

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY040424\
 Data File : VY017844.D
 Acq On : 04 Apr 2024 11:14
 Operator : SY/MD
 Sample : P1954-03
 Misc : 5.06g/5.0mL/MSVOA_Y/SOIL/B
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 RBR21145RE

Quant Time: Apr 05 00:44:26 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032924S.M
 Quant Title : SW846 8260
 QLast Update : Sat Mar 30 05:58:13 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.801	168	127622	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.703	114	228252	50.000	ug/l	0.01
63) Chlorobenzene-d5	11.508	117	142245	50.000	ug/l	0.01
72) 1,4-Dichlorobenzene-d4	13.446	152	19748	50.000	ug/l	0.01
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.155	65	63396	57.405	ug/l	0.01
Spiked Amount 50.000	Range 50 - 163		Recovery = 114.820%			
35) Dibromofluoromethane	7.734	113	74065	56.155	ug/l	0.02
Spiked Amount 50.000	Range 54 - 147		Recovery = 112.300%			
50) Toluene-d8	10.191	98	235037	47.706	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 95.420%			
62) 4-Bromofluorobenzene	12.495	95	36417	24.295	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 48.580%			
Target Compounds						Qvalue
11) Tert butyl alcohol	4.966	59	12140	140.431	ug/l #	77
16) Acetone	3.979	43	1418	6.212	ug/l #	86
20) Methylene Chloride	4.728	84	7440	2.813	ug/l	97
25) 2-Butanone	7.002	43	747	2.297	ug/l #	41
31) Cyclohexane	7.795	56	2801	1.440	ug/l #	30
36) 1,1-Dichloropropene	7.801	75	10316	5.361	ug/l #	47
38) Carbon Tetrachloride	7.801	117	11846	5.930	ug/l #	18
41) Methacrylonitrile	7.350	41	20	Below Cal	#	15
48) Methyl methacrylate	9.197	41	100	Below Cal	#	27
51) 4-Methyl-2-Pentanone	10.075	43	563	Below Cal	#	72
56) Ethyl methacrylate	10.538	69	64	Below Cal	#	44
59) 2-Hexanone	10.849	43	62	Below Cal	#	19
68) m/p-Xylenes	11.715	106	2774	1.458	ug/l	83
69) o-Xylene	12.044	106	2375	Below Cal		98
70) Styrene	12.063	104	541	Below Cal	#	25
73) Isopropylbenzene	12.355	105	4091	2.956	ug/l	76
74) N-amyl acetate	12.136	43	1142	4.550	ug/l #	49
75) 1,1,2,2-Tetrachloroethane	12.550	83	480	2.005	ug/l #	89
76) 1,2,3-Trichloropropane	12.495	75	19890	110.528	ug/l #	100
78) n-propylbenzene	12.684	91	2889	1.711	ug/l	94
79) 2-Chlorotoluene	12.745	91	1416	1.531	ug/l #	39
80) 1,3,5-Trimethylbenzene	12.825	105	7281	6.741	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.495	75	19890	178.320	ug/l #	17
82) 4-Chlorotoluene	12.825	91	1119	1.168	ug/l #	39
84) 1,2,4-Trimethylbenzene	13.136	105	17380	16.157	ug/l	98
85) sec-Butylbenzene	13.270	105	3066	2.080	ug/l #	78
86) p-Isopropyltoluene	13.385	119	8829	7.167	ug/l	93
89) n-Butylbenzene	13.715	91	4447	3.924	ug/l #	83
90) Hexachloroethane	13.989	117	2017	8.234	ug/l #	12
92) 1,2-Dibromo-3-Chloropr...	14.349	75	188	5.811	ug/l #	1
93) 1,2,4-Trichlorobenzene	15.025	180	827	2.785	ug/l #	1
95) Naphthalene	15.251	128	3017	8.048	ug/l #	60
96) 1,2,3-Trichlorobenzene	15.409	180	3616	14.416	ug/l #	16

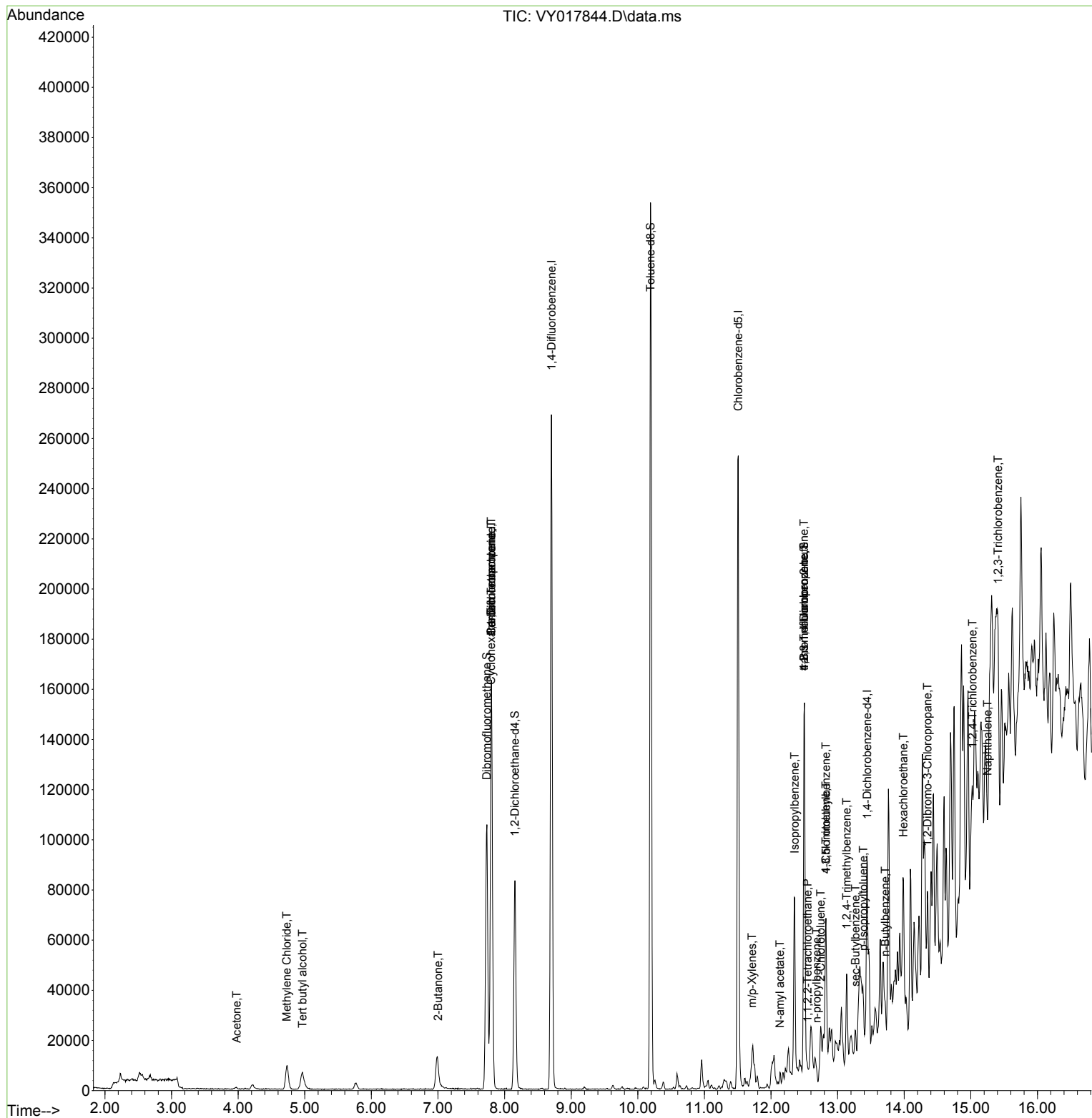
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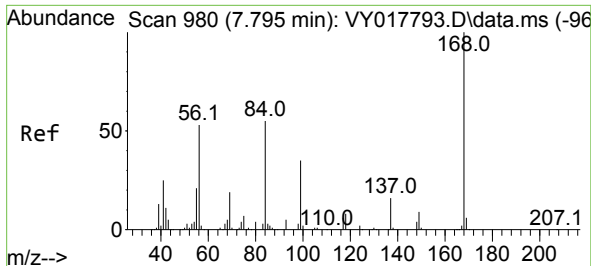
Instrument :
MSVOA_Y
ClientSampleId :
RBR21145RE

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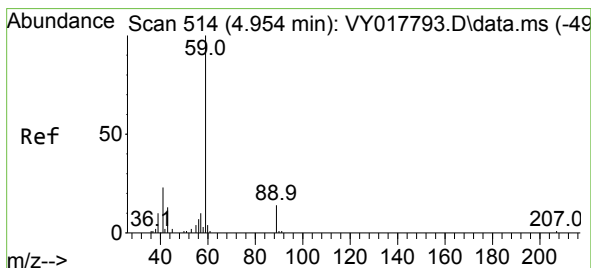
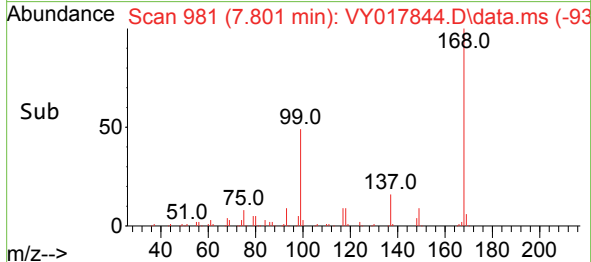
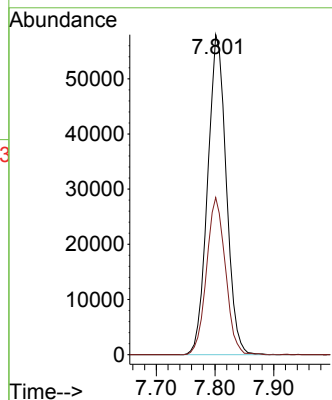
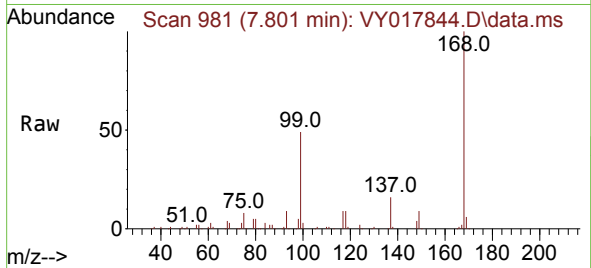




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.801 min Scan# 91
Delta R.T. 0.006 min
Lab File: VY017844.D
Acq: 04 Apr 2024 11:14

