

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100323\
 Data File : VY015811.D
 Acq On : 03 Oct 2023 17:18
 Operator : SY/MD
 Sample : 04703-03
 Misc : 4.36g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :

Quant Time: Oct 04 01:13:32 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y091923S.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 20 01:39:40 2023
 Response via : Initial Calibration

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

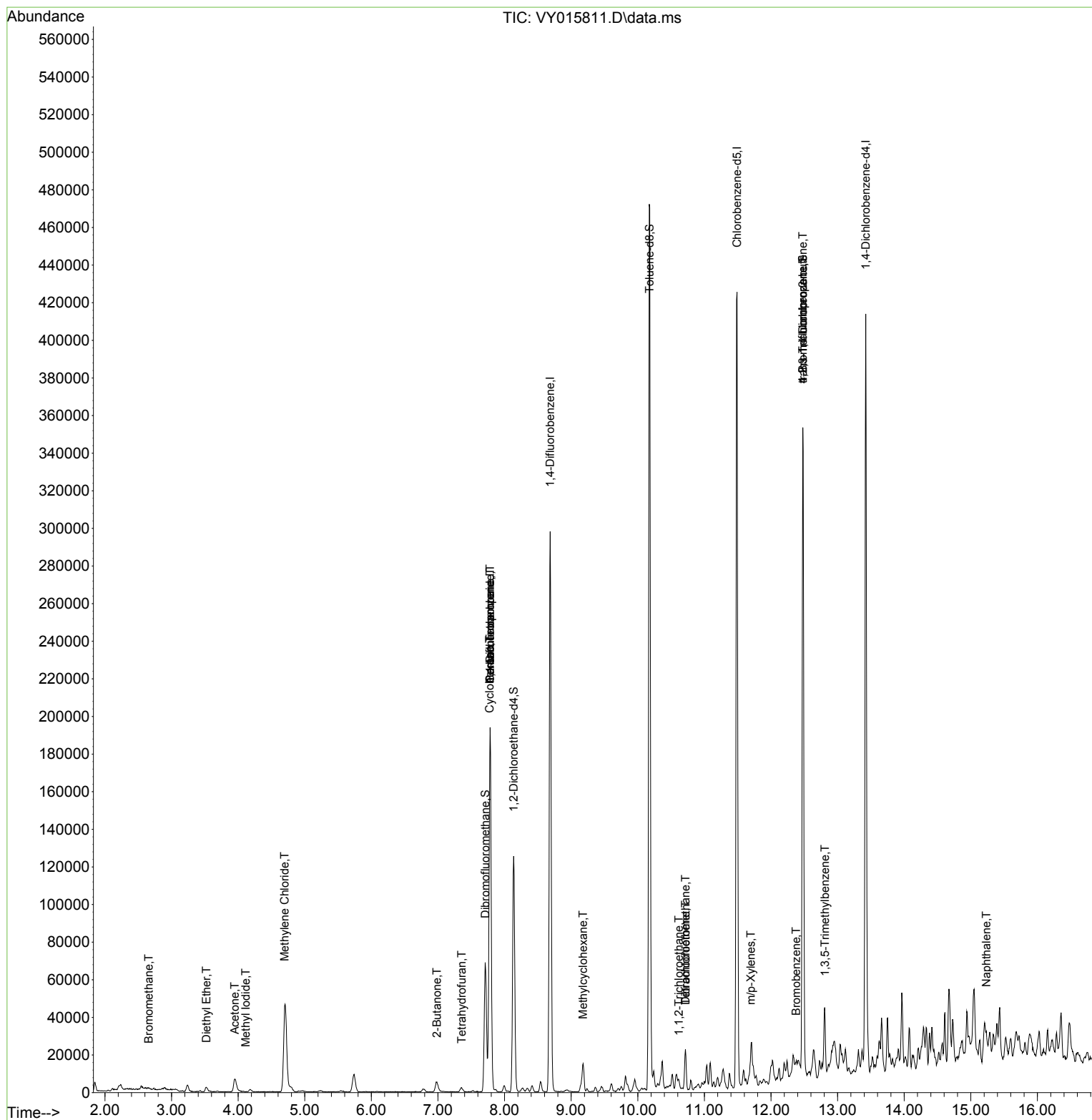
Internal Standards						
1) Pentafluorobenzene	7.783	168	147301	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.685	114	256029	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.490	117	236439	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.422	152	102141	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.137	65	97890	60.399	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 120.800%			
35) Dibromofluoromethane	7.710	113	48846	31.875	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 63.760%			
50) Toluene-d8	10.179	98	305971	58.887	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 117.780%			
62) 4-Bromofluorobenzene	12.477	95	101929	49.989	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 99.980%			
Target Compounds					Qvalue	
5) Bromomethane	2.656	94	269	2.740	ug/l	97
8) Diethyl Ether	3.522	74	1465	1.463	ug/l	97
10) Methyl Iodide	4.113	142	20	2.740	ug/l #	38
11) Tert butyl alcohol	4.936	59	519	Below Cal		98
16) Acetone	3.948	43	14598	16.831	ug/l	94
20) Methylene Chloride	4.698	84	37292	16.378	ug/l	89
25) 2-Butanone	6.984	43	1811	1.477	ug/l	99
29) Tetrahydrofuran	7.356	42	1728	2.494	ug/l #	85
31) Cyclohexane	7.777	56	4470	1.991	ug/l #	22
36) 1,1-Dichloropropene	7.783	75	11150	4.921	ug/l #	50
38) Carbon Tetrachloride	7.783	117	14511	5.900	ug/l #	16
39) Methylcyclohexane	9.179	83	6521	2.602	ug/l	88
55) 1,1,2-Trichloroethane	10.618	97	2175	1.204	ug/l #	19
60) Dibromochloromethane	10.715	129	3354	1.591	ug/l #	11
64) Tetrachloroethene	10.715	164	3861	1.903	ug/l	97
68) m/p-Xylenes	11.697	106	3891	1.135	ug/l	99
76) 1,2,3-Trichloropropane	12.477	75	54601	33.508	ug/l #	100
77) Bromobenzene	12.380	156	8299	4.412	ug/l #	1
80) 1,3,5-Trimethylbenzene	12.813	105	8192	1.277	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.477	75	54601	75.457	ug/l #	11
95) Naphthalene	15.233	128	6526	1.154	ug/l #	90

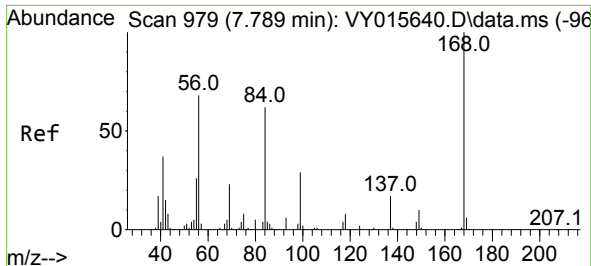
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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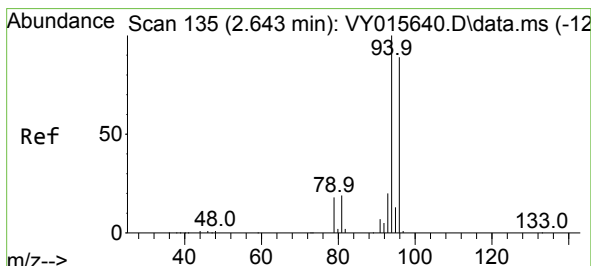
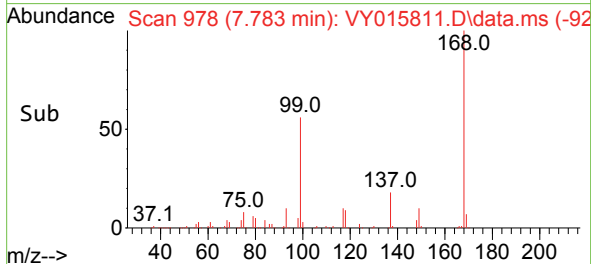
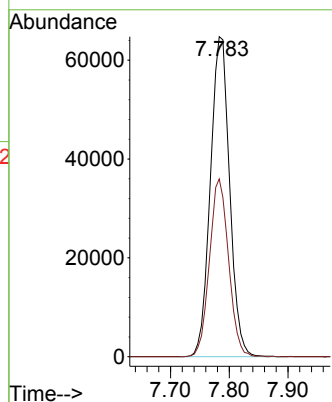
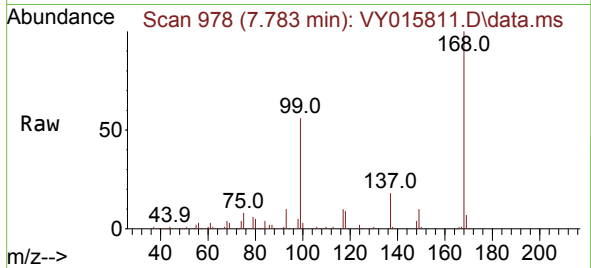




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.783 min Scan# 91
Delta R.T. -0.000 min
Lab File: VY015811.D
Acq: 03 Oct 2023 17:18

