

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102422\
 Data File : VY011063.D
 Acq On : 24 Oct 2022 12:57
 Operator : KP/MD
 Sample : N5217-13RE
 Misc : 5.04g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 SB-L1-3.5-4.0RE

Quant Time: Oct 25 05:29:04 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y101722S.M
 Quant Title : SW846 8260
 QLast Update : Tue Oct 18 01:42:42 2022
 Response via : Initial Calibration

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

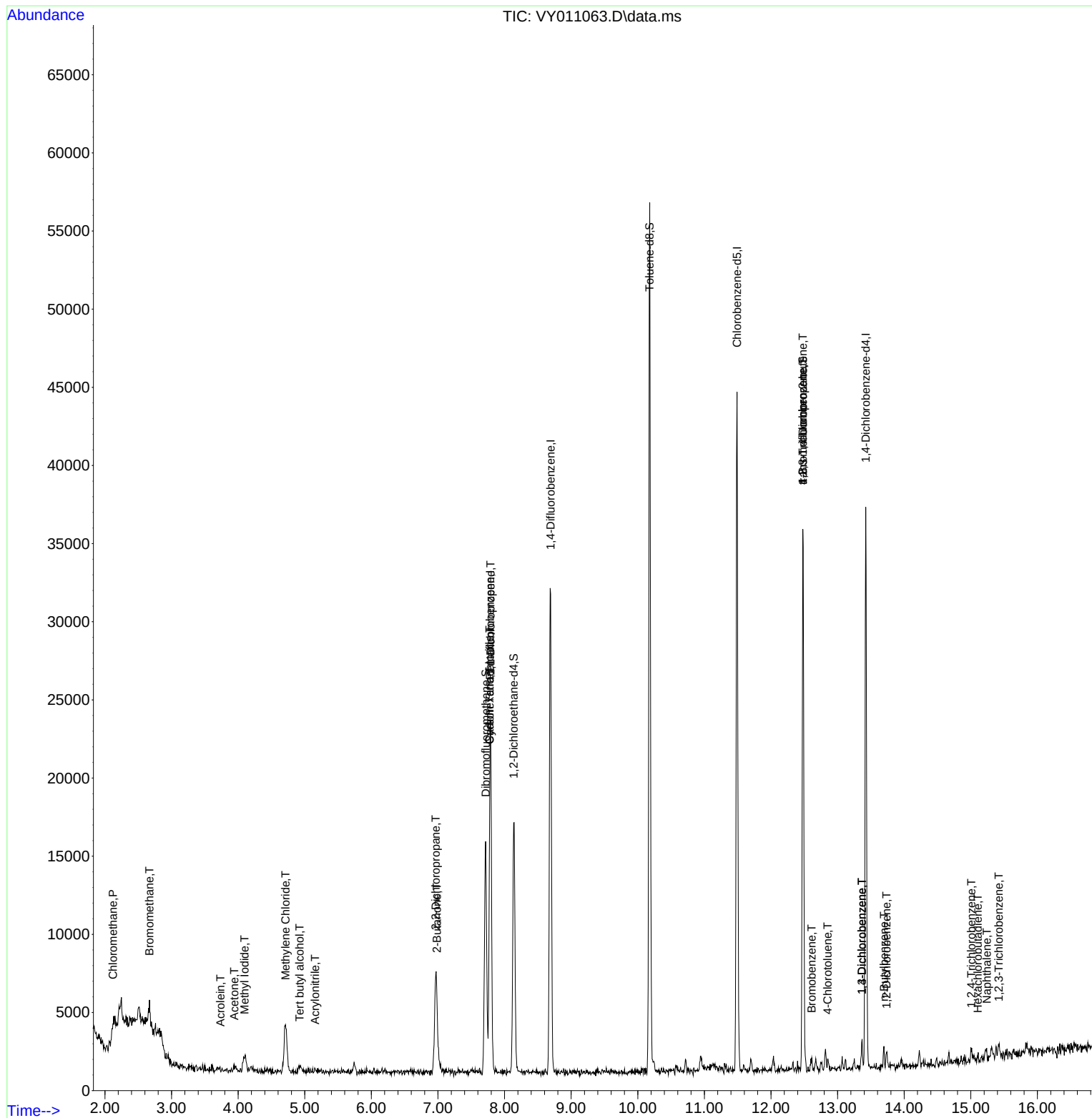
Internal Standards						
1) Pentafluorobenzene	7.783	168	18624	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.691	114	29161	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.490	117	25154	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.422	152	9689	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.137	65	12963	75.562	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 151.120%	
35) Dibromofluoromethane	7.716	113	10613	65.979	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 131.960%	
50) Toluene-d8	10.179	98	36897	60.598	ug/l	0.00
Spiked Amount	50.000	Range	49 - 140	Recovery	= 121.200%	
62) 4-Bromofluorobenzene	12.477	95	11049	51.308	ug/l	0.00
Spiked Amount	50.000	Range	25 - 144	Recovery	= 102.620%	
Target Compounds						
					Qvalue	
3) Chloromethane	2.119	50	572	3.227	ug/l	89
5) Bromomethane	2.668	94	733	5.276	ug/l	91
10) Methyl Iodide	4.095	142	1966	8.712	ug/l #	84
11) Tert butyl alcohol	4.924	59	528	6.176	ug/l #	77
13) Acrolein	3.735	56	41	1.482	ug/l #	14
15) Acrylonitrile	5.155	53	77	1.346	ug/l #	63
16) Acetone	3.942	43	553	11.100	ug/l #	73
18) Methyl Acetate	4.247	43	19	Below Cal	#	56
20) Methylene Chloride	4.710	84	2498	5.939	ug/l	90
25) 2-Butanone	6.984	43	430	5.691	ug/l #	54
26) 2,2-Dichloropropane	6.966	77	545	1.694	ug/l #	55
31) Cyclohexane	7.777	56	450	1.371	ug/l #	58
36) 1,1-Dichloropropene	7.789	75	1405	5.176	ug/l #	44
38) Carbon Tetrachloride	7.777	117	1825	6.513	ug/l #	11
76) 1,2,3-Trichloropropane	12.477	75	5499	49.990	ug/l #	100
77) Bromobenzene	12.611	156	224	1.361	ug/l	77
81) trans-1,4-Dichloro-2-b...	12.477	75	5499	107.515	ug/l #	7
82) 4-Chlorotoluene	12.849	91	636	1.266	ug/l	83
87) 1,3-Dichlorobenzene	13.367	146	616	1.876	ug/l	86
88) 1,4-Dichlorobenzene	13.367	146	616	1.887	ug/l	85
89) n-Butylbenzene	13.697	91	641	1.083	ug/l	93
91) 1,2-Dichlorobenzene	13.733	146	613	2.086	ug/l	87
93) 1,2,4-Trichlorobenzene	15.007	180	332	1.891	ug/l #	88
94) Hexachlorobutadiene	15.105	225	187	1.809	ug/l	75
95) Naphthalene	15.239	128	855	2.391	ug/l #	82
96) 1,2,3-Trichlorobenzene	15.422	180	327	2.135	ug/l	92

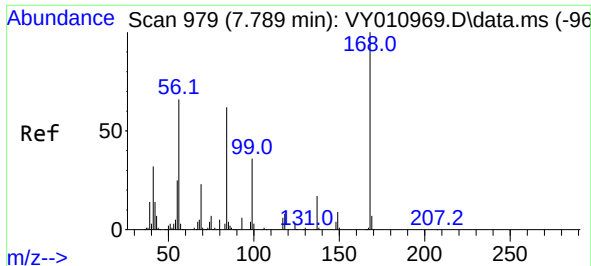
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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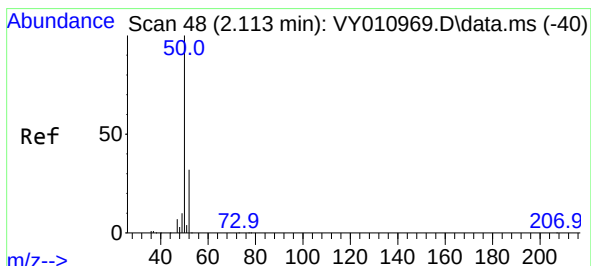
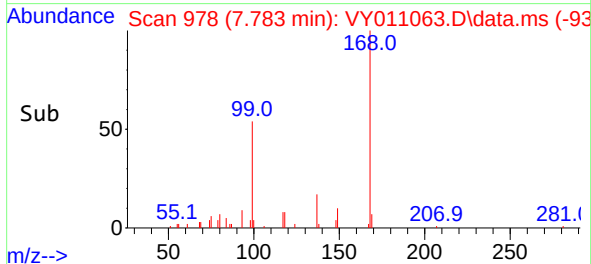
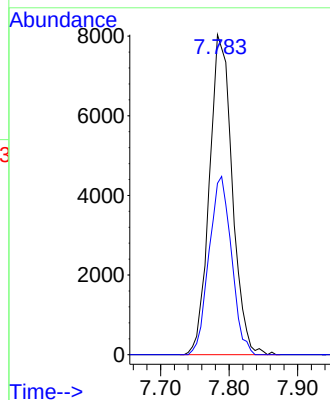
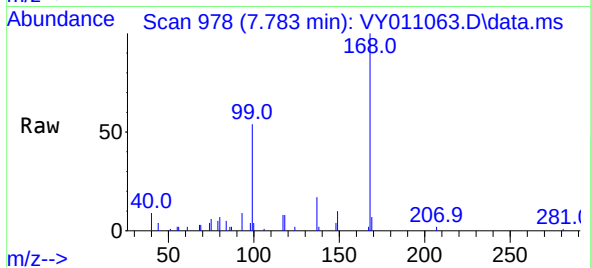




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.783 min Scan# 91
Delta R.T. -0.006 min
Lab File: VY011063.D
Acq: 24 Oct 2022 12:57

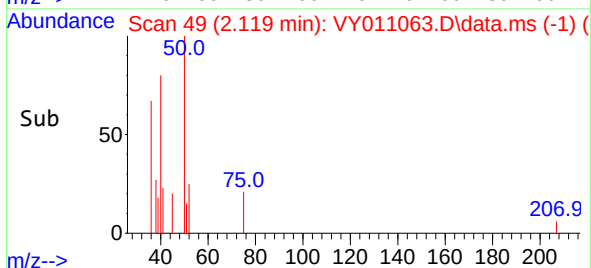
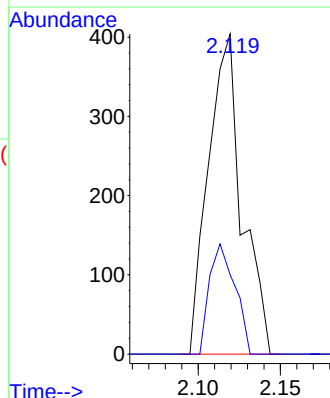
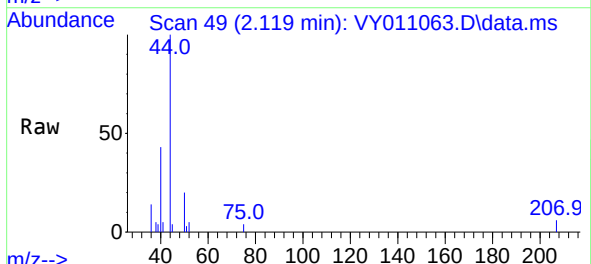
Instrument :
MSVOA_Y
ClientSampleId :
SB-L1-3.5-4.0RE

