

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY071423\
 Data File : VY014657.D
 Acq On : 14 Jul 2023 19:02
 Operator : SY/MD
 Sample : 03632-08
 Misc : 7.99g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 SB-12-(4-6)

Quant Time: Jul 14 23:15:30 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071323S.M
 Quant Title : SW846 8260
 QLast Update : Fri Jul 14 02:09:50 2023
 Response via : Initial Calibration

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

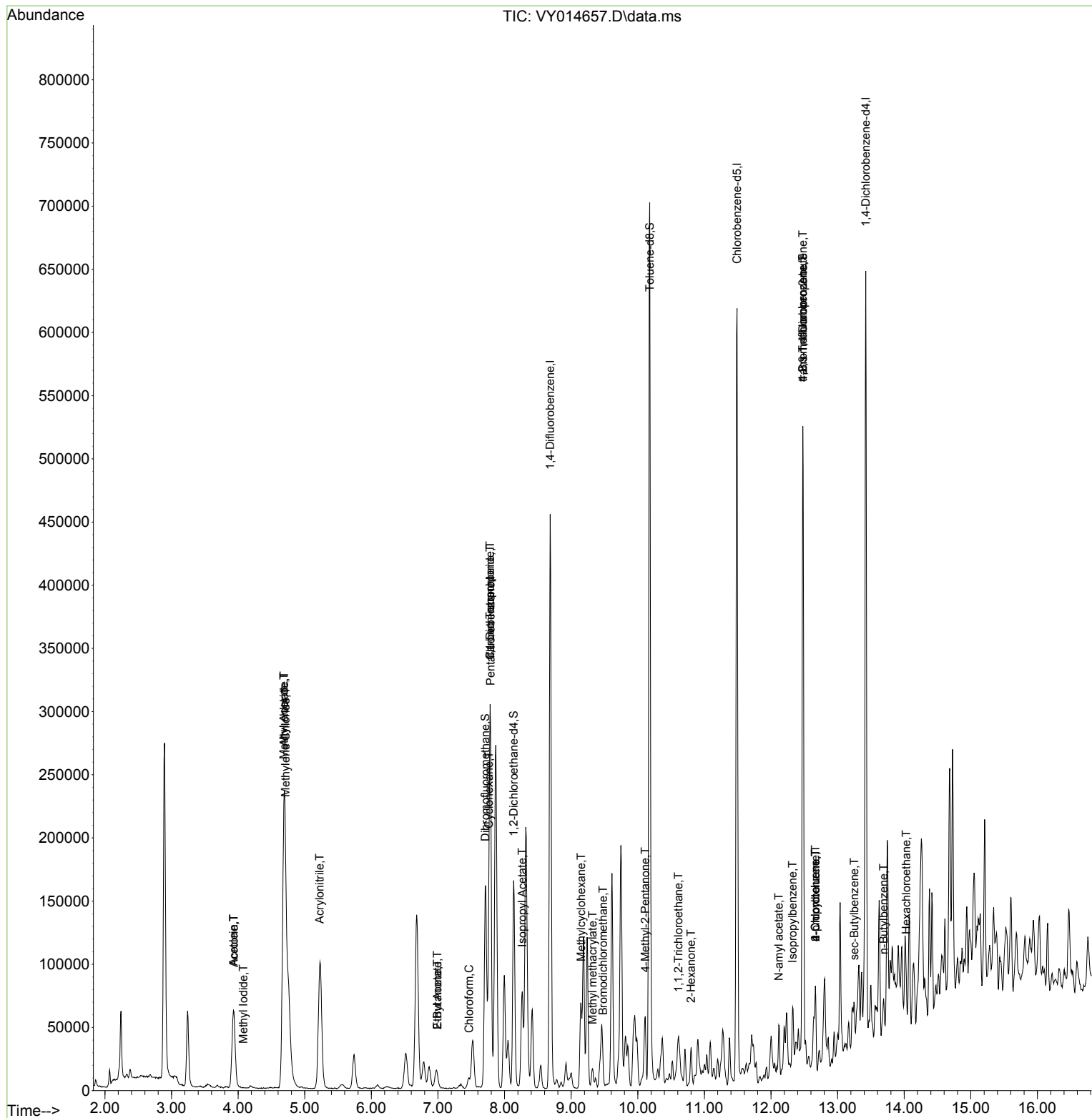
Internal Standards						
1) Pentafluorobenzene	7.789	168	218440	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.685	114	370006	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.490	117	335950	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.422	152	147214	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.137	65	126410	50.783	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 101.560%			
35) Dibromofluoromethane	7.710	113	113645	48.249	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 96.500%			
50) Toluene-d8	10.179	98	439994	50.669	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 101.340%			
62) 4-Bromofluorobenzene	12.477	95	157119	47.187	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 94.380%			
Target Compounds						Qvalue
10) Methyl Iodide	4.076	142	71	2.397	ug/l #	38
11) Tert butyl alcohol	4.948	59	2047	Below Cal	#	89
13) Acrolein	3.930	56	13974	53.711	ug/l #	73
14) Allyl chloride	4.692	41	98405	25.765	ug/l #	61
15) Acrylonitrile	5.222	53	2155	2.797	ug/l #	30
16) Acetone	3.936	43	48563	61.566	ug/l #	68
18) Methyl Acetate	4.686	43	260104	85.927	ug/l #	54
20) Methylene Chloride	4.710	84	36270	10.848	ug/l #	79
25) 2-Butanone	6.990	43	7978	6.913	ug/l #	81
30) Chloroform	7.466	83	5623	1.227	ug/l #	24
31) Cyclohexane	7.765	56	16397	3.968	ug/l #	71
36) 1,1-Dichloropropene	7.783	75	16454	4.671	ug/l #	51
37) Ethyl Acetate	6.990	43	7978	3.290	ug/l #	73
38) Carbon Tetrachloride	7.783	117	22090	5.933	ug/l #	14
39) Methylcyclohexane	9.149	83	10643	2.319	ug/l #	8
43) Isopropyl Acetate	8.265	43	44958	9.732	ug/l #	55
47) Bromodichloromethane	9.478	83	5246	1.403	ug/l #	30
48) Methyl methacrylate	9.319	41	3436	1.653	ug/l #	33
51) 4-Methyl-2-Pentanone	10.112	43	6452	2.660	ug/l #	87
55) 1,1,2-Trichloroethane	10.612	97	10710	4.845	ug/l #	18
59) 2-Hexanone	10.801	43	11891	6.722	ug/l #	35
73) Isopropylbenzene	12.325	105	28351	2.460	ug/l	97
74) N-amyl acetate	12.118	43	9578	2.481	ug/l #	62
76) 1,2,3-Trichloropropane	12.477	75	82574	44.412	ug/l #	100
78) n-propylbenzene	12.666	91	49779	3.584	ug/l	99
79) 2-Chlorotoluene	12.666	91	49779	6.222	ug/l #	40
81) trans-1,4-Dichloro-2-b...	12.477	75	82574	85.990	ug/l #	10
82) 4-Chlorotoluene	12.666	91	49779	6.041	ug/l #	40
85) sec-Butylbenzene	13.251	105	15490	1.237	ug/l #	70
89) n-Butylbenzene	13.690	91	18483	1.857	ug/l	98
90) Hexachloroethane	14.032	117	15531	7.393	ug/l #	8

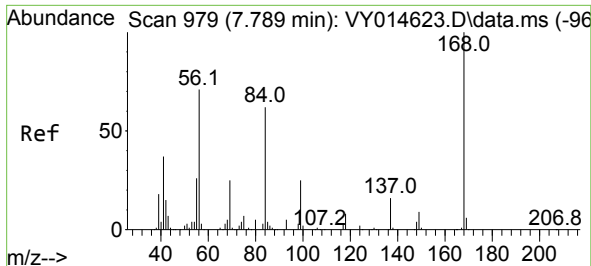
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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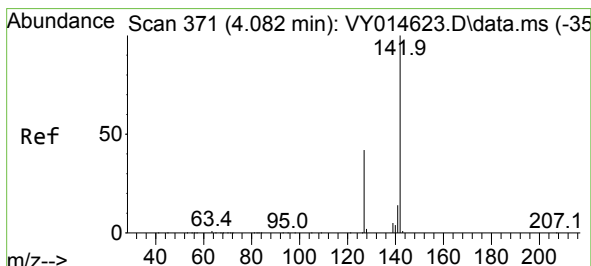
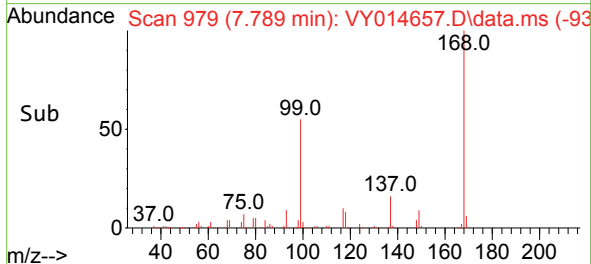
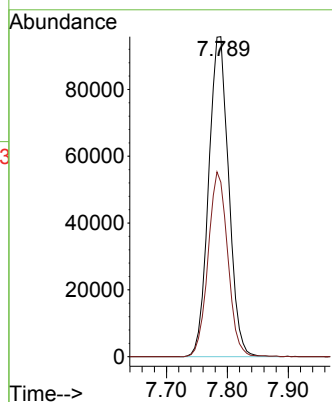
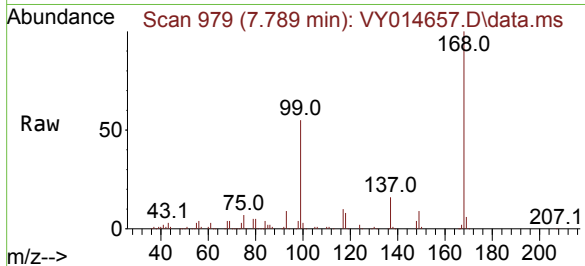




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.789 min Scan# 91
Delta R.T. 0.000 min
Lab File: VY014657.D
Acq: 14 Jul 2023 19:02

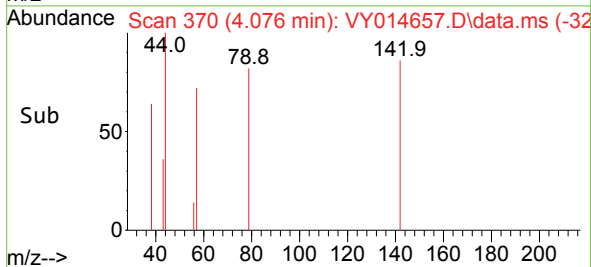
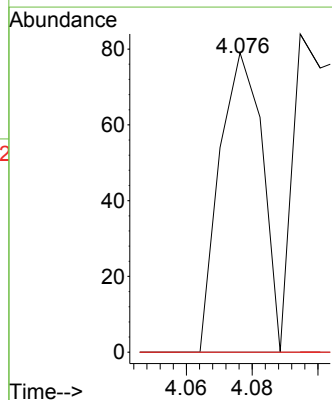
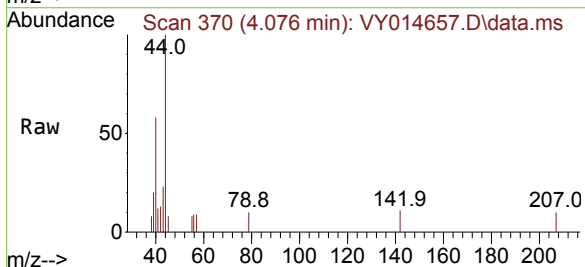
Instrument :
MSVOA_Y
ClientSampleId :
SB-12-(4-6)

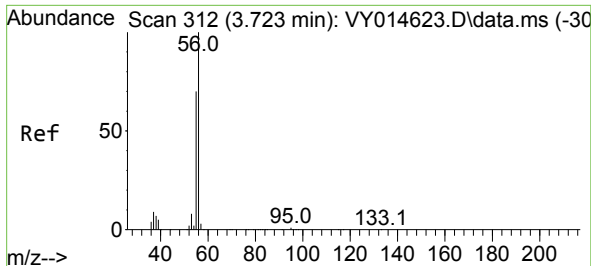
Tgt Ion:168 Resp: 218440
Ion Ratio Lower Upper
168 100
99 54.5 43.4 65.0



#10
Methyl Iodide
Concen: 2.397 ug/l
RT: 4.076 min Scan# 370
Delta R.T. -0.006 min
Lab File: VY014657.D
Acq: 14 Jul 2023 19:02

