

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX042221\
 Data File : VX021820.D
 Acq On : 22 Apr 2021 16:34
 Operator : JC/MD
 Sample : M2134-01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 210421084-02-VOA

Manual Integrations
 APPROVED

MMDadoda
 4/26/2021 4:52:14 PM

Quant Time: Apr 23 07:44:01 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X042021W.M
 Quant Title : SW846 8260
 QLast Update : Tue Apr 20 13:46:22 2021
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	5.629	168	152469	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.830	114	276106	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.092	117	295837	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.061	152	158521	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.025	65	89003	51.46	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 102.92%			
35) Dibromofluoromethane	5.464	113	88675	50.22	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 100.44%			
50) Toluene-d8	8.695	98	341736	50.34	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 100.68%			
62) 4-Bromofluorobenzene	11.116	95	148623	58.62	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 117.24%			
Target Compounds					Qvalue	
8) Diethyl Ether	2.166	74	2839	2.93	ug/l	90
11) Tert butyl alcohol	3.007	59	2510948	6629.37	ug/l	100
16) Acetone	2.416	43	717564	1206.70	ug/l	100
17) Carbon Disulfide	2.556	76	20963	5.22	ug/l	97
18) Methyl Acetate	2.745	43	6327m	3.92	ug/l	
19) Methyl tert-butyl Ether	3.166	73	14595	3.01	ug/l	95
25) 2-Butanone	4.635	43	1438699	1428.82	ug/l	100
29) Tetrahydrofuran	5.086	42	365936	558.54	ug/l	97
40) Benzene	6.111	78	29603	4.07	ug/l	99
49) 1,4-Dioxane	7.714	88	6113	133.09	ug/l	90
51) 4-Methyl-2-Pentanone	8.616	43	16895	7.35	ug/l	87
52) Toluene	8.762	92	22830	4.84	ug/l	98
65) Chlorobenzene	10.116	112	7778	1.27	ug/l	99
67) Ethyl Benzene	10.232	91	97628	9.23	ug/l	99
68) m/p-Xylenes	10.341	106	33572	8.21	ug/l	100
69) o-Xylene	10.677	106	19903	5.05	ug/l	96
73) Isopropylbenzene	11.000	105	11687	1.05	ug/l	98
78) n-propylbenzene	11.341	91	5973	0.49	ug/l	99
80) 1,3,5-Trimethylbenzene	11.488	105	6902	0.73	ug/l	97
84) 1,2,4-Trimethylbenzene	11.786	105	26378	2.77	ug/l	92
86) p-Isopropyltoluene	12.049	119	22514	2.20	ug/l	93
88) 1,4-Dichlorobenzene	12.079	146	17600	3.43	ug/l	90
95) Naphthalene	13.816	128	353288	33.06	ug/l	100

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

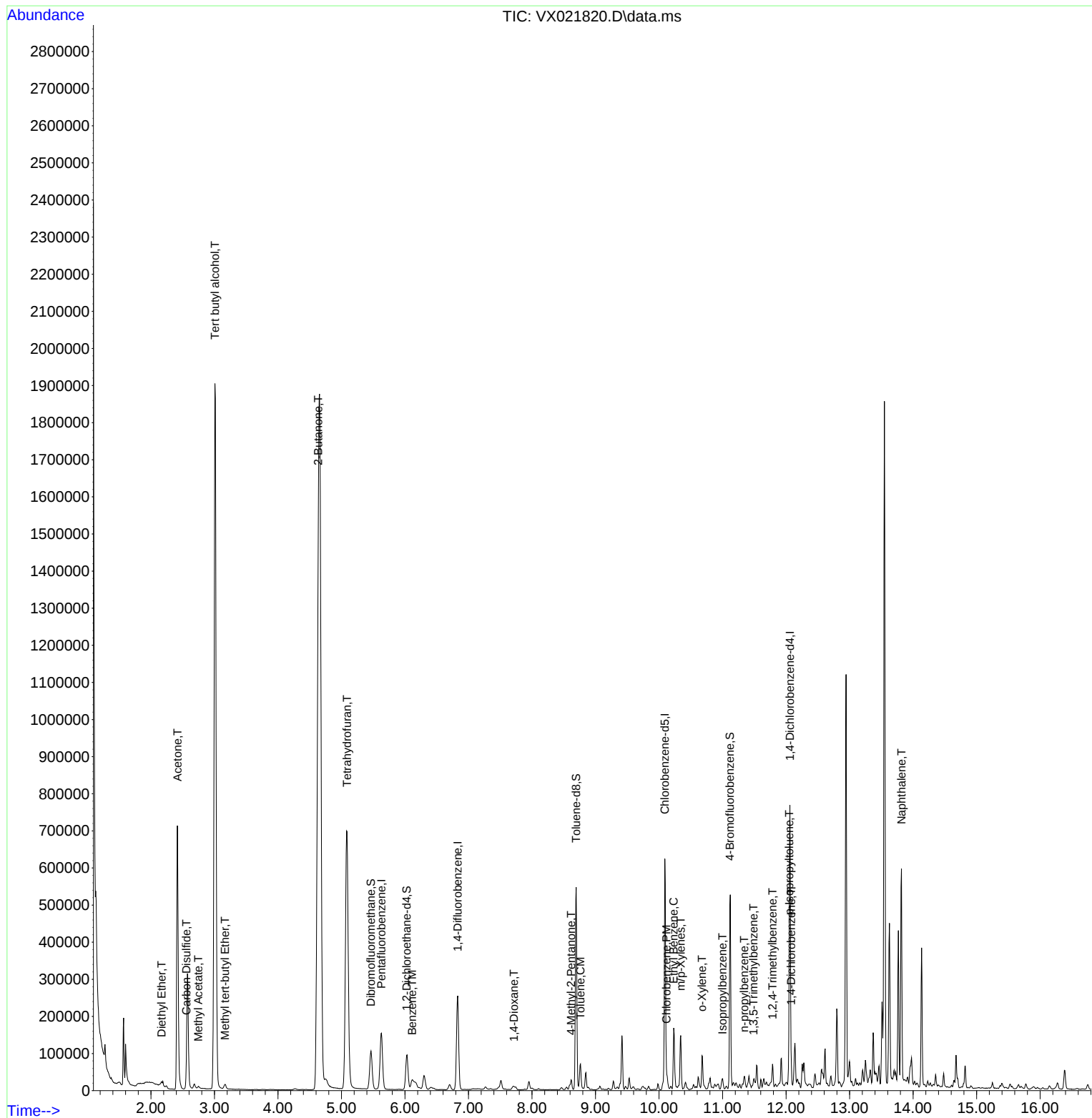
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX042221\
Data File : VX021820.D
Acq On : 22 Apr 2021 16:34
Operator : JC/MD
Sample : M2134-01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 13 Sample Multiplier: 1

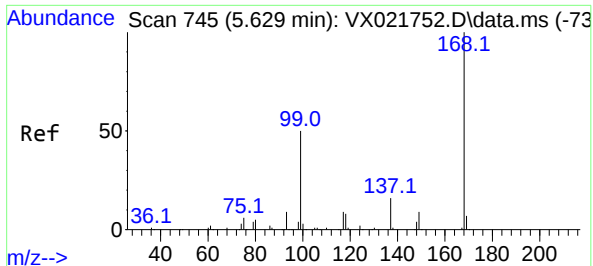
Instrument :
MSVOA_X
ClientSampleId :
210421084-02-VOA

