

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL031623\
 Data File : VL040291.D
 Acq On : 16 Mar 2023 11:58
 Operator : SY/MD
 Sample : 01933-01 2X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SSSG-1

Quant Time: Mar 17 04:13:50 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL031523AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Mar 15 16:14:43 2023
 Response via : Initial Calibration

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

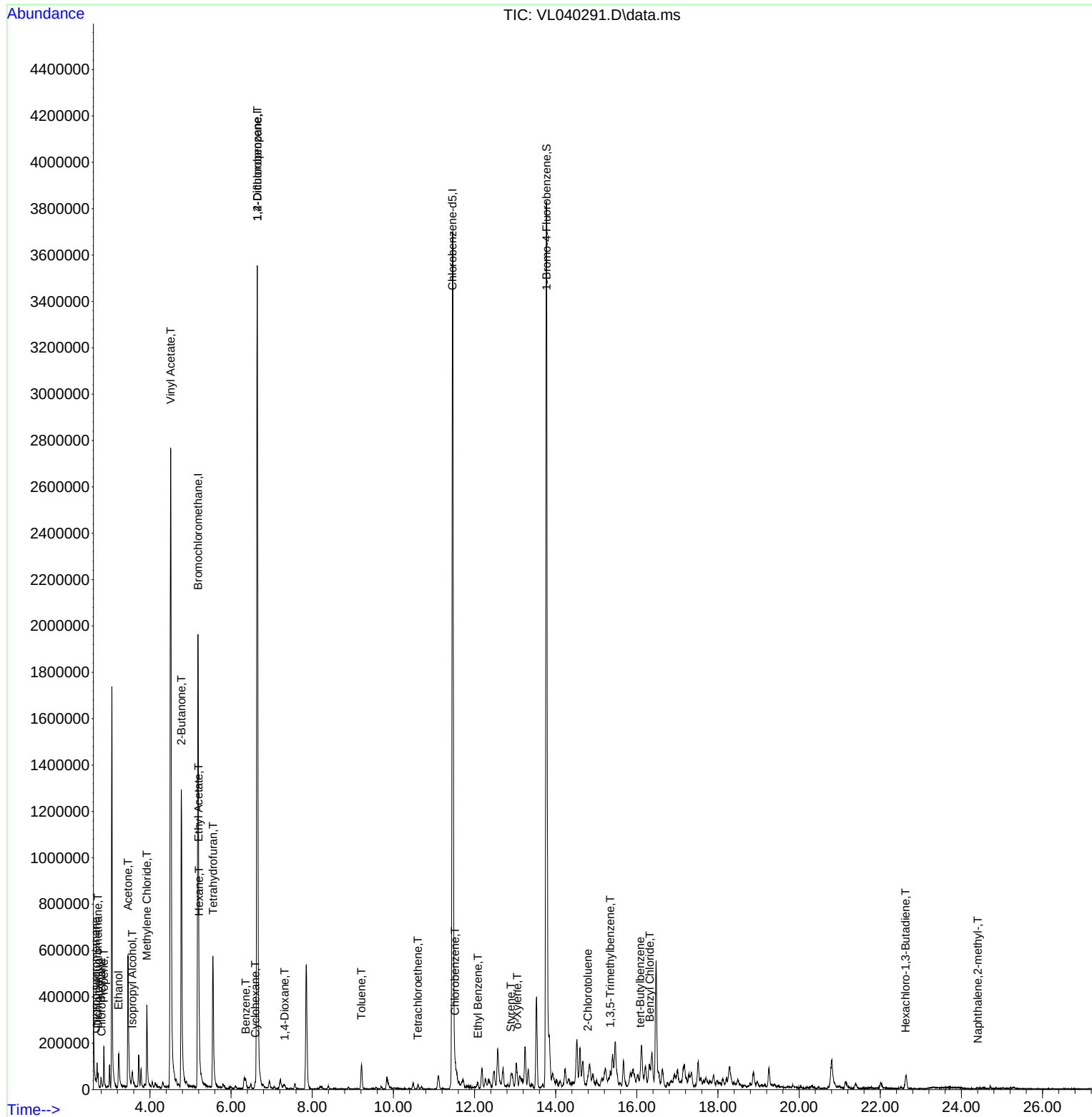
Internal Standards						
1) Bromochloromethane	5.185	49	992897	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.645	114	2671859	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.459	117	2358161	10.000	ppbv	-0.02
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.774	95	1931389	9.780	ppbv	-0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.800%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.723	85	34300	0.176	ppbv	95
3) Chlorodifluoromethane	2.668	51	31003	0.248	ppbv #	88
4) Chloromethane	2.806	50	19591	0.254	ppbv	97
9) Propene	2.867	41	39567	0.827	ppbv	89
13) Ethanol	3.227	45	167465	47.737	ppbv	98
15) Acetone	3.459	43	569141	4.708	ppbv	92
19) Isopropyl Alcohol	3.568	45	39065	0.675	ppbv #	1
20) Methylene Chloride	3.925	84	118988	2.340	ppbv	98
23) Vinyl Acetate	4.513	43	193230	5.746	ppbv #	78
25) Ethyl Acetate	5.202	43	50249	0.222	ppbv #	91
26) Hexane	5.208	57	61434	0.661	ppbv #	45
30) Cyclohexane	6.600	84	7740	0.106	ppbv #	11
34) 2-Butanone	4.774	43	1541339	11.689	ppbv	99
36) Benzene	6.359	78	22426	0.110	ppbv #	85
39) 1,2-Dichloropropane	6.645	63	667720	8.358	ppbv #	24
40) 1,4-Dioxane	7.320	88	1024	0.032	ppbv #	55
41) Tetrahydrofuran	5.555	42	333426	4.381	ppbv	99
52) Tetrachloroethene	10.606	164	2440	0.040	ppbv #	59
53) Toluene	9.214	91	79073	0.371	ppbv	96
57) Chlorobenzene	11.523	112	6010	0.036	ppbv #	37
58) Ethyl Benzene	12.082	91	8849	0.033	ppbv	92
60) o-Xylene	13.053	91	16625	0.071	ppbv	87
61) Styrene	12.893	104	5979	0.050	ppbv #	16
65) tert-Butylbenzene	16.082	119	12524	0.043	ppbv #	14
66) Benzyl Chloride	16.317	91	605	0.032	ppbv #	62
71) 2-Chlorotoluene	14.793	91	11237	0.044	ppbv	69
73) 1,3,5-Trimethylbenzene	15.346	105	7714	0.033	ppbv #	51
78) Hexachloro-1,3-Butadiene	22.622	225	5418	0.053	ppbv #	1
80) Naphthalene,2-methyl-	24.403	142	2318	0.058	ppbv	84

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

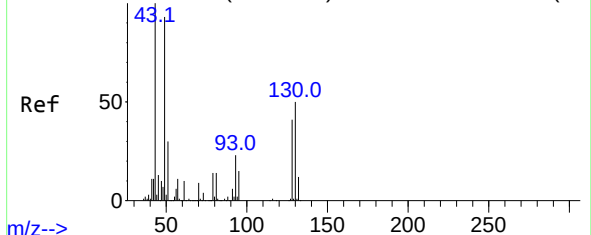
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL031623\
Data File : VL040291.D
Acq On : 16 Mar 2023 11:58
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Quant Time: Mar 17 04:13:50 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL031523AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
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Response via : Initial Calibration

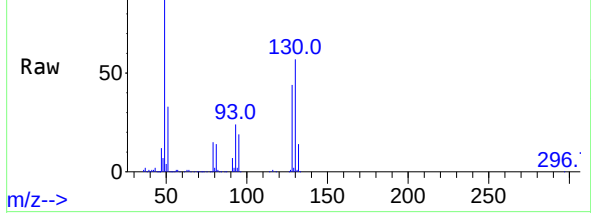


Abundance Scan 804 (5.189 min): VL040279.D\data.ms (-78)



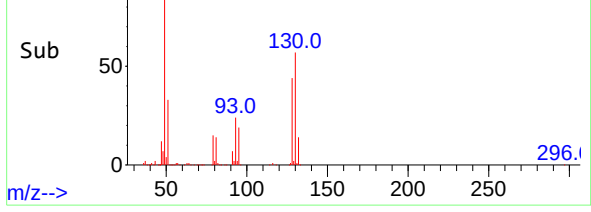
m/z-->

Abundance Scan 803 (5.185 min): VL040291.D\data.ms



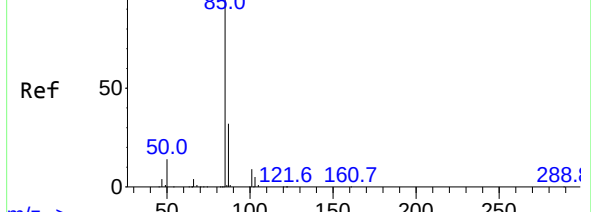
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Abundance Scan 803 (5.185 min): VL040291.D\data.ms (-64)



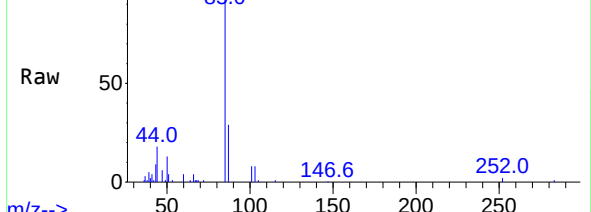
m/z-->

Abundance Scan 36 (2.719 min): VL040279.D\data.ms (-28)



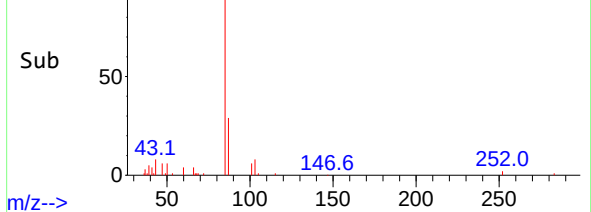
m/z-->

Abundance Scan 37 (2.723 min): VL040291.D\data.ms



m/z-->

Abundance Scan 37 (2.723 min): VL040291.D\data.ms (-1)



m/z-->

#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.185 min Scan# 80

Delta R.T. -0.004 min

Lab File: VL040291.D

Acq: 16 Mar 2023 11:58

Instrument :

MSVOA_1

ClientSampleId :

