

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY080421\
 Data File : VY005538.D
 Acq On : 04 Aug 2021 15:24
 Operator : SY/MD
 Sample : M3281-01
 Misc : 6.72G/5ML/MSVOA_Y/SOIL
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 TWP03

Manual Integrations
 APPROVED

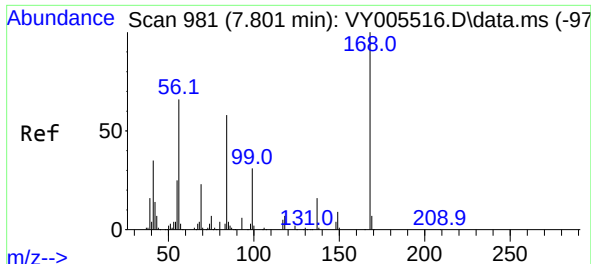
MMDadoda
 8/6/2021 5:40:16 PM

Quant Time: Aug 05 06:40:09 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y080221S.M
 Quant Title : SW846 8260
 QLast Update : Tue Aug 03 04:52:05 2021
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.795	168	191522	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.697	114	306882	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.496	117	269937	50.000	ug/l	# 0.00
72) 1,4-Dichlorobenzene-d4	13.428	152	237267	50.000	ug/l	# 0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.149	65	112801	58.184	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 116.360%	
35) Dibromofluoromethane	7.728	113	90639	52.754	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 105.500%	
50) Toluene-d8	10.185	98	484173	67.192	ug/l	0.00
Spiked Amount	50.000	Range	49 - 140	Recovery	= 134.380%	
62) 4-Bromofluorobenzene	12.477	95	322189	135.021	ug/l	0.00
Spiked Amount	50.000	Range	25 - 144	Recovery	= 270.040%#	
Target Compounds						Qvalue
16) Acetone	3.954	43	17053	34.888	ug/l	99
17) Carbon Disulfide	4.204	76	15173	2.982	ug/l	99
25) 2-Butanone	6.990	43	6692	9.262	ug/l #	66
31) Cyclohexane	7.795	56	63554	19.112	ug/l	96
39) Methylcyclohexane	9.185	83	454419	124.091	ug/l	97
40) Benzene	8.167	78	33500	4.064	ug/l	94
52) Toluene	10.246	92	32301	6.146	ug/l	95
67) Ethyl Benzene	11.593	91	49386	5.014	ug/l	97
68) m/p-Xylenes	11.703	106	71871	18.786	ug/l	81
69) o-Xylene	12.032	106	33147	9.014	ug/l	32
70) Styrene	12.044	104	13603	2.198	ug/l #	55
73) Isopropylbenzene	12.331	105	321902	19.436	ug/l	98
78) n-propylbenzene	12.672	91	489398	24.880	ug/l	97
80) 1,3,5-Trimethylbenzene	12.819	105	106240	7.730	ug/l	99
83) tert-Butylbenzene	13.081	119	160095	12.981	ug/l	87
84) 1,2,4-Trimethylbenzene	13.123	105	286645	21.136	ug/l	99
85) sec-Butylbenzene	13.258	105	1058807	59.520	ug/l #	71
86) p-Isopropyltoluene	13.373	119	51329m	3.361	ug/l	
89) n-Butylbenzene	13.703	91	650249	46.995	ug/l #	74

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



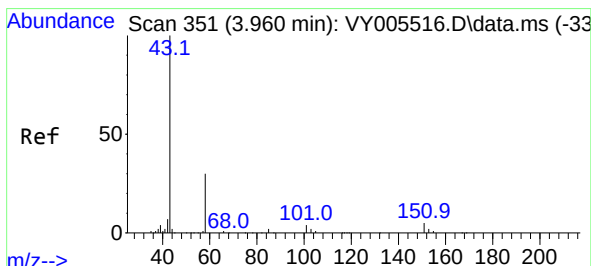
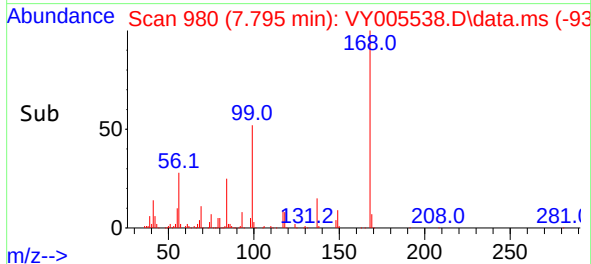
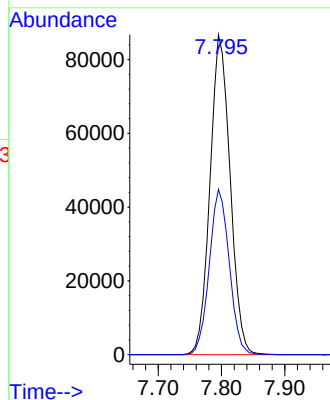
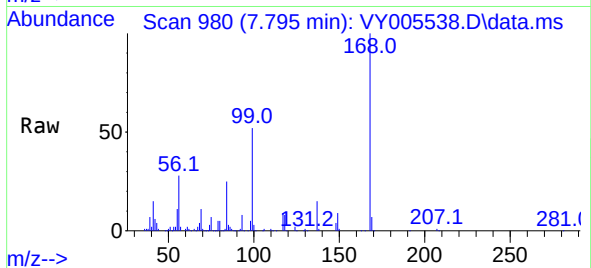
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.795 min Scan# 980
Delta R.T. -0.006 min
Lab File: VY005538.D
Acq: 04 Aug 2021 15:24

Tgt Ion:168 Resp: 191522
Ion Ratio Lower Upper
168 100
99 51.6 38.9 58.3

Instrument :
MSVOA_Y
ClientSampleId :
TWP03

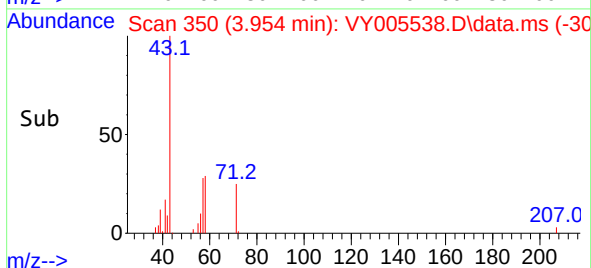
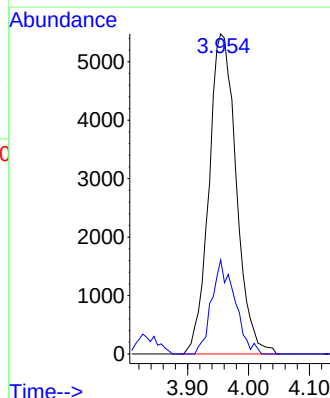
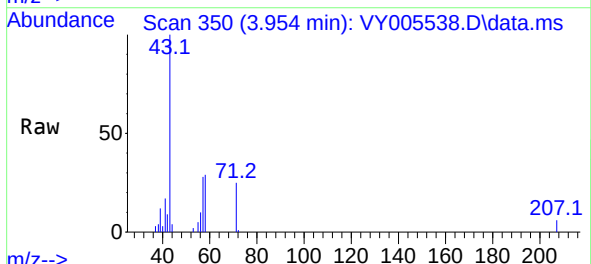
Manual Integrations
APPROVED

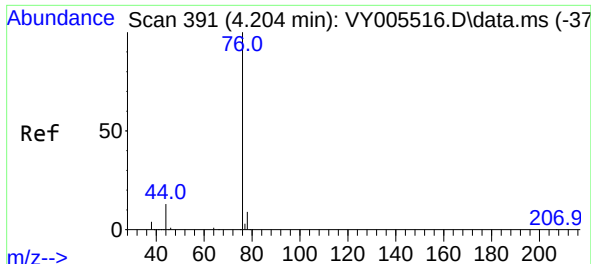
MMDadoda
8/6/2021 5:40:16 PM



#16
Acetone
Concen: 34.888 ug/l
RT: 3.954 min Scan# 350
Delta R.T. -0.006 min
Lab File: VY005538.D
Acq: 04 Aug 2021 15:24

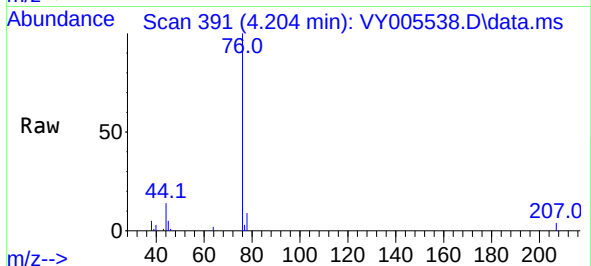
Tgt Ion: 43 Resp: 17053
Ion Ratio Lower Upper
43 100
58 29.4 23.8 35.6





