

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL012025\
 Data File : VL041922.D
 Acq On : 20 Jan 2025 16:12
 Operator : SY/MD
 Sample : Q1090-02 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Jan 21 03:05:04 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)

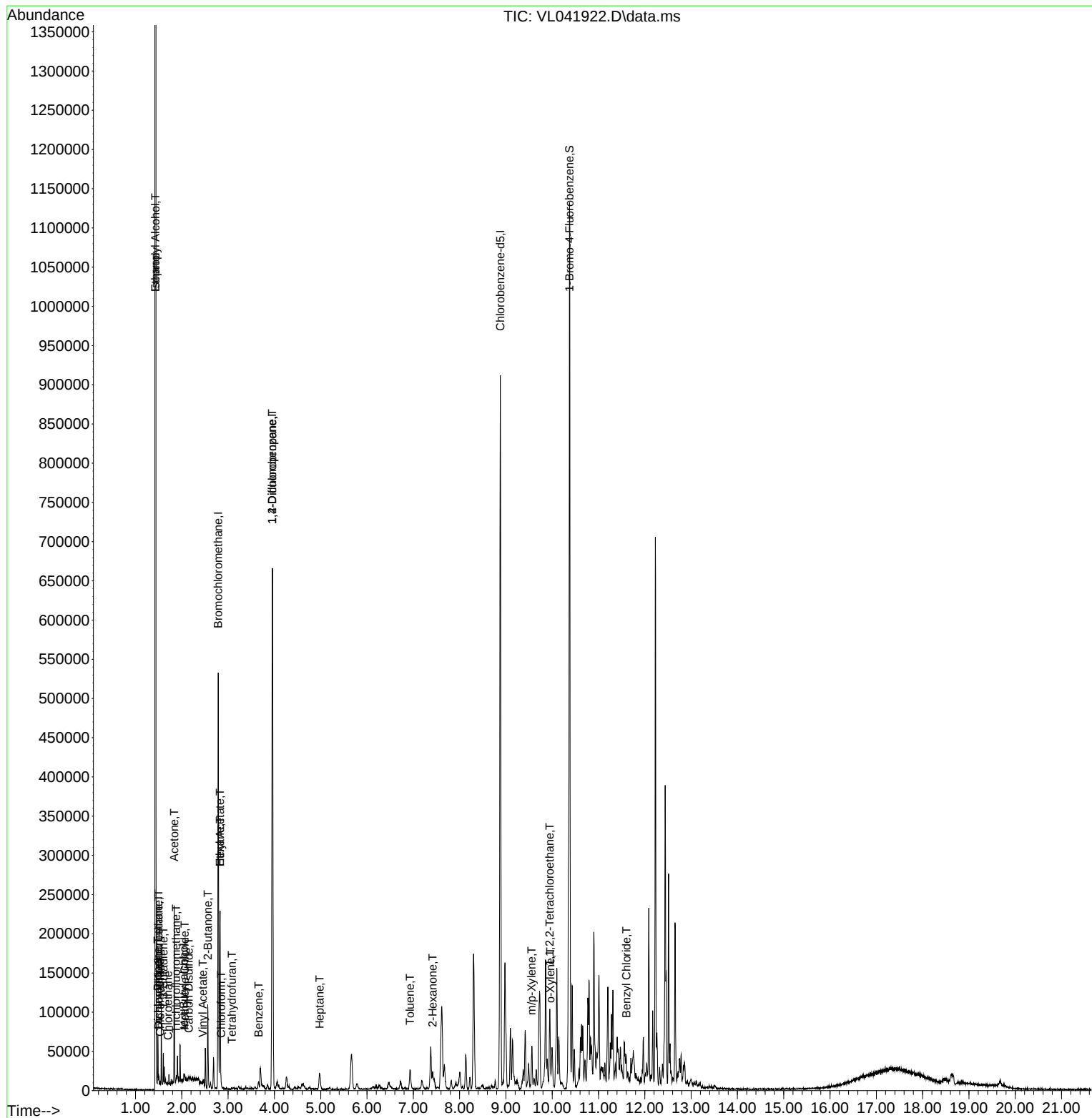
Internal Standards						
1) Bromochloromethane	2.787	49	141996	10.000	ppbv	-0.01
33) 1,4-Difluorobenzene	3.955	114	398544	10.000	ppbv	-0.02
55) Chlorobenzene-d5	8.878	117	362259	10.000	ppbv	-0.02
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.374	95	293749	10.295	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.000%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.499	85	3508	0.181	ppbv	100
4) Chloromethane	1.531	50	1665	0.229	ppbv	99
7) Chloroethane	1.703	64	177	0.062	ppbv	94
8) Dichlorotetrafluoroethane	1.499	85	3508	0.208	ppbv #	21
9) Propene	1.482	41	9289	1.113	ppbv	98
10) Heptane	4.978	43	4490	0.201	ppbv #	39
11) Trichlorofluoromethane	1.877	101	1065	0.053	ppbv	95
13) Ethanol	1.431	45	343515	561.865	ppbv	83
15) Acetone	1.835	43	91335	5.355	ppbv #	87
16) 1,3-Butadiene	1.602	39	4404	0.575	ppbv #	32
17) tert-Butyl alcohol	2.042	59	3346	0.159	ppbv #	89
19) Isopropyl Alcohol	1.431	45	343515	33.970	ppbv #	32
20) Methylene Chloride	2.062	84	1200	0.178	ppbv #	75
23) Vinyl Acetate	2.453	43	2166	0.256	ppbv #	72
25) Ethyl Acetate	2.826	43	35030	0.762	ppbv #	76
26) Hexane	2.826	57	51661	2.840	ppbv #	34
27) Carbon Disulfide	2.149	76	1441	0.080	ppbv #	1
29) Chloroform	2.852	83	3166	0.110	ppbv	98
34) 2-Butanone	2.560	43	62688	2.473	ppbv	99
36) Benzene	3.661	78	5690	0.156	ppbv #	91
39) 1,2-Dichloropropane	3.955	63	98661	7.694	ppbv #	22
41) Tetrahydrofuran	3.085	42	431	0.031	ppbv #	58
51) 2-Hexanone	7.418	43	1601	0.060	ppbv #	27
53) Toluene	6.926	91	17721	0.445	ppbv	96
59) m/p-Xylene	9.551	91	6282	0.138	ppbv	90
60) o-Xylene	9.959	91	6971	0.155	ppbv	91
63) 1,1,2,2-Tetrachloroethane	9.946	83	1752	0.061	ppbv #	57
66) Benzyl Chloride	11.603	91	131	0.033	ppbv #	66

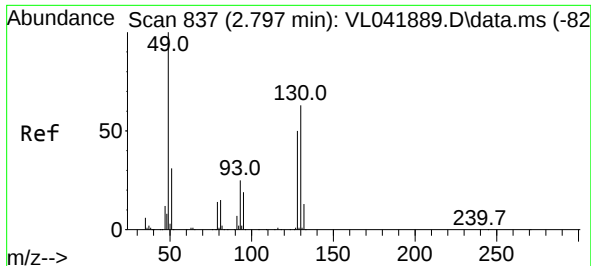
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL012025\
Data File : VL041922.D
Acq On : 20 Jan 2025 16:12
Operator : SY/MD
Sample : Q1090-02 4X
Misc : 400mL/MSVOA_L
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :

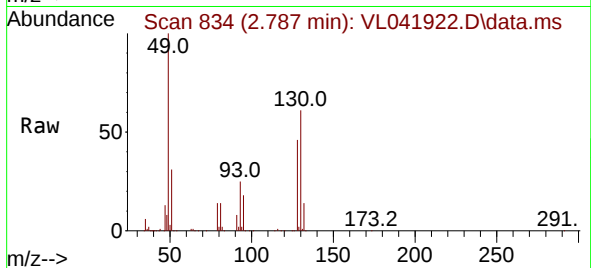
Quant Time: Jan 21 03:05:04 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Tue Jan 14 23:15:42 2025
Response via : Initial Calibration



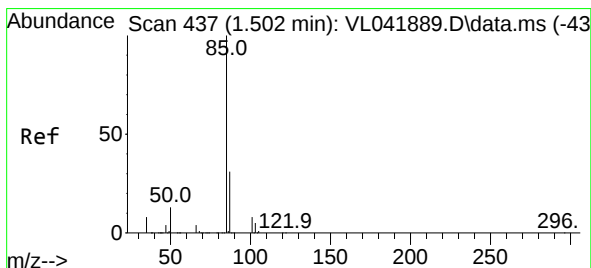
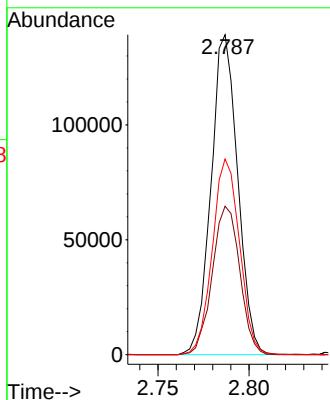
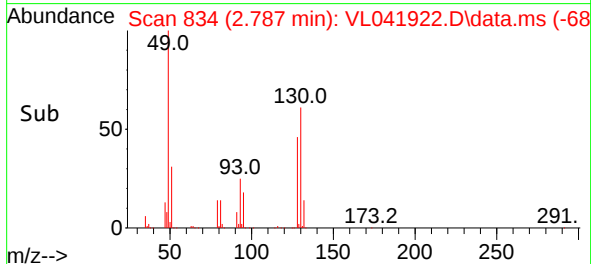


#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 2.787 min Scan# 81
 Delta R.T. -0.010 min
 Lab File: VL041922.D
 Acq: 20 Jan 2025 16:12

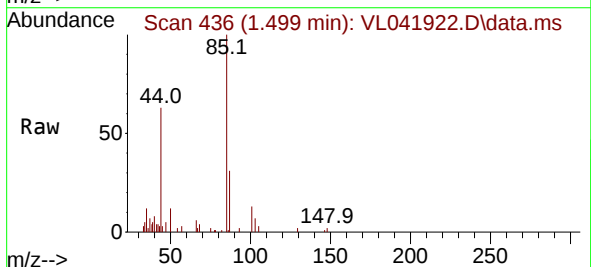
Instrument :
 MSVOA_L
 ClientSampleId :



