

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY011924\
 Data File : VY017060.D
 Acq On : 19 Jan 2024 16:56
 Operator : SY/MD
 Sample : P1203-01
 Misc : 5.02g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 72-11977

Quant Time: Jan 19 22:24:44 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y010224S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jan 02 14:25:32 2024
 Response via : Initial Calibration

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

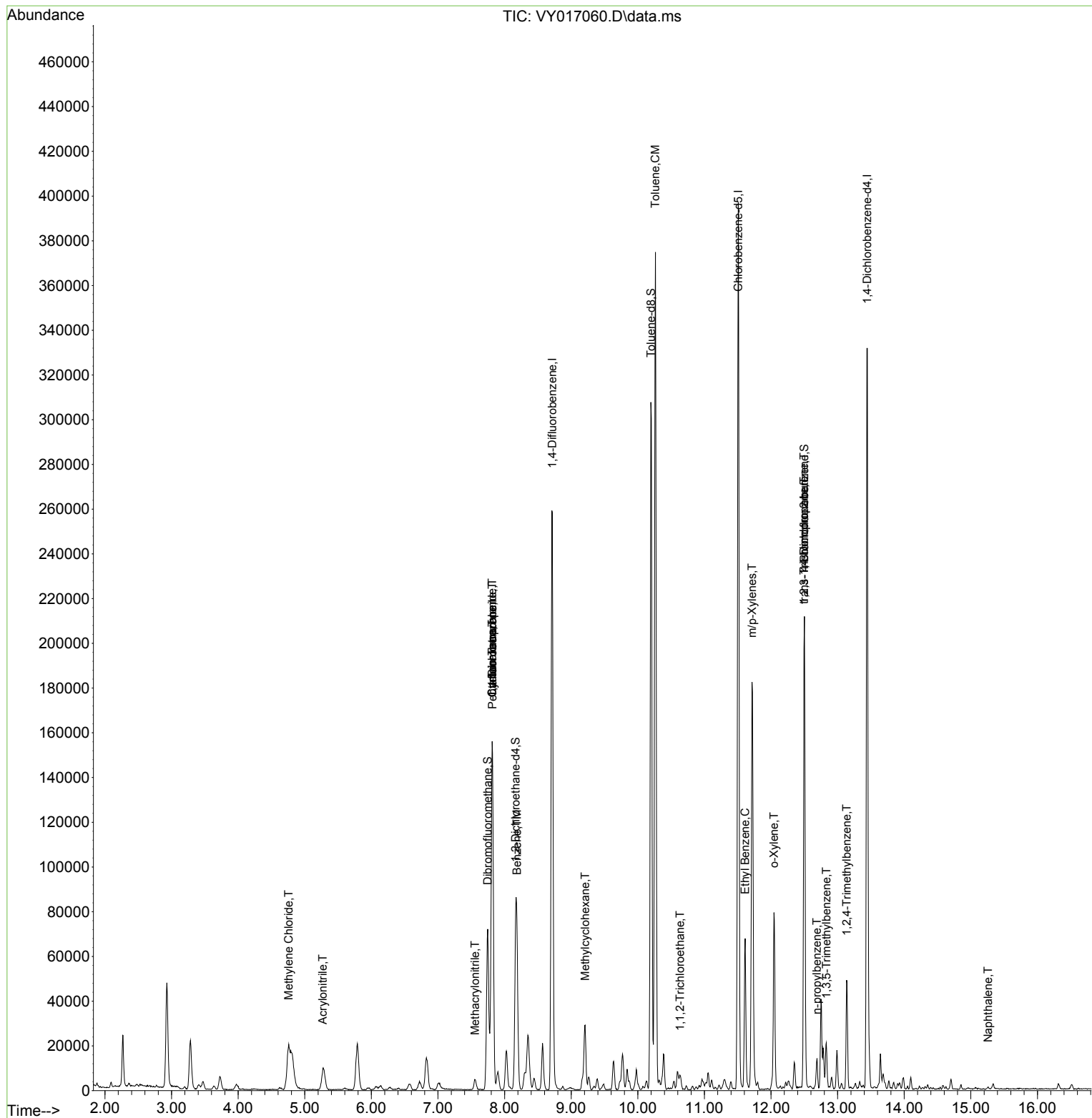
Internal Standards						
1) Pentafluorobenzene	7.819	168	106497	50.000	ug/l	0.02
34) 1,4-Difluorobenzene	8.716	114	224345	50.000	ug/l	0.01
63) Chlorobenzene-d5	11.508	117	213581	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.447	152	84210	50.000	ug/l	0.01
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.167	65	47082	44.730	ug/l	0.01
Spiked Amount 50.000	Range 50 - 163		Recovery =	89.460%		
35) Dibromofluoromethane	7.746	113	51641	36.122	ug/l	0.02
Spiked Amount 50.000	Range 54 - 147		Recovery =	72.240%		
50) Toluene-d8	10.197	98	197767	40.173	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery =	80.340%		
62) 4-Bromofluorobenzene	12.502	95	65180	39.243	ug/l	0.01
Spiked Amount 50.000	Range 30 - 143		Recovery =	78.480%		
Target Compounds						Qvalue
11) Tert butyl alcohol	4.972	59	285	Below Cal	#	75
13) Acrolein	3.741	56	89	Below Cal	#	1
15) Acrylonitrile	5.271	53	394	1.450	ug/l #	23
16) Acetone	3.966	43	2205	Below Cal	#	55
20) Methylene Chloride	4.759	84	12061	2.110	ug/l	98
25) 2-Butanone	7.021	43	385	Below Cal	#	48
31) Cyclohexane	7.813	56	11874	6.573	ug/l #	80
36) 1,1-Dichloropropene	7.813	75	8928	4.285	ug/l #	49
38) Carbon Tetrachloride	7.813	117	10700	5.055	ug/l #	17
39) Methylcyclohexane	9.209	83	10188	4.350	ug/l	97
40) Benzene	8.185	78	48073	7.692	ug/l	96
41) Methacrylonitrile	7.557	41	772	1.548	ug/l #	1
52) Toluene	10.264	92	155971	41.351	ug/l	100
55) 1,1,2-Trichloroethane	10.636	97	2055	1.713	ug/l #	20
67) Ethyl Benzene	11.611	91	45771	5.714	ug/l	97
68) m/p-Xylenes	11.715	106	55444	18.857	ug/l	98
69) o-Xylene	12.044	106	20768	7.534	ug/l	97
76) 1,2,3-Trichloropropane	12.495	75	33797	36.984	ug/l #	100
78) n-propylbenzene	12.691	91	10651	1.274	ug/l	98
80) 1,3,5-Trimethylbenzene	12.831	105	8384	1.542	ug/l	96
81) trans-1,4-Dichloro-2-b...	12.495	75	33797	83.981	ug/l #	12
84) 1,2,4-Trimethylbenzene	13.136	105	26596	4.966	ug/l	98
95) Naphthalene	15.257	128	1271	1.130	ug/l #	90

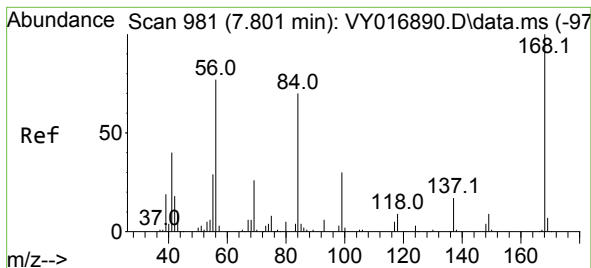
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y010224S.M
Quant Title : SW846 8260
QLast Update : Tue Jan 02 14:25:32 2024
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.819 min Scan# 981

Delta R.T. 0.018 min

Lab File: VY017060.D

Acq: 19 Jan 2024 16:56

Instrument :

MSVOA_Y

ClientSampleId :

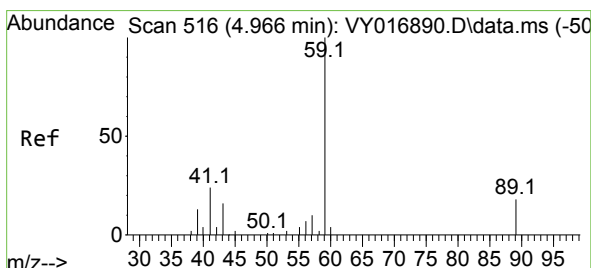
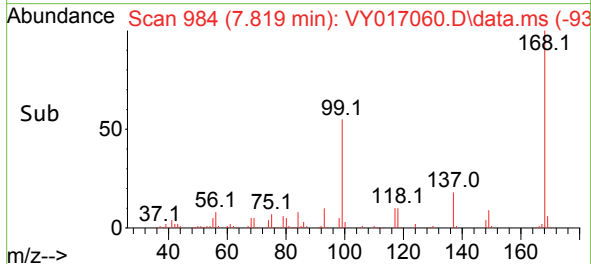
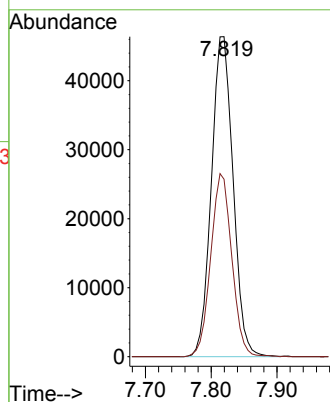
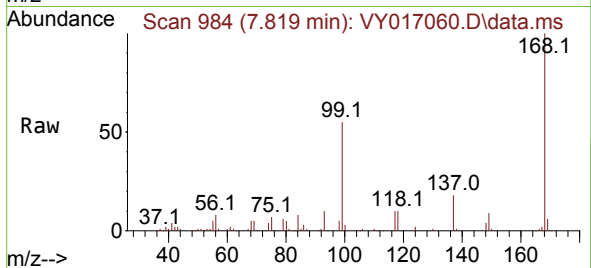
72-11977

