

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022222\
 Data File : VY007586.D
 Acq On : 22 Feb 2022 16:30
 Operator : SY/MD
 Sample : N1634-01
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 20071

Quant Time: Feb 23 03:31:47 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022122S.M
 Quant Title : SW846 8260
 QLast Update : Mon Feb 21 15:25:36 2022
 Response via : Initial Calibration

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

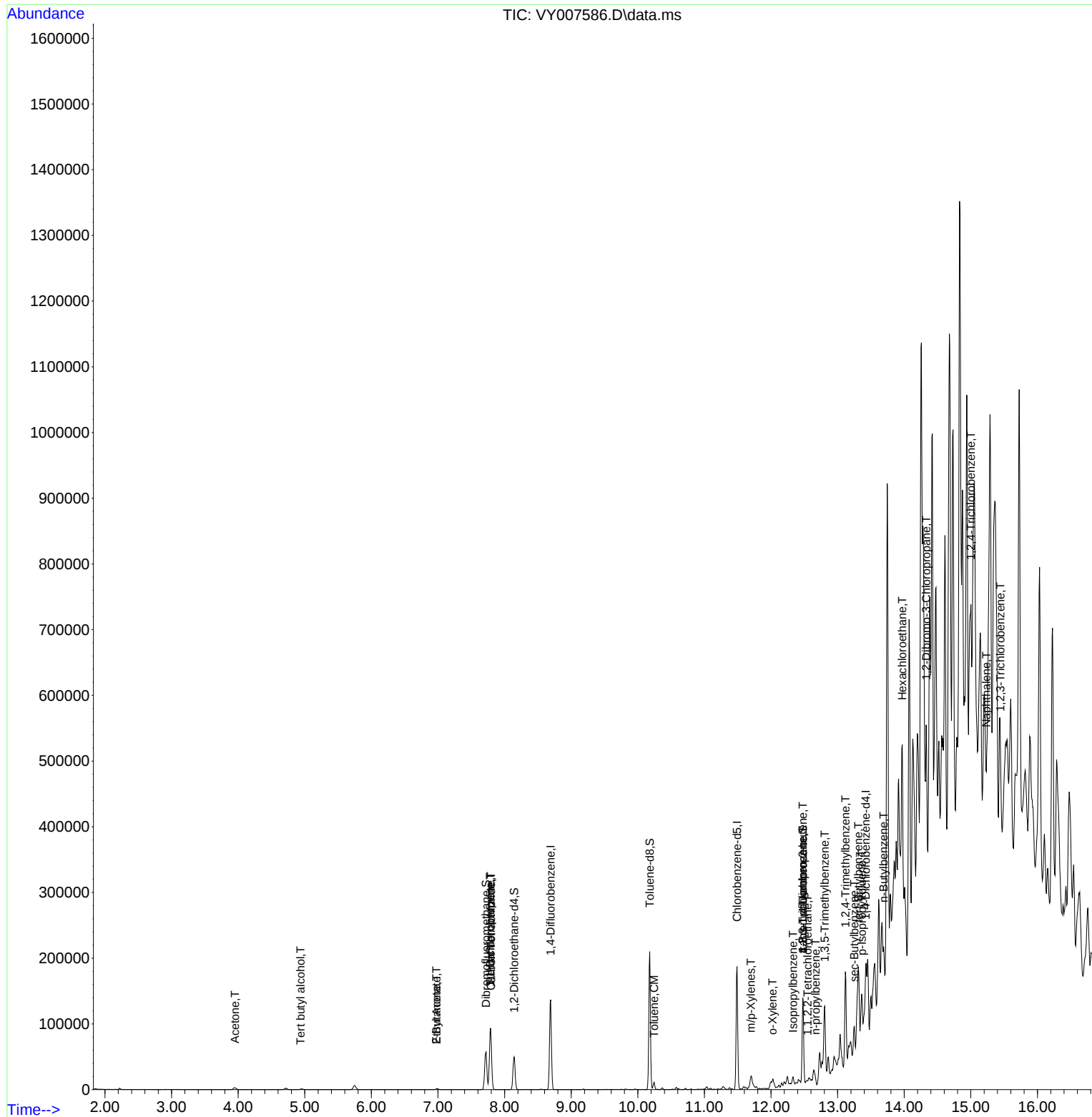
Internal Standards						
1) Pentafluorobenzene	7.789	168	69063	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.691	114	113483	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.490	117	97642	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.422	152	25091	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.143	65	40874	57.143	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 114.280%			
35) Dibromofluoromethane	7.722	113	36840	51.197	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 102.400%			
50) Toluene-d8	10.179	98	130443	52.282	ug/l	0.00
Spiked Amount 50.000	Range 49 - 140		Recovery = 104.560%			
62) 4-Bromofluorobenzene	12.477	95	35410	39.197	ug/l	0.00
Spiked Amount 50.000	Range 25 - 144		Recovery = 78.400%			
Target Compounds						Qvalue
11) Tert butyl alcohol	4.936	59	2388	37.872	ug/l #	95
16) Acetone	3.954	43	5729	33.948	ug/l	91
20) Methylene Chloride	4.716	84	1549	Below Cal	#	78
25) 2-Butanone	6.978	43	2063	10.738	ug/l	93
31) Cyclohexane	7.789	56	1672	Below Cal	#	37
36) 1,1-Dichloropropene	7.783	75	5247	4.990	ug/l #	54
37) Ethyl Acetate	6.978	43	2063	4.808	ug/l #	72
38) Carbon Tetrachloride	7.795	117	7910	5.586	ug/l #	14
52) Toluene	10.246	92	4317	2.236	ug/l	95
68) m/p-Xylenes	11.697	106	4039	2.924	ug/l	96
69) o-Xylene	12.026	106	2201	1.671	ug/l	89
73) Isopropylbenzene	12.331	105	2424	1.221	ug/l	95
75) 1,1,2,2-Tetrachloroethane	12.550	83	853	2.482	ug/l #	28
76) 1,2,3-Trichloropropane	12.477	75	20756	70.670	ug/l #	100
78) n-propylbenzene	12.672	91	5752	2.485	ug/l	92
80) 1,3,5-Trimethylbenzene	12.806	105	13041	7.833	ug/l	98
81) trans-1,4-Dichloro-2-b...	12.477	75	20756	173.194	ug/l #	8
83) tert-Butylbenzene	13.312	119	12227	8.248	ug/l	70
84) 1,2,4-Trimethylbenzene	13.117	105	70025	42.793	ug/l	98
85) sec-Butylbenzene	13.251	105	10149	4.741	ug/l	83
86) p-Isopropyltoluene	13.367	119	19776	10.971	ug/l	99
89) n-Butylbenzene	13.690	91	15788	9.589	ug/l #	66
90) Hexachloroethane	13.971	117	9418	26.385	ug/l #	6
92) 1,2-Dibromo-3-Chloropr...	14.331	75	776	12.115	ug/l #	6
93) 1,2,4-Trichlorobenzene	15.001	180	679	1.306	ug/l #	1
95) Naphthalene	15.233	128	34903	32.216	ug/l #	83
96) 1,2,3-Trichlorobenzene	15.446	180	8519	18.479	ug/l #	1

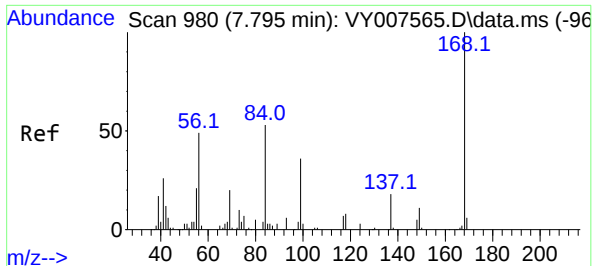
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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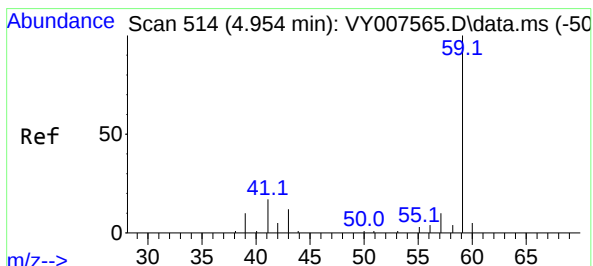
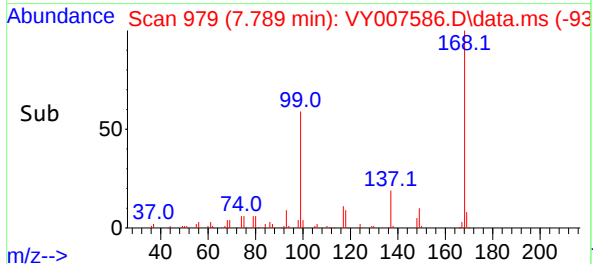
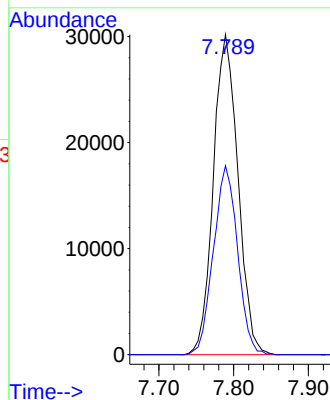
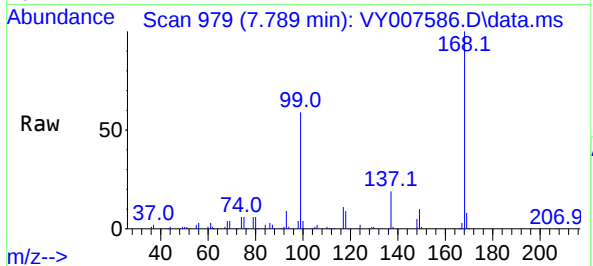




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.789 min Scan# 91
Delta R.T. -0.006 min
Lab File: VY007586.D
Acq: 22 Feb 2022 16:30

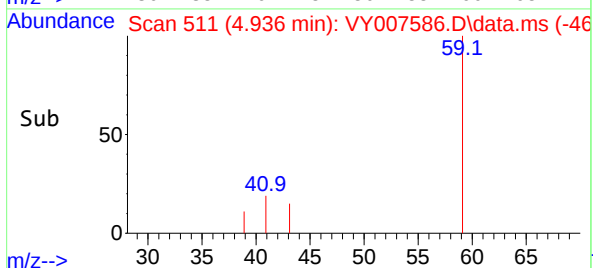
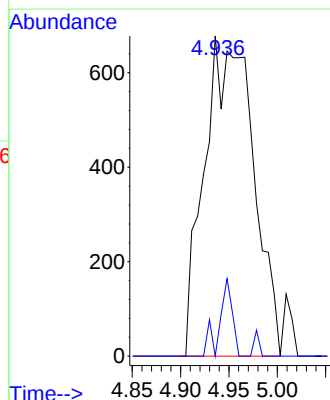
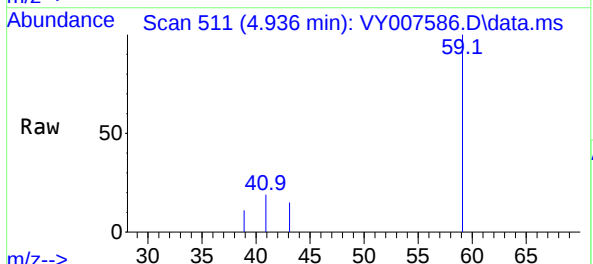
Instrument :
MSVOA_Y
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20071