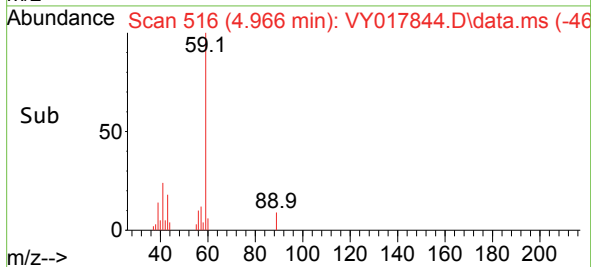
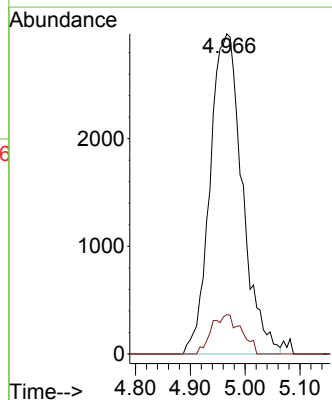
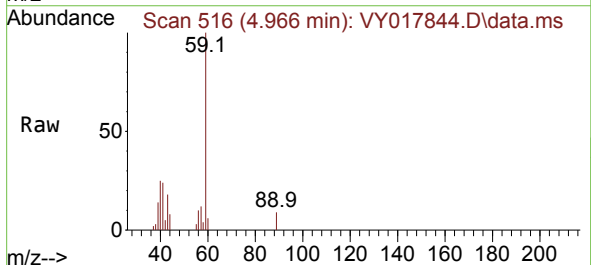
Instrument :
MSVOA_Y
ClientSampleId :
RBR21145RE

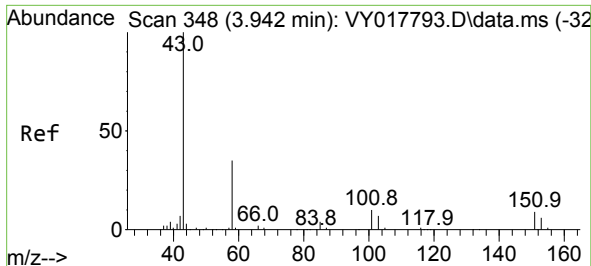
Tgt Ion:168 Resp: 127622
Ion Ratio Lower Upper
168 100
99 49.1 39.1 58.7



#11
Tert butyl alcohol
Concen: 140.431 ug/l
RT: 4.966 min Scan# 516
Delta R.T. 0.012 min
Lab File: VY017844.D
Acq: 04 Apr 2024 11:14

Tgt Ion: 59 Resp: 12140
Ion Ratio Lower Upper
59 100
57 11.3 3.0 4.6#

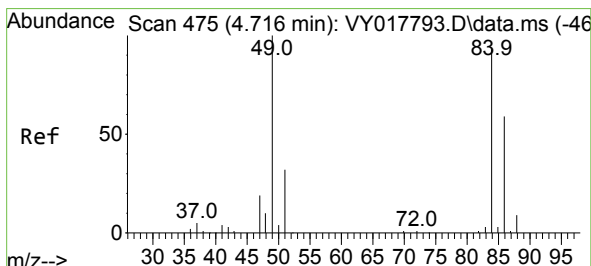
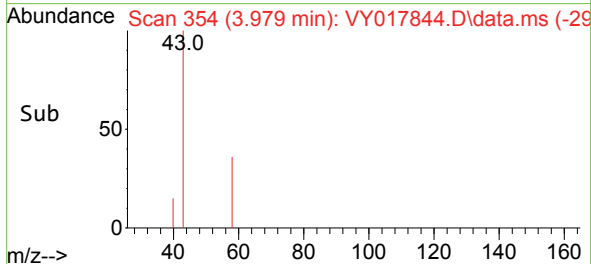
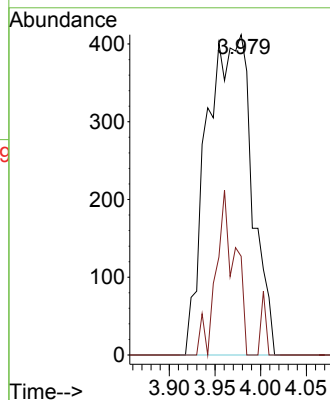
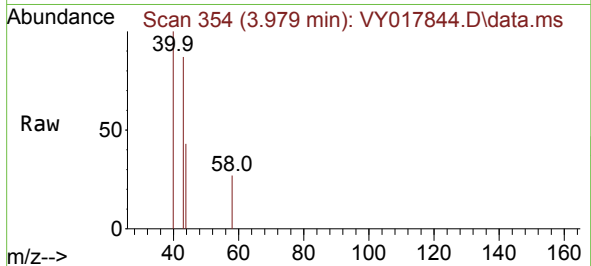




#16
Acetone
Concen: 6.212 ug/l
RT: 3.979 min Scan# 31
Delta R.T. 0.037 min
Lab File: VY017844.D
Acq: 04 Apr 2024 11:14

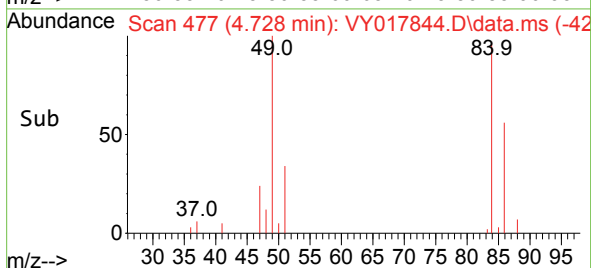
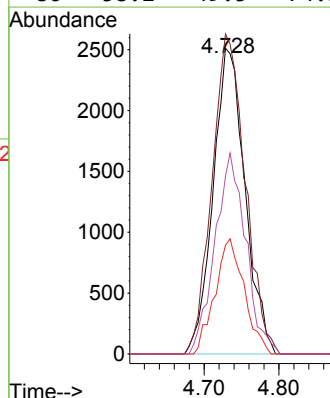
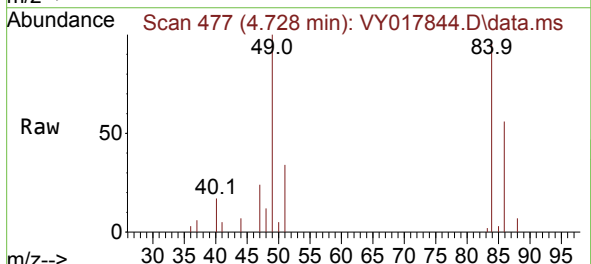
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ClientSampleId :
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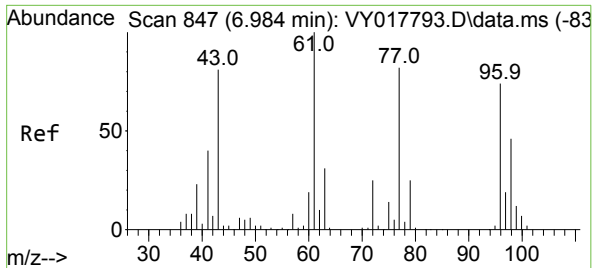
Tgt Ion: 43 Resp: 1418
Ion Ratio Lower Upper
43 100
58 30.8 31.7 47.5#



#20
Methylene Chloride
Concen: 2.813 ug/l
RT: 4.728 min Scan# 477
Delta R.T. 0.012 min
Lab File: VY017844.D
Acq: 04 Apr 2024 11:14

Tgt Ion: 84 Resp: 7440
Ion Ratio Lower Upper
84 100
49 104.7 84.4 126.6
51 35.5 26.0 39.0
86 58.2 49.5 74.3

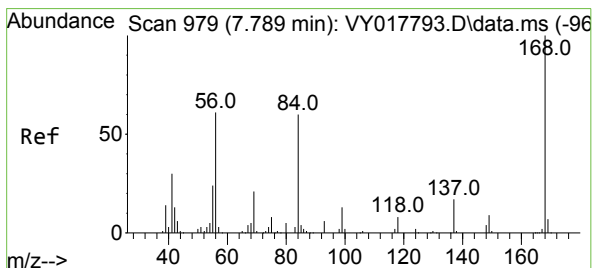
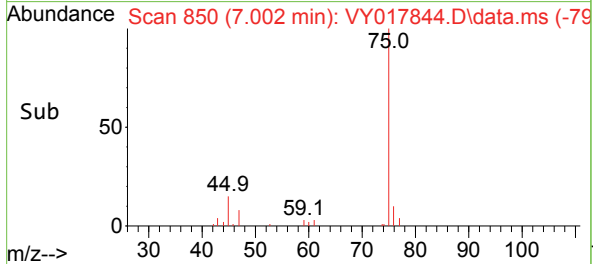
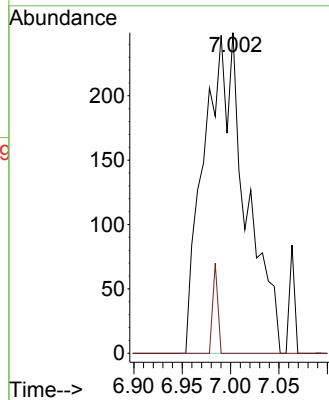
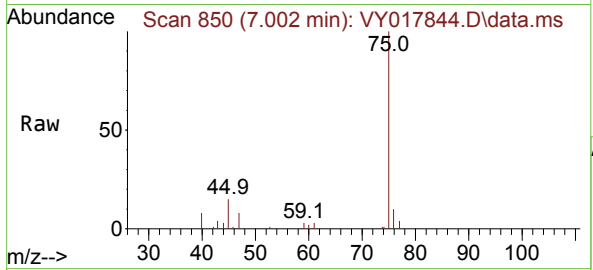




#25
2-Butanone
Concen: 2.297 ug/l
RT: 7.002 min Scan# 81
Delta R.T. 0.018 min
Lab File: VY017844.D
Acq: 04 Apr 2024 11:14

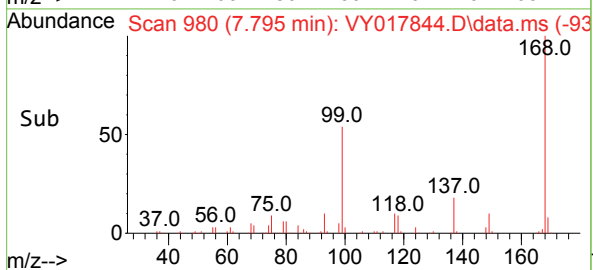
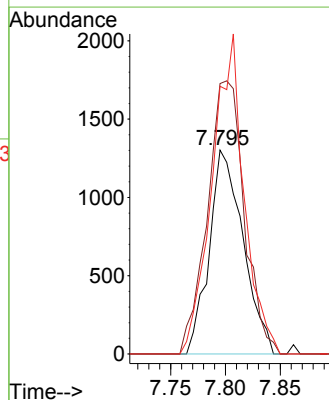
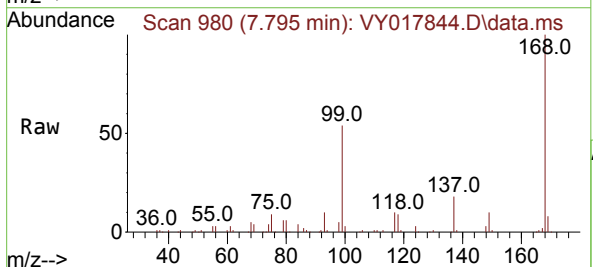
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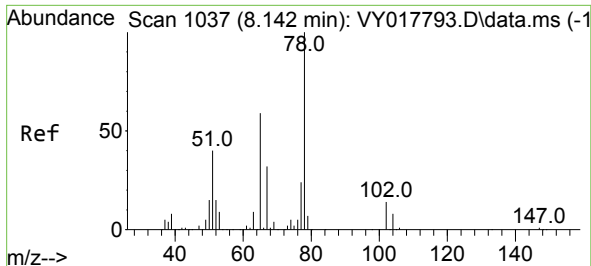
Tgt Ion: 43 Resp: 747
Ion Ratio Lower Upper
43 100
72 0.0 27.3 40.9#



