

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051623\
 Data File : VY013755.D
 Acq On : 16 May 2023 13:31
 Operator : KP/MD
 Sample : 02747-03
 Misc : 5.58g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 SB-03-5-7-20230510

Quant Time: May 17 07:46:10 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042423S.M
 Quant Title : SW846 8260
 QLast Update : Tue Apr 25 02:39:58 2023
 Response via : Initial Calibration

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

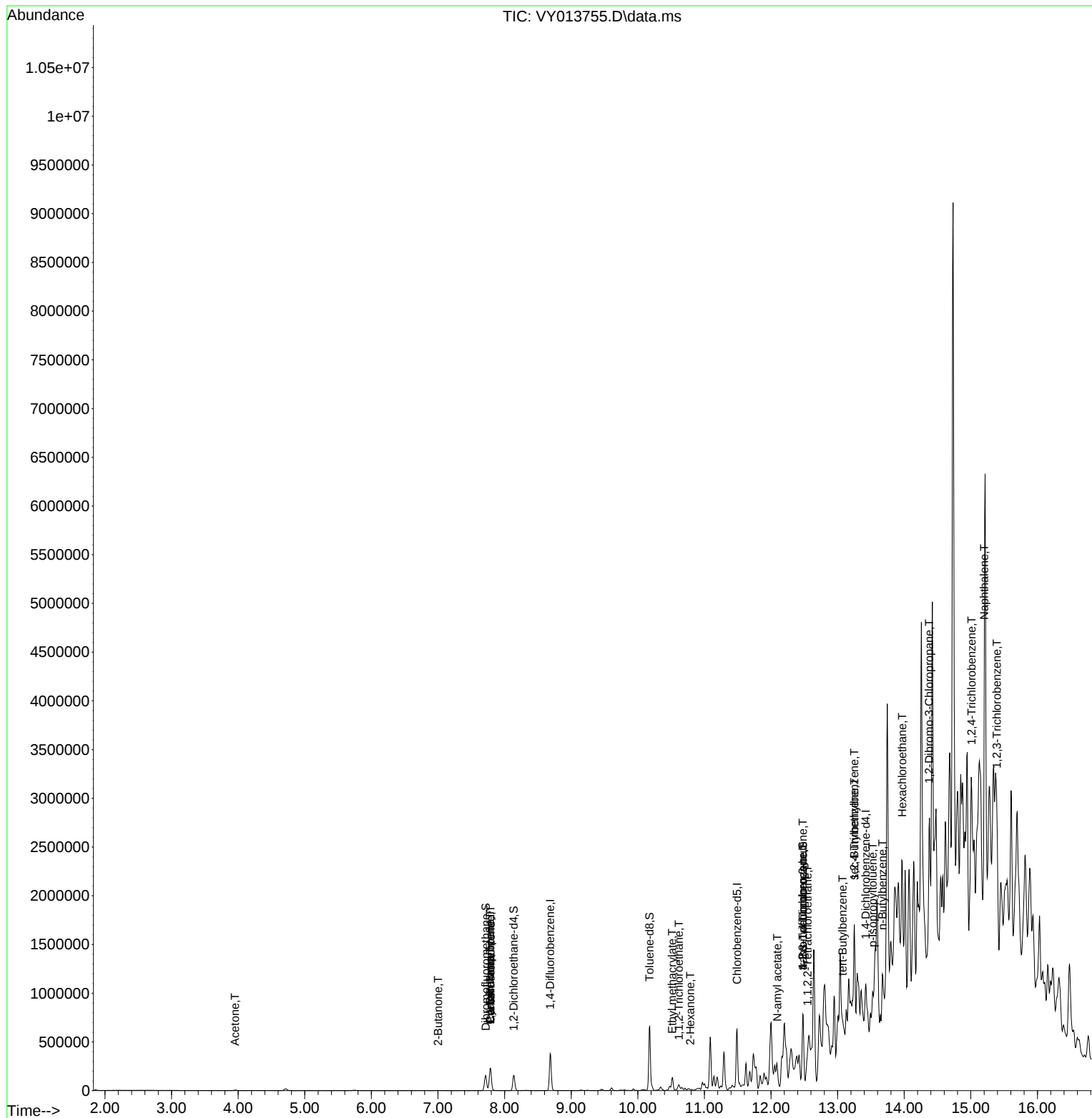
Internal Standards						
1) Pentafluorobenzene	7.789	168	176211	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.685	114	309778	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.489	117	310207	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.422	152	148881	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.136	65	125710	65.079	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 130.160%	
35) Dibromofluoromethane	7.716	113	106180	54.497	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 109.000%	
50) Toluene-d8	10.179	98	392990	56.699	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	= 113.400%	
62) 4-Bromofluorobenzene	12.477	95	166324	71.180	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	= 142.360%	
Target Compounds						
					Qvalue	
13) Acrolein	3.735	56	82	Below Cal	#	16
16) Acetone	3.954	43	11383	14.964	ug/l #	80
20) Methylene Chloride	4.716	84	12708	Below Cal	#	88
25) 2-Butanone	7.002	43	1850	1.918	ug/l #	80
31) Cyclohexane	7.783	56	4113	1.189	ug/l #	35
36) 1,1-Dichloropropene	7.783	75	13934	4.309	ug/l #	49
38) Carbon Tetrachloride	7.789	117	17936	5.292	ug/l #	16
55) 1,1,2-Trichloroethane	10.618	97	17418	9.230	ug/l #	22
56) Ethyl methacrylate	10.514	69	10836	4.139	ug/l #	1
59) 2-Hexanone	10.788	43	5204	3.128	ug/l #	33
74) N-amyl acetate	12.093	43	18793	4.690	ug/l #	1
75) 1,1,2,2-Tetrachloroethane	12.550	83	28840	10.478	ug/l #	26
76) 1,2,3-Trichloropropane	12.477	75	74923	37.315	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.477	75	74923	76.330	ug/l #	20
83) tert-Butylbenzene	13.075	119	34956	4.390	ug/l	76
84) 1,2,4-Trimethylbenzene	13.251	105	517149	57.873	ug/l #	32
85) sec-Butylbenzene	13.251	105	517149	43.273	ug/l	92
86) p-Isopropyltoluene	13.526	119	122504	12.747	ug/l	91
89) n-Butylbenzene	13.672	91	52238	5.569	ug/l #	1
90) Hexachloroethane	13.971	117	13796	6.821	ug/l #	8
92) 1,2-Dibromo-3-Chloropr...	14.373	75	4662	9.590	ug/l #	1
93) 1,2,4-Trichlorobenzene	15.013	180	4105	1.467	ug/l #	1
95) Naphthalene	15.202	128	56311	9.273	ug/l #	1
96) 1,2,3-Trichlorobenzene	15.391	180	15550	6.234	ug/l #	1

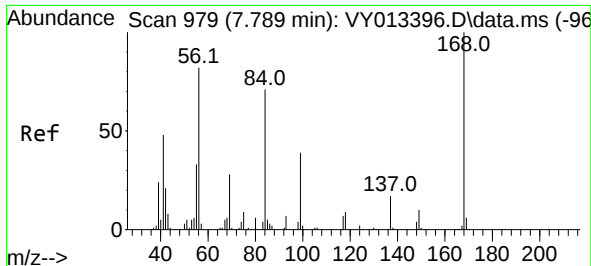
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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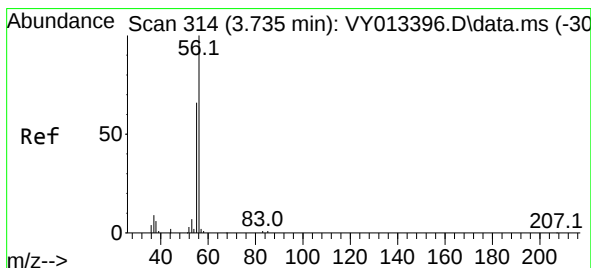
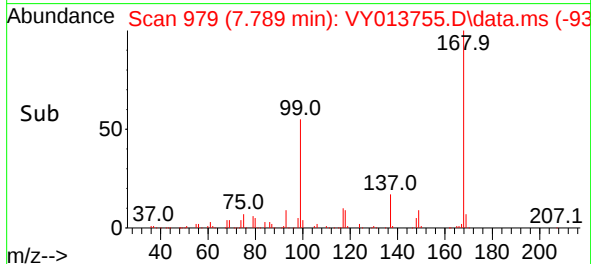
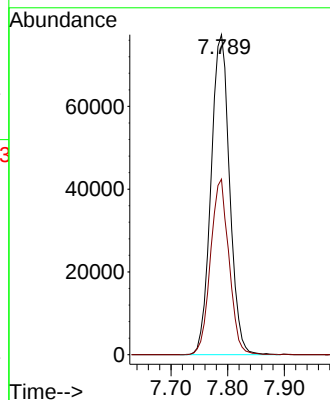
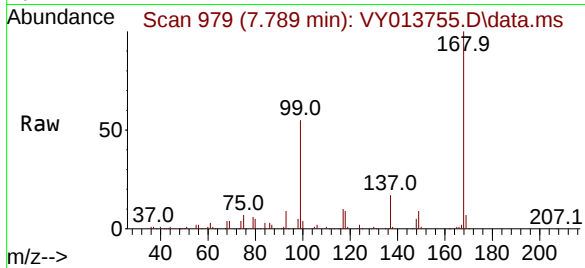




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.789 min Scan# 91
Delta R.T. -0.000 min
Lab File: VY013755.D
Acq: 16 May 2023 13:31

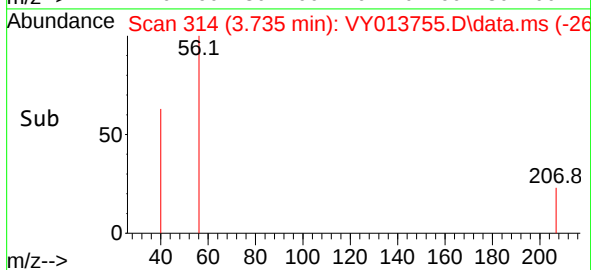
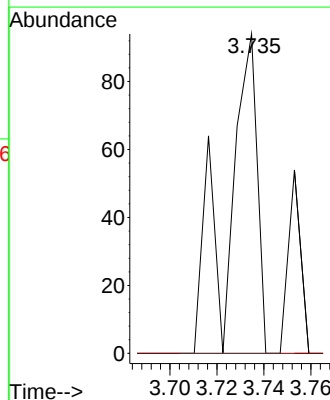
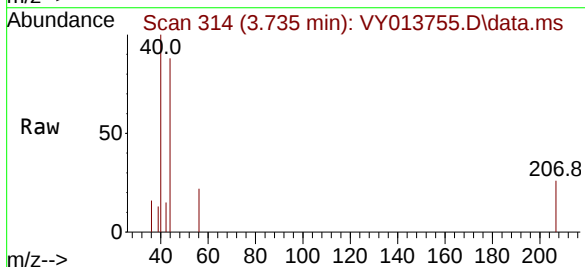
Instrument :
MSVOA_Y
ClientSampleId :
SB-03-5-7-20230510

