

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY021522\
 Data File : VY007502.D
 Acq On : 15 Feb 2022 14:02
 Operator : SY/MD
 Sample : N1535-01
 Misc : 5.10g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :

Quant Time: Feb 16 01:40:08 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y021422S.M
 Quant Title : SW846 8260
 QLast Update : Tue Feb 15 09:34:50 2022
 Response via : Initial Calibration

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

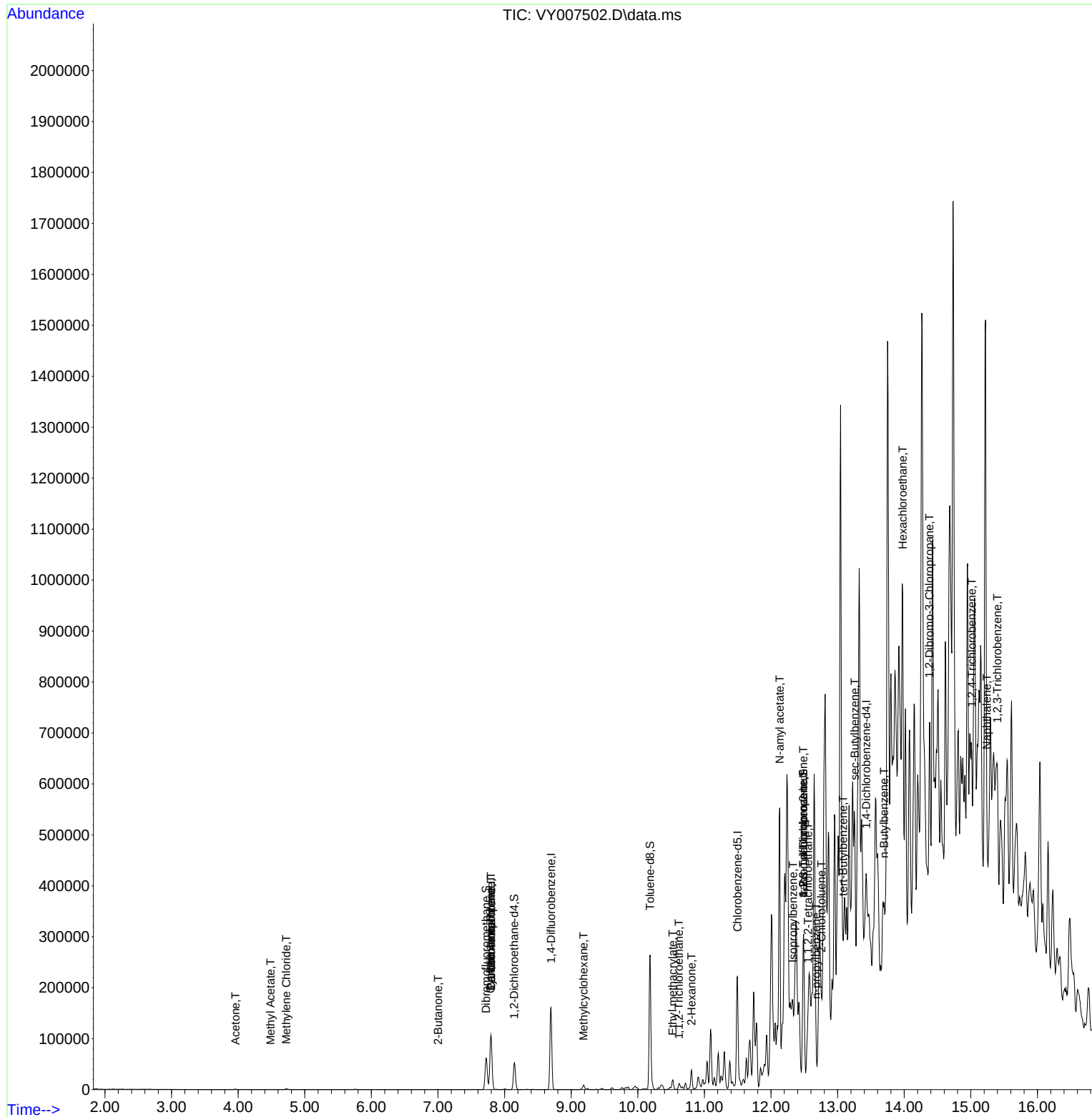
Internal Standards						
1) Pentafluorobenzene	7.795	168	81606	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.697	114	140185	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.496	117	122261	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.428	152	49344	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.142	65	42262	46.907	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	93.820%
35) Dibromofluoromethane	7.722	113	44600	50.450	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	100.900%
50) Toluene-d8	10.185	98	166076	49.461	ug/l	0.00
Spiked Amount	50.000	Range	49 - 140	Recovery	=	98.920%
62) 4-Bromofluorobenzene	12.483	95	59661	52.402	ug/l	0.00
Spiked Amount	50.000	Range	25 - 144	Recovery	=	104.800%
Target Compounds						
					Qvalue	
3) Chloromethane	2.119	50	503	Below Cal		90
5) Bromomethane	2.680	94	324	Below Cal		91
16) Acetone	3.960	43	1661	6.949	ug/l #	61
18) Methyl Acetate	4.485	43	98	1.548	ug/l #	56
20) Methylene Chloride	4.722	84	1270	1.296	ug/l #	76
25) 2-Butanone	7.002	43	336	1.135	ug/l #	54
31) Cyclohexane	7.789	56	2021	1.268	ug/l #	1
36) 1,1-Dichloropropene	7.795	75	6014	4.199	ug/l #	51
38) Carbon Tetrachloride	7.795	117	8891	5.463	ug/l #	15
39) Methylcyclohexane	9.185	83	3555	1.912	ug/l #	85
55) 1,1,2-Trichloroethane	10.618	97	4734	6.138	ug/l #	19
56) Ethyl methacrylate	10.526	69	2081	2.007	ug/l #	35
59) 2-Hexanone	10.807	43	13522	28.693	ug/l #	33
73) Isopropylbenzene	12.331	105	4517	1.033	ug/l	94
74) N-amyl acetate	12.130	43	100226	101.273	ug/l #	68
75) 1,1,2,2-Tetrachloroethane	12.556	83	13005	17.369	ug/l #	26
76) 1,2,3-Trichloropropane	12.483	75	27510	48.251	ug/l #	100
78) n-propylbenzene	12.678	91	16819	3.197	ug/l	97
79) 2-Chlorotoluene	12.758	91	3358	1.158	ug/l #	61
81) trans-1,4-Dichloro-2-b...	12.483	75	27510	100.287	ug/l #	15
83) tert-Butylbenzene	13.081	119	3942	1.246	ug/l	83
85) sec-Butylbenzene	13.257	105	73991	15.860	ug/l	84
89) n-Butylbenzene	13.696	91	32909	9.006	ug/l #	69
90) Hexachloroethane	13.977	117	15840	21.572	ug/l #	6
92) 1,2-Dibromo-3-Chloropr...	14.379	75	1231	9.684	ug/l #	18
93) 1,2,4-Trichlorobenzene	15.013	180	1783	1.850	ug/l #	1
95) Naphthalene	15.239	128	10457	4.981	ug/l #	69
96) 1,2,3-Trichlorobenzene	15.397	180	4319	5.183	ug/l #	1

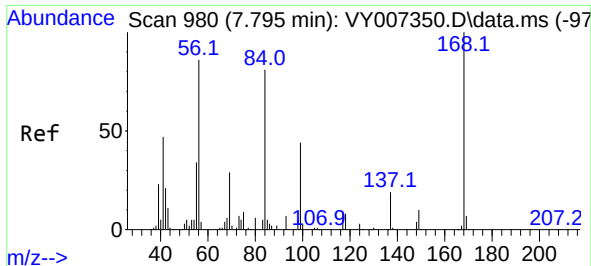
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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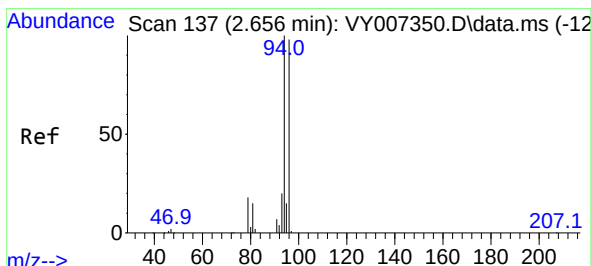
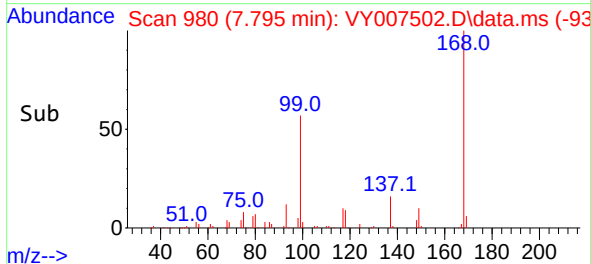
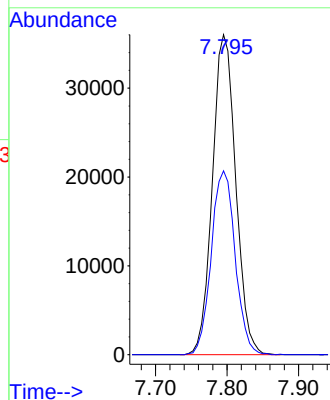
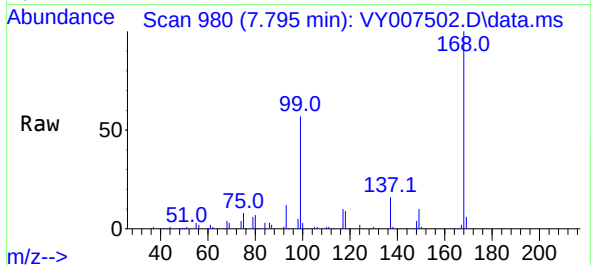




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.795 min Scan# 91
Delta R.T. -0.000 min
Lab File: VY007502.D
Acq: 15 Feb 2022 14:02

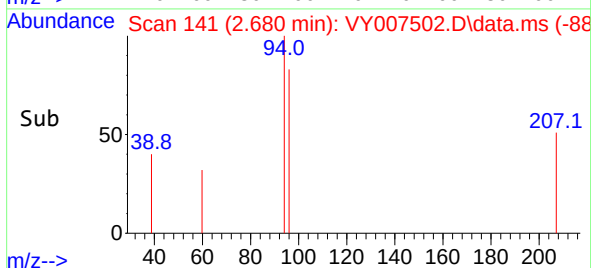
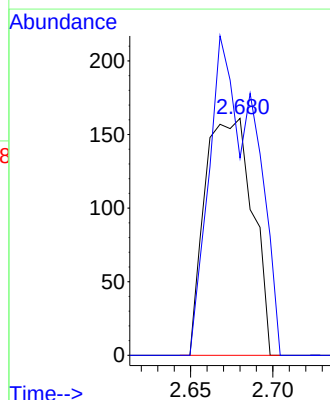
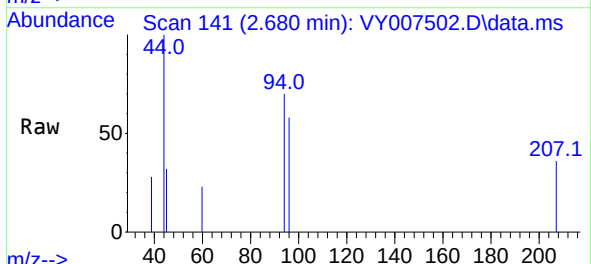
Instrument :
MSVOA_Y
ClientSampleId :