#17
Carbon Disulfide
Concen: 2.982 ug/l
RT: 4.204 min Scan# 391
Delta R.T. 0.000 min
Lab File: VY005538.D
Acq: 04 Aug 2021 15:24

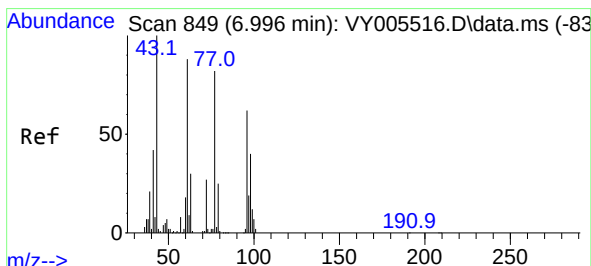
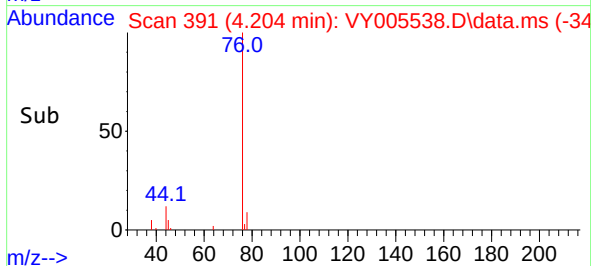
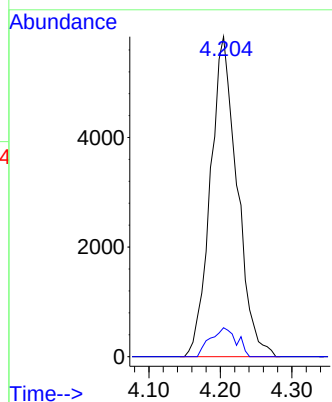
Instrument :
MSVOA_Y
ClientSampleId :
TWP03



Tgt Ion: 76 Resp: 15173
Ion Ratio Lower Upper
76 100
78 9.1 7.0 10.6

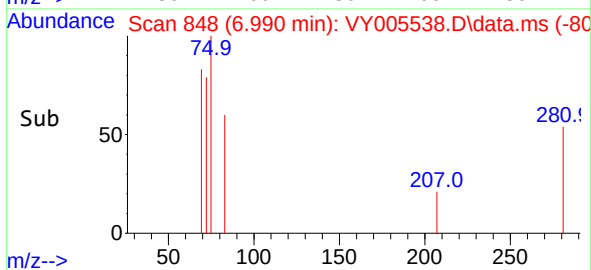
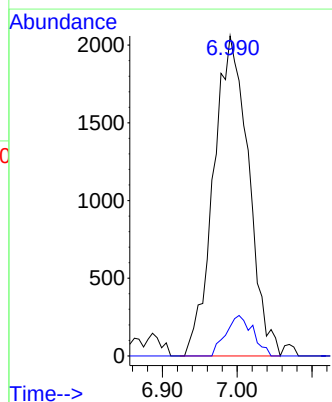
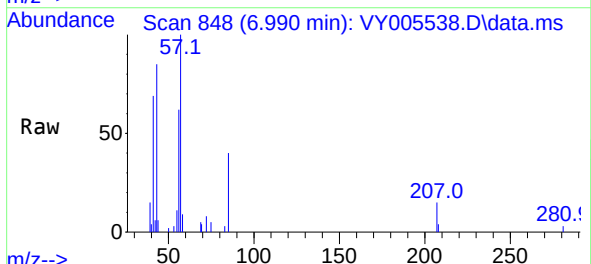
Manual Integrations
APPROVED

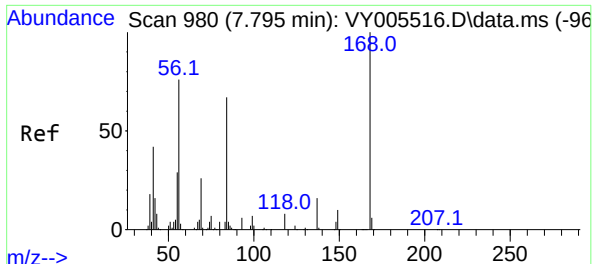
MMDadoda
8/6/2021 5:40:16 PM



#25
2-Butanone
Concen: 9.262 ug/l
RT: 6.990 min Scan# 848
Delta R.T. -0.006 min
Lab File: VY005538.D
Acq: 04 Aug 2021 15:24

Tgt Ion: 43 Resp: 6692
Ion Ratio Lower Upper
43 100
72 9.1 21.4 32.2#





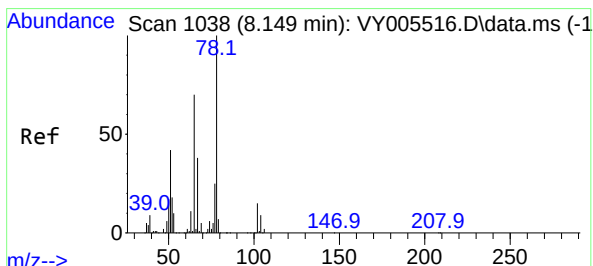
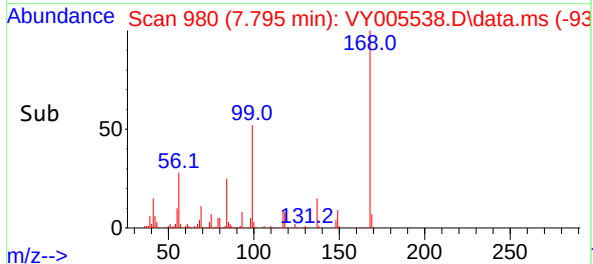
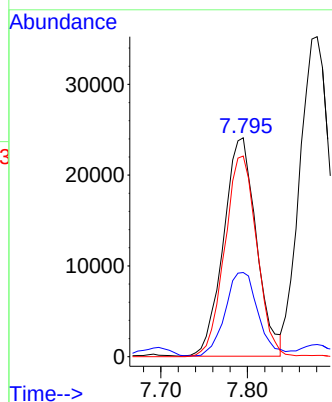
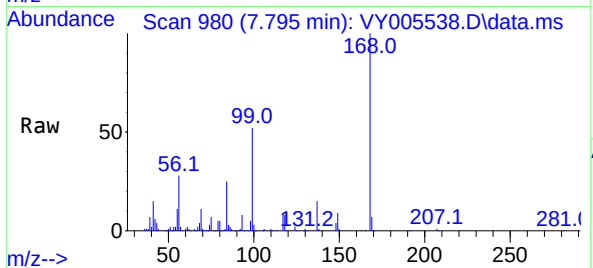
#31
Cyclohexane
Concen: 19.112 ug/l
RT: 7.795 min Scan# 980
Delta R.T. 0.000 min
Lab File: VY005538.D
Acq: 04 Aug 2021 15:24

Tgt Ion: 56 Resp: 63554
Ion Ratio Lower Upper
56 100
69 37.9 27.7 41.5
84 91.9 70.9 106.3

Instrument :
MSVOA_Y
ClientSampleId :
TWP03

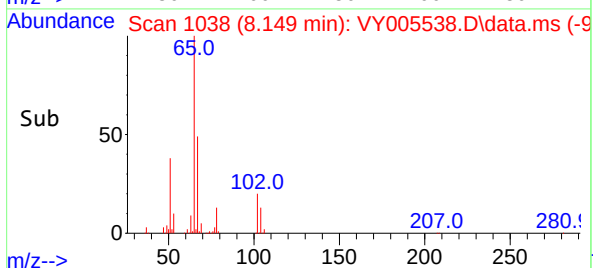
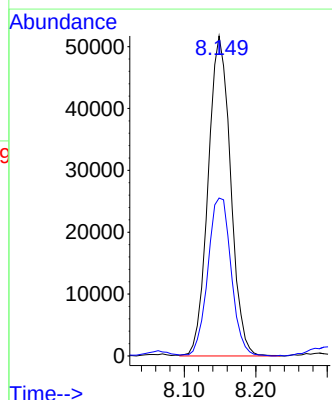
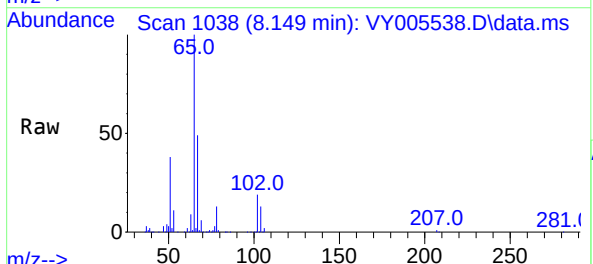
Manual Integrations
APPROVED