#31
Cyclohexane
Concen: 1.440 ug/l
RT: 7.795 min Scan# 980
Delta R.T. 0.006 min
Lab File: VY017844.D
Acq: 04 Apr 2024 11:14

Tgt Ion: 56 Resp: 2801
Ion Ratio Lower Upper
56 100
69 132.6 28.7 43.1#
84 131.3 77.7 116.5#

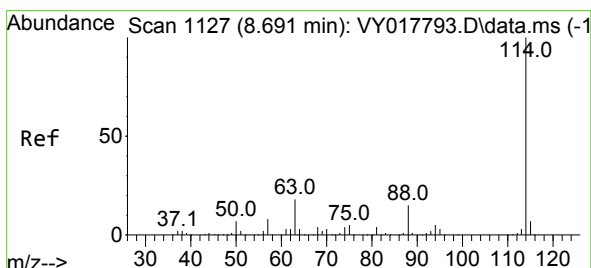
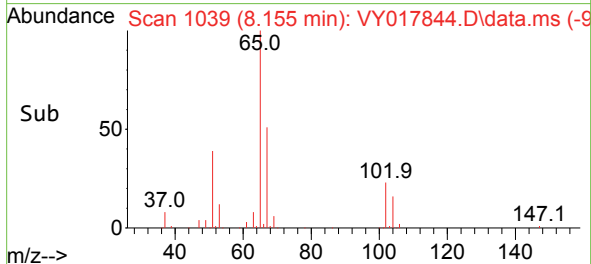
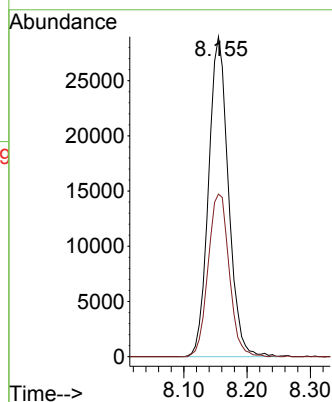
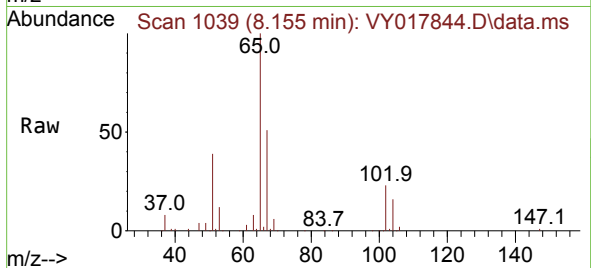




#33
1,2-Dichloroethane-d4
Concen: 57.405 ug/l
RT: 8.155 min Scan# 1039
Delta R.T. 0.012 min
Lab File: VY017844.D
Acq: 04 Apr 2024 11:14

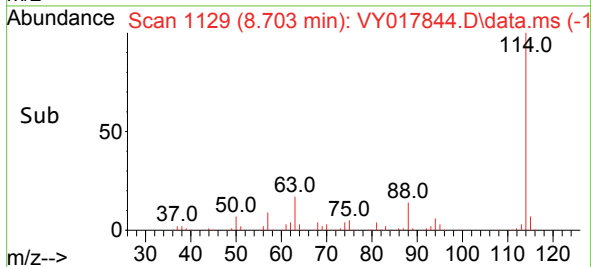
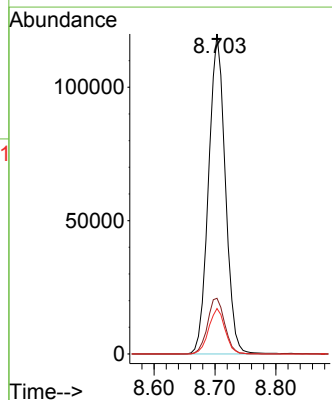
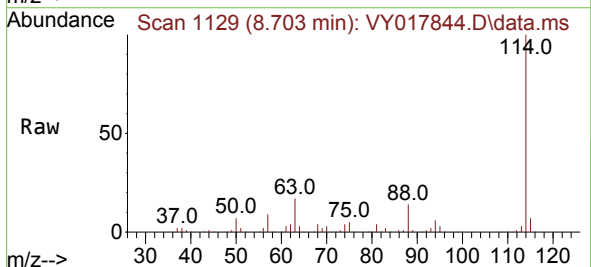
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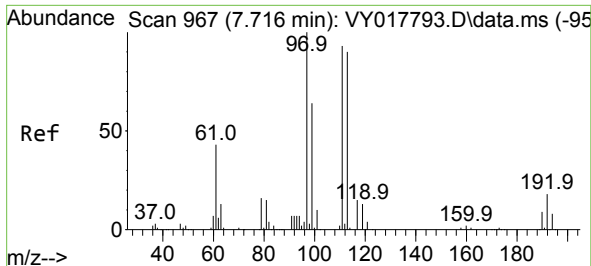
Tgt Ion: 65 Resp: 63396
Ion Ratio Lower Upper
65 100
67 53.8 0.0 109.6



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.703 min Scan# 1129
Delta R.T. 0.012 min
Lab File: VY017844.D
Acq: 04 Apr 2024 11:14

Tgt Ion: 114 Resp: 228252
Ion Ratio Lower Upper
114 100
63 17.4 0.0 35.0
88 14.2 0.0 27.2

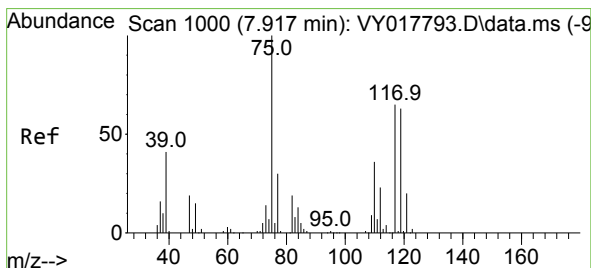
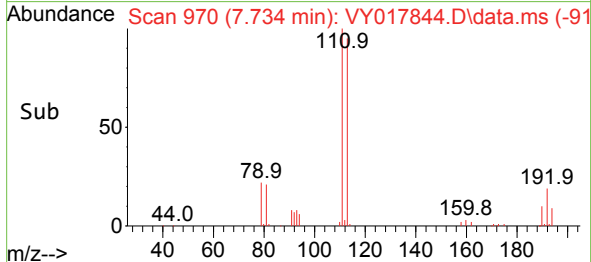
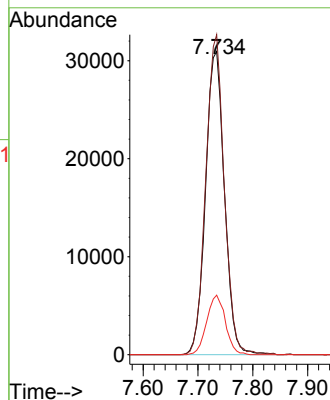
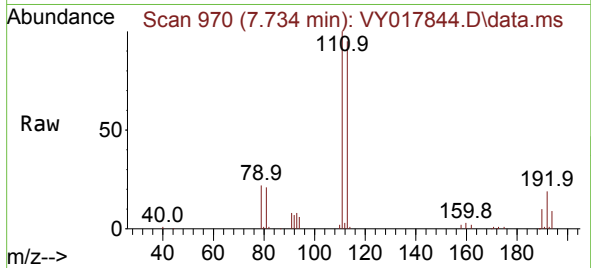




#35
Dibromofluoromethane
Concen: 56.155 ug/l
RT: 7.734 min Scan# 91
Delta R.T. 0.018 min
Lab File: VY017844.D
Acq: 04 Apr 2024 11:14

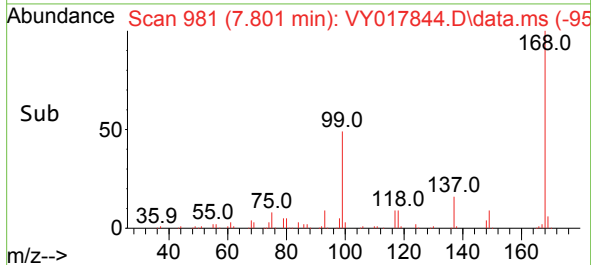
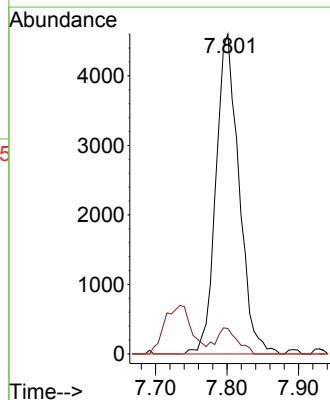
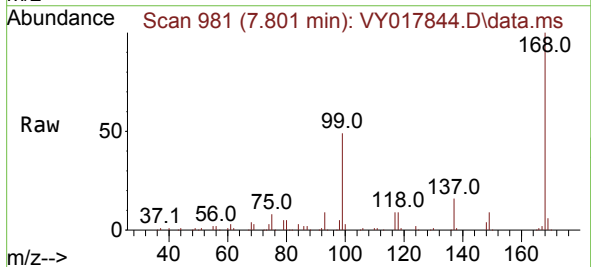
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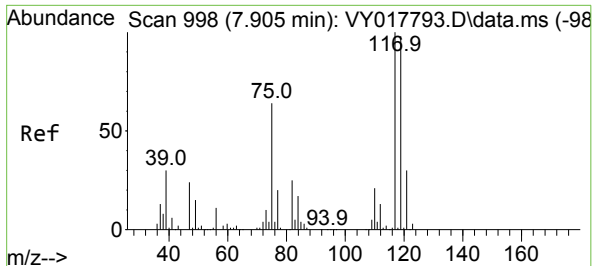
Tgt Ion:113 Resp: 74065
Ion Ratio Lower Upper
113 100
111 103.2 82.2 123.4
192 19.4 15.9 23.9



#36
1,1-Dichloropropene
Concen: 5.361 ug/l
RT: 7.801 min Scan# 981
Delta R.T. -0.116 min
Lab File: VY017844.D
Acq: 04 Apr 2024 11:14

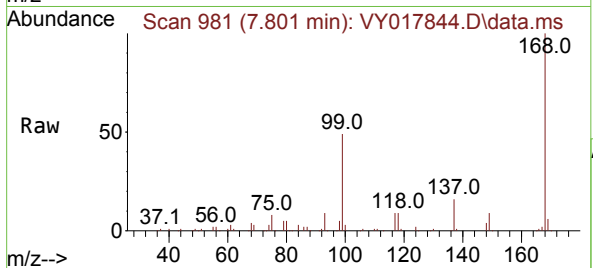
Tgt Ion: 75 Resp: 10316
Ion Ratio Lower Upper
75 100
110 7.6 19.0 57.0#
77 0.0 25.3 37.9#



