

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY080223\
 Data File : VY014933.D
 Acq On : 02 Aug 2023 16:06
 Operator : SY/MD
 Sample : 03862-03
 Misc : 6.50g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 BUILDING-B-17-(0-5)

Quant Time: Aug 03 02:44:18 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071323S.M
 Quant Title : SW846 8260
 QLast Update : Fri Jul 14 02:09:50 2023
 Response via : Initial Calibration

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

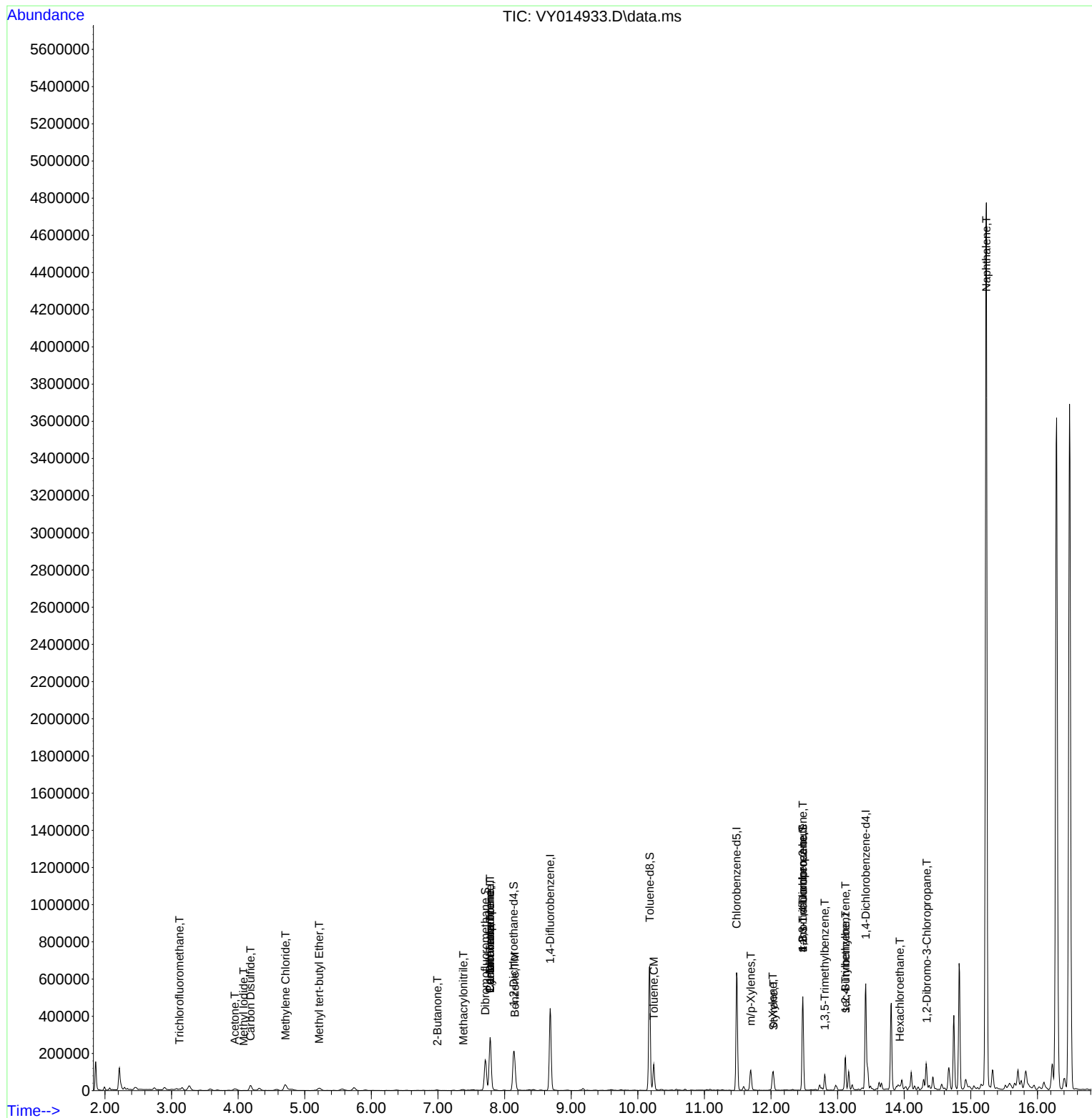
Internal Standards						
1) Pentafluorobenzene	7.783	168	212574	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.685	114	370821	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.483	117	344393	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.422	152	142862	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.136	65	137047	56.576	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 113.160%	
35) Dibromofluoromethane	7.710	113	115583	48.964	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 97.920%	
50) Toluene-d8	10.179	98	444306	51.053	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	= 102.100%	
62) 4-Bromofluorobenzene	12.477	95	148370	44.462	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	= 88.920%	
Target Compounds						Qvalue
7) Trichlorofluoromethane	3.119	101	5955	1.630	ug/l	97
10) Methyl Iodide	4.082	142	238	2.465	ug/l #	72
11) Tert butyl alcohol	4.960	59	1186	Below Cal	#	89
16) Acetone	3.948	43	13972	18.202	ug/l	95
17) Carbon Disulfide	4.186	76	55781	9.308	ug/l	98
19) Methyl tert-butyl Ether	5.216	73	18138	2.667	ug/l #	81
20) Methylene Chloride	4.710	84	23184	5.542	ug/l	89
25) 2-Butanone	6.990	43	4563	4.063	ug/l	95
31) Cyclohexane	7.783	56	6046	1.504	ug/l #	14
36) 1,1-Dichloropropene	7.783	75	16377	4.639	ug/l #	51
38) Carbon Tetrachloride	7.783	117	21269	5.700	ug/l #	15
40) Benzene	8.155	78	76959	7.665	ug/l	99
41) Methacrylonitrile	7.380	41	1715	1.372	ug/l #	31
52) Toluene	10.240	92	56188	8.746	ug/l	93
68) m/p-Xylenes	11.697	106	32264	6.379	ug/l	98
69) o-Xylene	12.026	106	20871	4.236	ug/l	95
70) Styrene	12.038	104	27064	3.259	ug/l	98
76) 1,2,3-Trichloropropane	12.477	75	79192	43.891	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.806	105	39946	4.276	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.477	75	79192	84.980	ug/l #	11
84) 1,2,4-Trimethylbenzene	13.117	105	93391	10.186	ug/l	99
85) sec-Butylbenzene	13.117	105	93391	7.682	ug/l #	56
90) Hexachloroethane	13.934	117	6788	3.330	ug/l #	8
92) 1,2-Dibromo-3-Chloropr...	14.337	75	1135	2.327	ug/l #	3
95) Naphthalene	15.233	128	3938720	584.925	ug/l	99

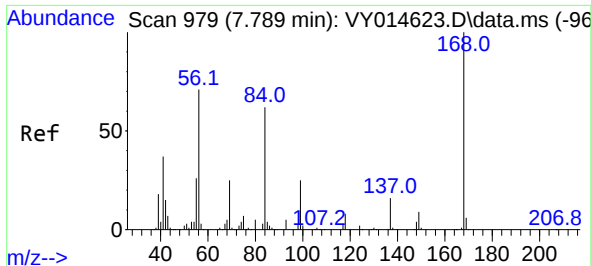
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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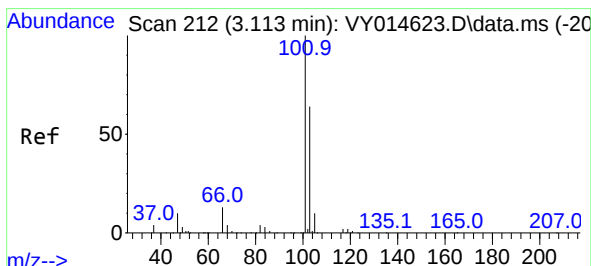
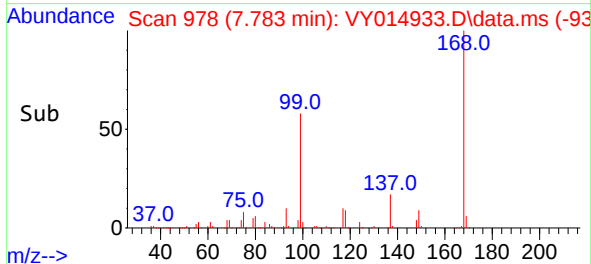
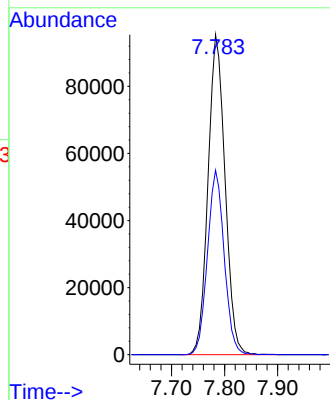
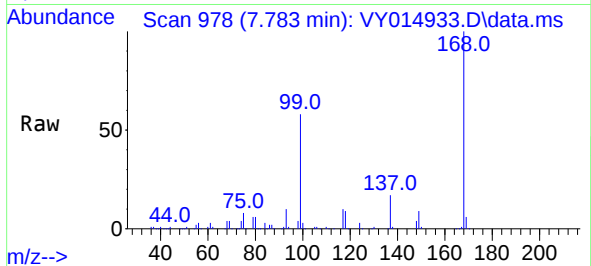




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.783 min Scan# 91
Delta R.T. -0.006 min
Lab File: VY014933.D
Acq: 02 Aug 2023 16:06

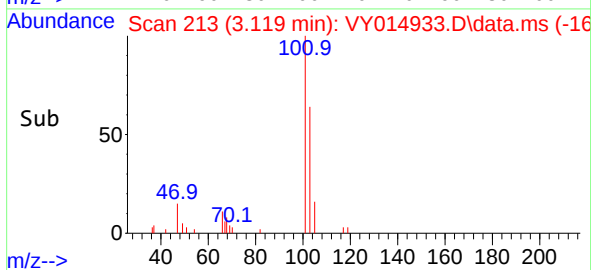
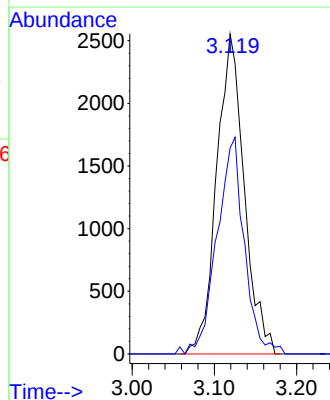
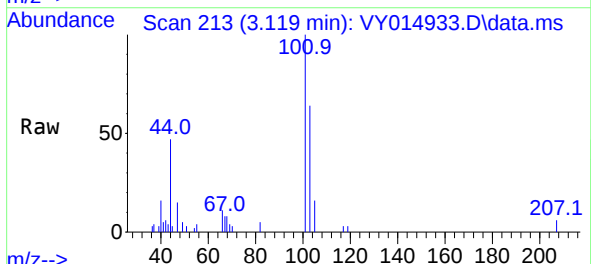
Instrument :
MSVOA_Y
ClientSampleId :
BUILDING-B-17-(0-5)