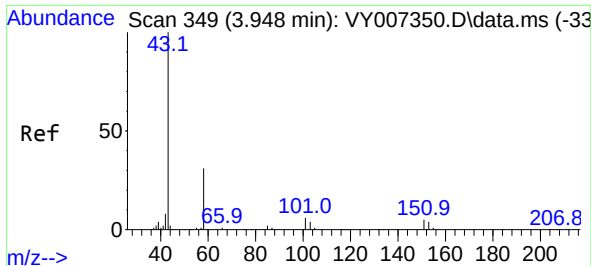
Tgt Ion:168 Resp: 81606
Ion Ratio Lower Upper
168 100
99 57.5 46.9 70.3



#5
Bromomethane
Concen: Below Cal
RT: 2.680 min Scan# 141
Delta R.T. 0.024 min
Lab File: VY007502.D
Acq: 15 Feb 2022 14:02

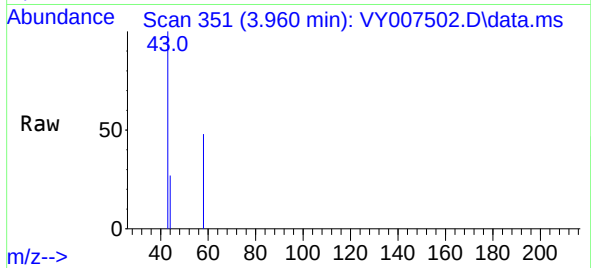
Tgt Ion: 94 Resp: 324
Ion Ratio Lower Upper
94 100
96 83.2 73.5 110.3



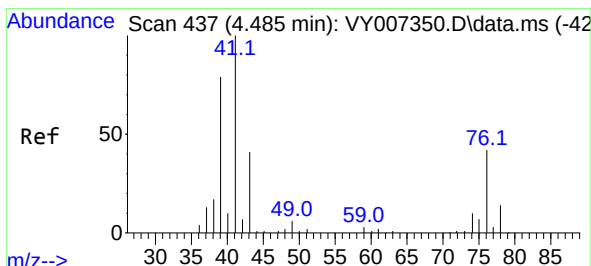
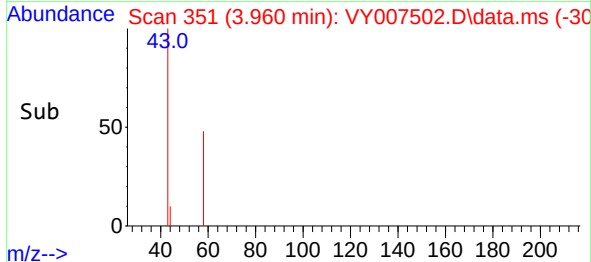
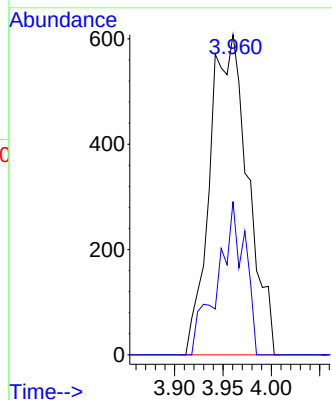


#16
Acetone
Concen: 6.949 ug/l
RT: 3.960 min Scan# 31
Delta R.T. 0.012 min
Lab File: VY007502.D
Acq: 15 Feb 2022 14:02

Instrument :
MSVOA_Y
ClientSampleId :

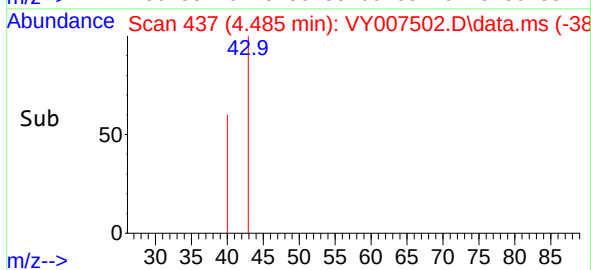
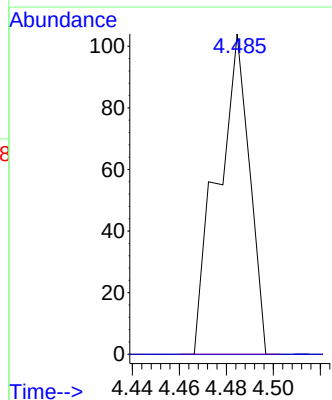
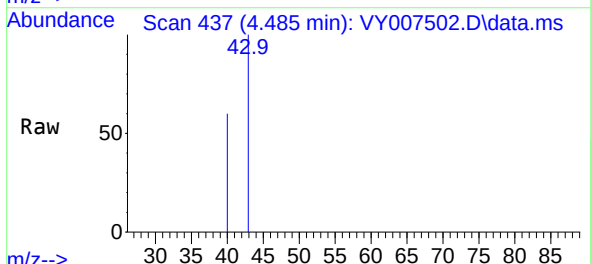


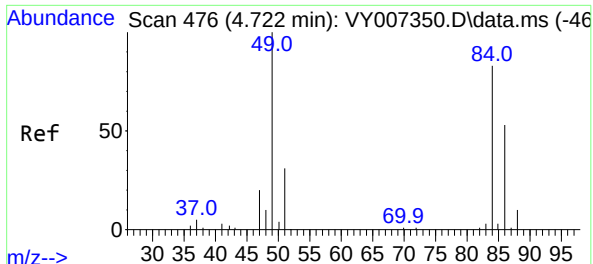
Tgt Ion: 43 Resp: 1661
Ion Ratio Lower Upper
43 100
58 47.9 22.0 33.0#



#18
Methyl Acetate
Concen: 1.548 ug/l
RT: 4.485 min Scan# 437
Delta R.T. -0.000 min
Lab File: VY007502.D
Acq: 15 Feb 2022 14:02

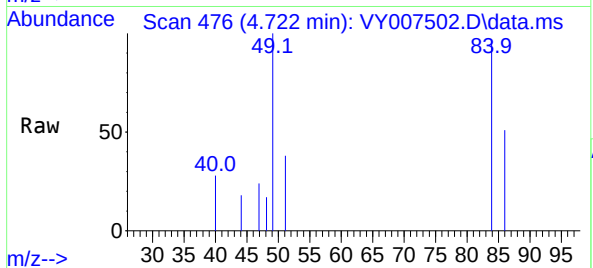
Tgt Ion: 43 Resp: 98
Ion Ratio Lower Upper
43 100
74 0.0 16.6 24.8#





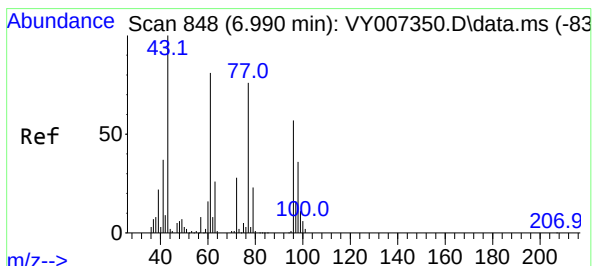
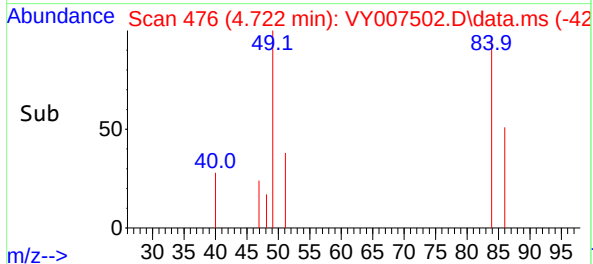
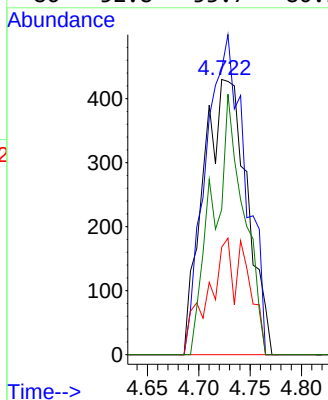
#20
Methylene Chloride
Concen: 1.296 ug/l
RT: 4.722 min Scan# 41
Delta R.T. 0.000 min
Lab File: VY007502.D
Acq: 15 Feb 2022 14:02

Instrument :
MSVOA_Y
ClientSampleId :



Tgt Ion: 84 Resp: 1270

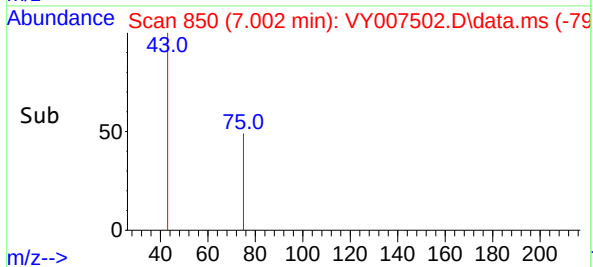
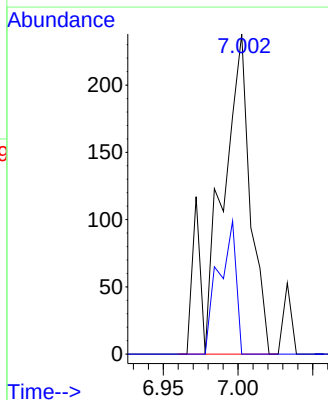
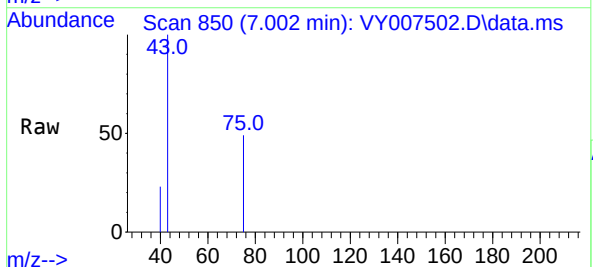
Ion	Ratio	Lower	Upper
84	100		
49	103.7	114.4	171.6#
51	39.1	35.3	52.9
86	52.8	53.7	80.5#

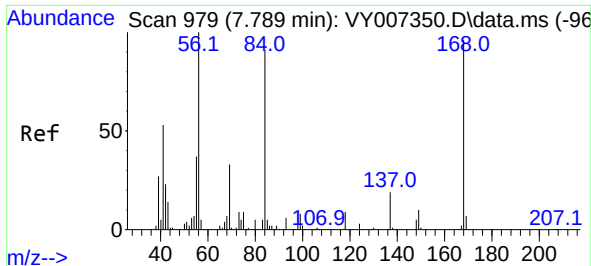


#25
2-Butanone
Concen: 1.135 ug/l
RT: 7.002 min Scan# 850
Delta R.T. 0.012 min
Lab File: VY007502.D
Acq: 15 Feb 2022 14:02

Tgt Ion: 43 Resp: 336

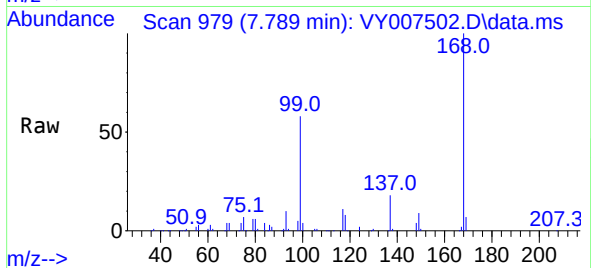
Ion	Ratio	Lower	Upper
43	100		
72	0.0	17.7	26.5#