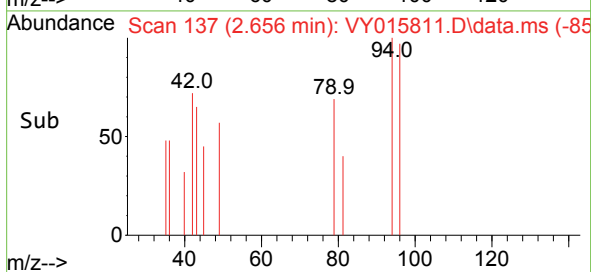
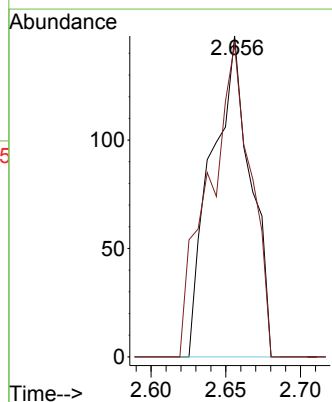
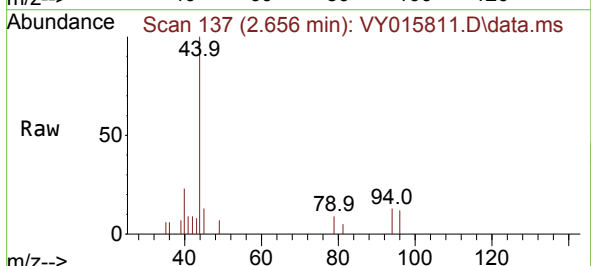
Instrument :
MSVOA_Y
ClientSampleId :

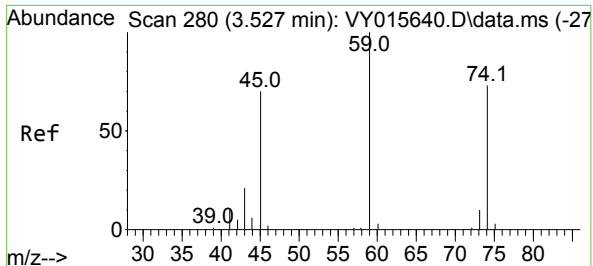
Tgt Ion:168 Resp: 147301
Ion Ratio Lower Upper
168 100
99 55.5 43.4 65.0



#5
Bromomethane
Concen: 2.740 ug/l
RT: 2.656 min Scan# 137
Delta R.T. 0.019 min
Lab File: VY015811.D
Acq: 03 Oct 2023 17:18

Tgt Ion: 94 Resp: 269
Ion Ratio Lower Upper
94 100
96 97.3 75.8 113.6

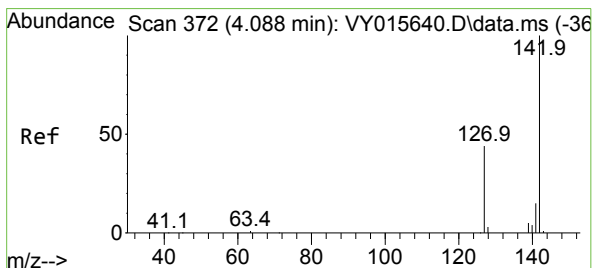
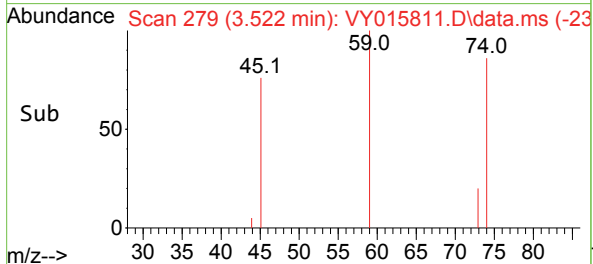
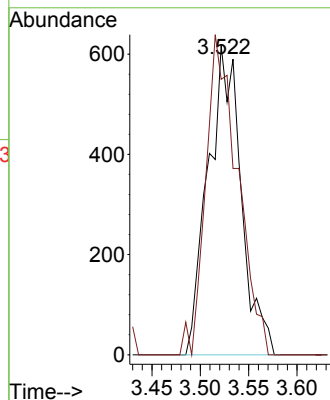
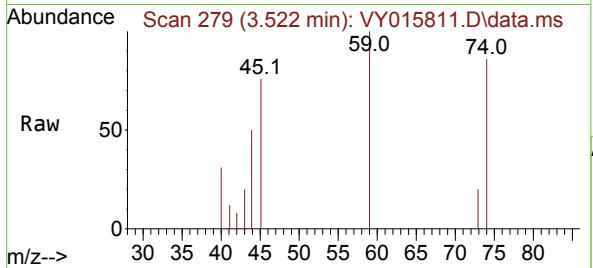




#8
Diethyl Ether
Concen: 1.463 ug/l
RT: 3.522 min Scan# 21
Delta R.T. 0.001 min
Lab File: VY015811.D
Acq: 03 Oct 2023 17:18

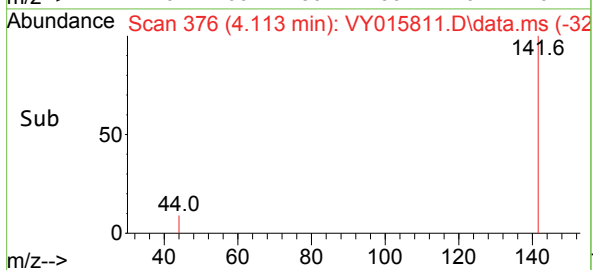
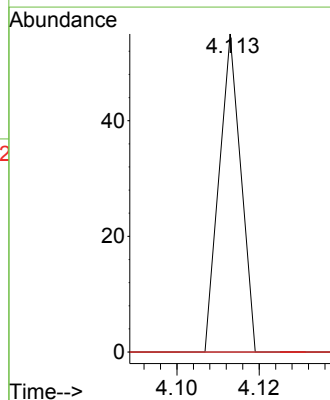
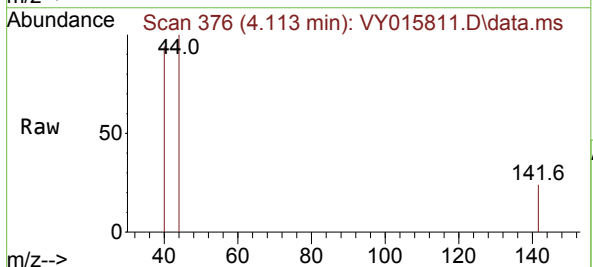
Instrument :
MSVOA_Y
ClientSampleId :

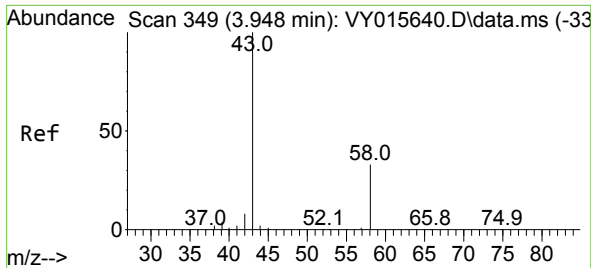
Tgt Ion: 74 Resp: 1465
Ion Ratio Lower Upper
74 100
45 100.1 51.5 154.5



#10
Methyl Iodide
Concen: 2.740 ug/l
RT: 4.113 min Scan# 376
Delta R.T. 0.031 min
Lab File: VY015811.D
Acq: 03 Oct 2023 17:18

Tgt Ion: 142 Resp: 20
Ion Ratio Lower Upper
142 100
127 0.0 37.6 56.4#
141 0.0 11.8 17.8#

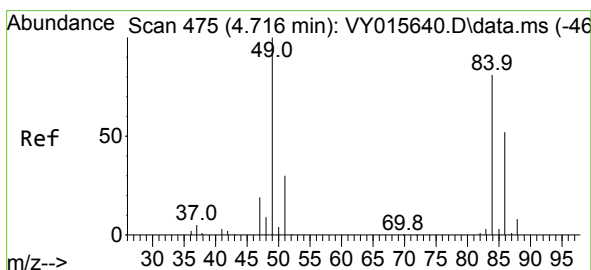
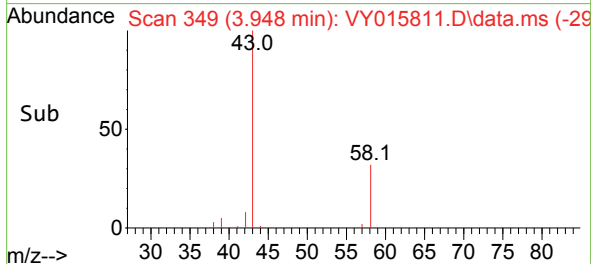
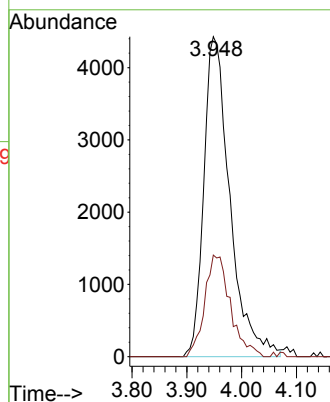
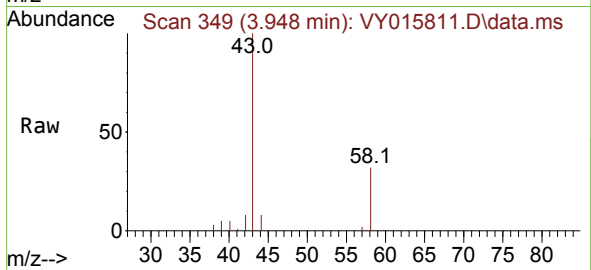