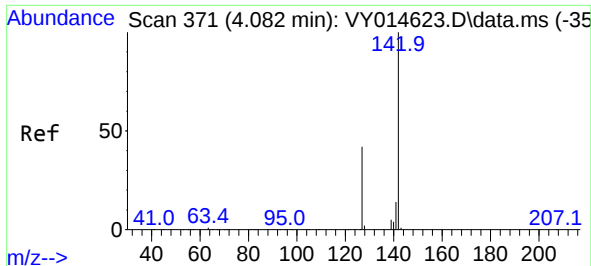
Tgt Ion:168 Resp: 212574
Ion Ratio Lower Upper
168 100
99 57.7 43.4 65.0



#7
Trichlorofluoromethane
Concen: 1.630 ug/l
RT: 3.119 min Scan# 213
Delta R.T. 0.006 min
Lab File: VY014933.D
Acq: 02 Aug 2023 16:06

Tgt Ion:101 Resp: 5955
Ion Ratio Lower Upper
101 100
103 62.1 51.4 77.0

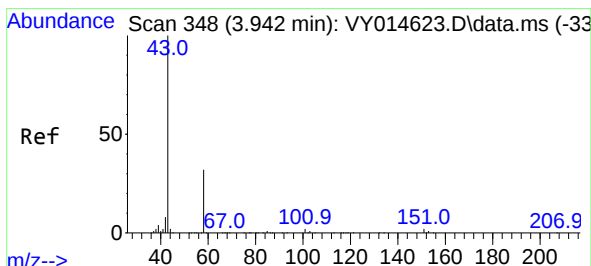
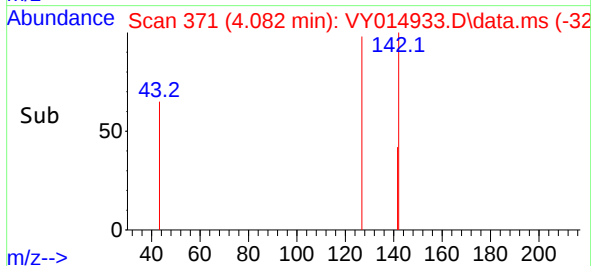
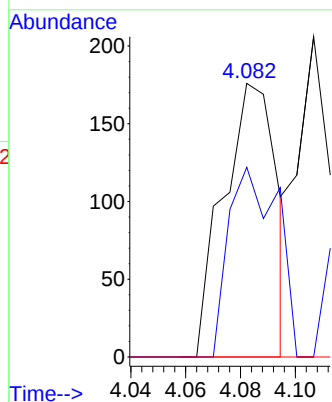
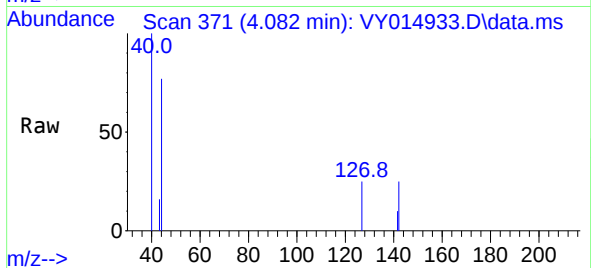




#10
Methyl Iodide
Concen: 2.465 ug/l
RT: 4.082 min Scan# 31
Delta R.T. 0.000 min
Lab File: VY014933.D
Acq: 02 Aug 2023 16:06

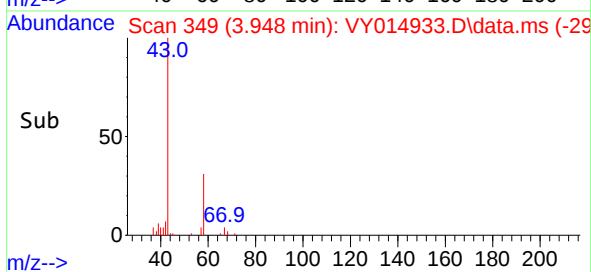
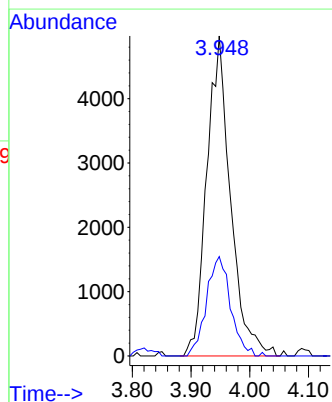
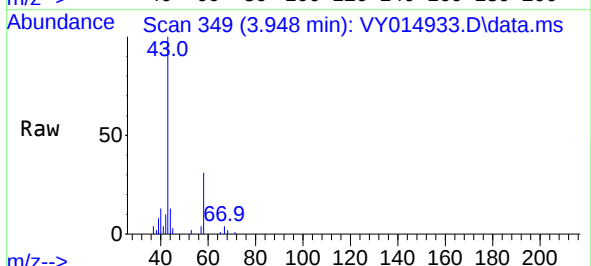
Instrument :
MSVOA_Y
ClientSampleId :
BUILDING-B-17-(0-5)

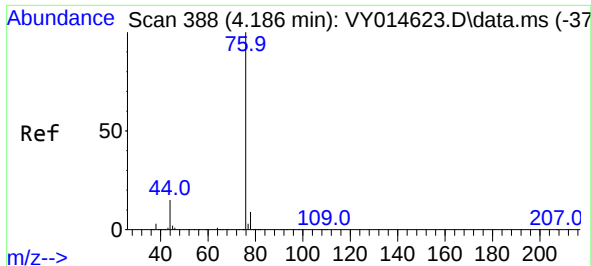
Tgt Ion:	142	Resp:	238
Ion	Ratio	Lower	Upper
142	100		
127	63.9	37.6	56.4#
141	0.0	11.8	17.8#



#16
Acetone
Concen: 18.202 ug/l
RT: 3.948 min Scan# 349
Delta R.T. 0.006 min
Lab File: VY014933.D
Acq: 02 Aug 2023 16:06

Tgt Ion:	43	Resp:	13972
Ion	Ratio	Lower	Upper
43	100		
58	31.1	22.7	34.1

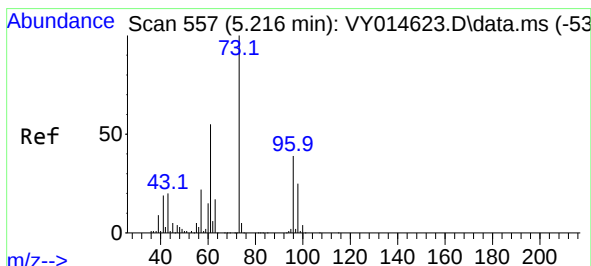
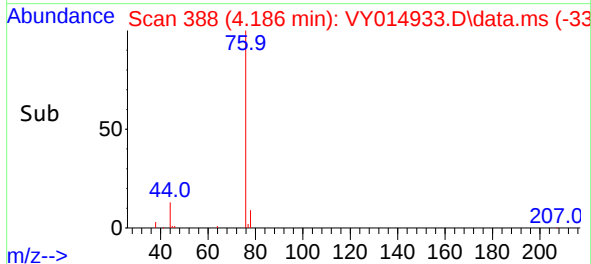
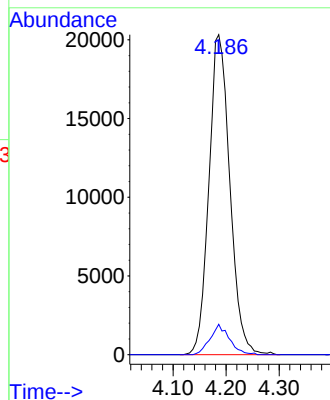
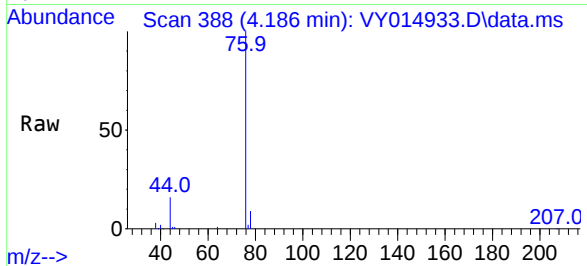




#17
Carbon Disulfide
Concen: 9.308 ug/l
RT: 4.186 min Scan# 388
Delta R.T. -0.000 min
Lab File: VY014933.D
Acq: 02 Aug 2023 16:06

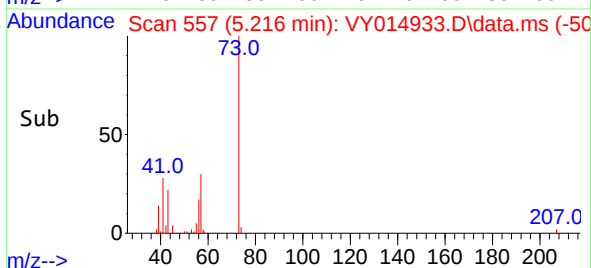
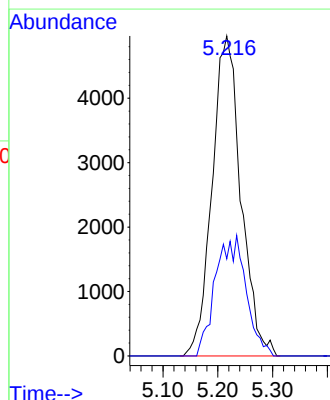
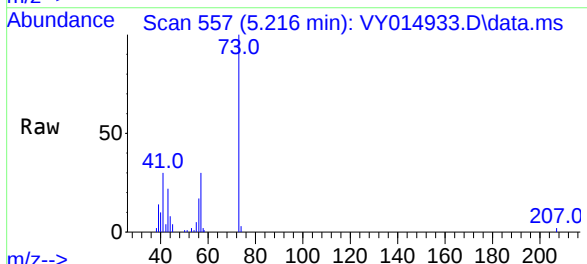
Instrument :
MSVOA_Y
ClientSampleId :
BUILDING-B-17-(0-5)

