

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092723\
 Data File : VL040726.D
 Acq On : 27 Sep 2023 14:07
 Operator : SY/MD
 Sample : 04616-02 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SSG1DL

Quant Time: Sep 28 01:44:15 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL091423AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Sep 19 05:12:43 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.179	49	1263312	10.000	ppbv	-0.02
33) 1,4-Difluorobenzene	6.635	114	3505081	10.000	ppbv	-0.03
55) Chlorobenzene-d5	11.442	117	3038179	10.000	ppbv	-0.04

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.751	95	2297650	9.788	ppbv	-0.04
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.900%

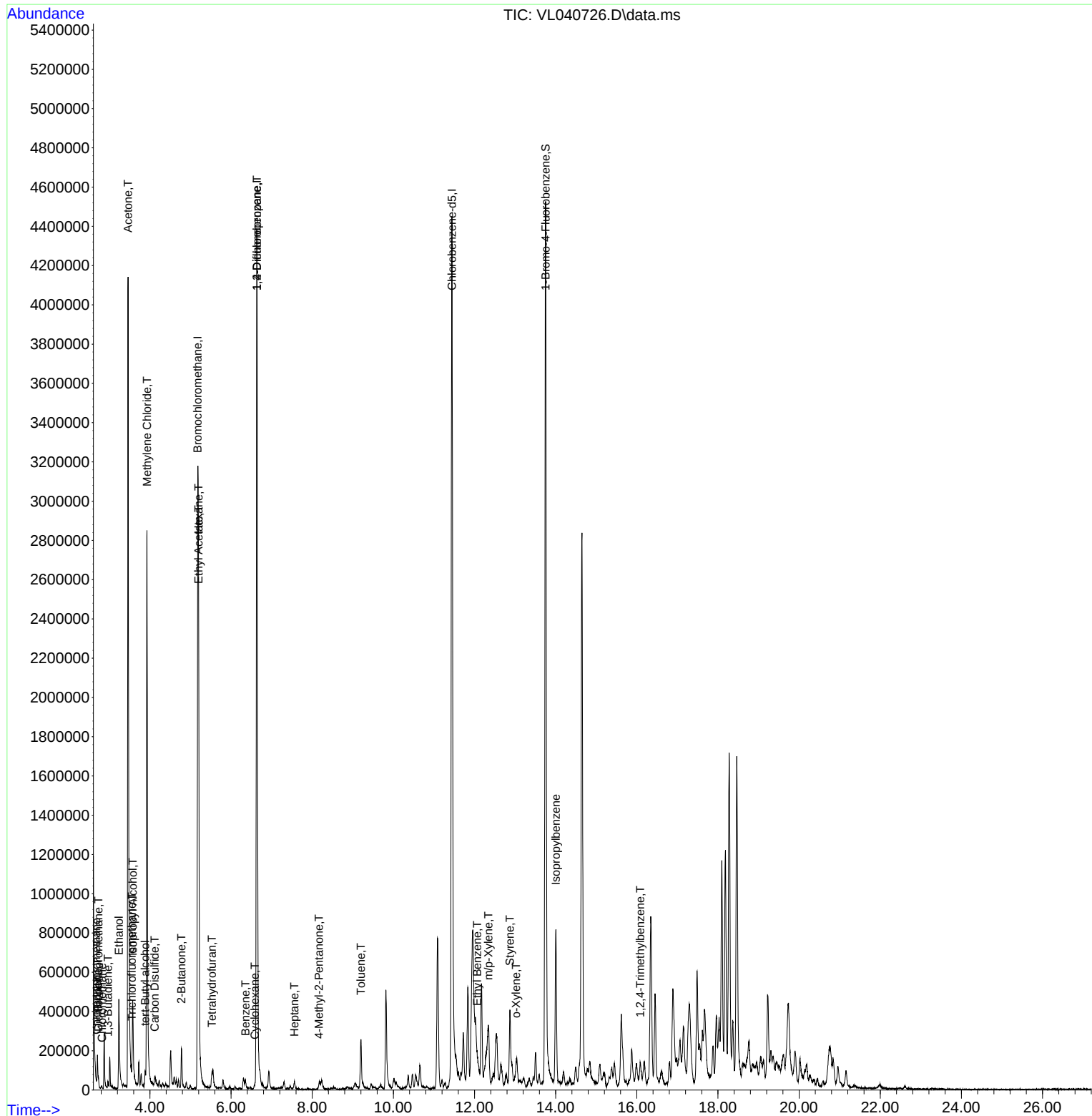
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.729	85	27968	0.100	ppbv	92
3) Chlorodifluoromethane	2.677	51	36970	0.180	ppbv #	76
4) Chloromethane	2.819	50	9407	0.119	ppbv #	85
9) Propene	2.710	41	37754	0.637	ppbv #	76
10) Heptane	7.561	43	11895	0.089	ppbv #	72
11) Trichlorofluoromethane	3.555	101	15765	0.064	ppbv	85
13) Ethanol	3.234	45	492627	28.072	ppbv	99
15) Acetone	3.462	43	4211041	25.271	ppbv	95
16) 1,3-Butadiene	2.964	39	5148	0.071	ppbv #	52
17) tert-Butyl alcohol	3.883	59	69856	0.409	ppbv	100
19) Isopropyl Alcohol	3.574	45	452160	4.503	ppbv #	1
20) Methylene Chloride	3.928	84	982129	10.950	ppbv	97
25) Ethyl Acetate	5.201	43	516724	1.923	ppbv #	78
26) Hexane	5.198	57	766580	6.032	ppbv #	37
27) Carbon Disulfide	4.118	76	50732	0.286	ppbv #	91
30) Cyclohexane	6.584	84	5880	0.061	ppbv #	1
34) 2-Butanone	4.777	43	222744	1.264	ppbv	93
36) Benzene	6.356	78	30778	0.119	ppbv	97
39) 1,2-Dichloropropane	6.635	63	811552	8.123	ppbv #	23
41) Tetrahydrofuran	5.529	42	15242	0.169	ppbv #	33
50) 4-Methyl-2-Pentanone	8.166	43	9984	0.042	ppbv #	39
53) Toluene	9.201	91	184132	0.672	ppbv	99
58) Ethyl Benzene	12.063	91	64253	0.185	ppbv	94
59) m/p-Xylene	12.339	91	68687	0.211	ppbv #	32
60) o-Xylene	13.024	91	20590	0.066	ppbv #	31
61) Styrene	12.873	104	231426	1.780	ppbv	94
62) Isopropylbenzene	14.005	105	707563	1.511	ppbv	100
74) 1,2,4-Trimethylbenzene	16.082	105	54768	0.143	ppbv #	59

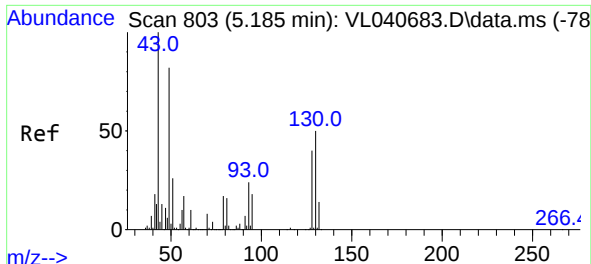
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092723\
Data File : VL040726.D
Acq On : 27 Sep 2023 14:07
Operator : SY/MD
Sample : 04616-02 4X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SSG1DL

Quant Time: Sep 28 01:44:15 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL091423AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Tue Sep 19 05:12:43 2023
Response via : Initial Calibration

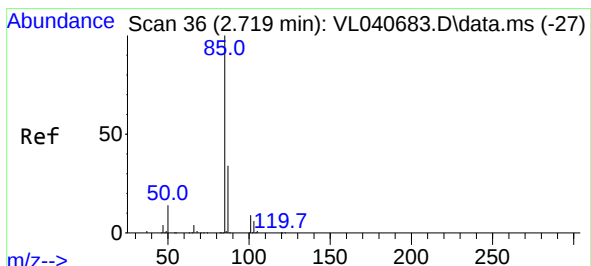
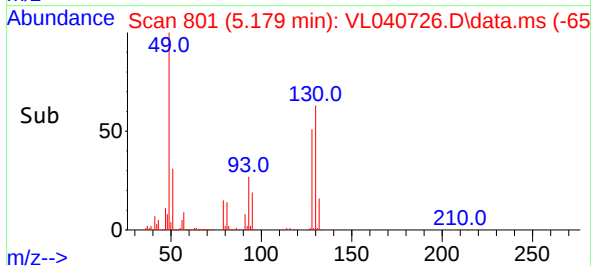
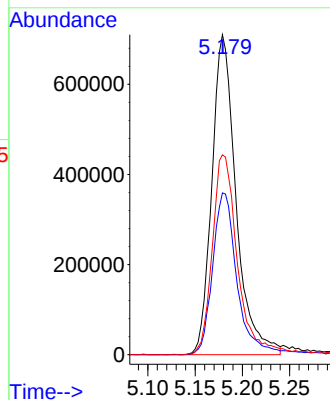
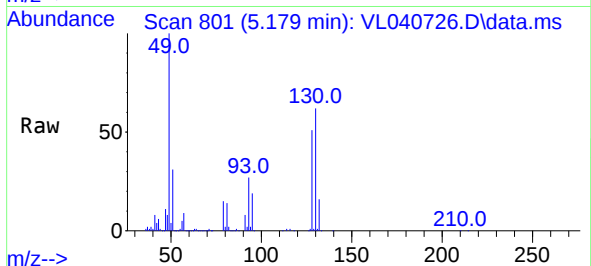




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.179 min Scan# 80
Delta R.T. -0.019 min
Lab File: VL040726.D
Acq: 27 Sep 2023 14:07

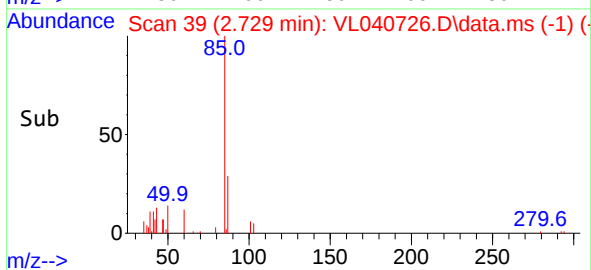
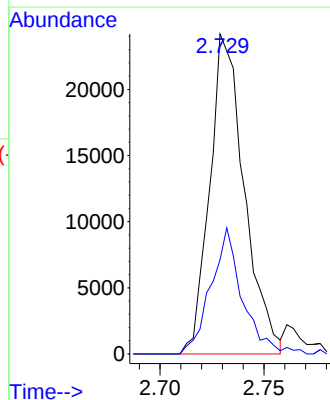
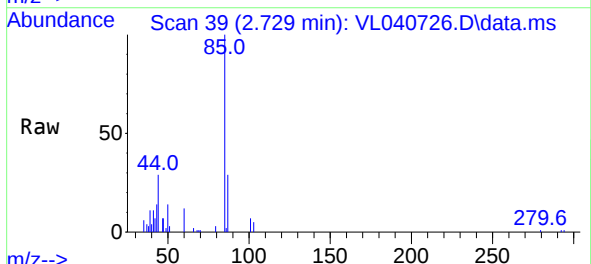
Instrument :
MSVOA_L
ClientSampleId :
SSG1DL