#16
Acetone
Concen: 16.831 ug/l
RT: 3.948 min Scan# 349
Delta R.T. 0.006 min
Lab File: VY015811.D
Acq: 03 Oct 2023 17:18

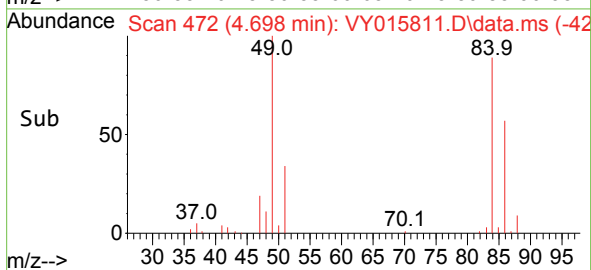
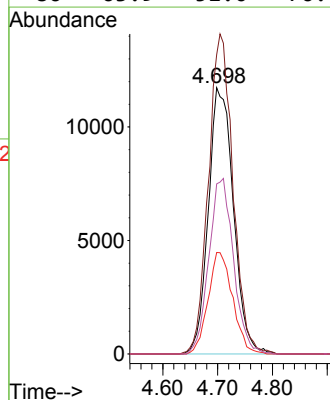
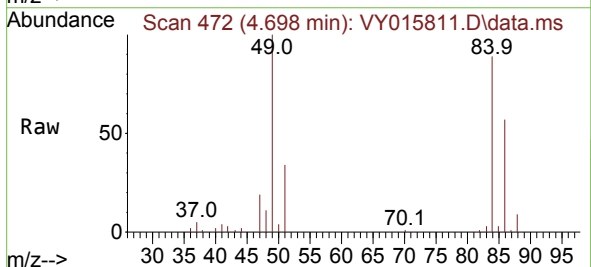
Instrument :
MSVOA_Y
ClientSampleId :

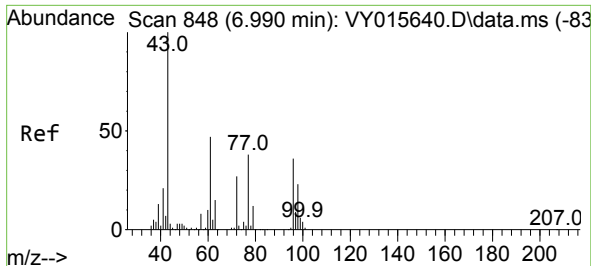
Tgt Ion: 43 Resp: 14598
Ion Ratio Lower Upper
43 100
58 31.7 22.7 34.1



#20
Methylene Chloride
Concen: 16.378 ug/l
RT: 4.698 min Scan# 472
Delta R.T. -0.006 min
Lab File: VY015811.D
Acq: 03 Oct 2023 17:18

Tgt Ion: 84 Resp: 37292
Ion Ratio Lower Upper
84 100
49 112.4 106.9 160.3
51 38.1 33.2 49.8
86 63.9 51.0 76.6

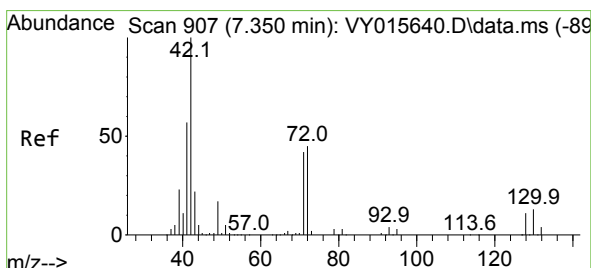
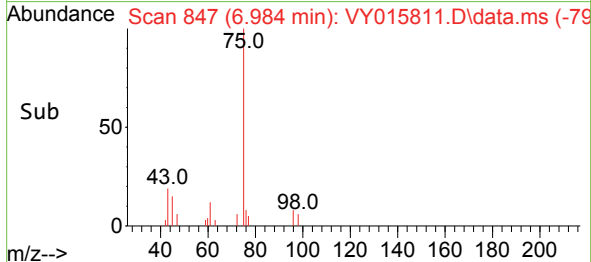
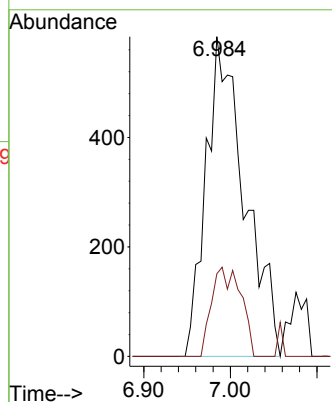
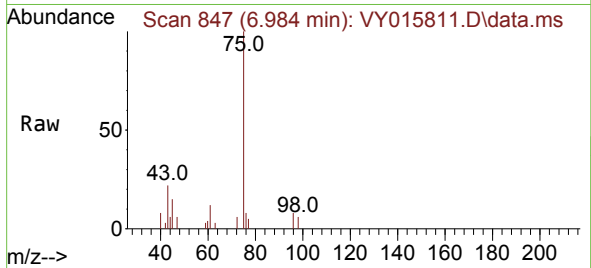




#25
2-Butanone
Concen: 1.477 ug/l
RT: 6.984 min Scan# 84
Delta R.T. 0.006 min
Lab File: VY015811.D
Acq: 03 Oct 2023 17:18

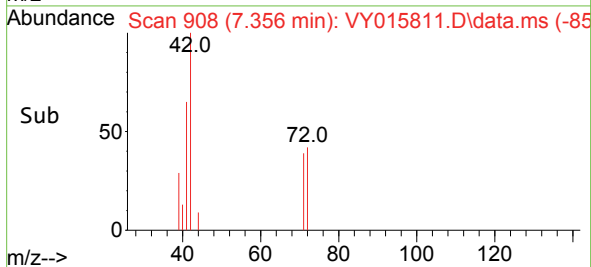
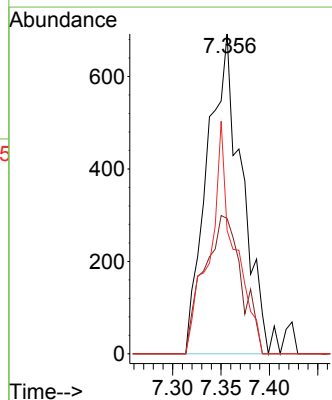
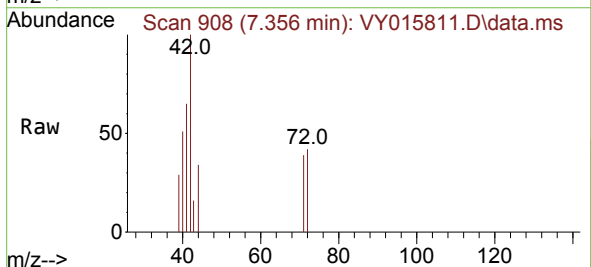
Instrument :
MSVOA_Y
ClientSampleId :

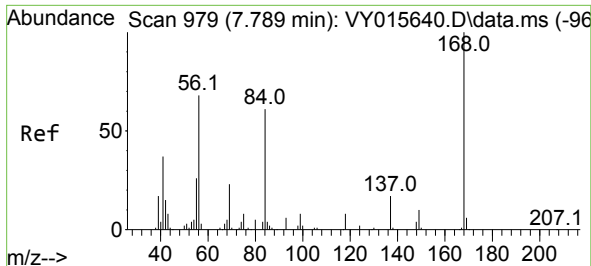
Tgt Ion: 43 Resp: 1811
Ion Ratio Lower Upper
43 100
72 25.9 20.5 30.7



#29
Tetrahydrofuran
Concen: 2.494 ug/l
RT: 7.356 min Scan# 908
Delta R.T. 0.012 min
Lab File: VY015811.D
Acq: 03 Oct 2023 17:18

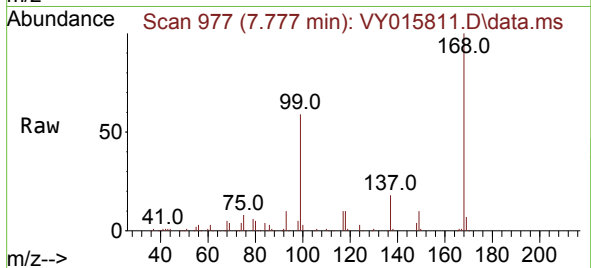
Tgt Ion: 42 Resp: 1728
Ion Ratio Lower Upper
42 100
72 46.7 32.8 49.2
71 51.3 31.0 46.4#