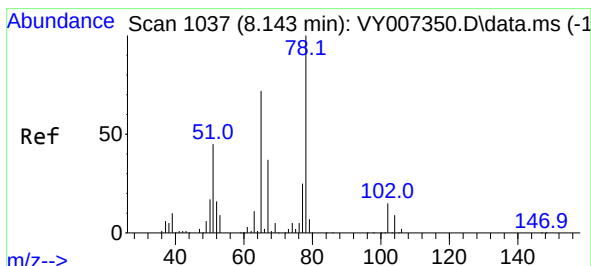
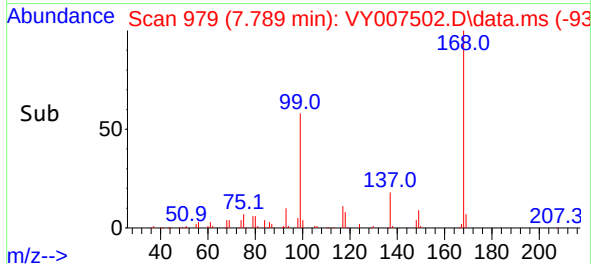
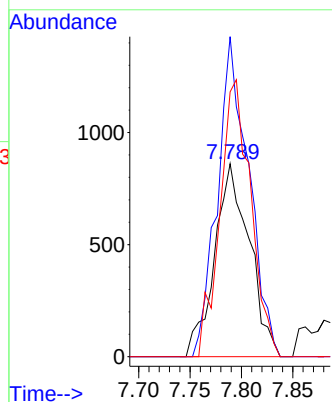


#31
Cyclohexane
Concen: 1.268 ug/l
RT: 7.789 min Scan# 91
Delta R.T. -0.000 min
Lab File: VY007502.D
Acq: 15 Feb 2022 14:02

Instrument :
MSVOA_Y
ClientSampleId :

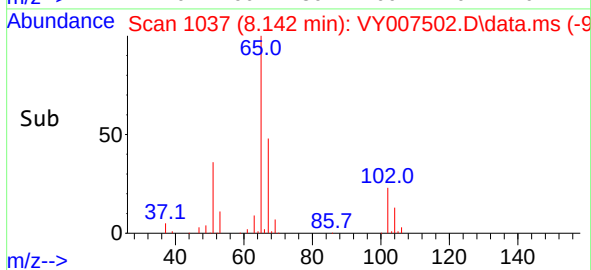
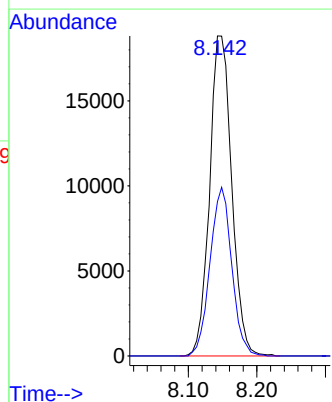
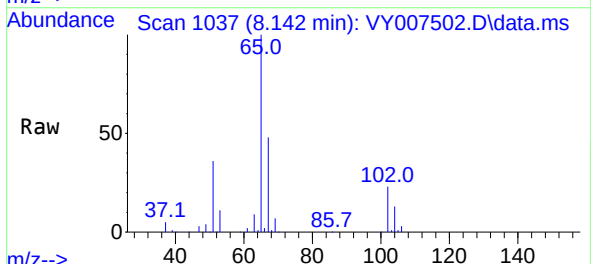


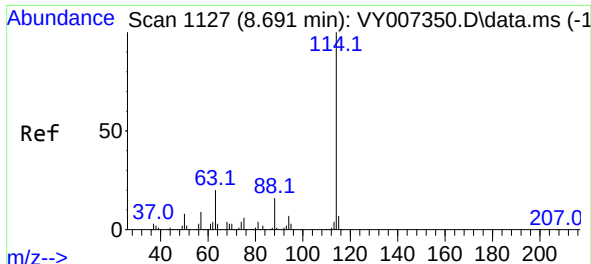
Tgt Ion: 56 Resp: 2021
Ion Ratio Lower Upper
56 100
69 165.9 26.7 40.1#
84 137.3 67.2 100.8#



#33
1,2-Dichloroethane-d4
Concen: 46.907 ug/l
RT: 8.142 min Scan# 1037
Delta R.T. -0.001 min
Lab File: VY007502.D
Acq: 15 Feb 2022 14:02

Tgt Ion: 65 Resp: 42262
Ion Ratio Lower Upper
65 100
67 51.7 0.0 99.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.697 min Scan# 11

Delta R.T. 0.006 min

Lab File: VY007502.D

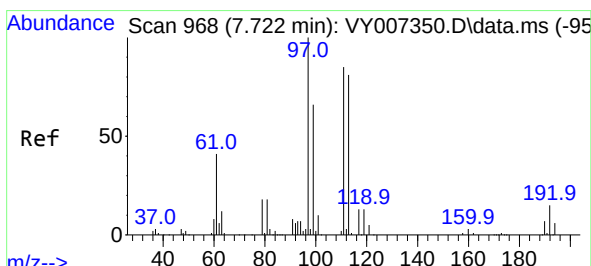
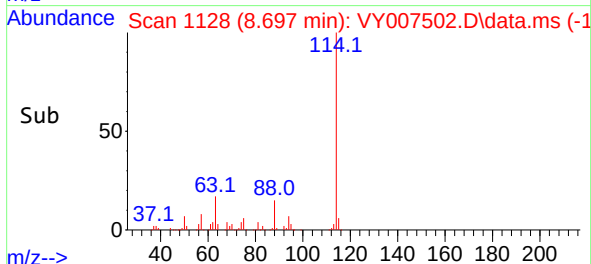
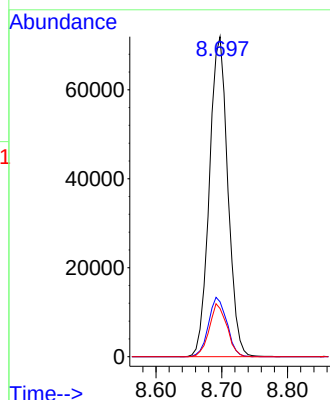
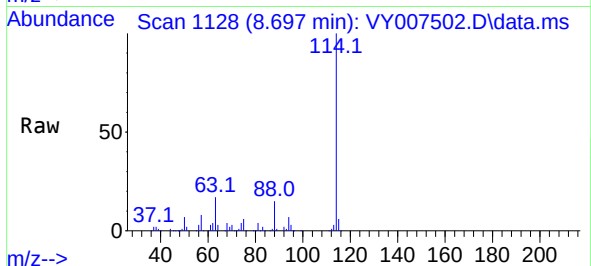
Acq: 15 Feb 2022 14:02

Instrument :

MSVOA_Y

ClientSampleId :

Tgt Ion:114	Resp:	140185
Ion	Ratio	Lower Upper
114	100	
63	17.2	0.0 43.2
88	15.1	0.0 31.8



#35

Dibromofluoromethane

Concen: 50.450 ug/l

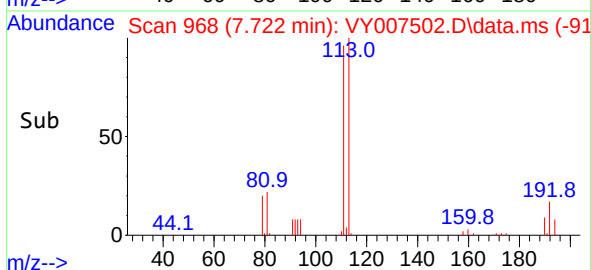
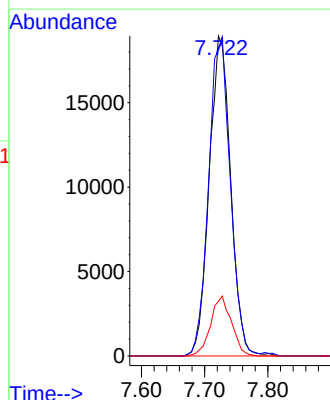
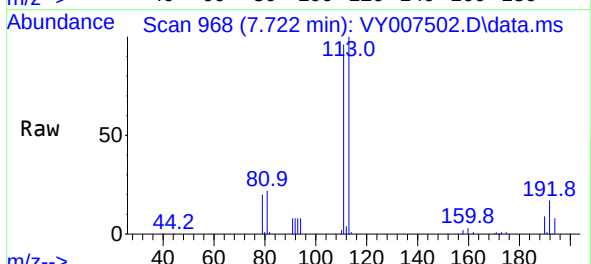
RT: 7.722 min Scan# 968

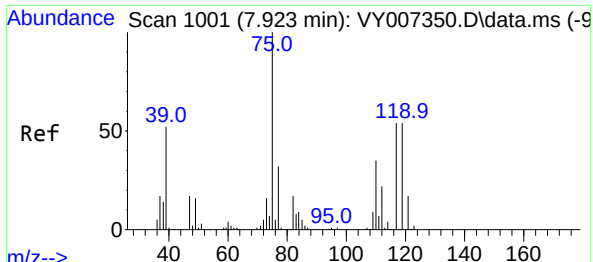
Delta R.T. -0.000 min

Lab File: VY007502.D

Acq: 15 Feb 2022 14:02

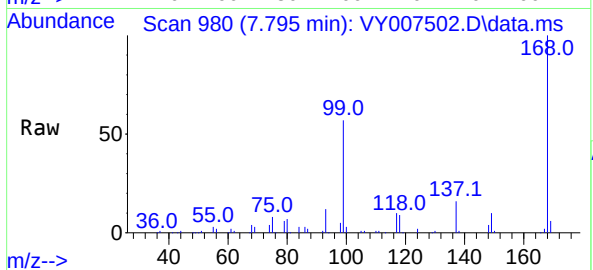
Tgt Ion:113	Resp:	44600
Ion	Ratio	Lower Upper
113	100	
111	100.8	82.6 124.0
192	18.2	17.6 26.4



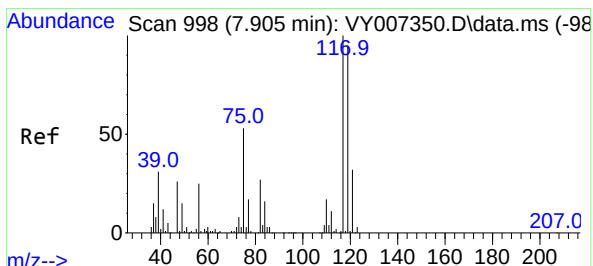
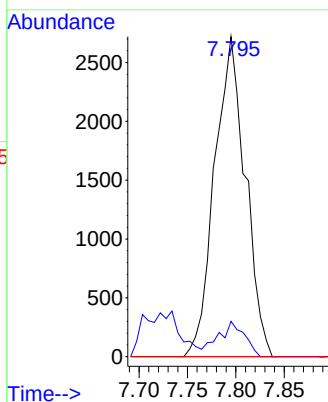
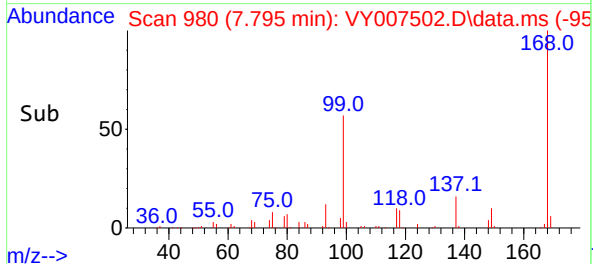


#36
1,1-Dichloropropene
Concen: 4.199 ug/l
RT: 7.795 min Scan# 91
Delta R.T. -0.128 min
Lab File: VY007502.D
Acq: 15 Feb 2022 14:02