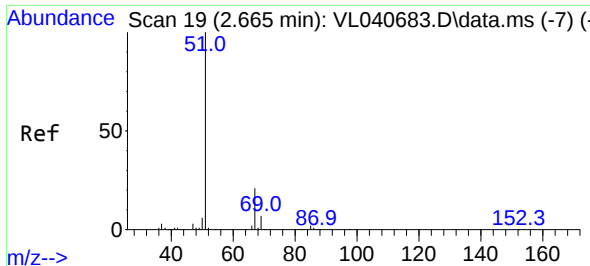
Tgt Ion: 49 Resp: 1263312
Ion Ratio Lower Upper
49 100
128 52.1 25.4 76.0
130 66.7 32.3 96.8



#2
Dichlorodifluoromethane
Concen: 0.100 ppbv
RT: 2.729 min Scan# 39
Delta R.T. -0.003 min
Lab File: VL040726.D
Acq: 27 Sep 2023 14:07

Tgt Ion: 85 Resp: 27968
Ion Ratio Lower Upper
85 100
87 29.4 27.2 40.8

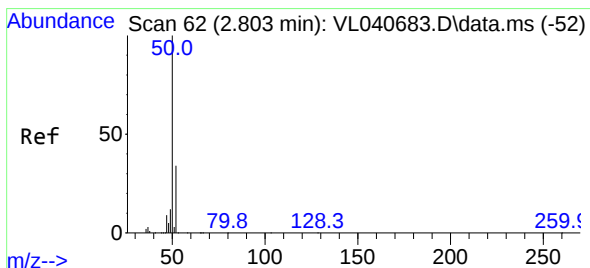
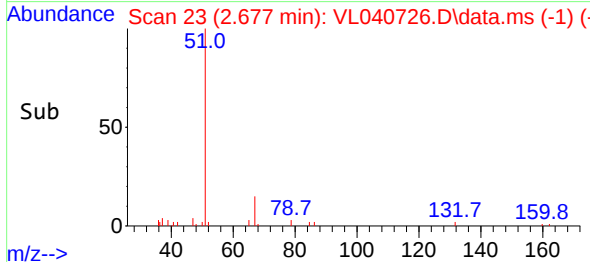
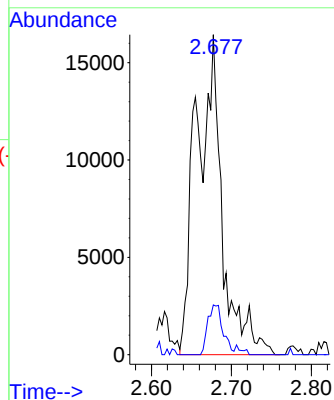
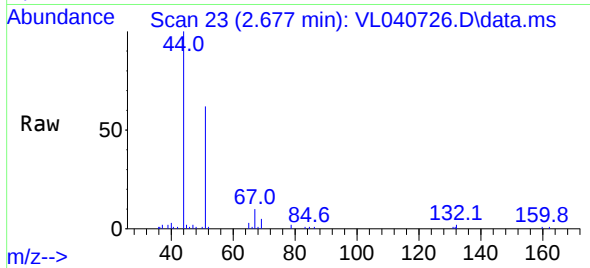




#3
Chlorodifluoromethane
Concen: 0.180 ppbv
RT: 2.677 min Scan# 21
Delta R.T. 0.000 min
Lab File: VL040726.D
Acq: 27 Sep 2023 14:07

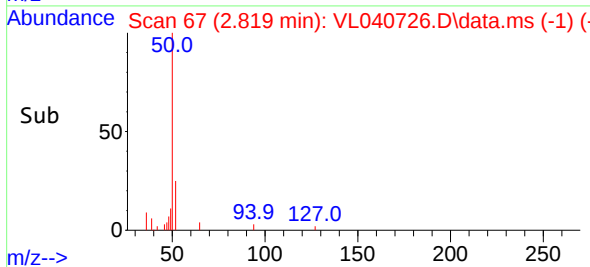
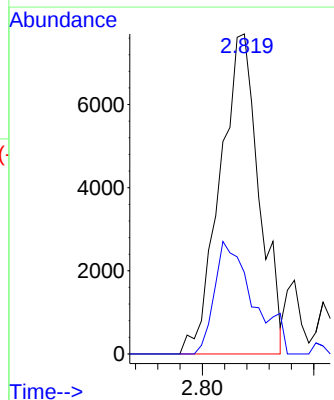
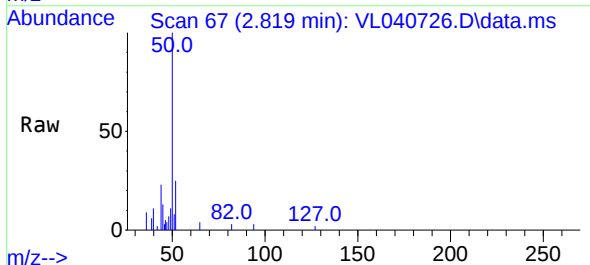
Instrument :
MSVOA_L
ClientSampleId :
SSG1DL

Tgt Ion: 51 Resp: 36970
Ion Ratio Lower Upper
51 100
67 9.8 16.7 25.1#

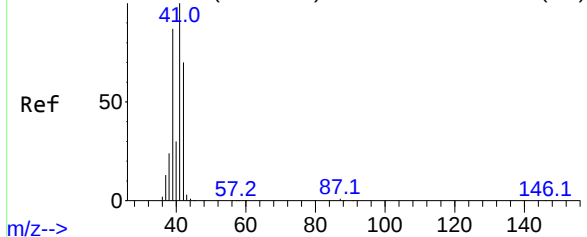


#4
Chloromethane
Concen: 0.119 ppbv
RT: 2.819 min Scan# 67
Delta R.T. 0.003 min
Lab File: VL040726.D
Acq: 27 Sep 2023 14:07

Tgt Ion: 50 Resp: 9407
Ion Ratio Lower Upper
50 100
52 25.5 27.1 40.7#



Abundance Scan 25 (2.684 min): VL040683.D\data.ms (-16)



#9

Propene

Concen: 0.637 ppbv

RT: 2.710 min Scan# 31

Delta R.T. 0.013 min

Lab File: VL040726.D

Acq: 27 Sep 2023 14:07

Instrument :

MSVOA_L

ClientSampleId :

SSG1DL

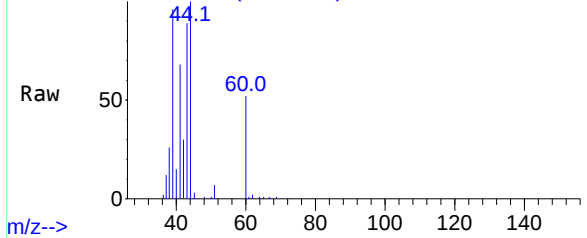
Tgt Ion: 41 Resp: 37754

Ion Ratio Lower Upper

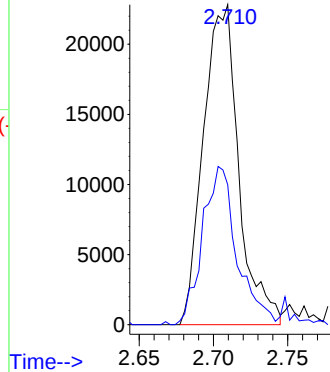
41 100

42 50.8 56.7 85.1#

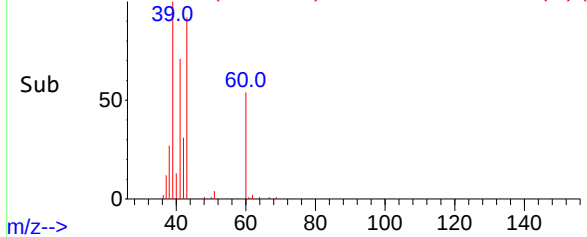
Abundance Scan 33 (2.710 min): VL040726.D\data.ms



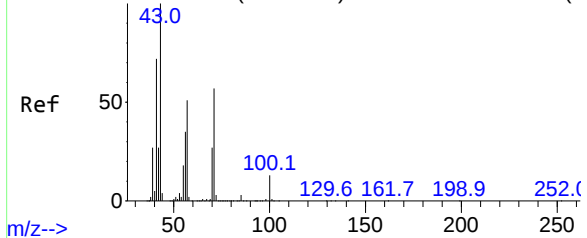
Abundance



Abundance Scan 33 (2.710 min): VL040726.D\data.ms (-1)



Abundance Scan 1546 (7.574 min): VL040683.D\data.ms (-1)



#10

Heptane

Concen: 0.089 ppbv

RT: 7.561 min Scan# 1542

Delta R.T. -0.026 min

Lab File: VL040726.D

Acq: 27 Sep 2023 14:07

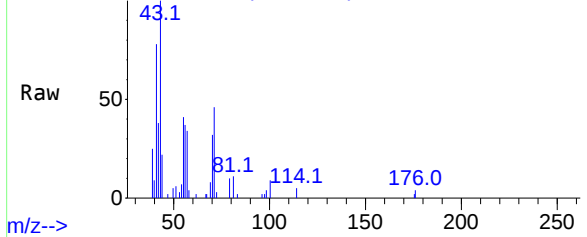
Tgt Ion: 43 Resp: 11895

Ion Ratio Lower Upper

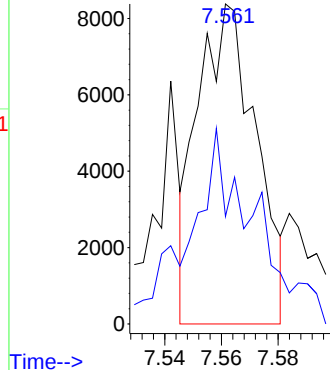
43 100

57 71.6 41.8 62.6#

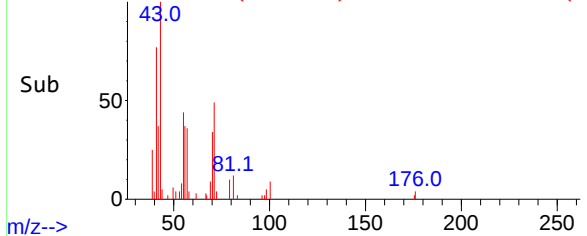
Abundance Scan 1542 (7.561 min): VL040726.D\data.ms