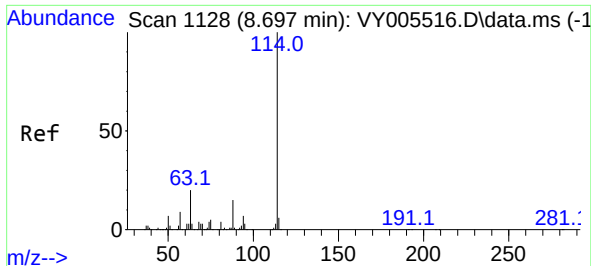
MMDadoda
8/6/2021 5:40:16 PM



#33
1,2-Dichloroethane-d4
Concen: 58.184 ug/l
RT: 8.149 min Scan# 1038
Delta R.T. 0.000 min
Lab File: VY005538.D
Acq: 04 Aug 2021 15:24

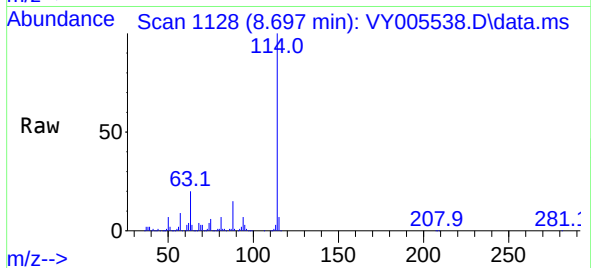
Tgt Ion: 65 Resp: 112801
Ion Ratio Lower Upper
65 100
67 51.3 0.0 103.4





#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.697 min Scan# 1128
Delta R.T. 0.000 min
Lab File: VY005538.D
Acq: 04 Aug 2021 15:24

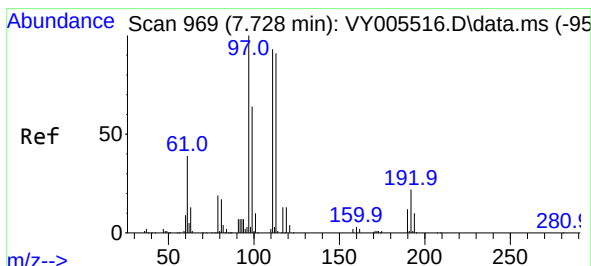
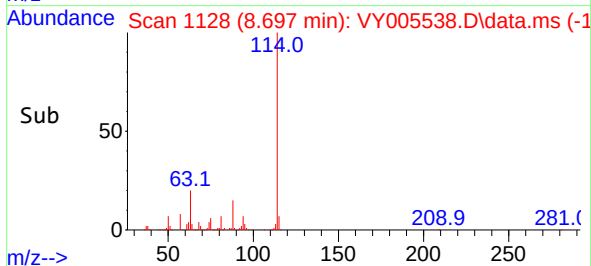
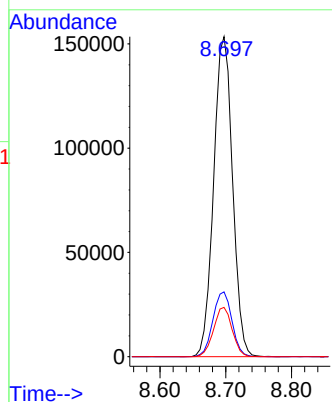
Instrument :
MSVOA_Y
ClientSampled :
TWP03



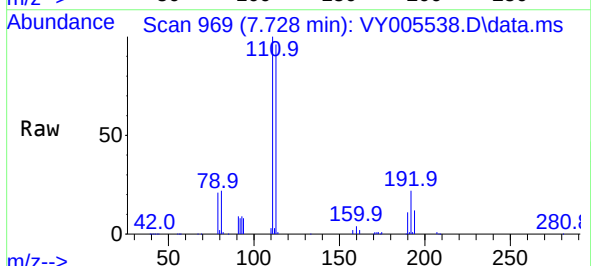
Tgt Ion:114 Resp: 306882
Ion Ratio Lower Upper
114 100
63 20.3 0.0 39.2
88 15.4 0.0 30.8

Manual Integrations
APPROVED

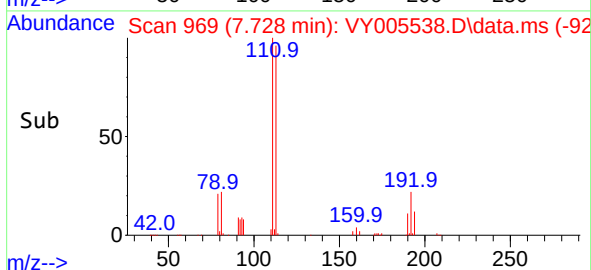
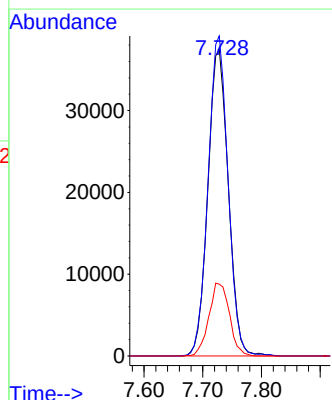
MMDadoda
8/6/2021 5:40:16 PM

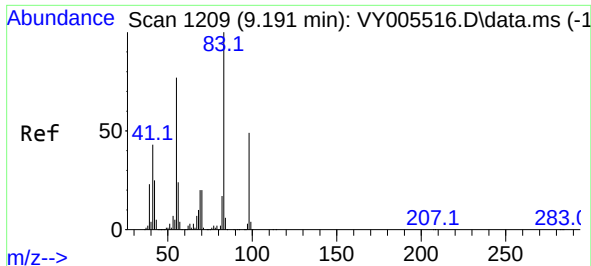


#35
Dibromofluoromethane
Concen: 52.754 ug/l
RT: 7.728 min Scan# 969
Delta R.T. 0.000 min
Lab File: VY005538.D
Acq: 04 Aug 2021 15:24



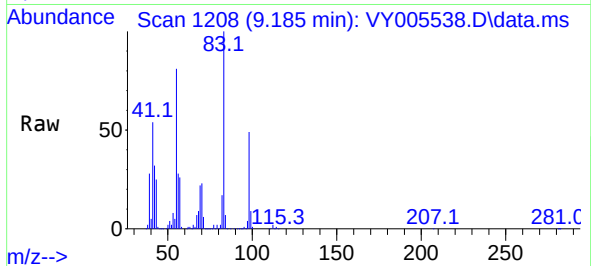
Tgt Ion:113 Resp: 90639
Ion Ratio Lower Upper
113 100
111 102.1 81.9 122.9
192 23.9 19.2 28.8





#39
Methylcyclohexane
Concen: 124.091 ug/l
RT: 9.185 min Scan# 1208
Delta R.T. -0.006 min
Lab File: VY005538.D
Acq: 04 Aug 2021 15:24

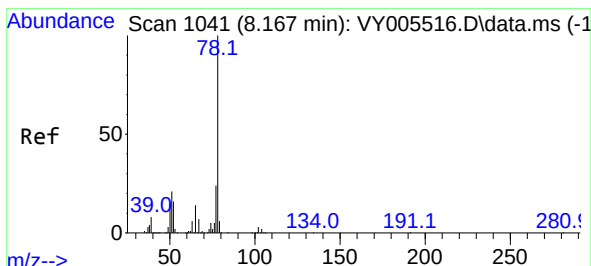
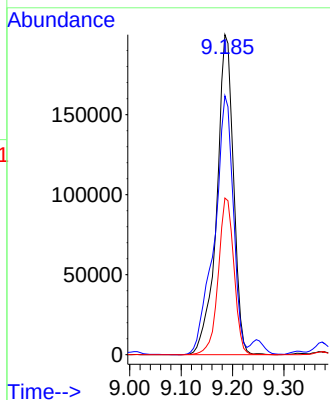
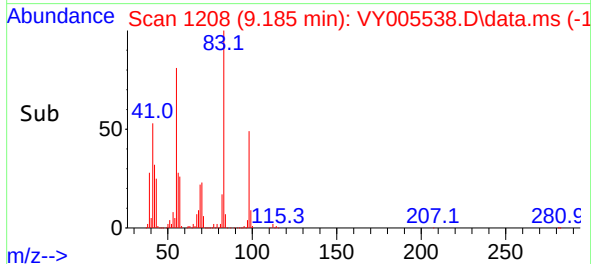
Instrument :
MSVOA_Y
ClientSampled :
TWP03