SSSG-1

Tgt Ion: 49 Resp: 992897

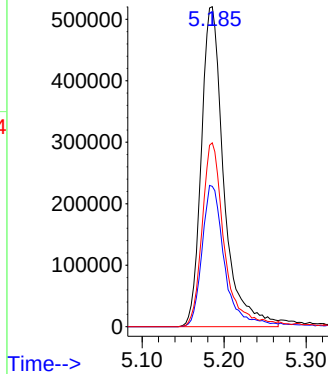
Ion Ratio Lower Upper

49 100

128 45.5 22.4 67.3

130 58.5 28.7 86.1

Abundance



Time-->

#2

Dichlorodifluoromethane

Concen: 0.176 ppbv

RT: 2.723 min Scan# 37

Delta R.T. 0.004 min

Lab File: VL040291.D

Acq: 16 Mar 2023 11:58

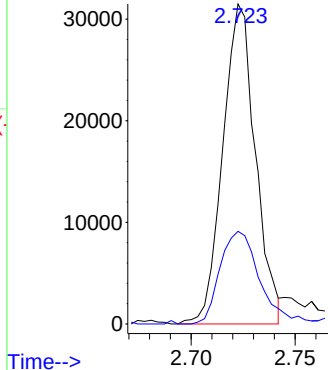
Tgt Ion: 85 Resp: 34300

Ion Ratio Lower Upper

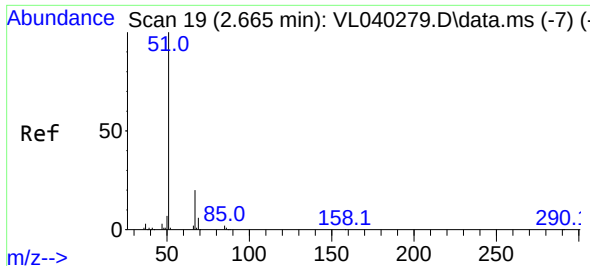
85 100

87 28.9 25.5 38.3

Abundance



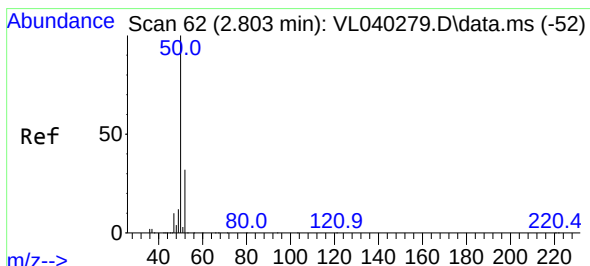
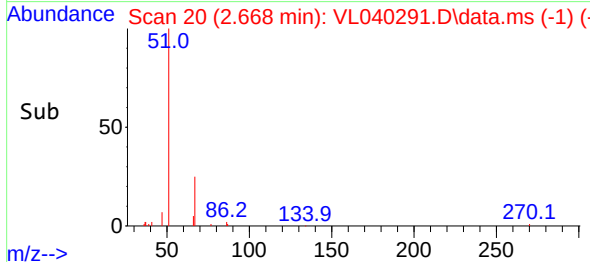
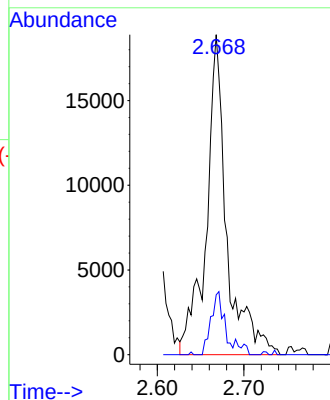
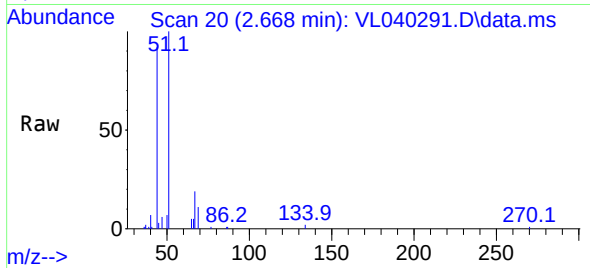
Time-->



#3
Chlorodifluoromethane
Concen: 0.248 ppbv
RT: 2.668 min Scan# 20
Delta R.T. 0.003 min
Lab File: VL040291.D
Acq: 16 Mar 2023 11:58

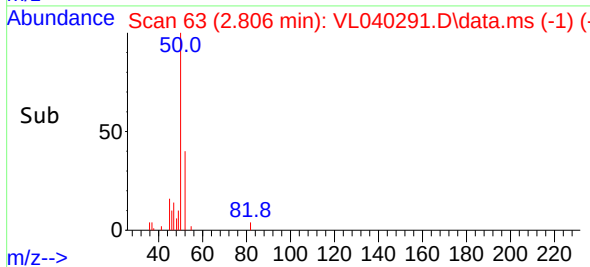
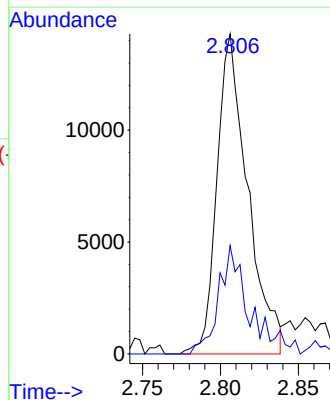
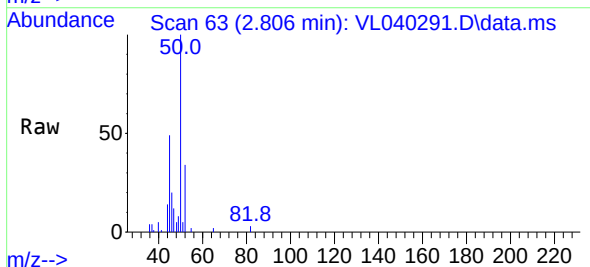
Instrument :
MSVOA_1
ClientSampleId :
SSSG-1

Tgt Ion: 51 Resp: 31003
Ion Ratio Lower Upper
51 100
67 14.7 16.0 24.0#

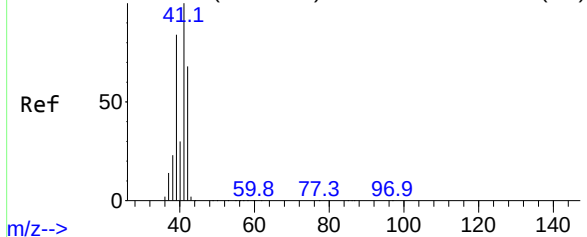


#4
Chloromethane
Concen: 0.254 ppbv
RT: 2.806 min Scan# 63
Delta R.T. 0.003 min
Lab File: VL040291.D
Acq: 16 Mar 2023 11:58

Tgt Ion: 50 Resp: 19591
Ion Ratio Lower Upper
50 100
52 33.8 25.9 38.9



Abundance Scan 25 (2.684 min): VL040279.D\data.ms (-15)



#9

Propene

Concen: 0.827 ppbv

RT: 2.867 min Scan# 81

Delta R.T. 0.183 min

Lab File: VL040291.D

Acq: 16 Mar 2023 11:58

Instrument :

MSVOA_1

ClientSampleId :

SSSG-1

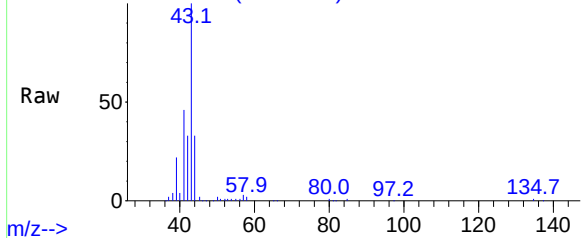
Tgt Ion: 41 Resp: 39567

Ion Ratio Lower Upper

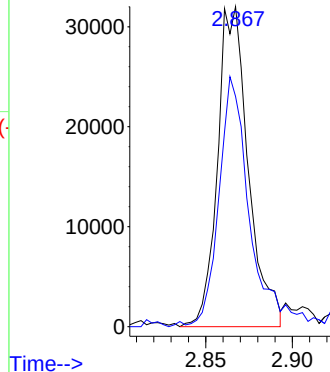
41 100

42 83.3 59.0 88.4

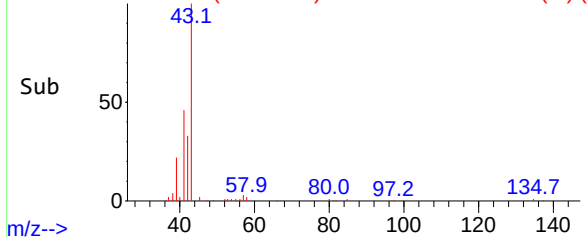
Abundance Scan 82 (2.867 min): VL040291.D\data.ms



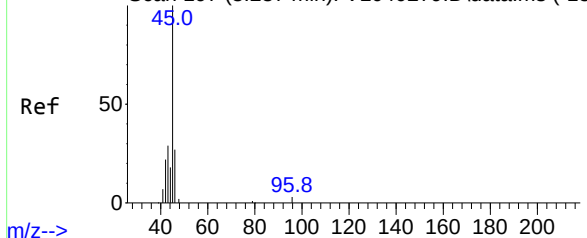
Abundance



Abundance Scan 82 (2.867 min): VL040291.D\data.ms (-1) (-)



Abundance Scan 197 (3.237 min): VL040279.D\data.ms (-18)



#13

Ethanol

Concen: 47.737 ppbv

RT: 3.227 min Scan# 194

Delta R.T. -0.010 min

Lab File: VL040291.D

Acq: 16 Mar 2023 11:58

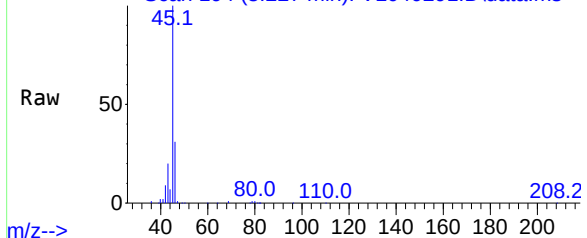
Tgt Ion: 45 Resp: 167465

Ion Ratio Lower Upper

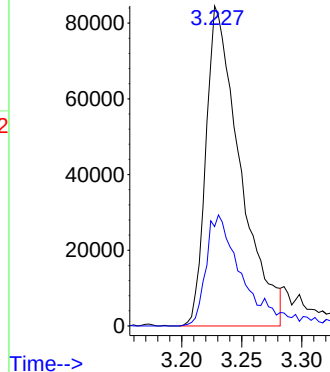
45 100

46 38.5 15.0 60.2

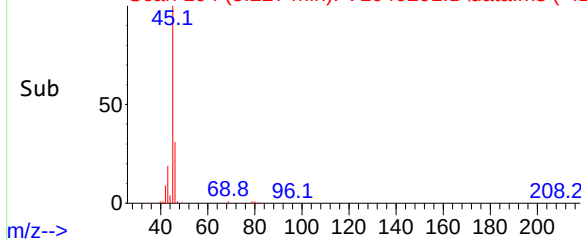
Abundance Scan 194 (3.227 min): VL040291.D\data.ms

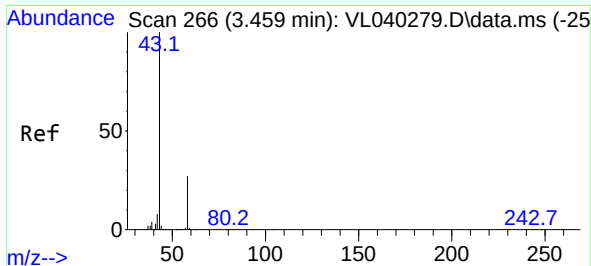


Abundance



Abundance Scan 194 (3.227 min): VL040291.D\data.ms (-42)