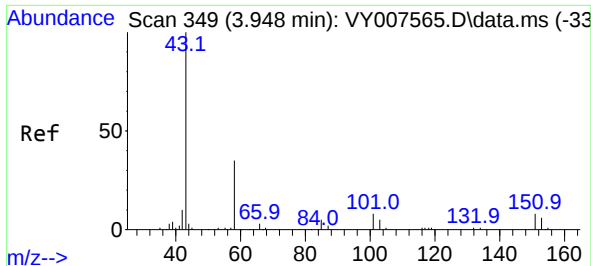
Tgt Ion:168 Resp: 69063
Ion Ratio Lower Upper
168 100
99 59.0 46.9 70.3



#11
Tert butyl alcohol
Concen: 37.872 ug/l
RT: 4.936 min Scan# 511
Delta R.T. -0.018 min
Lab File: VY007586.D
Acq: 22 Feb 2022 16:30

Tgt Ion: 59 Resp: 2388
Ion Ratio Lower Upper
59 100
57 6.4 6.4 9.6#

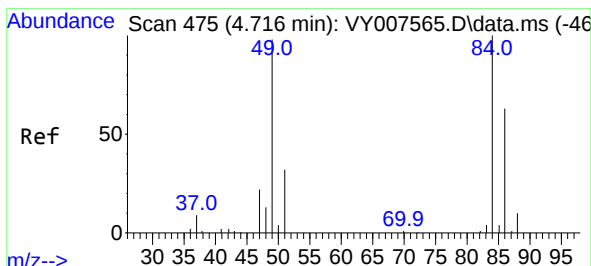
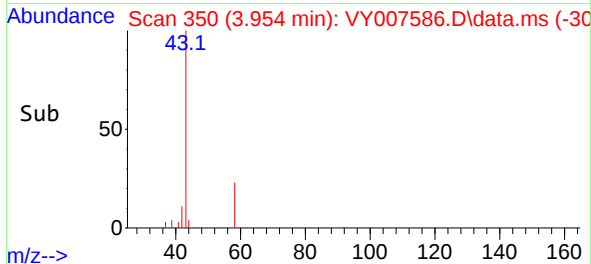
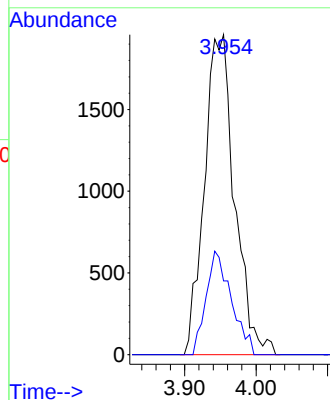
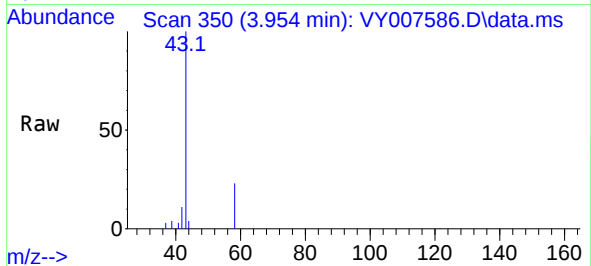




#16
Acetone
Concen: 33.948 ug/l
RT: 3.954 min Scan# 31
Delta R.T. 0.006 min
Lab File: VY007586.D
Acq: 22 Feb 2022 16:30

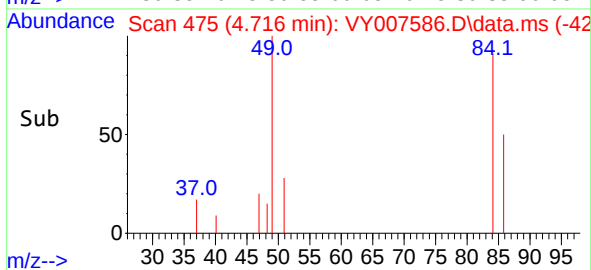
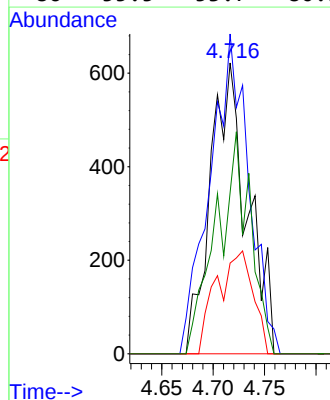
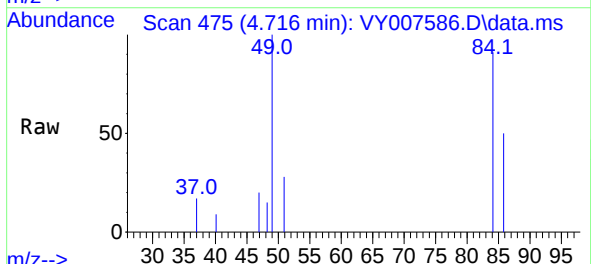
Instrument :
MSVOA_Y
ClientSampleId :
20071

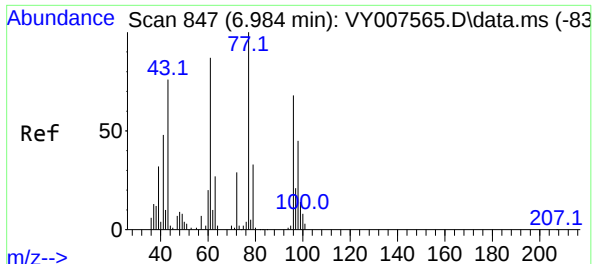
Tgt Ion: 43 Resp: 5729
Ion Ratio Lower Upper
43 100
58 23.0 22.0 33.0



#20
Methylene Chloride
Concen: Below Cal
RT: 4.716 min Scan# 475
Delta R.T. 0.000 min
Lab File: VY007586.D
Acq: 22 Feb 2022 16:30

Tgt Ion: 84 Resp: 1549
Ion Ratio Lower Upper
84 100
49 110.0 114.4 171.6#
51 31.2 35.3 52.9#
86 55.5 53.7 80.5





#25

2-Butanone

Concen: 10.738 ug/l

RT: 6.978 min Scan# 84

Delta R.T. -0.006 min

Lab File: VY007586.D

Acq: 22 Feb 2022 16:30

Instrument :

MSVOA_Y

ClientSampleId :

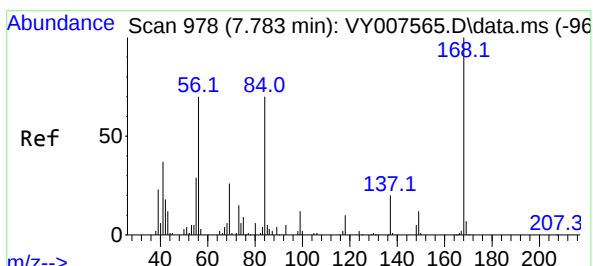
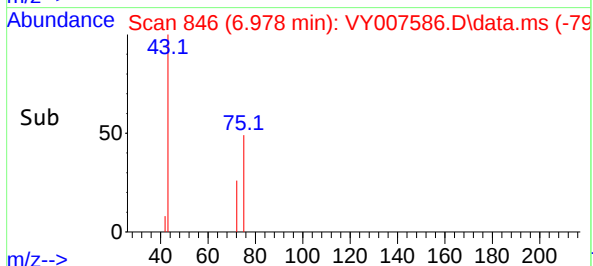
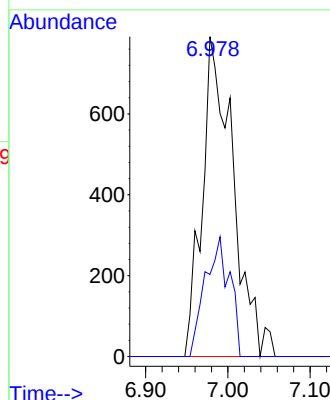
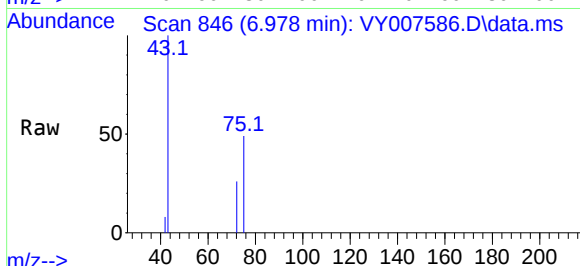
20071

Tgt Ion: 43 Resp: 2063

Ion Ratio Lower Upper

43 100

72 25.7 17.7 26.5



#31

Cyclohexane

Concen: Below Cal

RT: 7.789 min Scan# 979

Delta R.T. 0.006 min

Lab File: VY007586.D

Acq: 22 Feb 2022 16:30

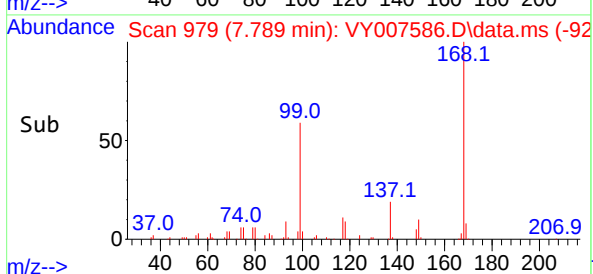
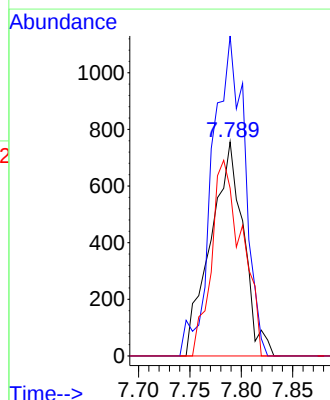
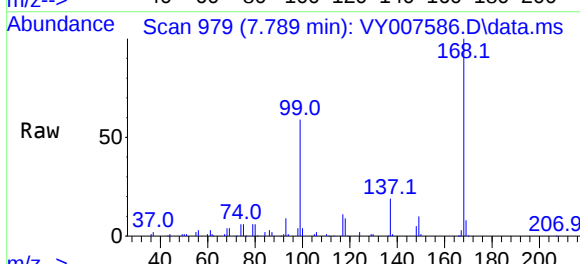
Tgt Ion: 56 Resp: 1672

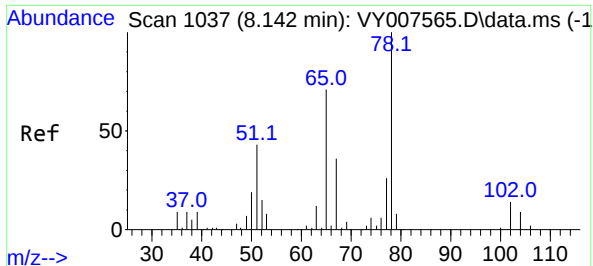
Ion Ratio Lower Upper

56 100

69 149.5 26.7 40.1#

84 78.3 67.2 100.8





#33

1,2-Dichloroethane-d4

Concen: 57.143 ug/l

RT: 8.143 min Scan# 1037

Delta R.T. 0.001 min

Lab File: VY007586.D

Acq: 22 Feb 2022 16:30

Instrument :

MSVOA_Y

ClientSampleId :