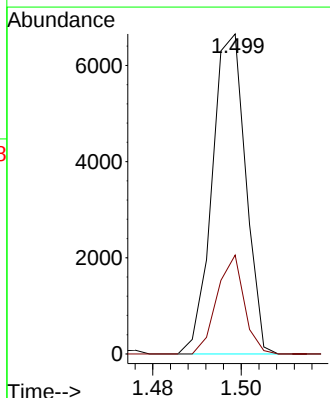
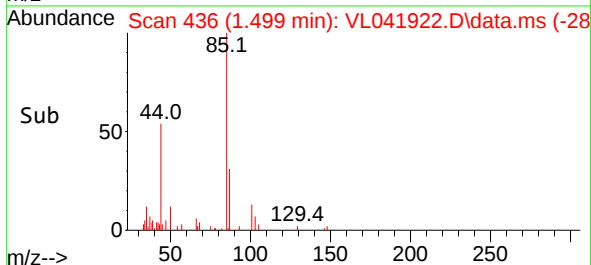
Tgt Ion: 49 Resp: 141996
 Ion Ratio Lower Upper
 49 100
 128 47.8 24.3 73.0
 130 62.3 31.1 93.2

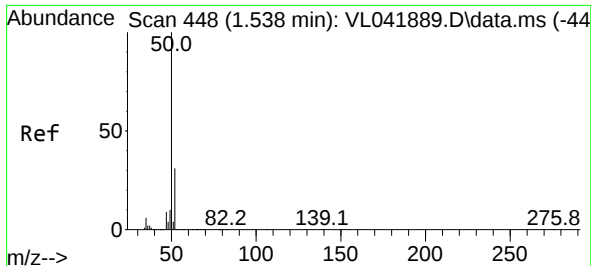


#2
 Dichlorodifluoromethane
 Concen: 0.181 ppbv
 RT: 1.499 min Scan# 436
 Delta R.T. -0.003 min
 Lab File: VL041922.D
 Acq: 20 Jan 2025 16:12



Tgt Ion: 85 Resp: 3508
 Ion Ratio Lower Upper
 85 100
 87 30.9 24.9 37.3

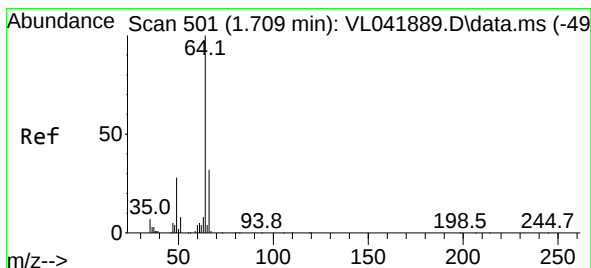
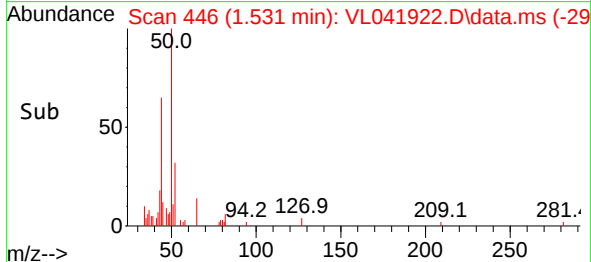
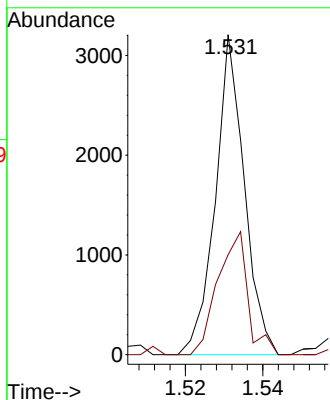
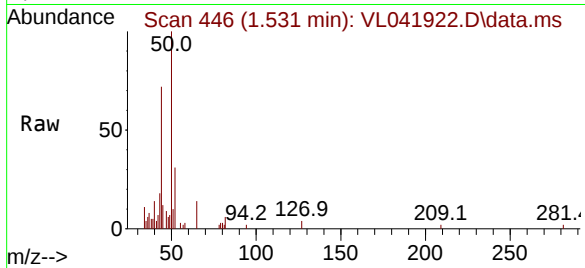




#4
Chloromethane
Concen: 0.229 ppbv
RT: 1.531 min Scan# 448
Delta R.T. -0.007 min
Lab File: VL041922.D
Acq: 20 Jan 2025 16:12

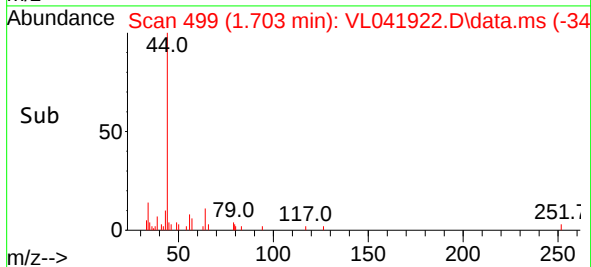
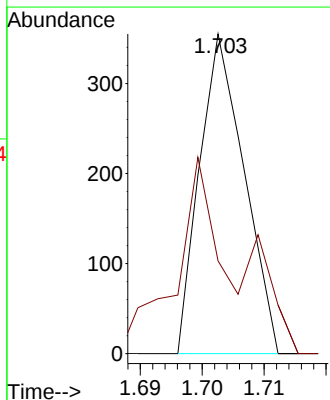
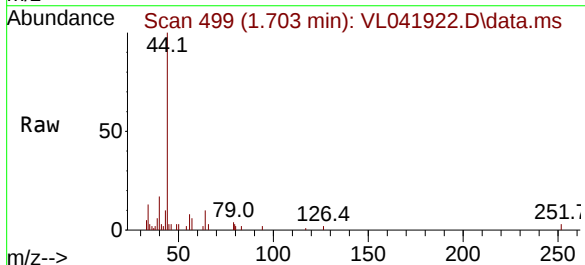
Instrument :
MSVOA_L
ClientSampleId :

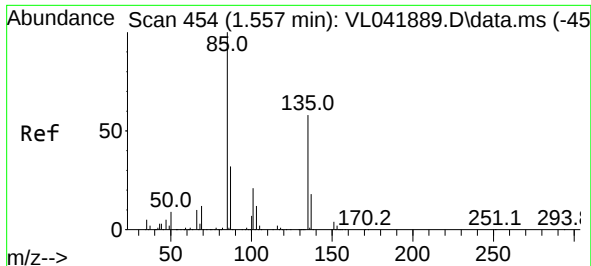
Tgt Ion: 50 Resp: 1665
Ion Ratio Lower Upper
50 100
52 31.2 24.6 36.8



#7
Chloroethane
Concen: 0.062 ppbv
RT: 1.703 min Scan# 499
Delta R.T. -0.007 min
Lab File: VL041922.D
Acq: 20 Jan 2025 16:12

Tgt Ion: 64 Resp: 177
Ion Ratio Lower Upper
64 100
66 29.0 25.7 38.5

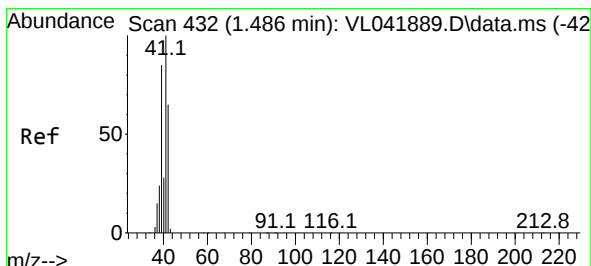
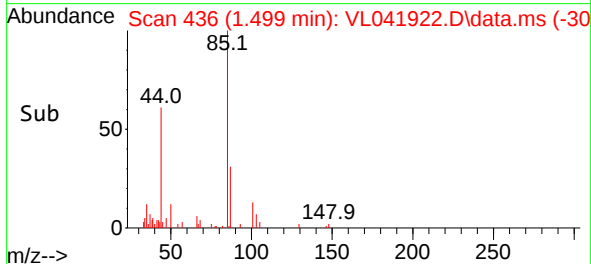
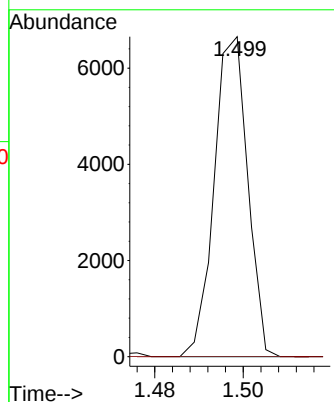
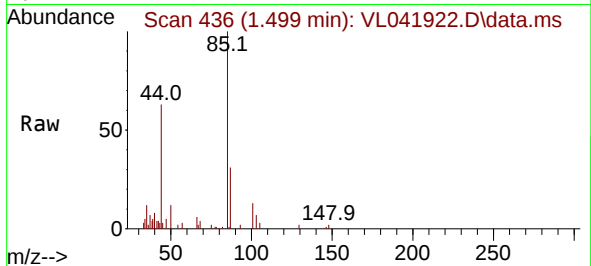




#8
 Dichlorotetrafluoroethane
 Concen: 0.208 ppbv
 RT: 1.499 min Scan# 41
 Delta R.T. -0.058 min
 Lab File: VL041922.D
 Acq: 20 Jan 2025 16:12

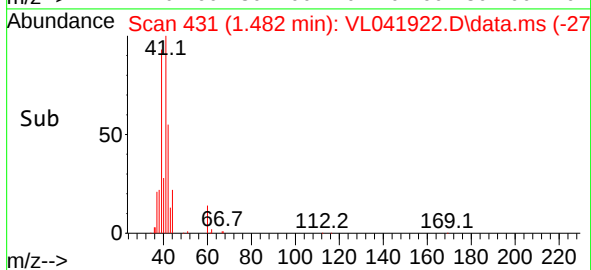
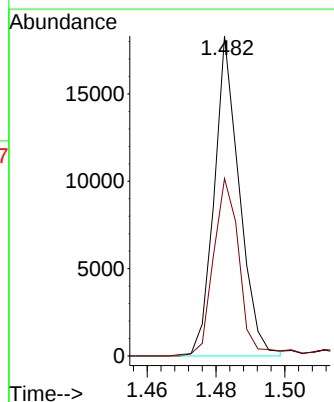
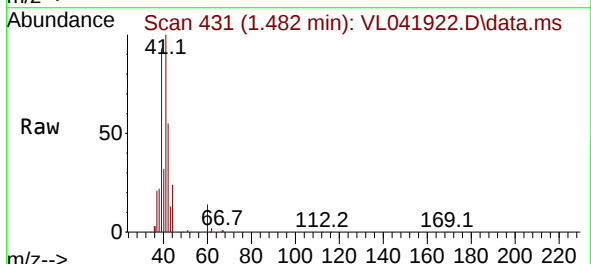
Instrument :
 MSVOA_L
 ClientSampleId :