Manual Integrations
APPROVED

MMDadoda
4/26/2021 4:52:14 PM

Quant Time: Apr 23 07:44:01 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X042021W.M
Quant Title : SW846 8260
QLast Update : Tue Apr 20 13:46:22 2021
Response via : Initial Calibration





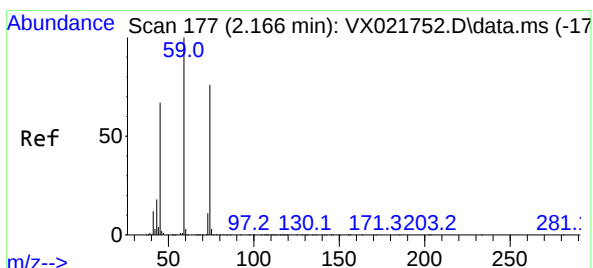
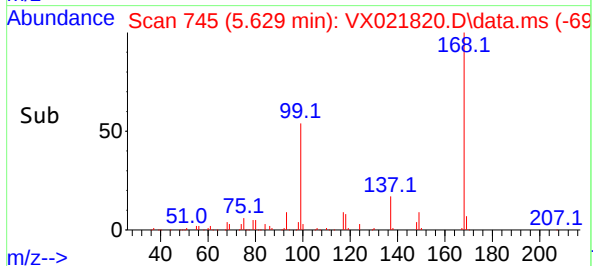
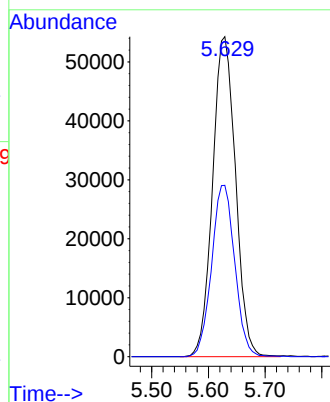
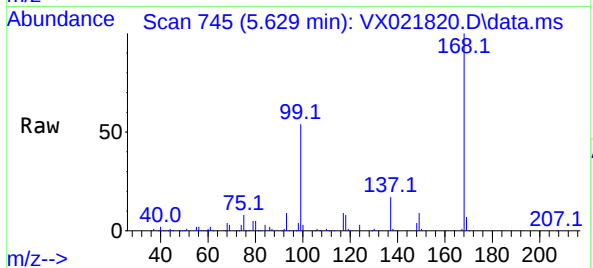
#1
Pentafluorobenzene
Concen: 50.00 ug/l
RT: 5.629 min Scan# 745
Delta R.T. -0.000 min
Lab File: VX021820.D
Acq: 22 Apr 2021 16:34

Tgt Ion: 168 Resp: 152469
Ion Ratio Lower Upper
168 100
99 53.5 45.8 68.6

Instrument :
MSVOA_X
ClientSampleId :
210421084-02-VOA

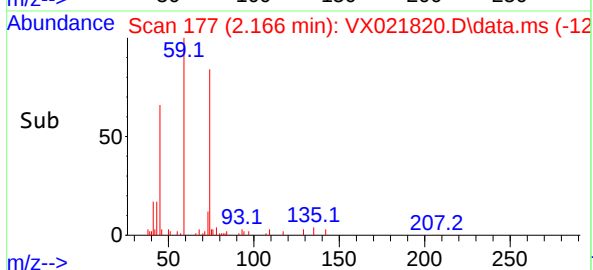
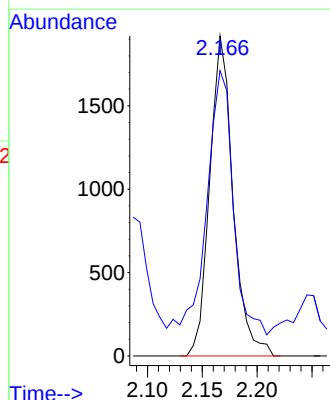
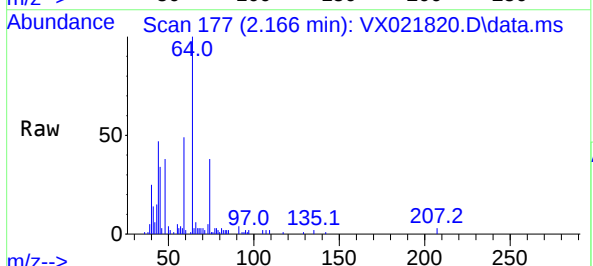
Manual Integrations
APPROVED

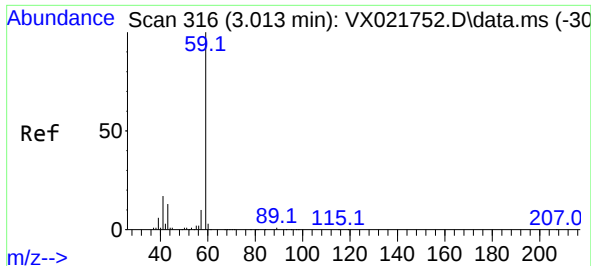
MMDadoda
4/26/2021 4:52:14 PM



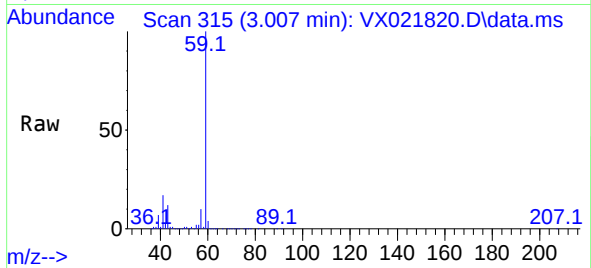
#8
Diethyl Ether
Concen: 2.93 ug/l
RT: 2.166 min Scan# 177
Delta R.T. 0.000 min
Lab File: VX021820.D
Acq: 22 Apr 2021 16:34

Tgt Ion: 74 Resp: 2839
Ion Ratio Lower Upper
74 100
45 98.4 44.5 133.5

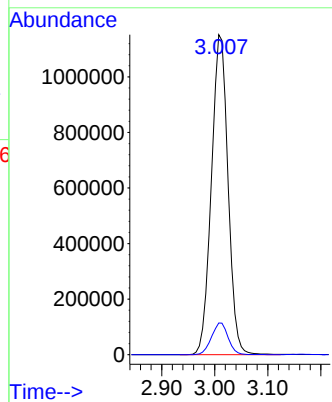




#11
Tert butyl alcohol
Concen: 6629.37 ug/l
RT: 3.007 min Scan# 315
Delta R.T. -0.006 min
Lab File: VX021820.D
Acq: 22 Apr 2021 16:34



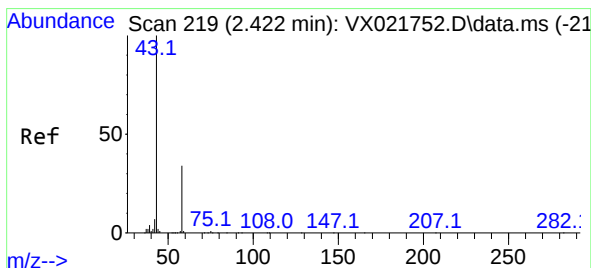
Tgt Ion: 59 Resp: 2510948
Ion Ratio Lower Upper
59 100
57 9.9 7.8 11.8