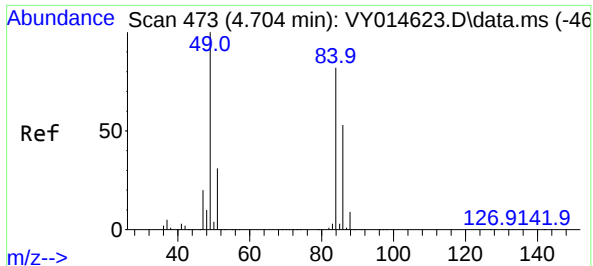
Tgt Ion: 76 Resp: 55781
Ion Ratio Lower Upper
76 100
78 9.5 7.0 10.4



#19
Methyl tert-butyl Ether
Concen: 2.667 ug/l
RT: 5.216 min Scan# 557
Delta R.T. 0.000 min
Lab File: VY014933.D
Acq: 02 Aug 2023 16:06

Tgt Ion: 73 Resp: 18138
Ion Ratio Lower Upper
73 100
57 30.4 17.3 25.9#



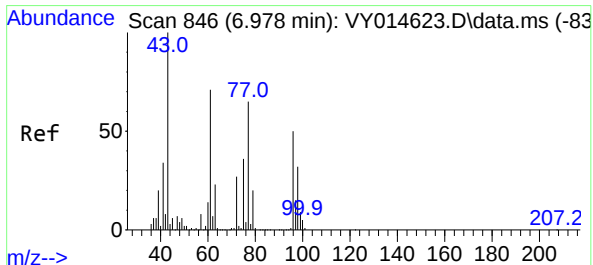
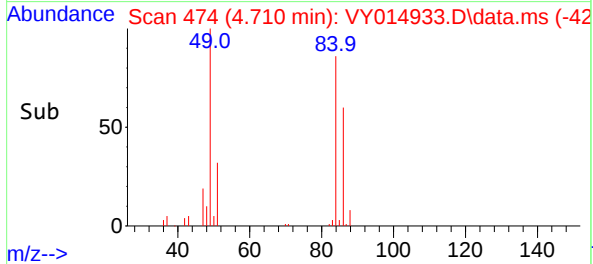
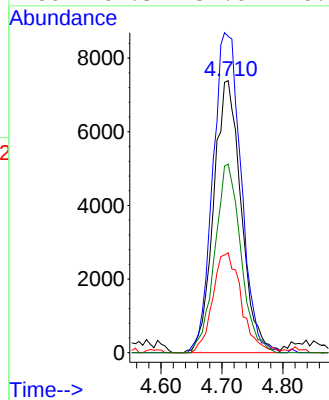
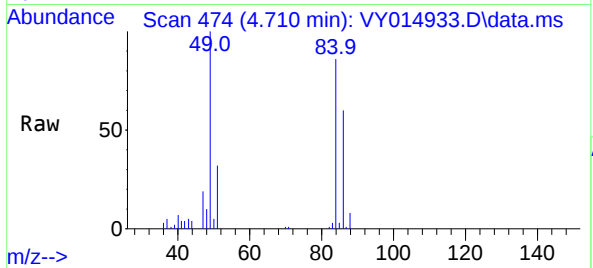


#20
Methylene Chloride
Concen: 5.542 ug/l
RT: 4.710 min Scan# 41
Delta R.T. 0.006 min
Lab File: VY014933.D
Acq: 02 Aug 2023 16:06

Instrument :
MSVOA_Y
ClientSampleId :
BUILDING-B-17-(0-5)

Tgt Ion: 84 Resp: 23184

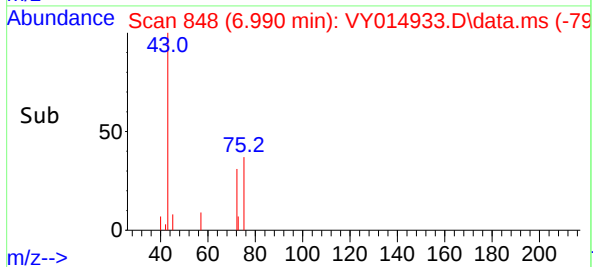
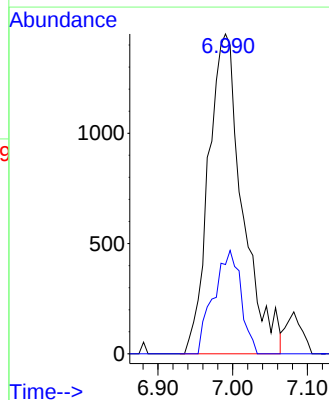
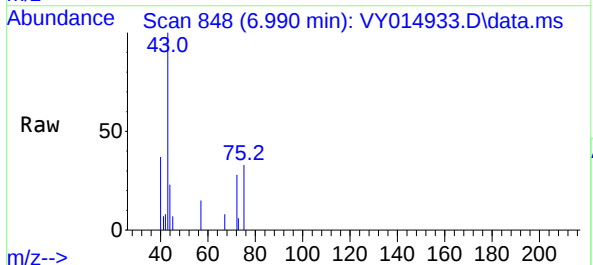
Ion	Ratio	Lower	Upper
84	100		
49	116.3	106.9	160.3
51	36.7	33.2	49.8
86	69.3	51.0	76.6

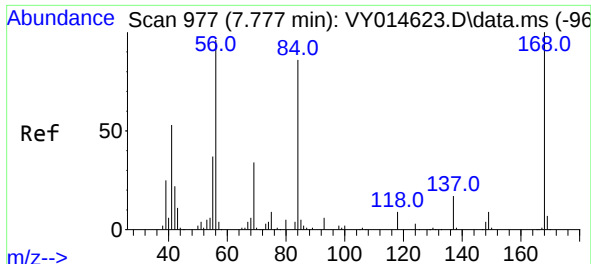


#25
2-Butanone
Concen: 4.063 ug/l
RT: 6.990 min Scan# 848
Delta R.T. 0.012 min
Lab File: VY014933.D
Acq: 02 Aug 2023 16:06

Tgt Ion: 43 Resp: 4563

Ion	Ratio	Lower	Upper
43	100		
72	27.9	20.5	30.7

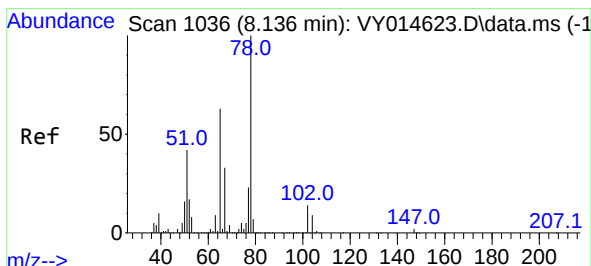
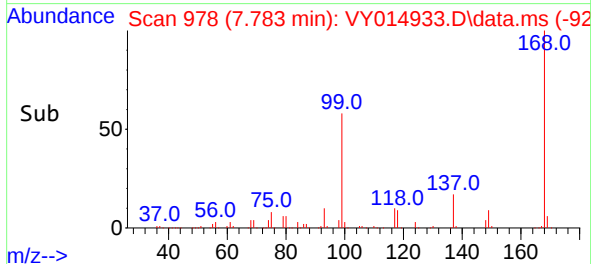
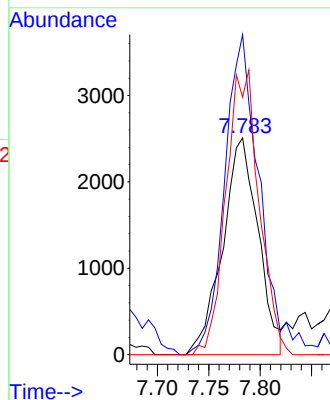
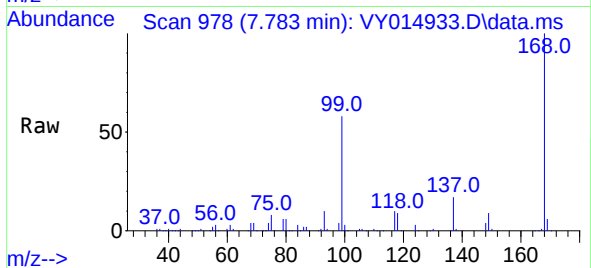




#31
Cyclohexane
Concen: 1.504 ug/l
RT: 7.783 min Scan# 91
Delta R.T. 0.006 min
Lab File: VY014933.D
Acq: 02 Aug 2023 16:06

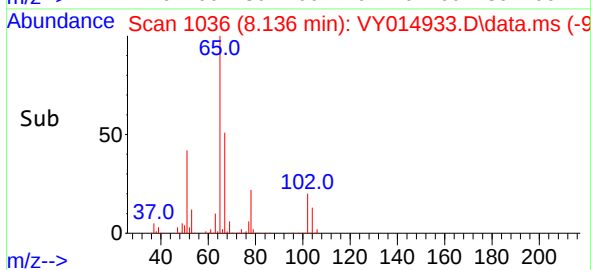
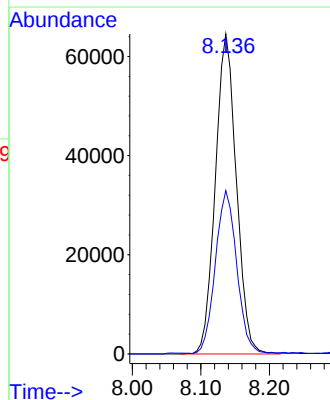
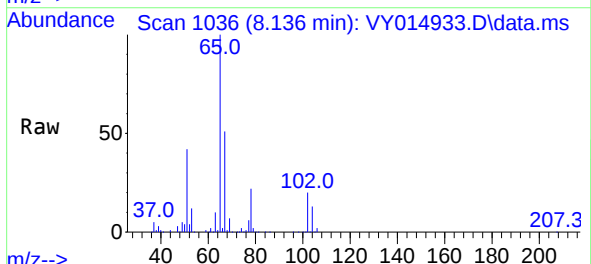
Instrument :
MSVOA_Y
ClientSampleId :
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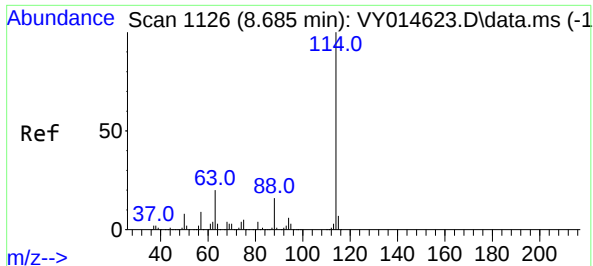
Tgt Ion: 56 Resp: 6046
Ion Ratio Lower Upper
56 100
69 147.6 27.8 41.6#
84 118.8 66.4 99.6#



