

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110222\
 Data File : VY011255.D
 Acq On : 02 Nov 2022 12:25
 Operator : KP/MD
 Sample : N5337-03
 Misc : 5.06g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 SB-02-11.5-12.0

Quant Time: Nov 03 05:13:54 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y110122S.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 01 11:56:18 2022
 Response via : Initial Calibration

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

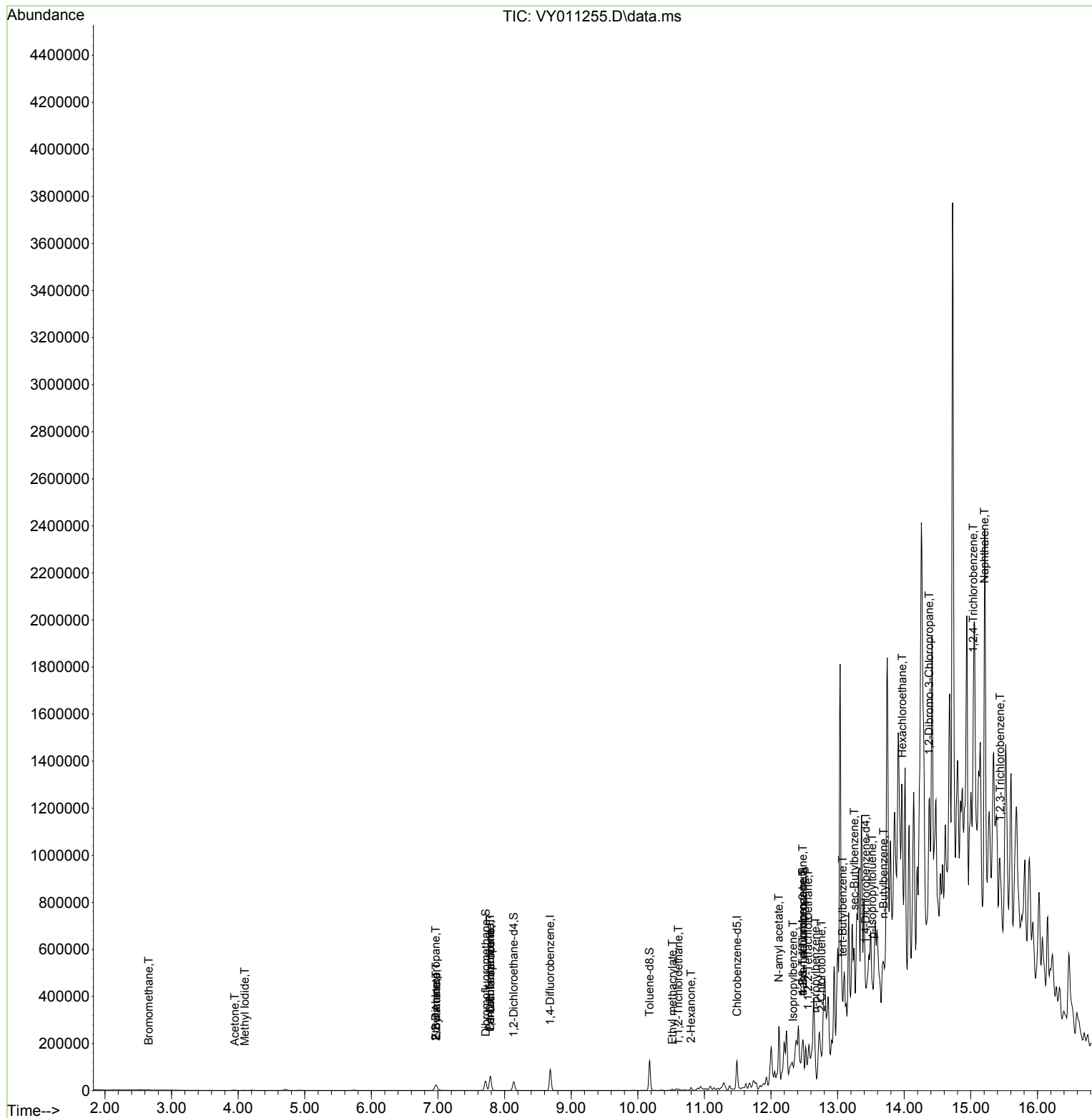
Internal Standards						
1) Pentafluorobenzene	7.783	168	47586	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.685	114	78734	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.489	117	67551	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.422	152	35746	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.136	65	28571	56.139	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 112.280%			
35) Dibromofluoromethane	7.716	113	29966	59.237	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 118.480%			
50) Toluene-d8	10.179	98	85825	43.698	ug/l	0.00
Spiked Amount 50.000	Range 49 - 140		Recovery = 87.400%			
62) 4-Bromofluorobenzene	12.477	95	36685	53.803	ug/l	0.00
Spiked Amount 50.000	Range 25 - 144		Recovery = 107.600%			
Target Compounds					Qvalue	
5) Bromomethane	2.656	94	504	1.282	ug/l	88
10) Methyl Iodide	4.100	142	1018	1.511	ug/l #	91
11) Tert butyl alcohol	4.917	59	1427	Below Cal	#	77
16) Acetone	3.948	43	2876	18.721	ug/l #	79
25) 2-Butanone	6.972	43	1489	6.888	ug/l #	88
26) 2,2-Dichloropropane	6.966	77	1744	1.874	ug/l #	55
36) 1,1-Dichloropropene	7.789	75	3514	4.254	ug/l #	50
37) Ethyl Acetate	6.972	43	1489	3.344	ug/l #	1
38) Carbon Tetrachloride	7.783	117	4552	5.311	ug/l #	17
55) 1,1,2-Trichloroethane	10.611	97	1445	2.973	ug/l #	20
56) Ethyl methacrylate	10.520	69	701	1.092	ug/l #	73
59) 2-Hexanone	10.800	43	3988	13.094	ug/l #	32
73) Isopropylbenzene	12.331	105	8880	3.323	ug/l	93
74) N-amyl acetate	12.117	43	47771	71.206	ug/l #	76
75) 1,1,2,2-Tetrachloroethane	12.556	83	8388	15.167	ug/l #	36
76) 1,2,3-Trichloropropane	12.477	75	14843	34.108	ug/l #	100
78) n-propylbenzene	12.666	91	23029	7.042	ug/l	98
79) 2-Chlorotoluene	12.757	91	2040	1.089	ug/l #	41
81) trans-1,4-Dichloro-2-b...	12.477	75	14843	72.995	ug/l #	15
83) tert-Butylbenzene	13.074	119	5185	2.661	ug/l	94
85) sec-Butylbenzene	13.251	105	56833	19.671	ug/l #	71
86) p-Isopropyltoluene	13.520	119	20159	8.371	ug/l #	74
89) n-Butylbenzene	13.690	91	47886	21.294	ug/l #	70
90) Hexachloroethane	13.971	117	5026	10.436	ug/l #	6
92) 1,2-Dibromo-3-Chloropr...	14.373	75	1560	16.466	ug/l #	16
93) 1,2,4-Trichlorobenzene	15.038	180	4490	6.598	ug/l #	1
95) Naphthalene	15.202	128	17260	13.955	ug/l #	1
96) 1,2,3-Trichlorobenzene	15.440	180	3744	6.260	ug/l #	1

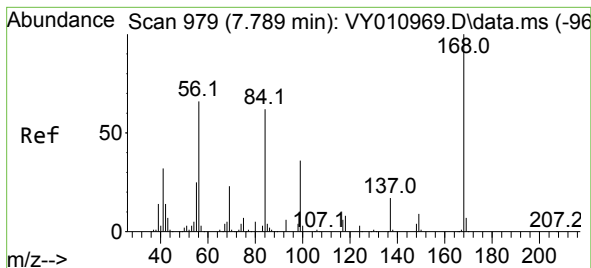
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
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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: VY011255.D

Acq: 02 Nov 2022 12:25

Instrument :

MSVOA_Y

ClientSampleId :

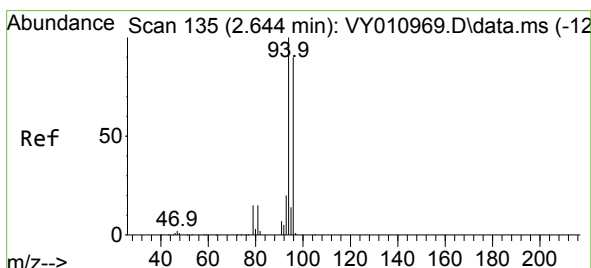
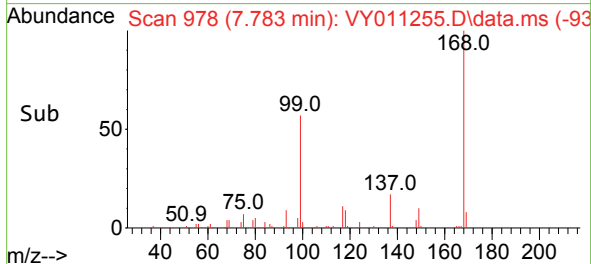
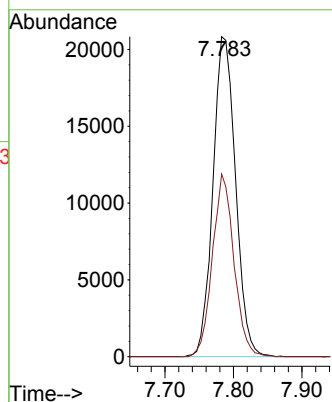
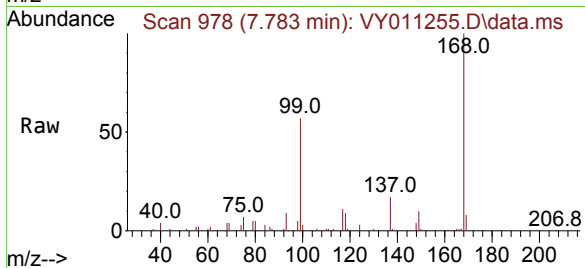
SB-02-11.5-12.0

Tgt Ion:168 Resp: 47586

Ion Ratio Lower Upper

168 100

99 57.0 46.9 70.3



#5

Bromomethane

Concen: 1.282 ug/l

RT: 2.656 min Scan# 137

Delta R.T. 0.012 min

Lab File: VY011255.D

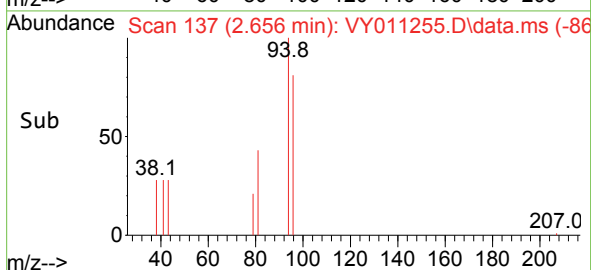
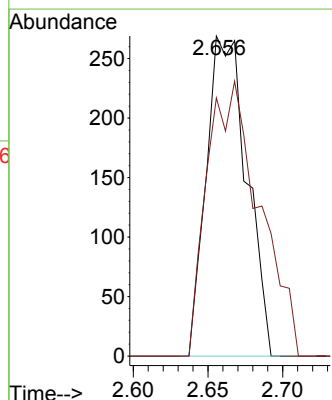
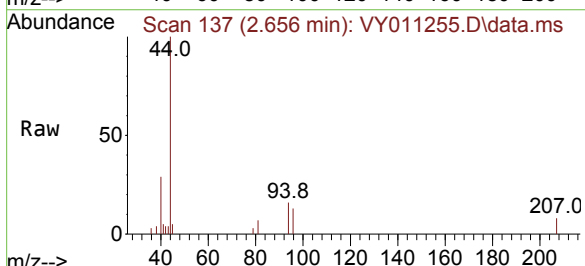
Acq: 02 Nov 2022 12:25

