

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100623\
 Data File : VY015865.D
 Acq On : 06 Oct 2023 16:22
 Operator : SY/MD
 Sample : 04767-08
 Misc : 5.67g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :

Quant Time: Oct 07 07:28:51 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100523S.M
 Quant Title : SW846 8260
 QLast Update : Fri Oct 06 05:54:04 2023
 Response via : Initial Calibration

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

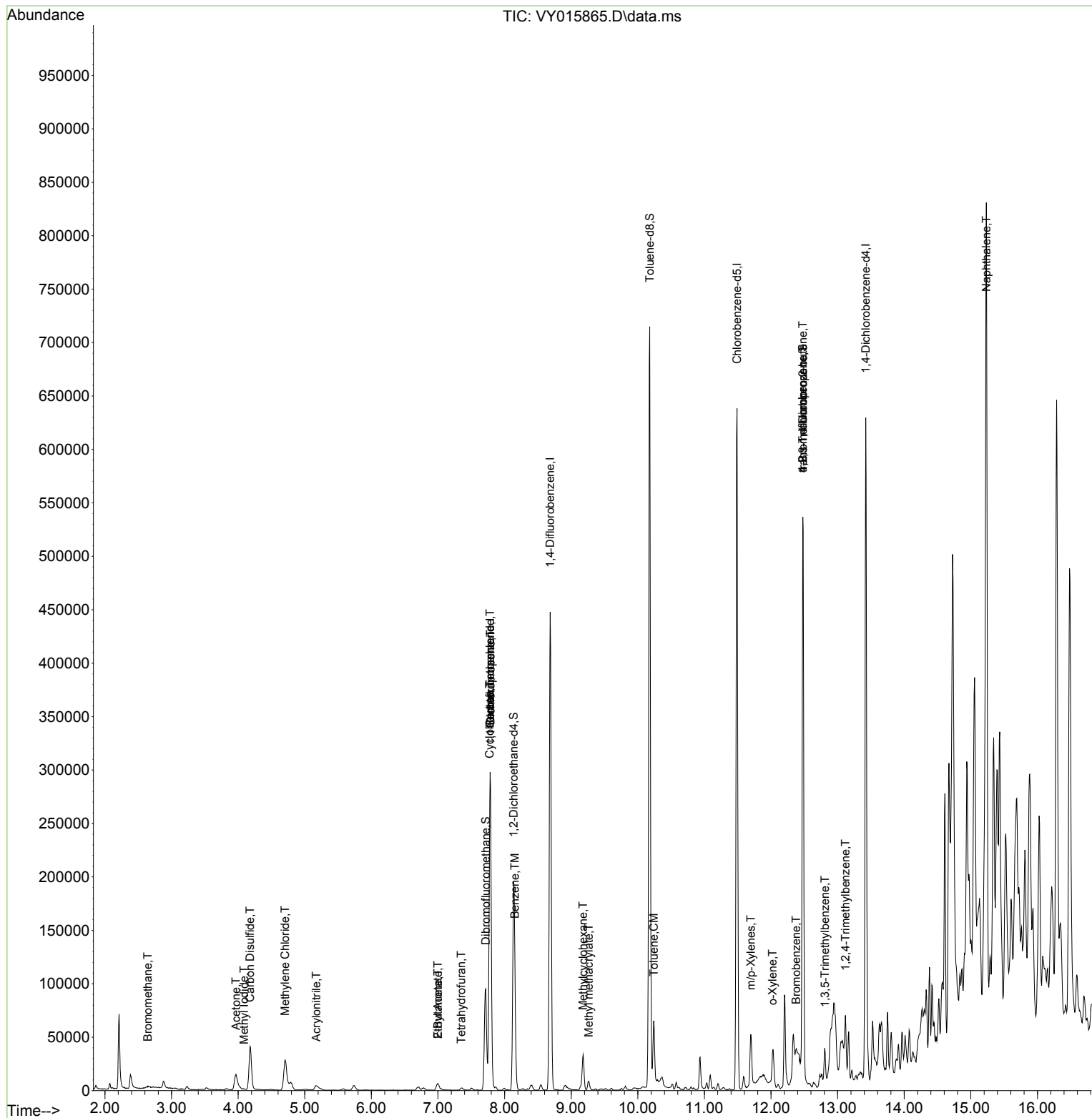
Internal Standards						
1) Pentafluorobenzene	7.783	168	229372	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.685	114	393290	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.489	117	357585	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.422	152	160837	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.136	65	143344	63.521	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 127.040%			
35) Dibromofluoromethane	7.716	113	68841	30.708	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 61.420%			
50) Toluene-d8	10.179	98	464593	63.832	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 127.660%			
62) 4-Bromofluorobenzene	12.477	95	159568	53.635	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 107.280%			
Target Compounds					Qvalue	
5) Bromomethane	2.643	94	429	1.223	ug/l #	74
10) Methyl Iodide	4.088	142	486	3.370	ug/l #	79
11) Tert butyl alcohol	4.978	59	551	Below Cal	#	89
15) Acrylonitrile	5.174	53	6492	6.664	ug/l	99
16) Acetone	3.966	43	33695	28.820	ug/l	95
17) Carbon Disulfide	4.180	76	83669	36.227	ug/l	100
20) Methylene Chloride	4.704	84	22151	2.402	ug/l	90
25) 2-Butanone	6.996	43	8940	5.559	ug/l	97
29) Tetrahydrofuran	7.350	42	2001	2.230	ug/l #	65
31) Cyclohexane	7.777	56	7719	3.035	ug/l #	29
36) 1,1-Dichloropropene	7.789	75	17044	6.373	ug/l #	50
37) Ethyl Acetate	6.996	43	8940	2.987	ug/l #	72
38) Carbon Tetrachloride	7.783	117	22547	7.170	ug/l #	16
39) Methylcyclohexane	9.179	83	13479	4.712	ug/l	99
40) Benzene	8.155	78	30690	3.657	ug/l	100
48) Methyl methacrylate	9.264	41	2666	1.185	ug/l #	41
52) Toluene	10.240	92	22982	4.185	ug/l	100
68) m/p-Xylenes	11.697	106	14781	3.435	ug/l	100
69) o-Xylene	12.026	106	8639	2.019	ug/l	95
76) 1,2,3-Trichloropropane	12.477	75	83141	34.919	ug/l #	100
77) Bromobenzene	12.380	156	59302	23.008	ug/l #	1
80) 1,3,5-Trimethylbenzene	12.812	105	10183	1.173	ug/l	97
81) trans-1,4-Dichloro-2-b...	12.477	75	83141	80.834	ug/l #	11
84) 1,2,4-Trimethylbenzene	13.117	105	23547	2.699	ug/l	95
95) Naphthalene	15.233	128	556836	66.016	ug/l	98

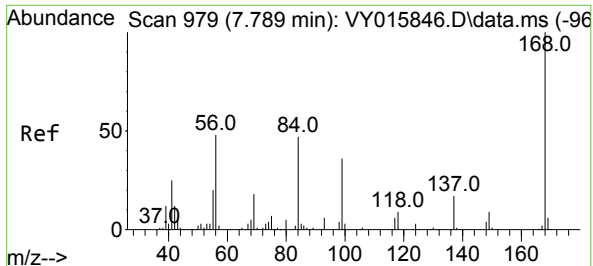
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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MSVOA_Y
ClientSampleId :

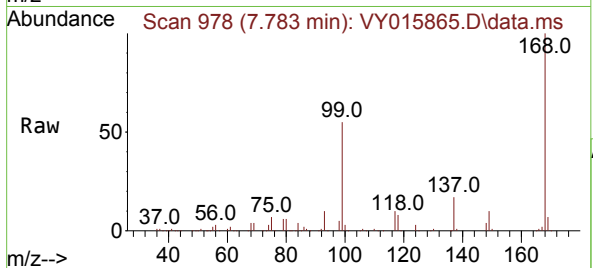
Quant Time: Oct 07 07:28:51 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100523S.M
Quant Title : SW846 8260
QLast Update : Fri Oct 06 05:54:04 2023
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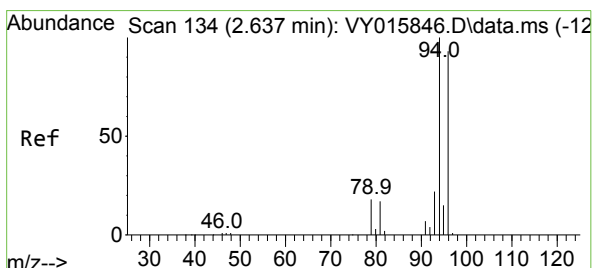
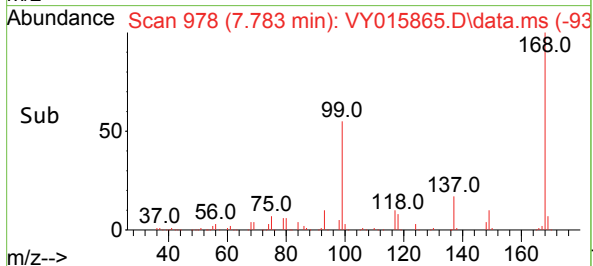
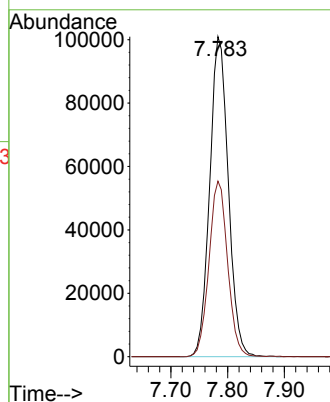


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.783 min Scan# 91
Delta R.T. -0.006 min
Lab File: VY015865.D
Acq: 06 Oct 2023 16:22

Instrument :
MSVOA_Y
ClientSampleId :

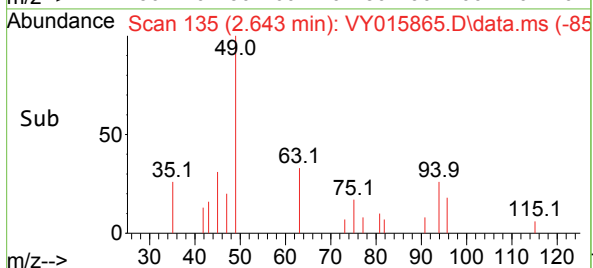
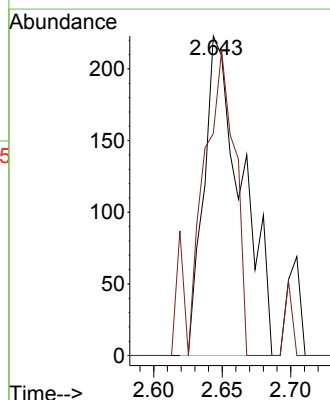
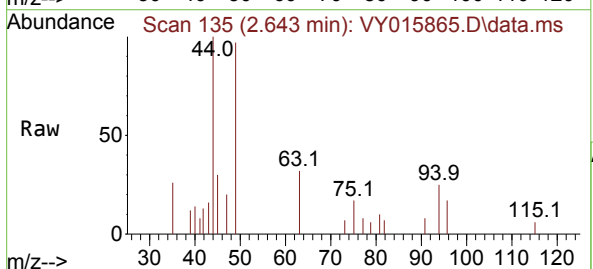


