

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY072023\
 Data File : VY014724.D
 Acq On : 20 Jul 2023 16:28
 Operator : SY/MD
 Sample : 03674-01
 Misc : 6.47g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 WO-7

Quant Time: Jul 21 01:32:38 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)

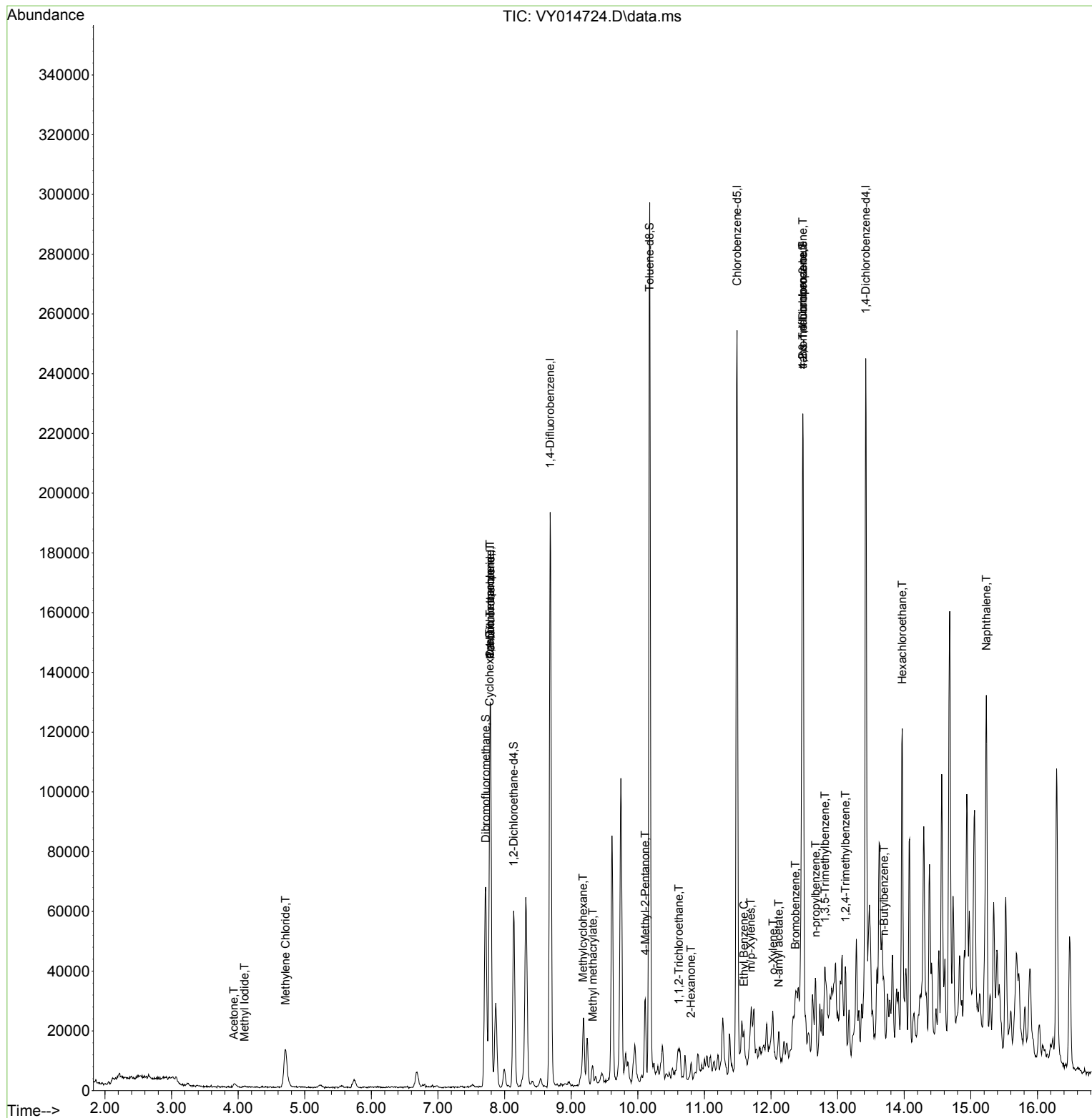
Internal Standards						
1) Pentafluorobenzene	7.789	168	100604	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.685	114	160361	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.489	117	131307	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.422	152	58071	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.136	65	47314	41.271	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	82.540%
35) Dibromofluoromethane	7.716	113	47436	46.469	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	92.940%
50) Toluene-d8	10.179	98	184067	48.908	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	97.820%
62) 4-Bromofluorobenzene	12.477	95	59608	41.306	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	82.620%
Target Compounds						
					Qvalue	
10) Methyl Iodide	4.094	142	216	2.553	ug/l #	48
11) Tert butyl alcohol	4.948	59	129	Below Cal	#	89
16) Acetone	3.936	43	2431	6.692	ug/l	99
20) Methylene Chloride	4.710	84	9675	4.342	ug/l	87
31) Cyclohexane	7.777	56	2970	1.561	ug/l #	18
36) 1,1-Dichloropropene	7.783	75	7487	4.904	ug/l #	51
38) Carbon Tetrachloride	7.783	117	10196	6.318	ug/l #	15
39) Methylcyclohexane	9.179	83	3149	1.583	ug/l #	42
48) Methyl methacrylate	9.325	41	1773	1.968	ug/l #	30
51) 4-Methyl-2-Pentanone	10.112	43	3484	3.314	ug/l #	83
55) 1,1,2-Trichloroethane	10.618	97	2589	2.702	ug/l #	28
59) 2-Hexanone	10.801	43	1967	2.566	ug/l #	29
67) Ethyl Benzene	11.593	91	6431	1.273	ug/l	97
68) m/p-Xylenes	11.697	106	4357	2.259	ug/l	94
69) o-Xylene	12.032	106	4069	2.166	ug/l	89
74) N-amyl acetate	12.117	43	2467	1.620	ug/l #	57
76) 1,2,3-Trichloropropane	12.477	75	32334	44.087	ug/l #	100
77) Bromobenzene	12.367	156	4747	4.574	ug/l #	1
78) n-propylbenzene	12.672	91	17873	3.262	ug/l	98
80) 1,3,5-Trimethylbenzene	12.812	105	6887	1.814	ug/l	96
81) trans-1,4-Dichloro-2-b...	12.477	75	32334	85.359	ug/l #	11
84) 1,2,4-Trimethylbenzene	13.117	105	13365	3.586	ug/l	97
89) n-Butylbenzene	13.696	91	11035	2.811	ug/l #	82
90) Hexachloroethane	13.971	117	4285	5.171	ug/l #	8
95) Naphthalene	15.233	128	82713	30.219	ug/l	98

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

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ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
WO-7

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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

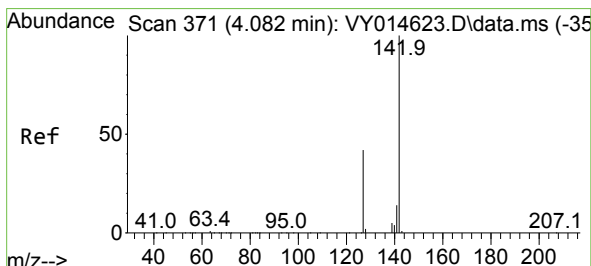
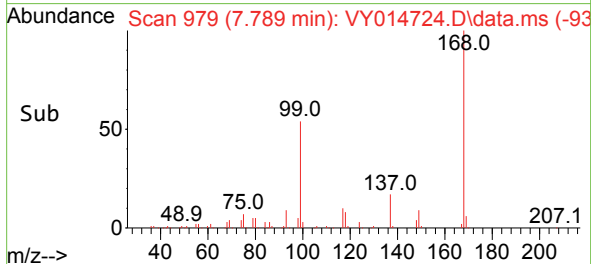
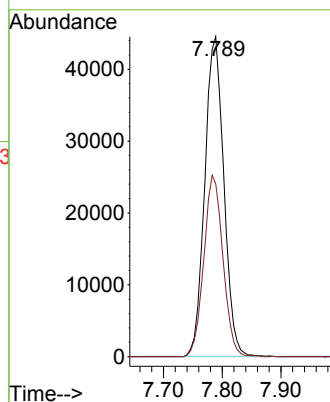
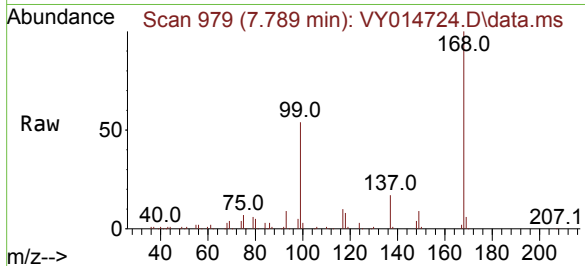




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.789 min Scan# 91
Delta R.T. -0.000 min
Lab File: VY014724.D
Acq: 20 Jul 2023 16:28

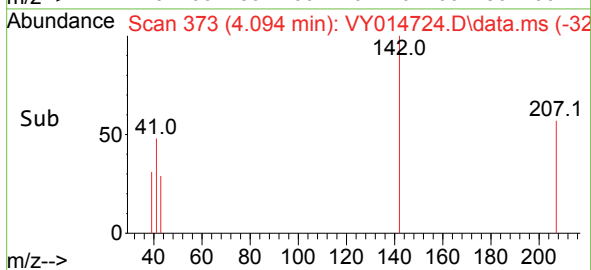
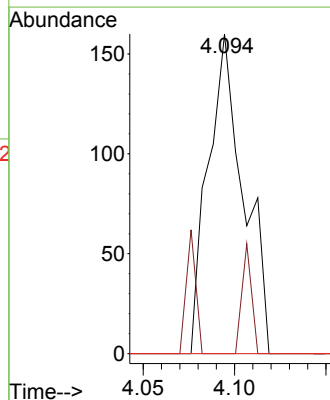
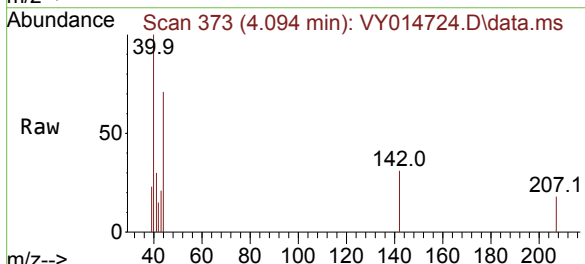
Instrument :
MSVOA_Y
ClientSampleId :
WO-7