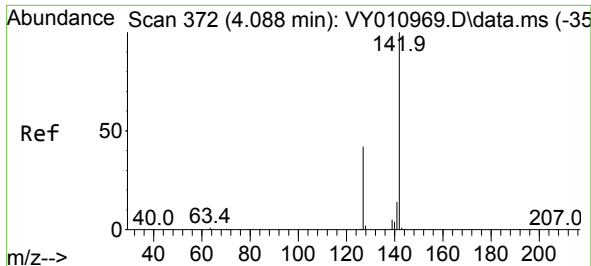
Tgt Ion: 94 Resp: 504

Ion Ratio Lower Upper

94 100

96 80.7 73.5 110.3

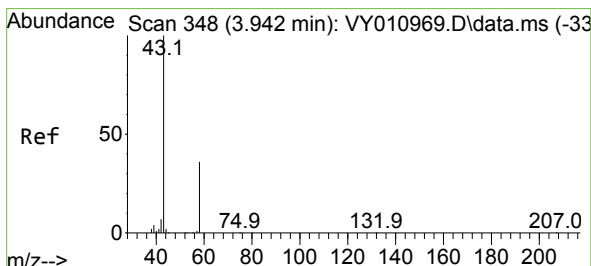
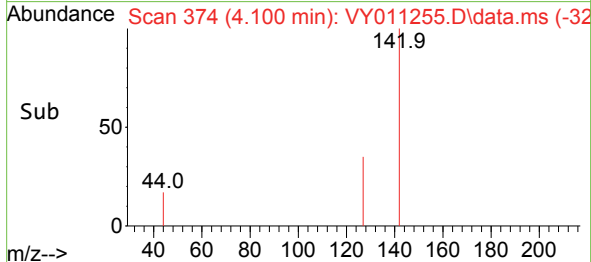
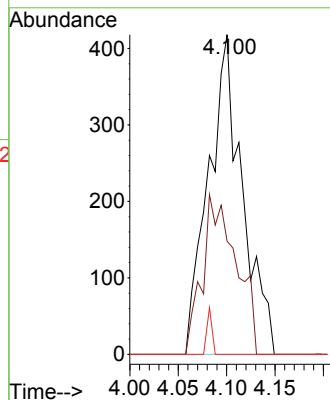
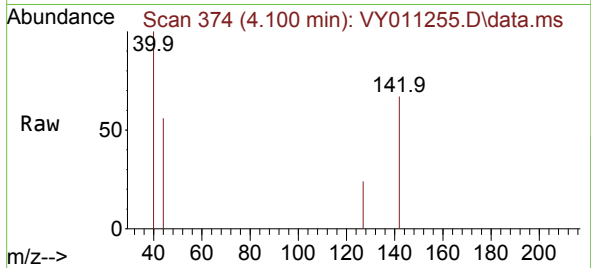




#10
Methyl Iodide
Concen: 1.511 ug/l
RT: 4.100 min Scan# 31
Delta R.T. 0.012 min
Lab File: VY011255.D
Acq: 02 Nov 2022 12:25

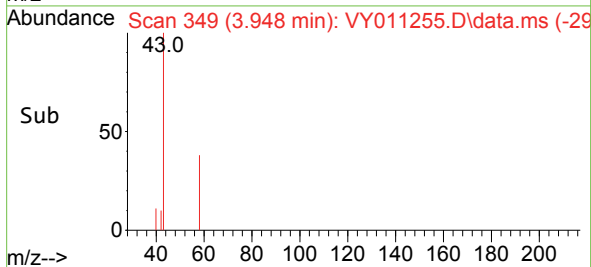
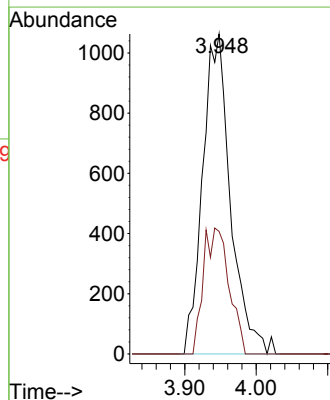
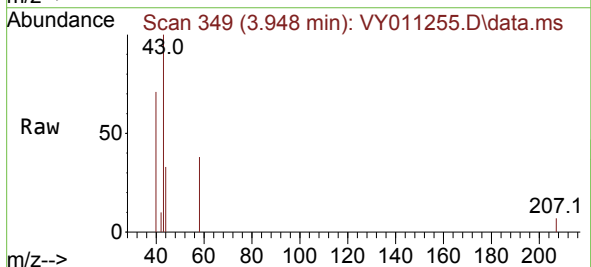
Instrument :
MSVOA_Y
ClientSampleId :
SB-02-11.5-12.0

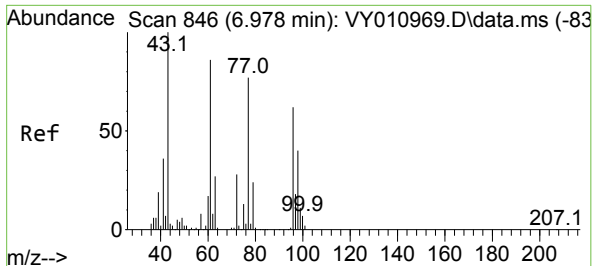
Tgt Ion:142 Resp: 1018
Ion Ratio Lower Upper
142 100
127 49.8 41.5 62.3
141 2.2 11.9 17.9#



#16
Acetone
Concen: 18.721 ug/l
RT: 3.948 min Scan# 349
Delta R.T. 0.006 min
Lab File: VY011255.D
Acq: 02 Nov 2022 12:25

Tgt Ion: 43 Resp: 2876
Ion Ratio Lower Upper
43 100
58 38.3 22.0 33.0#





#25

2-Butanone

Concen: 6.888 ug/l

RT: 6.972 min Scan# 845

Delta R.T. -0.006 min

Lab File: VY011255.D

Acq: 02 Nov 2022 12:25

Instrument :

MSVOA_Y

ClientSampleId :

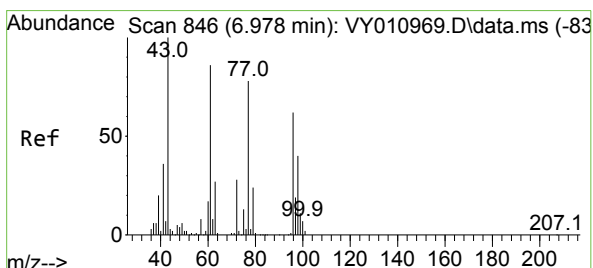
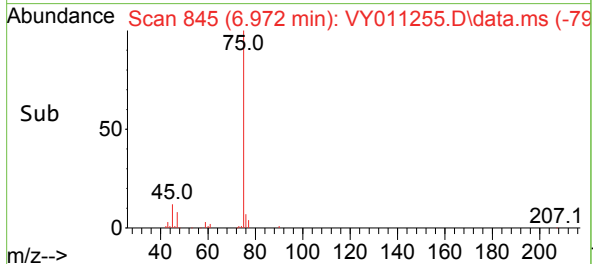
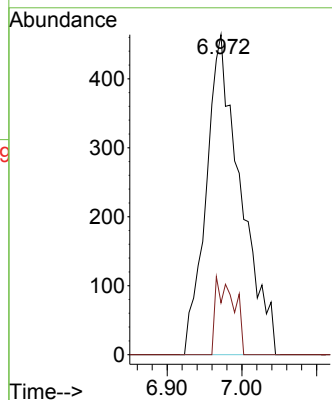
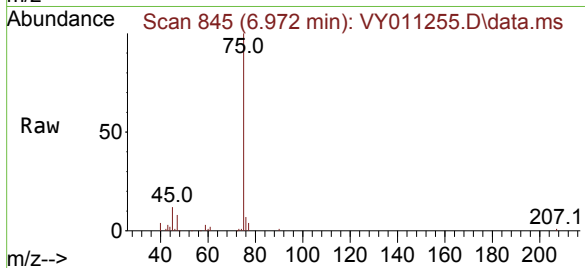
SB-02-11.5-12.0

Tgt Ion: 43 Resp: 1489

Ion Ratio Lower Upper

43 100

72 16.2 17.7 26.5#



#26

2,2-Dichloropropane

Concen: 1.874 ug/l

RT: 6.966 min Scan# 844

Delta R.T. -0.012 min

Lab File: VY011255.D

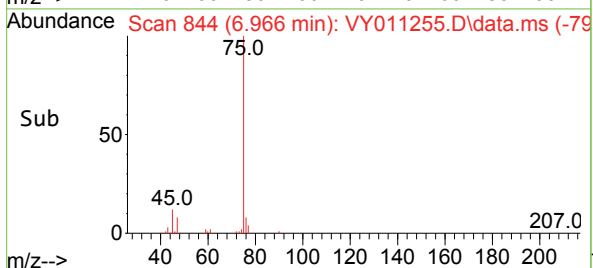
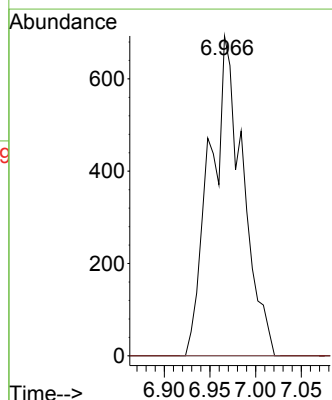
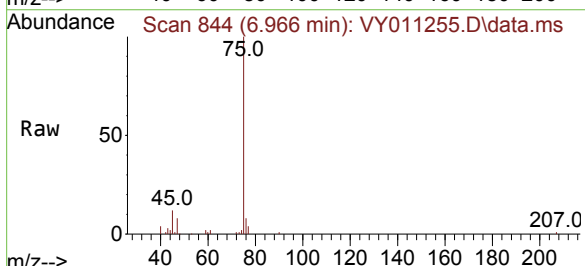
Acq: 02 Nov 2022 12:25

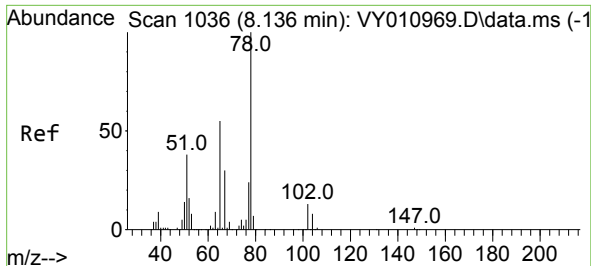
Tgt Ion: 77 Resp: 1744

Ion Ratio Lower Upper

77 100

97 0.0 10.4 31.4#

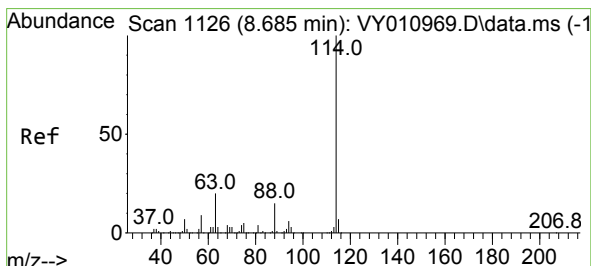
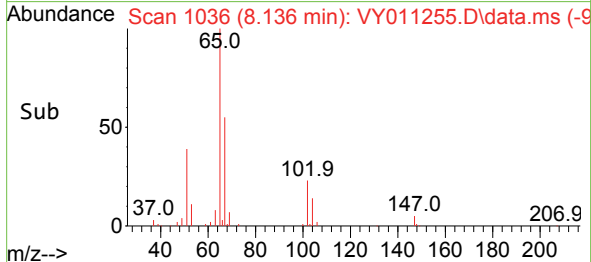
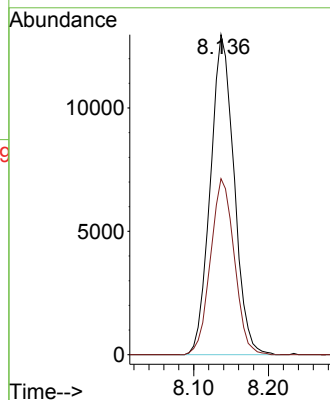
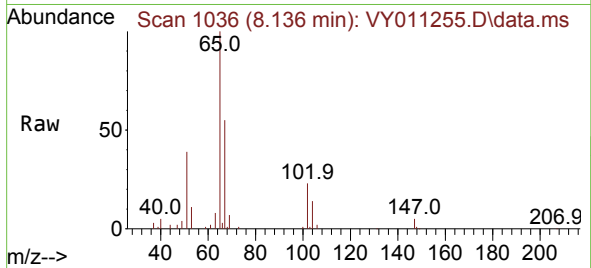