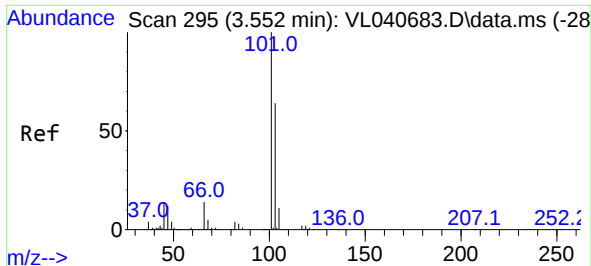


Abundance



Abundance Scan 1542 (7.561 min): VL040726.D\data.ms (-1)

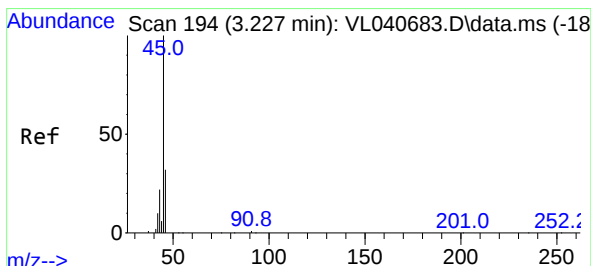
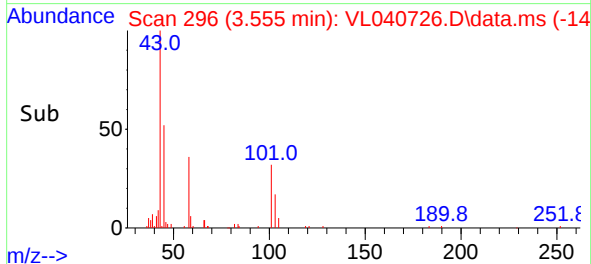
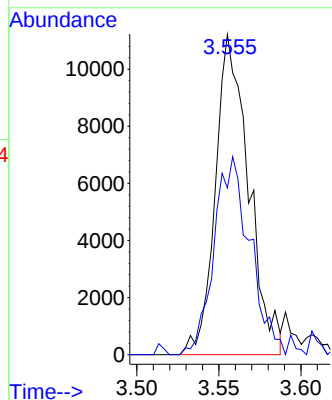
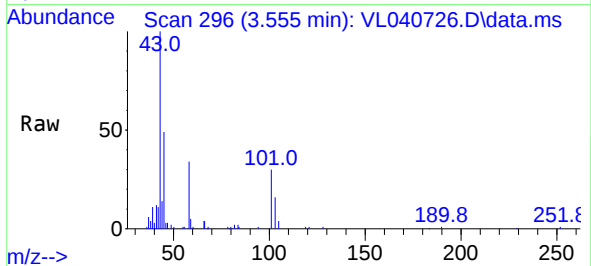




#11
Trichlorofluoromethane
Concen: 0.064 ppbv
RT: 3.555 min Scan# 295
Delta R.T. -0.013 min
Lab File: VL040726.D
Acq: 27 Sep 2023 14:07

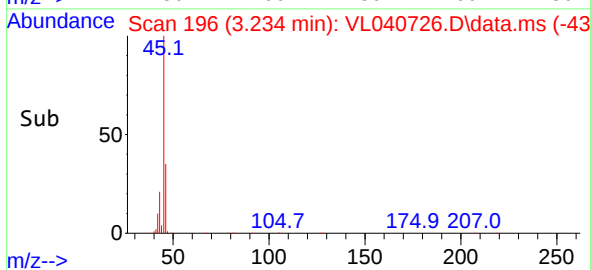
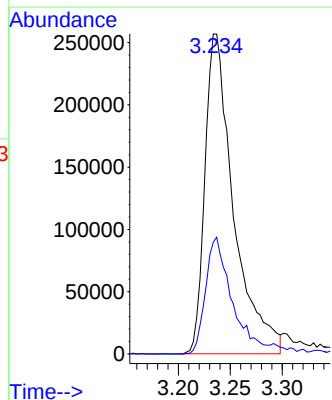
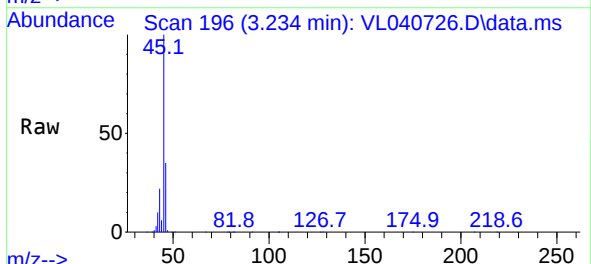
Instrument :
MSVOA_L
ClientSampleId :
SSG1DL

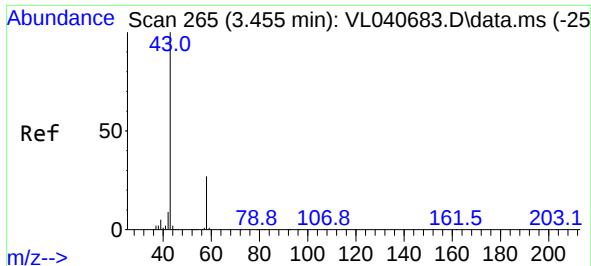
Tgt Ion:101 Resp: 15765
Ion Ratio Lower Upper
101 100
103 52.1 51.3 76.9



#13
Ethanol
Concen: 28.072 ppbv
RT: 3.234 min Scan# 196
Delta R.T. -0.010 min
Lab File: VL040726.D
Acq: 27 Sep 2023 14:07

Tgt Ion: 45 Resp: 492627
Ion Ratio Lower Upper
45 100
46 37.3 15.2 61.0

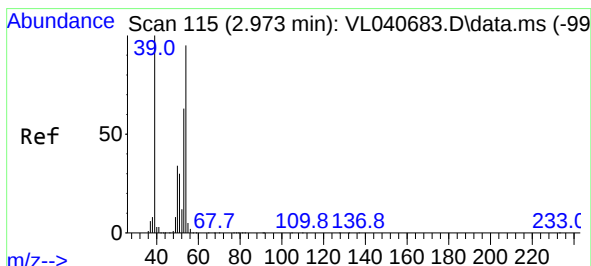
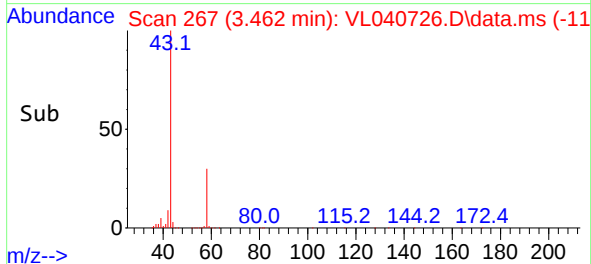
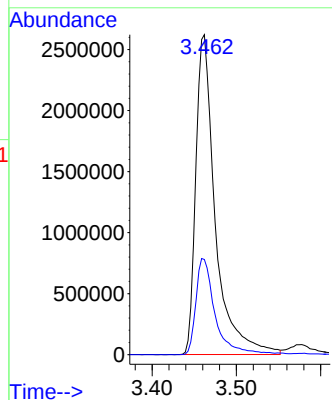
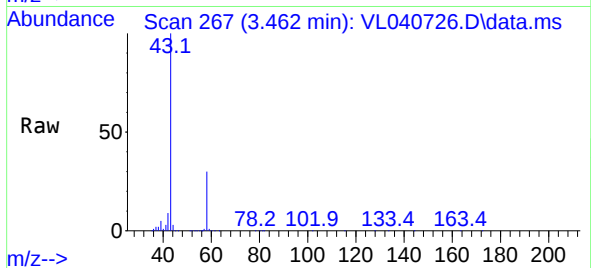




#15
Acetone
Concen: 25.271 ppbv
RT: 3.462 min Scan# 20
Delta R.T. -0.010 min
Lab File: VL040726.D
Acq: 27 Sep 2023 14:07

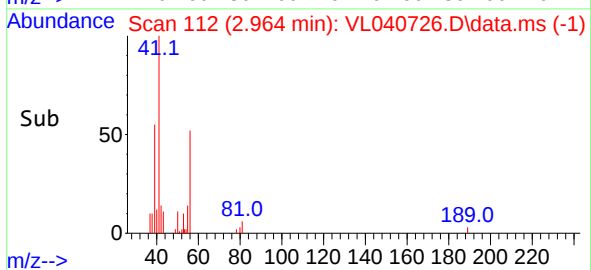
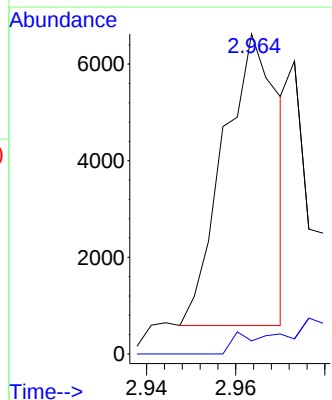
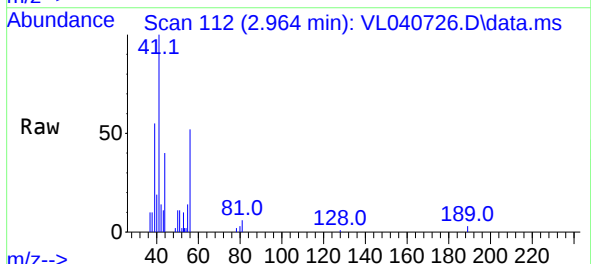
Instrument :
MSVOA_L
ClientSampleId :
SSG1DL

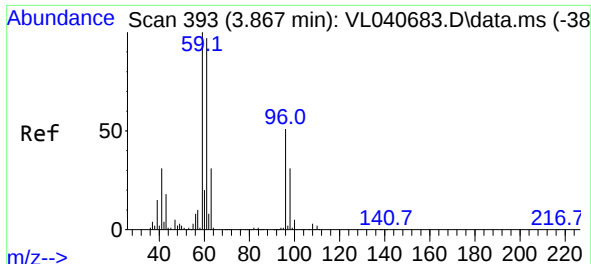
Tgt Ion: 43 Resp: 4211041
Ion Ratio Lower Upper
43 100
58 30.7 22.6 34.0



