

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY021622\
 Data File : VY007513.D
 Acq On : 16 Feb 2022 16:39
 Operator : SY/MD
 Sample : N1465-08
 Misc : 5.91g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 A5-8-8.0

Quant Time: Feb 17 02:58:26 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	98590	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.691	114	171002	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.490	117	165850	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.428	152	69803	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.143	65	60707	55.772	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 111.540%	
35) Dibromofluoromethane	7.722	113	55934	51.868	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 103.740%	
50) Toluene-d8	10.179	98	212408	51.860	ug/l	0.00
Spiked Amount	50.000	Range	49 - 140	Recovery	= 103.720%	
62) 4-Bromofluorobenzene	12.483	95	75021	54.018	ug/l	0.00
Spiked Amount	50.000	Range	25 - 144	Recovery	= 108.040%	

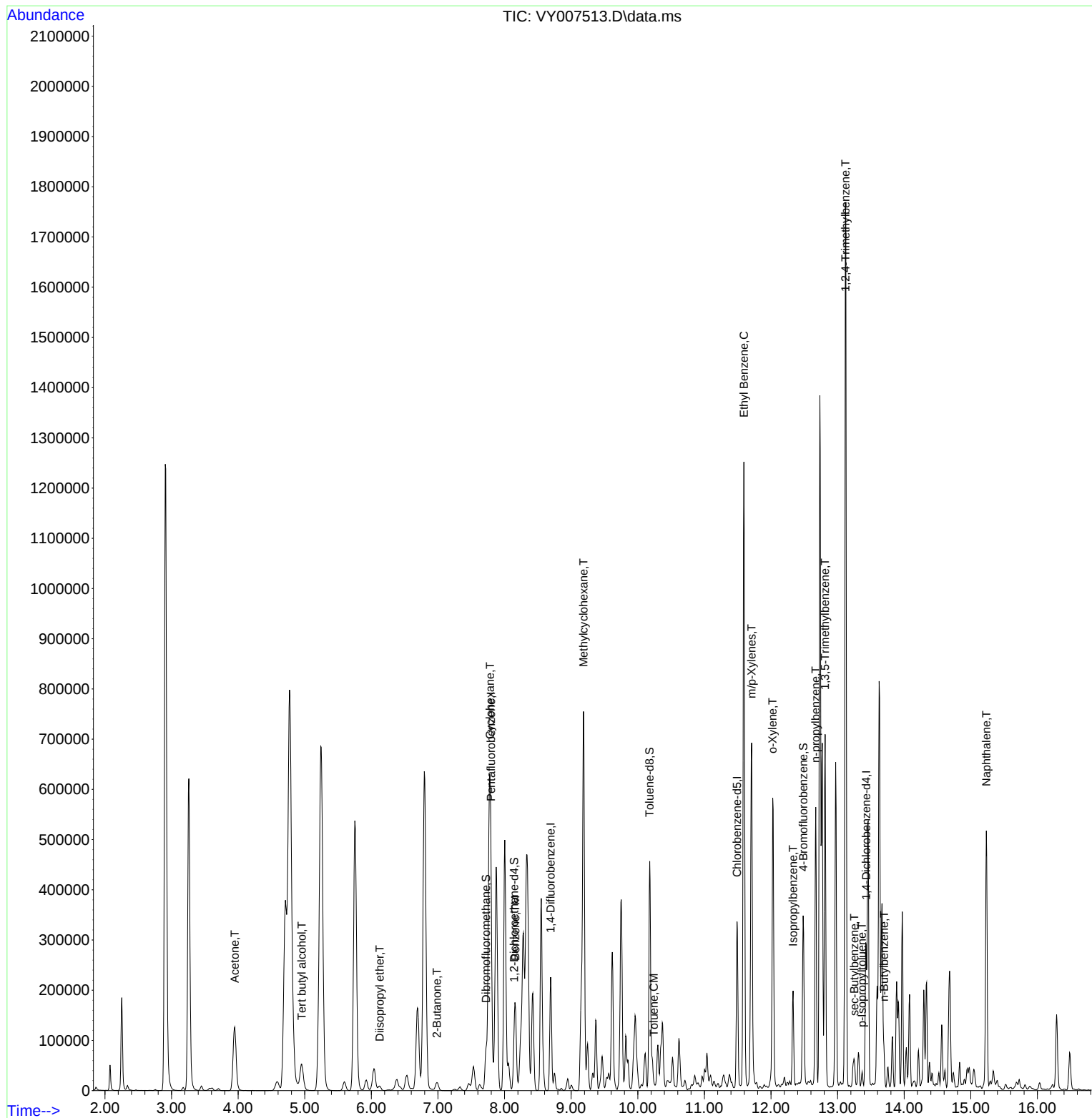
Target Compounds			Qvalue			
11) Tert butyl alcohol	4.954	59	112973	1326.803	ug/l #	94
16) Acetone	3.948	43	79644	275.787	ug/l #	69
22) Diisopropyl ether	6.125	45	9926	3.138	ug/l #	81
25) 2-Butanone	6.984	43	10969	30.677	ug/l #	84
31) Cyclohexane	7.783	56	234161	121.648	ug/l	96
39) Methylcyclohexane	9.185	83	314309	138.563	ug/l	88
40) Benzene	8.161	78	139400	29.018	ug/l	97
52) Toluene	10.240	92	3426	1.112	ug/l	99
67) Ethyl Benzene	11.593	91	837351	123.166	ug/l	100
68) m/p-Xylenes	11.709	106	192176	74.692	ug/l	100
69) o-Xylene	12.026	106	146694	60.255	ug/l	100
73) Isopropylbenzene	12.331	105	118003	19.082	ug/l	100
78) n-propylbenzene	12.672	91	404413	54.346	ug/l	100
80) 1,3,5-Trimethylbenzene	12.813	105	354669	69.240	ug/l	97
84) 1,2,4-Trimethylbenzene	13.117	105	959448	193.177	ug/l	99
85) sec-Butylbenzene	13.251	105	31924	4.837	ug/l #	60
86) p-Isopropyltoluene	13.367	119	14509	2.669	ug/l	99
89) n-Butylbenzene	13.697	91	37152	7.187	ug/l #	70
95) Naphthalene	15.233	128	407148	137.096	ug/l	99

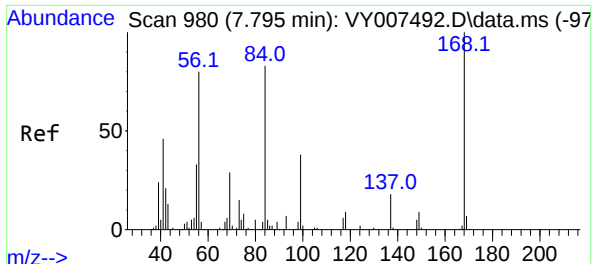
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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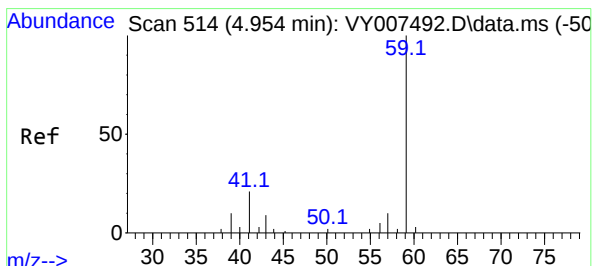
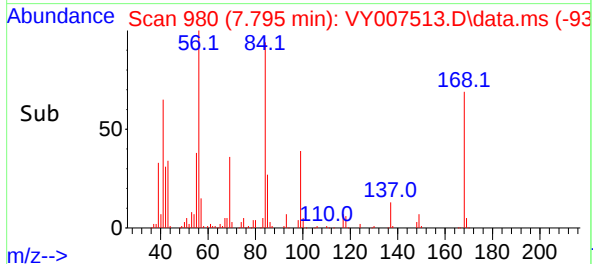
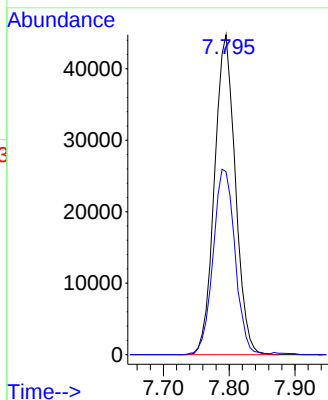
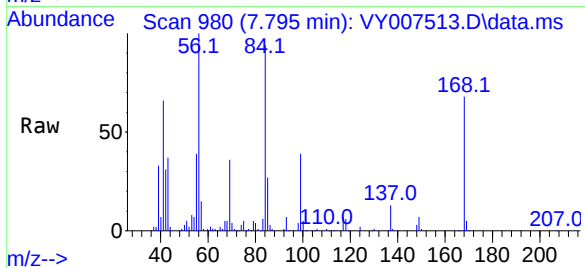




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.795 min Scan# 91
Delta R.T. 0.000 min
Lab File: VY007513.D
Acq: 16 Feb 2022 16:39