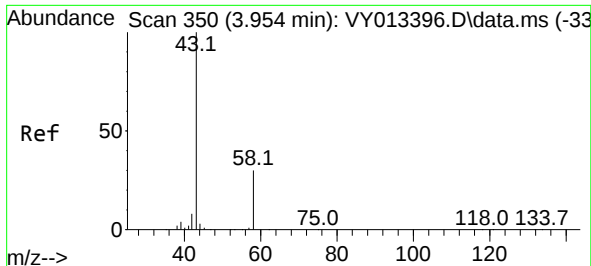
Tgt Ion:168 Resp: 176211
Ion Ratio Lower Upper
168 100
99 54.8 41.8 62.6



#13
Acrolein
Concen: Below Cal
RT: 3.735 min Scan# 314
Delta R.T. 0.006 min
Lab File: VY013755.D
Acq: 16 May 2023 13:31

Tgt Ion: 56 Resp: 82
Ion Ratio Lower Upper
56 100
55 0.0 54.1 81.1#





#16

Acetone

Concen: 14.964 ug/l

RT: 3.954 min Scan# 3

Delta R.T. 0.006 min

Lab File: VY013755.D

Acq: 16 May 2023 13:31

Instrument :

MSVOA_Y

ClientSampleId :

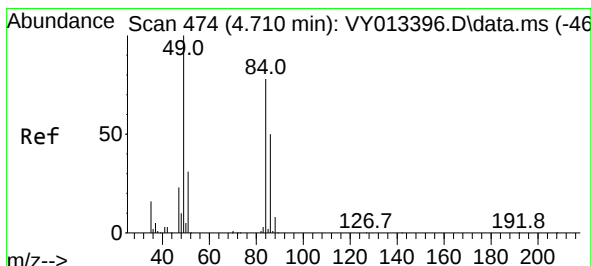
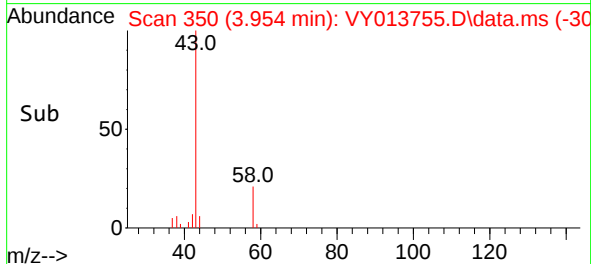
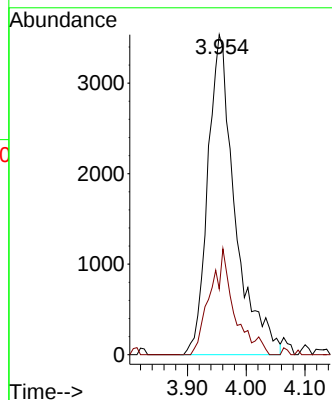
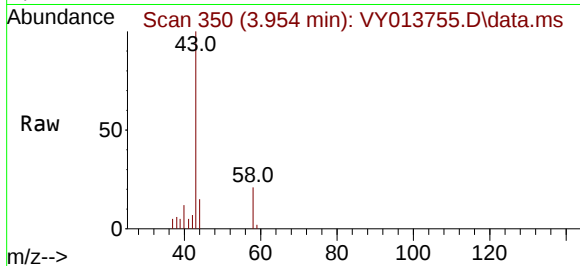
SB-03-5-7-20230510

Tgt Ion: 43 Resp: 11383

Ion Ratio Lower Upper

43 100

58 20.5 25.4 38.0#



#20

Methylene Chloride

Concen: Below Cal

RT: 4.716 min Scan# 475

Delta R.T. 0.000 min

Lab File: VY013755.D

Acq: 16 May 2023 13:31

Tgt Ion: 84 Resp: 12708

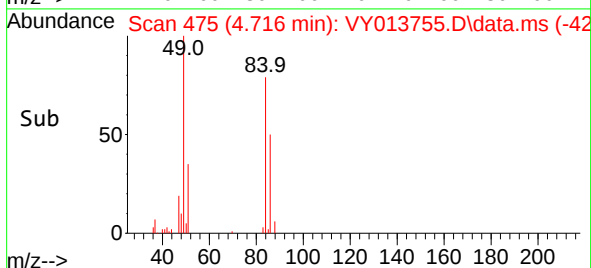
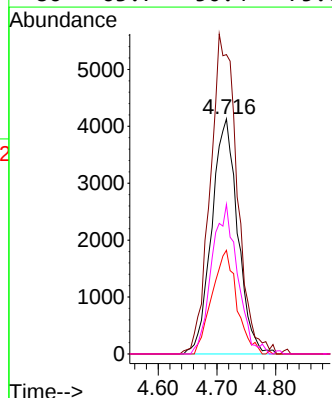
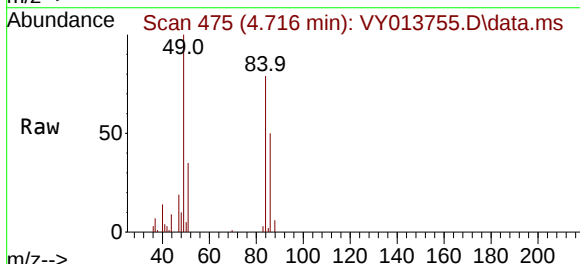
Ion Ratio Lower Upper

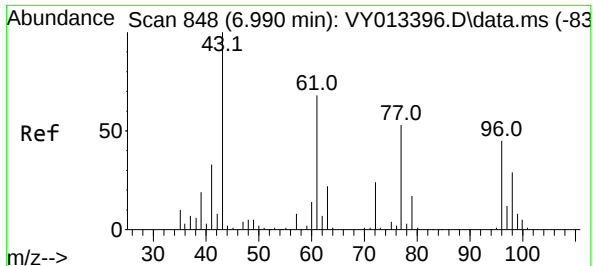
84 100

49 127.4 88.0 132.0

51 44.1 27.4 41.0#

86 63.7 50.4 75.6





#25

2-Butanone

Concen: 1.918 ug/l

RT: 7.002 min Scan# 848

Delta R.T. 0.018 min

Lab File: VY013755.D

Acq: 16 May 2023 13:31

Instrument :

MSVOA_Y

ClientSampleId :

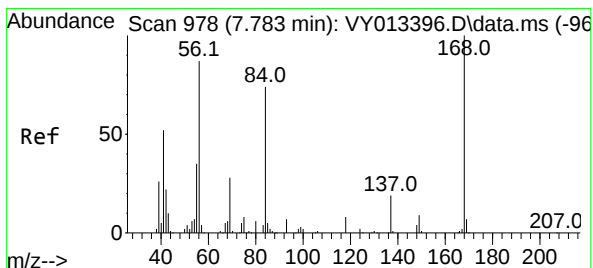
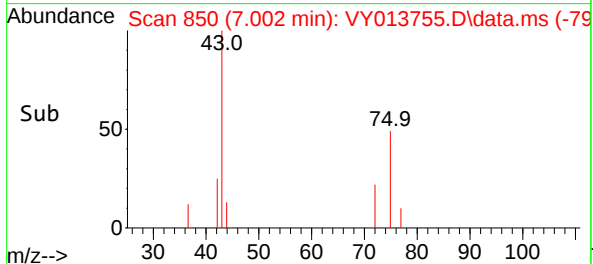
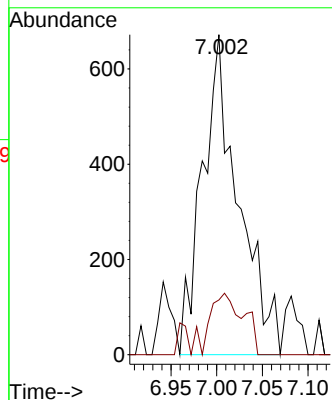
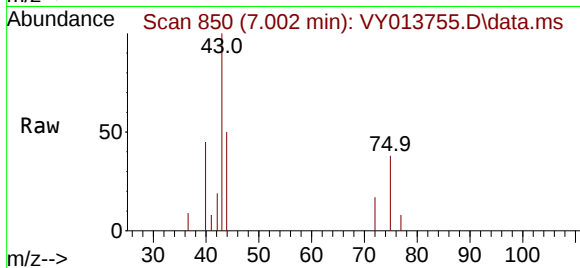
SB-03-5-7-20230510

Tgt Ion: 43 Resp: 1850

Ion Ratio Lower Upper

43 100

72 17.1 21.9 32.9#



#31

Cyclohexane

Concen: 1.189 ug/l

RT: 7.783 min Scan# 978

Delta R.T. -0.000 min

Lab File: VY013755.D

Acq: 16 May 2023 13:31

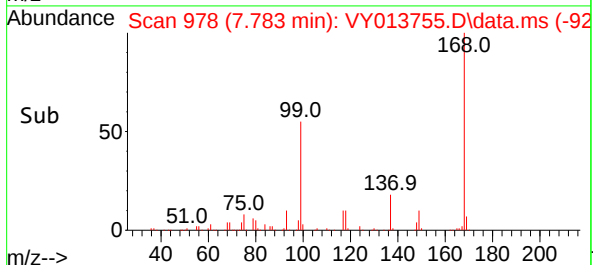
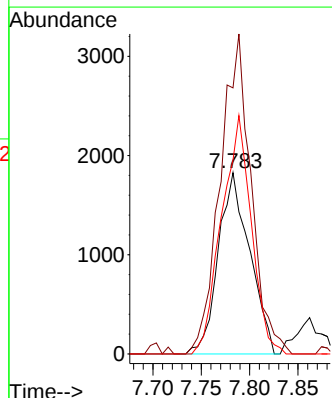
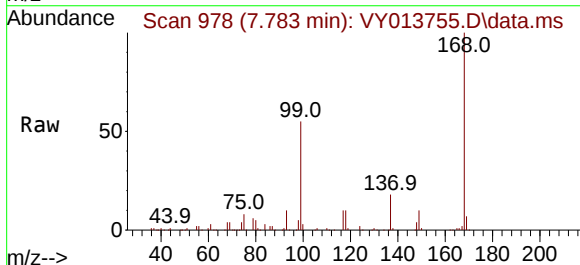
Tgt Ion: 56 Resp: 4113