#16
1,3-Butadiene
Concen: 0.071 ppbv
RT: 2.964 min Scan# 112
Delta R.T. -0.026 min
Lab File: VL040726.D
Acq: 27 Sep 2023 14:07

Tgt Ion: 39 Resp: 5148
Ion Ratio Lower Upper
39 100
54 38.5 64.8 97.2#

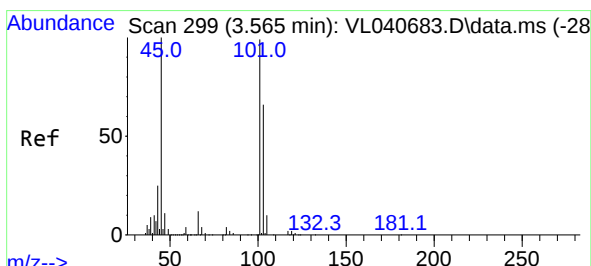
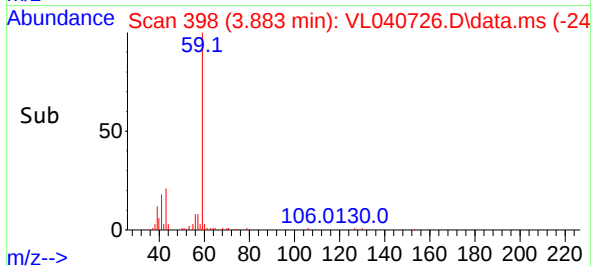
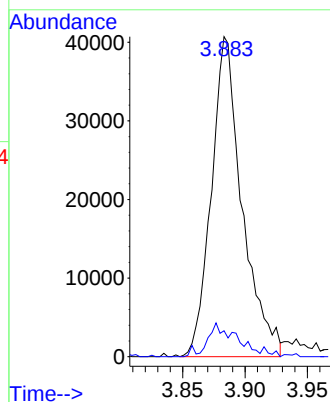
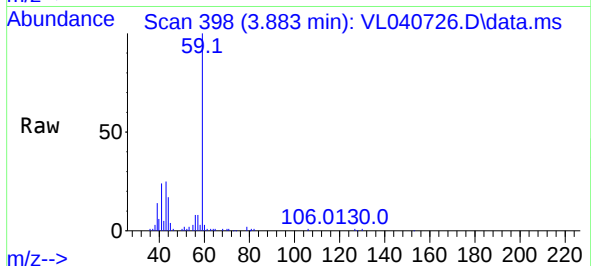




#17
tert-Butyl alcohol
Concen: 0.409 ppbv
RT: 3.883 min Scan# 393
Delta R.T. 0.000 min
Lab File: VL040726.D
Acq: 27 Sep 2023 14:07

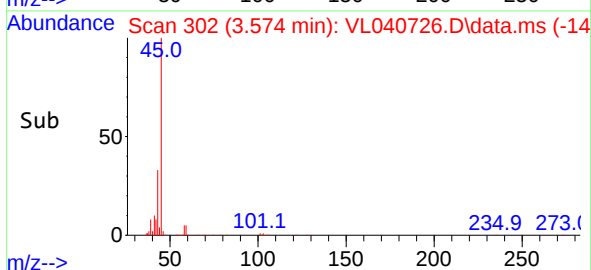
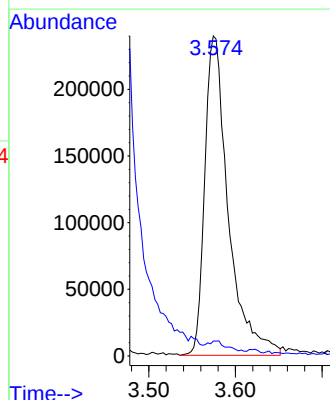
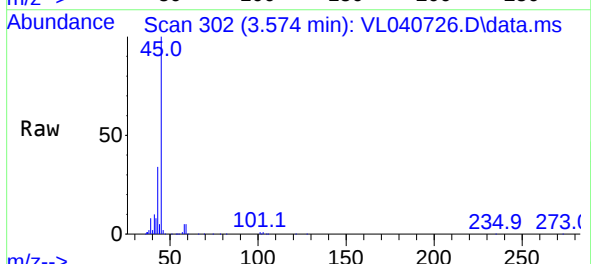
Instrument :
MSVOA_L
ClientSampleId :
SSG1DL

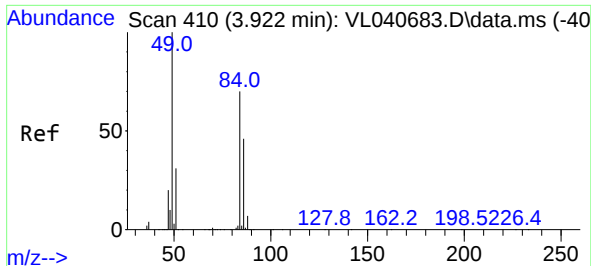
Tgt Ion: 59 Resp: 69856
Ion Ratio Lower Upper
59 100
57 10.8 8.7 13.1



#19
Isopropyl Alcohol
Concen: 4.503 ppbv
RT: 3.574 min Scan# 302
Delta R.T. -0.003 min
Lab File: VL040726.D
Acq: 27 Sep 2023 14:07

Tgt Ion: 45 Resp: 452160
Ion Ratio Lower Upper
45 100
58 286.2 1.9 2.9#

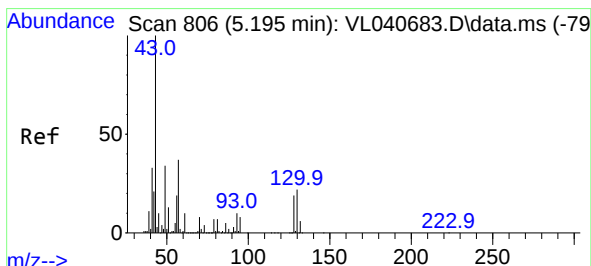
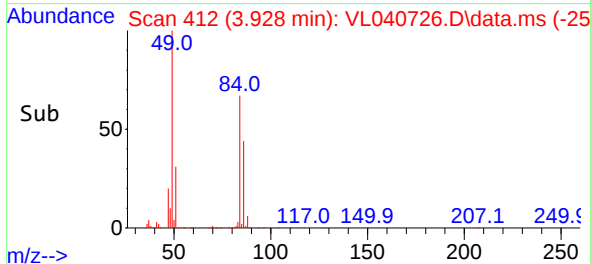
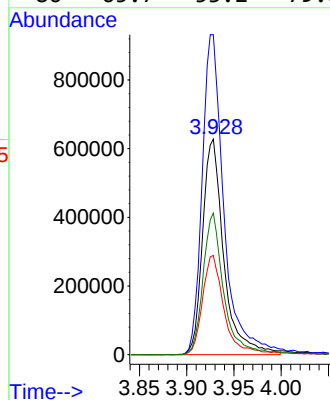
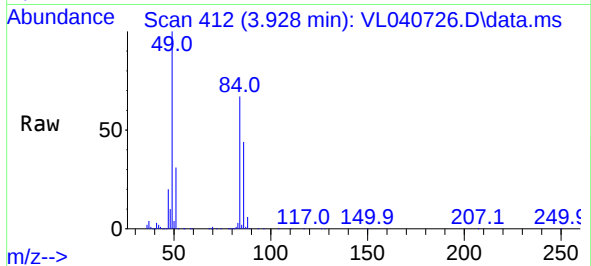




#20
Methylene Chloride
Concen: 10.950 ppbv
RT: 3.928 min Scan# 410
Delta R.T. -0.010 min
Lab File: VL040726.D
Acq: 27 Sep 2023 14:07

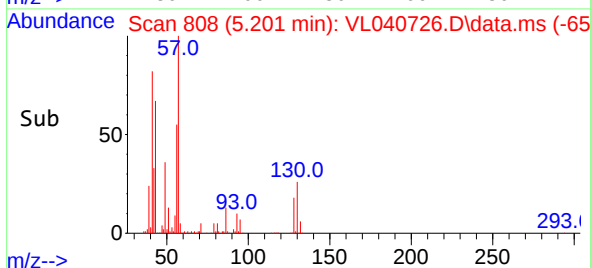
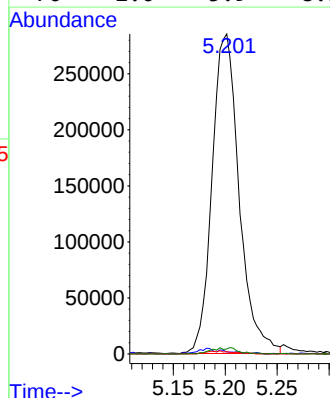
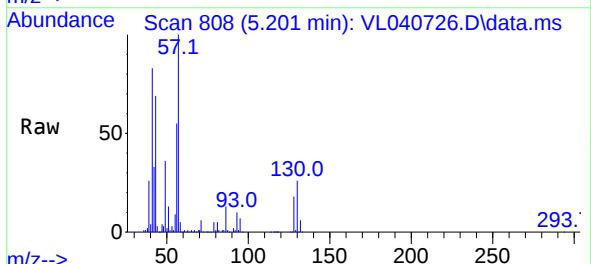
Instrument :
MSVOA_L
ClientSampleId :
SSG1DL

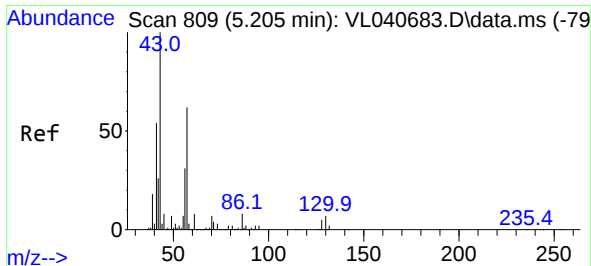
Tgt Ion: 84 Resp: 982129
Ion Ratio Lower Upper
84 100
49 148.4 114.4 171.6
51 45.9 35.5 53.3
86 65.7 53.2 79.8



#25
Ethyl Acetate
Concen: 1.923 ppbv
RT: 5.201 min Scan# 808
Delta R.T. -0.010 min
Lab File: VL040726.D
Acq: 27 Sep 2023 14:07

Tgt Ion: 43 Resp: 516724
Ion Ratio Lower Upper
43 100
45 1.8 8.2 12.4#
61 0.9 8.2 12.4#
70 2.0 5.9 8.9#