Tgt Ion:142 Resp: 71
Ion Ratio Lower Upper
142 100
127 0.0 37.6 56.4#
141 0.0 11.8 17.8#





#13

Acrolein

Concen: 53.711 ug/l

RT: 3.930 min Scan# 346

Delta R.T. 0.207 min

Lab File: VY014657.D

Acq: 14 Jul 2023 19:02

Instrument :

MSVOA_Y

ClientSampleId :

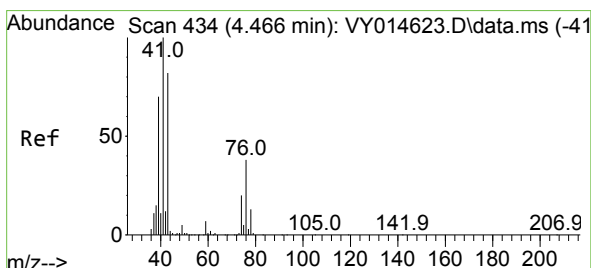
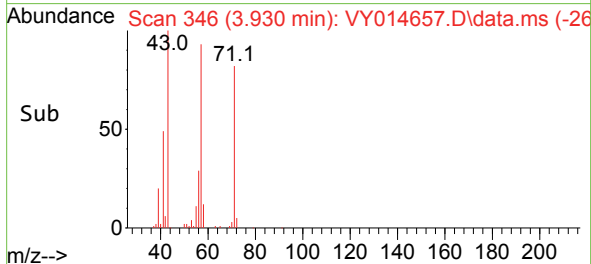
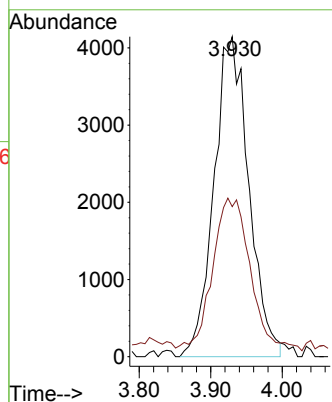
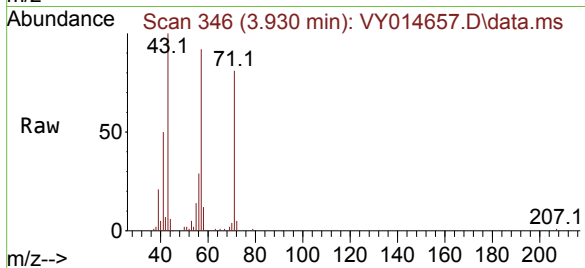
SB-12-(4-6)

Tgt Ion: 56 Resp: 13974

Ion Ratio Lower Upper

56 100

55 48.8 57.0 85.4#



#14

Allyl chloride

Concen: 25.765 ug/l

RT: 4.692 min Scan# 471

Delta R.T. 0.226 min

Lab File: VY014657.D

Acq: 14 Jul 2023 19:02

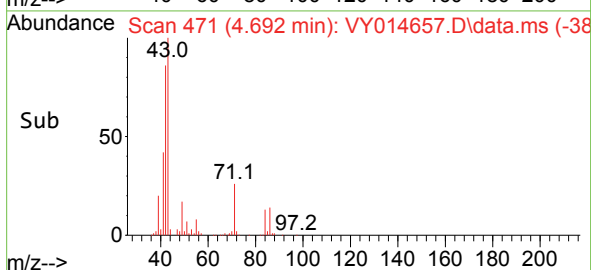
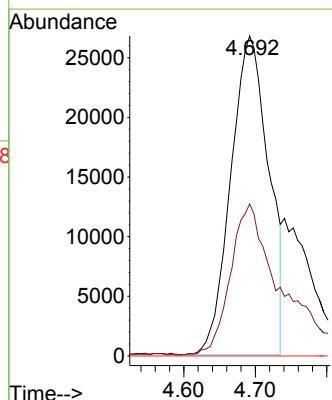
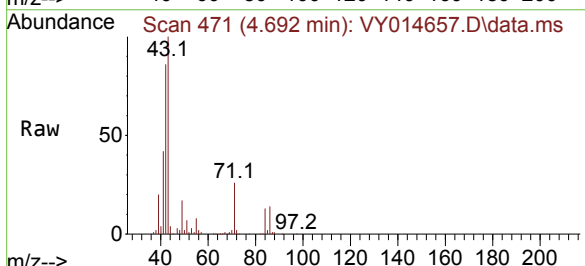
Tgt Ion: 41 Resp: 98405

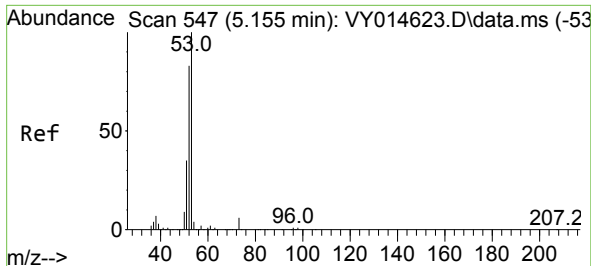
Ion Ratio Lower Upper

41 100

39 48.3 58.0 87.0#

76 0.0 27.4 41.2#

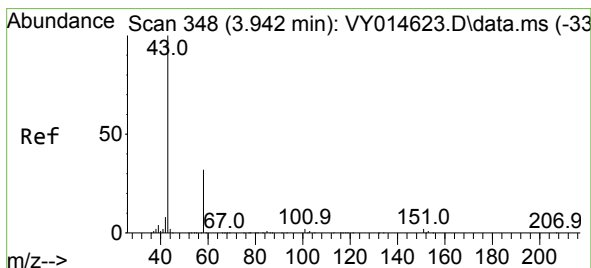
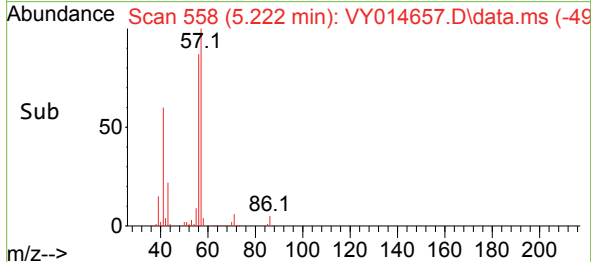
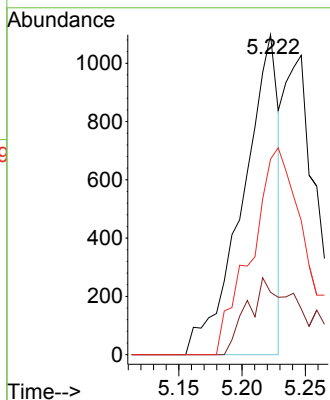
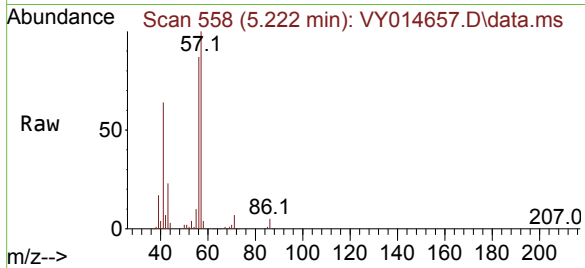




#15
Acrylonitrile
Concen: 2.797 ug/l
RT: 5.222 min Scan# 51
Delta R.T. 0.067 min
Lab File: VY014657.D
Acq: 14 Jul 2023 19:02

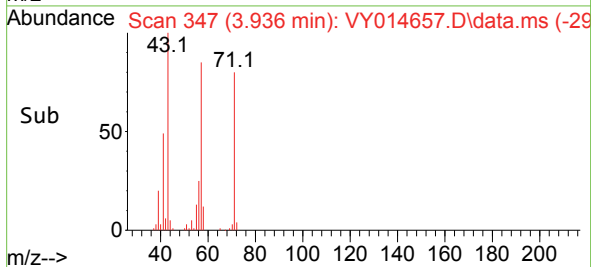
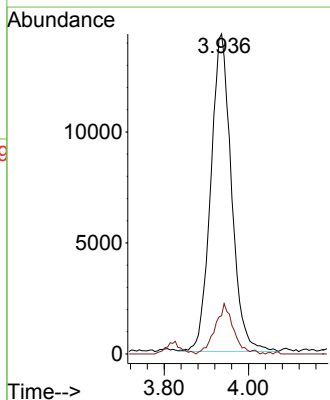
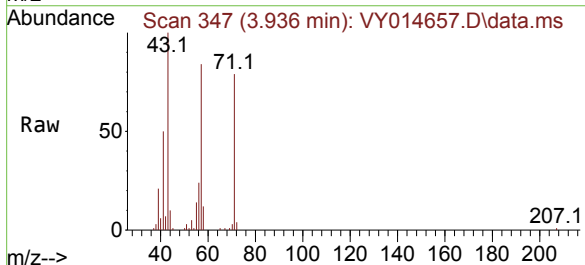
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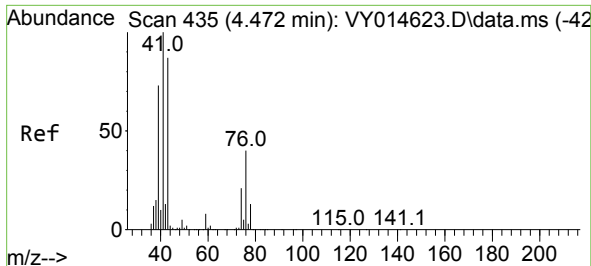
Tgt Ion: 53 Resp: 2155
Ion Ratio Lower Upper
53 100
52 36.8 66.9 100.3#
51 103.3 29.8 44.6#



#16
Acetone
Concen: 61.566 ug/l
RT: 3.936 min Scan# 347
Delta R.T. -0.006 min
Lab File: VY014657.D
Acq: 14 Jul 2023 19:02

Tgt Ion: 43 Resp: 48563
Ion Ratio Lower Upper
43 100
58 11.4 22.7 34.1#

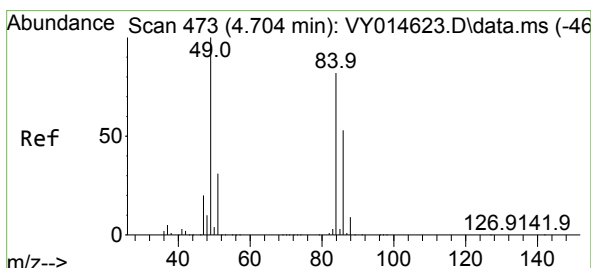
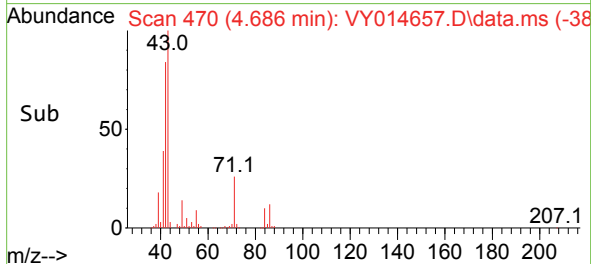
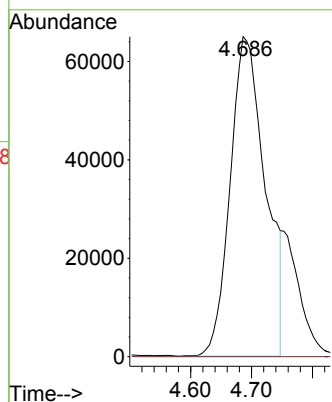
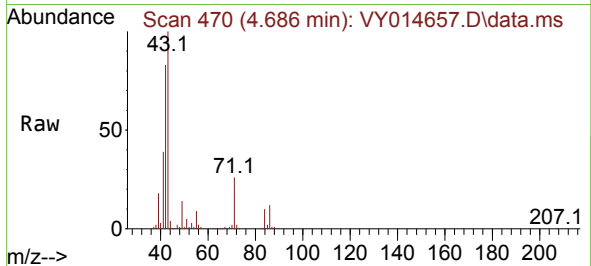




#18
Methyl Acetate
Concen: 85.927 ug/l
RT: 4.686 min Scan# 41
Delta R.T. 0.214 min
Lab File: VY014657.D
Acq: 14 Jul 2023 19:02