#33
 1,2-Dichloroethane-d4
 Concen: 56.139 ug/l
 RT: 8.136 min Scan# 1036
 Delta R.T. 0.000 min
 Lab File: VY011255.D
 Acq: 02 Nov 2022 12:25

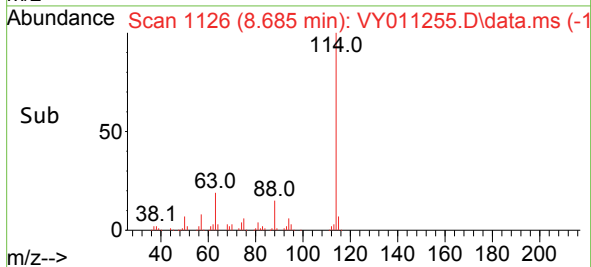
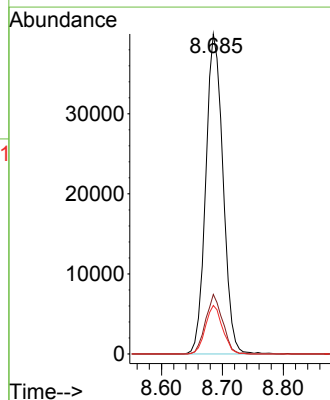
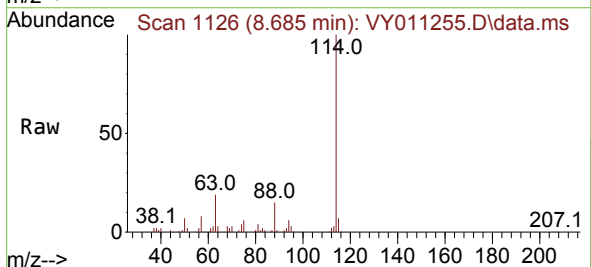
Instrument :
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 SB-02-11.5-12.0

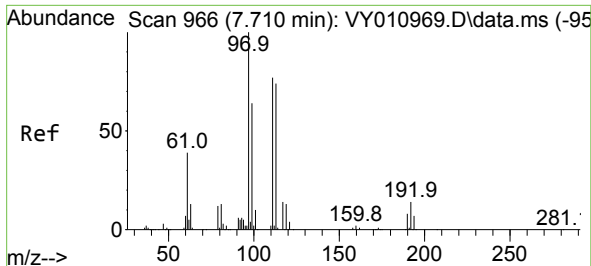
Tgt Ion: 65 Resp: 28571
 Ion Ratio Lower Upper
 65 100
 67 55.2 0.0 99.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.685 min Scan# 1126
 Delta R.T. 0.000 min
 Lab File: VY011255.D
 Acq: 02 Nov 2022 12:25

Tgt Ion: 114 Resp: 78734
 Ion Ratio Lower Upper
 114 100
 63 18.6 0.0 43.2
 88 15.2 0.0 31.8

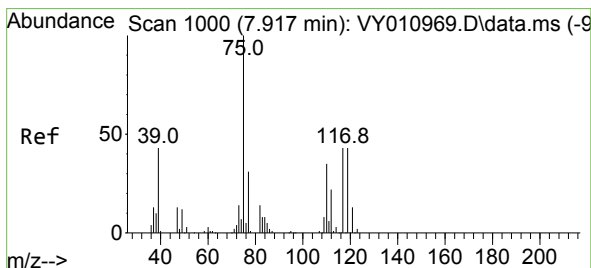
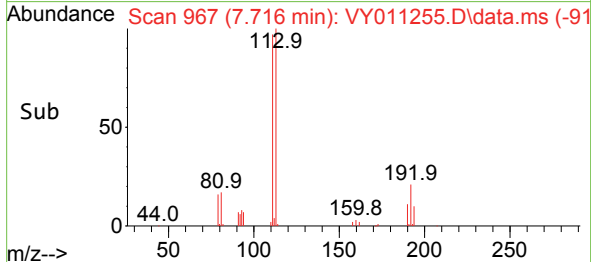
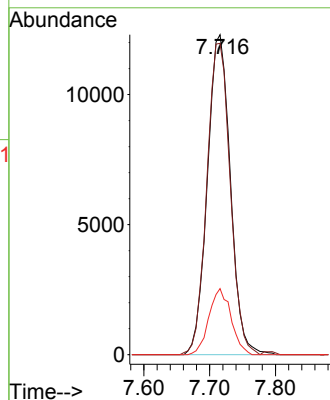
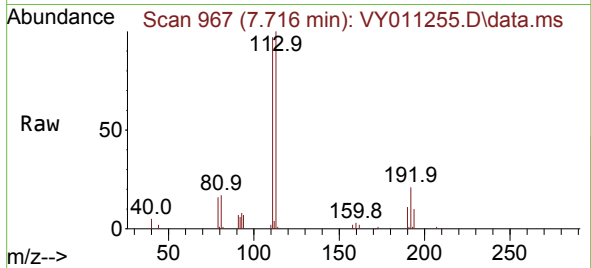




#35
Dibromofluoromethane
Concen: 59.237 ug/l
RT: 7.716 min Scan# 911
Delta R.T. 0.006 min
Lab File: VY011255.D
Acq: 02 Nov 2022 12:25

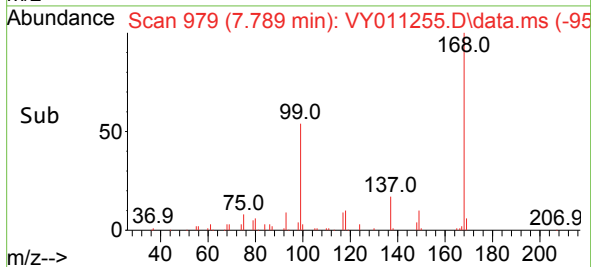
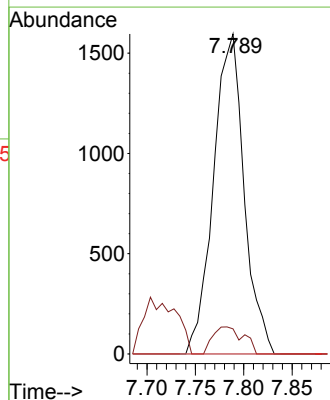
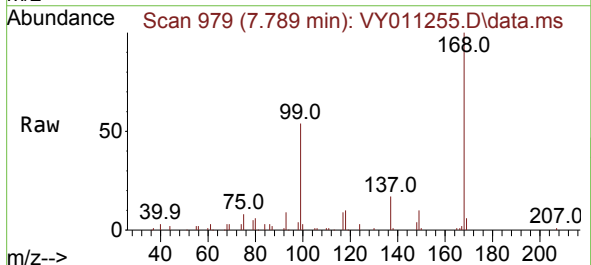
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ClientSampleId :
SB-02-11.5-12.0

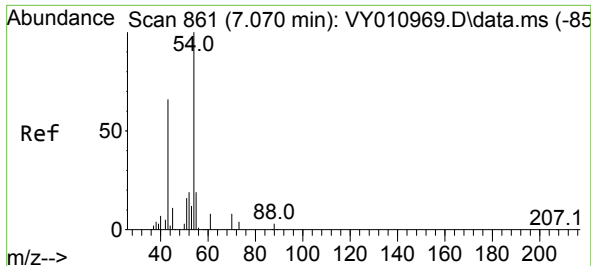
Tgt Ion:113 Resp: 29966
Ion Ratio Lower Upper
113 100
111 98.6 82.6 124.0
192 19.9 17.6 26.4



#36
1,1-Dichloropropene
Concen: 4.254 ug/l
RT: 7.789 min Scan# 979
Delta R.T. -0.128 min
Lab File: VY011255.D
Acq: 02 Nov 2022 12:25

Tgt Ion: 75 Resp: 3514
Ion Ratio Lower Upper
75 100
110 8.5 17.1 51.2#
77 0.0 24.4 36.6#





#37

Ethyl Acetate

Concen: 3.344 ug/l

RT: 6.972 min Scan# 84

Delta R.T. -0.098 min

Lab File: VY011255.D

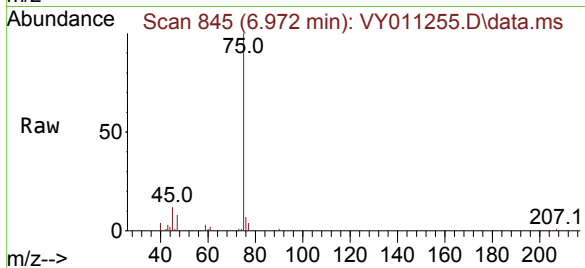
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Instrument :

MSVOA_Y

ClientSampleId :

SB-02-11.5-12.0



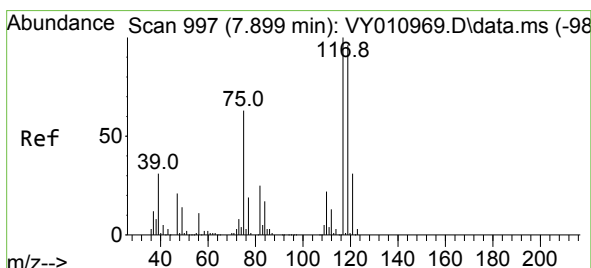
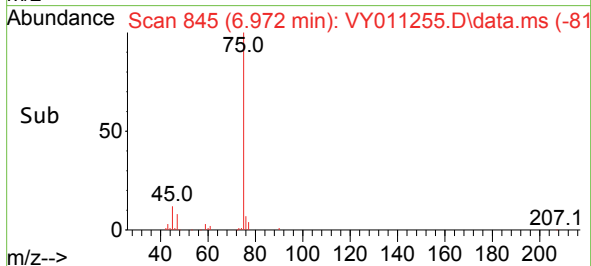
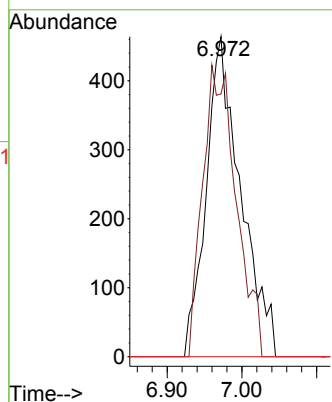
Tgt Ion: 43 Resp: 1489