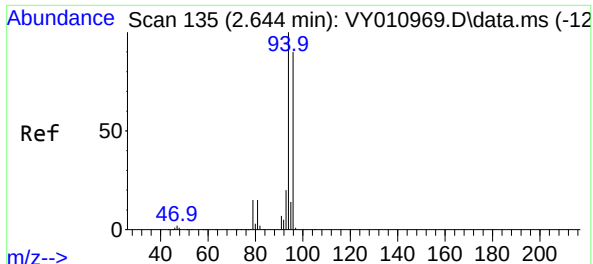
Tgt Ion:168 Resp: 18624
Ion Ratio Lower Upper
168 100
99 53.5 46.9 70.3



#3
Chloromethane
Concen: 3.227 ug/l
RT: 2.119 min Scan# 49
Delta R.T. 0.006 min
Lab File: VY011063.D
Acq: 24 Oct 2022 12:57

Tgt Ion: 50 Resp: 572
Ion Ratio Lower Upper
50 100
52 24.8 24.6 37.0

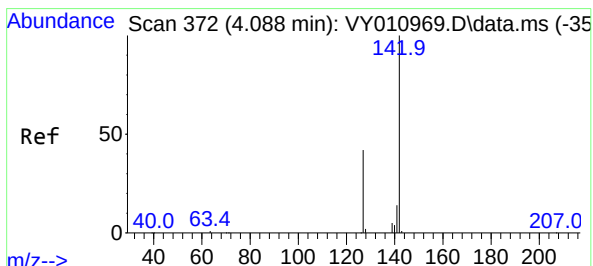
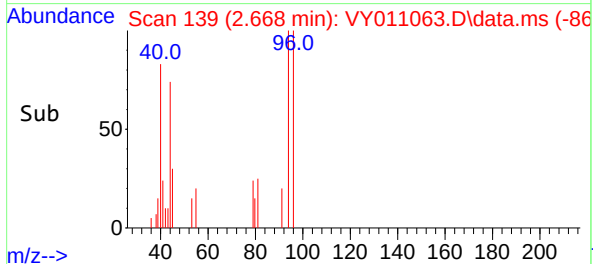
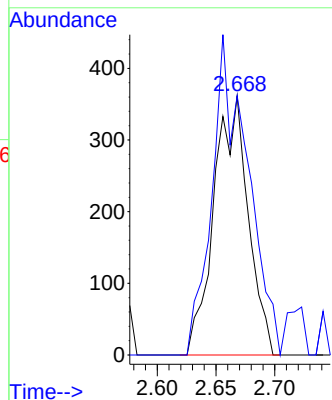
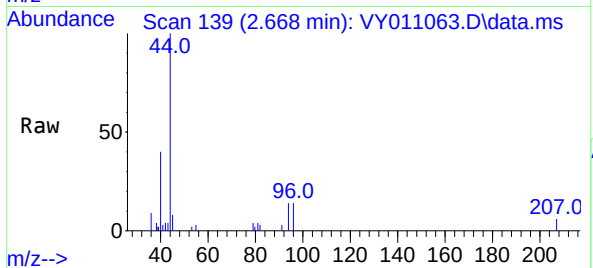




#5
Bromomethane
Concen: 5.276 ug/l
RT: 2.668 min Scan# 11
Delta R.T. 0.024 min
Lab File: VY011063.D
Acq: 24 Oct 2022 12:57

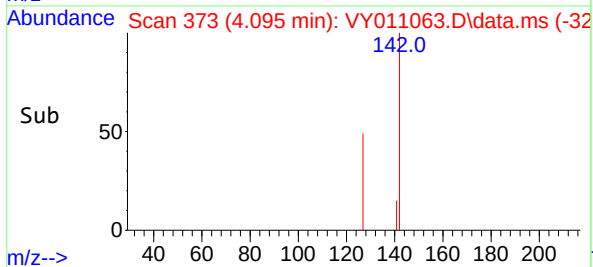
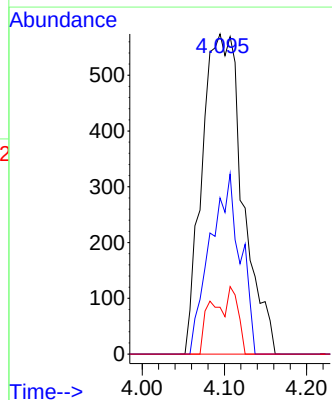
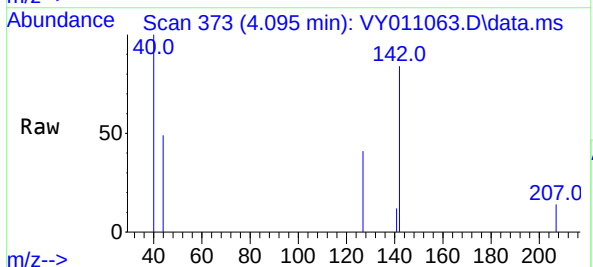
Instrument :
MSVOA_Y
ClientSampleId :
SB-L1-3.5-4.0RE

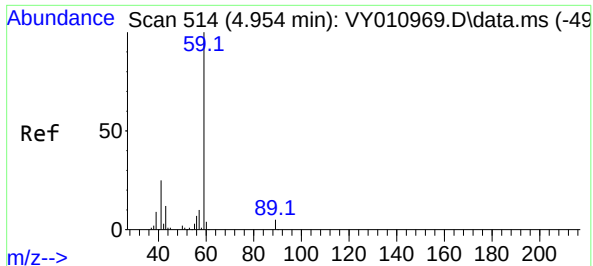
Tgt Ion: 94 Resp: 733
Ion Ratio Lower Upper
94 100
96 100.3 73.5 110.3



#10
Methyl Iodide
Concen: 8.712 ug/l
RT: 4.095 min Scan# 373
Delta R.T. 0.007 min
Lab File: VY011063.D
Acq: 24 Oct 2022 12:57

Tgt Ion:142 Resp: 1966
Ion Ratio Lower Upper
142 100
127 42.0 41.5 62.3
141 5.4 11.9 17.9#





#11

Tert butyl alcohol

Concen: 6.176 ug/l

RT: 4.924 min Scan# 509

Delta R.T. -0.030 min

Lab File: VY011063.D

Acq: 24 Oct 2022 12:57

Instrument :

MSVOA_Y

ClientSampleId :

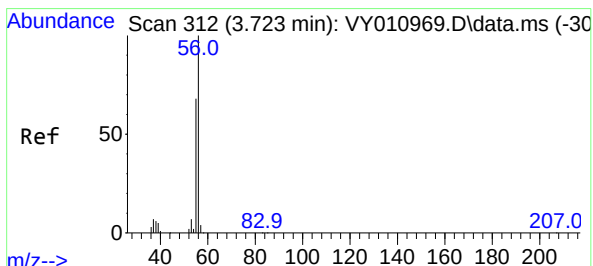
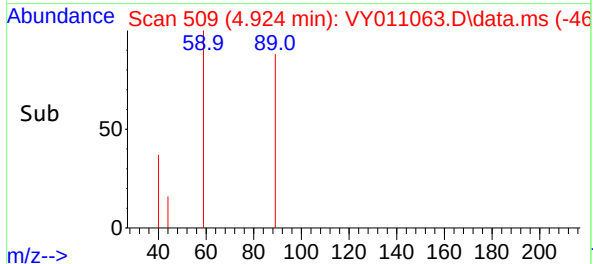
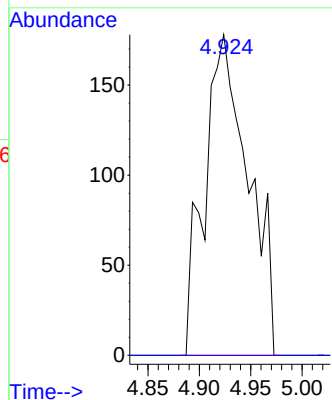
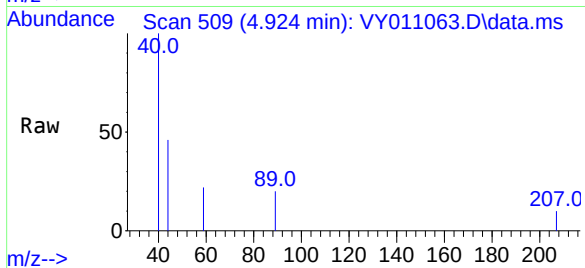
SB-L1-3.5-4.0RE

Tgt Ion: 59 Resp: 528

Ion Ratio Lower Upper

59 100

57 0.0 6.4 9.6#



#13

Acrolein

Concen: 1.482 ug/l

RT: 3.735 min Scan# 314

Delta R.T. 0.012 min

Lab File: VY011063.D

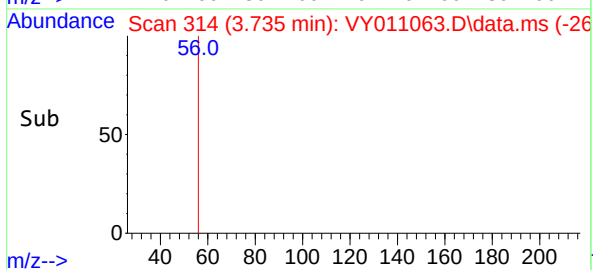
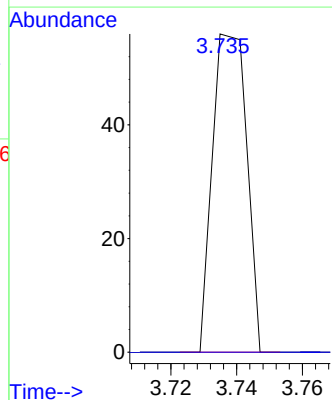
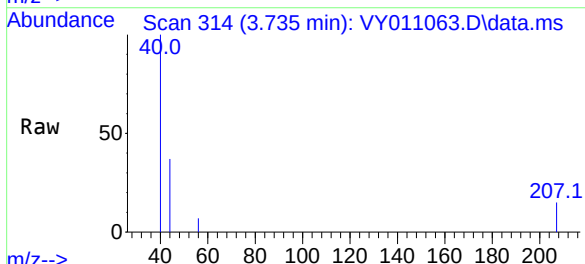
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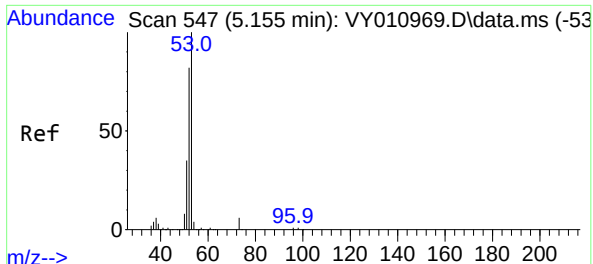
Tgt Ion: 56 Resp: 41