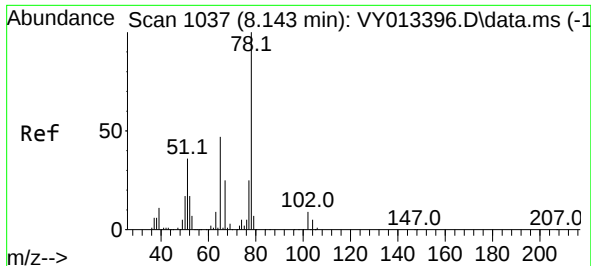
Ion Ratio Lower Upper

56 100

69 146.7 29.2 43.8#

84 106.9 73.0 109.6





#33

1,2-Dichloroethane-d4

Concen: 65.079 ug/l

RT: 8.136 min Scan# 1

Delta R.T. 0.000 min

Lab File: VY013755.D

Acq: 16 May 2023 13:31

Instrument :

MSVOA_Y

ClientSampleId :

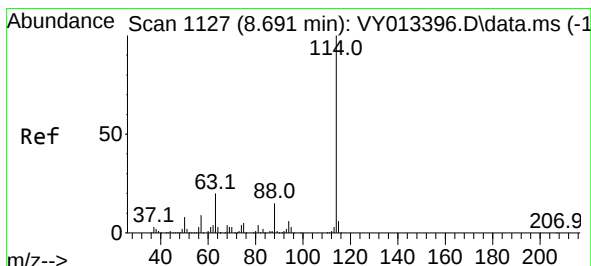
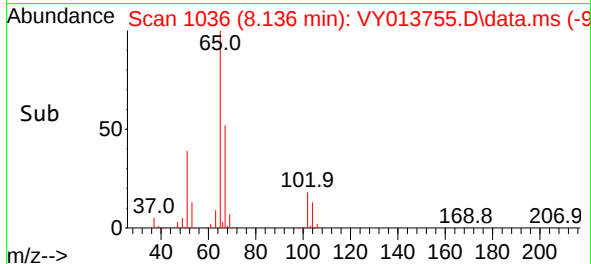
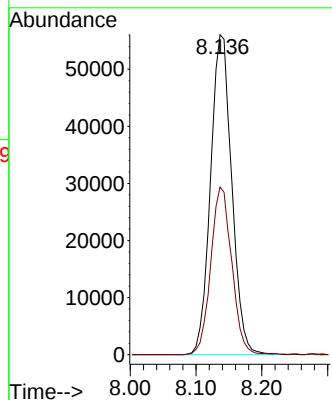
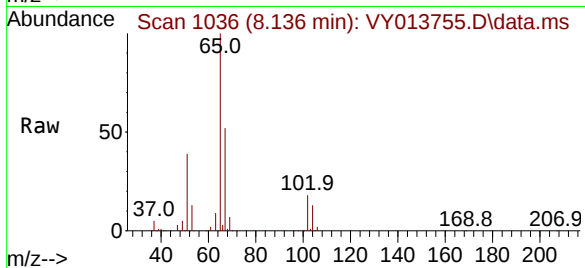
SB-03-5-7-20230510

Tgt Ion: 65 Resp: 125710

Ion Ratio Lower Upper

65 100

67 52.0 0.0 103.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.685 min Scan# 1126

Delta R.T. -0.006 min

Lab File: VY013755.D

Acq: 16 May 2023 13:31

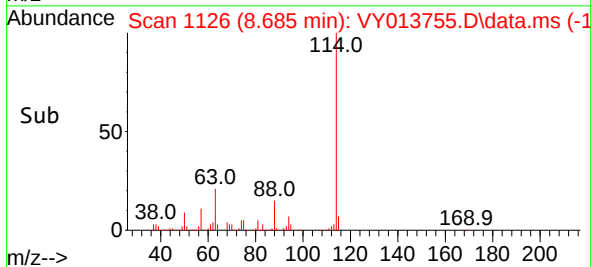
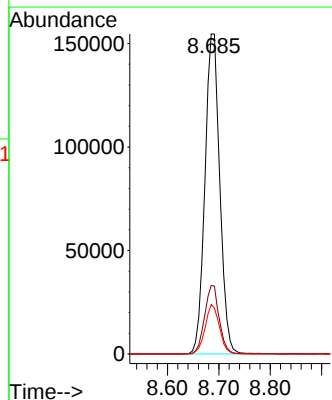
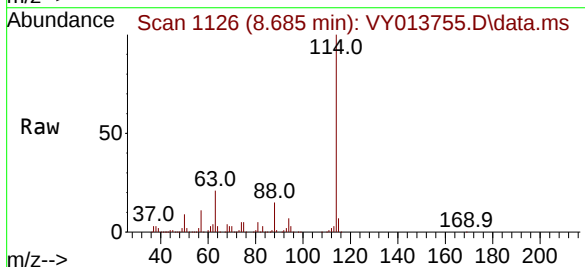
Tgt Ion: 114 Resp: 309778

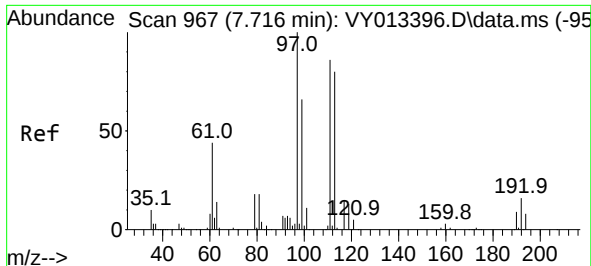
Ion Ratio Lower Upper

114 100

63 21.4 0.0 36.6

88 15.5 0.0 28.8

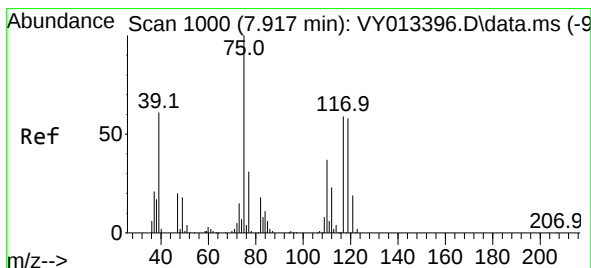
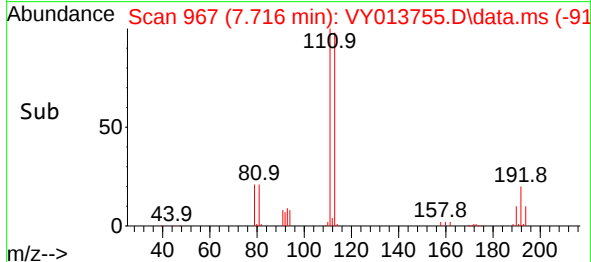
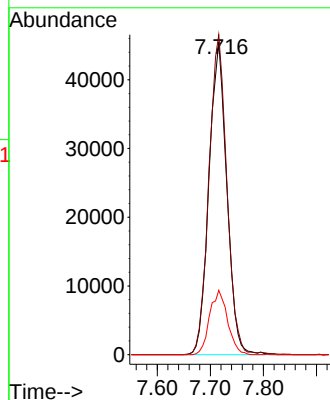
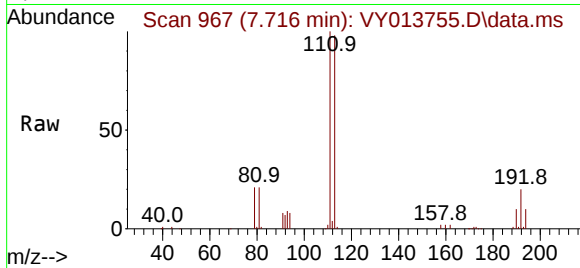




#35
Dibromofluoromethane
Concen: 54.497 ug/l
RT: 7.716 min Scan# 910
Delta R.T. -0.000 min
Lab File: VY013755.D
Acq: 16 May 2023 13:31

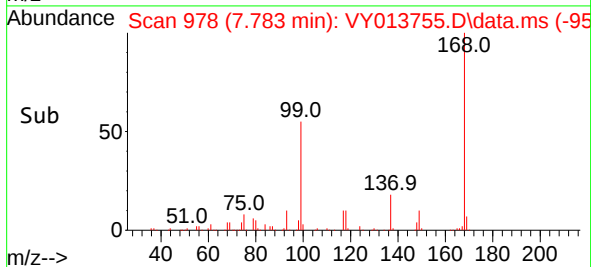
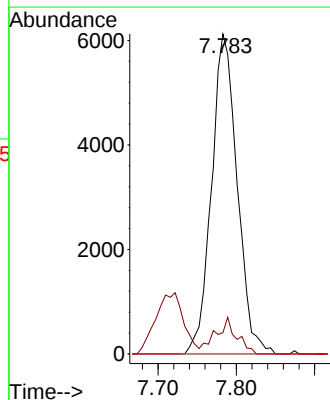
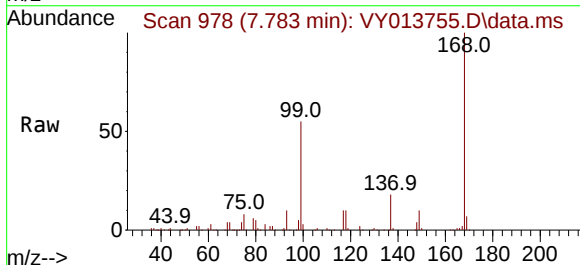
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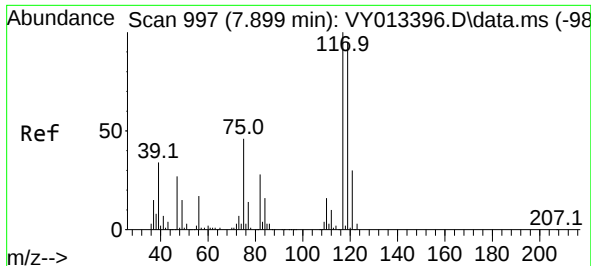
Tgt Ion:113 Resp: 106180
Ion Ratio Lower Upper
113 100
111 103.2 82.2 123.2
192 20.7 16.7 25.1



#36
1,1-Dichloropropene
Concen: 4.309 ug/l
RT: 7.783 min Scan# 978
Delta R.T. -0.134 min
Lab File: VY013755.D
Acq: 16 May 2023 13:31