Ion Ratio Lower Upper

43 100

61 88.7 9.7 14.5#

70 0.0 7.1 10.7#



#38

Carbon Tetrachloride

Concen: 5.311 ug/l

RT: 7.783 min Scan# 978

Delta R.T. -0.116 min

Lab File: VY011255.D

Acq: 02 Nov 2022 12:25

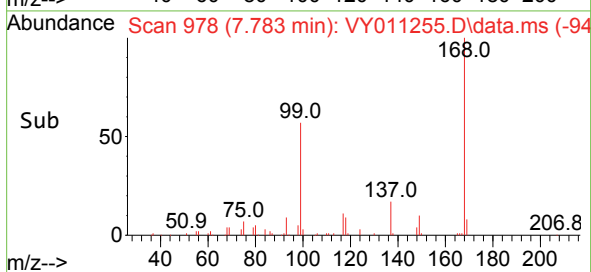
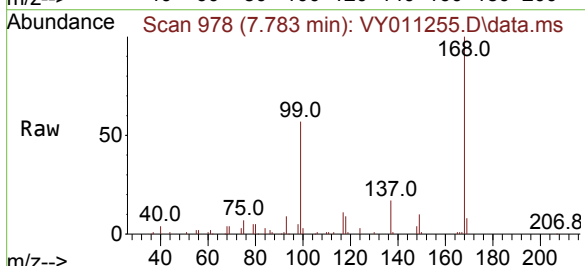
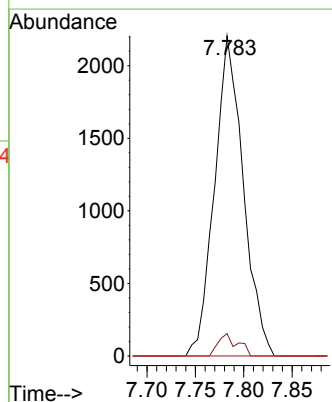
Tgt Ion: 117 Resp: 4552

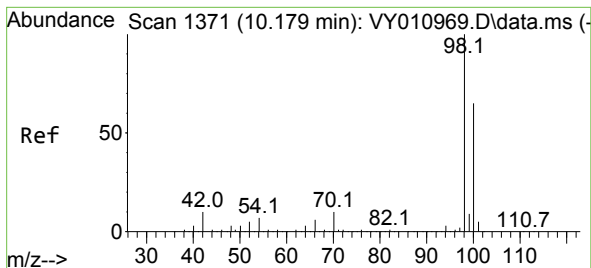
Ion Ratio Lower Upper

117 100

119 7.0 77.9 116.9#

121 0.0 24.8 37.2#





#50

Toluene-d8

Concen: 43.698 ug/l

RT: 10.179 min Scan# 11

Delta R.T. -0.000 min

Lab File: VY011255.D

Acq: 02 Nov 2022 12:25

Instrument :

MSVOA_Y

ClientSampleId :

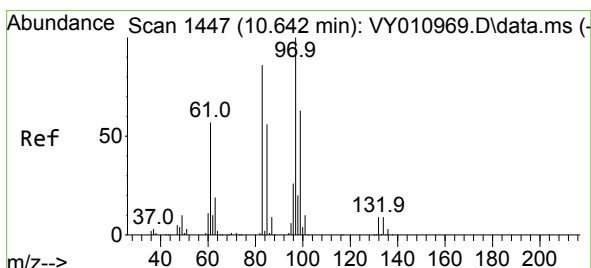
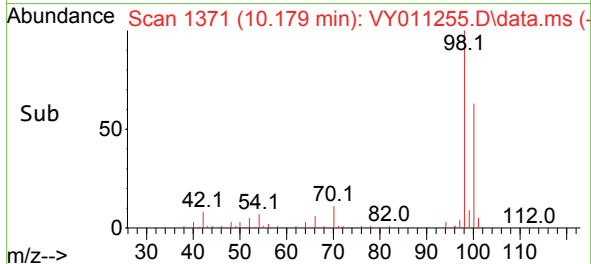
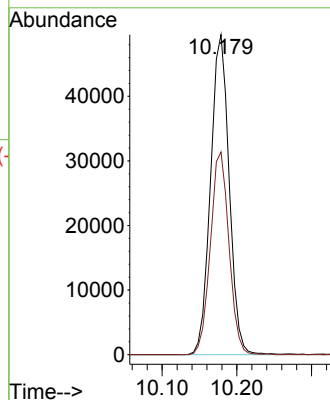
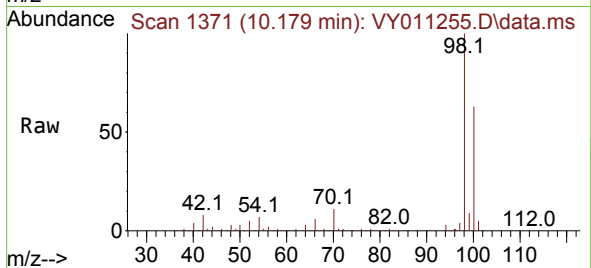
SB-02-11.5-12.0

Tgt Ion: 98 Resp: 85825

Ion Ratio Lower Upper

98 100

100 63.3 50.2 75.2



#55

1,1,2-Trichloroethane

Concen: 2.973 ug/l

RT: 10.611 min Scan# 1442

Delta R.T. -0.030 min

Lab File: VY011255.D

Acq: 02 Nov 2022 12:25

Tgt Ion: 97 Resp: 1445

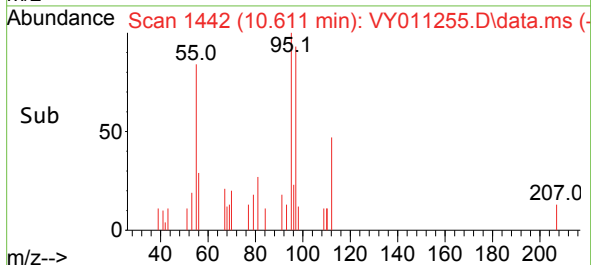
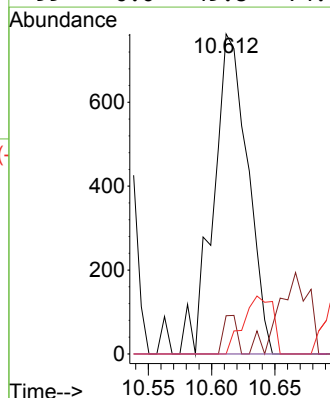
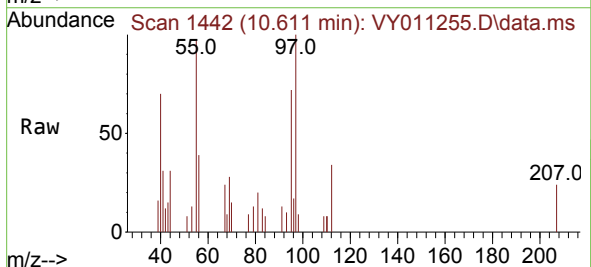
Ion Ratio Lower Upper

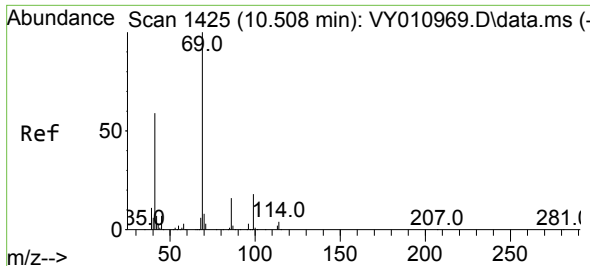
97 100

83 11.9 69.8 104.8#

85 0.0 44.3 66.5#

99 0.0 49.8 74.6#

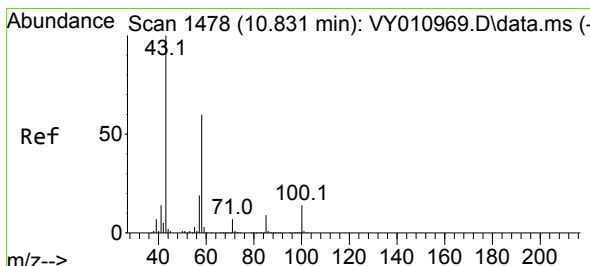
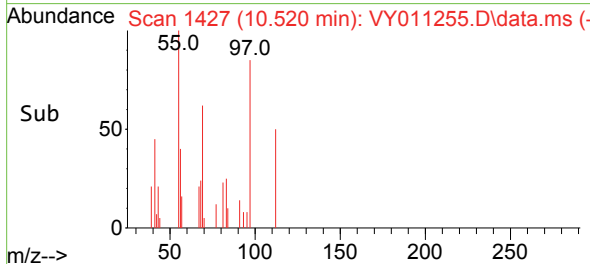
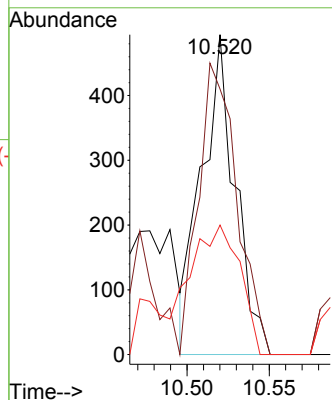
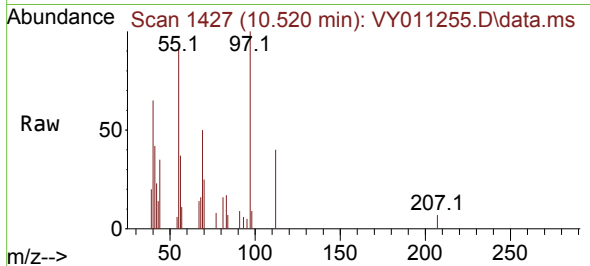




#56
Ethyl methacrylate
Concen: 1.092 ug/l
RT: 10.520 min Scan# 1427
Delta R.T. 0.012 min
Lab File: VY011255.D
Acq: 02 Nov 2022 12:25

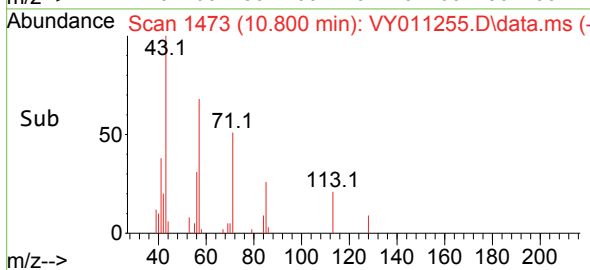
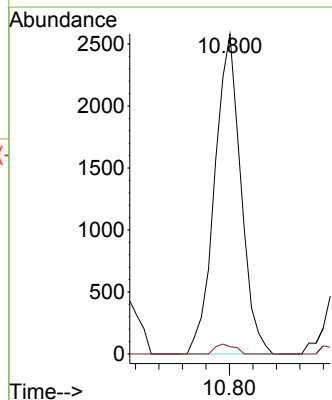
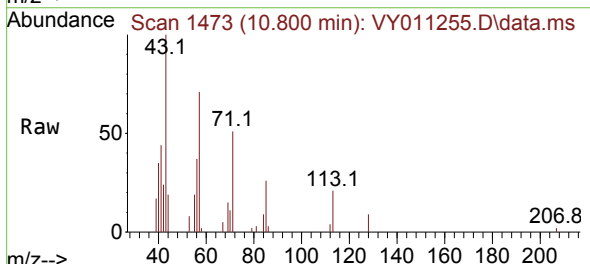
Instrument :
MSVOA_Y
ClientSampleId :
SB-02-11.5-12.0