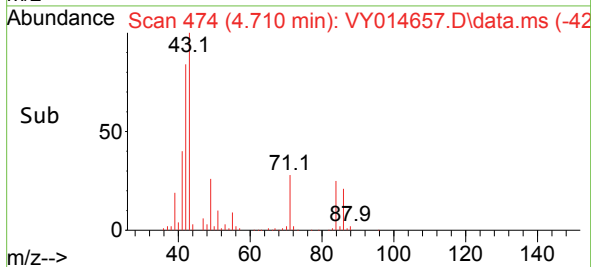
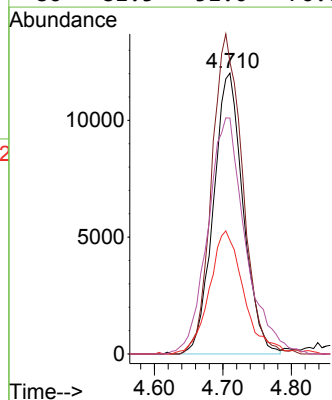
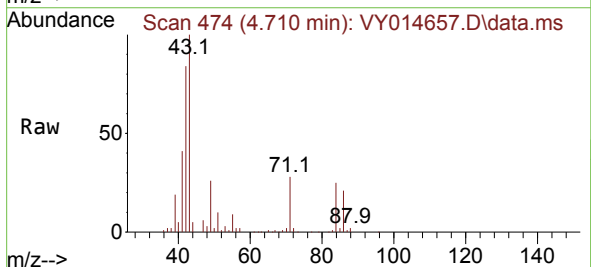
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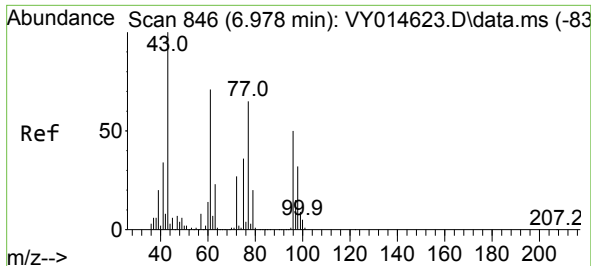
Tgt Ion: 43 Resp: 260104
Ion Ratio Lower Upper
43 100
74 0.0 17.4 26.0#



#20
Methylene Chloride
Concen: 10.848 ug/l
RT: 4.710 min Scan# 474
Delta R.T. 0.006 min
Lab File: VY014657.D
Acq: 14 Jul 2023 19:02

Tgt Ion: 84 Resp: 36270
Ion Ratio Lower Upper
84 100
49 103.9 106.9 160.3#
51 39.4 33.2 49.8
86 81.5 51.0 76.6#

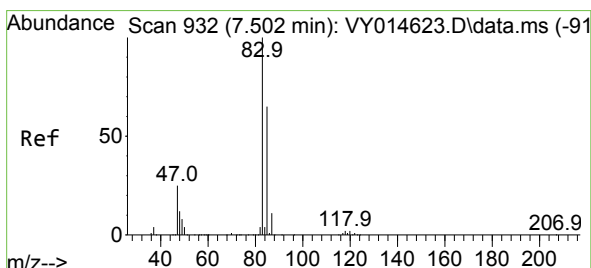
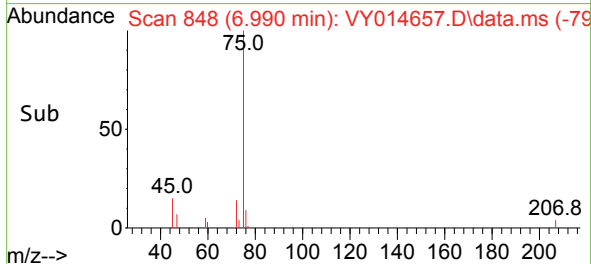
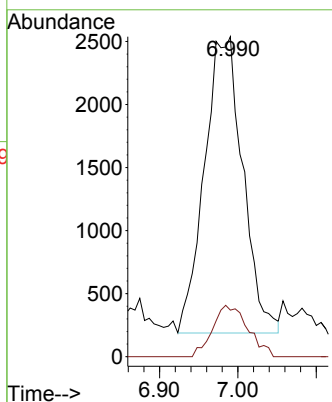
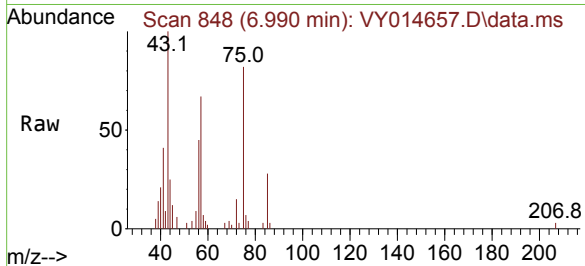




#25
2-Butanone
Concen: 6.913 ug/l
RT: 6.990 min Scan# 846
Delta R.T. 0.012 min
Lab File: VY014657.D
Acq: 14 Jul 2023 19:02

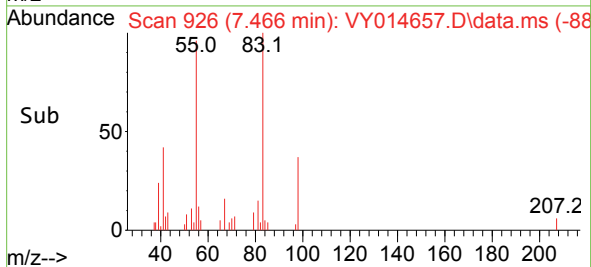
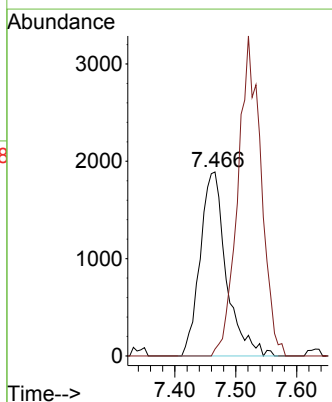
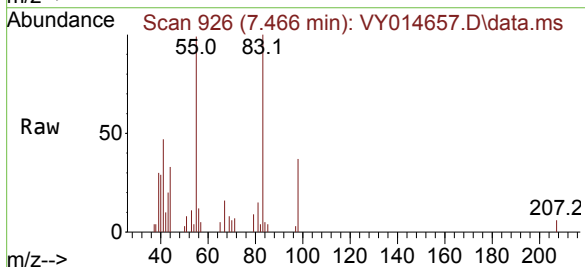
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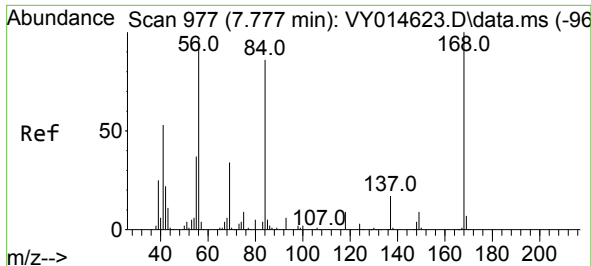
Tgt Ion: 43 Resp: 7978
Ion Ratio Lower Upper
43 100
72 15.7 20.5 30.7#



#30
Chloroform
Concen: 1.227 ug/l
RT: 7.466 min Scan# 926
Delta R.T. -0.036 min
Lab File: VY014657.D
Acq: 14 Jul 2023 19:02

Tgt Ion: 83 Resp: 5623
Ion Ratio Lower Upper
83 100
85 3.7 49.7 74.5#

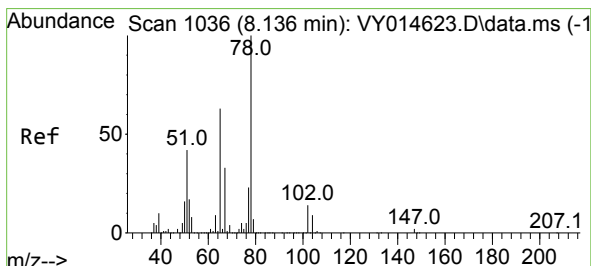
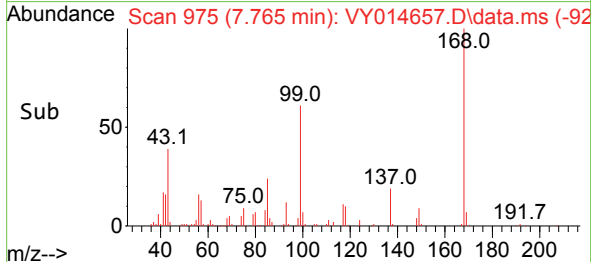
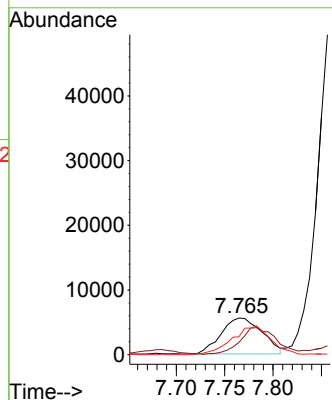
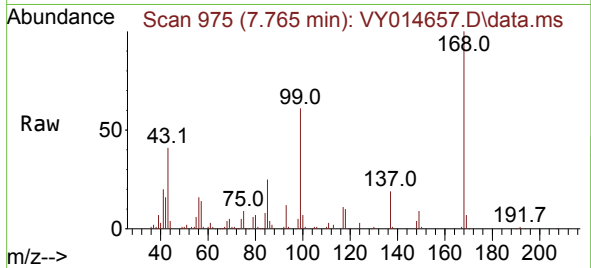




#31
Cyclohexane
Concen: 3.968 ug/l
RT: 7.765 min Scan# 91
Delta R.T. -0.012 min
Lab File: VY014657.D
Acq: 14 Jul 2023 19:02

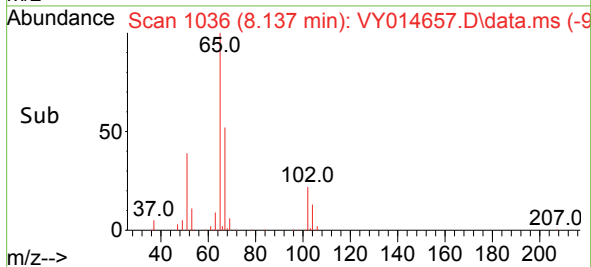
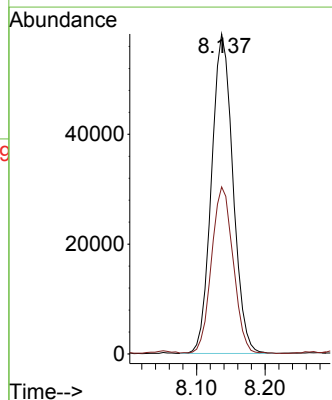
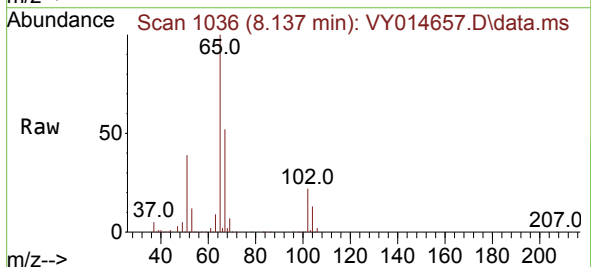
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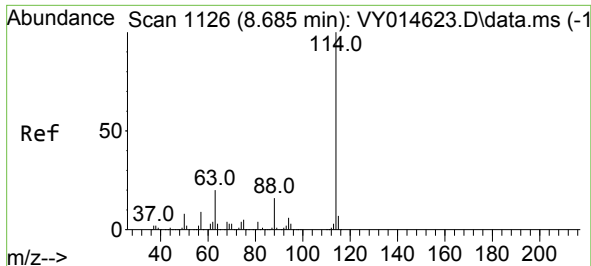
Tgt Ion: 56 Resp: 16397
Ion Ratio Lower Upper
56 100
69 28.7 27.8 41.6
84 50.2 66.4 99.6#



#33
1,2-Dichloroethane-d4
Concen: 50.783 ug/l
RT: 8.137 min Scan# 1036
Delta R.T. 0.001 min
Lab File: VY014657.D
Acq: 14 Jul 2023 19:02