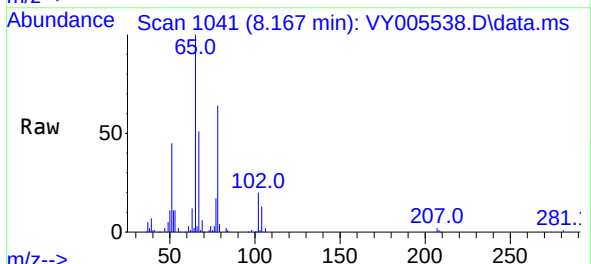
Tgt Ion: 83 Resp: 454419
Ion Ratio Lower Upper
83 100
55 80.9 61.7 92.5
98 49.0 38.9 58.3

Manual Integrations
APPROVED

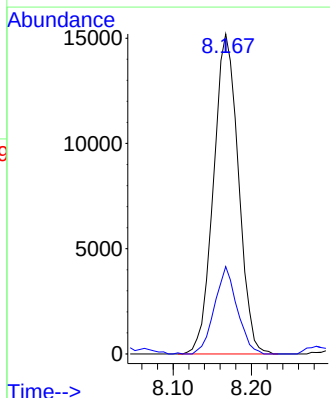
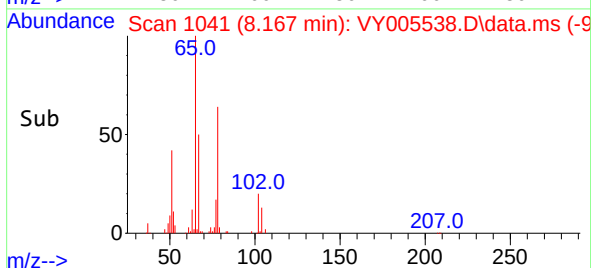
MMDadoda
8/6/2021 5:40:16 PM

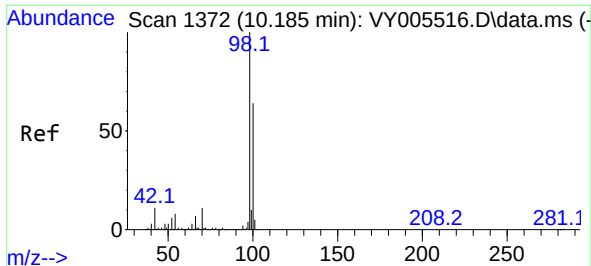


#40
Benzene
Concen: 4.064 ug/l
RT: 8.167 min Scan# 1041
Delta R.T. 0.000 min
Lab File: VY005538.D
Acq: 04 Aug 2021 15:24



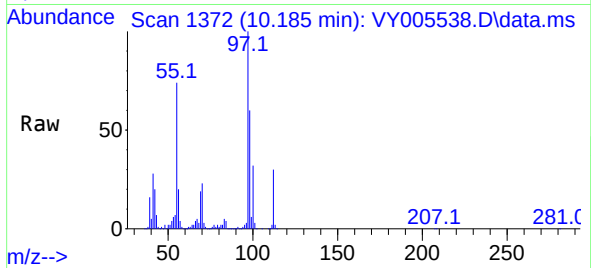
Tgt Ion: 78 Resp: 33500
Ion Ratio Lower Upper
78 100
77 27.3 19.6 29.4





#50
Toluene-d8
Concen: 67.192 ug/l
RT: 10.185 min Scan# 1372
Delta R.T. 0.000 min
Lab File: VY005538.D
Acq: 04 Aug 2021 15:24

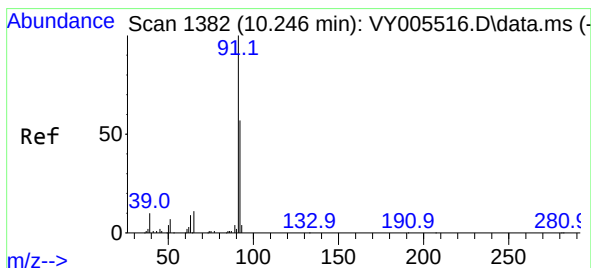
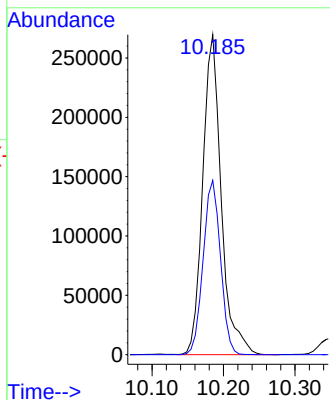
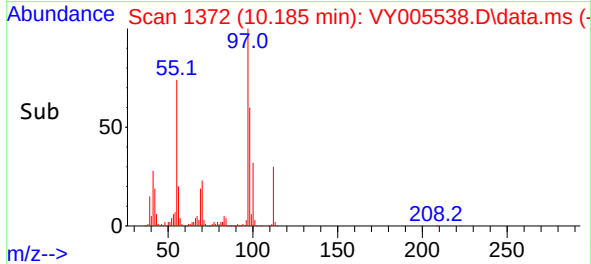
Instrument :
MSVOA_Y
ClientSampled :
TWP03



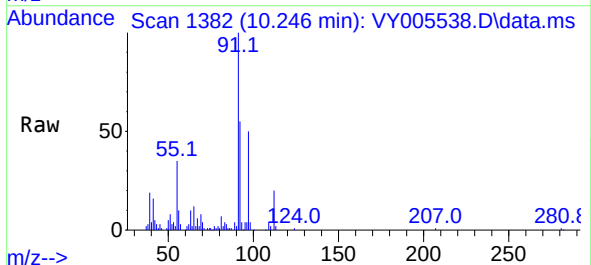
Tgt Ion: 98 Resp: 484173
Ion Ratio Lower Upper
98 100
100 51.0 51.3 76.9#

Manual Integrations
APPROVED

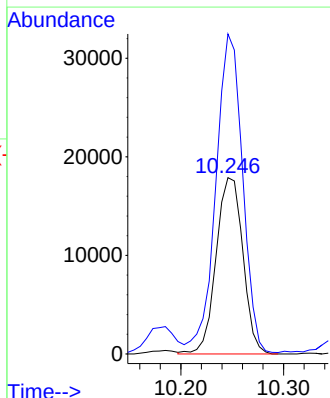
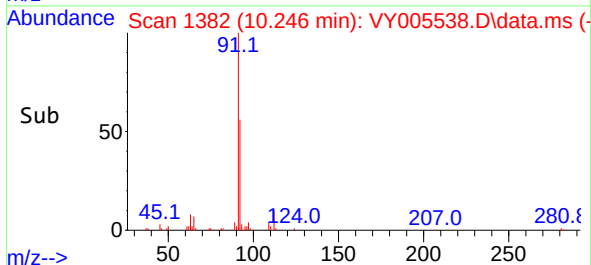
MMDadoda
8/6/2021 5:40:16 PM

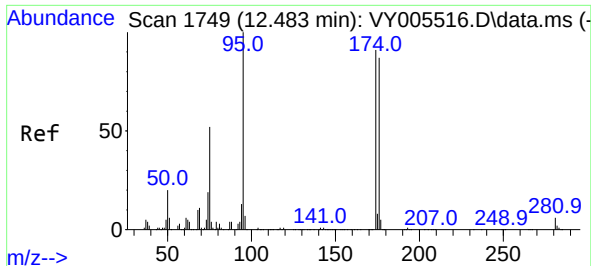


#52
Toluene
Concen: 6.146 ug/l
RT: 10.246 min Scan# 1382
Delta R.T. 0.000 min
Lab File: VY005538.D
Acq: 04 Aug 2021 15:24



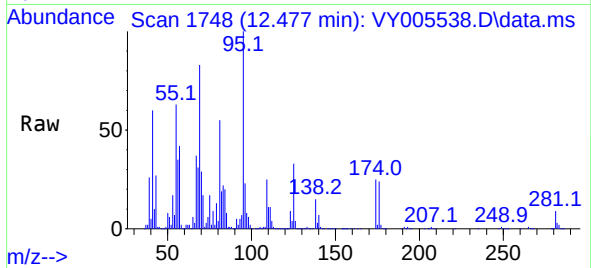
Tgt Ion: 92 Resp: 32301
Ion Ratio Lower Upper
92 100
91 180.8 139.6 209.4





#62
4-Bromofluorobenzene
Concen: 135.021 ug/l
RT: 12.477 min Scan# 1748
Delta R.T. -0.006 min
Lab File: VY005538.D
Acq: 04 Aug 2021 15:24