Tgt Ion:168 Resp: 106497

Ion Ratio Lower Upper

168 100

99 55.5 44.2 66.4



#11

Tert butyl alcohol

Concen: Below Cal

RT: 4.972 min Scan# 517

Delta R.T. 0.006 min

Lab File: VY017060.D

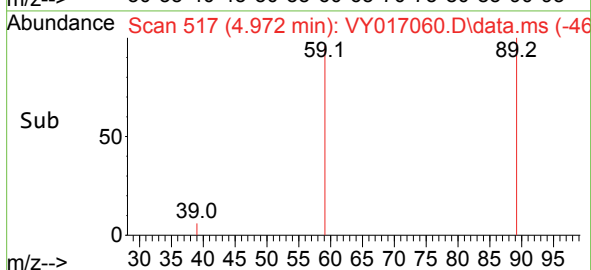
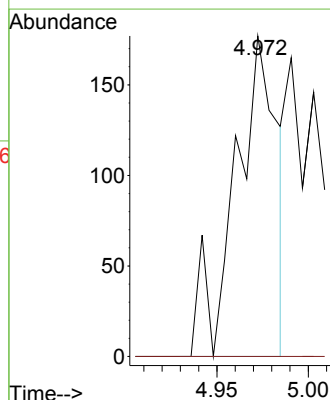
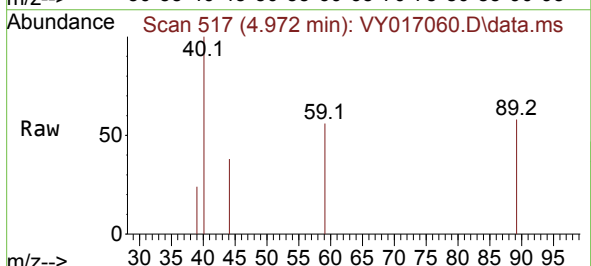
Acq: 19 Jan 2024 16:56

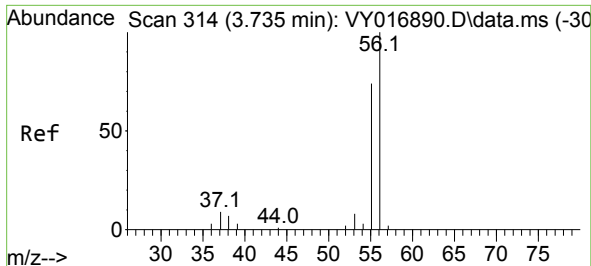
Tgt Ion: 59 Resp: 285

Ion Ratio Lower Upper

59 100

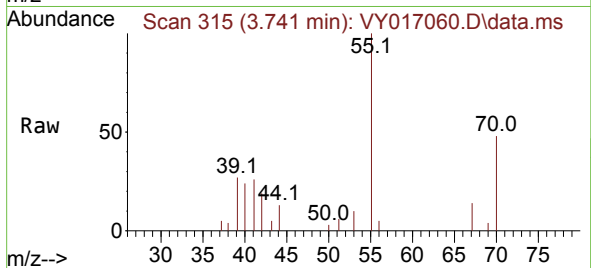
57 0.0 7.4 11.0#



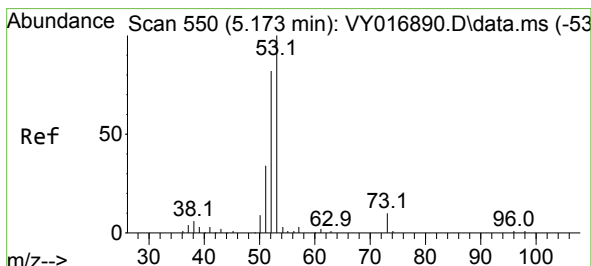
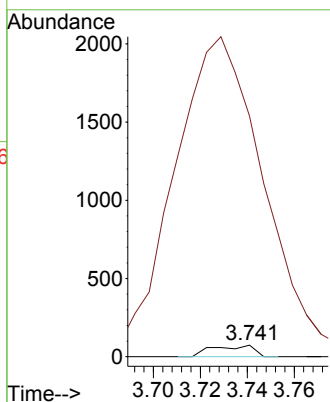
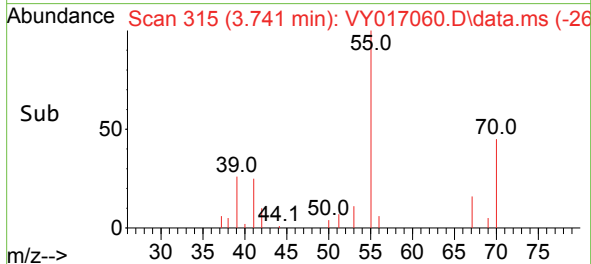


#13
Acrolein
Concen: Below Cal
RT: 3.741 min Scan# 314
Delta R.T. -0.000 min
Lab File: VY017060.D
Acq: 19 Jan 2024 16:56

Instrument :
MSVOA_Y
ClientSampleId :
72-11977

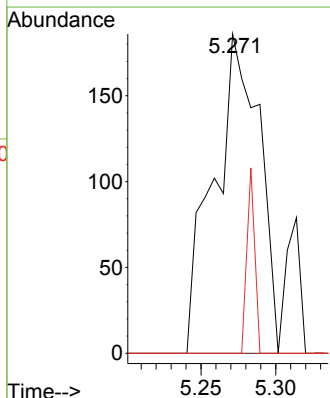
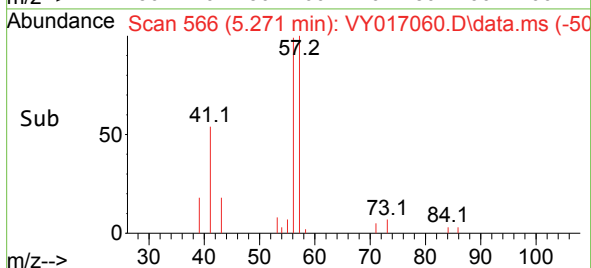
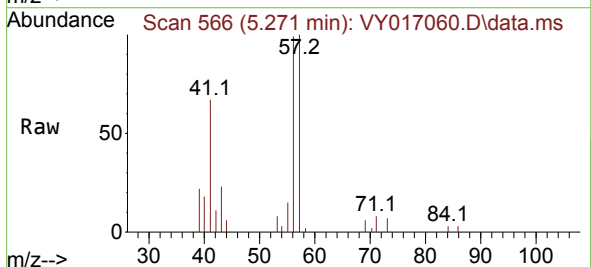


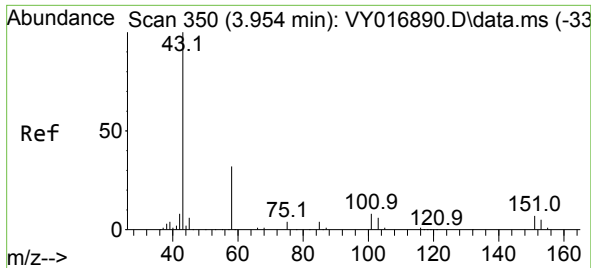
Tgt Ion: 56 Resp: 89
Ion Ratio Lower Upper
56 100
55 6129.2 55.4 83.0#



#15
Acrylonitrile
Concen: 1.450 ug/l
RT: 5.271 min Scan# 566
Delta R.T. 0.092 min
Lab File: VY017060.D
Acq: 19 Jan 2024 16:56

Tgt Ion: 53 Resp: 394
Ion Ratio Lower Upper
53 100
52 0.0 65.1 97.7#
51 10.2 29.0 43.4#

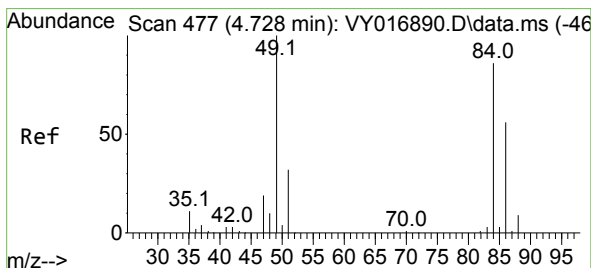
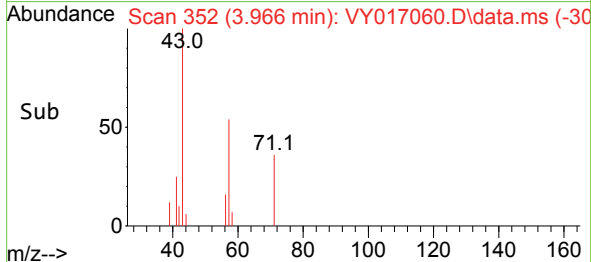
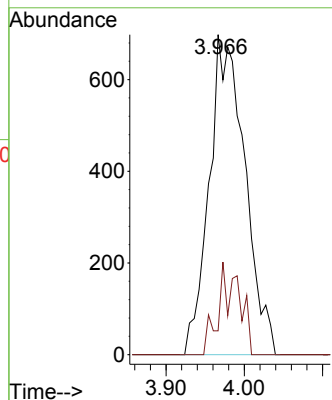
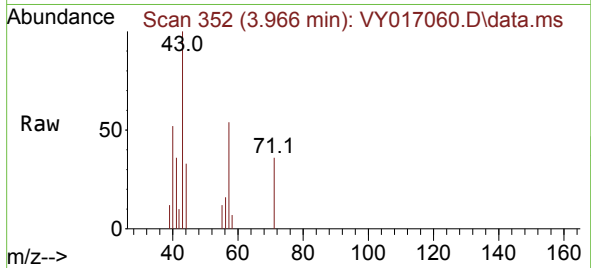




#16
Acetone
Concen: Below Cal
RT: 3.966 min Scan# 311
Delta R.T. 0.006 min
Lab File: VY017060.D
Acq: 19 Jan 2024 16:56

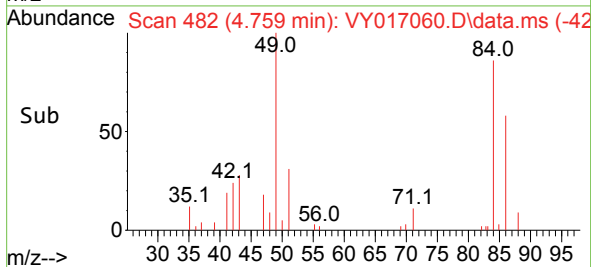
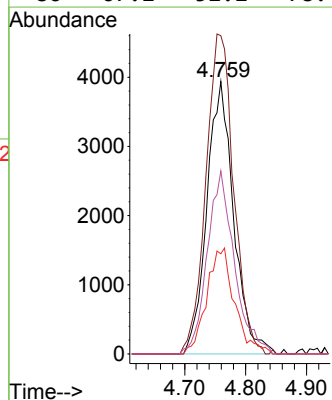
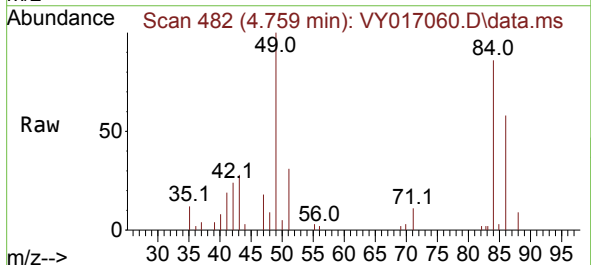
Instrument :
MSVOA_Y
ClientSampleId :
72-11977