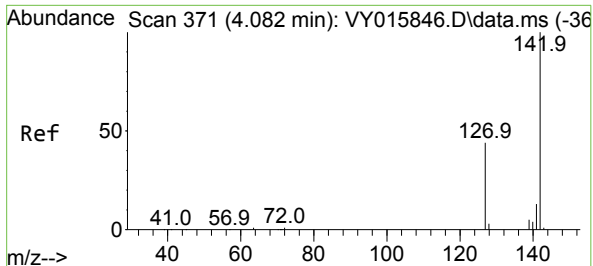
Tgt Ion:168 Resp: 229372
Ion Ratio Lower Upper
168 100
99 54.8 43.4 65.0



#5
Bromomethane
Concen: 1.223 ug/l
RT: 2.643 min Scan# 135
Delta R.T. 0.006 min
Lab File: VY015865.D
Acq: 06 Oct 2023 16:22

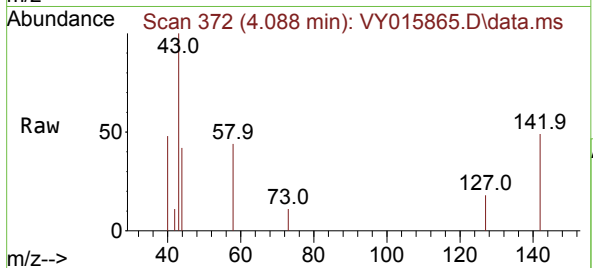
Tgt Ion: 94 Resp: 429
Ion Ratio Lower Upper
94 100
96 69.5 75.8 113.6#



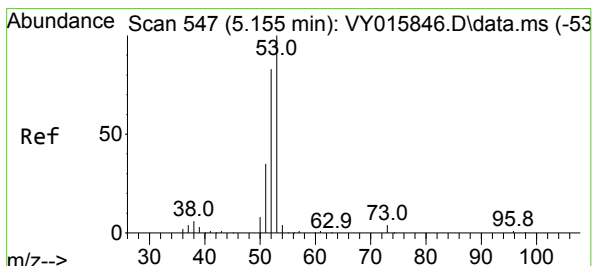
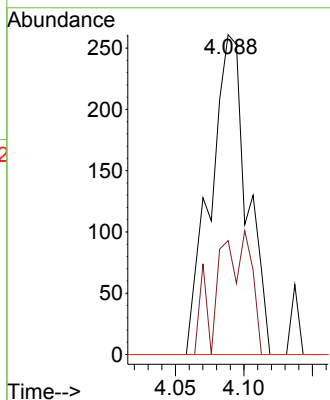
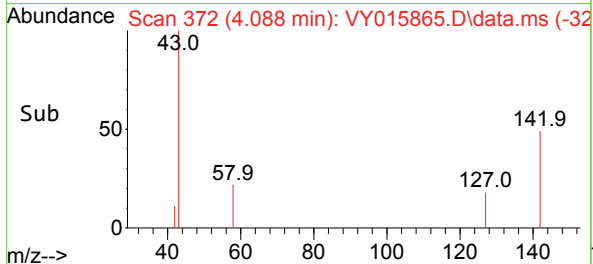


#10
Methyl Iodide
Concen: 3.370 ug/l
RT: 4.088 min Scan# 31
Delta R.T. 0.006 min
Lab File: VY015865.D
Acq: 06 Oct 2023 16:22

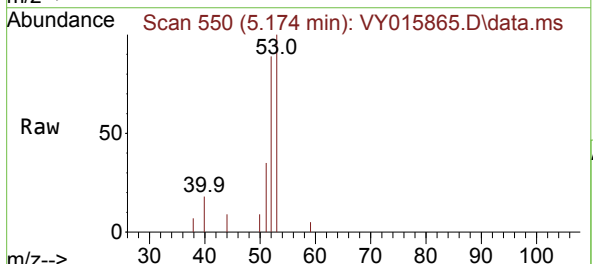
Instrument :
MSVOA_Y
ClientSampleId :



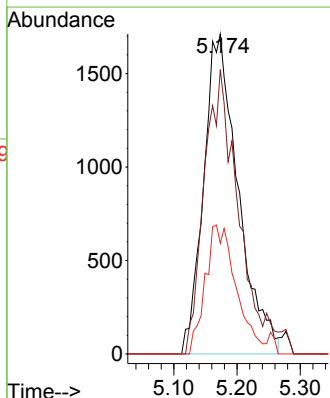
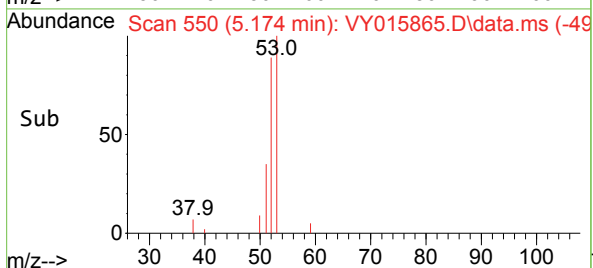
Tgt Ion:142 Resp: 486
Ion Ratio Lower Upper
142 100
127 36.2 37.6 56.4#
141 0.0 11.8 17.8#

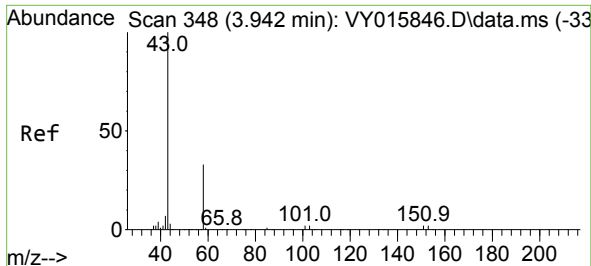


#15
Acrylonitrile
Concen: 6.664 ug/l
RT: 5.174 min Scan# 550
Delta R.T. 0.018 min
Lab File: VY015865.D
Acq: 06 Oct 2023 16:22



Tgt Ion: 53 Resp: 6492
Ion Ratio Lower Upper
53 100
52 84.3 66.9 100.3
51 36.0 29.8 44.6





#16

Acetone

Concen: 28.820 ug/l

RT: 3.966 min Scan# 3

Delta R.T. 0.024 min

Lab File: VY015865.D

Acq: 06 Oct 2023 16:22

Instrument :

MSVOA_Y

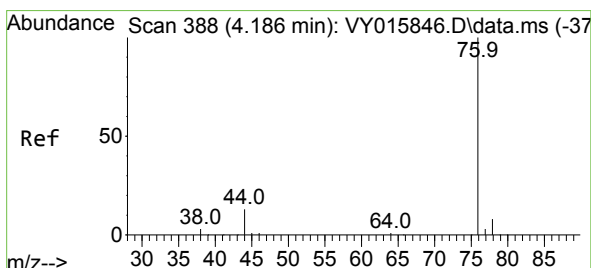
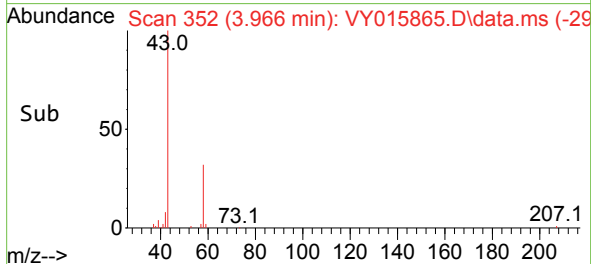
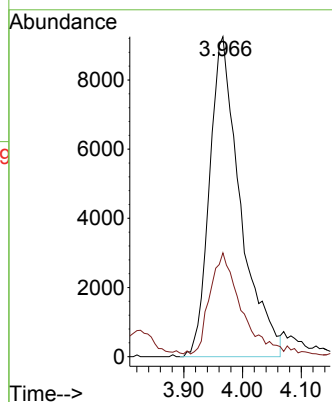
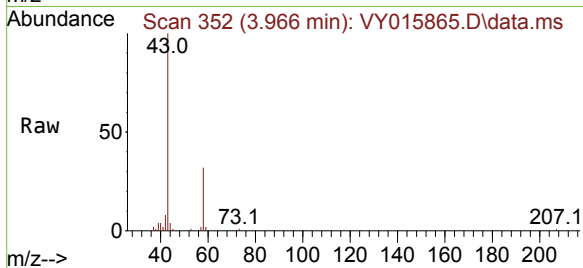
ClientSampleId :

Tgt Ion: 43 Resp: 33695

Ion Ratio Lower Upper

43 100

58 31.3 22.7 34.1



#17

Carbon Disulfide

Concen: 36.227 ug/l

RT: 4.180 min Scan# 387

Delta R.T. -0.006 min

Lab File: VY015865.D

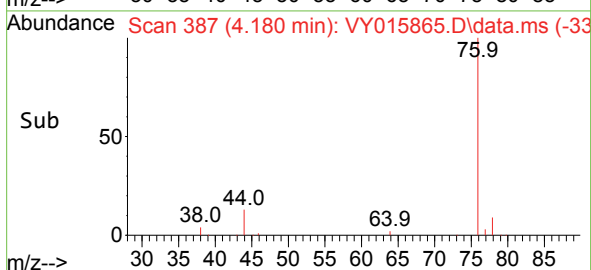
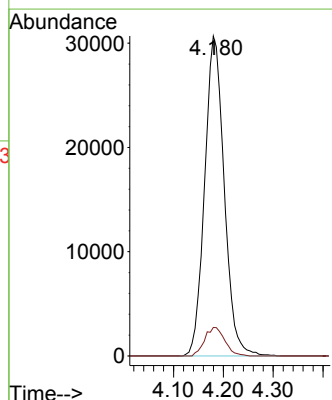
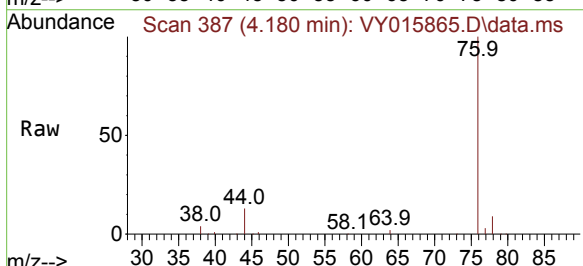
Acq: 06 Oct 2023 16:22