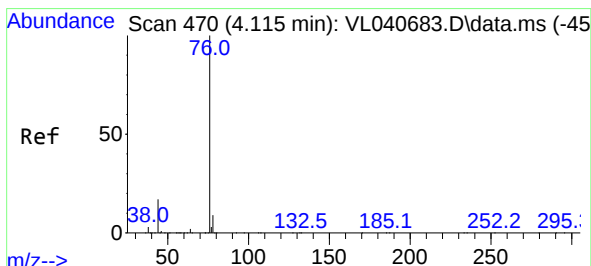
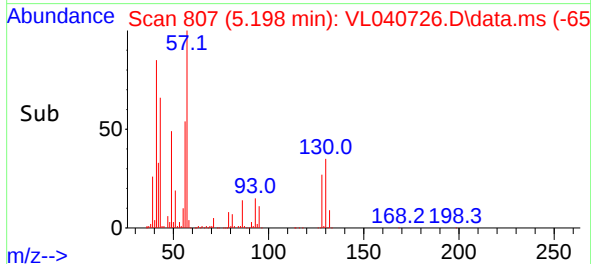
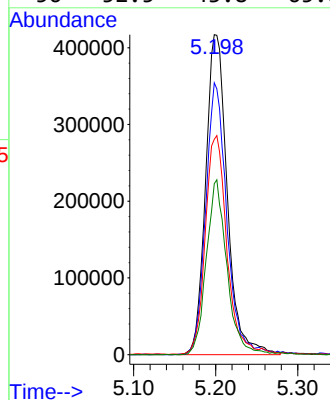
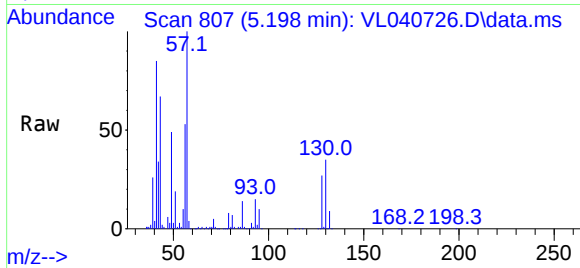




#26
Hexane
Concen: 6.032 ppbv
RT: 5.198 min Scan# 809
Delta R.T. -0.022 min
Lab File: VL040726.D
Acq: 27 Sep 2023 14:07

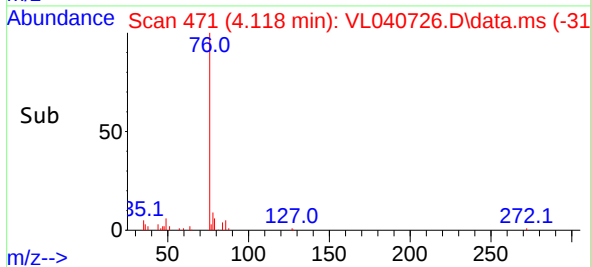
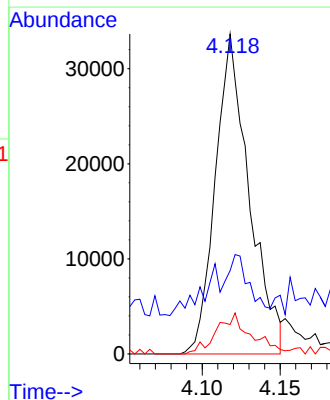
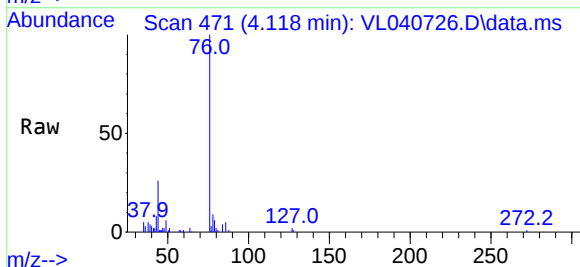
Instrument :
MSVOA_L
ClientSampleId :
SSG1DL

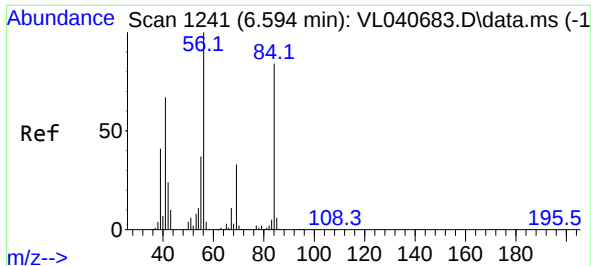
Tgt Ion: 57 Resp: 766580
Ion Ratio Lower Upper
57 100
41 83.6 75.2 112.8
43 69.1 185.6 278.4#
56 52.5 43.8 65.8



#27
Carbon Disulfide
Concen: 0.286 ppbv
RT: 4.118 min Scan# 471
Delta R.T. -0.013 min
Lab File: VL040726.D
Acq: 27 Sep 2023 14:07

Tgt Ion: 76 Resp: 50732
Ion Ratio Lower Upper
76 100
44 21.7 14.5 21.7
78 13.6 7.7 11.5#

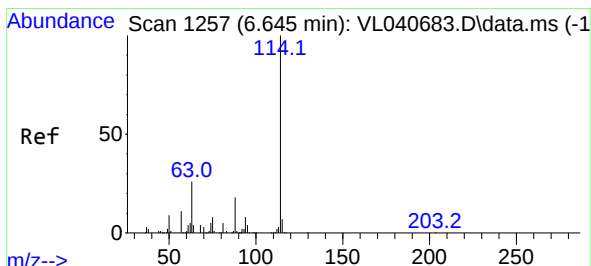
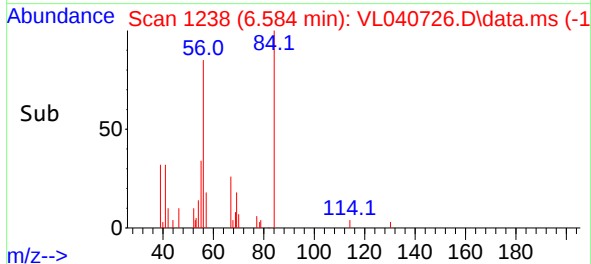
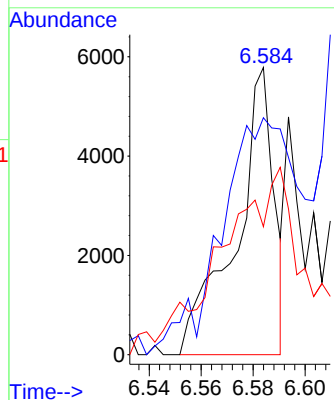
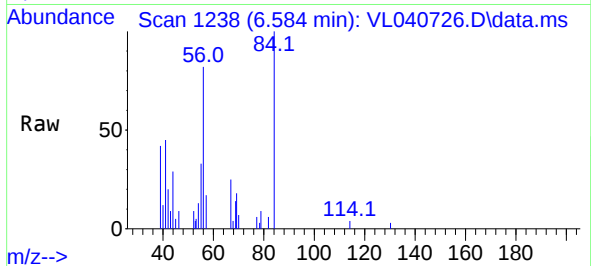




#30
Cyclohexane
Concen: 0.061 ppbv
RT: 6.584 min Scan# 11
Delta R.T. -0.026 min
Lab File: VL040726.D
Acq: 27 Sep 2023 14:07

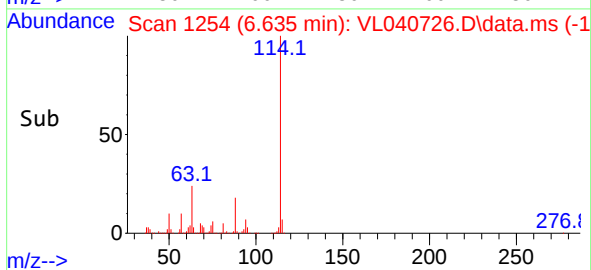
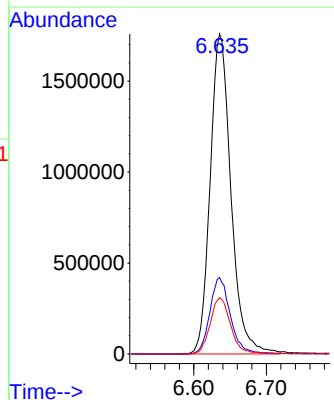
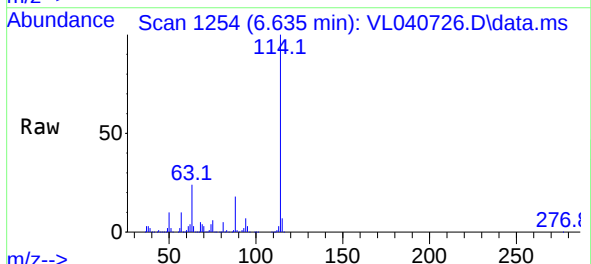
Instrument :
MSVOA_L
ClientSampleId :
SSG1DL

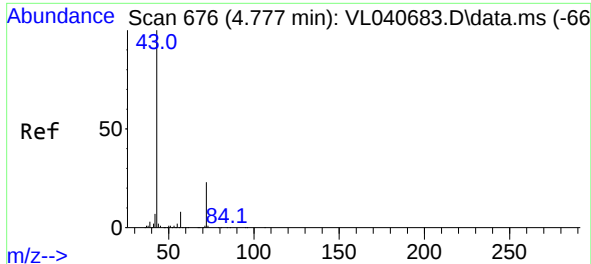
Tgt Ion: 84 Resp: 5880
Ion Ratio Lower Upper
84 100
56 0.0 103.2 154.8#
41 0.0 65.5 98.3#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.635 min Scan# 1254
Delta R.T. -0.026 min
Lab File: VL040726.D
Acq: 27 Sep 2023 14:07

Tgt Ion: 114 Resp: 3505081
Ion Ratio Lower Upper
114 100
63 23.8 21.1 31.7
88 17.3 14.5 21.7