#33
1,2-Dichloroethane-d4
Concen: 56.576 ug/l
RT: 8.136 min Scan# 1036
Delta R.T. 0.000 min
Lab File: VY014933.D
Acq: 02 Aug 2023 16:06

Tgt Ion: 65 Resp: 137047
Ion Ratio Lower Upper
65 100
67 51.8 0.0 101.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.685 min Scan# 1126

Delta R.T. 0.000 min

Lab File: VY014933.D

Acq: 02 Aug 2023 16:06

Instrument :

MSVOA_Y

ClientSampleId :

BUILDING-B-17-(0-5)

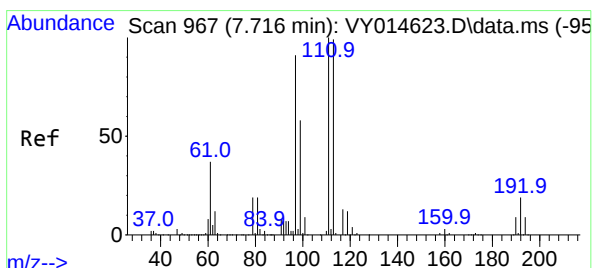
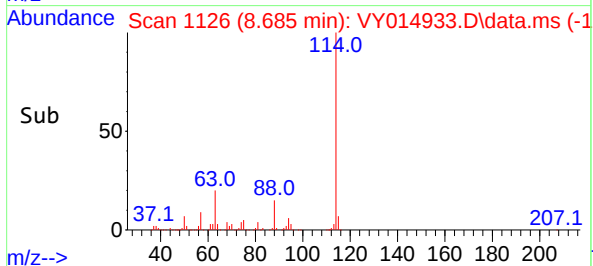
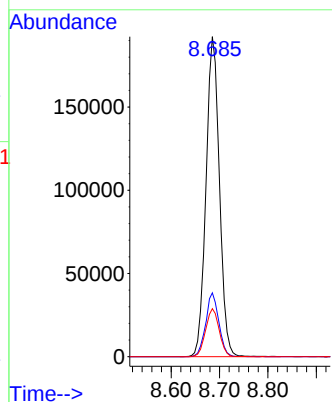
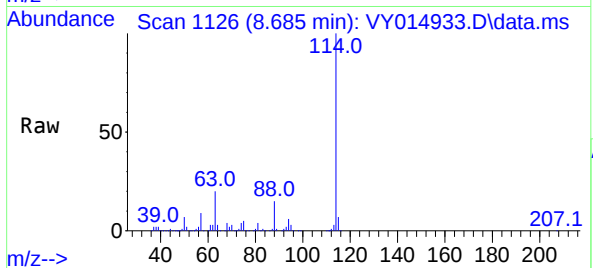
Tgt Ion:114 Resp: 370821

Ion Ratio Lower Upper

114 100

63 19.9 0.0 42.4

88 15.0 0.0 30.6



#35

Dibromofluoromethane

Concen: 48.964 ug/l

RT: 7.710 min Scan# 966

Delta R.T. -0.006 min

Lab File: VY014933.D

Acq: 02 Aug 2023 16:06

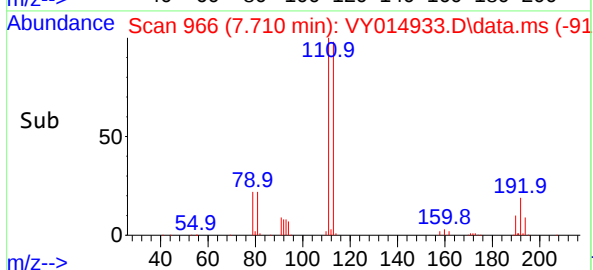
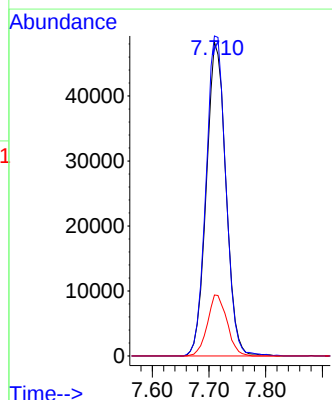
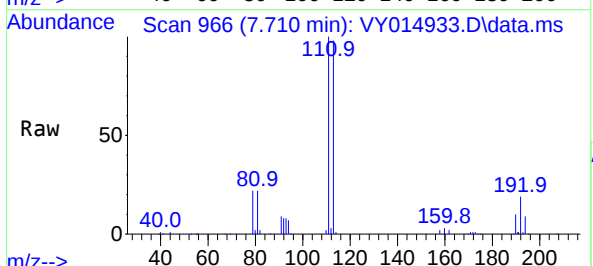
Tgt Ion:113 Resp: 115583

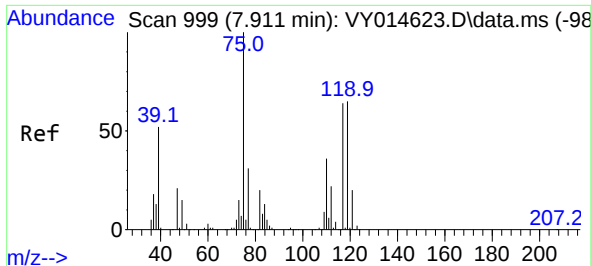
Ion Ratio Lower Upper

113 100

111 103.4 81.3 121.9

192 19.5 16.9 25.3





#36

1,1-Dichloropropene

Concen: 4.639 ug/l

RT: 7.783 min Scan# 91

Delta R.T. -0.128 min

Lab File: VY014933.D

Acq: 02 Aug 2023 16:06

Instrument :

MSVOA_Y

ClientSampleId :

BUILDING-B-17-(0-5)

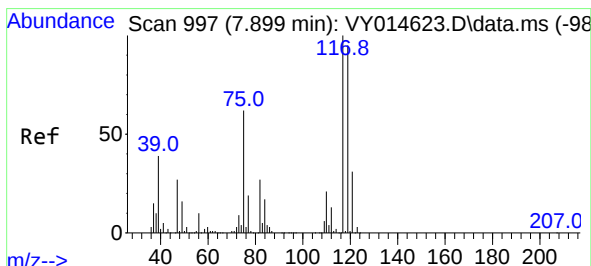
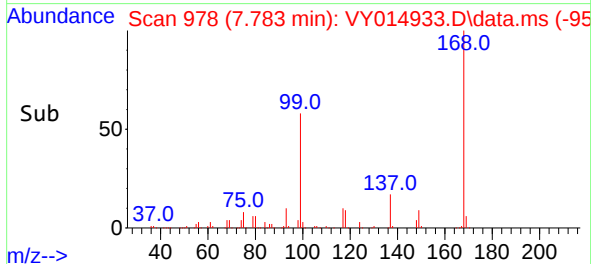
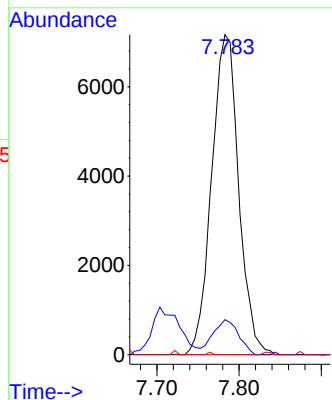
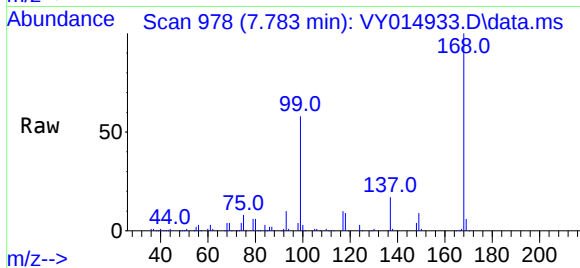
Tgt Ion: 75 Resp: 16377

Ion Ratio Lower Upper

75 100

110 10.3 17.8 53.5#

77 0.0 24.4 36.6#



#38

Carbon Tetrachloride

Concen: 5.700 ug/l

RT: 7.783 min Scan# 978

Delta R.T. -0.116 min

Lab File: VY014933.D

Acq: 02 Aug 2023 16:06

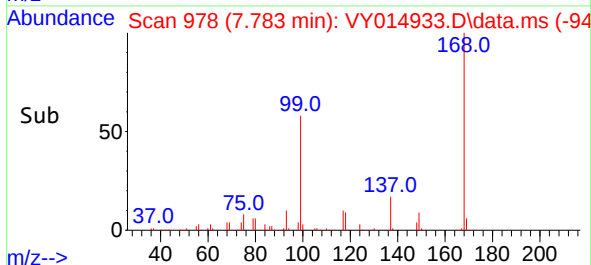
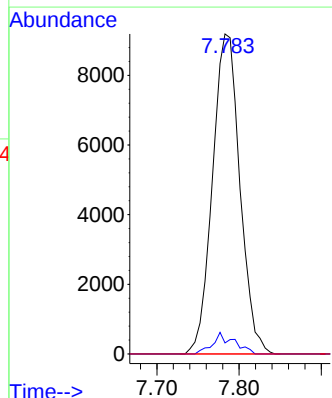
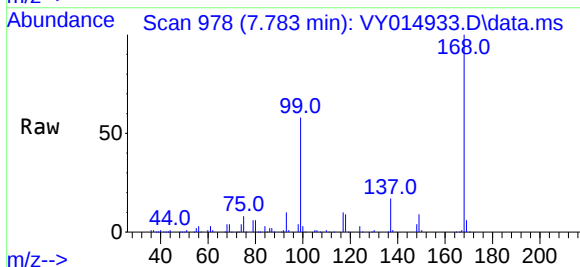
Tgt Ion: 117 Resp: 21269