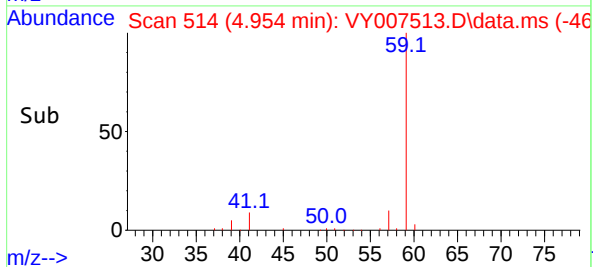
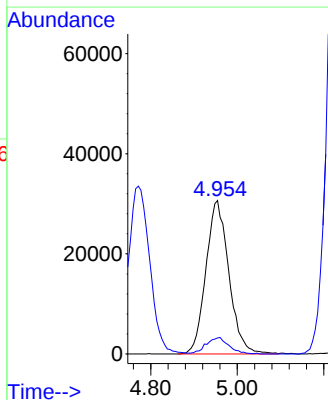
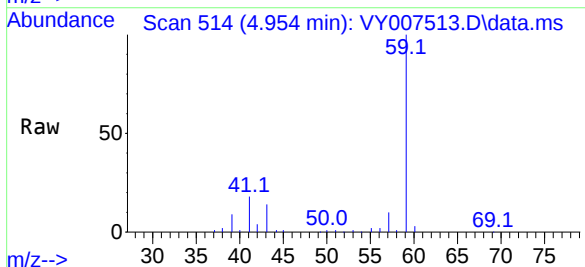
Instrument :
MSVOA_Y
ClientSampleId :
A5-8-8.0

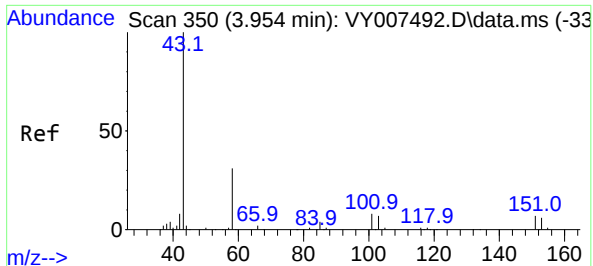
Tgt Ion:168 Resp: 98590
Ion Ratio Lower Upper
168 100
99 57.2 46.9 70.3



#11
Tert butyl alcohol
Concen: 1326.803 ug/l
RT: 4.954 min Scan# 514
Delta R.T. 0.006 min
Lab File: VY007513.D
Acq: 16 Feb 2022 16:39

Tgt Ion: 59 Resp: 112973
Ion Ratio Lower Upper
59 100
57 10.2 6.4 9.6#

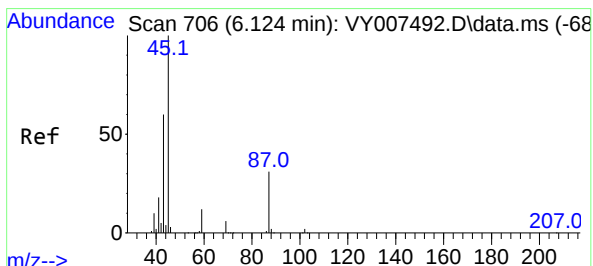
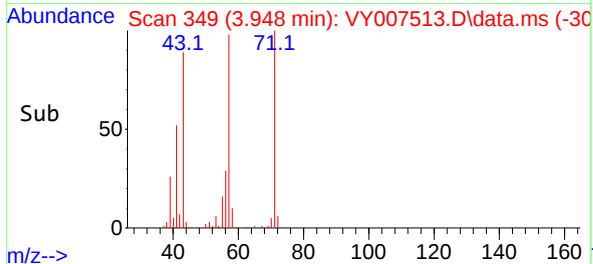
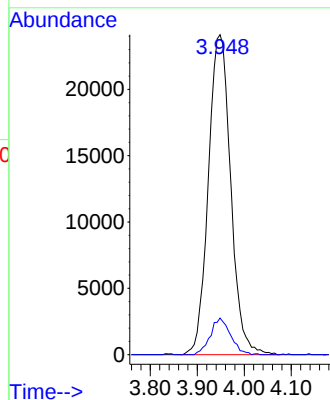
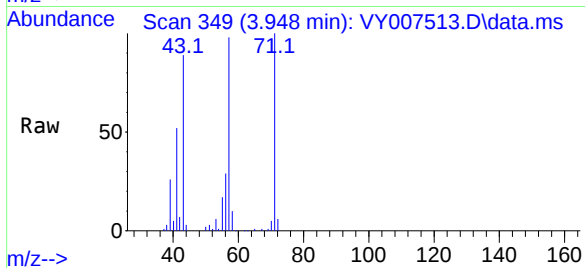




#16
Acetone
Concen: 275.787 ug/l
RT: 3.948 min Scan# 34
Delta R.T. 0.000 min
Lab File: VY007513.D
Acq: 16 Feb 2022 16:39

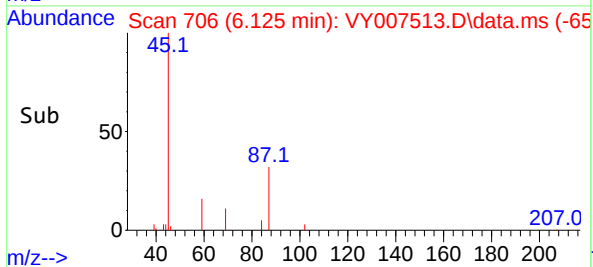
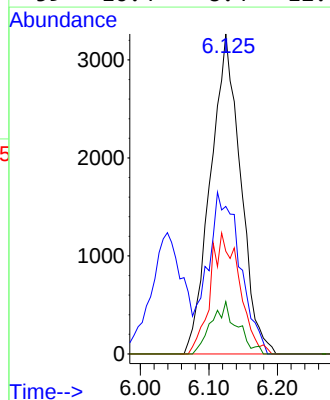
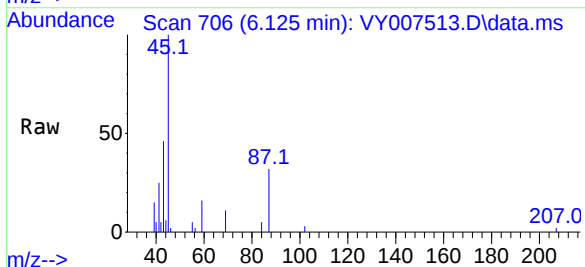
Instrument :
MSVOA_Y
ClientSampleId :
A5-8-8.0

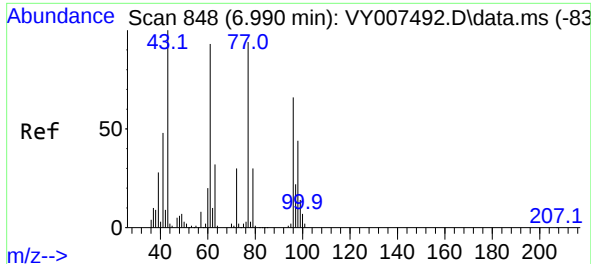
Tgt Ion: 43 Resp: 79644
Ion Ratio Lower Upper
43 100
58 11.5 22.0 33.0#



#22
Diisopropyl ether
Concen: 3.138 ug/l
RT: 6.125 min Scan# 706
Delta R.T. -0.000 min
Lab File: VY007513.D
Acq: 16 Feb 2022 16:39

Tgt Ion: 45 Resp: 9926
Ion Ratio Lower Upper
45 100
43 46.1 49.3 73.9#
87 32.1 19.2 28.8#
59 16.4 8.4 12.6#

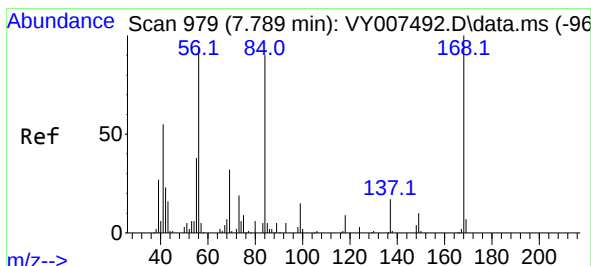
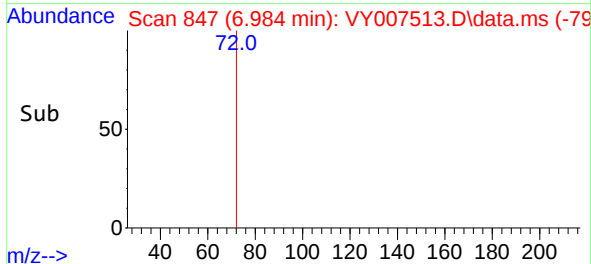
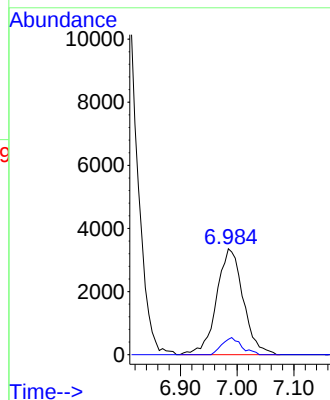
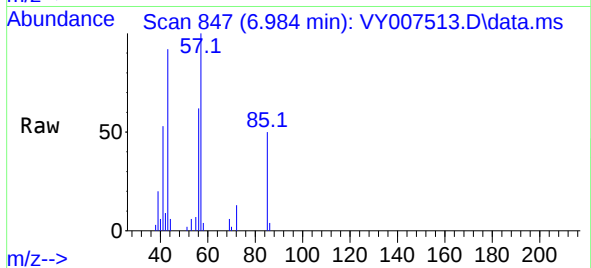