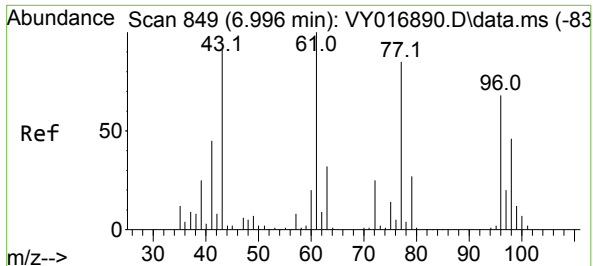
Tgt Ion: 43 Resp: 2205
Ion Ratio Lower Upper
43 100
58 7.4 26.6 39.8#



#20
Methylene Chloride
Concen: 2.110 ug/l
RT: 4.759 min Scan# 482
Delta R.T. 0.025 min
Lab File: VY017060.D
Acq: 19 Jan 2024 16:56

Tgt Ion: 84 Resp: 12061
Ion Ratio Lower Upper
84 100
49 116.8 95.2 142.8
51 36.7 29.9 44.9
86 67.2 52.2 78.4

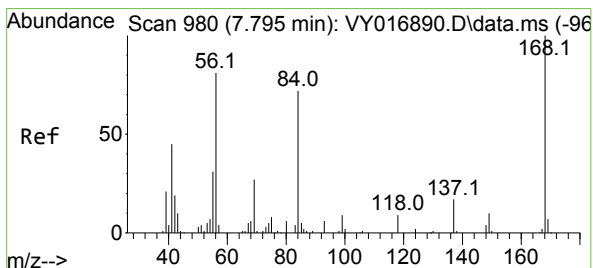
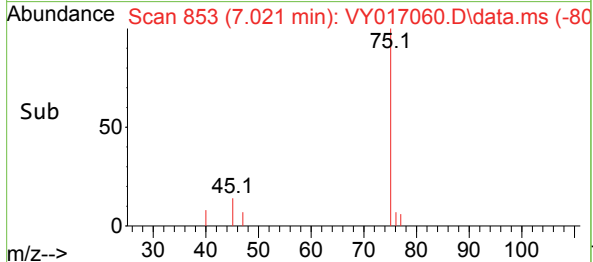
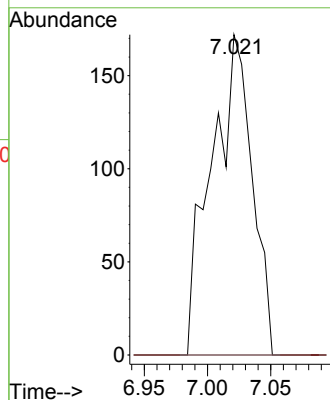
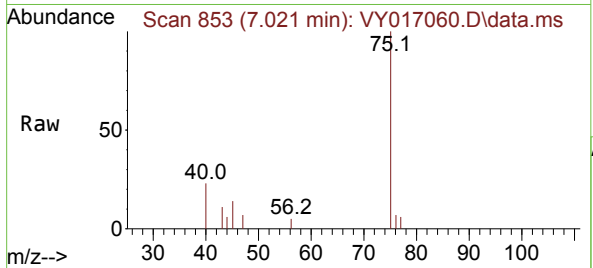




#25
2-Butanone
Concen: Below Cal
RT: 7.021 min Scan# 81
Delta R.T. 0.025 min
Lab File: VY017060.D
Acq: 19 Jan 2024 16:56

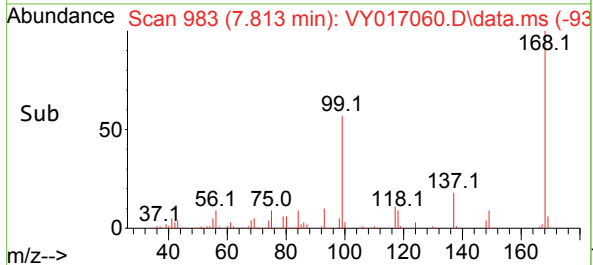
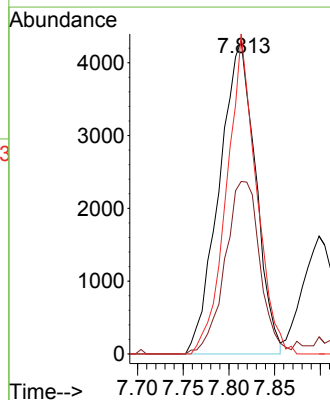
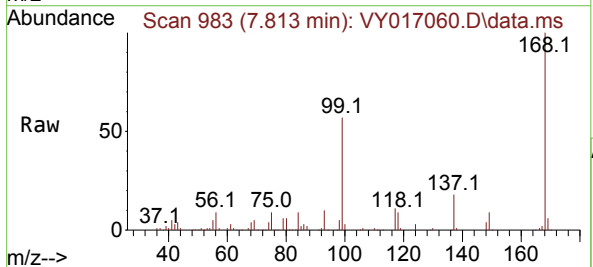
Instrument :
MSVOA_Y
ClientSampleId :
72-11977

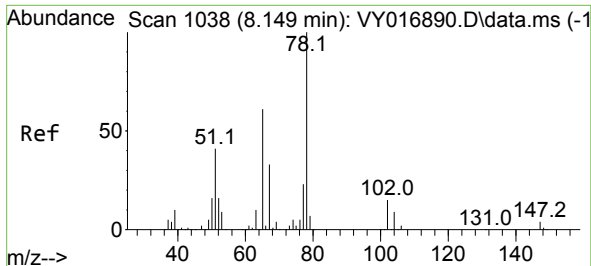
Tgt Ion: 43 Resp: 385
Ion Ratio Lower Upper
43 100
72 0.0 21.4 32.2#



#31
Cyclohexane
Concen: 6.573 ug/l
RT: 7.813 min Scan# 983
Delta R.T. 0.012 min
Lab File: VY017060.D
Acq: 19 Jan 2024 16:56

Tgt Ion: 56 Resp: 11874
Ion Ratio Lower Upper
56 100
69 55.1 27.0 40.6#
84 102.2 71.8 107.6

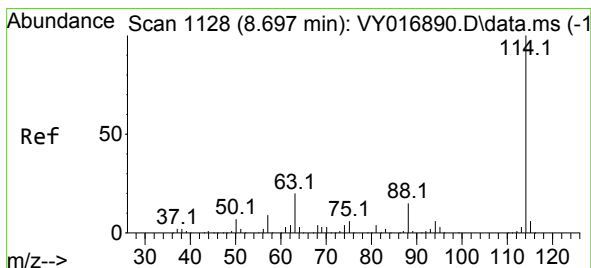
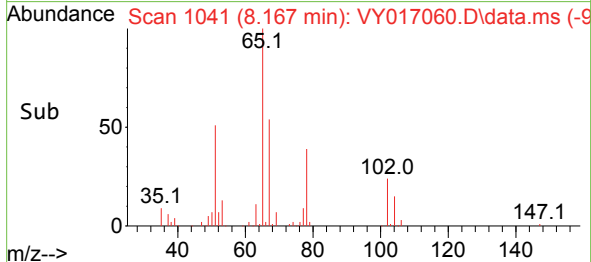
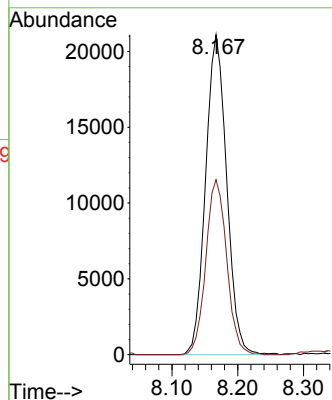
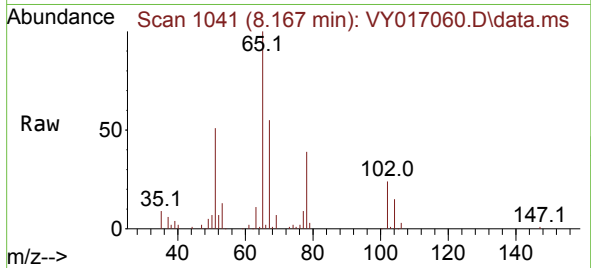




#33
1,2-Dichloroethane-d4
Concen: 44.730 ug/l
RT: 8.167 min Scan# 1103
Delta R.T. 0.012 min
Lab File: VY017060.D
Acq: 19 Jan 2024 16:56

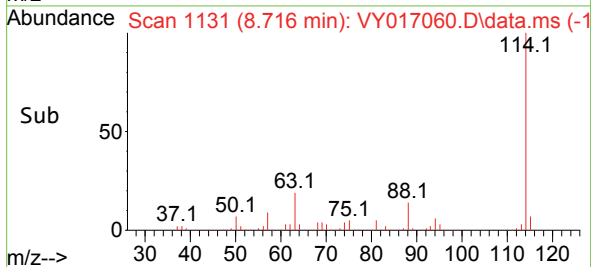
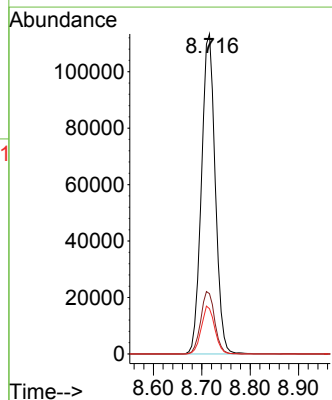
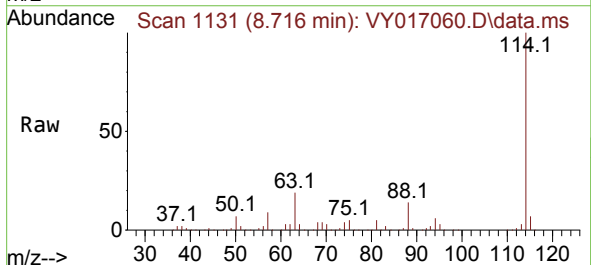
Instrument :
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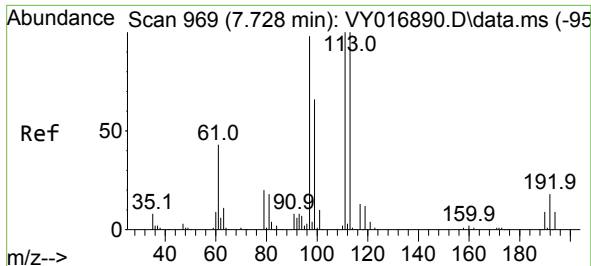
Tgt Ion: 65 Resp: 47082
Ion Ratio Lower Upper
65 100
67 54.2 0.0 109.0



