

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY030824\
 Data File : VY017624.D
 Acq On : 08 Mar 2024 16:47
 Operator : SY/MD
 Sample : P1724-03
 Misc : 5.01g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 90

Quant Time: Mar 08 22:25:24 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022324S.M
 Quant Title : SW846 8260
 QLast Update : Sat Feb 24 04:41:20 2024
 Response via : Initial Calibration

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

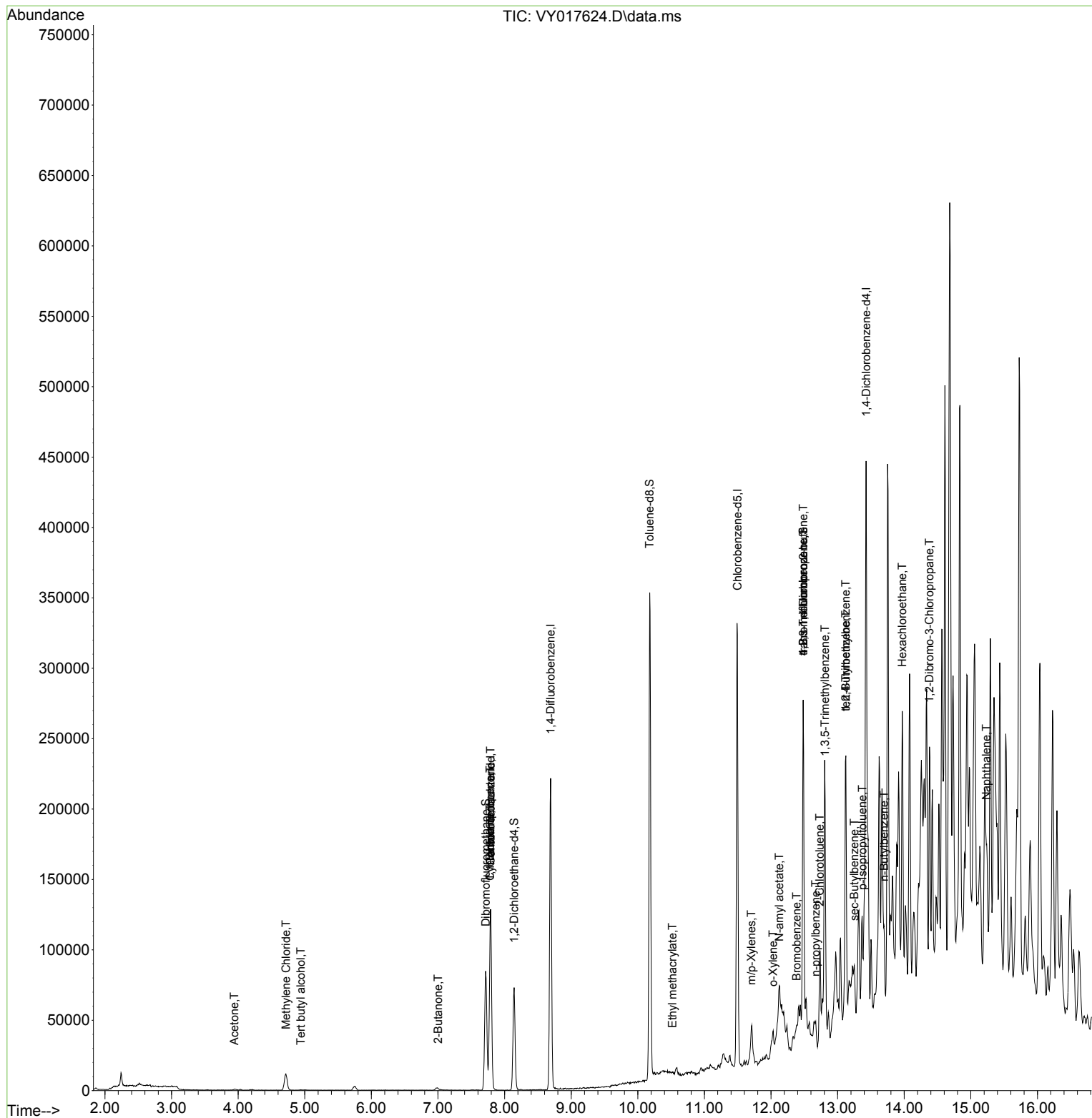
Internal Standards						
1) Pentafluorobenzene	7.789	168	104123	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.691	114	195867	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.495	117	176596	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.428	152	74520	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.142	65	53930	54.651	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 109.300%			
35) Dibromofluoromethane	7.715	113	60793	44.541	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 89.080%			
50) Toluene-d8	10.178	98	235445	49.338	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 98.680%			
62) 4-Bromofluorobenzene	12.483	95	68826	45.892	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 91.780%			
Target Compounds						Qvalue
11) Tert butyl alcohol	4.941	59	474	5.655	ug/l #	88
16) Acetone	3.942	43	1312	6.855	ug/l	95
20) Methylene Chloride	4.716	84	9256	3.092	ug/l	96
25) 2-Butanone	7.002	43	295	1.081	ug/l #	41
31) Cyclohexane	7.782	56	1993	1.241	ug/l #	8
36) 1,1-Dichloropropene	7.782	75	7956	4.320	ug/l #	48
38) Carbon Tetrachloride	7.789	117	9852	5.338	ug/l #	17
56) Ethyl methacrylate	10.520	69	478	2.886	ug/l #	69
68) m/p-Xylenes	11.702	106	4560	1.765	ug/l	99
69) o-Xylene	12.032	106	4101	1.711	ug/l	98
74) N-amyl acetate	12.123	43	3466	3.550	ug/l #	1
76) 1,2,3-Trichloropropane	12.483	75	35533	50.184	ug/l #	100
77) Bromobenzene	12.385	156	3362	2.508	ug/l #	1
78) n-propylbenzene	12.672	91	12720	1.915	ug/l	95
79) 2-Chlorotoluene	12.733	91	4667	1.255	ug/l #	39
80) 1,3,5-Trimethylbenzene	12.812	105	23885	5.385	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.483	75	35533	115.312	ug/l #	16
83) tert-Butylbenzene	13.123	119	12676	3.254	ug/l #	66
84) 1,2,4-Trimethylbenzene	13.123	105	101629	23.209	ug/l	99
85) sec-Butylbenzene	13.251	105	12542	2.106	ug/l	82
86) p-Isopropyltoluene	13.373	119	8273	1.697	ug/l	91
89) n-Butylbenzene	13.696	91	22133	4.976	ug/l #	74
90) Hexachloroethane	13.970	117	8099	8.287	ug/l #	12
92) 1,2-Dibromo-3-Chloropr...	14.379	75	236	1.766	ug/l	62
95) Naphthalene	15.232	128	37601	18.790	ug/l #	92

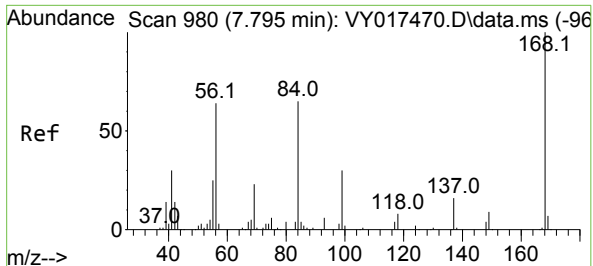
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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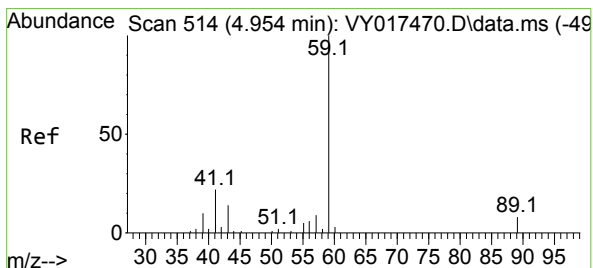
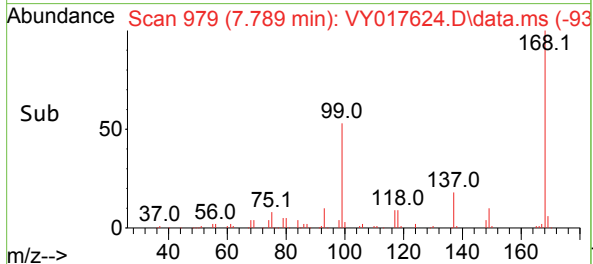
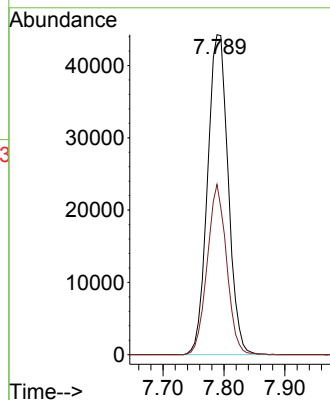
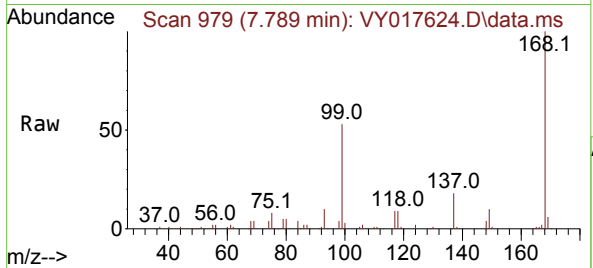




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.789 min Scan# 91
Delta R.T. -0.006 min
Lab File: VY017624.D
Acq: 08 Mar 2024 16:47

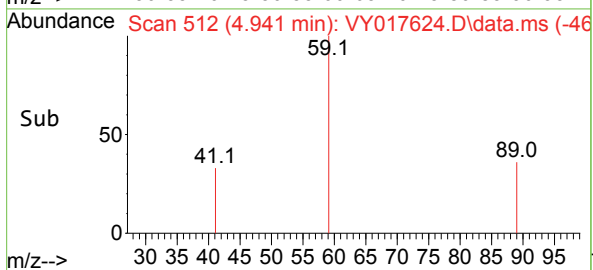
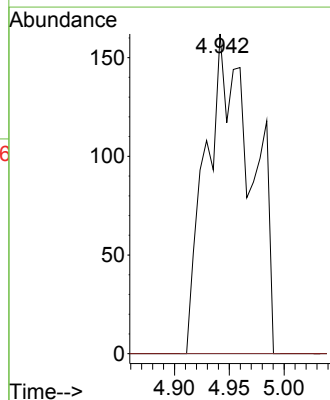
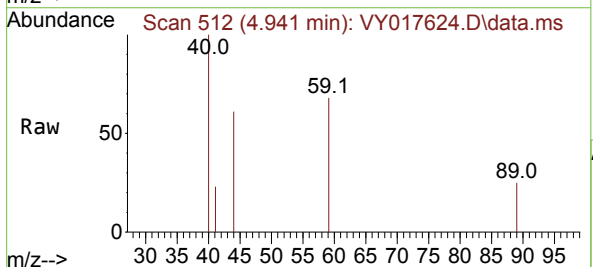
Instrument :
MSVOA_Y
ClientSampleId :
90