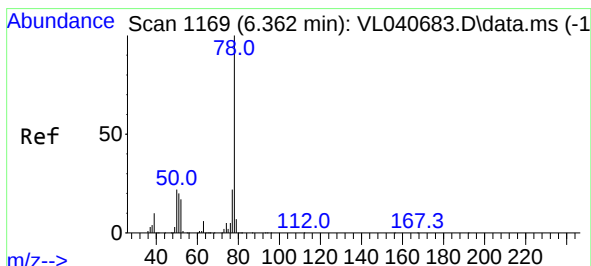
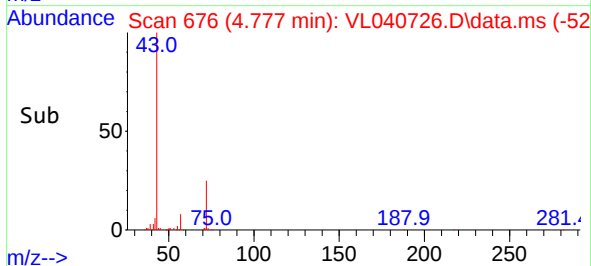
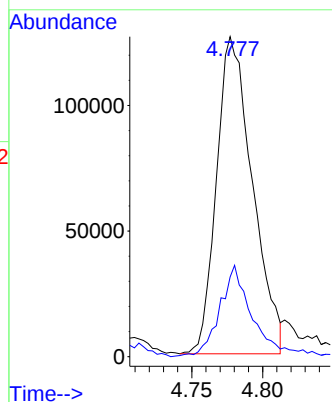
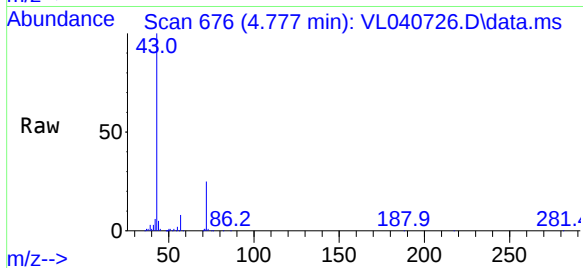




#34
2-Butanone
Concen: 1.264 ppbv
RT: 4.777 min Scan# 61
Delta R.T. -0.013 min
Lab File: VL040726.D
Acq: 27 Sep 2023 14:07

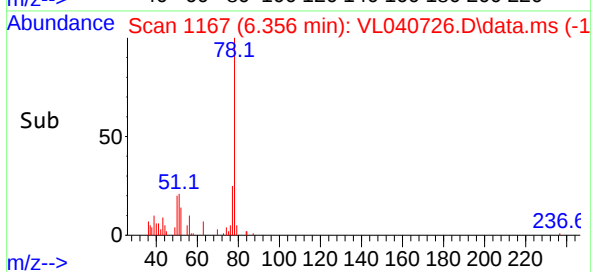
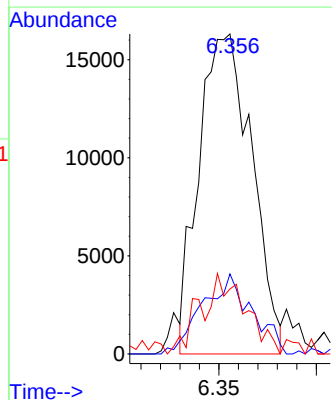
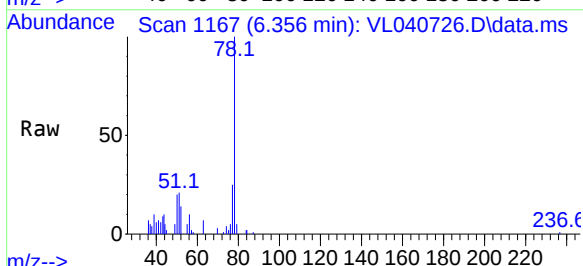
Instrument :
MSVOA_L
ClientSampleId :
SSG1DL

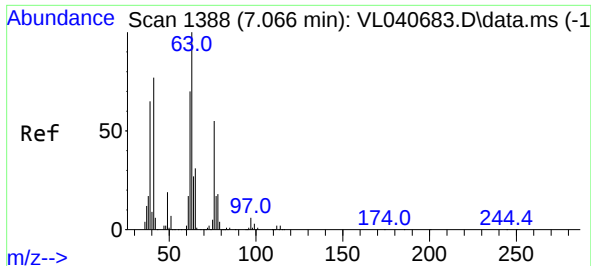
Tgt Ion: 43 Resp: 222744
Ion Ratio Lower Upper
43 100
72 26.6 18.6 27.8



#36
Benzene
Concen: 0.119 ppbv
RT: 6.356 min Scan# 1167
Delta R.T. -0.026 min
Lab File: VL040726.D
Acq: 27 Sep 2023 14:07

Tgt Ion: 78 Resp: 30778
Ion Ratio Lower Upper
78 100
77 24.1 17.9 26.9
50 22.3 17.3 25.9

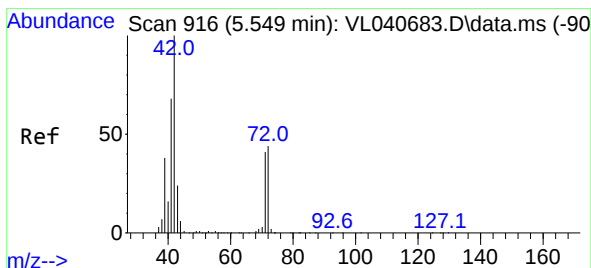
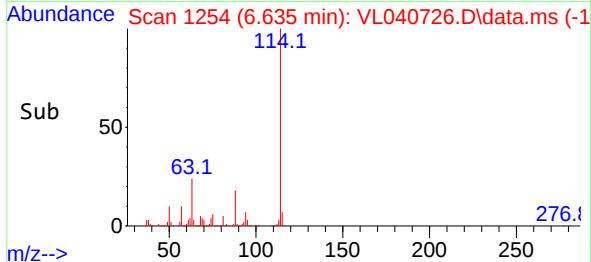
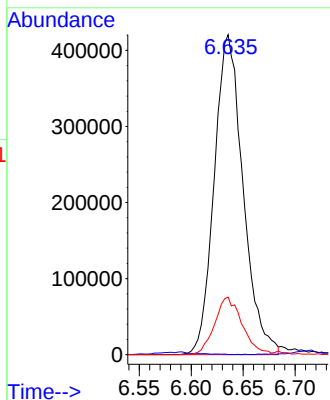
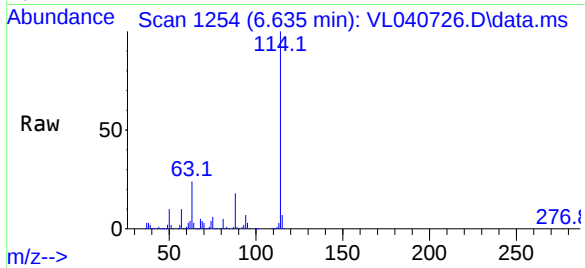




#39
1,2-Dichloropropane
Concen: 8.123 ppbv
RT: 6.635 min Scan# 11
Delta R.T. -0.447 min
Lab File: VL040726.D
Acq: 27 Sep 2023 14:07

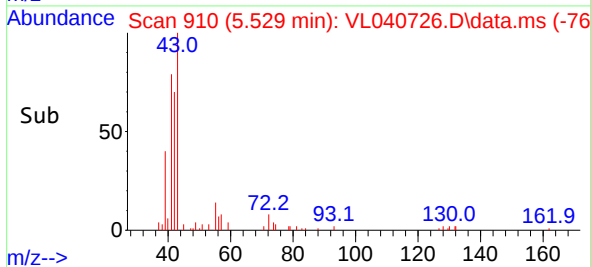
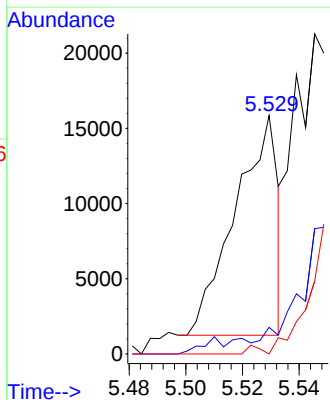
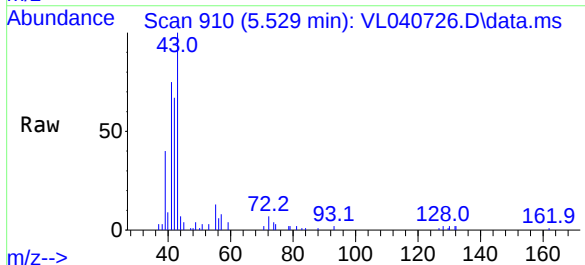
Instrument :
MSVOA_L
ClientSampleId :
SSG1DL

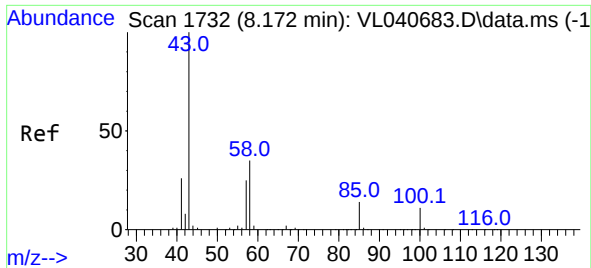
Tgt Ion: 63 Resp: 811552
Ion Ratio Lower Upper
63 100
41 0.0 61.6 92.4#
62 18.0 55.8 83.8#



#41
Tetrahydrofuran
Concen: 0.169 ppbv
RT: 5.529 min Scan# 910
Delta R.T. -0.032 min
Lab File: VL040726.D
Acq: 27 Sep 2023 14:07

Tgt Ion: 42 Resp: 15242
Ion Ratio Lower Upper
42 100
72 0.0 34.9 52.3#
71 0.0 33.8 50.8#

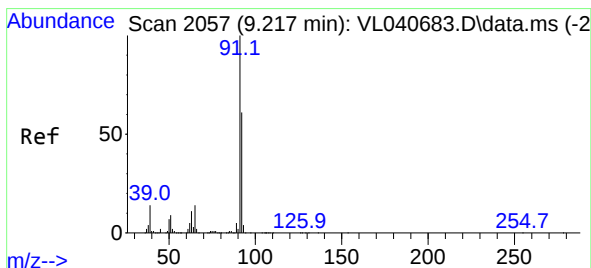
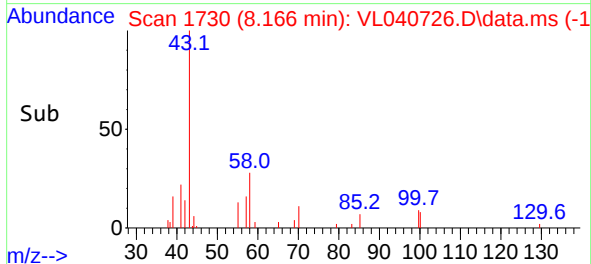
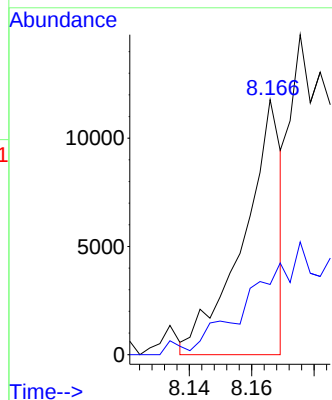
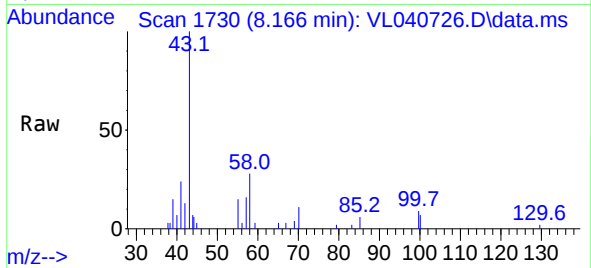