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.716 min Scan# 1131
Delta R.T. 0.013 min
Lab File: VY017060.D
Acq: 19 Jan 2024 16:56

Tgt Ion:114 Resp: 224345
Ion Ratio Lower Upper
114 100
63 18.9 0.0 37.4
88 14.1 0.0 29.0

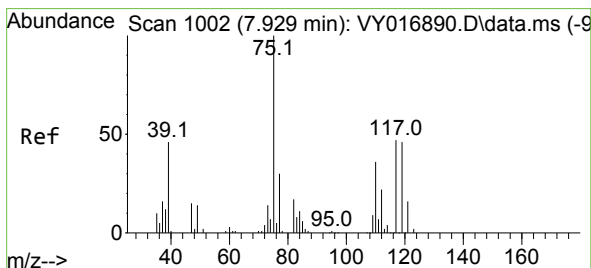
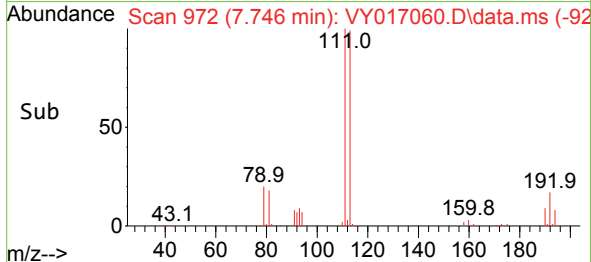
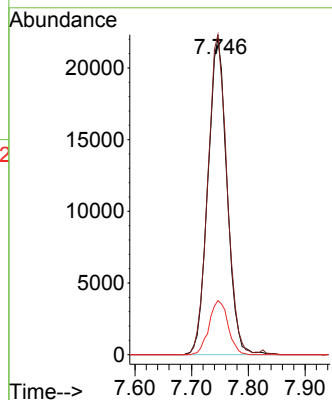
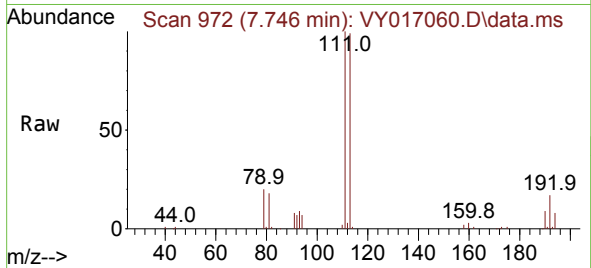




#35
Dibromofluoromethane
Concen: 36.122 ug/l
RT: 7.746 min Scan# 91
Delta R.T. 0.018 min
Lab File: VY017060.D
Acq: 19 Jan 2024 16:56

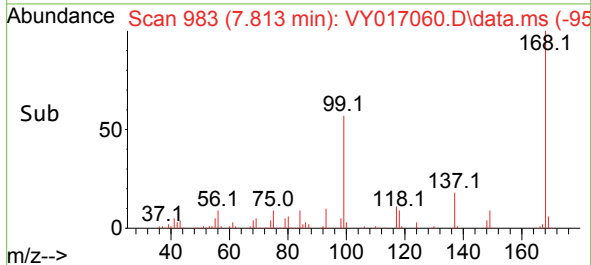
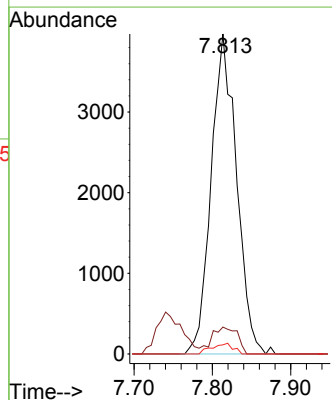
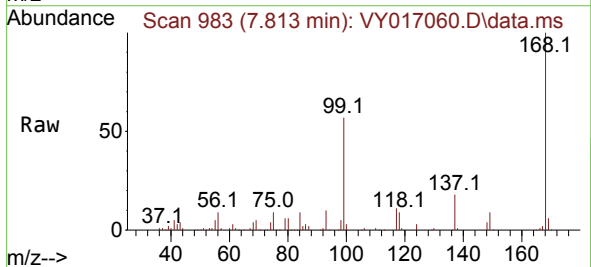
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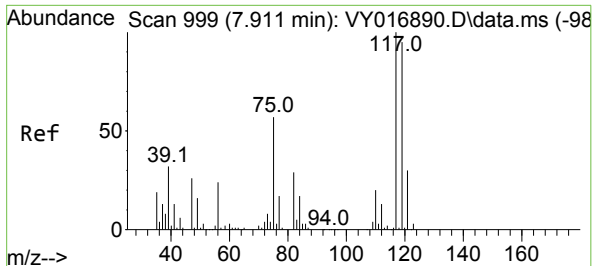
Tgt Ion:113 Resp: 51641
Ion Ratio Lower Upper
113 100
111 101.1 83.8 125.6
192 17.0 14.5 21.7



#36
1,1-Dichloropropene
Concen: 4.285 ug/l
RT: 7.813 min Scan# 983
Delta R.T. -0.116 min
Lab File: VY017060.D
Acq: 19 Jan 2024 16:56

Tgt Ion: 75 Resp: 8928
Ion Ratio Lower Upper
75 100
110 8.5 17.4 52.3#
77 0.0 24.7 37.1#

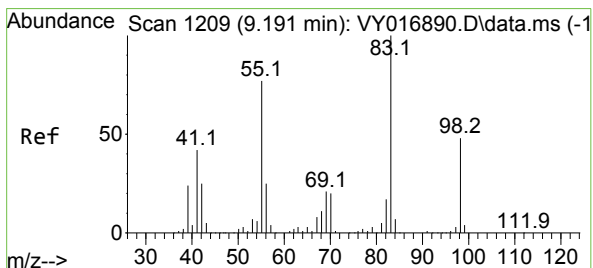
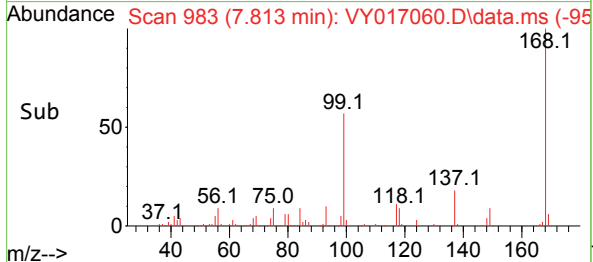
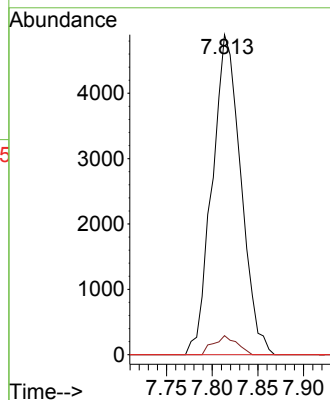
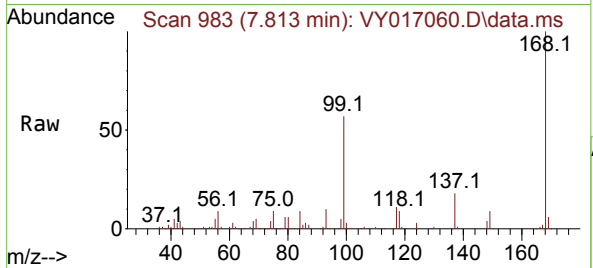




#38
Carbon Tetrachloride
Concen: 5.055 ug/l
RT: 7.813 min Scan# 91
Delta R.T. -0.104 min
Lab File: VY017060.D
Acq: 19 Jan 2024 16:56

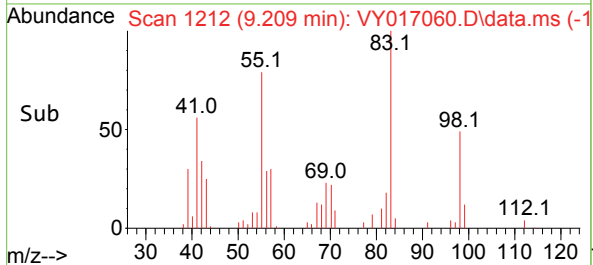
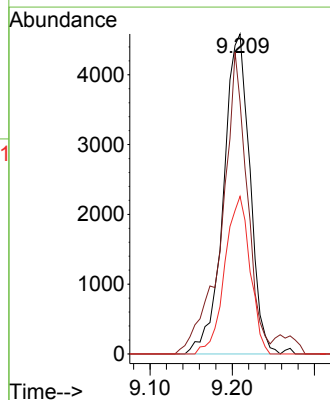
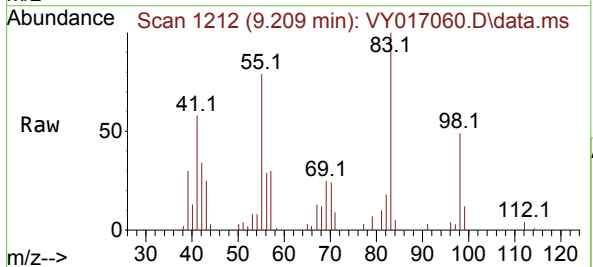
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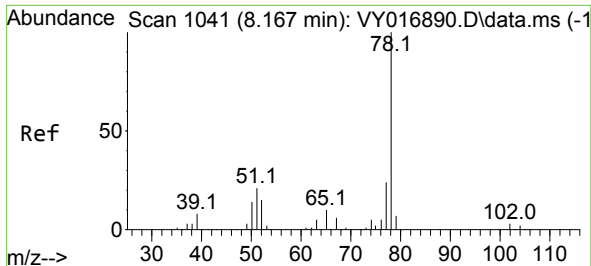
Tgt Ion:117 Resp: 10700
Ion Ratio Lower Upper
117 100
119 5.9 76.0 114.0#
121 0.0 24.2 36.2#