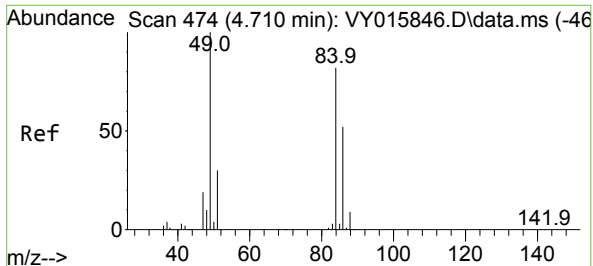
Tgt Ion: 76 Resp: 83669

Ion Ratio Lower Upper

76 100

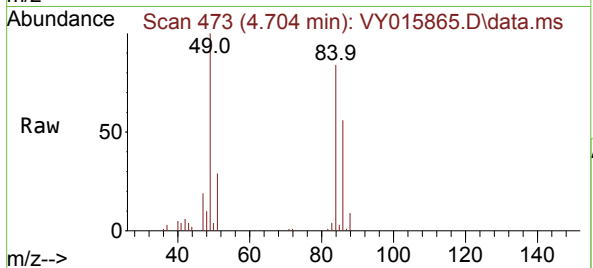
78 8.9 7.0 10.4





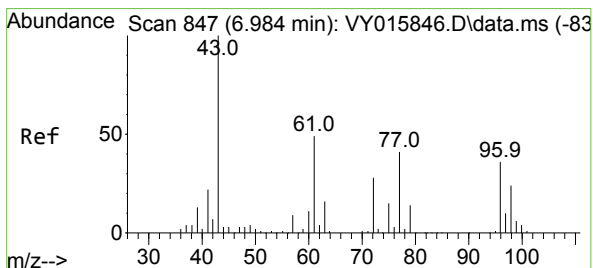
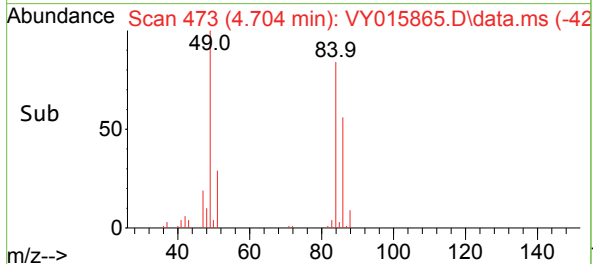
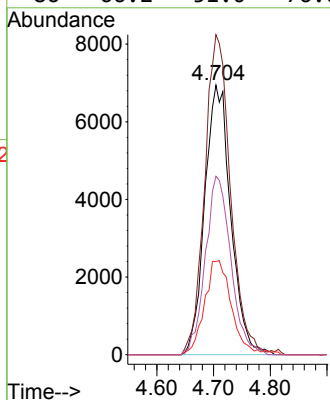
#20
Methylene Chloride
Concen: 2.402 ug/l
RT: 4.704 min Scan# 41
Delta R.T. -0.006 min
Lab File: VY015865.D
Acq: 06 Oct 2023 16:22

Instrument :
MSVOA_Y
ClientSampleId :



Tgt Ion: 84 Resp: 22151

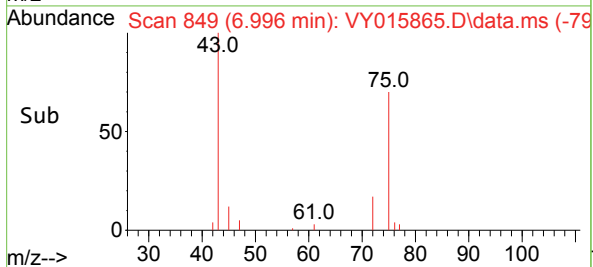
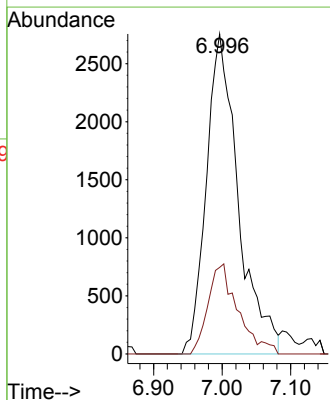
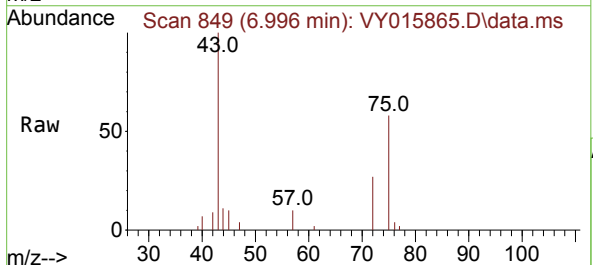
Ion	Ratio	Lower	Upper
84	100		
49	118.8	106.9	160.3
51	34.6	33.2	49.8
86	66.2	51.0	76.6

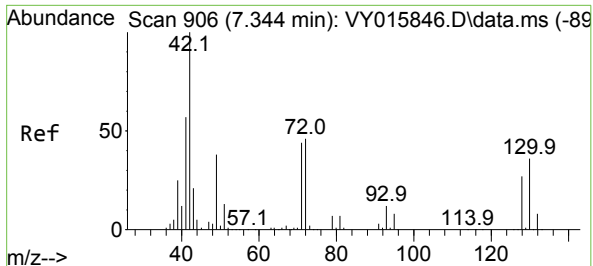


#25
2-Butanone
Concen: 5.559 ug/l
RT: 6.996 min Scan# 849
Delta R.T. 0.012 min
Lab File: VY015865.D
Acq: 06 Oct 2023 16:22

Tgt Ion: 43 Resp: 8940

Ion	Ratio	Lower	Upper
43	100		
72	27.0	20.5	30.7





#29

Tetrahydrofuran

Concen: 2.230 ug/l

RT: 7.350 min Scan# 906

Delta R.T. 0.006 min

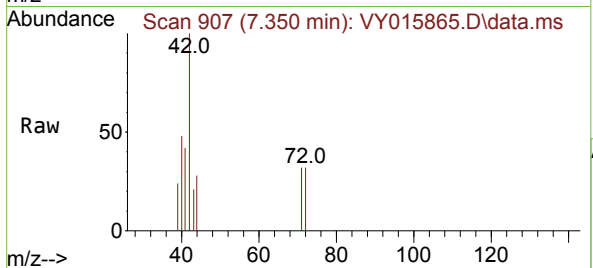
Lab File: VY015865.D

Acq: 06 Oct 2023 16:22

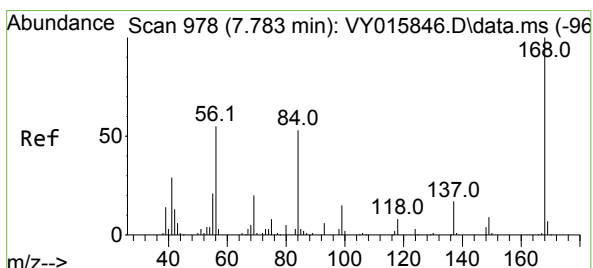
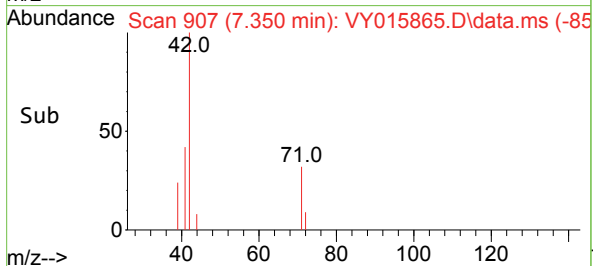
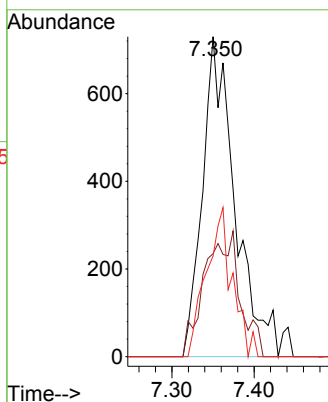
Instrument :

MSVOA_Y

ClientSampleId :



Tgt Ion:	42	Resp:	2001
Ion	Ratio	Lower	Upper
42	100		
72	0.0	32.8	49.2#
71	37.3	31.0	46.4



#31

Cyclohexane

Concen: 3.035 ug/l

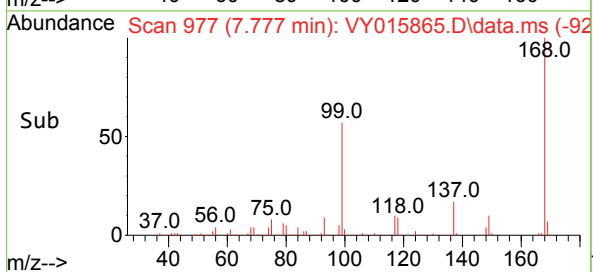
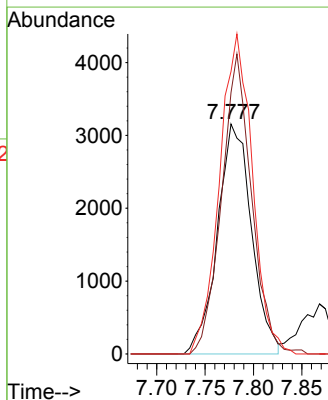
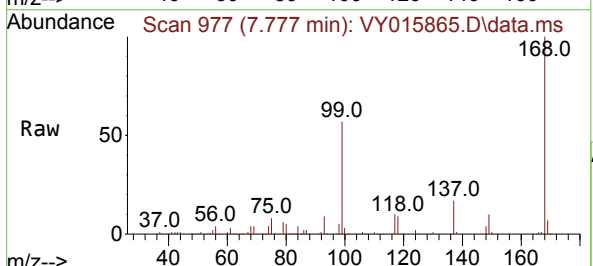
RT: 7.777 min Scan# 977

