

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL101123\
 Data File : VL040767.D
 Acq On : 11 Oct 2023 22:28
 Operator : SY/MD
 Sample : 04827-01DUP
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1DUP

Quant Time: Oct 12 00:29:06 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101123AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Oct 12 00:21:08 2023
 Response via : Initial Calibration

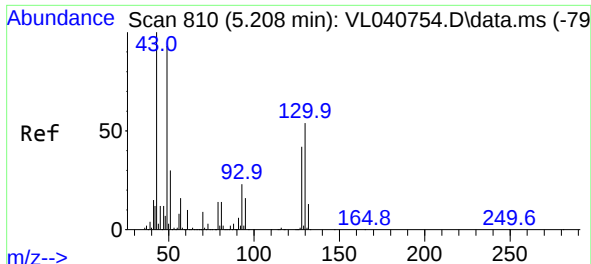
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	5.211	49	890640	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.668	114	2503660	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.474	117	2313517	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.780	95	1701612	9.996	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.000%
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	2.764	85	88758	0.566	ppbv	96
3) Chlorodifluoromethane	2.710	51	107948	0.825	ppbv #	88
4) Chloromethane	2.851	50	24493	0.474	ppbv	98
9) Propene	2.902	41	166713	3.429	ppbv	99
10) Heptane	7.594	43	8958	0.073	ppbv #	27
11) Trichlorofluoromethane	3.591	101	31904	0.264	ppbv	92
12) 1,1,2-Trichlorotrifluo...	4.092	101	6962	0.081	ppbv #	81
13) Ethanol	3.269	45	787967	71.800	ppbv	98
15) Acetone	3.494	43	541987	5.886	ppbv	99
16) 1,3-Butadiene	3.009	39	1617	0.033	ppbv #	50
17) tert-Butyl alcohol	3.918	59	8621	0.091	ppbv #	71
19) Isopropyl Alcohol	3.610	45	190873	3.220	ppbv #	39
20) Methylene Chloride	3.960	84	444189	11.582	ppbv	97
23) Vinyl Acetate	4.636	43	11539	0.098	ppbv #	42
25) Ethyl Acetate	5.230	43	329745	1.635	ppbv #	80
26) Hexane	5.230	57	435411	4.722	ppbv #	43
29) Chloroform	5.291	83	9013	0.068	ppbv	97
30) Cyclohexane	6.623	84	2497	0.032	ppbv #	1
34) 2-Butanone	4.809	43	41760	0.368	ppbv #	88
35) Carbon Tetrachloride	6.510	117	11373	0.081	ppbv #	65
36) Benzene	6.381	78	54251	0.282	ppbv	99
39) 1,2-Dichloropropane	6.664	63	580724	7.719	ppbv #	26
41) Tetrahydrofuran	5.234	42	158811	2.024	ppbv #	50
44) 2,2,4-Trimethylpentane	7.336	57	18824	0.058	ppbv #	16
53) Toluene	9.227	91	206900	0.903	ppbv	94
58) Ethyl Benzene	12.095	91	17613	0.060	ppbv	97
60) o-Xylene	13.060	91	10496	0.046	ppbv #	1
61) Styrene	12.902	104	31670	0.250	ppbv	91
74) 1,2,4-Trimethylbenzene	16.108	105	30875	0.120	ppbv #	72

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

Quant Time: Oct 12 00:29:06 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101123AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Thu Oct 12 00:21:08 2023
Response via : Initial Calibration

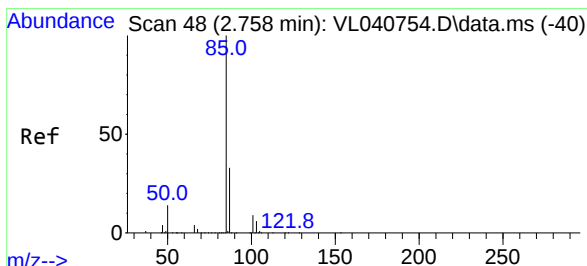
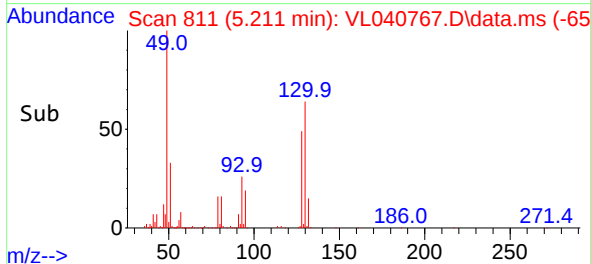
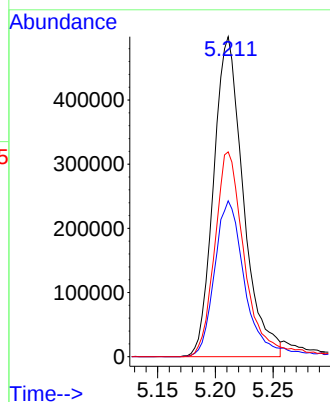
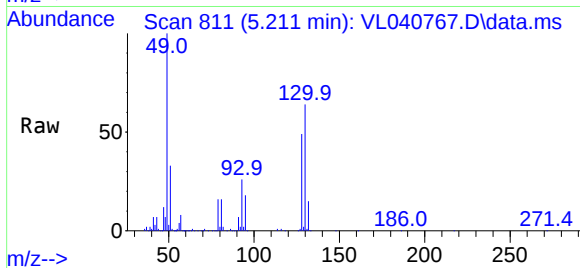




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.211 min Scan# 81
Delta R.T. 0.003 min
Lab File: VL040767.D
Acq: 11 Oct 2023 22:28

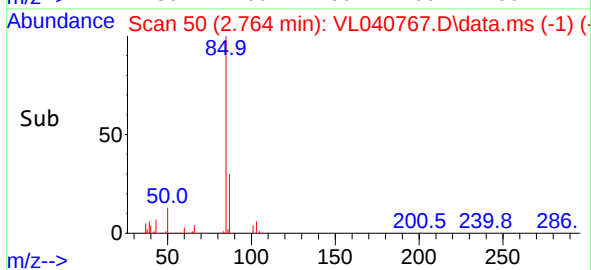
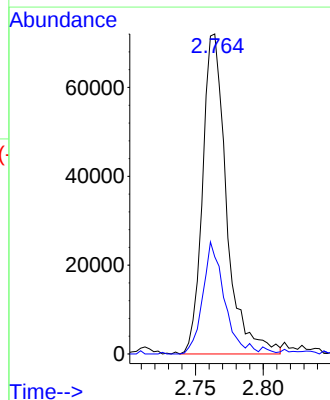
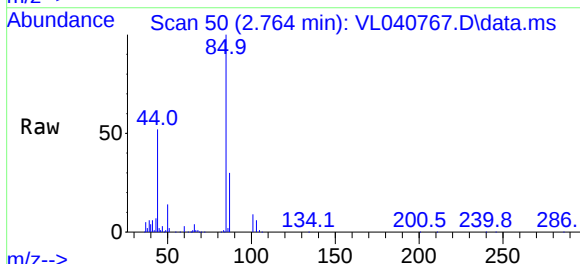
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

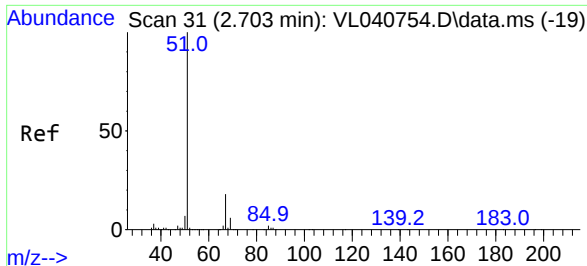
Tgt Ion: 49 Resp: 890640
Ion Ratio Lower Upper
49 100
128 51.9 23.9 71.7
130 65.9 30.7 92.1



#2
Dichlorodifluoromethane
Concen: 0.566 ppbv
RT: 2.764 min Scan# 50
Delta R.T. 0.006 min
Lab File: VL040767.D
Acq: 11 Oct 2023 22:28

Tgt Ion: 85 Resp: 88758
Ion Ratio Lower Upper
85 100
87 30.4 26.0 39.0

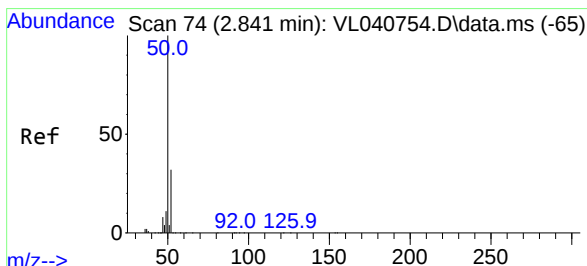
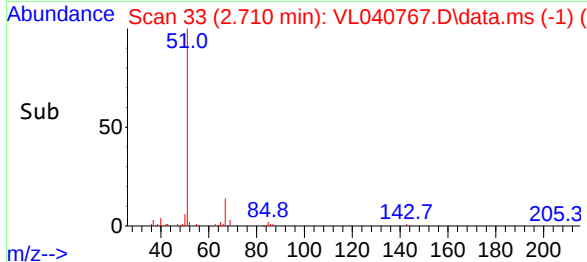
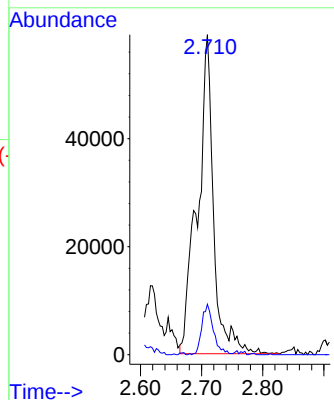
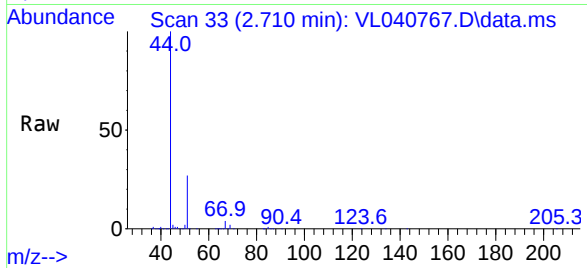




#3
Chlorodifluoromethane
Concen: 0.825 ppbv
RT: 2.710 min Scan# 31
Delta R.T. 0.006 min
Lab File: VL040767.D
Acq: 11 Oct 2023 22:28