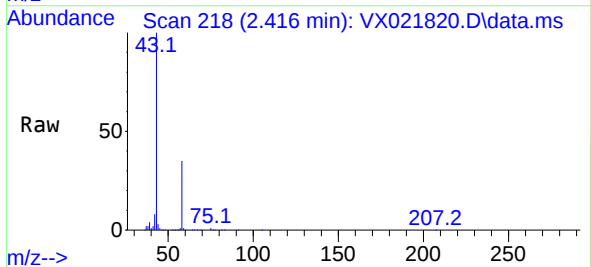
Instrument :
MSVOA_X
ClientSampleId :
210421084-02-VOA

Manual Integrations
APPROVED

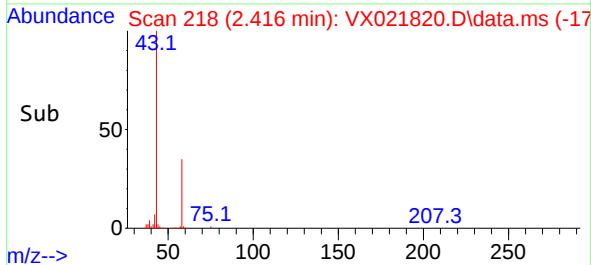
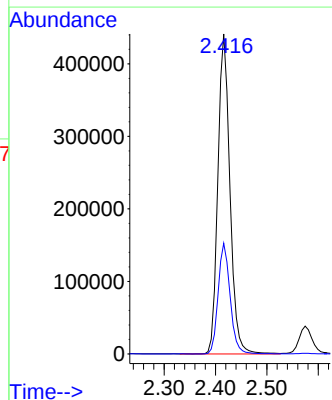
MMDadoda
4/26/2021 4:52:14 PM

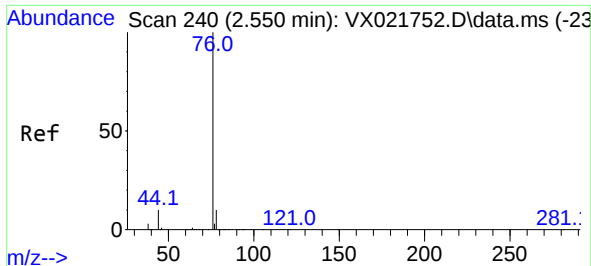


#16
Acetone
Concen: 1206.70 ug/l
RT: 2.416 min Scan# 218
Delta R.T. -0.006 min
Lab File: VX021820.D
Acq: 22 Apr 2021 16:34



Tgt Ion: 43 Resp: 717564
Ion Ratio Lower Upper
43 100
58 34.6 27.8 41.8





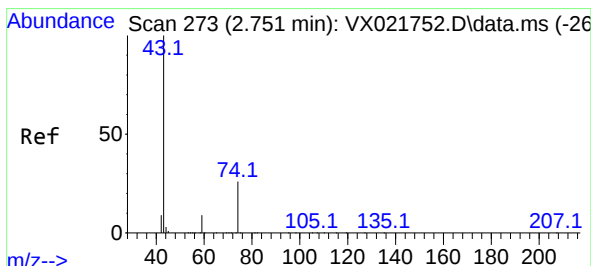
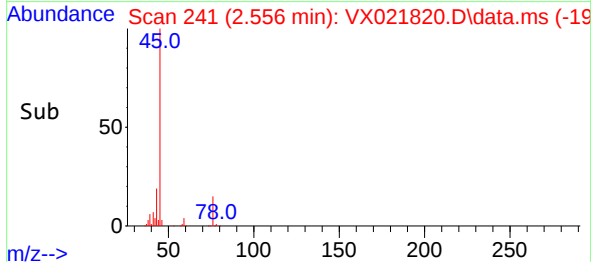
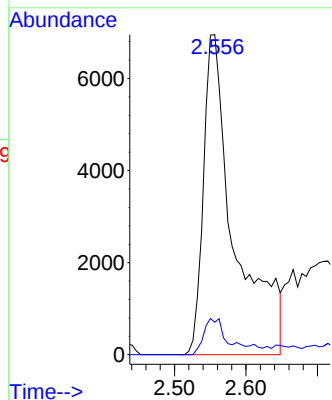
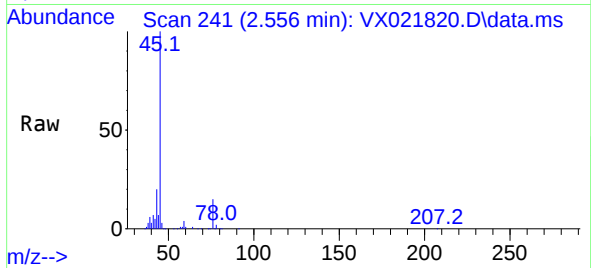
#17
Carbon Disulfide
Concen: 5.22 ug/l
RT: 2.556 min Scan# 241
Delta R.T. 0.006 min
Lab File: VX021820.D
Acq: 22 Apr 2021 16:34

Tgt Ion: 76 Resp: 20963
Ion Ratio Lower Upper
76 100
78 10.1 7.2 10.8

Instrument :
MSVOA_X
ClientSampleId :
210421084-02-VOA

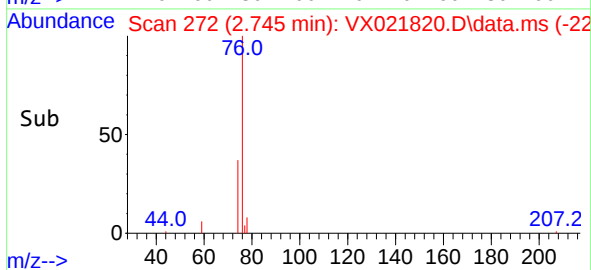
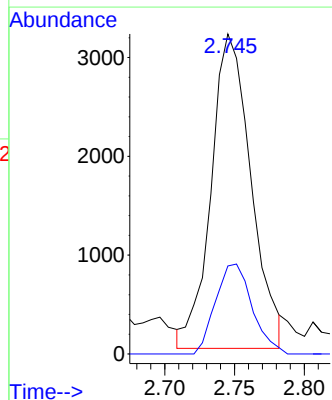
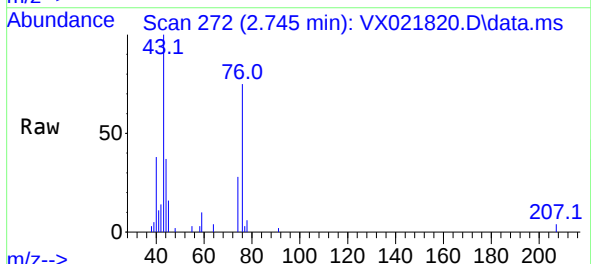
Manual Integrations
APPROVED

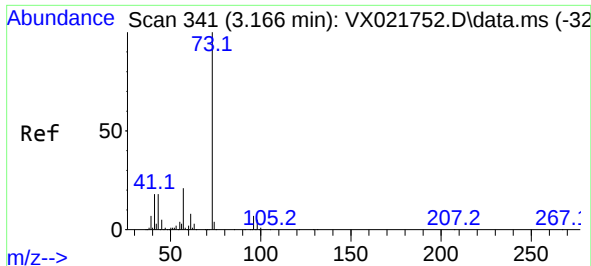
MMDadoda
4/26/2021 4:52:14 PM



#18
Methyl Acetate
Concen: 3.92 ug/l m
RT: 2.745 min Scan# 272
Delta R.T. -0.006 min
Lab File: VX021820.D
Acq: 22 Apr 2021 16:34

