

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY040324\
 Data File : VY017835.D
 Acq On : 03 Apr 2024 14:59
 Operator : SY/MD
 Sample : P1952-09
 Misc : 6.79g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 WC-C-GRAB

Quant Time: Apr 04 01:12:32 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)

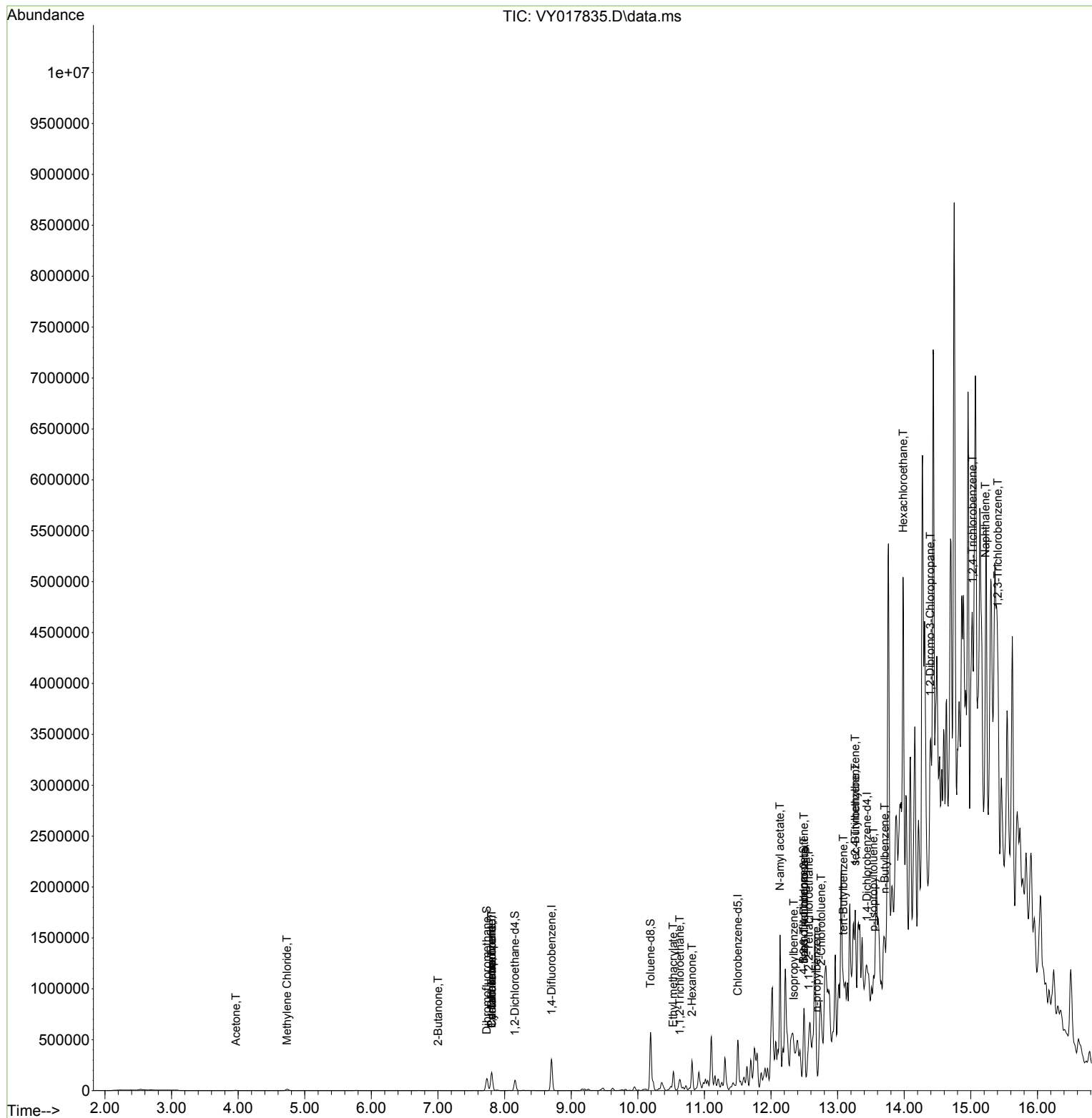
Internal Standards						
1) Pentafluorobenzene	7.807	168	141213	50.000	ug/l	0.01
34) 1,4-Difluorobenzene	8.703	114	263484	50.000	ug/l	0.01
63) Chlorobenzene-d5	11.502	117	240328	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.440	152	128695	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.155	65	80057	65.515	ug/l	0.01
Spiked Amount	50.000	Range	50 - 163	Recovery	= 131.020%	
35) Dibromofluoromethane	7.734	113	83918	55.118	ug/l	0.02
Spiked Amount	50.000	Range	54 - 147	Recovery	= 110.240%	
50) Toluene-d8	10.191	98	325538	57.239	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	= 114.480%	
62) 4-Bromofluorobenzene	12.489	95	126729	73.239	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	= 146.480%#	
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	4.972	59	19	Below Cal	#	88
16) Acetone	3.967	43	5482	21.703	ug/l	88
20) Methylene Chloride	4.735	84	10583	4.417	ug/l #	89
25) 2-Butanone	7.003	43	881	2.448	ug/l	97
31) Cyclohexane	7.807	56	2870	1.333	ug/l #	13
36) 1,1-Dichloropropene	7.807	75	10414	4.688	ug/l #	47
38) Carbon Tetrachloride	7.807	117	13190	5.719	ug/l #	17
41) Methacrylonitrile	7.387	41	129	Below Cal	#	36
51) 4-Methyl-2-Pentanone	10.081	43	512	Below Cal	#	31
55) 1,1,2-Trichloroethane	10.630	97	36637	30.422	ug/l #	21
56) Ethyl methacrylate	10.532	69	16675	12.888	ug/l #	1
59) 2-Hexanone	10.813	43	97024	167.770	ug/l #	23
69) o-Xylene	12.044	106	2061	Below Cal	#	1
70) Styrene	12.057	104	478	Below Cal	#	1
73) Isopropylbenzene	12.343	105	24067	2.668	ug/l	96
74) N-amyl acetate	12.136	43	260485	120.047	ug/l #	52
75) 1,1,2,2-Tetrachloroethane	12.569	83	37623	24.116	ug/l #	79
76) 1,2,3-Trichloropropane	12.495	75	51452	43.873	ug/l #	100
78) n-propylbenzene	12.684	91	16415	1.492	ug/l	82
79) 2-Chlorotoluene	12.752	91	7296	1.210	ug/l #	57
81) trans-1,4-Dichloro-2-b...	12.495	75	51452	89.994	ug/l #	29
83) tert-Butylbenzene	13.087	119	35570	5.558	ug/l	78
84) 1,2,4-Trimethylbenzene	13.264	105	294154	41.961	ug/l #	30
85) sec-Butylbenzene	13.264	105	294154	30.626	ug/l #	74
86) p-Isopropyltoluene	13.538	119	69591	8.668	ug/l #	78
89) n-Butylbenzene	13.709	91	86103	11.657	ug/l #	69
90) Hexachloroethane	13.983	117	89002	55.752	ug/l #	12
92) 1,2-Dibromo-3-Chloropr...	14.391	75	3324	15.767	ug/l #	1
93) 1,2,4-Trichlorobenzene	15.025	180	11149	5.761	ug/l #	1
95) Naphthalene	15.221	128	47337	17.625	ug/l #	1
96) 1,2,3-Trichlorobenzene	15.403	180	30794	18.839	ug/l #	1

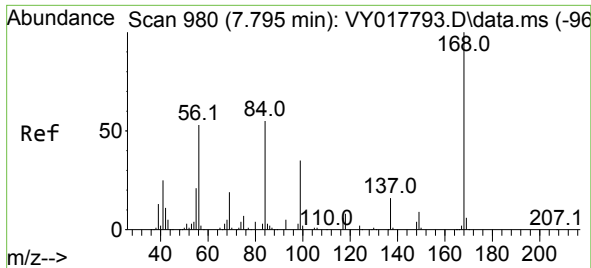
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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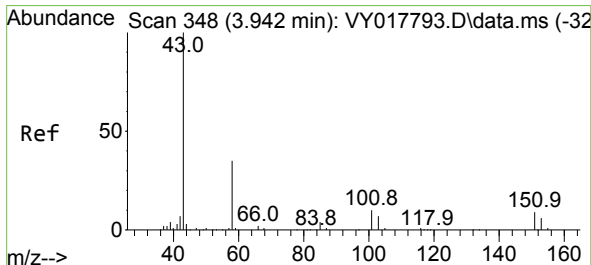
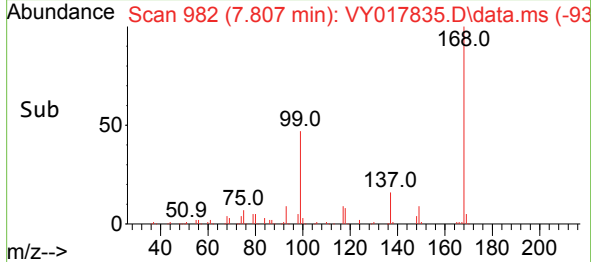
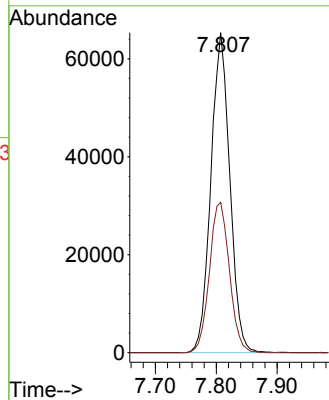
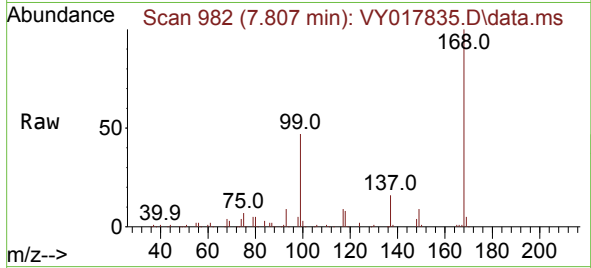




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.807 min Scan# 91
Delta R.T. 0.012 min
Lab File: VY017835.D
Acq: 03 Apr 2024 14:59

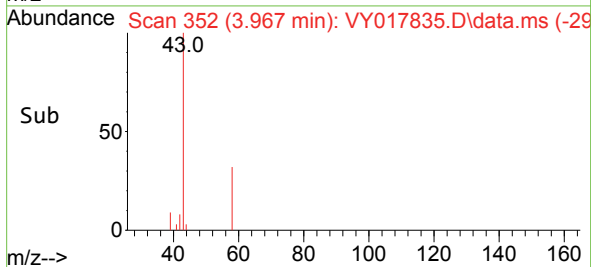
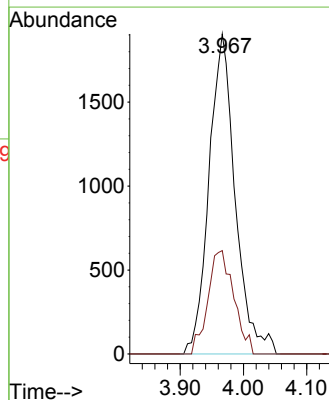
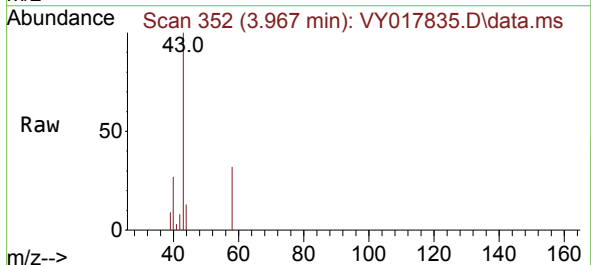
Instrument :
MSVOA_Y
ClientSampleId :
WC-C-GRAB