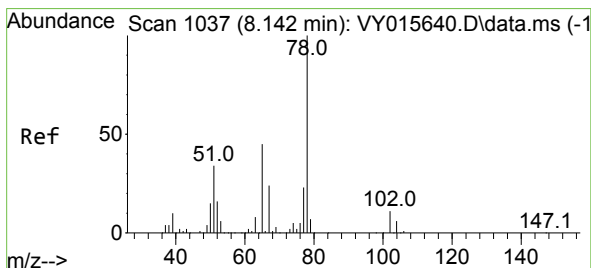
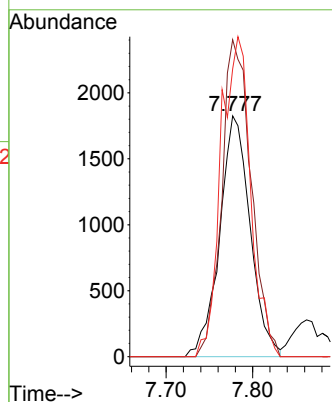
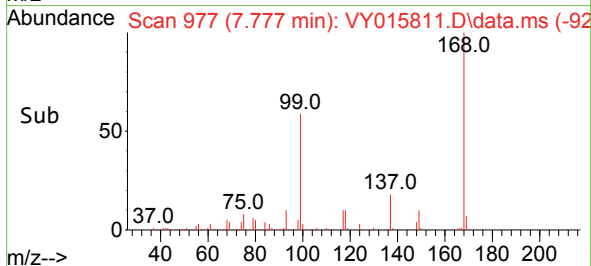


#31
Cyclohexane
Concen: 1.991 ug/l
RT: 7.777 min Scan# 91
Delta R.T. -0.006 min
Lab File: VY015811.D
Acq: 03 Oct 2023 17:18

Instrument :
MSVOA_Y
ClientSampleId :

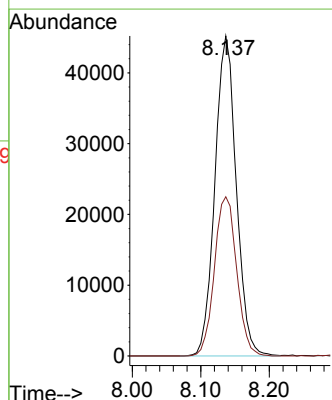
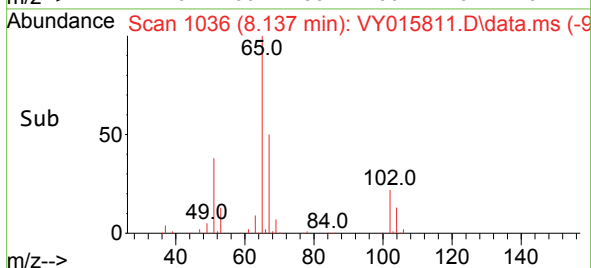
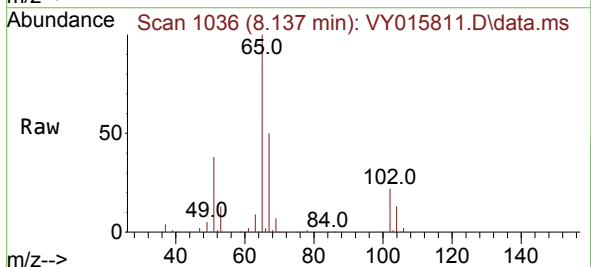


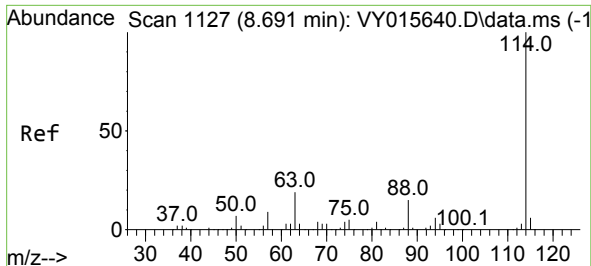
Tgt Ion: 56 Resp: 4470
Ion Ratio Lower Upper
56 100
69 131.7 27.8 41.6#
84 119.6 66.4 99.6#



#33
1,2-Dichloroethane-d4
Concen: 60.399 ug/l
RT: 8.137 min Scan# 1036
Delta R.T. 0.001 min
Lab File: VY015811.D
Acq: 03 Oct 2023 17:18

Tgt Ion: 65 Resp: 97890
Ion Ratio Lower Upper
65 100
67 51.7 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: VY015811.D

Acq: 03 Oct 2023 17:18

Instrument :

MSVOA_Y

ClientSampleId :

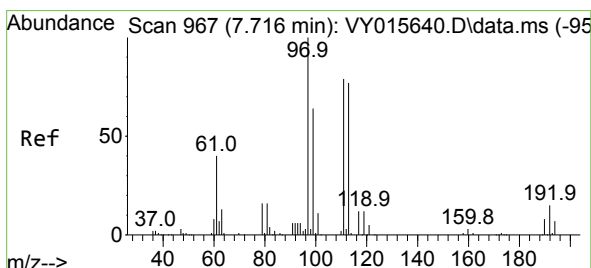
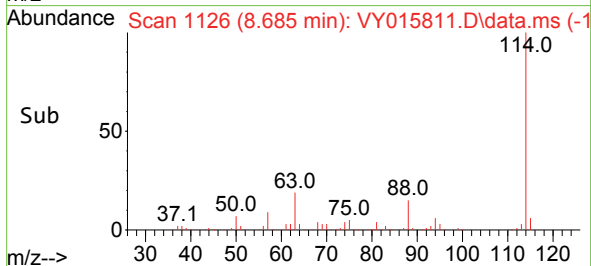
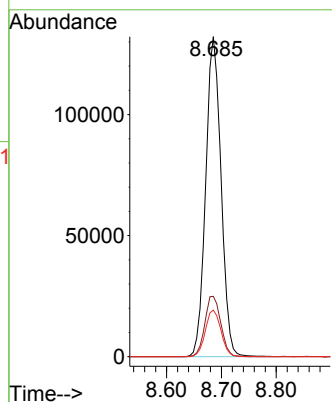
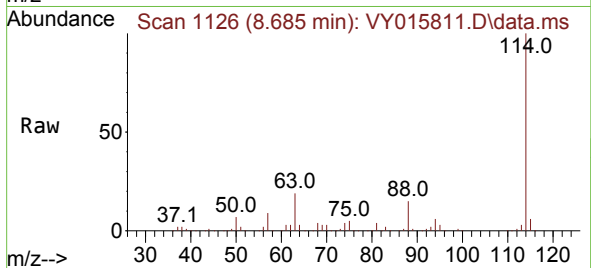
Tgt Ion:114 Resp: 256029

Ion Ratio Lower Upper

114 100

63 18.9 0.0 42.4

88 14.6 0.0 30.6



#35

Dibromofluoromethane

Concen: 31.875 ug/l

RT: 7.710 min Scan# 966

Delta R.T. -0.006 min

Lab File: VY015811.D

Acq: 03 Oct 2023 17:18

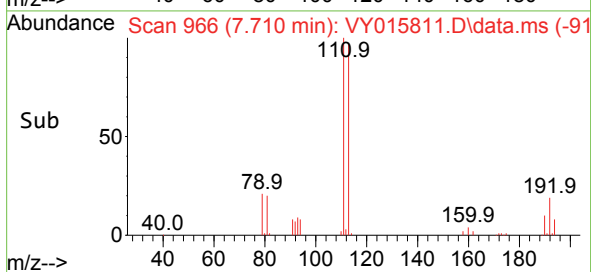
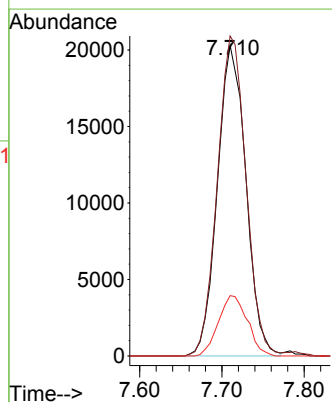
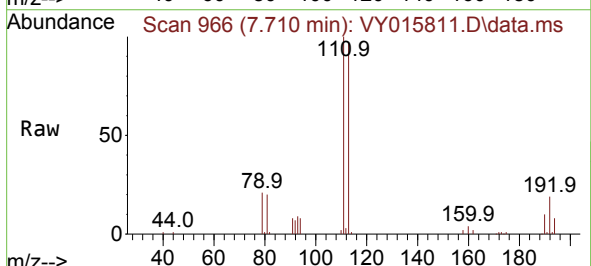
Tgt Ion:113 Resp: 48846