Tgt Ion: 65 Resp: 126410
Ion Ratio Lower Upper
65 100
67 52.5 0.0 101.8

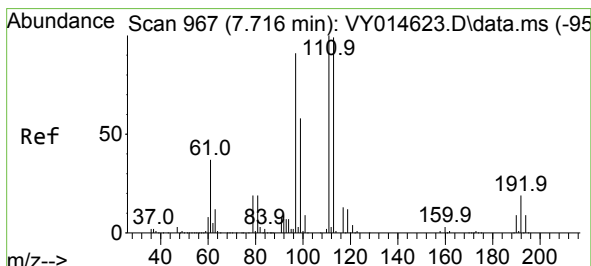
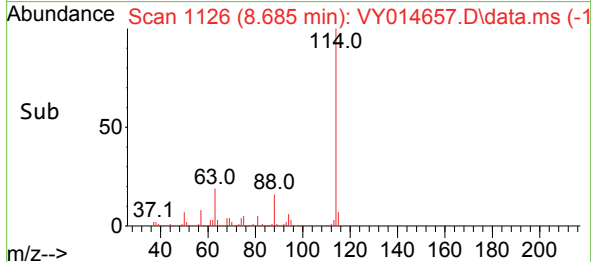
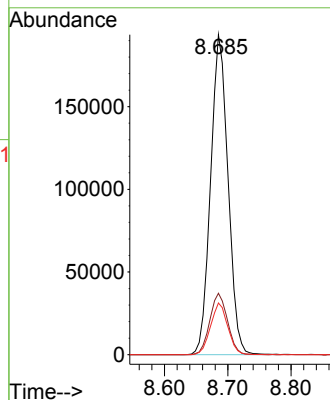
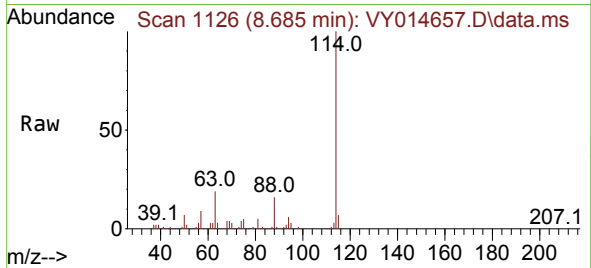




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.685 min Scan# 1126
Delta R.T. 0.000 min
Lab File: VY014657.D
Acq: 14 Jul 2023 19:02

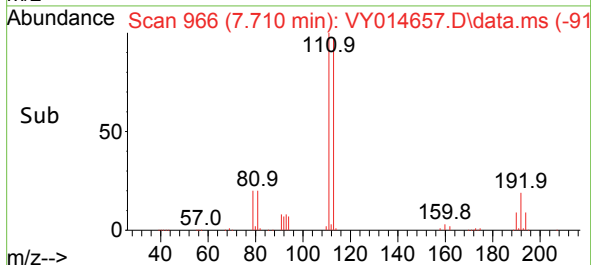
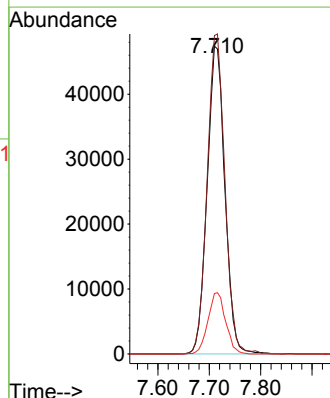
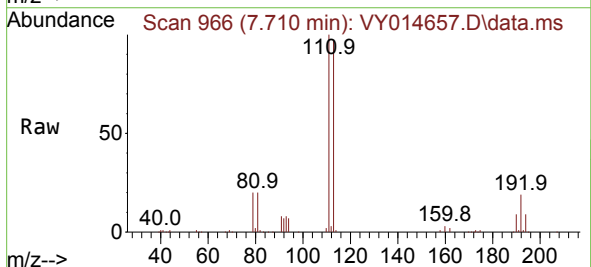
Instrument :
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SB-12-(4-6)

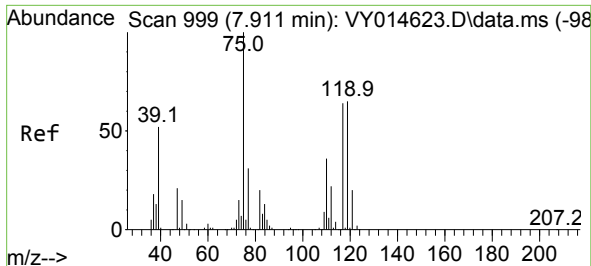
Tgt Ion:114 Resp: 370006
Ion Ratio Lower Upper
114 100
63 19.2 0.0 42.4
88 16.2 0.0 30.6



#35
Dibromofluoromethane
Concen: 48.249 ug/l
RT: 7.710 min Scan# 966
Delta R.T. -0.006 min
Lab File: VY014657.D
Acq: 14 Jul 2023 19:02

Tgt Ion:113 Resp: 113645
Ion Ratio Lower Upper
113 100
111 103.5 81.3 121.9
192 19.8 16.9 25.3

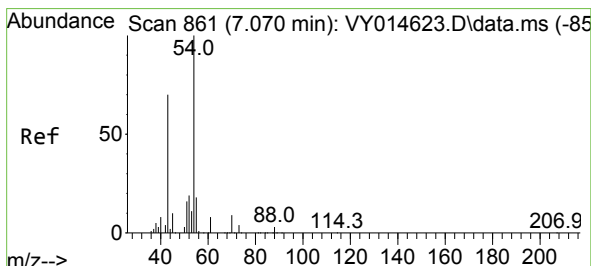
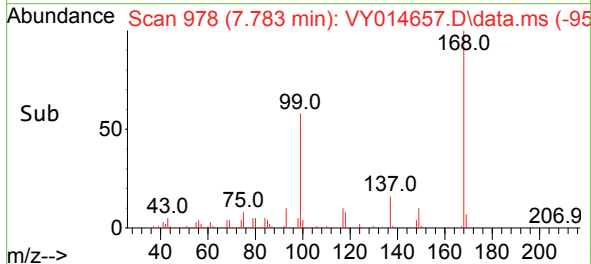
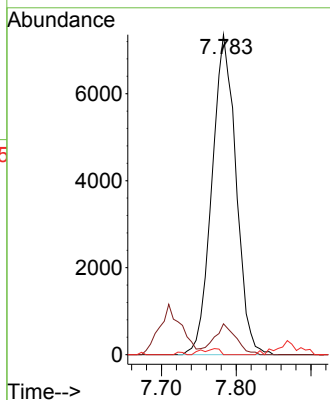
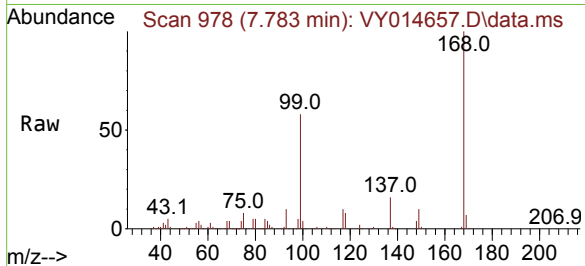




#36
1,1-Dichloropropene
Concen: 4.671 ug/l
RT: 7.783 min Scan# 91
Delta R.T. -0.128 min
Lab File: VY014657.D
Acq: 14 Jul 2023 19:02

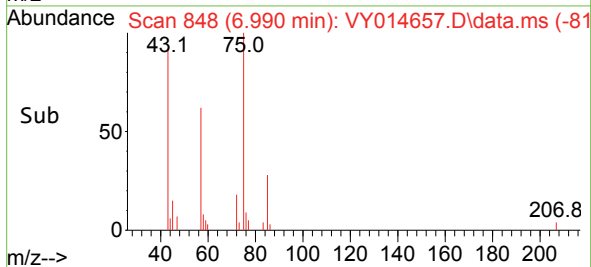
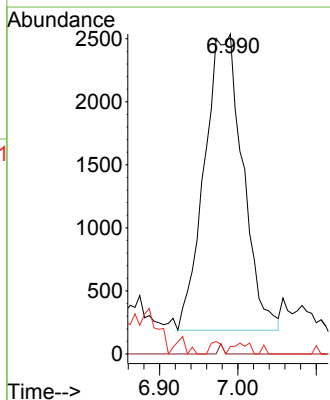
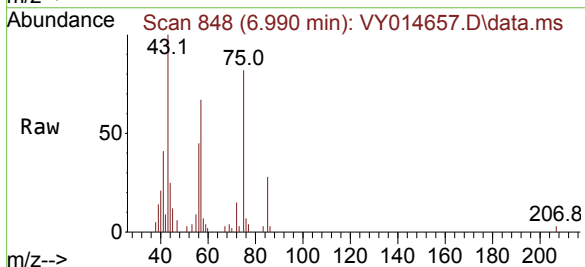
Instrument :
MSVOA_Y
ClientSampleId :
SB-12-(4-6)

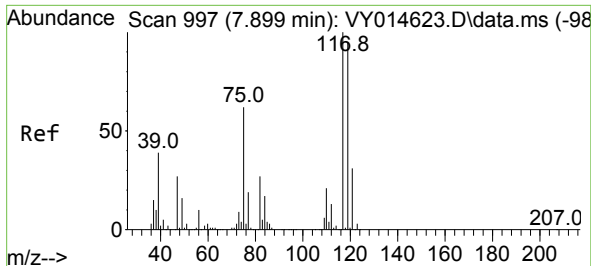
Tgt Ion: 75 Resp: 16454
Ion Ratio Lower Upper
75 100
110 8.7 17.8 53.5#
77 1.4 24.4 36.6#



#37
Ethyl Acetate
Concen: 3.290 ug/l
RT: 6.990 min Scan# 848
Delta R.T. -0.080 min
Lab File: VY014657.D
Acq: 14 Jul 2023 19:02

Tgt Ion: 43 Resp: 7978
Ion Ratio Lower Upper
43 100
61 0.0 10.1 15.1#
70 1.6 7.1 10.7#

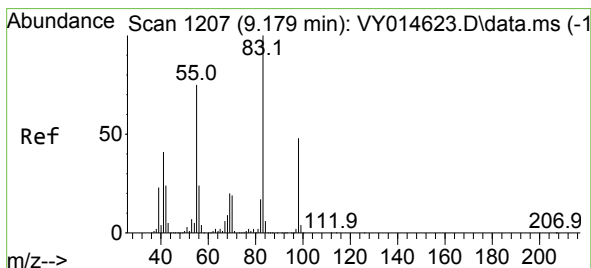
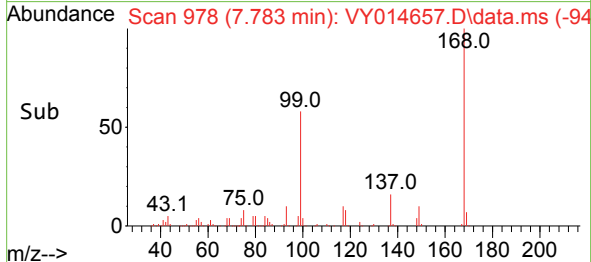
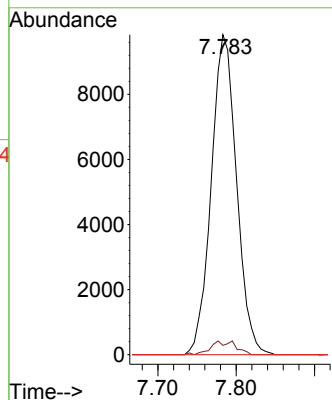
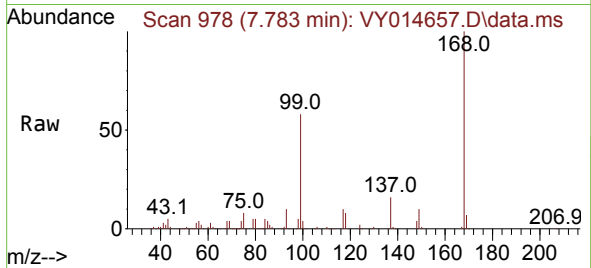




#38
Carbon Tetrachloride
Concen: 5.933 ug/l
RT: 7.783 min Scan# 91
Delta R.T. -0.116 min
Lab File: VY014657.D
Acq: 14 Jul 2023 19:02