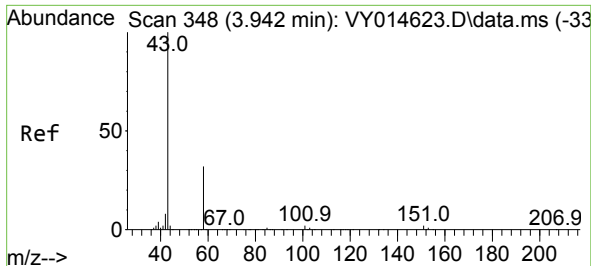
Tgt Ion:168 Resp: 100604
Ion Ratio Lower Upper
168 100
99 54.1 43.4 65.0



#10
Methyl Iodide
Concen: 2.553 ug/l
RT: 4.094 min Scan# 373
Delta R.T. 0.012 min
Lab File: VY014724.D
Acq: 20 Jul 2023 16:28

Tgt Ion:142 Resp: 216
Ion Ratio Lower Upper
142 100
127 9.3 37.6 56.4#
141 0.0 11.8 17.8#

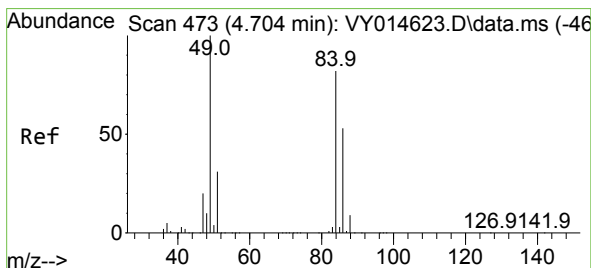
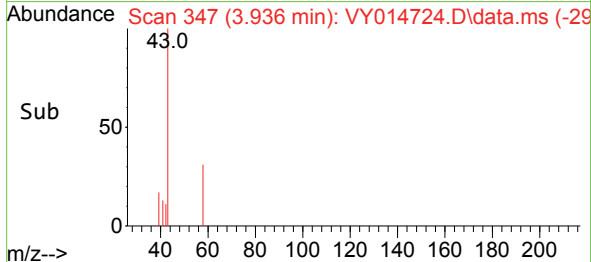
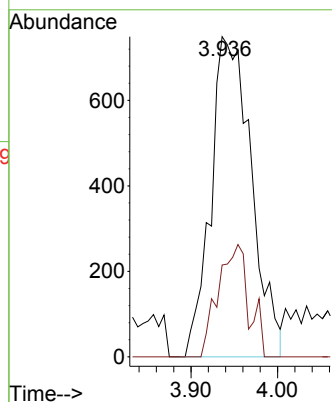
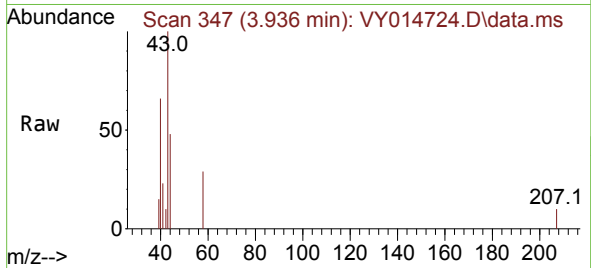




#16
Acetone
Concen: 6.692 ug/l
RT: 3.936 min Scan# 34
Delta R.T. -0.006 min
Lab File: VY014724.D
Acq: 20 Jul 2023 16:28

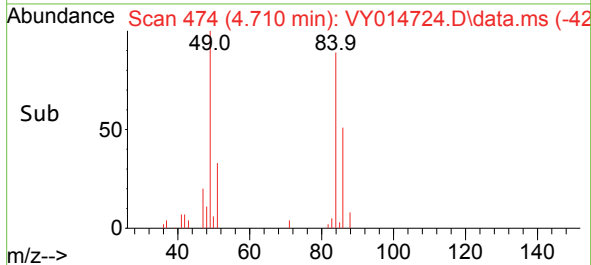
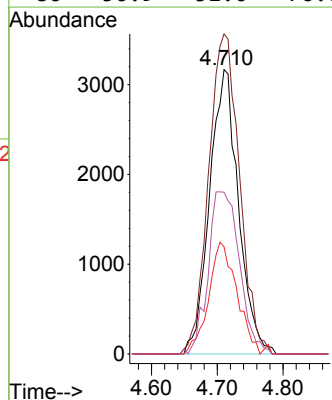
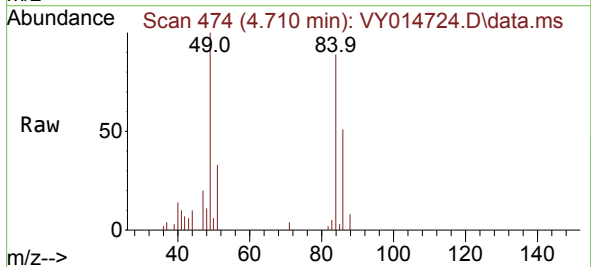
Instrument :
MSVOA_Y
ClientSampleId :
WO-7

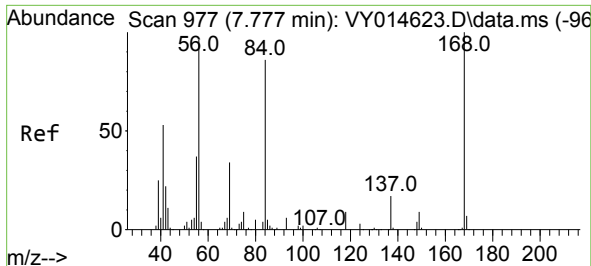
Tgt Ion: 43 Resp: 2431
Ion Ratio Lower Upper
43 100
58 28.7 22.7 34.1



#20
Methylene Chloride
Concen: 4.342 ug/l
RT: 4.710 min Scan# 474
Delta R.T. 0.006 min
Lab File: VY014724.D
Acq: 20 Jul 2023 16:28

Tgt Ion: 84 Resp: 9675
Ion Ratio Lower Upper
84 100
49 112.6 106.9 160.3
51 37.7 33.2 49.8
86 56.9 51.0 76.6

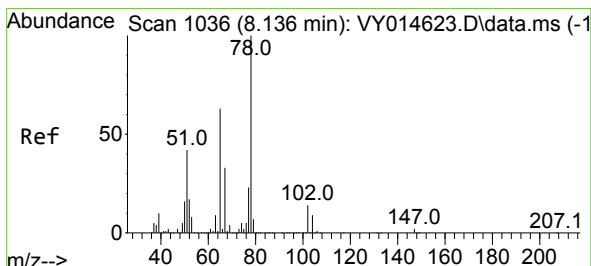
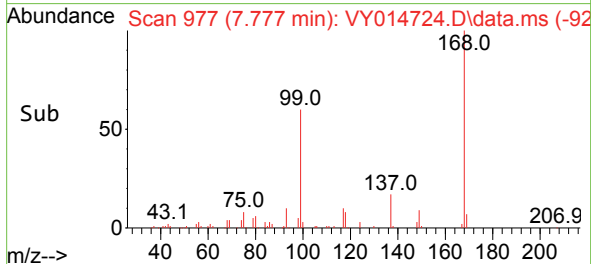
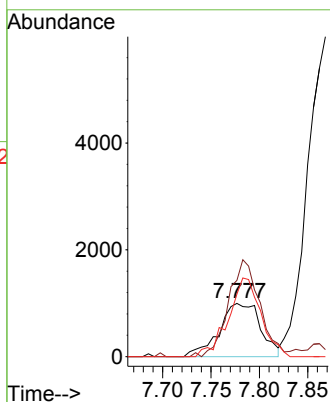
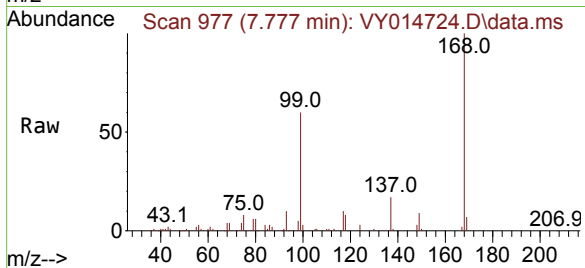




#31
Cyclohexane
Concen: 1.561 ug/l
RT: 7.777 min Scan# 91
Delta R.T. -0.000 min
Lab File: VY014724.D
Acq: 20 Jul 2023 16:28

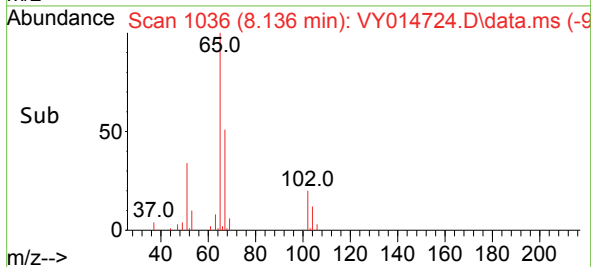
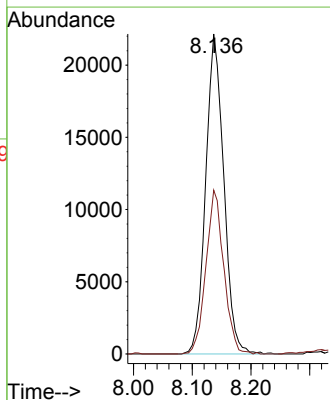
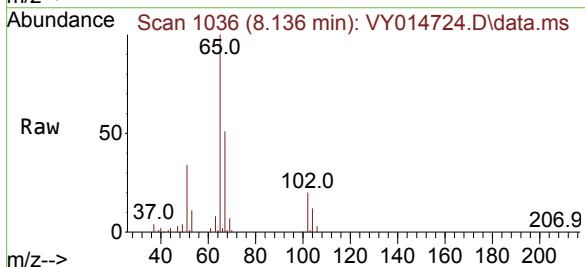
Instrument :
MSVOA_Y
ClientSampleId :
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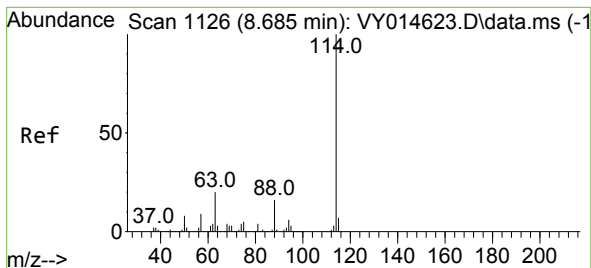
Tgt Ion: 56 Resp: 2970
Ion Ratio Lower Upper
56 100
69 143.2 27.8 41.6#
84 117.4 66.4 99.6#