Tgt Ion: 75 Resp: 13934
Ion Ratio Lower Upper
75 100
110 9.3 18.7 56.1#
77 0.0 24.6 37.0#

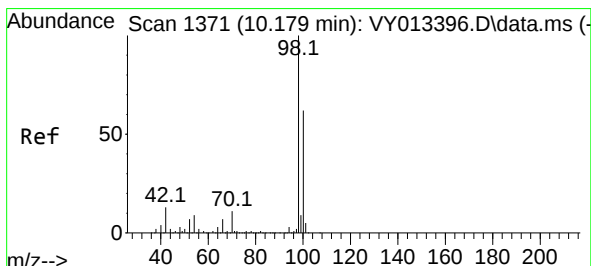
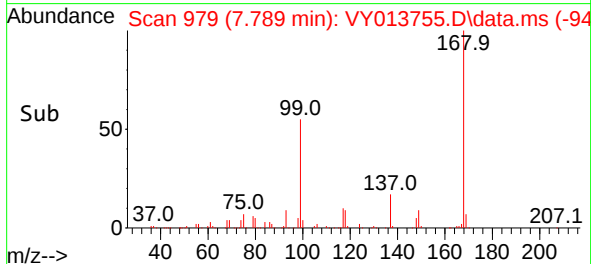
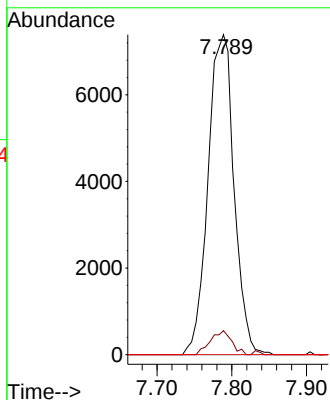
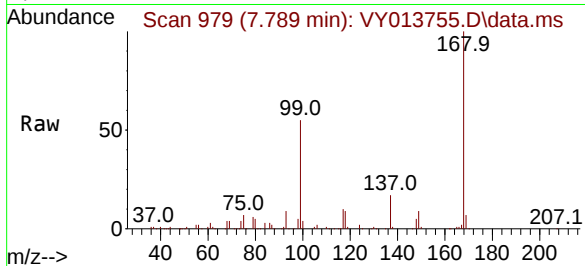




#38
Carbon Tetrachloride
Concen: 5.292 ug/l
RT: 7.789 min Scan# 91
Delta R.T. -0.110 min
Lab File: VY013755.D
Acq: 16 May 2023 13:31

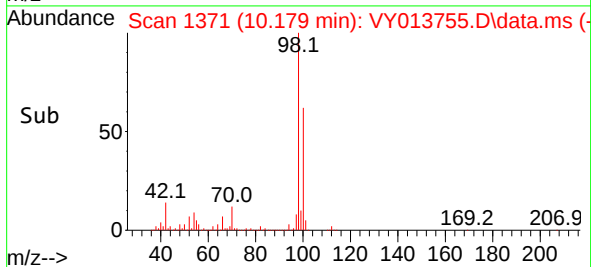
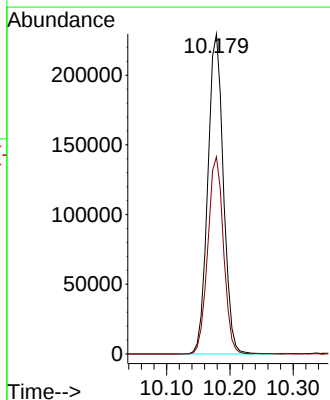
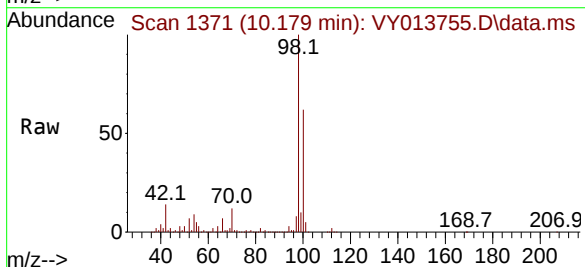
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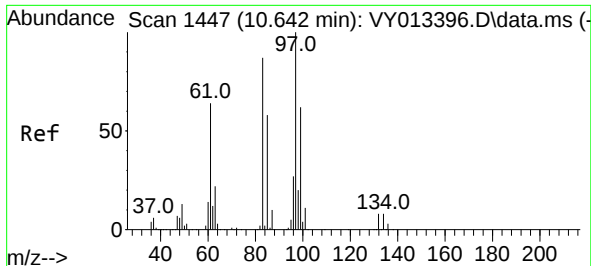
Tgt Ion:117 Resp: 17936
Ion Ratio Lower Upper
117 100
119 7.5 79.0 118.6#
121 0.0 26.6 40.0#



#50
Toluene-d8
Concen: 56.699 ug/l
RT: 10.179 min Scan# 1371
Delta R.T. -0.000 min
Lab File: VY013755.D
Acq: 16 May 2023 13:31

Tgt Ion: 98 Resp: 392990
Ion Ratio Lower Upper
98 100
100 62.0 50.5 75.7

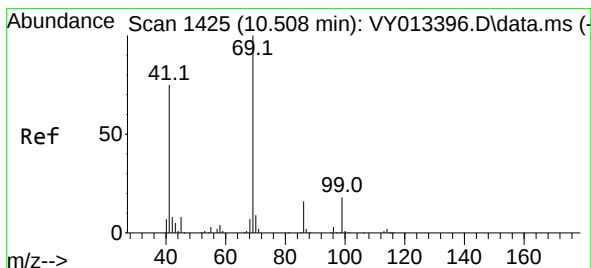
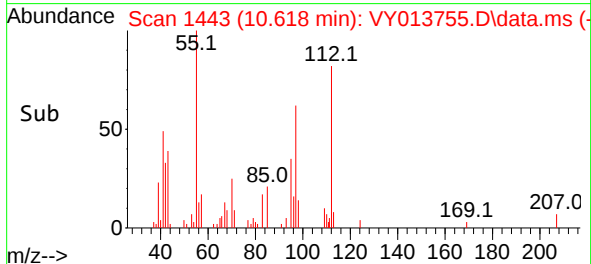
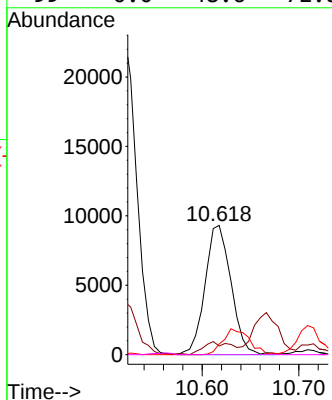
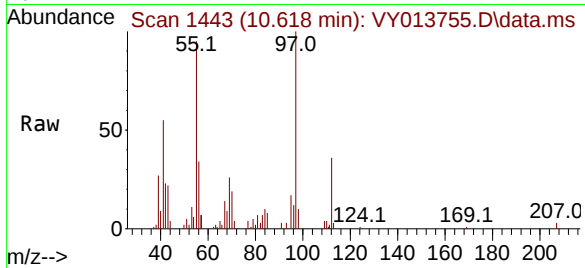




#55
1,1,2-Trichloroethane
Concen: 9.230 ug/l
RT: 10.618 min Scan# 1443
Delta R.T. -0.024 min
Lab File: VY013755.D
Acq: 16 May 2023 13:31

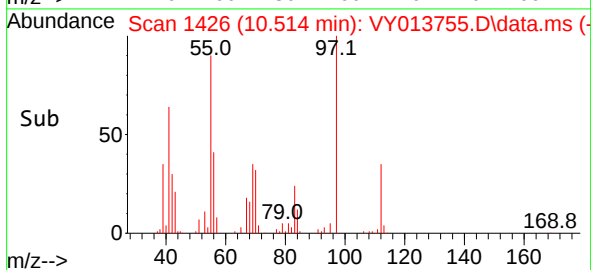
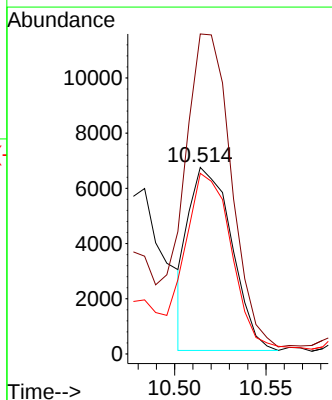
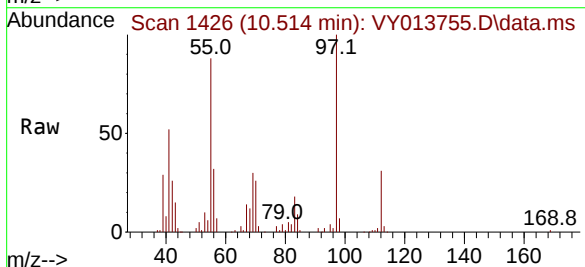
Instrument :
MSVOA_Y
ClientSampleId :
SB-03-5-7-20230510

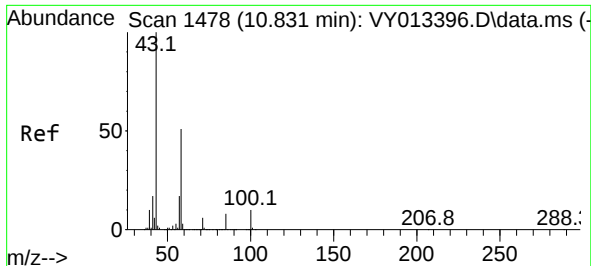
Tgt Ion:	97	Resp:	17418
Ion	Ratio	Lower	Upper
97	100		
83	5.8	66.4	99.6#
85	8.3	45.6	68.4#
99	0.0	48.6	72.8#



#56
Ethyl methacrylate
Concen: 4.139 ug/l
RT: 10.514 min Scan# 1426
Delta R.T. 0.006 min
Lab File: VY013755.D
Acq: 16 May 2023 13:31

Tgt Ion:	69	Resp:	10836
Ion	Ratio	Lower	Upper
69	100		
41	188.4	51.4	77.0#
39	102.1	29.0	43.6#