#25
2-Butanone
Concen: 30.677 ug/l
RT: 6.984 min Scan# 84
Delta R.T. -0.006 min
Lab File: VY007513.D
Acq: 16 Feb 2022 16:39

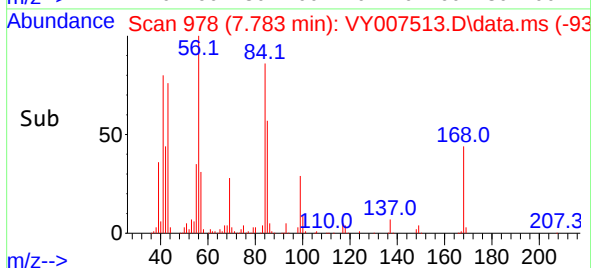
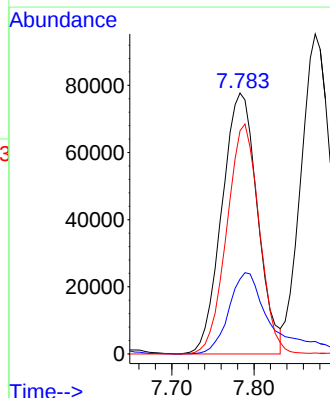
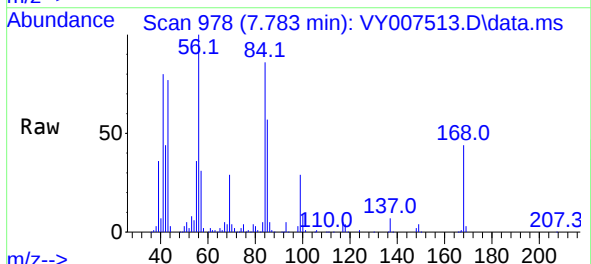
Instrument :
MSVOA_Y
ClientSampleId :
A5-8-8.0

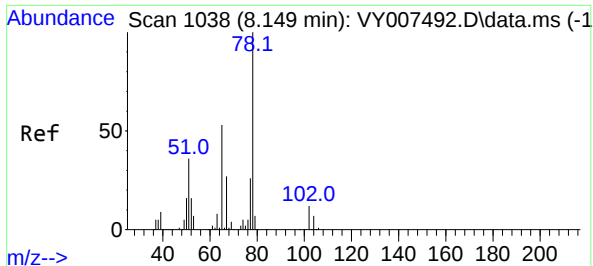
Tgt Ion: 43 Resp: 10969
Ion Ratio Lower Upper
43 100
72 14.5 17.7 26.5#



#31
Cyclohexane
Concen: 121.648 ug/l
RT: 7.783 min Scan# 978
Delta R.T. -0.006 min
Lab File: VY007513.D
Acq: 16 Feb 2022 16:39

Tgt Ion: 56 Resp: 234161
Ion Ratio Lower Upper
56 100
69 28.7 26.7 40.1
84 85.5 67.2 100.8





#33

1,2-Dichloroethane-d4

Concen: 55.772 ug/l

RT: 8.143 min Scan# 1038

Delta R.T. -0.000 min

Lab File: VY007513.D

Acq: 16 Feb 2022 16:39

Instrument :

MSVOA_Y

ClientSampleId :

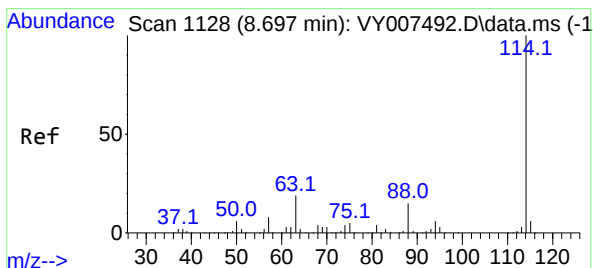
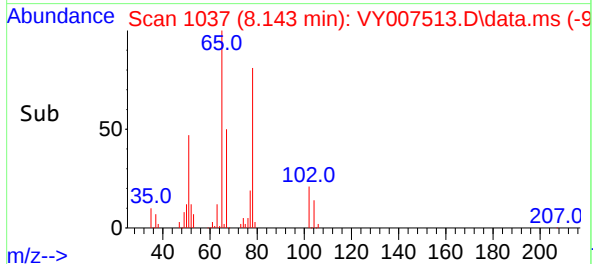
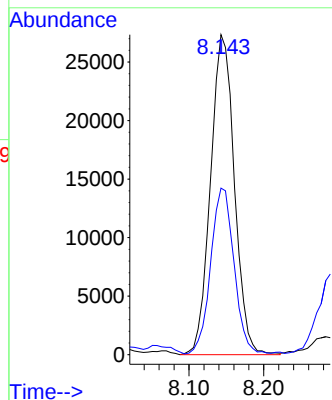
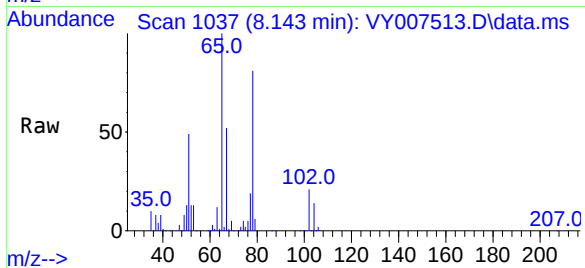
A5-8-8.0

Tgt Ion: 65 Resp: 60707

Ion Ratio Lower Upper

65 100

67 50.5 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: VY007513.D

Acq: 16 Feb 2022 16:39

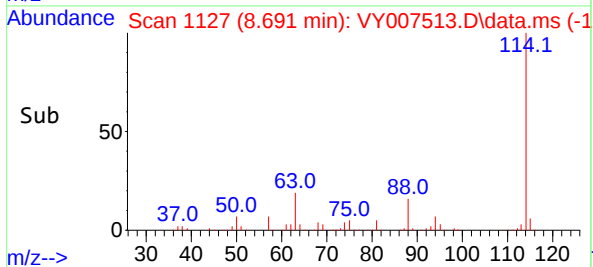
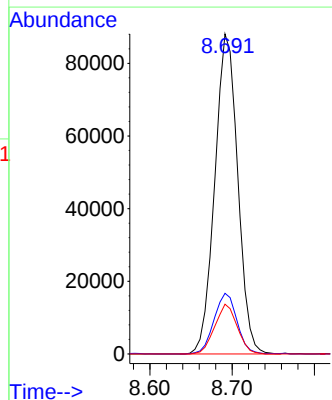
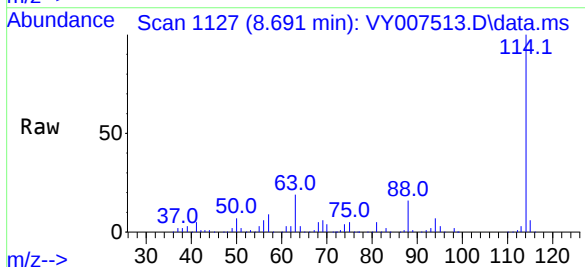
Tgt Ion: 114 Resp: 171002