Tgt Ion: 43 Resp: 6327
Ion Ratio Lower Upper
43 100
74 1.3 21.9 32.9#





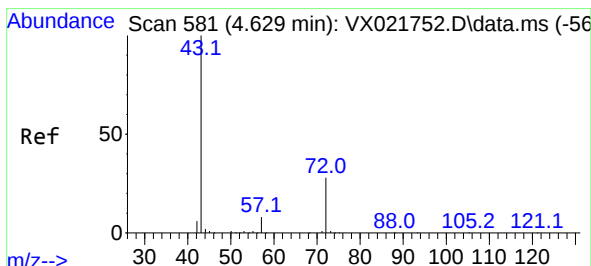
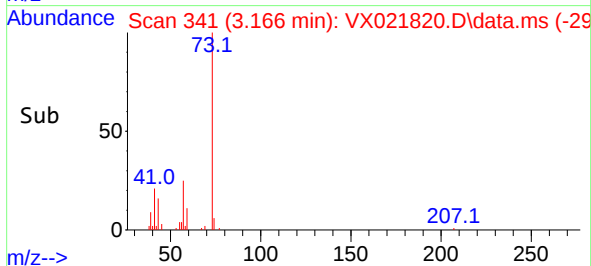
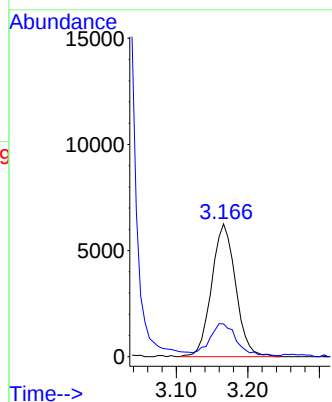
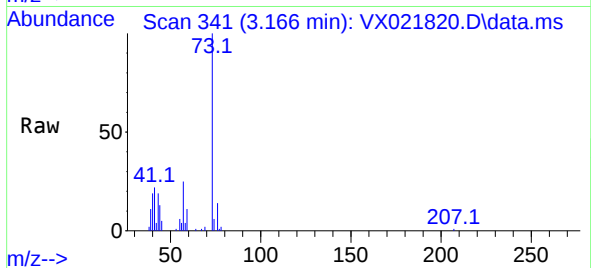
#19
Methyl tert-butyl Ether
Concen: 3.01 ug/l
RT: 3.166 min Scan# 341
Delta R.T. -0.000 min
Lab File: VX021820.D
Acq: 22 Apr 2021 16:34

Tgt Ion: 73 Resp: 14595
Ion Ratio Lower Upper
73 100
57 23.8 17.1 25.7

Instrument :
MSVOA_X
ClientSampleId :
210421084-02-VOA

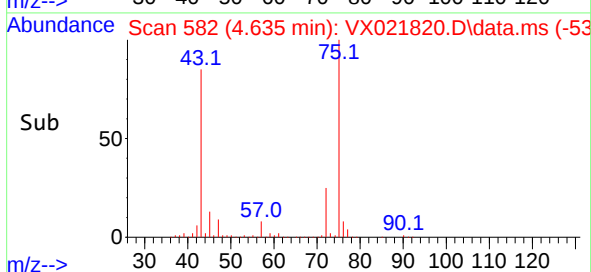
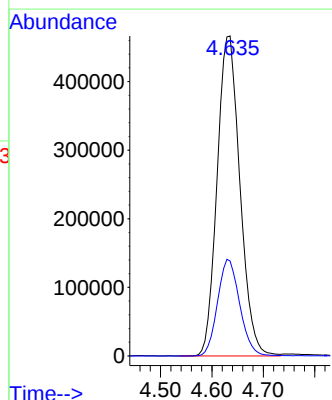
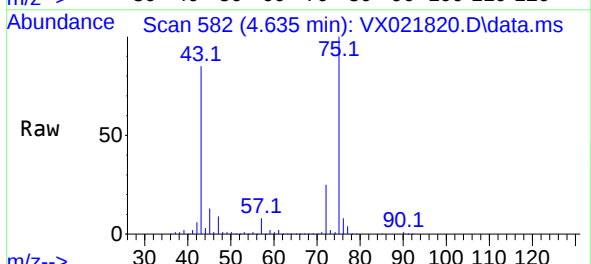
Manual Integrations
APPROVED

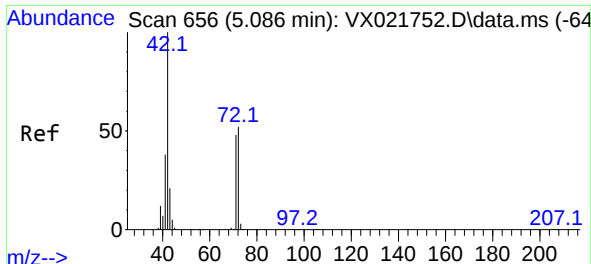
MMDadoda
4/26/2021 4:52:14 PM



#25
2-Butanone
Concen: 1428.82 ug/l
RT: 4.635 min Scan# 582
Delta R.T. 0.006 min
Lab File: VX021820.D
Acq: 22 Apr 2021 16:34

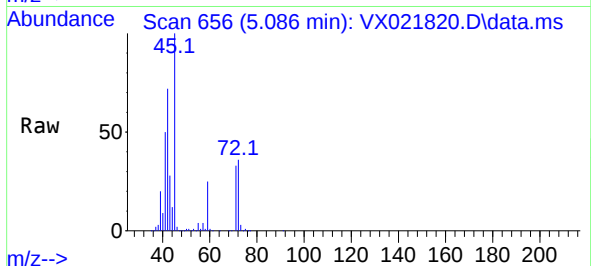
Tgt Ion: 43 Resp: 1438699
Ion Ratio Lower Upper
43 100
72 29.7 23.7 35.5





#29
Tetrahydrofuran
Concen: 558.54 ug/l
RT: 5.086 min Scan# 656
Delta R.T. 0.000 min
Lab File: VX021820.D
Acq: 22 Apr 2021 16:34

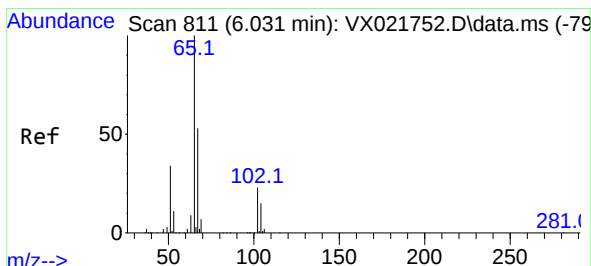
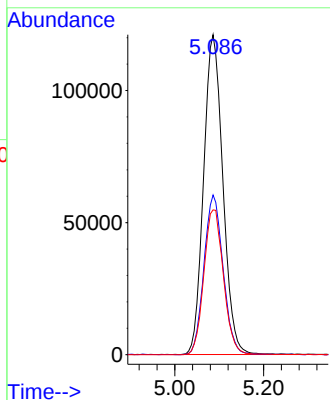
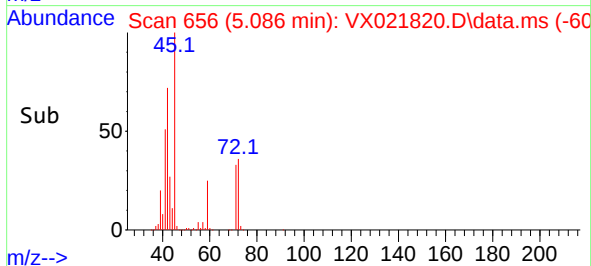
Instrument :
MSVOA_X
ClientSampleId :
210421084-02-VOA