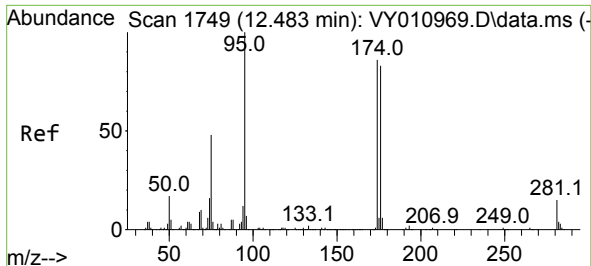
Tgt Ion: 69 Resp: 701
Ion Ratio Lower Upper
69 100
41 104.7 63.4 95.0#
39 59.9 35.8 53.8#



#59
2-Hexanone
Concen: 13.094 ug/l
RT: 10.800 min Scan# 1473
Delta R.T. -0.031 min
Lab File: VY011255.D
Acq: 02 Nov 2022 12:25

Tgt Ion: 43 Resp: 3988
Ion Ratio Lower Upper
43 100
58 2.3 24.4 73.4#

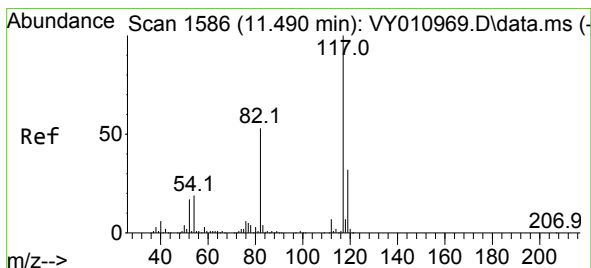
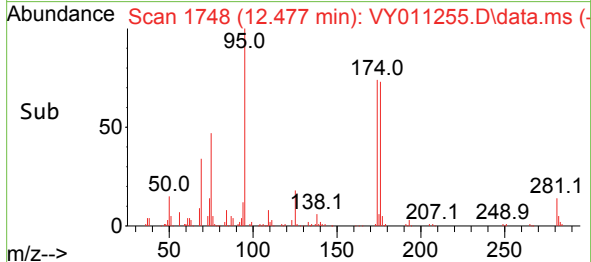
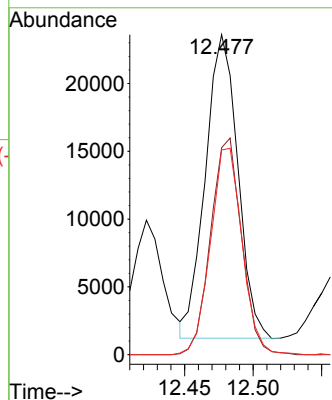
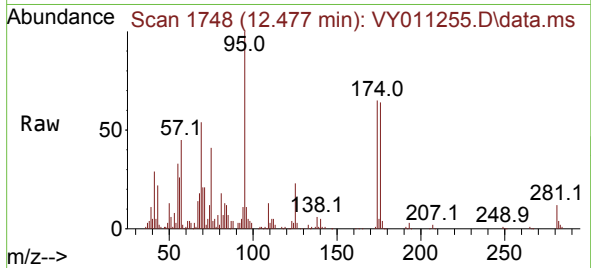




#62
4-Bromofluorobenzene
Concen: 53.803 ug/l
RT: 12.477 min Scan# 11
Delta R.T. -0.006 min
Lab File: VY011255.D
Acq: 02 Nov 2022 12:25

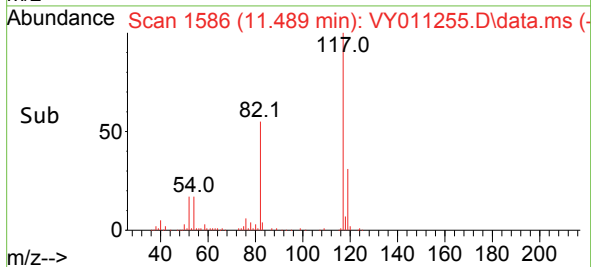
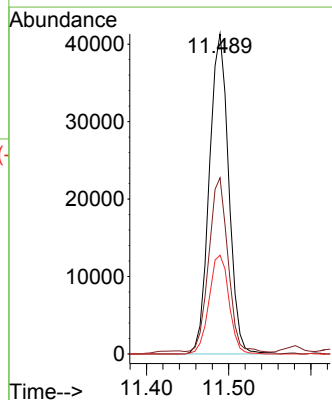
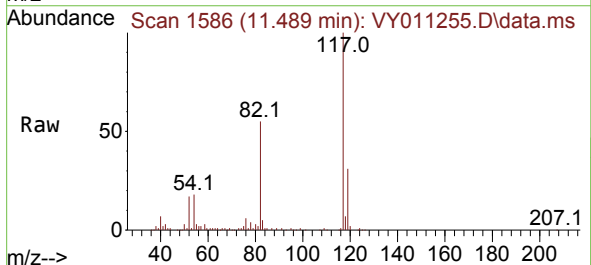
Instrument :
MSVOA_Y
ClientSampleId :
SB-02-11.5-12.0

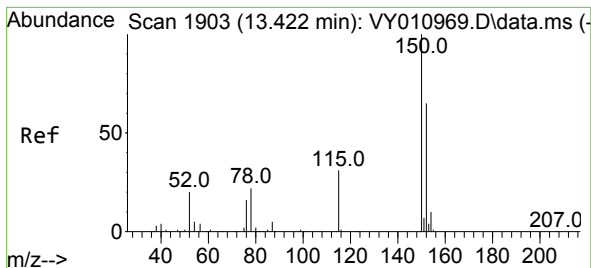
Tgt Ion: 95 Resp: 36685
Ion Ratio Lower Upper
95 100
174 68.4 0.0 177.0
176 66.9 0.0 175.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.489 min Scan# 1586
Delta R.T. -0.001 min
Lab File: VY011255.D
Acq: 02 Nov 2022 12:25

Tgt Ion: 117 Resp: 67551
Ion Ratio Lower Upper
117 100
82 54.1 43.0 64.4
119 30.8 25.4 38.0

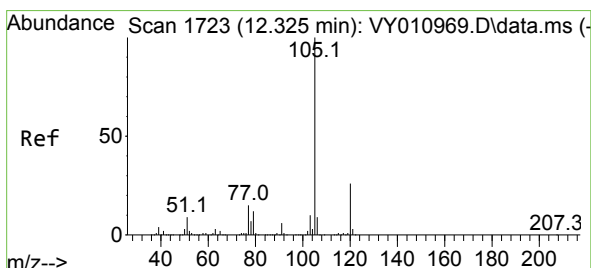
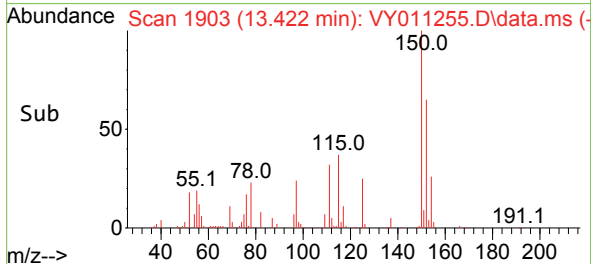
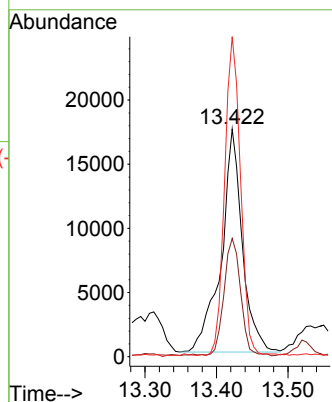
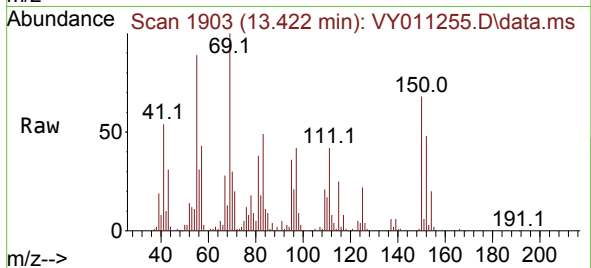




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.422 min Scan# 1903
Delta R.T. -0.000 min
Lab File: VY011255.D
Acq: 02 Nov 2022 12:25

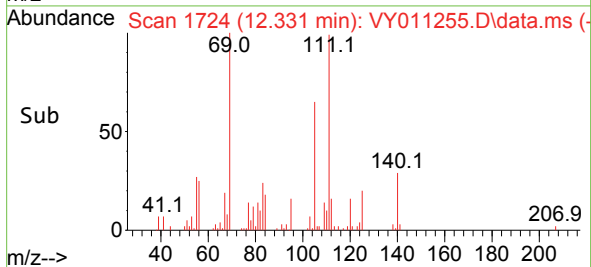
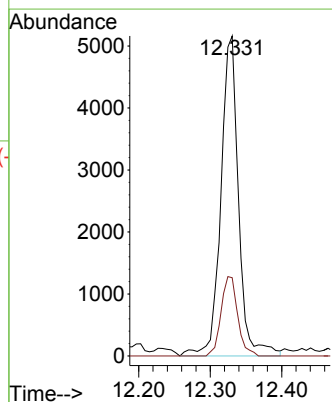
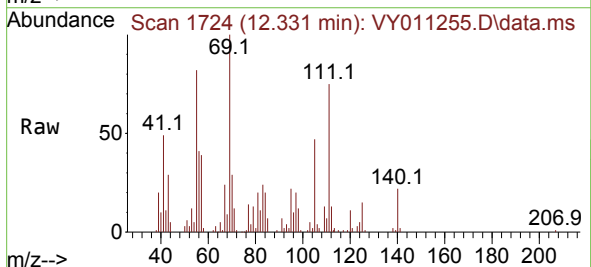
Instrument :
MSVOA_Y
ClientSampleId :
SB-02-11.5-12.0

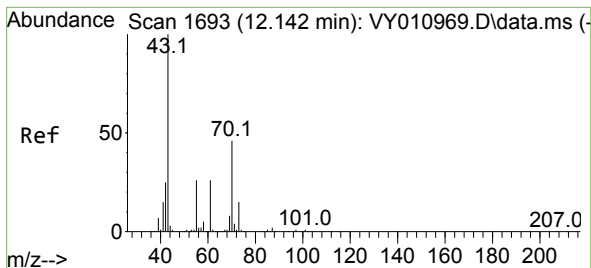
Tgt Ion:152 Resp: 35746
Ion Ratio Lower Upper
152 100
115 41.2 28.2 84.7
150 107.7 0.0 347.6



#73
Isopropylbenzene
Concen: 3.323 ug/l
RT: 12.331 min Scan# 1724
Delta R.T. 0.006 min
Lab File: VY011255.D
Acq: 02 Nov 2022 12:25

Tgt Ion:105 Resp: 8880
Ion Ratio Lower Upper
105 100
120 23.2 13.4 40.2





#74

N-amy1 acetate

Concen: 71.206 ug/l

RT: 12.117 min Scan# 1

Delta R.T. -0.025 min

Lab File: VY011255.D

Acq: 02 Nov 2022 12:25

Instrument :

MSVOA_Y

ClientSampleId :