#33
1,2-Dichloroethane-d4
Concen: 41.271 ug/l
RT: 8.136 min Scan# 1036
Delta R.T. 0.000 min
Lab File: VY014724.D
Acq: 20 Jul 2023 16:28

Tgt Ion: 65 Resp: 47314
Ion Ratio Lower Upper
65 100
67 50.7 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: VY014724.D

Acq: 20 Jul 2023 16:28

Instrument :

MSVOA_Y

ClientSampleId :

WO-7

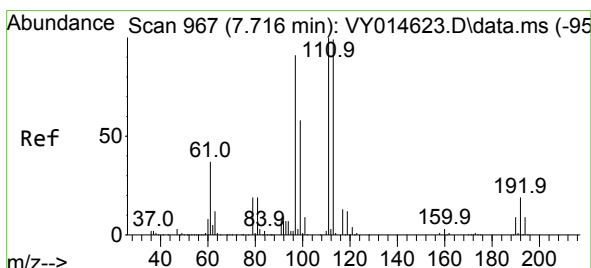
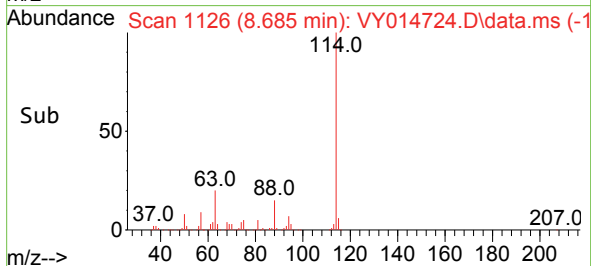
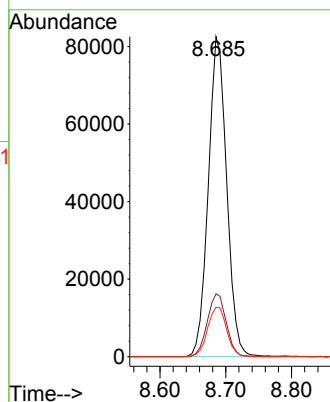
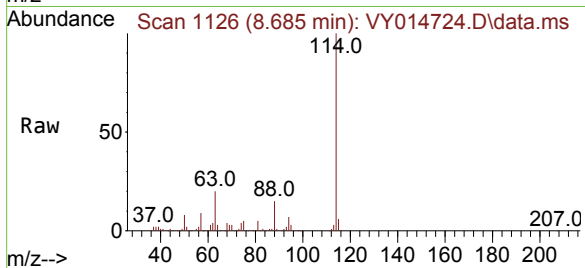
Tgt Ion:114 Resp: 160361

Ion Ratio Lower Upper

114 100

63 19.6 0.0 42.4

88 15.4 0.0 30.6



#35

Dibromofluoromethane

Concen: 46.469 ug/l

RT: 7.716 min Scan# 967

Delta R.T. -0.000 min

Lab File: VY014724.D

Acq: 20 Jul 2023 16:28

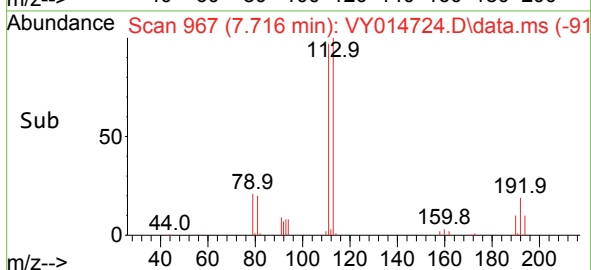
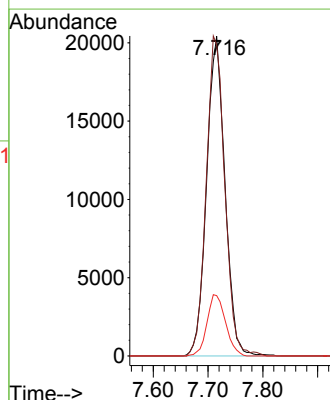
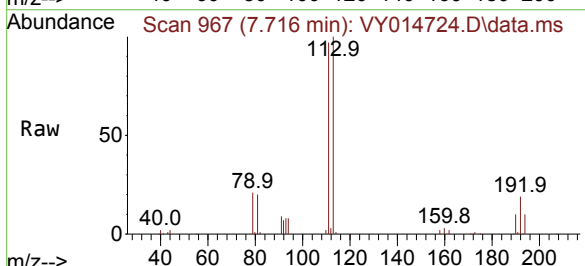
Tgt Ion:113 Resp: 47436

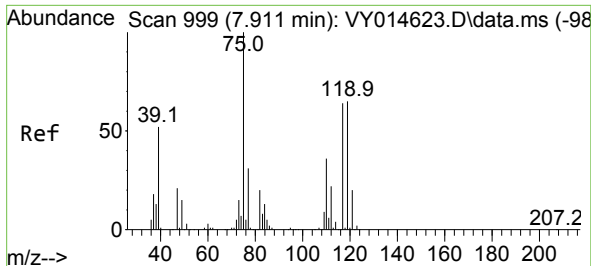
Ion Ratio Lower Upper

113 100

111 101.1 81.3 121.9

192 19.4 16.9 25.3

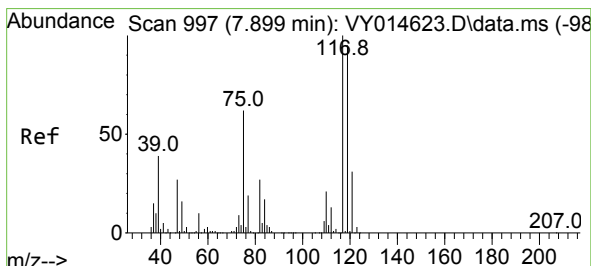
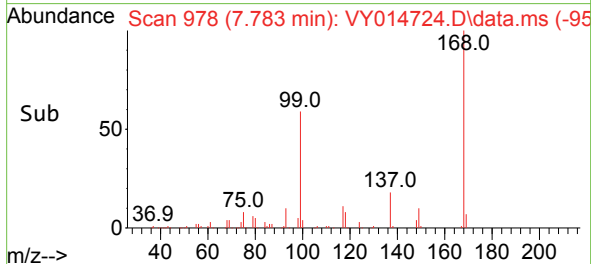
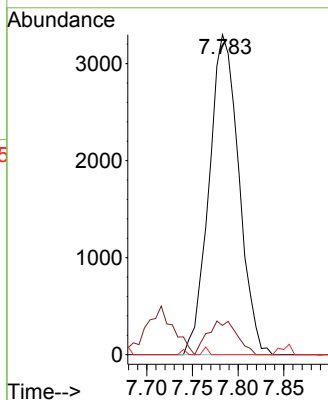
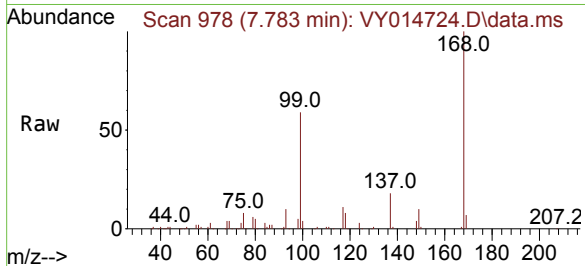




#36
1,1-Dichloropropene
Concen: 4.904 ug/l
RT: 7.783 min Scan# 91
Delta R.T. -0.128 min
Lab File: VY014724.D
Acq: 20 Jul 2023 16:28

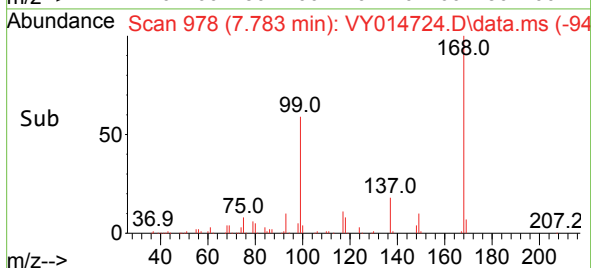
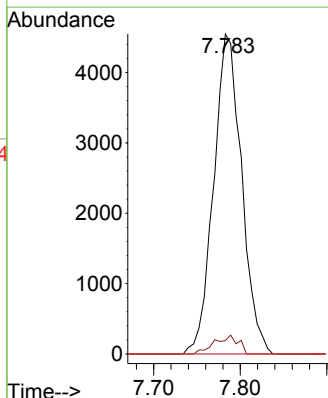
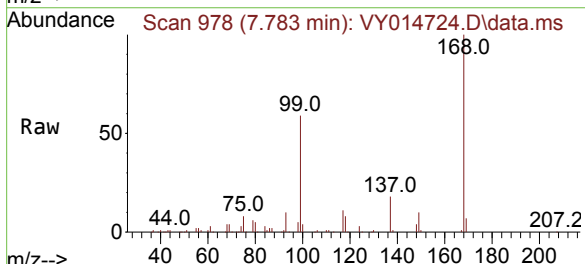
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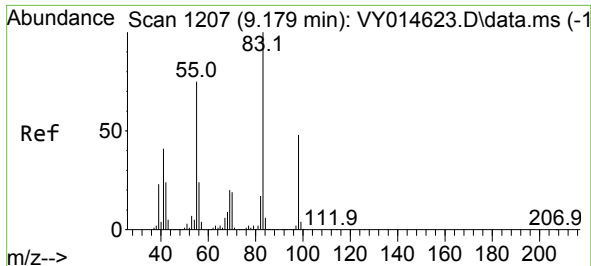
Tgt Ion: 75 Resp: 7487
Ion Ratio Lower Upper
75 100
110 10.4 17.8 53.5#
77 0.4 24.4 36.6#



#38
Carbon Tetrachloride
Concen: 6.318 ug/l
RT: 7.783 min Scan# 978
Delta R.T. -0.116 min
Lab File: VY014724.D
Acq: 20 Jul 2023 16:28

Tgt Ion: 117 Resp: 10196
Ion Ratio Lower Upper
117 100
119 4.2 76.4 114.6#
121 0.0 25.8 38.6#