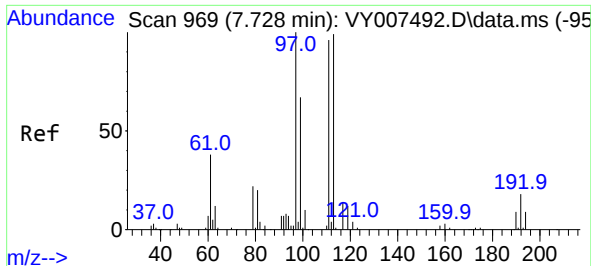
Ion Ratio Lower Upper

114 100

63 18.9 0.0 43.2

88 15.6 0.0 31.8

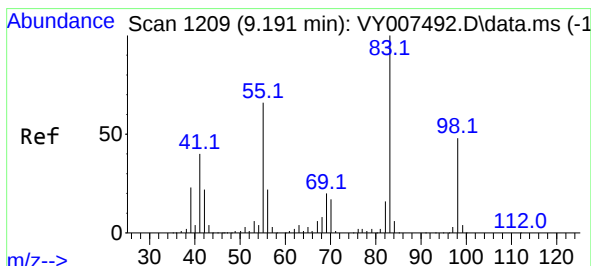
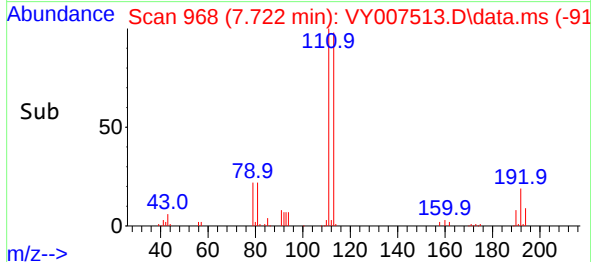
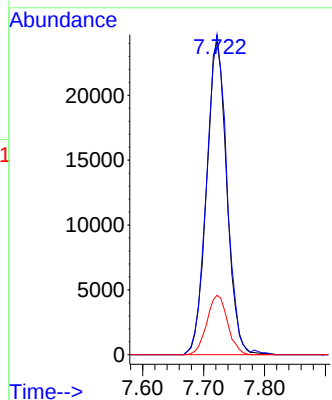
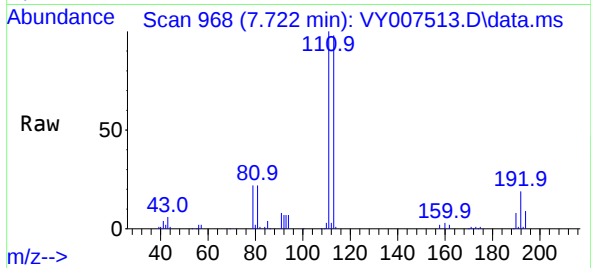




#35
Dibromofluoromethane
Concen: 51.868 ug/l
RT: 7.722 min Scan# 969
Delta R.T. 0.000 min
Lab File: VY007513.D
Acq: 16 Feb 2022 16:39

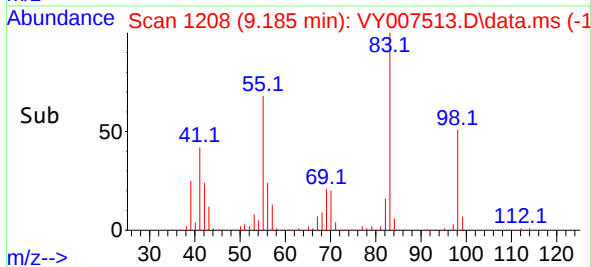
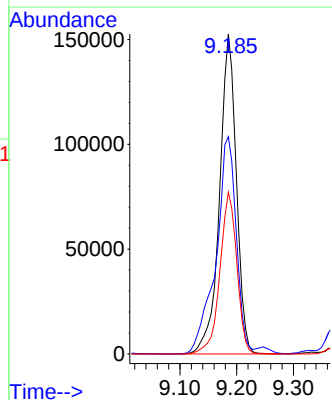
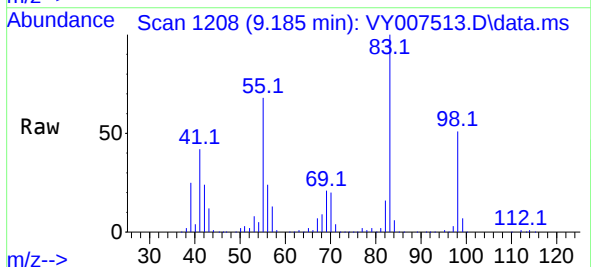
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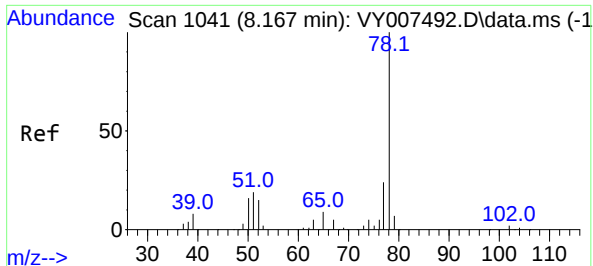
Tgt Ion:113 Resp: 55934
Ion Ratio Lower Upper
113 100
111 102.6 82.6 124.0
192 19.3 17.6 26.4



#39
Methylcyclohexane
Concen: 138.563 ug/l
RT: 9.185 min Scan# 1208
Delta R.T. 0.000 min
Lab File: VY007513.D
Acq: 16 Feb 2022 16:39

Tgt Ion: 83 Resp: 314309
Ion Ratio Lower Upper
83 100
55 67.8 66.5 99.7
98 50.6 37.9 56.9

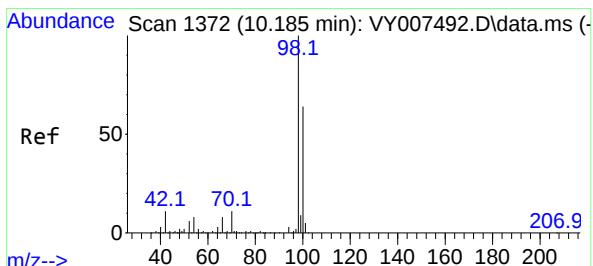
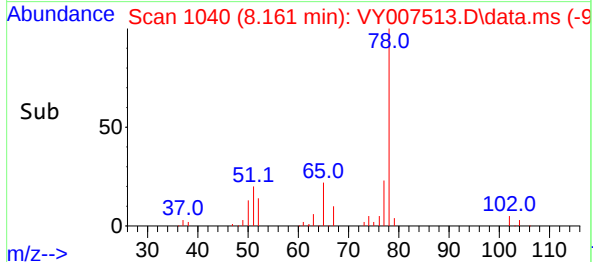
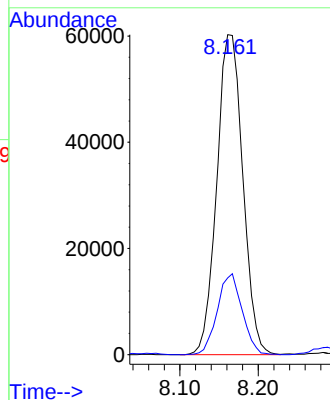
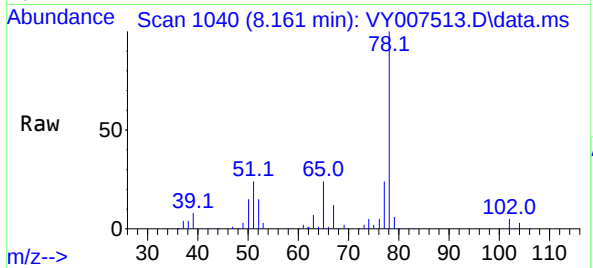




#40
Benzene
Concen: 29.018 ug/l
RT: 8.161 min Scan# 1040
Delta R.T. -0.006 min
Lab File: VY007513.D
Acq: 16 Feb 2022 16:39

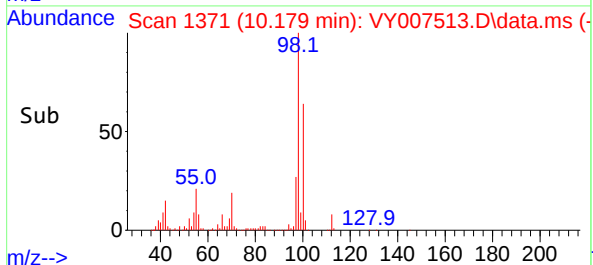
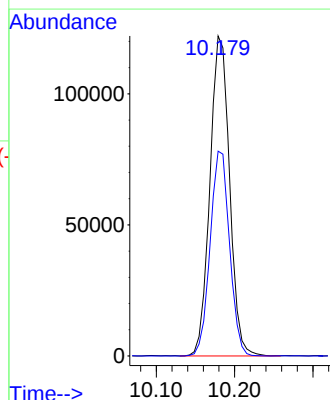
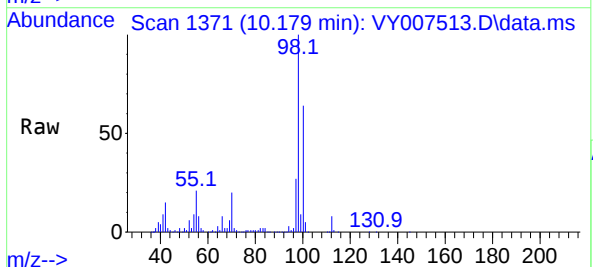
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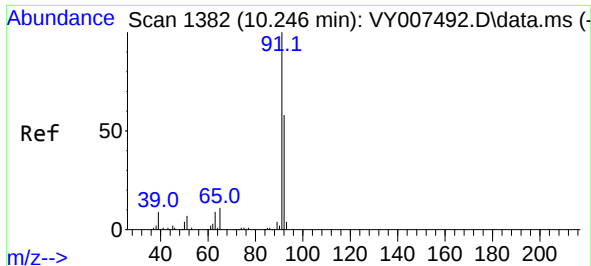
Tgt Ion: 78 Resp: 139400
Ion Ratio Lower Upper
78 100
77 24.0 20.4 30.6