#50
4-Methyl-2-Pentanone
Concen: 0.042 ppbv
RT: 8.166 min Scan# 1
Delta R.T. -0.026 min
Lab File: VL040726.D
Acq: 27 Sep 2023 14:07

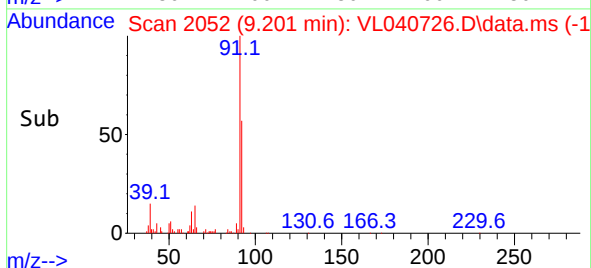
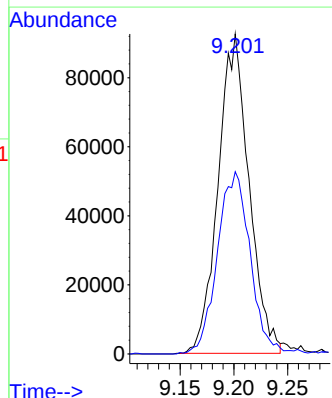
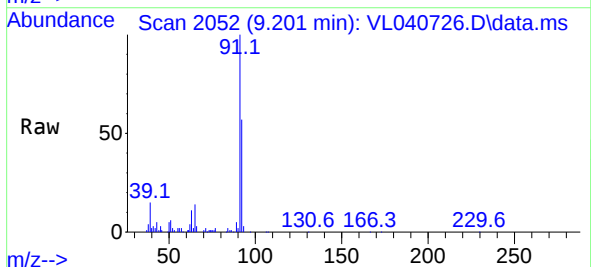
Instrument :
MSVOA_L
ClientSampleId :
SSG1DL

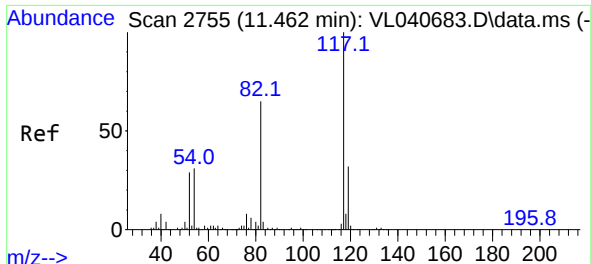
Tgt Ion: 43 Resp: 9984
Ion Ratio Lower Upper
43 100
58 0.0 28.2 42.4#



#53
Toluene
Concen: 0.672 ppbv
RT: 9.201 min Scan# 2052
Delta R.T. -0.029 min
Lab File: VL040726.D
Acq: 27 Sep 2023 14:07

Tgt Ion: 91 Resp: 184132
Ion Ratio Lower Upper
91 100
92 61.6 48.5 72.7

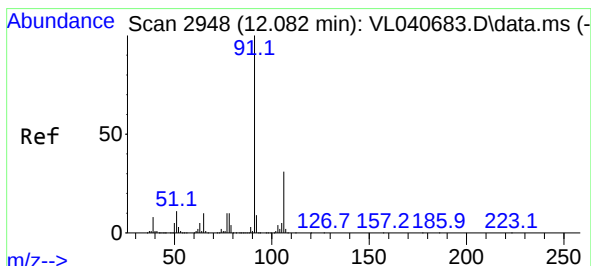
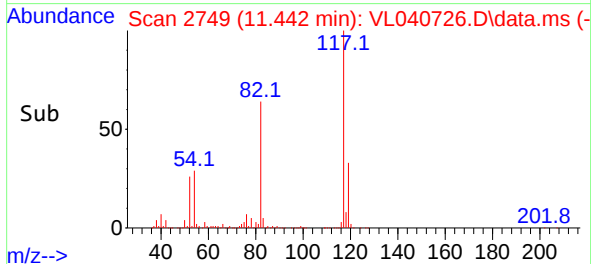
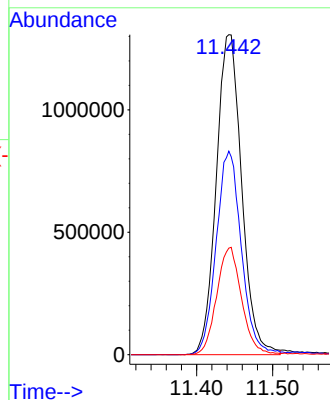
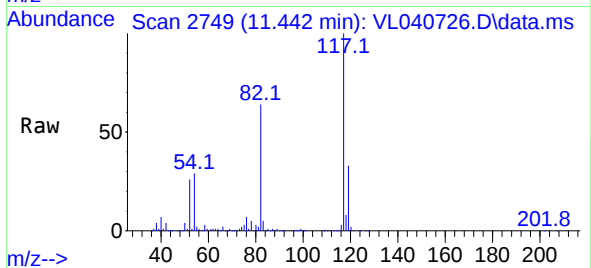




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.442 min Scan# 21
Delta R.T. -0.035 min
Lab File: VL040726.D
Acq: 27 Sep 2023 14:07

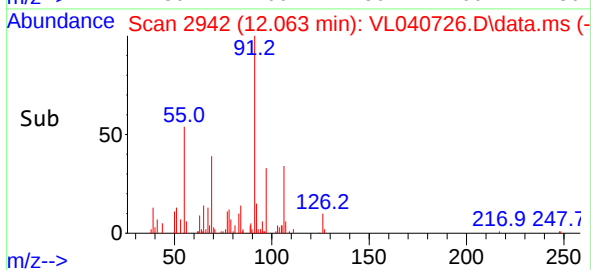
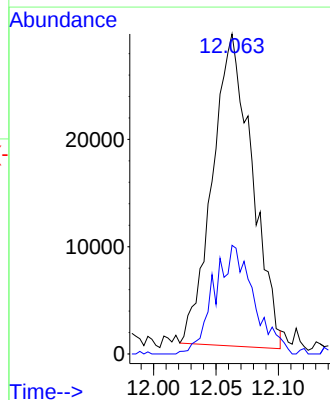
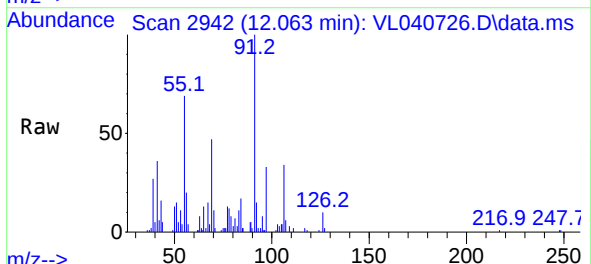
Instrument :
MSVOA_L
ClientSampleId :
SSG1DL

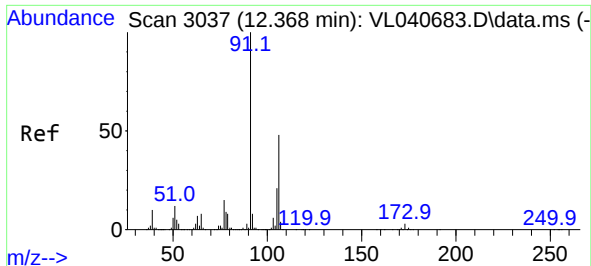
Tgt Ion:117 Resp: 3038179
Ion Ratio Lower Upper
117 100
82 63.9 51.4 77.0
119 33.5 24.7 37.1



#58
Ethyl Benzene
Concen: 0.185 ppbv
RT: 12.063 min Scan# 2942
Delta R.T. -0.039 min
Lab File: VL040726.D
Acq: 27 Sep 2023 14:07

Tgt Ion: 91 Resp: 64253
Ion Ratio Lower Upper
91 100
106 34.3 24.7 37.1





#59

m/p-Xylene

Concen: 0.211 ppbv

RT: 12.339 min Scan# 3037

Delta R.T. -0.042 min

Lab File: VL040726.D

Acq: 27 Sep 2023 14:07

Instrument :

MSVOA_L

ClientSampleId :

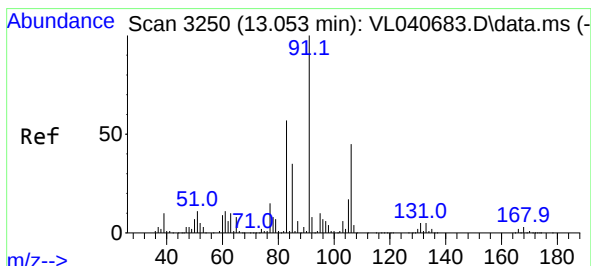
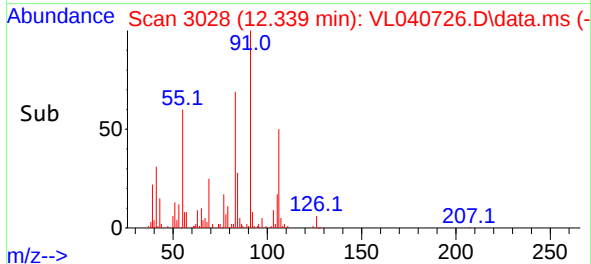
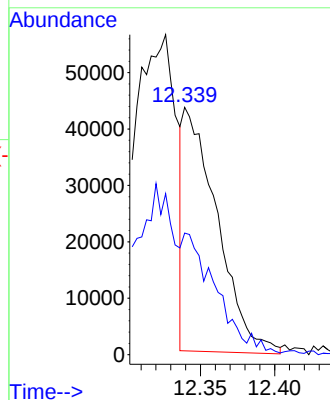
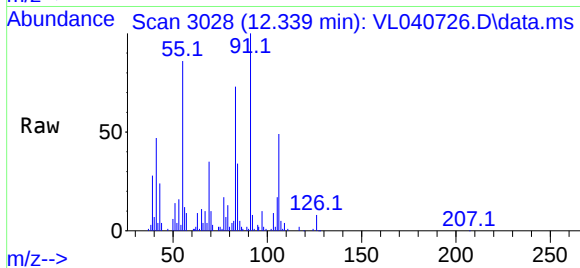
SSG1DL