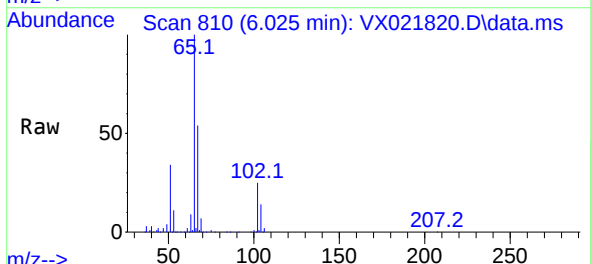
Tgt Ion: 42 Resp: 365936
Ion Ratio Lower Upper
42 100
72 49.5 41.7 62.5
71 46.1 38.4 57.6

Manual Integrations
APPROVED

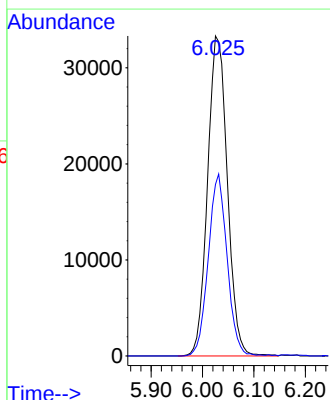
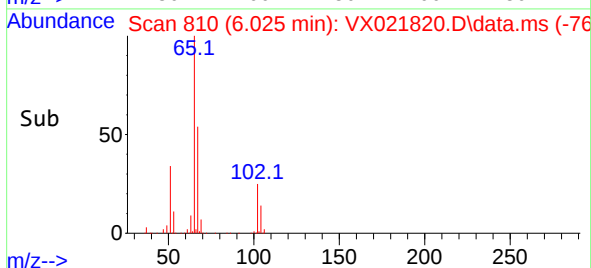
MMDadoda
4/26/2021 4:52:14 PM

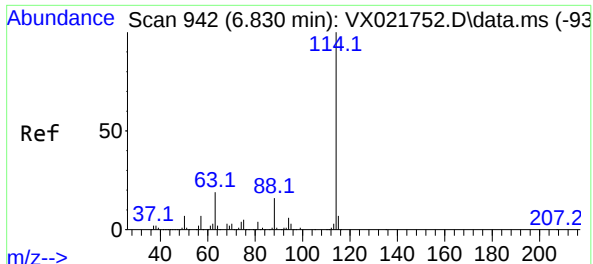


#33
1,2-Dichloroethane-d4
Concen: 51.46 ug/l
RT: 6.025 min Scan# 810
Delta R.T. -0.006 min
Lab File: VX021820.D
Acq: 22 Apr 2021 16:34



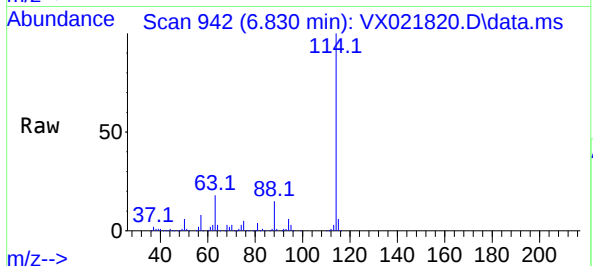
Tgt Ion: 65 Resp: 89003
Ion Ratio Lower Upper
65 100
67 54.1 0.0 105.4





#34
1,4-Difluorobenzene
Concen: 50.00 ug/l
RT: 6.830 min Scan# 942
Delta R.T. -0.000 min
Lab File: VX021820.D
Acq: 22 Apr 2021 16:34

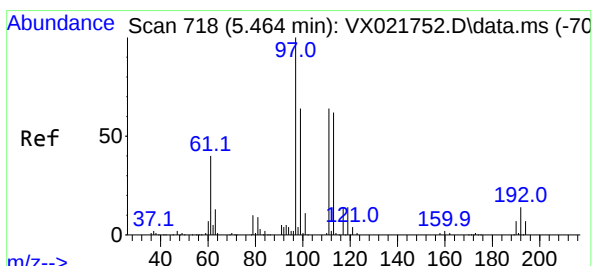
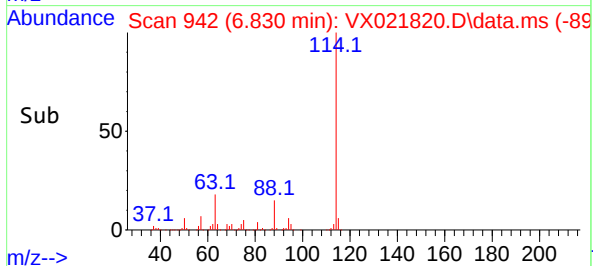
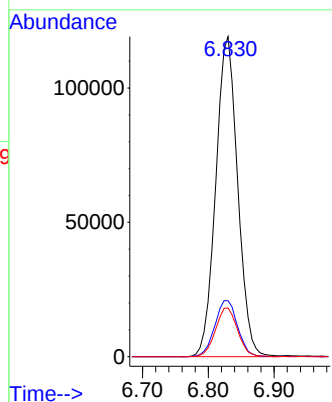
Instrument :
MSVOA_X
ClientSampleId :
210421084-02-VOA



Tgt Ion:114 Resp: 276106
Ion Ratio Lower Upper
114 100
63 17.5 0.0 40.8
88 15.2 0.0 32.8

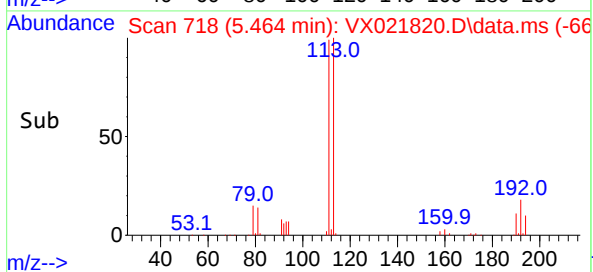
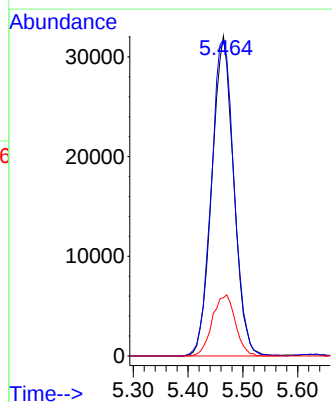
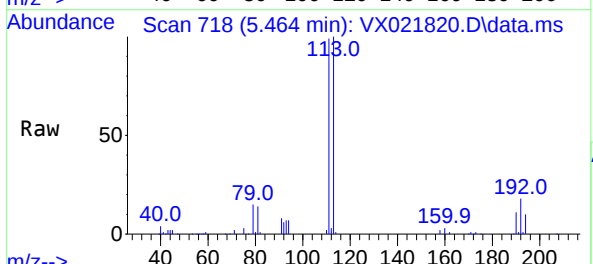
Manual Integrations
APPROVED