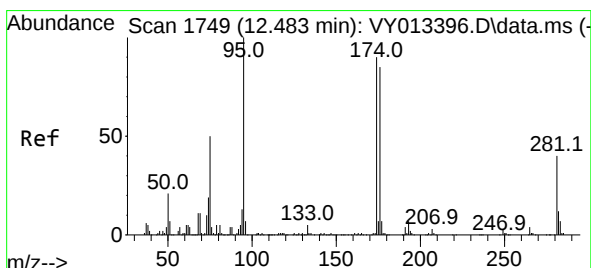
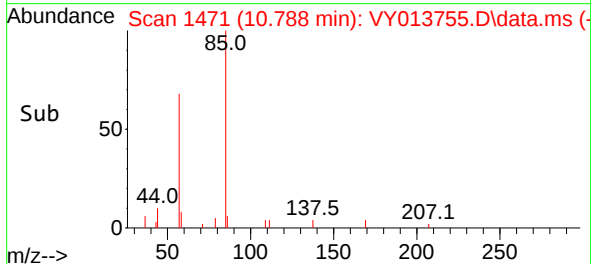
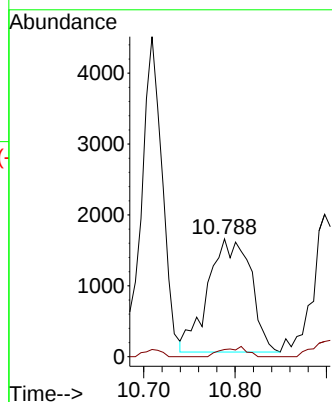
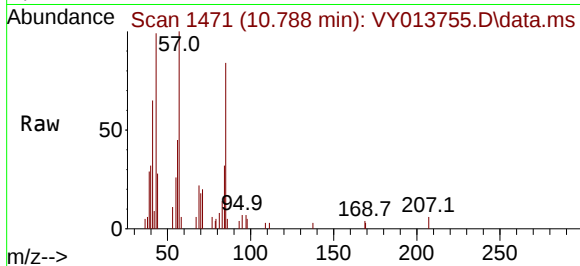




#59
2-Hexanone
Concen: 3.128 ug/l
RT: 10.788 min Scan# 1478
Delta R.T. -0.043 min
Lab File: VY013755.D
Acq: 16 May 2023 13:31

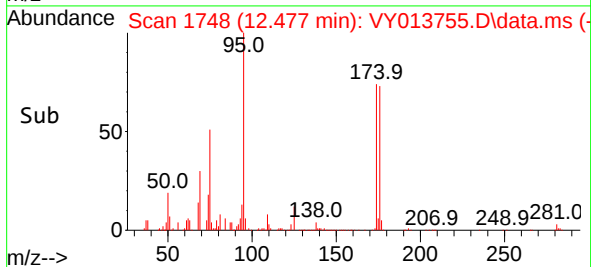
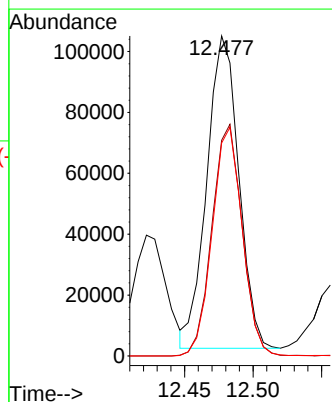
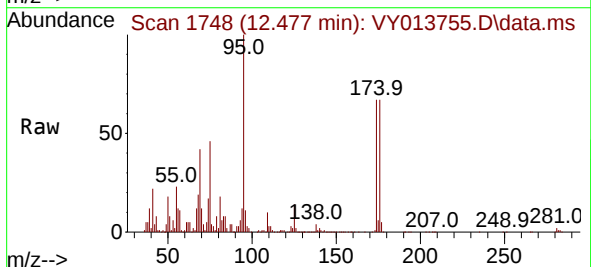
Instrument :
MSVOA_Y
ClientSampleId :
SB-03-5-7-20230510

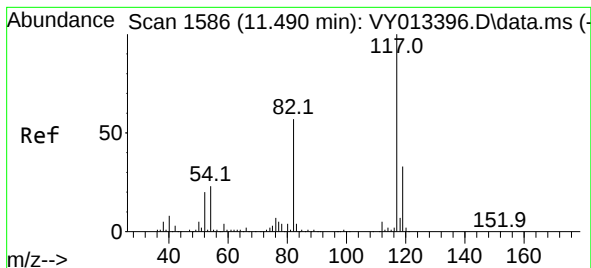
Tgt Ion: 43 Resp: 5204
Ion Ratio Lower Upper
43 100
58 5.0 26.3 78.8#



#62
4-Bromofluorobenzene
Concen: 71.180 ug/l
RT: 12.477 min Scan# 1748
Delta R.T. 0.000 min
Lab File: VY013755.D
Acq: 16 May 2023 13:31

Tgt Ion: 95 Resp: 166324
Ion Ratio Lower Upper
95 100
174 70.3 0.0 182.0
176 69.0 0.0 175.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.489 min Scan# 11

Delta R.T. 0.000 min

Lab File: VY013755.D

Acq: 16 May 2023 13:31

Instrument :

MSVOA_Y

ClientSampleId :

SB-03-5-7-20230510

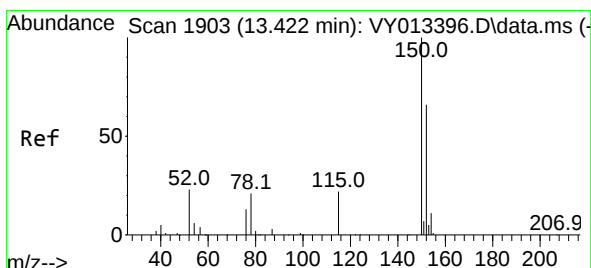
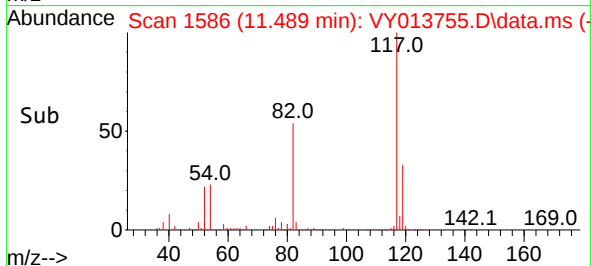
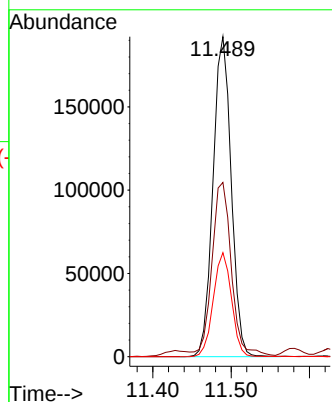
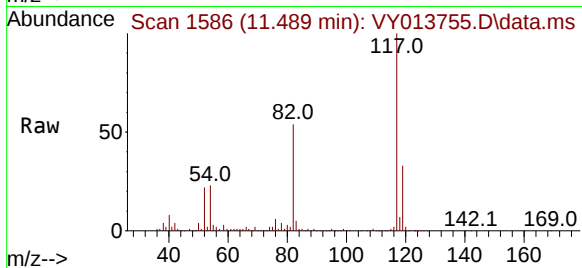
Tgt Ion:117 Resp: 310207

Ion Ratio Lower Upper

117 100

82 53.5 43.0 64.6

119 32.5 25.5 38.3



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.422 min Scan# 1903

Delta R.T. 0.000 min

Lab File: VY013755.D

Acq: 16 May 2023 13:31

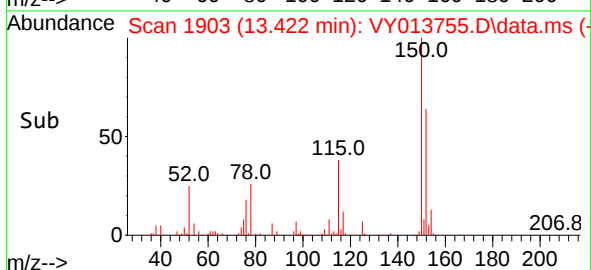
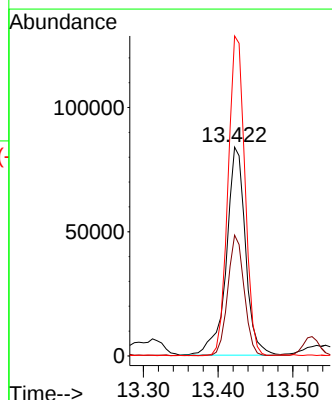
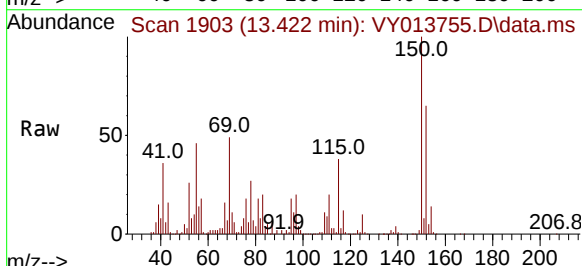
Tgt Ion:152 Resp: 148881

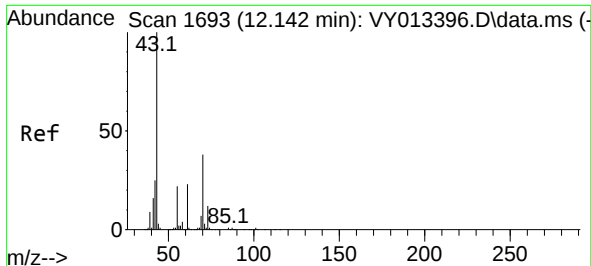
Ion Ratio Lower Upper

152 100

115 49.7 28.1 84.2

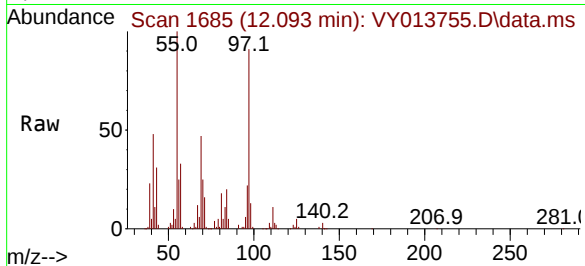
150 135.6 0.0 352.0



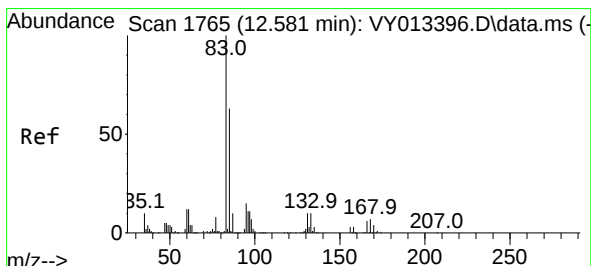
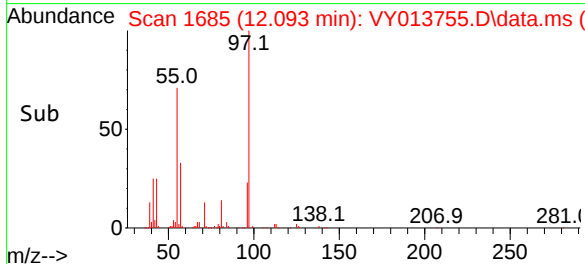
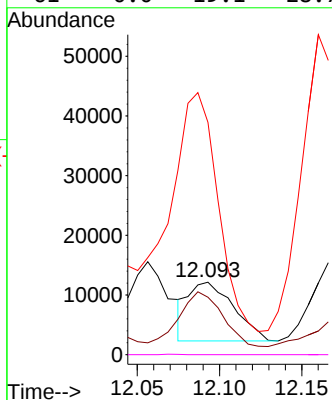