#50
Toluene-d8
Concen: 51.860 ug/l
RT: 10.179 min Scan# 1371
Delta R.T. -0.006 min
Lab File: VY007513.D
Acq: 16 Feb 2022 16:39

Tgt Ion: 98 Resp: 212408
Ion Ratio Lower Upper
98 100
100 63.2 50.2 75.2

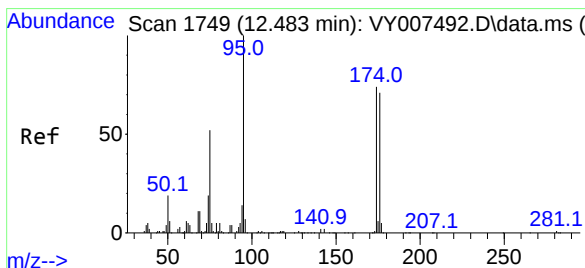
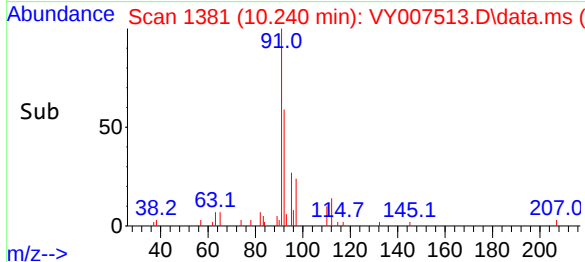
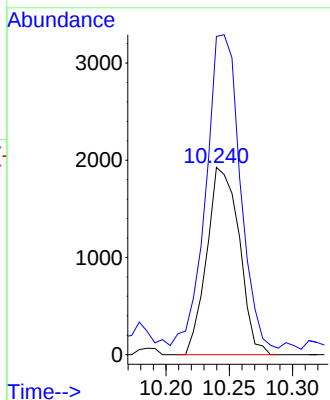
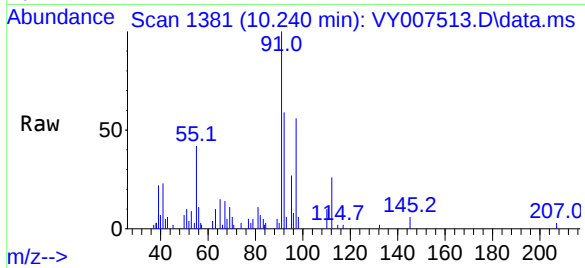




#52
Toluene
Concen: 1.112 ug/l
RT: 10.240 min Scan# 1382
Delta R.T. -0.006 min
Lab File: VY007513.D
Acq: 16 Feb 2022 16:39

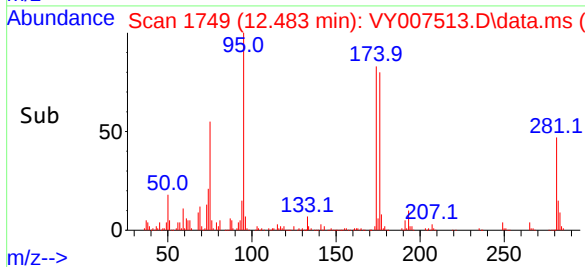
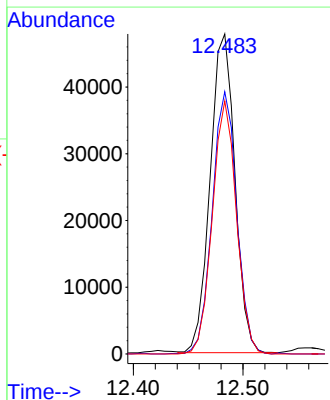
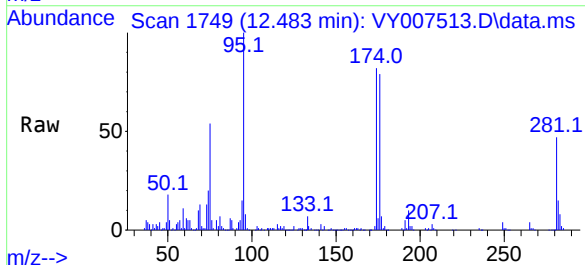
Instrument :
MSVOA_Y
ClientSampleId :
A5-8-8.0

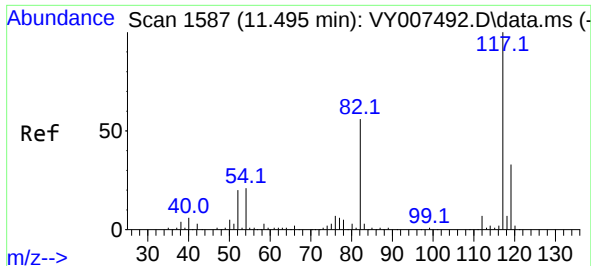
Tgt Ion: 92 Resp: 3426
Ion Ratio Lower Upper
92 100
91 177.1 142.6 213.8



#62
4-Bromofluorobenzene
Concen: 54.018 ug/l
RT: 12.483 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VY007513.D
Acq: 16 Feb 2022 16:39

Tgt Ion: 95 Resp: 75021
Ion Ratio Lower Upper
95 100
174 81.4 0.0 177.0
176 77.2 0.0 175.8

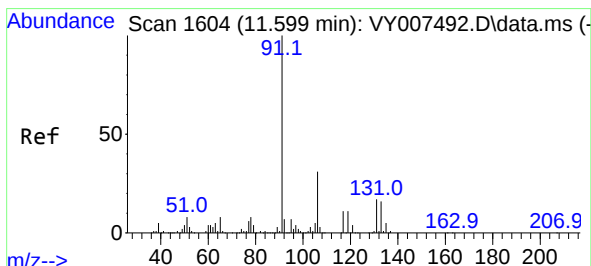
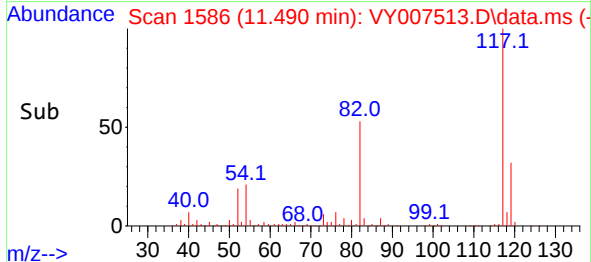
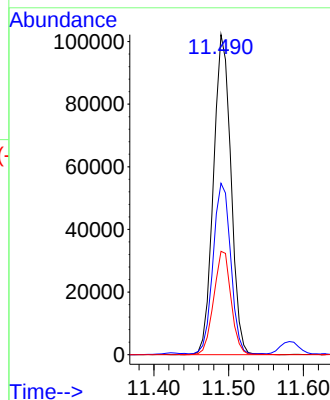
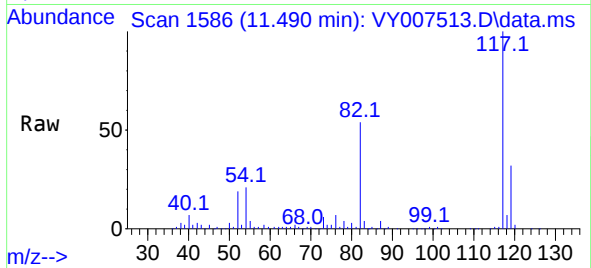




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.490 min Scan# 11
Delta R.T. 0.000 min
Lab File: VY007513.D
Acq: 16 Feb 2022 16:39

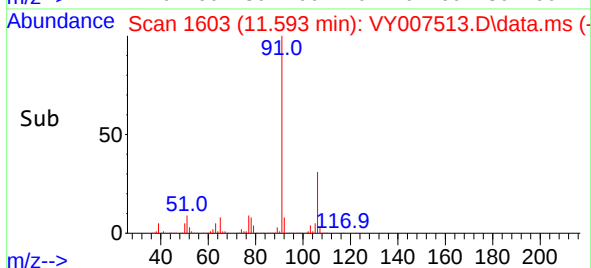
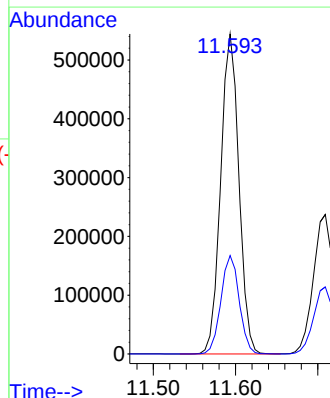
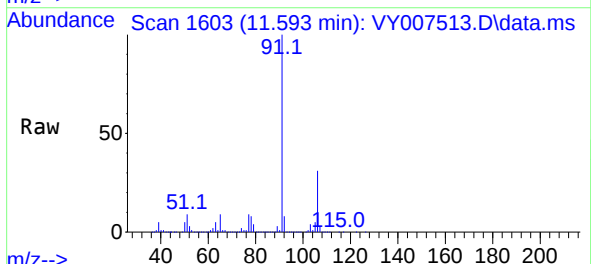
Instrument :
MSVOA_Y
ClientSampleId :
A5-8-8.0