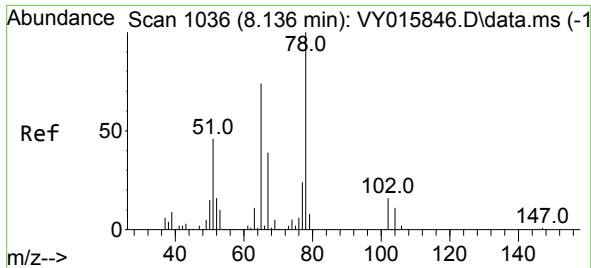
Delta R.T. -0.006 min

Lab File: VY015865.D

Acq: 06 Oct 2023 16:22

Tgt Ion:	56	Resp:	7719
Ion	Ratio	Lower	Upper
56	100		
69	113.6	27.8	41.6#
84	122.8	66.4	99.6#

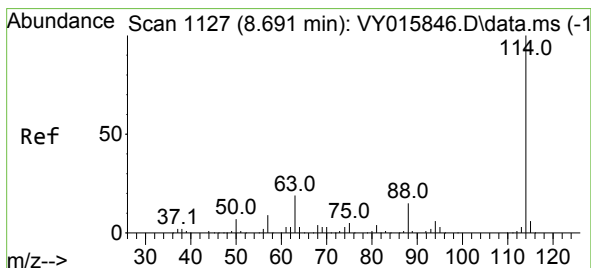
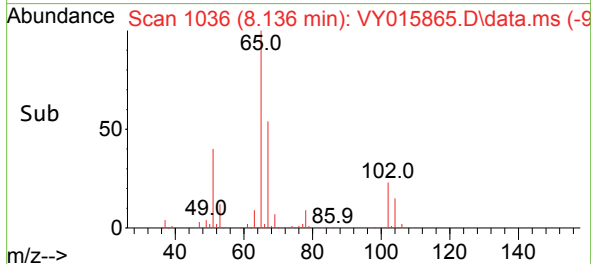
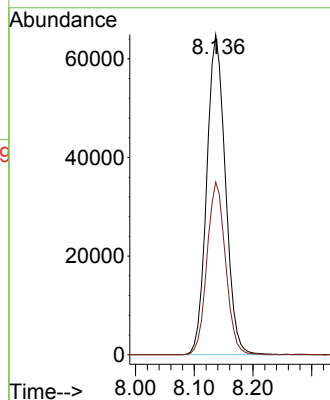
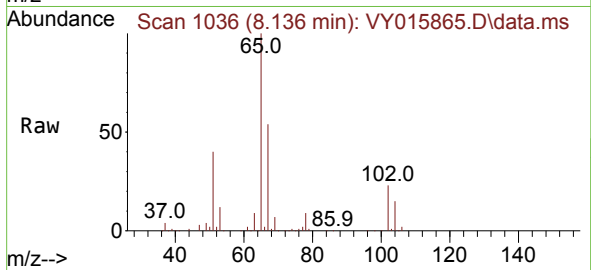




#33
1,2-Dichloroethane-d4
Concen: 63.521 ug/l
RT: 8.136 min Scan# 1036
Delta R.T. 0.000 min
Lab File: VY015865.D
Acq: 06 Oct 2023 16:22

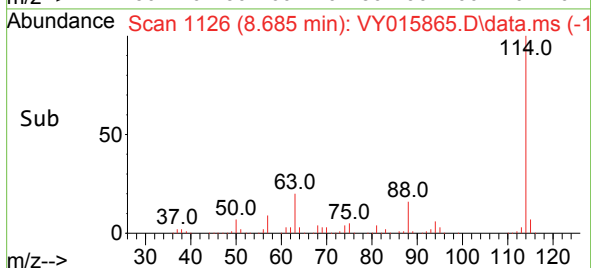
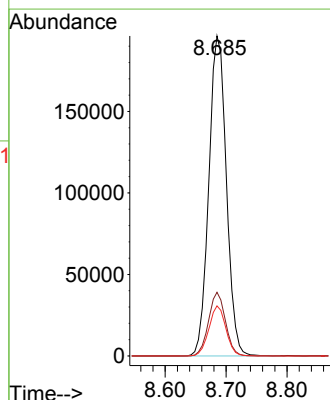
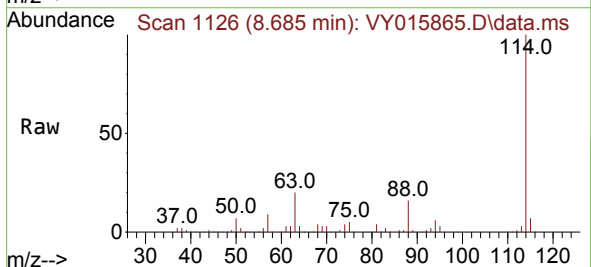
Instrument :
MSVOA_Y
ClientSampleId :

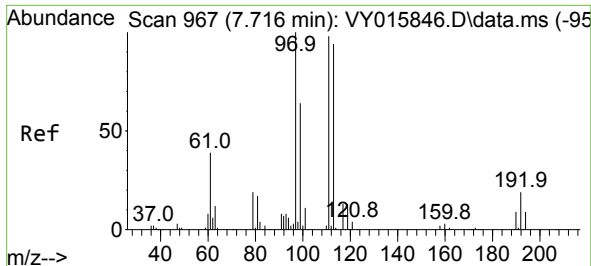
Tgt Ion: 65 Resp: 143344
Ion Ratio Lower Upper
65 100
67 53.6 0.0 101.8



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.685 min Scan# 1126
Delta R.T. -0.006 min
Lab File: VY015865.D
Acq: 06 Oct 2023 16:22

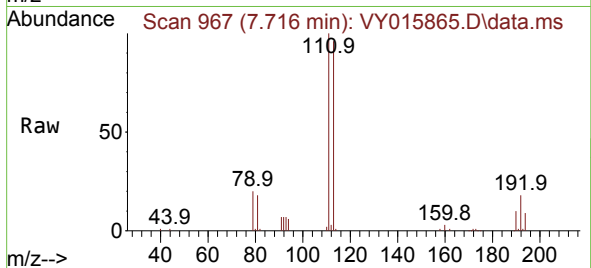
Tgt Ion:114 Resp: 393290
Ion Ratio Lower Upper
114 100
63 19.9 0.0 42.4
88 15.7 0.0 30.6



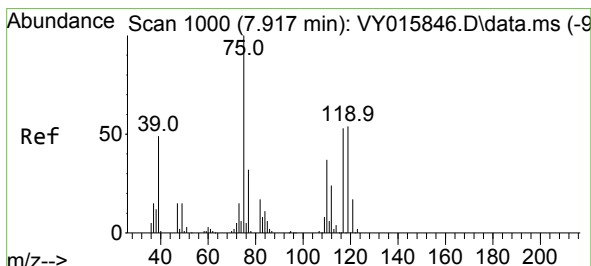
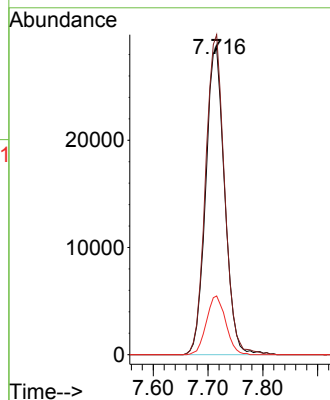
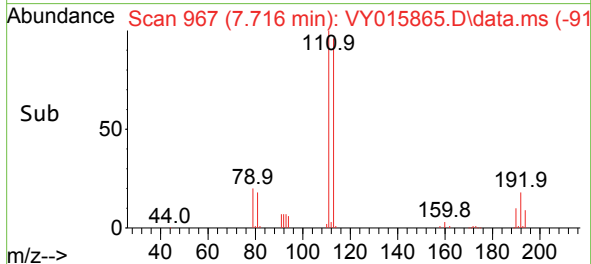


#35
Dibromofluoromethane
Concen: 30.708 ug/l
RT: 7.716 min Scan# 910
Delta R.T. 0.000 min
Lab File: VY015865.D
Acq: 06 Oct 2023 16:22

Instrument :
MSVOA_Y
ClientSampleId :

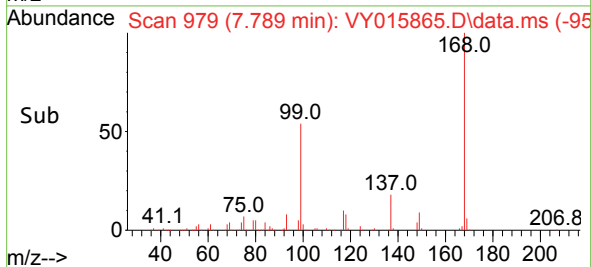
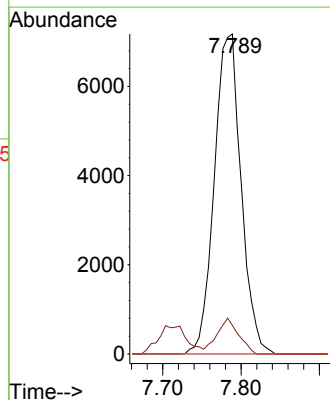
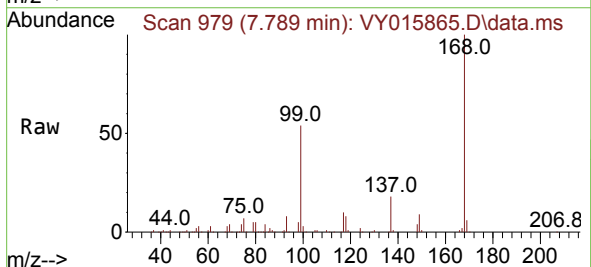


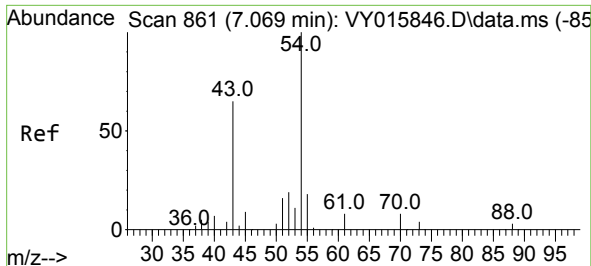
Tgt Ion:113 Resp: 68841
Ion Ratio Lower Upper
113 100
111 104.3 81.3 121.9
192 19.5 16.9 25.3



#36
1,1-Dichloropropene
Concen: 6.373 ug/l
RT: 7.789 min Scan# 979
Delta R.T. -0.128 min
Lab File: VY015865.D
Acq: 06 Oct 2023 16:22

Tgt Ion: 75 Resp: 17044
Ion Ratio Lower Upper
75 100
110 9.0 17.8 53.5#
77 0.0 24.4 36.6#