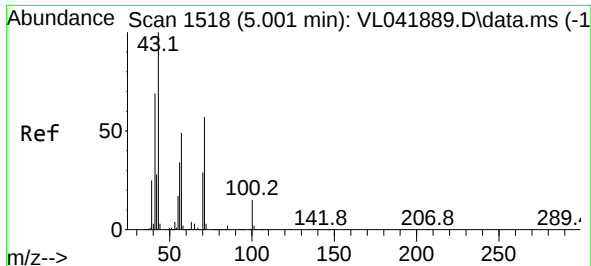
Tgt Ion: 85 Resp: 3508
 Ion Ratio Lower Upper
 85 100
 135 1.5 50.0 75.0#



#9
 Propene
 Concen: 1.113 ppbv
 RT: 1.482 min Scan# 431
 Delta R.T. -0.003 min
 Lab File: VL041922.D
 Acq: 20 Jan 2025 16:12

Tgt Ion: 41 Resp: 9289
 Ion Ratio Lower Upper
 41 100
 42 63.2 52.0 78.0

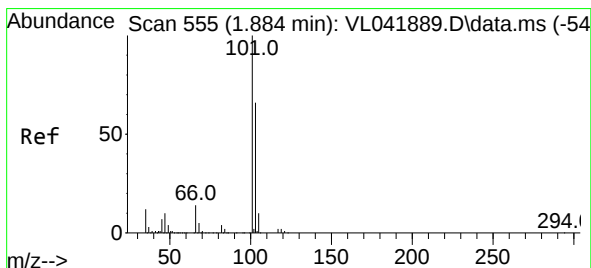
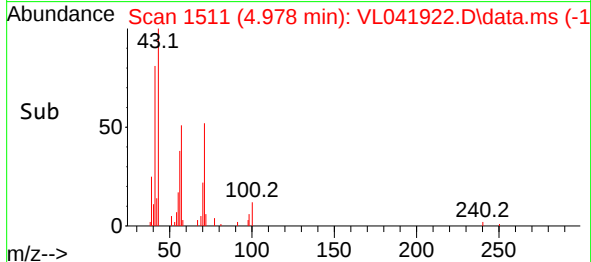
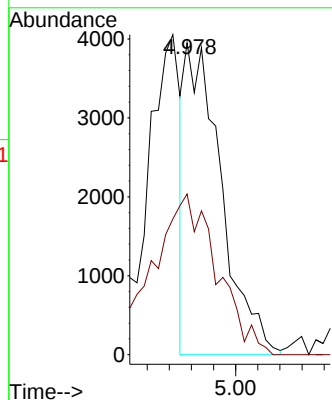
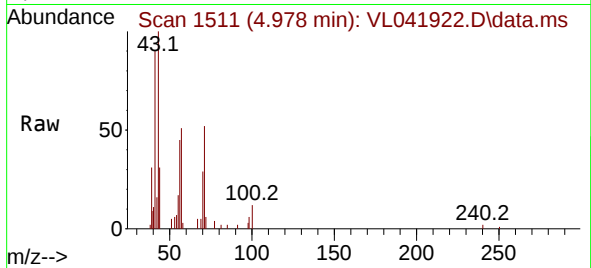




#10
Heptane
Concen: 0.201 ppbv
RT: 4.978 min Scan# 11
Delta R.T. -0.023 min
Lab File: VL041922.D
Acq: 20 Jan 2025 16:12

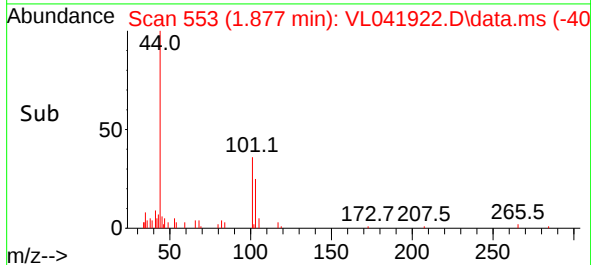
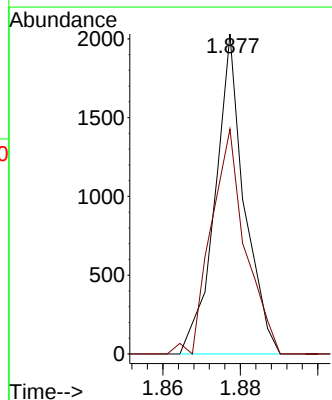
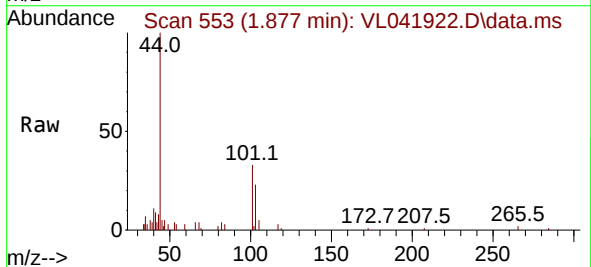
Instrument :
MSVOA_L
ClientSampleId :

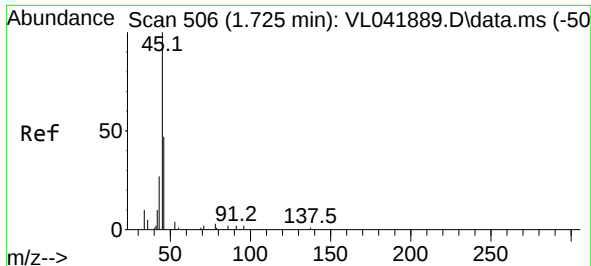
Tgt Ion: 43 Resp: 4490
Ion Ratio Lower Upper
43 100
57 93.8 41.0 61.4#



#11
Trichlorofluoromethane
Concen: 0.053 ppbv
RT: 1.877 min Scan# 553
Delta R.T. -0.007 min
Lab File: VL041922.D
Acq: 20 Jan 2025 16:12

Tgt Ion:101 Resp: 1065
Ion Ratio Lower Upper
101 100
103 70.3 53.1 79.7

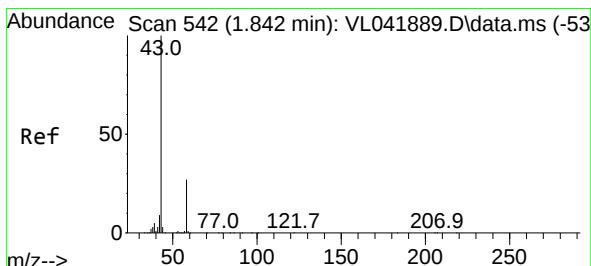
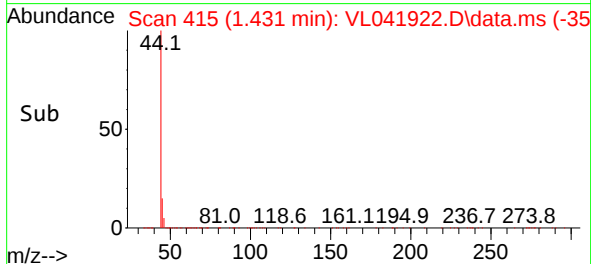
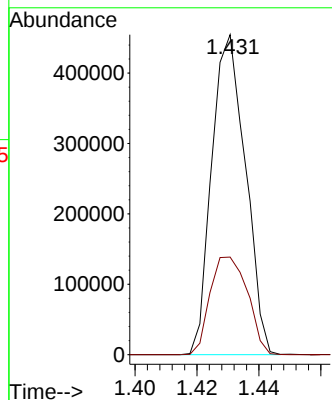
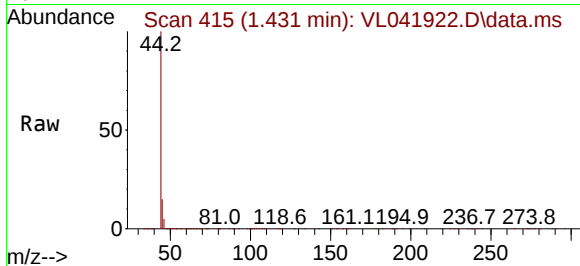




#13
 Ethanol
 Concen: 561.865 ppbv
 RT: 1.431 min Scan# 41
 Delta R.T. -0.295 min
 Lab File: VL041922.D
 Acq: 20 Jan 2025 16:12

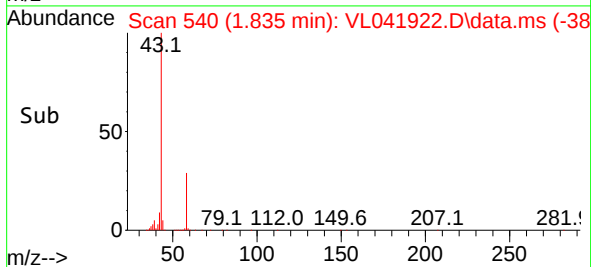
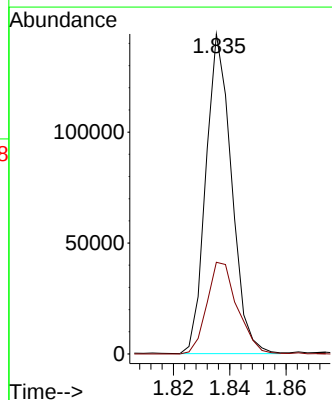
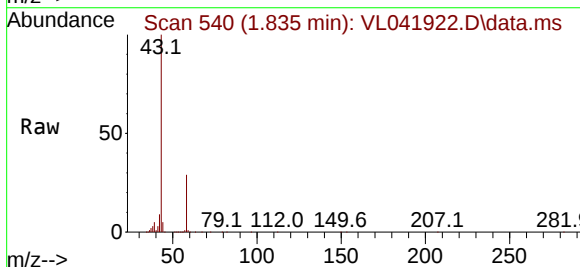
Instrument :
 MSVOA_L
 ClientSampleId :

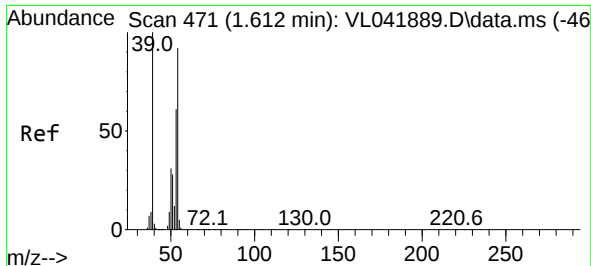
Tgt Ion: 45 Resp: 343515
 Ion Ratio Lower Upper
 45 100
 46 34.0 18.1 72.5