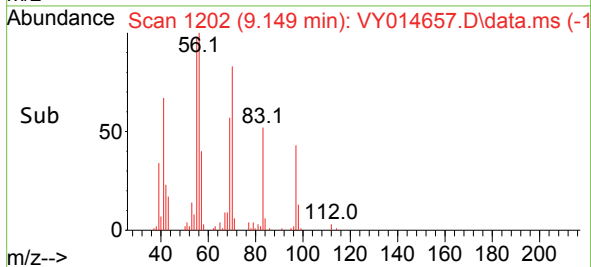
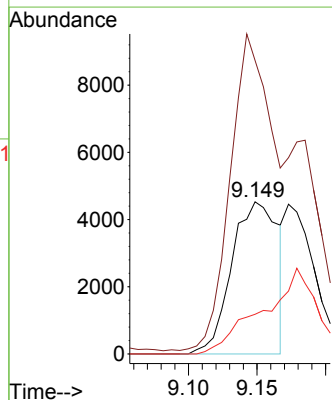
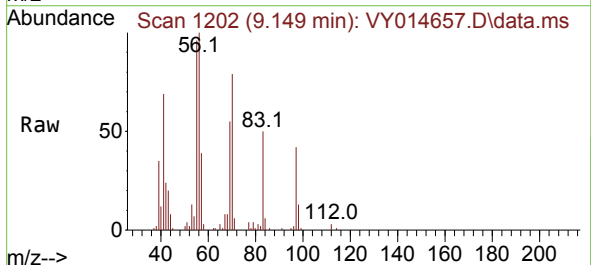
Instrument :
MSVOA_Y
ClientSampleId :
SB-12-(4-6)

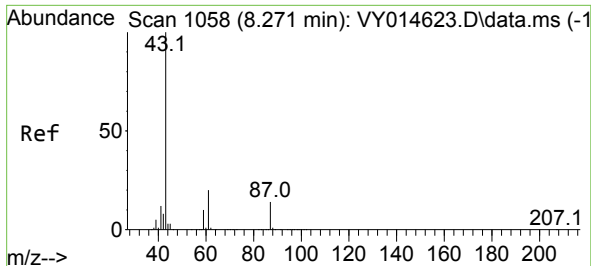
Tgt Ion:117 Resp: 22090
Ion Ratio Lower Upper
117 100
119 2.9 76.4 114.6#
121 0.0 25.8 38.6#



#39
Methylcyclohexane
Concen: 2.319 ug/l
RT: 9.149 min Scan# 1202
Delta R.T. -0.030 min
Lab File: VY014657.D
Acq: 14 Jul 2023 19:02

Tgt Ion: 83 Resp: 10643
Ion Ratio Lower Upper
83 100
55 190.6 63.0 94.4#
98 26.1 37.4 56.2#

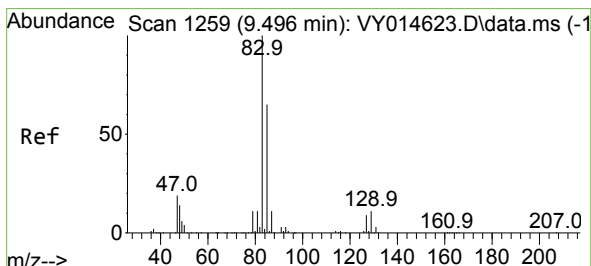
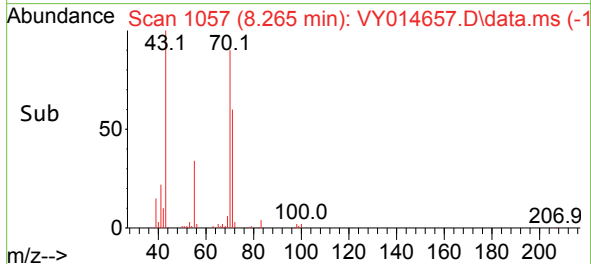
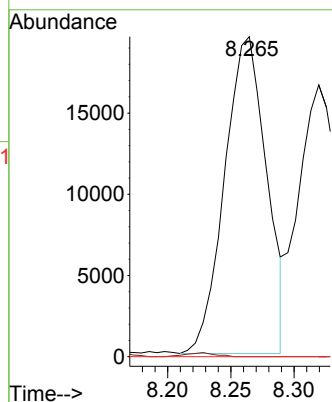
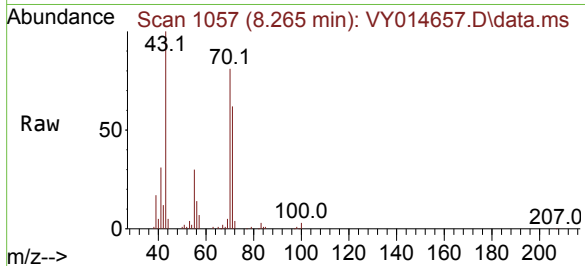




#43
Isopropyl Acetate
Concen: 9.732 ug/l
RT: 8.265 min Scan# 1057
Delta R.T. -0.006 min
Lab File: VY014657.D
Acq: 14 Jul 2023 19:02

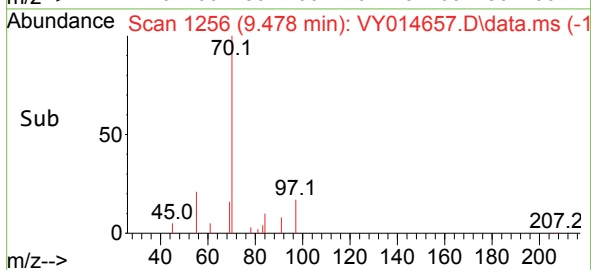
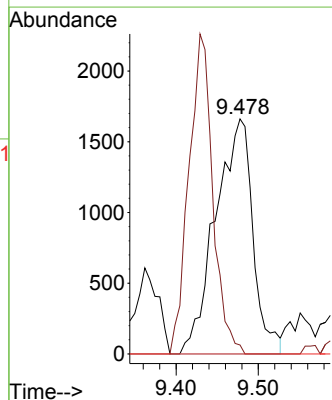
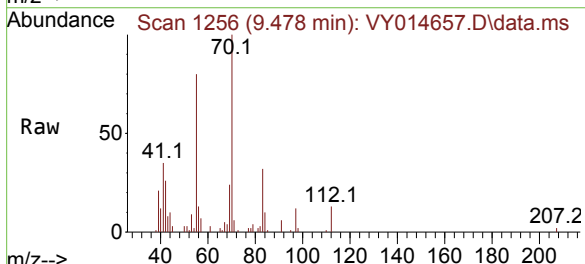
Instrument :
MSVOA_Y
ClientSampleId :
SB-12-(4-6)

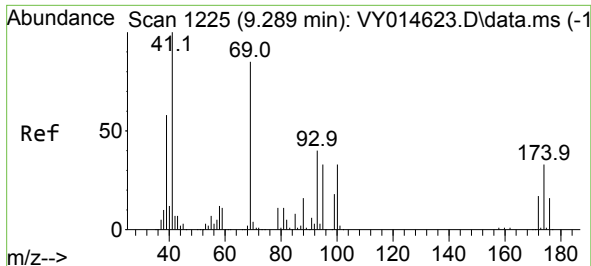
Tgt Ion: 43 Resp: 44958
Ion Ratio Lower Upper
43 100
61 0.0 21.1 31.7#
87 0.0 9.8 14.8#



#47
Bromodichloromethane
Concen: 1.403 ug/l
RT: 9.478 min Scan# 1256
Delta R.T. -0.018 min
Lab File: VY014657.D
Acq: 14 Jul 2023 19:02

Tgt Ion: 83 Resp: 5246
Ion Ratio Lower Upper
83 100
85 3.8 50.1 75.1#
127 0.0 7.1 10.7#

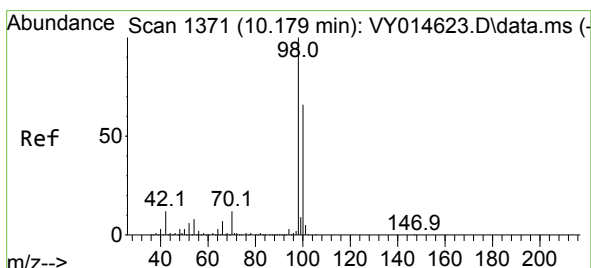
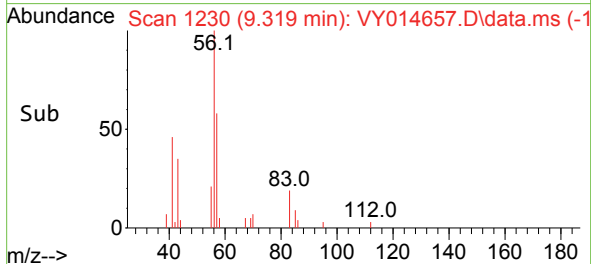
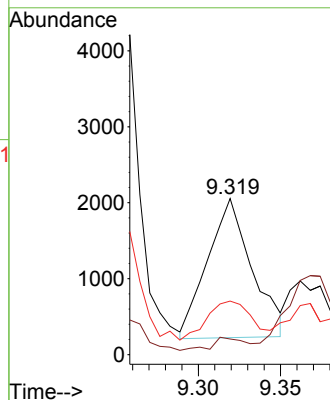
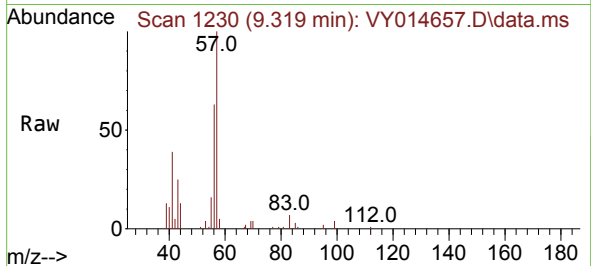




#48
Methyl methacrylate
Concen: 1.653 ug/l
RT: 9.319 min Scan# 1230
Delta R.T. 0.030 min
Lab File: VY014657.D
Acq: 14 Jul 2023 19:02

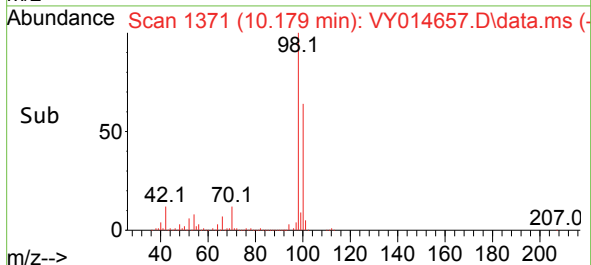
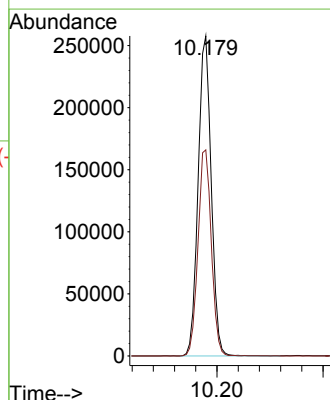
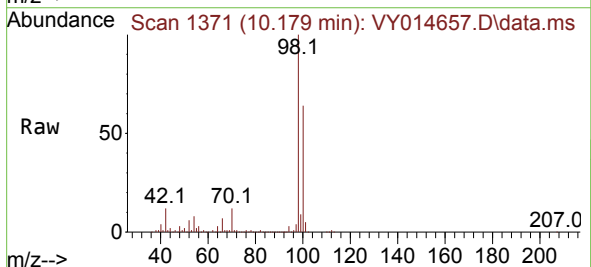
Instrument :
MSVOA_Y
ClientSampleId :
SB-12-(4-6)

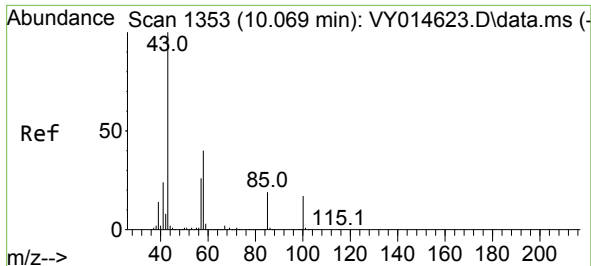
Tgt Ion: 41 Resp: 3436
Ion Ratio Lower Upper
41 100
69 0.0 64.5 96.7#
39 35.5 50.8 76.2#



#50
Toluene-d8
Concen: 50.669 ug/l
RT: 10.179 min Scan# 1371
Delta R.T. -0.000 min
Lab File: VY014657.D
Acq: 14 Jul 2023 19:02