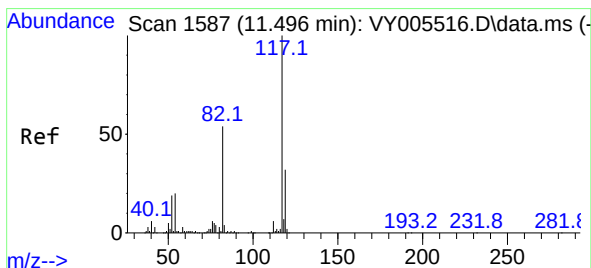
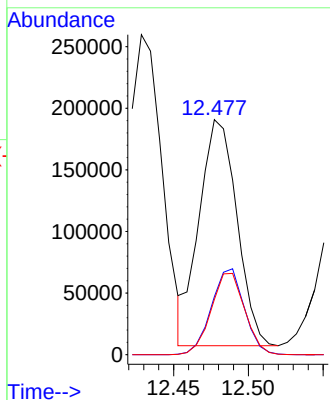
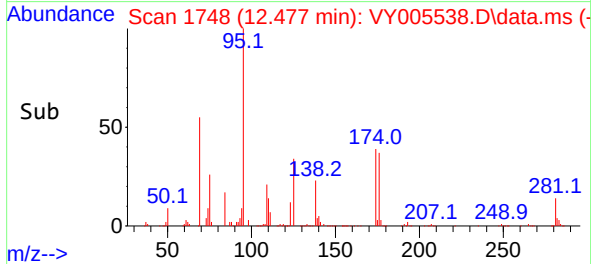
Instrument :
MSVOA_Y
ClientSampled :
TWP03



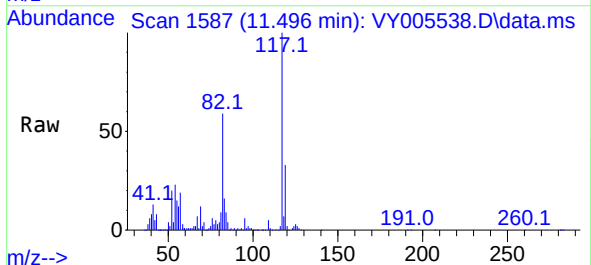
Tgt Ion: 95 Resp: 322189
Ion Ratio Lower Upper
95 100
174 33.2 0.0 191.4
176 32.2 0.0 183.6

Manual Integrations
APPROVED

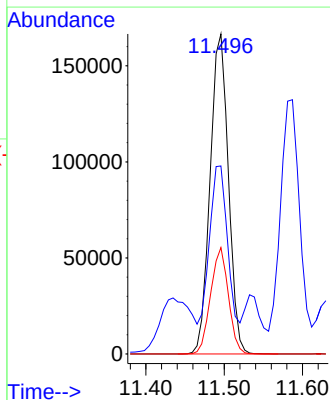
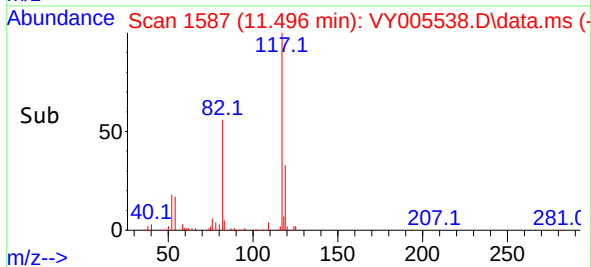
MMDadoda
8/6/2021 5:40:16 PM

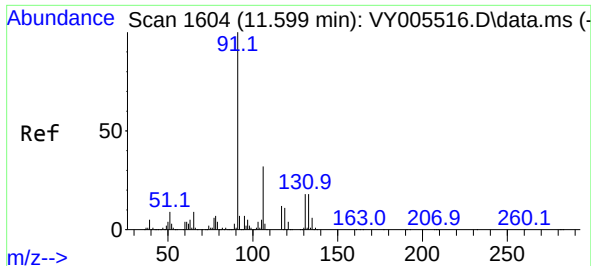


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.496 min Scan# 1587
Delta R.T. 0.000 min
Lab File: VY005538.D
Acq: 04 Aug 2021 15:24



Tgt Ion: 117 Resp: 269937
Ion Ratio Lower Upper
117 100
82 42.5 43.5 65.3#
119 33.3 25.5 38.3





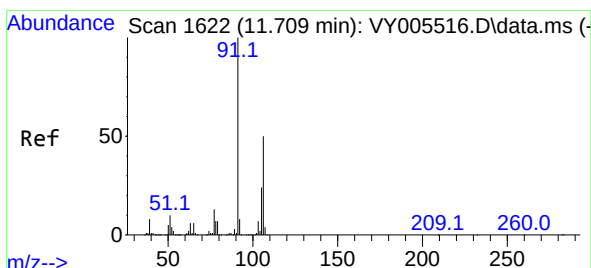
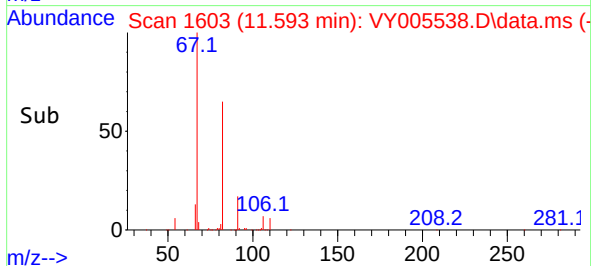
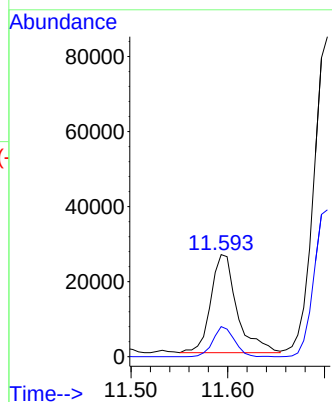
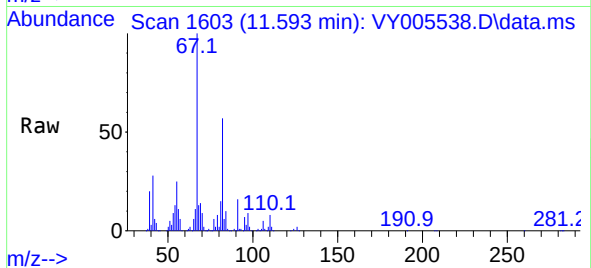
#67
Ethyl Benzene
Concen: 5.014 ug/l
RT: 11.593 min Scan# 1603
Delta R.T. -0.006 min
Lab File: VY005538.D
Acq: 04 Aug 2021 15:24

Tgt Ion: 91 Resp: 49386
Ion Ratio Lower Upper
91 100
106 30.6 25.8 38.6

Instrument :
MSVOA_Y
ClientSampled :
TWP03

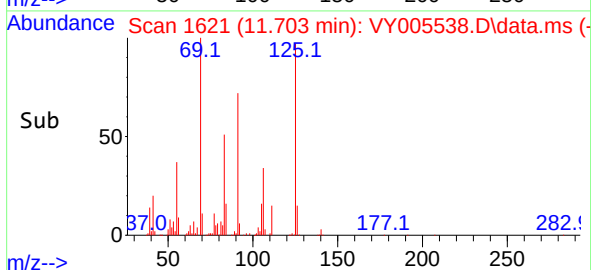
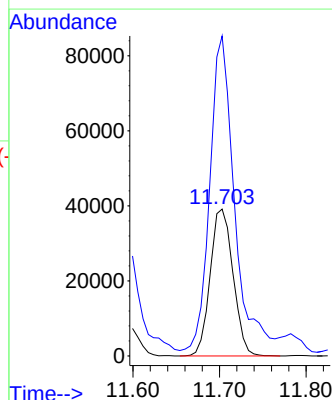
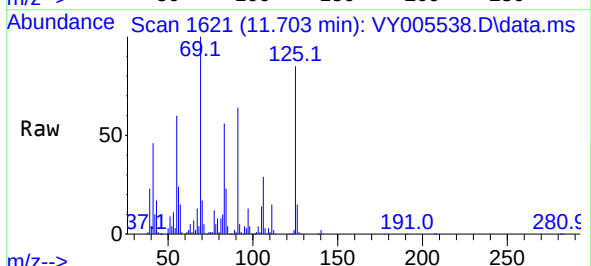
Manual Integrations
APPROVED

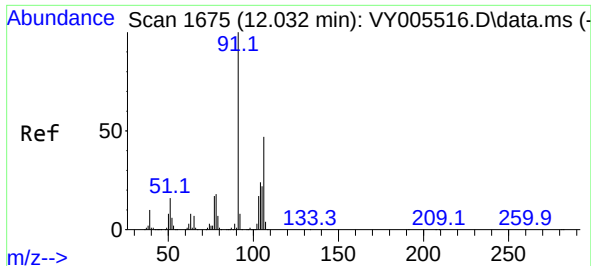
MMDadoda
8/6/2021 5:40:16 PM



#68
m/p-Xylenes
Concen: 18.786 ug/l
RT: 11.703 min Scan# 1621
Delta R.T. -0.006 min
Lab File: VY005538.D
Acq: 04 Aug 2021 15:24