#15
 Acetone
 Concen: 5.355 ppbv
 RT: 1.835 min Scan# 540
 Delta R.T. -0.007 min
 Lab File: VL041922.D
 Acq: 20 Jan 2025 16:12

Tgt Ion: 43 Resp: 91335
 Ion Ratio Lower Upper
 43 100
 58 34.3 21.9 32.9#

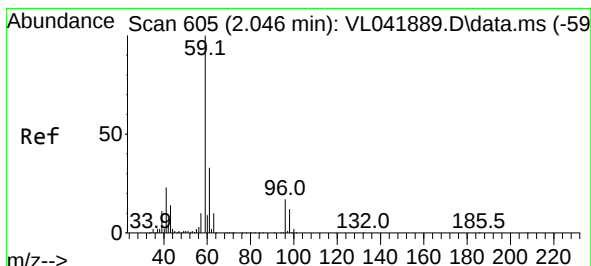
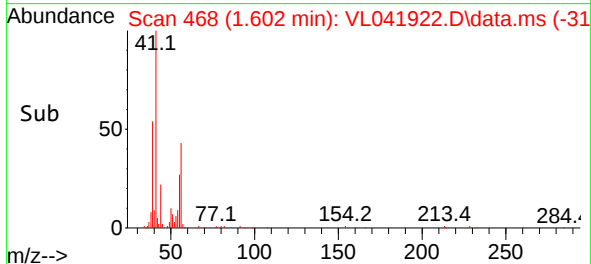
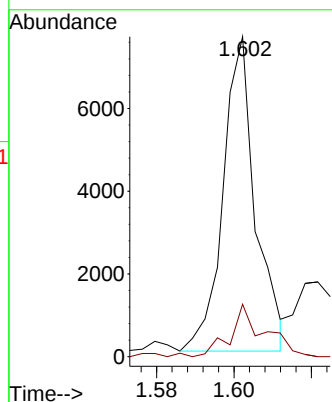
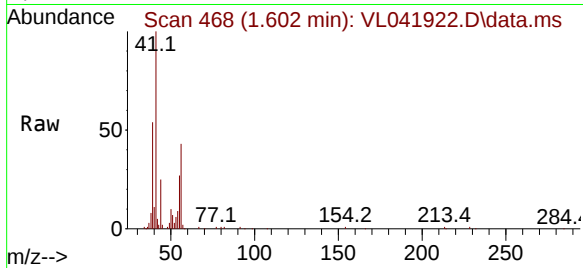




#16
1,3-Butadiene
Concen: 0.575 ppbv
RT: 1.602 min Scan# 41
Delta R.T. -0.010 min
Lab File: VL041922.D
Acq: 20 Jan 2025 16:12

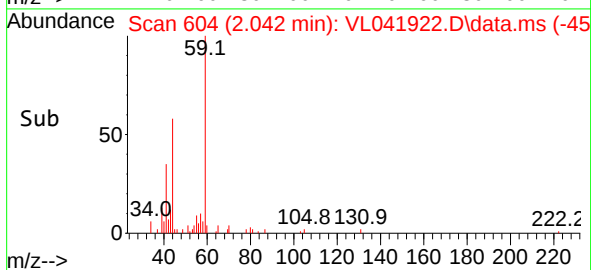
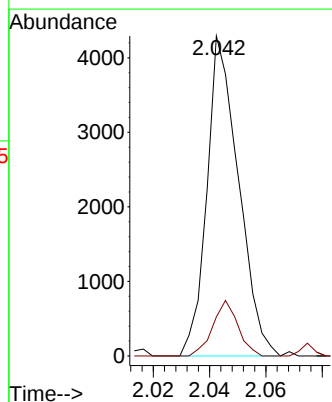
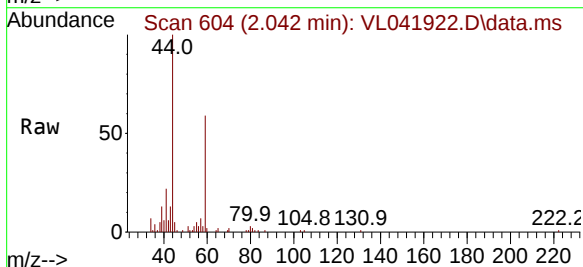
Instrument :
MSVOA_L
ClientSampleId :

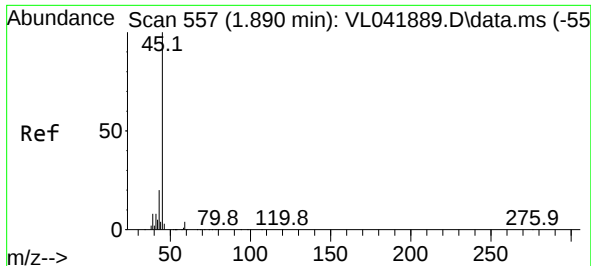
Tgt Ion: 39 Resp: 4404
Ion Ratio Lower Upper
39 100
54 18.5 61.6 92.4#



#17
tert-Butyl alcohol
Concen: 0.159 ppbv
RT: 2.042 min Scan# 604
Delta R.T. -0.003 min
Lab File: VL041922.D
Acq: 20 Jan 2025 16:12

Tgt Ion: 59 Resp: 3346
Ion Ratio Lower Upper
59 100
57 13.8 7.8 11.8#

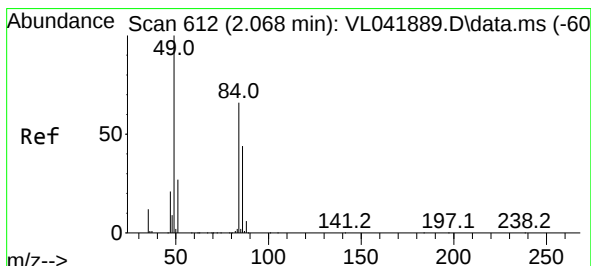
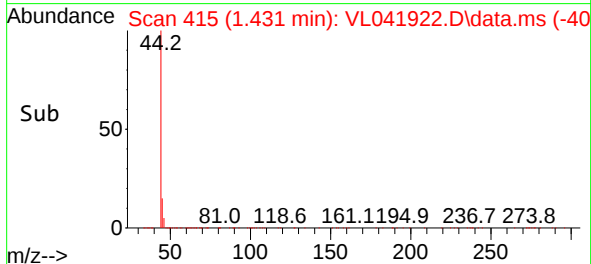
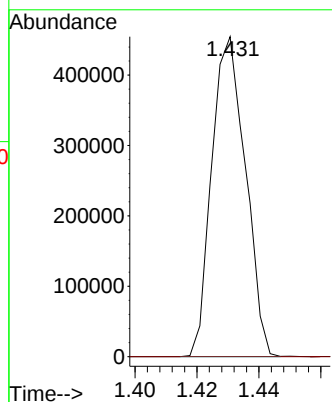
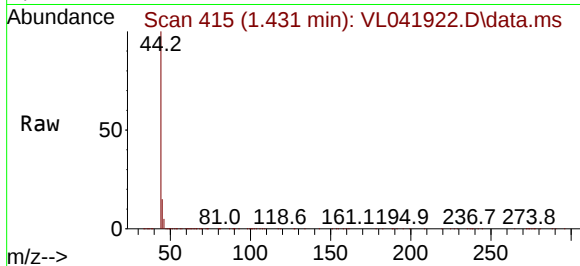




#19
Isopropyl Alcohol
Concen: 33.970 ppbv
RT: 1.431 min Scan# 415
Delta R.T. -0.460 min
Lab File: VL041922.D
Acq: 20 Jan 2025 16:12

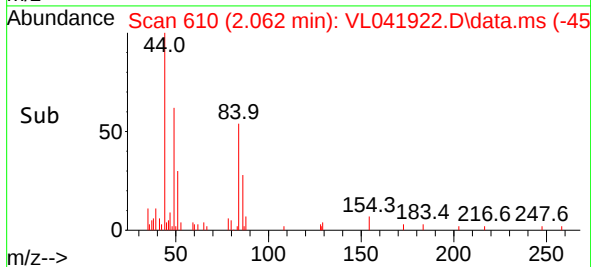
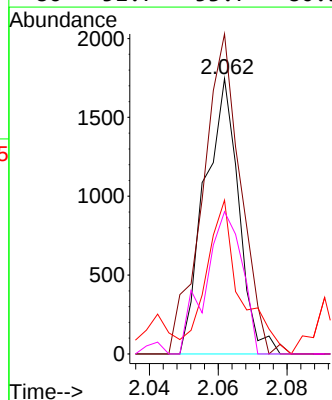
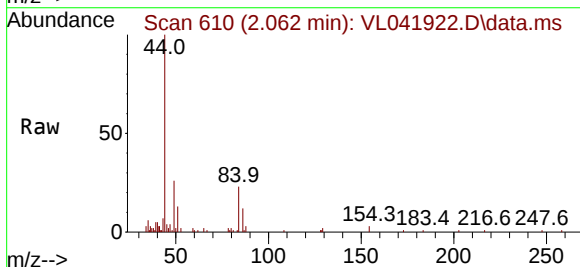
Instrument :
MSVOA_L
ClientSampleId :

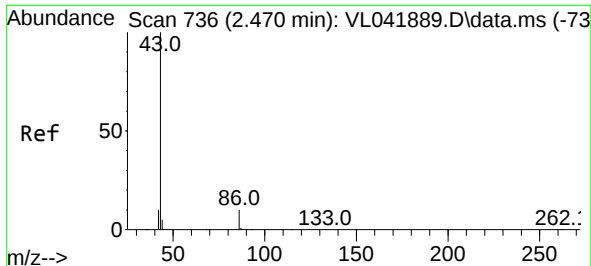
Tgt Ion: 45 Resp: 343515
Ion Ratio Lower Upper
45 100
58 0.0 35.0 52.6#



#20
Methylene Chloride
Concen: 0.178 ppbv
RT: 2.062 min Scan# 610
Delta R.T. -0.007 min
Lab File: VL041922.D
Acq: 20 Jan 2025 16:12

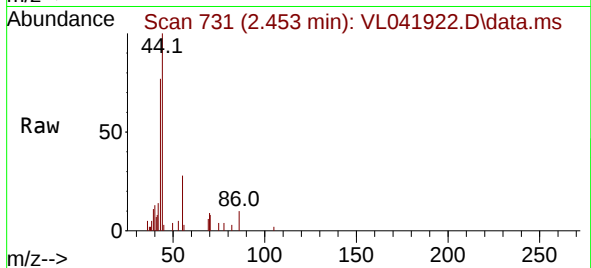
Tgt Ion: 84 Resp: 1200
Ion Ratio Lower Upper
84 100
49 112.7 123.1 184.7#
51 52.5 35.8 53.8
86 51.7 53.7 80.5#