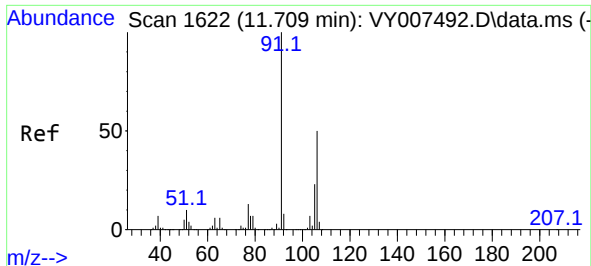
Tgt Ion:117 Resp: 165850
Ion Ratio Lower Upper
117 100
82 53.2 43.0 64.4
119 32.3 25.4 38.0



#67
Ethyl Benzene
Concen: 123.166 ug/l
RT: 11.593 min Scan# 1603
Delta R.T. 0.000 min
Lab File: VY007513.D
Acq: 16 Feb 2022 16:39

Tgt Ion: 91 Resp: 837351
Ion Ratio Lower Upper
91 100
106 30.8 24.5 36.7

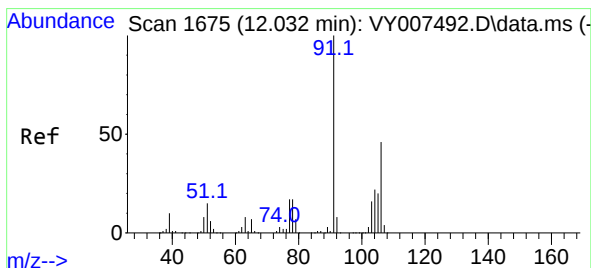
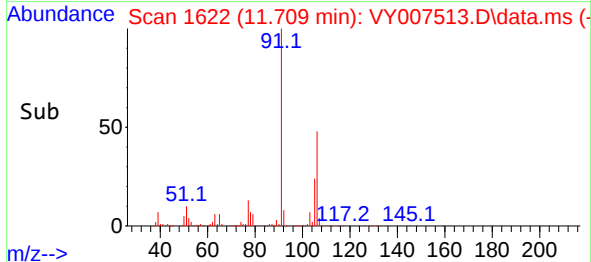
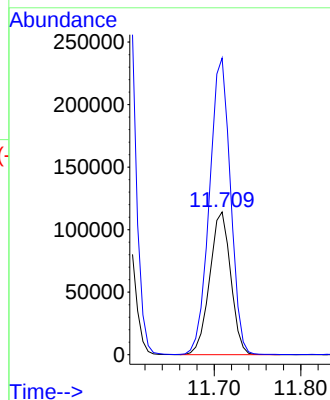
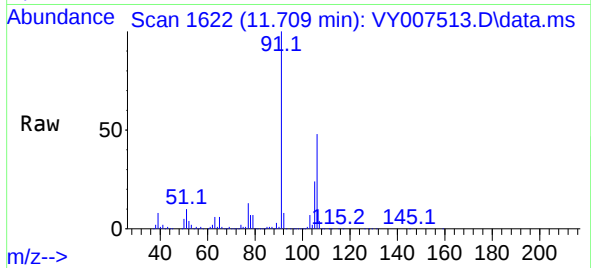




#68
m/p-Xylenes
Concen: 74.692 ug/l
RT: 11.709 min Scan# 11
Delta R.T. 0.006 min
Lab File: VY007513.D
Acq: 16 Feb 2022 16:39

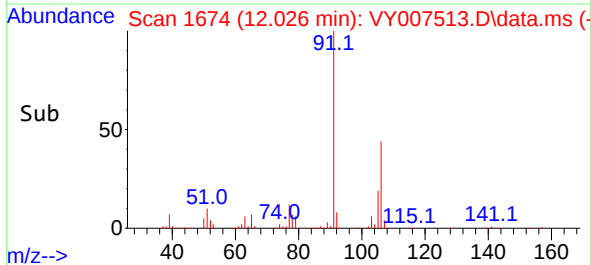
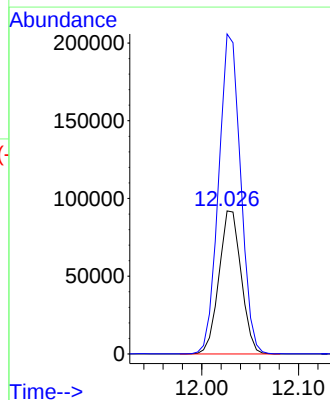
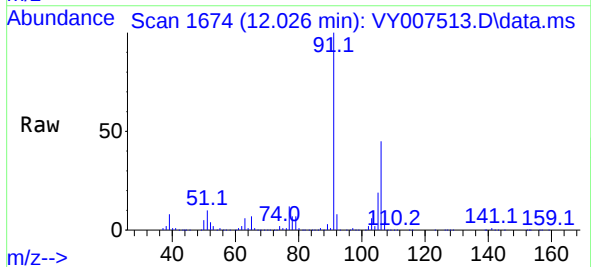
Instrument :
MSVOA_Y
ClientSampleId :
A5-8-8.0

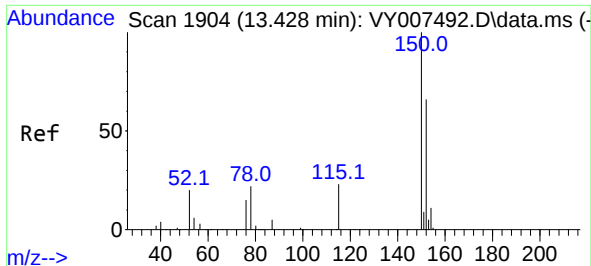
Tgt Ion:106 Resp: 192176
Ion Ratio Lower Upper
106 100
91 208.3 166.6 249.8



#69
o-Xylene
Concen: 60.255 ug/l
RT: 12.026 min Scan# 1674
Delta R.T. -0.006 min
Lab File: VY007513.D
Acq: 16 Feb 2022 16:39

Tgt Ion:106 Resp: 146694
Ion Ratio Lower Upper
106 100
91 221.4 110.3 331.0

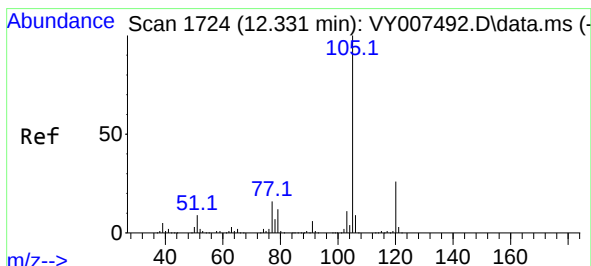
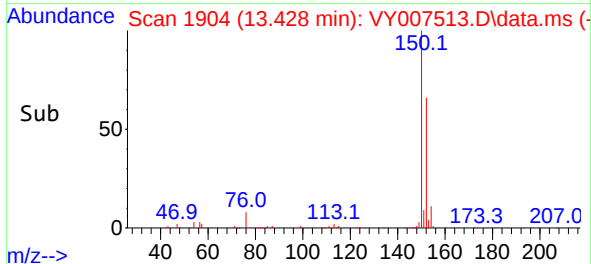
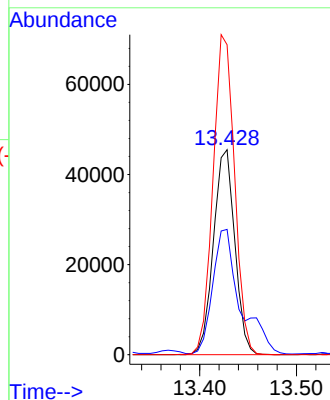
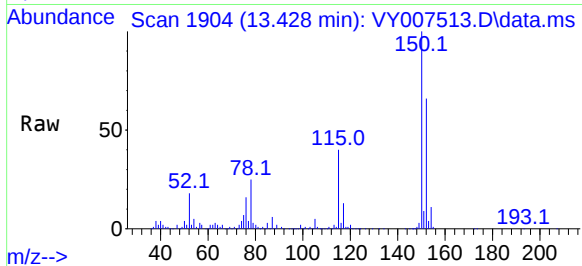




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.428 min Scan# 1904
Delta R.T. 0.006 min
Lab File: VY007513.D
Acq: 16 Feb 2022 16:39