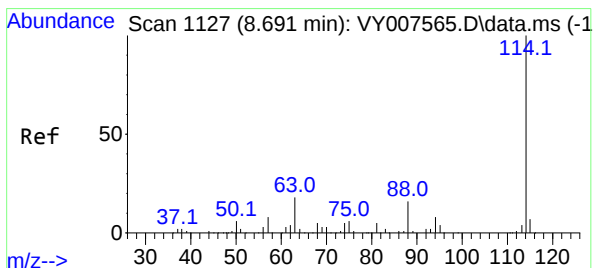
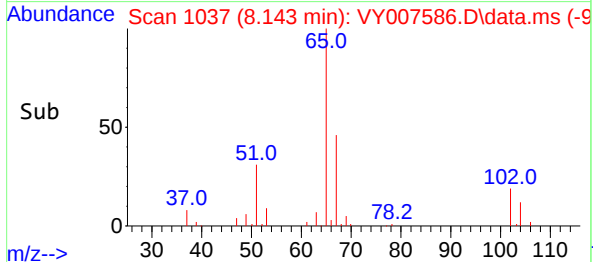
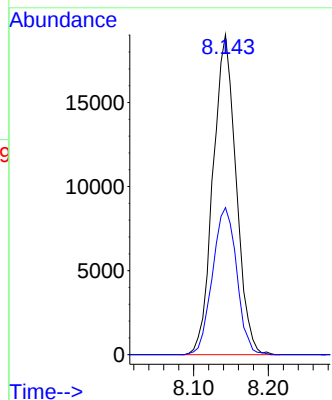
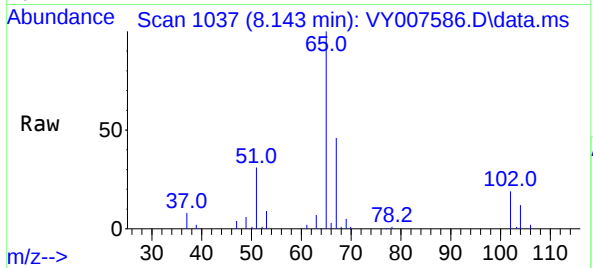
20071

Tgt Ion: 65 Resp: 40874

Ion Ratio Lower Upper

65 100

67 48.2 0.0 99.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.691 min Scan# 1127

Delta R.T. 0.000 min

Lab File: VY007586.D

Acq: 22 Feb 2022 16:30

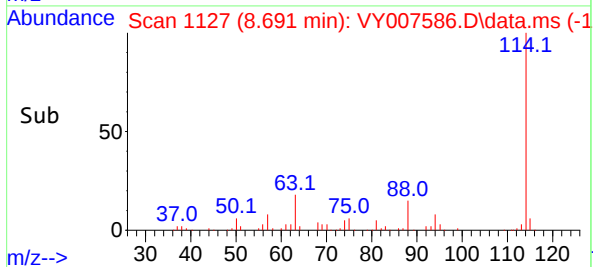
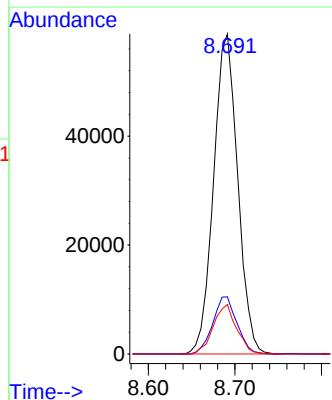
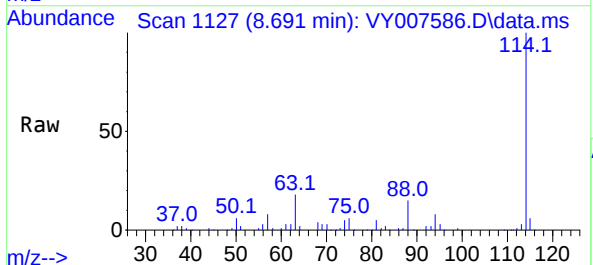
Tgt Ion: 114 Resp: 113483

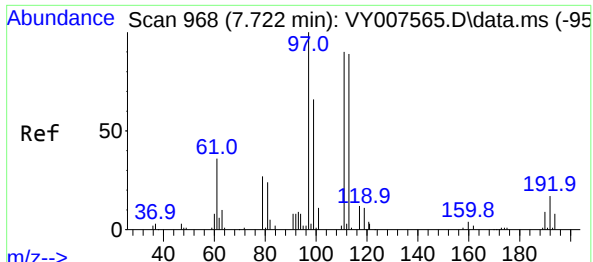
Ion Ratio Lower Upper

114 100

63 17.8 0.0 43.2

88 15.4 0.0 31.8

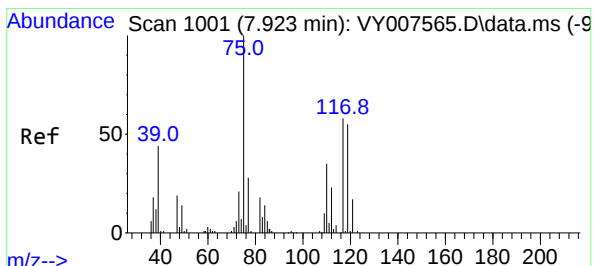
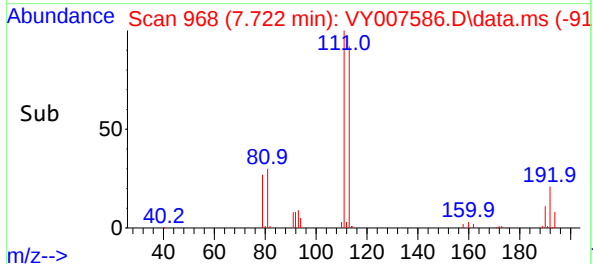
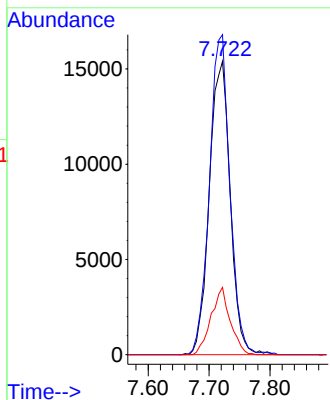
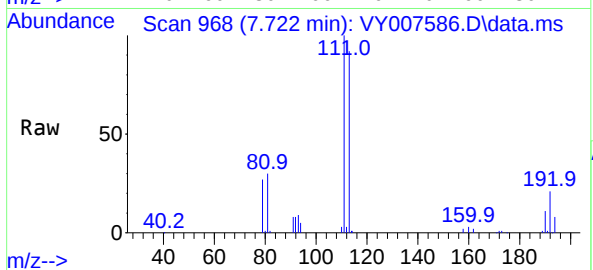




#35
Dibromofluoromethane
Concen: 51.197 ug/l
RT: 7.722 min Scan# 91
Delta R.T. -0.000 min
Lab File: VY007586.D
Acq: 22 Feb 2022 16:30

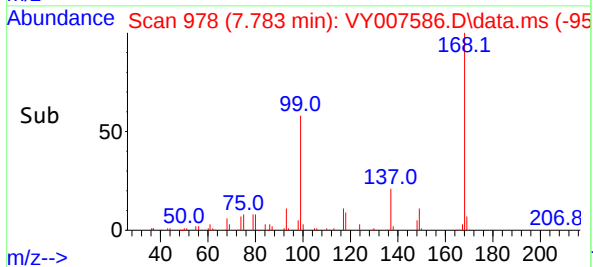
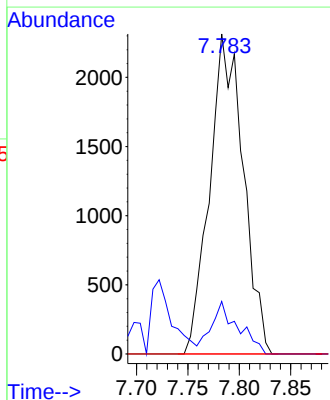
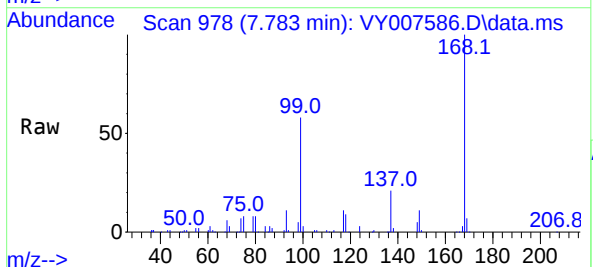
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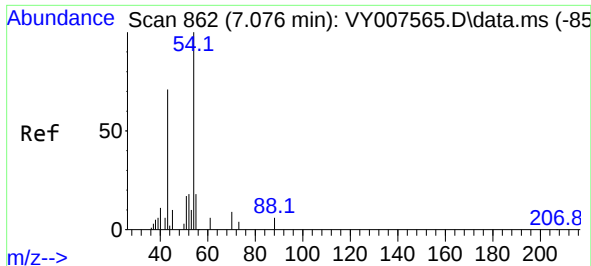
Tgt Ion:113 Resp: 36840
Ion Ratio Lower Upper
113 100
111 106.5 82.6 124.0
192 21.0 17.6 26.4



#36
1,1-Dichloropropene
Concen: 4.990 ug/l
RT: 7.783 min Scan# 978
Delta R.T. -0.140 min
Lab File: VY007586.D
Acq: 22 Feb 2022 16:30

Tgt Ion: 75 Resp: 5247
Ion Ratio Lower Upper
75 100
110 13.2 17.1 51.2#
77 0.0 24.4 36.6#

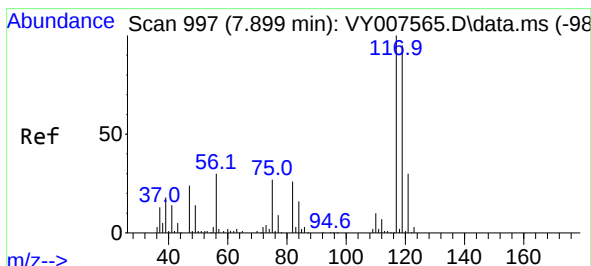
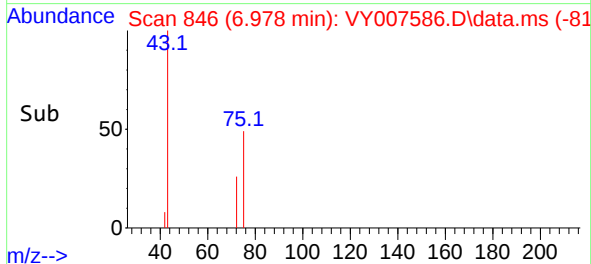
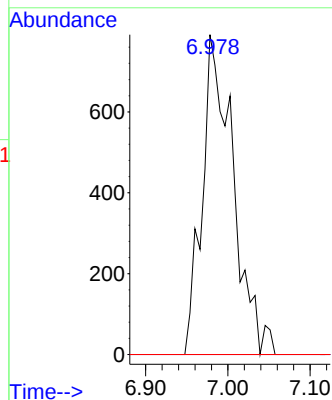
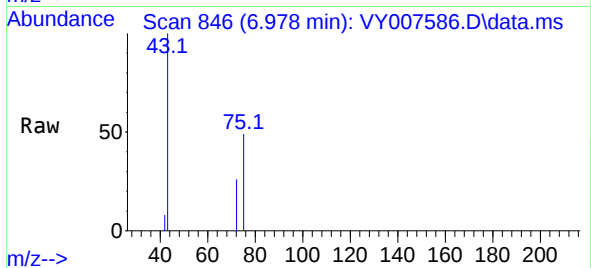




#37
Ethyl Acetate
Concen: 4.808 ug/l
RT: 6.978 min Scan# 84
Delta R.T. -0.098 min
Lab File: VY007586.D
Acq: 22 Feb 2022 16:30