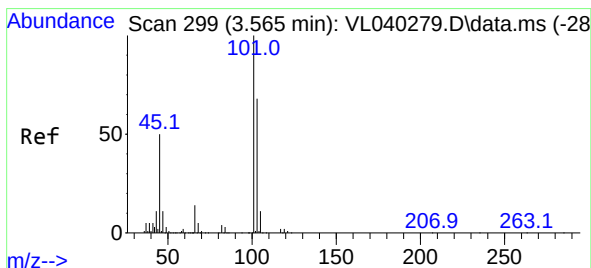
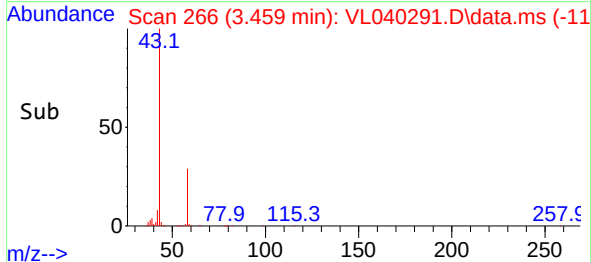
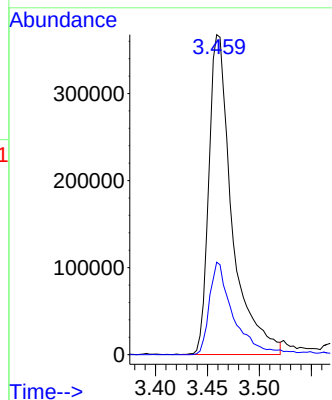
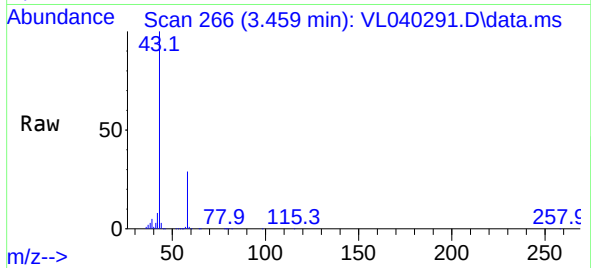




#15
Acetone
Concen: 4.708 ppbv
RT: 3.459 min Scan# 20
Delta R.T. -0.000 min
Lab File: VL040291.D
Acq: 16 Mar 2023 11:58

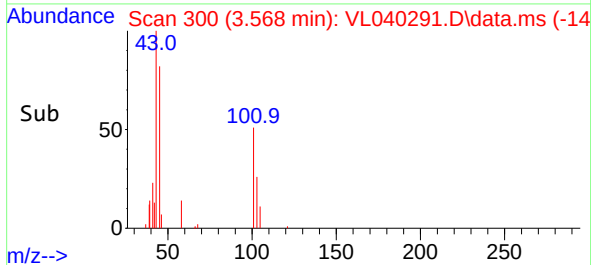
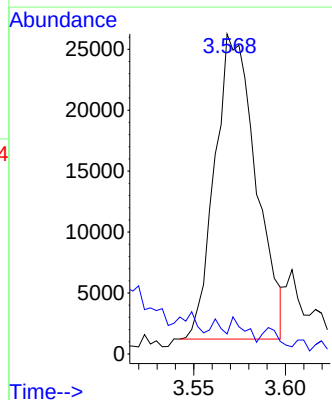
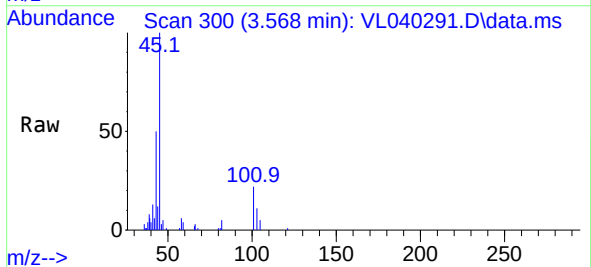
Instrument :
MSVOA_1
ClientSampleId :
SSSG-1

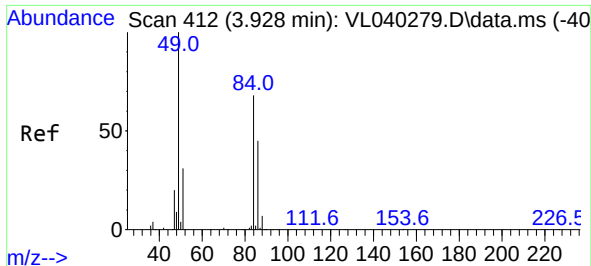
Tgt Ion: 43 Resp: 569141
Ion Ratio Lower Upper
43 100
58 31.5 21.8 32.8



#19
Isopropyl Alcohol
Concen: 0.675 ppbv
RT: 3.568 min Scan# 300
Delta R.T. 0.003 min
Lab File: VL040291.D
Acq: 16 Mar 2023 11:58

Tgt Ion: 45 Resp: 39065
Ion Ratio Lower Upper
45 100
58 459.1 2.7 4.1#

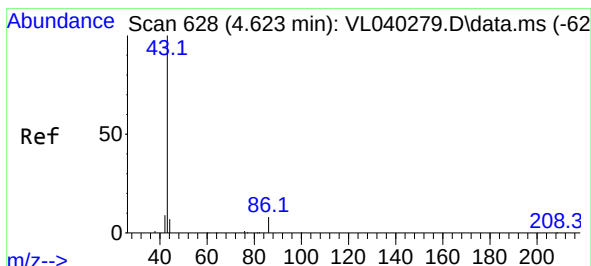
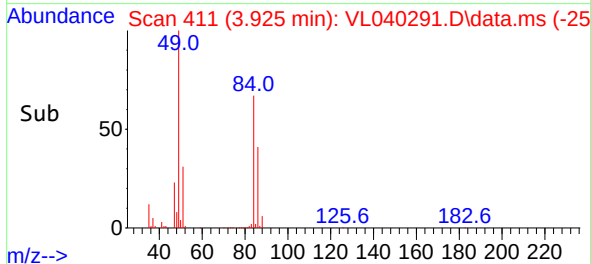
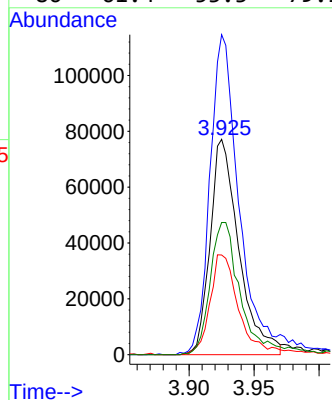
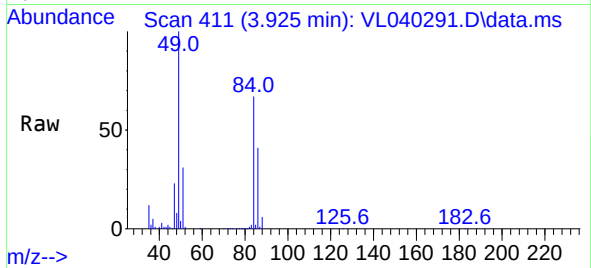




#20
Methylene Chloride
Concen: 2.340 ppbv
RT: 3.925 min Scan# 412
Delta R.T. -0.003 min
Lab File: VL040291.D
Acq: 16 Mar 2023 11:58

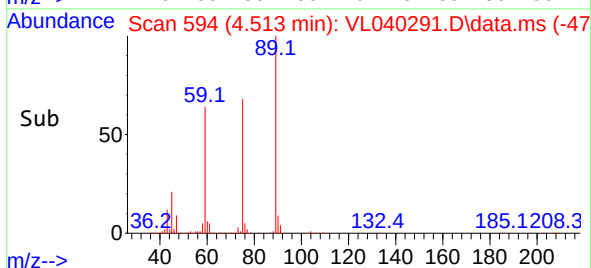
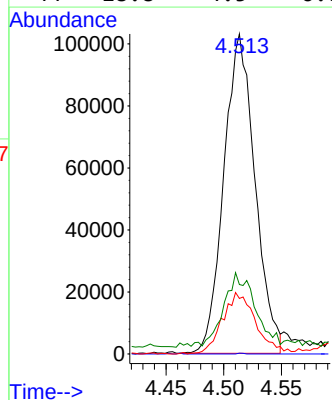
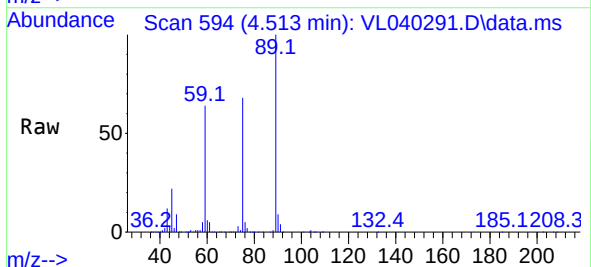
Instrument :
MSVOA_1
ClientSampleId :
SSSG-1

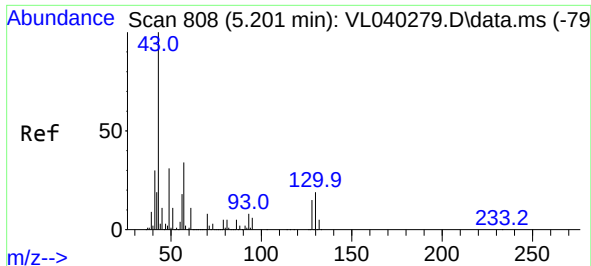
Tgt Ion: 84 Resp: 118988
Ion Ratio Lower Upper
84 100
49 147.6 117.5 176.3
51 46.3 36.9 55.3
86 61.4 53.3 79.9



#23
Vinyl Acetate
Concen: 5.746 ppbv
RT: 4.513 min Scan# 594
Delta R.T. -0.110 min
Lab File: VL040291.D
Acq: 16 Mar 2023 11:58

Tgt Ion: 43 Resp: 193230
Ion Ratio Lower Upper
43 100
86 0.2 5.0 7.4#
42 17.2 9.1 13.7#
44 18.8 4.5 6.7#