#39

Methylcyclohexane

Concen: 1.583 ug/l

RT: 9.179 min Scan# 11

Delta R.T. -0.000 min

Lab File: VY014724.D

Acq: 20 Jul 2023 16:28

Instrument :

MSVOA_Y

ClientSampleId :

WO-7

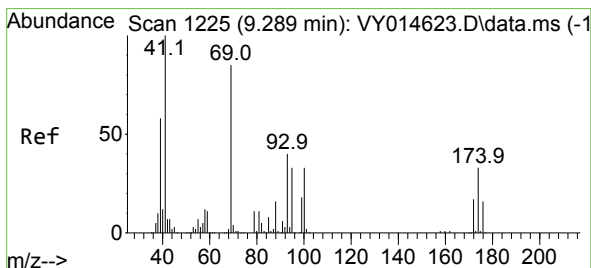
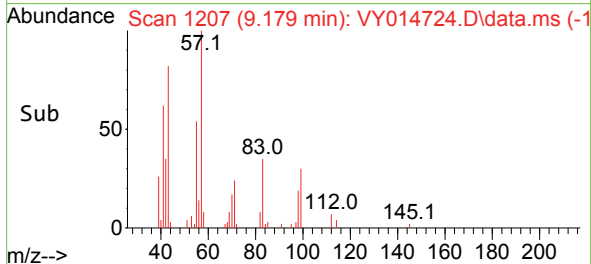
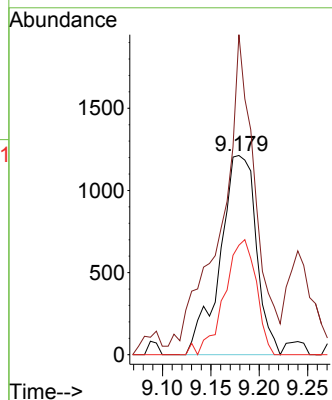
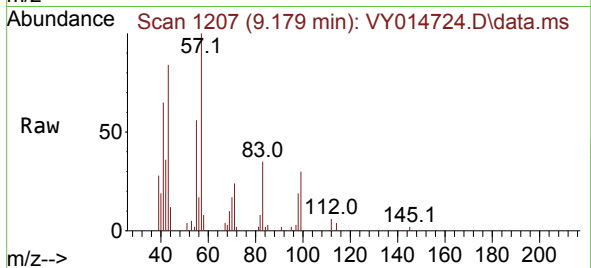
Tgt Ion: 83 Resp: 3149

Ion Ratio Lower Upper

83 100

55 153.6 63.0 94.4#

98 55.0 37.4 56.2



#48

Methyl methacrylate

Concen: 1.968 ug/l

RT: 9.325 min Scan# 1231

Delta R.T. 0.036 min

Lab File: VY014724.D

Acq: 20 Jul 2023 16:28

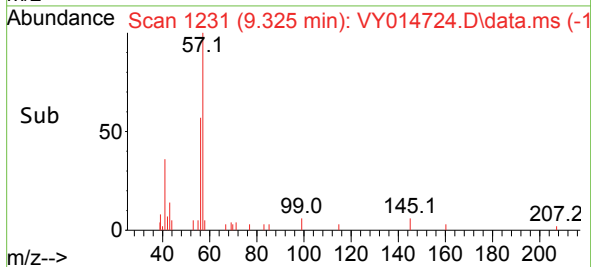
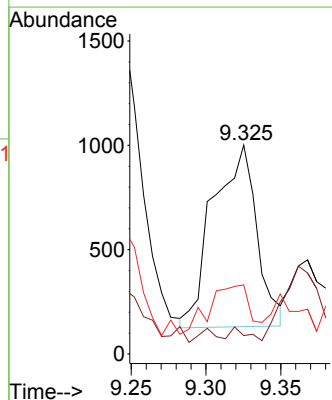
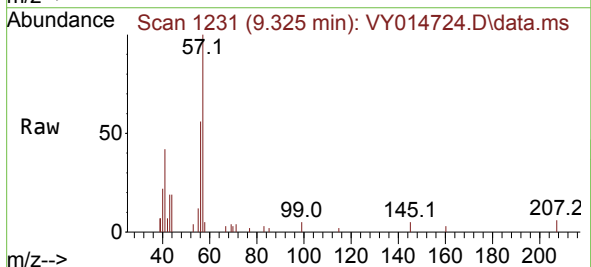
Tgt Ion: 41 Resp: 1773

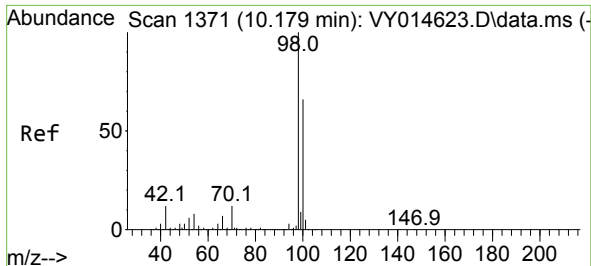
Ion Ratio Lower Upper

41 100

69 3.1 64.5 96.7#

39 27.0 50.8 76.2#

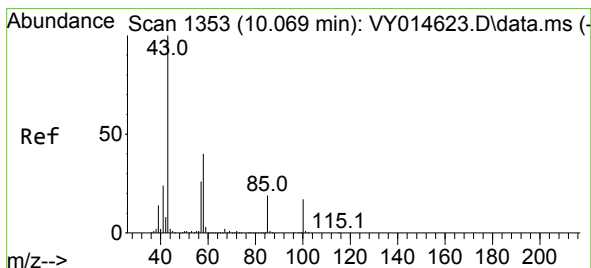
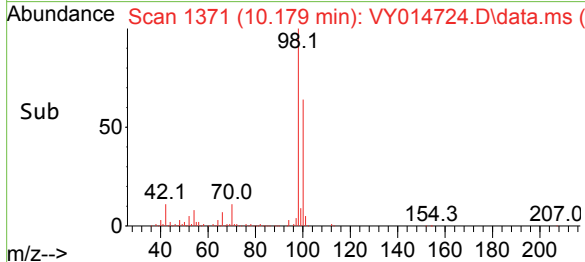
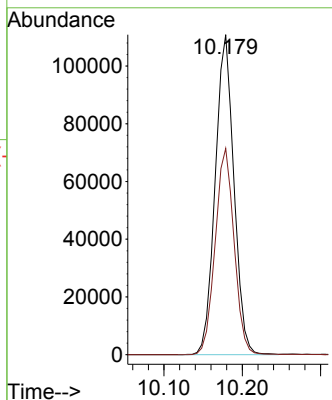
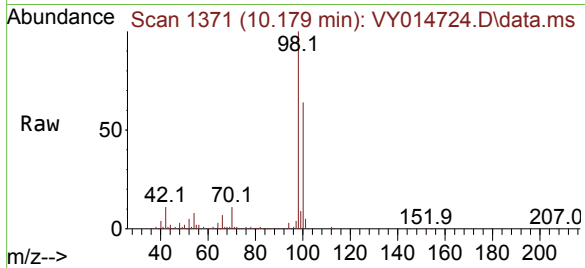




#50
Toluene-d8
Concen: 48.908 ug/l
RT: 10.179 min Scan# 1371
Delta R.T. -0.000 min
Lab File: VY014724.D
Acq: 20 Jul 2023 16:28

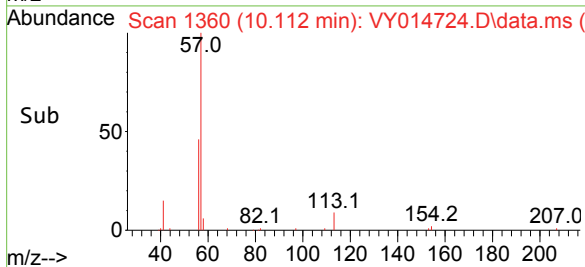
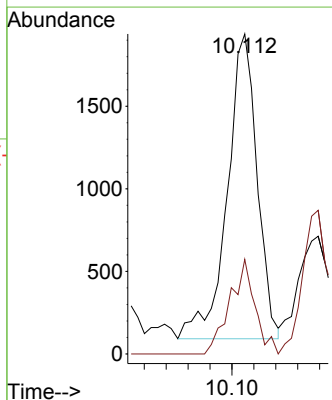
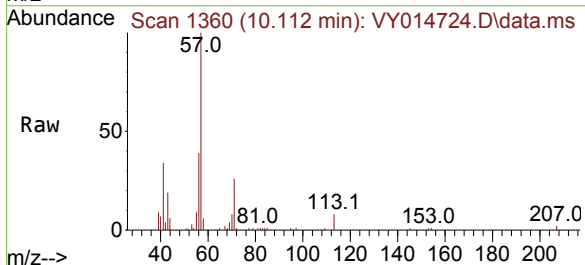
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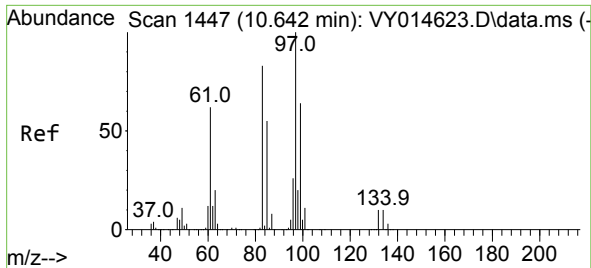
Tgt Ion: 98 Resp: 184067
Ion Ratio Lower Upper
98 100
100 65.2 50.1 75.1



#51
4-Methyl-2-Pentanone
Concen: 3.314 ug/l
RT: 10.112 min Scan# 1360
Delta R.T. 0.043 min
Lab File: VY014724.D
Acq: 20 Jul 2023 16:28