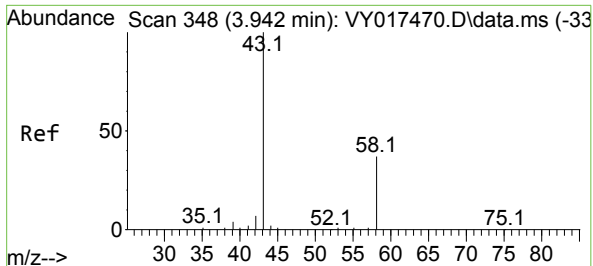
Tgt Ion:168 Resp: 104123
Ion Ratio Lower Upper
168 100
99 53.2 39.1 58.7



#11
Tert butyl alcohol
Concen: 5.655 ug/l
RT: 4.941 min Scan# 512
Delta R.T. -0.013 min
Lab File: VY017624.D
Acq: 08 Mar 2024 16:47

Tgt Ion: 59 Resp: 474
Ion Ratio Lower Upper
59 100
57 0.0 3.0 4.6#

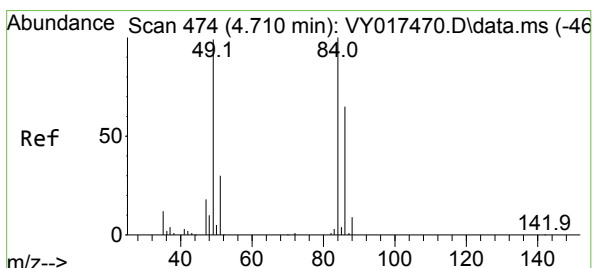
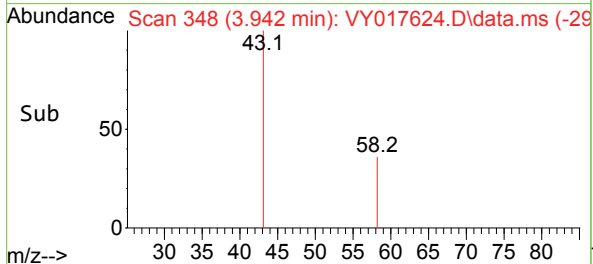
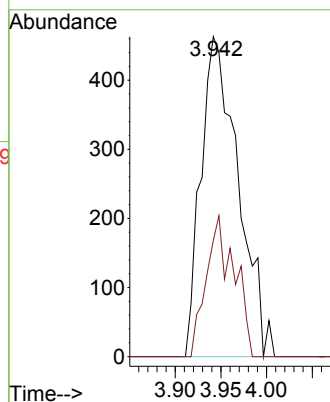
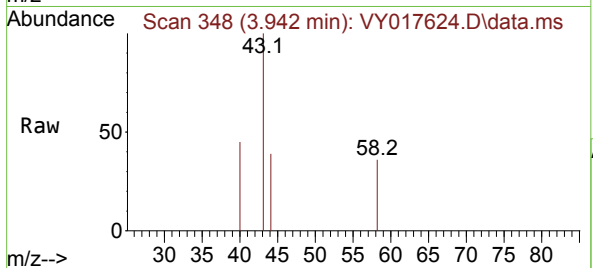




#16
Acetone
Concen: 6.855 ug/l
RT: 3.942 min Scan# 348
Delta R.T. -0.000 min
Lab File: VY017624.D
Acq: 08 Mar 2024 16:47

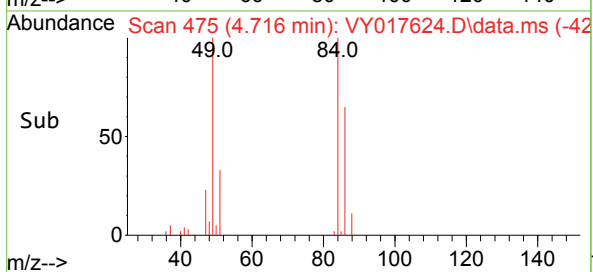
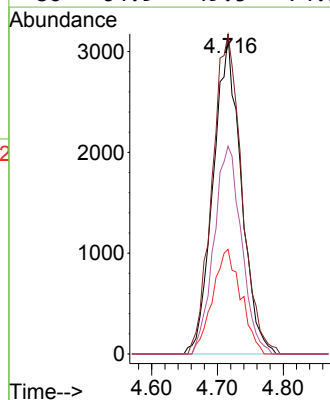
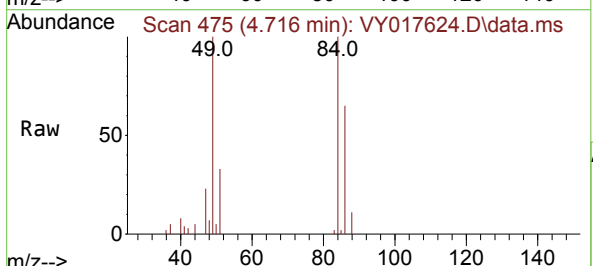
Instrument :
MSVOA_Y
ClientSampleId :
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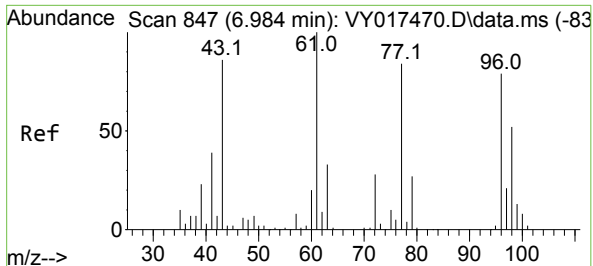
Tgt Ion: 43 Resp: 1312
Ion Ratio Lower Upper
43 100
58 36.3 31.7 47.5



#20
Methylene Chloride
Concen: 3.092 ug/l
RT: 4.716 min Scan# 475
Delta R.T. 0.006 min
Lab File: VY017624.D
Acq: 08 Mar 2024 16:47

Tgt Ion: 84 Resp: 9256
Ion Ratio Lower Upper
84 100
49 99.8 84.4 126.6
51 32.7 26.0 39.0
86 64.9 49.5 74.3

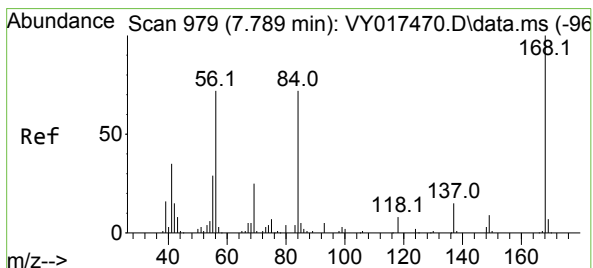
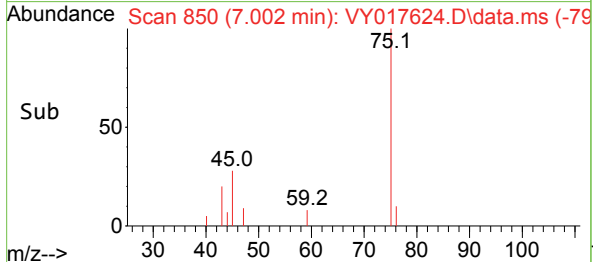
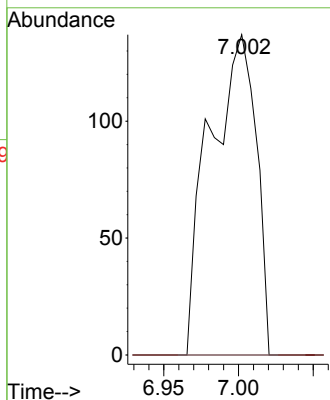
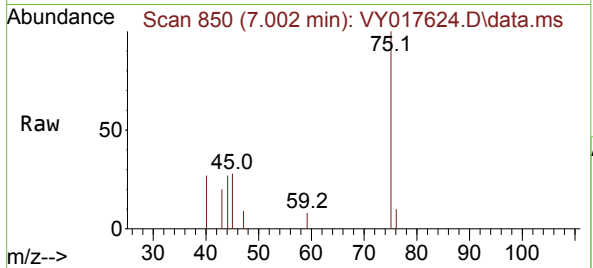




#25
2-Butanone
Concen: 1.081 ug/l
RT: 7.002 min Scan# 81
Delta R.T. 0.018 min
Lab File: VY017624.D
Acq: 08 Mar 2024 16:47

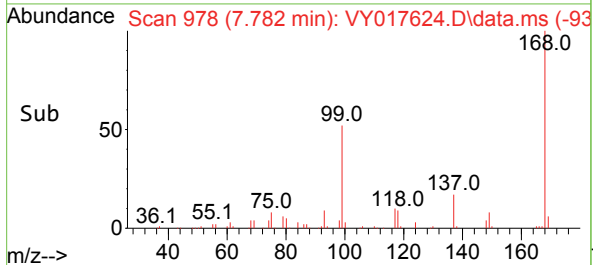
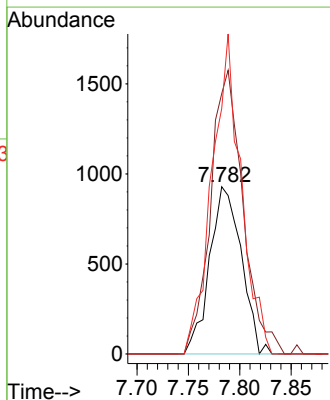
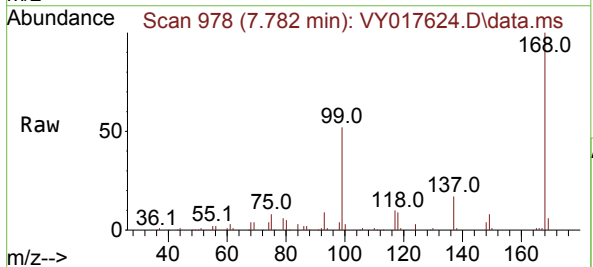
Instrument :
MSVOA_Y
ClientSampleId :
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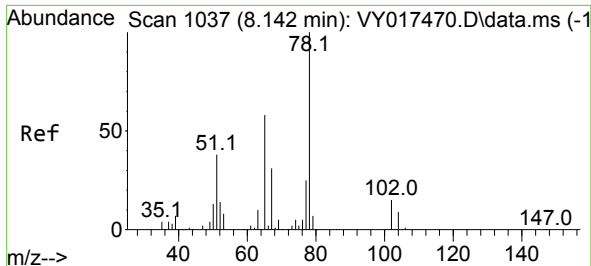
Tgt Ion: 43 Resp: 295
Ion Ratio Lower Upper
43 100
72 0.0 27.3 40.9#