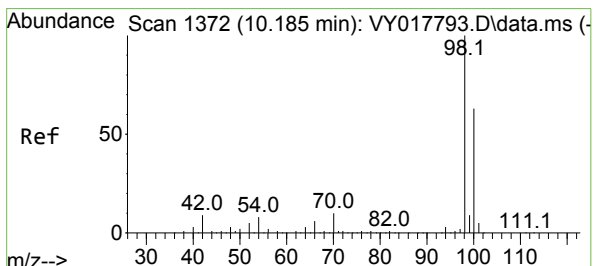
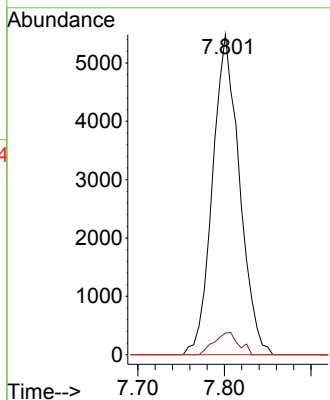
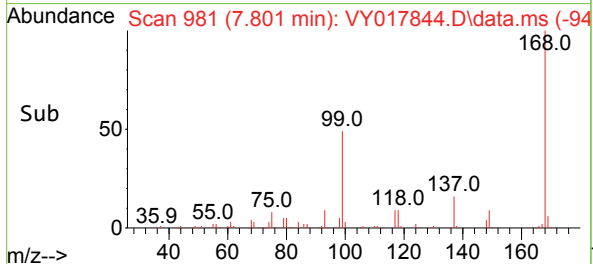


#38
Carbon Tetrachloride
Concen: 5.930 ug/l
RT: 7.801 min Scan# 91
Delta R.T. -0.104 min
Lab File: VY017844.D
Acq: 04 Apr 2024 11:14

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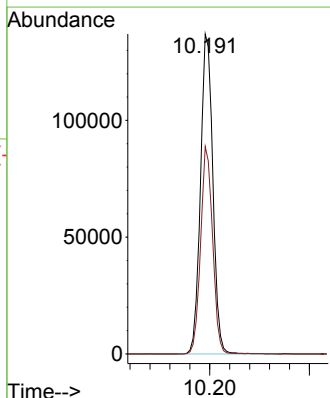
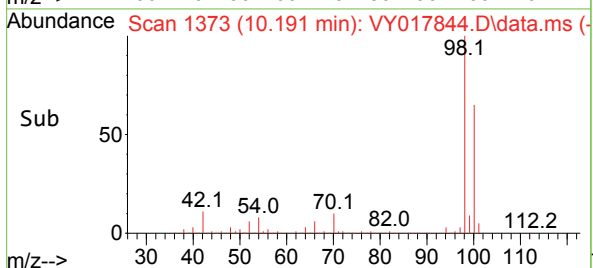
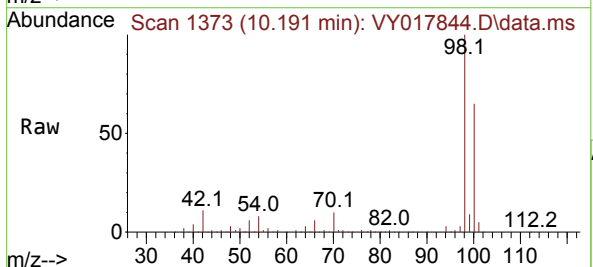


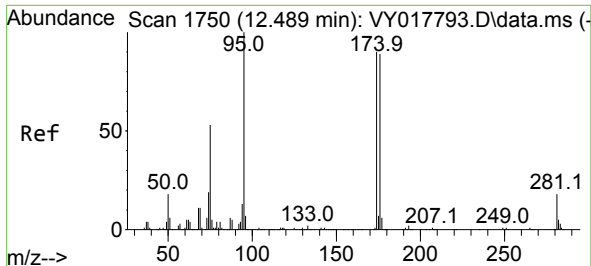
Tgt Ion:117 Resp: 11846
Ion Ratio Lower Upper
117 100
119 6.8 75.8 113.6#
121 0.0 24.0 36.0#



#50
Toluene-d8
Concen: 47.706 ug/l
RT: 10.191 min Scan# 1373
Delta R.T. 0.006 min
Lab File: VY017844.D
Acq: 04 Apr 2024 11:14

Tgt Ion: 98 Resp: 235037
Ion Ratio Lower Upper
98 100
100 63.0 52.0 78.0

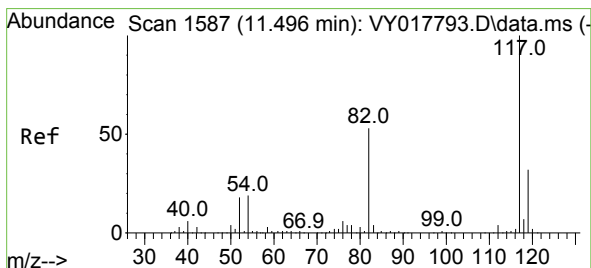
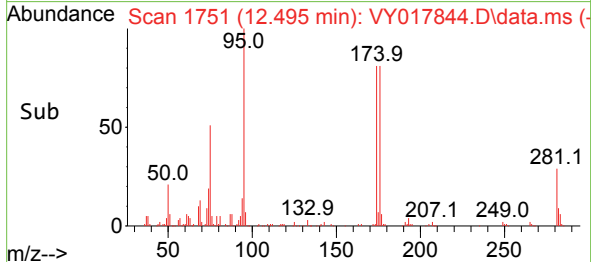
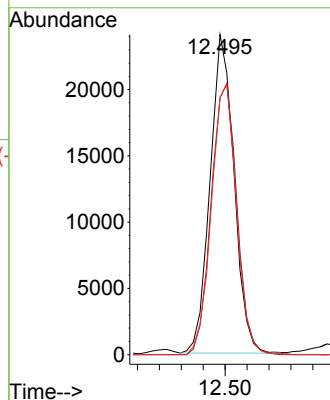
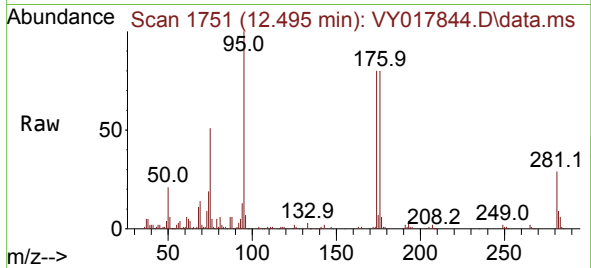




#62
4-Bromofluorobenzene
Concen: 24.295 ug/l
RT: 12.495 min Scan# 1751
Delta R.T. 0.006 min
Lab File: VY017844.D
Acq: 04 Apr 2024 11:14

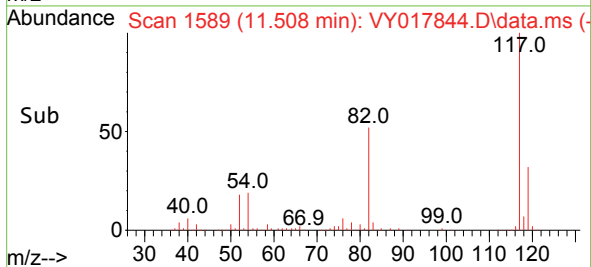
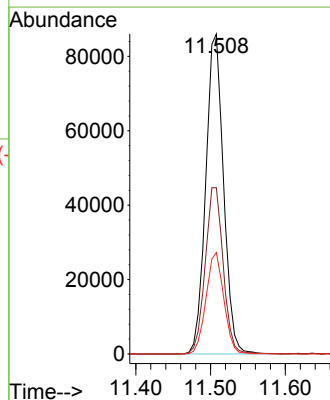
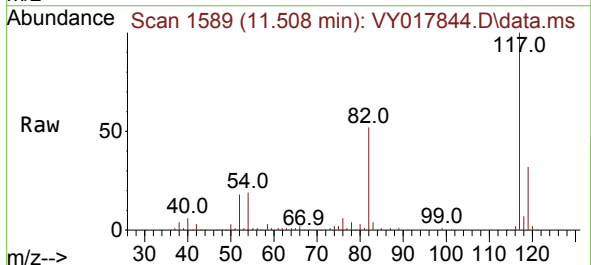
Instrument :
MSVOA_Y
ClientSampleId :
RBR21145RE

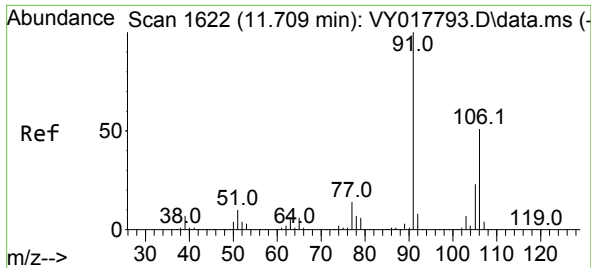
Tgt Ion: 95 Resp: 36417
Ion Ratio Lower Upper
95 100
174 91.1 0.0 175.6
176 89.2 0.0 171.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.508 min Scan# 1589
Delta R.T. 0.012 min
Lab File: VY017844.D
Acq: 04 Apr 2024 11:14

Tgt Ion: 117 Resp: 142245
Ion Ratio Lower Upper
117 100
82 51.9 42.4 63.6
119 31.7 25.9 38.9

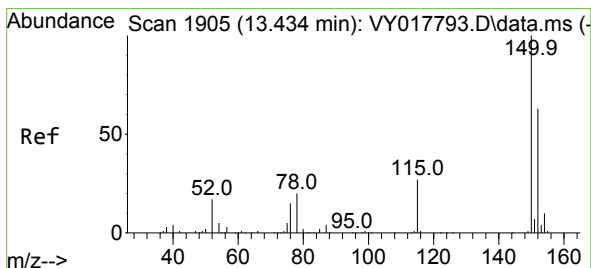
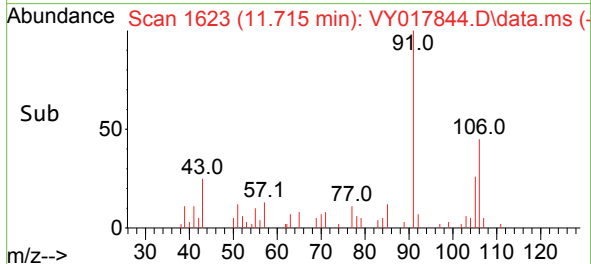
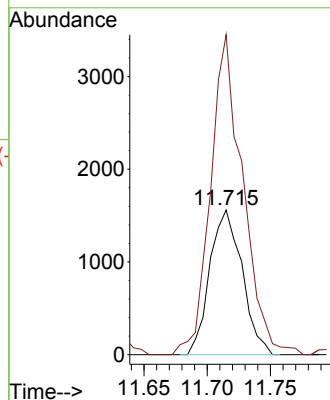
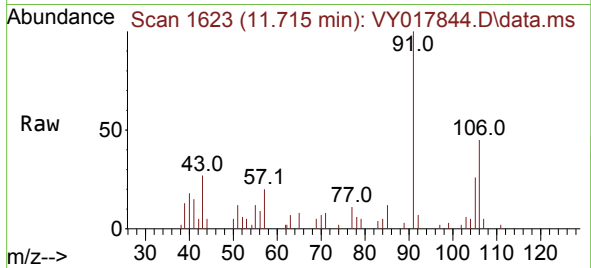




#68
m/p-Xylenes
Concen: 1.458 ug/l
RT: 11.715 min Scan# 11
Delta R.T. 0.006 min
Lab File: VY017844.D
Acq: 04 Apr 2024 11:14