#74
N-amy1 acetate
Concen: 4.690 ug/l
RT: 12.093 min Scan# 1685
Delta R.T. -0.049 min
Lab File: VY013755.D
Acq: 16 May 2023 13:31

Instrument :
MSVOA_Y
ClientSampleId :
SB-03-5-7-20230510

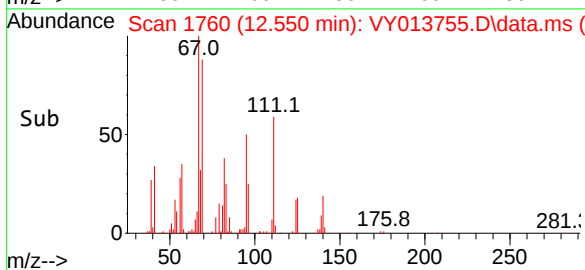
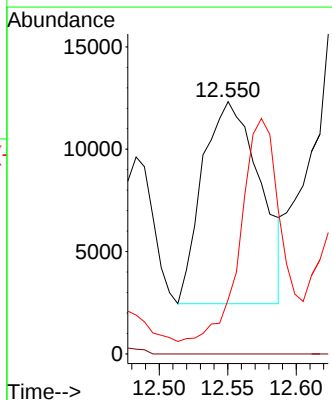
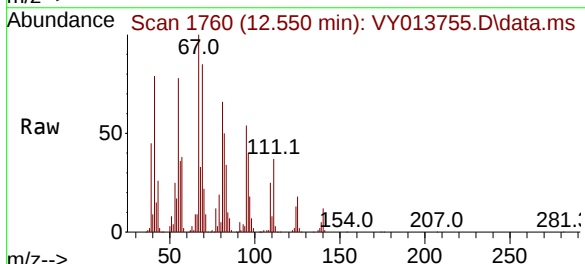


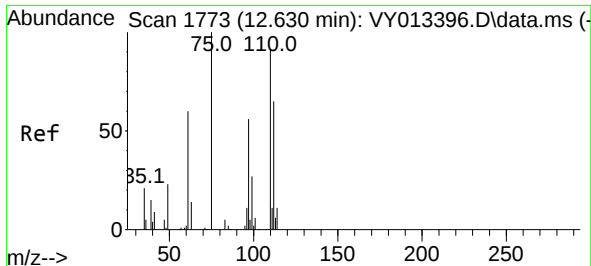
Tgt Ion: 43 Resp: 18793
Ion Ratio Lower Upper
43 100
70 88.9 33.0 49.4#
55 435.8 19.8 29.6#
61 0.0 19.1 28.7#



#75
1,1,2,2-Tetrachloroethane
Concen: 10.478 ug/l
RT: 12.550 min Scan# 1760
Delta R.T. -0.031 min
Lab File: VY013755.D
Acq: 16 May 2023 13:31

Tgt Ion: 83 Resp: 28840
Ion Ratio Lower Upper
83 100
131 0.0 5.7 17.0#
85 0.0 31.8 95.4#

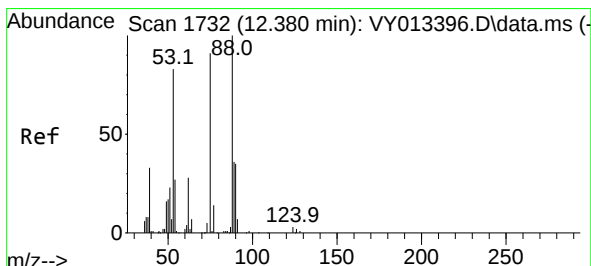
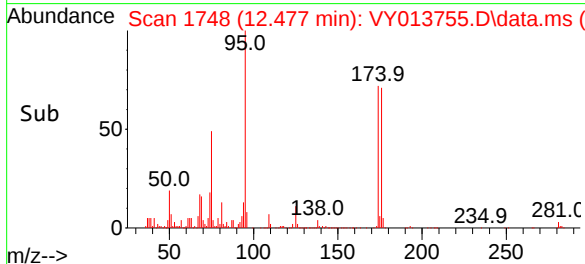
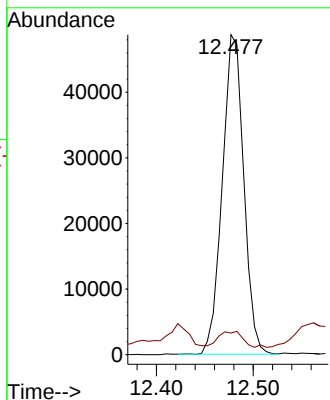
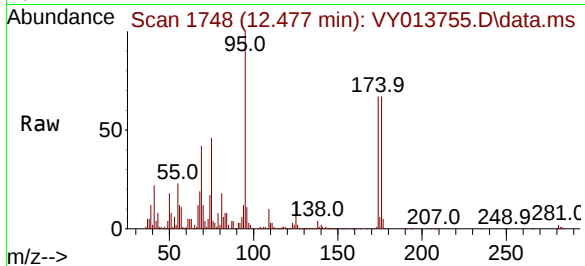




#76
1,2,3-Trichloropropane
Concen: 37.315 ug/l
RT: 12.477 min Scan# 1748
Delta R.T. -0.152 min
Lab File: VY013755.D
Acq: 16 May 2023 13:31

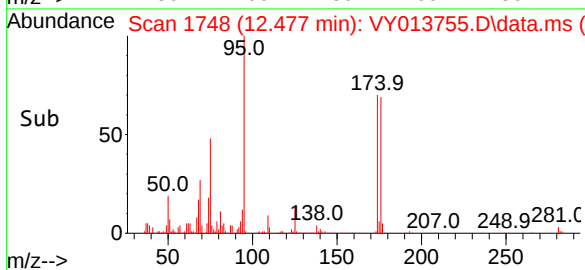
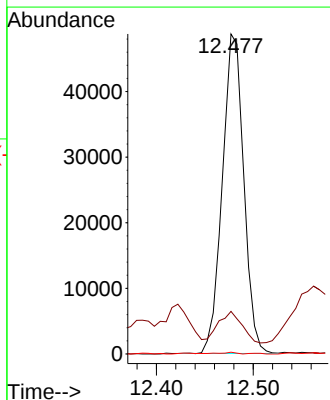
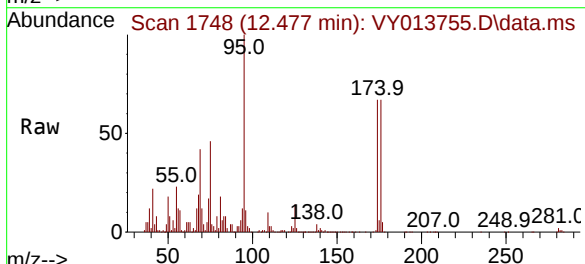
Instrument :
MSVOA_Y
ClientSampleId :
SB-03-5-7-20230510

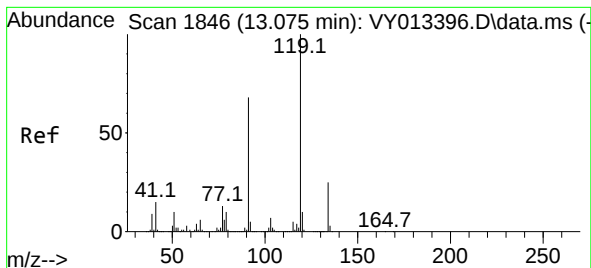
Tgt Ion: 75 Resp: 74923
Ion Ratio Lower Upper
75 100
77 5.5 0.0 0.0#



#81
trans-1,4-Dichloro-2-butene
Concen: 76.330 ug/l
RT: 12.477 min Scan# 1748
Delta R.T. 0.098 min
Lab File: VY013755.D
Acq: 16 May 2023 13:31

Tgt Ion: 75 Resp: 74923
Ion Ratio Lower Upper
75 100
53 10.8 73.2 109.8#
89 0.4 38.0 57.0#





#83

tert-Butylbenzene

Concen: 4.390 ug/l

RT: 13.075 min Scan# 1846

Delta R.T. 0.001 min

Lab File: VY013755.D

Acq: 16 May 2023 13:31

Instrument :

MSVOA_Y

ClientSampleId :

SB-03-5-7-20230510

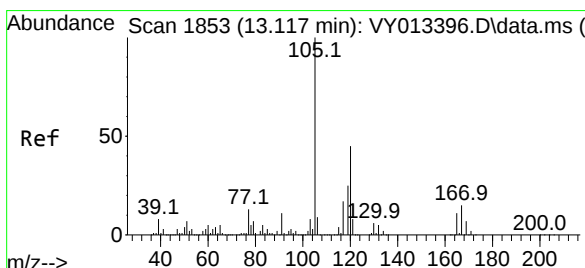
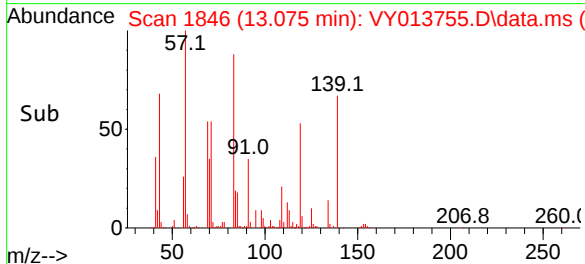
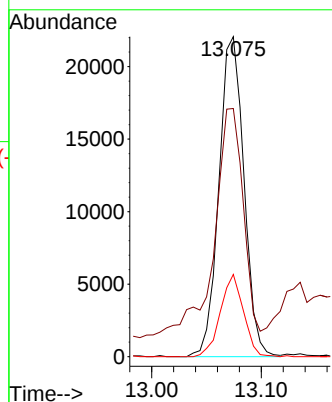
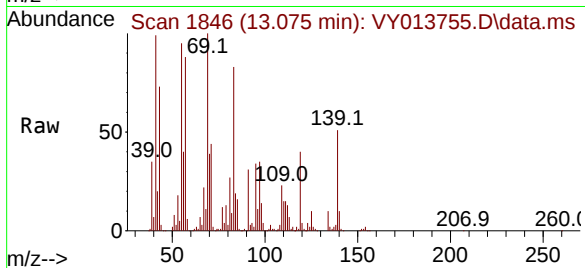
Tgt Ion:119 Resp: 34956