#37

Ethyl Acetate

Concen: 2.987 ug/l

RT: 6.996 min Scan# 84

Delta R.T. -0.073 min

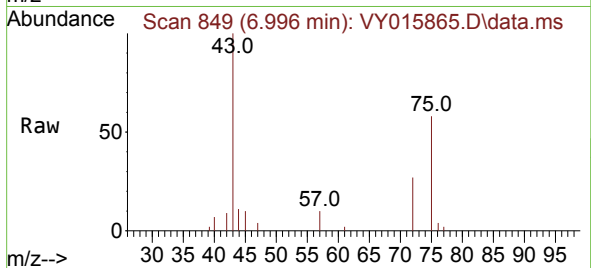
Lab File: VY015865.D

Acq: 06 Oct 2023 16:22

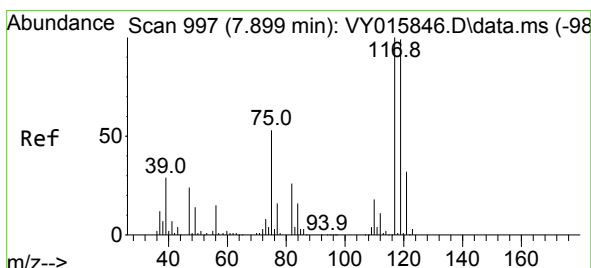
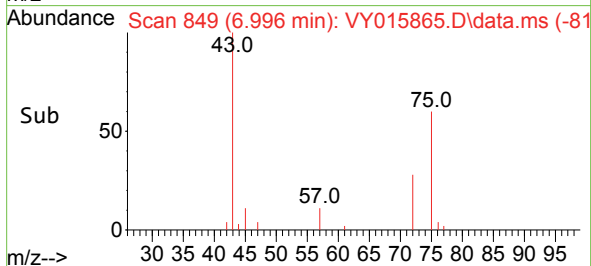
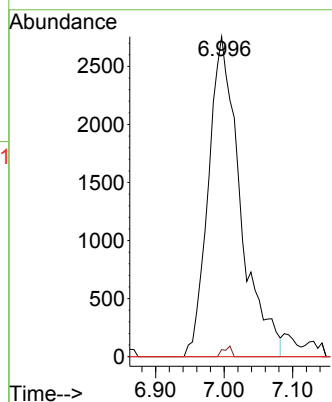
Instrument :

MSVOA_Y

ClientSampleId :



Tgt Ion:	43	Resp:	8940
Ion	Ratio	Lower	Upper
43	100		
61	0.8	10.1	15.1#
70	0.0	7.1	10.7#



#38

Carbon Tetrachloride

Concen: 7.170 ug/l

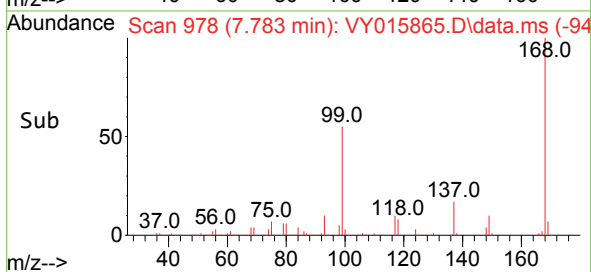
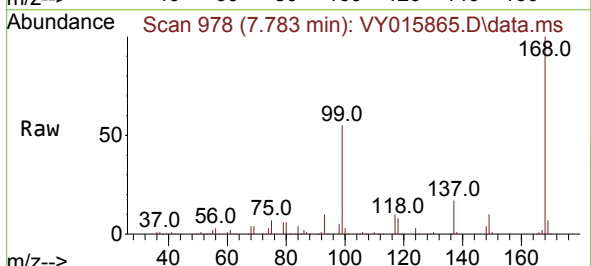
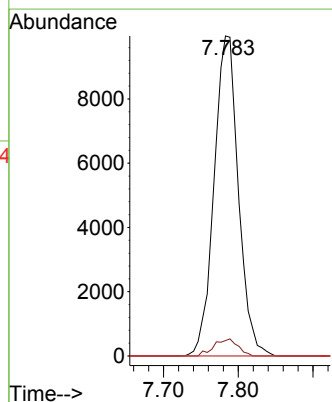
RT: 7.783 min Scan# 978

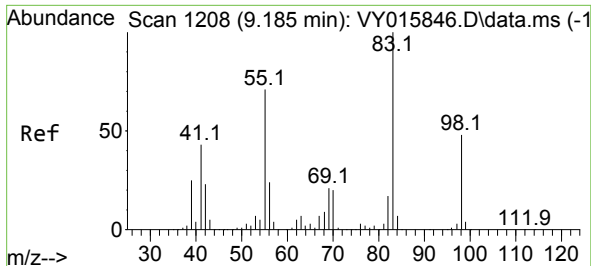
Delta R.T. -0.116 min

Lab File: VY015865.D

Acq: 06 Oct 2023 16:22

Tgt Ion:	117	Resp:	22547
Ion	Ratio	Lower	Upper
117	100		
119	4.8	76.4	114.6#
121	0.0	25.8	38.6#





#39

Methylcyclohexane

Concen: 4.712 ug/l

RT: 9.179 min Scan# 11

Delta R.T. -0.006 min

Lab File: VY015865.D

Acq: 06 Oct 2023 16:22

Instrument :

MSVOA_Y

ClientSampleId :

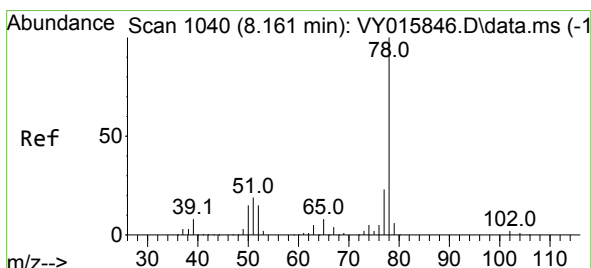
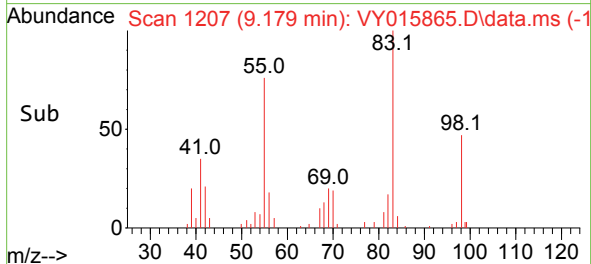
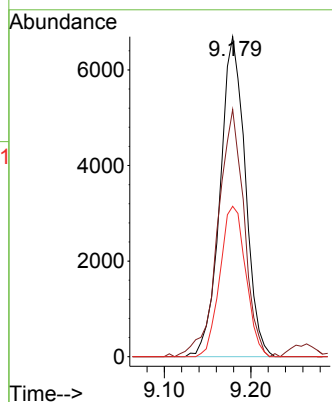
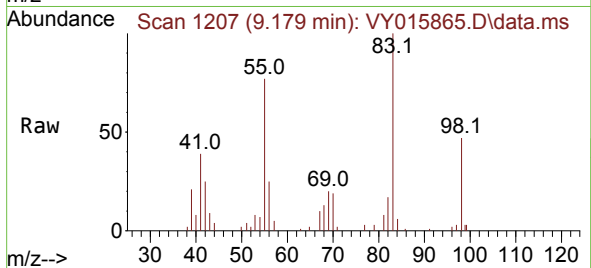
Tgt Ion: 83 Resp: 13479

Ion Ratio Lower Upper

83 100

55 77.2 63.0 94.4

98 47.0 37.4 56.2



#40

Benzene

Concen: 3.657 ug/l

RT: 8.155 min Scan# 1039

Delta R.T. -0.006 min

Lab File: VY015865.D

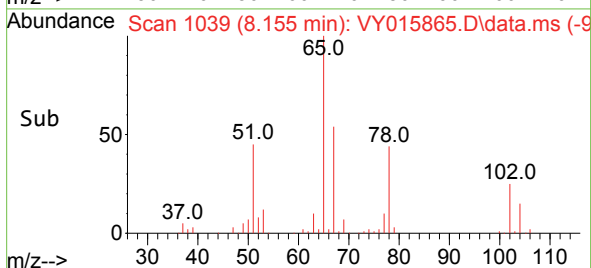
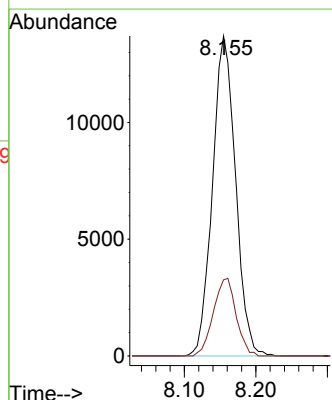
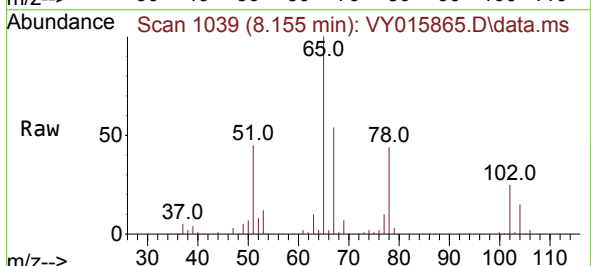
Acq: 06 Oct 2023 16:22