#39
Methylcyclohexane
Concen: 4.350 ug/l
RT: 9.209 min Scan# 1212
Delta R.T. 0.018 min
Lab File: VY017060.D
Acq: 19 Jan 2024 16:56

Tgt Ion: 83 Resp: 10188
Ion Ratio Lower Upper
83 100
55 77.4 59.7 89.5
98 49.3 38.0 57.0

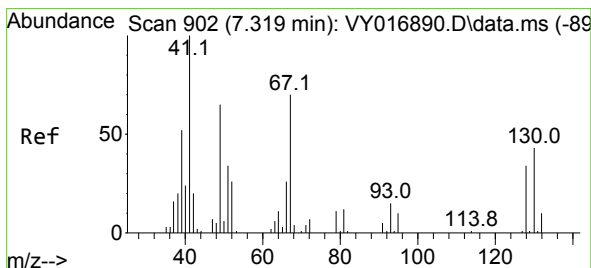
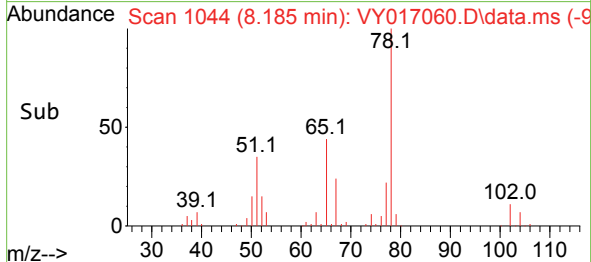
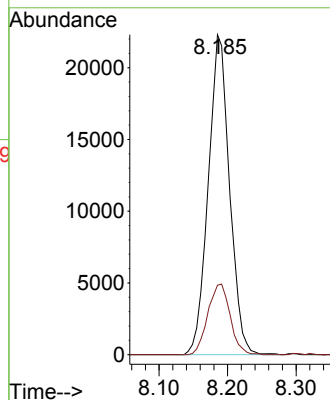
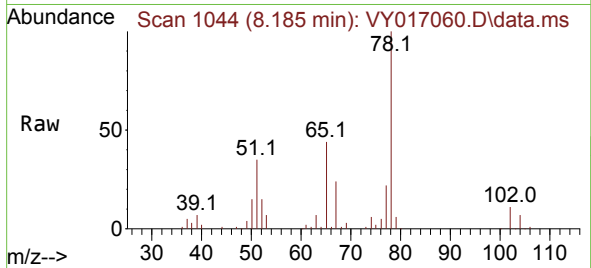




#40
Benzene
Concen: 7.692 ug/l
RT: 8.185 min Scan# 1041
Delta R.T. 0.012 min
Lab File: VY017060.D
Acq: 19 Jan 2024 16:56

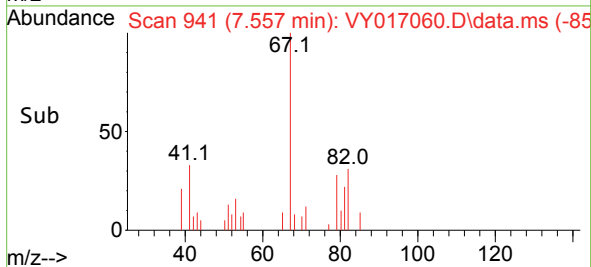
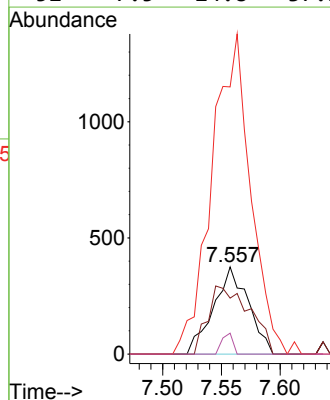
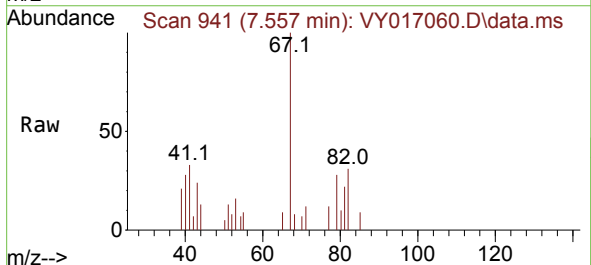
Instrument :
MSVOA_Y
ClientSampleId :
72-11977

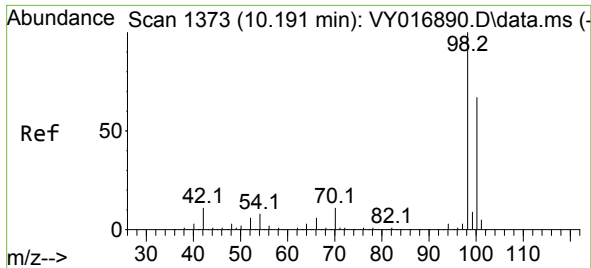
Tgt Ion: 78 Resp: 48073
Ion Ratio Lower Upper
78 100
77 21.7 18.8 28.2



#41
Methacrylonitrile
Concen: 1.548 ug/l
RT: 7.557 min Scan# 941
Delta R.T. 0.238 min
Lab File: VY017060.D
Acq: 19 Jan 2024 16:56

Tgt Ion: 41 Resp: 772
Ion Ratio Lower Upper
41 100
39 93.7 41.9 62.9#
67 408.4 59.8 89.6#
52 7.5 24.8 37.2#

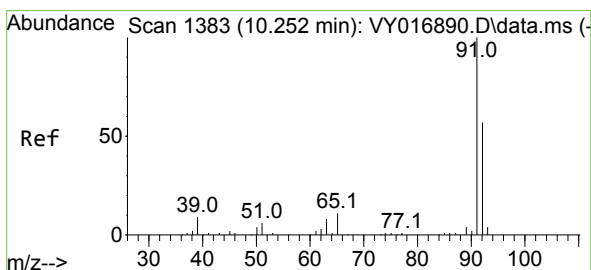
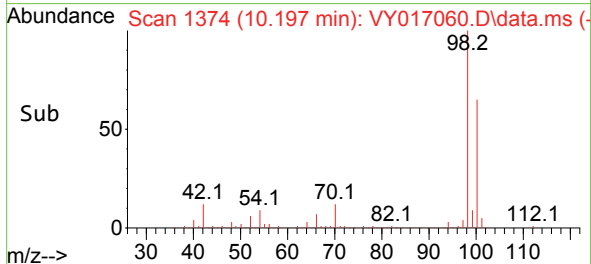
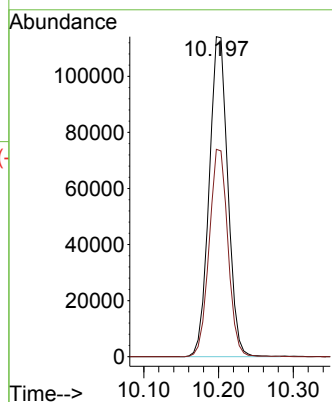
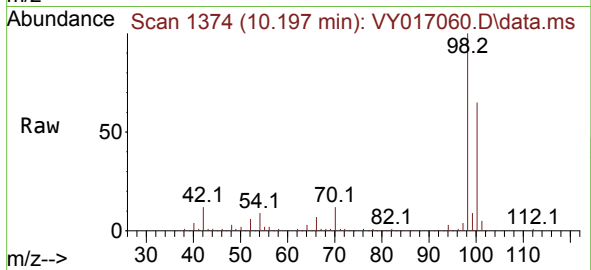




#50
Toluene-d8
Concen: 40.173 ug/l
RT: 10.197 min Scan# 11
Delta R.T. 0.006 min
Lab File: VY017060.D
Acq: 19 Jan 2024 16:56

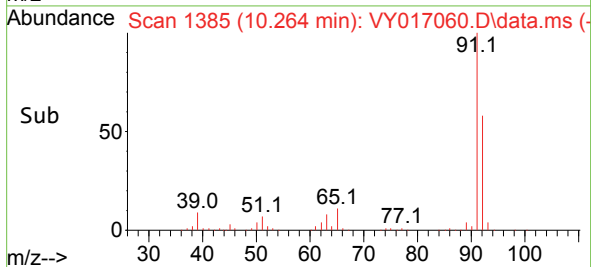
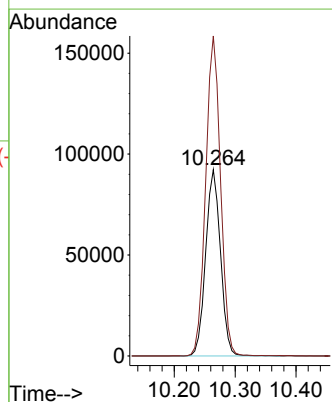
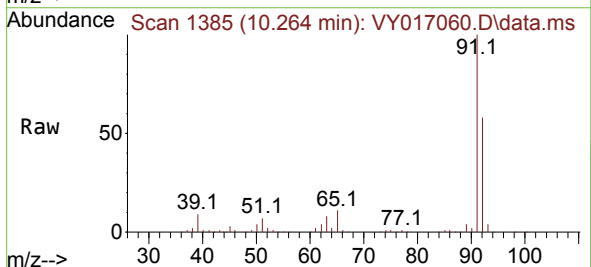
Instrument :
MSVOA_Y
ClientSampleId :
72-11977

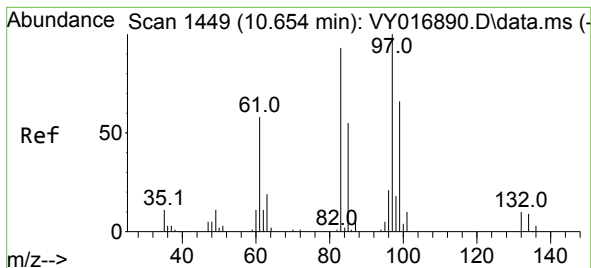
Tgt Ion: 98 Resp: 197767
Ion Ratio Lower Upper
98 100
100 64.9 52.3 78.5