Ion Ratio Lower Upper

56 100

55 0.0 57.6 86.4#

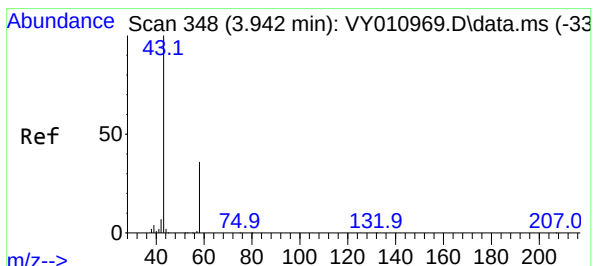
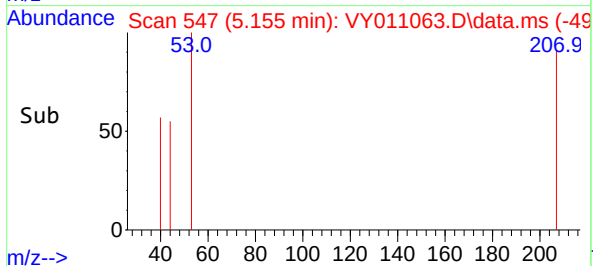
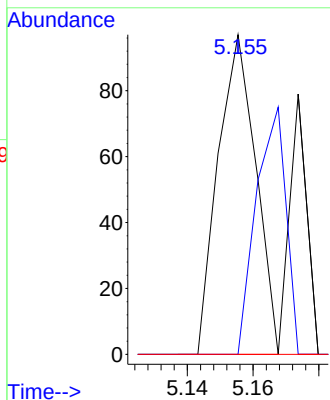
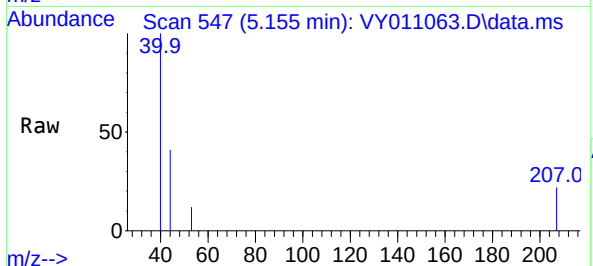




#15
Acrylonitrile
Concen: 1.346 ug/l
RT: 5.155 min Scan# 547
Delta R.T. 0.000 min
Lab File: VY011063.D
Acq: 24 Oct 2022 12:57

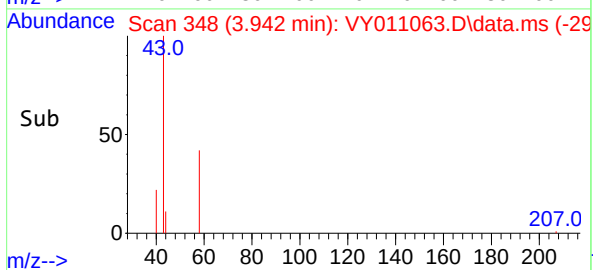
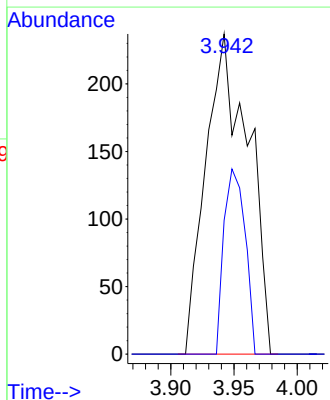
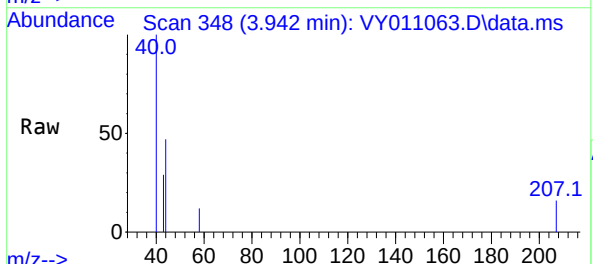
Instrument :
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SB-L1-3.5-4.0RE

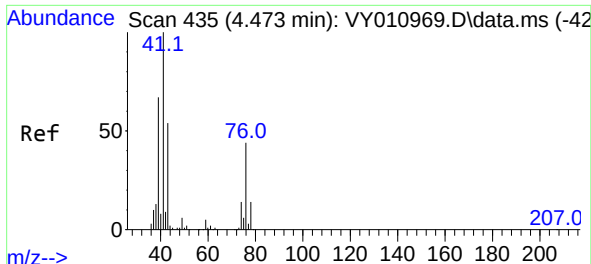
Tgt Ion: 53 Resp: 77
Ion Ratio Lower Upper
53 100
52 61.0 67.0 100.4#
51 0.0 29.8 44.6#



#16
Acetone
Concen: 11.100 ug/l
RT: 3.942 min Scan# 348
Delta R.T. 0.000 min
Lab File: VY011063.D
Acq: 24 Oct 2022 12:57

Tgt Ion: 43 Resp: 553
Ion Ratio Lower Upper
43 100
58 41.8 22.0 33.0#

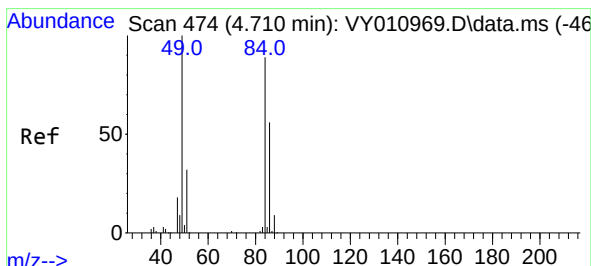
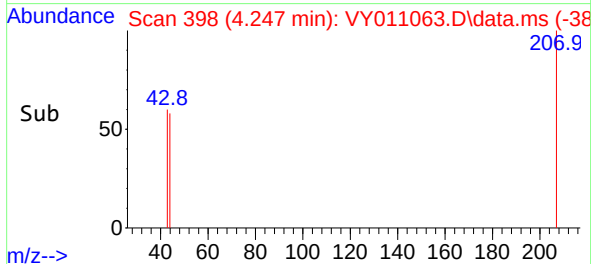
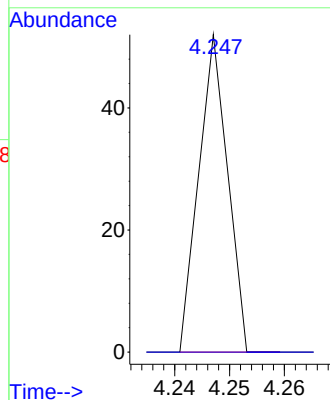
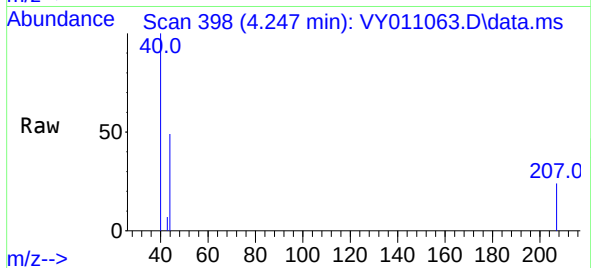




#18
Methyl Acetate
Concen: Below Cal
RT: 4.247 min Scan# 398
Delta R.T. -0.226 min
Lab File: VY011063.D
Acq: 24 Oct 2022 12:57

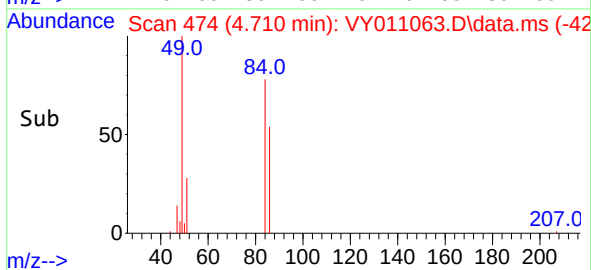
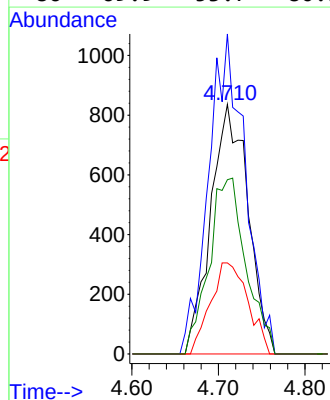
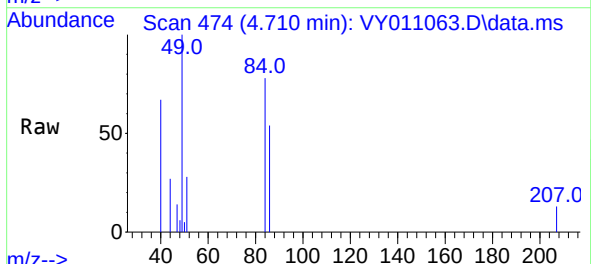
Instrument :
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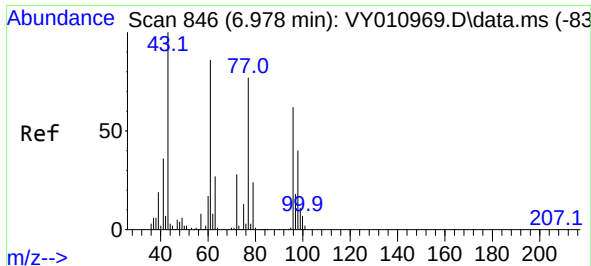
Tgt Ion: 43 Resp: 19
Ion Ratio Lower Upper
43 100
74 0.0 16.6 24.8#



#20
Methylene Chloride
Concen: 5.939 ug/l
RT: 4.710 min Scan# 474
Delta R.T. 0.000 min
Lab File: VY011063.D
Acq: 24 Oct 2022 12:57

Tgt Ion: 84 Resp: 2498
Ion Ratio Lower Upper
84 100
49 128.2 114.4 171.6
51 36.5 35.3 52.9
86 69.9 53.7 80.5





#25

2-Butanone

Concen: 5.691 ug/l

RT: 6.984 min Scan# 84

Delta R.T. 0.006 min

Lab File: VY011063.D

Acq: 24 Oct 2022 12:57

Instrument :

MSVOA_Y

ClientSampleId :

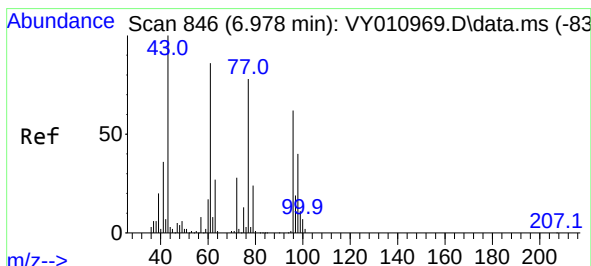
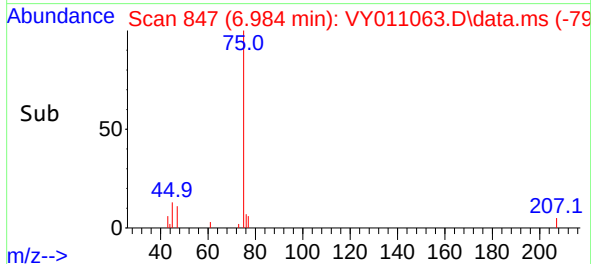
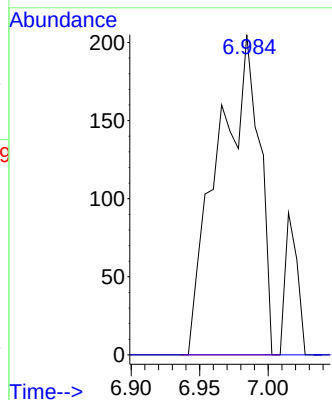
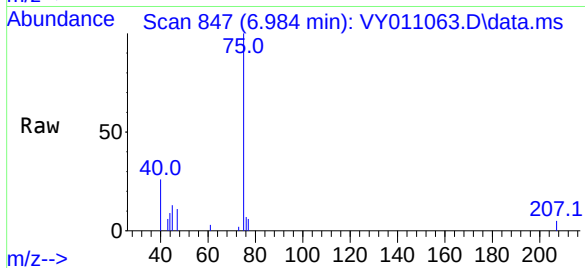
SB-L1-3.5-4.0RE