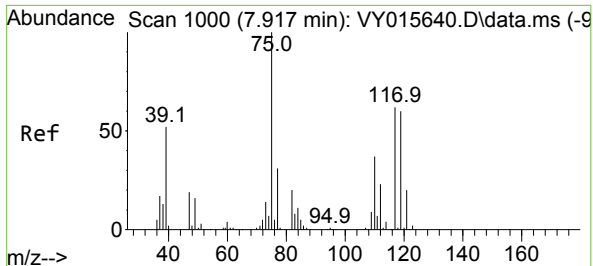
Ion Ratio Lower Upper

113 100

111 103.5 81.3 121.9

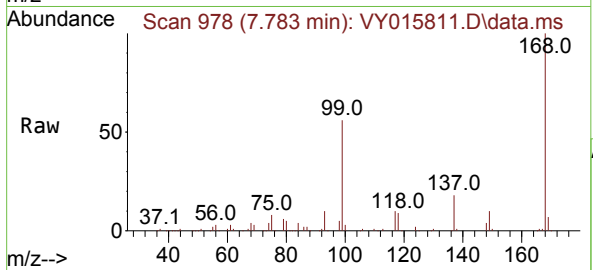
192 19.8 16.9 25.3



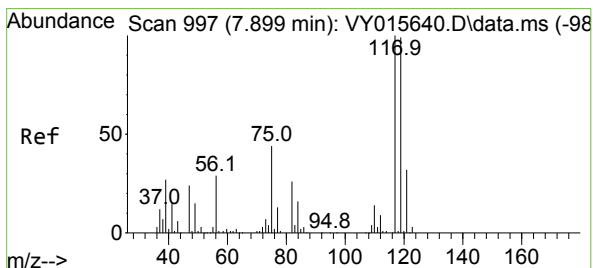
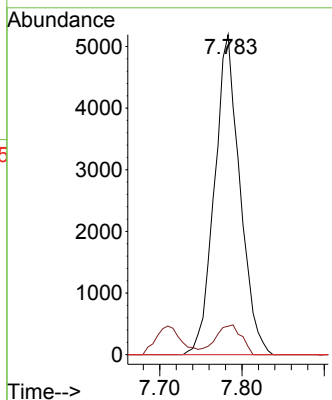
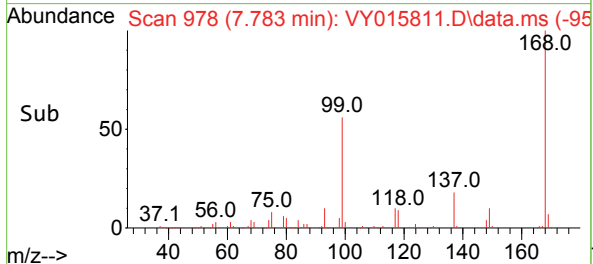


#36
 1,1-Dichloropropene
 Concen: 4.921 ug/l
 RT: 7.783 min Scan# 91
 Delta R.T. -0.128 min
 Lab File: VY015811.D
 Acq: 03 Oct 2023 17:18

Instrument :
 MSVOA_Y
 ClientSampleId :

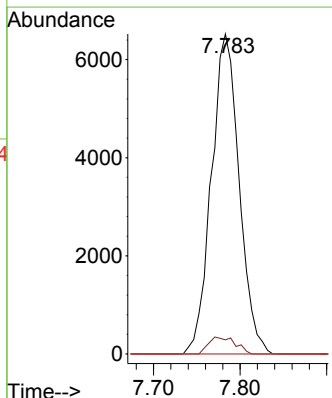
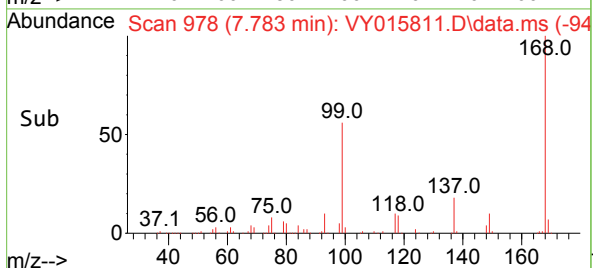
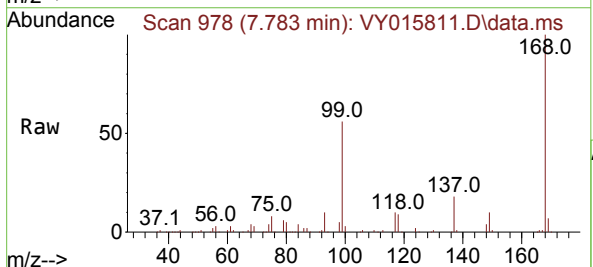


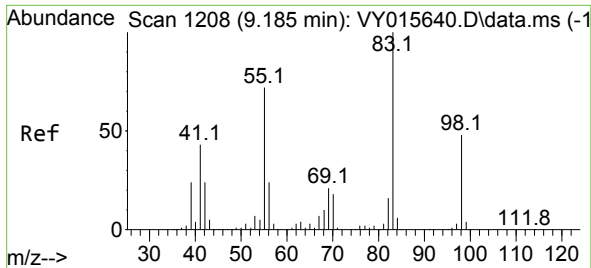
Tgt Ion: 75 Resp: 11150
 Ion Ratio Lower Upper
 75 100
 110 9.6 17.8 53.5#
 77 0.0 24.4 36.6#



#38
 Carbon Tetrachloride
 Concen: 5.900 ug/l
 RT: 7.783 min Scan# 978
 Delta R.T. -0.110 min
 Lab File: VY015811.D
 Acq: 03 Oct 2023 17:18

Tgt Ion: 117 Resp: 14511
 Ion Ratio Lower Upper
 117 100
 119 4.4 76.4 114.6#
 121 0.0 25.8 38.6#

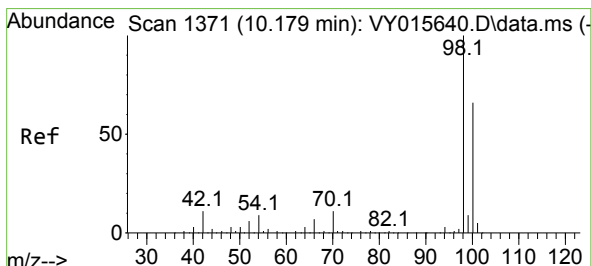
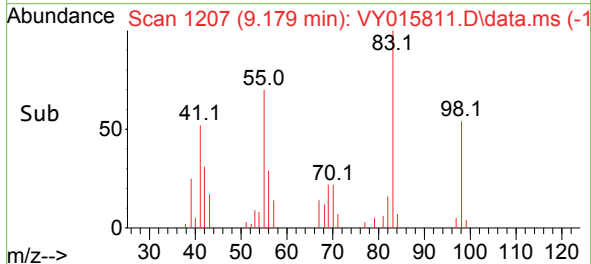
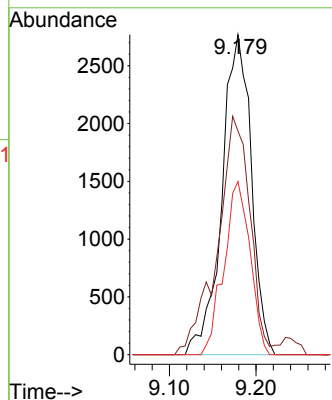
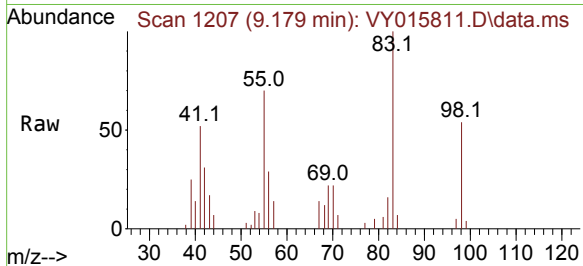




#39
Methylcyclohexane
Concen: 2.602 ug/l
RT: 9.179 min Scan# 1207
Delta R.T. 0.000 min
Lab File: VY015811.D
Acq: 03 Oct 2023 17:18

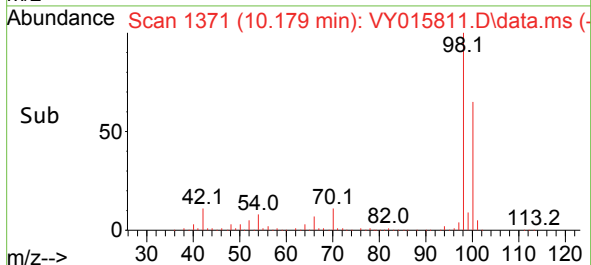
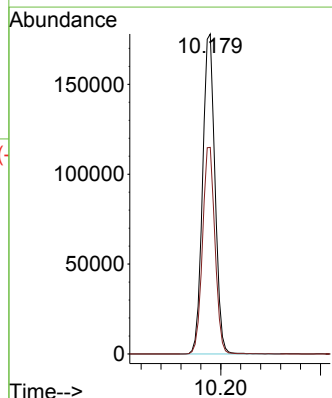
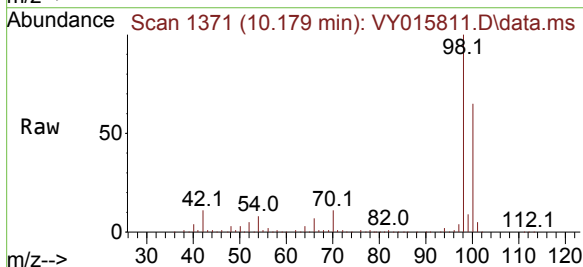
Instrument :
MSVOA_Y
ClientSampleId :

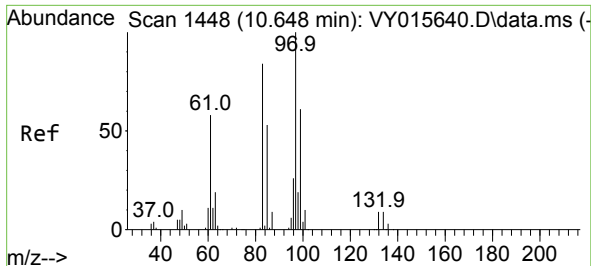
Tgt Ion: 83 Resp: 6521
Ion Ratio Lower Upper
83 100
55 67.5 63.0 94.4
98 54.1 37.4 56.2



#50
Toluene-d8
Concen: 58.887 ug/l
RT: 10.179 min Scan# 1371
Delta R.T. -0.000 min
Lab File: VY015811.D
Acq: 03 Oct 2023 17:18