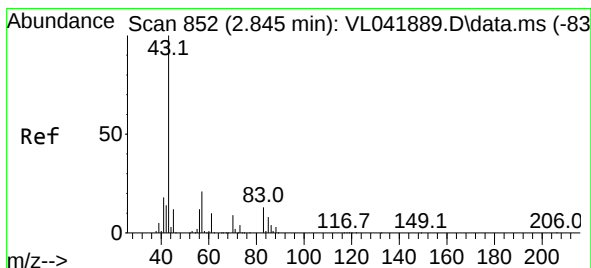
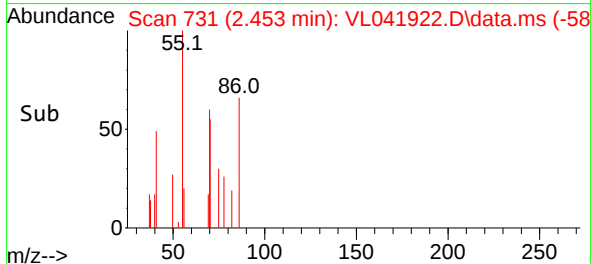
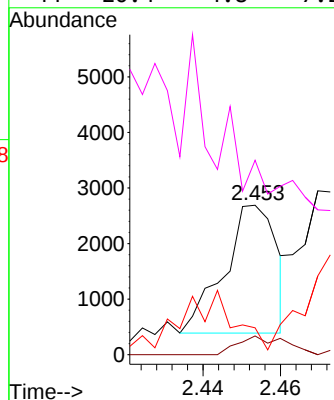


#23
 Vinyl Acetate
 Concen: 0.256 ppbv
 RT: 2.453 min Scan# 71
 Delta R.T. -0.016 min
 Lab File: VL041922.D
 Acq: 20 Jan 2025 16:12

Instrument :
 MSVOA_L
 ClientSampleId :

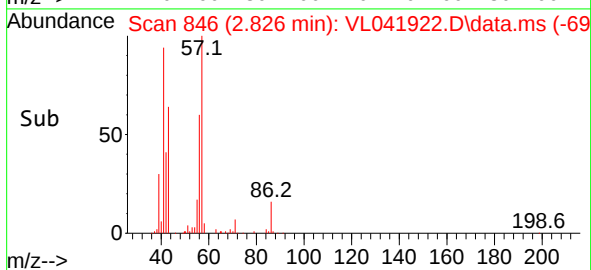
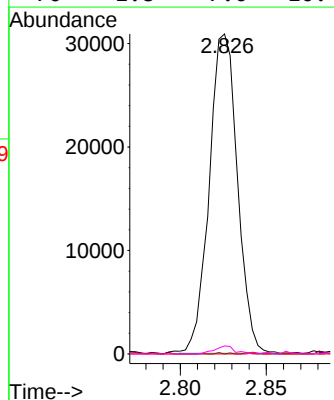
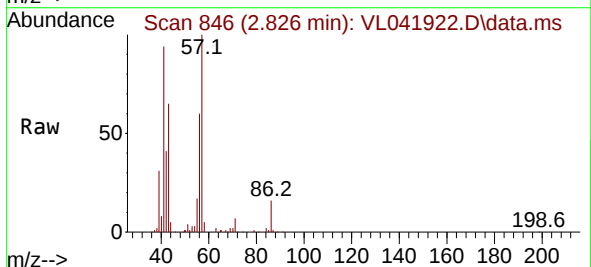


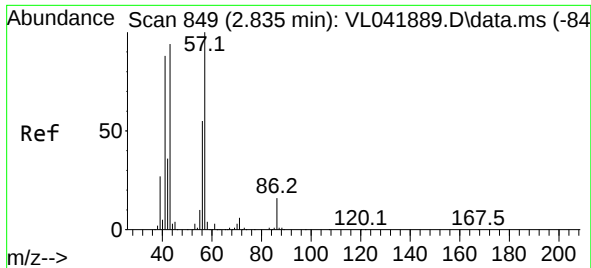
Tgt Ion:	43	Resp:	2166
Ion	Ratio	Lower	Upper
43	100		
86	14.7	6.2	9.4#
42	0.7	8.5	12.7#
44	20.4	4.8	7.2#



#25
 Ethyl Acetate
 Concen: 0.762 ppbv
 RT: 2.826 min Scan# 846
 Delta R.T. -0.020 min
 Lab File: VL041922.D
 Acq: 20 Jan 2025 16:12

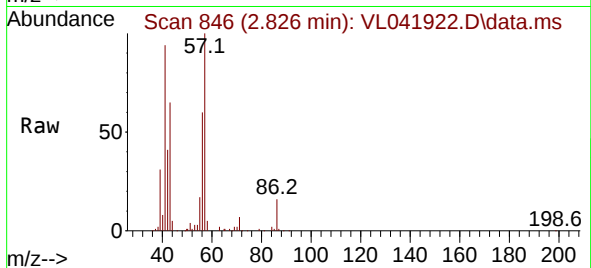
Tgt Ion:	43	Resp:	35030
Ion	Ratio	Lower	Upper
43	100		
45	0.2	8.2	12.2#
61	0.2	7.4	11.0#
70	1.8	7.0	10.4#



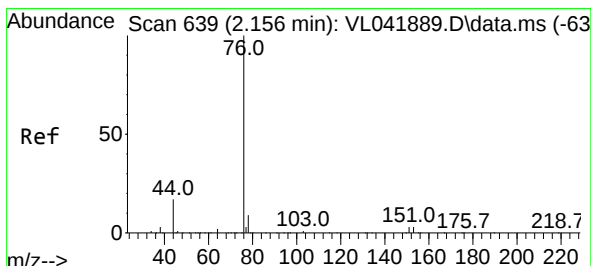
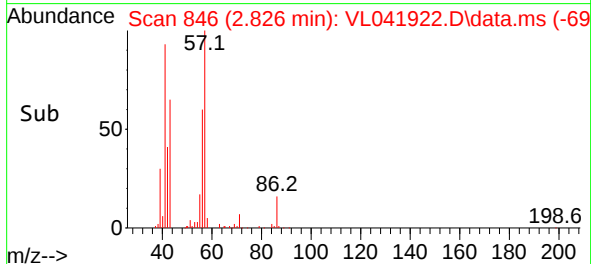
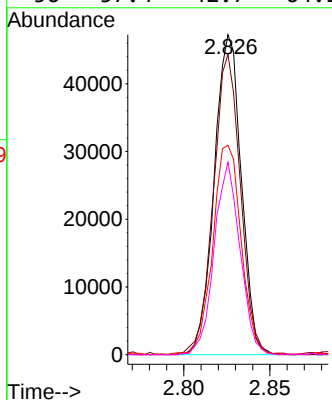


#26
Hexane
Concen: 2.840 ppbv
RT: 2.826 min Scan# 849
Delta R.T. -0.010 min
Lab File: VL041922.D
Acq: 20 Jan 2025 16:12

Instrument :
MSVOA_L
ClientSampleId :

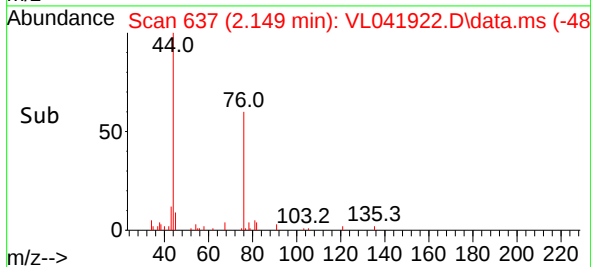
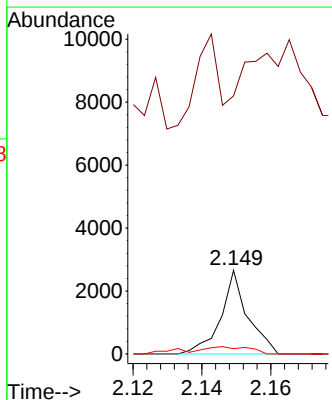
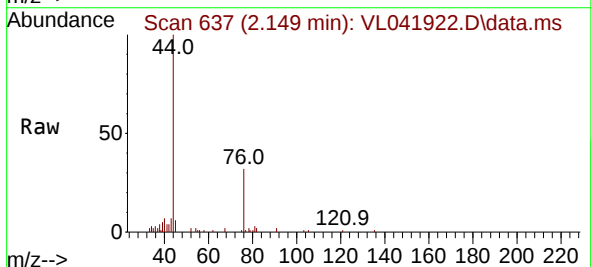


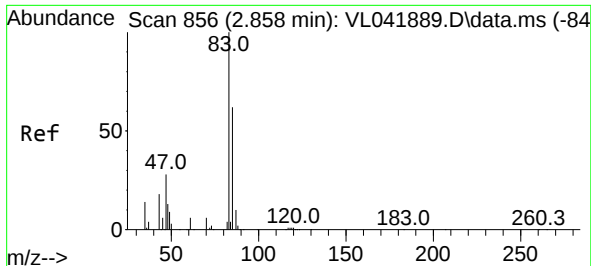
Tgt Ion: 57 Resp: 51661
Ion Ratio Lower Upper
57 100
41 94.0 73.8 110.8
43 69.1 197.3 295.9#
56 57.4 42.7 64.1



#27
Carbon Disulfide
Concen: 0.080 ppbv
RT: 2.149 min Scan# 637
Delta R.T. -0.007 min
Lab File: VL041922.D
Acq: 20 Jan 2025 16:12

Tgt Ion: 76 Resp: 1441
Ion Ratio Lower Upper
76 100
44 1142.5 15.4 23.0#
78 20.1 9.3 13.9#





#29

Chloroform

Concen: 0.110 ppbv

RT: 2.852 min Scan# 81

Delta R.T. -0.007 min

Lab File: VL041922.D

Acq: 20 Jan 2025 16:12

Instrument :