SB-02-11.5-12.0

Tgt Ion: 43 Resp: 47771

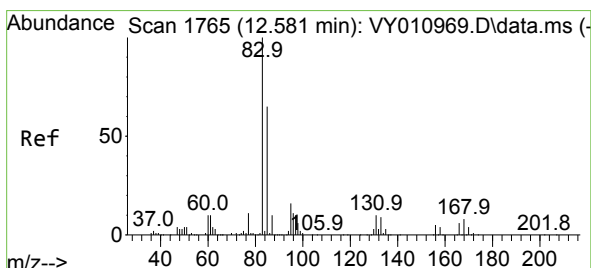
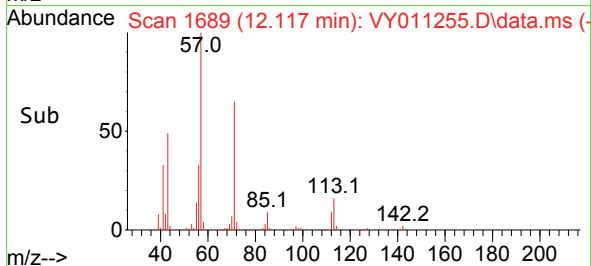
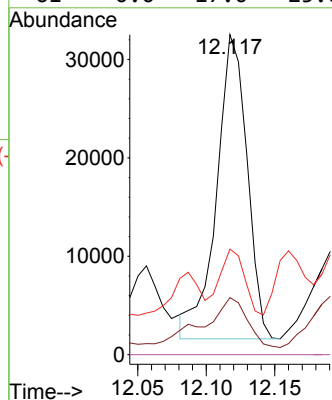
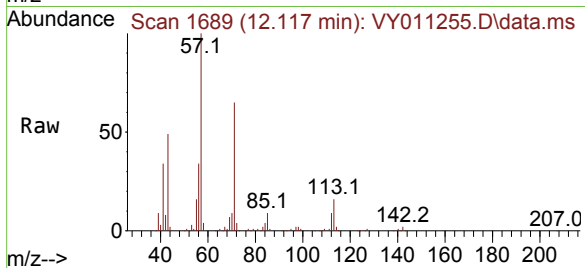
Ion Ratio Lower Upper

43 100

70 23.6 28.7 43.1#

55 17.4 17.3 25.9

61 0.0 17.0 25.6#



#75

1,1,2,2-Tetrachloroethane

Concen: 15.167 ug/l

RT: 12.556 min Scan# 1761

Delta R.T. -0.025 min

Lab File: VY011255.D

Acq: 02 Nov 2022 12:25

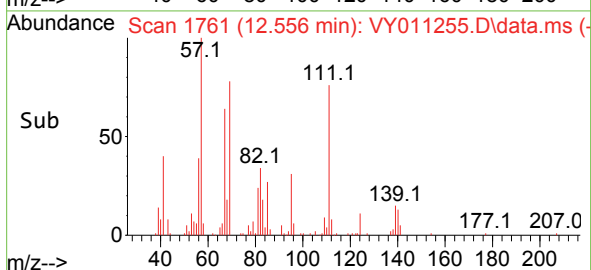
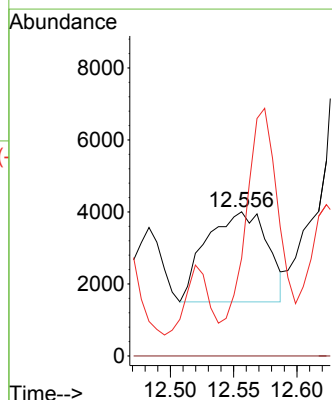
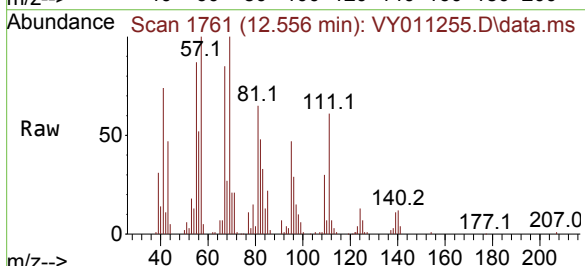
Tgt Ion: 83 Resp: 8388

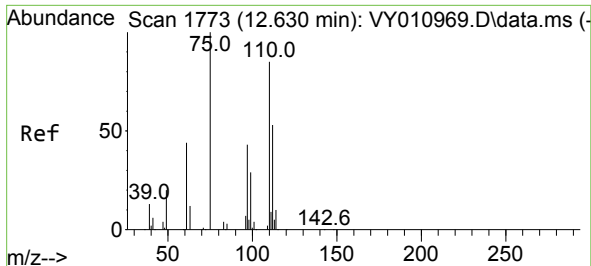
Ion Ratio Lower Upper

83 100

131 0.0 5.6 16.8#

85 119.2 32.3 96.8#

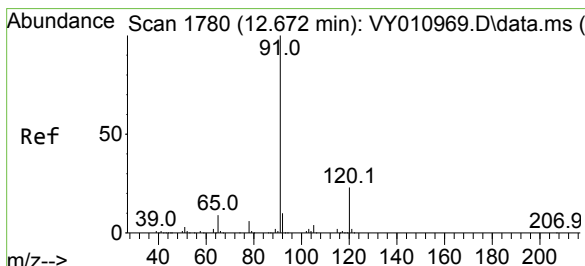
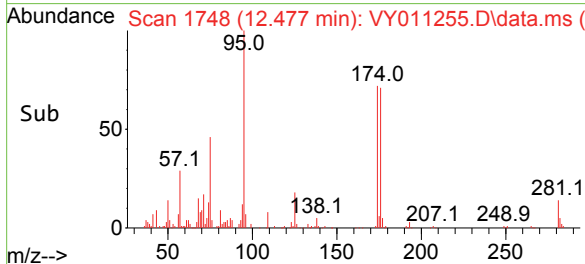
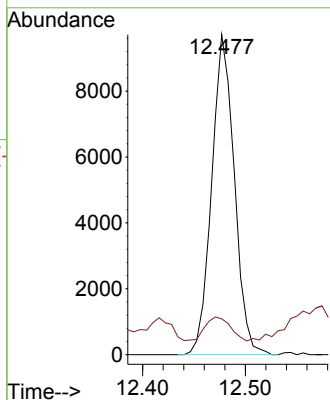
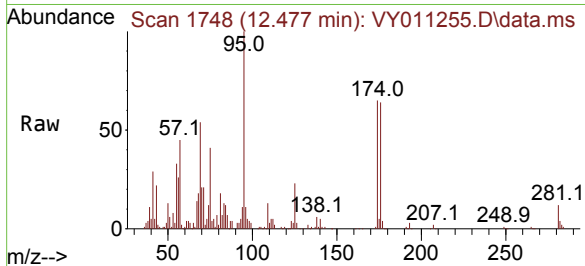




#76
1,2,3-Trichloropropane
Concen: 34.108 ug/l
RT: 12.477 min Scan# 1773
Delta R.T. -0.153 min
Lab File: VY011255.D
Acq: 02 Nov 2022 12:25

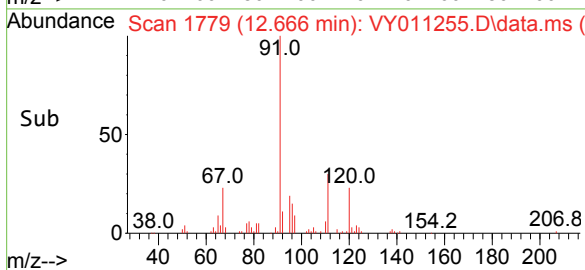
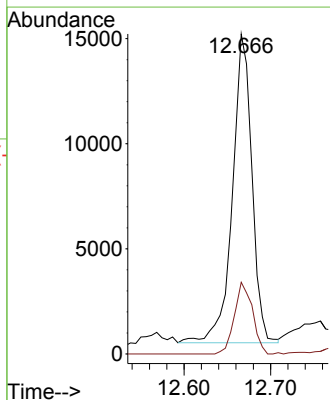
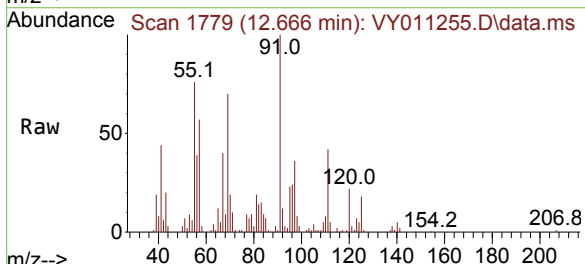
Instrument :
MSVOA_Y
ClientSampleId :
SB-02-11.5-12.0

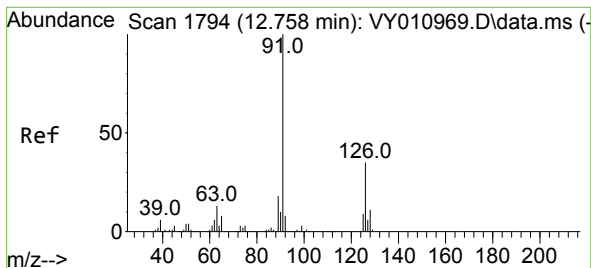
Tgt Ion: 75 Resp: 14843
Ion Ratio Lower Upper
75 100
77 8.2 0.0 0.0#



#78
n-propylbenzene
Concen: 7.042 ug/l
RT: 12.666 min Scan# 1779
Delta R.T. -0.006 min
Lab File: VY011255.D
Acq: 02 Nov 2022 12:25

Tgt Ion: 91 Resp: 23029
Ion Ratio Lower Upper
91 100
120 21.5 11.3 33.9





#79

2-Chlorotoluene

Concen: 1.089 ug/l

RT: 12.757 min Scan# 1

Delta R.T. -0.001 min

Lab File: VY011255.D

Acq: 02 Nov 2022 12:25

Instrument :

MSVOA_Y

ClientSampleId :

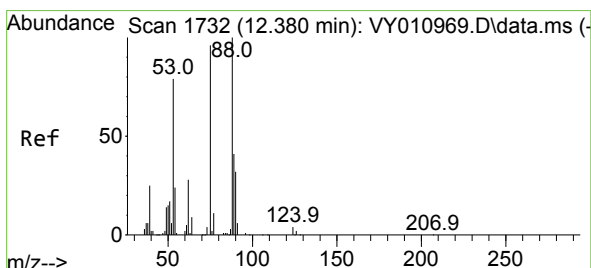
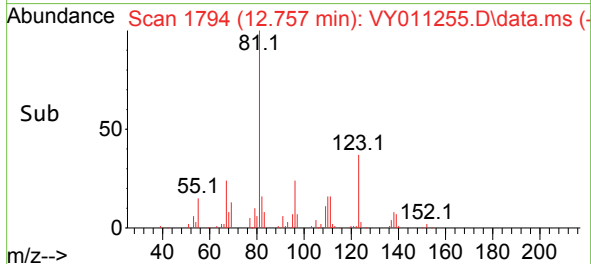
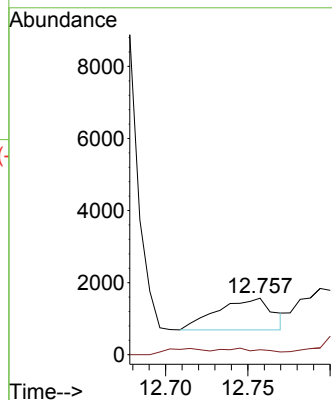
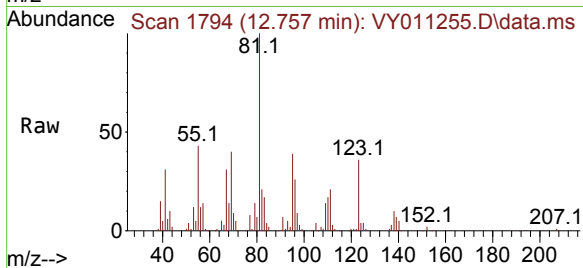
SB-02-11.5-12.0