Tgt Ion: 106 Resp: 71871
Ion Ratio Lower Upper
106 100
91 228.4 159.6 239.4





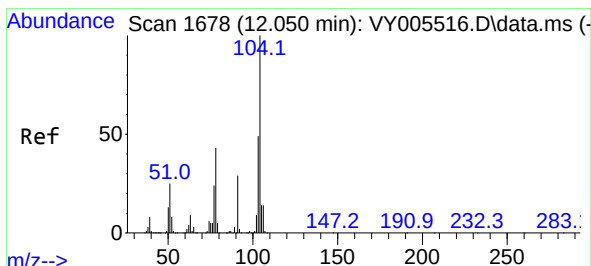
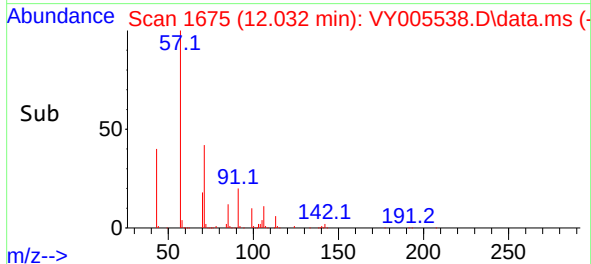
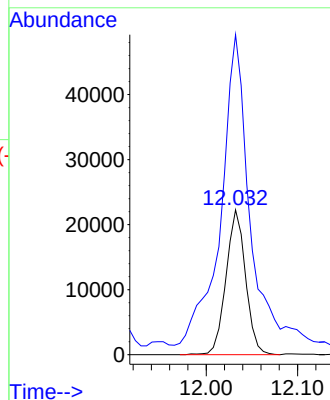
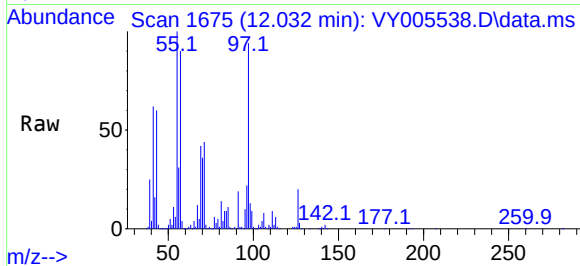
#69
o-Xylene
Concen: 9.014 ug/l
RT: 12.032 min Scan# 1675
Delta R.T. 0.000 min
Lab File: VY005538.D
Acq: 04 Aug 2021 15:24

Tgt Ion:106 Resp: 33147
Ion Ratio Lower Upper
106 100
91 318.6 106.2 318.6

Instrument :
MSVOA_Y
ClientSampled :
TWP03

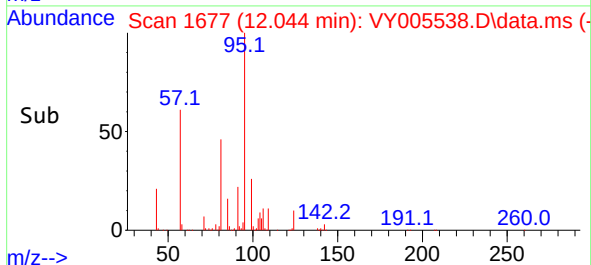
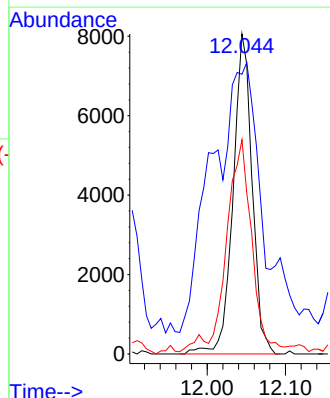
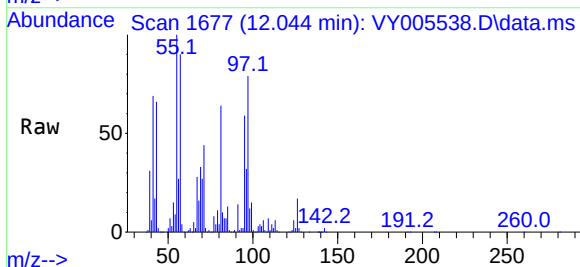
Manual Integrations
APPROVED

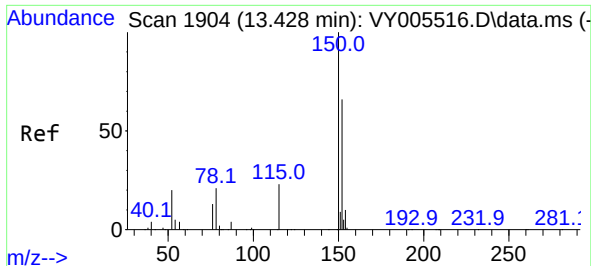
MMDadoda
8/6/2021 5:40:16 PM



#70
Styrene
Concen: 2.198 ug/l
RT: 12.044 min Scan# 1677
Delta R.T. -0.006 min
Lab File: VY005538.D
Acq: 04 Aug 2021 15:24

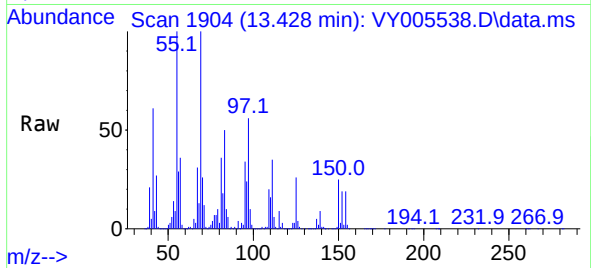
Tgt Ion:104 Resp: 13603
Ion Ratio Lower Upper
104 100
78 90.3 40.2 60.4#
103 78.5 43.8 65.8#





#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.428 min Scan# 1904
Delta R.T. 0.000 min
Lab File: VY005538.D
Acq: 04 Aug 2021 15:24

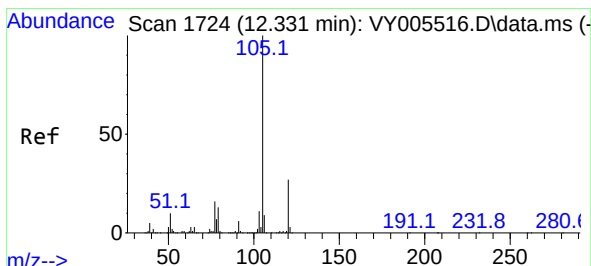
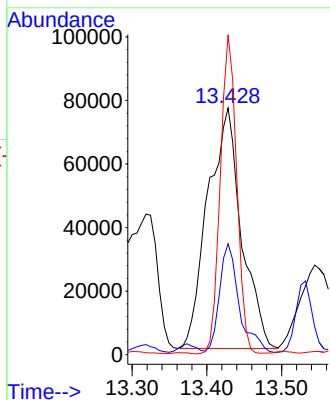
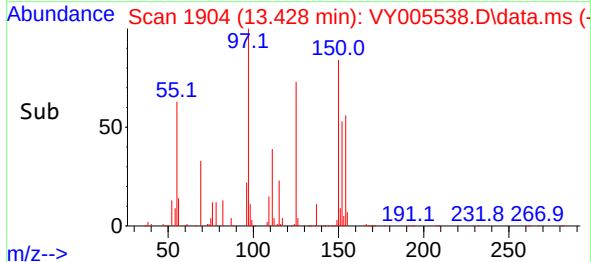
Instrument :
MSVOA_Y
ClientSampled :
TWP03



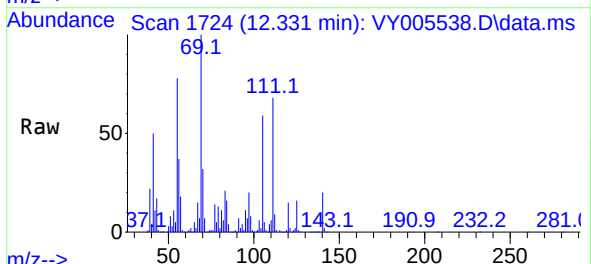
Tgt Ion:152 Resp: 237267
Ion Ratio Lower Upper
152 100
115 26.2 27.3 81.9#
150 64.8 0.0 350.2