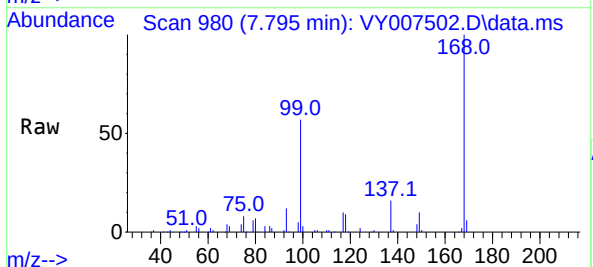
Instrument :
MSVOA_Y
ClientSampleId :



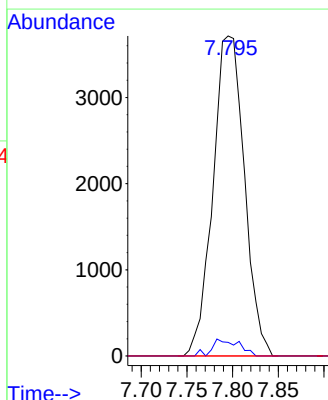
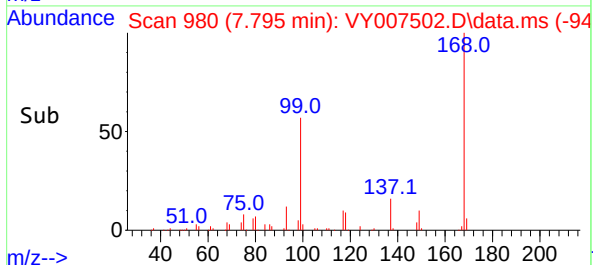
Tgt Ion: 75 Resp: 6014
Ion Ratio Lower Upper
75 100
110 9.4 17.1 51.2#
77 0.0 24.4 36.6#

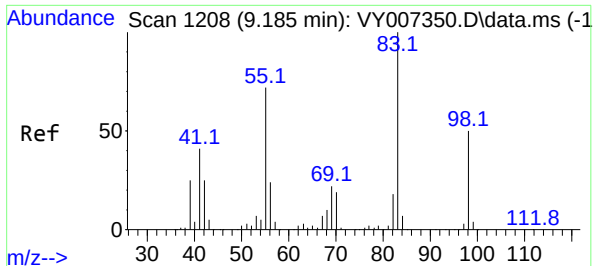


#38
Carbon Tetrachloride
Concen: 5.463 ug/l
RT: 7.795 min Scan# 980
Delta R.T. -0.110 min
Lab File: VY007502.D
Acq: 15 Feb 2022 14:02



Tgt Ion: 117 Resp: 8891
Ion Ratio Lower Upper
117 100
119 4.3 77.9 116.9#
121 0.0 24.8 37.2#





#39

Methylcyclohexane

Concen: 1.912 ug/l

RT: 9.185 min Scan# 1208

Delta R.T. -0.000 min

Lab File: VY007502.D

Acq: 15 Feb 2022 14:02

Instrument :

MSVOA_Y

ClientSampleId :

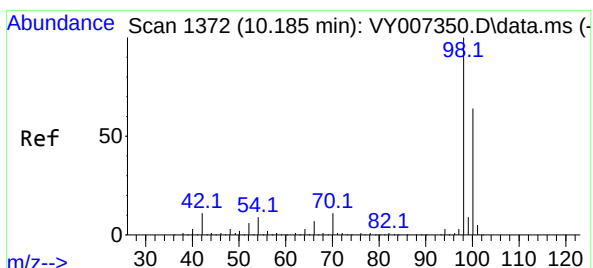
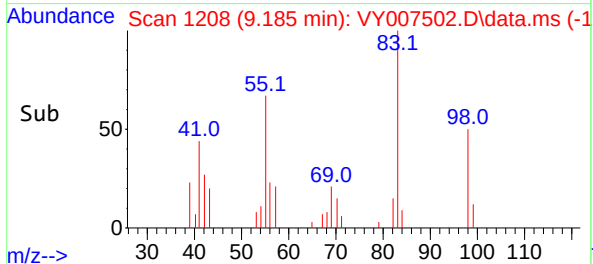
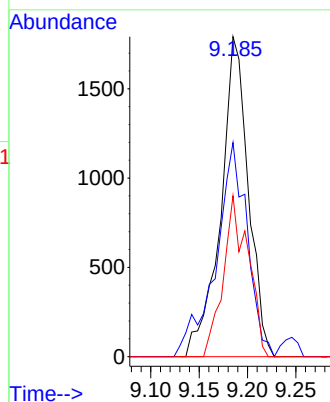
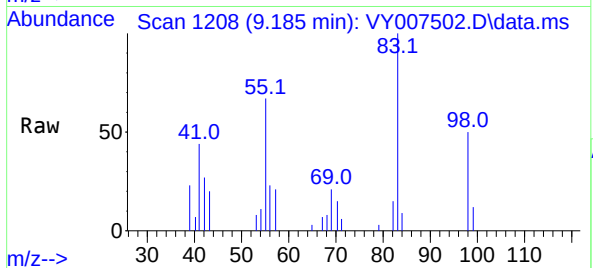
Tgt Ion: 83 Resp: 3555

Ion Ratio Lower Upper

83 100

55 63.5 66.5 99.7#

98 50.3 37.9 56.9



#50

Toluene-d8

Concen: 49.461 ug/l

RT: 10.185 min Scan# 1372

Delta R.T. -0.000 min

Lab File: VY007502.D

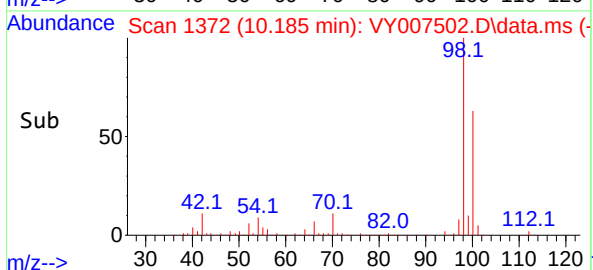
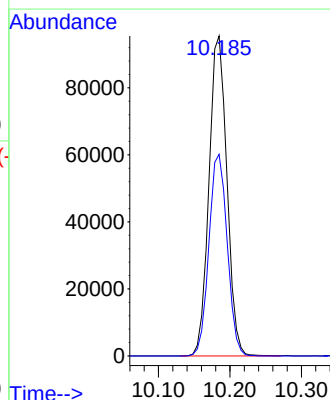
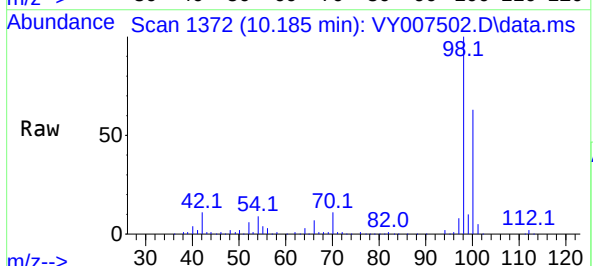
Acq: 15 Feb 2022 14:02

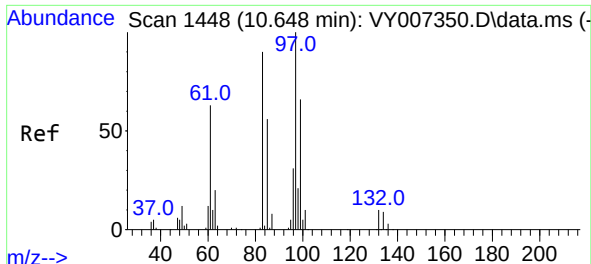
Tgt Ion: 98 Resp: 166076

Ion Ratio Lower Upper

98 100

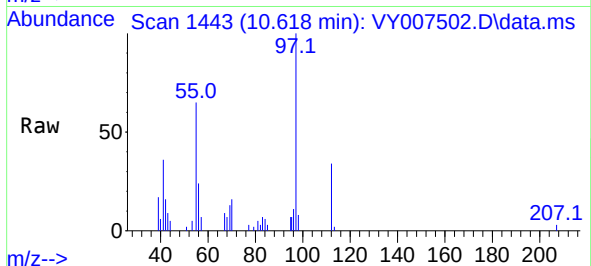
100 64.4 50.2 75.2



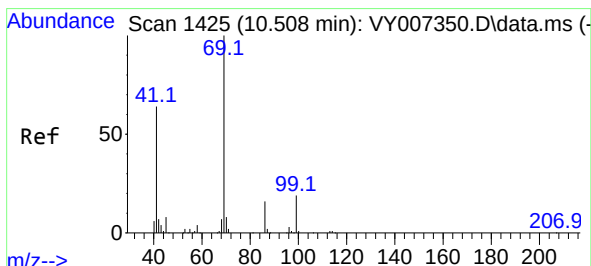
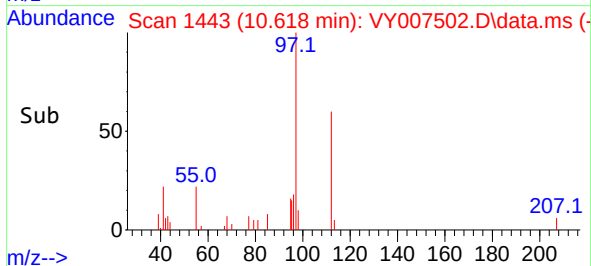
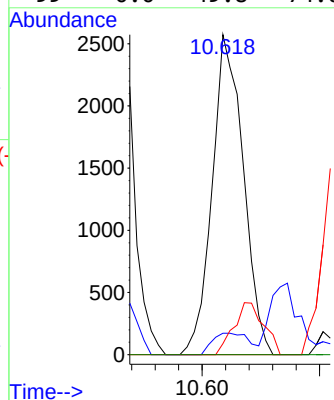


#55
1,1,2-Trichloroethane
Concen: 6.138 ug/l
RT: 10.618 min Scan# 1443
Delta R.T. -0.030 min
Lab File: VY007502.D
Acq: 15 Feb 2022 14:02

Instrument :
MSVOA_Y
ClientSampleId :

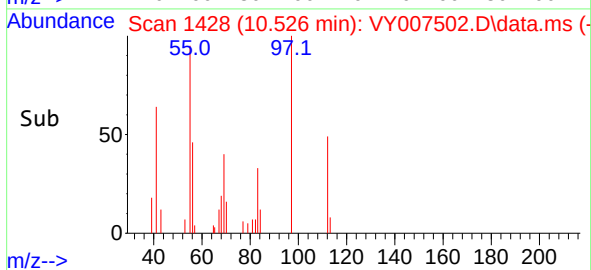
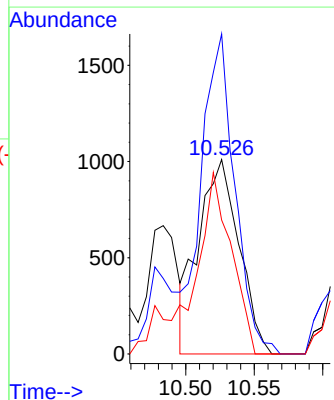
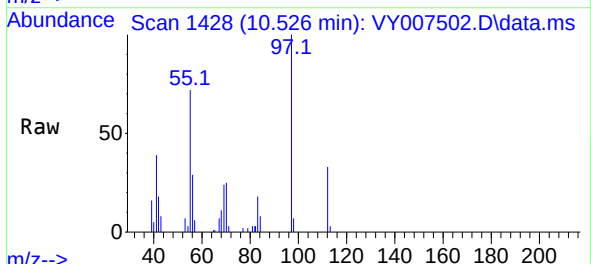