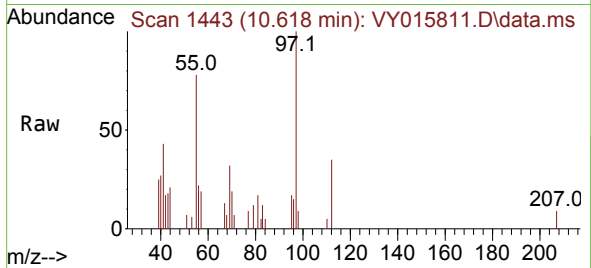
Tgt Ion: 98 Resp: 305971
Ion Ratio Lower Upper
98 100
100 65.0 50.1 75.1



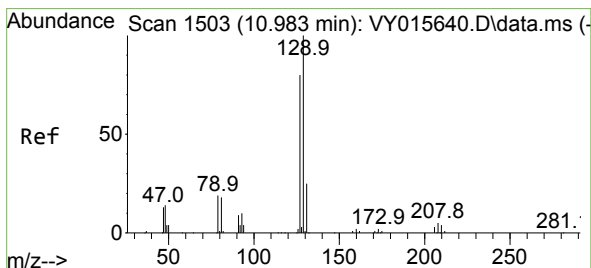
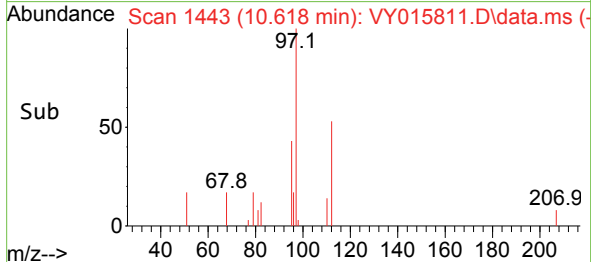
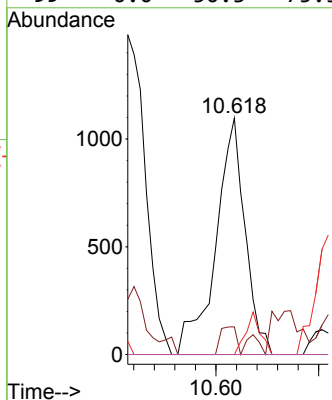


#55
 1,1,2-Trichloroethane
 Concen: 1.204 ug/l
 RT: 10.618 min Scan# 1443
 Delta R.T. -0.024 min
 Lab File: VY015811.D
 Acq: 03 Oct 2023 17:18

Instrument :
 MSVOA_Y
 ClientSampleId :

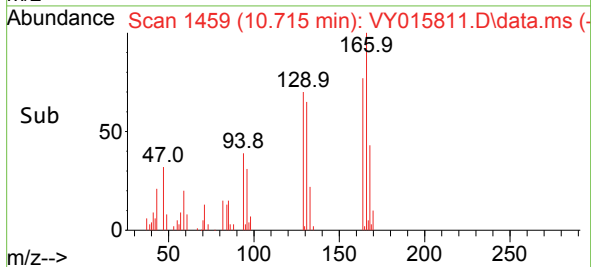
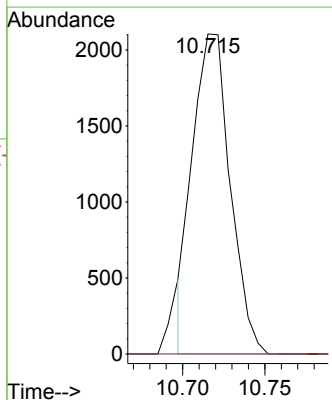
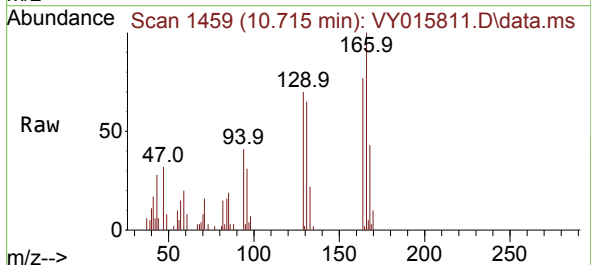


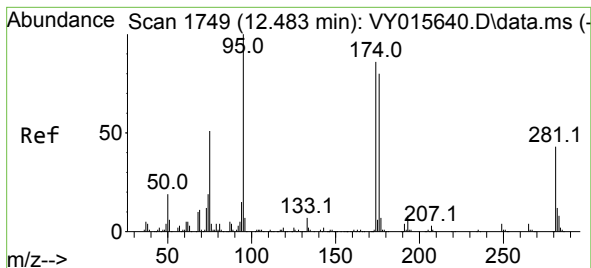
Tgt Ion: 97 Resp: 2175
 Ion Ratio Lower Upper
 97 100
 83 11.8 72.0 108.0#
 85 0.0 45.4 68.0#
 99 0.0 50.3 75.5#



#60
 Dibromochloromethane
 Concen: 1.591 ug/l
 RT: 10.715 min Scan# 1459
 Delta R.T. -0.268 min
 Lab File: VY015811.D
 Acq: 03 Oct 2023 17:18

Tgt Ion: 129 Resp: 3354
 Ion Ratio Lower Upper
 129 100
 127 0.0 38.5 115.5#

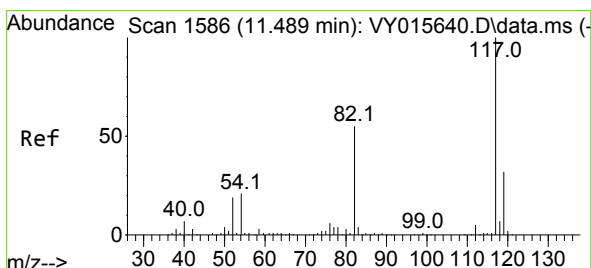
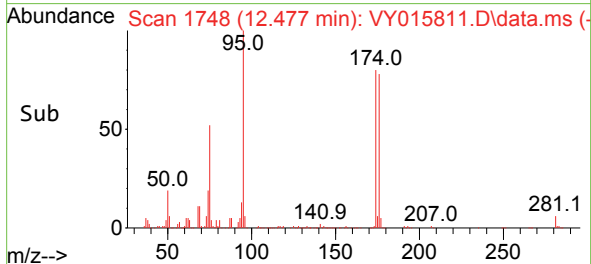
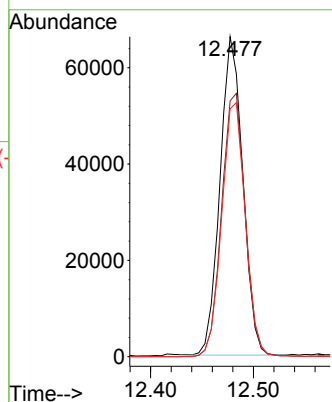
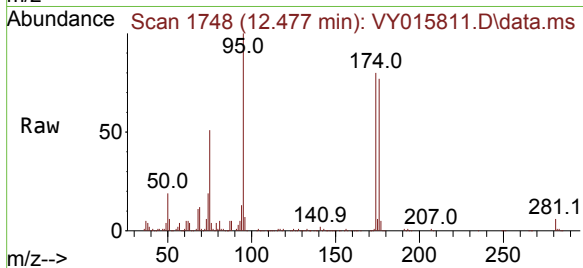




#62
4-Bromofluorobenzene
Concen: 49.989 ug/l
RT: 12.477 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY015811.D
Acq: 03 Oct 2023 17:18

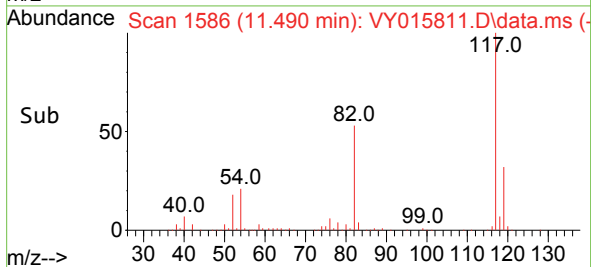
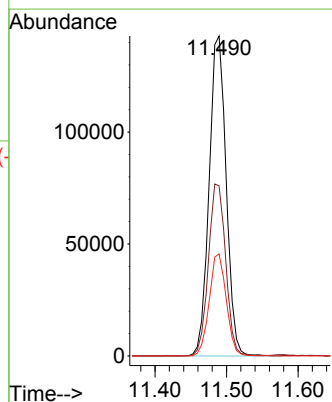
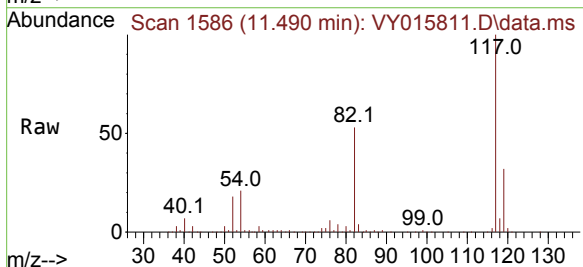
Instrument :
MSVOA_Y
ClientSampleId :