Manual Integrations
APPROVED

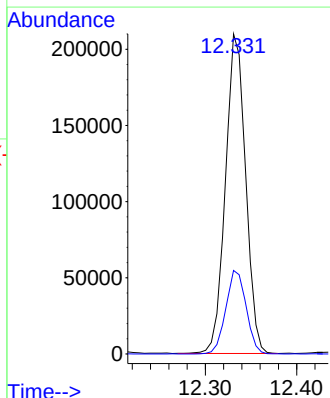
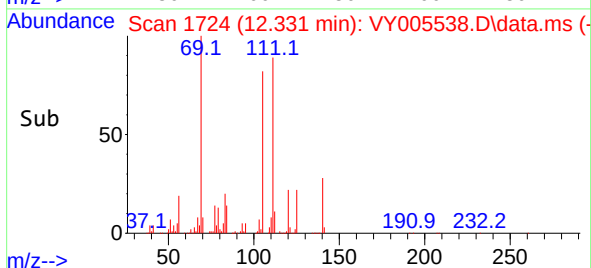
MMDadoda
8/6/2021 5:40:16 PM

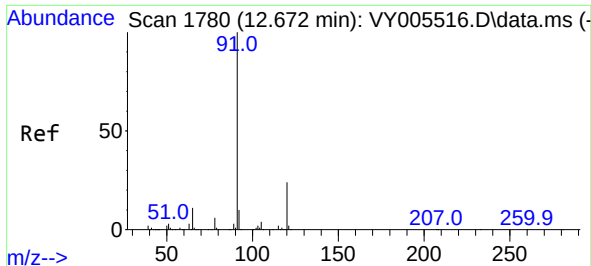


#73
Isopropylbenzene
Concen: 19.436 ug/l
RT: 12.331 min Scan# 1724
Delta R.T. 0.000 min
Lab File: VY005538.D
Acq: 04 Aug 2021 15:24



Tgt Ion:105 Resp: 321902
Ion Ratio Lower Upper
105 100
120 26.3 13.7 41.1





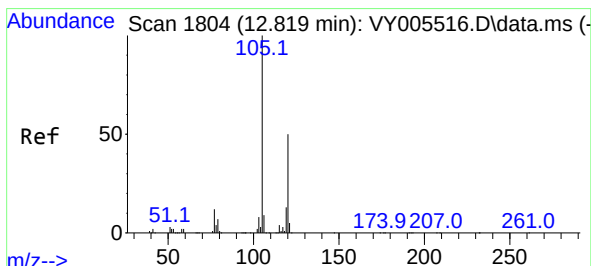
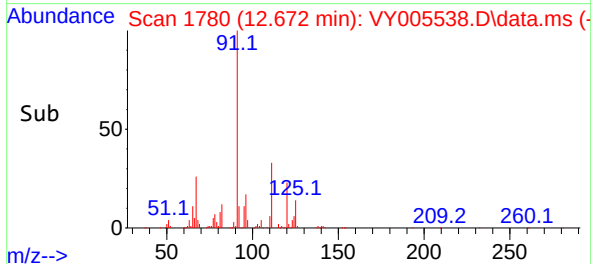
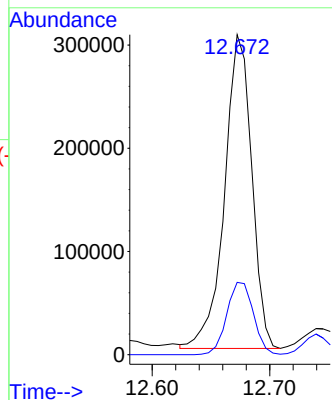
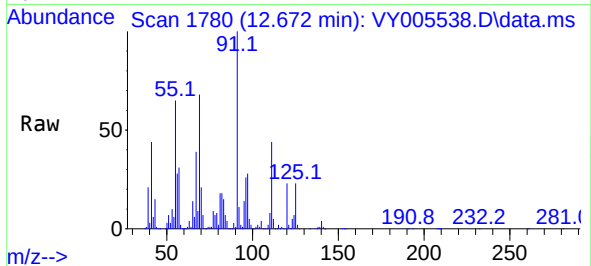
#78
n-propylbenzene
Concen: 24.880 ug/l
RT: 12.672 min Scan# 1780
Delta R.T. 0.000 min
Lab File: VY005538.D
Acq: 04 Aug 2021 15:24

Tgt Ion: 91 Resp: 489398
Ion Ratio Lower Upper
91 100
120 22.5 11.9 35.9

Instrument :
MSVOA_Y
ClientSampled :
TWP03

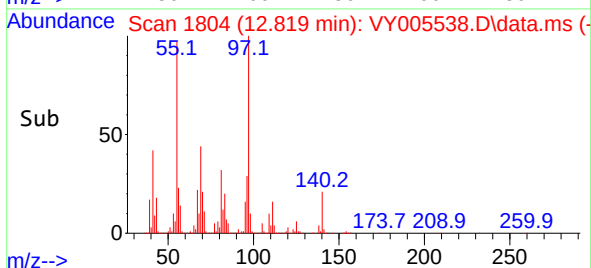
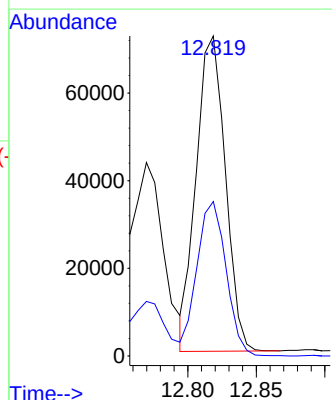
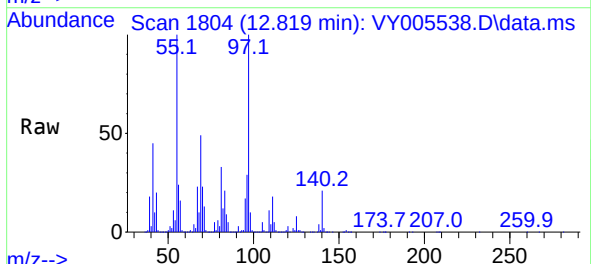
Manual Integrations
APPROVED

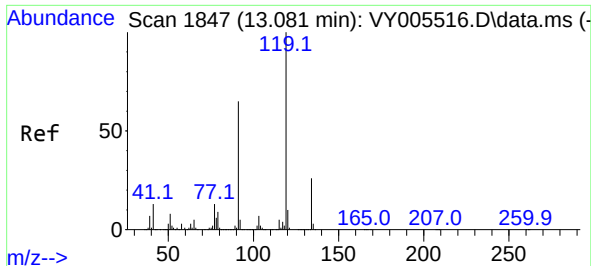
MMDadoda
8/6/2021 5:40:16 PM



#80
1,3,5-Trimethylbenzene
Concen: 7.730 ug/l
RT: 12.819 min Scan# 1804
Delta R.T. 0.000 min
Lab File: VY005538.D
Acq: 04 Aug 2021 15:24

Tgt Ion: 105 Resp: 106240
Ion Ratio Lower Upper
105 100
120 49.2 25.0 75.0





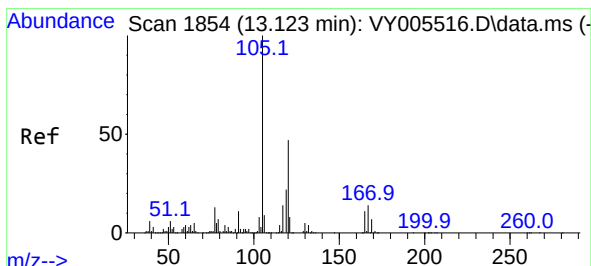
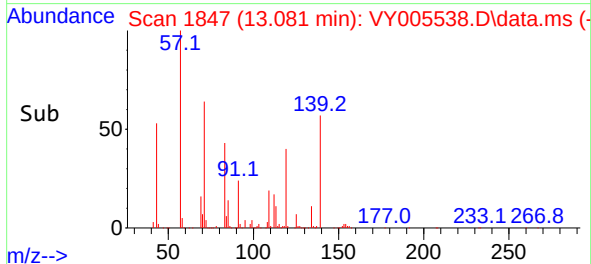
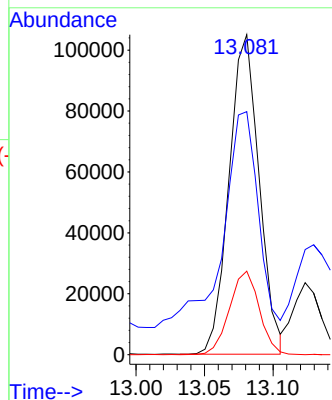
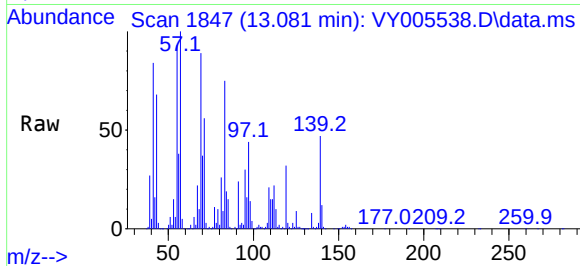
#83
tert-Butylbenzene
Concen: 12.981 ug/l
RT: 13.081 min Scan# 1847
Delta R.T. 0.000 min
Lab File: VY005538.D
Acq: 04 Aug 2021 15:24