Tgt Ion: 43 Resp: 430

Ion Ratio Lower Upper

43 100

72 0.0 17.7 26.5#



#26

2,2-Dichloropropane

Concen: 1.694 ug/l

RT: 6.966 min Scan# 844

Delta R.T. -0.012 min

Lab File: VY011063.D

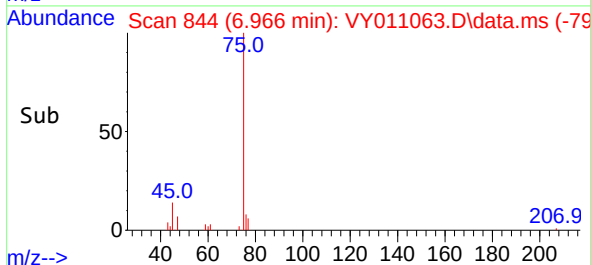
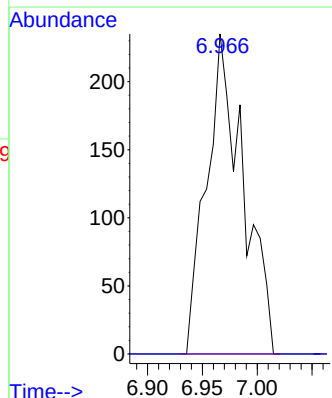
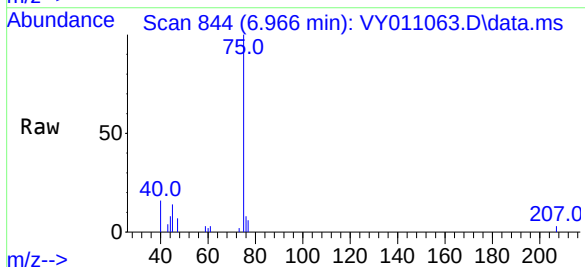
Acq: 24 Oct 2022 12:57

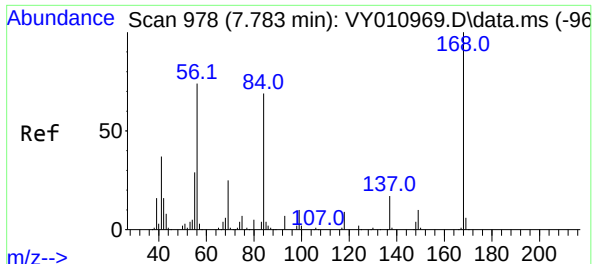
Tgt Ion: 77 Resp: 545

Ion Ratio Lower Upper

77 100

97 0.0 10.4 31.4#

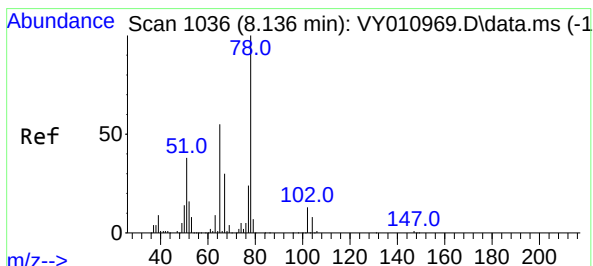
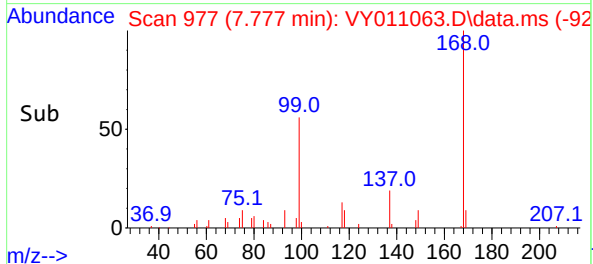
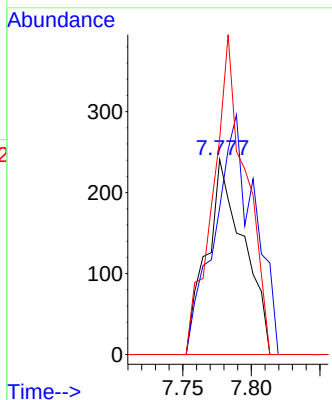
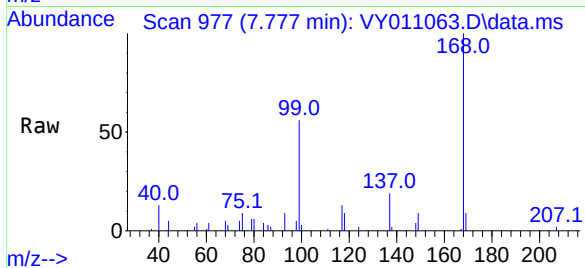




#31
Cyclohexane
Concen: 1.371 ug/l
RT: 7.777 min Scan# 91
Delta R.T. -0.006 min
Lab File: VY011063.D
Acq: 24 Oct 2022 12:57

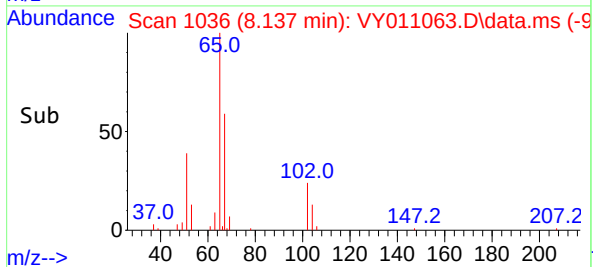
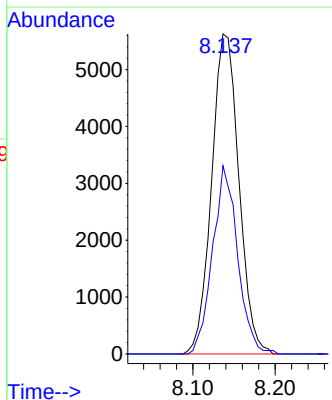
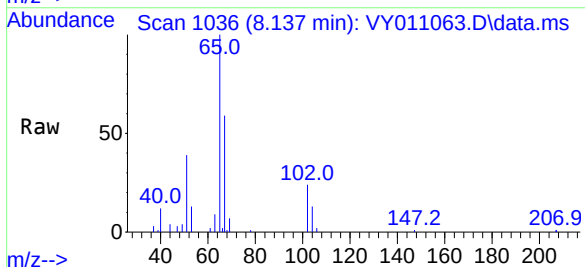
Instrument :
MSVOA_Y
ClientSampleId :
SB-L1-3.5-4.0RE

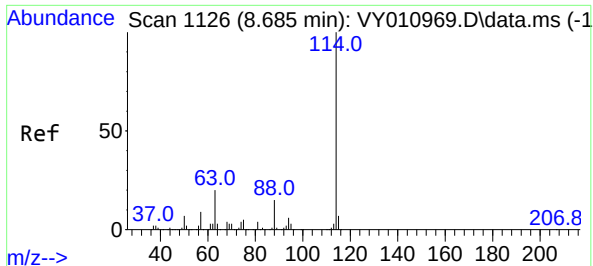
Tgt Ion: 56 Resp: 450
Ion Ratio Lower Upper
56 100
69 75.1 26.7 40.1#
84 110.4 67.2 100.8#



#33
1,2-Dichloroethane-d4
Concen: 75.562 ug/l
RT: 8.137 min Scan# 1036
Delta R.T. 0.001 min
Lab File: VY011063.D
Acq: 24 Oct 2022 12:57

Tgt Ion: 65 Resp: 12963
Ion Ratio Lower Upper
65 100
67 54.0 0.0 99.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.691 min Scan# 1126

Delta R.T. 0.006 min

Lab File: VY011063.D

Acq: 24 Oct 2022 12:57

Instrument :

MSVOA_Y

ClientSampleId :

SB-L1-3.5-4.0RE

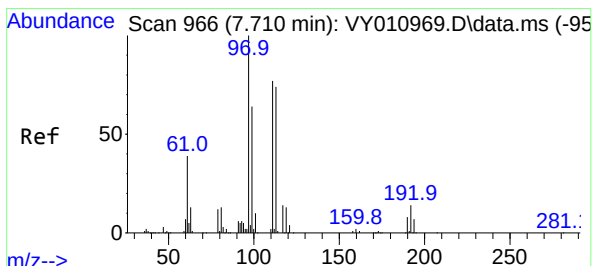
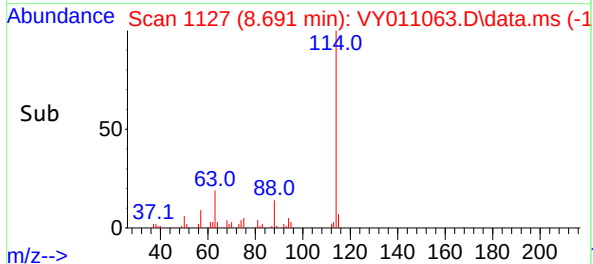
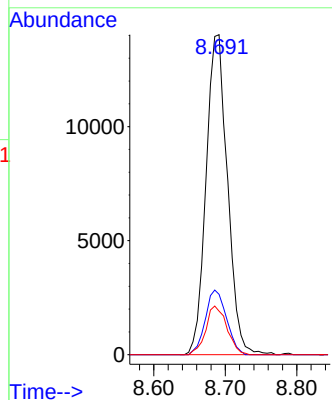
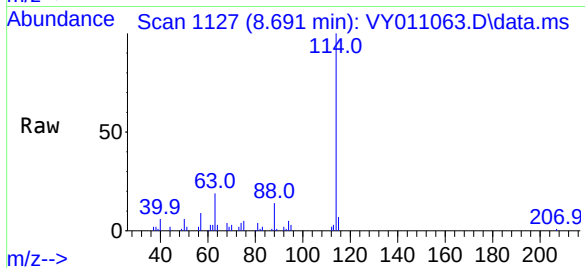
Tgt Ion:114 Resp: 29161