MSVOA_L

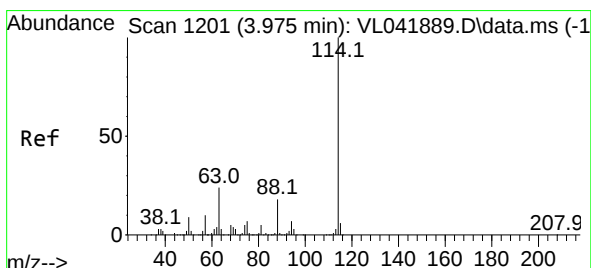
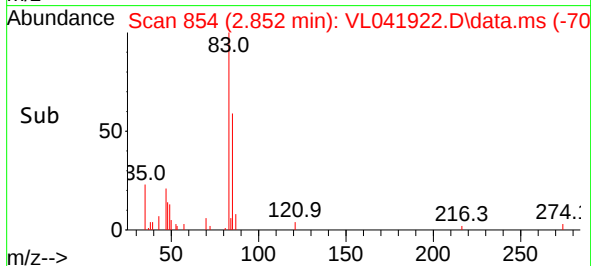
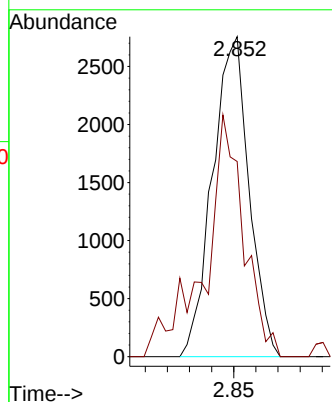
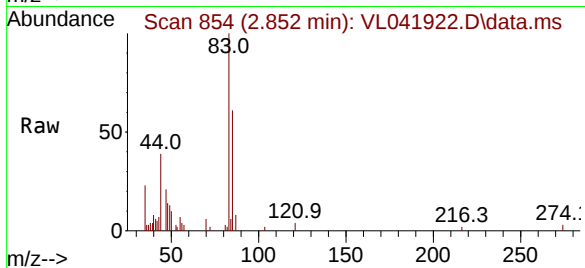
ClientSampleId :

Tgt Ion: 83 Resp: 3166

Ion Ratio Lower Upper

83 100

85 61.0 50.1 75.1



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.955 min Scan# 1195

Delta R.T. -0.020 min

Lab File: VL041922.D

Acq: 20 Jan 2025 16:12

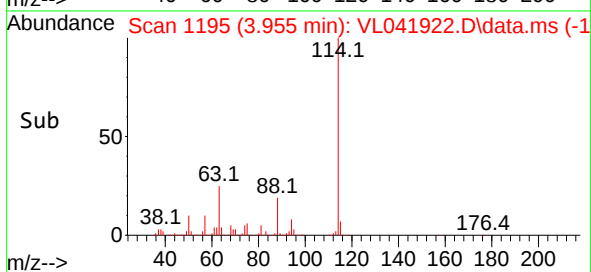
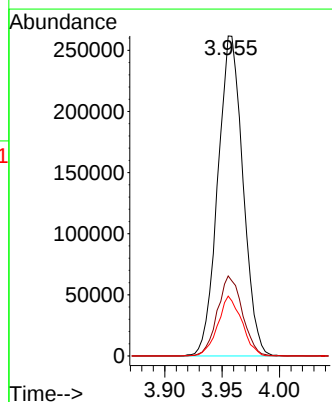
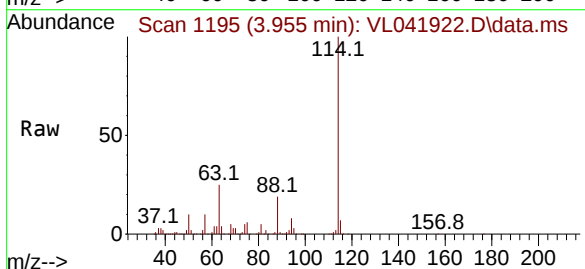
Tgt Ion: 114 Resp: 398544

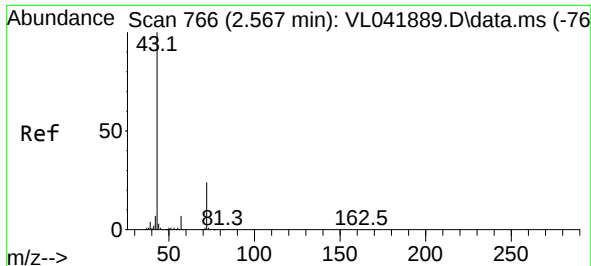
Ion Ratio Lower Upper

114 100

63 24.8 19.8 29.6

88 17.9 14.4 21.6

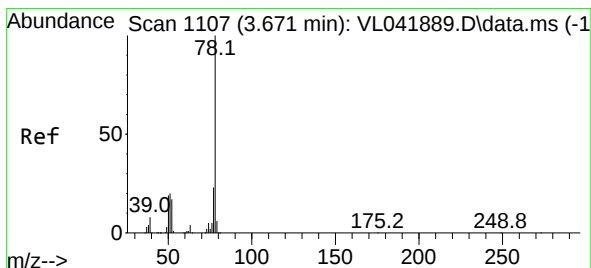
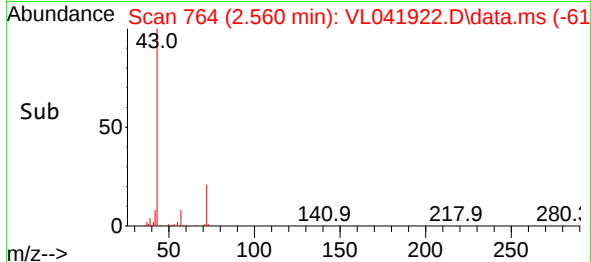
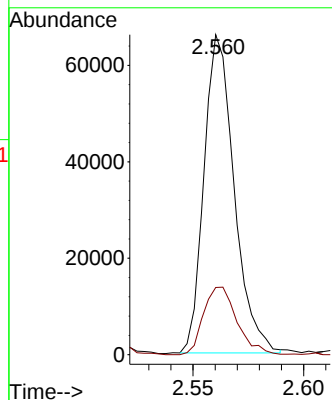
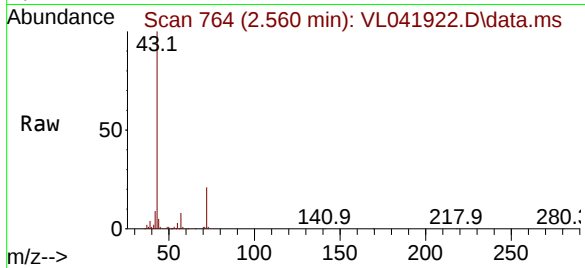




#34
2-Butanone
Concen: 2.473 ppbv
RT: 2.560 min Scan# 764
Delta R.T. -0.007 min
Lab File: VL041922.D
Acq: 20 Jan 2025 16:12

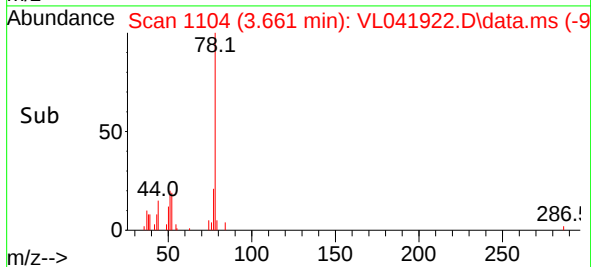
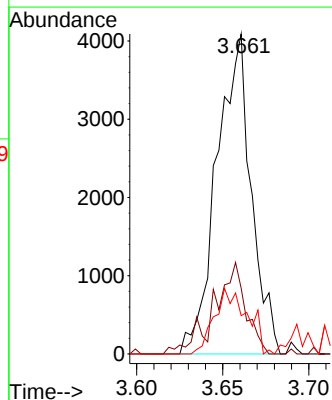
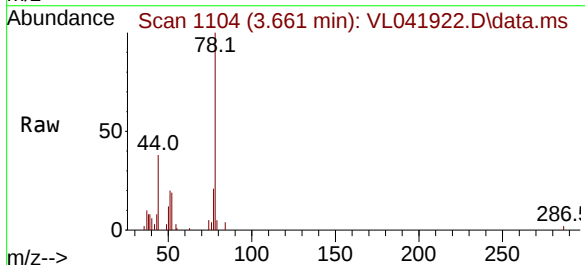
Instrument :
MSVOA_L
ClientSampleId :

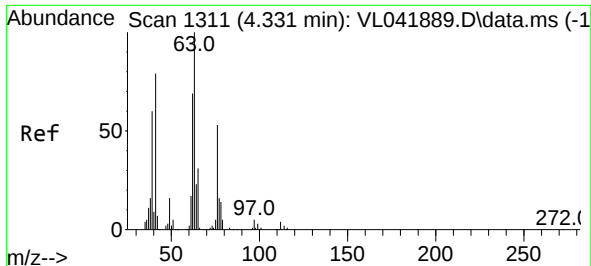
Tgt Ion: 43 Resp: 62688
Ion Ratio Lower Upper
43 100
72 23.7 18.6 28.0



#36
Benzene
Concen: 0.156 ppbv
RT: 3.661 min Scan# 1104
Delta R.T. -0.010 min
Lab File: VL041922.D
Acq: 20 Jan 2025 16:12

Tgt Ion: 78 Resp: 5690
Ion Ratio Lower Upper
78 100
77 20.6 18.1 27.1
50 11.9 15.2 22.8#





#39

1,2-Dichloropropane

Concen: 7.694 ppbv

RT: 3.955 min Scan# 1195

Delta R.T. -0.376 min

Lab File: VL041922.D

Acq: 20 Jan 2025 16:12

Instrument :

MSVOA_L

ClientSampleId :

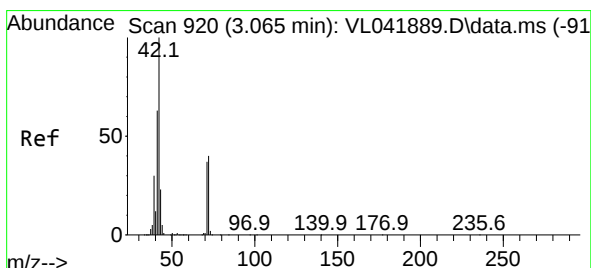
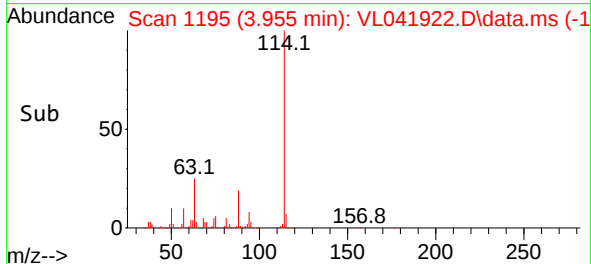
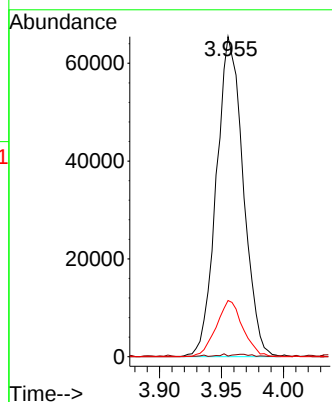
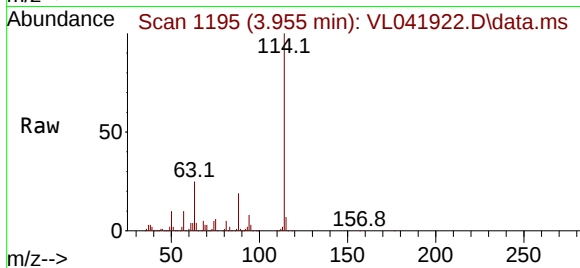
Tgt Ion: 63 Resp: 98661