Tgt Ion: 91 Resp: 2040

Ion Ratio Lower Upper

91 100

126 0.0 16.9 50.6#



#81

trans-1,4-Dichloro-2-butene

Concen: 72.995 ug/l

RT: 12.477 min Scan# 1748

Delta R.T. 0.097 min

Lab File: VY011255.D

Acq: 02 Nov 2022 12:25

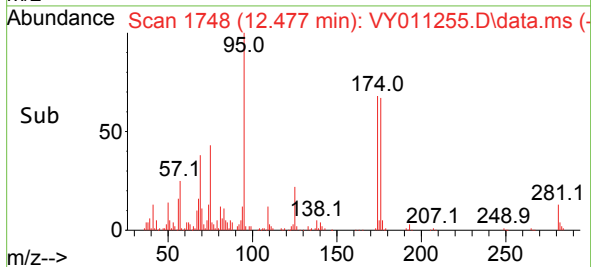
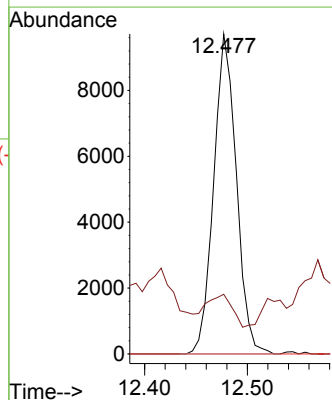
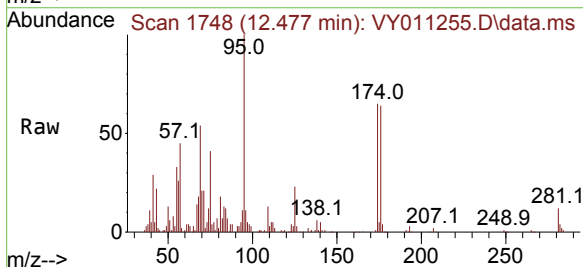
Tgt Ion: 75 Resp: 14843

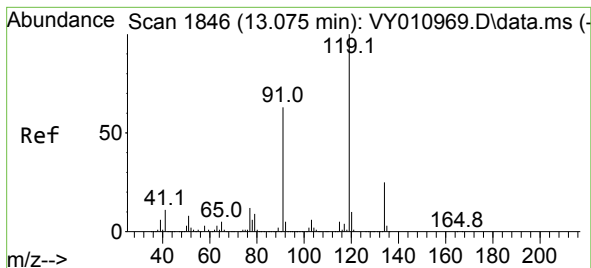
Ion Ratio Lower Upper

75 100

53 12.2 85.3 127.9#

89 0.0 37.0 55.4#





#83

tert-Butylbenzene

Concen: 2.661 ug/l

RT: 13.074 min Scan# 119

Delta R.T. -0.001 min

Lab File: VY011255.D

Acq: 02 Nov 2022 12:25

Instrument :

MSVOA_Y

ClientSampleId :

SB-02-11.5-12.0

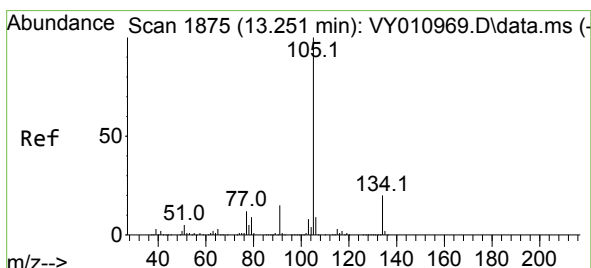
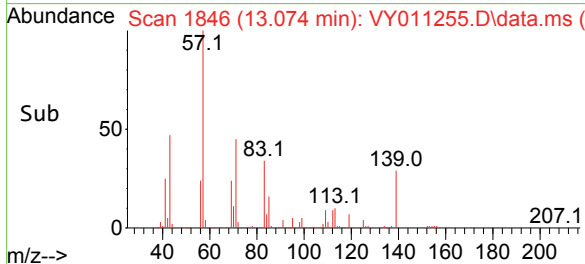
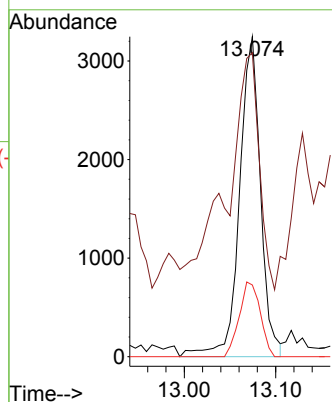
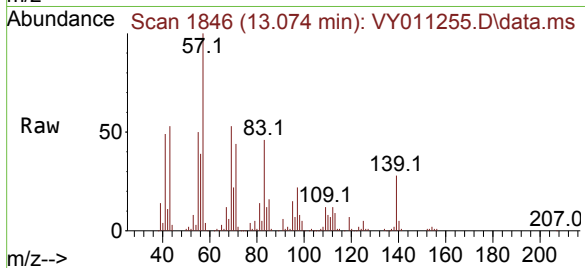
Tgt Ion:119 Resp: 5185

Ion Ratio Lower Upper

119 100

91 74.4 34.8 104.4

134 23.2 13.3 39.9



#85

sec-Butylbenzene

Concen: 19.671 ug/l

RT: 13.251 min Scan# 1875

Delta R.T. 0.000 min

Lab File: VY011255.D

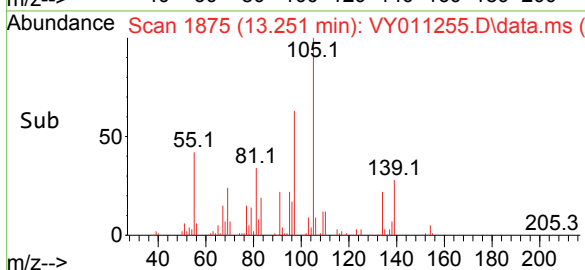
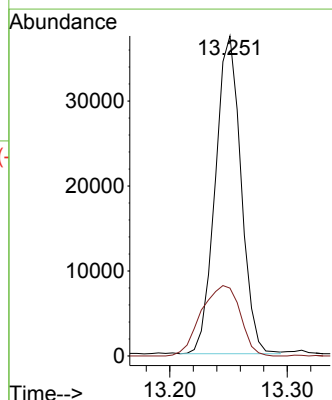
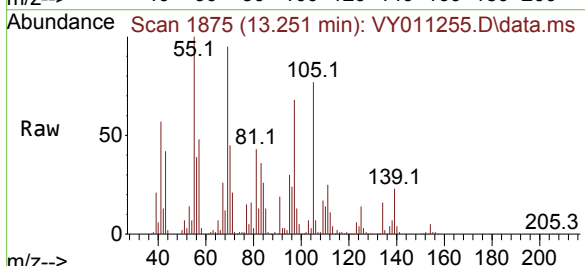
Acq: 02 Nov 2022 12:25

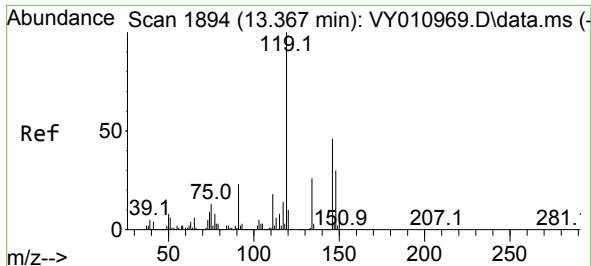
Tgt Ion:105 Resp: 56833

Ion Ratio Lower Upper

105 100

134 33.6 10.2 30.4#





#86

p-Isopropyltoluene

Concen: 8.371 ug/l

RT: 13.520 min Scan# 1919

Delta R.T. 0.153 min

Lab File: VY011255.D

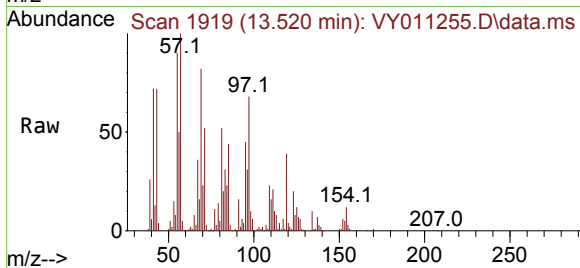
Acq: 02 Nov 2022 12:25

Instrument :

MSVOA_Y

ClientSampleId :

SB-02-11.5-12.0



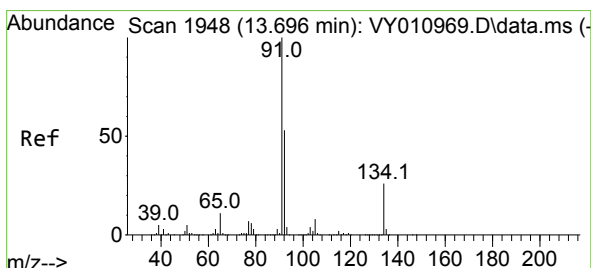
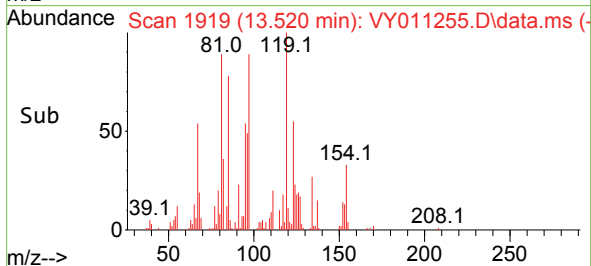
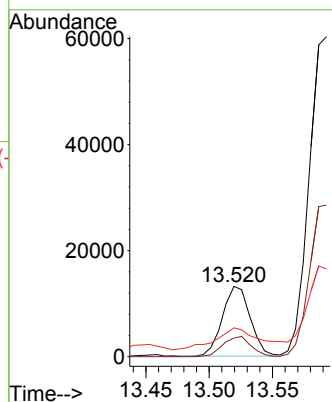
Tgt Ion:119 Resp: 20159

Ion Ratio Lower Upper

119 100

134 29.3 13.2 39.5

91 48.6 12.4 37.2#



#89

n-Butylbenzene

Concen: 21.294 ug/l

RT: 13.690 min Scan# 1947

Delta R.T. -0.006 min

Lab File: VY011255.D

Acq: 02 Nov 2022 12:25

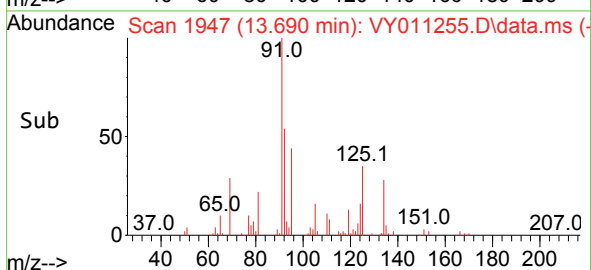
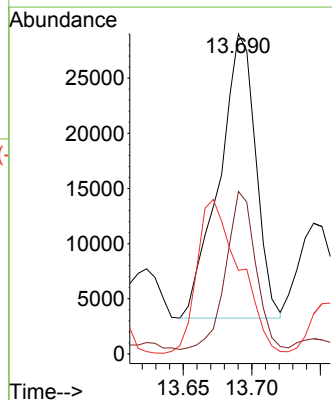
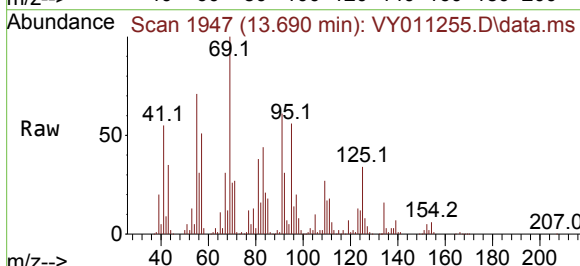
Tgt Ion: 91 Resp: 47886