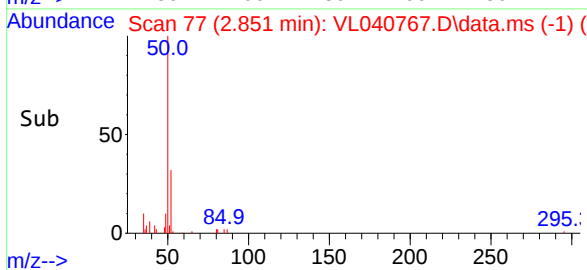
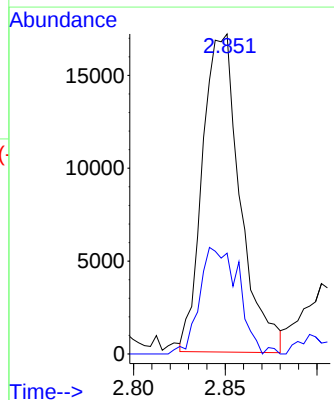
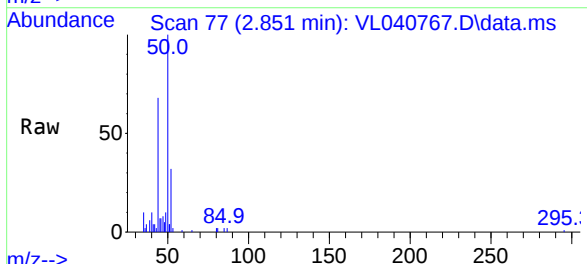
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

Tgt Ion: 51 Resp: 107948
Ion Ratio Lower Upper
51 100
67 11.8 13.8 20.6#

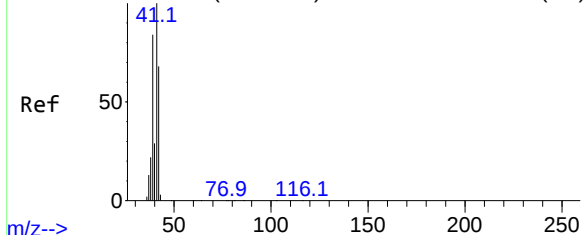


#4
Chloromethane
Concen: 0.474 ppbv
RT: 2.851 min Scan# 77
Delta R.T. 0.010 min
Lab File: VL040767.D
Acq: 11 Oct 2023 22:28

Tgt Ion: 50 Resp: 24493
Ion Ratio Lower Upper
50 100
52 32.6 25.3 37.9



Abundance Scan 37 (2.722 min): VL040754.D\data.ms (-27)



#9

Propene

Concen: 3.429 ppbv

RT: 2.902 min Scan# 91

Delta R.T. 0.180 min

Lab File: VL040767.D

Acq: 11 Oct 2023 22:28

Instrument :

MSVOA_L

ClientSampleId :

IA1DUP

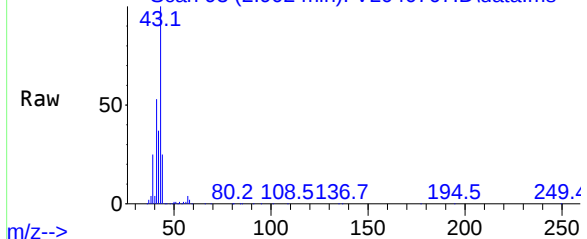
Tgt Ion: 41 Resp: 166713

Ion Ratio Lower Upper

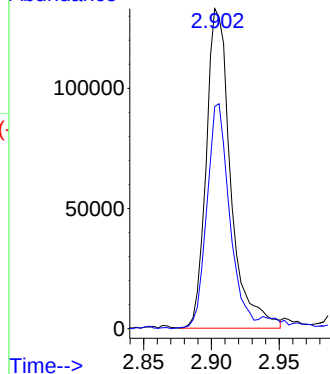
41 100

42 72.0 57.1 85.7

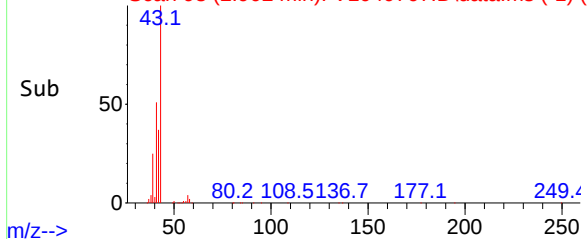
Abundance Scan 93 (2.902 min): VL040767.D\data.ms



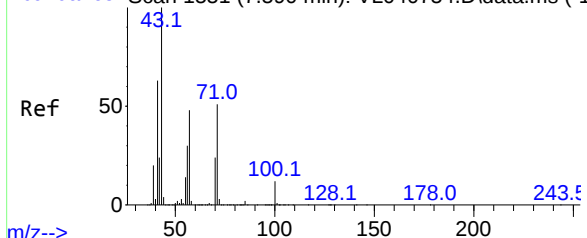
Abundance



Abundance Scan 93 (2.902 min): VL040767.D\data.ms (-1)



Abundance Scan 1551 (7.590 min): VL040754.D\data.ms (-1)



#10

Heptane

Concen: 0.073 ppbv

RT: 7.594 min Scan# 1552

Delta R.T. 0.003 min

Lab File: VL040767.D

Acq: 11 Oct 2023 22:28

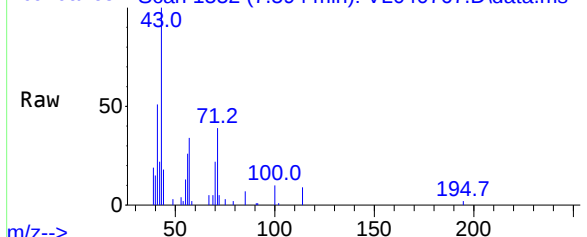
Tgt Ion: 43 Resp: 8958

Ion Ratio Lower Upper

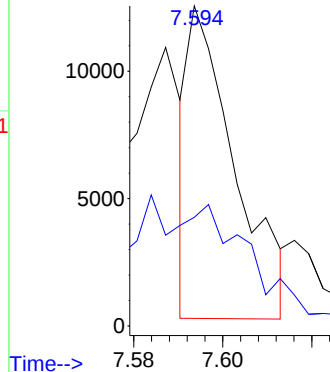
43 100

57 0.0 40.0 60.0#

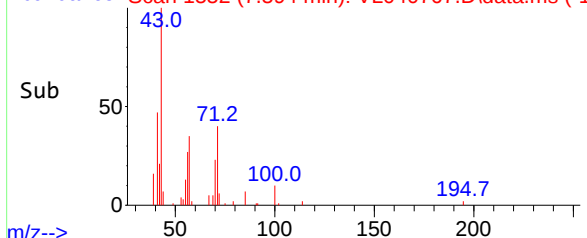
Abundance Scan 1552 (7.594 min): VL040767.D\data.ms

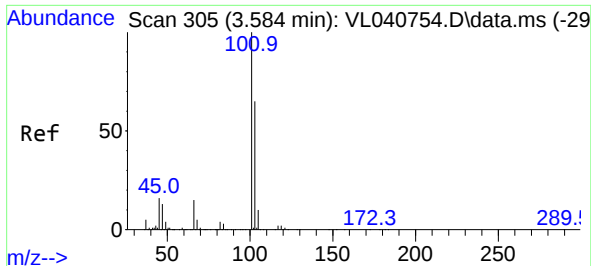


Abundance



Abundance Scan 1552 (7.594 min): VL040767.D\data.ms (-1)

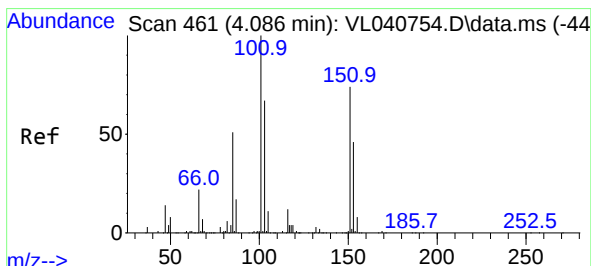
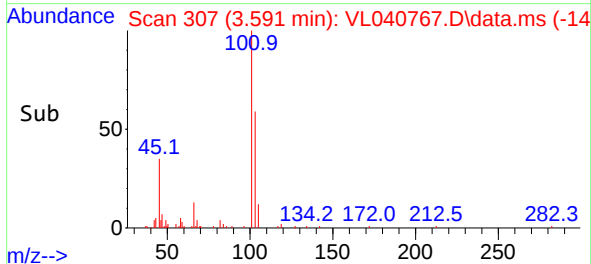
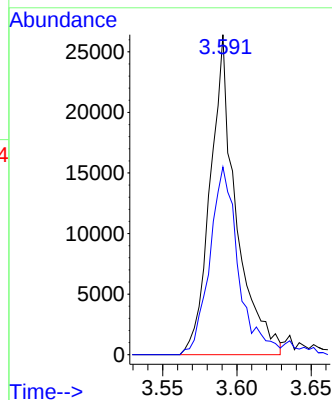
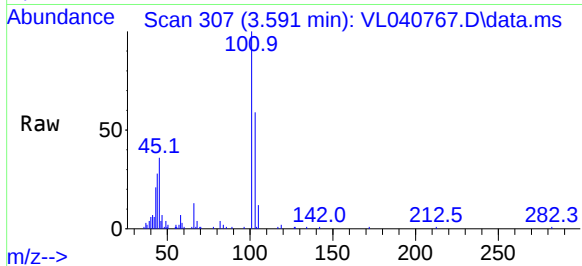




#11
Trichlorofluoromethane
Concen: 0.264 ppbv
RT: 3.591 min Scan# 305
Delta R.T. 0.006 min
Lab File: VL040767.D
Acq: 11 Oct 2023 22:28