#31
Cyclohexane
Concen: 1.241 ug/l
RT: 7.782 min Scan# 978
Delta R.T. -0.006 min
Lab File: VY017624.D
Acq: 08 Mar 2024 16:47

Tgt Ion: 56 Resp: 1993
Ion Ratio Lower Upper
56 100
69 155.7 28.7 43.1#
84 146.7 77.7 116.5#





#33

1,2-Dichloroethane-d4

Concen: 54.651 ug/l

RT: 8.142 min Scan# 1037

Delta R.T. -0.000 min

Lab File: VY017624.D

Acq: 08 Mar 2024 16:47

Instrument :

MSVOA_Y

ClientSampleId :

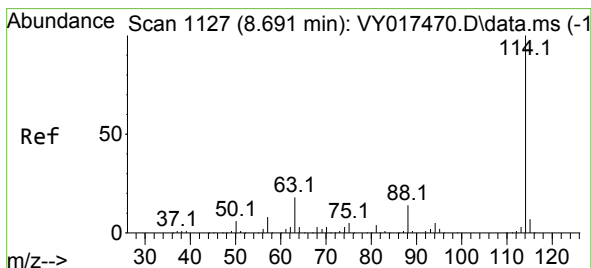
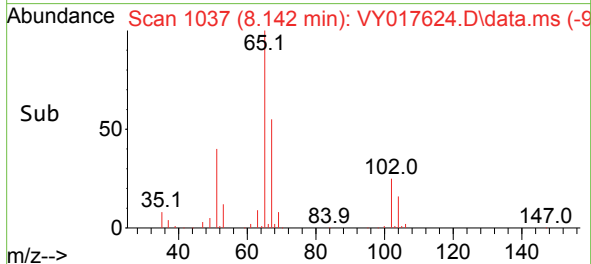
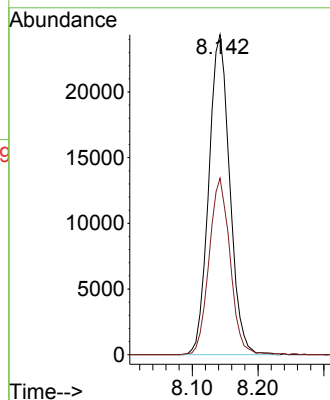
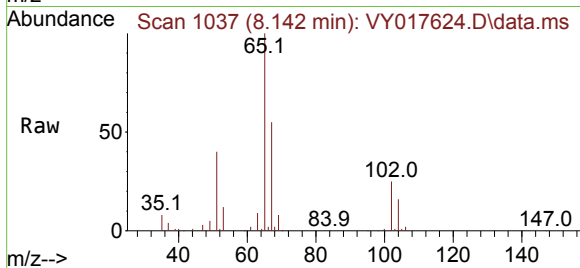
90

Tgt Ion: 65 Resp: 53930

Ion Ratio Lower Upper

65 100

67 55.3 0.0 109.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.691 min Scan# 1127

Delta R.T. -0.000 min

Lab File: VY017624.D

Acq: 08 Mar 2024 16:47

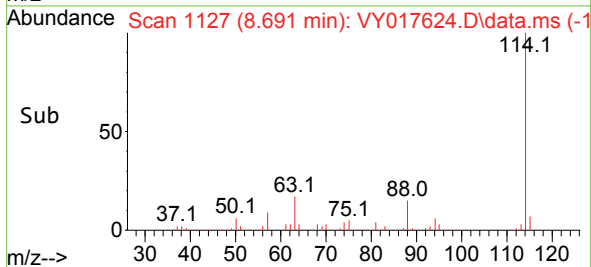
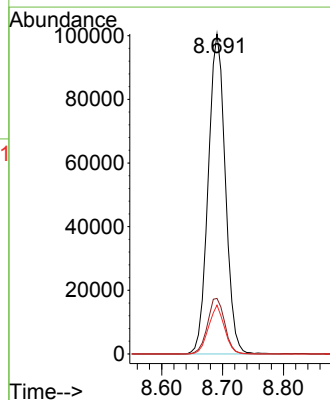
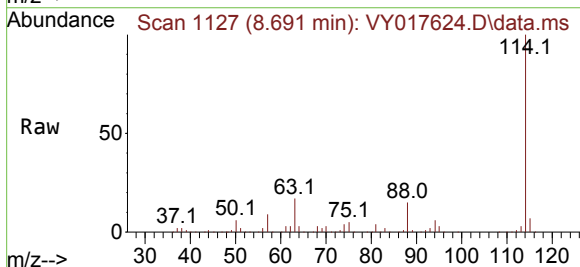
Tgt Ion: 114 Resp: 195867

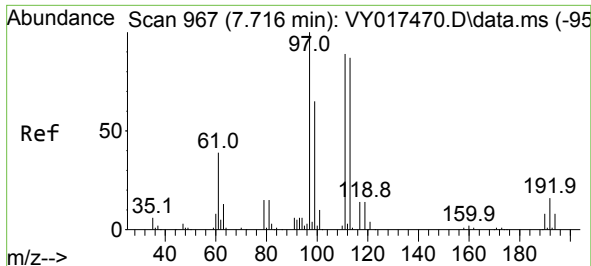
Ion Ratio Lower Upper

114 100

63 17.3 0.0 35.0

88 15.2 0.0 27.2

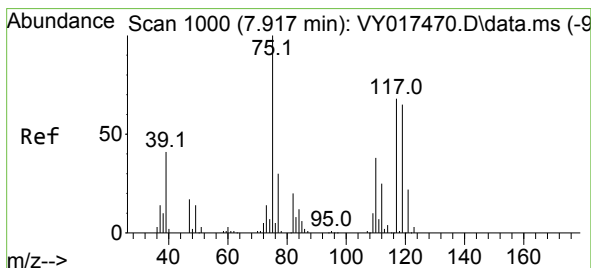
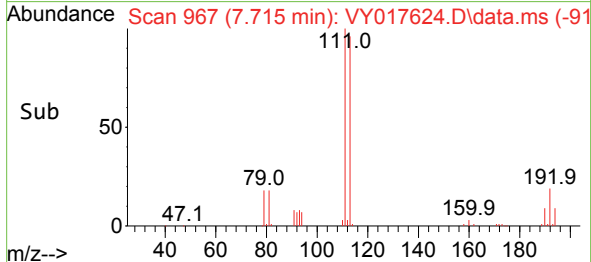
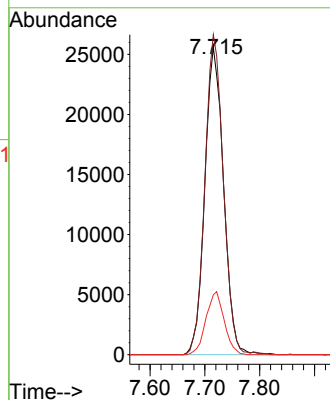
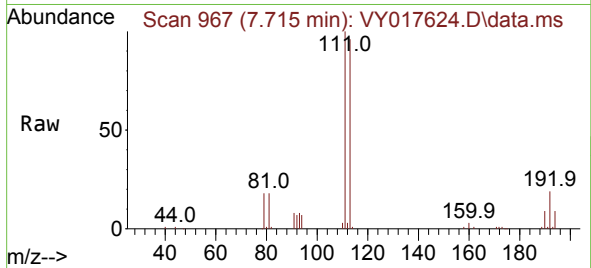




#35
Dibromofluoromethane
Concen: 44.541 ug/l
RT: 7.715 min Scan# 90
Delta R.T. -0.000 min
Lab File: VY017624.D
Acq: 08 Mar 2024 16:47

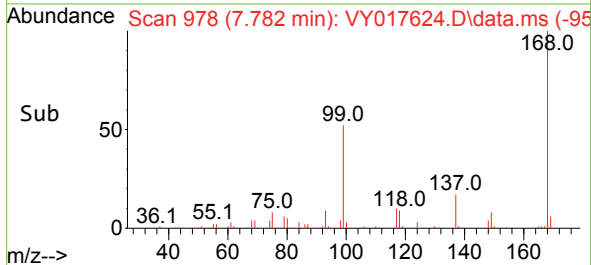
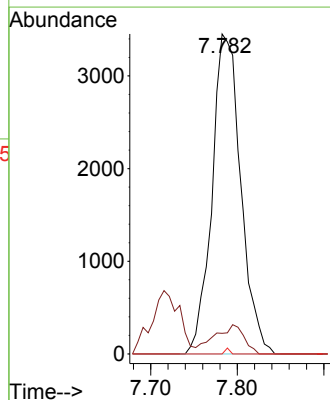
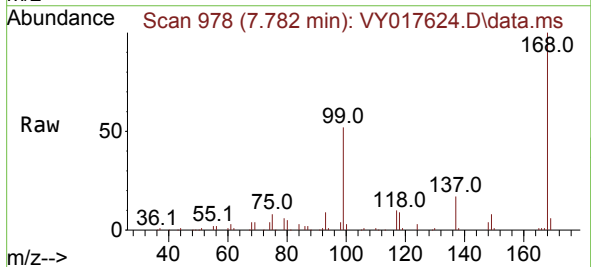
Instrument :
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ClientSampleId :
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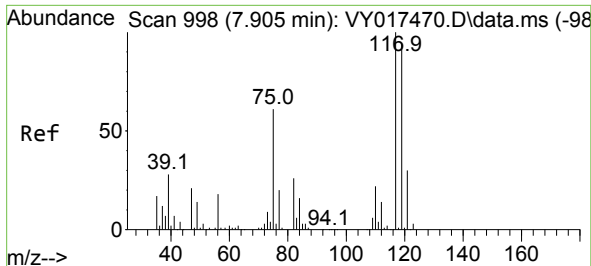
Tgt Ion:	113	Resp:	60793
Ion	Ratio	Lower	Upper
113	100		
111	102.0	82.2	123.4
192	19.9	15.9	23.9



#36
1,1-Dichloropropene
Concen: 4.320 ug/l
RT: 7.782 min Scan# 978
Delta R.T. -0.134 min
Lab File: VY017624.D
Acq: 08 Mar 2024 16:47

Tgt Ion:	75	Resp:	7956
Ion	Ratio	Lower	Upper
75	100		
110	9.4	19.0	57.0#
77	0.3	25.3	37.9#