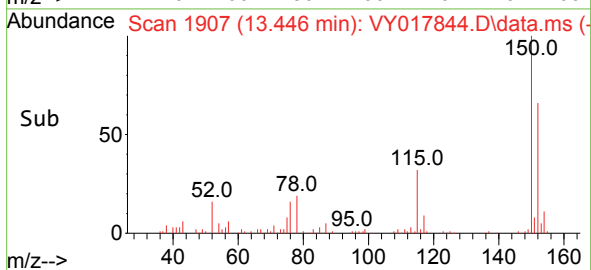
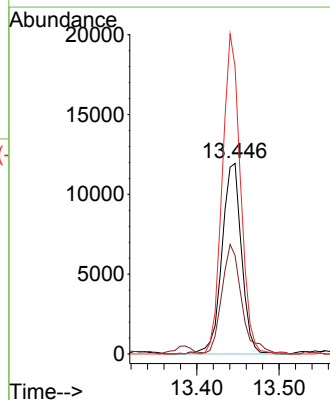
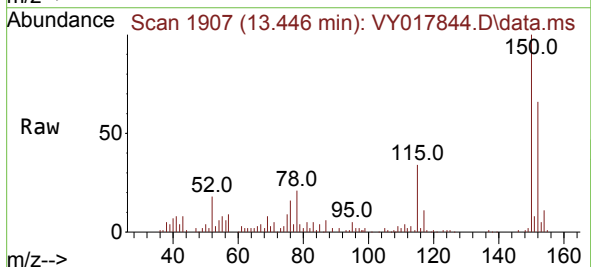
Instrument :
MSVOA_Y
ClientSampleId :
RBR21145RE

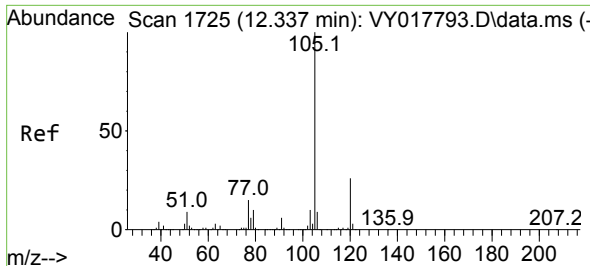
Tgt Ion:106 Resp: 2774
Ion Ratio Lower Upper
106 100
91 220.9 156.0 234.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.446 min Scan# 1907
Delta R.T. 0.012 min
Lab File: VY017844.D
Acq: 04 Apr 2024 11:14

Tgt Ion:152 Resp: 19748
Ion Ratio Lower Upper
152 100
115 58.6 28.2 84.7
150 156.4 0.0 345.6

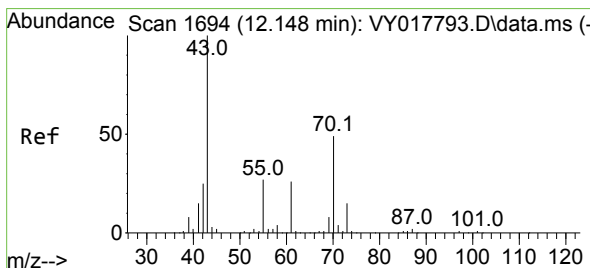
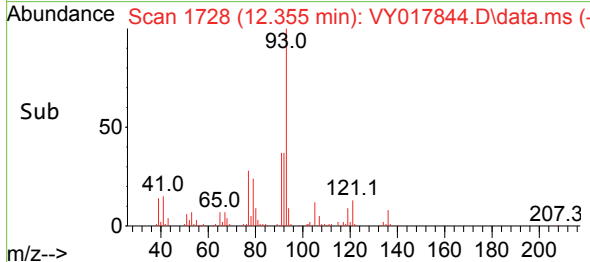
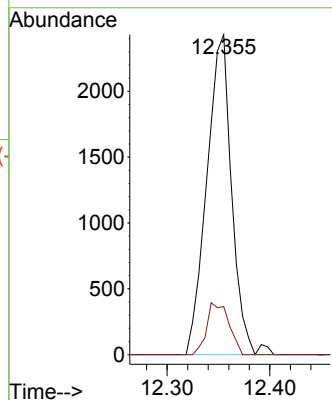
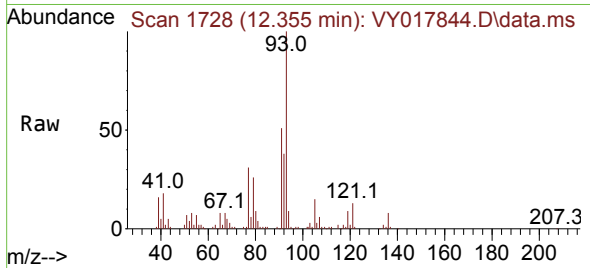




#73
Isopropylbenzene
Concen: 2.956 ug/l
RT: 12.355 min Scan# 11
Delta R.T. 0.018 min
Lab File: VY017844.D
Acq: 04 Apr 2024 11:14

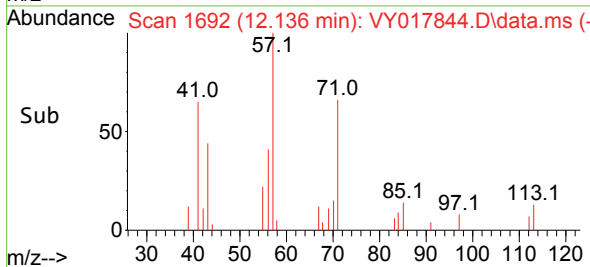
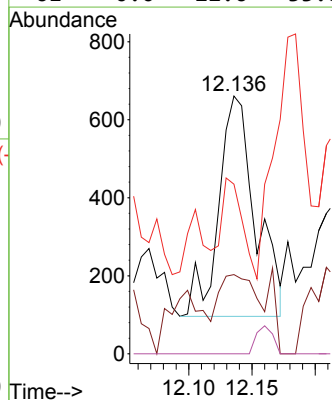
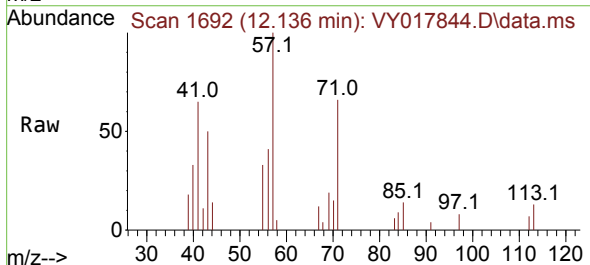
Instrument :
MSVOA_Y
ClientSampleId :
RBR21145RE

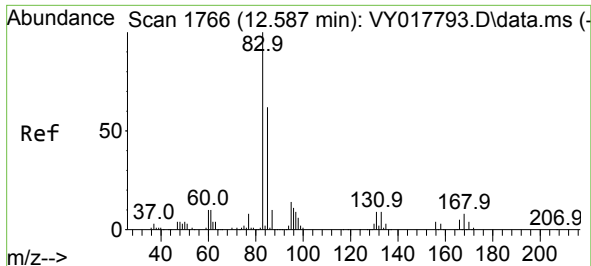
Tgt Ion:105 Resp: 4091
Ion Ratio Lower Upper
105 100
120 14.4 13.4 40.1



#74
N-ethyl acetate
Concen: 4.550 ug/l
RT: 12.136 min Scan# 1692
Delta R.T. -0.012 min
Lab File: VY017844.D
Acq: 04 Apr 2024 11:14

Tgt Ion: 43 Resp: 1142
Ion Ratio Lower Upper
43 100
70 0.0 41.4 62.2#
55 25.8 23.3 34.9
61 0.0 22.6 33.8#

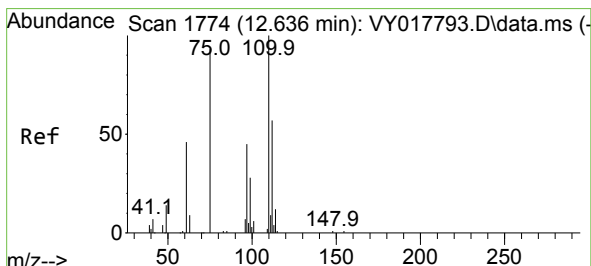
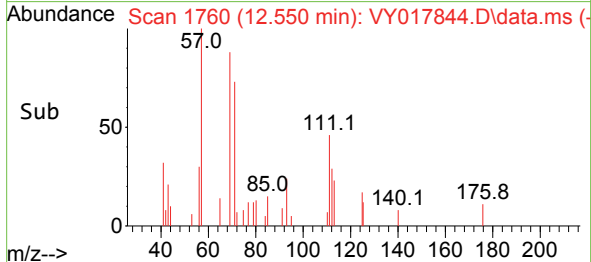
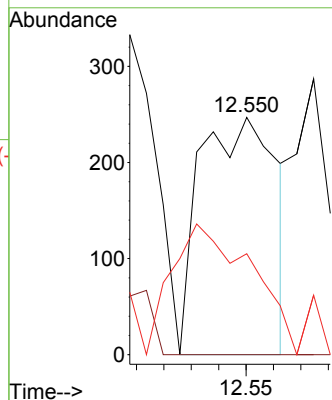
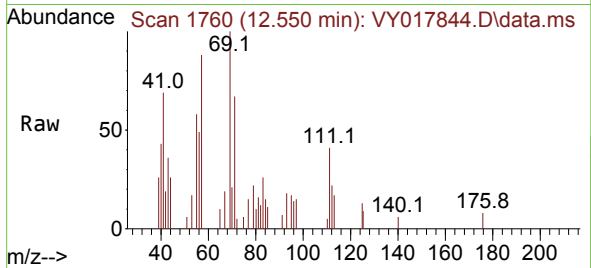




#75
1,1,2,2-Tetrachloroethane
Concen: 2.005 ug/l
RT: 12.550 min Scan# 1751
Delta R.T. -0.037 min
Lab File: VY017844.D
Acq: 04 Apr 2024 11:14

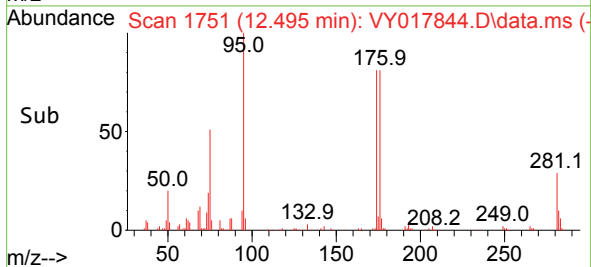
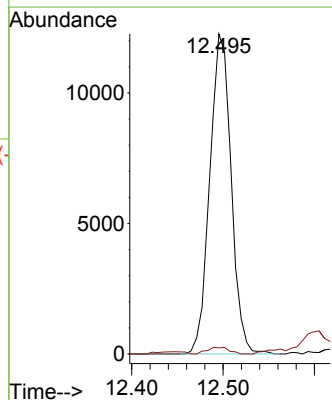
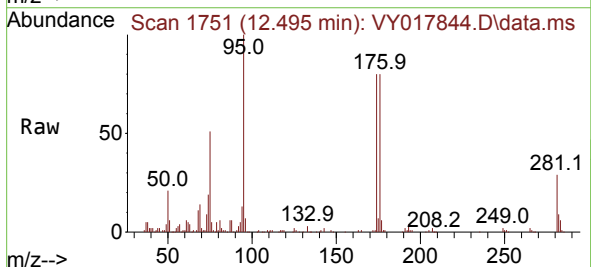
Instrument :
MSVOA_Y
ClientSampleId :
RBR21145RE