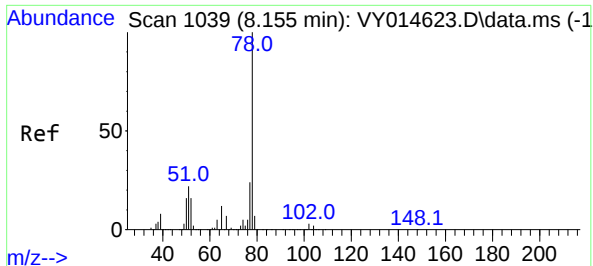
Ion Ratio Lower Upper

117 100

119 3.4 76.4 114.6#

121 0.0 25.8 38.6#

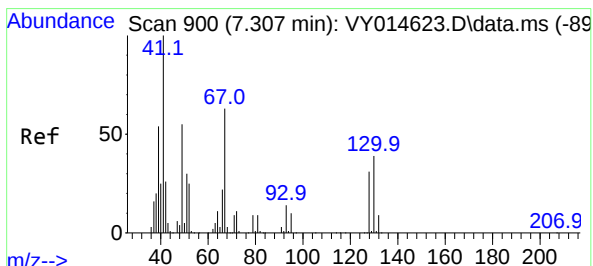
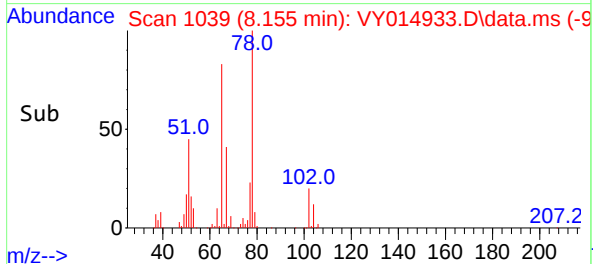
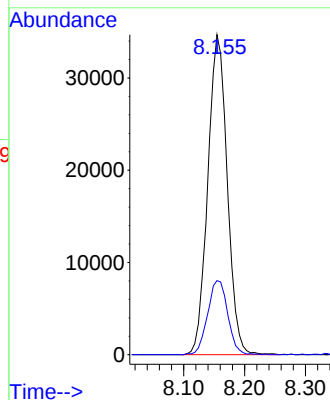
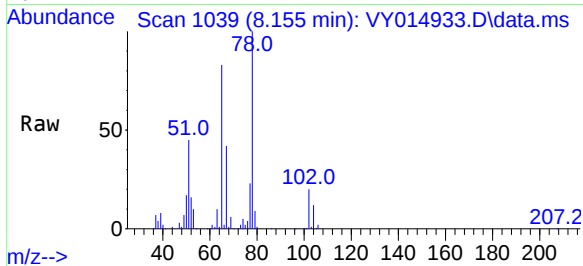




#40
Benzene
Concen: 7.665 ug/l
RT: 8.155 min Scan# 1039
Delta R.T. -0.000 min
Lab File: VY014933.D
Acq: 02 Aug 2023 16:06

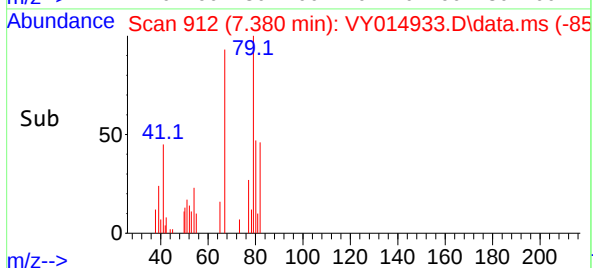
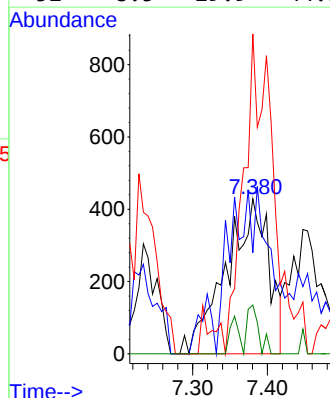
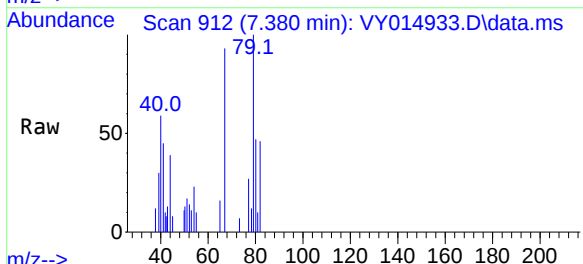
Instrument :
MSVOA_Y
ClientSampleId :
BUILDING-B-17-(0-5)

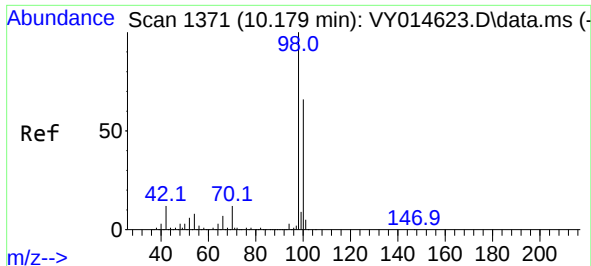
Tgt Ion: 78 Resp: 76959
Ion Ratio Lower Upper
78 100
77 23.2 19.0 28.6



#41
Methacrylonitrile
Concen: 1.372 ug/l
RT: 7.380 min Scan# 912
Delta R.T. 0.073 min
Lab File: VY014933.D
Acq: 02 Aug 2023 16:06

Tgt Ion: 41 Resp: 1715
Ion Ratio Lower Upper
41 100
39 0.0 52.1 78.1#
67 143.2 66.2 99.2#
52 8.5 29.9 44.9#

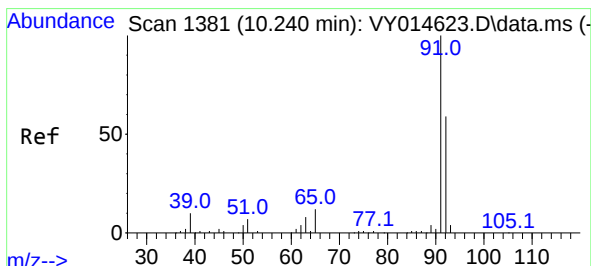
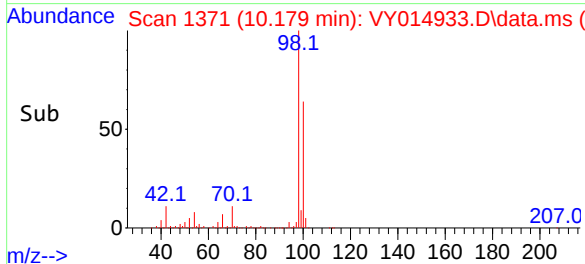
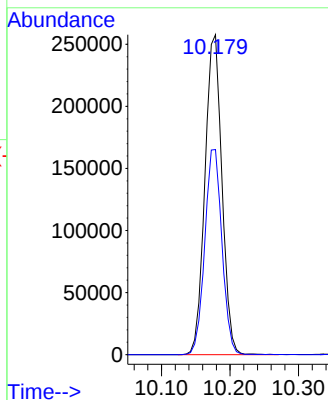
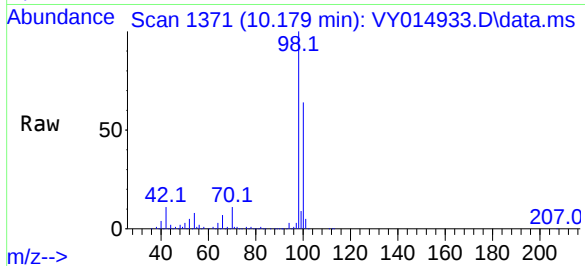




#50
Toluene-d8
Concen: 51.053 ug/l
RT: 10.179 min Scan# 1371
Delta R.T. -0.000 min
Lab File: VY014933.D
Acq: 02 Aug 2023 16:06

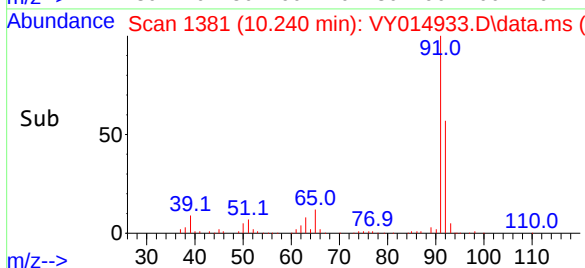
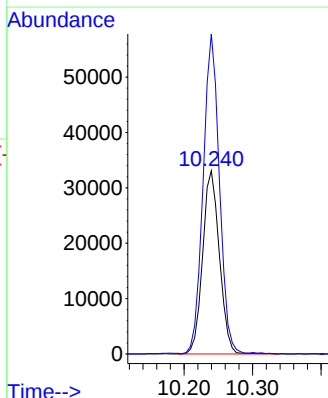
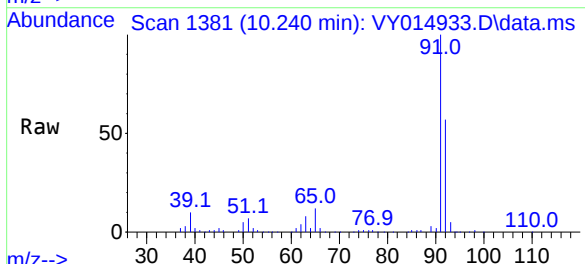
Instrument :
MSVOA_Y
ClientSampleId :
BUILDING-B-17-(0-5)

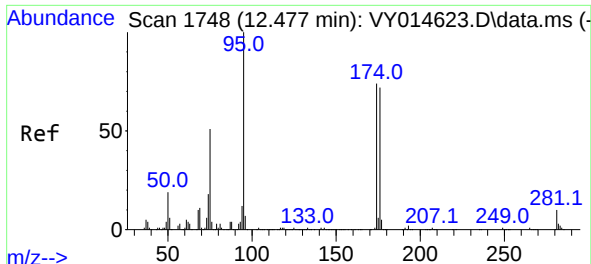
Tgt Ion: 98 Resp: 444306
Ion Ratio Lower Upper
98 100
100 65.0 50.1 75.1



#52
Toluene
Concen: 8.746 ug/l
RT: 10.240 min Scan# 1381
Delta R.T. -0.000 min
Lab File: VY014933.D
Acq: 02 Aug 2023 16:06