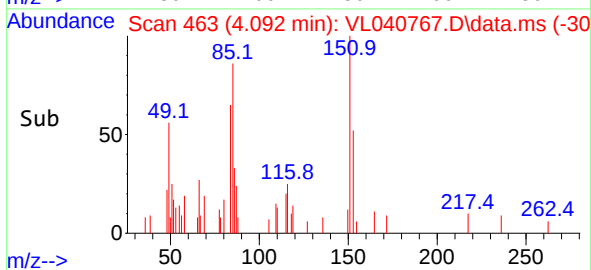
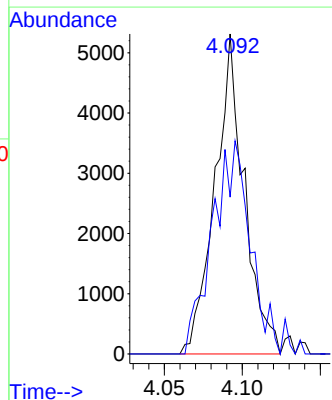
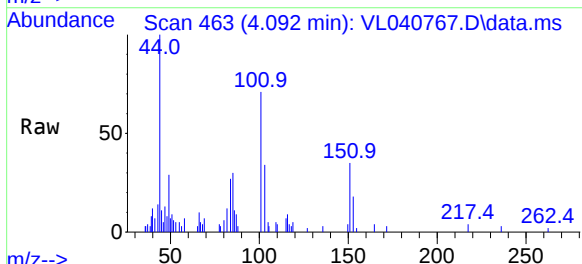
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

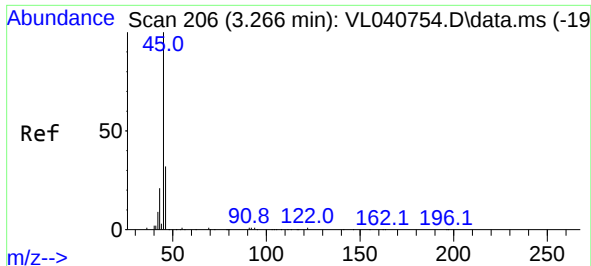
Tgt Ion:101 Resp: 31904
Ion Ratio Lower Upper
101 100
103 58.7 52.2 78.2



#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.081 ppbv
RT: 4.092 min Scan# 463
Delta R.T. 0.006 min
Lab File: VL040767.D
Acq: 11 Oct 2023 22:28

Tgt Ion:101 Resp: 6962
Ion Ratio Lower Upper
101 100
151 88.1 58.1 87.1#

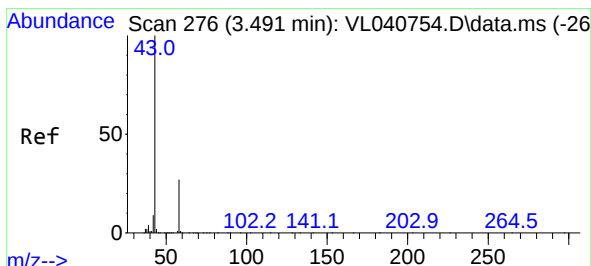
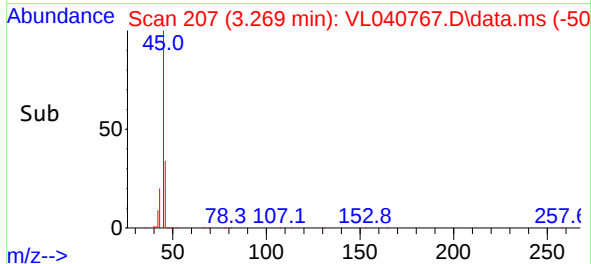
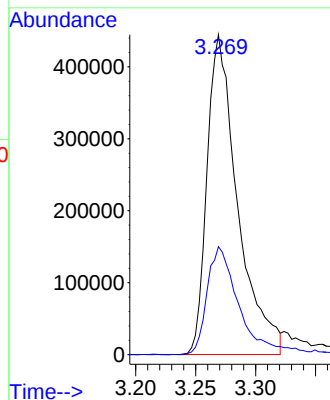
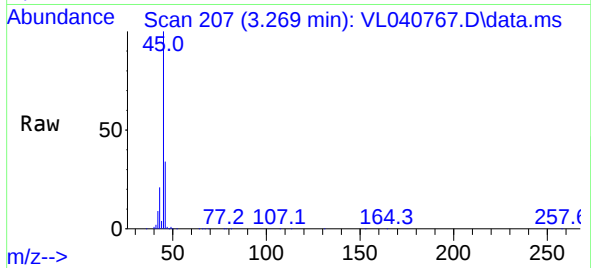




#13
Ethanol
Concen: 71.800 ppbv
RT: 3.269 min Scan# 206
Delta R.T. 0.003 min
Lab File: VL040767.D
Acq: 11 Oct 2023 22:28

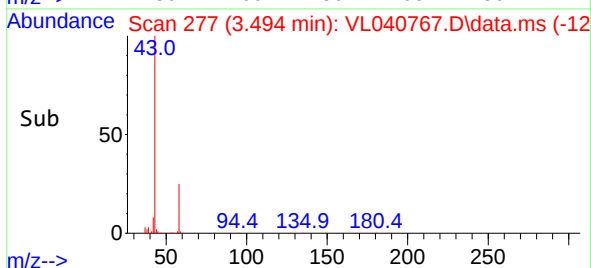
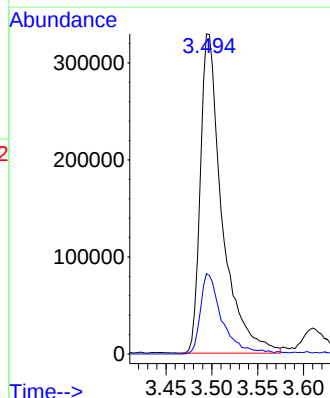
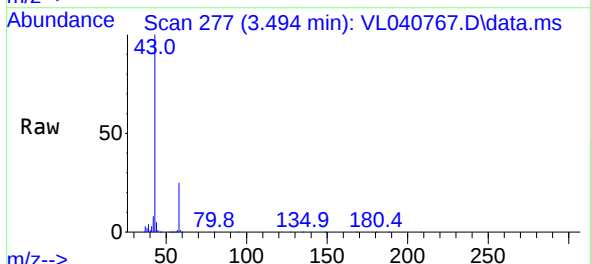
Instrument :
MSVOA_1
ClientSampleId :
IA1DUP

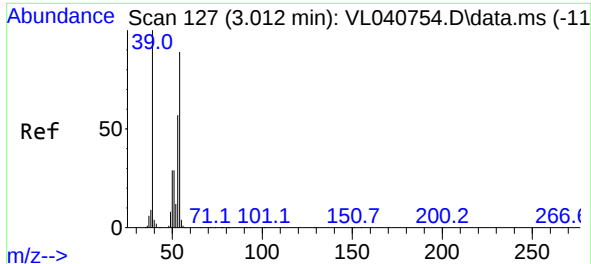
Tgt Ion: 45 Resp: 787967
Ion Ratio Lower Upper
45 100
46 37.5 14.6 58.2



#15
Acetone
Concen: 5.886 ppbv
RT: 3.494 min Scan# 277
Delta R.T. 0.003 min
Lab File: VL040767.D
Acq: 11 Oct 2023 22:28

Tgt Ion: 43 Resp: 541987
Ion Ratio Lower Upper
43 100
58 26.3 21.6 32.4

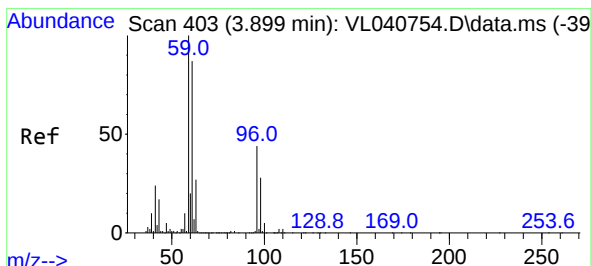
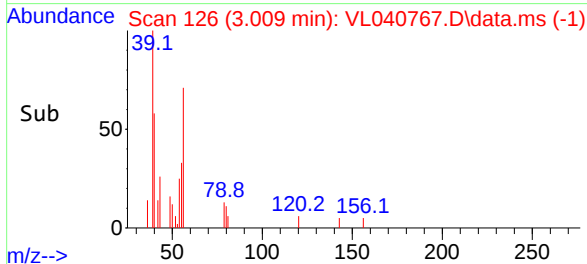
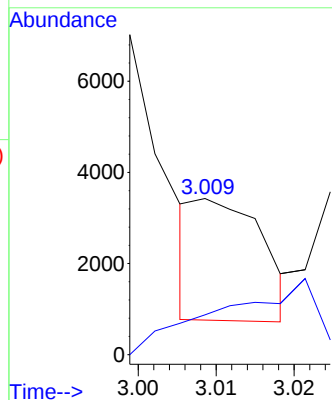
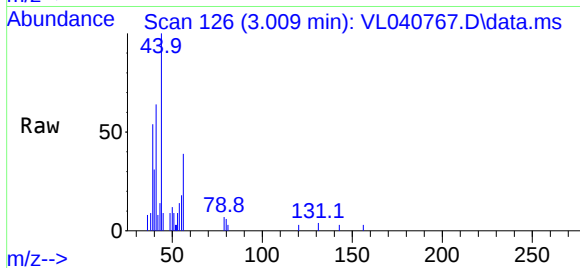




#16
1,3-Butadiene
Concen: 0.033 ppbv
RT: 3.009 min Scan# 11
Delta R.T. -0.003 min
Lab File: VL040767.D
Acq: 11 Oct 2023 22:28

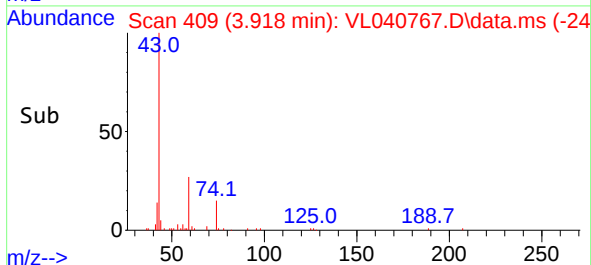
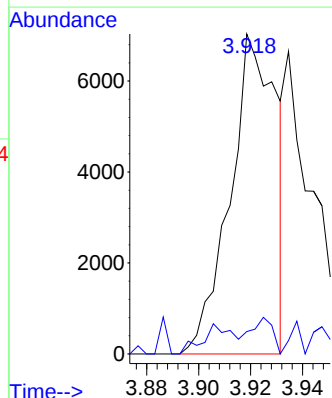
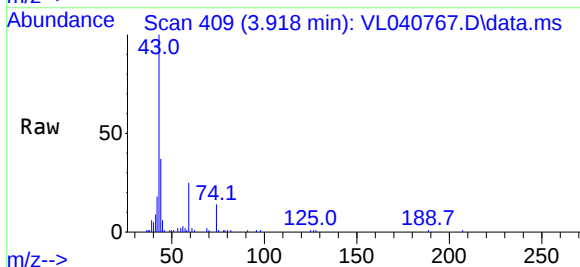
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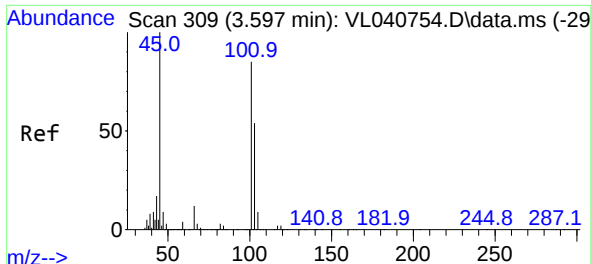
Tgt Ion: 39 Resp: 1617
Ion Ratio Lower Upper
39 100
54 122.5 63.0 94.6#