Tgt Ion: 98 Resp: 439994
Ion Ratio Lower Upper
98 100
100 65.6 50.1 75.1

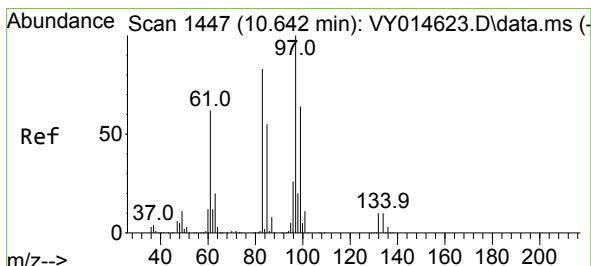
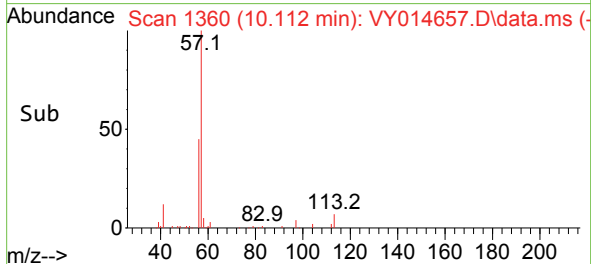
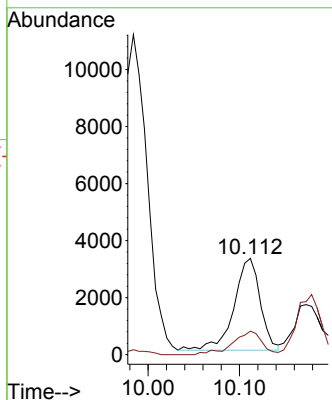
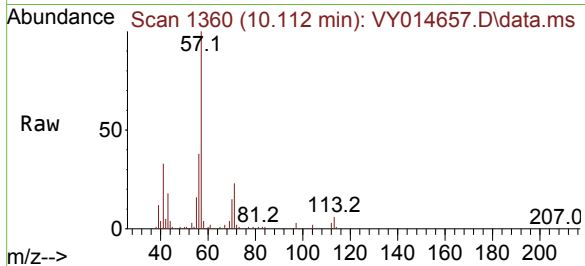




#51
4-Methyl-2-Pentanone
Concen: 2.660 ug/l
RT: 10.112 min Scan# 1360
Delta R.T. 0.043 min
Lab File: VY014657.D
Acq: 14 Jul 2023 19:02

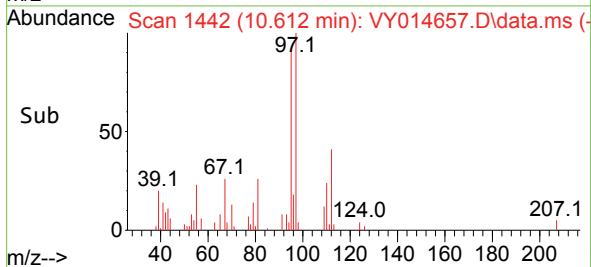
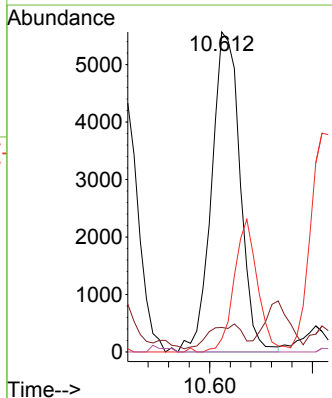
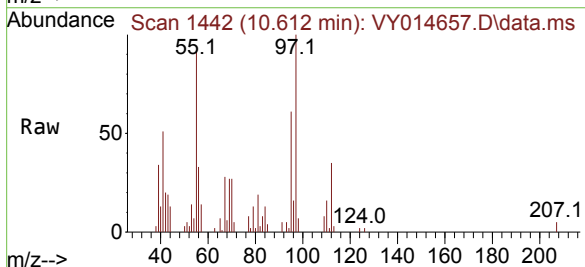
Instrument :
MSVOA_Y
ClientSampleId :
SB-12-(4-6)

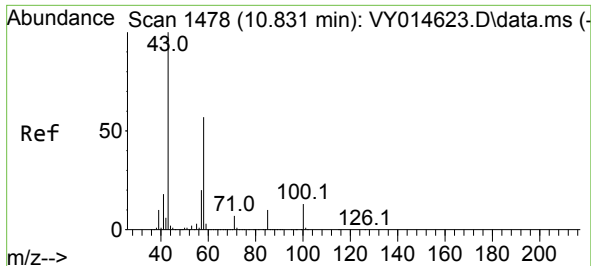
Tgt Ion: 43 Resp: 6452
Ion Ratio Lower Upper
43 100
58 28.4 29.0 43.6#



#55
1,1,2-Trichloroethane
Concen: 4.845 ug/l
RT: 10.612 min Scan# 1442
Delta R.T. -0.030 min
Lab File: VY014657.D
Acq: 14 Jul 2023 19:02

Tgt Ion: 97 Resp: 10710
Ion Ratio Lower Upper
97 100
83 5.8 72.0 108.0#
85 4.1 45.4 68.0#
99 0.0 50.3 75.5#

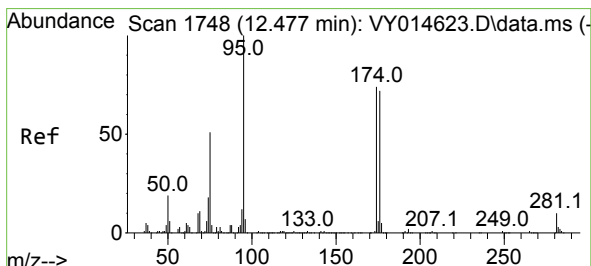
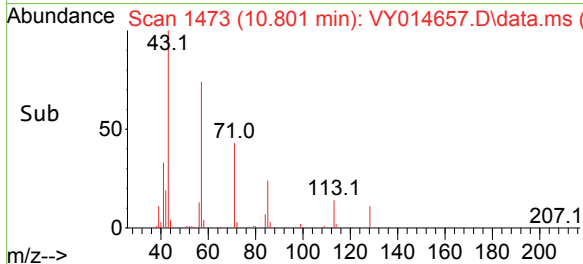
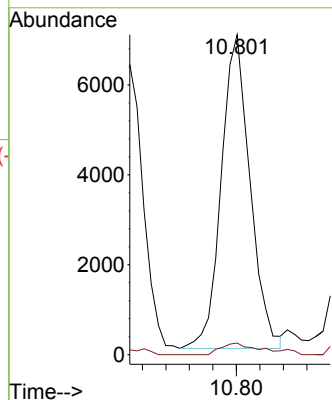
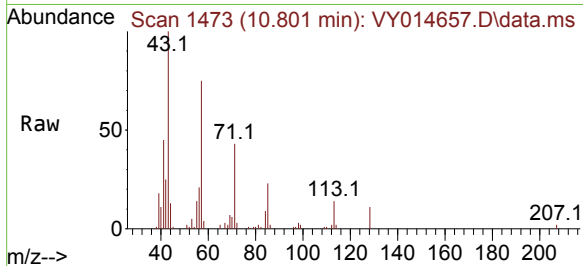




#59
2-Hexanone
Concen: 6.722 ug/l
RT: 10.801 min Scan# 1473
Delta R.T. -0.030 min
Lab File: VY014657.D
Acq: 14 Jul 2023 19:02

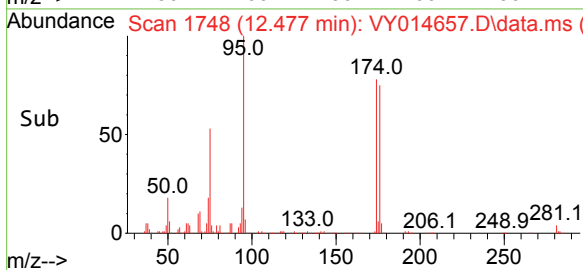
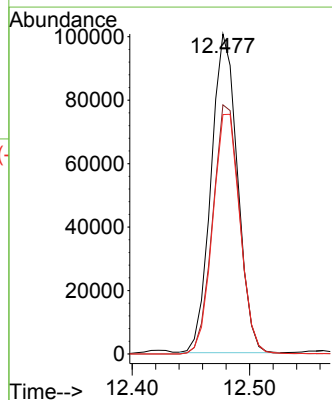
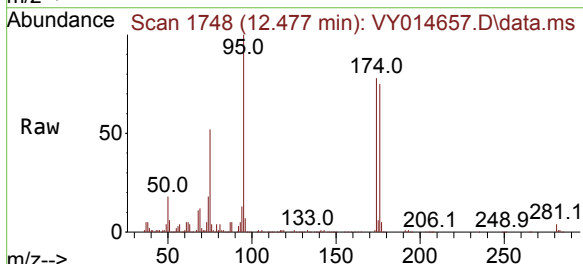
Instrument :
MSVOA_Y
ClientSampleId :
SB-12-(4-6)

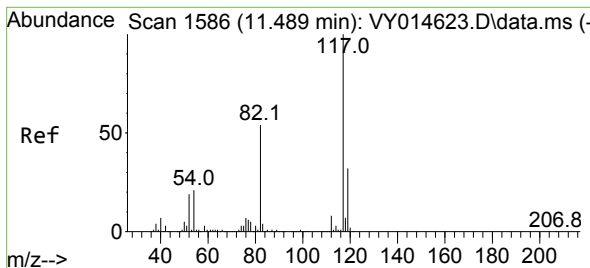
Tgt Ion: 43 Resp: 11891
Ion Ratio Lower Upper
43 100
58 5.3 25.1 75.3#



#62
4-Bromofluorobenzene
Concen: 47.187 ug/l
RT: 12.477 min Scan# 1748
Delta R.T. 0.000 min
Lab File: VY014657.D
Acq: 14 Jul 2023 19:02

Tgt Ion: 95 Resp: 157119
Ion Ratio Lower Upper
95 100
174 79.8 0.0 178.2
176 77.8 0.0 173.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.490 min Scan# 11

Delta R.T. 0.001 min

Lab File: VY014657.D

Acq: 14 Jul 2023 19:02

Instrument :

MSVOA_Y

ClientSampleId :

SB-12-(4-6)

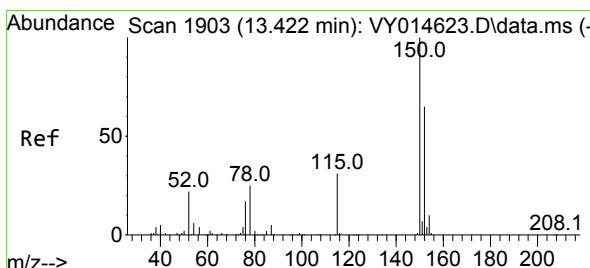
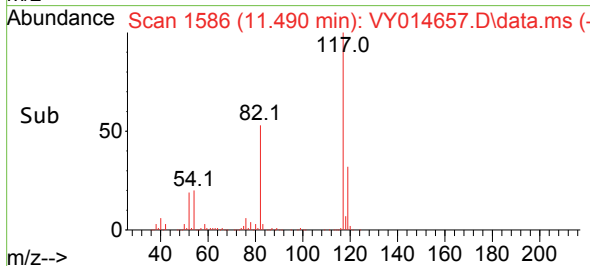
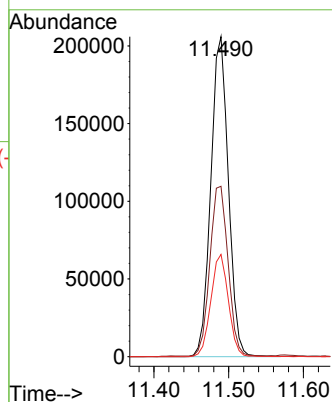
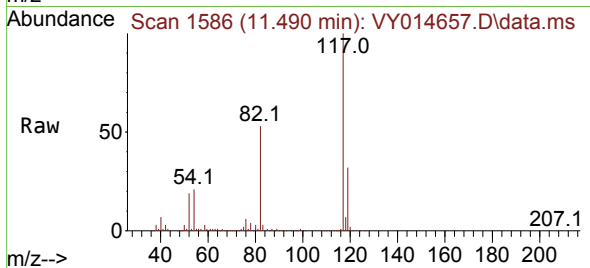
Tgt Ion:117 Resp: 335950