Tgt Ion: 92 Resp: 56188
Ion Ratio Lower Upper
92 100
91 169.6 143.8 215.6

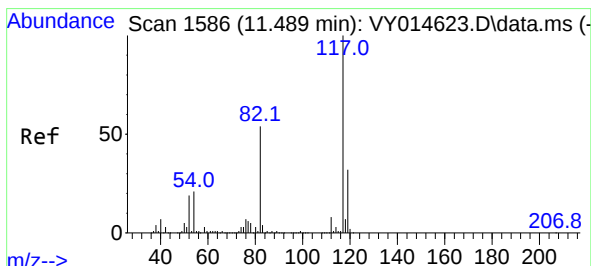
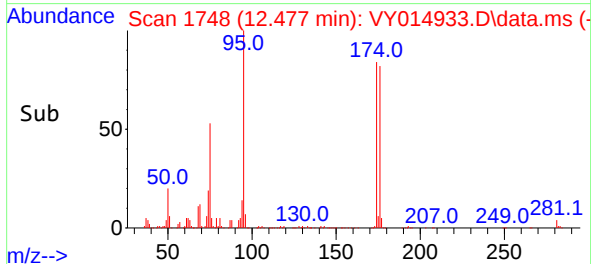
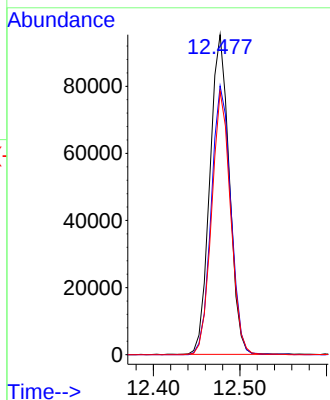
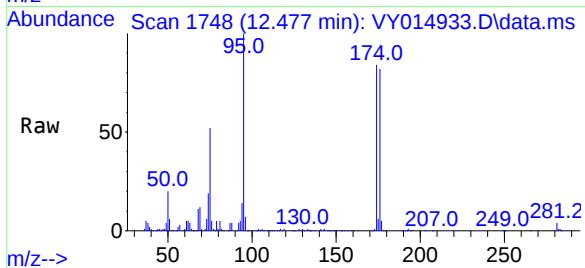




#62
4-Bromofluorobenzene
Concen: 44.462 ug/l
RT: 12.477 min Scan# 11
Delta R.T. 0.000 min
Lab File: VY014933.D
Acq: 02 Aug 2023 16:06

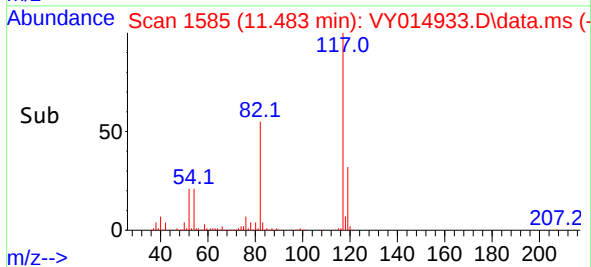
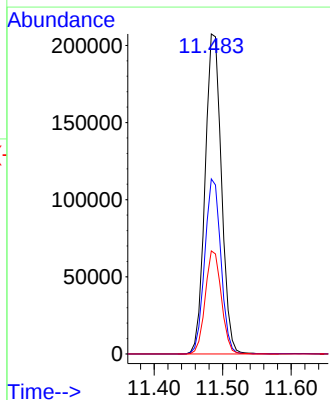
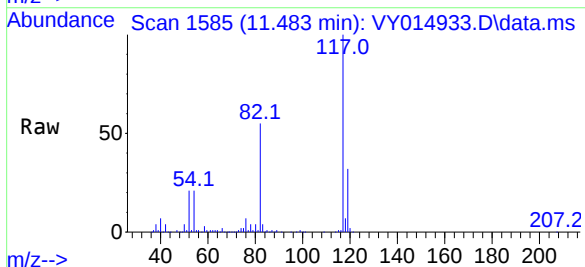
Instrument :
MSVOA_Y
ClientSampleId :
BUILDING-B-17-(0-5)

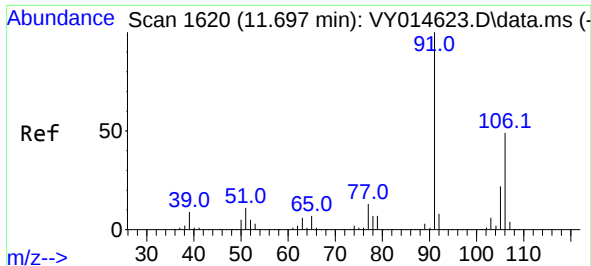
Tgt Ion: 95 Resp: 148370
Ion Ratio Lower Upper
95 100
174 84.7 0.0 178.2
176 80.0 0.0 173.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.483 min Scan# 1585
Delta R.T. -0.006 min
Lab File: VY014933.D
Acq: 02 Aug 2023 16:06

Tgt Ion: 117 Resp: 344393
Ion Ratio Lower Upper
117 100
82 54.7 43.4 65.0
119 32.2 26.3 39.5

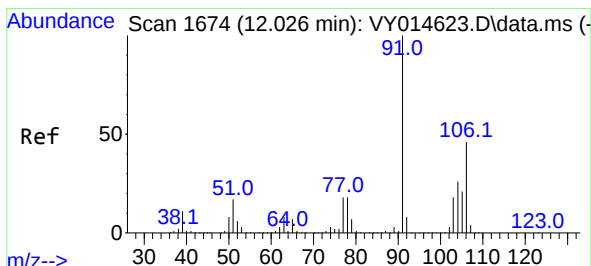
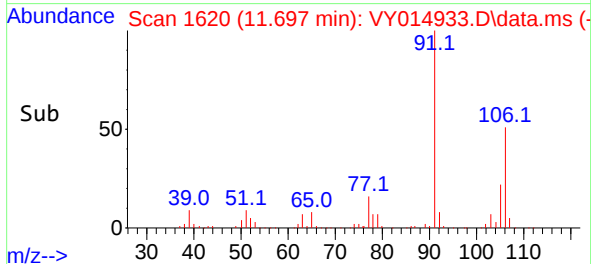
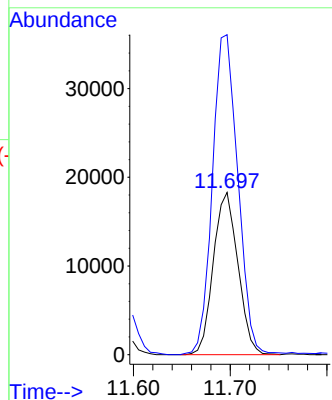
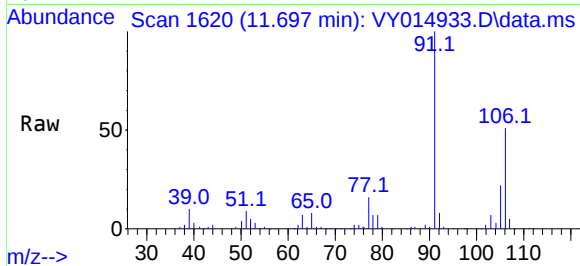




#68
m/p-Xylenes
Concen: 6.379 ug/l
RT: 11.697 min Scan# 1620
Delta R.T. -0.000 min
Lab File: VY014933.D
Acq: 02 Aug 2023 16:06

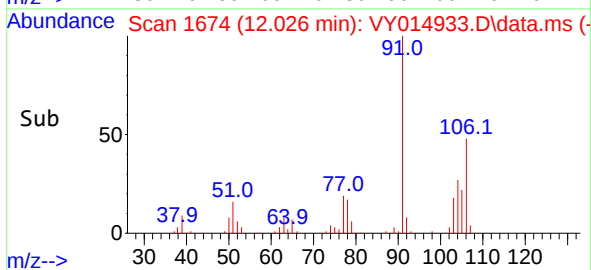
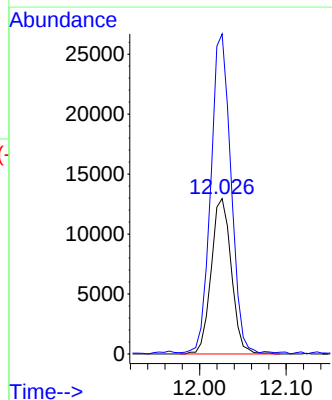
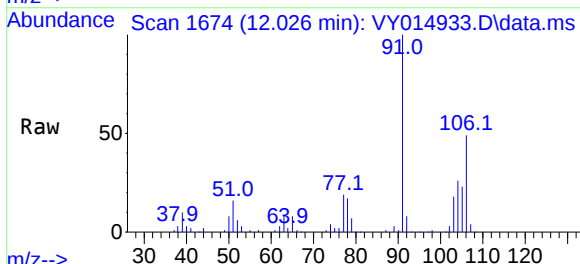
Instrument :
MSVOA_Y
ClientSampleId :
BUILDING-B-17-(0-5)

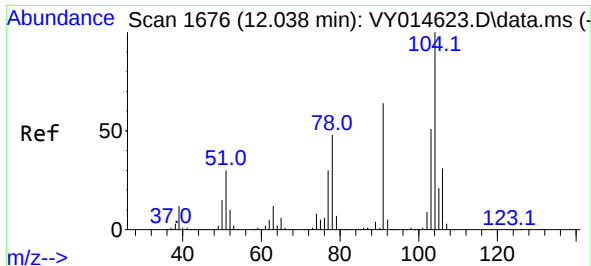
Tgt Ion:106 Resp: 32264
Ion Ratio Lower Upper
106 100
91 204.3 166.1 249.1



#69
o-Xylene
Concen: 4.236 ug/l
RT: 12.026 min Scan# 1674
Delta R.T. -0.000 min
Lab File: VY014933.D
Acq: 02 Aug 2023 16:06

Tgt Ion:106 Resp: 20871
Ion Ratio Lower Upper
106 100
91 208.7 108.1 324.3

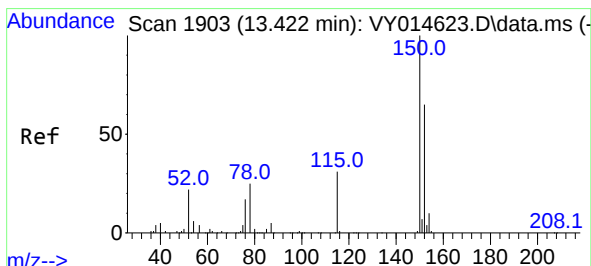
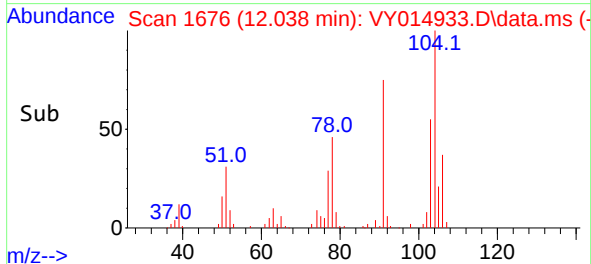
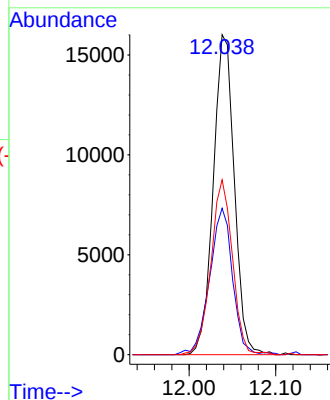
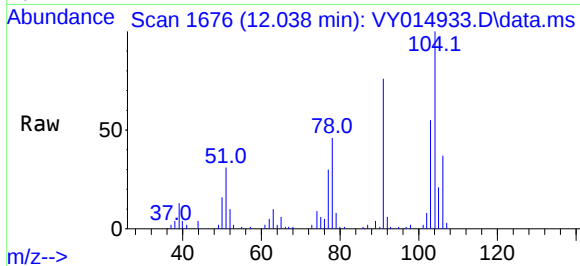