Tgt Ion: 43 Resp: 3484
Ion Ratio Lower Upper
43 100
58 26.1 29.0 43.6#

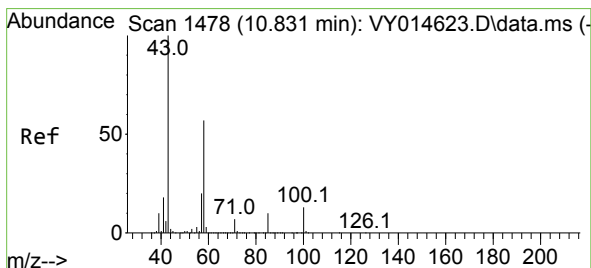
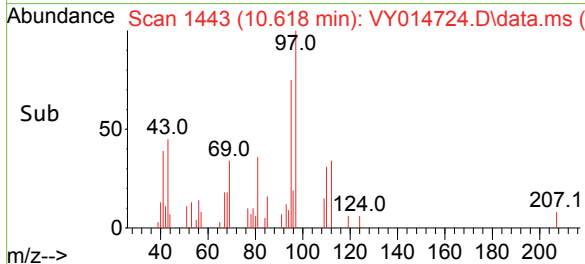
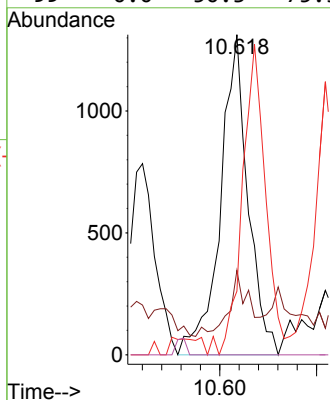
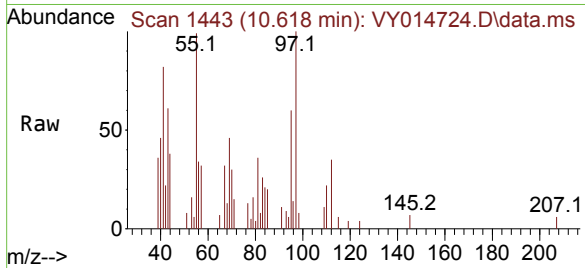




#55
1,1,2-Trichloroethane
Concen: 2.702 ug/l
RT: 10.618 min Scan# 1443
Delta R.T. -0.024 min
Lab File: VY014724.D
Acq: 20 Jul 2023 16:28

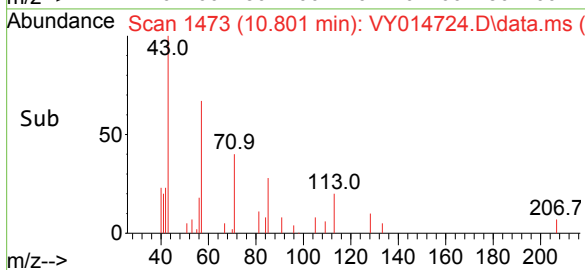
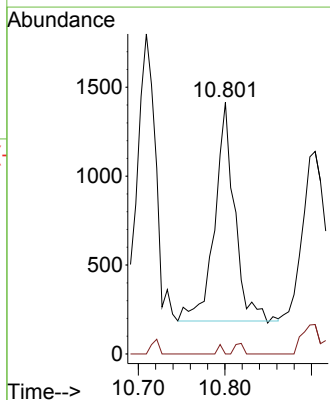
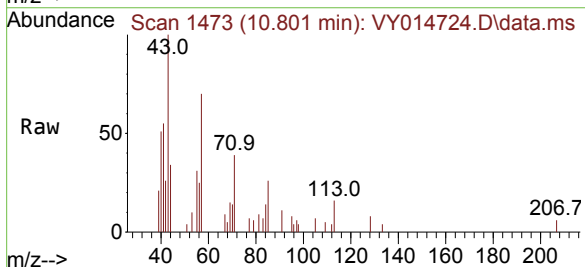
Instrument : MSVOA_Y
ClientSampleId : WO-7

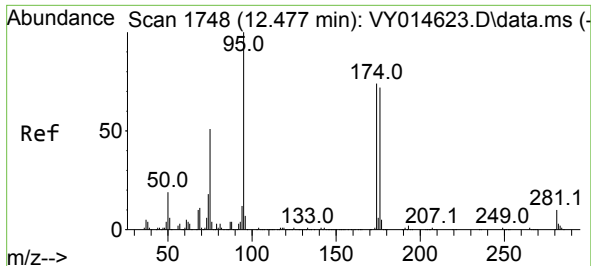
Tgt Ion: 97	Resp: 2589
Ion Ratio	Lower Upper
97 100	
83 18.8	72.0 108.0#
85 15.1	45.4 68.0#
99 0.0	50.3 75.5#



#59
2-Hexanone
Concen: 2.566 ug/l
RT: 10.801 min Scan# 1473
Delta R.T. -0.030 min
Lab File: VY014724.D
Acq: 20 Jul 2023 16:28

Tgt Ion: 43	Resp: 1967
Ion Ratio	Lower Upper
43 100	
58 1.0	25.1 75.3#

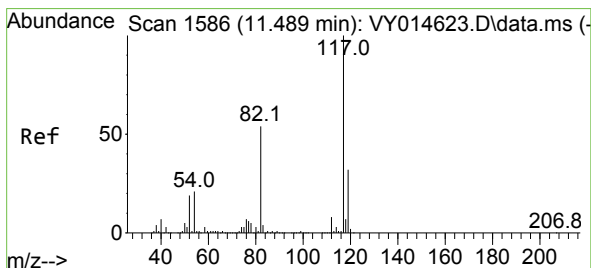
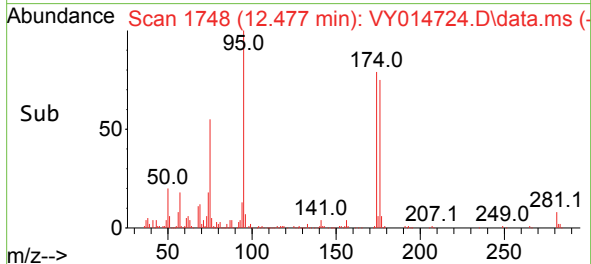
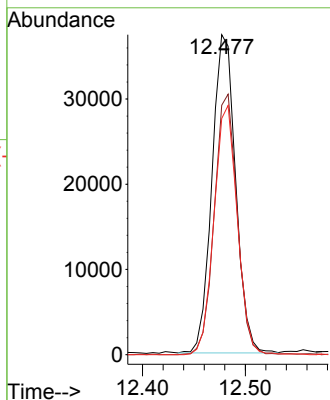
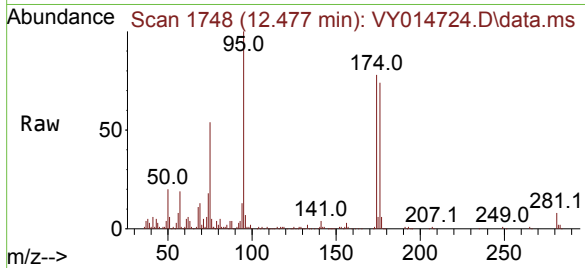




#62
4-Bromofluorobenzene
Concen: 41.306 ug/l
RT: 12.477 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY014724.D
Acq: 20 Jul 2023 16:28

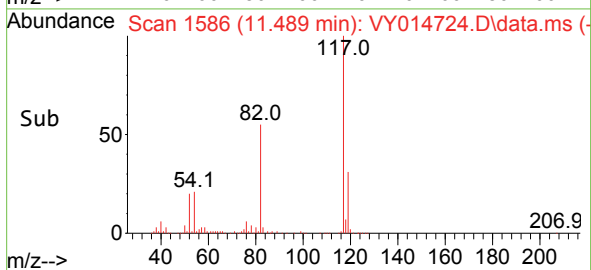
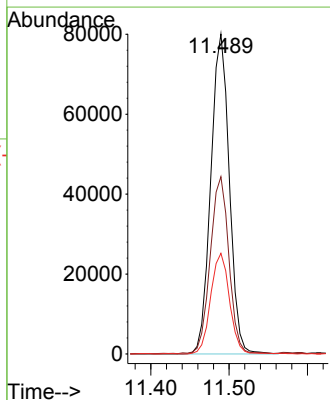
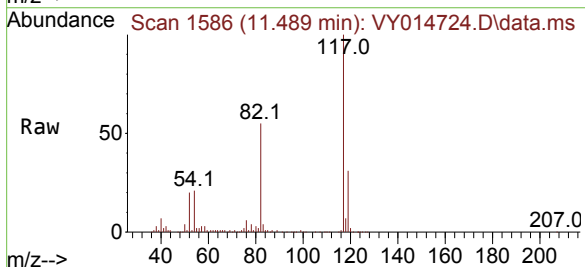
Instrument :
MSVOA_Y
ClientSampleId :
WO-7

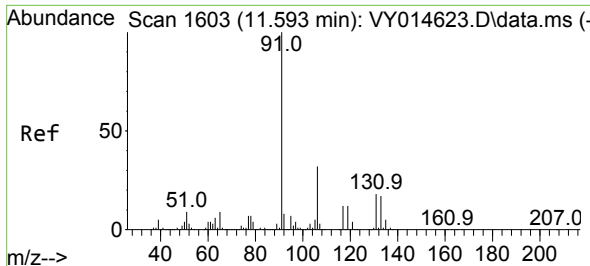
Tgt Ion: 95 Resp: 59608
Ion Ratio Lower Upper
95 100
174 79.1 0.0 178.2
176 77.2 0.0 173.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.489 min Scan# 1586
Delta R.T. 0.000 min
Lab File: VY014724.D
Acq: 20 Jul 2023 16:28

Tgt Ion: 117 Resp: 131307
Ion Ratio Lower Upper
117 100
82 55.3 43.4 65.0
119 31.4 26.3 39.5

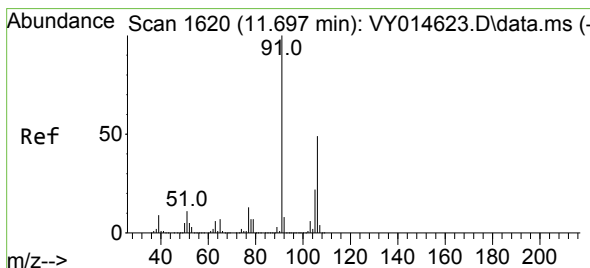
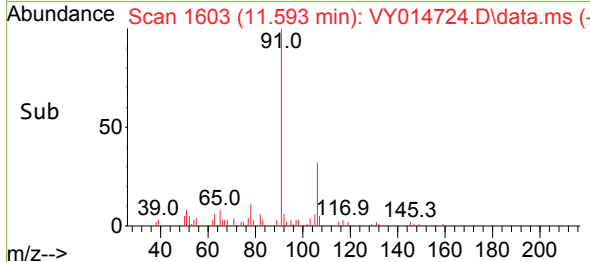
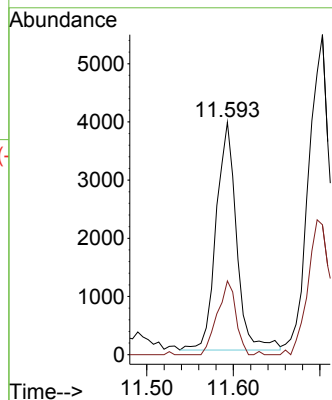
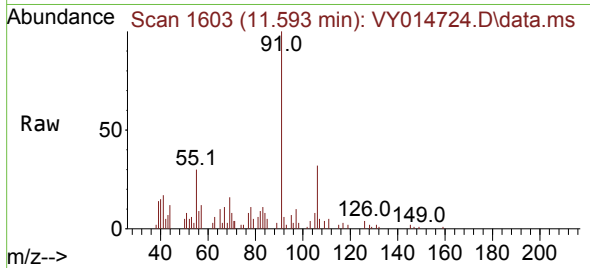