Tgt Ion: 91 Resp: 68687

Ion Ratio Lower Upper

91 100

106 0.0 34.8 52.2#



#60

o-Xylene

Concen: 0.066 ppbv

RT: 13.024 min Scan# 3241

Delta R.T. -0.045 min

Lab File: VL040726.D

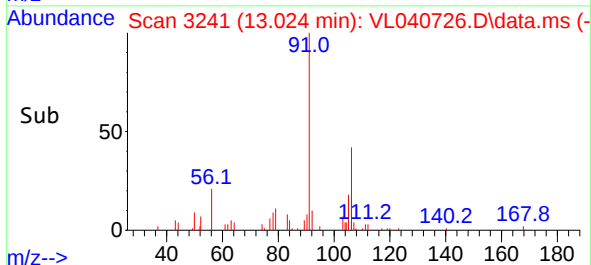
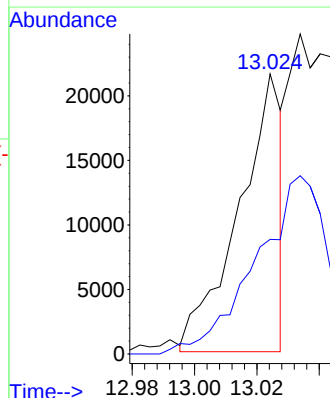
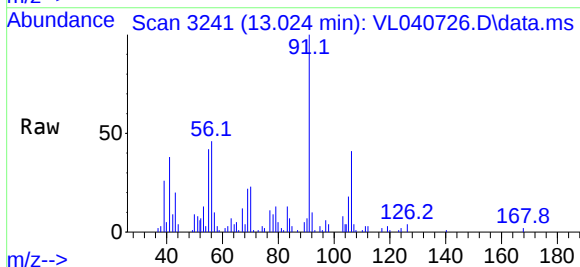
Acq: 27 Sep 2023 14:07

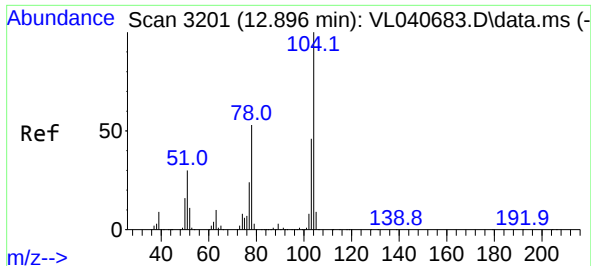
Tgt Ion: 91 Resp: 20590

Ion Ratio Lower Upper

91 100

106 0.0 22.3 66.9#

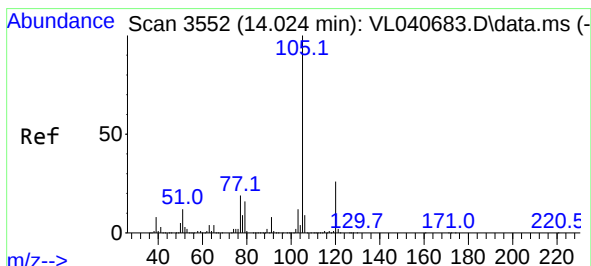
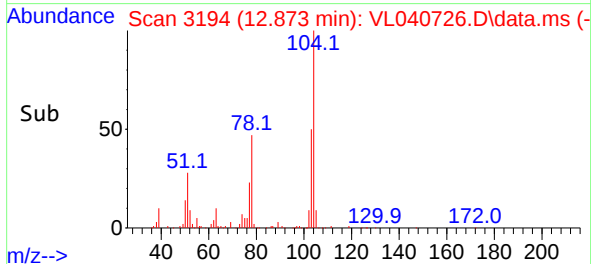
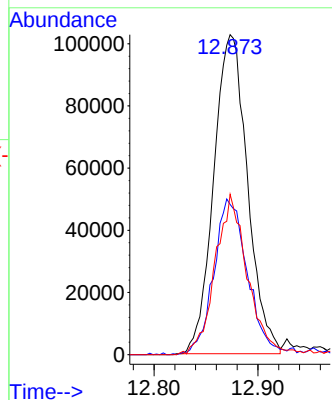
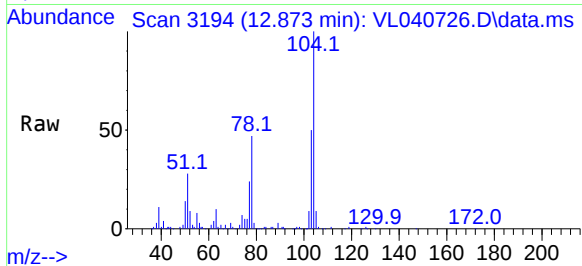




#61
Styrene
Concen: 1.780 ppbv
RT: 12.873 min Scan# 3194
Delta R.T. -0.032 min
Lab File: VL040726.D
Acq: 27 Sep 2023 14:07

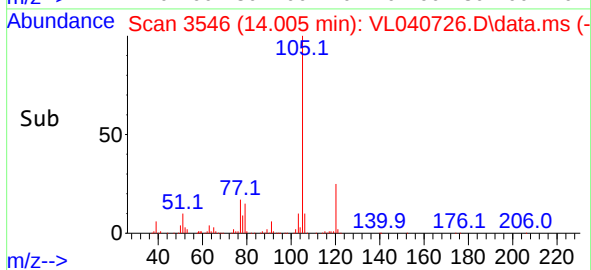
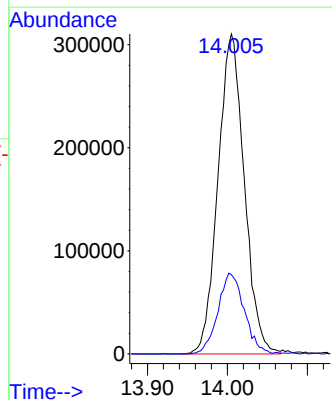
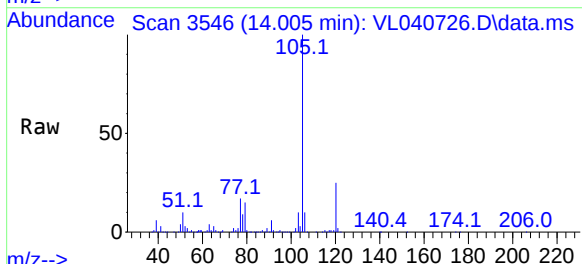
Instrument :
MSVOA_L
ClientSampleId :
SSG1DL

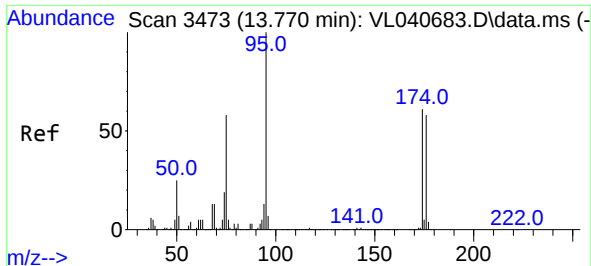
Tgt Ion:104 Resp: 231426
Ion Ratio Lower Upper
104 100
78 49.2 43.4 65.0
103 49.0 37.2 55.8



#62
Isopropylbenzene
Concen: 1.511 ppbv
RT: 14.005 min Scan# 3546
Delta R.T. -0.032 min
Lab File: VL040726.D
Acq: 27 Sep 2023 14:07

Tgt Ion:105 Resp: 707563
Ion Ratio Lower Upper
105 100
120 25.4 20.2 30.4

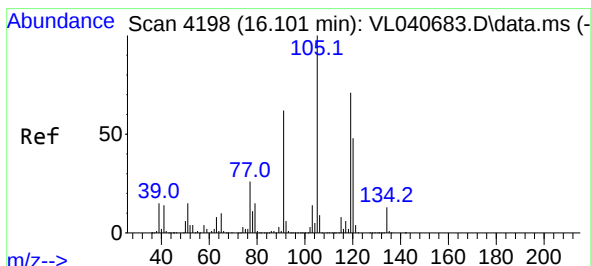
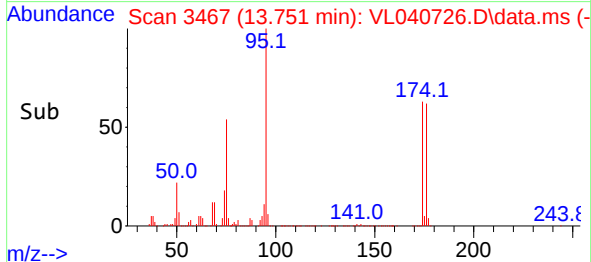
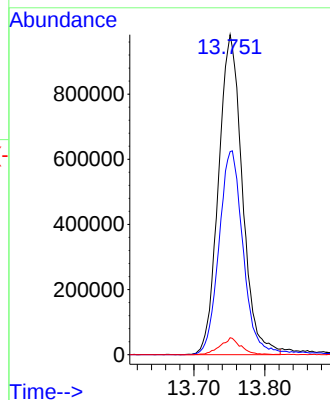
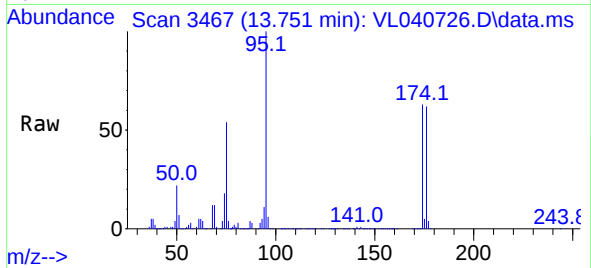




#68
1-Bromo-4-Fluorobenzene
Concen: 9.788 ppbv
RT: 13.751 min Scan# 3473
Delta R.T. -0.035 min
Lab File: VL040726.D
Acq: 27 Sep 2023 14:07

Instrument :
MSVOA_L
ClientSampleId :
SSG1DL

Tgt Ion: 95 Resp: 2297650
Ion Ratio Lower Upper
95 100
174 65.8 48.9 73.3
175 4.7 3.5 5.3



#74
1,2,4-Trimethylbenzene
Concen: 0.143 ppbv
RT: 16.082 min Scan# 4192
Delta R.T. -0.035 min
Lab File: VL040726.D
Acq: 27 Sep 2023 14:07

Tgt Ion:105 Resp: 54768
Ion Ratio Lower Upper
105 100
120 34.3 38.6 57.8#
91 10.8 50.0 75.0#
77 17.9 20.6 31.0#