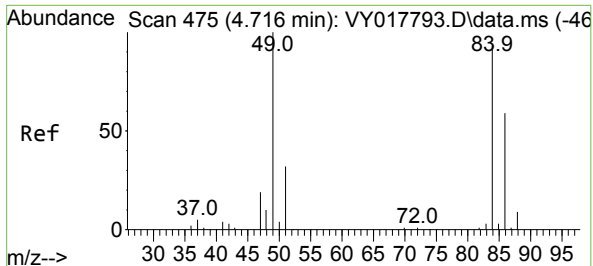
Tgt Ion:168 Resp: 141213
Ion Ratio Lower Upper
168 100
99 47.0 39.1 58.7



#16
Acetone
Concen: 21.703 ug/l
RT: 3.967 min Scan# 352
Delta R.T. 0.025 min
Lab File: VY017835.D
Acq: 03 Apr 2024 14:59

Tgt Ion: 43 Resp: 5482
Ion Ratio Lower Upper
43 100
58 32.3 31.7 47.5



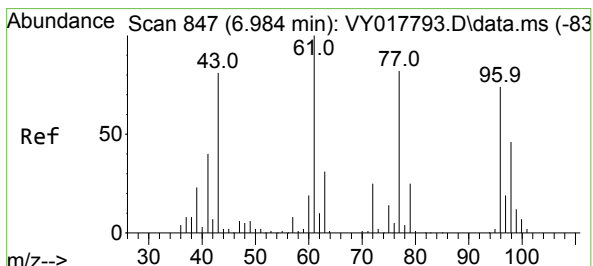
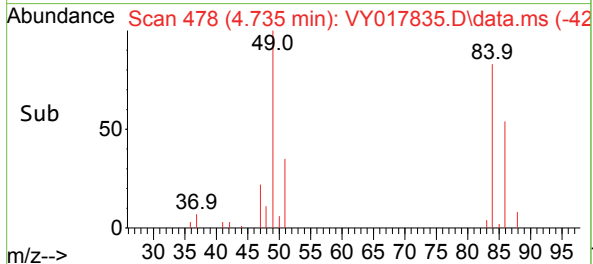
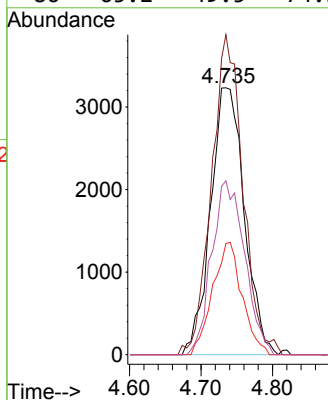
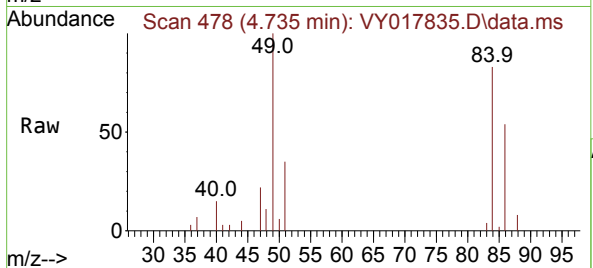


#20
Methylene Chloride
Concen: 4.417 ug/l
RT: 4.735 min Scan# 41
Delta R.T. 0.019 min
Lab File: VY017835.D
Acq: 03 Apr 2024 14:59

Instrument :
MSVOA_Y
ClientSampleId :
WC-C-GRAB

Tgt Ion: 84 Resp: 10583

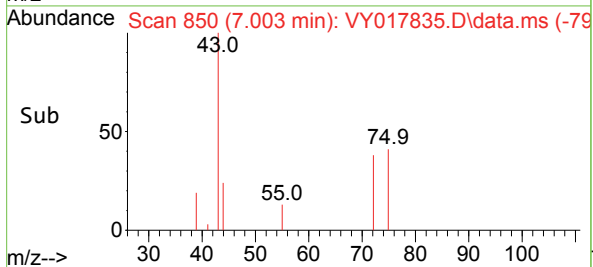
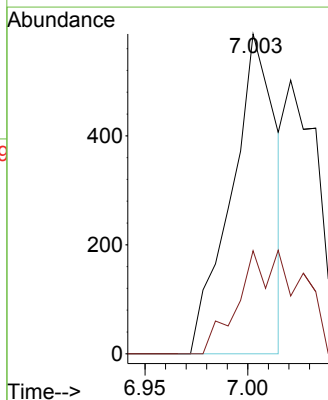
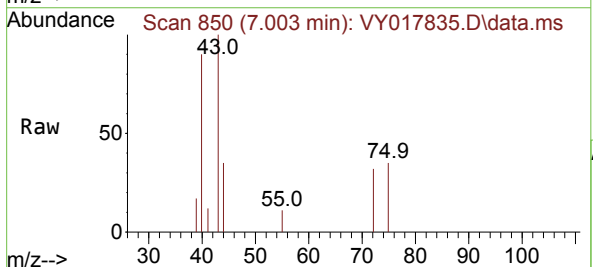
Ion	Ratio	Lower	Upper
84	100		
49	119.9	84.4	126.6
51	41.6	26.0	39.0
86	65.2	49.5	74.3

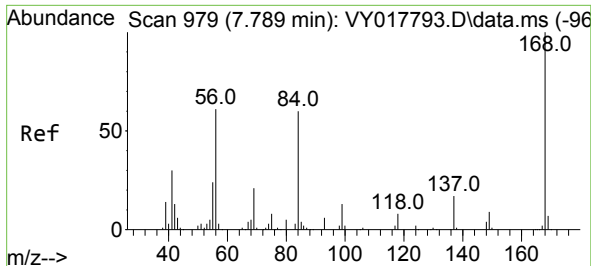


#25
2-Butanone
Concen: 2.448 ug/l
RT: 7.003 min Scan# 850
Delta R.T. 0.018 min
Lab File: VY017835.D
Acq: 03 Apr 2024 14:59

Tgt Ion: 43 Resp: 881

Ion	Ratio	Lower	Upper
43	100		
72	32.2	27.3	40.9

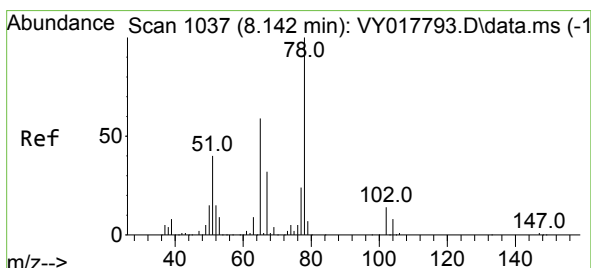
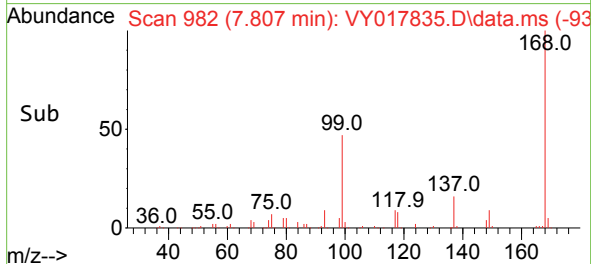
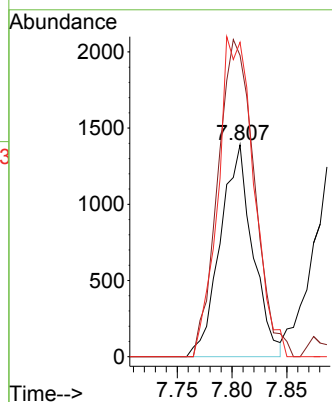
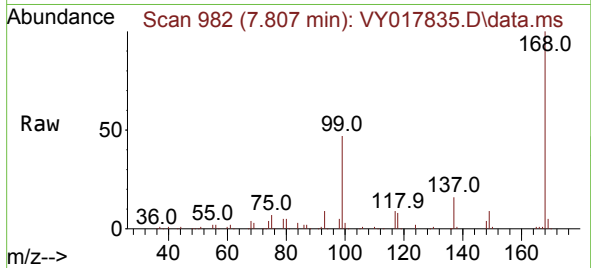




#31
Cyclohexane
Concen: 1.333 ug/l
RT: 7.807 min Scan# 91
Delta R.T. 0.018 min
Lab File: VY017835.D
Acq: 03 Apr 2024 14:59

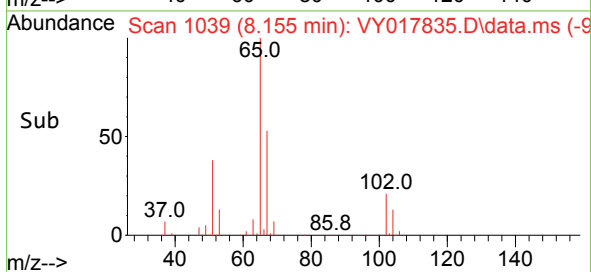
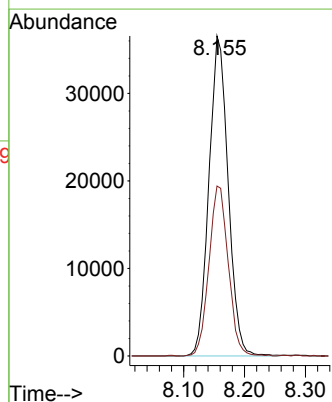
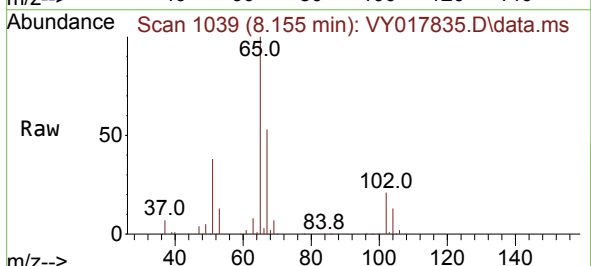
Instrument :
MSVOA_Y
ClientSampleId :
WC-C-GRAB

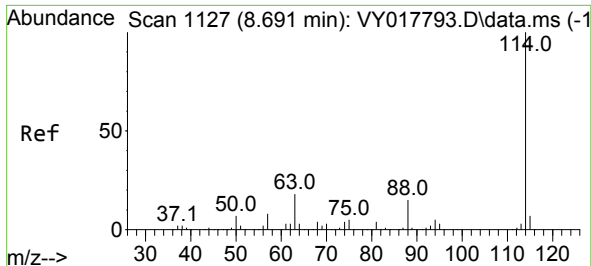
Tgt Ion: 56 Resp: 2870
Ion Ratio Lower Upper
56 100
69 142.2 28.7 43.1#
84 148.4 77.7 116.5#