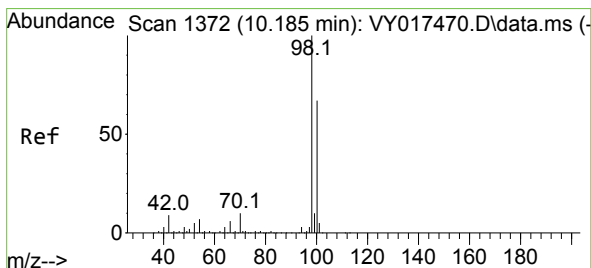
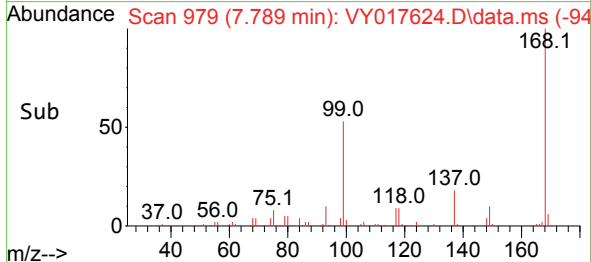
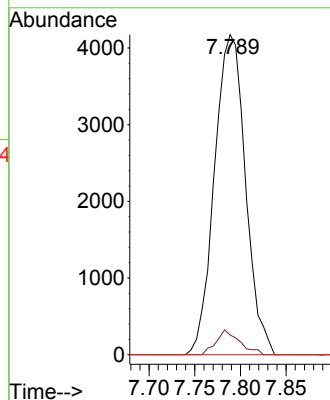
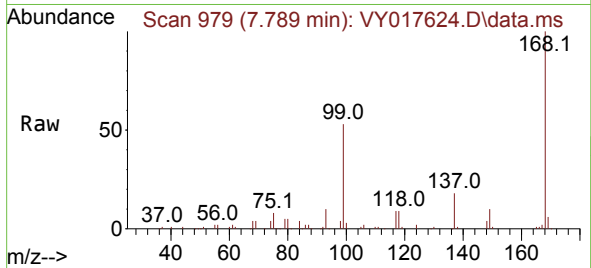




#38
Carbon Tetrachloride
Concen: 5.338 ug/l
RT: 7.789 min Scan# 91
Delta R.T. -0.116 min
Lab File: VY017624.D
Acq: 08 Mar 2024 16:47

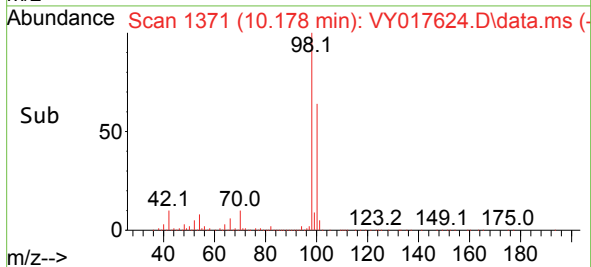
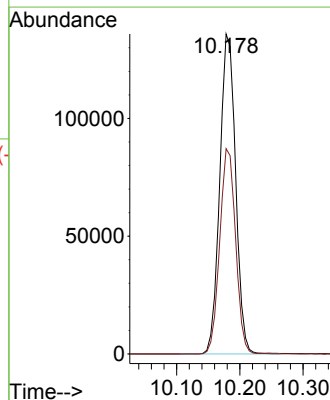
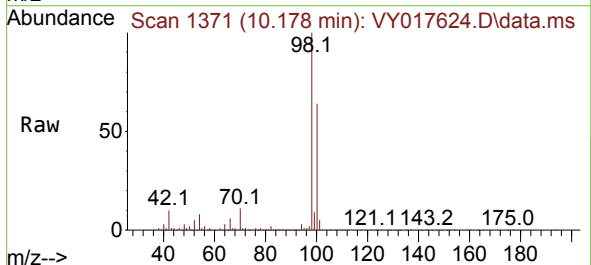
Instrument :
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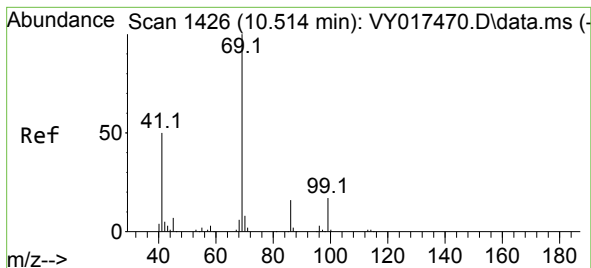
Tgt Ion:117 Resp: 9852
Ion Ratio Lower Upper
117 100
119 6.2 75.8 113.6#
121 0.0 24.0 36.0#



#50
Toluene-d8
Concen: 49.338 ug/l
RT: 10.178 min Scan# 1371
Delta R.T. -0.006 min
Lab File: VY017624.D
Acq: 08 Mar 2024 16:47

Tgt Ion: 98 Resp: 235445
Ion Ratio Lower Upper
98 100
100 64.3 52.0 78.0

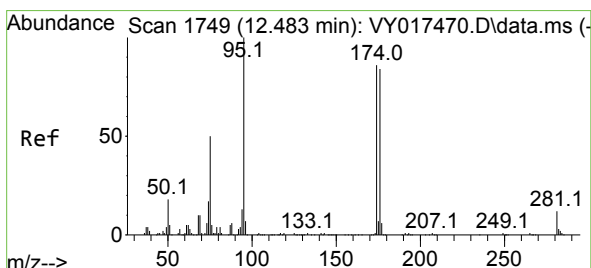
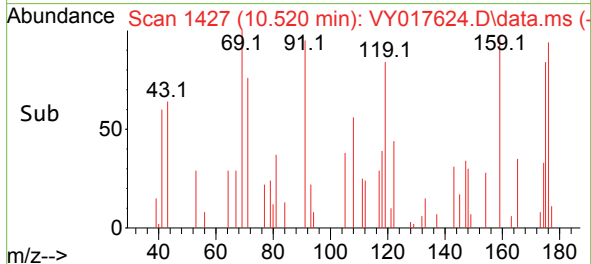
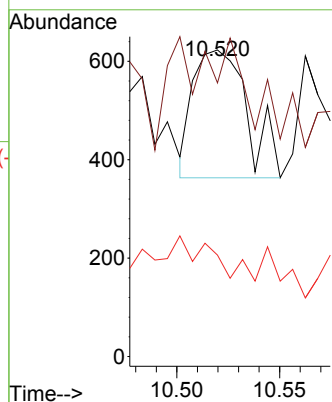
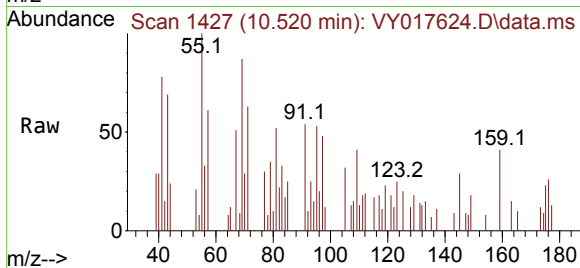




#56
Ethyl methacrylate
Concen: 2.886 ug/l
RT: 10.520 min Scan# 1427
Delta R.T. 0.006 min
Lab File: VY017624.D
Acq: 08 Mar 2024 16:47

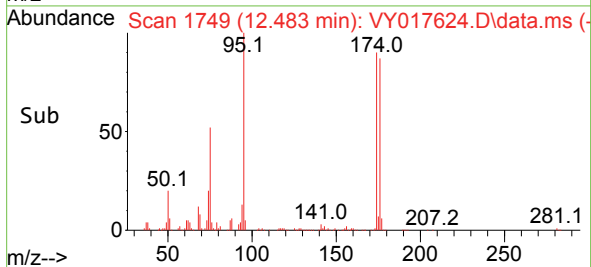
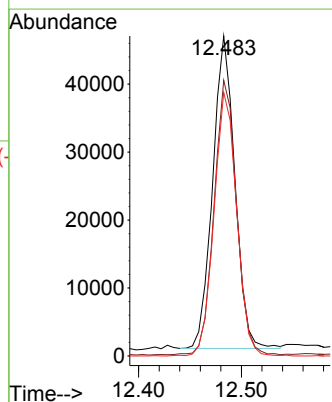
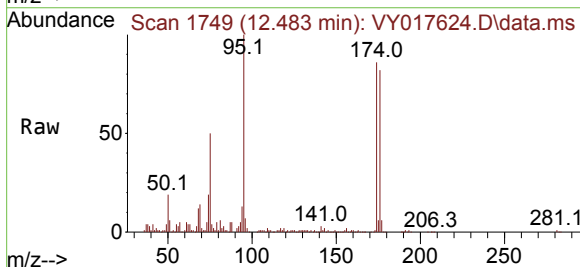
Instrument :
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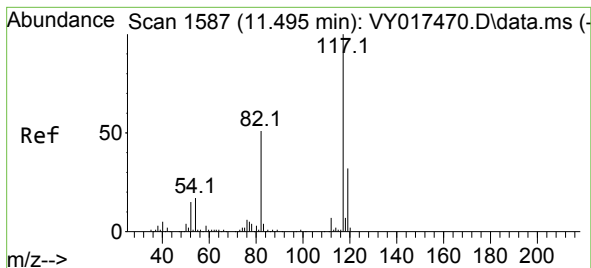
Tgt Ion: 69 Resp: 478
Ion Ratio Lower Upper
69 100
41 39.5 42.3 63.5#
39 0.0 22.9 34.3#



#62
4-Bromofluorobenzene
Concen: 45.892 ug/l
RT: 12.483 min Scan# 1749
Delta R.T. -0.000 min
Lab File: VY017624.D
Acq: 08 Mar 2024 16:47

Tgt Ion: 95 Resp: 68826
Ion Ratio Lower Upper
95 100
174 89.2 0.0 175.6
176 86.2 0.0 171.4

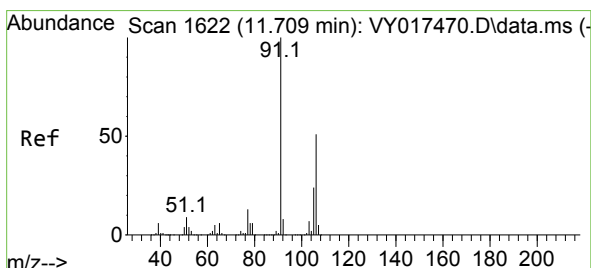
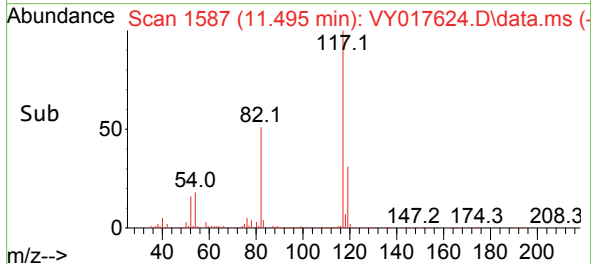
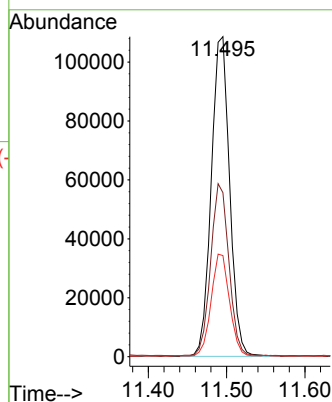
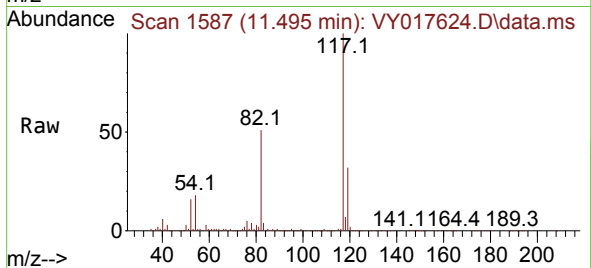