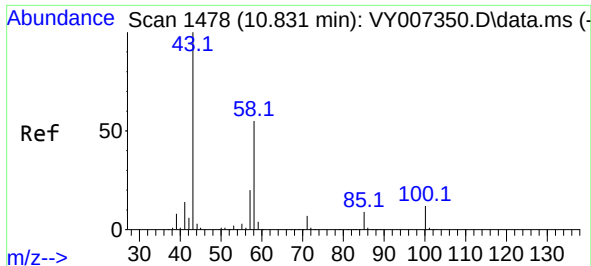
Tgt Ion: 97	Resp: 4734
Ion Ratio	Lower Upper
97 100	
83 6.7	69.8 104.8#
85 3.5	44.3 66.5#
99 0.0	49.8 74.6#



#56
Ethyl methacrylate
Concen: 2.007 ug/l
RT: 10.526 min Scan# 1428
Delta R.T. 0.018 min
Lab File: VY007502.D
Acq: 15 Feb 2022 14:02

Tgt Ion: 69	Resp: 2081
Ion Ratio	Lower Upper
69 100	
41 135.1	63.4 95.0#
39 89.1	35.8 53.8#

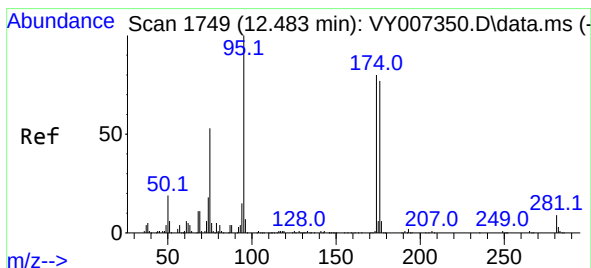
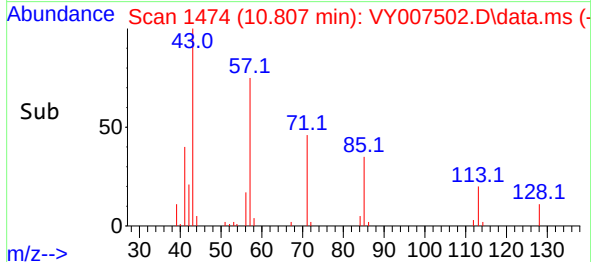
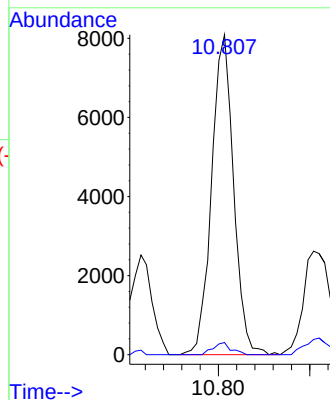
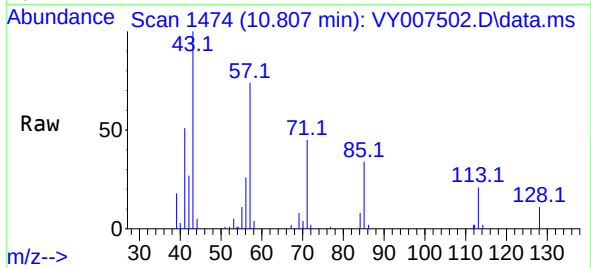




#59
2-Hexanone
Concen: 28.693 ug/l
RT: 10.807 min Scan# 1478
Delta R.T. -0.024 min
Lab File: VY007502.D
Acq: 15 Feb 2022 14:02

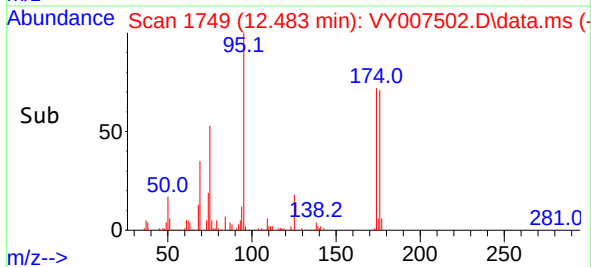
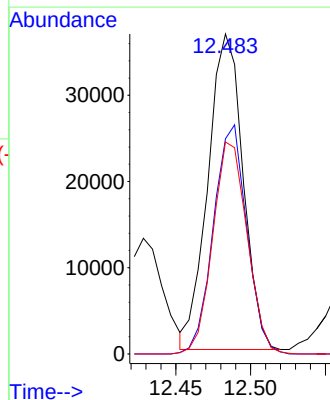
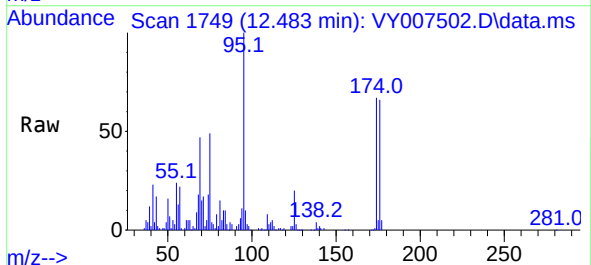
Instrument :
MSVOA_Y
ClientSampleId :

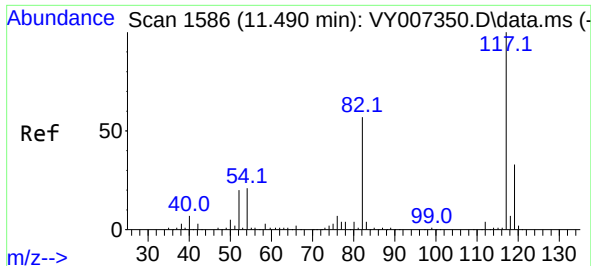
Tgt Ion: 43 Resp: 13522
Ion Ratio Lower Upper
43 100
58 3.1 24.4 73.4#



#62
4-Bromofluorobenzene
Concen: 52.402 ug/l
RT: 12.483 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VY007502.D
Acq: 15 Feb 2022 14:02

Tgt Ion: 95 Resp: 59661
Ion Ratio Lower Upper
95 100
174 69.2 0.0 177.0
176 66.0 0.0 175.8

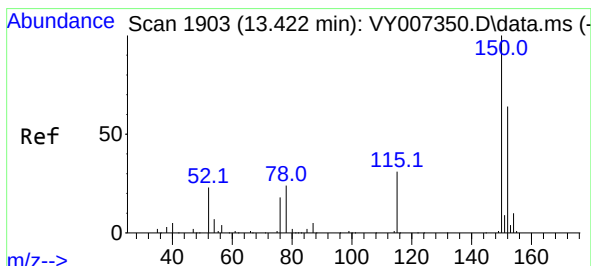
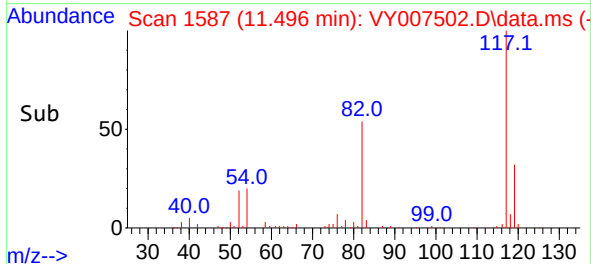
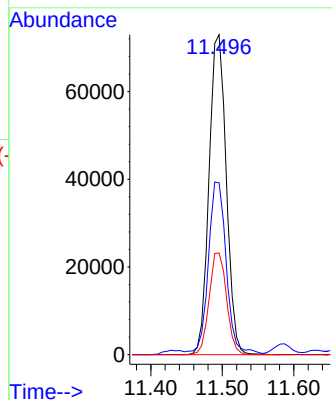
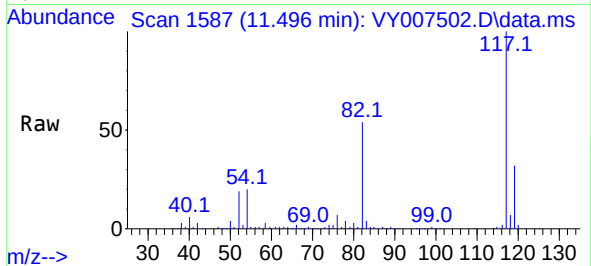




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.496 min Scan# 11
Delta R.T. 0.006 min
Lab File: VY007502.D
Acq: 15 Feb 2022 14:02

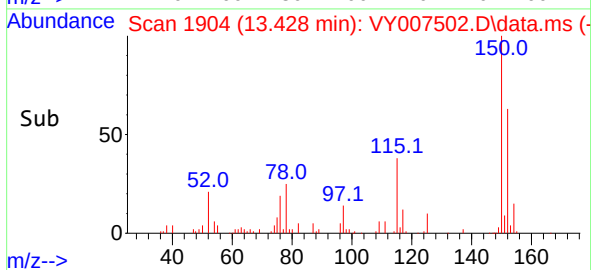
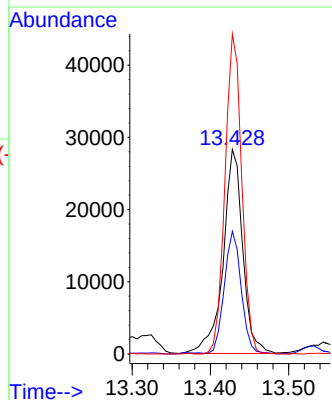
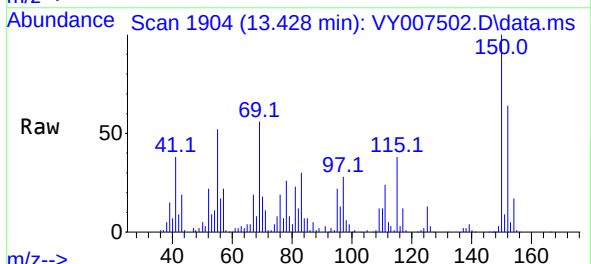
Instrument :
MSVOA_Y
ClientSampleId :

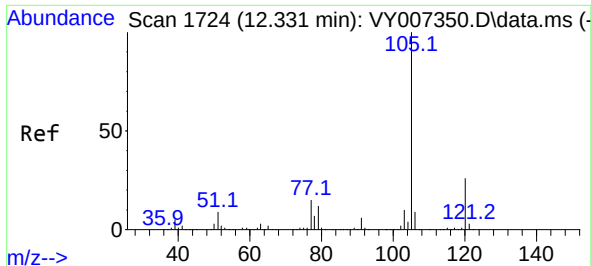
Tgt Ion:117 Resp: 122261
Ion Ratio Lower Upper
117 100
82 52.4 43.0 64.4
119 31.8 25.4 38.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.428 min Scan# 1904
Delta R.T. 0.006 min
Lab File: VY007502.D
Acq: 15 Feb 2022 14:02

Tgt Ion:152 Resp: 49344
Ion Ratio Lower Upper
152 100
115 51.9 28.2 84.7
150 133.9 0.0 347.6