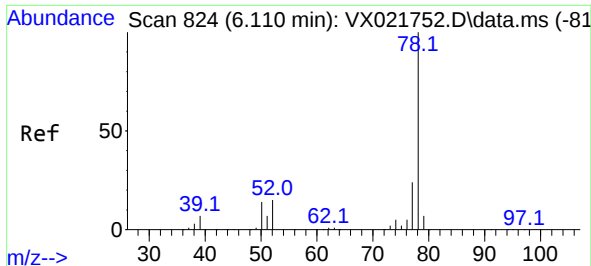
MMDadoda
4/26/2021 4:52:14 PM



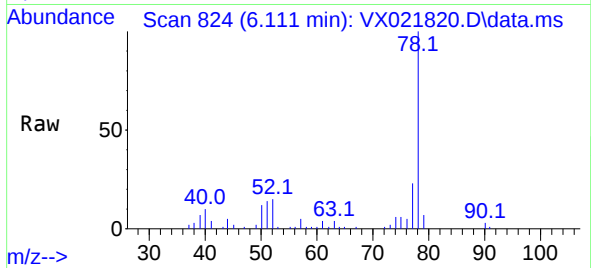
#35
Dibromofluoromethane
Concen: 50.22 ug/l
RT: 5.464 min Scan# 718
Delta R.T. 0.000 min
Lab File: VX021820.D
Acq: 22 Apr 2021 16:34

Tgt Ion:113 Resp: 88675
Ion Ratio Lower Upper
113 100
111 103.0 81.9 122.9
192 20.1 16.7 25.1

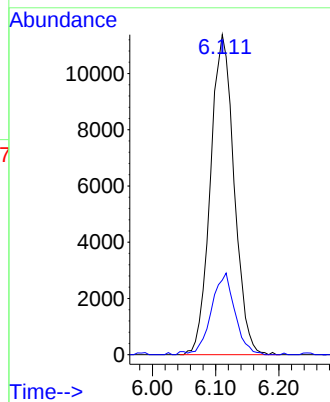
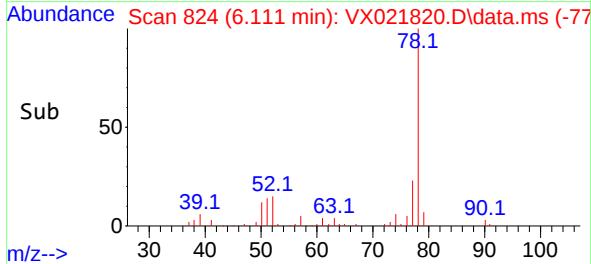




#40
Benzene
Concen: 4.07 ug/l
RT: 6.111 min Scan# 824
Delta R.T. 0.001 min
Lab File: VX021820.D
Acq: 22 Apr 2021 16:34



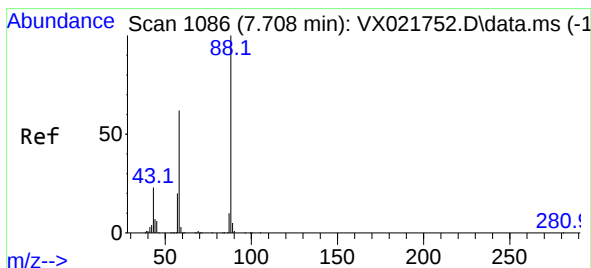
Tgt Ion: 78 Resp: 29603
Ion Ratio Lower Upper
78 100
77 23.3 18.9 28.3



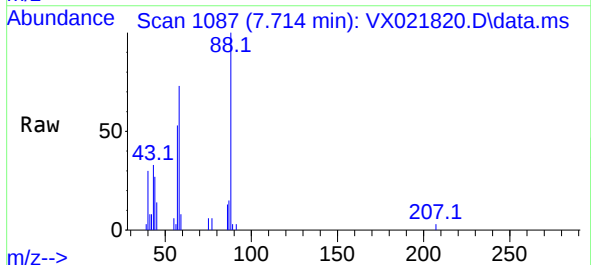
Instrument :
MSVOA_X
ClientSampleId :
210421084-02-VOA

Manual Integrations
APPROVED

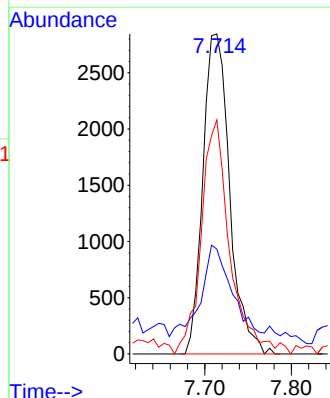
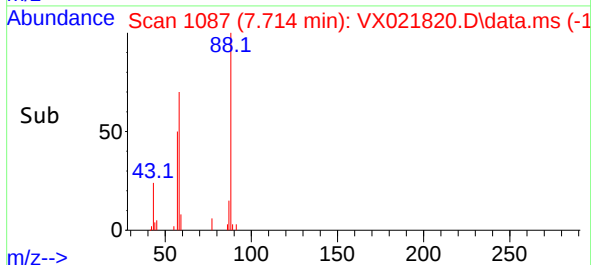
MMDadoda
4/26/2021 4:52:14 PM

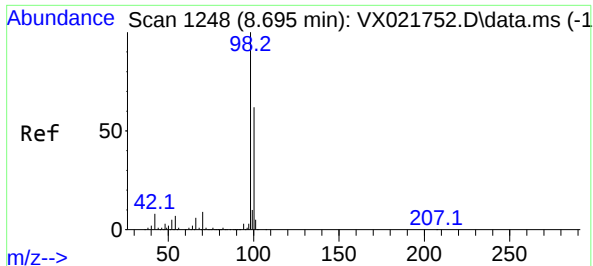


#49
1,4-Dioxane
Concen: 133.09 ug/l
RT: 7.714 min Scan# 1087
Delta R.T. 0.006 min
Lab File: VX021820.D
Acq: 22 Apr 2021 16:34



Tgt Ion: 88 Resp: 6113
Ion Ratio Lower Upper
88 100
43 32.4 23.2 34.8
58 78.2 55.0 82.4





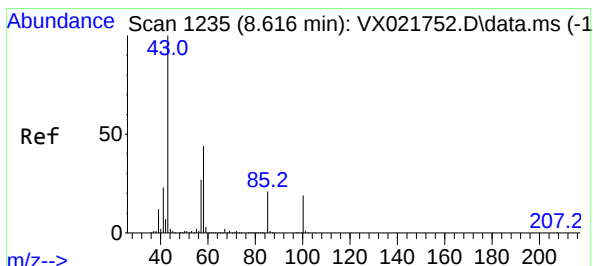
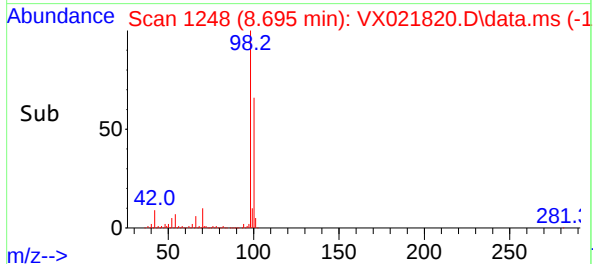
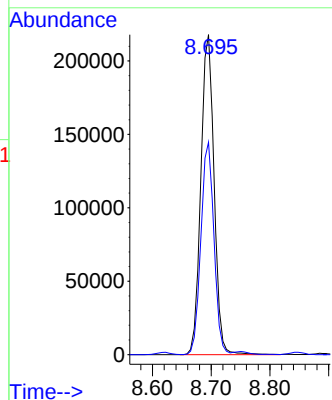
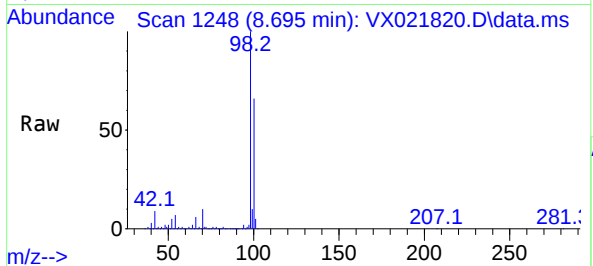
#50
Toluene-d8
Concen: 50.34 ug/l
RT: 8.695 min Scan# 1248
Delta R.T. 0.000 min
Lab File: VX021820.D
Acq: 22 Apr 2021 16:34