#70
Styrene
Concen: 3.259 ug/l
RT: 12.038 min Scan# 11
Delta R.T. 0.000 min
Lab File: VY014933.D
Acq: 02 Aug 2023 16:06

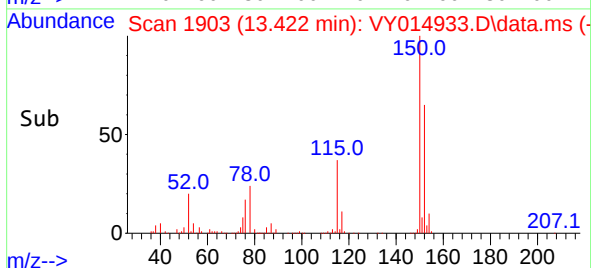
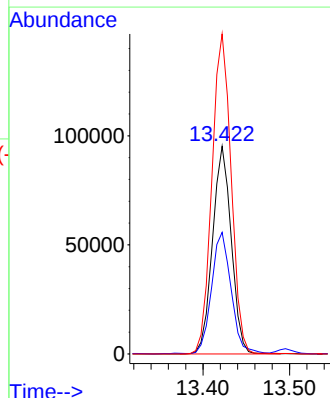
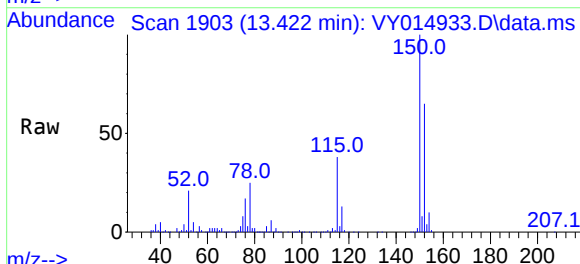
Instrument :
MSVOA_Y
ClientSampleId :
BUILDING-B-17-(0-5)

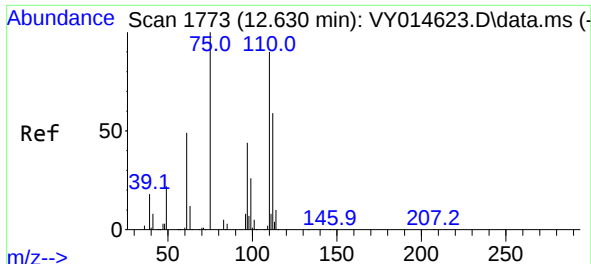
Tgt Ion:104 Resp: 27064
Ion Ratio Lower Upper
104 100
78 49.9 41.5 62.3
103 56.0 44.6 67.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.422 min Scan# 1903
Delta R.T. 0.000 min
Lab File: VY014933.D
Acq: 02 Aug 2023 16:06

Tgt Ion:152 Resp: 142862
Ion Ratio Lower Upper
152 100
115 60.8 28.8 86.5
150 158.3 0.0 348.8

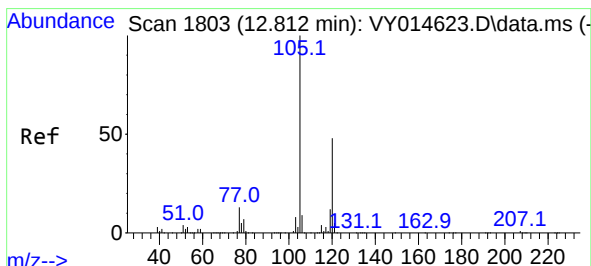
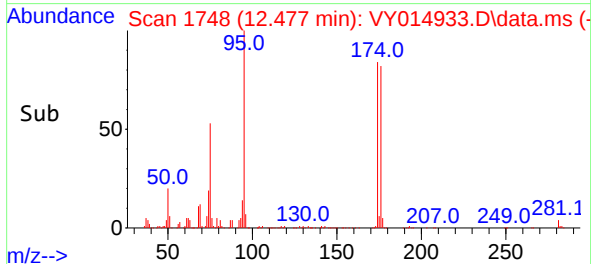
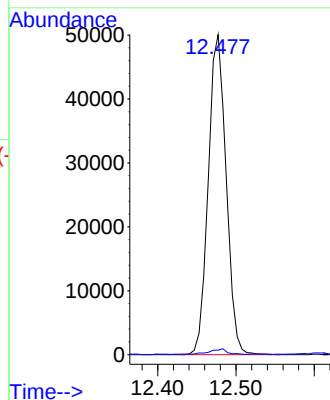
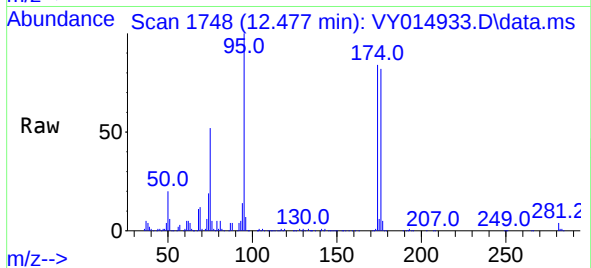




#76
1,2,3-Trichloropropane
Concen: 43.891 ug/l
RT: 12.477 min Scan# 11
Delta R.T. -0.153 min
Lab File: VY014933.D
Acq: 02 Aug 2023 16:06

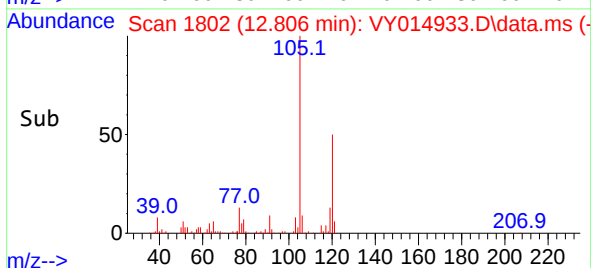
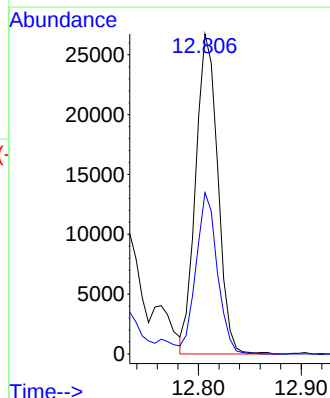
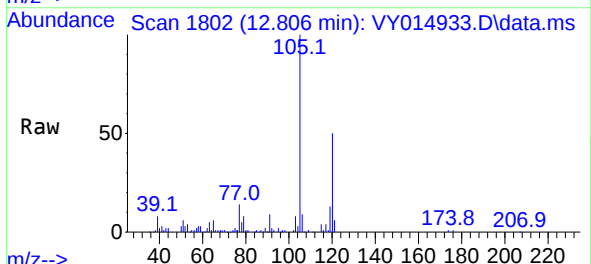
Instrument :
MSVOA_Y
ClientSampleId :
BUILDING-B-17-(0-5)

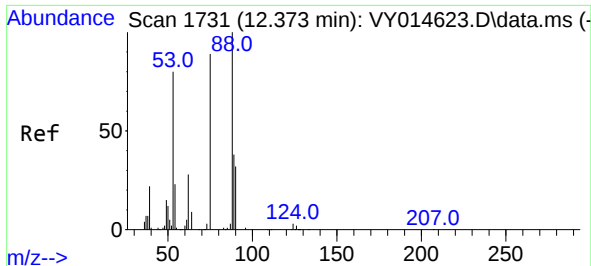
Tgt Ion: 75 Resp: 79192
Ion Ratio Lower Upper
75 100
77 2.0 0.0 0.0#



#80
1,3,5-Trimethylbenzene
Concen: 4.276 ug/l
RT: 12.806 min Scan# 1802
Delta R.T. -0.006 min
Lab File: VY014933.D
Acq: 02 Aug 2023 16:06

Tgt Ion: 105 Resp: 39946
Ion Ratio Lower Upper
105 100
120 48.6 23.9 71.7

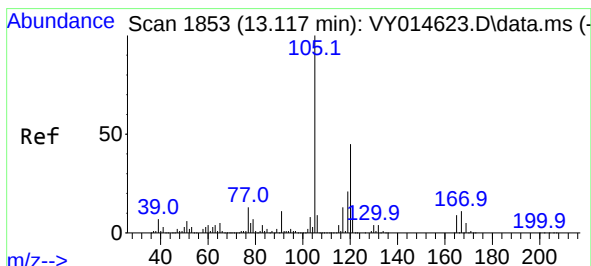
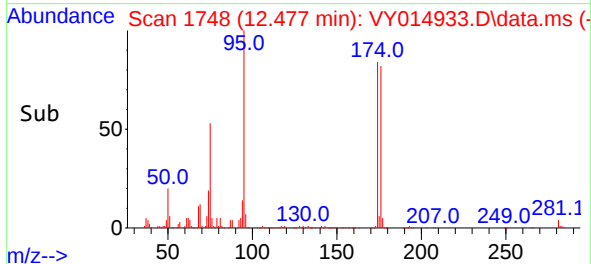
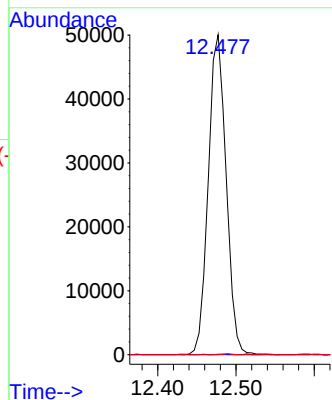
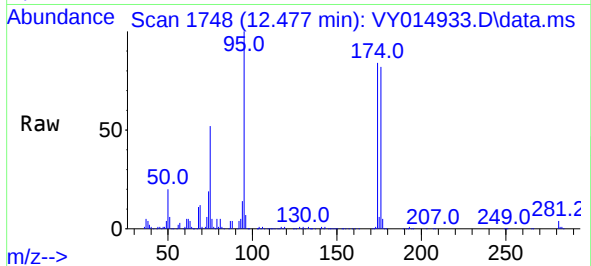




#81
trans-1,4-Dichloro-2-butene
Concen: 84.980 ug/l
RT: 12.477 min Scan# 1731
Delta R.T. 0.104 min
Lab File: VY014933.D
Acq: 02 Aug 2023 16:06