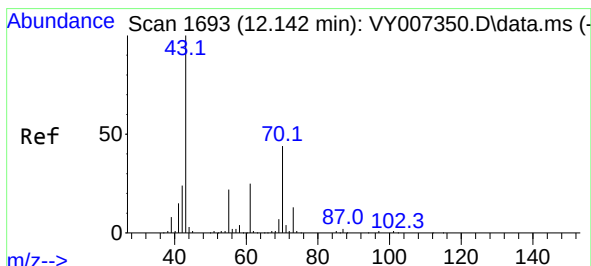
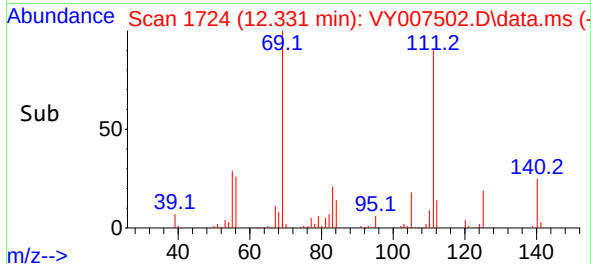
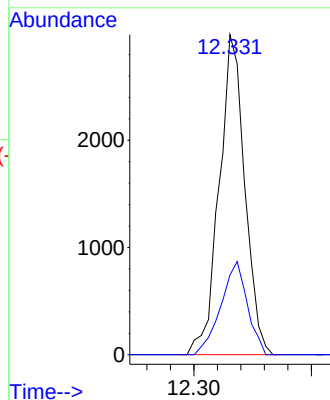
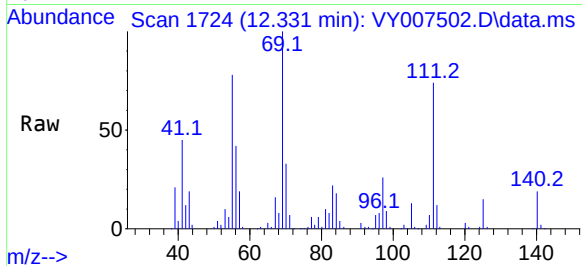




#73
Isopropylbenzene
Concen: 1.033 ug/l
RT: 12.331 min Scan# 11
Delta R.T. -0.000 min
Lab File: VY007502.D
Acq: 15 Feb 2022 14:02

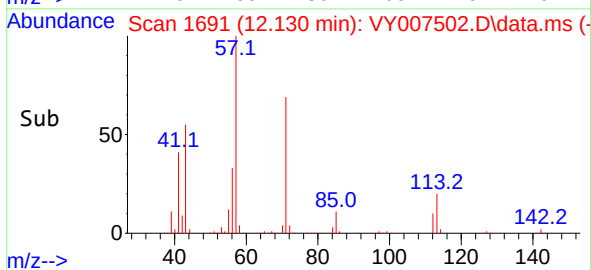
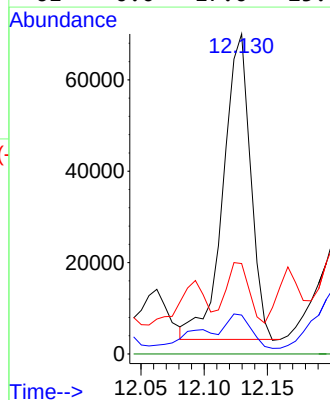
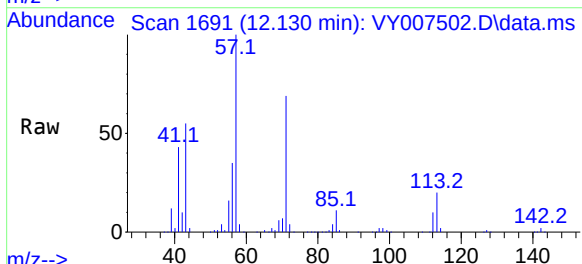
Instrument :
MSVOA_Y
ClientSampleId :

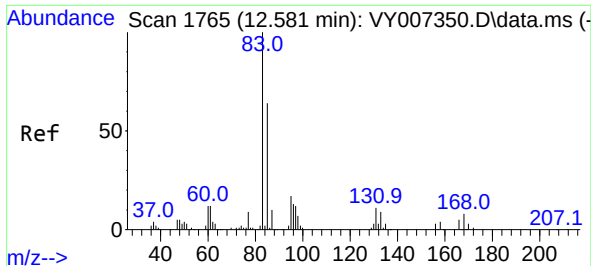
Tgt Ion:105 Resp: 4517
Ion Ratio Lower Upper
105 100
120 30.1 13.4 40.2



#74
N-ethyl acetate
Concen: 101.273 ug/l
RT: 12.130 min Scan# 1691
Delta R.T. -0.012 min
Lab File: VY007502.D
Acq: 15 Feb 2022 14:02

Tgt Ion: 43 Resp: 100226
Ion Ratio Lower Upper
43 100
70 10.1 28.7 43.1#
55 21.5 17.3 25.9
61 0.0 17.0 25.6#

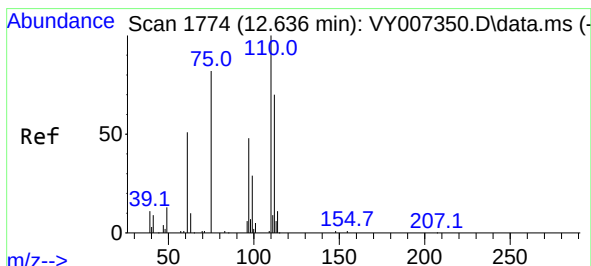
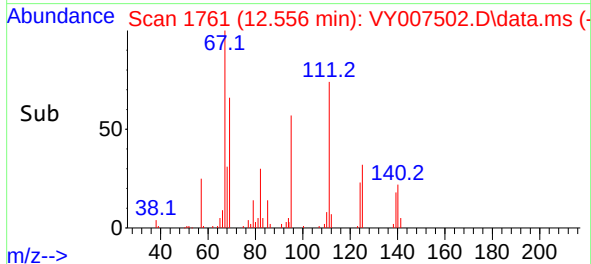
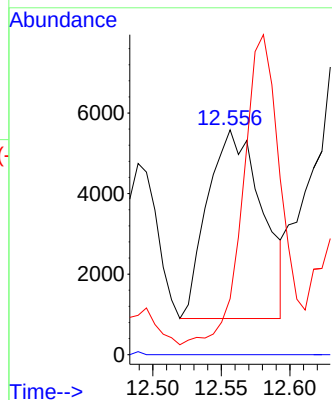
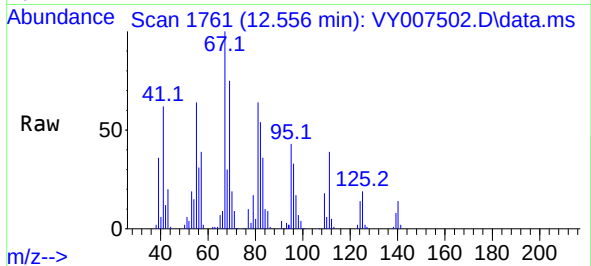




#75
1,1,2,2-Tetrachloroethane
Concen: 17.369 ug/l
RT: 12.556 min Scan# 1761
Delta R.T. -0.025 min
Lab File: VY007502.D
Acq: 15 Feb 2022 14:02

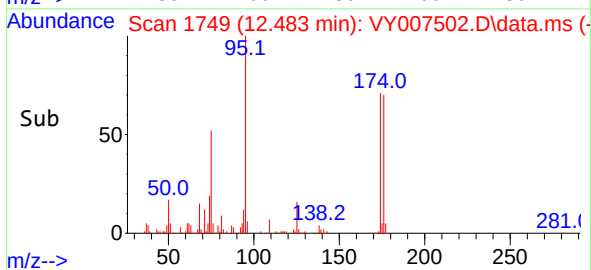
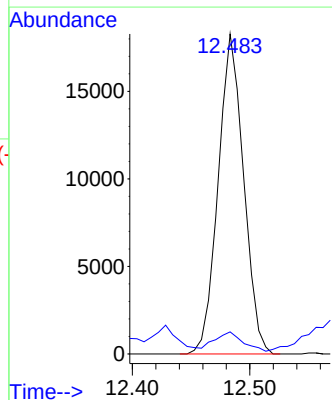
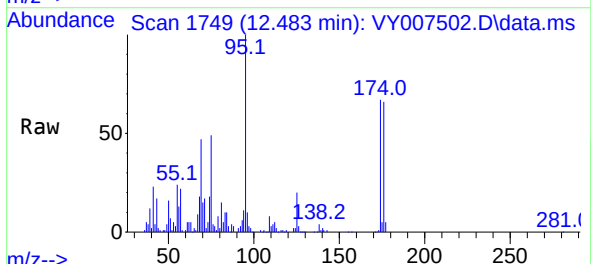
Instrument :
MSVOA_Y
ClientSampleId :

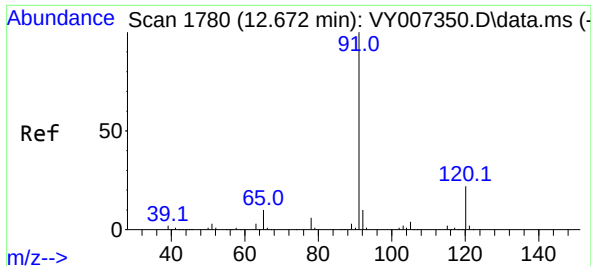
Tgt Ion: 83 Resp: 13005
Ion Ratio Lower Upper
83 100
131 0.0 5.6 16.8#
85 0.0 32.3 96.8#



#76
1,2,3-Trichloropropane
Concen: 48.251 ug/l
RT: 12.483 min Scan# 1749
Delta R.T. -0.153 min
Lab File: VY007502.D
Acq: 15 Feb 2022 14:02

Tgt Ion: 75 Resp: 27510
Ion Ratio Lower Upper
75 100
77 6.5 0.0 0.0#

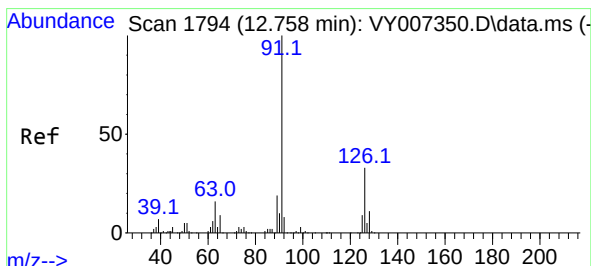
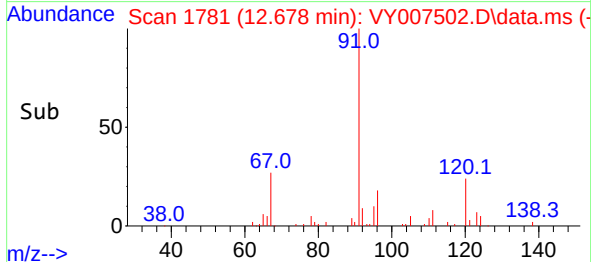
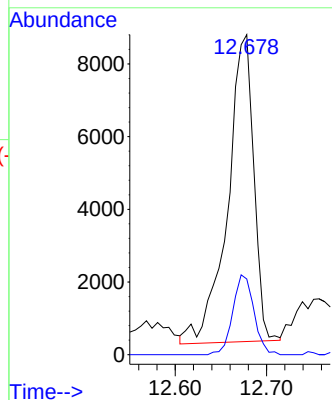
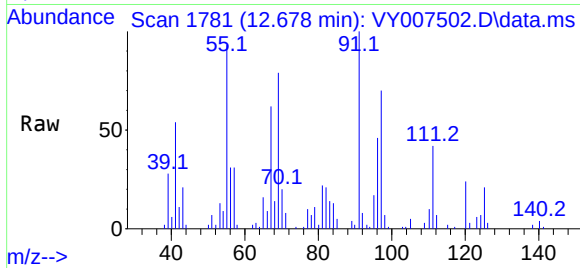




#78
n-propylbenzene
Concen: 3.197 ug/l
RT: 12.678 min Scan# 1780
Delta R.T. 0.006 min
Lab File: VY007502.D
Acq: 15 Feb 2022 14:02