#17
tert-Butyl alcohol
Concen: 0.091 ppbv
RT: 3.918 min Scan# 409
Delta R.T. 0.019 min
Lab File: VL040767.D
Acq: 11 Oct 2023 22:28

Tgt Ion: 59 Resp: 8621
Ion Ratio Lower Upper
59 100
57 0.0 8.6 13.0#





#19

Isopropyl Alcohol

Concen: 3.220 ppbv

RT: 3.610 min Scan# 313

Delta R.T. 0.013 min

Lab File: VL040767.D

Acq: 11 Oct 2023 22:28

Instrument :

MSVOA_L

ClientSampleId :

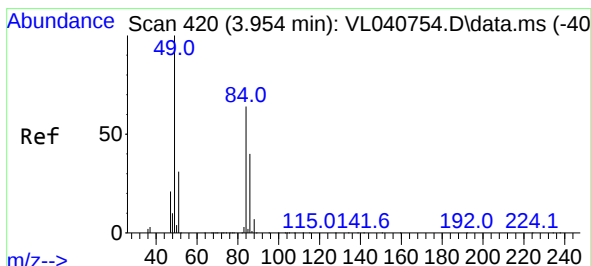
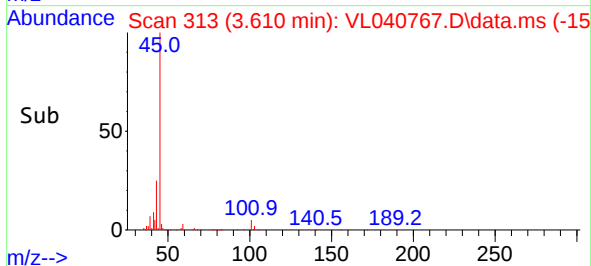
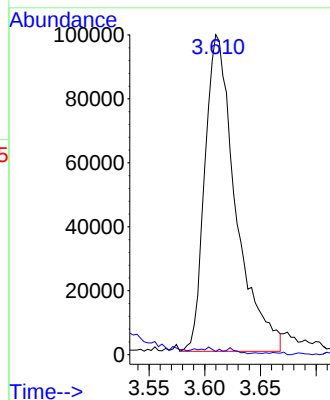
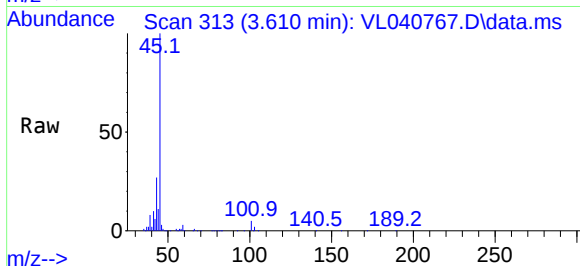
IA1DUP

Tgt Ion: 45 Resp: 190873

Ion Ratio Lower Upper

45 100

58 74.6 30.3 45.5#



#20

Methylene Chloride

Concen: 11.582 ppbv

RT: 3.960 min Scan# 422

Delta R.T. 0.006 min

Lab File: VL040767.D

Acq: 11 Oct 2023 22:28

Tgt Ion: 84 Resp: 444189

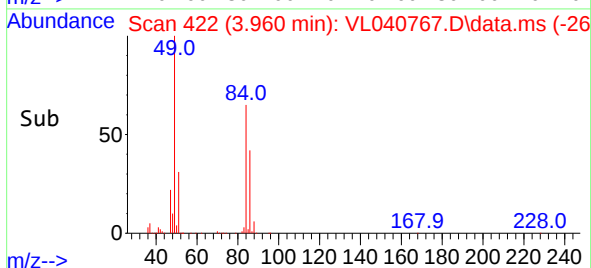
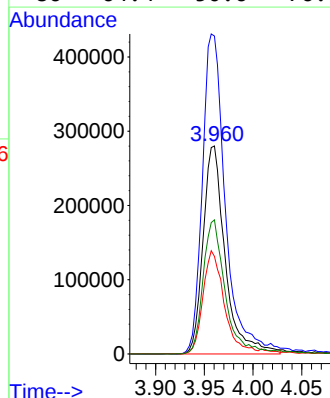
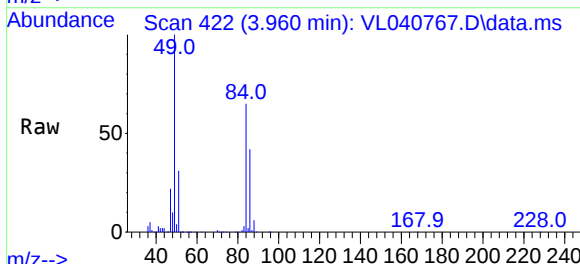
Ion Ratio Lower Upper

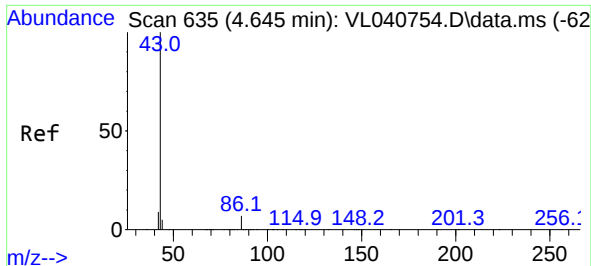
84 100

49 152.7 125.6 188.4

51 46.8 38.9 58.3

86 64.4 50.6 76.0



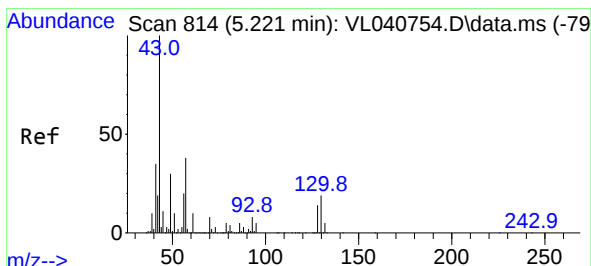
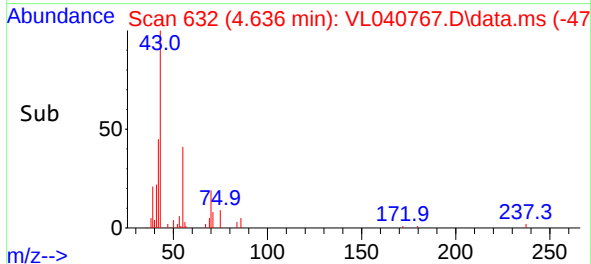
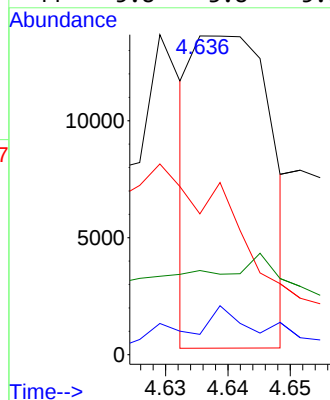
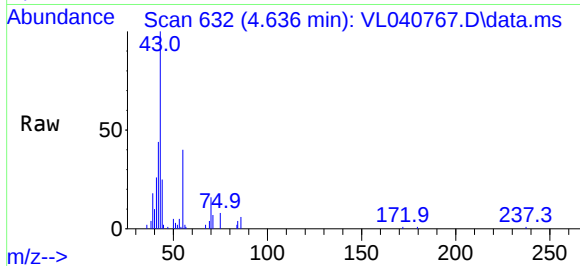


#23
 Vinyl Acetate
 Concen: 0.098 ppbv
 RT: 4.636 min Scan# 61
 Delta R.T. -0.010 min
 Lab File: VL040767.D
 Acq: 11 Oct 2023 22:28

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1DUP

Tgt Ion: 43 Resp: 11539

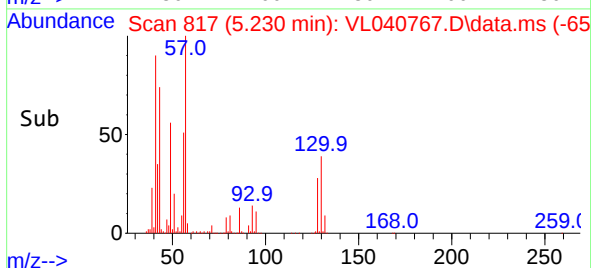
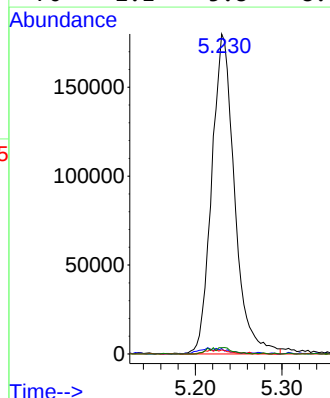
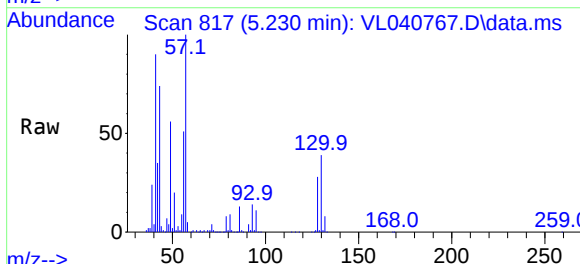
Ion	Ratio	Lower	Upper
43	100		
86	0.0	4.9	7.3#
42	50.4	7.8	11.6#
44	5.8	3.8	5.6#