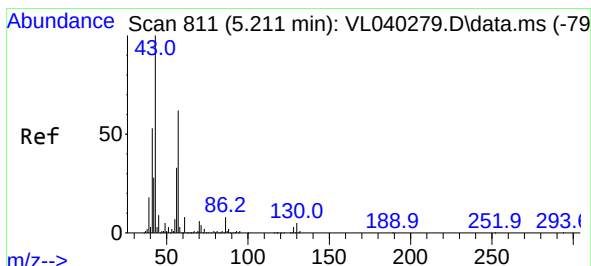
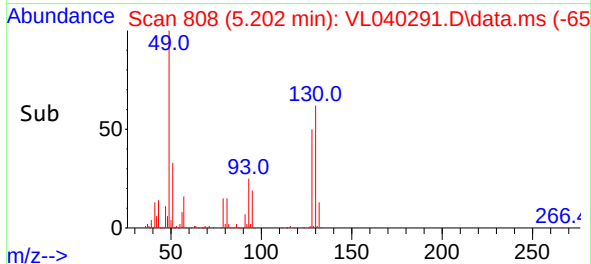
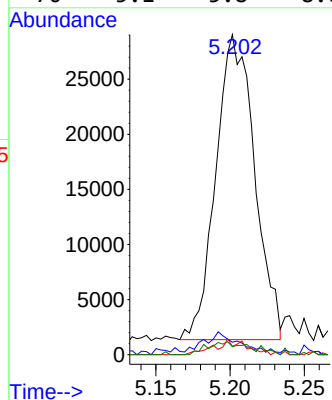
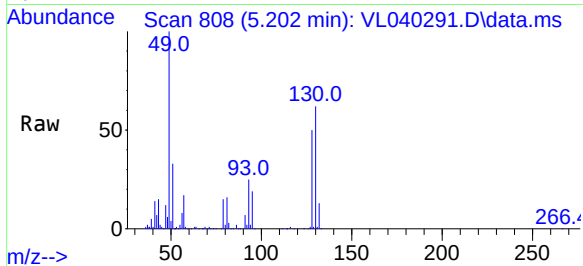




#25
Ethyl Acetate
Concen: 0.222 ppbv
RT: 5.202 min Scan# 80
Delta R.T. 0.001 min
Lab File: VL040291.D
Acq: 16 Mar 2023 11:58

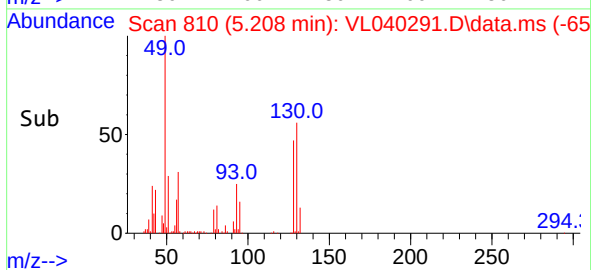
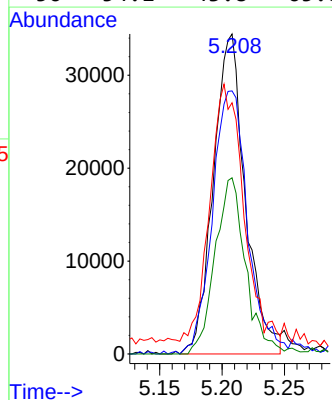
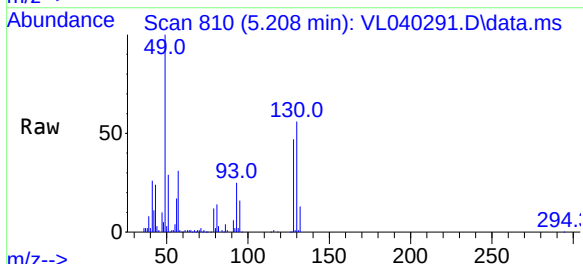
Instrument :
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ClientSampleId :
SSSG-1

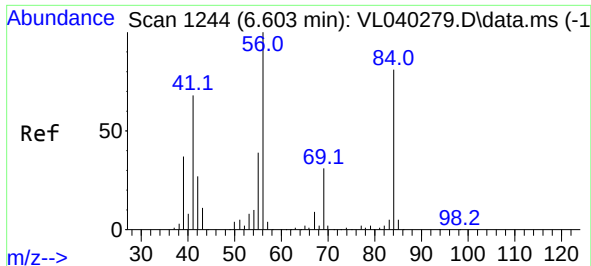
Tgt Ion: 43	Resp: 50249
Ion Ratio	Lower Upper
43 100	
45 9.9	8.6 12.8
61 4.0	8.4 12.6#
70 5.1	5.8 8.6#



#26
Hexane
Concen: 0.661 ppbv
RT: 5.208 min Scan# 810
Delta R.T. -0.003 min
Lab File: VL040291.D
Acq: 16 Mar 2023 11:58

Tgt Ion: 57	Resp: 61434
Ion Ratio	Lower Upper
57 100	
41 92.9	73.5 110.3
43 94.7	196.3 294.5#
56 54.1	43.8 65.8

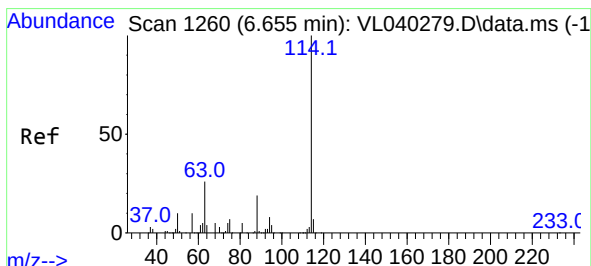
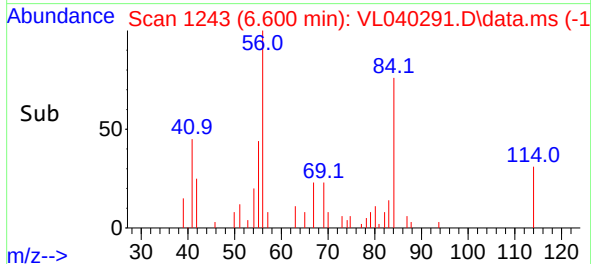
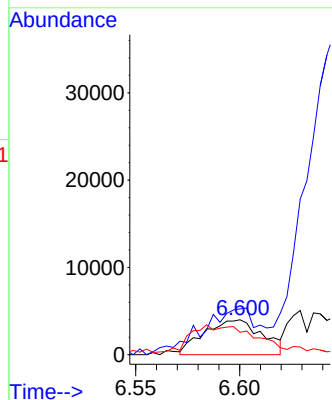
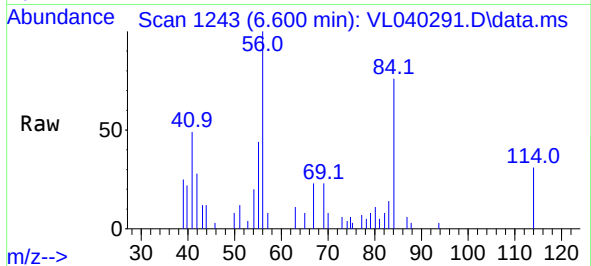




#30
Cyclohexane
Concen: 0.106 ppbv
RT: 6.600 min Scan# 11
Delta R.T. -0.003 min
Lab File: VL040291.D
Acq: 16 Mar 2023 11:58

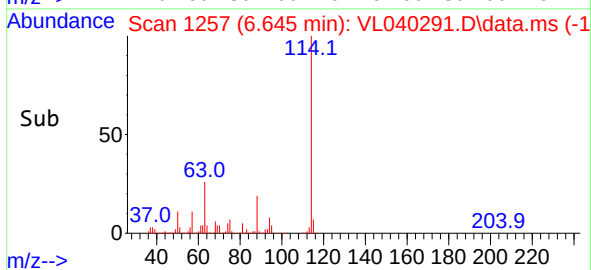
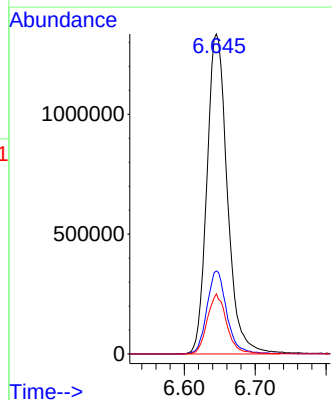
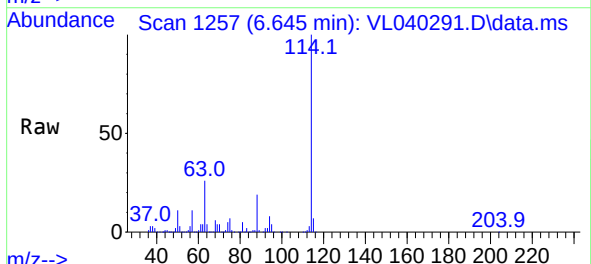
Instrument :
MSVOA_1
ClientSampleId :
SSSG-1

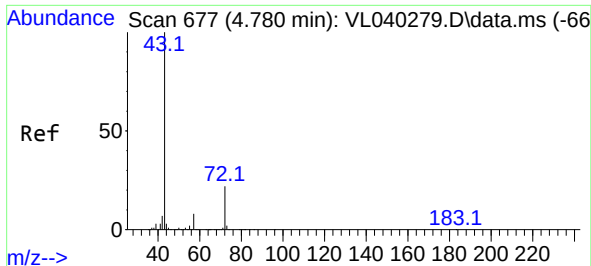
Tgt Ion: 84 Resp: 7740
Ion Ratio Lower Upper
84 100
56 0.0 109.0 163.4#
41 130.6 67.9 101.9#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.645 min Scan# 1257
Delta R.T. -0.010 min
Lab File: VL040291.D
Acq: 16 Mar 2023 11:58

Tgt Ion: 114 Resp: 2671859
Ion Ratio Lower Upper
114 100
63 25.5 21.2 31.8
88 18.0 14.5 21.7

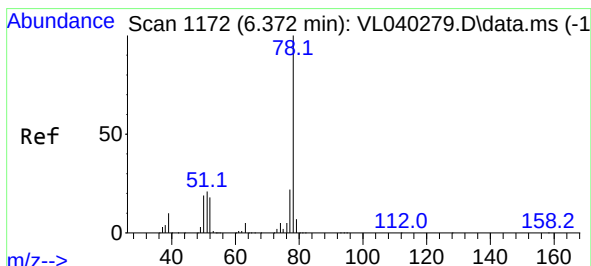
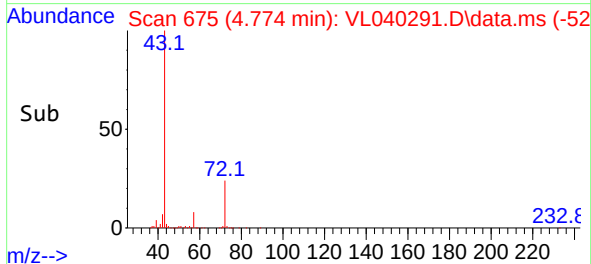
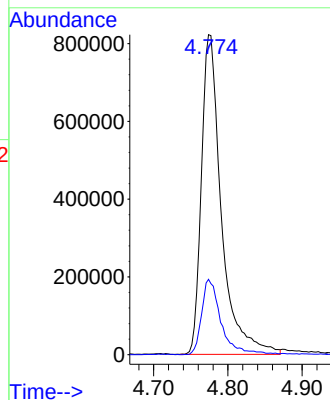
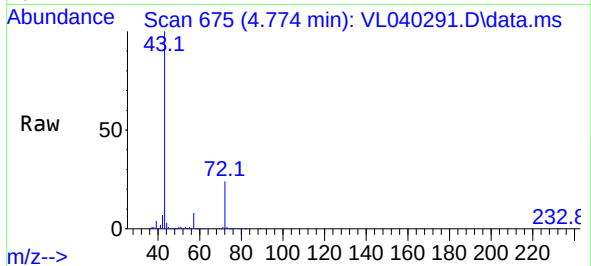