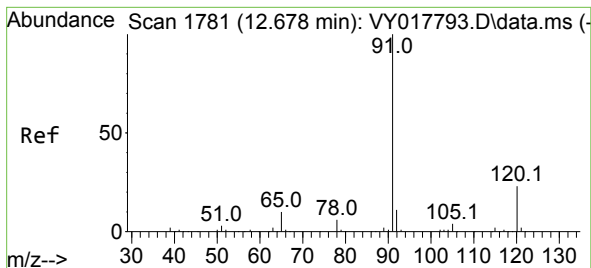
Tgt Ion: 83 Resp: 480
Ion Ratio Lower Upper
83 100
131 0.0 5.0 14.9#
85 57.7 32.0 96.0



#76
1,2,3-Trichloropropane
Concen: 110.528 ug/l
RT: 12.495 min Scan# 1751
Delta R.T. -0.140 min
Lab File: VY017844.D
Acq: 04 Apr 2024 11:14

Tgt Ion: 75 Resp: 19890
Ion Ratio Lower Upper
75 100
77 2.1 0.0 0.0#





#78

n-propylbenzene

Concen: 1.711 ug/l

RT: 12.684 min Scan# 1782

Delta R.T. 0.006 min

Lab File: VY017844.D

Acq: 04 Apr 2024 11:14

Instrument :

MSVOA_Y

ClientSampleId :

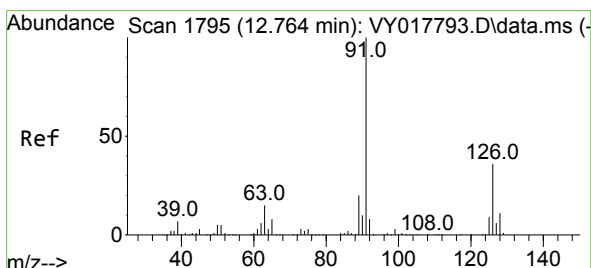
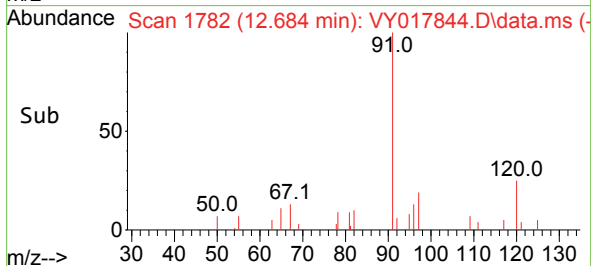
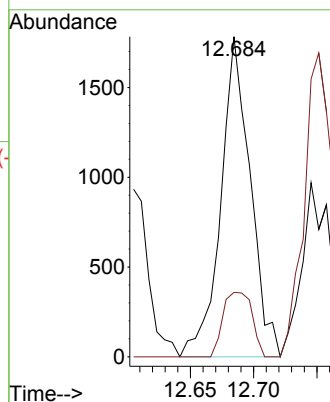
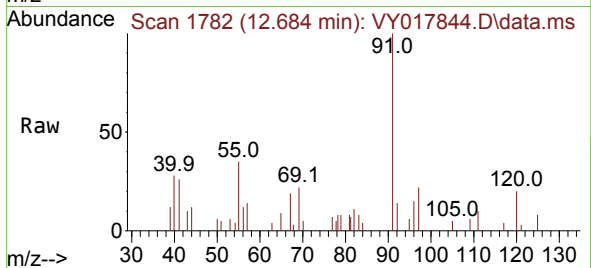
RBR21145RE

Tgt Ion: 91 Resp: 2889

Ion Ratio Lower Upper

91 100

120 19.8 11.5 34.4



#79

2-Chlorotoluene

Concen: 1.531 ug/l

RT: 12.745 min Scan# 1792

Delta R.T. -0.018 min

Lab File: VY017844.D

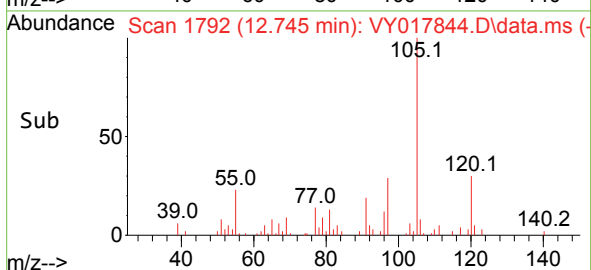
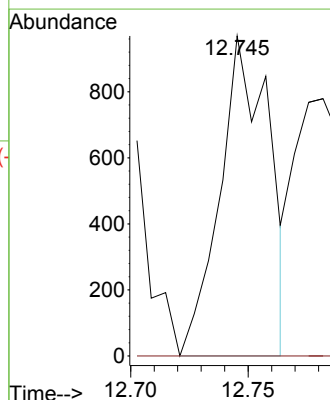
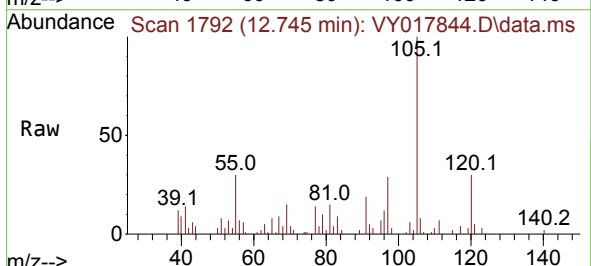
Acq: 04 Apr 2024 11:14

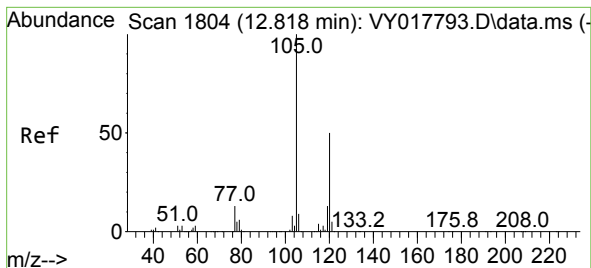
Tgt Ion: 91 Resp: 1416

Ion Ratio Lower Upper

91 100

126 0.0 17.8 53.5#





#80

1,3,5-Trimethylbenzene

Concen: 6.741 ug/l

RT: 12.825 min Scan# 11

Delta R.T. 0.006 min

Lab File: VY017844.D

Acq: 04 Apr 2024 11:14

Instrument :

MSVOA_Y

ClientSampleId :

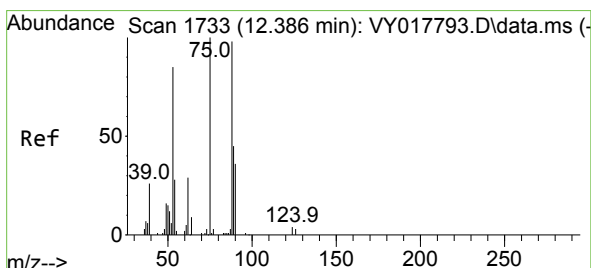
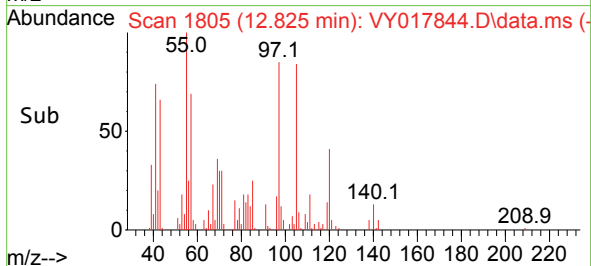
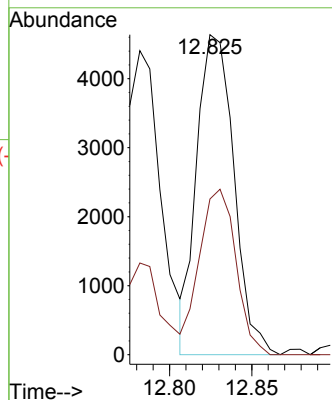
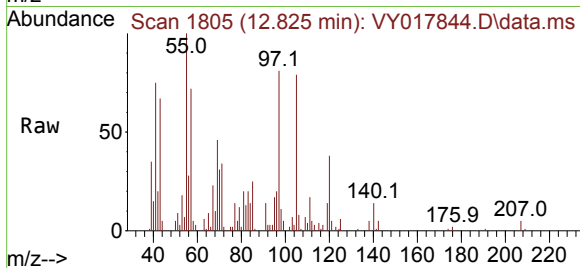
RBR21145RE

Tgt Ion:105 Resp: 7281

Ion Ratio Lower Upper

105 100

120 50.9 25.1 75.2



#81

trans-1,4-Dichloro-2-butene

Concen: 178.320 ug/l

RT: 12.495 min Scan# 1751

Delta R.T. 0.109 min

Lab File: VY017844.D

Acq: 04 Apr 2024 11:14

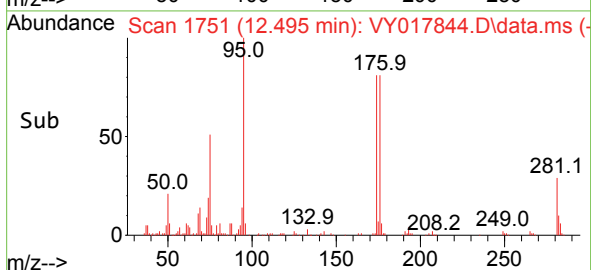
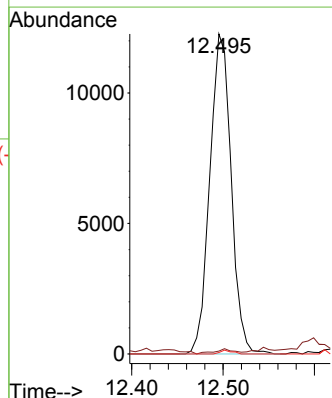
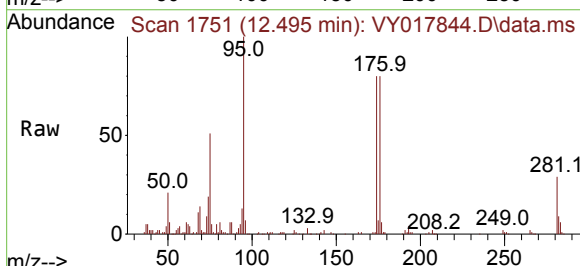
Tgt Ion: 75 Resp: 19890

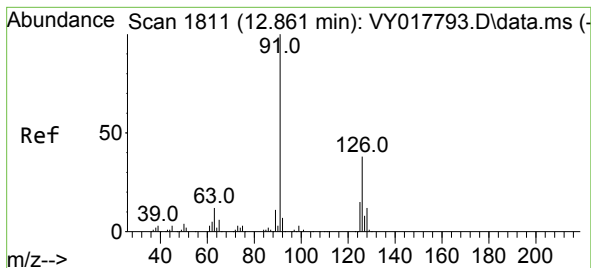
Ion Ratio Lower Upper

75 100

53 1.5 66.8 100.2#

89 0.7 35.8 53.6#





#82

4-Chlorotoluene

Concen: 1.168 ug/l

RT: 12.825 min Scan# 1805

Delta R.T. -0.037 min

Lab File: VY017844.D

Acq: 04 Apr 2024 11:14

Instrument :