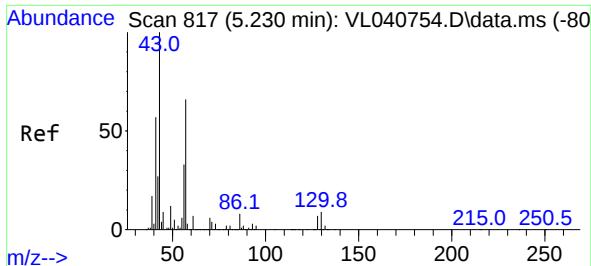


#25
 Ethyl Acetate
 Concen: 1.635 ppbv
 RT: 5.230 min Scan# 817
 Delta R.T. 0.010 min
 Lab File: VL040767.D
 Acq: 11 Oct 2023 22:28

Tgt Ion: 43 Resp: 329745

Ion	Ratio	Lower	Upper
43	100		
45	2.5	8.2	12.4#
61	1.5	8.2	12.2#
70	2.1	5.8	8.6#

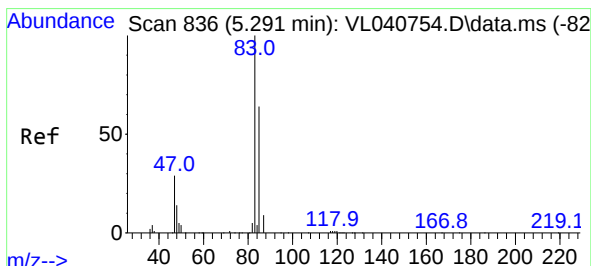
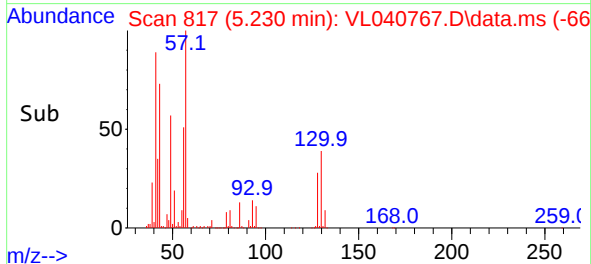
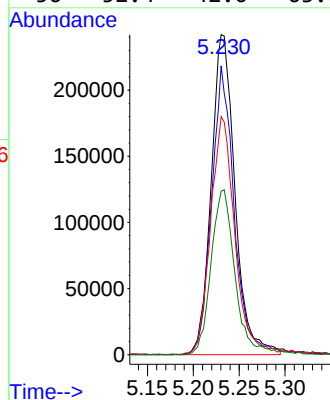
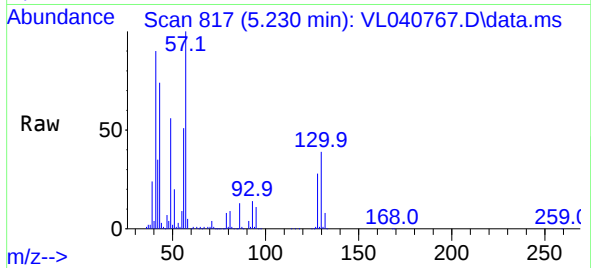




#26
Hexane
Concen: 4.722 ppbv
RT: 5.230 min Scan# 817
Delta R.T. 0.000 min
Lab File: VL040767.D
Acq: 11 Oct 2023 22:28

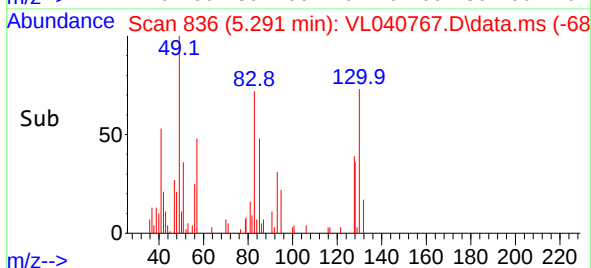
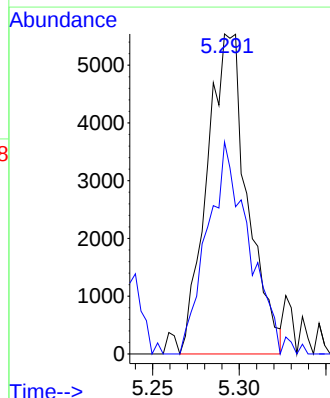
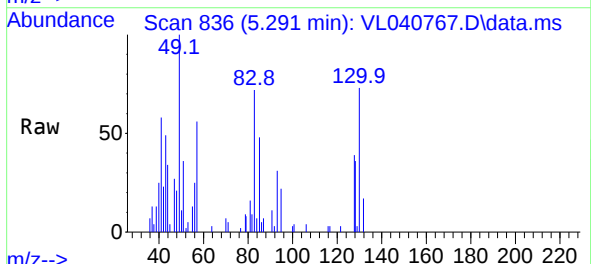
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

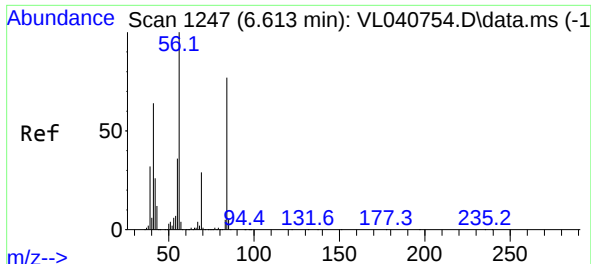
Tgt Ion: 57 Resp: 435411
Ion Ratio Lower Upper
57 100
41 87.4 71.4 107.2
43 76.7 182.3 273.5#
56 52.4 42.0 63.0



#29
Chloroform
Concen: 0.068 ppbv
RT: 5.291 min Scan# 836
Delta R.T. 0.000 min
Lab File: VL040767.D
Acq: 11 Oct 2023 22:28

Tgt Ion: 83 Resp: 9013
Ion Ratio Lower Upper
83 100
85 66.2 51.3 76.9

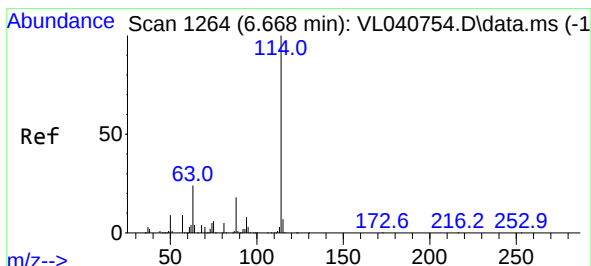
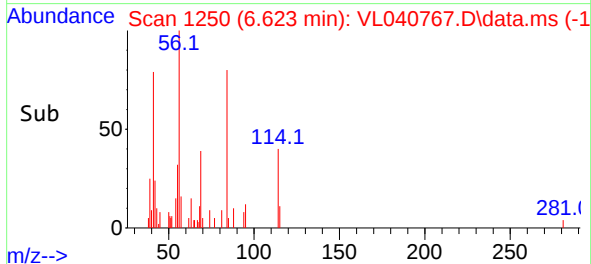
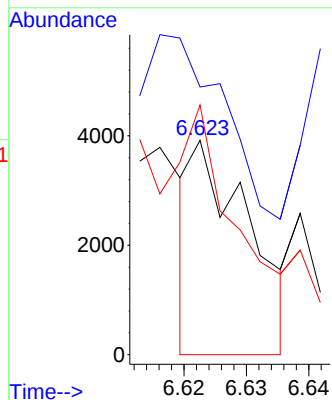
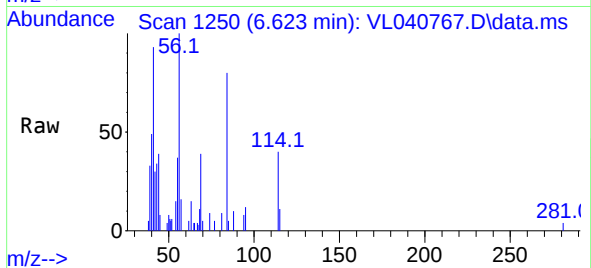




#30
Cyclohexane
Concen: 0.032 ppbv
RT: 6.623 min Scan# 11
Delta R.T. 0.010 min
Lab File: VL040767.D
Acq: 11 Oct 2023 22:28

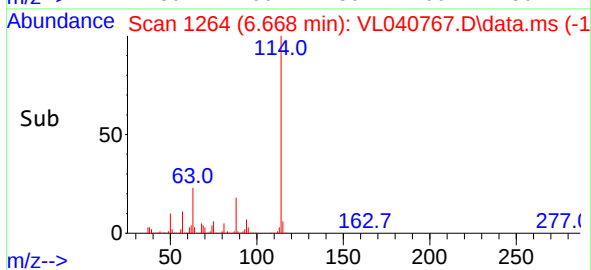
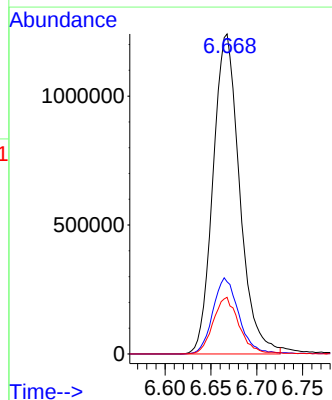
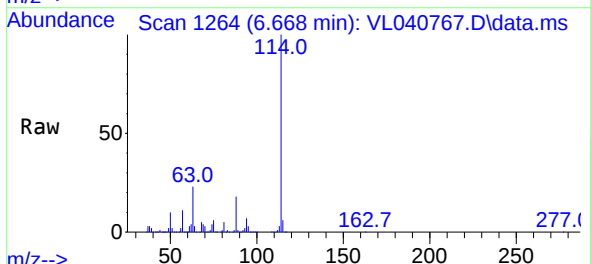
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

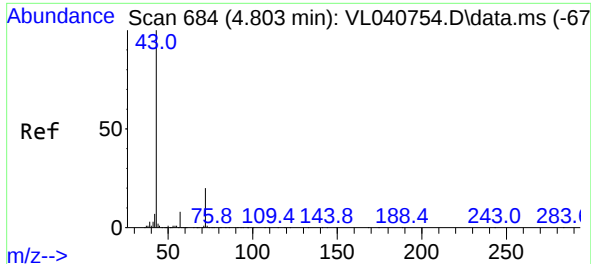
Tgt Ion: 84 Resp: 2497
Ion Ratio Lower Upper
84 100
56 0.0 110.3 165.5#
41 0.0 67.4 101.2#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.668 min Scan# 1264
Delta R.T. 0.000 min
Lab File: VL040767.D
Acq: 11 Oct 2023 22:28