#34
2-Butanone
Concen: 11.689 ppbv
RT: 4.774 min Scan# 61
Delta R.T. -0.006 min
Lab File: VL040291.D
Acq: 16 Mar 2023 11:58

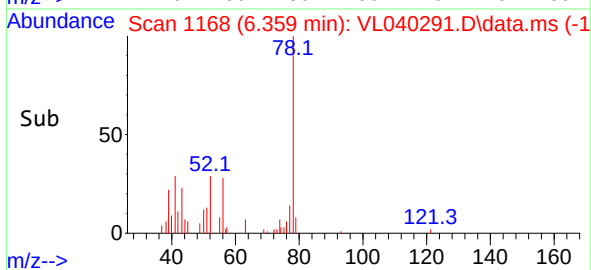
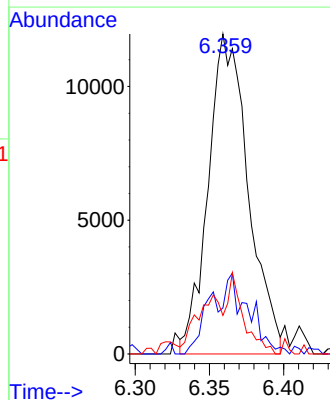
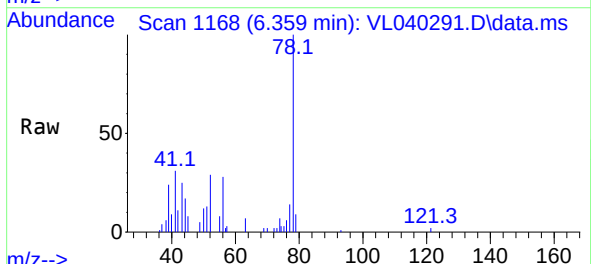
Instrument :
MSVOA_1
ClientSampleId :
SSSG-1

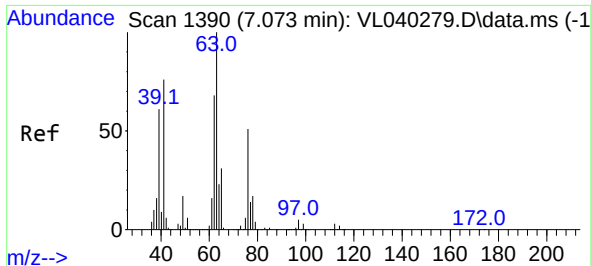
Tgt Ion: 43 Resp: 1541339
Ion Ratio Lower Upper
43 100
72 23.3 18.3 27.5



#36
Benzene
Concen: 0.110 ppbv
RT: 6.359 min Scan# 1168
Delta R.T. -0.013 min
Lab File: VL040291.D
Acq: 16 Mar 2023 11:58

Tgt Ion: 78 Resp: 22426
Ion Ratio Lower Upper
78 100
77 15.1 17.8 26.8#
50 12.6 15.4 23.2#





#39

1,2-Dichloropropane

Concen: 8.358 ppbv

RT: 6.645 min Scan# 11

Delta R.T. -0.428 min

Lab File: VL040291.D

Acq: 16 Mar 2023 11:58

Instrument :

MSVOA_1

ClientSampleId :

SSSG-1

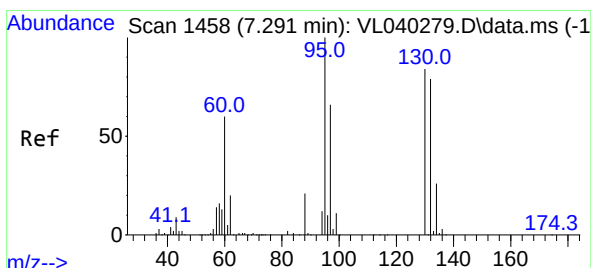
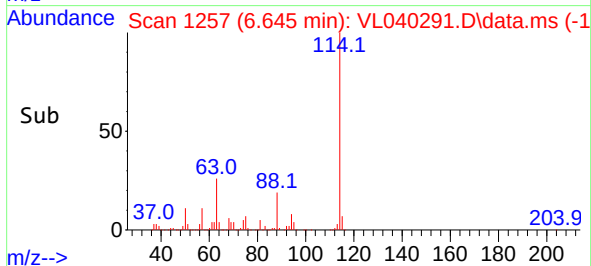
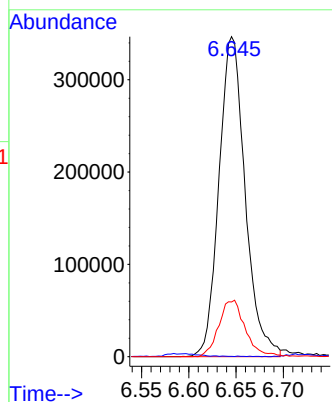
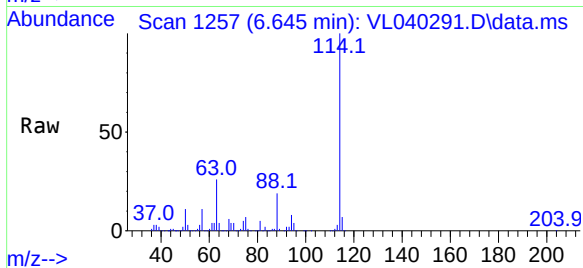
Tgt Ion: 63 Resp: 667720

Ion Ratio Lower Upper

63 100

41 0.0 60.8 91.2#

62 17.1 54.1 81.1#



#40

1,4-Dioxane

Concen: 0.032 ppbv

RT: 7.320 min Scan# 1467

Delta R.T. 0.029 min

Lab File: VL040291.D

Acq: 16 Mar 2023 11:58

Tgt Ion: 88 Resp: 1024

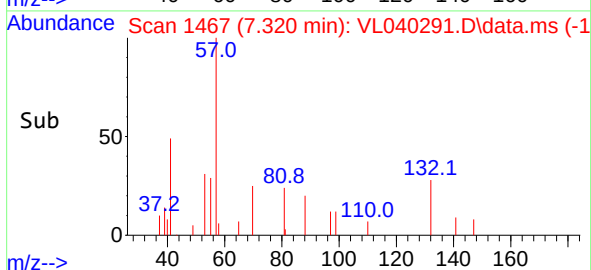
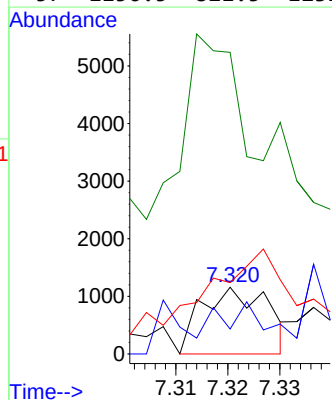
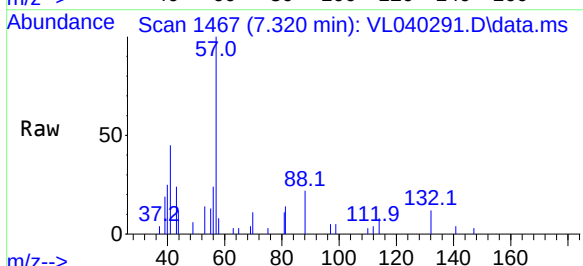
Ion Ratio Lower Upper

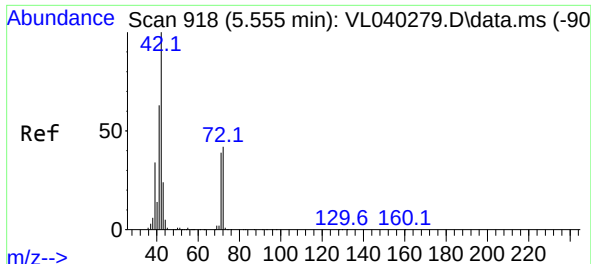
88 100

58 0.0 96.0 144.0#

43 380.6 187.6 281.4#

57 1156.5 821.5 1232.3

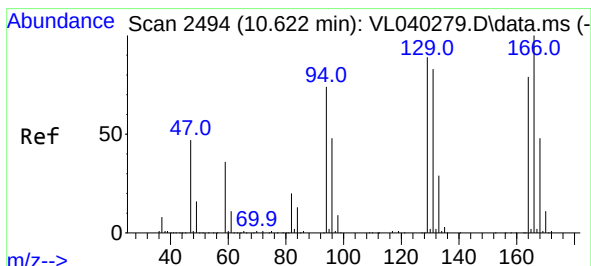
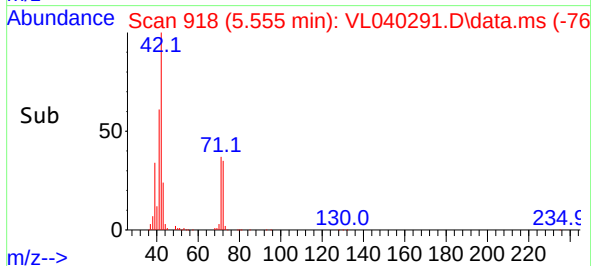
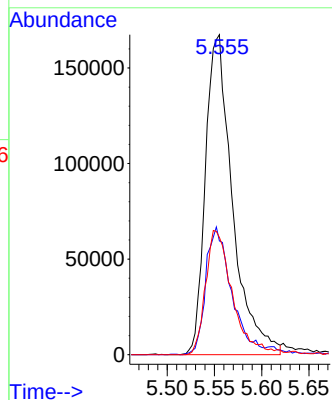
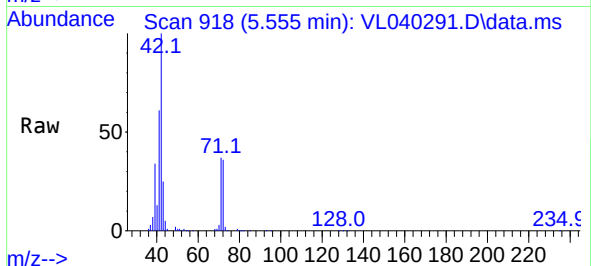




#41
Tetrahydrofuran
Concen: 4.381 ppbv
RT: 5.555 min Scan# 918
Delta R.T. 0.000 min
Lab File: VL040291.D
Acq: 16 Mar 2023 11:58