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.495 min Scan# 117
Delta R.T. -0.000 min
Lab File: VY017624.D
Acq: 08 Mar 2024 16:47

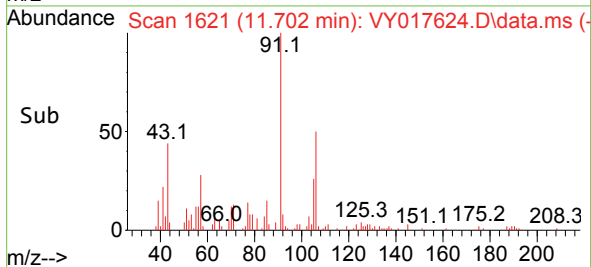
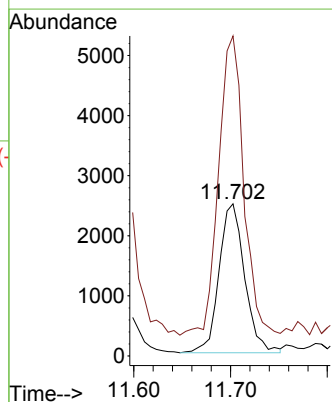
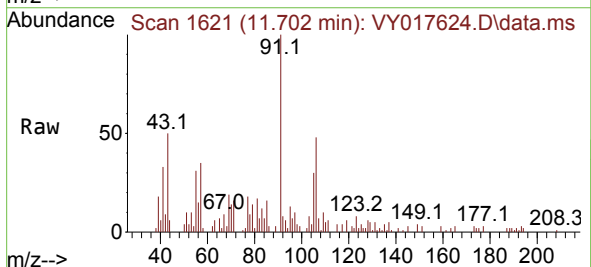
Instrument :
MSVOA_Y
ClientSampleId :
90

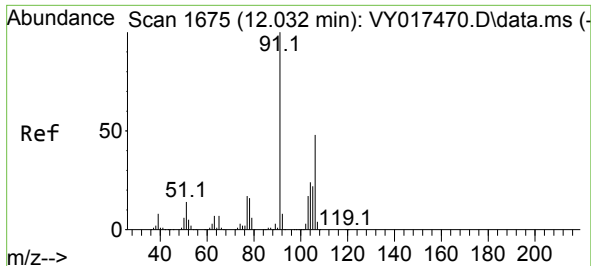
Tgt Ion:117 Resp: 176596
Ion Ratio Lower Upper
117 100
82 51.0 42.4 63.6
119 31.5 25.9 38.9



#68
m/p-Xylenes
Concen: 1.765 ug/l
RT: 11.702 min Scan# 1621
Delta R.T. -0.006 min
Lab File: VY017624.D
Acq: 08 Mar 2024 16:47

Tgt Ion:106 Resp: 4560
Ion Ratio Lower Upper
106 100
91 196.6 156.0 234.0

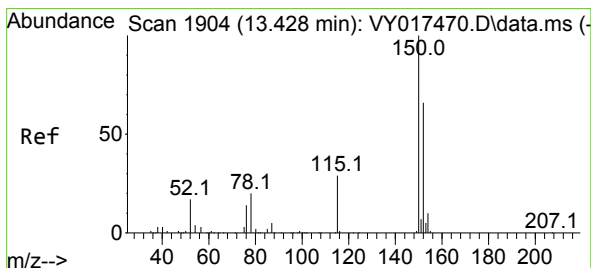
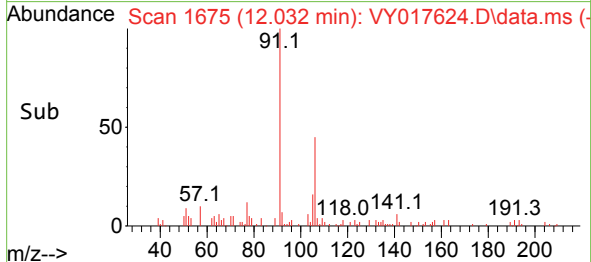
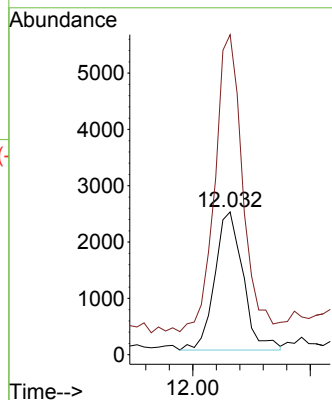
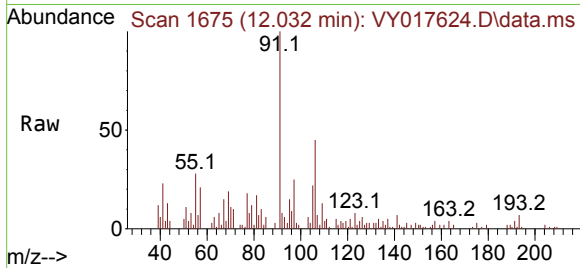




#69
o-Xylene
Concen: 1.711 ug/l
RT: 12.032 min Scan# 1675
Delta R.T. -0.000 min
Lab File: VY017624.D
Acq: 08 Mar 2024 16:47

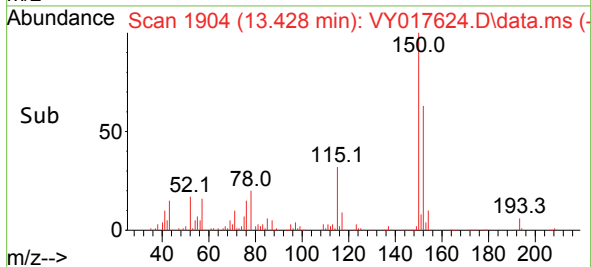
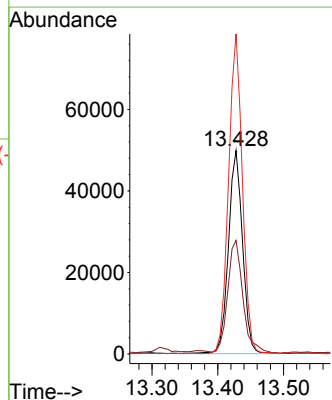
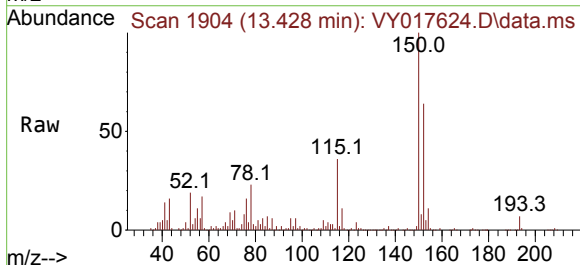
Instrument :
MSVOA_Y
ClientSampleId :
90

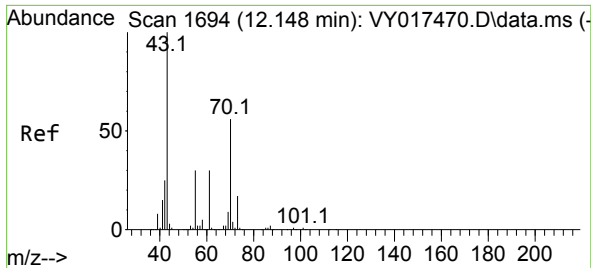
Tgt Ion:106 Resp: 4101
Ion Ratio Lower Upper
106 100
91 210.4 103.6 310.8



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.428 min Scan# 1904
Delta R.T. -0.000 min
Lab File: VY017624.D
Acq: 08 Mar 2024 16:47

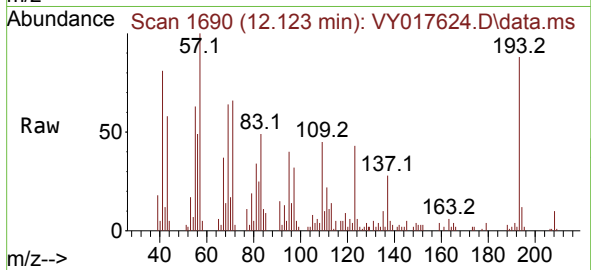
Tgt Ion:152 Resp: 74520
Ion Ratio Lower Upper
152 100
115 60.2 28.2 84.7
150 154.1 0.0 345.6



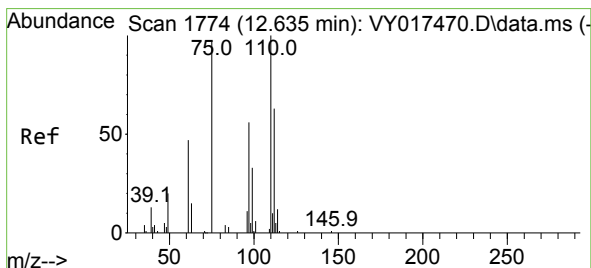
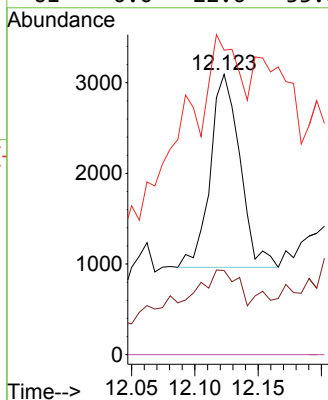
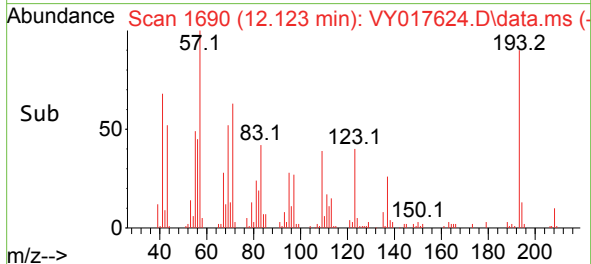


#74
N-amy1 acetate
Concen: 3.550 ug/l
RT: 12.123 min Scan# 1
Delta R.T. -0.025 min
Lab File: VY017624.D
Acq: 08 Mar 2024 16:47