#33
1,2-Dichloroethane-d4
Concen: 65.515 ug/l
RT: 8.155 min Scan# 1039
Delta R.T. 0.012 min
Lab File: VY017835.D
Acq: 03 Apr 2024 14:59

Tgt Ion: 65 Resp: 80057
Ion Ratio Lower Upper
65 100
67 53.4 0.0 109.6

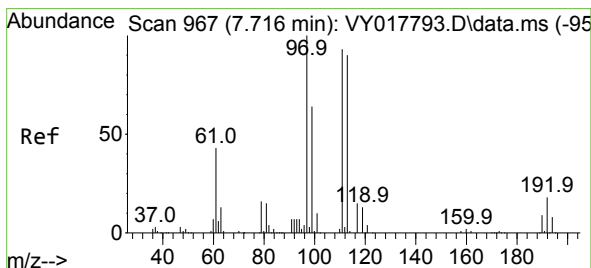
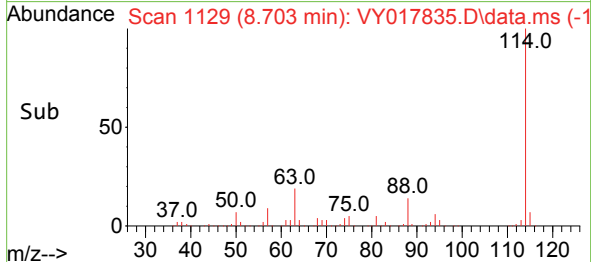
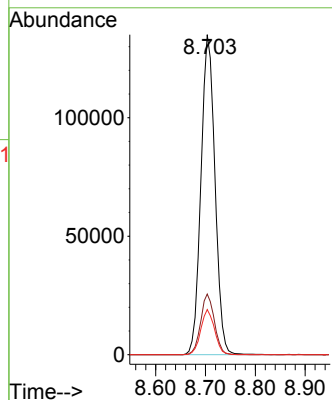
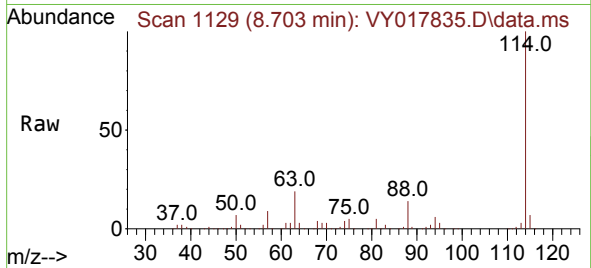




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.703 min Scan# 1127
Delta R.T. 0.012 min
Lab File: VY017835.D
Acq: 03 Apr 2024 14:59

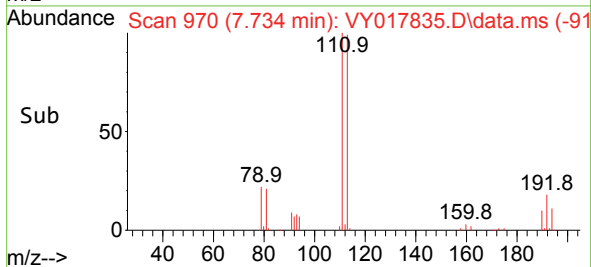
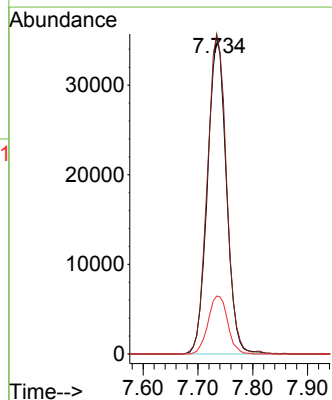
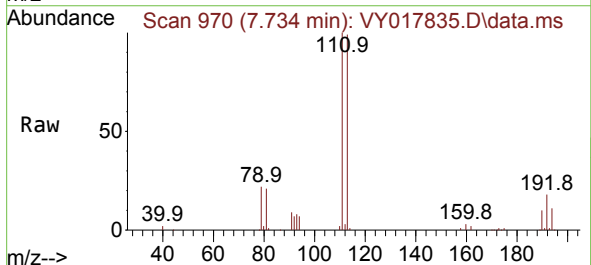
Instrument :
MSVOA_Y
ClientSampleId :
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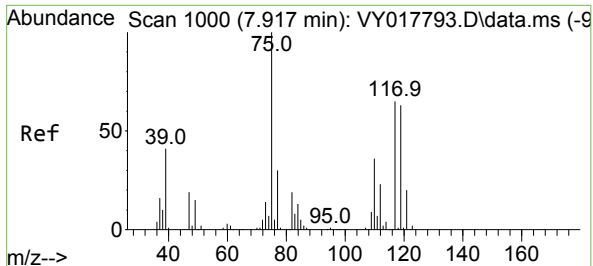
Tgt Ion:114 Resp: 263484
Ion Ratio Lower Upper
114 100
63 19.0 0.0 35.0
88 14.1 0.0 27.2



#35
Dibromofluoromethane
Concen: 55.118 ug/l
RT: 7.734 min Scan# 970
Delta R.T. 0.018 min
Lab File: VY017835.D
Acq: 03 Apr 2024 14:59

Tgt Ion:113 Resp: 83918
Ion Ratio Lower Upper
113 100
111 102.9 82.2 123.4
192 19.0 15.9 23.9

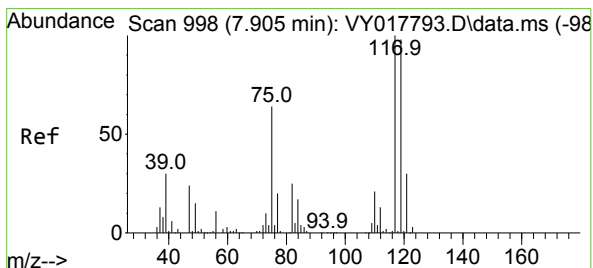
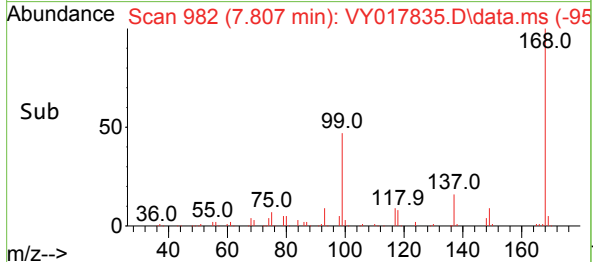
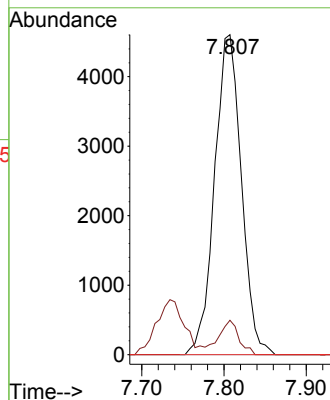
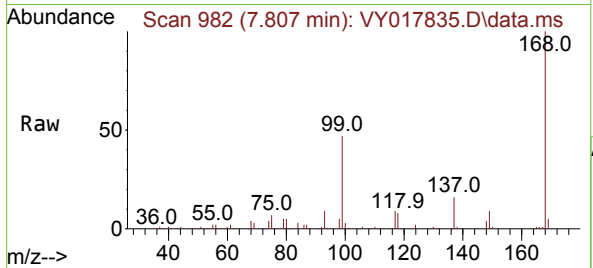




#36
 1,1-Dichloropropene
 Concen: 4.688 ug/l
 RT: 7.807 min Scan# 91
 Delta R.T. -0.110 min
 Lab File: VY017835.D
 Acq: 03 Apr 2024 14:59

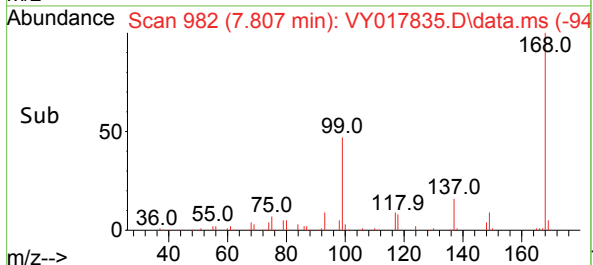
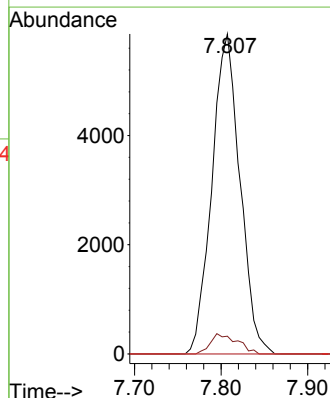
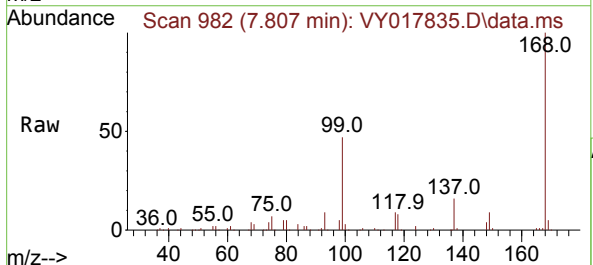
Instrument :
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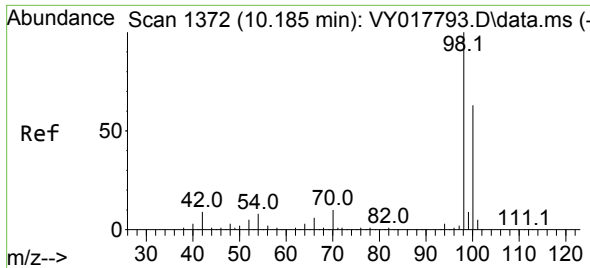
Tgt Ion: 75 Resp: 10414
 Ion Ratio Lower Upper
 75 100
 110 8.0 19.0 57.0#
 77 0.0 25.3 37.9#



#38
 Carbon Tetrachloride
 Concen: 5.719 ug/l
 RT: 7.807 min Scan# 982
 Delta R.T. -0.097 min
 Lab File: VY017835.D
 Acq: 03 Apr 2024 14:59

Tgt Ion: 117 Resp: 13190
 Ion Ratio Lower Upper
 117 100
 119 5.5 75.8 113.6#
 121 0.0 24.0 36.0#