Ion Ratio Lower Upper

117 100

82 53.0 43.4 65.0

119 32.0 26.3 39.5



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.422 min Scan# 1903

Delta R.T. 0.000 min

Lab File: VY014657.D

Acq: 14 Jul 2023 19:02

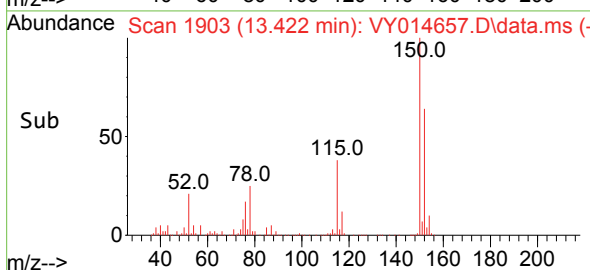
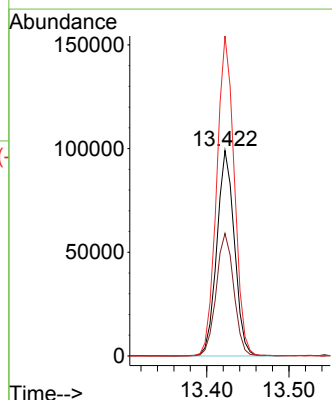
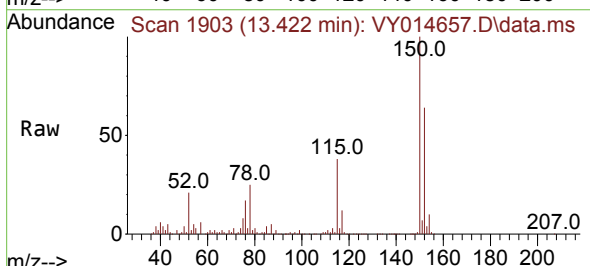
Tgt Ion:152 Resp: 147214

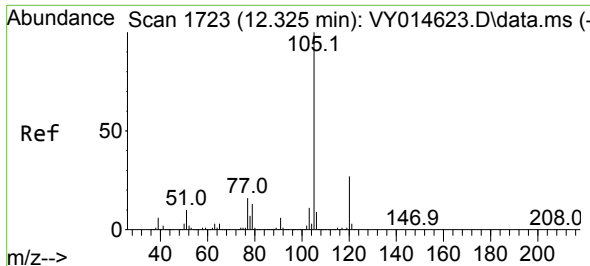
Ion Ratio Lower Upper

152 100

115 60.0 28.8 86.5

150 156.6 0.0 348.8

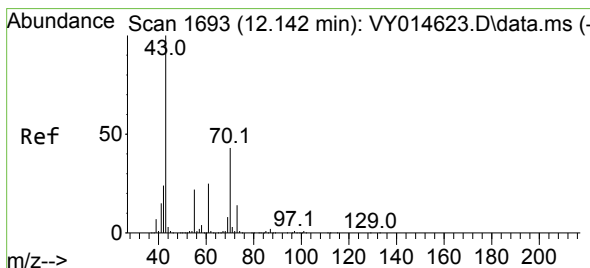
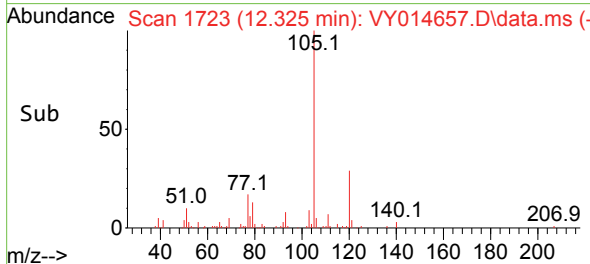
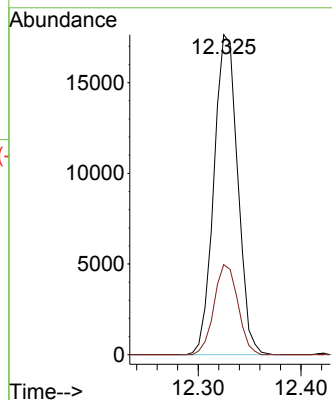
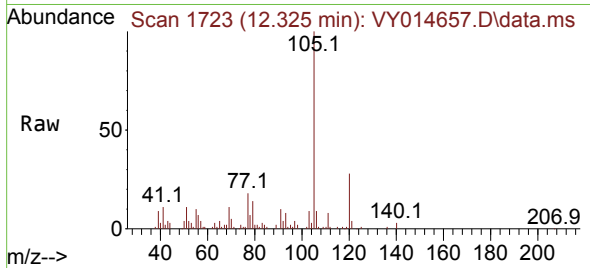




#73
Isopropylbenzene
Concen: 2.460 ug/l
RT: 12.325 min Scan# 1723
Delta R.T. -0.000 min
Lab File: VY014657.D
Acq: 14 Jul 2023 19:02

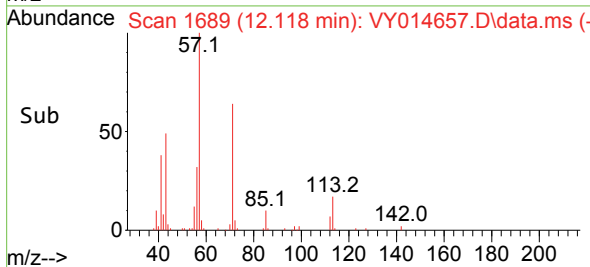
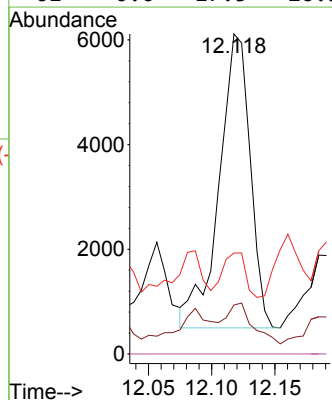
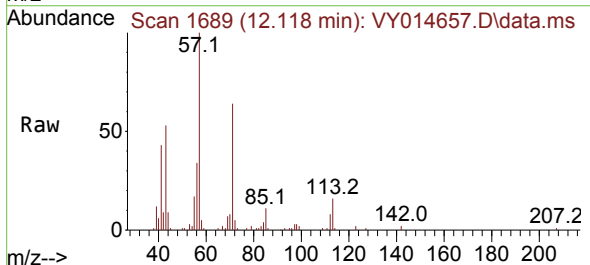
Instrument :
MSVOA_Y
ClientSampleId :
SB-12-(4-6)

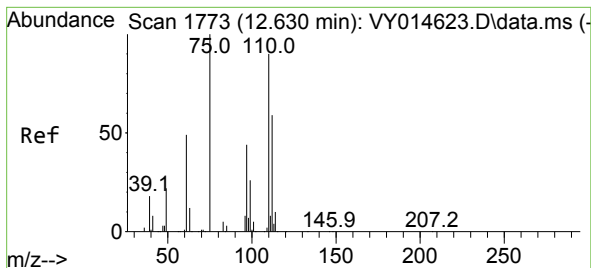
Tgt Ion:105 Resp: 28351
Ion Ratio Lower Upper
105 100
120 28.2 13.3 39.9



#74
N-ethyl acetate
Concen: 2.481 ug/l
RT: 12.118 min Scan# 1689
Delta R.T. -0.024 min
Lab File: VY014657.D
Acq: 14 Jul 2023 19:02

Tgt Ion: 43 Resp: 9578
Ion Ratio Lower Upper
43 100
70 11.4 29.7 44.5#
55 12.5 18.3 27.5#
61 0.0 17.5 26.3#





#76

1,2,3-Trichloropropane

Concen: 44.412 ug/l

RT: 12.477 min Scan# 11

Delta R.T. -0.153 min

Lab File: VY014657.D

Acq: 14 Jul 2023 19:02

Instrument :

MSVOA_Y

ClientSampleId :

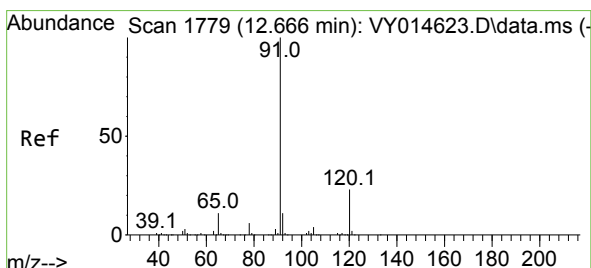
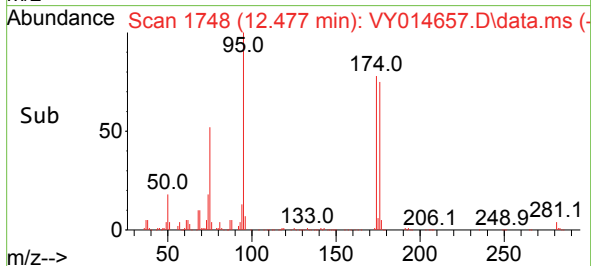
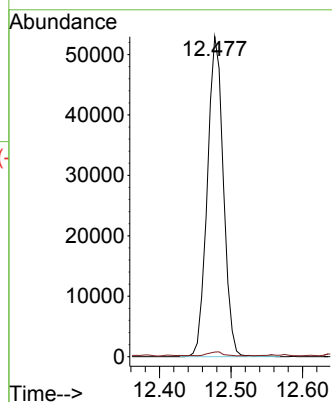
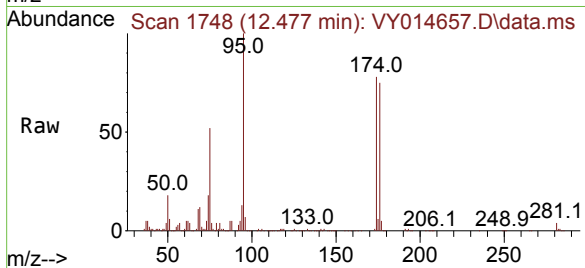
SB-12-(4-6)

Tgt Ion: 75 Resp: 82574

Ion Ratio Lower Upper

75 100

77 1.1 0.0 0.0#



#78

n-propylbenzene

Concen: 3.584 ug/l

RT: 12.666 min Scan# 1779

Delta R.T. 0.000 min

Lab File: VY014657.D

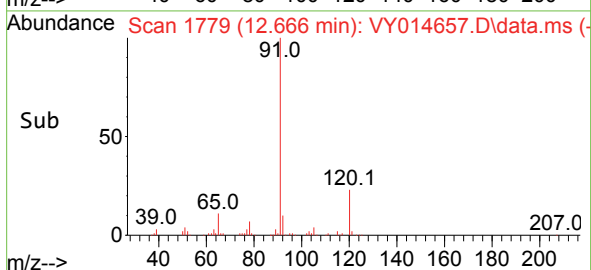
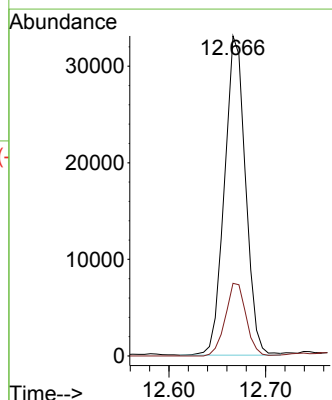
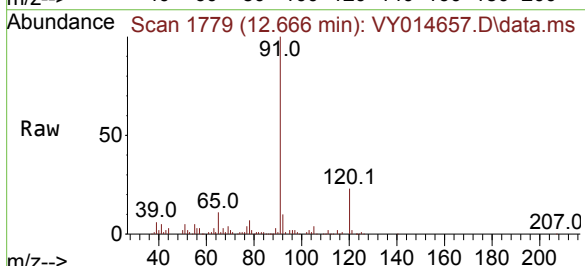
Acq: 14 Jul 2023 19:02

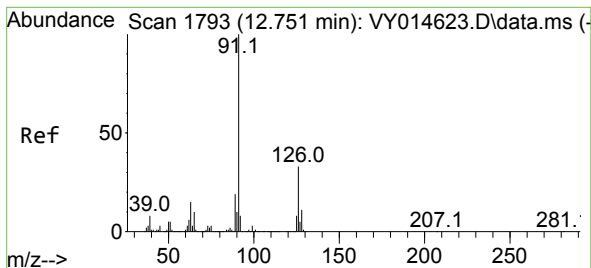
Tgt Ion: 91 Resp: 49779

Ion Ratio Lower Upper

91 100

120 22.5 11.5 34.4





#79

2-Chlorotoluene

Concen: 6.222 ug/l

RT: 12.666 min Scan# 11

Delta R.T. -0.085 min

Lab File: VY014657.D

Acq: 14 Jul 2023 19:02

Instrument :

MSVOA_Y

ClientSampleId :