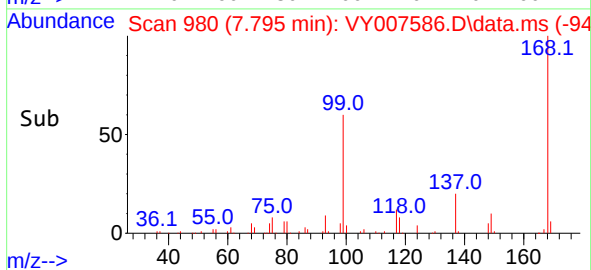
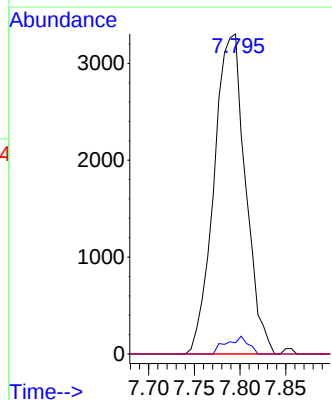
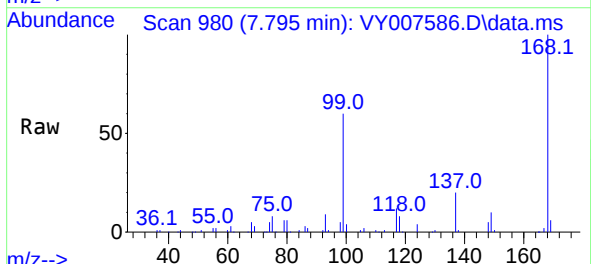
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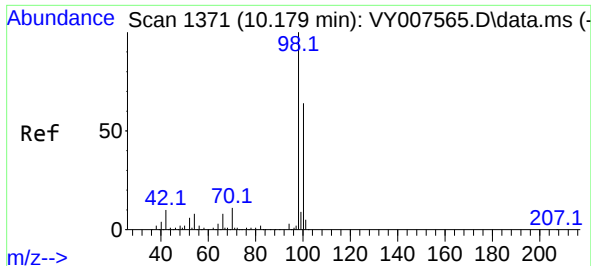
Tgt Ion: 43 Resp: 2063
Ion Ratio Lower Upper
43 100
61 0.0 9.7 14.5#
70 0.0 7.1 10.7#



#38
Carbon Tetrachloride
Concen: 5.586 ug/l
RT: 7.795 min Scan# 980
Delta R.T. -0.104 min
Lab File: VY007586.D
Acq: 22 Feb 2022 16:30

Tgt Ion: 117 Resp: 7910
Ion Ratio Lower Upper
117 100
119 3.5 77.9 116.9#
121 0.0 24.8 37.2#

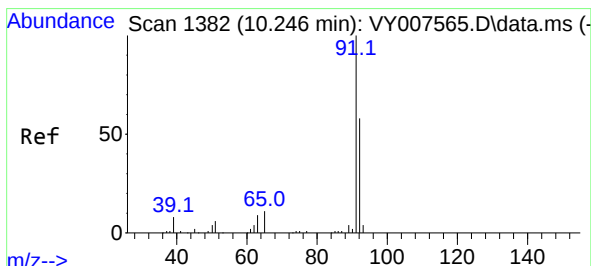
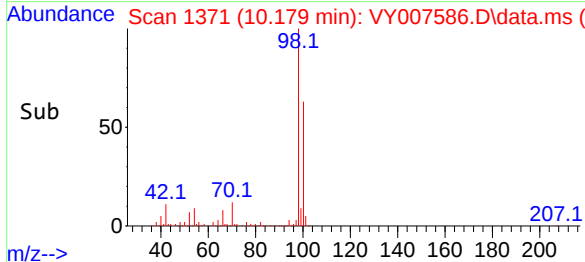
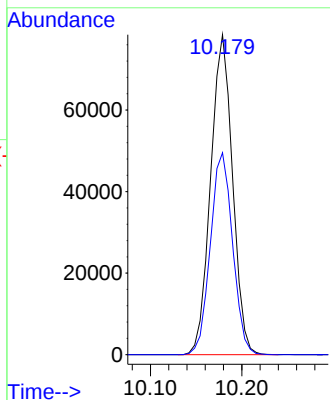
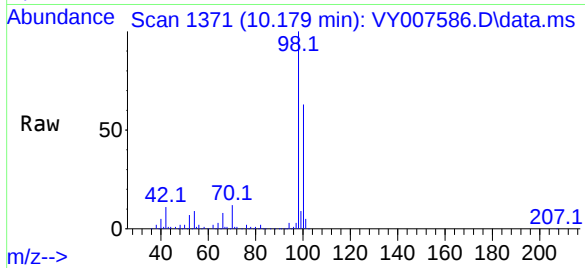




#50
Toluene-d8
Concen: 52.282 ug/l
RT: 10.179 min Scan# 1371
Delta R.T. -0.000 min
Lab File: VY007586.D
Acq: 22 Feb 2022 16:30

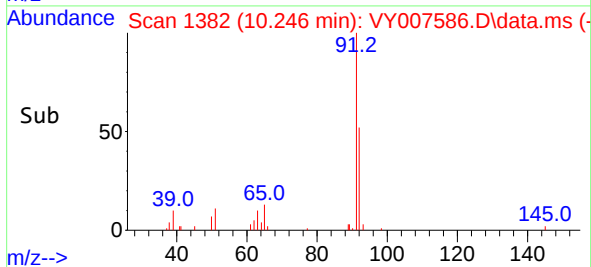
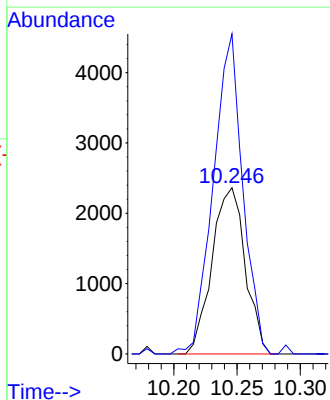
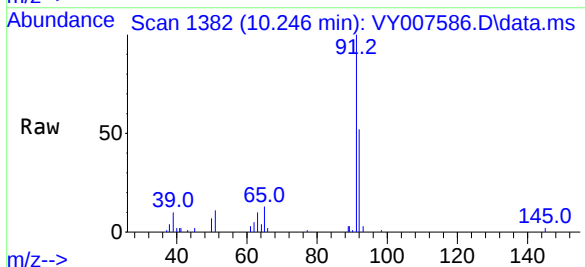
Instrument :
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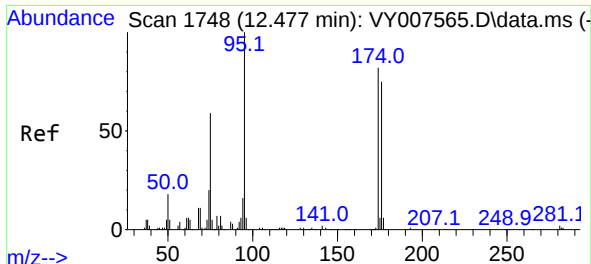
Tgt Ion: 98 Resp: 130443
Ion Ratio Lower Upper
98 100
100 64.1 50.2 75.2



#52
Toluene
Concen: 2.236 ug/l
RT: 10.246 min Scan# 1382
Delta R.T. -0.000 min
Lab File: VY007586.D
Acq: 22 Feb 2022 16:30

Tgt Ion: 92 Resp: 4317
Ion Ratio Lower Upper
92 100
91 170.8 142.6 213.8

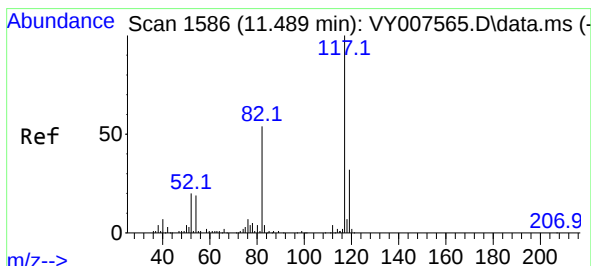
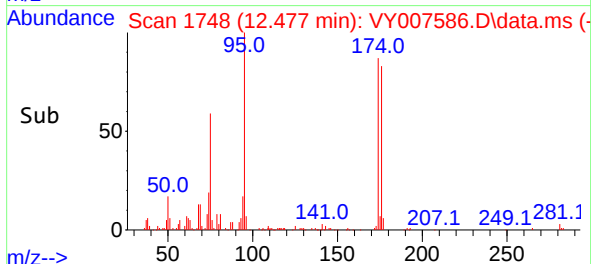
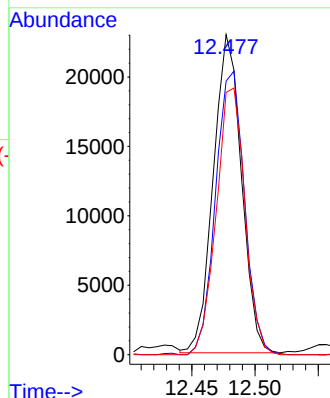
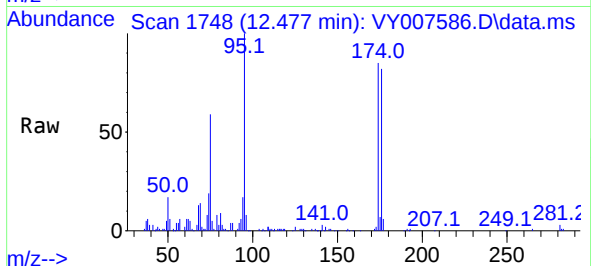




#62
4-Bromofluorobenzene
Concen: 39.197 ug/l
RT: 12.477 min Scan# 11
Delta R.T. 0.000 min
Lab File: VY007586.D
Acq: 22 Feb 2022 16:30

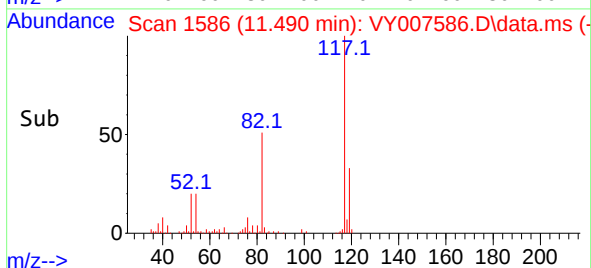
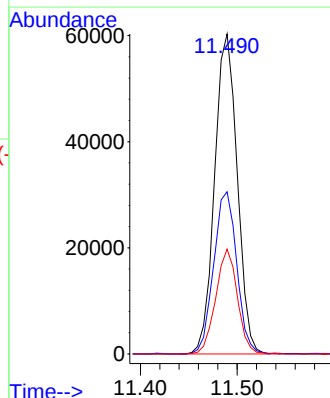
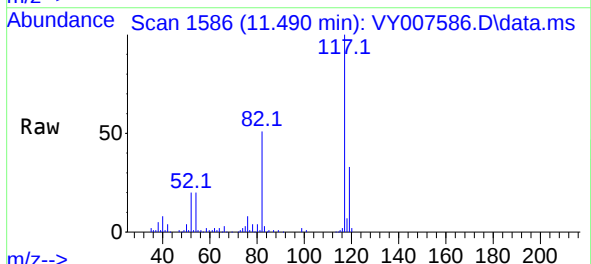
Instrument :
MSVOA_Y
ClientSampleId :
20071