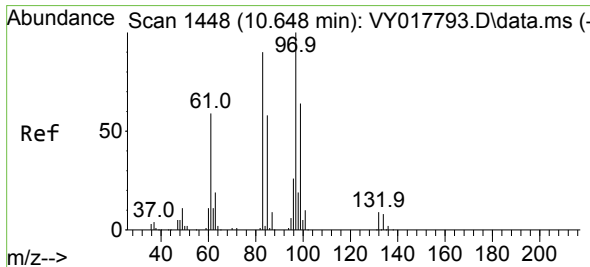
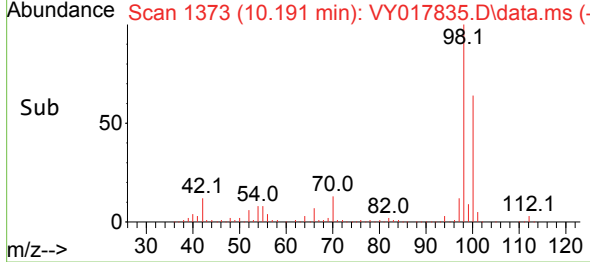
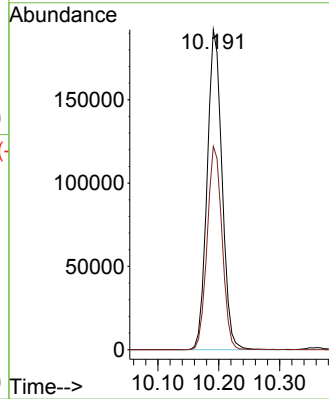
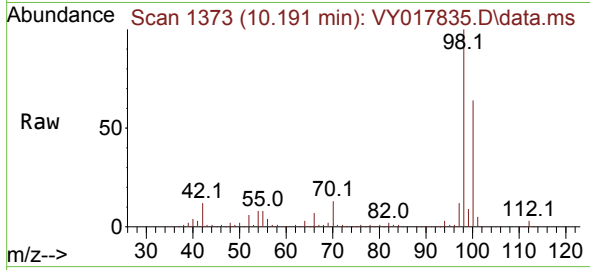




#50
Toluene-d8
Concen: 57.239 ug/l
RT: 10.191 min Scan# 11
Delta R.T. 0.006 min
Lab File: VY017835.D
Acq: 03 Apr 2024 14:59

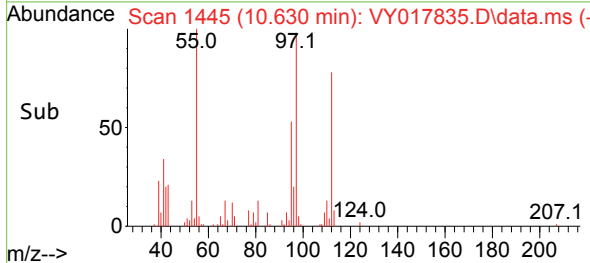
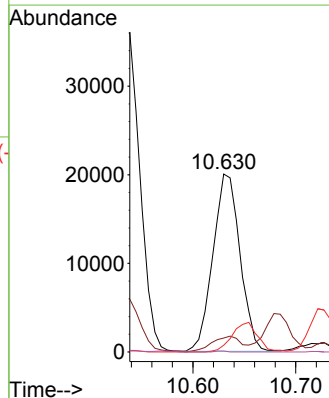
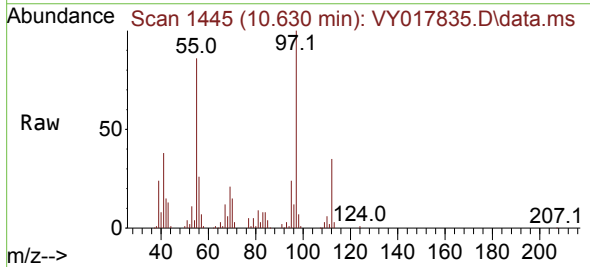
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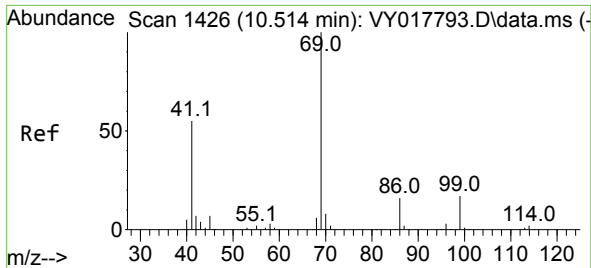
Tgt Ion: 98 Resp: 325538
Ion Ratio Lower Upper
98 100
100 63.4 52.0 78.0



#55
1,1,2-Trichloroethane
Concen: 30.422 ug/l
RT: 10.630 min Scan# 1445
Delta R.T. -0.018 min
Lab File: VY017835.D
Acq: 03 Apr 2024 14:59

Tgt Ion: 97 Resp: 36637
Ion Ratio Lower Upper
97 100
83 7.4 67.5 101.3#
85 3.8 42.9 64.3#
99 0.6 46.6 70.0#

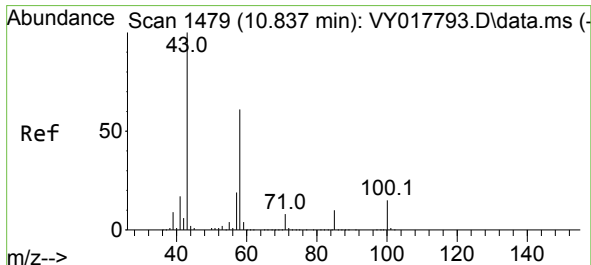
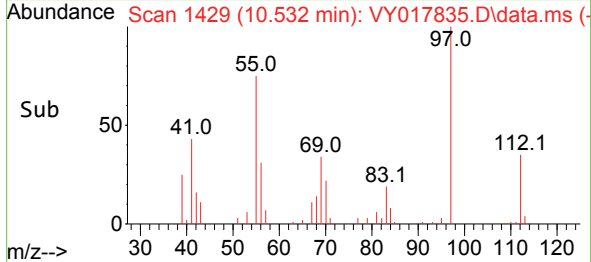
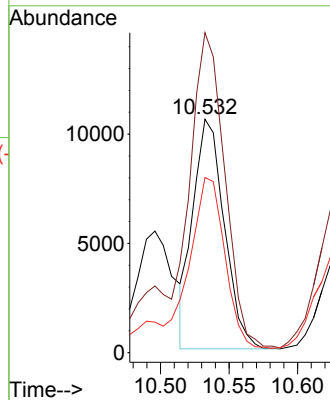
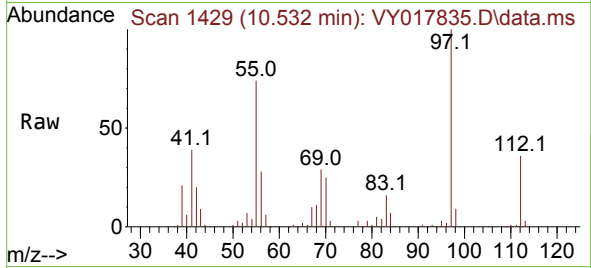




#56
Ethyl methacrylate
Concen: 12.888 ug/l
RT: 10.532 min Scan# 1429
Delta R.T. 0.018 min
Lab File: VY017835.D
Acq: 03 Apr 2024 14:59

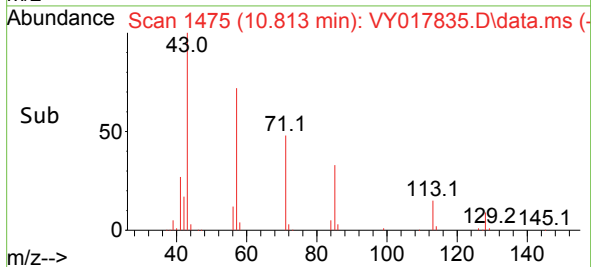
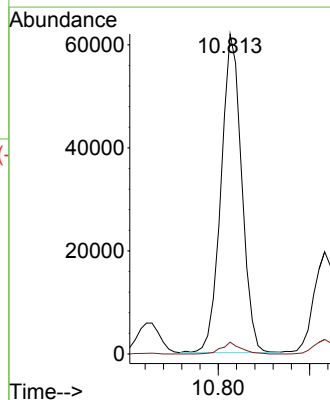
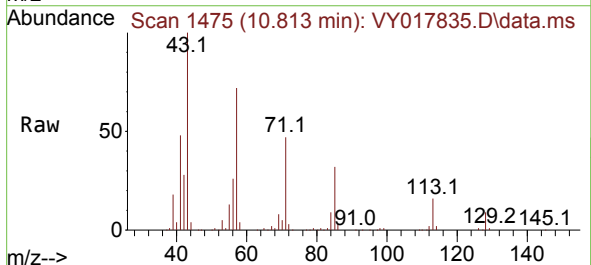
Instrument :
MSVOA_Y
ClientSampleId :
WC-C-GRAB

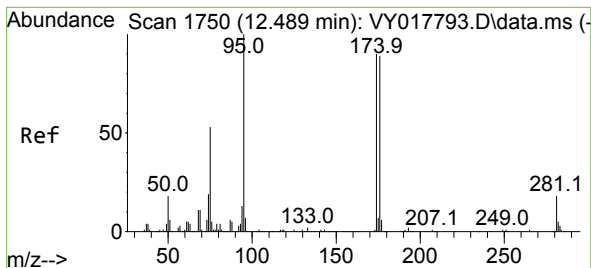
Tgt Ion: 69 Resp: 16675
Ion Ratio Lower Upper
69 100
41 150.6 42.3 63.5#
39 99.9 22.9 34.3#



#59
2-Hexanone
Concen: 167.770 ug/l
RT: 10.813 min Scan# 1475
Delta R.T. -0.024 min
Lab File: VY017835.D
Acq: 03 Apr 2024 14:59

Tgt Ion: 43 Resp: 97024
Ion Ratio Lower Upper
43 100
58 3.4 31.4 94.0#





#62

4-Bromofluorobenzene

Concen: 73.239 ug/l

RT: 12.489 min Scan# 1

Delta R.T. 0.000 min

Lab File: VY017835.D

Acq: 03 Apr 2024 14:59

Instrument :

MSVOA_Y

ClientSampleId :

WC-C-GRAB

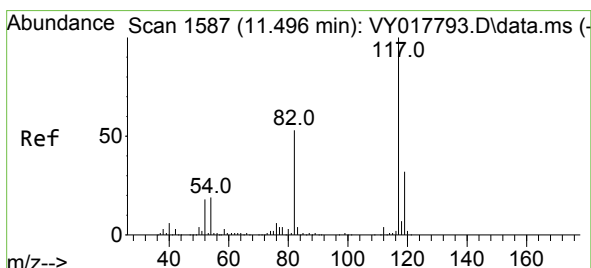
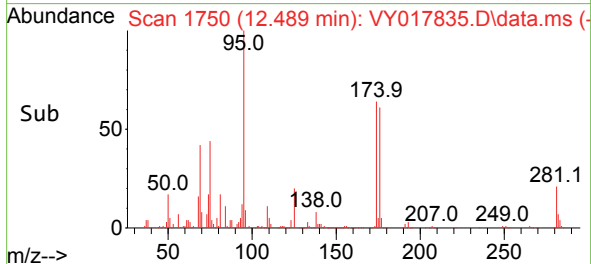
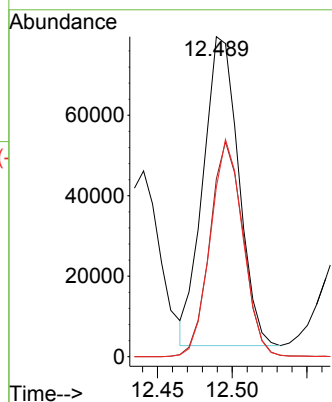
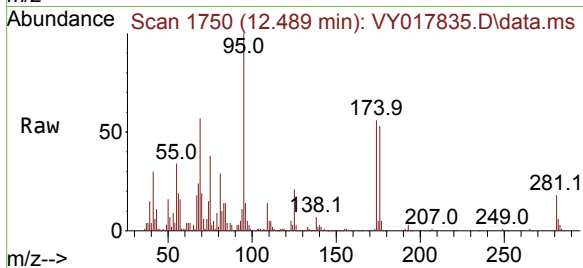
Tgt Ion: 95 Resp: 126729