MSVOA_Y

ClientSampleId :

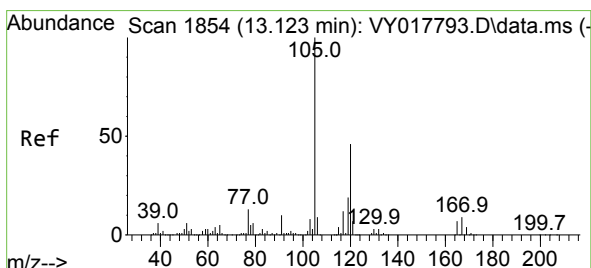
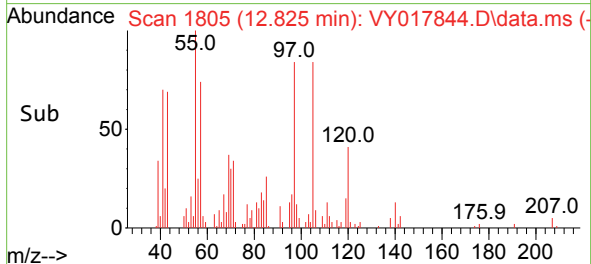
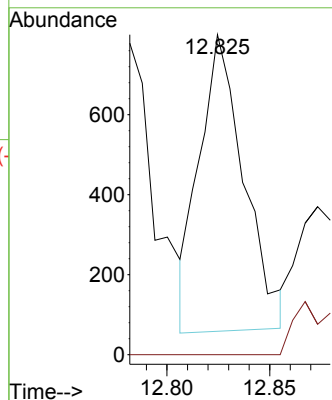
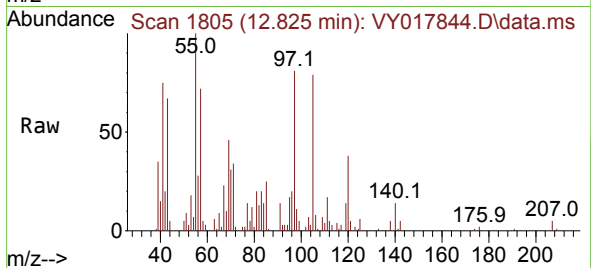
RBR21145RE

Tgt Ion: 91 Resp: 1119

Ion Ratio Lower Upper

91 100

126 0.0 17.6 52.9#



#84

1,2,4-Trimethylbenzene

Concen: 16.157 ug/l

RT: 13.136 min Scan# 1856

Delta R.T. 0.012 min

Lab File: VY017844.D

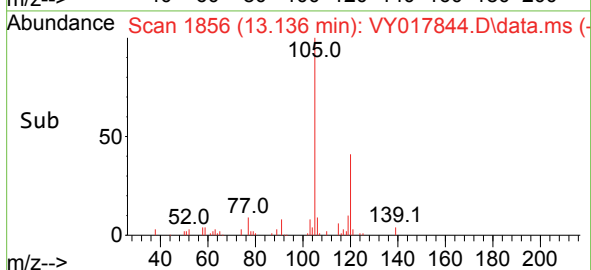
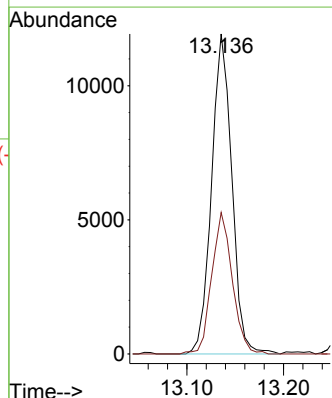
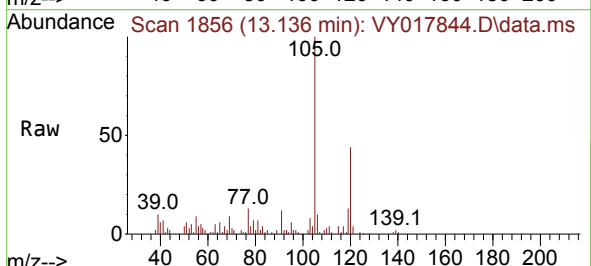
Acq: 04 Apr 2024 11:14

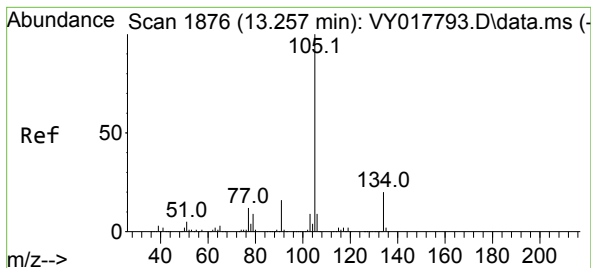
Tgt Ion:105 Resp: 17380

Ion Ratio Lower Upper

105 100

120 44.9 23.2 69.6





#85

sec-Butylbenzene

Concen: 2.080 ug/l

RT: 13.270 min Scan# 1876

Delta R.T. 0.012 min

Lab File: VY017844.D

Acq: 04 Apr 2024 11:14

Instrument :

MSVOA_Y

ClientSampleId :

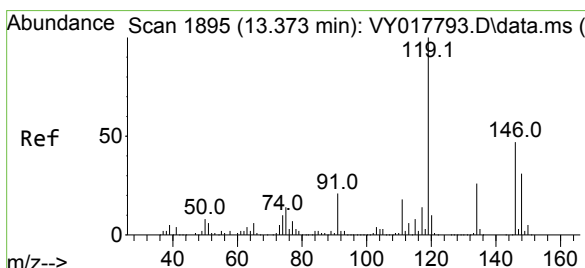
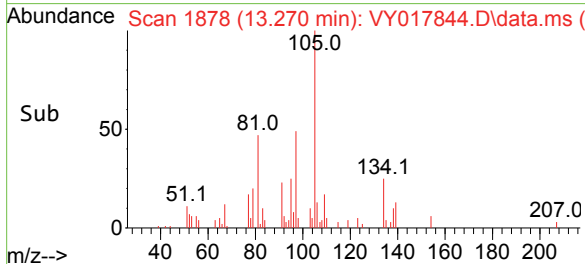
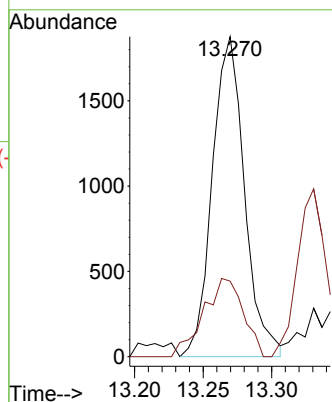
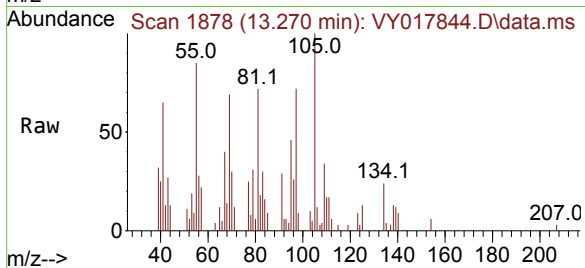
RBR21145RE

Tgt Ion:105 Resp: 3066

Ion Ratio Lower Upper

105 100

134 30.2 10.1 30.1#



#86

p-Isopropyltoluene

Concen: 7.167 ug/l

RT: 13.385 min Scan# 1897

Delta R.T. 0.012 min

Lab File: VY017844.D

Acq: 04 Apr 2024 11:14

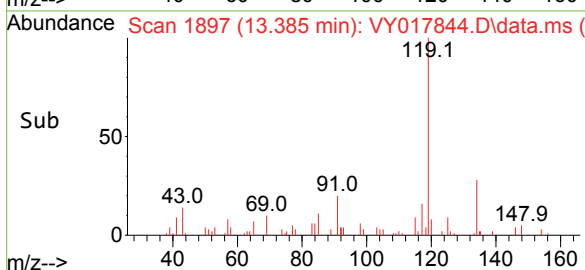
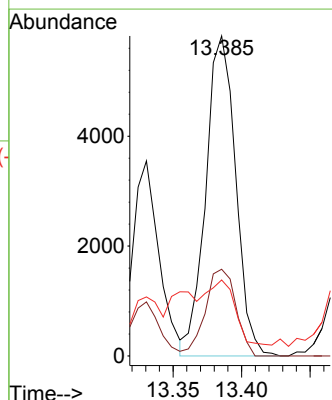
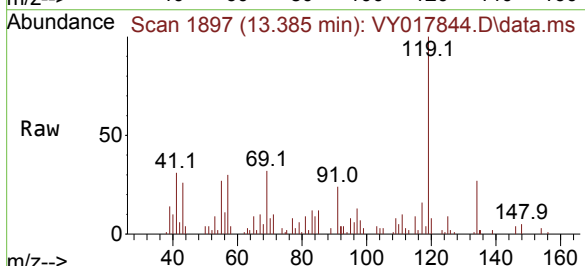
Tgt Ion:119 Resp: 8829

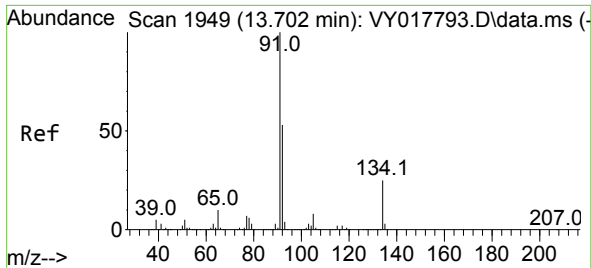
Ion Ratio Lower Upper

119 100

134 27.7 13.1 39.3

91 15.8 10.7 32.1

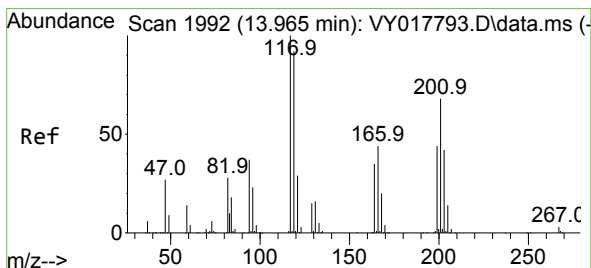
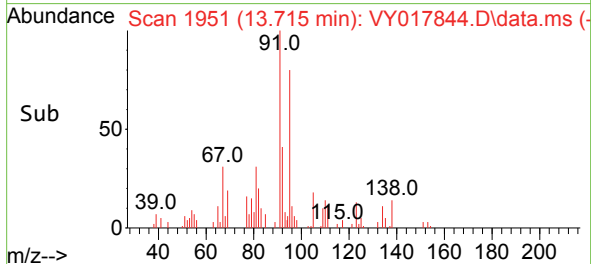
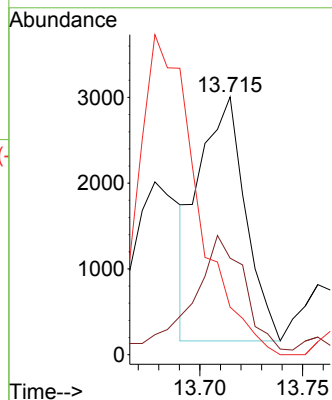
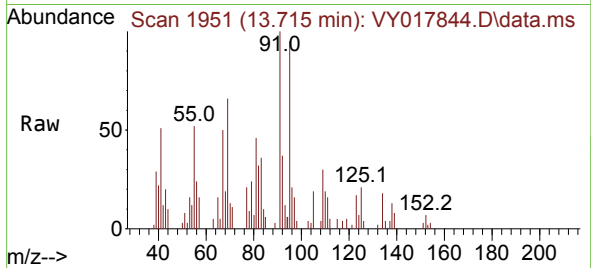