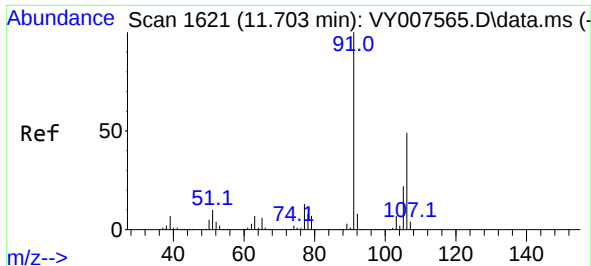
Tgt Ion: 95 Resp: 35410
Ion Ratio Lower Upper
95 100
174 91.5 0.0 177.0
176 85.3 0.0 175.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.490 min Scan# 1586
Delta R.T. 0.001 min
Lab File: VY007586.D
Acq: 22 Feb 2022 16:30

Tgt Ion: 117 Resp: 97642
Ion Ratio Lower Upper
117 100
82 50.7 43.0 64.4
119 32.8 25.4 38.0

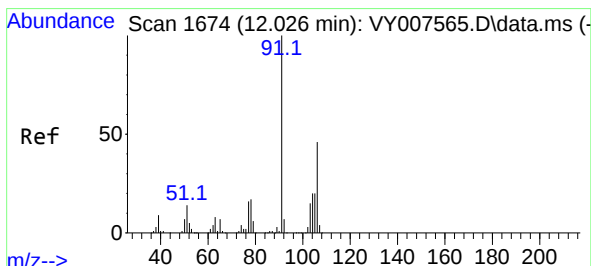
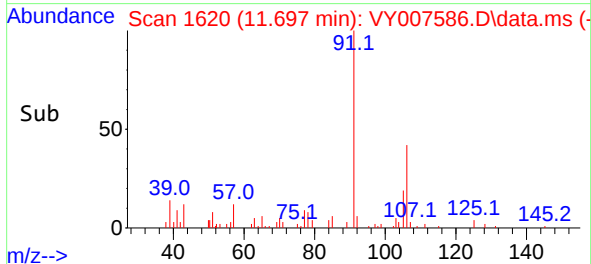
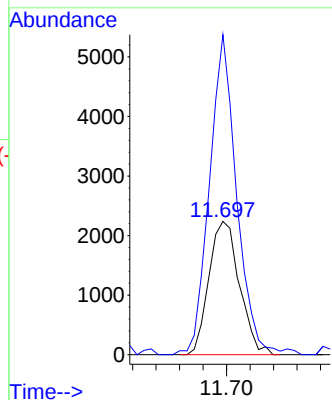
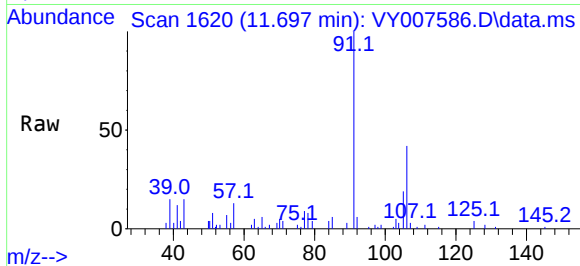




#68
m/p-Xylenes
Concen: 2.924 ug/l
RT: 11.697 min Scan# 11697
Delta R.T. -0.006 min
Lab File: VY007586.D
Acq: 22 Feb 2022 16:30

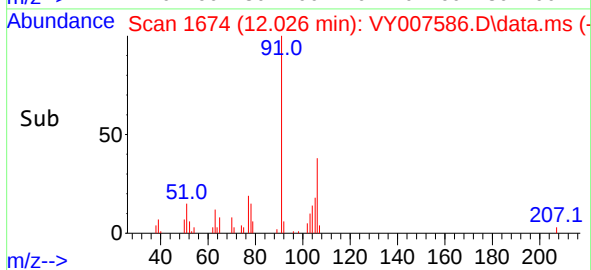
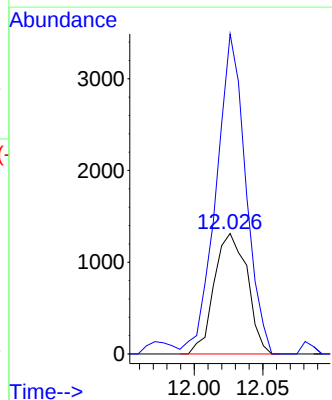
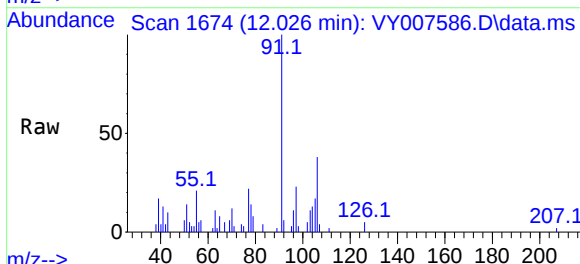
Instrument :
MSVOA_Y
ClientSampleId :
20071

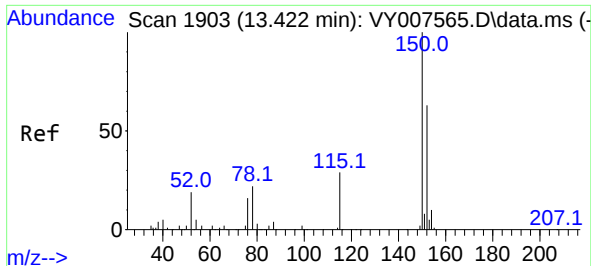
Tgt Ion:106 Resp: 4039
Ion Ratio Lower Upper
106 100
91 214.2 166.6 249.8



#69
o-Xylene
Concen: 1.671 ug/l
RT: 12.026 min Scan# 1674
Delta R.T. 0.000 min
Lab File: VY007586.D
Acq: 22 Feb 2022 16:30

Tgt Ion:106 Resp: 2201
Ion Ratio Lower Upper
106 100
91 238.3 110.3 331.0

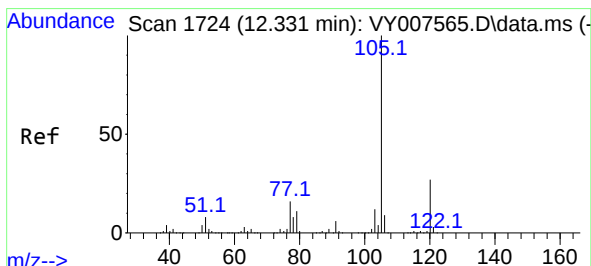
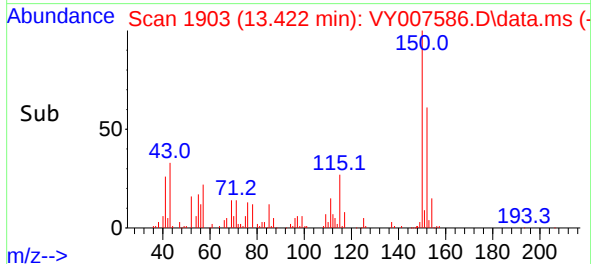
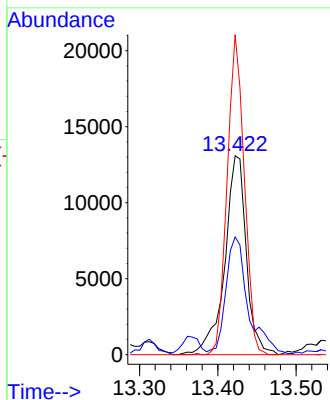
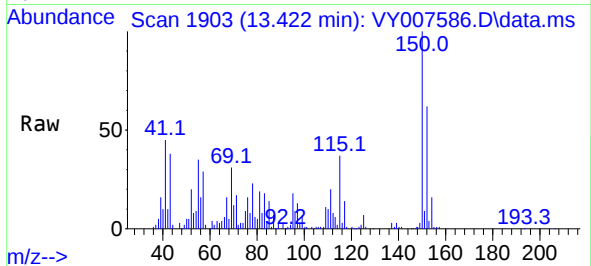




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.422 min Scan# 1903
Delta R.T. 0.000 min
Lab File: VY007586.D
Acq: 22 Feb 2022 16:30

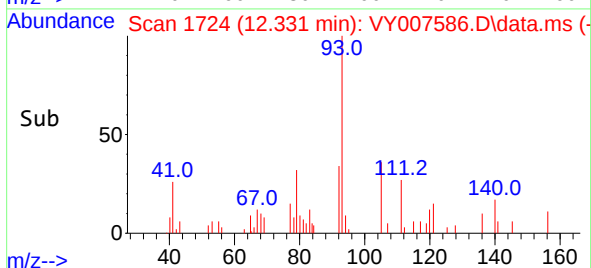
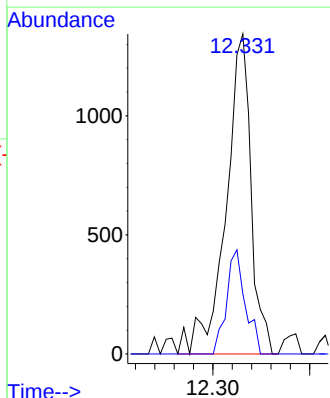
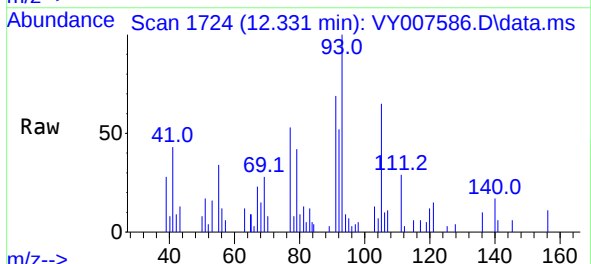
Instrument :
MSVOA_Y
ClientSampleId :
20071

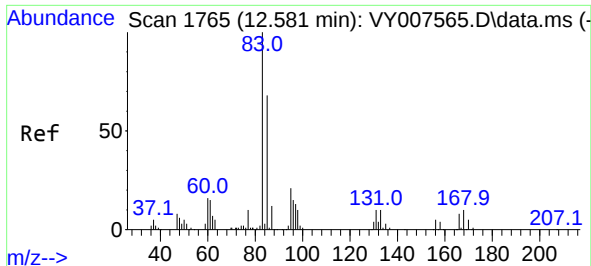
Tgt Ion:152 Resp: 25091
Ion Ratio Lower Upper
152 100
115 59.3 28.2 84.7
150 127.6 0.0 347.6



#73
Isopropylbenzene
Concen: 1.221 ug/l
RT: 12.331 min Scan# 1724
Delta R.T. -0.000 min
Lab File: VY007586.D
Acq: 22 Feb 2022 16:30

Tgt Ion:105 Resp: 2424
Ion Ratio Lower Upper
105 100
120 24.3 13.4 40.2

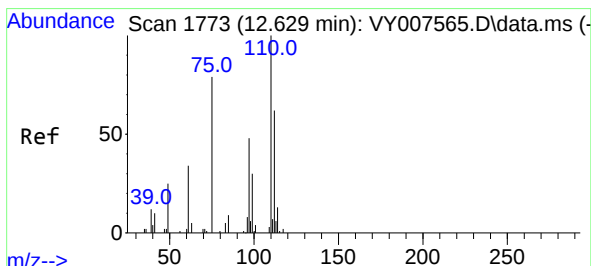
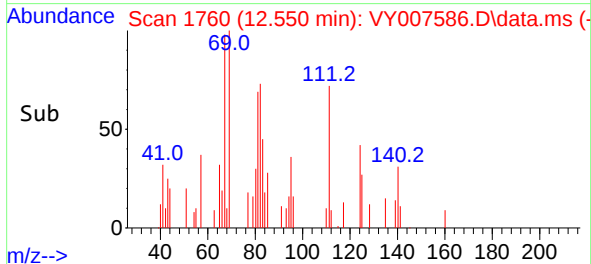
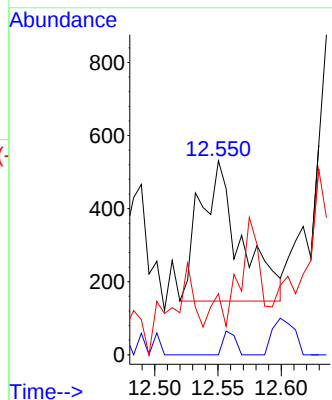
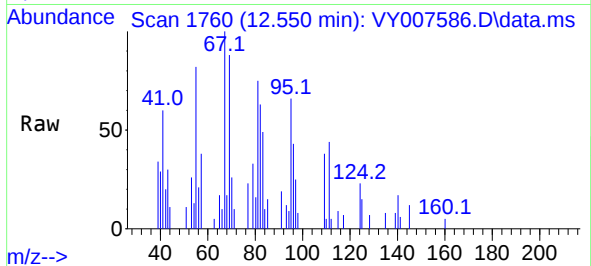