Instrument :
MSVOA_Y
ClientSampleId :
90

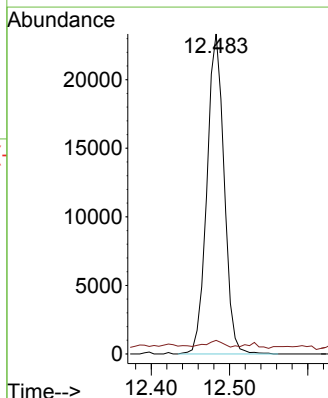
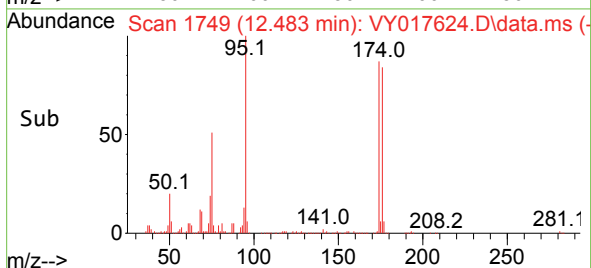
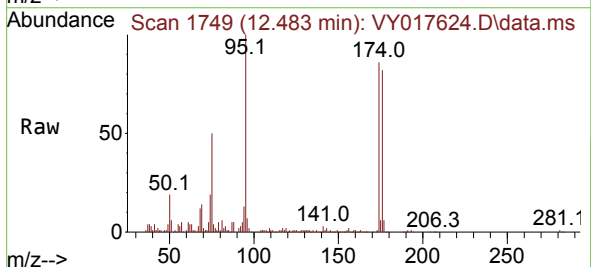


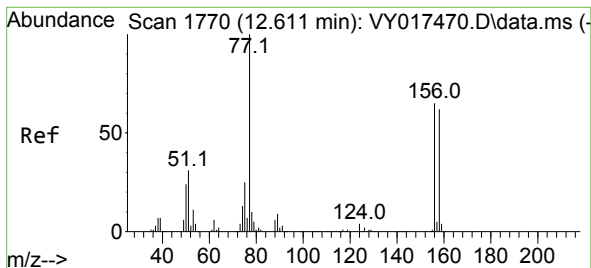
Tgt Ion:	43	Resp:	3466
Ion	Ratio	Lower	Upper
43	100		
70	56.1	41.4	62.2
55	202.9	23.3	34.9#
61	0.0	22.6	33.8#



#76
1,2,3-Trichloropropane
Concen: 50.184 ug/l
RT: 12.483 min Scan# 1749
Delta R.T. -0.153 min
Lab File: VY017624.D
Acq: 08 Mar 2024 16:47

Tgt Ion:	75	Resp:	35533
Ion	Ratio	Lower	Upper
75	100		
77	2.2	0.0	0.0#





#77

Bromobenzene

Concen: 2.508 ug/l

RT: 12.385 min Scan# 1733

Delta R.T. -0.226 min

Lab File: VY017624.D

Acq: 08 Mar 2024 16:47

Instrument :

MSVOA_Y

ClientSampleId :

90

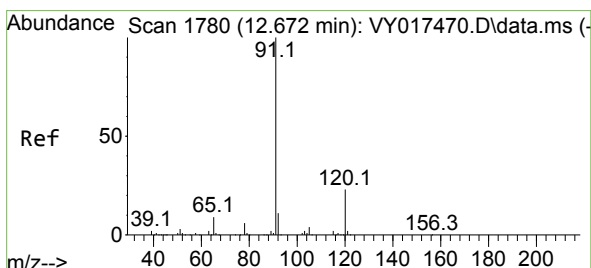
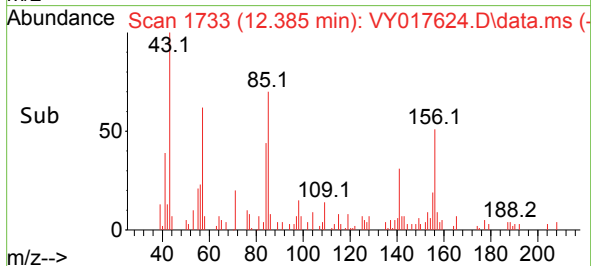
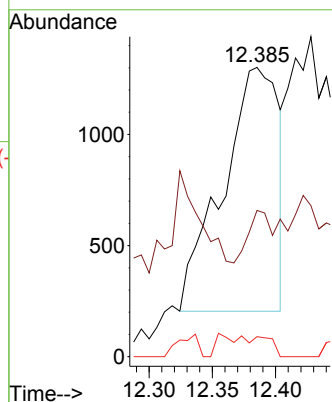
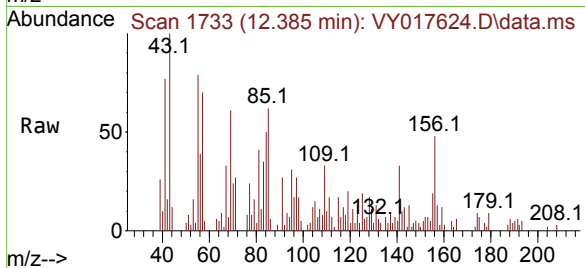
Tgt Ion:156 Resp: 3362

Ion Ratio Lower Upper

156 100

77 8.4 87.1 261.3#

158 0.0 48.6 145.9#



#78

n-propylbenzene

Concen: 1.915 ug/l

RT: 12.672 min Scan# 1780

Delta R.T. -0.000 min

Lab File: VY017624.D

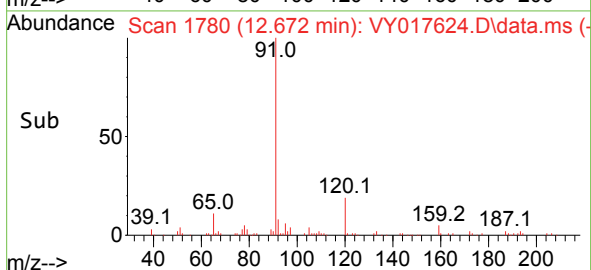
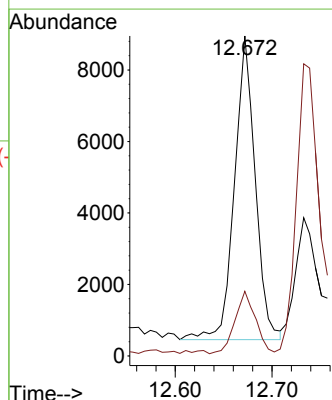
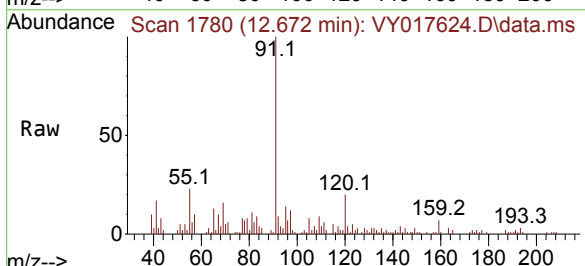
Acq: 08 Mar 2024 16:47

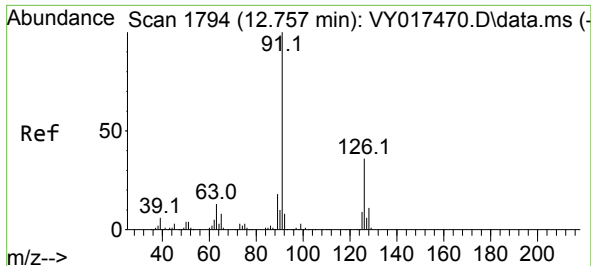
Tgt Ion: 91 Resp: 12720

Ion Ratio Lower Upper

91 100

120 20.3 11.5 34.4

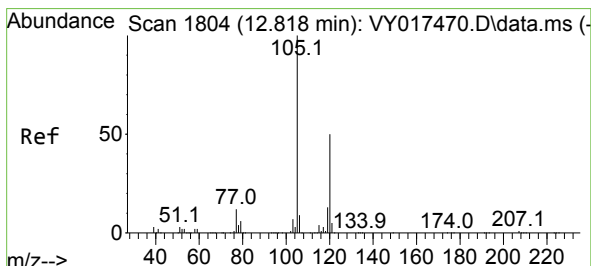
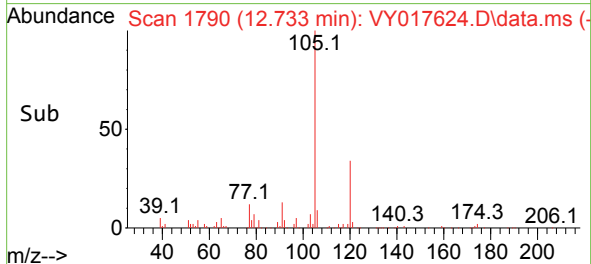
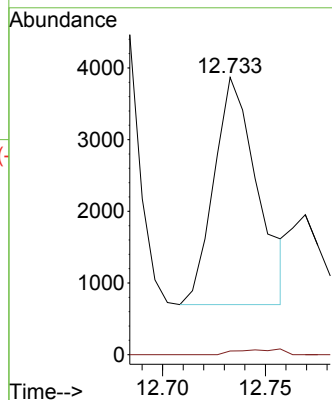
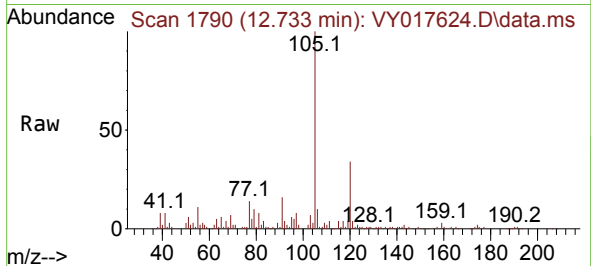




#79
2-Chlorotoluene
Concen: 1.255 ug/l
RT: 12.733 min Scan# 11
Delta R.T. -0.025 min
Lab File: VY017624.D
Acq: 08 Mar 2024 16:47

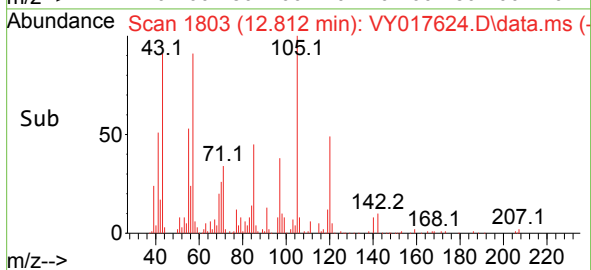
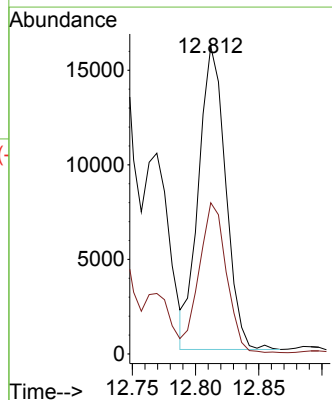
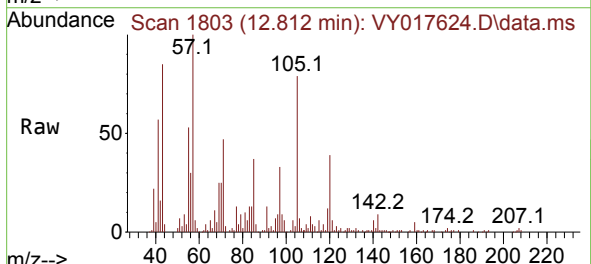
Instrument :
MSVOA_Y
ClientSampleId :
90