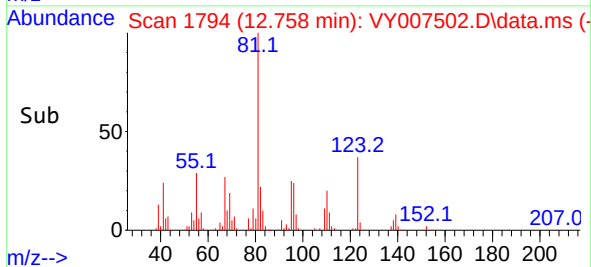
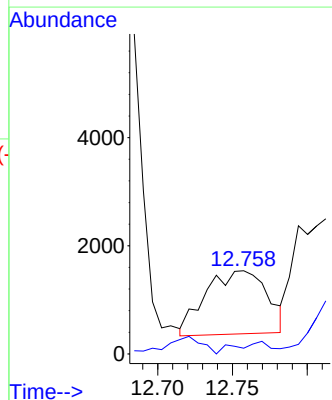
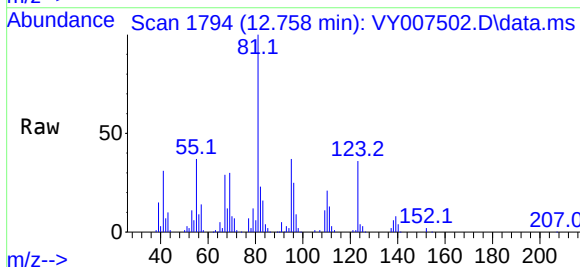
Instrument :
MSVOA_Y
ClientSampleId :

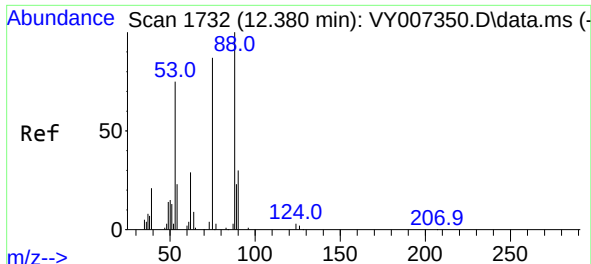
Tgt Ion: 91 Resp: 16819
Ion Ratio Lower Upper
91 100
120 21.0 11.3 33.9



#79
2-Chlorotoluene
Concen: 1.158 ug/l
RT: 12.758 min Scan# 1794
Delta R.T. -0.000 min
Lab File: VY007502.D
Acq: 15 Feb 2022 14:02

Tgt Ion: 91 Resp: 3358
Ion Ratio Lower Upper
91 100
126 11.3 16.9 50.6#

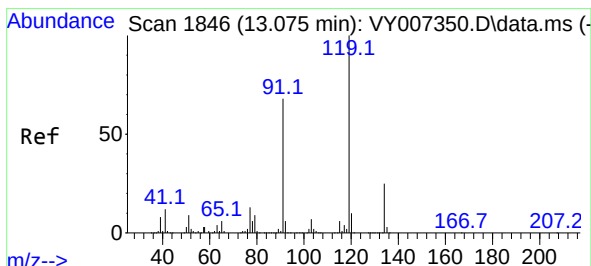
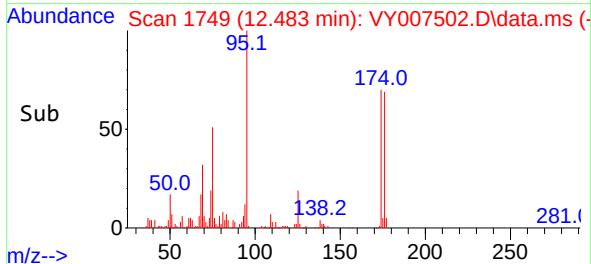
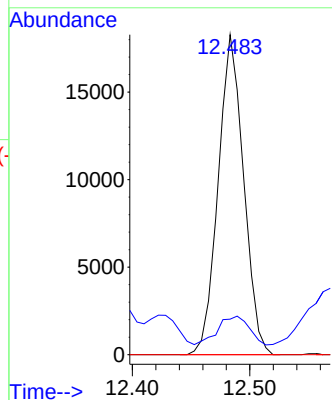
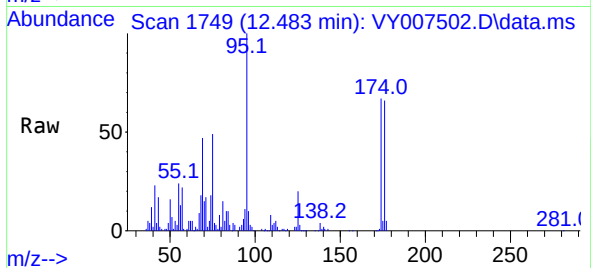




#81
 trans-1,4-Dichloro-2-butene
 Concen: 100.287 ug/l
 RT: 12.483 min Scan# 1749
 Delta R.T. 0.103 min
 Lab File: VY007502.D
 Acq: 15 Feb 2022 14:02

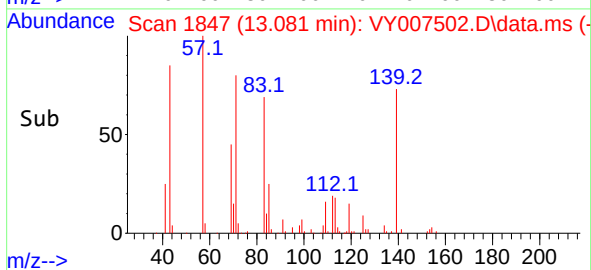
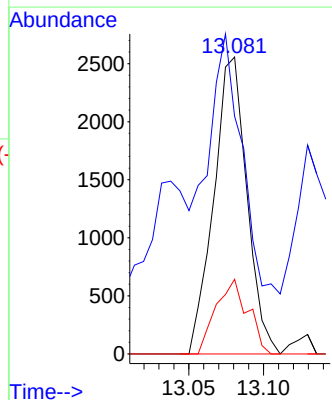
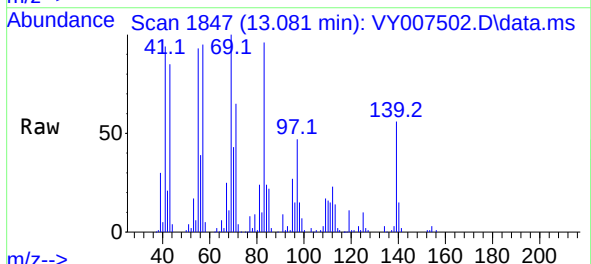
Instrument :
 MSVOA_Y
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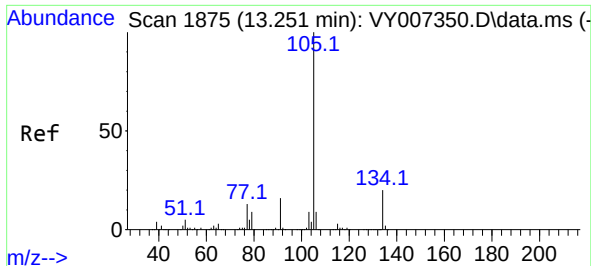
Tgt Ion: 75 Resp: 27510
 Ion Ratio Lower Upper
 75 100
 53 10.9 85.3 127.9#
 89 0.0 37.0 55.4#



#83
 tert-Butylbenzene
 Concen: 1.246 ug/l
 RT: 13.081 min Scan# 1847
 Delta R.T. 0.006 min
 Lab File: VY007502.D
 Acq: 15 Feb 2022 14:02

Tgt Ion: 119 Resp: 3942
 Ion Ratio Lower Upper
 119 100
 91 87.4 34.8 104.4
 134 24.2 13.3 39.9

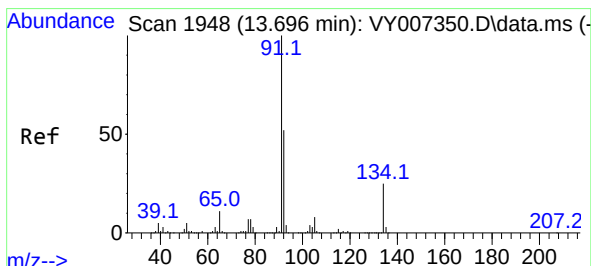
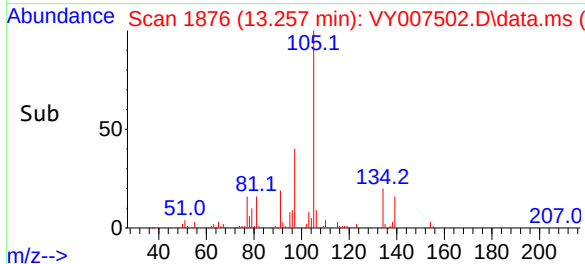
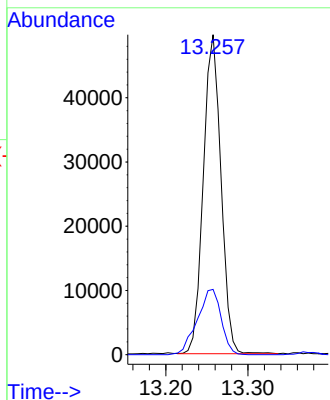
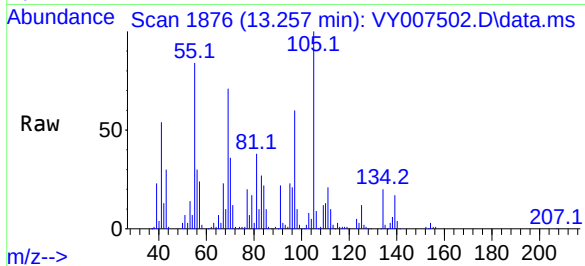




#85
 sec-Butylbenzene
 Concen: 15.860 ug/l
 RT: 13.257 min Scan# 1875
 Delta R.T. 0.006 min
 Lab File: VY007502.D
 Acq: 15 Feb 2022 14:02

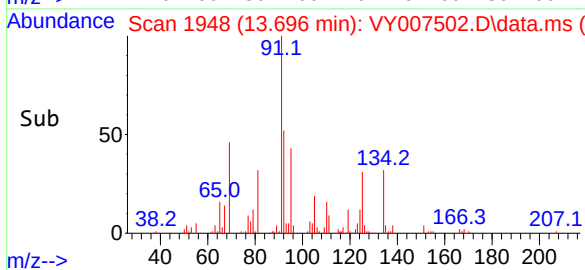
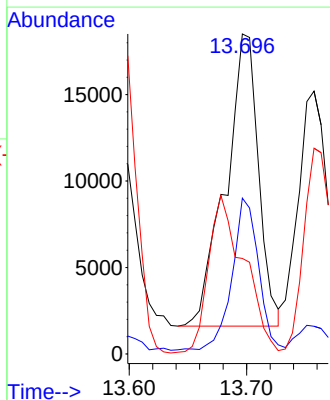
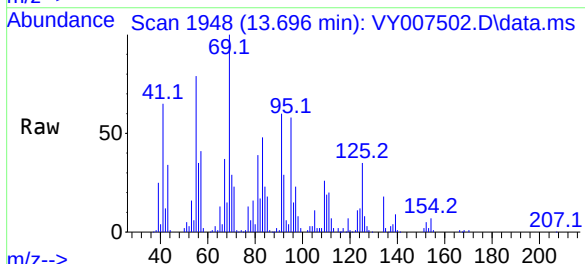
Instrument :
 MSVOA_Y
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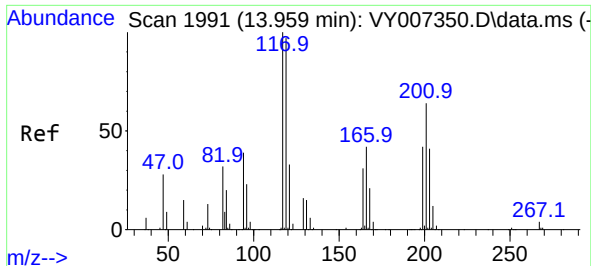
Tgt Ion:105 Resp: 73991
 Ion Ratio Lower Upper
 105 100
 134 27.7 10.2 30.4