Tgt Ion: 114 Resp: 2503660
Ion Ratio Lower Upper
114 100
63 23.7 19.8 29.6
88 17.5 14.2 21.2

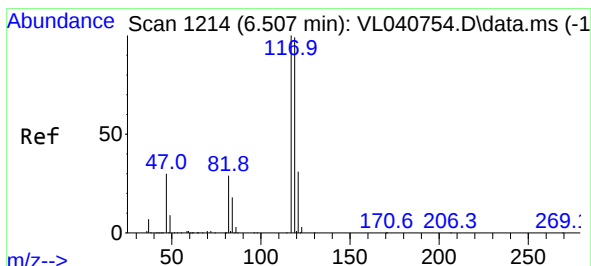
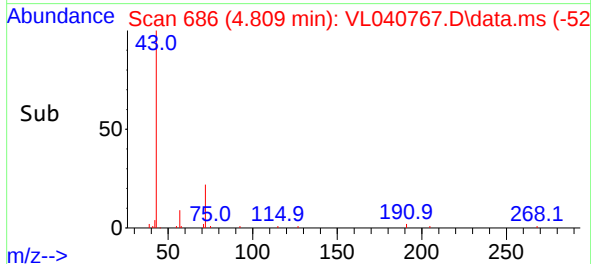
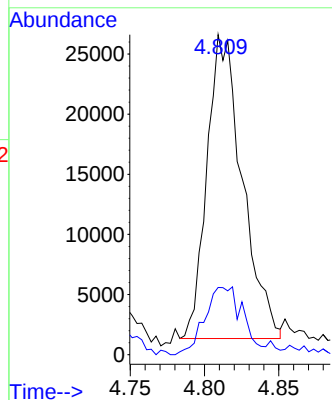
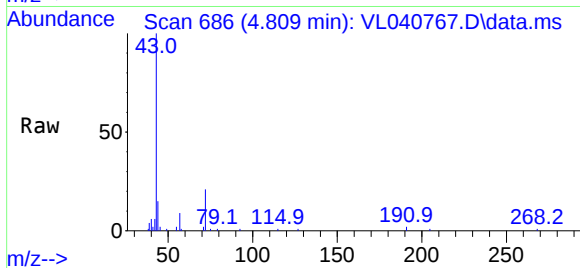




#34
2-Butanone
Concen: 0.368 ppbv
RT: 4.809 min Scan# 61
Delta R.T. 0.006 min
Lab File: VL040767.D
Acq: 11 Oct 2023 22:28

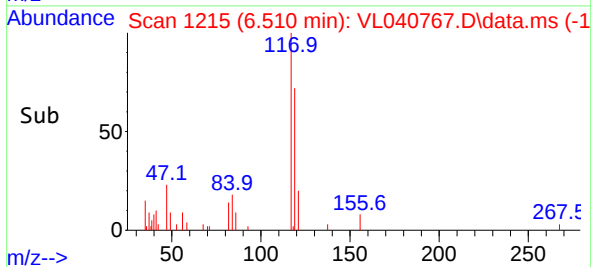
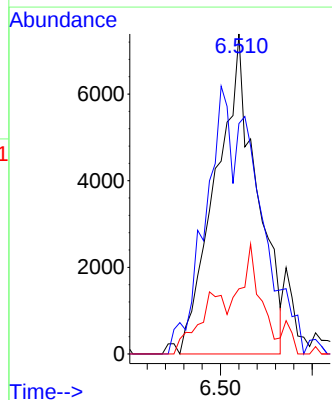
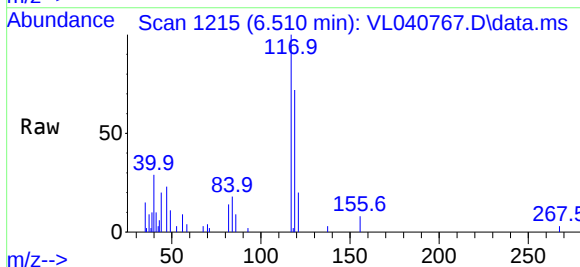
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

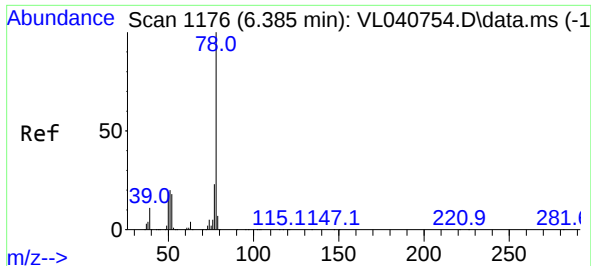
Tgt Ion: 43 Resp: 41760
Ion Ratio Lower Upper
43 100
72 26.4 16.8 25.2#



#35
Carbon Tetrachloride
Concen: 0.081 ppbv
RT: 6.510 min Scan# 1215
Delta R.T. 0.003 min
Lab File: VL040767.D
Acq: 11 Oct 2023 22:28

Tgt Ion: 117 Resp: 11373
Ion Ratio Lower Upper
117 100
119 62.2 79.4 119.0#
121 15.6 25.0 37.4#

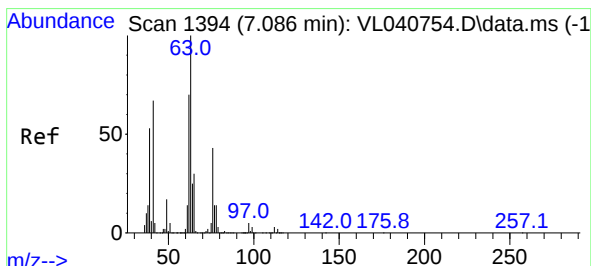
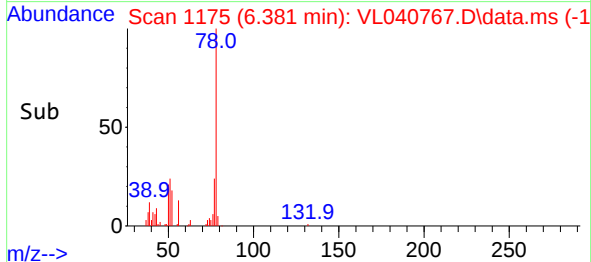
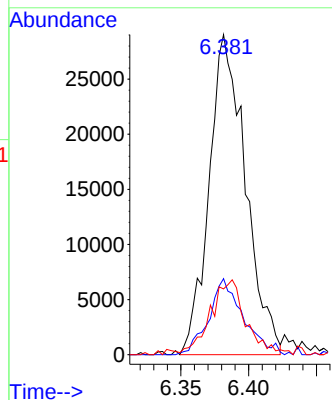
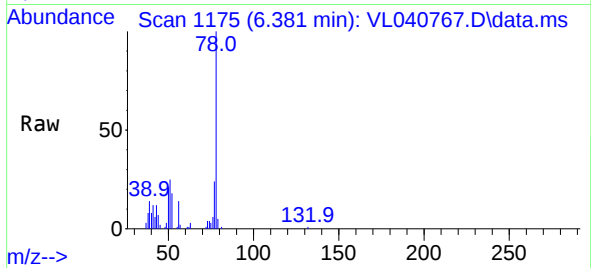




#36
Benzene
Concen: 0.282 ppbv
RT: 6.381 min Scan# 1176
Delta R.T. -0.003 min
Lab File: VL040767.D
Acq: 11 Oct 2023 22:28

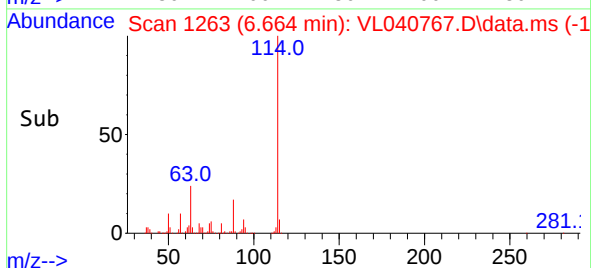
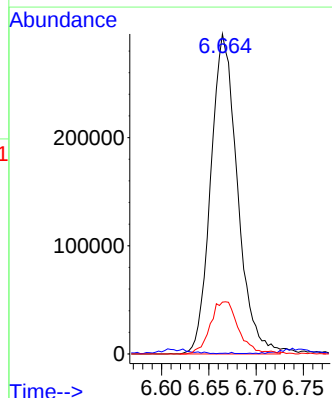
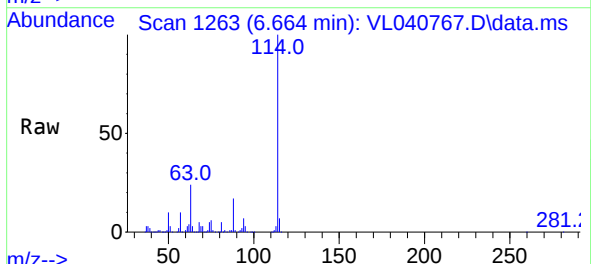
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

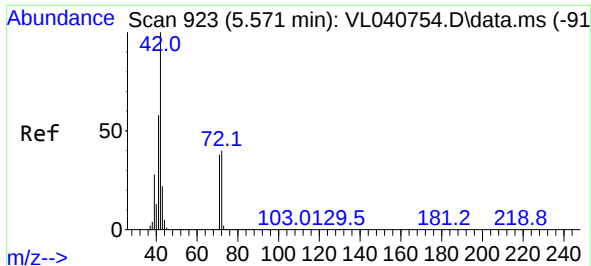
Tgt Ion: 78 Resp: 54251
Ion Ratio Lower Upper
78 100
77 23.2 18.4 27.6
50 19.9 15.0 22.4



#39
1,2-Dichloropropane
Concen: 7.719 ppbv
RT: 6.664 min Scan# 1263
Delta R.T. -0.421 min
Lab File: VL040767.D
Acq: 11 Oct 2023 22:28

Tgt Ion: 63 Resp: 580724
Ion Ratio Lower Upper
63 100
41 0.0 53.7 80.5#
62 16.2 55.7 83.5#