#52
Toluene
Concen: 41.351 ug/l
RT: 10.264 min Scan# 1385
Delta R.T. 0.012 min
Lab File: VY017060.D
Acq: 19 Jan 2024 16:56

Tgt Ion: 92 Resp: 155971
Ion Ratio Lower Upper
92 100
91 171.9 137.6 206.4

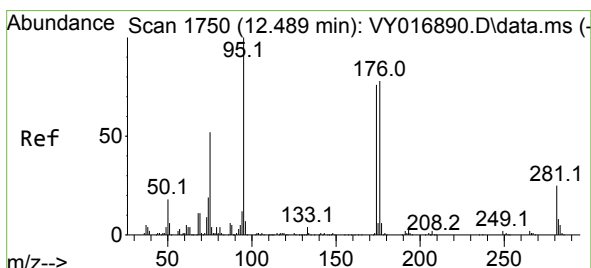
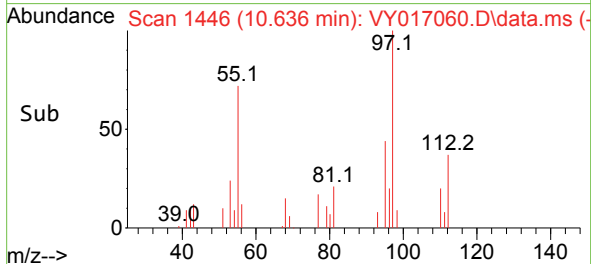
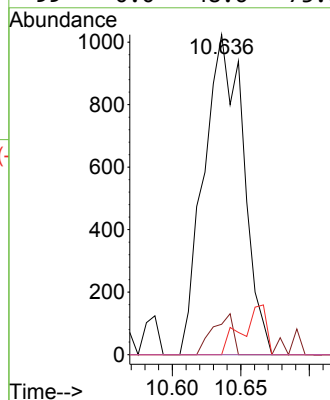
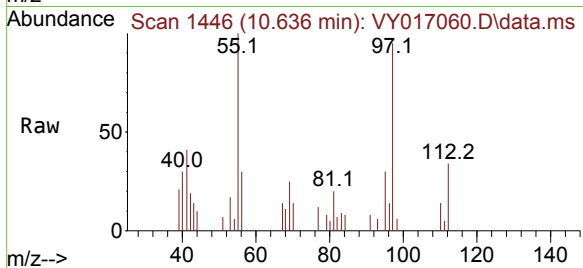




#55
1,1,2-Trichloroethane
Concen: 1.713 ug/l
RT: 10.636 min Scan# 1446
Delta R.T. -0.018 min
Lab File: VY017060.D
Acq: 19 Jan 2024 16:56

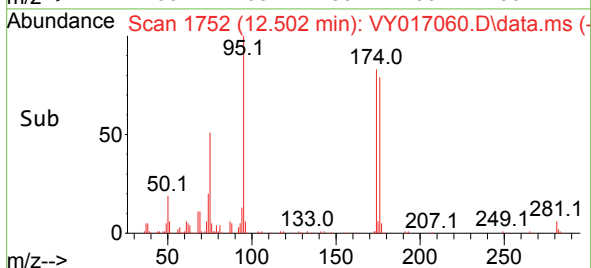
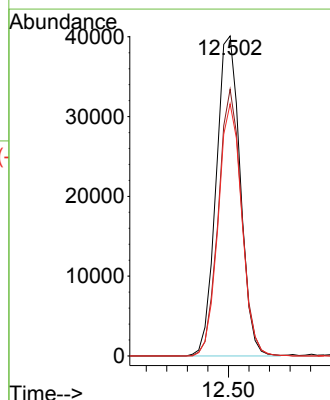
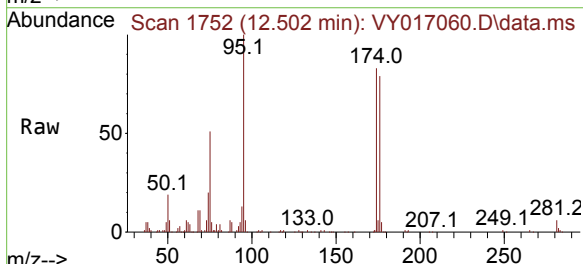
Instrument :
MSVOA_Y
ClientSampleId :
72-11977

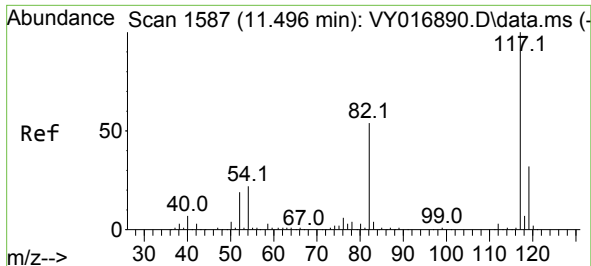
Tgt Ion: 97	Resp: 2055
Ion Ratio	Lower Upper
97 100	
83 9.5	69.4 104.2#
85 0.0	43.9 65.9#
99 0.0	48.6 73.0#



#62
4-Bromofluorobenzene
Concen: 39.243 ug/l
RT: 12.502 min Scan# 1752
Delta R.T. 0.013 min
Lab File: VY017060.D
Acq: 19 Jan 2024 16:56

Tgt Ion: 95	Resp: 65180
Ion Ratio	Lower Upper
95 100	
174 80.3	0.0 160.0
176 77.1	0.0 151.8

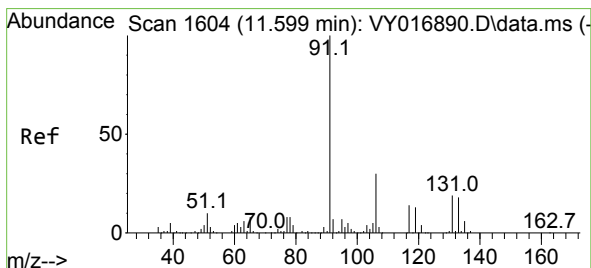
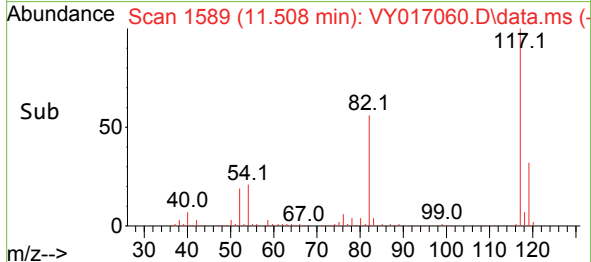
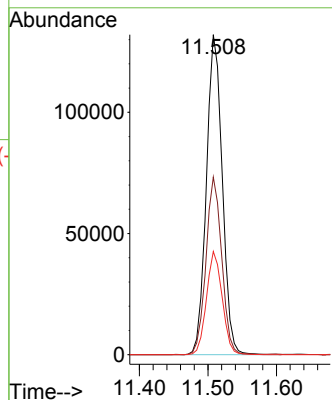
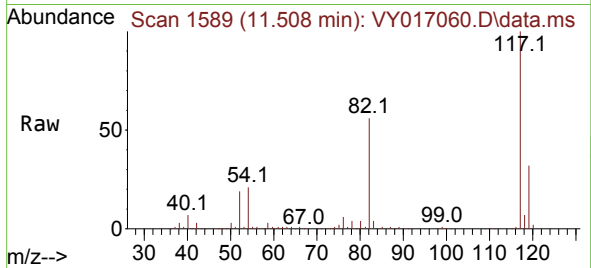




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.508 min Scan# 11
Delta R.T. 0.006 min
Lab File: VY017060.D
Acq: 19 Jan 2024 16:56

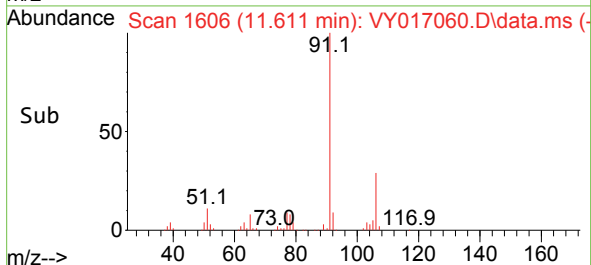
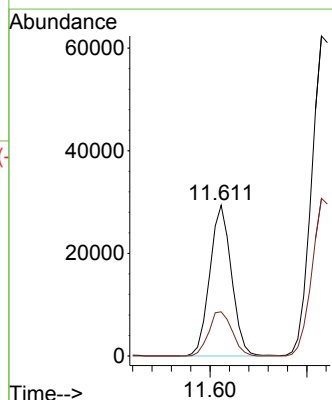
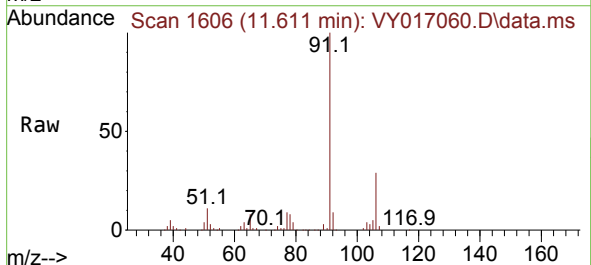
Instrument :
MSVOA_Y
ClientSampleId :
72-11977

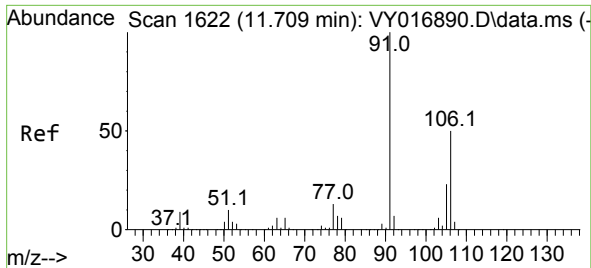
Tgt Ion:117 Resp: 213581
Ion Ratio Lower Upper
117 100
82 55.4 43.8 65.8
119 32.3 26.5 39.7



#67
Ethyl Benzene
Concen: 5.714 ug/l
RT: 11.611 min Scan# 1606
Delta R.T. 0.012 min
Lab File: VY017060.D
Acq: 19 Jan 2024 16:56