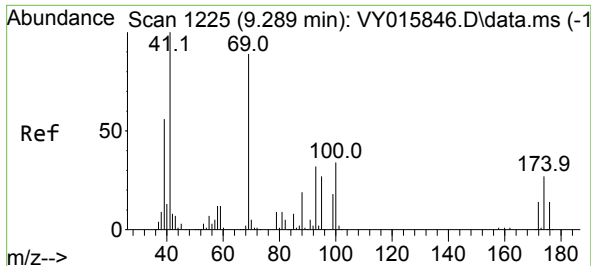
Tgt Ion: 78 Resp: 30690

Ion Ratio Lower Upper

78 100

77 23.8 19.0 28.6

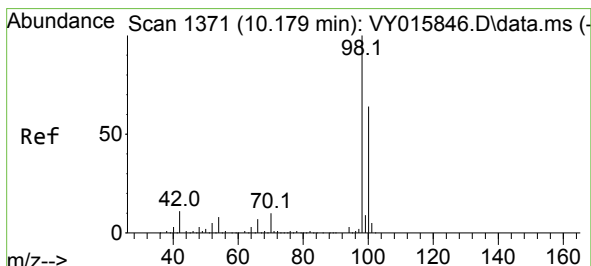
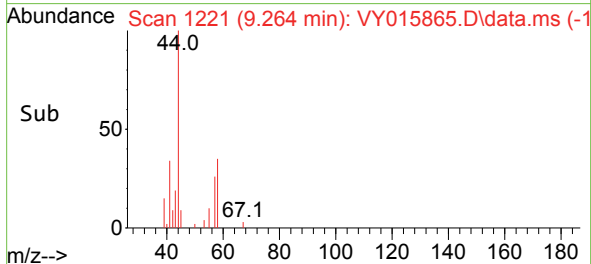
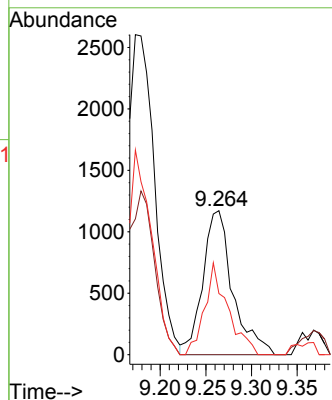
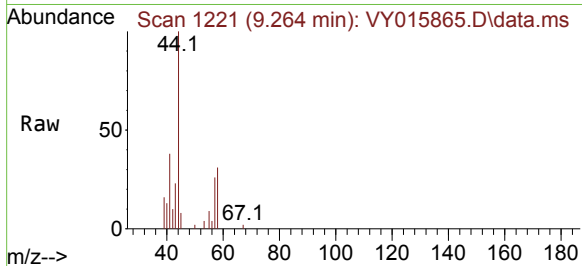




#48
Methyl methacrylate
Concen: 1.185 ug/l
RT: 9.264 min Scan# 1221
Delta R.T. -0.024 min
Lab File: VY015865.D
Acq: 06 Oct 2023 16:22

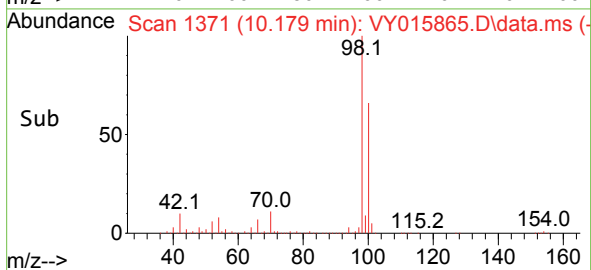
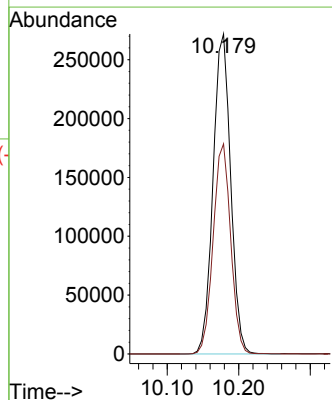
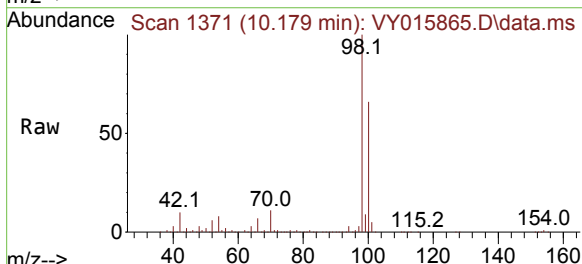
Instrument :
MSVOA_Y
ClientSampleId :

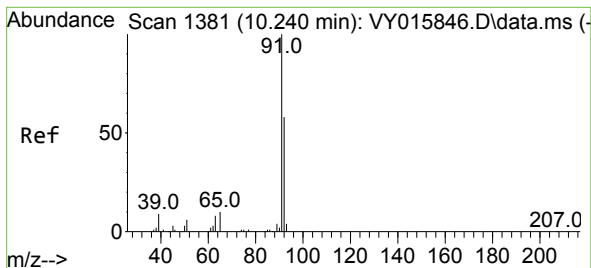
Tgt Ion: 41 Resp: 2666
Ion Ratio Lower Upper
41 100
69 0.0 64.5 96.7#
39 49.4 50.8 76.2#



#50
Toluene-d8
Concen: 63.832 ug/l
RT: 10.179 min Scan# 1371
Delta R.T. 0.000 min
Lab File: VY015865.D
Acq: 06 Oct 2023 16:22

Tgt Ion: 98 Resp: 464593
Ion Ratio Lower Upper
98 100
100 65.3 50.1 75.1





#52

Toluene

Concen: 4.185 ug/l

RT: 10.240 min Scan# 1

Delta R.T. 0.000 min

Lab File: VY015865.D

Acq: 06 Oct 2023 16:22

Instrument :

MSVOA_Y

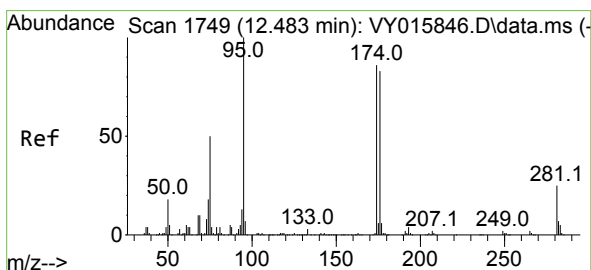
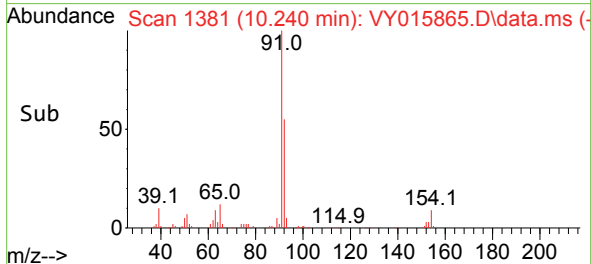
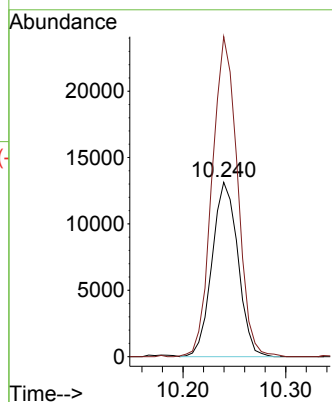
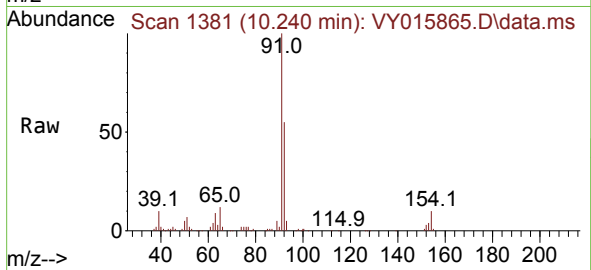
ClientSampleId :

Tgt Ion: 92 Resp: 22982

Ion Ratio Lower Upper

92 100

91 179.4 143.8 215.6



#62

4-Bromofluorobenzene

Concen: 53.635 ug/l

RT: 12.477 min Scan# 1748

Delta R.T. -0.006 min

Lab File: VY015865.D

Acq: 06 Oct 2023 16:22

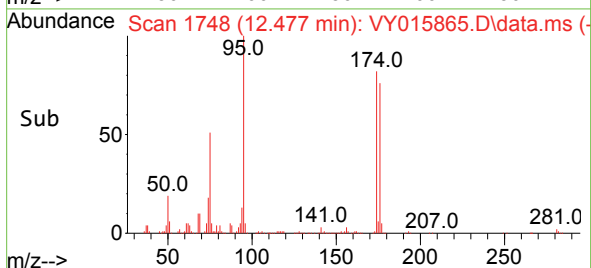
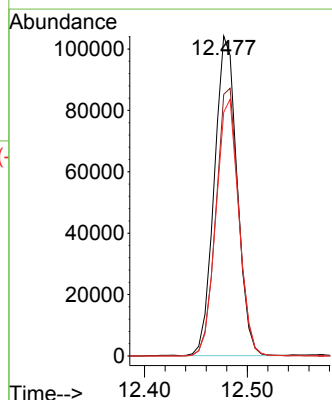
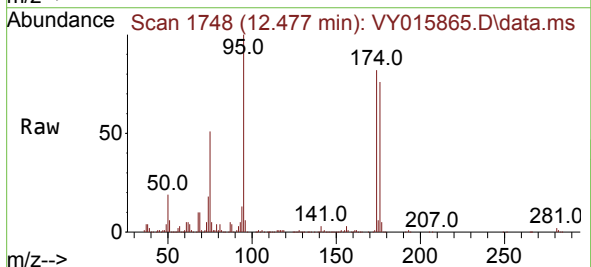
Tgt Ion: 95 Resp: 159568

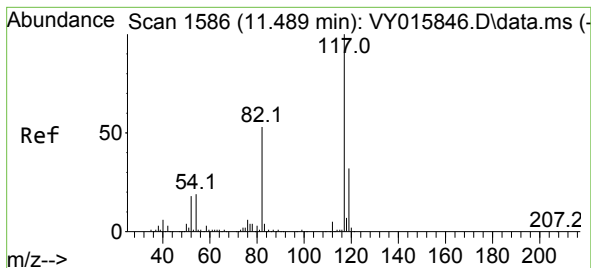
Ion Ratio Lower Upper

95 100

174 84.1 0.0 178.2

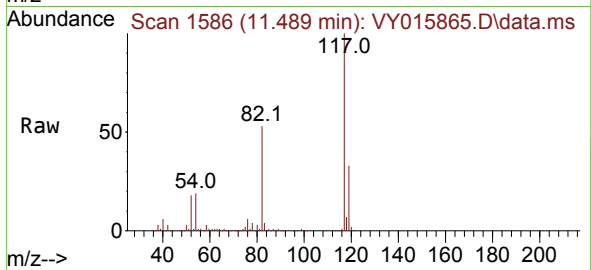
176 80.8 0.0 173.8



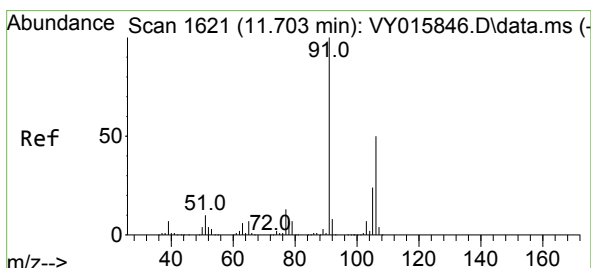
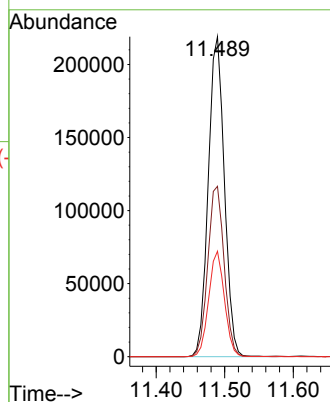
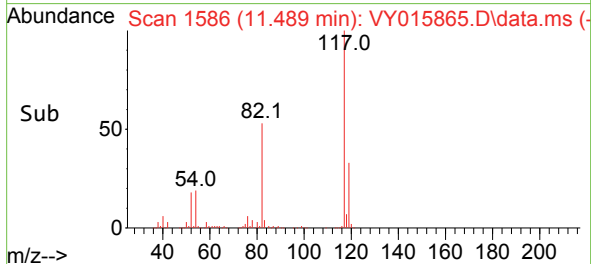