#89
n-Butylbenzene
Concen: 3.924 ug/l
RT: 13.715 min Scan# 1949
Delta R.T. 0.012 min
Lab File: VY017844.D
Acq: 04 Apr 2024 11:14

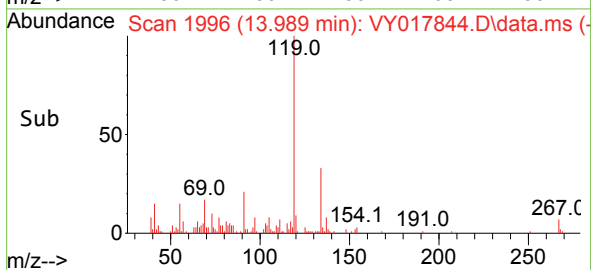
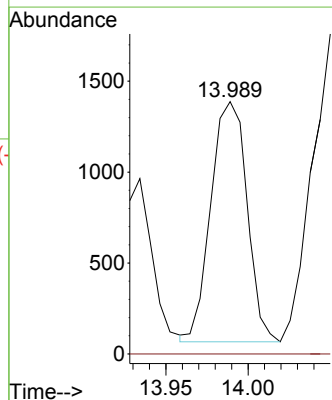
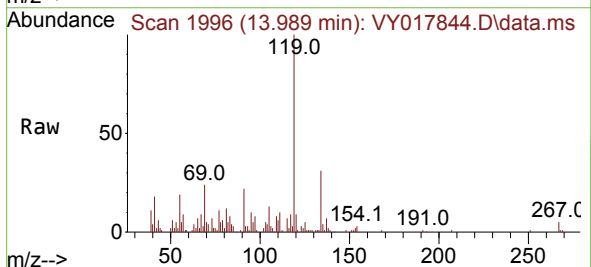
Instrument :
MSVOA_Y
ClientSampleId :
RBR21145RE

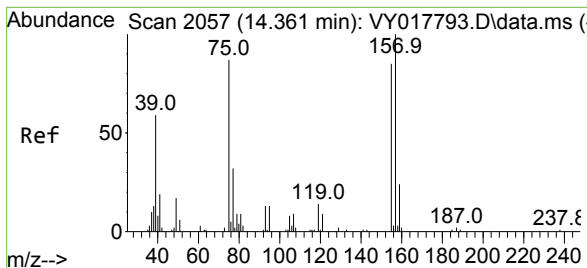
Tgt Ion: 91 Resp: 4447
Ion Ratio Lower Upper
91 100
92 52.8 26.6 79.7
134 0.0 12.9 38.7#



#90
Hexachloroethane
Concen: 8.234 ug/l
RT: 13.989 min Scan# 1996
Delta R.T. 0.024 min
Lab File: VY017844.D
Acq: 04 Apr 2024 11:14

Tgt Ion: 117 Resp: 2017
Ion Ratio Lower Upper
117 100
201 0.0 37.4 112.2#

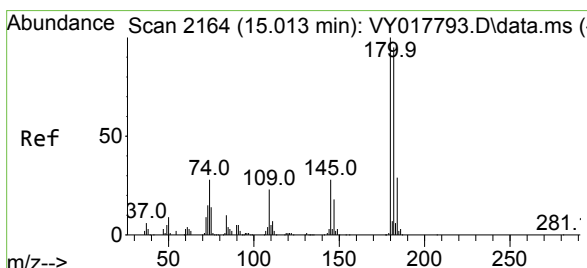
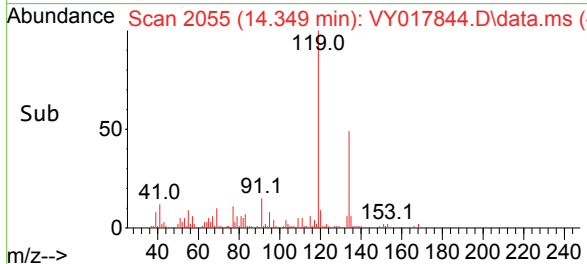
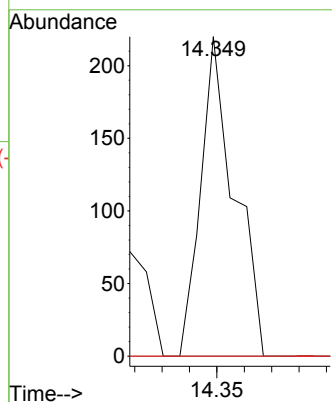
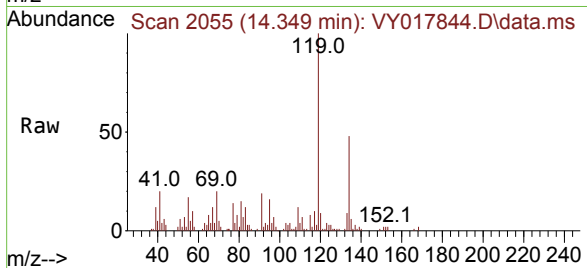




#92
 1,2-Dibromo-3-Chloropropane
 Concen: 5.811 ug/l
 RT: 14.349 min Scan# 2055
 Delta R.T. -0.012 min
 Lab File: VY017844.D
 Acq: 04 Apr 2024 11:14

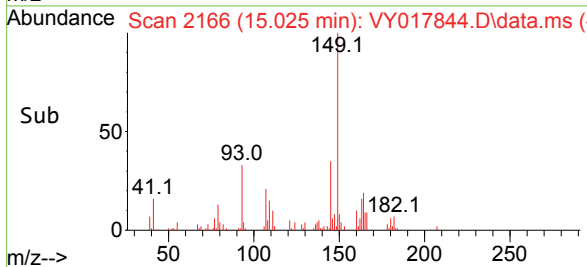
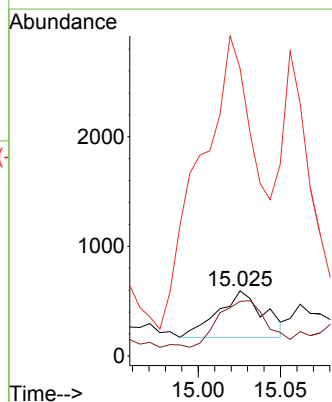
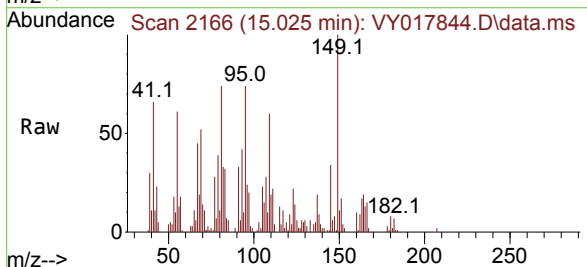
Instrument :
 MSVOA_Y
 ClientSampleId :
 RBR21145RE

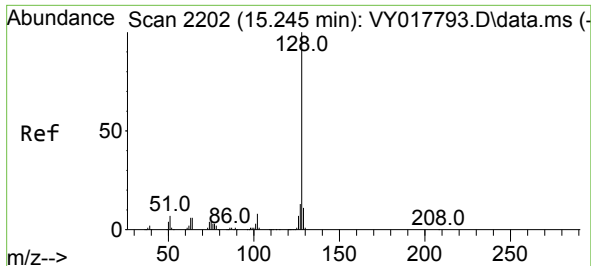
Tgt Ion: 75 Resp: 188
 Ion Ratio Lower Upper
 75 100
 155 0.0 48.6 145.8#
 157 0.0 62.7 188.2#



#93
 1,2,4-Trichlorobenzene
 Concen: 2.785 ug/l
 RT: 15.025 min Scan# 2166
 Delta R.T. 0.012 min
 Lab File: VY017844.D
 Acq: 04 Apr 2024 11:14

Tgt Ion: 180 Resp: 827
 Ion Ratio Lower Upper
 180 100
 182 106.9 47.9 143.8
 145 870.9 14.2 42.6#

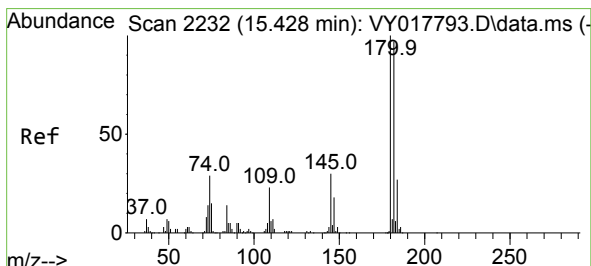
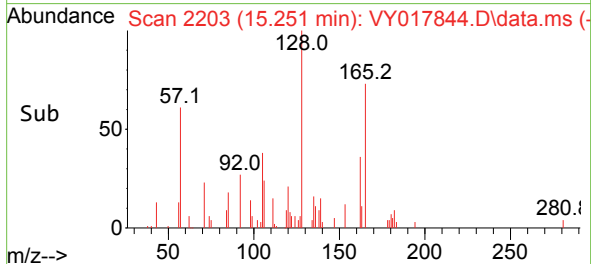
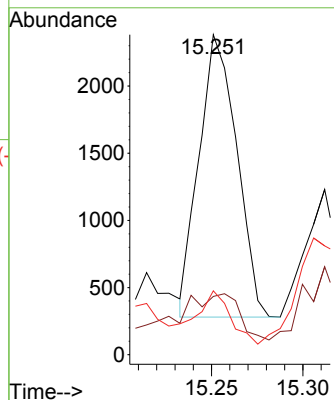
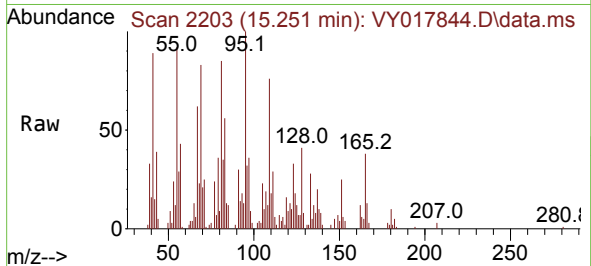




#95
Naphthalene
Concen: 8.048 ug/l
RT: 15.251 min Scan# 2117
Delta R.T. 0.006 min
Lab File: VY017844.D
Acq: 04 Apr 2024 11:14

Instrument :
MSVOA_Y
ClientSampleId :
RBR21145RE

Tgt Ion:128 Resp: 3017
Ion Ratio Lower Upper
128 100
127 37.9 10.6 16.0#
129 16.0 8.6 13.0#



#96
1,2,3-Trichlorobenzene
Concen: 14.416 ug/l
RT: 15.409 min Scan# 2229
Delta R.T. -0.018 min
Lab File: VY017844.D
Acq: 04 Apr 2024 11:14

Tgt Ion:180 Resp: 3616
Ion Ratio Lower Upper
180 100
182 4.7 47.6 142.9#
145 61.1 15.4 46.1#