Tgt Ion: 91 Resp: 45771
Ion Ratio Lower Upper
91 100
106 29.3 25.0 37.4

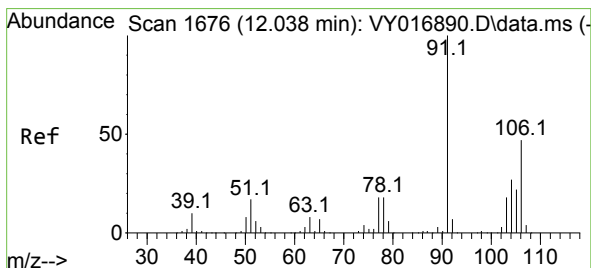
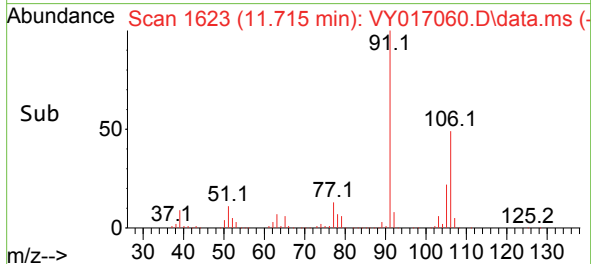
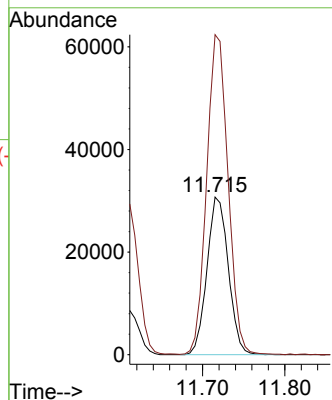
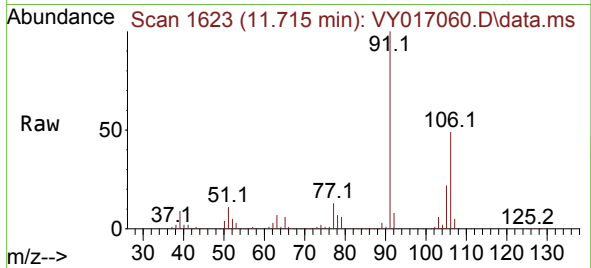




#68
m/p-Xylenes
Concen: 18.857 ug/l
RT: 11.715 min Scan# 1623
Delta R.T. 0.006 min
Lab File: VY017060.D
Acq: 19 Jan 2024 16:56

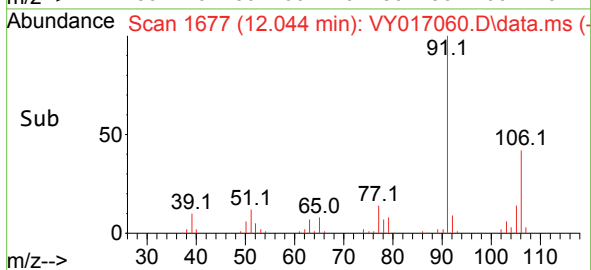
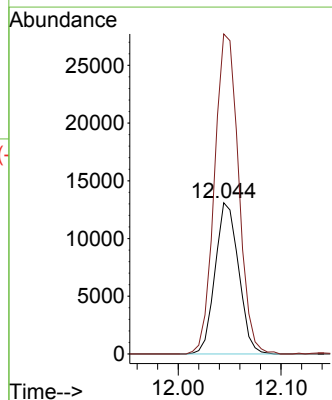
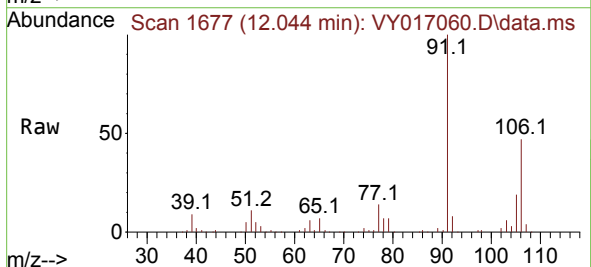
Instrument :
MSVOA_Y
ClientSampleId :
72-11977

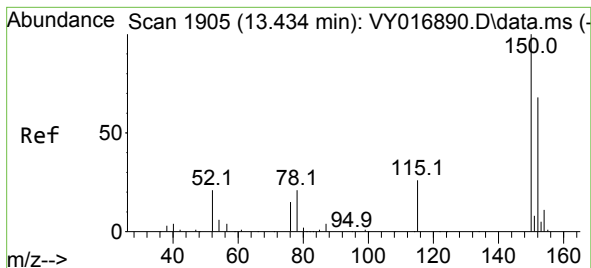
Tgt Ion:106 Resp: 55444
Ion Ratio Lower Upper
106 100
91 203.6 160.7 241.1



#69
o-Xylene
Concen: 7.534 ug/l
RT: 12.044 min Scan# 1677
Delta R.T. 0.006 min
Lab File: VY017060.D
Acq: 19 Jan 2024 16:56

Tgt Ion:106 Resp: 20768
Ion Ratio Lower Upper
106 100
91 217.4 106.5 319.5





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.447 min Scan# 1907

Delta R.T. 0.013 min

Lab File: VY017060.D

Acq: 19 Jan 2024 16:56

Instrument :

MSVOA_Y

ClientSampleId :

72-11977

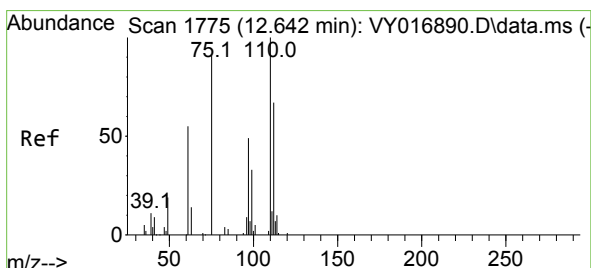
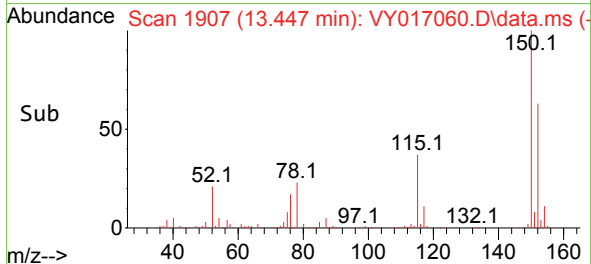
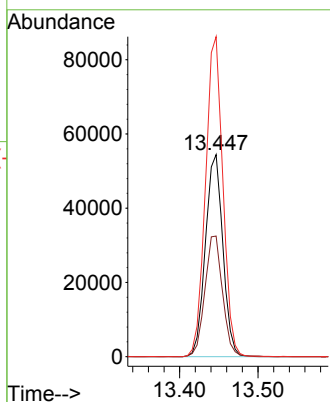
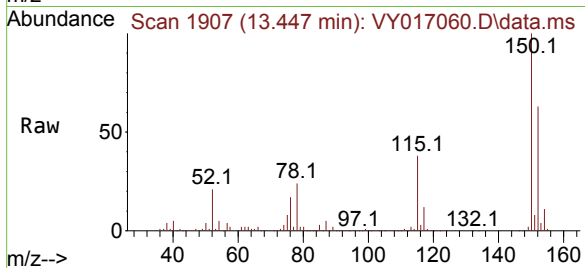
Tgt Ion:152 Resp: 84210

Ion Ratio Lower Upper

152 100

115 60.4 30.0 90.0

150 157.3 0.0 344.6



#76

1,2,3-Trichloropropane

Concen: 36.984 ug/l

RT: 12.495 min Scan# 1751

Delta R.T. -0.147 min

Lab File: VY017060.D

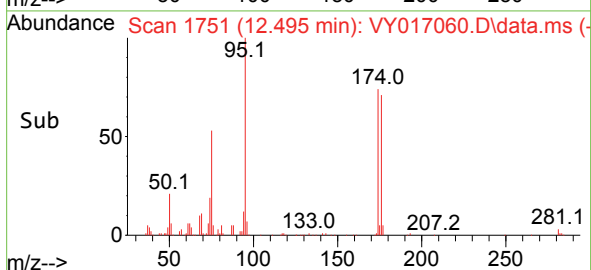
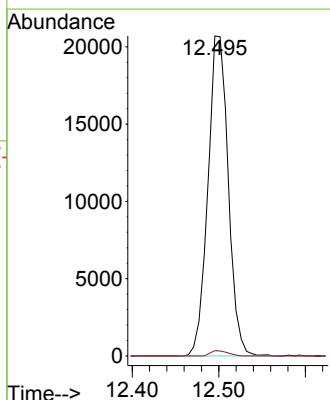
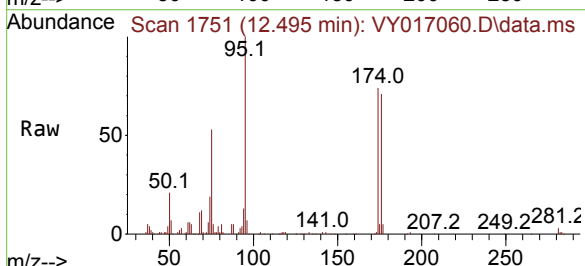
Acq: 19 Jan 2024 16:56

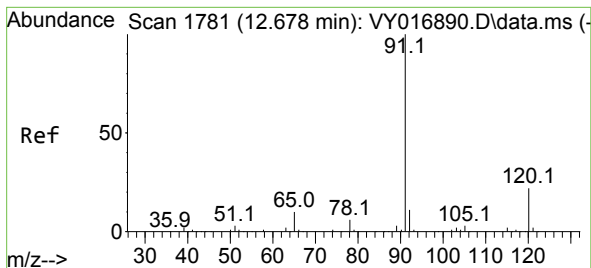
Tgt Ion: 75 Resp: 33797

Ion Ratio Lower Upper

75 100

77 1.4 0.0 0.0#





#78

n-propylbenzene

Concen: 1.274 ug/l

RT: 12.691 min Scan# 1

Delta R.T. 0.013 min

Lab File: VY017060.D

Acq: 19 Jan 2024 16:56

Instrument :

MSVOA_Y

ClientSampleId :