Ion Ratio Lower Upper

95 100

174 65.5 0.0 175.6

176 64.5 0.0 171.4



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.502 min Scan# 1588

Delta R.T. 0.006 min

Lab File: VY017835.D

Acq: 03 Apr 2024 14:59

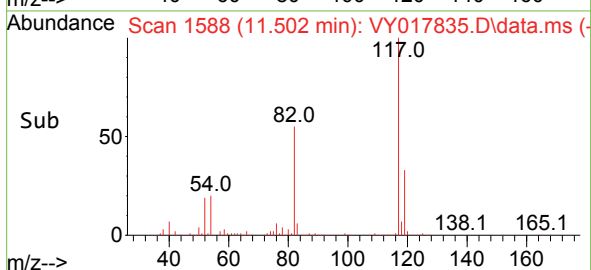
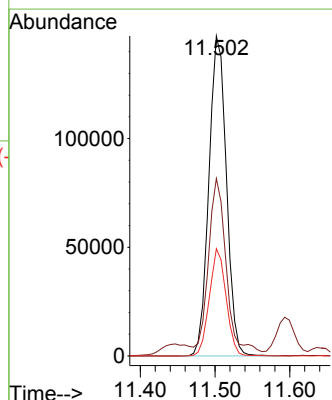
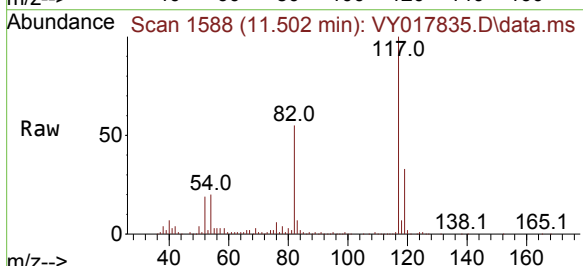
Tgt Ion: 117 Resp: 240328

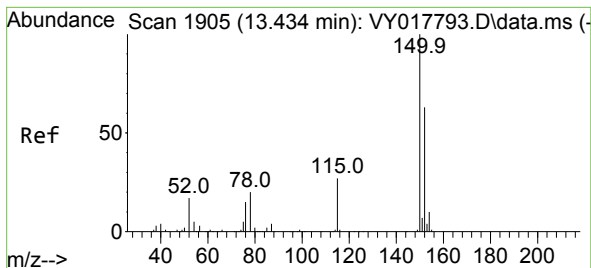
Ion Ratio Lower Upper

117 100

82 52.1 42.4 63.6

119 33.5 25.9 38.9





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.440 min Scan# 1905

Delta R.T. 0.006 min

Lab File: VY017835.D

Acq: 03 Apr 2024 14:59

Instrument :

MSVOA_Y

ClientSampleId :

WC-C-GRAB

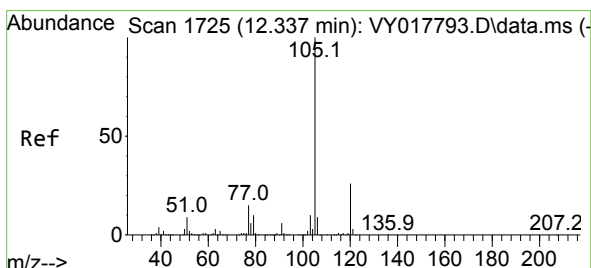
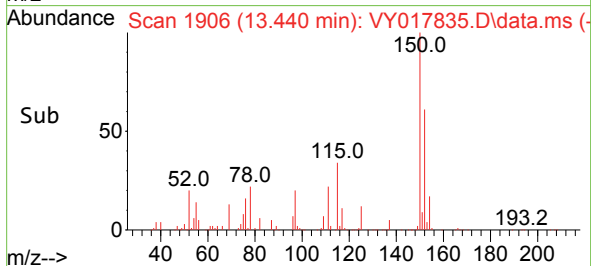
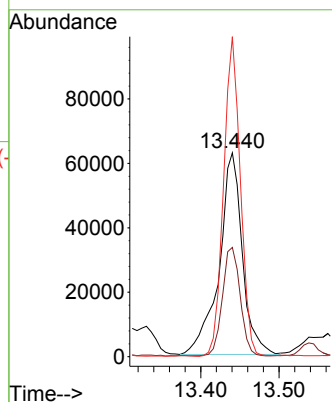
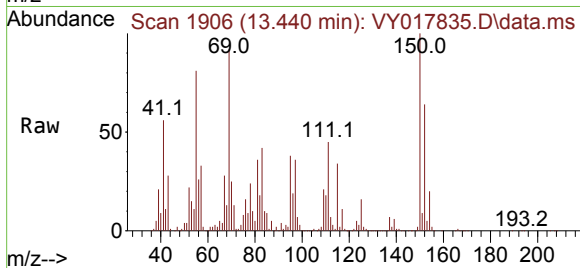
Tgt Ion:152 Resp: 128695

Ion Ratio Lower Upper

152 100

115 41.3 28.2 84.7

150 115.2 0.0 345.6



#73

Isopropylbenzene

Concen: 2.668 ug/l

RT: 12.343 min Scan# 1726

Delta R.T. 0.006 min

Lab File: VY017835.D

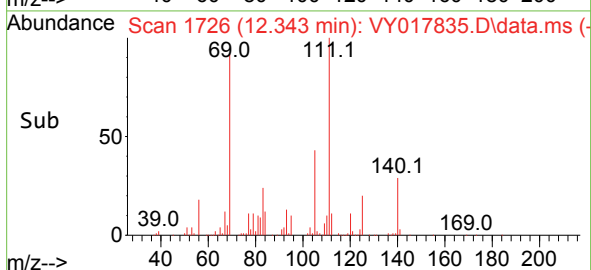
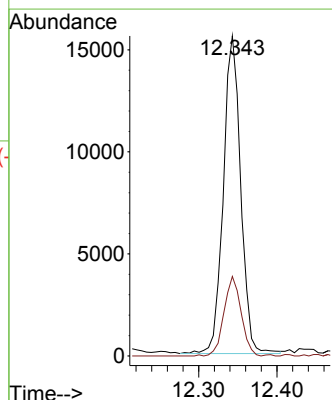
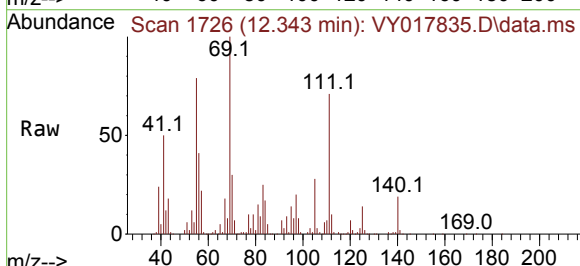
Acq: 03 Apr 2024 14:59

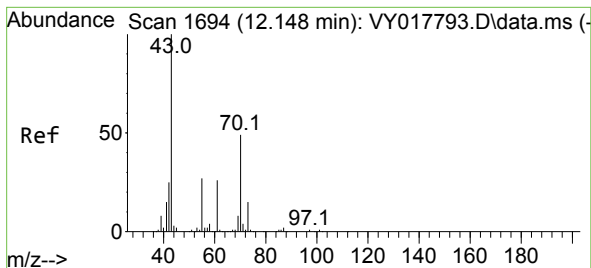
Tgt Ion:105 Resp: 24067

Ion Ratio Lower Upper

105 100

120 24.6 13.4 40.1





#74

N-amy1 acetate

Concen: 120.047 ug/l

RT: 12.136 min Scan# 1

Delta R.T. -0.012 min

Lab File: VY017835.D

Acq: 03 Apr 2024 14:59

Instrument :

MSVOA_Y

ClientSampleId :

WC-C-GRAB

Tgt Ion: 43 Resp: 260485

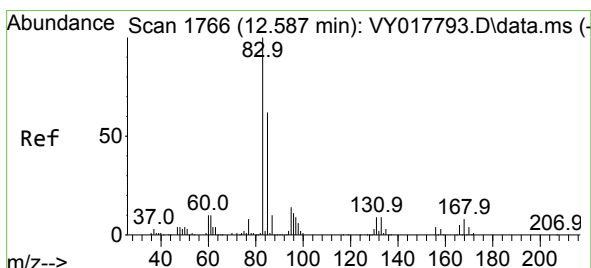
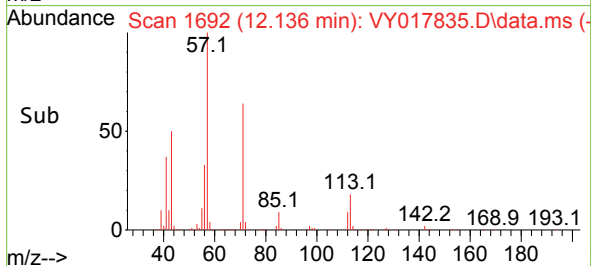
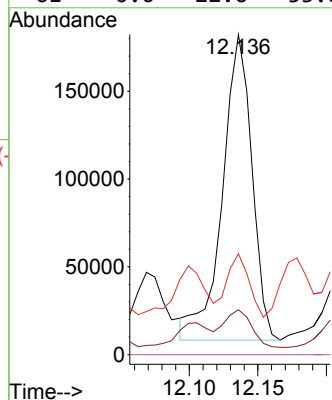
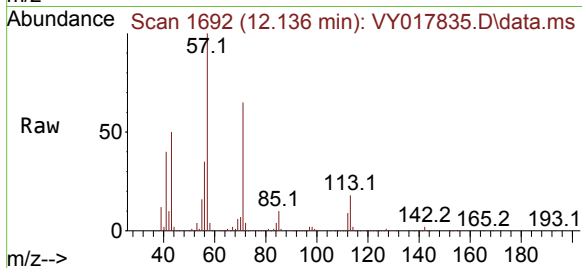
Ion Ratio Lower Upper

43 100

70 11.3 41.4 62.2#

55 15.3 23.3 34.9#

61 0.0 22.6 33.8#



#75

1,1,2,2-Tetrachloroethane

Concen: 24.116 ug/l

RT: 12.569 min Scan# 1763

Delta R.T. -0.018 min

Lab File: VY017835.D

Acq: 03 Apr 2024 14:59

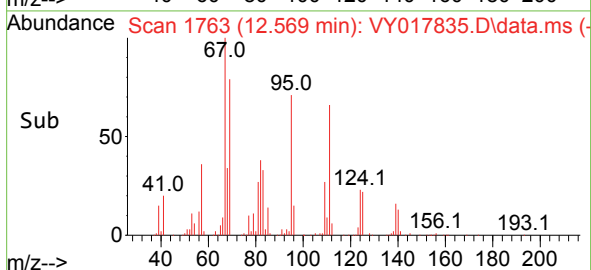
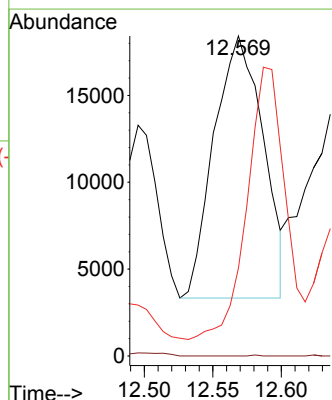
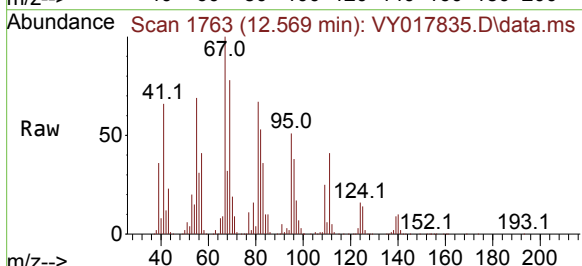
Tgt Ion: 83 Resp: 37623