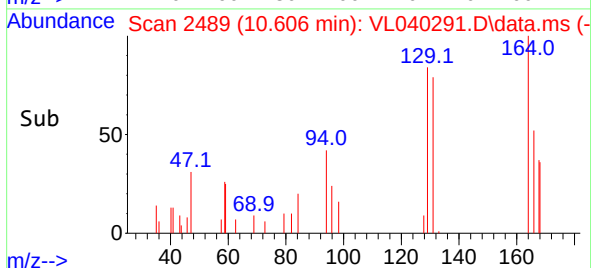
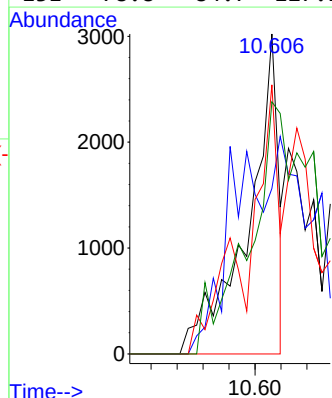
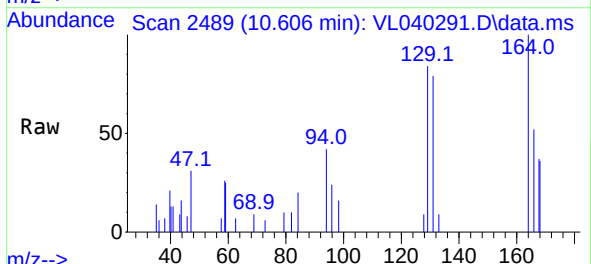
Instrument :
MSVOA_1
ClientSampleId :
SSSG-1

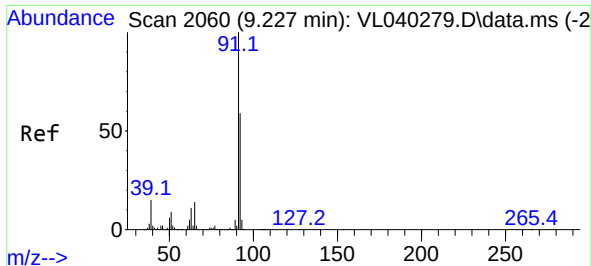
Tgt Ion: 42 Resp: 333426
Ion Ratio Lower Upper
42 100
72 40.0 32.6 49.0
71 39.5 31.0 46.4



#52
Tetrachloroethene
Concen: 0.040 ppbv
RT: 10.606 min Scan# 2489
Delta R.T. -0.016 min
Lab File: VL040291.D
Acq: 16 Mar 2023 11:58

Tgt Ion: 164 Resp: 2440
Ion Ratio Lower Upper
164 100
166 51.7 101.8 152.6#
129 84.1 90.2 135.2#
131 78.8 84.7 127.1#

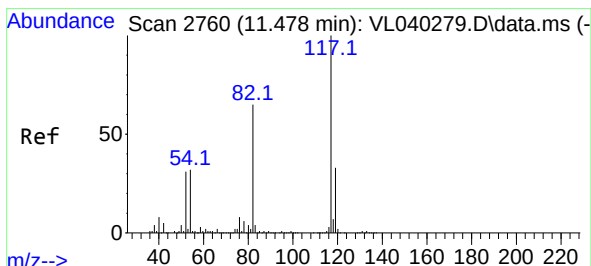
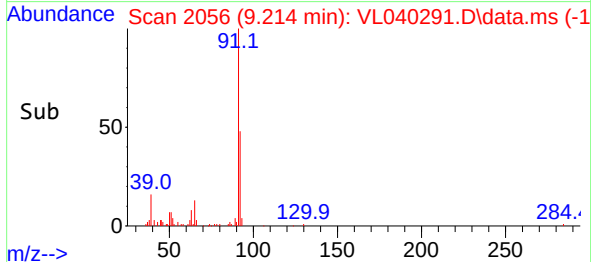
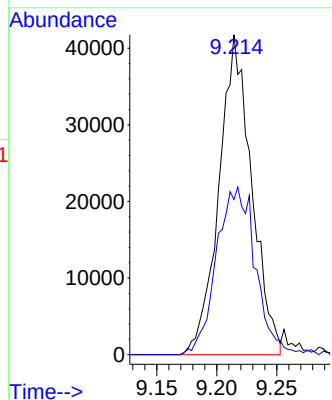
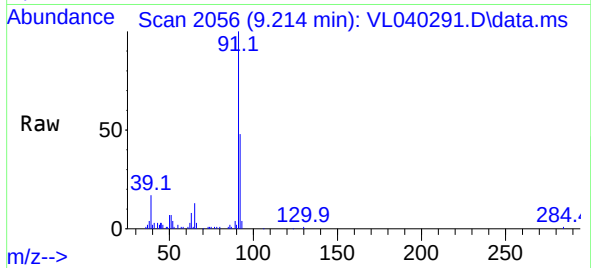




#53
Toluene
Concen: 0.371 ppbv
RT: 9.214 min Scan# 2060
Delta R.T. -0.013 min
Lab File: VL040291.D
Acq: 16 Mar 2023 11:58

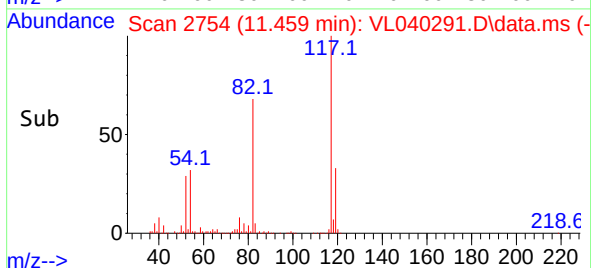
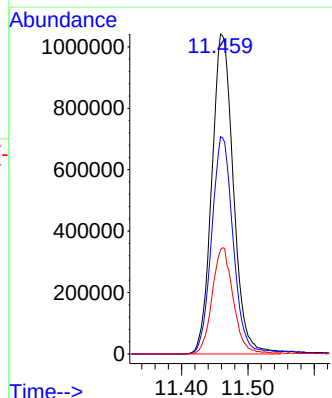
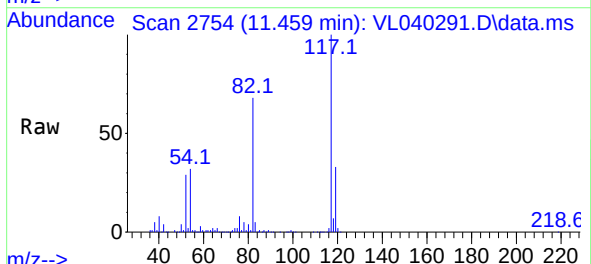
Instrument :
MSVOA_1
ClientSampleId :
SSSG-1

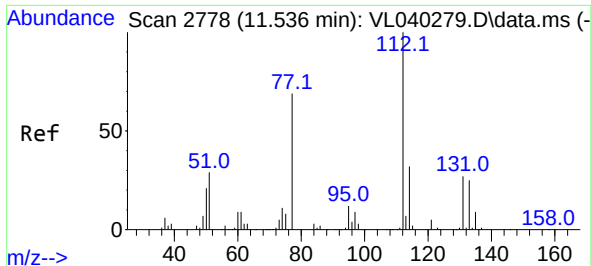
Tgt Ion: 91 Resp: 79073
Ion Ratio Lower Upper
91 100
92 62.9 48.0 72.0



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.459 min Scan# 2754
Delta R.T. -0.019 min
Lab File: VL040291.D
Acq: 16 Mar 2023 11:58

Tgt Ion: 117 Resp: 2358161
Ion Ratio Lower Upper
117 100
82 68.8 51.4 77.2
119 32.8 24.0 36.0

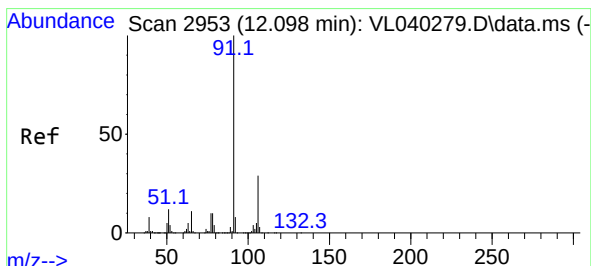
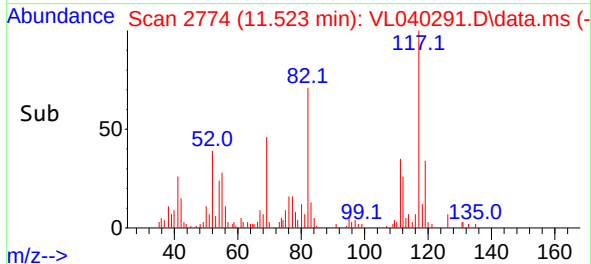
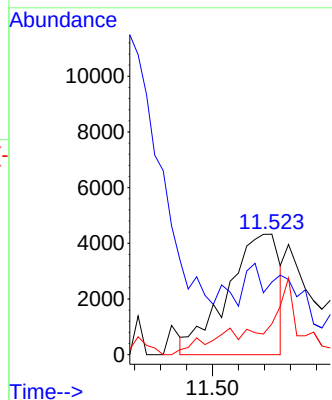
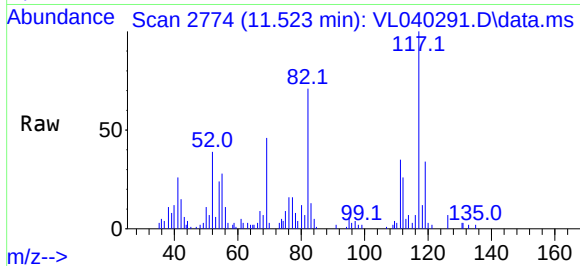




#57
Chlorobenzene
Concen: 0.036 ppbv
RT: 11.523 min Scan# 2112
Delta R.T. -0.013 min
Lab File: VL040291.D
Acq: 16 Mar 2023 11:58

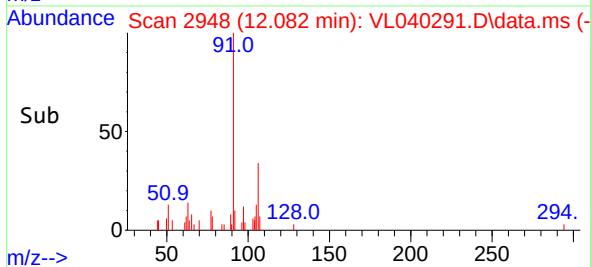
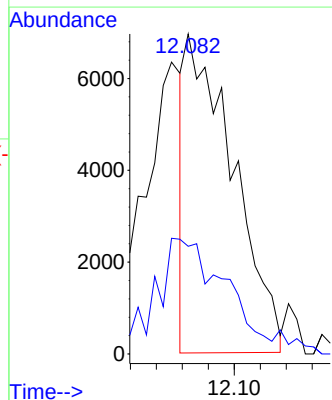
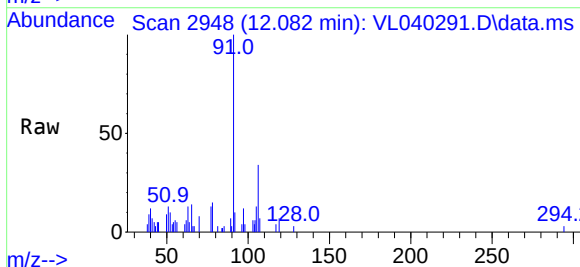
Instrument :
MSVOA_1
ClientSampleId :
SSSG-1