Ion Ratio Lower Upper

114 100

63 18.8 0.0 43.2

88 13.6 0.0 31.8



#35

Dibromofluoromethane

Concen: 65.979 ug/l

RT: 7.716 min Scan# 967

Delta R.T. 0.006 min

Lab File: VY011063.D

Acq: 24 Oct 2022 12:57

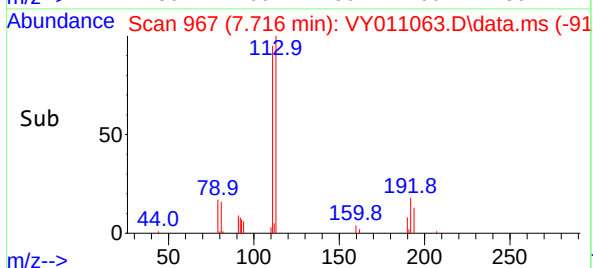
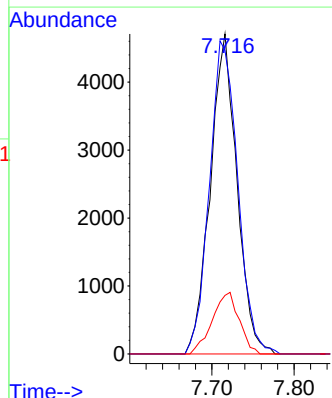
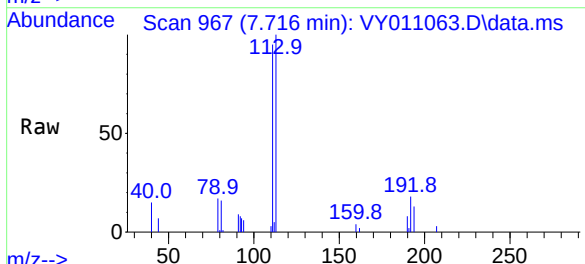
Tgt Ion:113 Resp: 10613

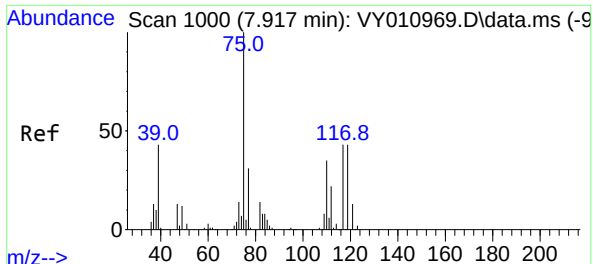
Ion Ratio Lower Upper

113 100

111 103.9 82.6 124.0

192 19.4 17.6 26.4





#36

1,1-Dichloropropene

Concen: 5.176 ug/l

RT: 7.789 min Scan# 91

Delta R.T. -0.128 min

Lab File: VY011063.D

Acq: 24 Oct 2022 12:57

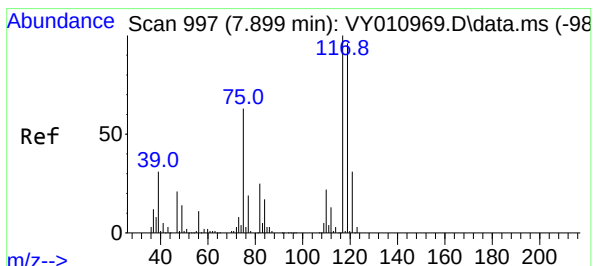
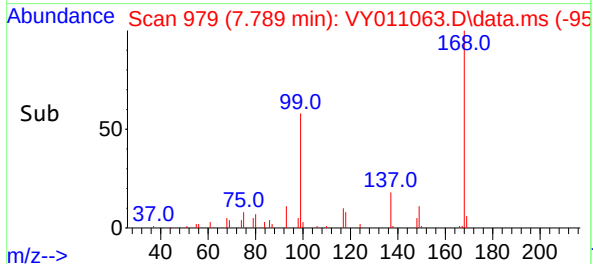
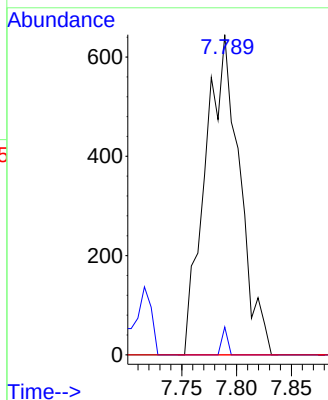
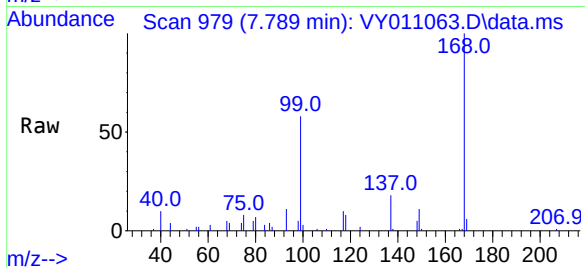
Instrument :

MSVOA_Y

ClientSampleId :

SB-L1-3.5-4.0RE

Tgt Ion: 75	Resp: 1405
Ion Ratio	Lower Upper
75 100	
110 1.4	17.1 51.2#
77 0.0	24.4 36.6#



#38

Carbon Tetrachloride

Concen: 6.513 ug/l

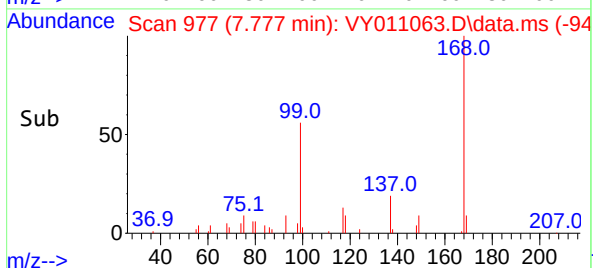
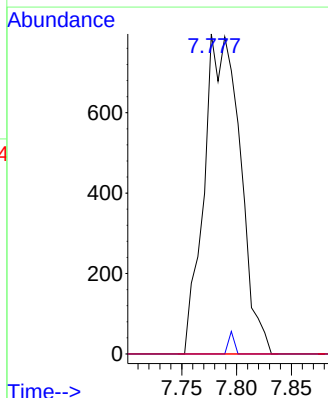
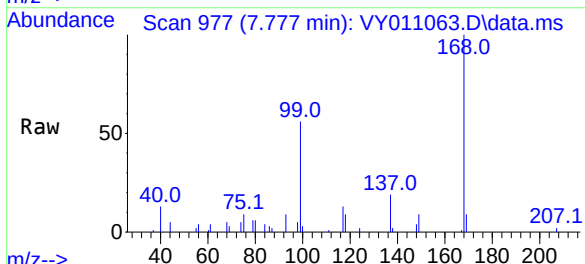
RT: 7.777 min Scan# 977

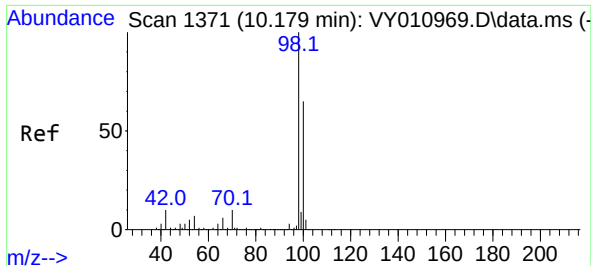
Delta R.T. -0.122 min

Lab File: VY011063.D

Acq: 24 Oct 2022 12:57

Tgt Ion: 117	Resp: 1825
Ion Ratio	Lower Upper
117 100	
119 0.0	77.9 116.9#
121 0.0	24.8 37.2#

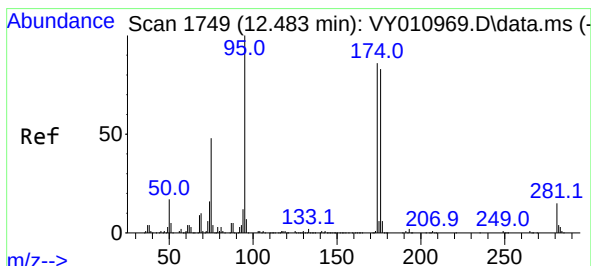
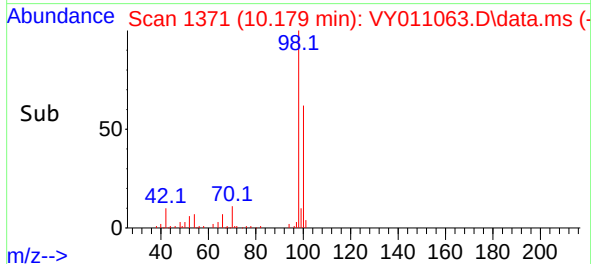
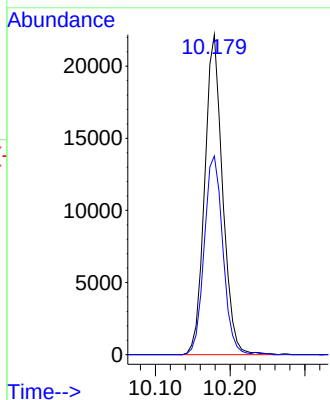
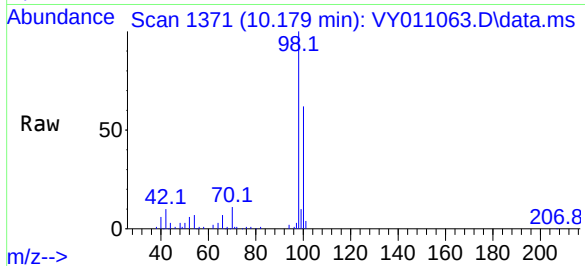




#50
Toluene-d8
Concen: 60.598 ug/l
RT: 10.179 min Scan# 11
Delta R.T. -0.000 min
Lab File: VY011063.D
Acq: 24 Oct 2022 12:57

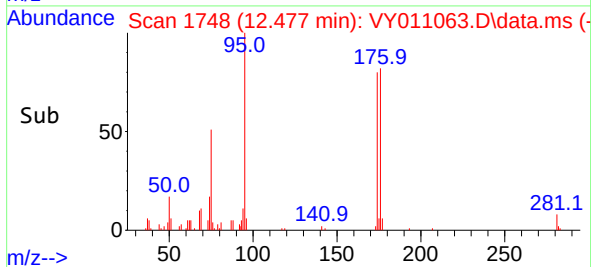
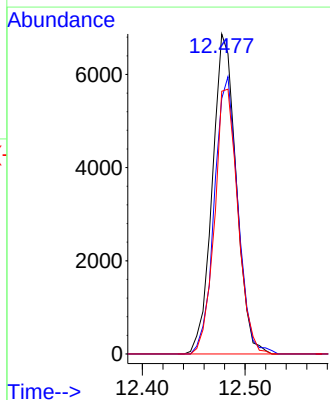
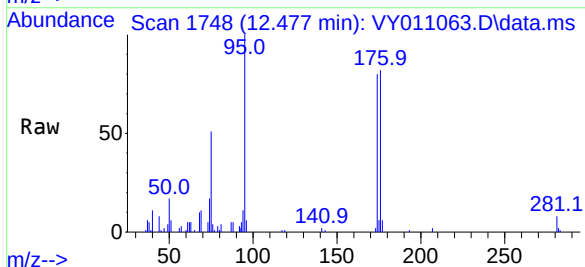
Instrument :
MSVOA_Y
ClientSampleId :
SB-L1-3.5-4.0RE