Ion Ratio Lower Upper

63 100

41 0.1 63.7 95.5#

62 17.6 55.4 83.2#



#41

Tetrahydrofuran

Concen: 0.031 ppbv

RT: 3.085 min Scan# 926

Delta R.T. 0.019 min

Lab File: VL041922.D

Acq: 20 Jan 2025 16:12

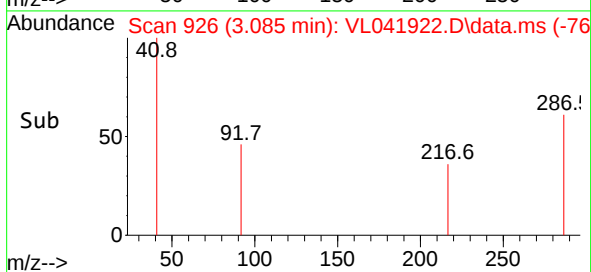
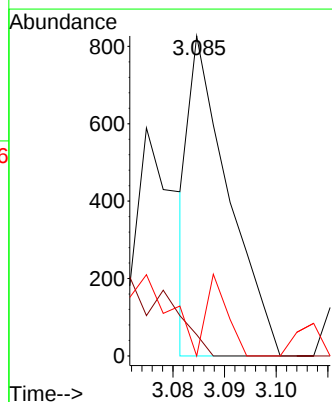
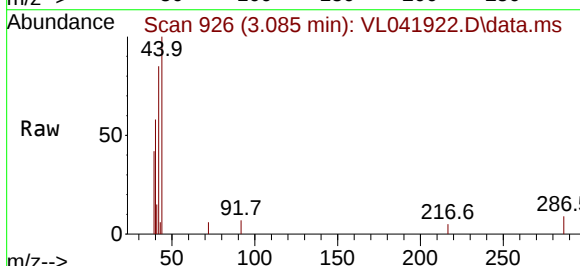
Tgt Ion: 42 Resp: 431

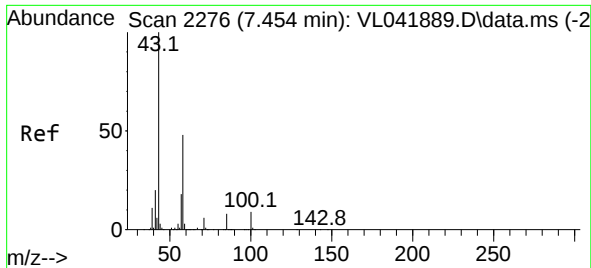
Ion Ratio Lower Upper

42 100

72 0.0 32.3 48.5#

71 47.3 29.9 44.9#

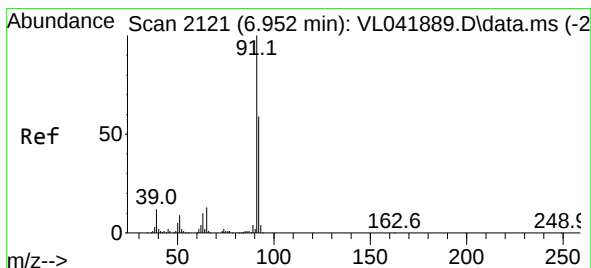
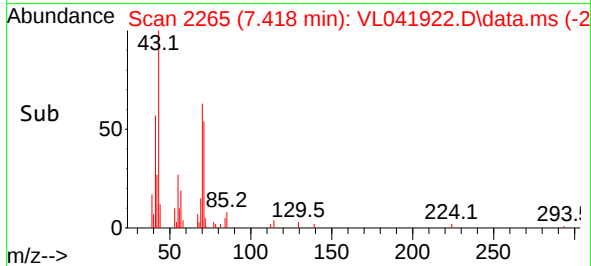
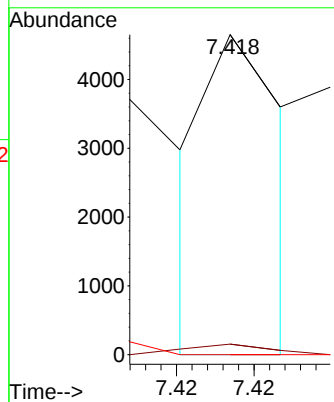
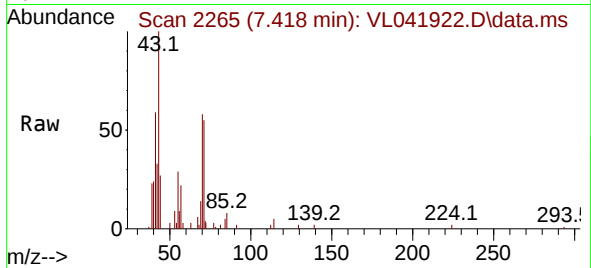




#51
2-Hexanone
Concen: 0.060 ppbv
RT: 7.418 min Scan# 2113
Delta R.T. -0.036 min
Lab File: VL041922.D
Acq: 20 Jan 2025 16:12

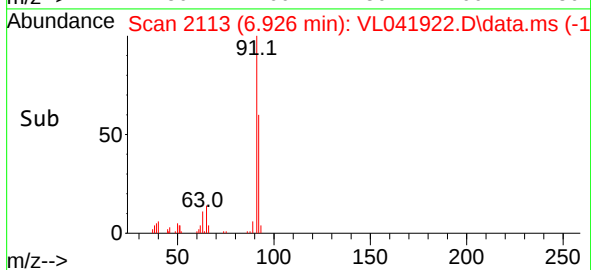
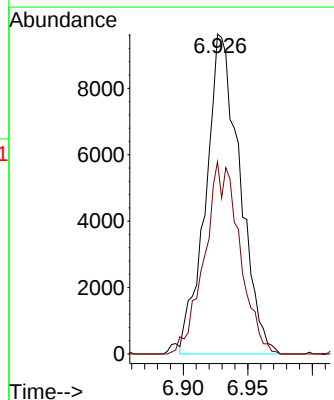
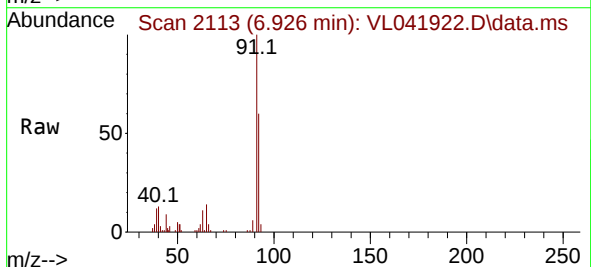
Instrument :
MSVOA_L
ClientSampleId :

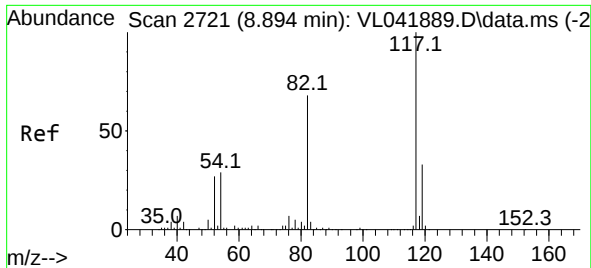
Tgt Ion: 43 Resp: 1601
Ion Ratio Lower Upper
43 100
58 0.0 40.4 60.6#
98 0.0 0.2 0.2#



#53
Toluene
Concen: 0.445 ppbv
RT: 6.926 min Scan# 2113
Delta R.T. -0.026 min
Lab File: VL041922.D
Acq: 20 Jan 2025 16:12

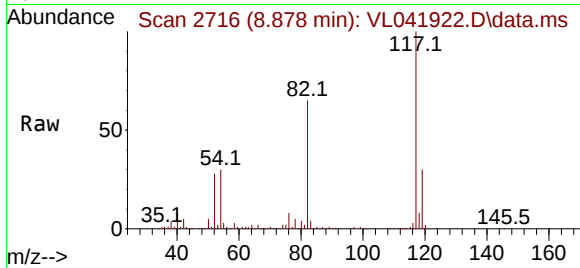
Tgt Ion: 91 Resp: 17721
Ion Ratio Lower Upper
91 100
92 61.9 47.4 71.0



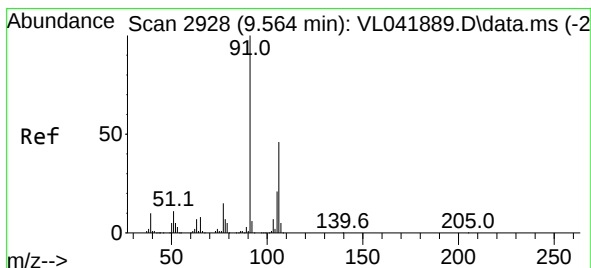
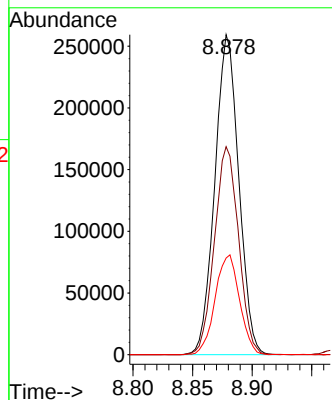
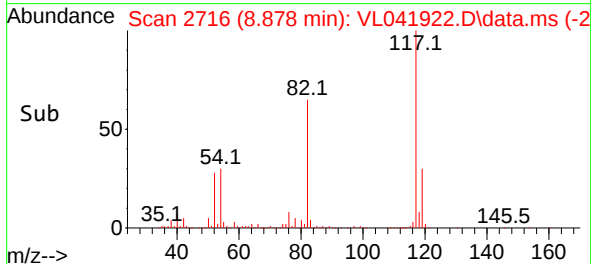


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.878 min Scan# 21
Delta R.T. -0.016 min
Lab File: VL041922.D
Acq: 20 Jan 2025 16:12