#67
Ethyl Benzene
Concen: 1.273 ug/l
RT: 11.593 min Scan# 1603
Delta R.T. 0.000 min
Lab File: VY014724.D
Acq: 20 Jul 2023 16:28

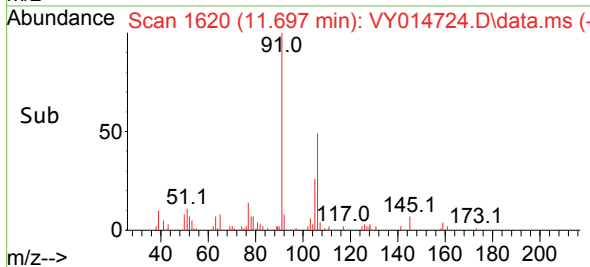
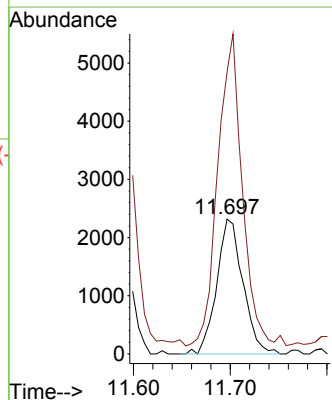
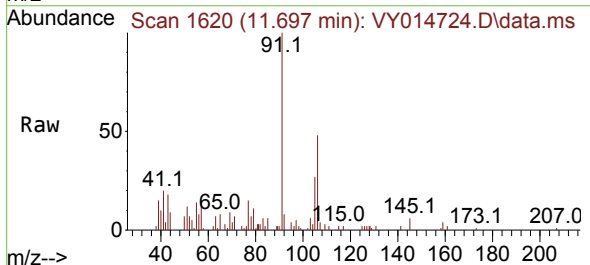
Instrument :
MSVOA_Y
ClientSampleId :
WO-7

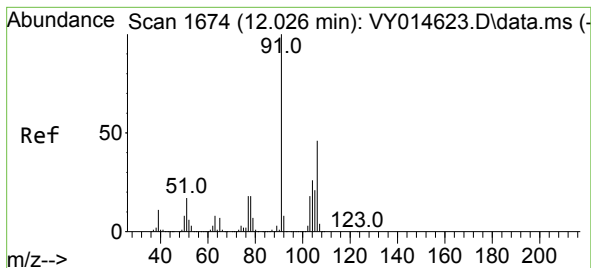
Tgt Ion: 91 Resp: 6431
Ion Ratio Lower Upper
91 100
106 32.4 24.6 36.8



#68
m/p-Xylenes
Concen: 2.259 ug/l
RT: 11.697 min Scan# 1620
Delta R.T. -0.000 min
Lab File: VY014724.D
Acq: 20 Jul 2023 16:28

Tgt Ion: 106 Resp: 4357
Ion Ratio Lower Upper
106 100
91 216.5 166.1 249.1





#69

o-Xylene

Concen: 2.166 ug/l

RT: 12.032 min Scan# 1

Delta R.T. 0.006 min

Lab File: VY014724.D

Acq: 20 Jul 2023 16:28

Instrument :

MSVOA_Y

ClientSampleId :

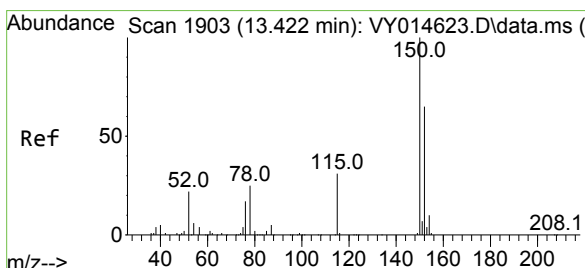
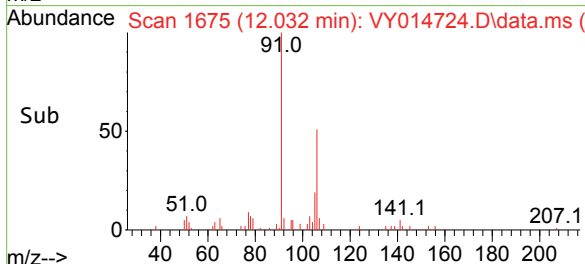
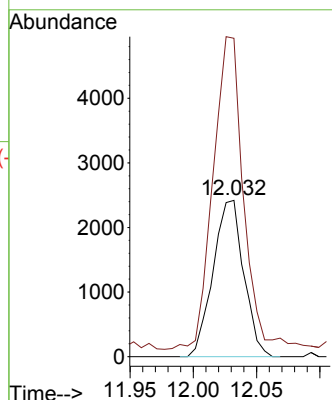
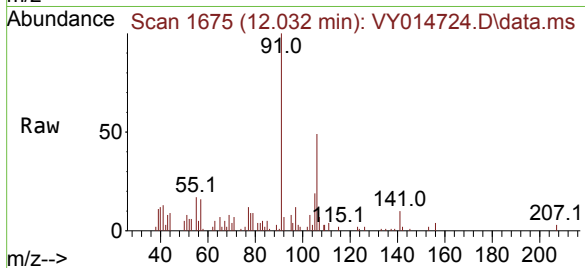
WO-7

Tgt Ion:106 Resp: 4069

Ion Ratio Lower Upper

106 100

91 199.5 108.1 324.3



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.422 min Scan# 1903

Delta R.T. 0.000 min

Lab File: VY014724.D

Acq: 20 Jul 2023 16:28

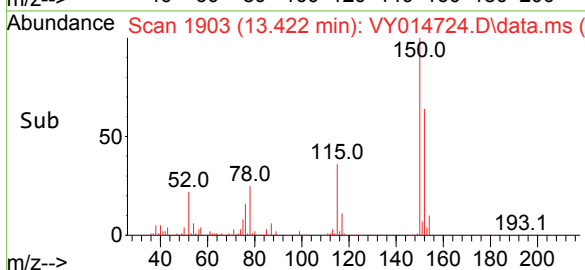
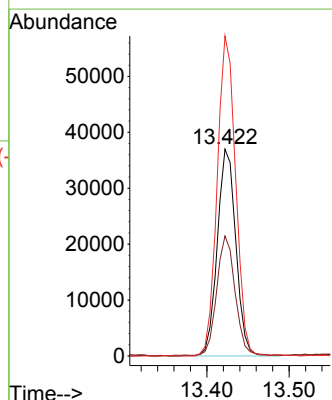
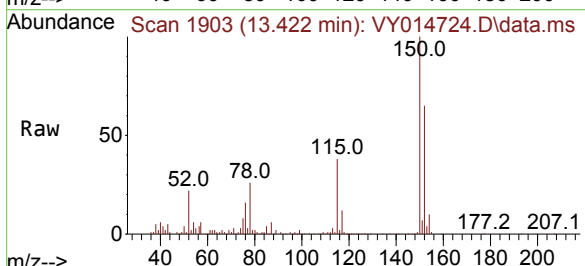
Tgt Ion:152 Resp: 58071

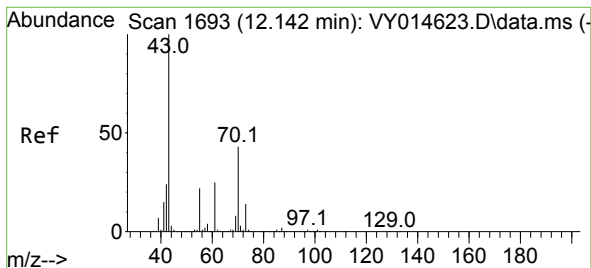
Ion Ratio Lower Upper

152 100

115 56.8 28.8 86.5

150 153.6 0.0 348.8





#74

N-amy1 acetate

Concen: 1.620 ug/l

RT: 12.117 min Scan# 1

Delta R.T. -0.025 min

Lab File: VY014724.D

Acq: 20 Jul 2023 16:28

Instrument :

MSVOA_Y

ClientSampleId :

WO-7

Tgt Ion: 43 Resp: 2467

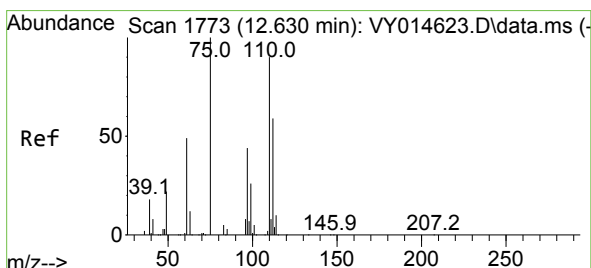
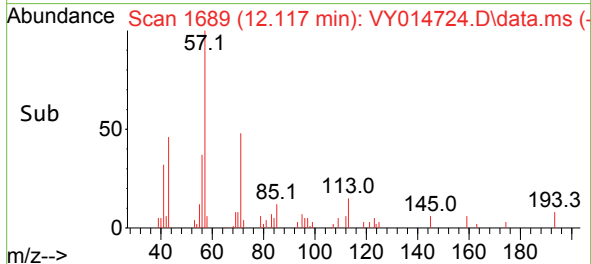
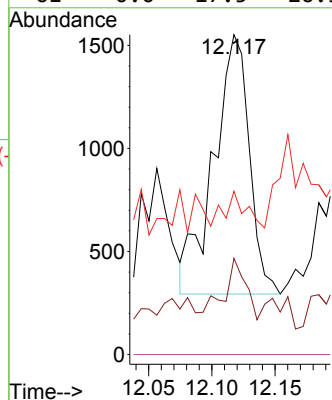
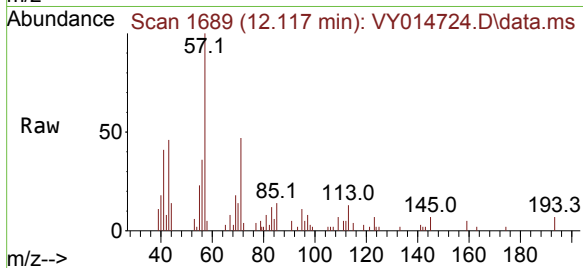
Ion Ratio Lower Upper