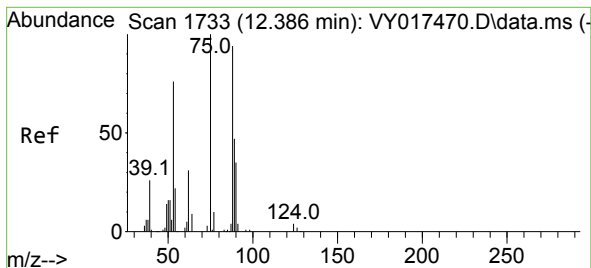
Tgt Ion: 91 Resp: 4667
Ion Ratio Lower Upper
91 100
126 0.0 17.8 53.5#



#80
1,3,5-Trimethylbenzene
Concen: 5.385 ug/l
RT: 12.812 min Scan# 1803
Delta R.T. -0.006 min
Lab File: VY017624.D
Acq: 08 Mar 2024 16:47

Tgt Ion: 105 Resp: 23885
Ion Ratio Lower Upper
105 100
120 49.7 25.1 75.2

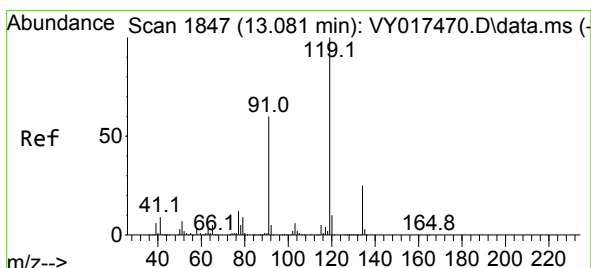
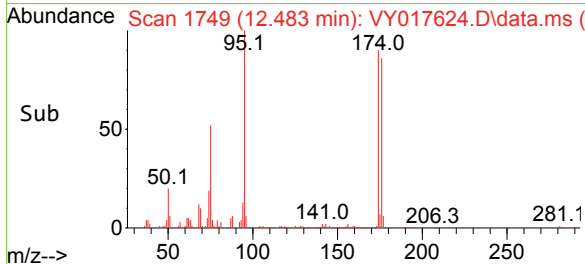
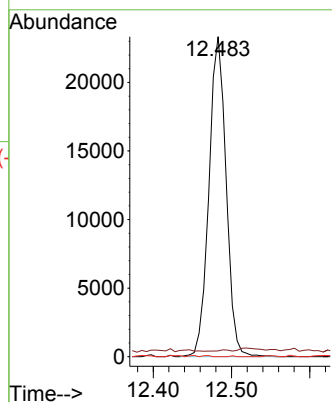
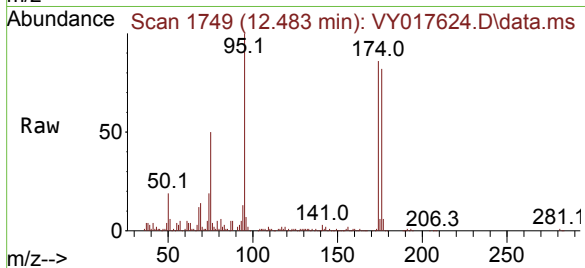




#81
trans-1,4-Dichloro-2-butene
Concen: 115.312 ug/l
RT: 12.483 min Scan# 11
Delta R.T. 0.097 min
Lab File: VY017624.D
Acq: 08 Mar 2024 16:47

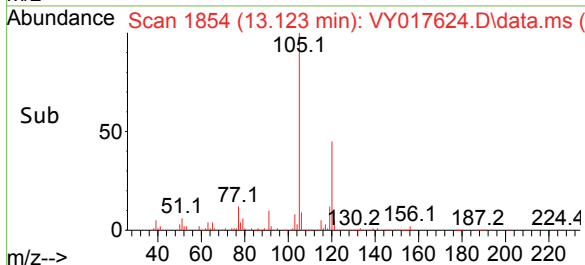
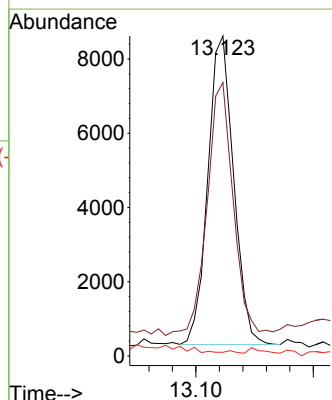
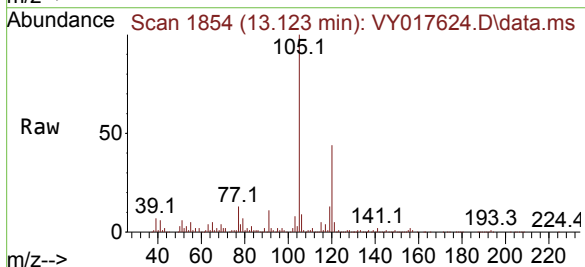
Instrument :
MSVOA_Y
ClientSampleId :
90

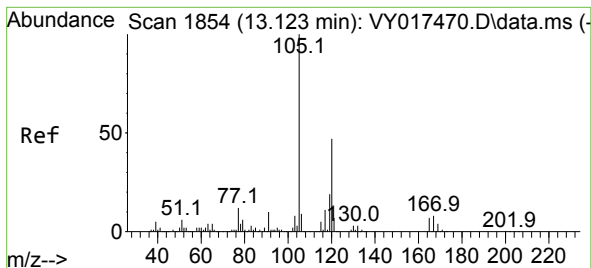
Tgt Ion: 75 Resp: 35533
Ion Ratio Lower Upper
75 100
53 0.5 66.8 100.2#
89 0.1 35.8 53.6#



#83
tert-Butylbenzene
Concen: 3.254 ug/l
RT: 13.123 min Scan# 1854
Delta R.T. 0.042 min
Lab File: VY017624.D
Acq: 08 Mar 2024 16:47

Tgt Ion: 119 Resp: 12676
Ion Ratio Lower Upper
119 100
91 83.3 31.3 93.8
134 0.0 13.4 40.1#





#84

1,2,4-Trimethylbenzene

Concen: 23.209 ug/l

RT: 13.123 min Scan# 1854

Delta R.T. -0.000 min

Lab File: VY017624.D

Acq: 08 Mar 2024 16:47

Instrument :

MSVOA_Y

ClientSampleId :

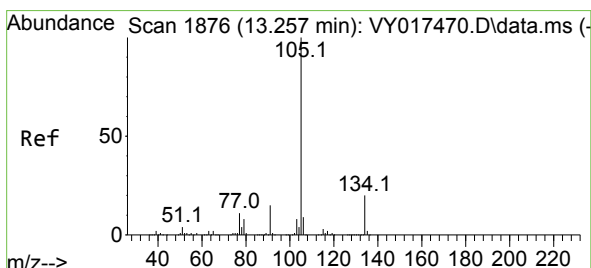
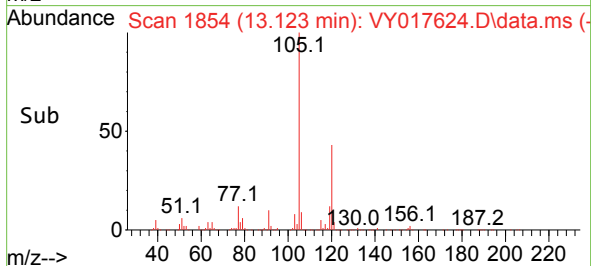
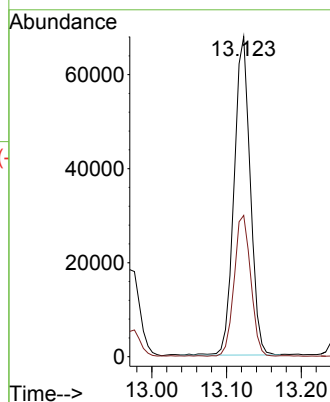
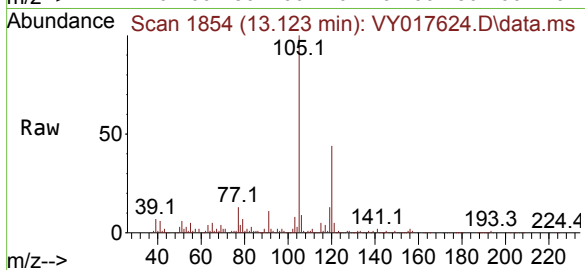
90

Tgt Ion:105 Resp: 101629

Ion Ratio Lower Upper

105 100

120 45.5 23.2 69.6



#85

sec-Butylbenzene

Concen: 2.106 ug/l

RT: 13.251 min Scan# 1875

Delta R.T. -0.006 min

Lab File: VY017624.D

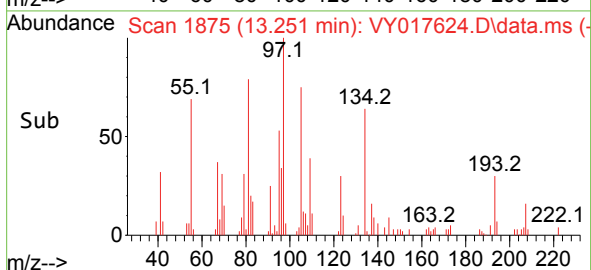
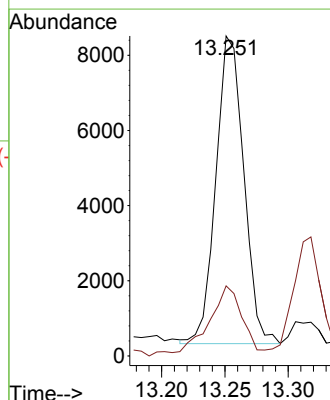
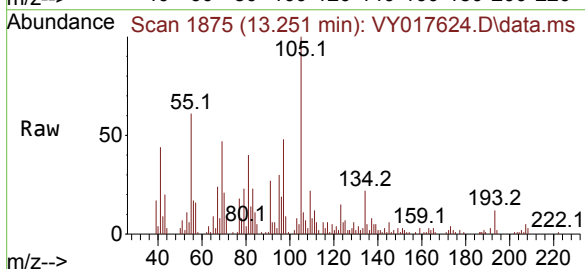
Acq: 08 Mar 2024 16:47