#75
1,1,2,2-Tetrachloroethane
Concen: 2.482 ug/l
RT: 12.550 min Scan# 11
Delta R.T. -0.031 min
Lab File: VY007586.D
Acq: 22 Feb 2022 16:30

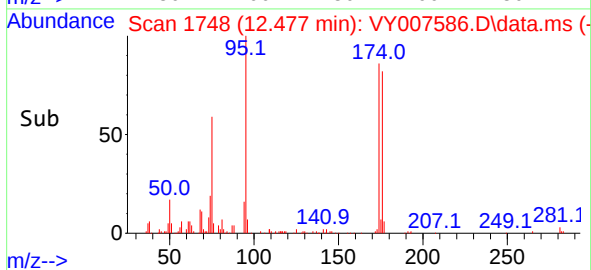
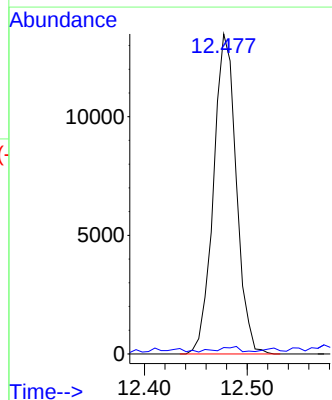
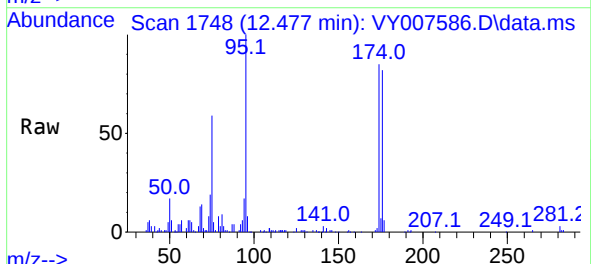
Instrument :
MSVOA_Y
ClientSampleId :
20071

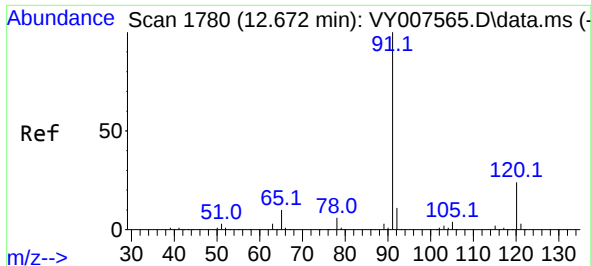
Tgt Ion: 83 Resp: 853
Ion Ratio Lower Upper
83 100
131 5.0 5.6 16.8#
85 0.0 32.3 96.8#



#76
1,2,3-Trichloropropane
Concen: 70.670 ug/l
RT: 12.477 min Scan# 1748
Delta R.T. -0.152 min
Lab File: VY007586.D
Acq: 22 Feb 2022 16:30

Tgt Ion: 75 Resp: 20756
Ion Ratio Lower Upper
75 100
77 1.6 0.0 0.0#

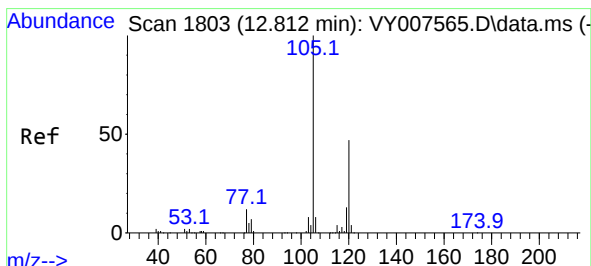
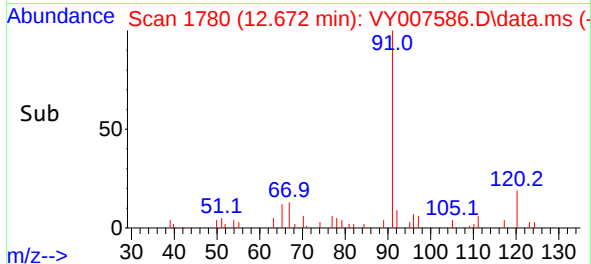
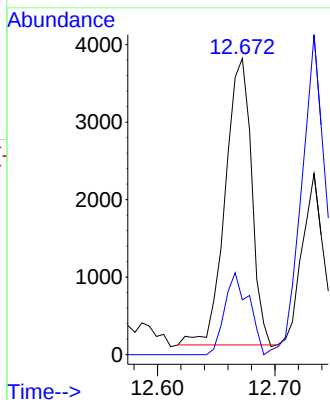
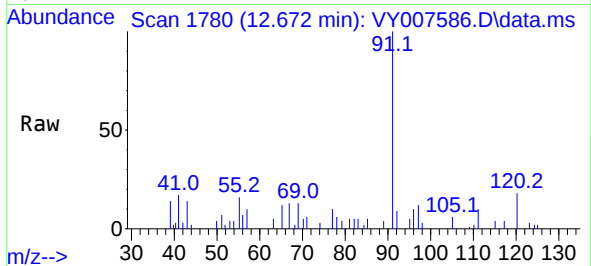




#78
n-propylbenzene
Concen: 2.485 ug/l
RT: 12.672 min Scan# 1780
Delta R.T. 0.000 min
Lab File: VY007586.D
Acq: 22 Feb 2022 16:30

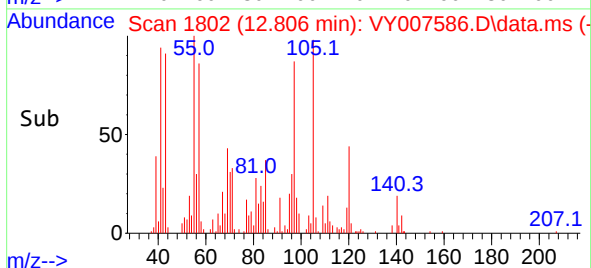
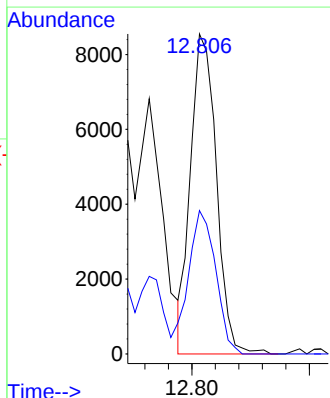
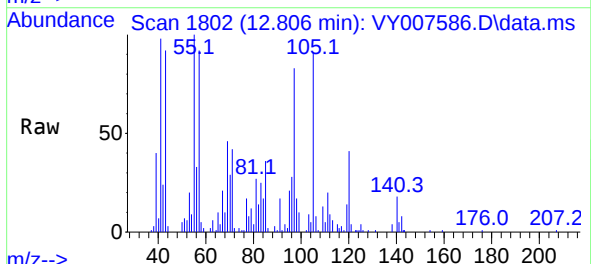
Instrument :
MSVOA_Y
ClientSampleId :
20071

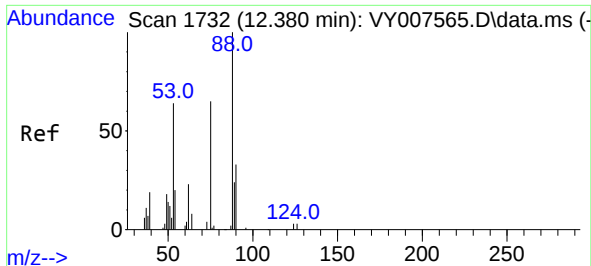
Tgt Ion: 91 Resp: 5752
Ion Ratio Lower Upper
91 100
120 26.6 11.3 33.9



#80
1,3,5-Trimethylbenzene
Concen: 7.833 ug/l
RT: 12.806 min Scan# 1802
Delta R.T. -0.006 min
Lab File: VY007586.D
Acq: 22 Feb 2022 16:30

Tgt Ion: 105 Resp: 13041
Ion Ratio Lower Upper
105 100
120 47.6 24.4 73.4

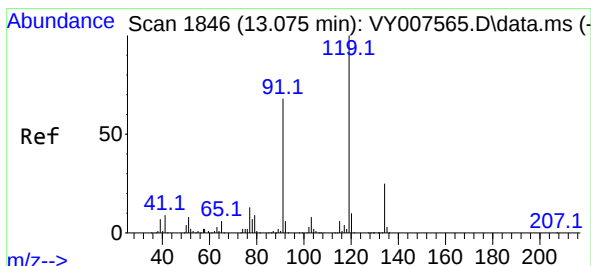
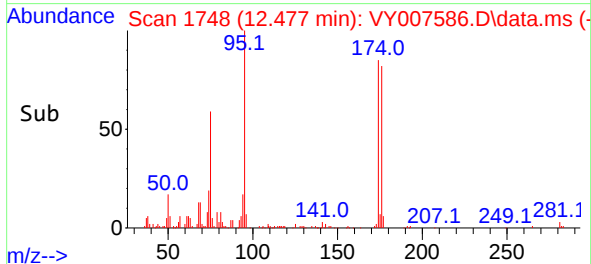
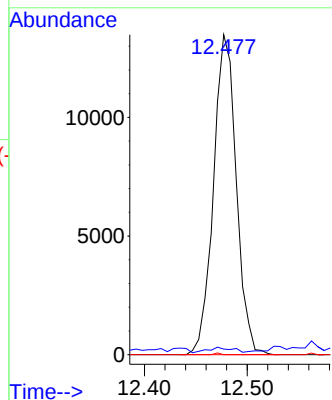
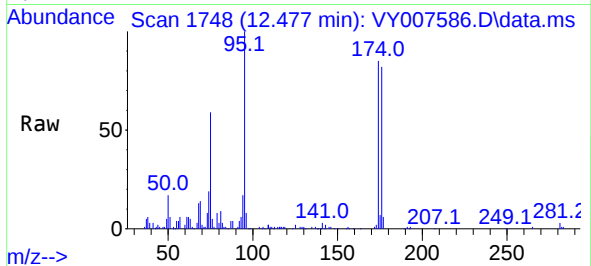




#81
 trans-1,4-Dichloro-2-butene
 Concen: 173.194 ug/l
 RT: 12.477 min Scan# 11
 Delta R.T. 0.097 min
 Lab File: VY007586.D
 Acq: 22 Feb 2022 16:30