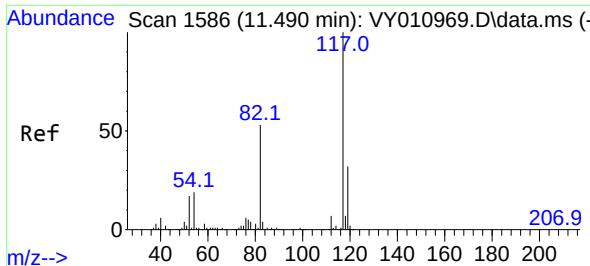
Tgt Ion: 98 Resp: 36897
Ion Ratio Lower Upper
98 100
100 64.5 50.2 75.2



#62
4-Bromofluorobenzene
Concen: 51.308 ug/l
RT: 12.477 min Scan# 1748
Delta R.T. -0.006 min
Lab File: VY011063.D
Acq: 24 Oct 2022 12:57

Tgt Ion: 95 Resp: 11049
Ion Ratio Lower Upper
95 100
174 85.3 0.0 177.0
176 80.8 0.0 175.8

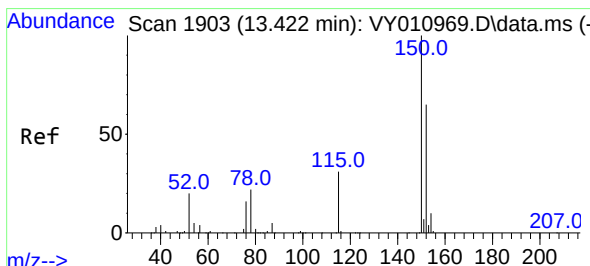
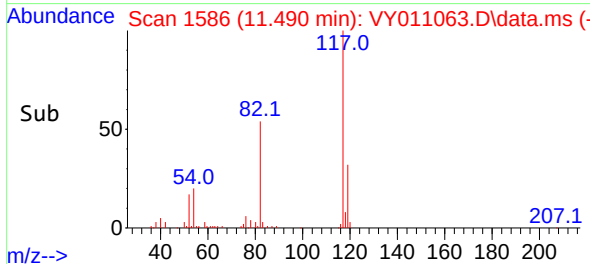
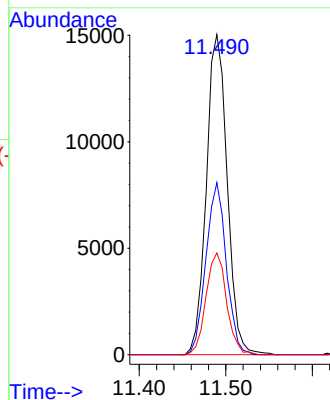
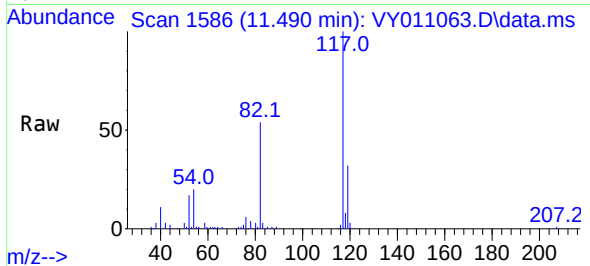




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.490 min Scan# 1170
Delta R.T. -0.000 min
Lab File: VY011063.D
Acq: 24 Oct 2022 12:57

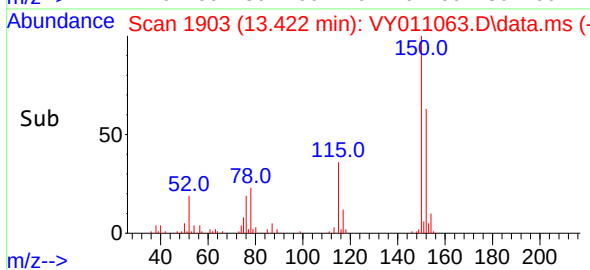
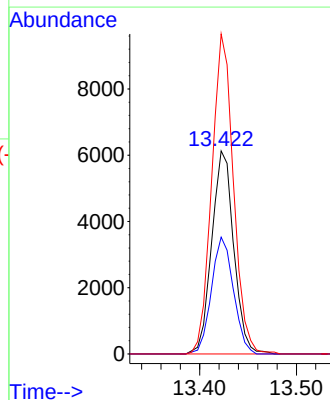
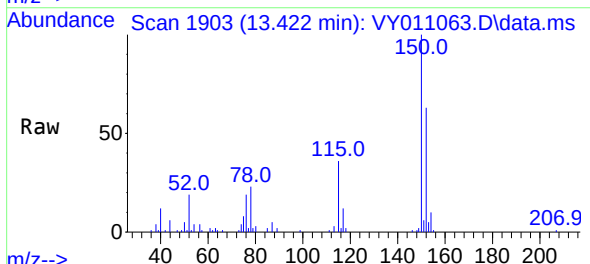
Instrument :
MSVOA_Y
ClientSampleId :
SB-L1-3.5-4.0RE

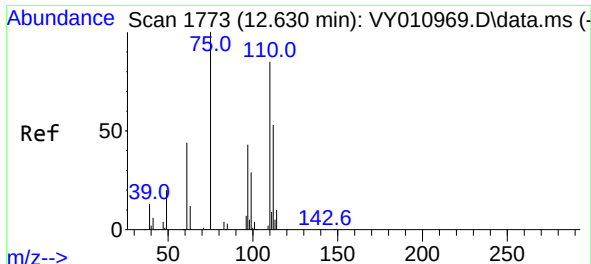
Tgt Ion:117	Resp:	25154
Ion Ratio	Lower	Upper
117	100	
82	53.8	43.0 64.4
119	31.8	25.4 38.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.422 min Scan# 1903
Delta R.T. 0.000 min
Lab File: VY011063.D
Acq: 24 Oct 2022 12:57

Tgt Ion:152	Resp:	9689
Ion Ratio	Lower	Upper
152	100	
115	57.4	28.2 84.7
150	155.6	0.0 347.6

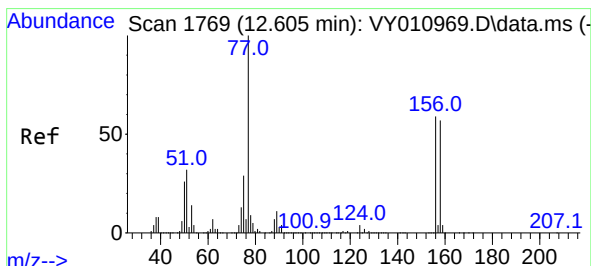
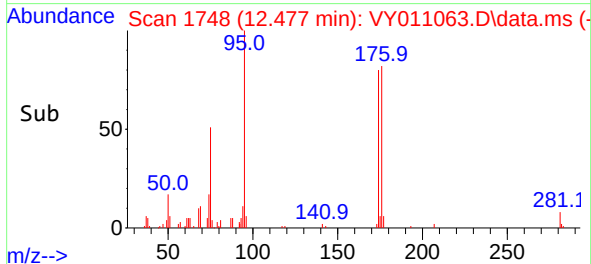
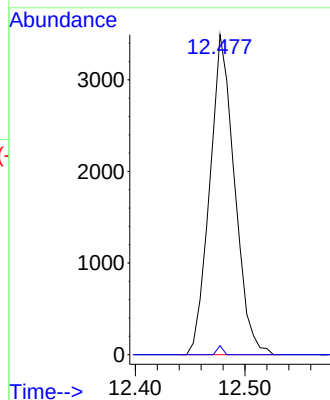
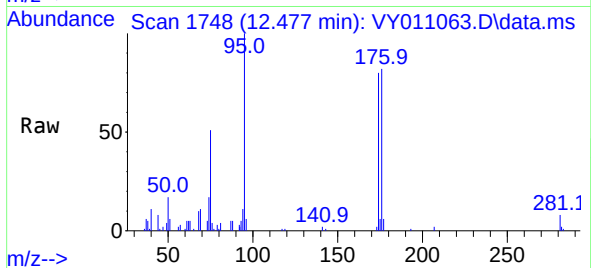




#76
1,2,3-Trichloropropane
Concen: 49.990 ug/l
RT: 12.477 min Scan# 11
Delta R.T. -0.153 min
Lab File: VY011063.D
Acq: 24 Oct 2022 12:57

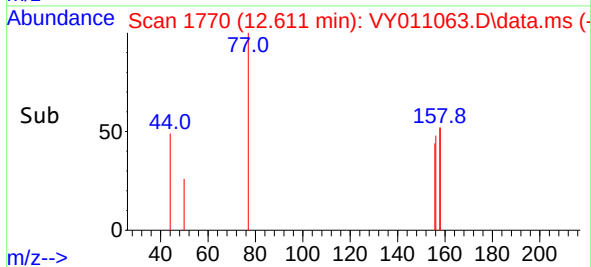
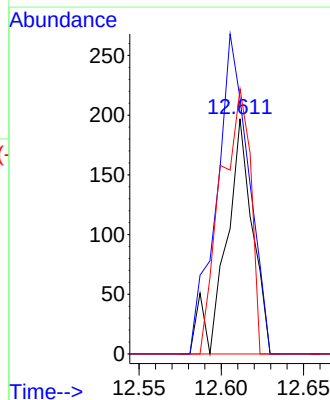
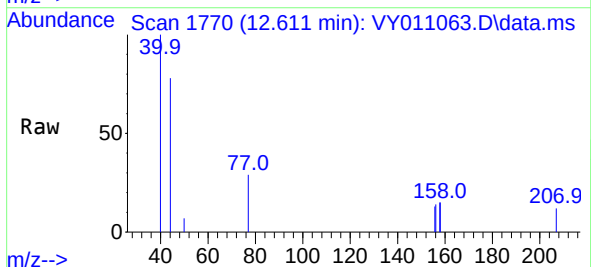
Instrument :
MSVOA_Y
ClientSampleId :
SB-L1-3.5-4.0RE

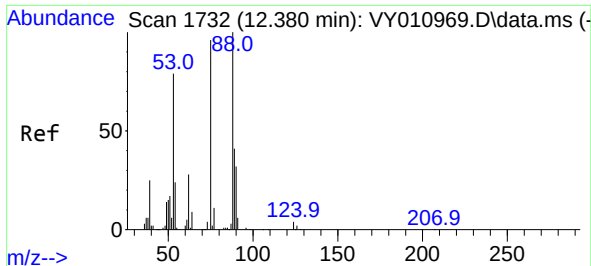
Tgt Ion: 75 Resp: 5499
Ion Ratio Lower Upper
75 100
77 0.7 0.0 0.0#



#77
Bromobenzene
Concen: 1.361 ug/l
RT: 12.611 min Scan# 1770
Delta R.T. 0.006 min
Lab File: VY011063.D
Acq: 24 Oct 2022 12:57

Tgt Ion: 156 Resp: 224
Ion Ratio Lower Upper
156 100
77 162.9 95.5 286.4
158 125.0 48.0 144.0