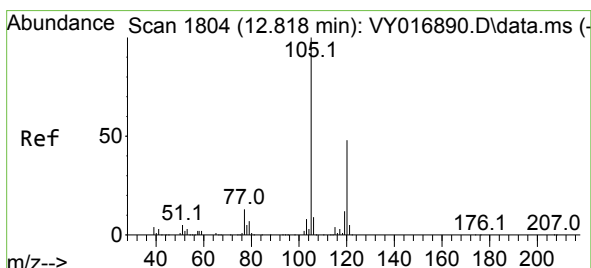
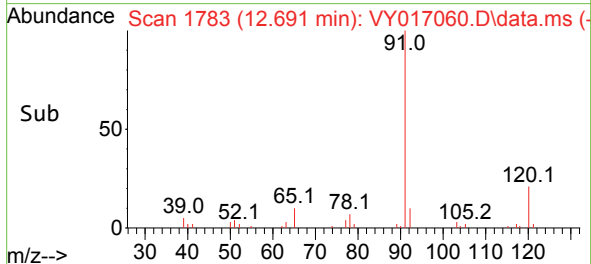
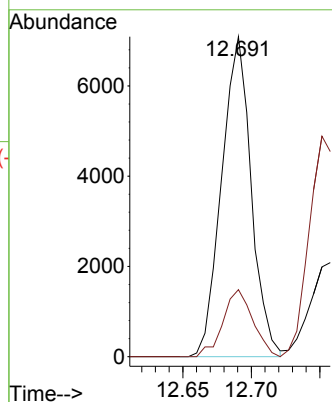
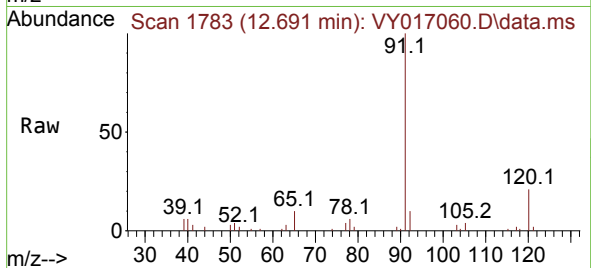
72-11977

Tgt Ion: 91 Resp: 10651

Ion Ratio Lower Upper

91 100

120 21.1 11.0 33.0



#80

1,3,5-Trimethylbenzene

Concen: 1.542 ug/l

RT: 12.831 min Scan# 1806

Delta R.T. 0.013 min

Lab File: VY017060.D

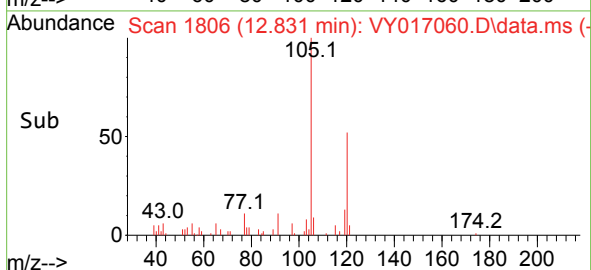
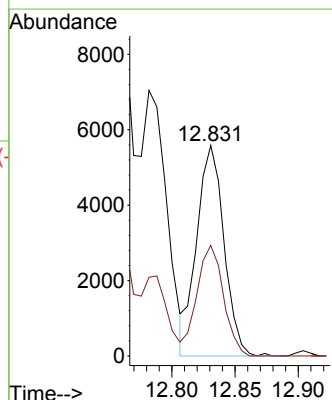
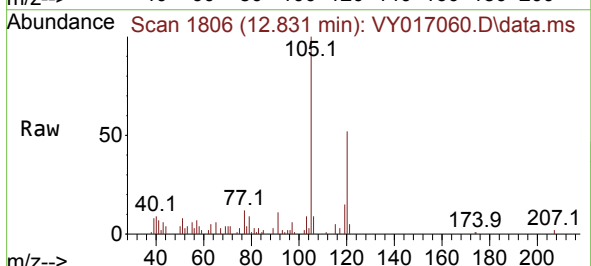
Acq: 19 Jan 2024 16:56

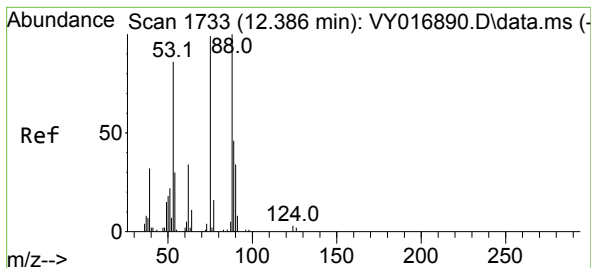
Tgt Ion:105 Resp: 8384

Ion Ratio Lower Upper

105 100

120 51.2 24.3 72.8

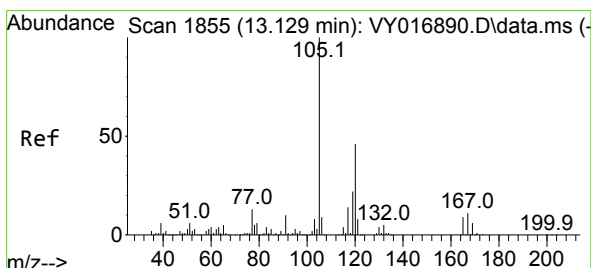
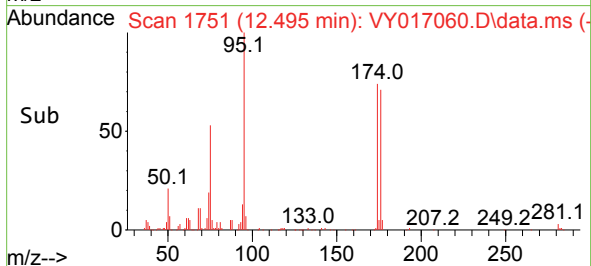
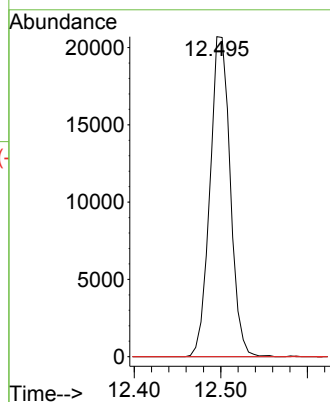
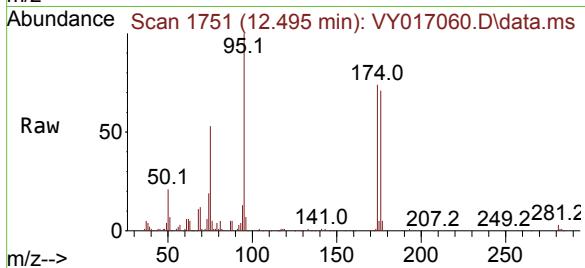




#81
trans-1,4-Dichloro-2-butene
Concen: 83.981 ug/l
RT: 12.495 min Scan# 1751
Delta R.T. 0.110 min
Lab File: VY017060.D
Acq: 19 Jan 2024 16:56

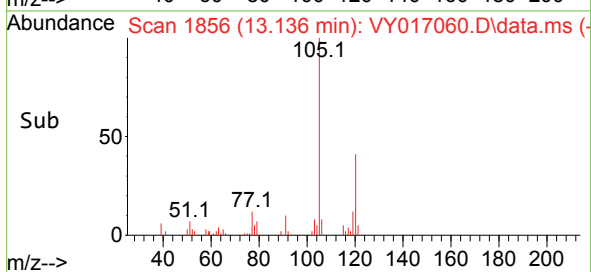
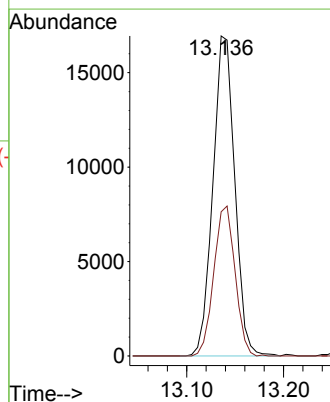
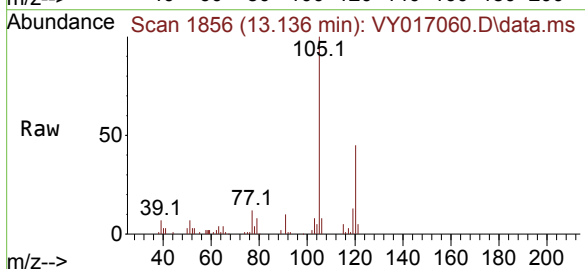
Instrument :
MSVOA_Y
ClientSampleId :
72-11977

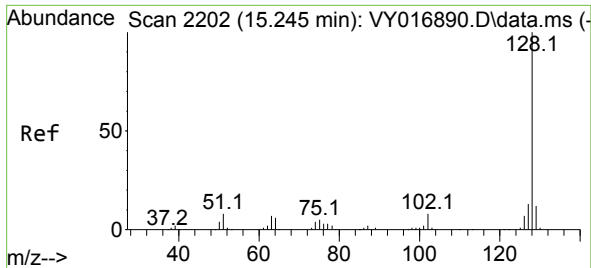
Tgt Ion: 75 Resp: 33797
Ion Ratio Lower Upper
75 100
53 0.0 74.0 111.0#
89 0.0 36.5 54.7#



#84
1,2,4-Trimethylbenzene
Concen: 4.966 ug/l
RT: 13.136 min Scan# 1856
Delta R.T. 0.007 min
Lab File: VY017060.D
Acq: 19 Jan 2024 16:56

Tgt Ion: 105 Resp: 26596
Ion Ratio Lower Upper
105 100
120 45.6 22.1 66.3





#95

Naphthalene

Concen: 1.130 ug/l

RT: 15.257 min Scan# 21

Delta R.T. 0.012 min

Lab File: VY017060.D

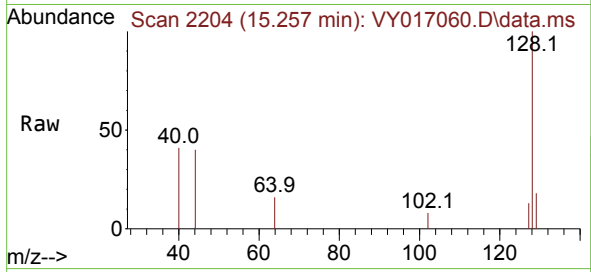
Acq: 19 Jan 2024 16:56

Instrument :

MSVOA_Y

ClientSampleId :

72-11977



Tgt Ion:128 Resp: 1271

Ion Ratio Lower Upper

128 100

127 7.4 10.2 15.4#

129 9.0 8.6 12.8