Instrument :
MSVOA_L
ClientSampleId :

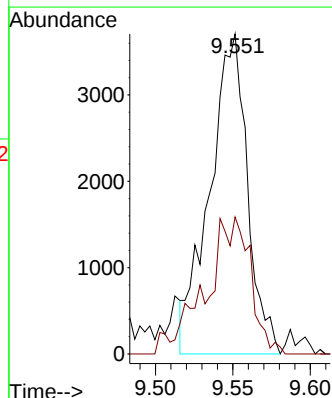
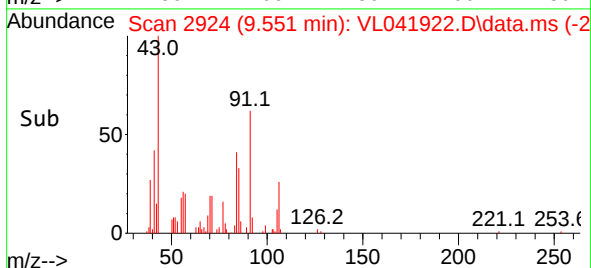
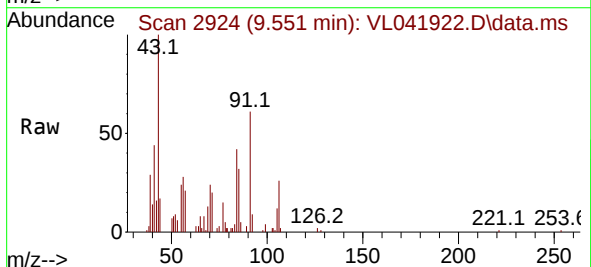


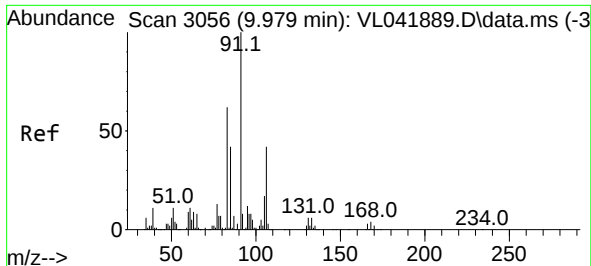
Tgt Ion:117 Resp: 362259
Ion Ratio Lower Upper
117 100
82 65.5 54.2 81.4
119 31.9 25.0 37.6



#59
m/p-Xylene
Concen: 0.138 ppbv
RT: 9.551 min Scan# 2924
Delta R.T. -0.013 min
Lab File: VL041922.D
Acq: 20 Jan 2025 16:12

Tgt Ion: 91 Resp: 6282
Ion Ratio Lower Upper
91 100
106 51.4 36.0 54.0





#60

o-Xylene

Concen: 0.155 ppbv

RT: 9.959 min Scan# 3050

Delta R.T. -0.020 min

Lab File: VL041922.D

Acq: 20 Jan 2025 16:12

Instrument :

MSVOA_L

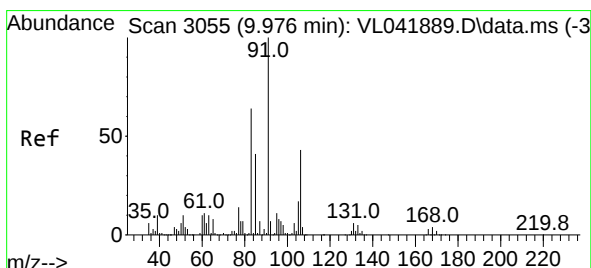
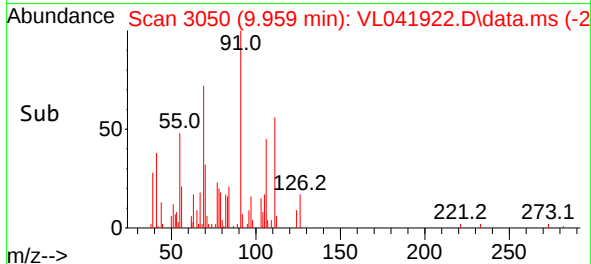
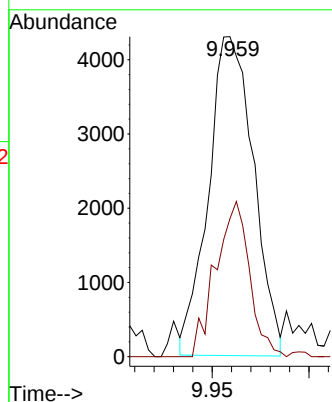
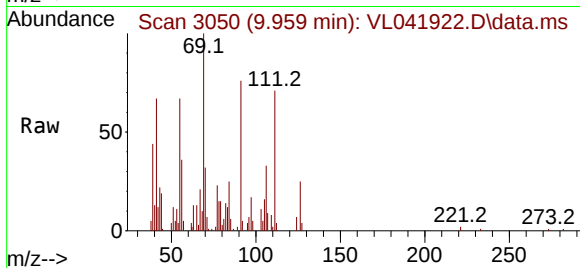
ClientSampleId :

Tgt Ion: 91 Resp: 6971

Ion Ratio Lower Upper

91 100

106 36.9 21.3 63.9



#63

1,1,2,2-Tetrachloroethane

Concen: 0.061 ppbv

RT: 9.946 min Scan# 3046

Delta R.T. -0.029 min

Lab File: VL041922.D

Acq: 20 Jan 2025 16:12

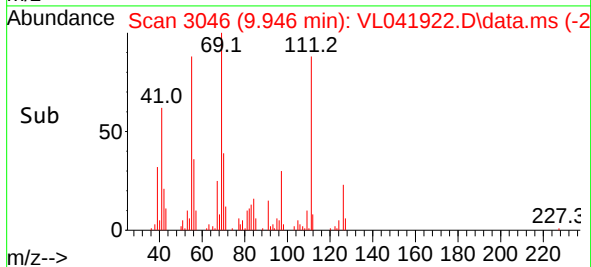
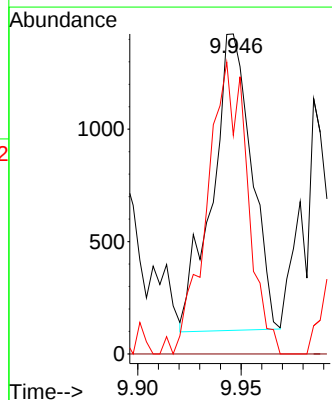
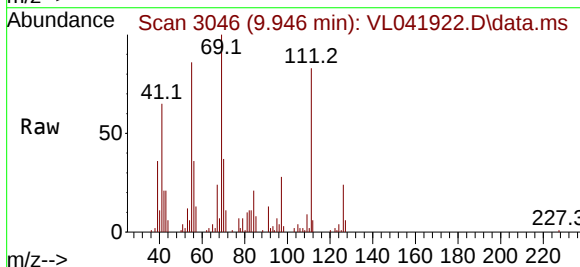
Tgt Ion: 83 Resp: 1752

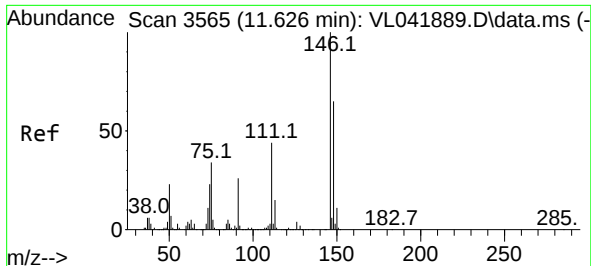
Ion Ratio Lower Upper

83 100

131 0.0 4.8 14.4#

85 100.9 32.4 97.2#

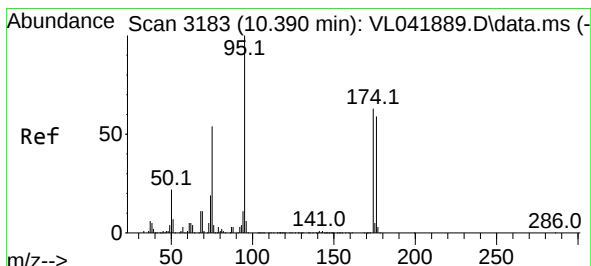
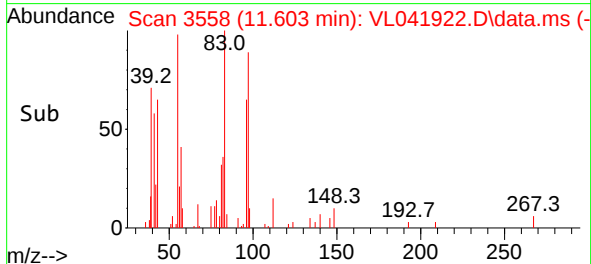
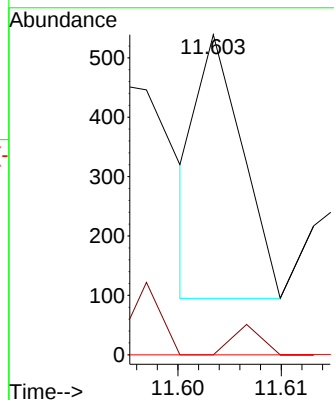
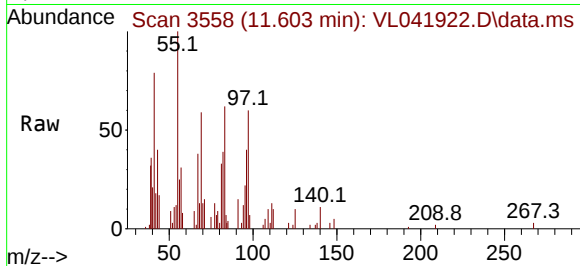




#66
Benzyl Chloride
Concen: 0.033 ppbv
RT: 11.603 min Scan# 3155
Delta R.T. -0.023 min
Lab File: VL041922.D
Acq: 20 Jan 2025 16:12

Instrument :
MSVOA_L
ClientSampleId :

Tgt Ion: 91 Resp: 131
Ion Ratio Lower Upper
91 100
126 0.0 14.1 21.1#
128 0.0 4.3 6.5#



#68
1-Bromo-4-Fluorobenzene
Concen: 10.295 ppbv
RT: 10.374 min Scan# 3178
Delta R.T. -0.016 min
Lab File: VL041922.D
Acq: 20 Jan 2025 16:12

Tgt Ion: 95 Resp: 293749
Ion Ratio Lower Upper
95 100
174 59.4 49.0 73.4
175 4.7 3.8 5.8