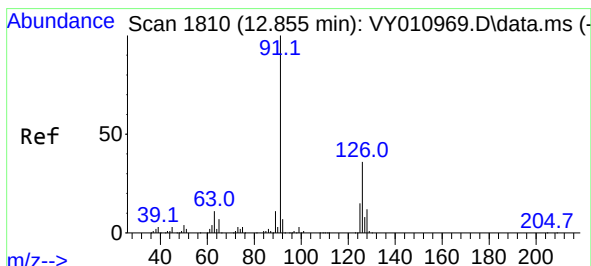
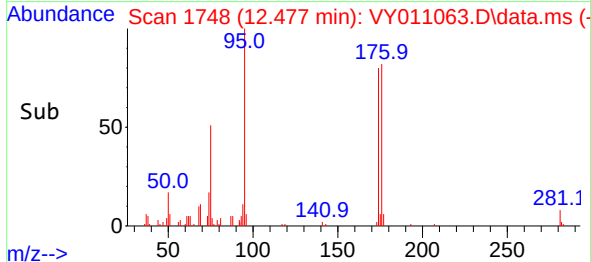
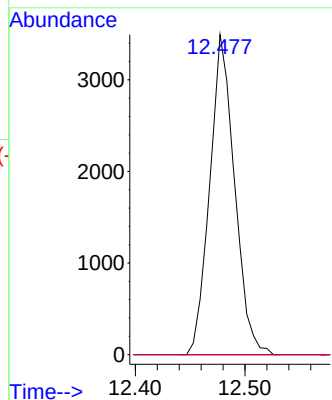
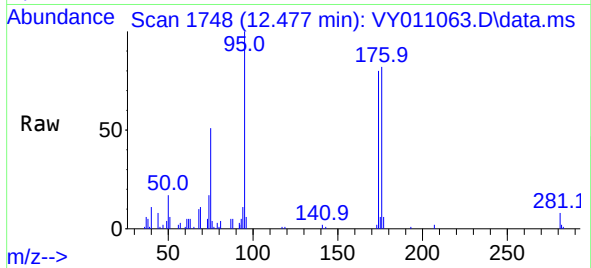




#81
trans-1,4-Dichloro-2-butene
Concen: 107.515 ug/l
RT: 12.477 min Scan# 11
Delta R.T. 0.097 min
Lab File: VY011063.D
Acq: 24 Oct 2022 12:57

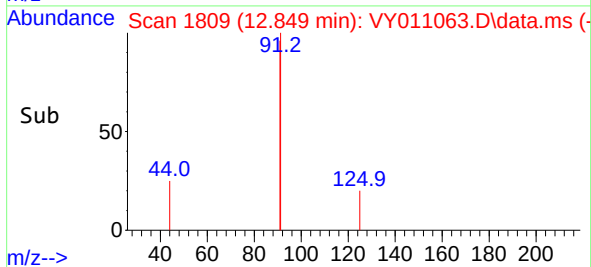
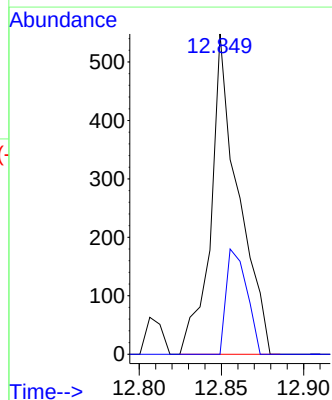
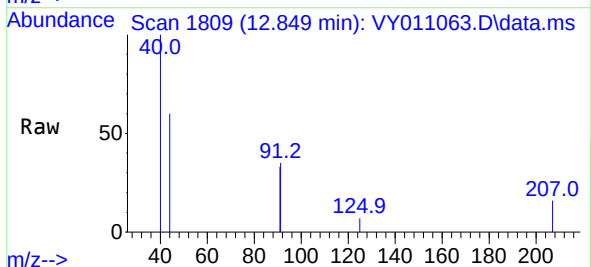
Instrument :
MSVOA_Y
ClientSampleId :
SB-L1-3.5-4.0RE

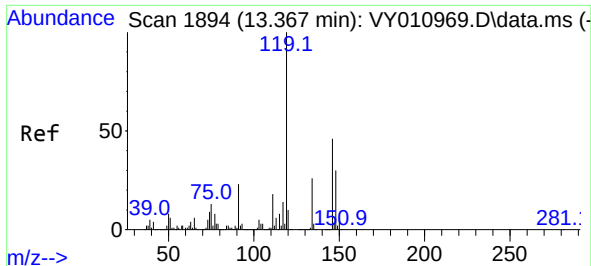
Tgt Ion: 75 Resp: 5499
Ion Ratio Lower Upper
75 100
53 0.0 85.3 127.9#
89 0.0 37.0 55.4#



#82
4-Chlorotoluene
Concen: 1.266 ug/l
RT: 12.849 min Scan# 1809
Delta R.T. -0.006 min
Lab File: VY011063.D
Acq: 24 Oct 2022 12:57

Tgt Ion: 91 Resp: 636
Ion Ratio Lower Upper
91 100
126 24.5 17.0 51.0





#87

1,3-Dichlorobenzene

Concen: 1.876 ug/l

RT: 13.367 min Scan# 1894

Delta R.T. 0.000 min

Lab File: VY011063.D

Acq: 24 Oct 2022 12:57

Instrument :

MSVOA_Y

ClientSampleId :

SB-L1-3.5-4.0RE

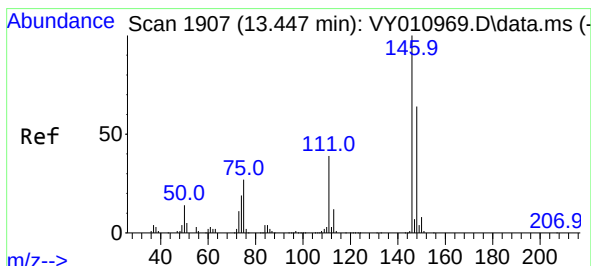
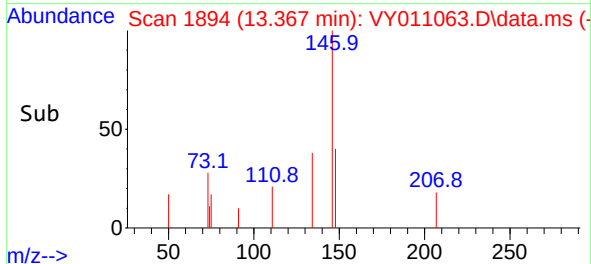
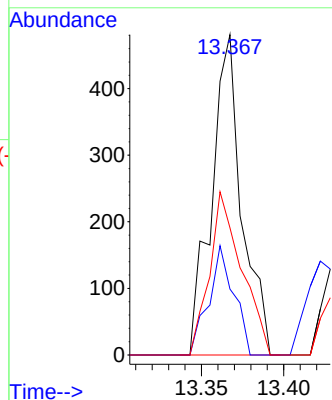
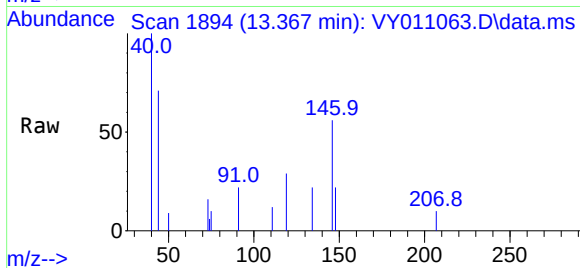
Tgt Ion:146 Resp: 616

Ion Ratio Lower Upper

146 100

111 28.2 19.5 58.5

148 53.9 31.6 95.0



#88

1,4-Dichlorobenzene

Concen: 1.887 ug/l

RT: 13.367 min Scan# 1894

Delta R.T. -0.080 min

Lab File: VY011063.D

Acq: 24 Oct 2022 12:57

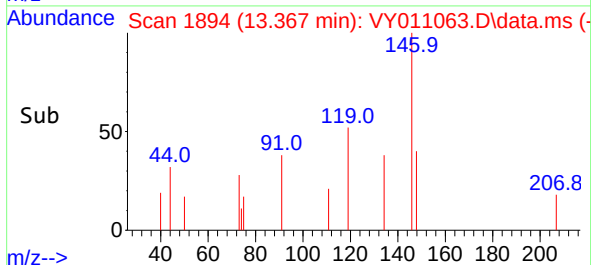
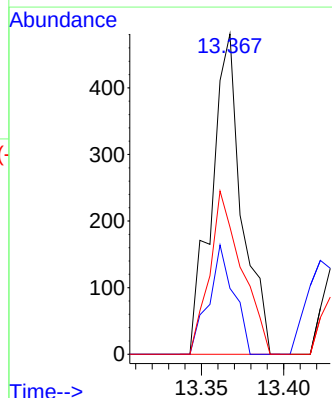
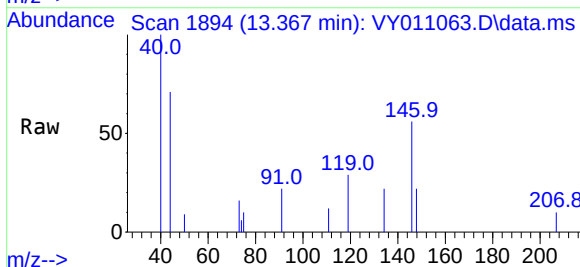
Tgt Ion:146 Resp: 616

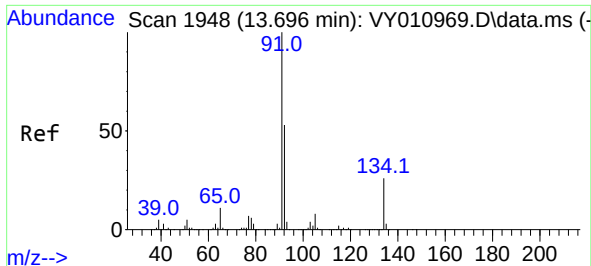
Ion Ratio Lower Upper

146 100

111 28.2 19.3 57.8

148 53.9 32.6 97.8





#89

n-Butylbenzene

Concen: 1.083 ug/l

RT: 13.697 min Scan# 1948

Delta R.T. 0.001 min

Lab File: VY011063.D

Acq: 24 Oct 2022 12:57

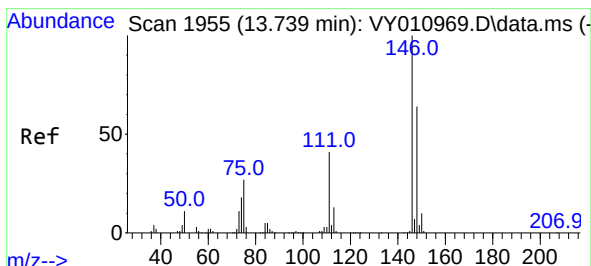
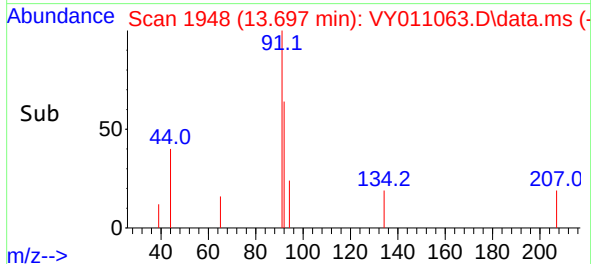
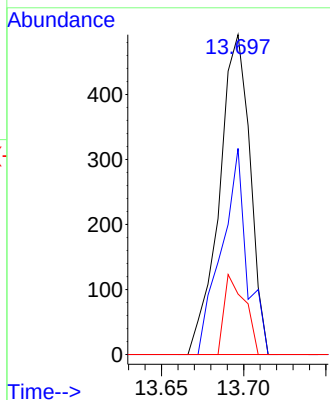
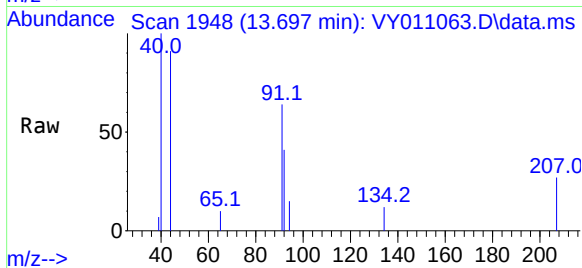
Instrument :