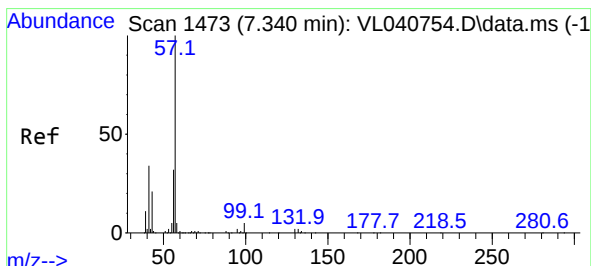
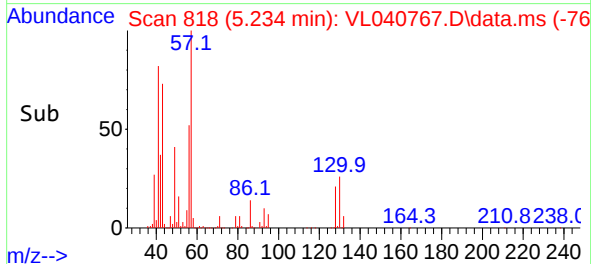
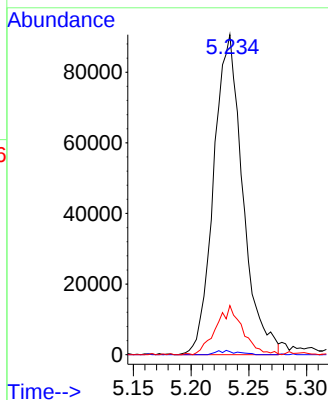
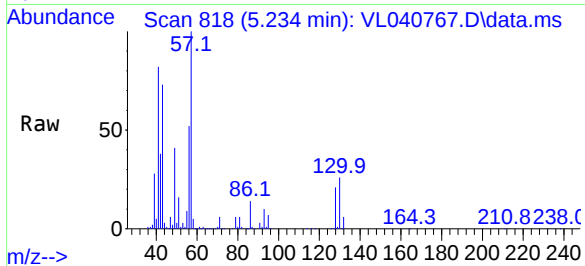




#41
Tetrahydrofuran
Concen: 2.024 ppbv
RT: 5.234 min Scan# 81
Delta R.T. -0.338 min
Lab File: VL040767.D
Acq: 11 Oct 2023 22:28

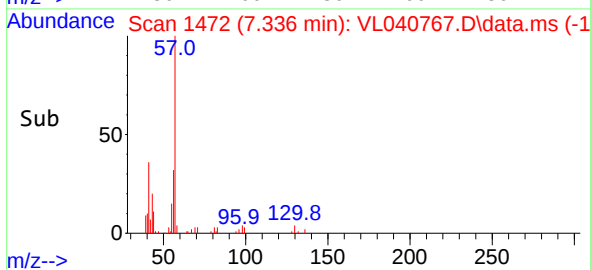
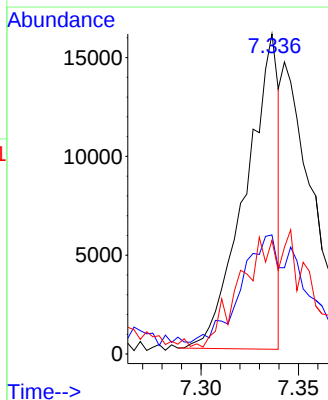
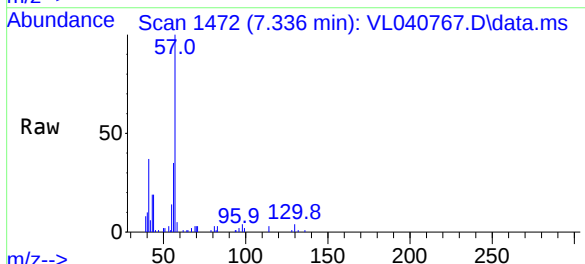
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

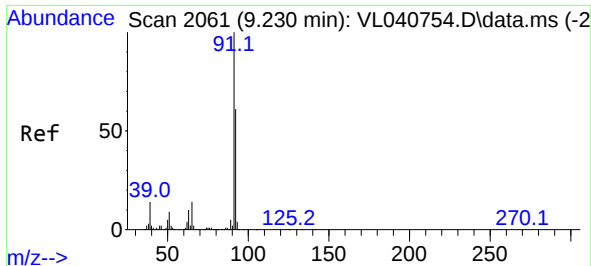
Tgt Ion: 42 Resp: 158811
Ion Ratio Lower Upper
42 100
72 0.9 31.1 46.7#
71 14.7 29.7 44.5#



#44
2,2,4-Trimethylpentane
Concen: 0.058 ppbv
RT: 7.336 min Scan# 1472
Delta R.T. -0.003 min
Lab File: VL040767.D
Acq: 11 Oct 2023 22:28

Tgt Ion: 57 Resp: 18824
Ion Ratio Lower Upper
57 100
41 97.3 27.4 41.0#
56 0.0 25.0 37.6#

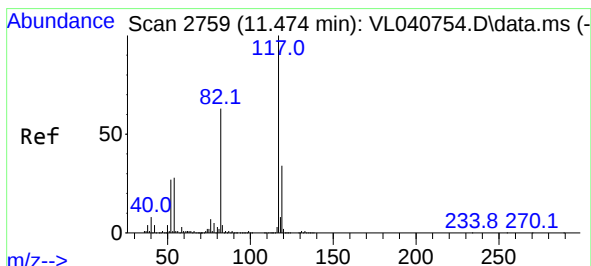
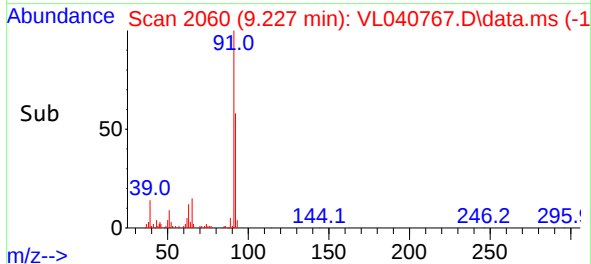
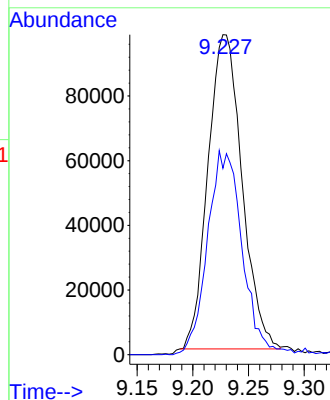
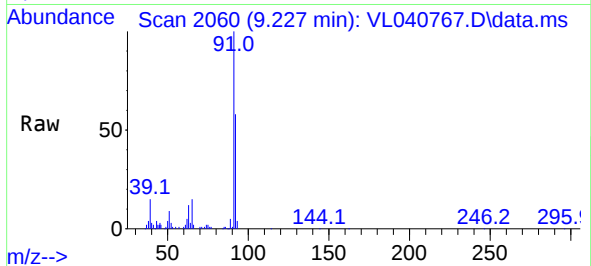




#53
Toluene
Concen: 0.903 ppbv
RT: 9.227 min Scan# 2060
Delta R.T. -0.003 min
Lab File: VL040767.D
Acq: 11 Oct 2023 22:28

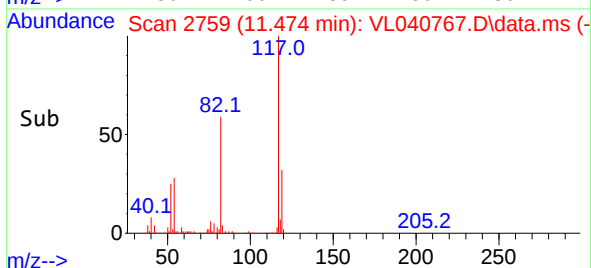
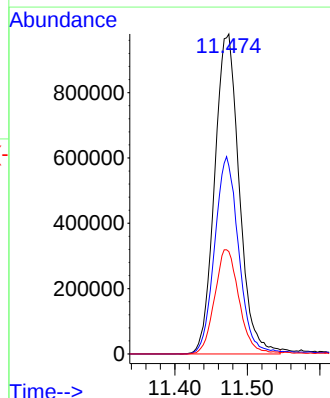
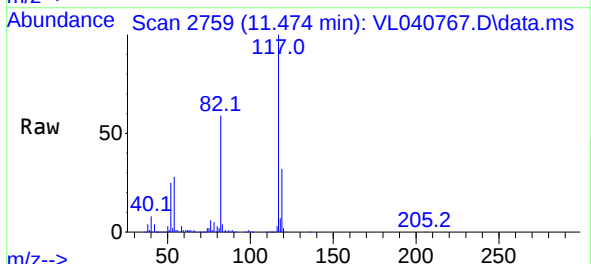
Instrument :
MSVOA_1
ClientSampleId :
IA1DUP

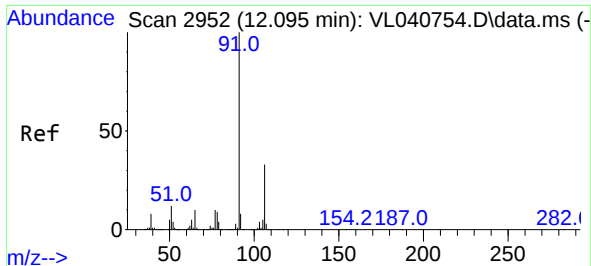
Tgt Ion: 91 Resp: 206900
Ion Ratio Lower Upper
91 100
92 67.0 50.2 75.2



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.474 min Scan# 2759
Delta R.T. 0.000 min
Lab File: VL040767.D
Acq: 11 Oct 2023 22:28

Tgt Ion: 117 Resp: 2313517
Ion Ratio Lower Upper
117 100
82 61.6 46.6 70.0
119 32.7 26.0 39.0