Ion Ratio Lower Upper

119 100

91 89.7 32.2 96.6

134 23.7 13.0 38.9



#84

1,2,4-Trimethylbenzene

Concen: 57.873 ug/l

RT: 13.251 min Scan# 1875

Delta R.T. 0.134 min

Lab File: VY013755.D

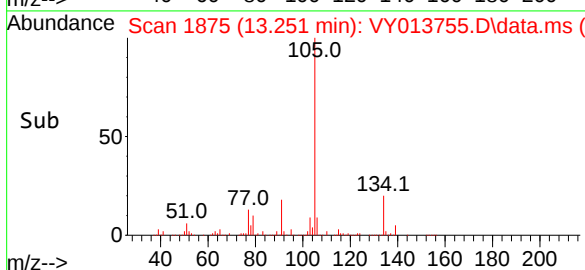
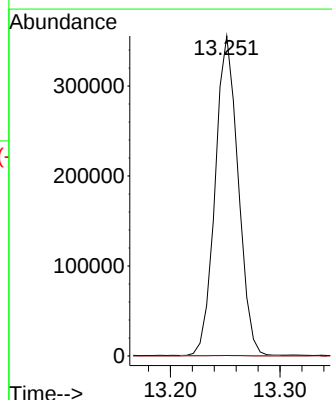
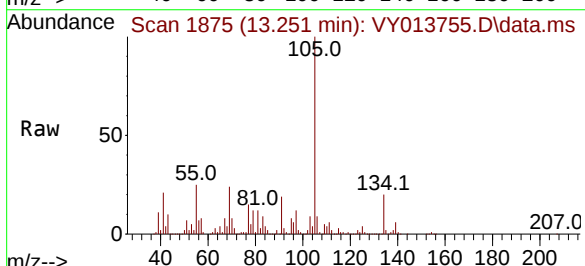
Acq: 16 May 2023 13:31

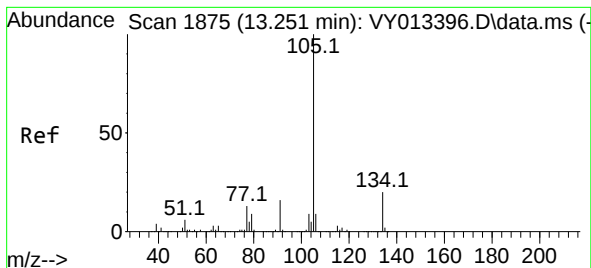
Tgt Ion:105 Resp: 517149

Ion Ratio Lower Upper

105 100

120 0.2 22.3 66.9#





#85

sec-Butylbenzene

Concen: 43.273 ug/l

RT: 13.251 min Scan# 1

Delta R.T. 0.000 min

Lab File: VY013755.D

Acq: 16 May 2023 13:31

Instrument :

MSVOA_Y

ClientSampleId :

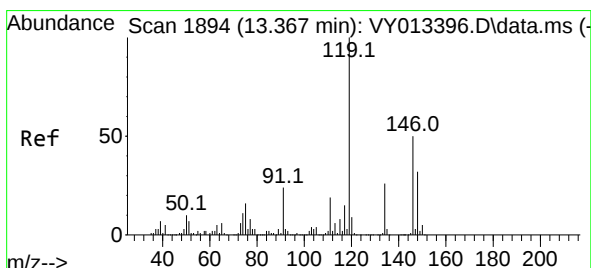
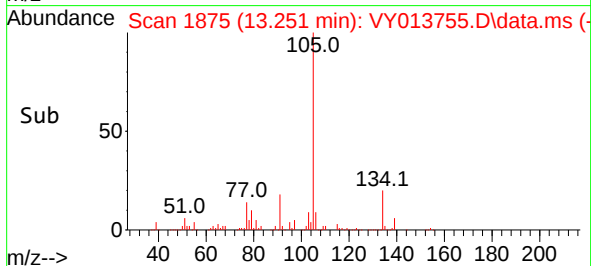
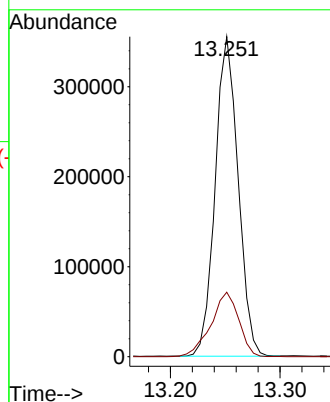
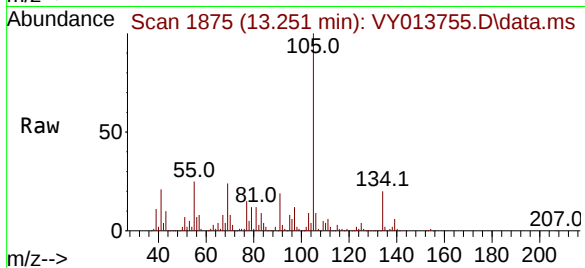
SB-03-5-7-20230510

Tgt Ion:105 Resp: 517149

Ion Ratio Lower Upper

105 100

134 24.5 10.3 30.9



#86

p-Isopropyltoluene

Concen: 12.747 ug/l

RT: 13.526 min Scan# 1920

Delta R.T. 0.159 min

Lab File: VY013755.D

Acq: 16 May 2023 13:31

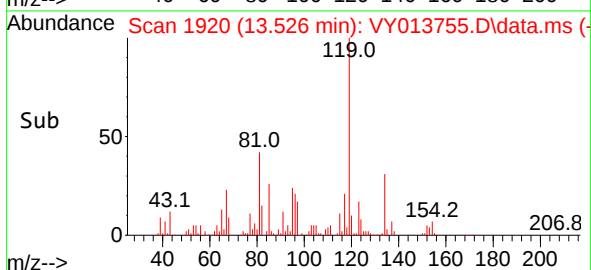
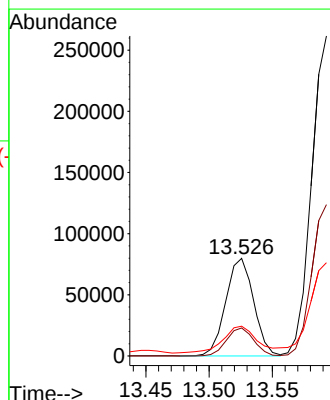
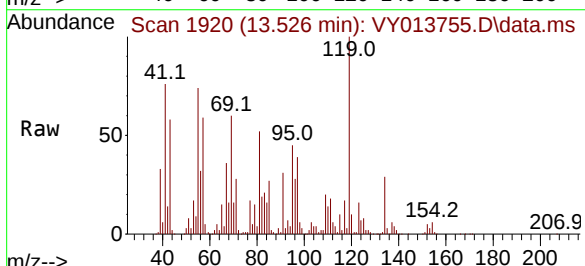
Tgt Ion:119 Resp: 122504

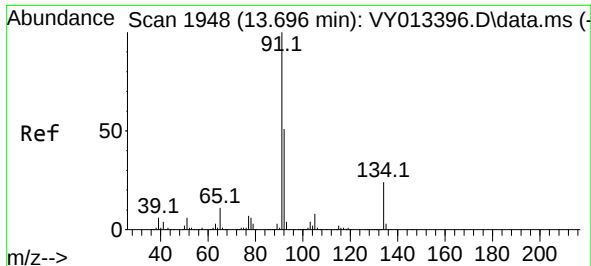
Ion Ratio Lower Upper

119 100

134 28.2 13.4 40.2

91 32.5 12.1 36.3

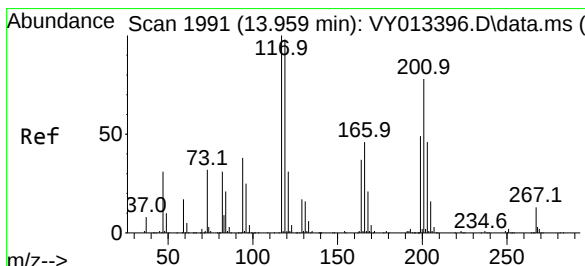
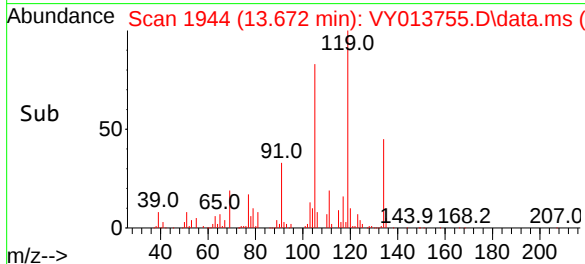
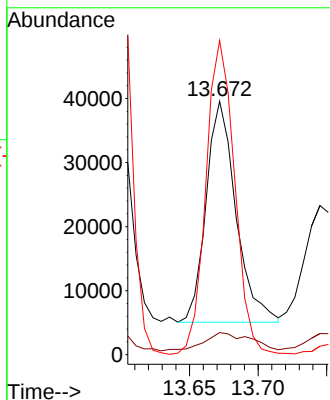
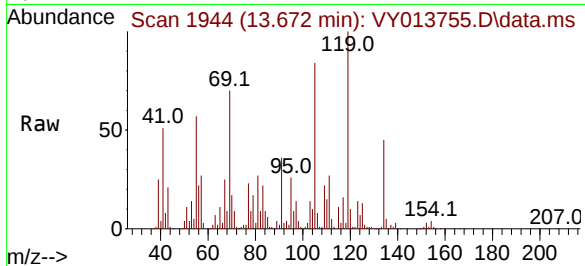




#89
n-Butylbenzene
Concen: 5.569 ug/l
RT: 13.672 min Scan# 1944
Delta R.T. -0.024 min
Lab File: VY013755.D
Acq: 16 May 2023 13:31