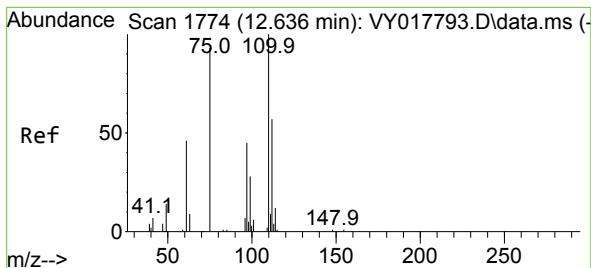
Ion Ratio Lower Upper

83 100

131 0.1 5.0 14.9#

85 80.1 32.0 96.0





#76

1,2,3-Trichloropropane

Concen: 43.873 ug/l

RT: 12.495 min Scan# 1751

Delta R.T. -0.140 min

Lab File: VY017835.D

Acq: 03 Apr 2024 14:59

Instrument :

MSVOA_Y

ClientSampleId :

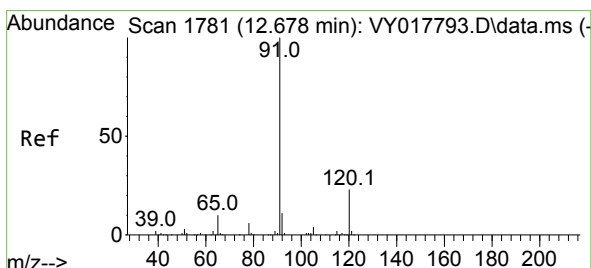
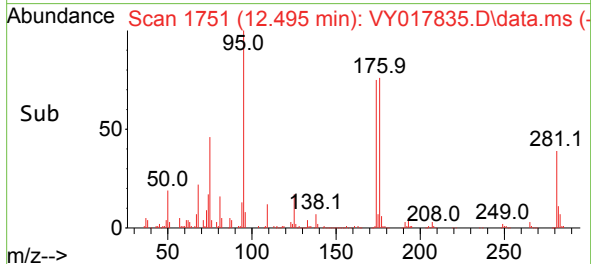
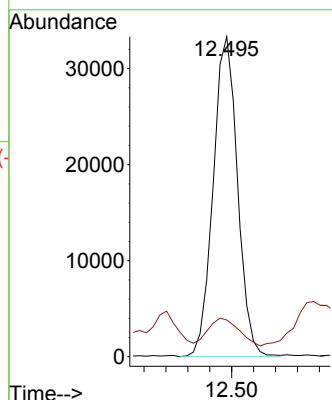
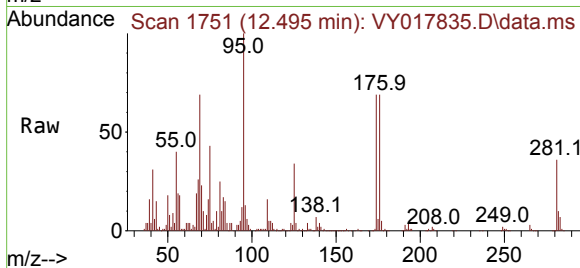
WC-C-GRAB

Tgt Ion: 75 Resp: 51452

Ion Ratio Lower Upper

75 100

77 10.8 0.0 0.0#



#78

n-propylbenzene

Concen: 1.492 ug/l

RT: 12.684 min Scan# 1782

Delta R.T. 0.006 min

Lab File: VY017835.D

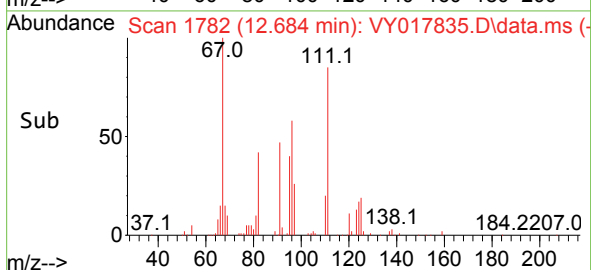
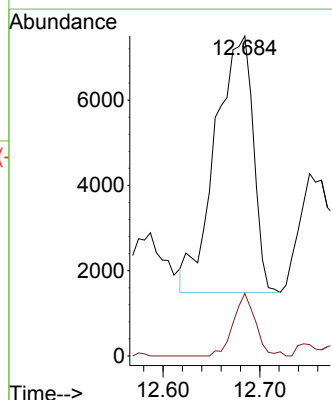
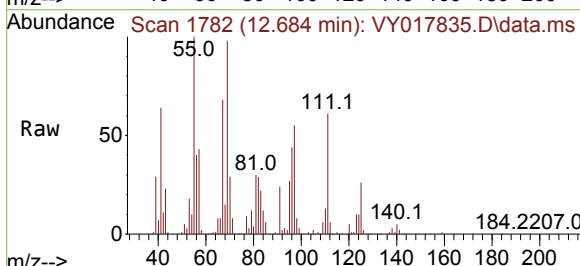
Acq: 03 Apr 2024 14:59

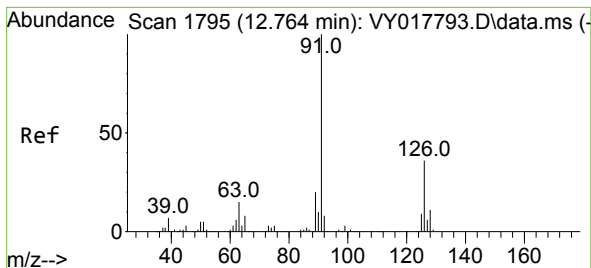
Tgt Ion: 91 Resp: 16415

Ion Ratio Lower Upper

91 100

120 14.2 11.5 34.4

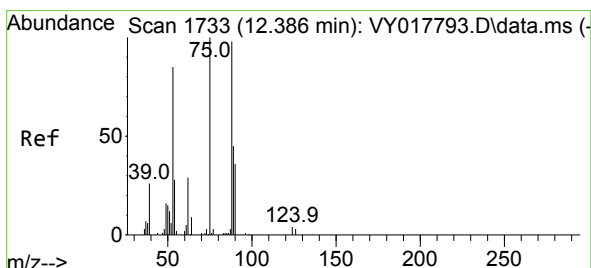
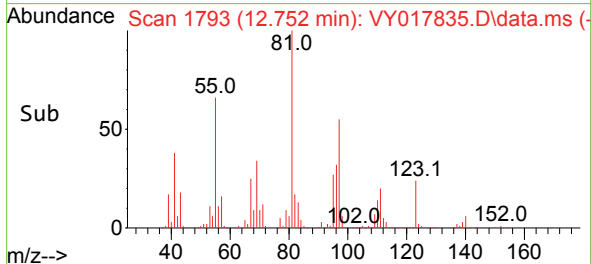
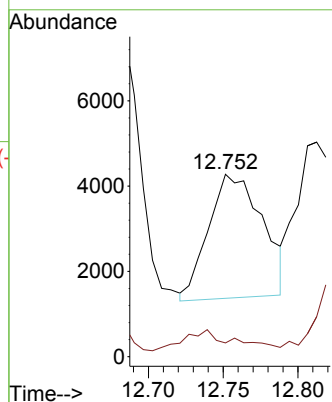
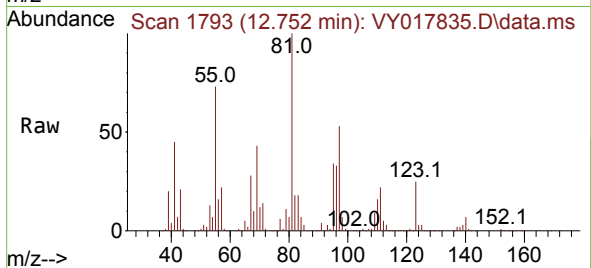




#79
2-Chlorotoluene
Concen: 1.210 ug/l
RT: 12.752 min Scan# 1751
Delta R.T. -0.012 min
Lab File: VY017835.D
Acq: 03 Apr 2024 14:59

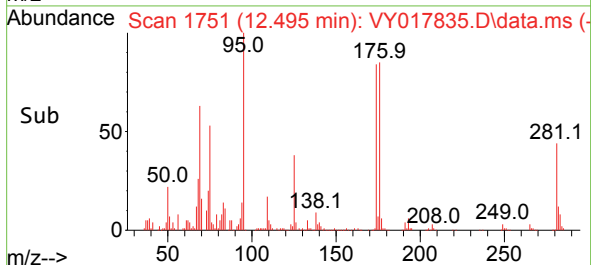
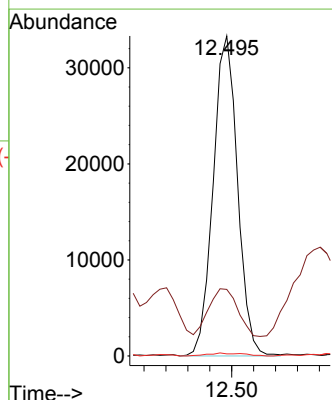
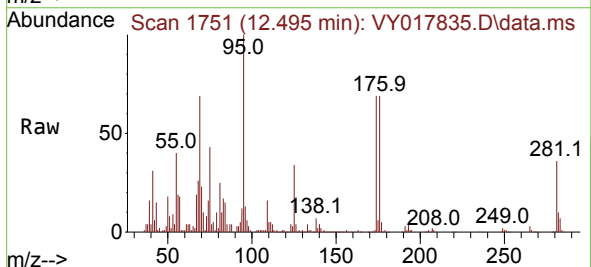
Instrument :
MSVOA_Y
ClientSampleId :
WC-C-GRAB

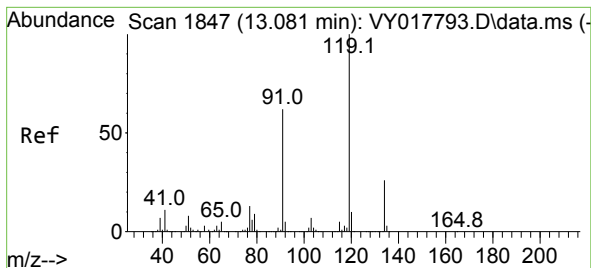
Tgt Ion: 91 Resp: 7296
Ion Ratio Lower Upper
91 100
126 10.3 17.8 53.5#



#81
trans-1,4-Dichloro-2-butene
Concen: 89.994 ug/l
RT: 12.495 min Scan# 1751
Delta R.T. 0.109 min
Lab File: VY017835.D
Acq: 03 Apr 2024 14:59

Tgt Ion: 75 Resp: 51452
Ion Ratio Lower Upper
75 100
53 17.5 66.8 100.2#
89 1.3 35.8 53.6#





#83

tert-Butylbenzene

Concen: 5.558 ug/l

RT: 13.087 min Scan# 1847

Delta R.T. 0.006 min

Lab File: VY017835.D

Acq: 03 Apr 2024 14:59

Instrument :