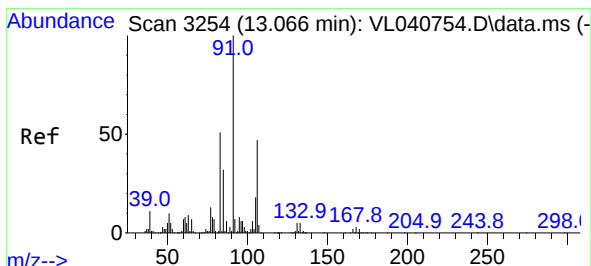
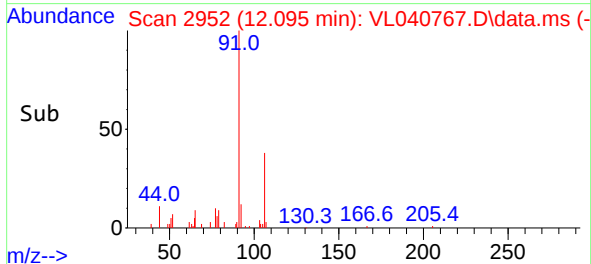
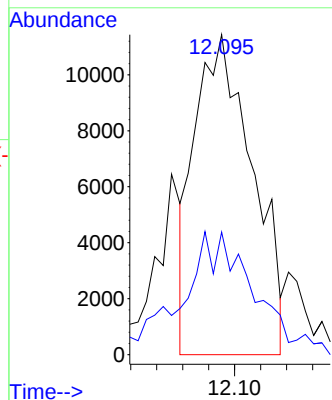
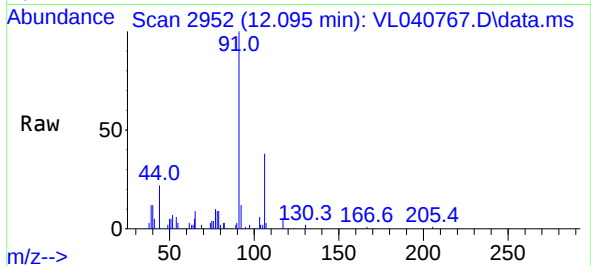




#58
Ethyl Benzene
Concen: 0.060 ppbv
RT: 12.095 min Scan# 2952
Delta R.T. 0.000 min
Lab File: VL040767.D
Acq: 11 Oct 2023 22:28

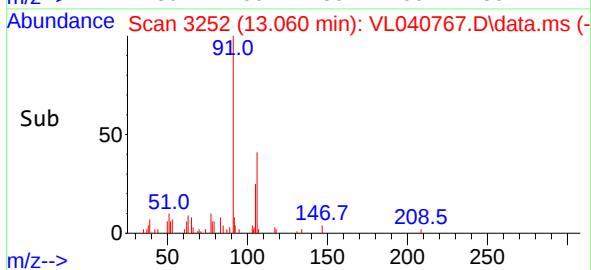
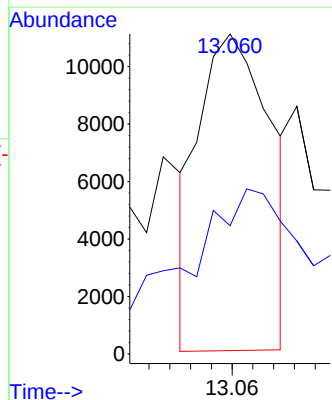
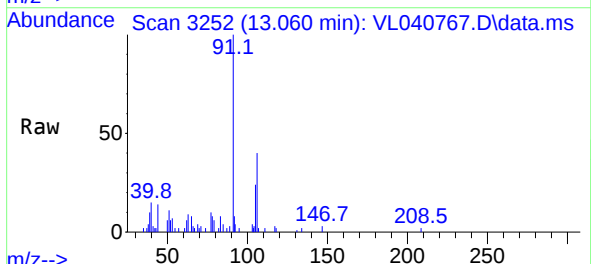
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

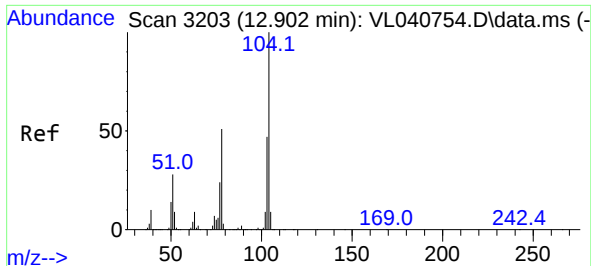
Tgt Ion: 91 Resp: 17613
Ion Ratio Lower Upper
91 100
106 31.5 26.7 40.1



#60
o-Xylene
Concen: 0.046 ppbv
RT: 13.060 min Scan# 3252
Delta R.T. -0.006 min
Lab File: VL040767.D
Acq: 11 Oct 2023 22:28

Tgt Ion: 91 Resp: 10496
Ion Ratio Lower Upper
91 100
106 113.4 23.5 70.5#

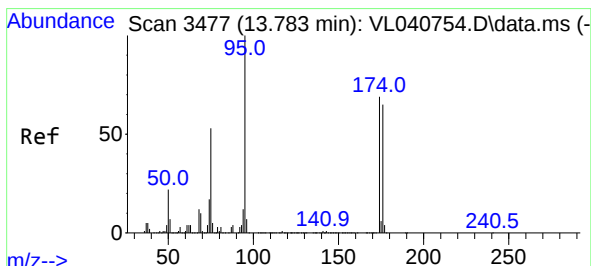
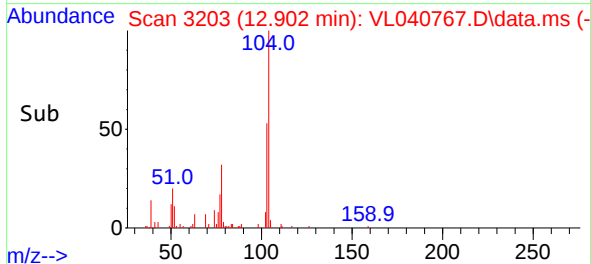
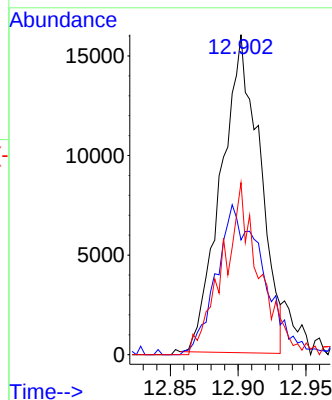
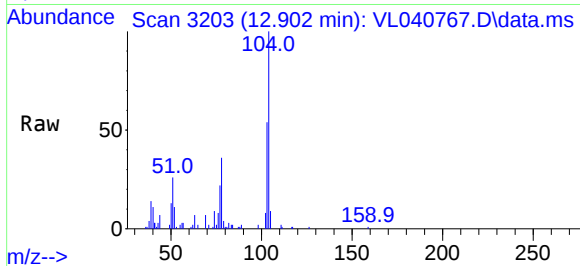




#61
Styrene
Concen: 0.250 ppbv
RT: 12.902 min Scan# 31
Delta R.T. 0.000 min
Lab File: VL040767.D
Acq: 11 Oct 2023 22:28

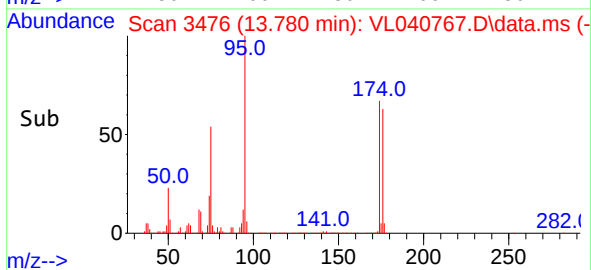
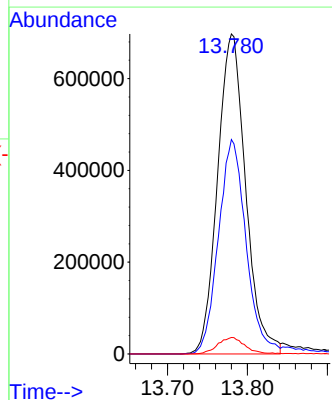
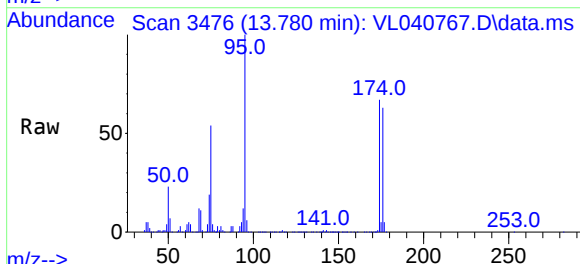
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

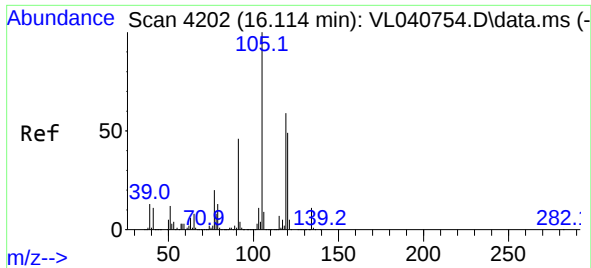
Tgt Ion:104 Resp: 31670
Ion Ratio Lower Upper
104 100
78 56.7 39.8 59.6
103 52.7 37.5 56.3



#68
1-Bromo-4-Fluorobenzene
Concen: 9.996 ppbv
RT: 13.780 min Scan# 3476
Delta R.T. -0.003 min
Lab File: VL040767.D
Acq: 11 Oct 2023 22:28

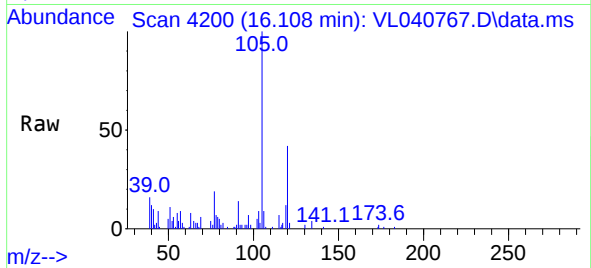
Tgt Ion: 95 Resp: 1701612
Ion Ratio Lower Upper
95 100
174 68.9 54.7 82.1
175 5.1 4.2 6.4





#74
 1,2,4-Trimethylbenzene
 Concen: 0.120 ppbv
 RT: 16.108 min Scan# 41
 Delta R.T. -0.006 min
 Lab File: VL040767.D
 Acq: 11 Oct 2023 22:28

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1DUP



Tgt Ion:	105	Resp:	30875
Ion	Ratio	Lower	Upper
105	100		
120	40.7	39.4	59.2
91	12.5	38.6	58.0#
77	16.6	16.6	25.0#