43 100

70 14.1 29.7 44.5#

55 0.0 18.3 27.5#

61 0.0 17.5 26.3#



#76

1,2,3-Trichloropropane

Concen: 44.087 ug/l

RT: 12.477 min Scan# 1748

Delta R.T. -0.153 min

Lab File: VY014724.D

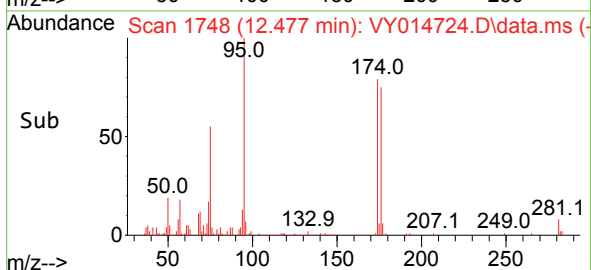
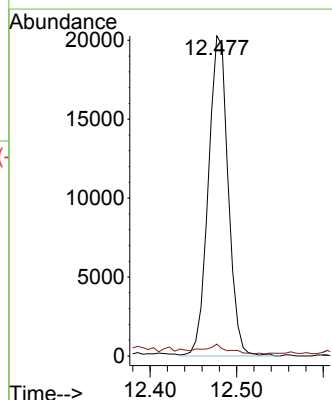
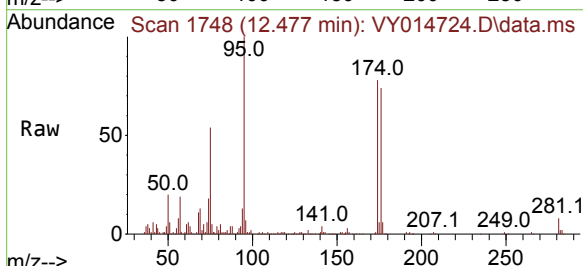
Acq: 20 Jul 2023 16:28

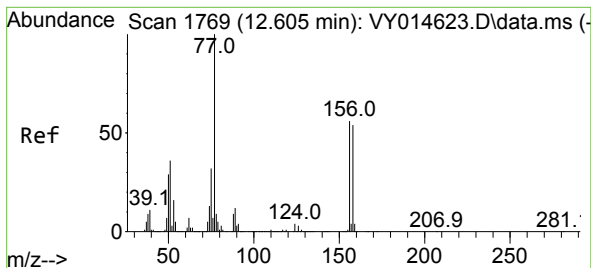
Tgt Ion: 75 Resp: 32334

Ion Ratio Lower Upper

75 100

77 3.5 0.0 0.0#





#77

Bromobenzene

Concen: 4.574 ug/l

RT: 12.367 min Scan# 1770

Delta R.T. -0.238 min

Lab File: VY014724.D

Acq: 20 Jul 2023 16:28

Instrument :

MSVOA_Y

ClientSampleId :

WO-7

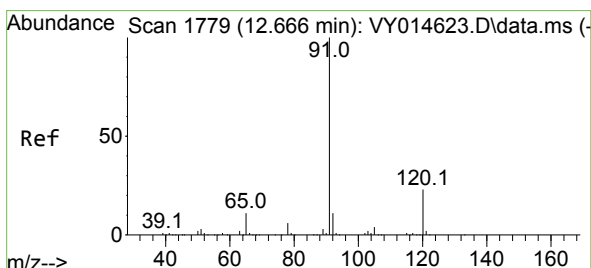
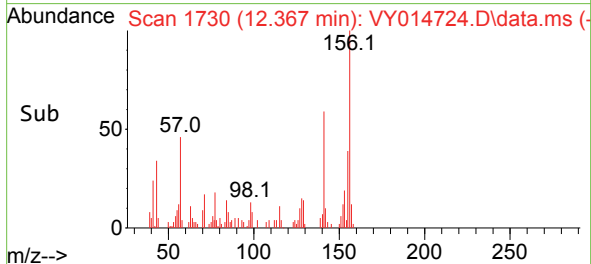
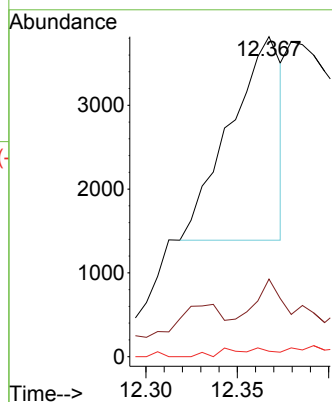
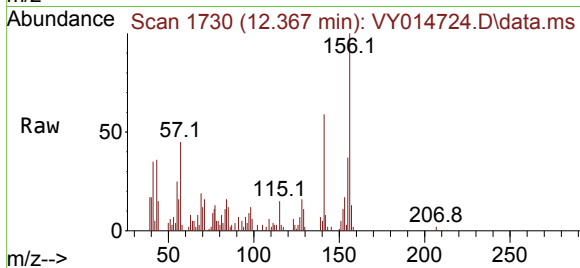
Tgt Ion:156 Resp: 4747

Ion Ratio Lower Upper

156 100

77 23.3 92.8 278.6#

158 0.0 48.4 145.3#



#78

n-propylbenzene

Concen: 3.262 ug/l

RT: 12.672 min Scan# 1780

Delta R.T. 0.006 min

Lab File: VY014724.D

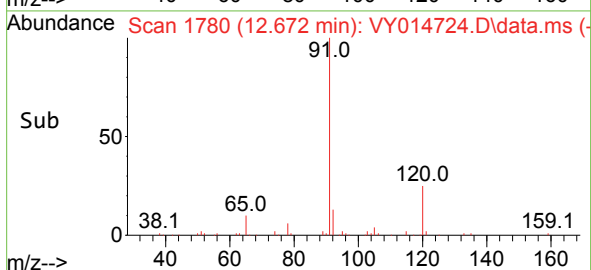
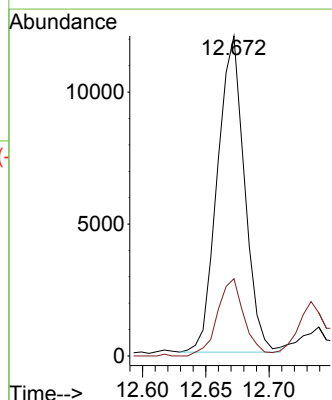
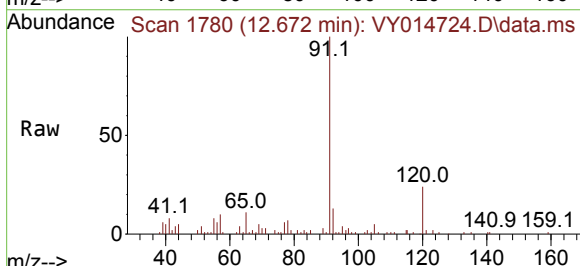
Acq: 20 Jul 2023 16:28

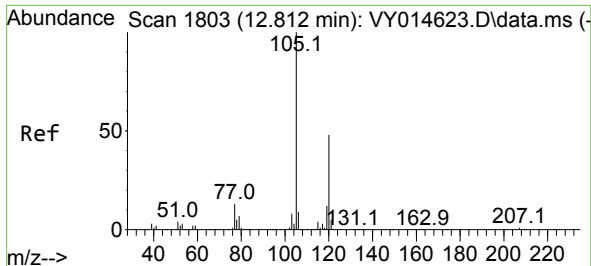
Tgt Ion: 91 Resp: 17873

Ion Ratio Lower Upper

91 100

120 24.1 11.5 34.4

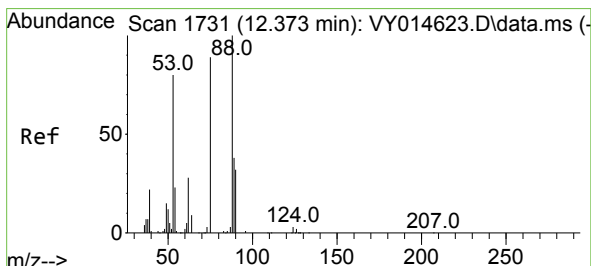
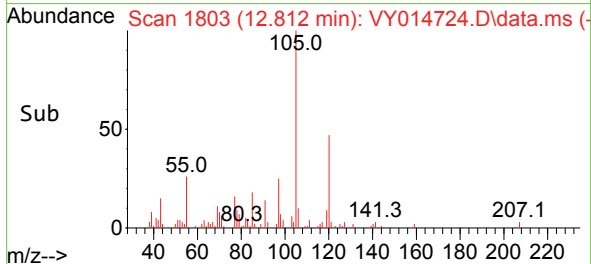
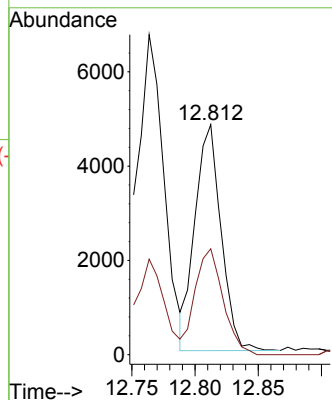
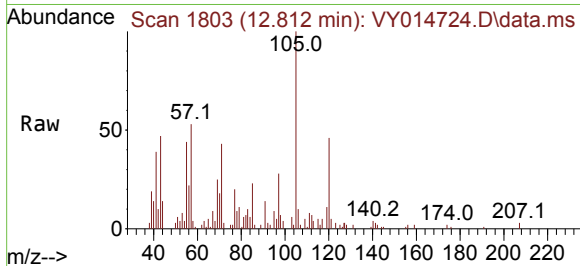




#80
1,3,5-Trimethylbenzene
Concen: 1.814 ug/l
RT: 12.812 min Scan# 11
Delta R.T. 0.000 min
Lab File: VY014724.D
Acq: 20 Jul 2023 16:28