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.489 min Scan# 11
Delta R.T. 0.000 min
Lab File: VY015865.D
Acq: 06 Oct 2023 16:22

Instrument :
MSVOA_Y
ClientSampleId :

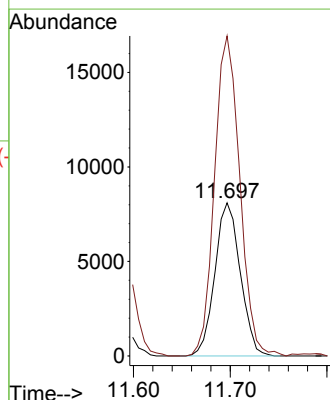
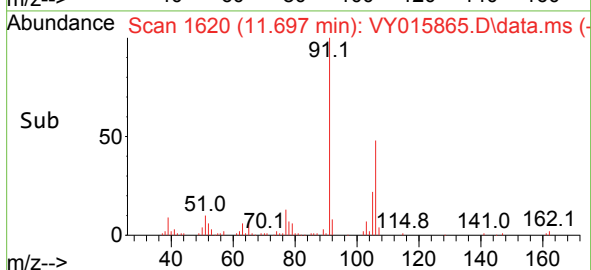
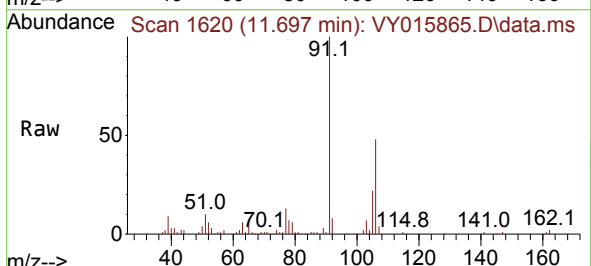


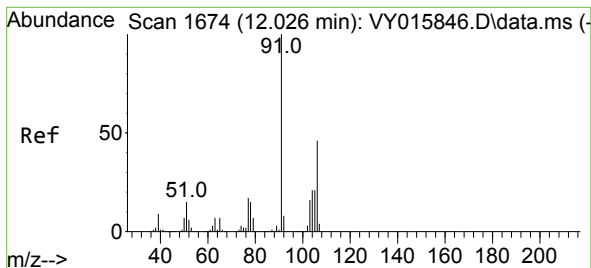
Tgt Ion:117 Resp: 357585
Ion Ratio Lower Upper
117 100
82 53.3 43.4 65.0
119 32.9 26.3 39.5



#68
m/p-Xylenes
Concen: 3.435 ug/l
RT: 11.697 min Scan# 1620
Delta R.T. -0.006 min
Lab File: VY015865.D
Acq: 06 Oct 2023 16:22

Tgt Ion:106 Resp: 14781
Ion Ratio Lower Upper
106 100
91 207.6 166.1 249.1





#69

o-Xylene

Concen: 2.019 ug/l

RT: 12.026 min Scan# 1

Delta R.T. 0.000 min

Lab File: VY015865.D

Acq: 06 Oct 2023 16:22

Instrument :

MSVOA_Y

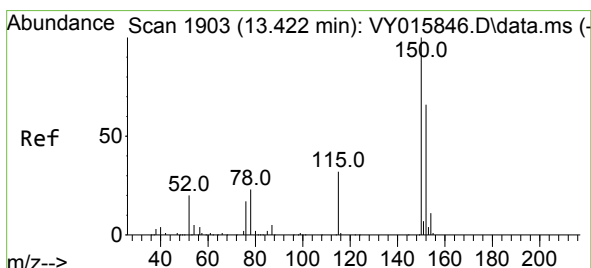
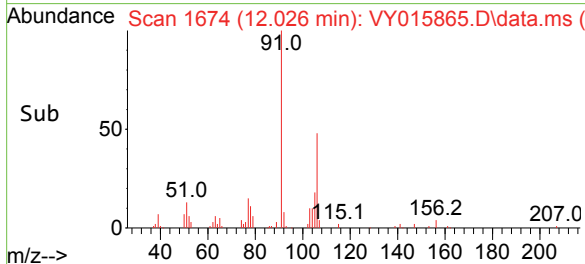
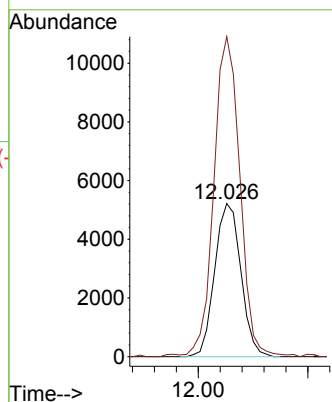
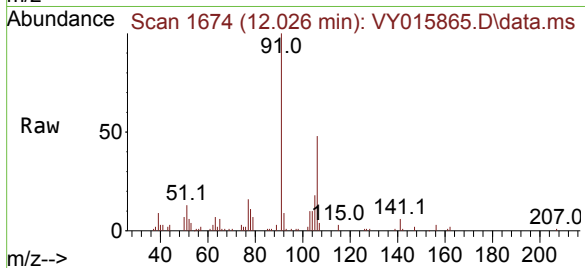
ClientSampleId :

Tgt Ion:106 Resp: 8639

Ion Ratio Lower Upper

106 100

91 208.9 108.1 324.3



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.422 min Scan# 1903

Delta R.T. 0.000 min

Lab File: VY015865.D

Acq: 06 Oct 2023 16:22

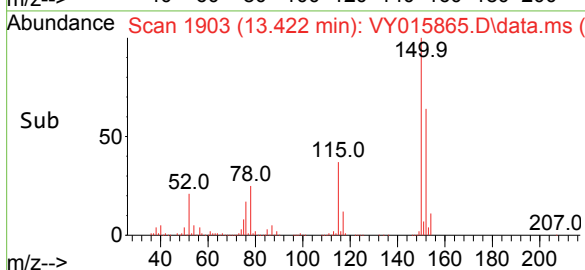
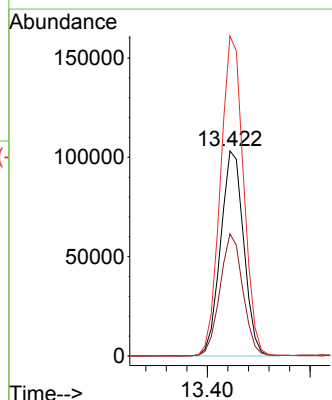
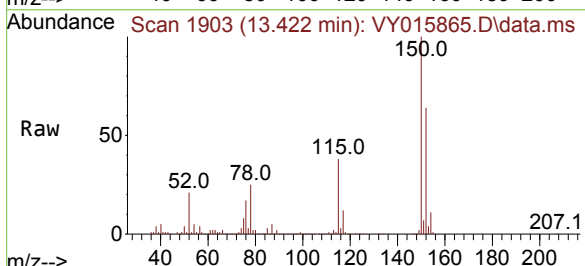
Tgt Ion:152 Resp: 160837

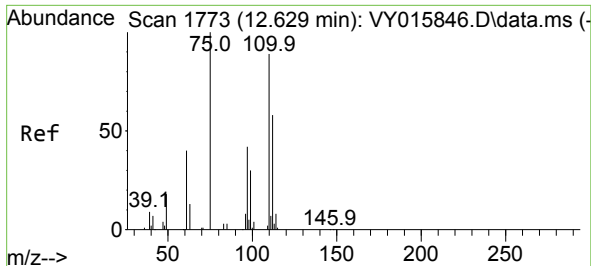
Ion Ratio Lower Upper

152 100

115 58.7 28.8 86.5

150 156.1 0.0 348.8

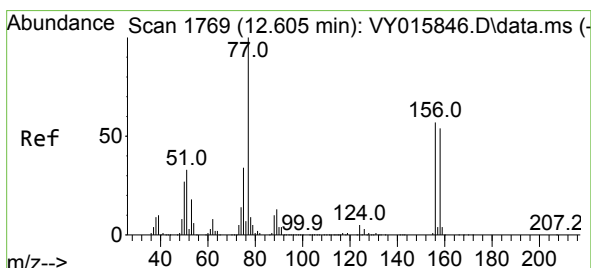
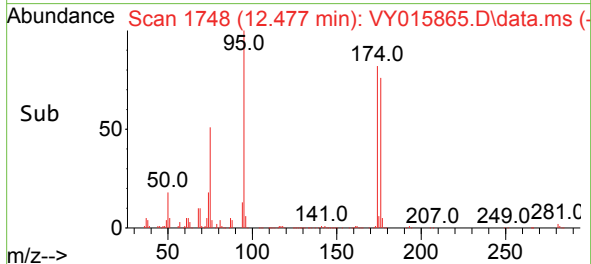
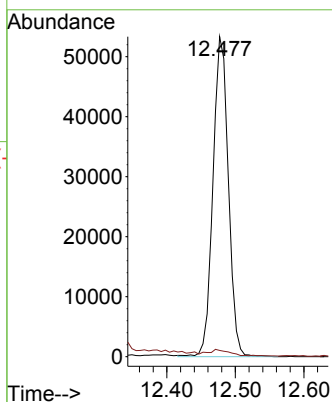
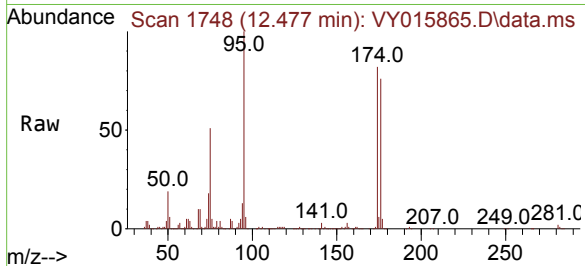