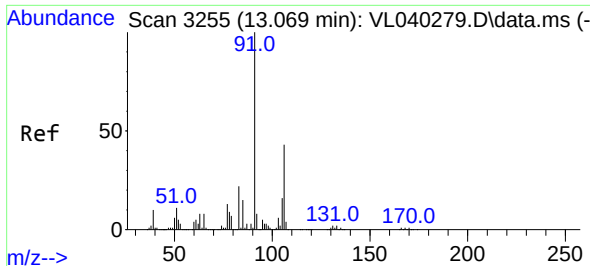
Tgt Ion:112 Resp: 6010
Ion Ratio Lower Upper
112 100
77 0.0 56.2 84.2#
114 25.2 29.0 35.4#



#58
Ethyl Benzene
Concen: 0.033 ppbv
RT: 12.082 min Scan# 2948
Delta R.T. -0.016 min
Lab File: VL040291.D
Acq: 16 Mar 2023 11:58

Tgt Ion: 91 Resp: 8849
Ion Ratio Lower Upper
91 100
106 25.0 23.4 35.2

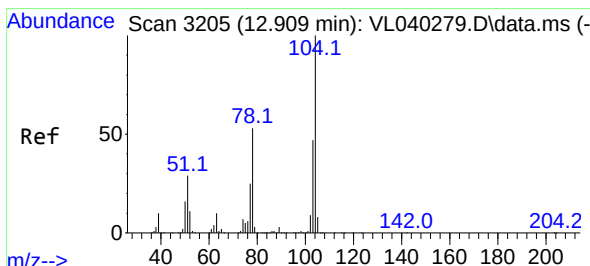
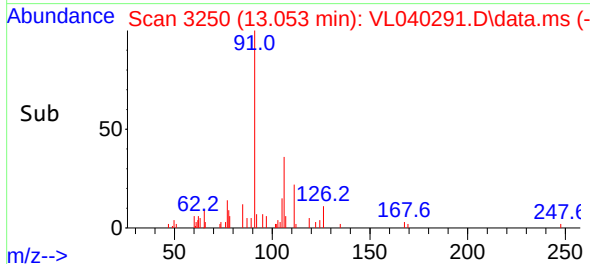
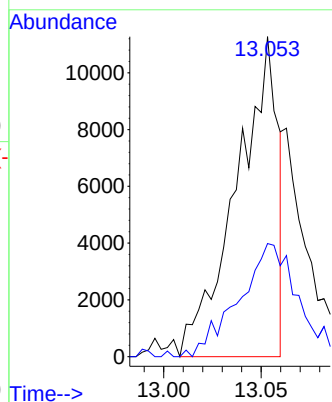
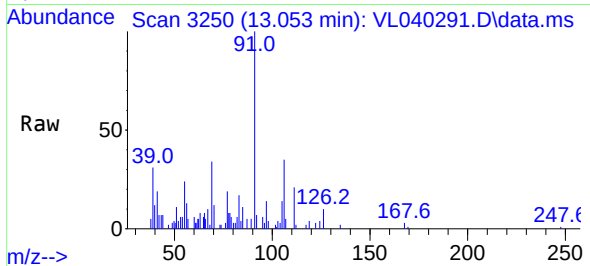




#60
o-Xylene
Concen: 0.071 ppbv
RT: 13.053 min Scan# 31
Delta R.T. -0.016 min
Lab File: VL040291.D
Acq: 16 Mar 2023 11:58

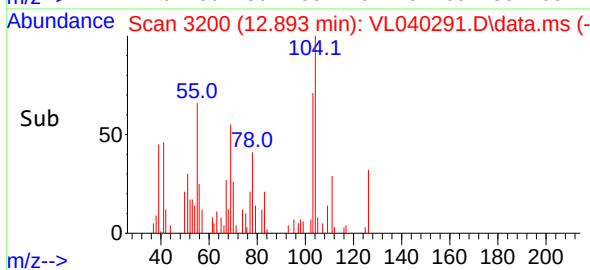
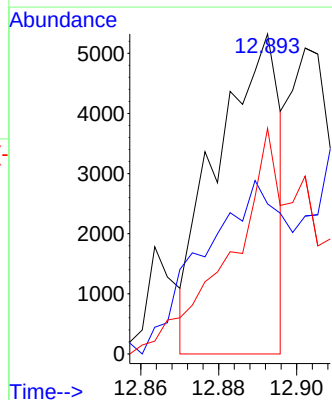
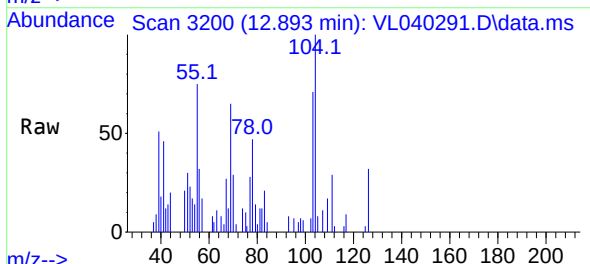
Instrument :
MSVOA_1
ClientSampleId :
SSSG-1

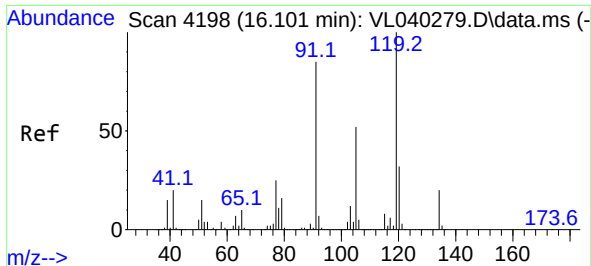
Tgt Ion: 91 Resp: 16625
Ion Ratio Lower Upper
91 100
106 51.5 21.7 65.1



#61
Styrene
Concen: 0.050 ppbv
RT: 12.893 min Scan# 3200
Delta R.T. -0.016 min
Lab File: VL040291.D
Acq: 16 Mar 2023 11:58

Tgt Ion: 104 Resp: 5979
Ion Ratio Lower Upper
104 100
78 0.0 43.7 65.5#
103 109.3 37.4 56.2#

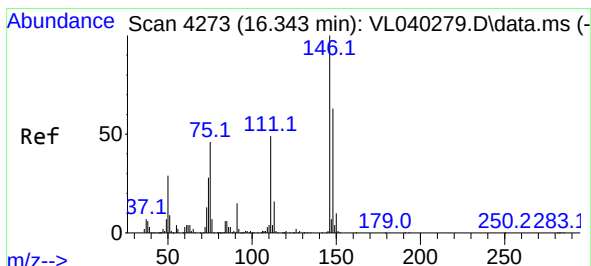
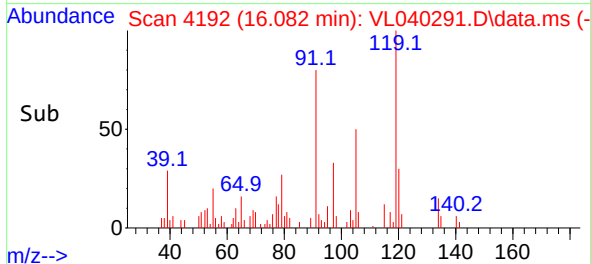
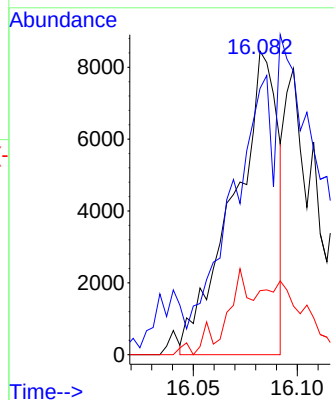
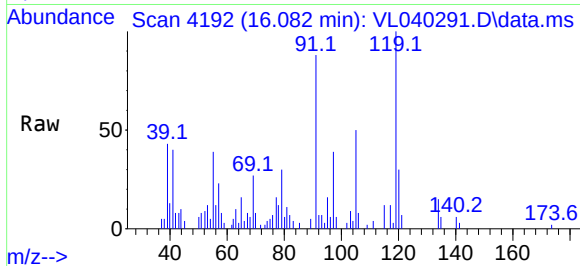




#65
tert-Butylbenzene
Concen: 0.043 ppbv
RT: 16.082 min Scan# 4192
Delta R.T. -0.019 min
Lab File: VL040291.D
Acq: 16 Mar 2023 11:58

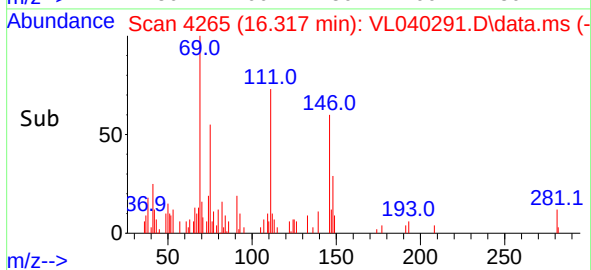
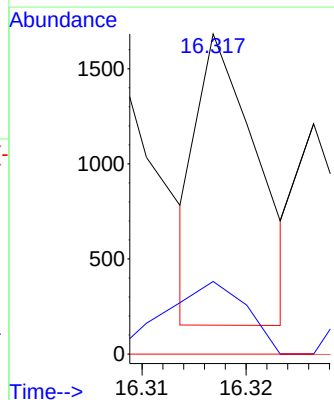
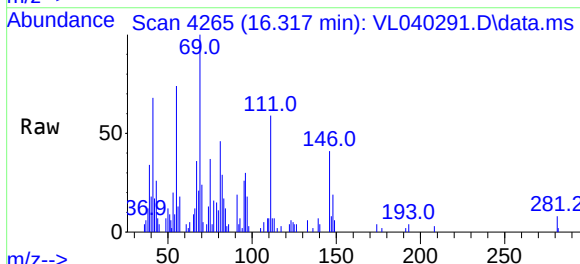
Instrument :
MSVOA_1
ClientSampleId :
SSSG-1

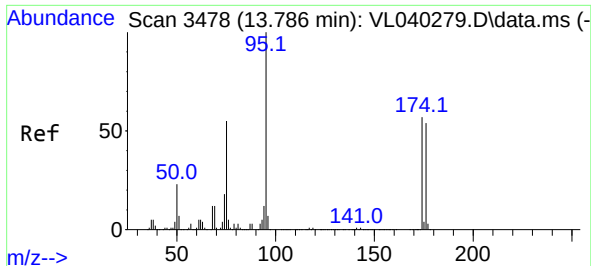
Tgt Ion:119 Resp: 12524
Ion Ratio Lower Upper
119 100
91 0.0 69.4 104.2#
134 43.8 15.8 23.6#