MSVOA_Y

ClientSampleId :

WC-C-GRAB

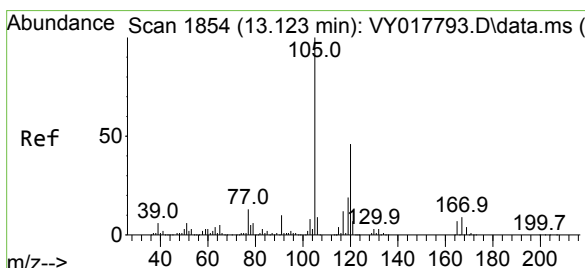
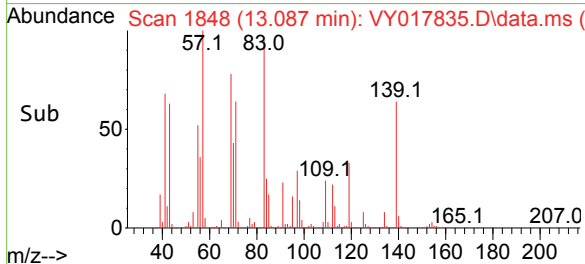
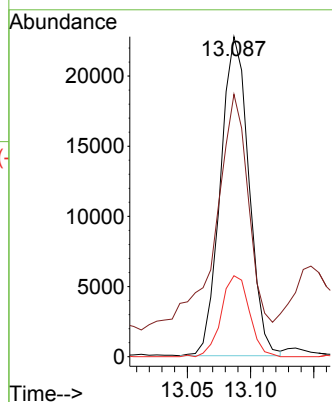
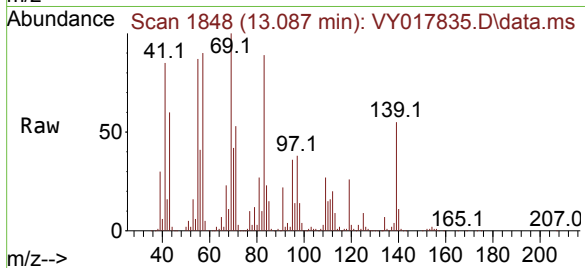
Tgt Ion:119 Resp: 35570

Ion Ratio Lower Upper

119 100

91 85.7 31.3 93.8

134 25.1 13.4 40.1



#84

1,2,4-Trimethylbenzene

Concen: 41.961 ug/l

RT: 13.264 min Scan# 1877

Delta R.T. 0.140 min

Lab File: VY017835.D

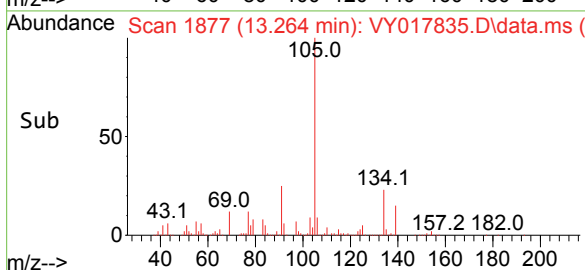
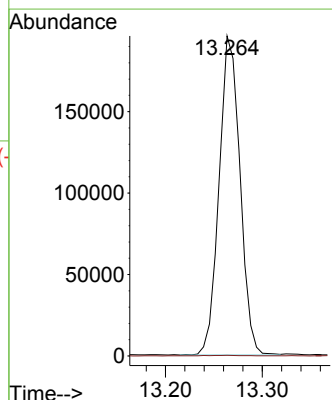
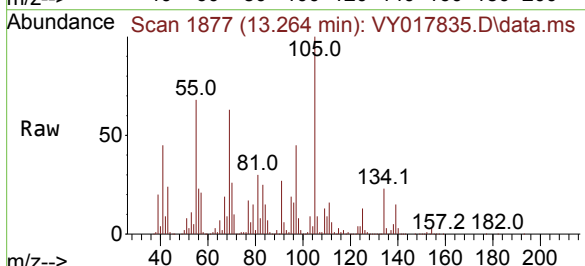
Acq: 03 Apr 2024 14:59

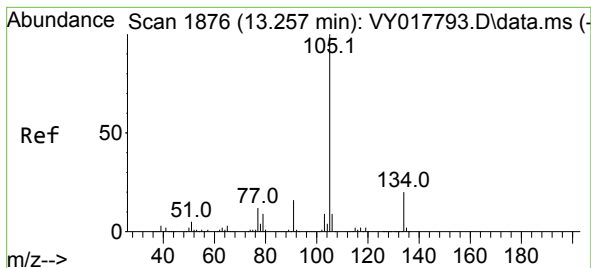
Tgt Ion:105 Resp: 294154

Ion Ratio Lower Upper

105 100

120 0.3 23.2 69.6#





#85

sec-Butylbenzene

Concen: 30.626 ug/l

RT: 13.264 min Scan# 1877

Delta R.T. 0.006 min

Lab File: VY017835.D

Acq: 03 Apr 2024 14:59

Instrument :

MSVOA_Y

ClientSampleId :

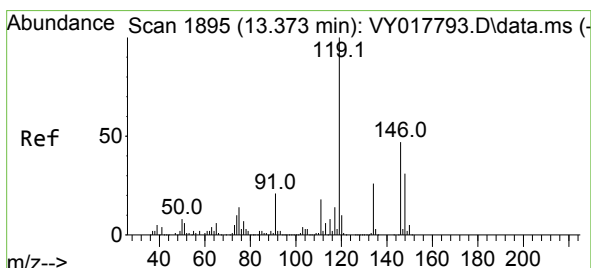
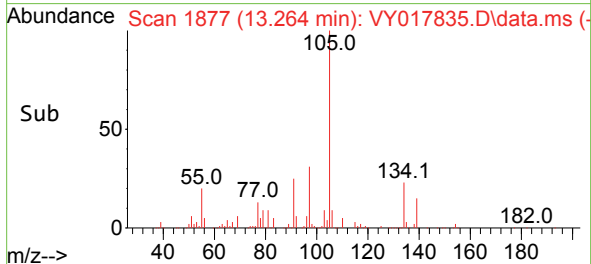
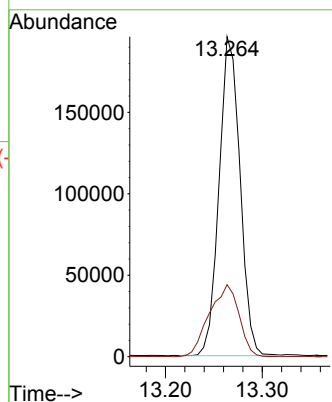
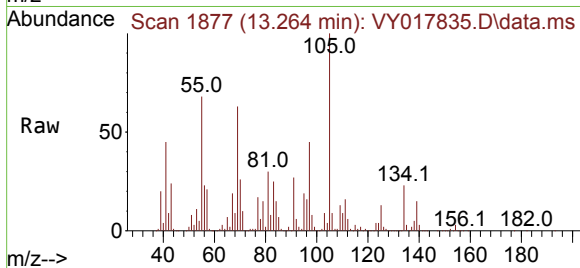
WC-C-GRAB

Tgt Ion:105 Resp: 294154

Ion Ratio Lower Upper

105 100

134 31.9 10.1 30.1#



#86

p-Isopropyltoluene

Concen: 8.668 ug/l

RT: 13.538 min Scan# 1922

Delta R.T. 0.165 min

Lab File: VY017835.D

Acq: 03 Apr 2024 14:59

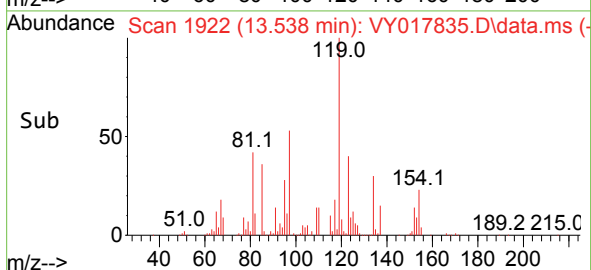
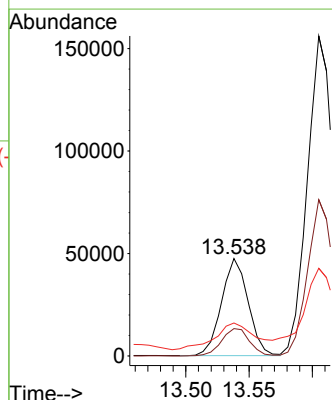
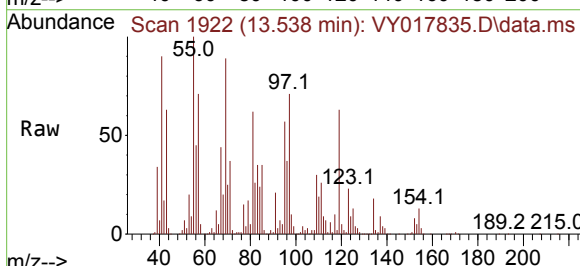
Tgt Ion:119 Resp: 69591

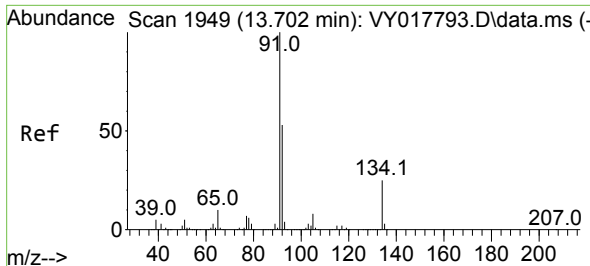
Ion Ratio Lower Upper

119 100

134 29.6 13.1 39.3

91 41.2 10.7 32.1#

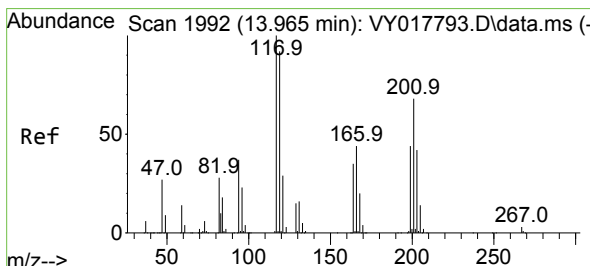
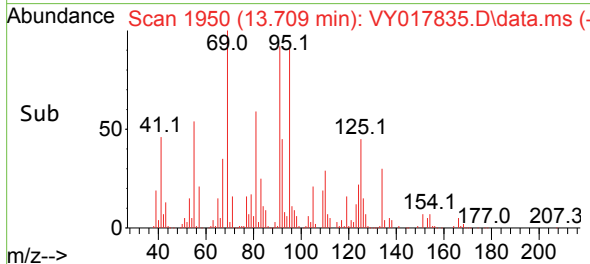
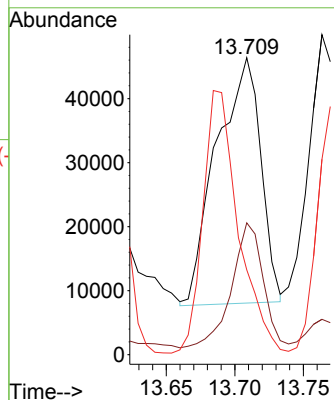
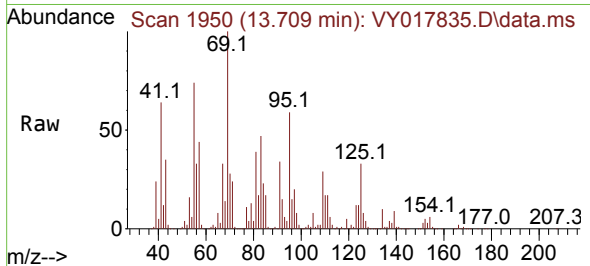