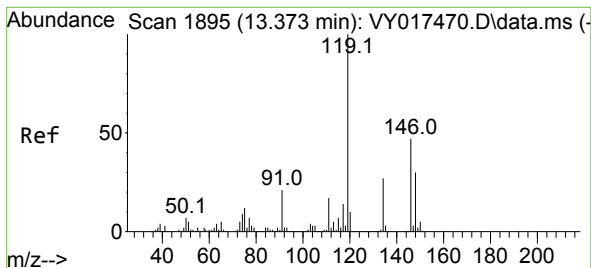
Tgt Ion:105 Resp: 12542

Ion Ratio Lower Upper

105 100

134 28.4 10.1 30.1





#86

p-Isopropyltoluene

Concen: 1.697 ug/l

RT: 13.373 min Scan# 1895

Delta R.T. -0.000 min

Lab File: VY017624.D

Acq: 08 Mar 2024 16:47

Instrument :

MSVOA_Y

ClientSampleId :

90

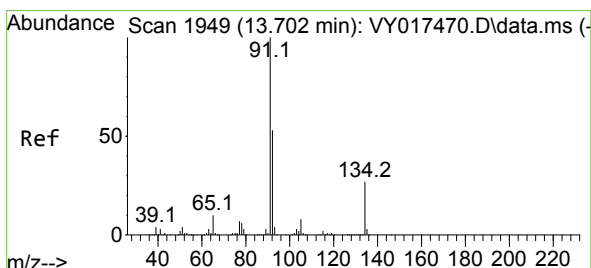
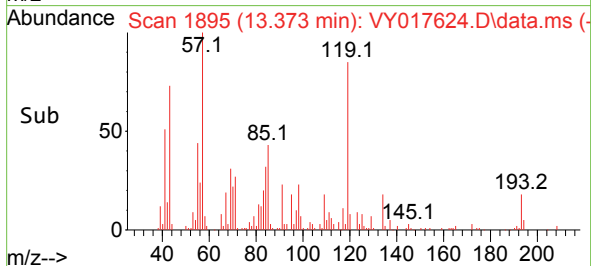
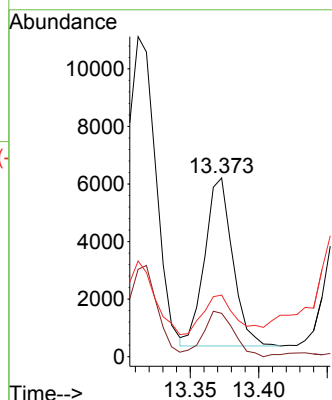
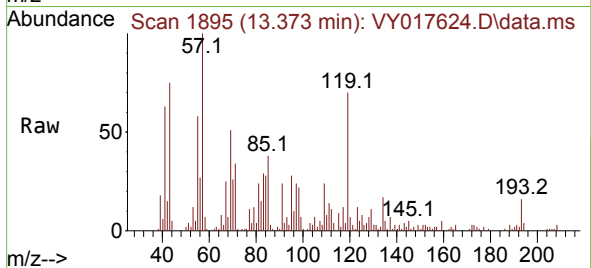
Tgt Ion:119 Resp: 8273

Ion Ratio Lower Upper

119 100

134 29.5 13.1 39.3

91 27.5 10.7 32.1



#89

n-Butylbenzene

Concen: 4.976 ug/l

RT: 13.696 min Scan# 1948

Delta R.T. -0.006 min

Lab File: VY017624.D

Acq: 08 Mar 2024 16:47

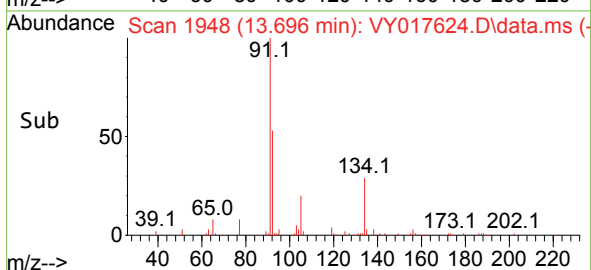
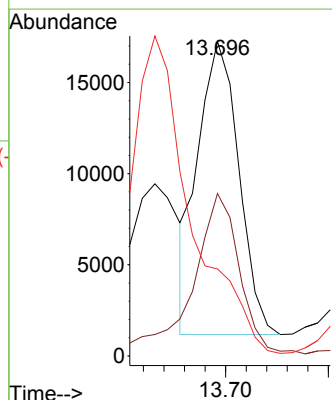
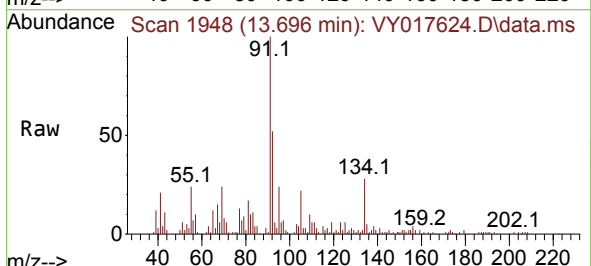
Tgt Ion: 91 Resp: 22133

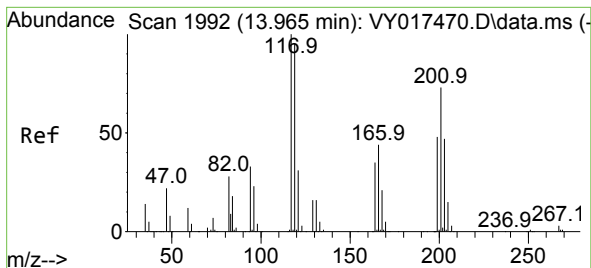
Ion Ratio Lower Upper

91 100

92 62.5 26.6 79.7

134 0.0 12.9 38.7#





#90

Hexachloroethane

Concen: 8.287 ug/l

RT: 13.970 min Scan# 1992

Delta R.T. 0.006 min

Lab File: VY017624.D

Acq: 08 Mar 2024 16:47

Instrument :

MSVOA_Y

ClientSampleId :

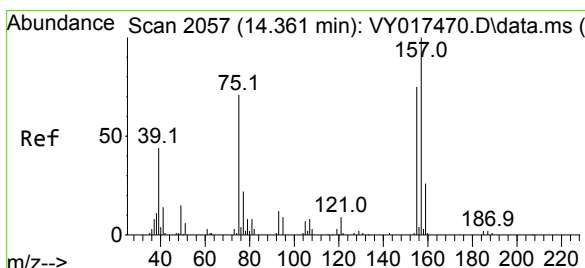
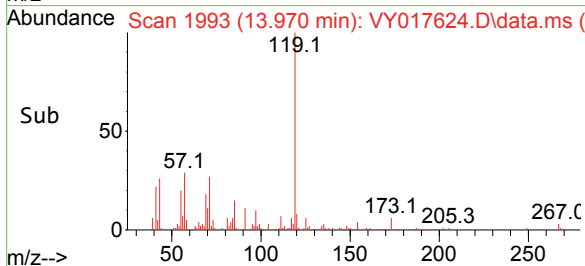
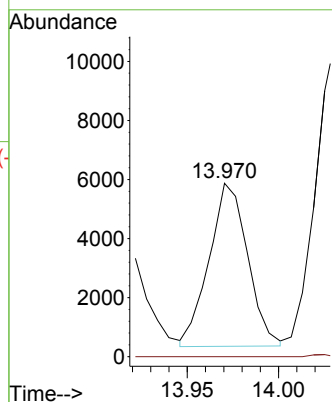
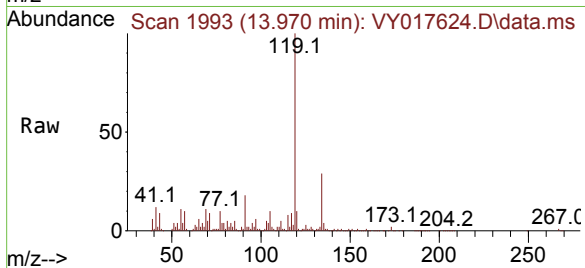
90

Tgt Ion:117 Resp: 8099

Ion Ratio Lower Upper

117 100

201 0.0 37.4 112.2#



#92

1,2-Dibromo-3-Chloropropane

Concen: 1.766 ug/l

RT: 14.379 min Scan# 2060

Delta R.T. 0.018 min

Lab File: VY017624.D

Acq: 08 Mar 2024 16:47

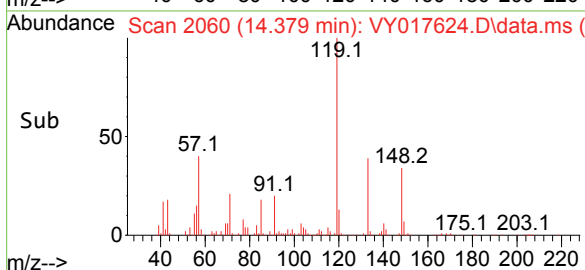
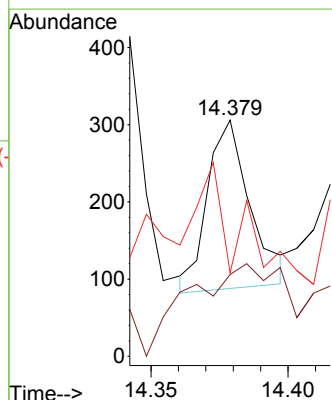
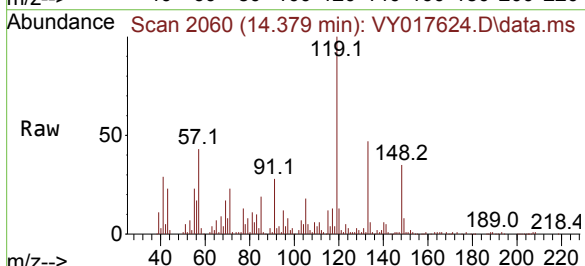
Tgt Ion: 75 Resp: 236

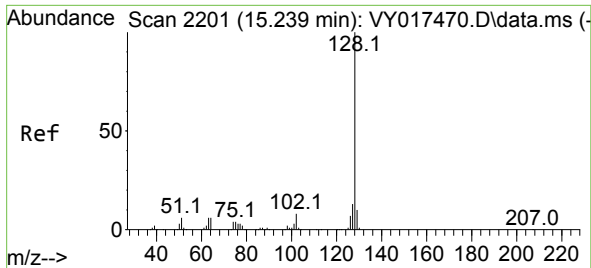
Ion Ratio Lower Upper

75 100

155 122.9 48.6 145.8

157 72.0 62.7 188.2





#95
Naphthalene
Concen: 18.790 ug/l
RT: 15.232 min Scan# 21
Delta R.T. -0.007 min
Lab File: VY017624.D
Acq: 08 Mar 2024 16:47

Instrument :
MSVOA_Y
ClientSampleId :
90

Tgt Ion:128 Resp: 37601
Ion Ratio Lower Upper
128 100
127 15.3 10.6 16.0
129 15.3 8.6 13.0#