#66
Benzyl Chloride
Concen: 0.032 ppbv
RT: 16.317 min Scan# 4265
Delta R.T. -0.026 min
Lab File: VL040291.D
Acq: 16 Mar 2023 11:58

Tgt Ion: 91 Resp: 605
Ion Ratio Lower Upper
91 100
126 34.2 12.1 18.1#
128 0.0 3.8 5.6#

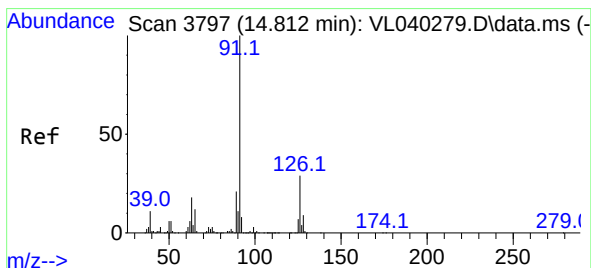
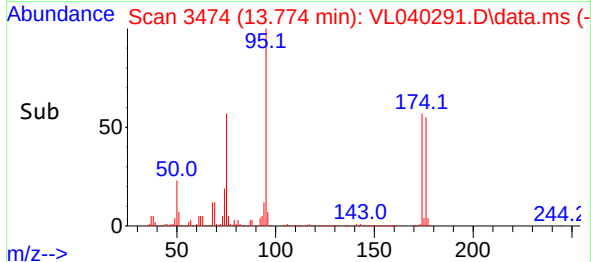
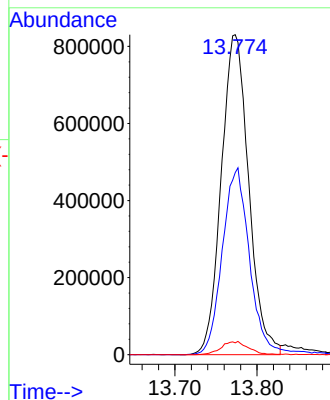
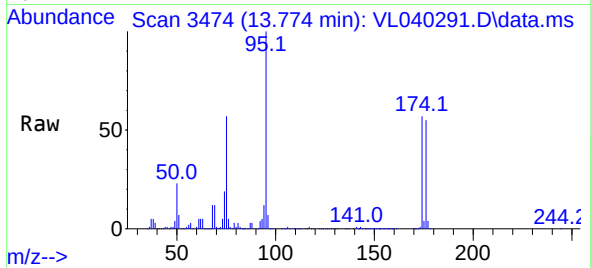




#68
1-Bromo-4-Fluorobenzene
Concen: 9.780 ppbv
RT: 13.774 min Scan# 3478
Delta R.T. -0.012 min
Lab File: VL040291.D
Acq: 16 Mar 2023 11:58

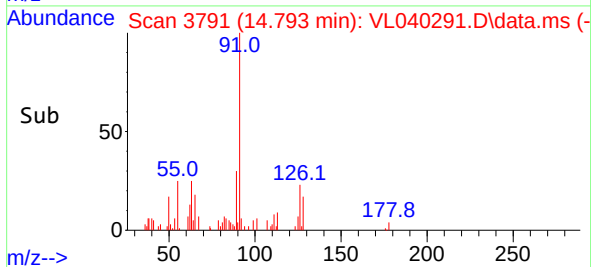
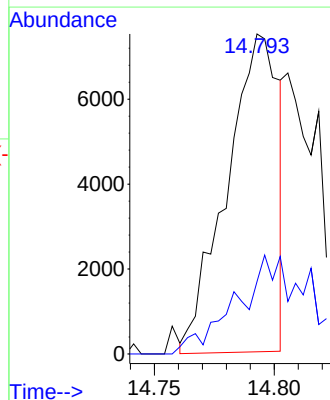
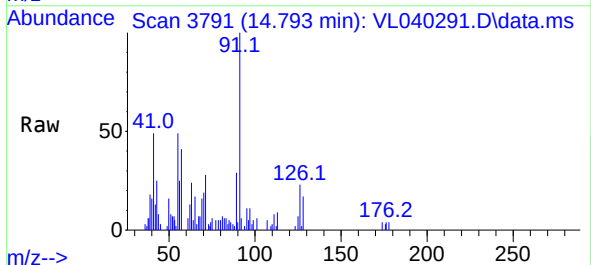
Instrument :
MSVOA_1
ClientSampleId :
SSSG-1

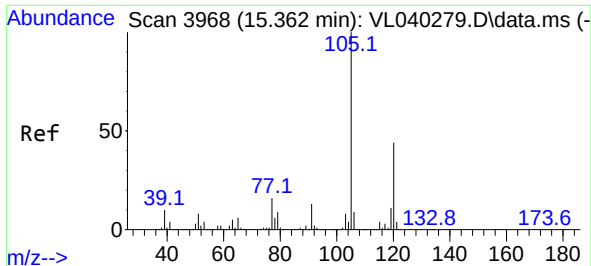
Tgt Ion: 95 Resp: 1931389
Ion Ratio Lower Upper
95 100
174 59.3 47.0 70.6
175 4.1 3.4 5.2



#71
2-Chlorotoluene
Concen: 0.044 ppbv
RT: 14.793 min Scan# 3791
Delta R.T. -0.019 min
Lab File: VL040291.D
Acq: 16 Mar 2023 11:58

Tgt Ion: 91 Resp: 11237
Ion Ratio Lower Upper
91 100
126 46.5 11.8 47.4

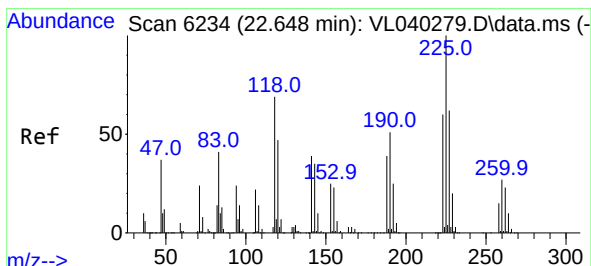
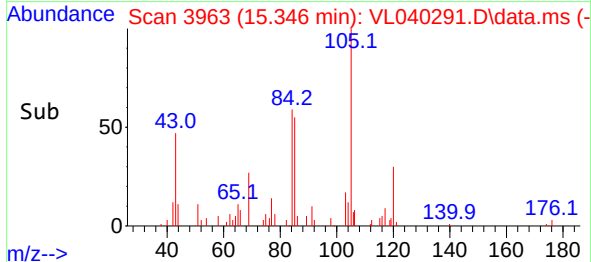
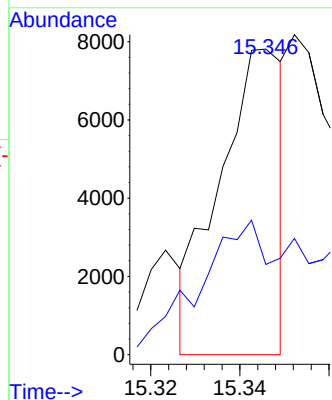
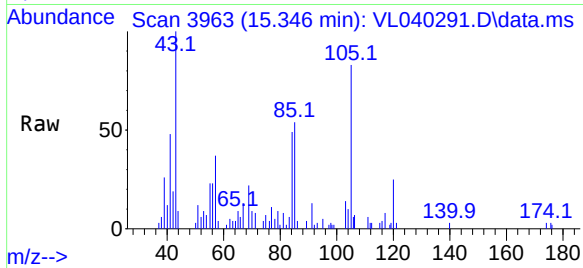




#73
1,3,5-Trimethylbenzene
Concen: 0.033 ppbv
RT: 15.346 min Scan# 3963
Delta R.T. -0.016 min
Lab File: VL040291.D
Acq: 16 Mar 2023 11:58

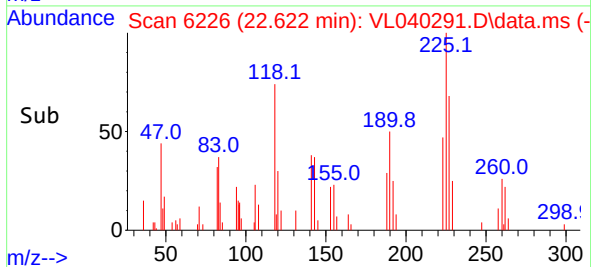
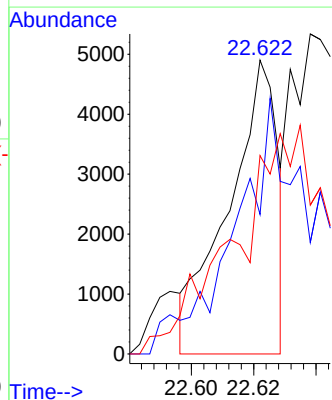
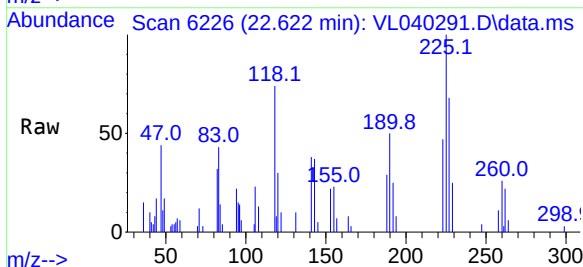
Instrument :
MSVOA_1
ClientSampleId :
SSSG-1

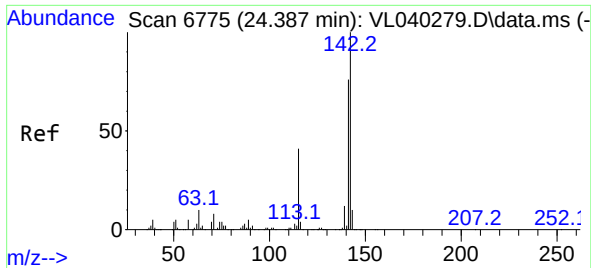
Tgt Ion:105 Resp: 7714
Ion Ratio Lower Upper
105 100
120 11.8 34.9 52.3#



#78
Hexachloro-1,3-Butadiene
Concen: 0.053 ppbv
RT: 22.622 min Scan# 6226
Delta R.T. -0.026 min
Lab File: VL040291.D
Acq: 16 Mar 2023 11:58

Tgt Ion:225 Resp: 5418
Ion Ratio Lower Upper
225 100
223 179.9 51.0 76.6#
227 0.0 51.4 77.2#





#80
Naphthalene, 2-methyl-
Concen: 0.058 ppbv
RT: 24.403 min Scan# 61
Delta R.T. 0.016 min
Lab File: VL040291.D
Acq: 16 Mar 2023 11:58

Instrument :
MSVOA_L
ClientSampleId :
SSSG-1

Tgt Ion:	142	Resp:	2318
Ion	Ratio	Lower	Upper
142	100		
141	65.9	65.5	98.3
115	34.3	33.5	50.3