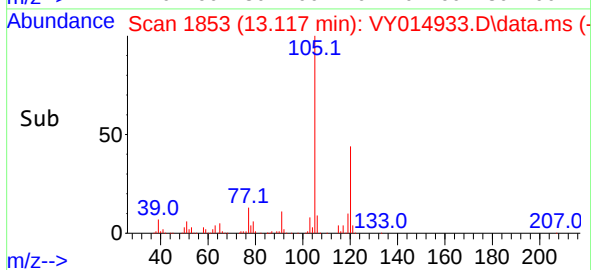
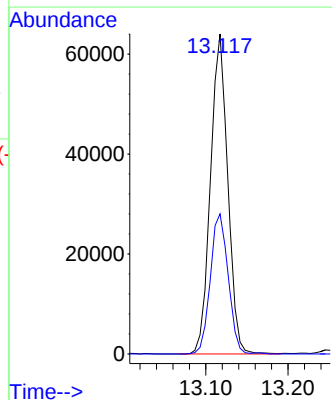
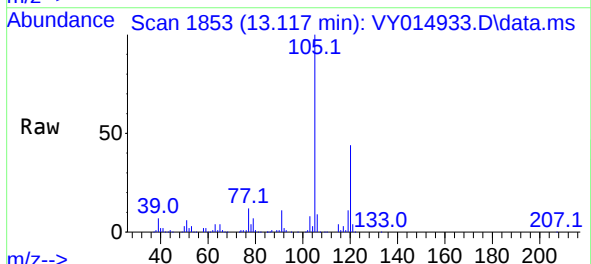
Instrument :
MSVOA_Y
ClientSampleId :
BUILDING-B-17-(0-5)

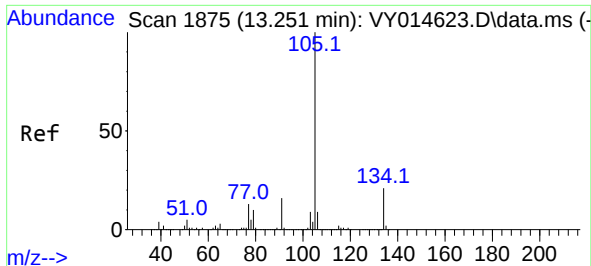
Tgt Ion: 75 Resp: 79192
Ion Ratio Lower Upper
75 100
53 0.1 77.8 116.8#
89 0.1 37.4 56.0#



#84
1,2,4-Trimethylbenzene
Concen: 10.186 ug/l
RT: 13.117 min Scan# 1853
Delta R.T. 0.000 min
Lab File: VY014933.D
Acq: 02 Aug 2023 16:06

Tgt Ion: 105 Resp: 93391
Ion Ratio Lower Upper
105 100
120 45.1 22.2 66.6

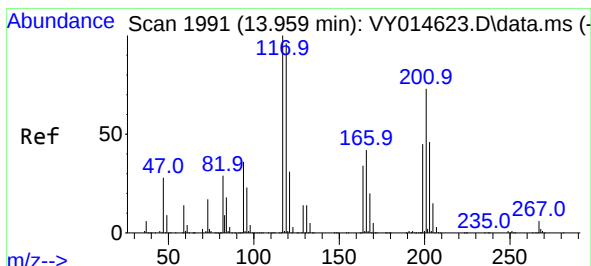
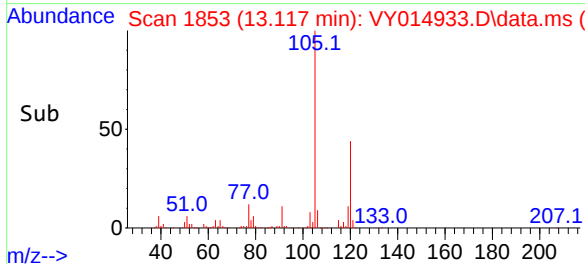
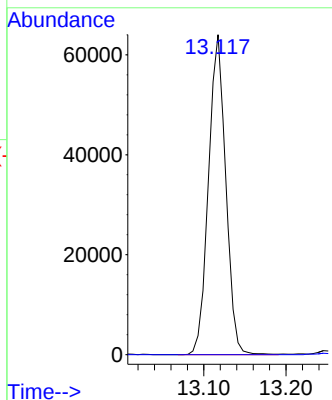
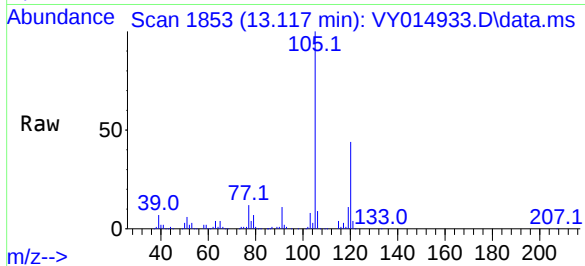




#85
 sec-Butylbenzene
 Concen: 7.682 ug/l
 RT: 13.117 min Scan# 11
 Delta R.T. -0.134 min
 Lab File: VY014933.D
 Acq: 02 Aug 2023 16:06

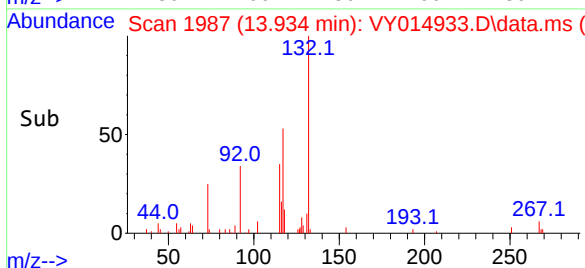
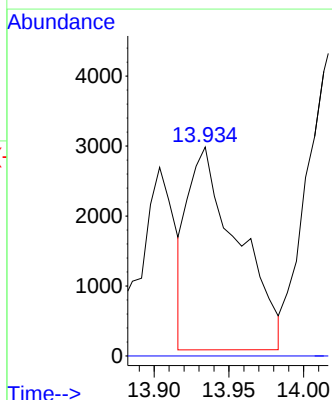
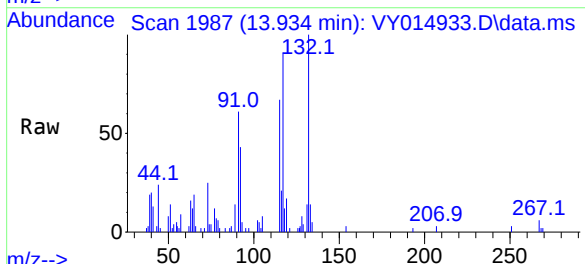
Instrument :
 MSVOA_Y
 ClientSampleId :
 BUILDING-B-17-(0-5)

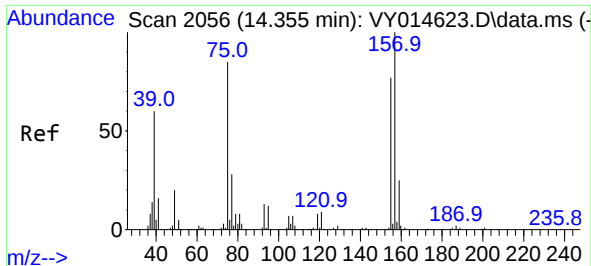
Tgt Ion:105 Resp: 93391
 Ion Ratio Lower Upper
 105 100
 134 0.0 10.2 30.6#



#90
 Hexachloroethane
 Concen: 3.330 ug/l
 RT: 13.934 min Scan# 1987
 Delta R.T. -0.025 min
 Lab File: VY014933.D
 Acq: 02 Aug 2023 16:06

Tgt Ion:117 Resp: 6788
 Ion Ratio Lower Upper
 117 100
 201 0.0 41.6 124.8#

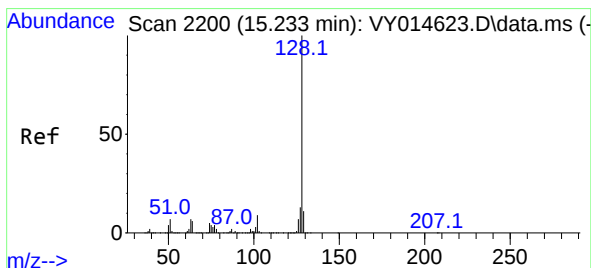
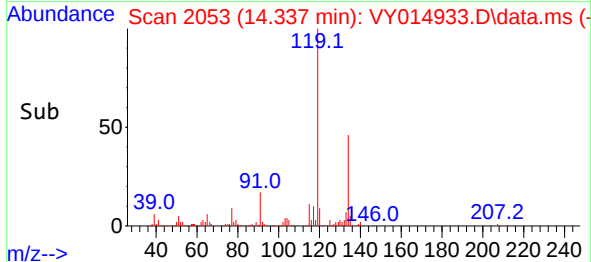
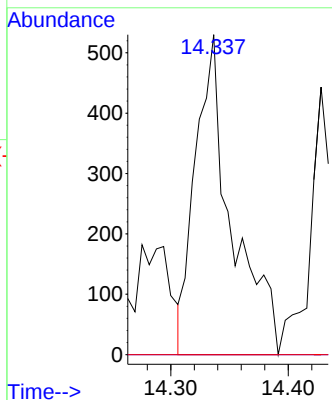
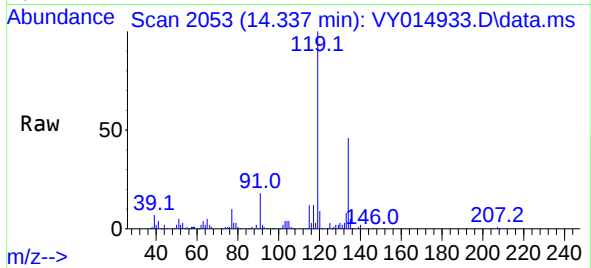




#92
1,2-Dibromo-3-Chloropropane
Concen: 2.327 ug/l
RT: 14.337 min Scan# 2053
Delta R.T. -0.018 min
Lab File: VY014933.D
Acq: 02 Aug 2023 16:06

Instrument :
MSVOA_Y
ClientSampleId :
BUILDING-B-17-(0-5)

Tgt Ion: 75 Resp: 1135
Ion Ratio Lower Upper
75 100
155 0.0 41.5 124.6#
157 0.0 51.8 155.5#



#95
Naphthalene
Concen: 584.925 ug/l
RT: 15.233 min Scan# 2200
Delta R.T. -0.000 min
Lab File: VY014933.D
Acq: 02 Aug 2023 16:06

Tgt Ion:128 Resp: 3938720
Ion Ratio Lower Upper
128 100
127 12.8 10.8 16.2
129 11.2 8.6 13.0