#89
n-Butylbenzene
Concen: 11.657 ug/l
RT: 13.709 min Scan# 1950
Delta R.T. 0.006 min
Lab File: VY017835.D
Acq: 03 Apr 2024 14:59

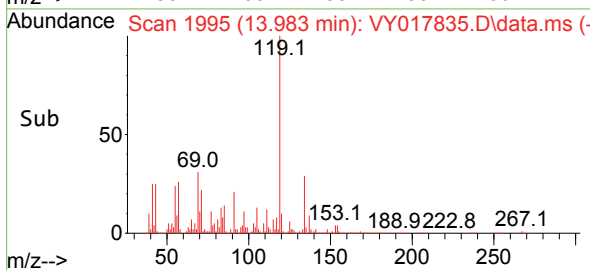
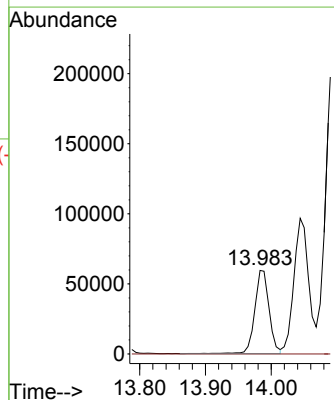
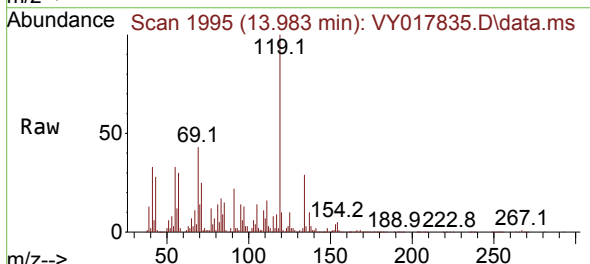
Instrument :
MSVOA_Y
ClientSampleId :
WC-C-GRAB

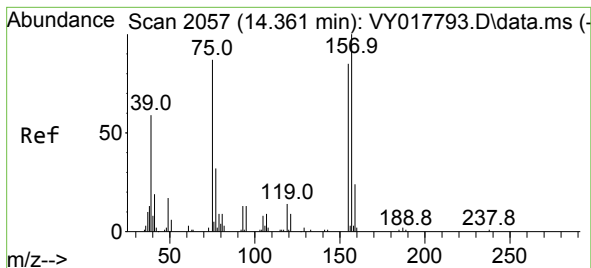
Tgt Ion: 91 Resp: 86103
Ion Ratio Lower Upper
91 100
92 38.3 26.6 79.7
134 0.0 12.9 38.7#



#90
Hexachloroethane
Concen: 55.752 ug/l
RT: 13.983 min Scan# 1995
Delta R.T. 0.018 min
Lab File: VY017835.D
Acq: 03 Apr 2024 14:59

Tgt Ion: 117 Resp: 89002
Ion Ratio Lower Upper
117 100
201 0.0 37.4 112.2#

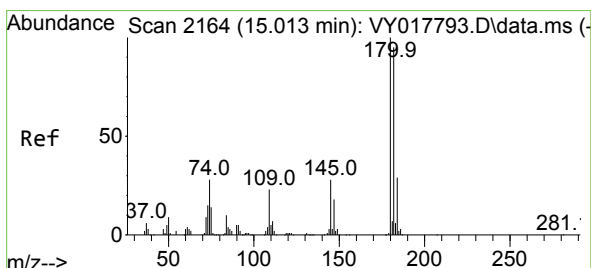
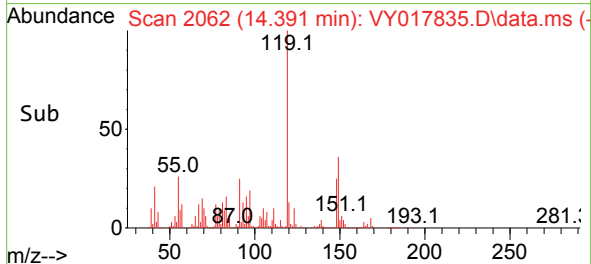
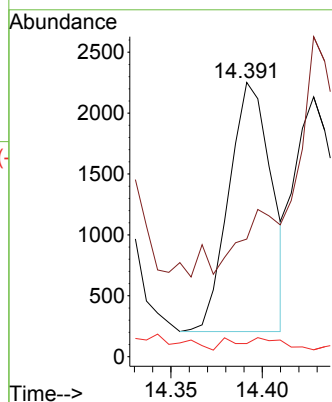
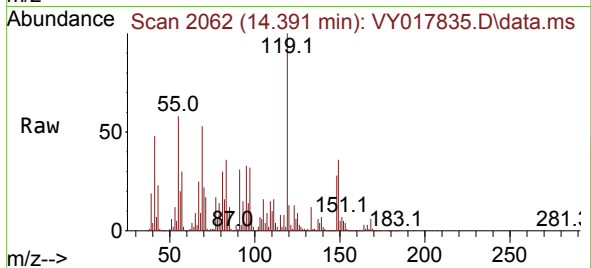




#92
 1,2-Dibromo-3-Chloropropane
 Concen: 15.767 ug/l
 RT: 14.391 min Scan# 2057
 Delta R.T. 0.031 min
 Lab File: VY017835.D
 Acq: 03 Apr 2024 14:59

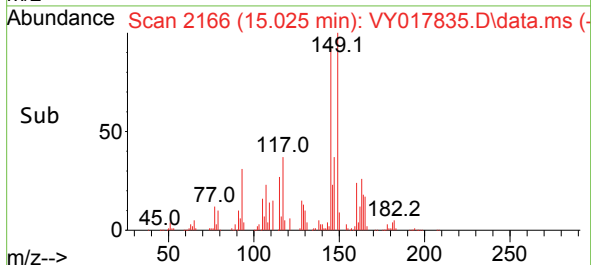
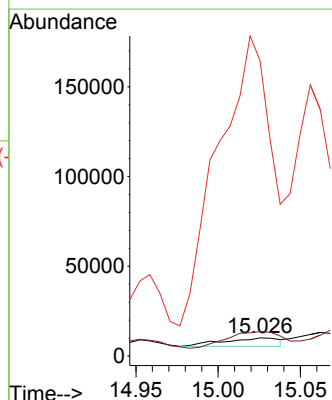
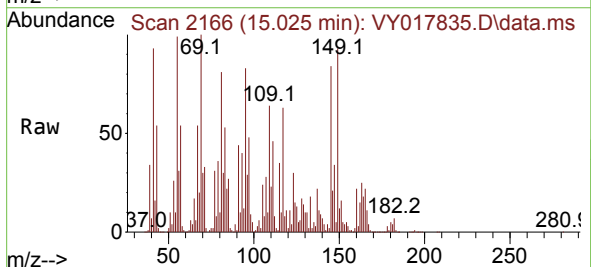
Instrument :
 MSVOA_Y
 ClientSampleId :
 WC-C-GRAB

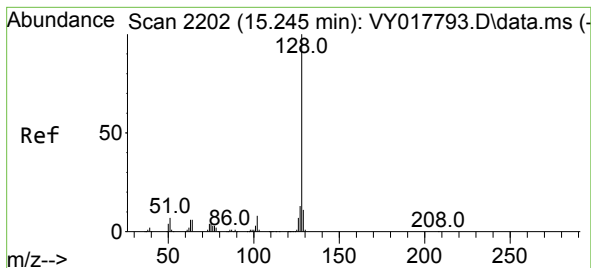
Tgt Ion: 75 Resp: 3324
 Ion Ratio Lower Upper
 75 100
 155 0.0 48.6 145.8#
 157 6.2 62.7 188.2#



#93
 1,2,4-Trichlorobenzene
 Concen: 5.761 ug/l
 RT: 15.025 min Scan# 2166
 Delta R.T. 0.012 min
 Lab File: VY017835.D
 Acq: 03 Apr 2024 14:59

Tgt Ion: 180 Resp: 11149
 Ion Ratio Lower Upper
 180 100
 182 193.5 47.9 143.8#
 145 3750.9 14.2 42.6#





#95

Naphthalene

Concen: 17.625 ug/l

RT: 15.221 min Scan# 21

Delta R.T. -0.024 min

Lab File: VY017835.D

Acq: 03 Apr 2024 14:59

Instrument :

MSVOA_Y

ClientSampleId :

WC-C-GRAB

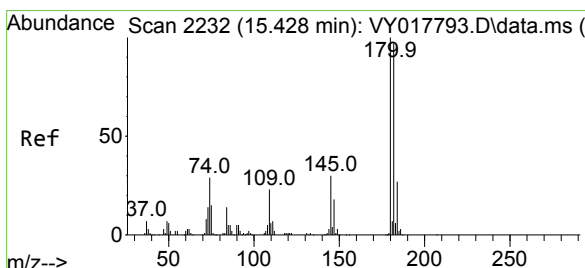
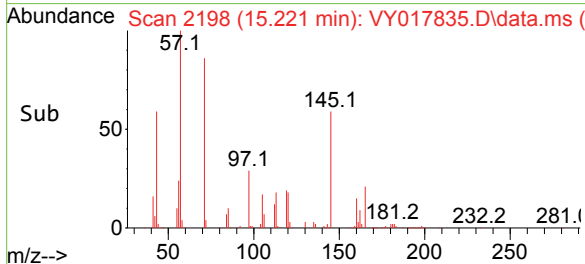
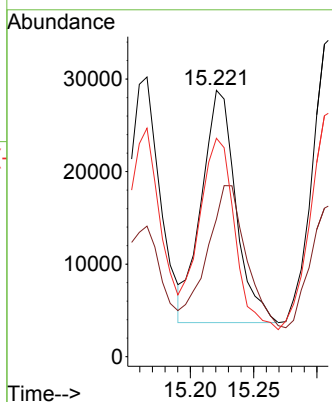
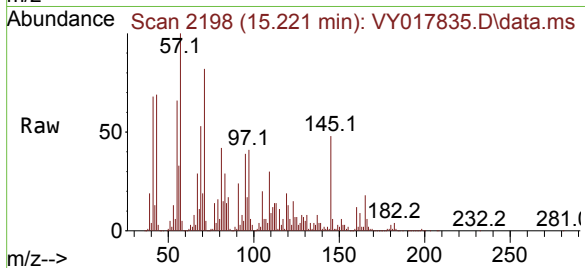
Tgt Ion:128 Resp: 47337

Ion Ratio Lower Upper

128 100

127 69.6 10.6 16.0#

129 85.5 8.6 13.0#



#96

1,2,3-Trichlorobenzene

Concen: 18.839 ug/l

RT: 15.403 min Scan# 2228

Delta R.T. -0.024 min

Lab File: VY017835.D

Acq: 03 Apr 2024 14:59

Tgt Ion:180 Resp: 30794

Ion Ratio Lower Upper

180 100

182 16.4 47.6 142.9#

145 583.3 15.4 46.1#