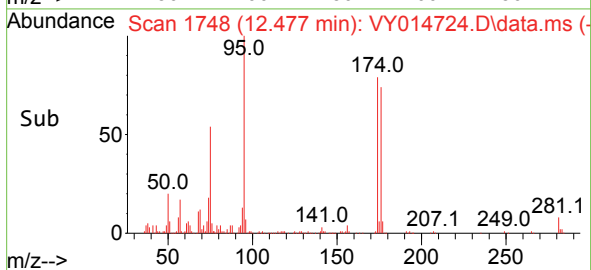
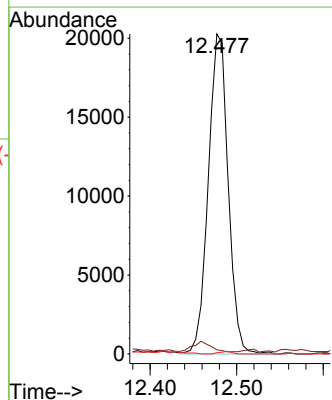
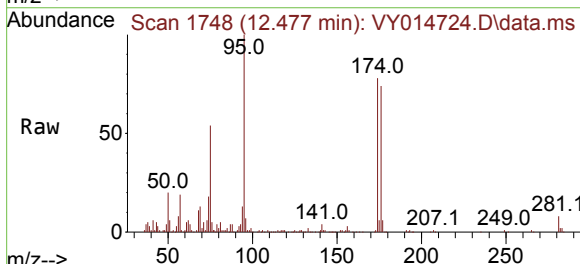
Instrument :
MSVOA_Y
ClientSampleId :
WO-7

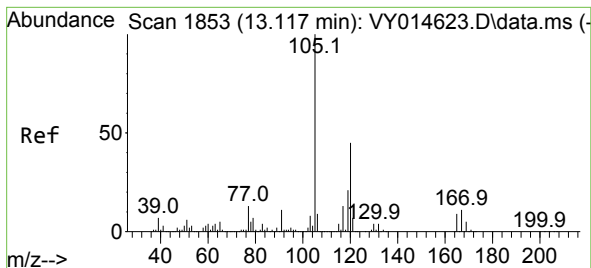
Tgt Ion:105 Resp: 6887
Ion Ratio Lower Upper
105 100
120 50.3 23.9 71.7



#81
trans-1,4-Dichloro-2-butene
Concen: 85.359 ug/l
RT: 12.477 min Scan# 1748
Delta R.T. 0.104 min
Lab File: VY014724.D
Acq: 20 Jul 2023 16:28

Tgt Ion: 75 Resp: 32334
Ion Ratio Lower Upper
75 100
53 0.0 77.8 116.8#
89 0.5 37.4 56.0#





#84

1,2,4-Trimethylbenzene

Concen: 3.586 ug/l

RT: 13.117 min Scan# 1853

Delta R.T. 0.000 min

Lab File: VY014724.D

Acq: 20 Jul 2023 16:28

Instrument :

MSVOA_Y

ClientSampleId :

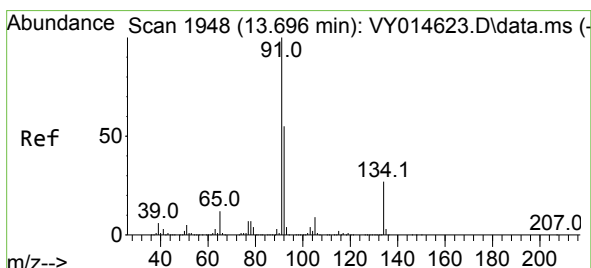
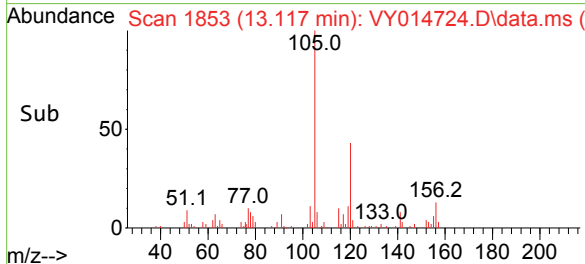
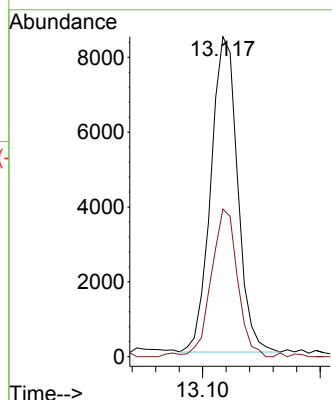
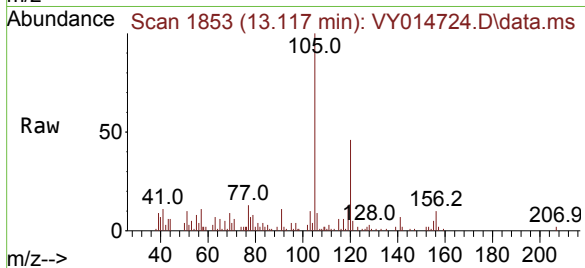
WO-7

Tgt Ion:105 Resp: 13365

Ion Ratio Lower Upper

105 100

120 46.1 22.2 66.6



#89

n-Butylbenzene

Concen: 2.811 ug/l

RT: 13.696 min Scan# 1948

Delta R.T. 0.000 min

Lab File: VY014724.D

Acq: 20 Jul 2023 16:28

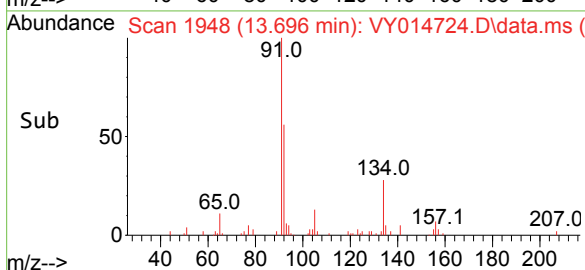
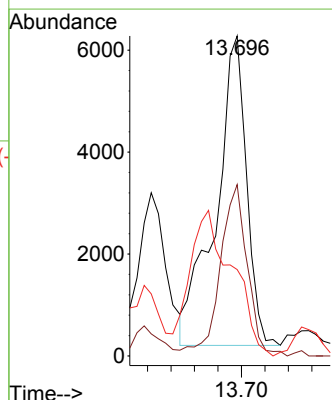
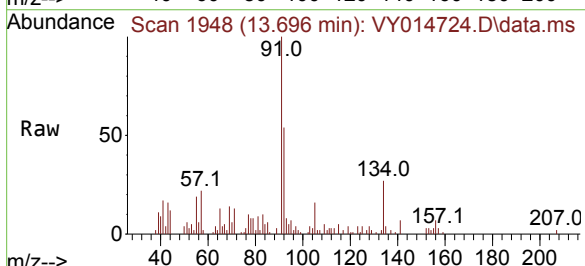
Tgt Ion: 91 Resp: 11035

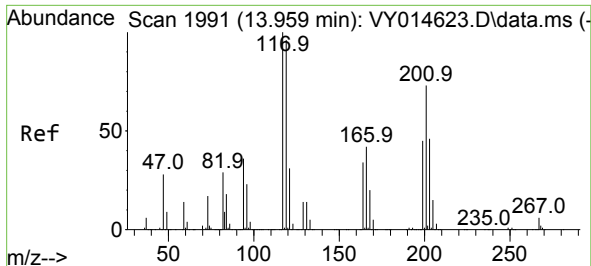
Ion Ratio Lower Upper

91 100

92 48.9 25.4 76.0

134 0.0 12.6 37.6#

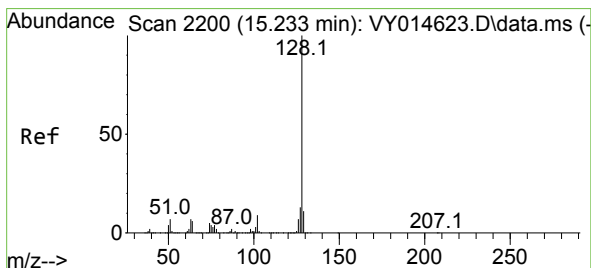
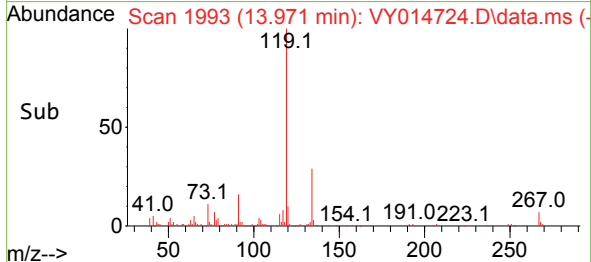
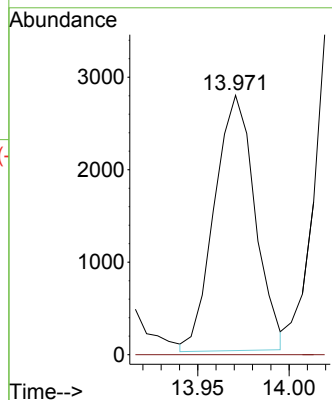
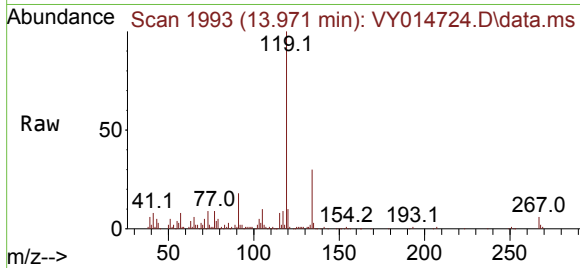




#90
Hexachloroethane
Concen: 5.171 ug/l
RT: 13.971 min Scan# 1993
Delta R.T. 0.012 min
Lab File: VY014724.D
Acq: 20 Jul 2023 16:28

Instrument :
MSVOA_Y
ClientSampleId :
WO-7

Tgt Ion:117 Resp: 4285
Ion Ratio Lower Upper
117 100
201 0.0 41.6 124.8#



#95
Naphthalene
Concen: 30.219 ug/l
RT: 15.233 min Scan# 2200
Delta R.T. -0.000 min
Lab File: VY014724.D
Acq: 20 Jul 2023 16:28

Tgt Ion:128 Resp: 82713
Ion Ratio Lower Upper
128 100
127 14.2 10.8 16.2
129 11.3 8.6 13.0