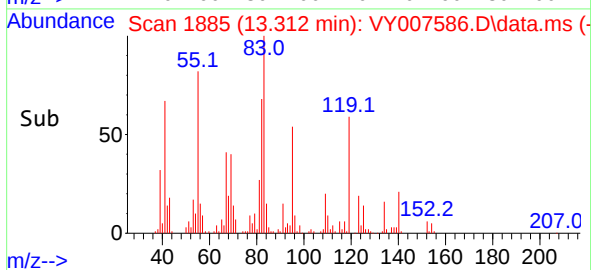
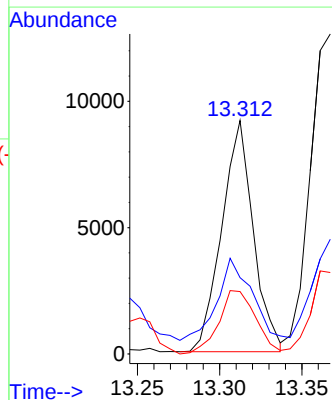
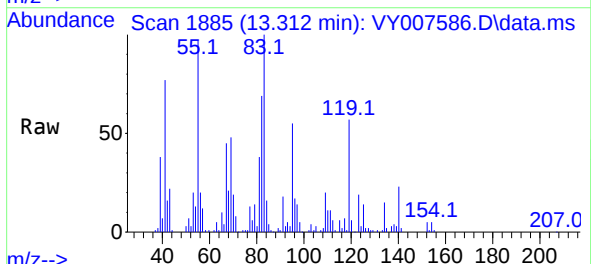
Instrument :
 MSVOA_Y
 ClientSampleId :
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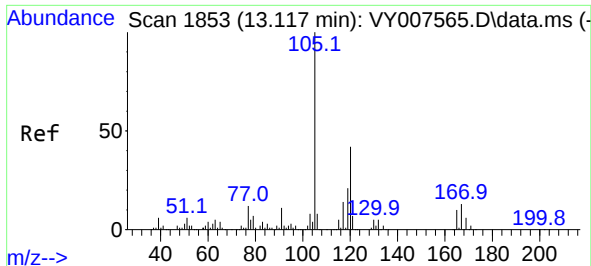
Tgt Ion:	75	Resp:	20756
Ion	Ratio	Lower	Upper
75	100		
53	1.1	85.3	127.9#
89	0.1	37.0	55.4#



#83
 tert-Butylbenzene
 Concen: 8.248 ug/l
 RT: 13.312 min Scan# 1885
 Delta R.T. 0.237 min
 Lab File: VY007586.D
 Acq: 22 Feb 2022 16:30

Tgt Ion:	119	Resp:	12227
Ion	Ratio	Lower	Upper
119	100		
91	38.9	34.8	104.4
134	32.2	13.3	39.9

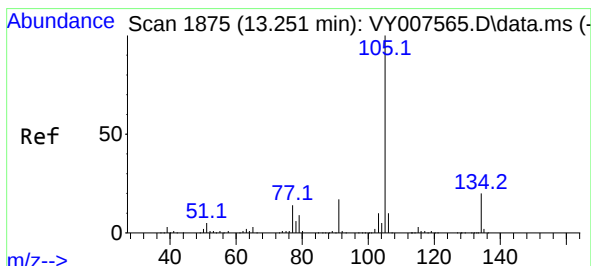
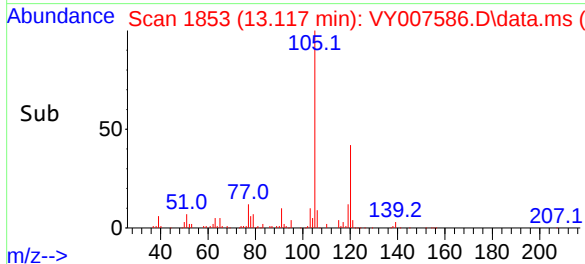
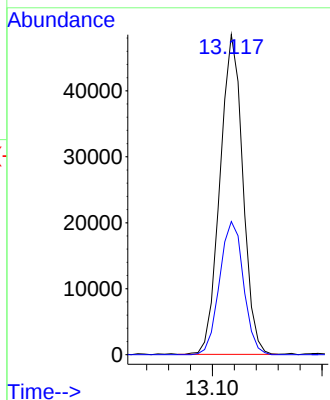
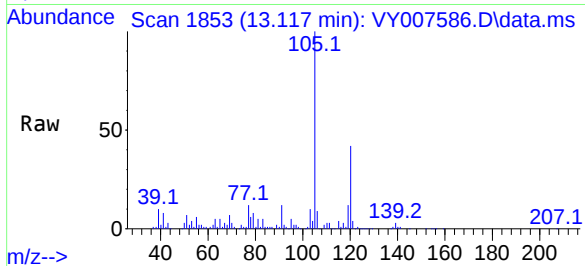




#84
1,2,4-Trimethylbenzene
Concen: 42.793 ug/l
RT: 13.117 min Scan# 1853
Delta R.T. 0.000 min
Lab File: VY007586.D
Acq: 22 Feb 2022 16:30

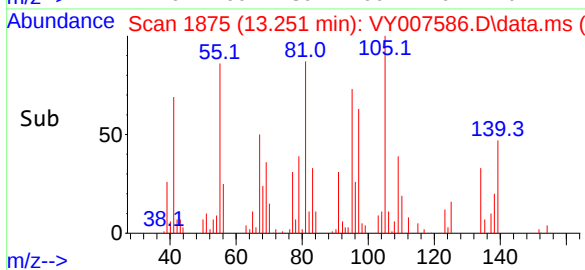
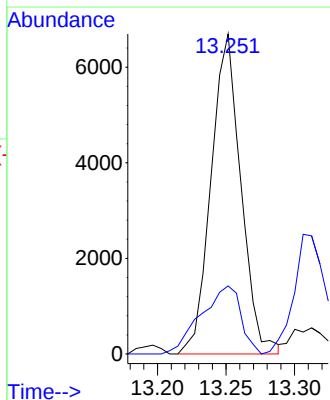
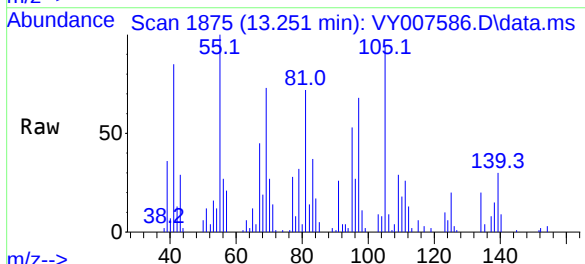
Instrument :
MSVOA_Y
ClientSampleId :
20071

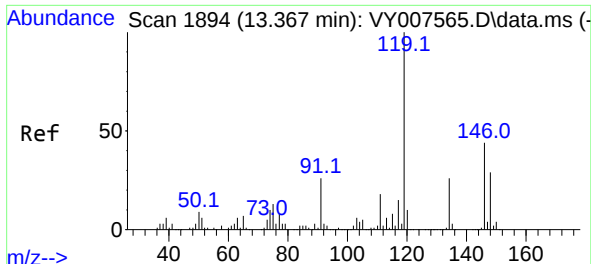
Tgt Ion:105 Resp: 70025
Ion Ratio Lower Upper
105 100
120 43.6 22.3 66.9



#85
sec-Butylbenzene
Concen: 4.741 ug/l
RT: 13.251 min Scan# 1875
Delta R.T. 0.000 min
Lab File: VY007586.D
Acq: 22 Feb 2022 16:30

Tgt Ion:105 Resp: 10149
Ion Ratio Lower Upper
105 100
134 28.4 10.2 30.4

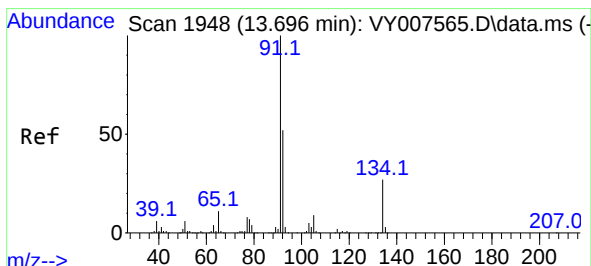
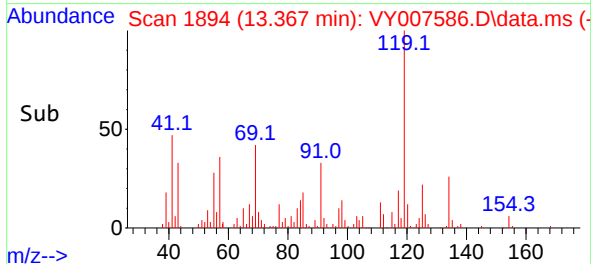
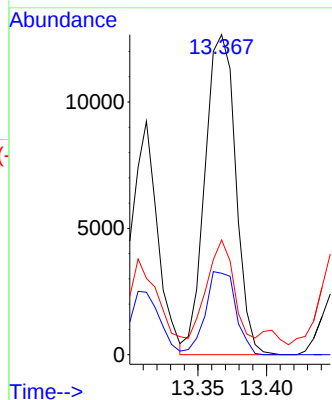
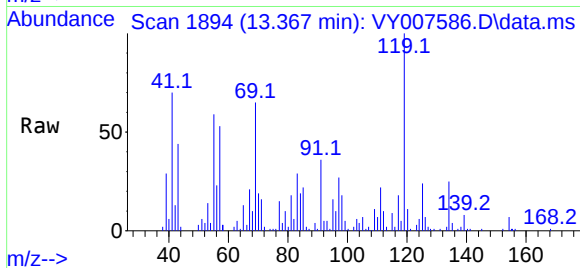




#86
p-Isopropyltoluene
Concen: 10.971 ug/l
RT: 13.367 min Scan# 119
Delta R.T. 0.000 min
Lab File: VY007586.D
Acq: 22 Feb 2022 16:30

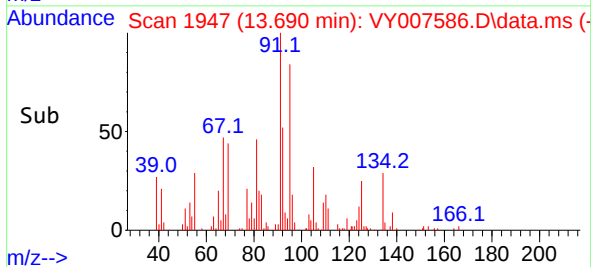
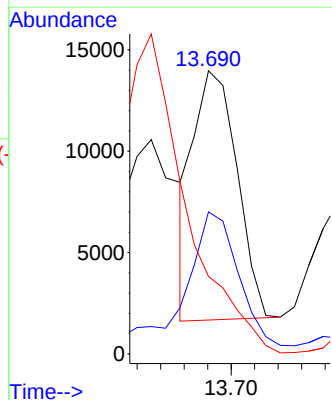
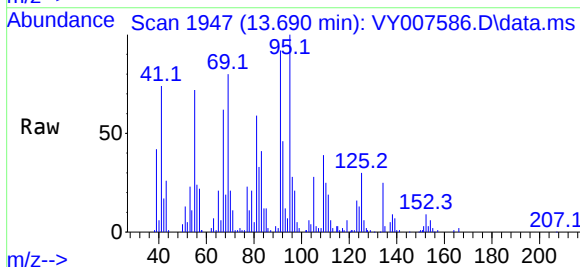
Instrument :
MSVOA_Y
ClientSampleId :
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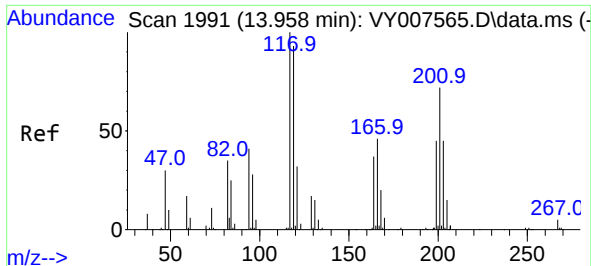
Tgt Ion:	119	Resp:	19776
Ion	Ratio	Lower	Upper
119	100		
134	25.6	13.2	39.5
91	25.6	12.4	37.2