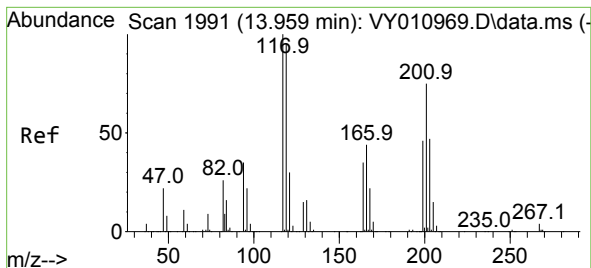
Ion Ratio Lower Upper

91 100

92 46.4 26.3 78.9

134 63.2 13.0 38.9#





#90

Hexachloroethane

Concen: 10.436 ug/l

RT: 13.971 min Scan# 1993

Delta R.T. 0.012 min

Lab File: VY011255.D

Acq: 02 Nov 2022 12:25

Instrument :

MSVOA_Y

ClientSampleId :

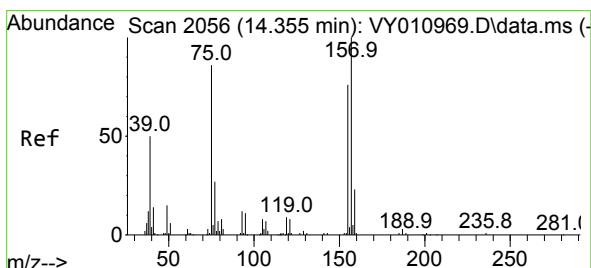
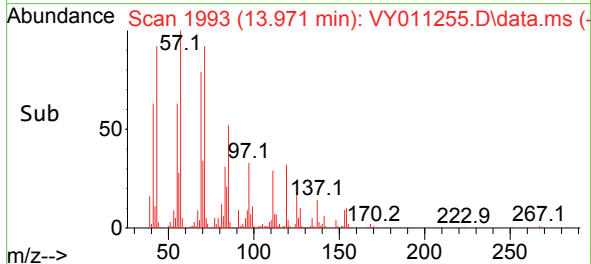
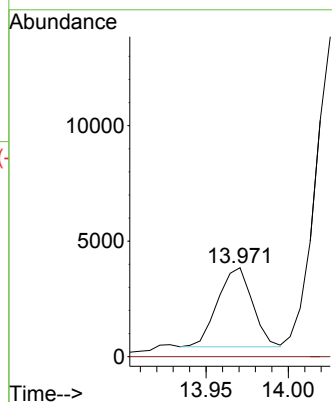
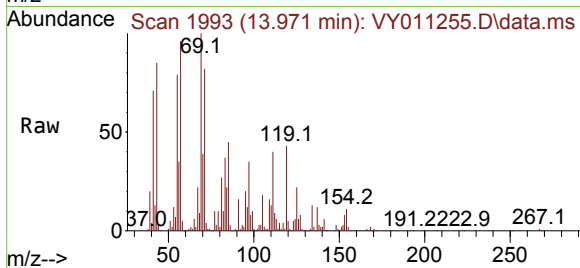
SB-02-11.5-12.0

Tgt Ion:117 Resp: 5026

Ion Ratio Lower Upper

117 100

201 0.0 43.0 128.8#



#92

1,2-Dibromo-3-Chloropropane

Concen: 16.466 ug/l

RT: 14.373 min Scan# 2059

Delta R.T. 0.018 min

Lab File: VY011255.D

Acq: 02 Nov 2022 12:25

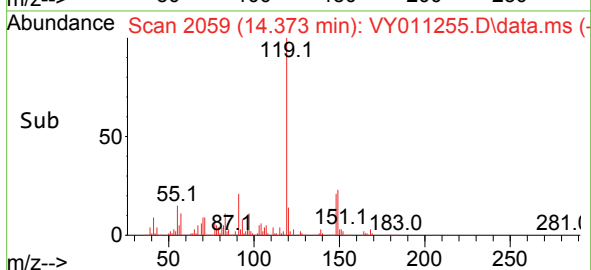
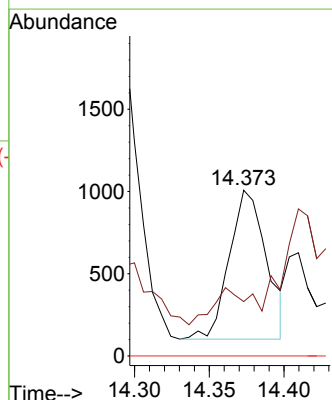
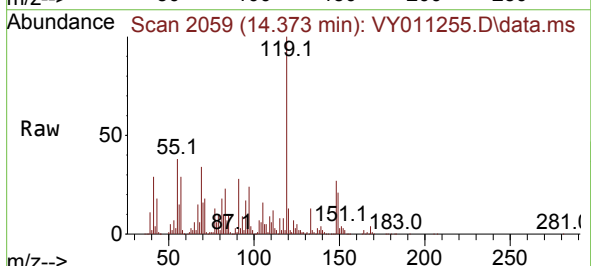
Tgt Ion: 75 Resp: 1560

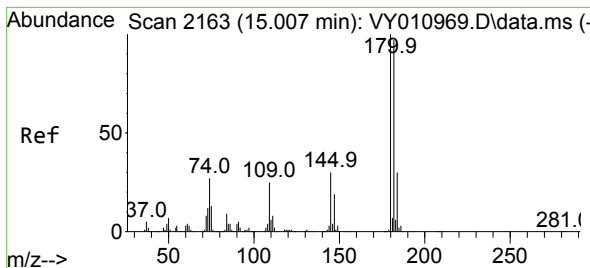
Ion Ratio Lower Upper

75 100

155 18.9 38.0 113.9#

157 0.0 47.8 143.3#





#93

1,2,4-Trichlorobenzene

Concen: 6.598 ug/l

RT: 15.038 min Scan# 2168

Delta R.T. 0.031 min

Lab File: VY011255.D

Acq: 02 Nov 2022 12:25

Instrument :

MSVOA_Y

ClientSampleId :

SB-02-11.5-12.0

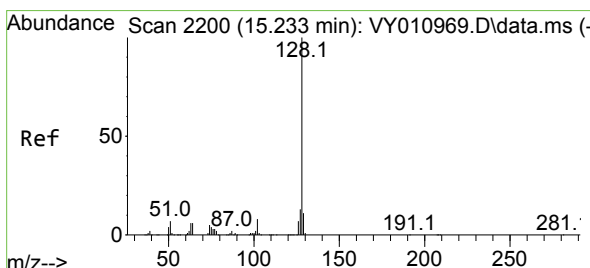
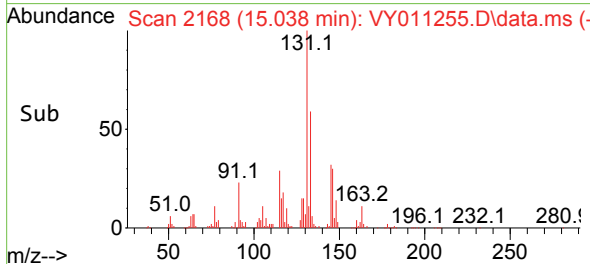
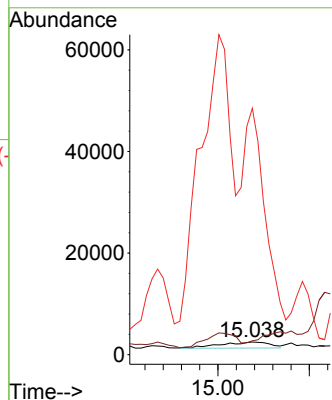
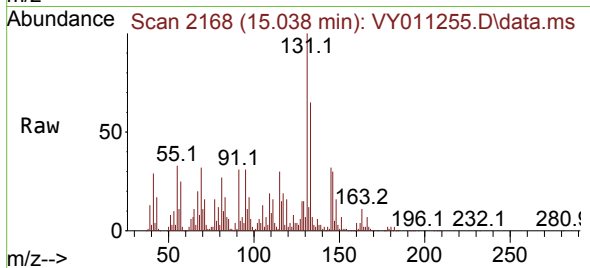
Tgt Ion:180 Resp: 4490

Ion Ratio Lower Upper

180 100

182 0.0 47.3 141.9#

145 1735.8 14.6 43.8#



#95

Naphthalene

Concen: 13.955 ug/l

RT: 15.202 min Scan# 2195

Delta R.T. -0.031 min

Lab File: VY011255.D

Acq: 02 Nov 2022 12:25

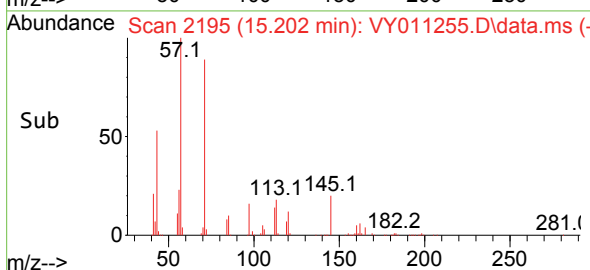
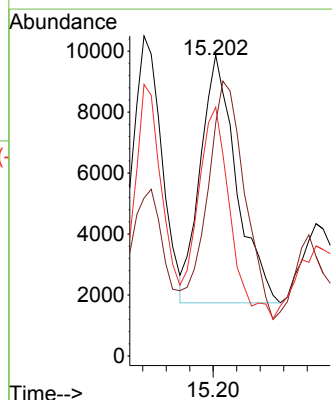
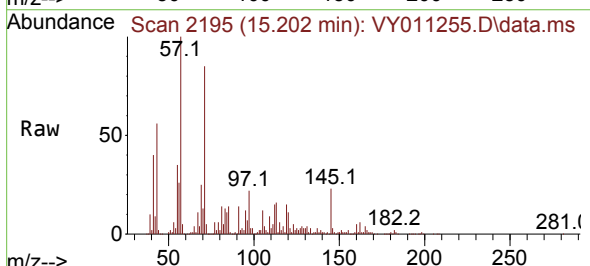
Tgt Ion:128 Resp: 17260

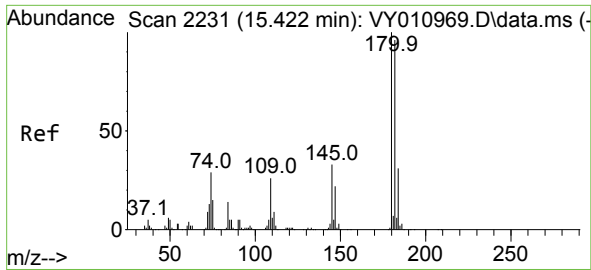
Ion Ratio Lower Upper

128 100

127 100.3 11.0 16.4#

129 76.3 8.4 12.6#





#96
 1,2,3-Trichlorobenzene
 Concen: 6.260 ug/l
 RT: 15.440 min Scan# 21
 Delta R.T. 0.018 min
 Lab File: VY011255.D
 Acq: 02 Nov 2022 12:25

Instrument :
 MSVOA_Y
 ClientSampleId :
 SB-02-11.5-12.0

Tgt Ion:180 Resp: 3744
 Ion Ratio Lower Upper
 180 100
 182 0.0 47.3 141.9#
 145 2918.5 15.3 45.9#