#76
1,2,3-Trichloropropane
Concen: 34.919 ug/l
RT: 12.477 min Scan# 11
Delta R.T. -0.152 min
Lab File: VY015865.D
Acq: 06 Oct 2023 16:22

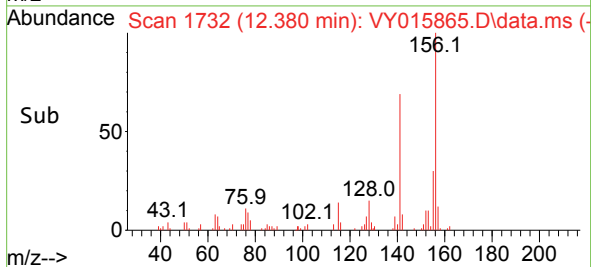
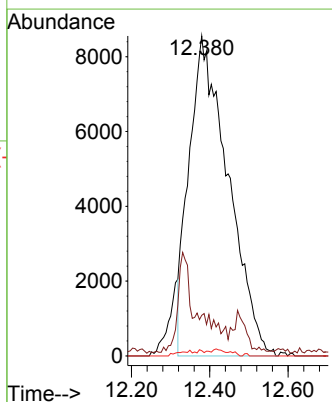
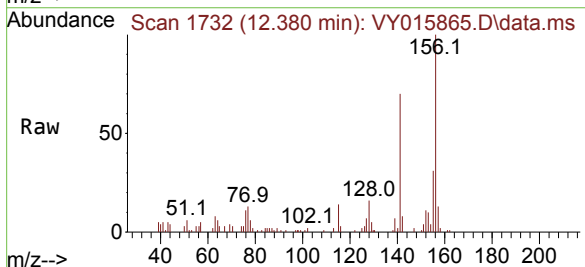
Instrument :
MSVOA_Y
ClientSampleId :

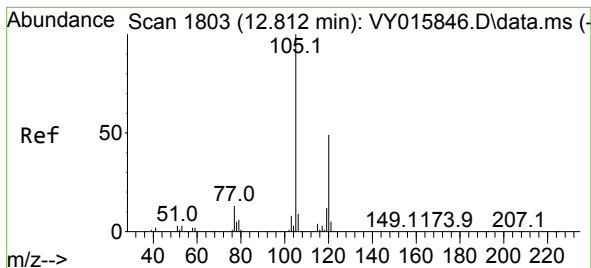
Tgt Ion: 75 Resp: 83141
Ion Ratio Lower Upper
75 100
77 2.5 0.0 0.0#



#77
Bromobenzene
Concen: 23.008 ug/l
RT: 12.380 min Scan# 1732
Delta R.T. -0.225 min
Lab File: VY015865.D
Acq: 06 Oct 2023 16:22

Tgt Ion: 156 Resp: 59302
Ion Ratio Lower Upper
156 100
77 0.0 92.8 278.6#
158 0.1 48.4 145.3#





#80

1,3,5-Trimethylbenzene

Concen: 1.173 ug/l

RT: 12.812 min Scan# 1

Delta R.T. 0.000 min

Lab File: VY015865.D

Acq: 06 Oct 2023 16:22

Instrument :

MSVOA_Y

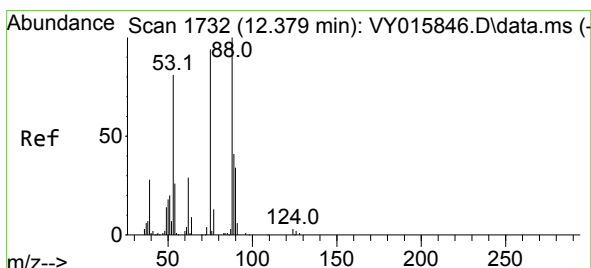
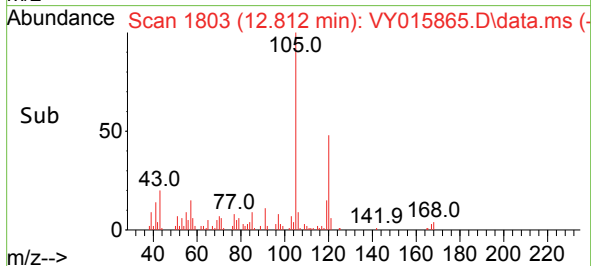
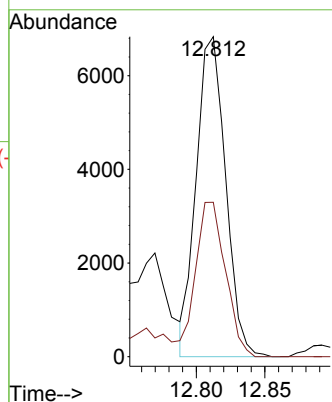
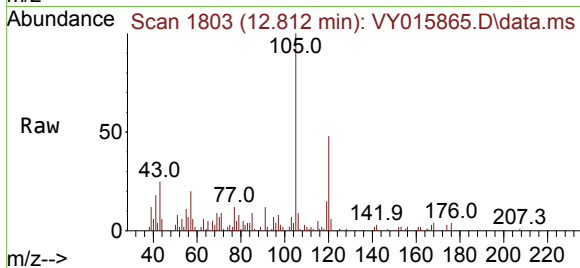
ClientSampleId :

Tgt Ion:105 Resp: 10183

Ion Ratio Lower Upper

105 100

120 49.9 23.9 71.7



#81

trans-1,4-Dichloro-2-butene

Concen: 80.834 ug/l

RT: 12.477 min Scan# 1748

Delta R.T. 0.098 min

Lab File: VY015865.D

Acq: 06 Oct 2023 16:22

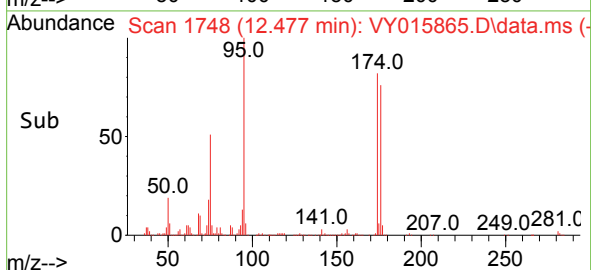
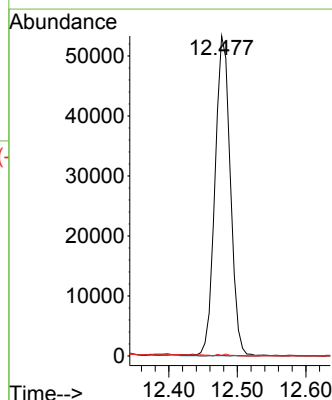
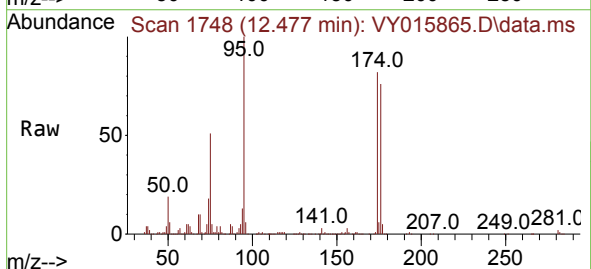
Tgt Ion: 75 Resp: 83141

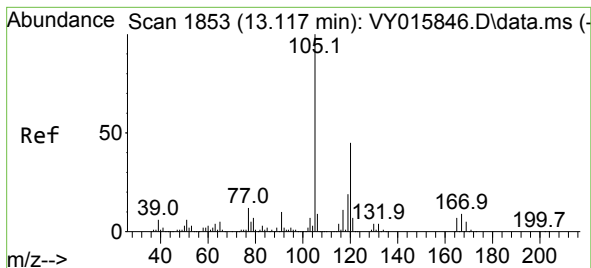
Ion Ratio Lower Upper

75 100

53 0.2 77.8 116.8#

89 0.4 37.4 56.0#





#84

1,2,4-Trimethylbenzene

Concen: 2.699 ug/l

RT: 13.117 min Scan# 1

Delta R.T. 0.000 min

Lab File: VY015865.D

Acq: 06 Oct 2023 16:22

Instrument :

MSVOA_Y

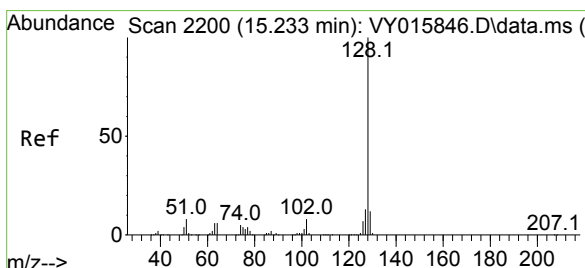
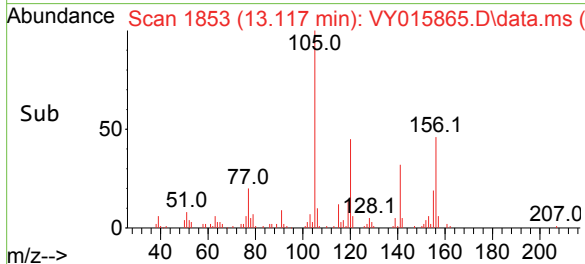
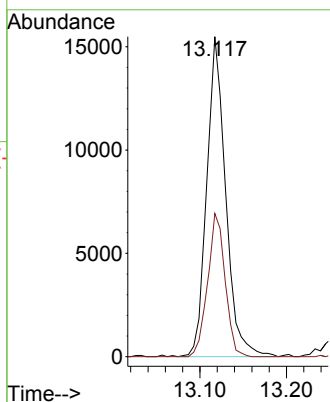
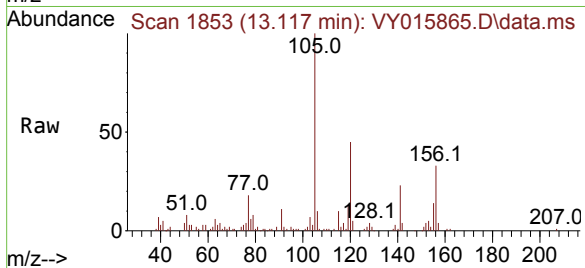
ClientSampleId :

Tgt Ion:105 Resp: 23547

Ion Ratio Lower Upper

105 100

120 41.2 22.2 66.6



#95

Naphthalene

Concen: 66.016 ug/l

RT: 15.233 min Scan# 2200

Delta R.T. 0.000 min

Lab File: VY015865.D

Acq: 06 Oct 2023 16:22

Tgt Ion:128 Resp: 556836

Ion Ratio Lower Upper

128 100

127 12.9 10.8 16.2

129 11.6 8.6 13.0