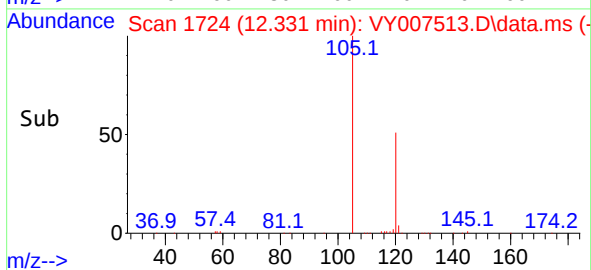
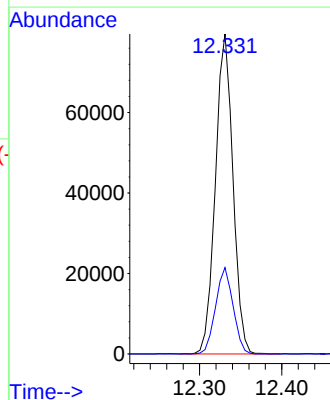
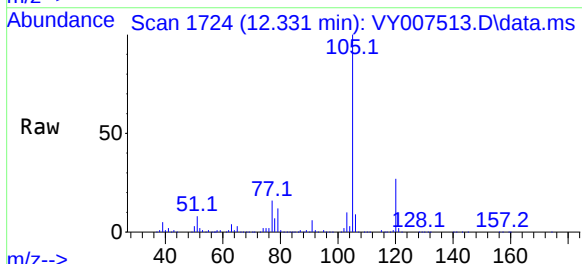
Instrument :
MSVOA_Y
ClientSampleId :
A5-8-8.0

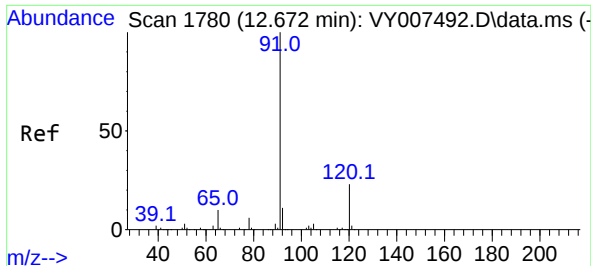
Tgt Ion:152 Resp: 69803
Ion Ratio Lower Upper
152 100
115 78.1 28.2 84.7
150 157.6 0.0 347.6



#73
Isopropylbenzene
Concen: 19.082 ug/l
RT: 12.331 min Scan# 1724
Delta R.T. -0.000 min
Lab File: VY007513.D
Acq: 16 Feb 2022 16:39

Tgt Ion:105 Resp: 118003
Ion Ratio Lower Upper
105 100
120 26.9 13.4 40.2

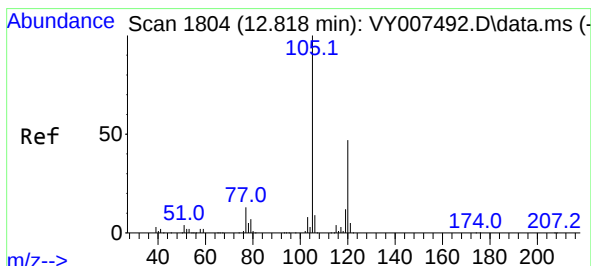
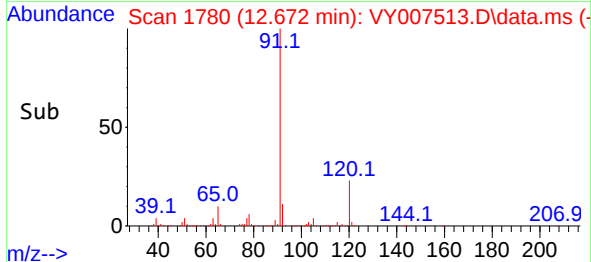
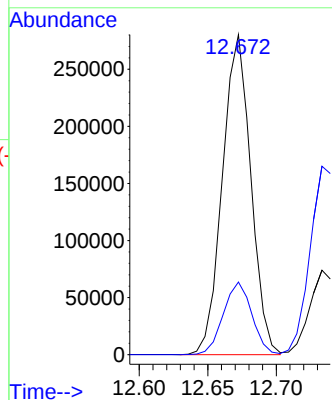
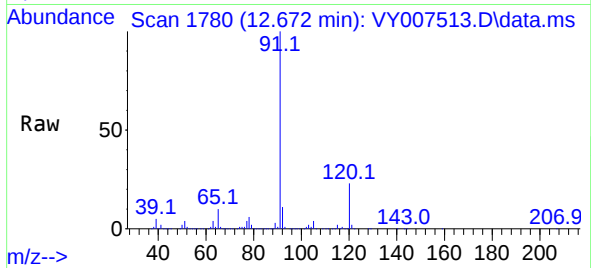




#78
n-propylbenzene
Concen: 54.346 ug/l
RT: 12.672 min Scan# 1780
Delta R.T. 0.000 min
Lab File: VY007513.D
Acq: 16 Feb 2022 16:39

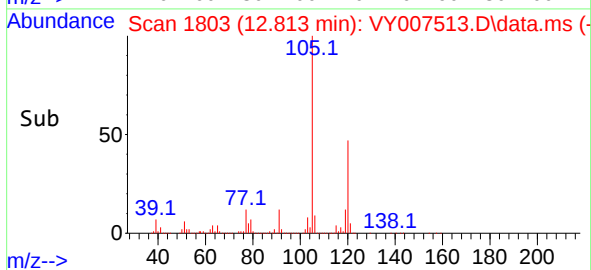
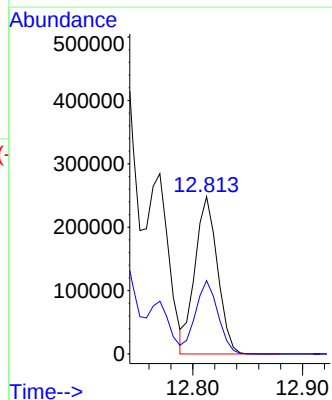
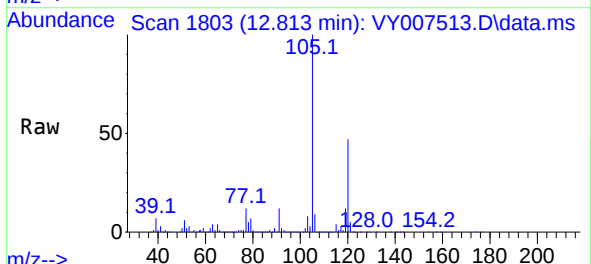
Instrument :
MSVOA_Y
ClientSampleId :
A5-8-8.0

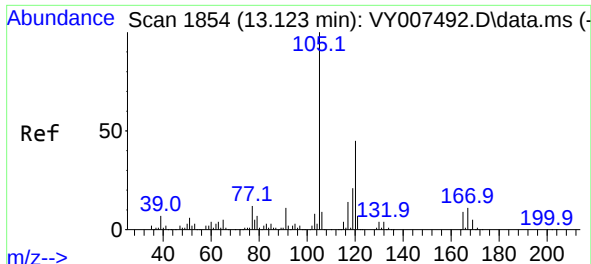
Tgt Ion: 91 Resp: 404413
Ion Ratio Lower Upper
91 100
120 22.8 11.3 33.9



#80
1,3,5-Trimethylbenzene
Concen: 69.240 ug/l
RT: 12.813 min Scan# 1803
Delta R.T. 0.001 min
Lab File: VY007513.D
Acq: 16 Feb 2022 16:39

Tgt Ion: 105 Resp: 354669
Ion Ratio Lower Upper
105 100
120 46.7 24.4 73.4

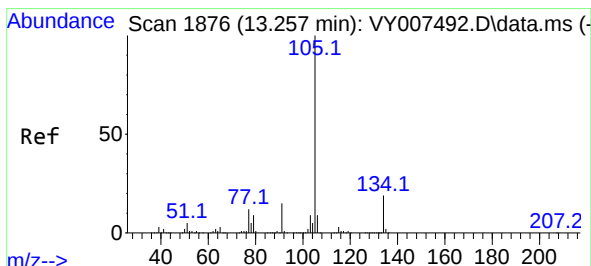
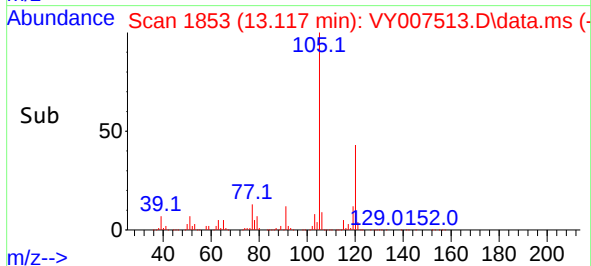
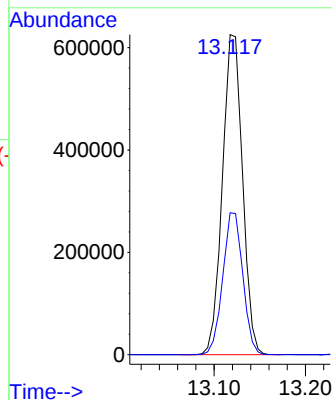
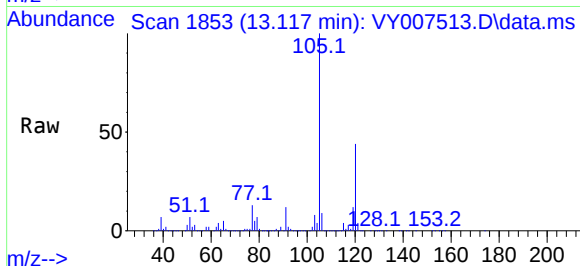




