.016 min

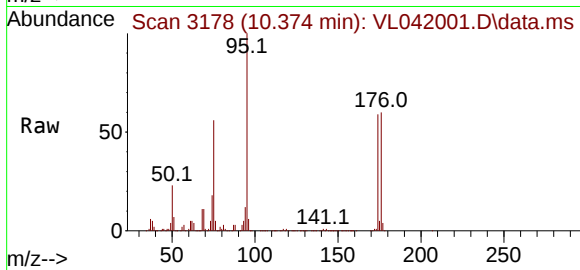
Lab File: VL042001.D

Acq: 11 Feb 2025 13:21

Instrument :

MSVOA_L

ClientSampleId :



Tgt Ion: 95 Resp: 281645

Ion Ratio Lower Upper

95 100

174 60.3 49.0 73.4

175 4.7 3.8 5.8