#89
n-Butylbenzene
Concen: 9.589 ug/l
RT: 13.690 min Scan# 1947
Delta R.T. -0.006 min
Lab File: VY007586.D
Acq: 22 Feb 2022 16:30

Tgt Ion:	91	Resp:	15788
Ion	Ratio	Lower	Upper
91	100		
92	70.5	26.3	78.9
134	0.0	13.0	38.9#

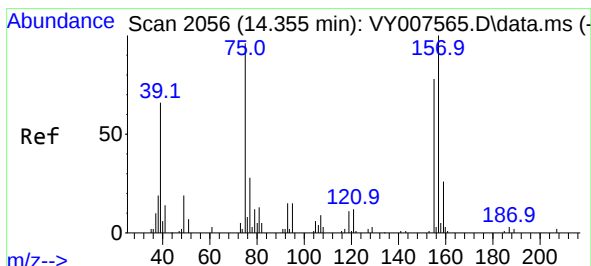
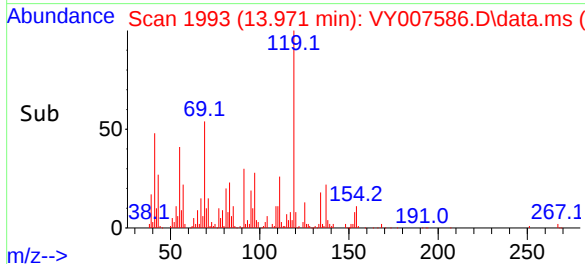
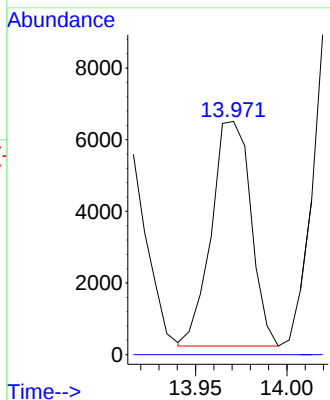
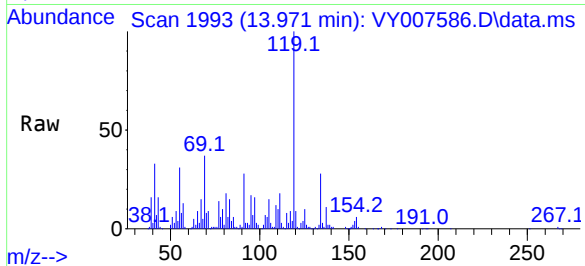




#90
Hexachloroethane
Concen: 26.385 ug/l
RT: 13.971 min Scan# 1993
Delta R.T. 0.013 min
Lab File: VY007586.D
Acq: 22 Feb 2022 16:30

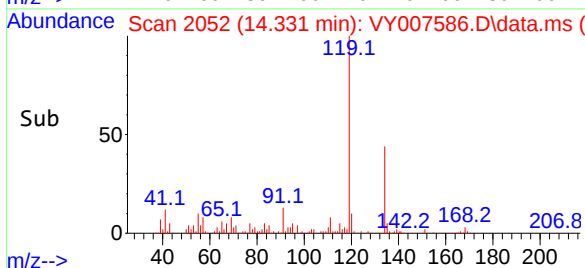
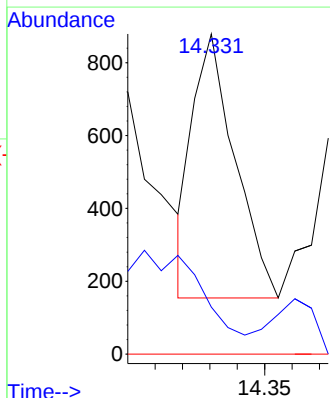
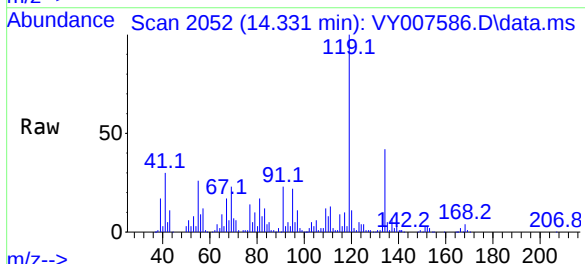
Instrument :
MSVOA_Y
ClientSampleId :
20071

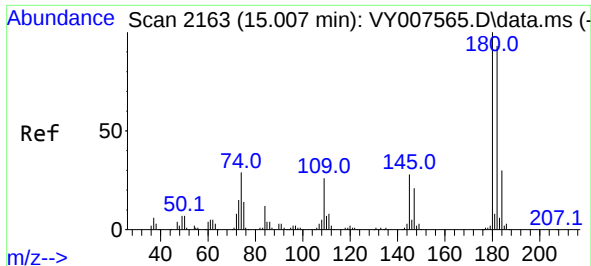
Tgt Ion:117 Resp: 9418
Ion Ratio Lower Upper
117 100
201 0.0 43.0 128.8#



#92
1,2-Dibromo-3-Chloropropane
Concen: 12.115 ug/l
RT: 14.331 min Scan# 2052
Delta R.T. -0.024 min
Lab File: VY007586.D
Acq: 22 Feb 2022 16:30

Tgt Ion: 75 Resp: 776
Ion Ratio Lower Upper
75 100
155 0.0 38.0 113.9#
157 0.0 47.8 143.3#

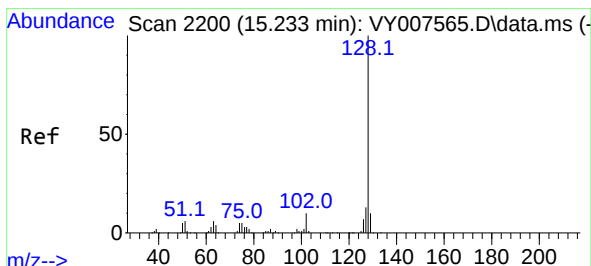
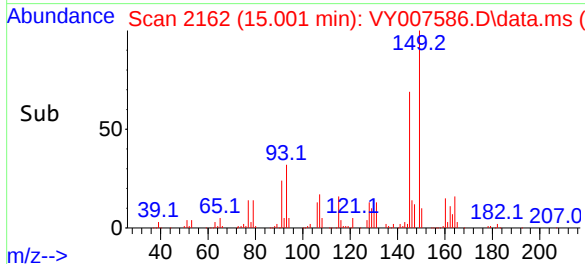
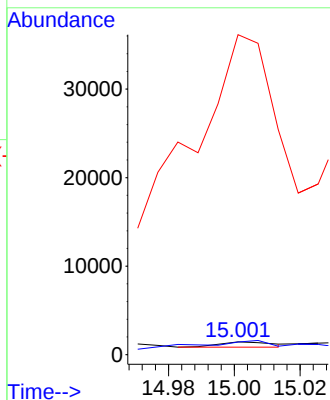
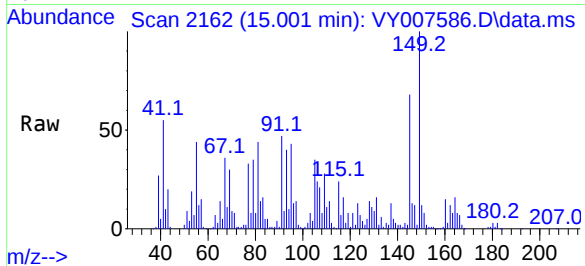




#93
1,2,4-Trichlorobenzene
Concen: 1.306 ug/l
RT: 15.001 min Scan# 2162
Delta R.T. -0.006 min
Lab File: VY007586.D
Acq: 22 Feb 2022 16:30

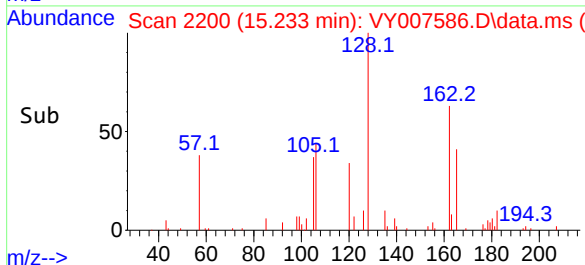
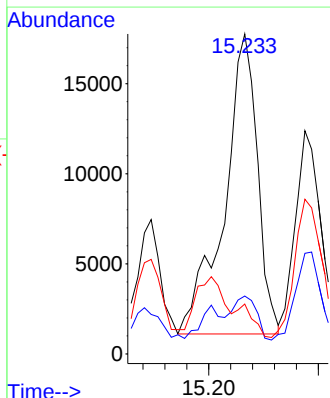
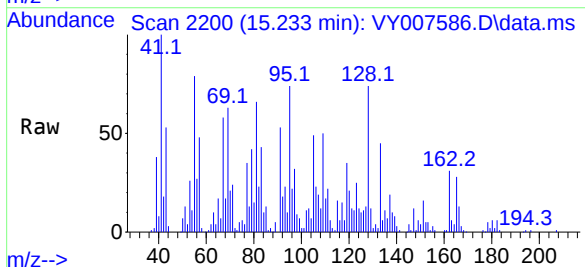
Instrument :
MSVOA_Y
ClientSampleId :
20071

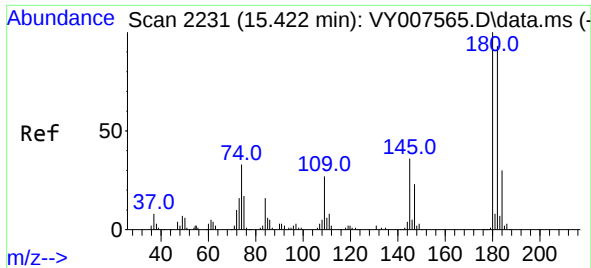
Tgt Ion:180 Resp: 679
Ion Ratio Lower Upper
180 100
182 446.1 47.3 141.9#
145 12393.7 14.6 43.8#



#95
Naphthalene
Concen: 32.216 ug/l
RT: 15.233 min Scan# 2200
Delta R.T. -0.000 min
Lab File: VY007586.D
Acq: 22 Feb 2022 16:30

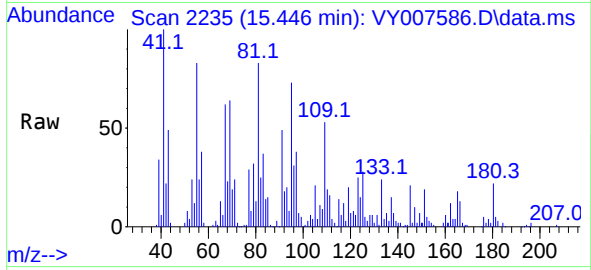
Tgt Ion:128 Resp: 34903
Ion Ratio Lower Upper
128 100
127 10.4 11.0 16.4#
129 0.0 8.4 12.6#





#96
 1,2,3-Trichlorobenzene
 Concen: 18.479 ug/l
 RT: 15.446 min Scan# 21
 Delta R.T. 0.024 min
 Lab File: VY007586.D
 Acq: 22 Feb 2022 16:30

Instrument :
 MSVOA_Y
 ClientSampleId :
 20071



Tgt Ion:180 Resp: 8519
 Ion Ratio Lower Upper
 180 100
 182 0.0 47.3 141.9#
 145 398.1 15.3 45.9#