MSVOA_Y

ClientSampleId :

SB-L1-3.5-4.0RE

Tgt Ion:	91	Resp:	641
Ion	Ratio	Lower	Upper
91	100		
92	53.4	26.3	78.9
134	16.8	13.0	38.9



#91

1,2-Dichlorobenzene

Concen: 2.086 ug/l

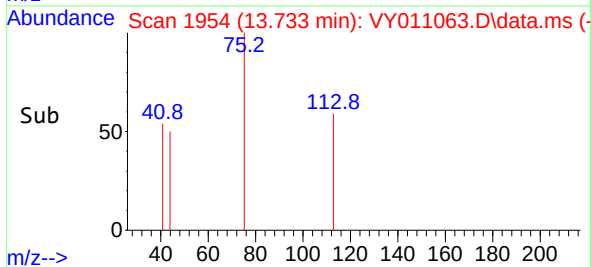
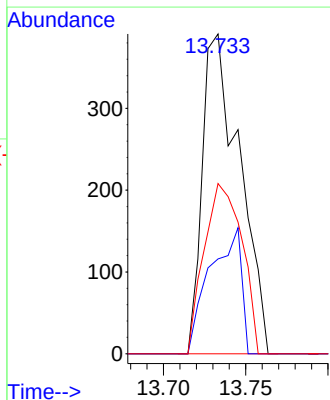
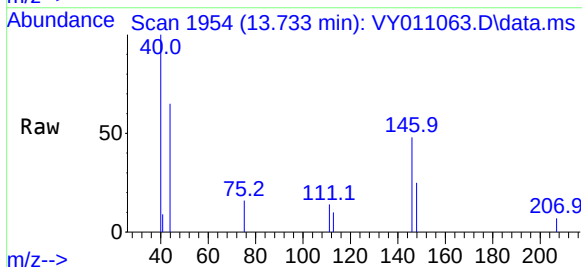
RT: 13.733 min Scan# 1954

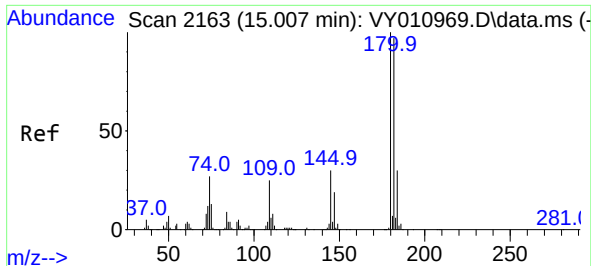
Delta R.T. -0.006 min

Lab File: VY011063.D

Acq: 24 Oct 2022 12:57

Tgt Ion:	146	Resp:	613
Ion	Ratio	Lower	Upper
146	100		
111	33.1	20.3	60.9
148	54.2	32.3	96.9

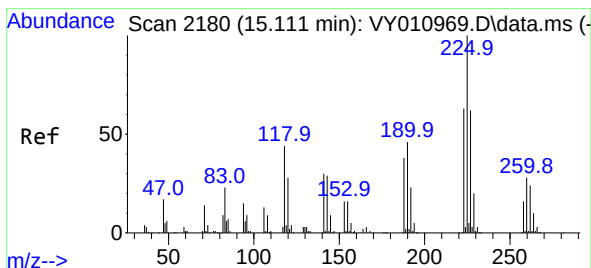
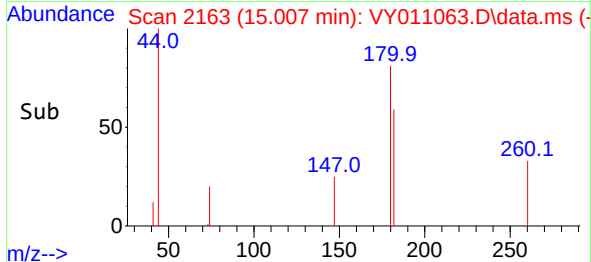
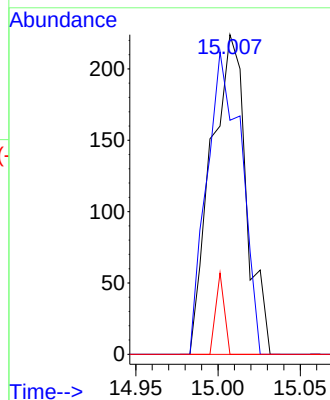
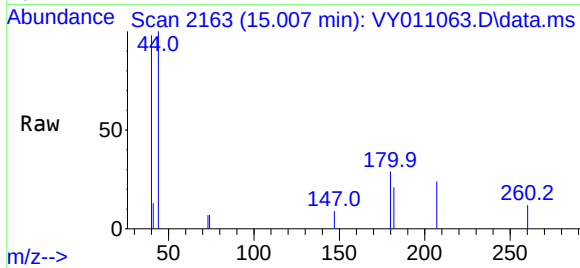




#93
1,2,4-Trichlorobenzene
Concen: 1.891 ug/l
RT: 15.007 min Scan# 2163
Delta R.T. 0.000 min
Lab File: VY011063.D
Acq: 24 Oct 2022 12:57

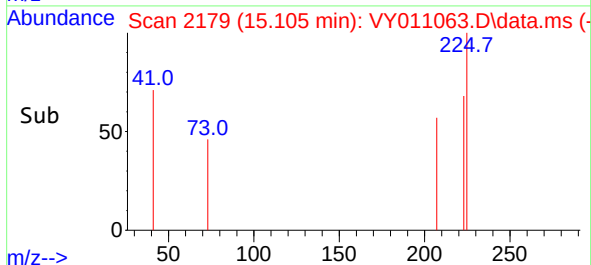
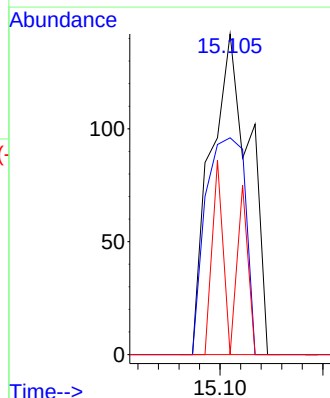
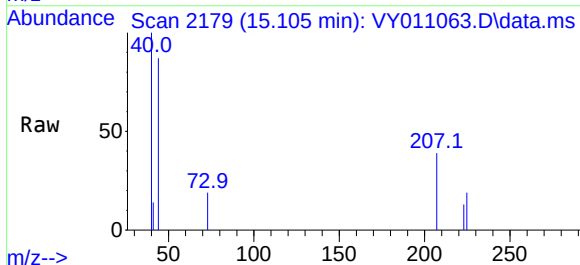
Instrument :
MSVOA_Y
ClientSampleId :
SB-L1-3.5-4.0RE

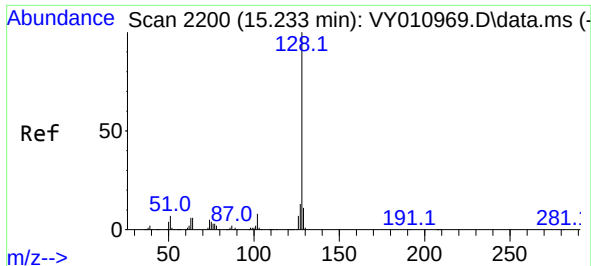
Tgt Ion:180 Resp: 332
Ion Ratio Lower Upper
180 100
182 92.8 47.3 141.9
145 6.3 14.6 43.8#



#94
Hexachlorobutadiene
Concen: 1.809 ug/l
RT: 15.105 min Scan# 2179
Delta R.T. -0.006 min
Lab File: VY011063.D
Acq: 24 Oct 2022 12:57

Tgt Ion:225 Resp: 187
Ion Ratio Lower Upper
225 100
223 68.4 30.8 92.3
227 31.6 31.6 94.7

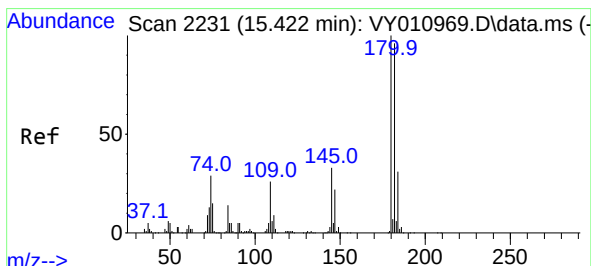
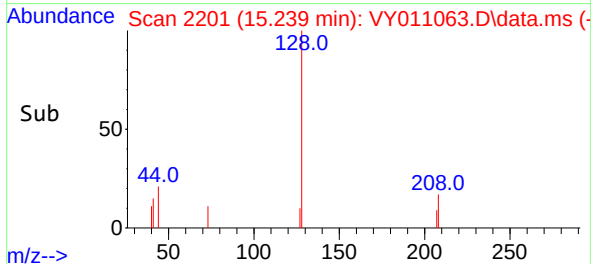
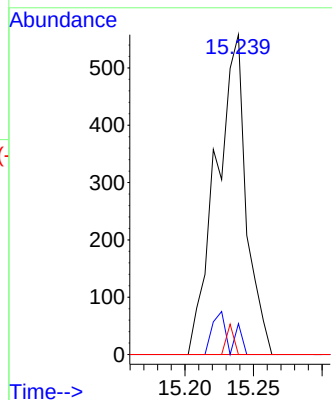
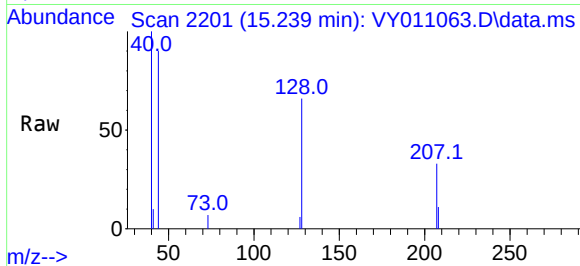




#95
Naphthalene
Concen: 2.391 ug/l
RT: 15.239 min Scan# 211
Delta R.T. 0.006 min
Lab File: VY011063.D
Acq: 24 Oct 2022 12:57

Instrument :
MSVOA_Y
ClientSampleId :
SB-L1-3.5-4.0RE

Tgt Ion:128 Resp: 855
Ion Ratio Lower Upper
128 100
127 8.0 11.0 16.4#
129 2.2 8.4 12.6#



#96
1,2,3-Trichlorobenzene
Concen: 2.135 ug/l
RT: 15.422 min Scan# 2231
Delta R.T. -0.000 min
Lab File: VY011063.D
Acq: 24 Oct 2022 12:57

Tgt Ion:180 Resp: 327
Ion Ratio Lower Upper
180 100
182 97.2 47.3 141.9
145 16.2 15.3 45.9