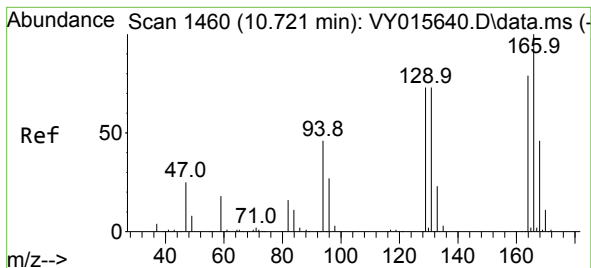
Tgt Ion: 95 Resp: 101929
Ion Ratio Lower Upper
95 100
174 85.7 0.0 178.2
176 82.6 0.0 173.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.490 min Scan# 1586
Delta R.T. 0.001 min
Lab File: VY015811.D
Acq: 03 Oct 2023 17:18

Tgt Ion: 117 Resp: 236439
Ion Ratio Lower Upper
117 100
82 53.1 43.4 65.0
119 31.9 26.3 39.5





#64

Tetrachloroethene

Concen: 1.903 ug/l

RT: 10.715 min Scan# 1459

Delta R.T. 0.000 min

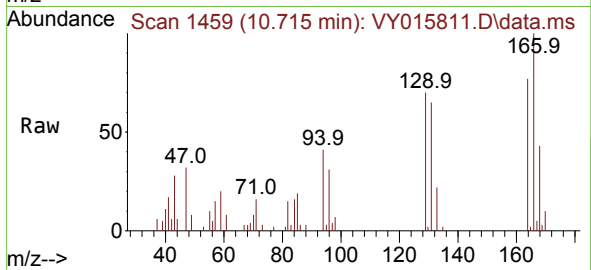
Lab File: VY015811.D

Acq: 03 Oct 2023 17:18

Instrument :

MSVOA_Y

ClientSampleId :



Tgt Ion:164 Resp: 3861

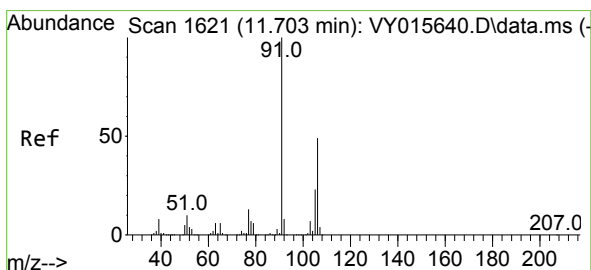
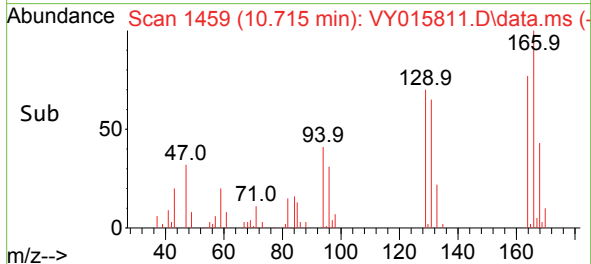
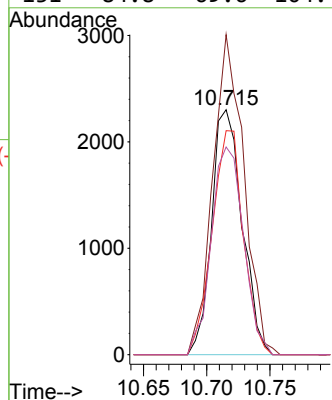
Ion Ratio Lower Upper

164 100

166 130.6 103.0 154.6

129 91.4 77.2 115.8

131 84.8 69.6 104.4



#68

m/p-Xylenes

Concen: 1.135 ug/l

RT: 11.697 min Scan# 1620

Delta R.T. -0.006 min

Lab File: VY015811.D

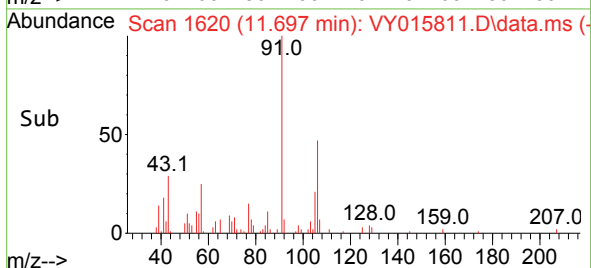
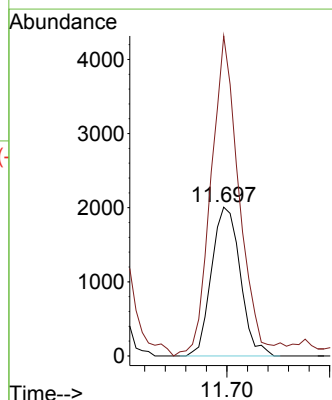
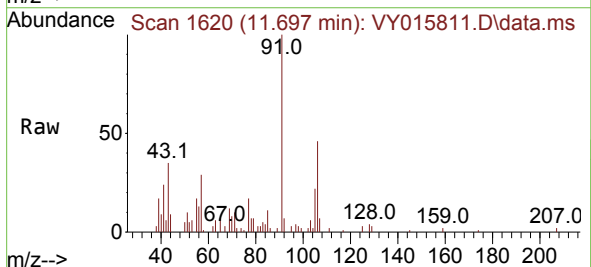
Acq: 03 Oct 2023 17:18

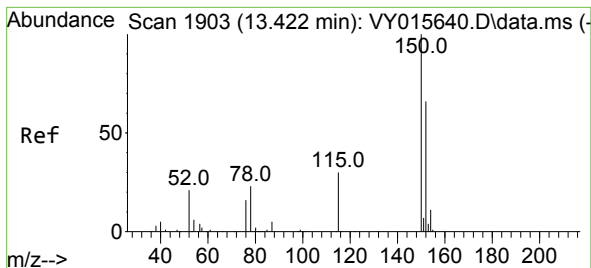
Tgt Ion:106 Resp: 3891

Ion Ratio Lower Upper

106 100

91 209.3 166.1 249.1





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.422 min Scan# 1903

Delta R.T. 0.000 min

Lab File: VY015811.D

Acq: 03 Oct 2023 17:18

Instrument :

MSVOA_Y

ClientSampleId :

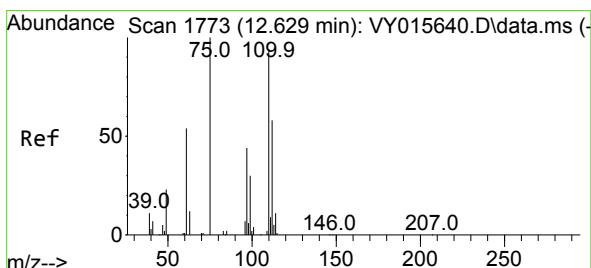
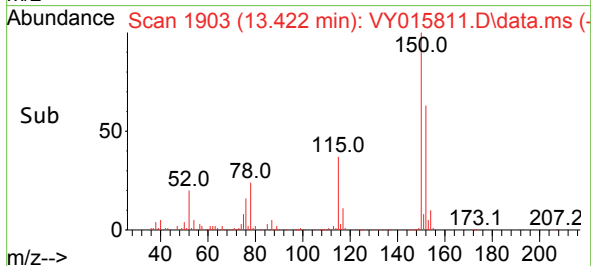
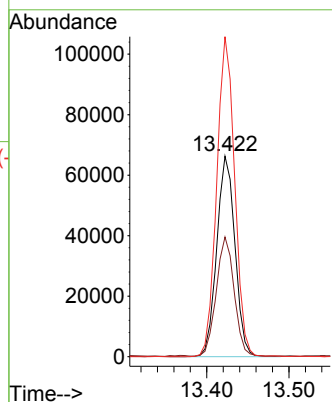
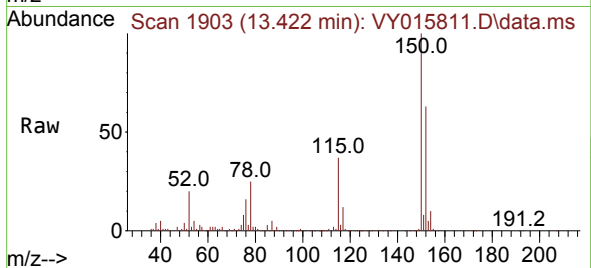
Tgt Ion:152 Resp: 102141

Ion Ratio Lower Upper

152 100

115 58.3 28.8 86.5

150 157.2 0.0 348.8



#76

1,2,3-Trichloropropane

Concen: 33.508 ug/l

RT: 12.477 min Scan# 1748

Delta R.T. -0.152 min

Lab File: VY015811.D

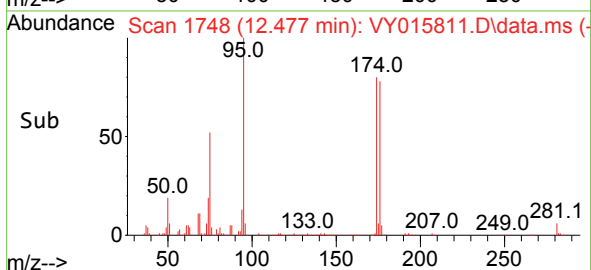
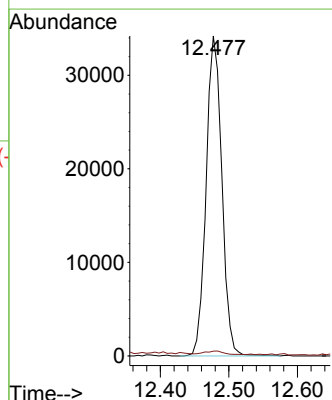
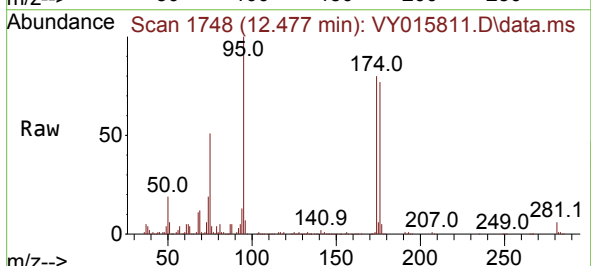
Acq: 03 Oct 2023 17:18