Tgt Ion: 98 Resp: 341736
Ion Ratio Lower Upper
98 100
100 65.3 51.9 77.9

Instrument :
MSVOA_X
ClientSampleId :
210421084-02-VOA

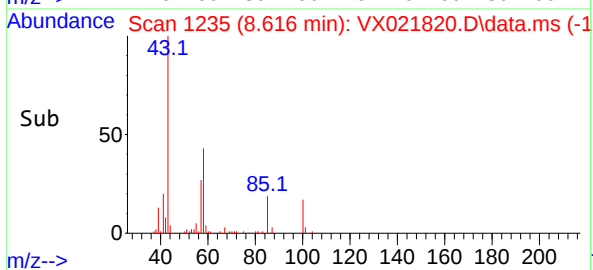
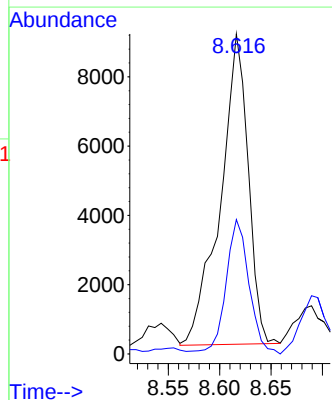
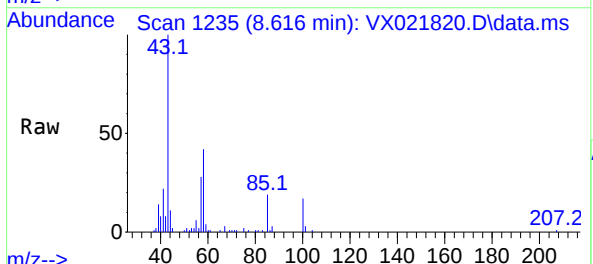
Manual Integrations
APPROVED

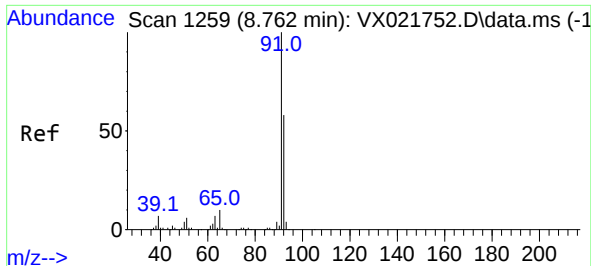
MMDadoda
4/26/2021 4:52:14 PM



#51
4-Methyl-2-Pentanone
Concen: 7.35 ug/l
RT: 8.616 min Scan# 1235
Delta R.T. 0.000 min
Lab File: VX021820.D
Acq: 22 Apr 2021 16:34

Tgt Ion: 43 Resp: 16895
Ion Ratio Lower Upper
43 100
58 35.9 35.4 53.0





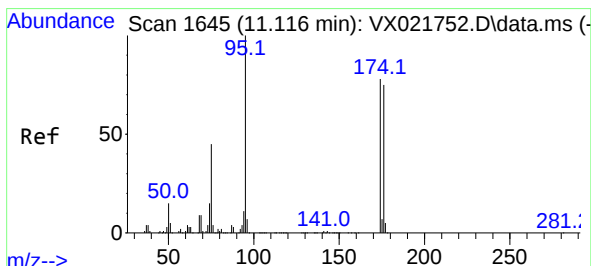
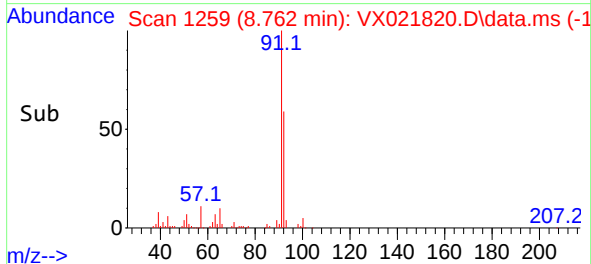
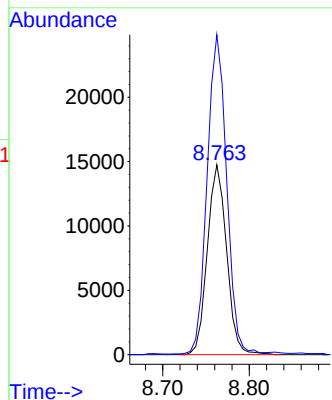
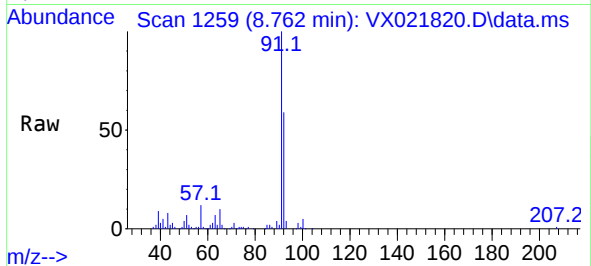
#52
Toluene
Concen: 4.84 ug/l
RT: 8.762 min Scan# 1259
Delta R.T. 0.000 min
Lab File: VX021820.D
Acq: 22 Apr 2021 16:34

Tgt Ion: 92 Resp: 22830
Ion Ratio Lower Upper
92 100
91 169.3 137.1 205.7

Instrument :
MSVOA_X
ClientSampleId :
210421084-02-VOA

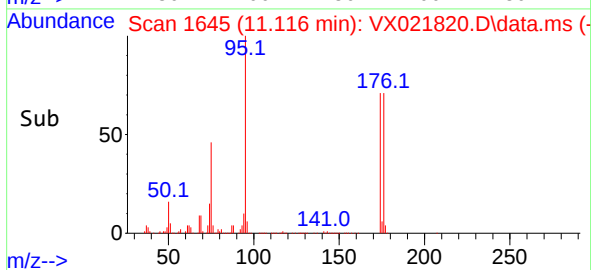
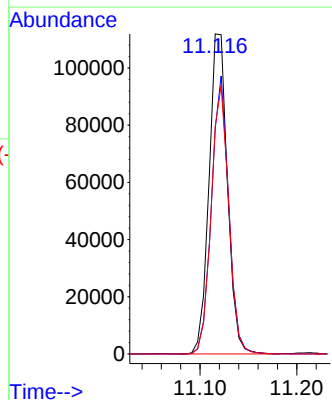
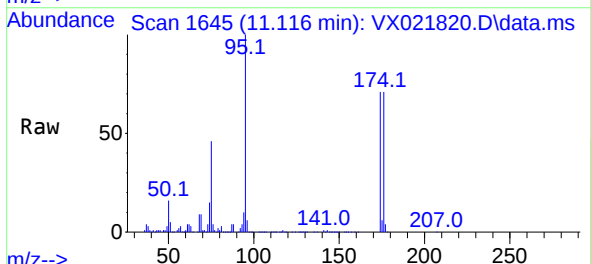
Manual Integrations
APPROVED