#89
 n-Butylbenzene
 Concen: 9.006 ug/l
 RT: 13.696 min Scan# 1948
 Delta R.T. 0.000 min
 Lab File: VY007502.D
 Acq: 15 Feb 2022 14:02

Tgt Ion: 91 Resp: 32909
 Ion Ratio Lower Upper
 91 100
 92 41.4 26.3 78.9
 134 58.1 13.0 38.9#

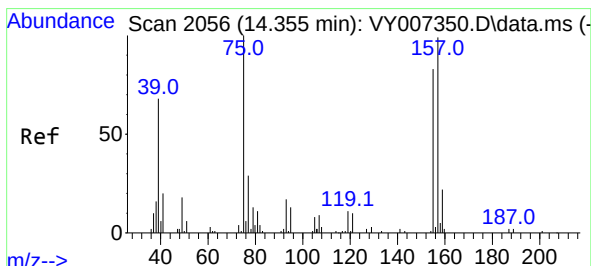
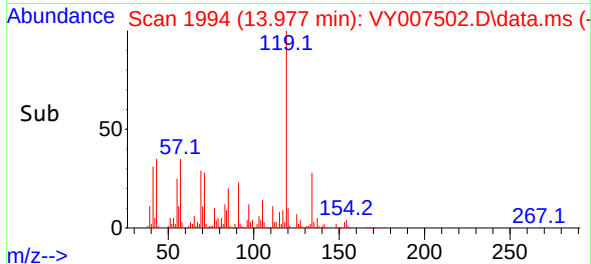
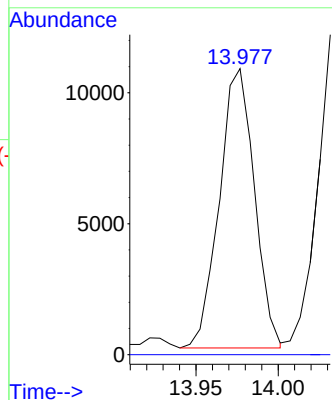
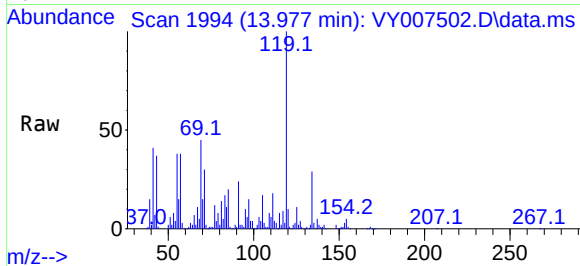




#90
Hexachloroethane
Concen: 21.572 ug/l
RT: 13.977 min Scan# 1994
Delta R.T. 0.018 min
Lab File: VY007502.D
Acq: 15 Feb 2022 14:02

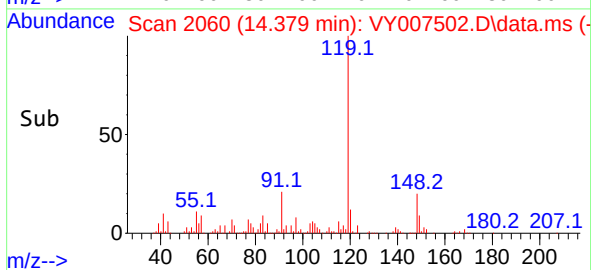
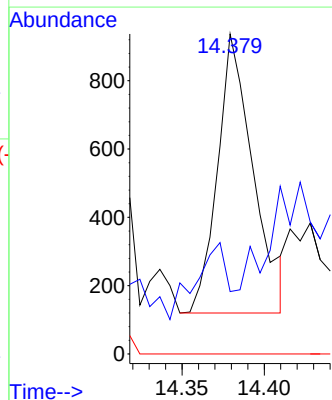
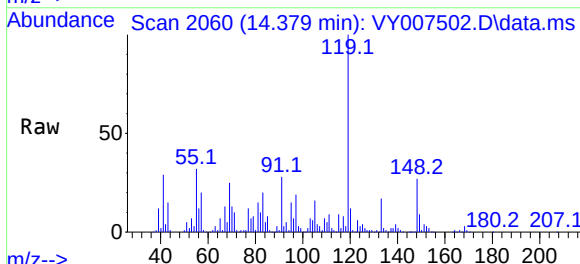
Instrument :
MSVOA_Y
ClientSampleId :

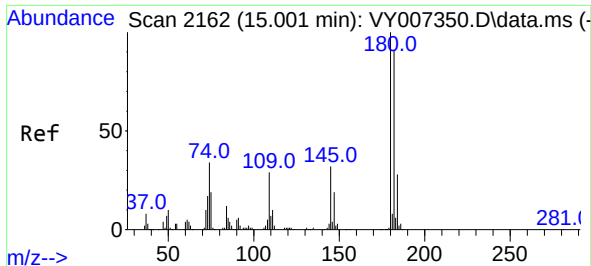
Tgt Ion:117 Resp: 15840
Ion Ratio Lower Upper
117 100
201 0.0 43.0 128.8#



#92
1,2-Dibromo-3-Chloropropane
Concen: 9.684 ug/l
RT: 14.379 min Scan# 2060
Delta R.T. 0.024 min
Lab File: VY007502.D
Acq: 15 Feb 2022 14:02

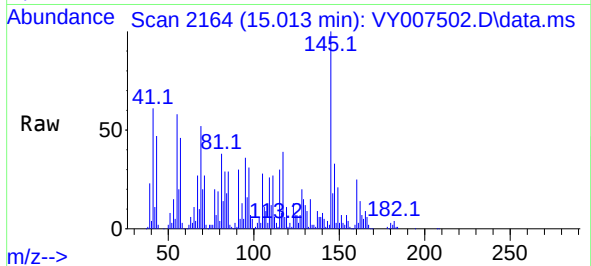
Tgt Ion: 75 Resp: 1231
Ion Ratio Lower Upper
75 100
155 23.8 38.0 113.9#
157 0.0 47.8 143.3#



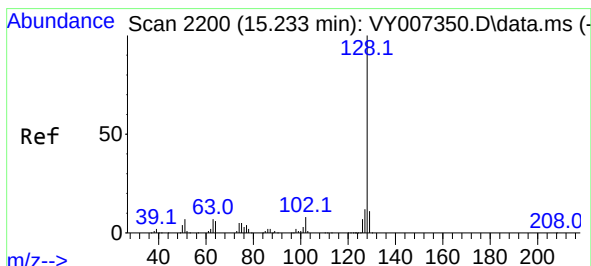
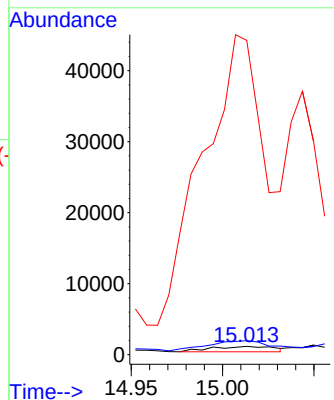
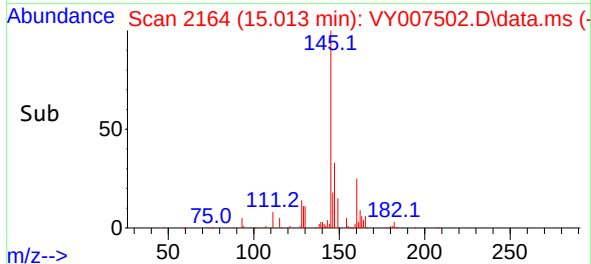


#93
1,2,4-Trichlorobenzene
Concen: 1.850 ug/l
RT: 15.013 min Scan# 2162
Delta R.T. 0.012 min
Lab File: VY007502.D
Acq: 15 Feb 2022 14:02

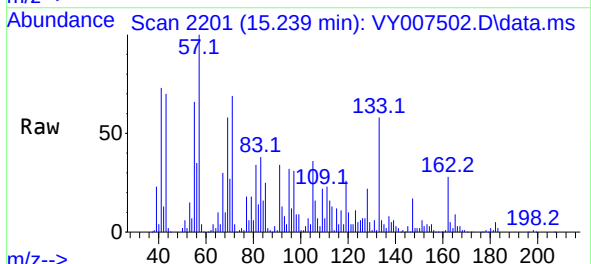
Instrument :
MSVOA_Y
ClientSampleId :



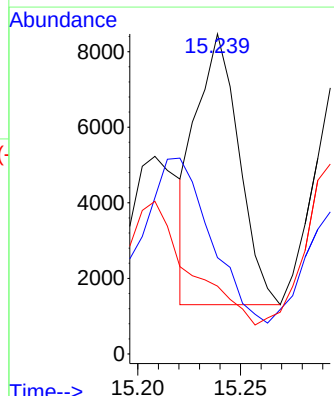
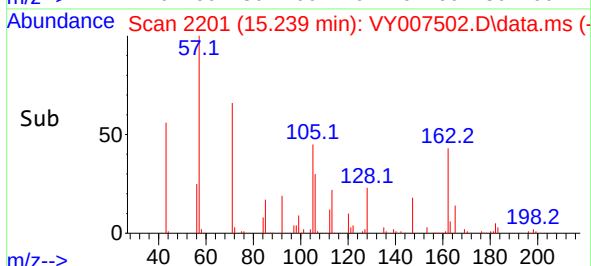
Tgt Ion:180 Resp: 1783
Ion Ratio Lower Upper
180 100
182 201.0 47.3 141.9#
145 5907.7 14.6 43.8#

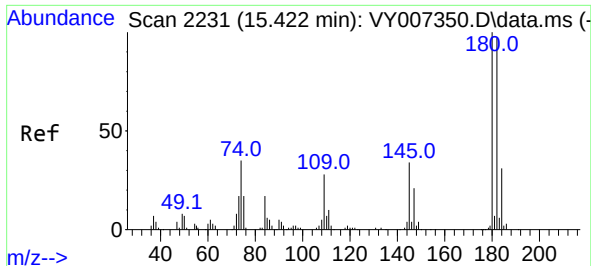


#95
Naphthalene
Concen: 4.981 ug/l
RT: 15.239 min Scan# 2201
Delta R.T. 0.006 min
Lab File: VY007502.D
Acq: 15 Feb 2022 14:02



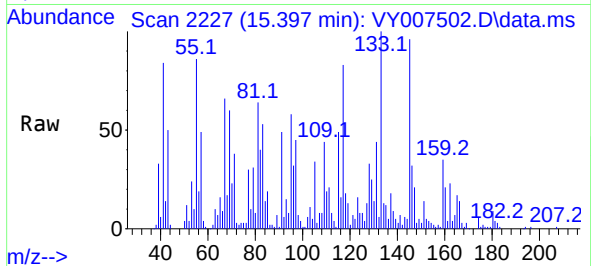
Tgt Ion:128 Resp: 10457
Ion Ratio Lower Upper
128 100
127 0.0 11.0 16.4#
129 0.0 8.4 12.6#





#96
 1,2,3-Trichlorobenzene
 Concen: 5.183 ug/l
 RT: 15.397 min Scan# 21
 Delta R.T. -0.025 min
 Lab File: VY007502.D
 Acq: 15 Feb 2022 14:02

Instrument :
 MSVOA_Y
 ClientSampleId :



Tgt Ion:180 Resp: 4319
 Ion Ratio Lower Upper
 180 100
 182 0.0 47.3 141.9#
 145 1027.1 15.3 45.9#