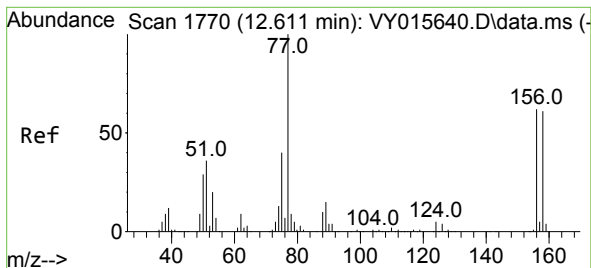
Tgt Ion: 75 Resp: 54601

Ion Ratio Lower Upper

75 100

77 1.3 0.0 0.0#





#77

Bromobenzene

Concen: 4.412 ug/l

RT: 12.380 min Scan# 11

Delta R.T. -0.225 min

Lab File: VY015811.D

Acq: 03 Oct 2023 17:18

Instrument :

MSVOA_Y

ClientSampleId :

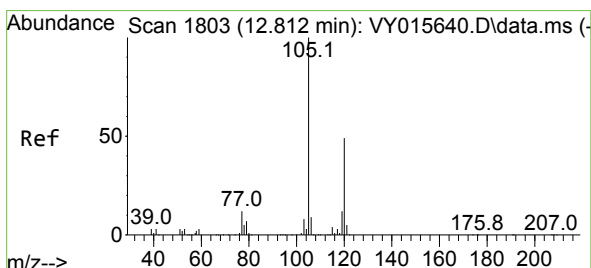
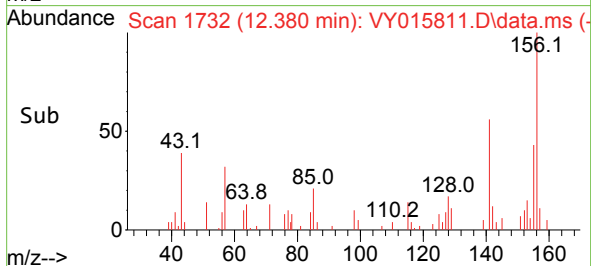
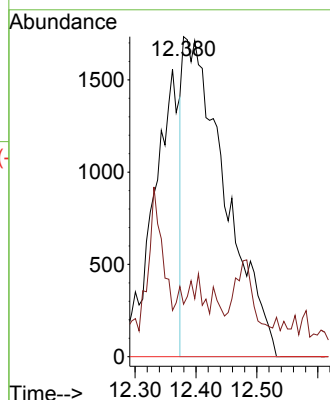
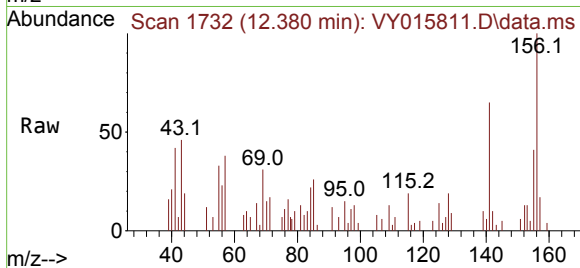
Tgt Ion:156 Resp: 8299

Ion Ratio Lower Upper

156 100

77 0.7 92.8 278.6#

158 0.0 48.4 145.3#



#80

1,3,5-Trimethylbenzene

Concen: 1.277 ug/l

RT: 12.813 min Scan# 1803

Delta R.T. 0.001 min

Lab File: VY015811.D

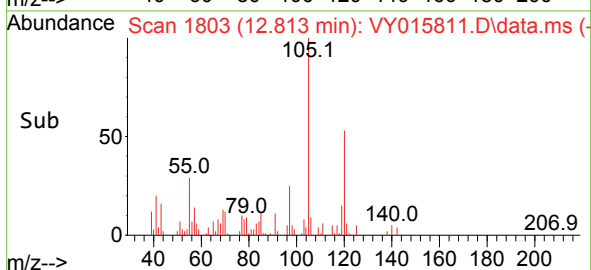
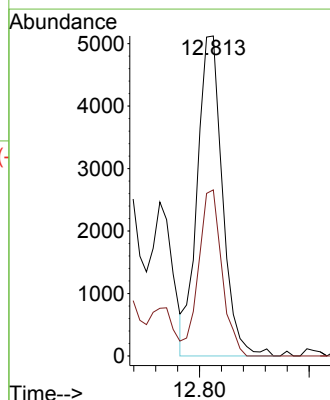
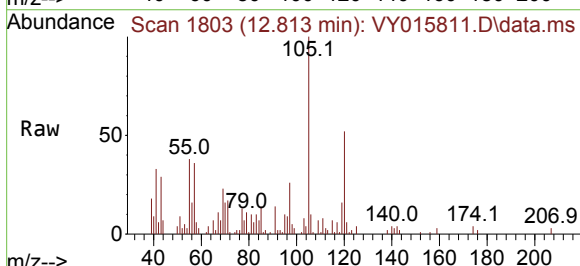
Acq: 03 Oct 2023 17:18

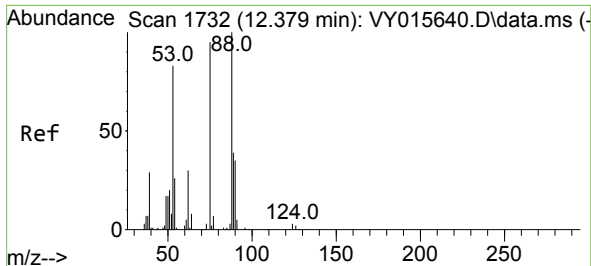
Tgt Ion:105 Resp: 8192

Ion Ratio Lower Upper

105 100

120 48.1 23.9 71.7

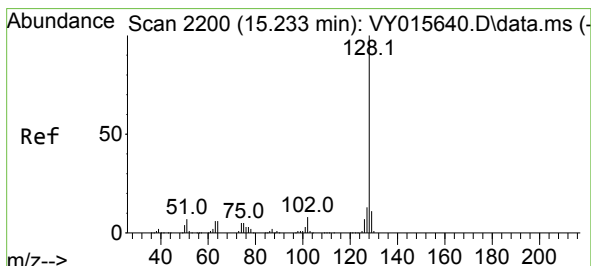
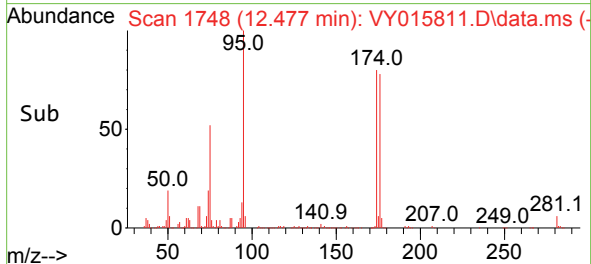
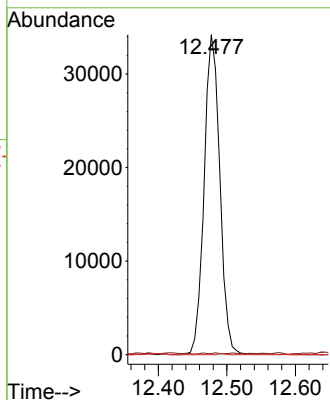
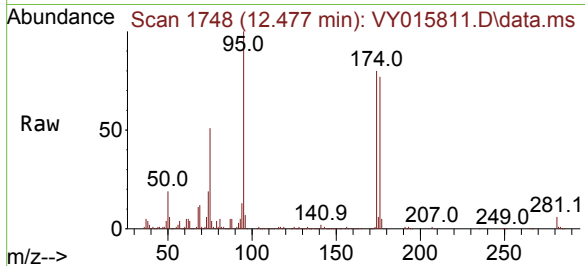




#81
trans-1,4-Dichloro-2-butene
Concen: 75.457 ug/l
RT: 12.477 min Scan# 11
Delta R.T. 0.097 min
Lab File: VY015811.D
Acq: 03 Oct 2023 17:18

Instrument :
MSVOA_Y
ClientSampleId :

Tgt Ion: 75 Resp: 54601
Ion Ratio Lower Upper
75 100
53 0.1 77.8 116.8#
89 0.1 37.4 56.0#



#95
Naphthalene
Concen: 1.154 ug/l
RT: 15.233 min Scan# 2200
Delta R.T. -0.000 min
Lab File: VY015811.D
Acq: 03 Oct 2023 17:18

Tgt Ion:128 Resp: 6526
Ion Ratio Lower Upper
128 100
127 18.6 10.8 16.2#
129 8.3 8.6 13.0#