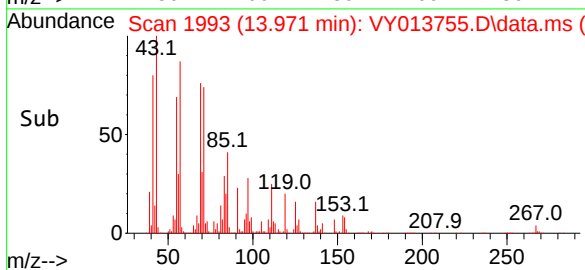
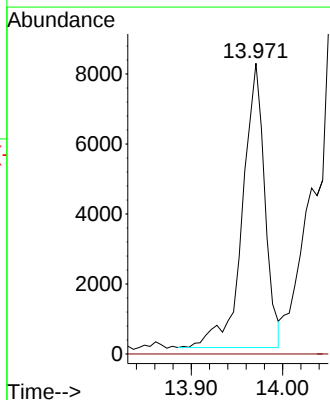
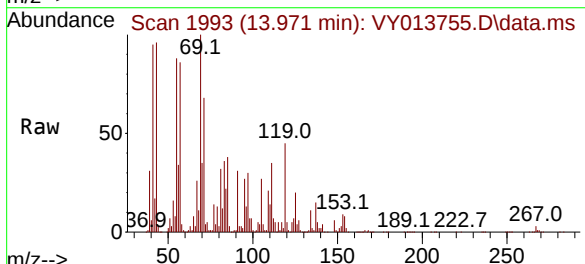
Instrument :
MSVOA_Y
ClientSampleId :
SB-03-5-7-20230510

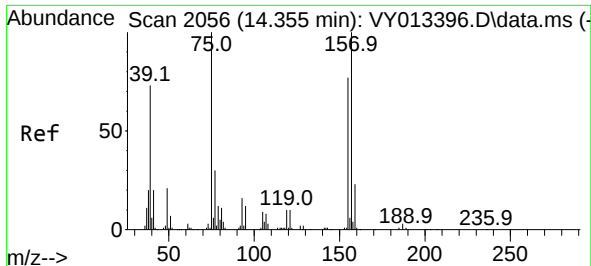
Tgt Ion: 91 Resp: 52238
Ion Ratio Lower Upper
91 100
92 12.9 25.8 77.3#
134 136.4 13.5 40.4#



#90
Hexachloroethane
Concen: 6.821 ug/l
RT: 13.971 min Scan# 1993
Delta R.T. 0.013 min
Lab File: VY013755.D
Acq: 16 May 2023 13:31

Tgt Ion: 117 Resp: 13796
Ion Ratio Lower Upper
117 100
201 0.0 41.6 124.8#





#92

1,2-Dibromo-3-Chloropropane

Concen: 9.590 ug/l

RT: 14.373 min Scan# 2056

Delta R.T. 0.018 min

Lab File: VY013755.D

Acq: 16 May 2023 13:31

Instrument :

MSVOA_Y

ClientSampleId :

SB-03-5-7-20230510

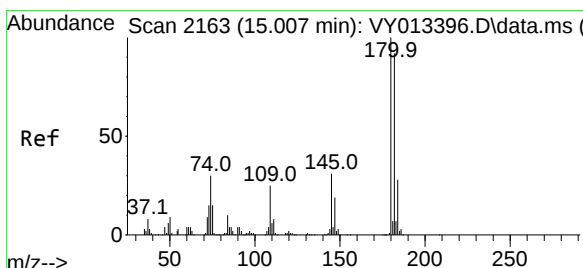
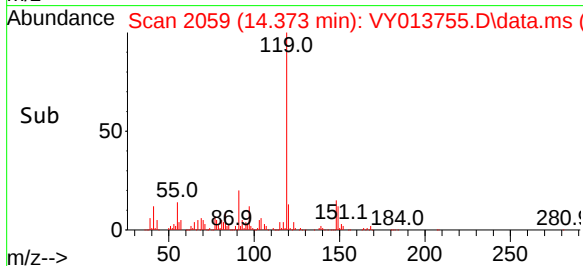
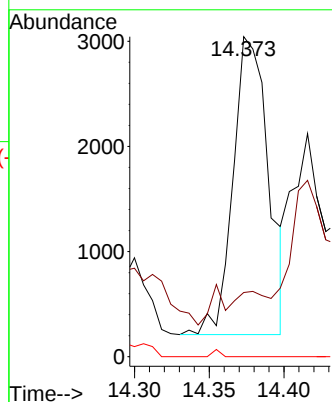
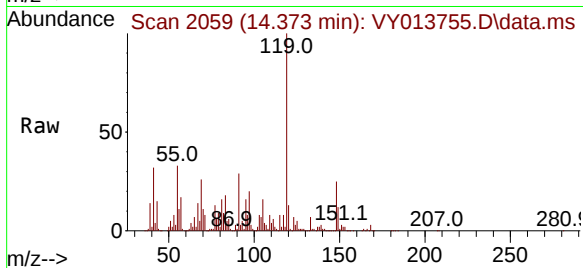
Tgt Ion: 75 Resp: 4662

Ion Ratio Lower Upper

75 100

155 0.0 44.6 134.0#

157 0.5 57.6 172.7#



#93

1,2,4-Trichlorobenzene

Concen: 1.467 ug/l

RT: 15.013 min Scan# 2164

Delta R.T. 0.006 min

Lab File: VY013755.D

Acq: 16 May 2023 13:31

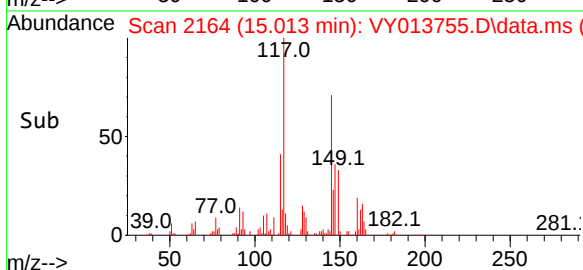
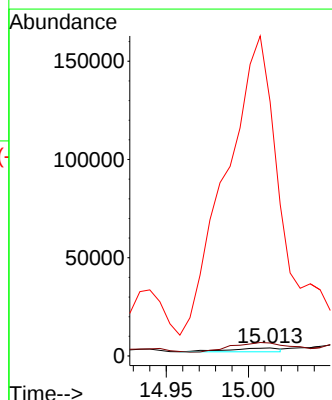
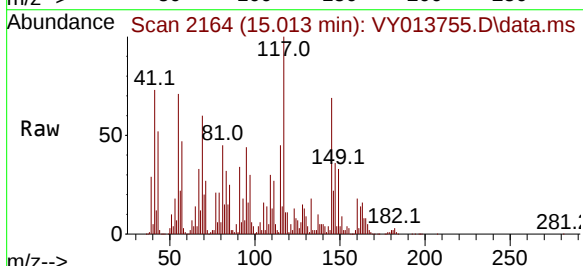
Tgt Ion: 180 Resp: 4105

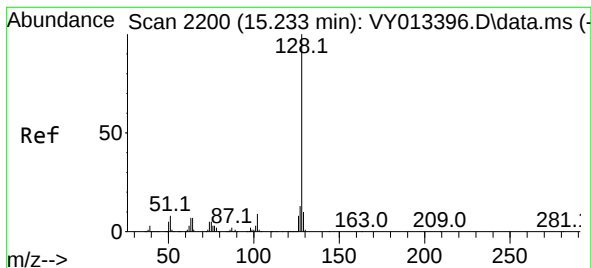
Ion Ratio Lower Upper

180 100

182 302.1 48.5 145.5#

145 9856.6 15.0 45.0#





#95

Naphthalene

Concen: 9.273 ug/l

RT: 15.202 min Scan# 2195

Delta R.T. -0.031 min

Lab File: VY013755.D

Acq: 16 May 2023 13:31

Instrument :

MSVOA_Y

ClientSampleId :

SB-03-5-7-20230510

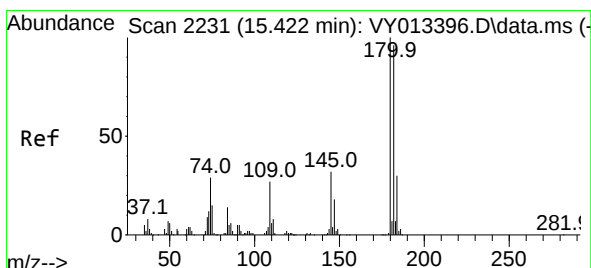
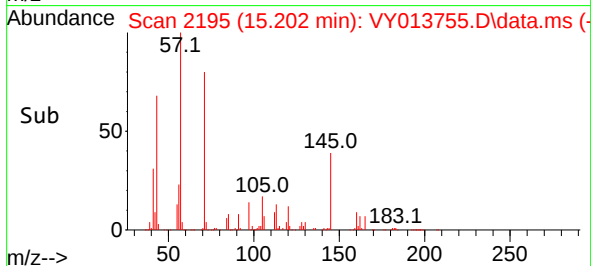
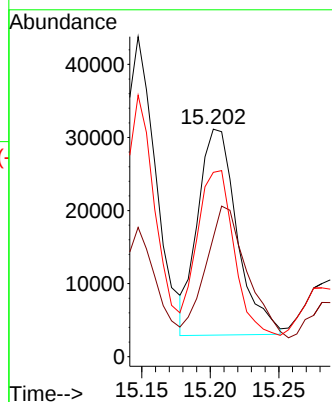
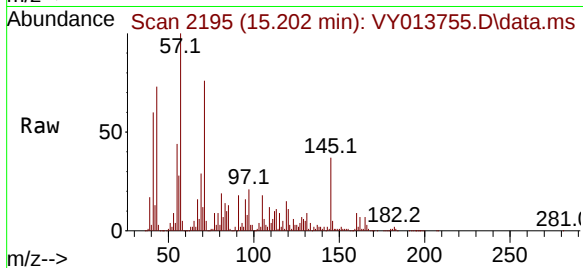
Tgt Ion:128 Resp: 56311

Ion Ratio Lower Upper

128 100

127 66.9 10.7 16.1#

129 74.7 8.8 13.2#



#96

1,2,3-Trichlorobenzene

Concen: 6.234 ug/l

RT: 15.391 min Scan# 2226

Delta R.T. -0.031 min

Lab File: VY013755.D

Acq: 16 May 2023 13:31

Tgt Ion:180 Resp: 15550

Ion Ratio Lower Upper

180 100

182 20.4 47.1 141.3#

145 993.7 15.9 47.7#