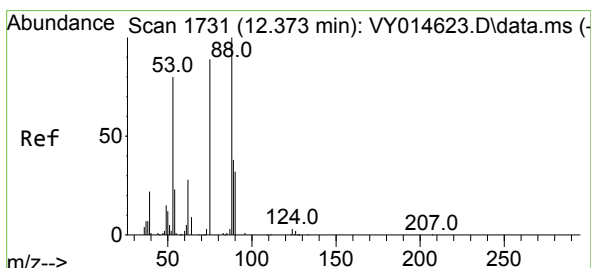
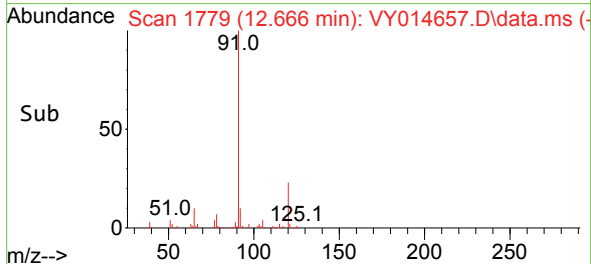
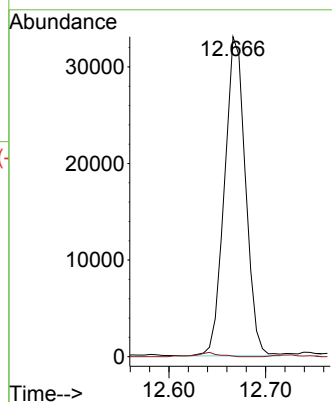
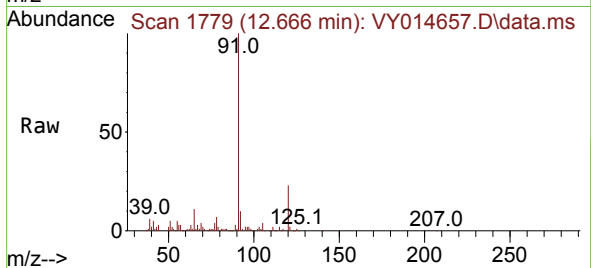
SB-12-(4-6)

Tgt Ion: 91 Resp: 49779

Ion Ratio Lower Upper

91 100

126 0.0 17.3 51.7#



#81

trans-1,4-Dichloro-2-butene

Concen: 85.990 ug/l

RT: 12.477 min Scan# 1748

Delta R.T. 0.104 min

Lab File: VY014657.D

Acq: 14 Jul 2023 19:02

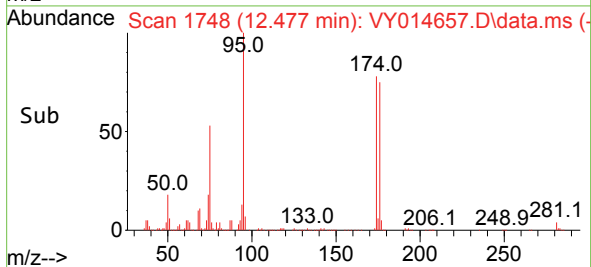
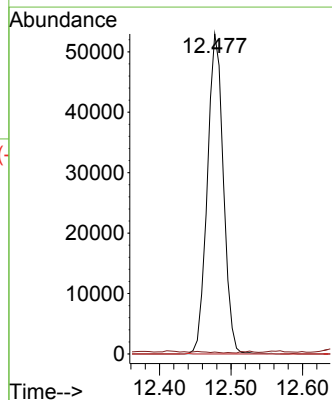
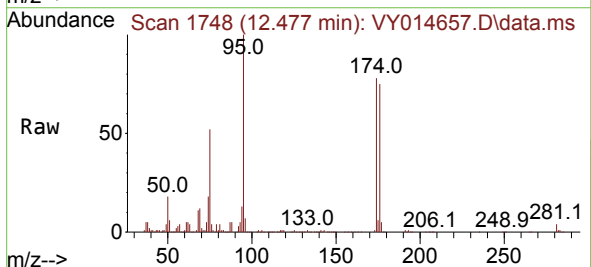
Tgt Ion: 75 Resp: 82574

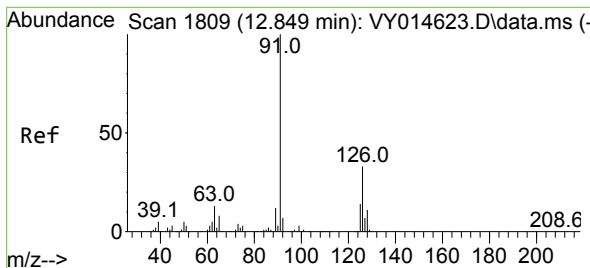
Ion Ratio Lower Upper

75 100

53 0.0 77.8 116.8#

89 0.0 37.4 56.0#

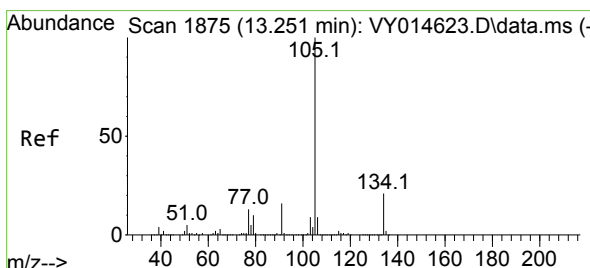
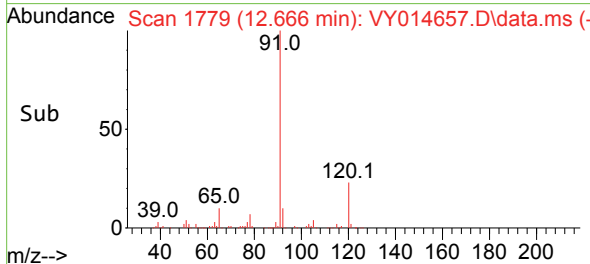
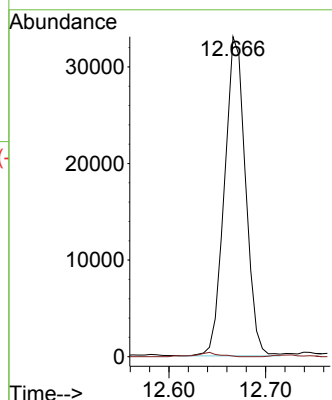
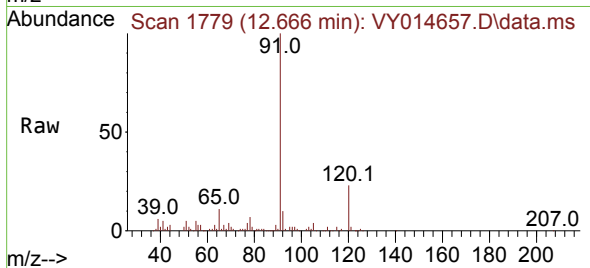




#82
4-Chlorotoluene
Concen: 6.041 ug/l
RT: 12.666 min Scan# 11
Delta R.T. -0.183 min
Lab File: VY014657.D
Acq: 14 Jul 2023 19:02

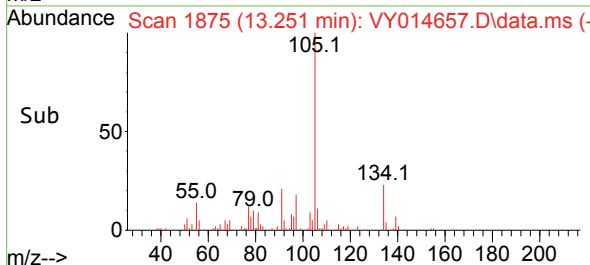
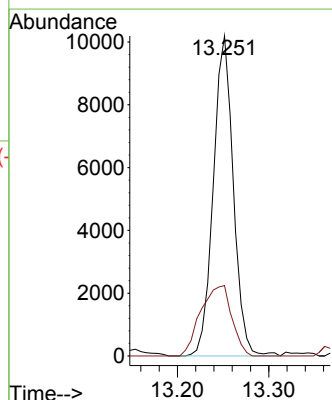
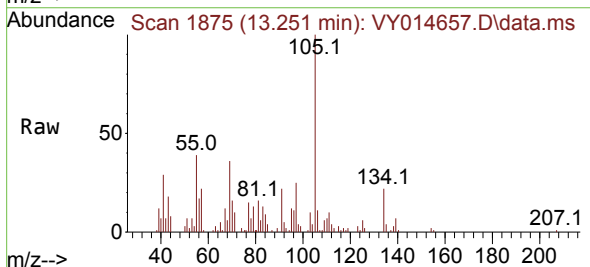
Instrument :
MSVOA_Y
ClientSampleId :
SB-12-(4-6)

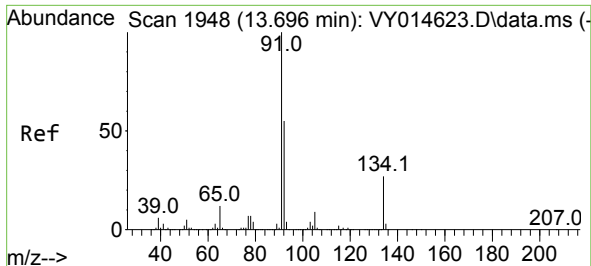
Tgt Ion: 91 Resp: 49779
Ion Ratio Lower Upper
91 100
126 0.0 17.2 51.6#



#85
sec-Butylbenzene
Concen: 1.237 ug/l
RT: 13.251 min Scan# 1875
Delta R.T. 0.000 min
Lab File: VY014657.D
Acq: 14 Jul 2023 19:02

Tgt Ion:105 Resp: 15490
Ion Ratio Lower Upper
105 100
134 34.1 10.2 30.6#





#89

n-Butylbenzene

Concen: 1.857 ug/l

RT: 13.690 min Scan# 1948

Delta R.T. -0.006 min

Lab File: VY014657.D

Acq: 14 Jul 2023 19:02

Instrument :

MSVOA_Y

ClientSampleId :

SB-12-(4-6)

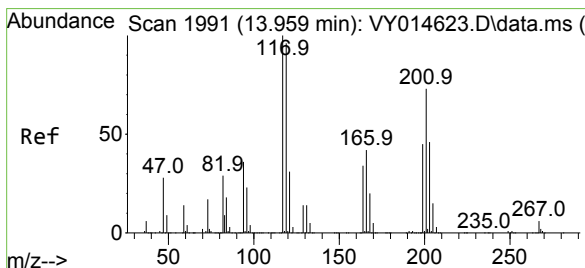
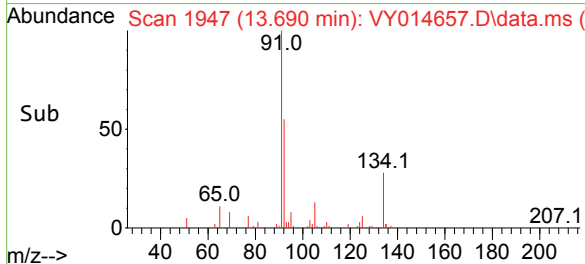
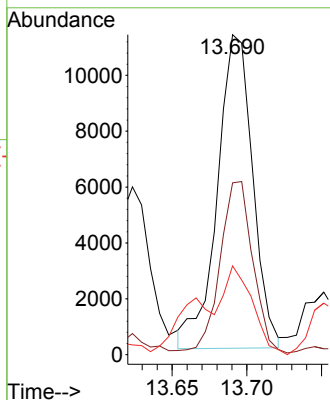
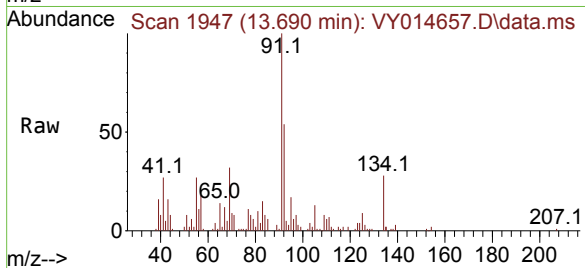
Tgt Ion: 91 Resp: 18483

Ion Ratio Lower Upper

91 100

92 52.0 25.4 76.0

134 23.2 12.6 37.6



#90

Hexachloroethane

Concen: 7.393 ug/l

RT: 14.032 min Scan# 2003

Delta R.T. 0.073 min

Lab File: VY014657.D

Acq: 14 Jul 2023 19:02

Tgt Ion: 117 Resp: 15531

Ion Ratio Lower Upper

117 100

201 0.0 41.6 124.8#