#84
1,2,4-Trimethylbenzene
Concen: 193.177 ug/l
RT: 13.117 min Scan# 11
Delta R.T. 0.000 min
Lab File: VY007513.D
Acq: 16 Feb 2022 16:39

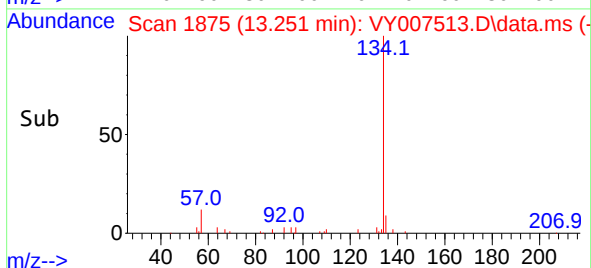
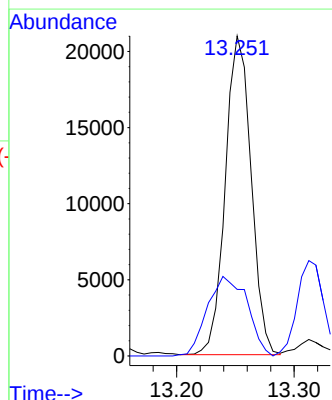
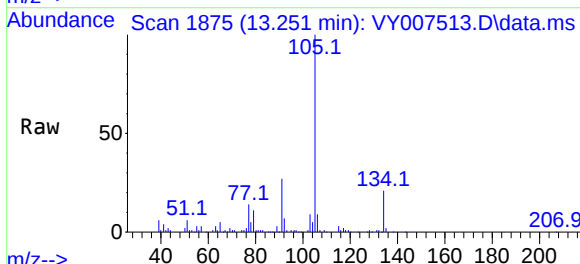
Instrument :
MSVOA_Y
ClientSampleId :
A5-8-8.0

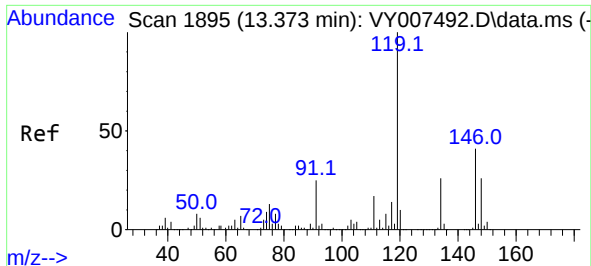
Tgt Ion:105 Resp: 959448
Ion Ratio Lower Upper
105 100
120 44.2 22.3 66.9



#85
sec-Butylbenzene
Concen: 4.837 ug/l
RT: 13.251 min Scan# 1875
Delta R.T. 0.000 min
Lab File: VY007513.D
Acq: 16 Feb 2022 16:39

Tgt Ion:105 Resp: 31924
Ion Ratio Lower Upper
105 100
134 38.6 10.2 30.4#

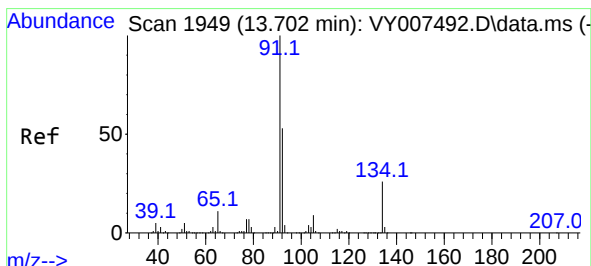
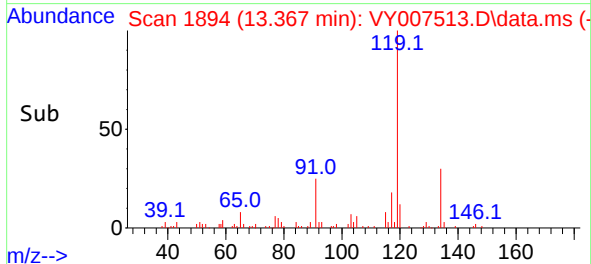
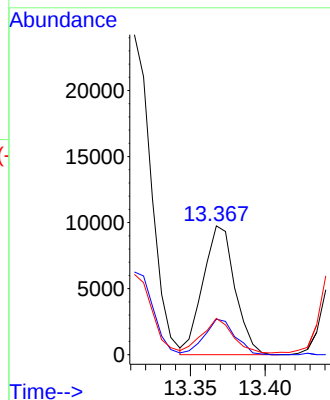
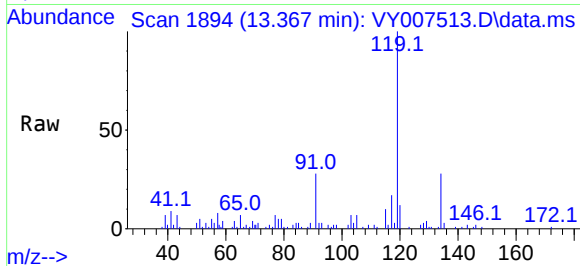




#86
p-Isopropyltoluene
Concen: 2.669 ug/l
RT: 13.367 min Scan# 119
Delta R.T. 0.000 min
Lab File: VY007513.D
Acq: 16 Feb 2022 16:39

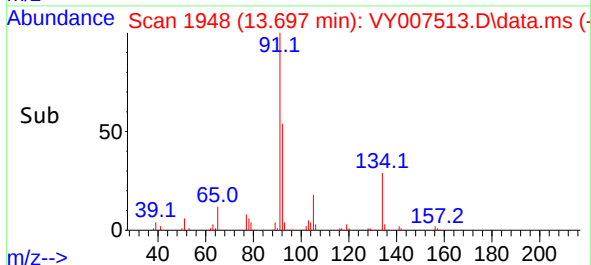
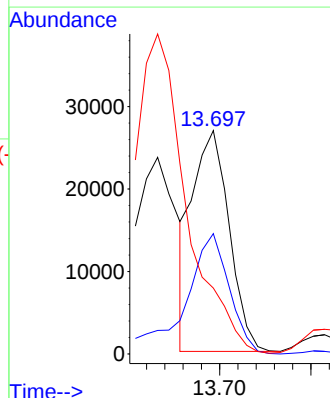
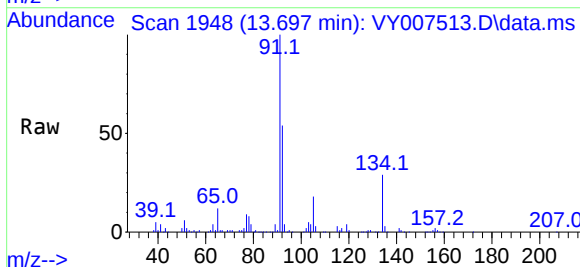
Instrument :
MSVOA_Y
ClientSampleId :
A5-8-8.0

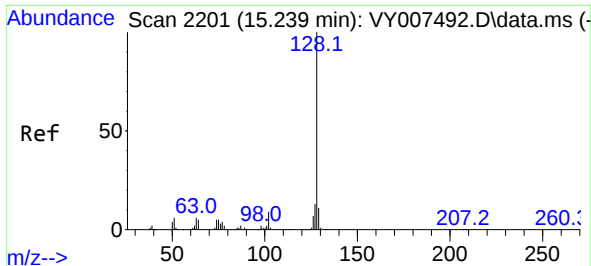
Tgt Ion:119 Resp: 14509
Ion Ratio Lower Upper
119 100
134 26.4 13.2 39.5
91 25.5 12.4 37.2



#89
n-Butylbenzene
Concen: 7.187 ug/l
RT: 13.697 min Scan# 1948
Delta R.T. 0.001 min
Lab File: VY007513.D
Acq: 16 Feb 2022 16:39

Tgt Ion: 91 Resp: 37152
Ion Ratio Lower Upper
91 100
92 66.1 26.3 78.9
134 0.0 13.0 38.9#





#95

Naphthalene

Concen: 137.096 ug/l

RT: 15.233 min Scan# 21

Delta R.T. -0.000 min

Lab File: VY007513.D

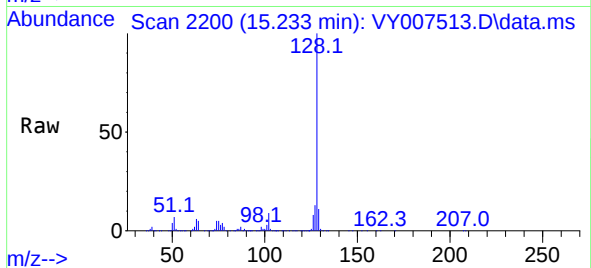
Acq: 16 Feb 2022 16:39

Instrument :

MSVOA_Y

ClientSampleId :

A5-8-8.0



Tgt Ion:128 Resp: 407148

Ion Ratio Lower Upper

128 100

127 13.2 11.0 16.4

129 10.8 8.4 12.6