Tgt Ion:119 Resp: 160095
Ion Ratio Lower Upper
119 100
91 78.2 31.9 95.9
134 25.9 13.4 40.2

Instrument :
MSVOA_Y
ClientSampled :
TWP03

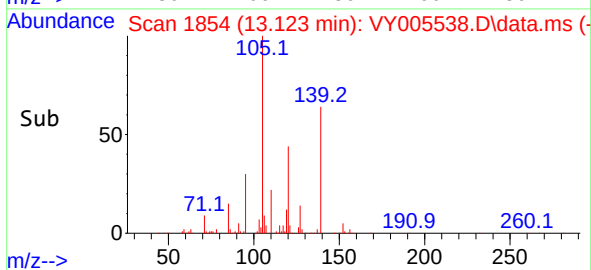
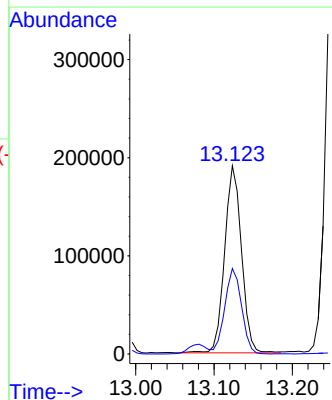
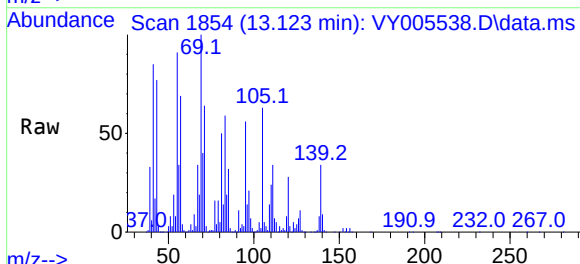
Manual Integrations
APPROVED

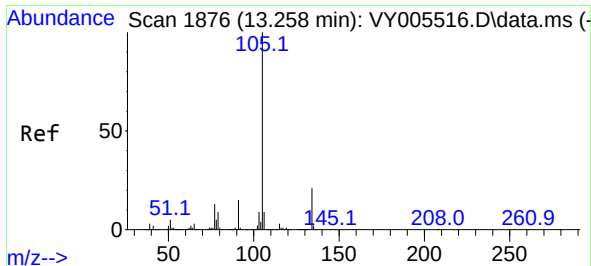
MMDadoda
8/6/2021 5:40:16 PM



#84
1,2,4-Trimethylbenzene
Concen: 21.136 ug/l
RT: 13.123 min Scan# 1854
Delta R.T. 0.000 min
Lab File: VY005538.D
Acq: 04 Aug 2021 15:24

Tgt Ion:105 Resp: 286645
Ion Ratio Lower Upper
105 100
120 44.8 22.9 68.5





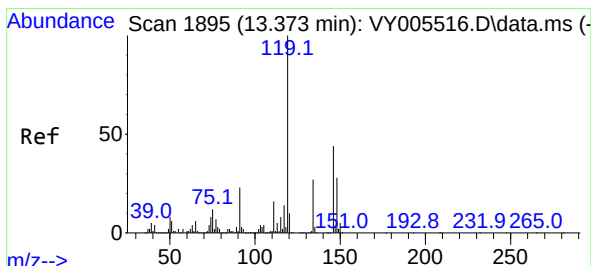
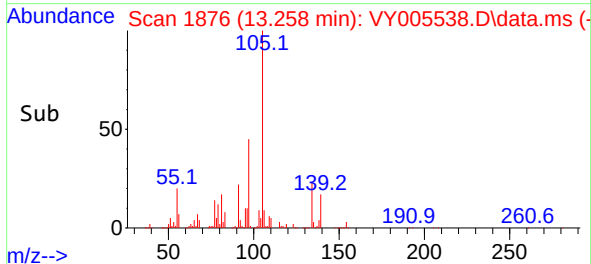
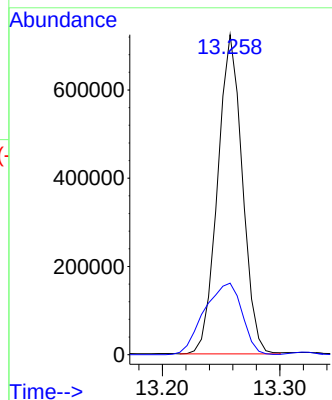
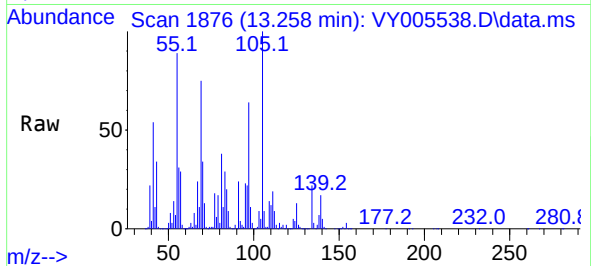
#85
sec-Butylbenzene
Concen: 59.520 ug/l
RT: 13.258 min Scan# 1876
Delta R.T. 0.000 min
Lab File: VY005538.D
Acq: 04 Aug 2021 15:24

Tgt Ion:105 Resp: 1058807
Ion Ratio Lower Upper
105 100
134 34.3 10.5 31.5#

Instrument :
MSVOA_Y
ClientSampled :
TWP03

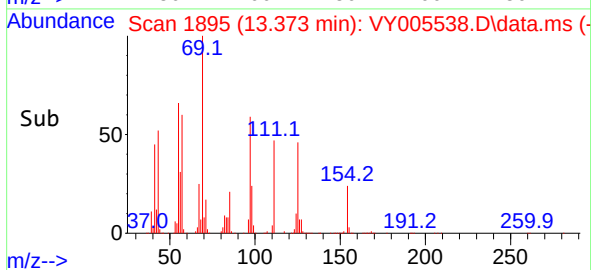
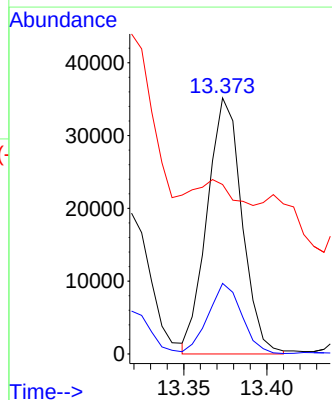
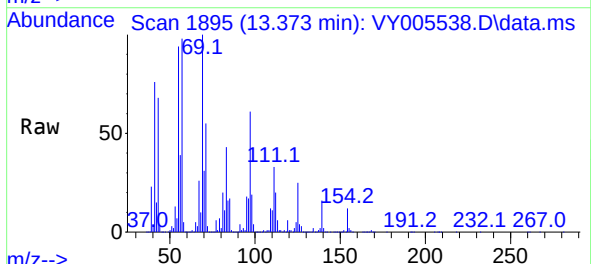
Manual Integrations
APPROVED

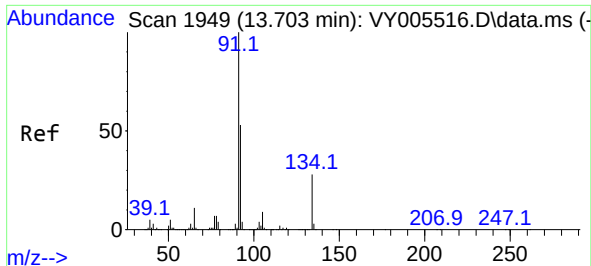
MMDadoda
8/6/2021 5:40:16 PM



#86
p-Isopropyltoluene
Concen: 3.361 ug/l m
RT: 13.373 min Scan# 1895
Delta R.T. 0.000 min
Lab File: VY005538.D
Acq: 04 Aug 2021 15:24

Tgt Ion:119 Resp: 51329
Ion Ratio Lower Upper
119 100
134 215.9 13.6 40.7#
91 245.1 11.6 34.7#





#89
n-Butylbenzene
Concen: 46.995 ug/l
RT: 13.703 min Scan# 1949
Delta R.T. 0.000 min
Lab File: VY005538.D
Acq: 04 Aug 2021 15:24

Tgt Ion: 91 Resp: 650249
Ion Ratio Lower Upper
91 100
92 44.5 26.7 80.1
134 0.0 13.8 41.4#

Instrument :
MSVOA_Y
ClientSampleId :
TWP03

Manual Integrations
APPROVED

MMDadoda
8/6/2021 5:40:16 PM