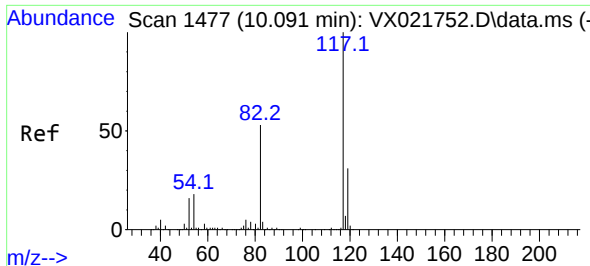
MMDadoda
4/26/2021 4:52:14 PM



#62
4-Bromofluorobenzene
Concen: 58.62 ug/l
RT: 11.116 min Scan# 1645
Delta R.T. -0.000 min
Lab File: VX021820.D
Acq: 22 Apr 2021 16:34

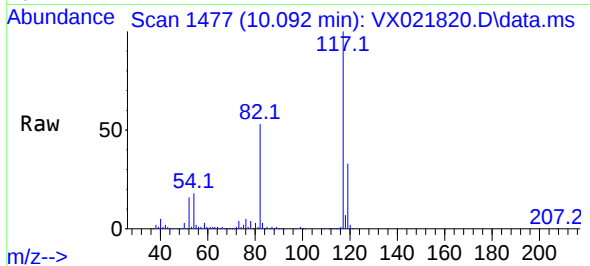
Tgt Ion: 95 Resp: 148623
Ion Ratio Lower Upper
95 100
174 80.5 0.0 154.6
176 79.6 0.0 155.8





#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.092 min Scan# 1477
Delta R.T. 0.001 min
Lab File: VX021820.D
Acq: 22 Apr 2021 16:34

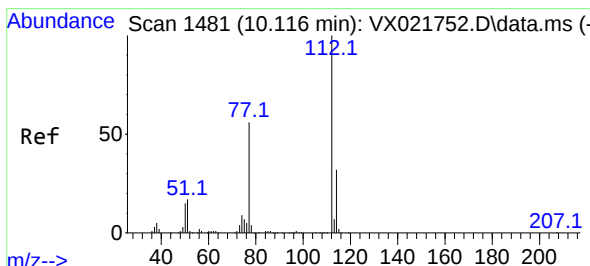
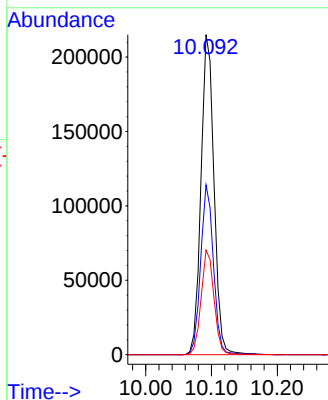
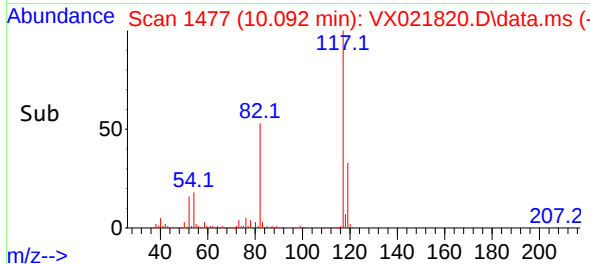
Instrument :
MSVOA_X
ClientSampleId :
210421084-02-VOA



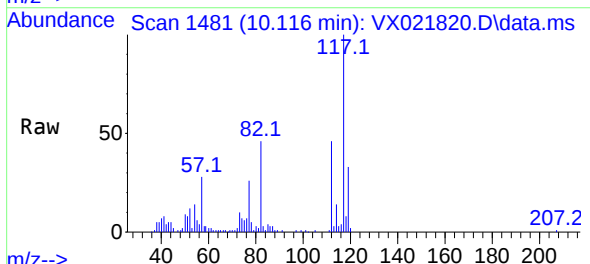
Tgt Ion:117 Resp: 295837
Ion Ratio Lower Upper
117 100
82 53.1 47.4 71.2
119 32.7 26.6 39.8

Manual Integrations
APPROVED

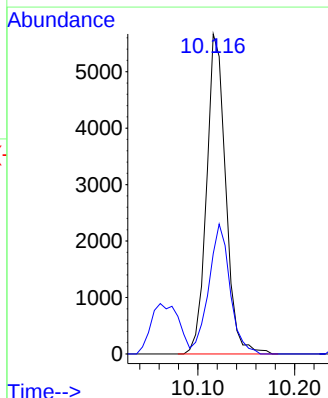
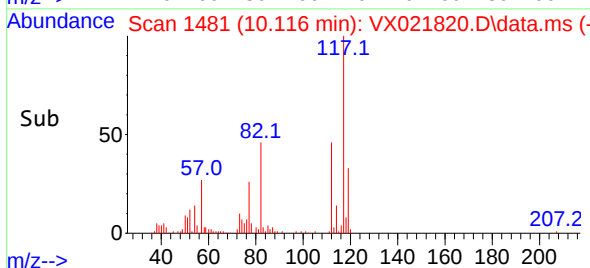
MMDadoda
4/26/2021 4:52:14 PM

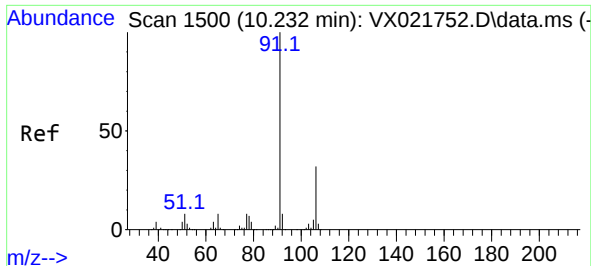


#65
Chlorobenzene
Concen: 1.27 ug/l
RT: 10.116 min Scan# 1481
Delta R.T. -0.000 min
Lab File: VX021820.D
Acq: 22 Apr 2021 16:34



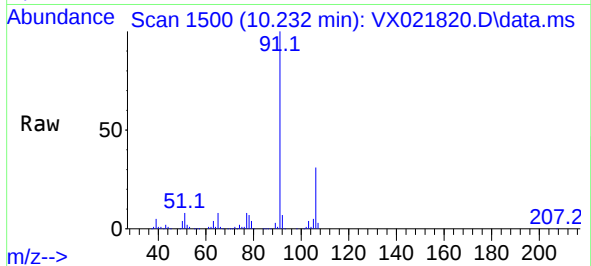
Tgt Ion:112 Resp: 7778
Ion Ratio Lower Upper
112 100
114 31.4 25.8 38.6





#67
Ethyl Benzene
Concen: 9.23 ug/l
RT: 10.232 min Scan# 1500
Delta R.T. -0.000 min
Lab File: VX021820.D
Acq: 22 Apr 2021 16:34

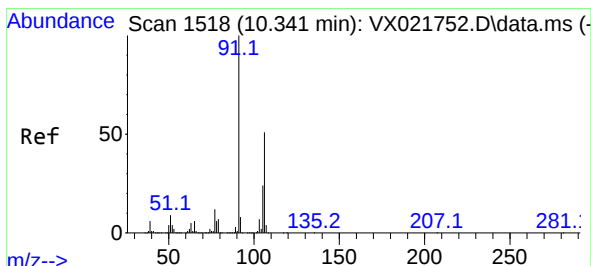
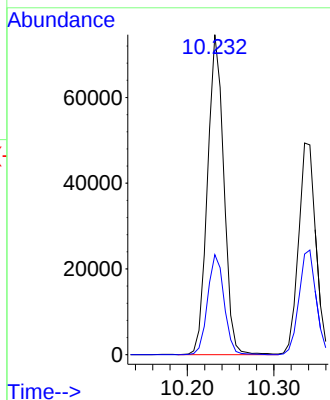
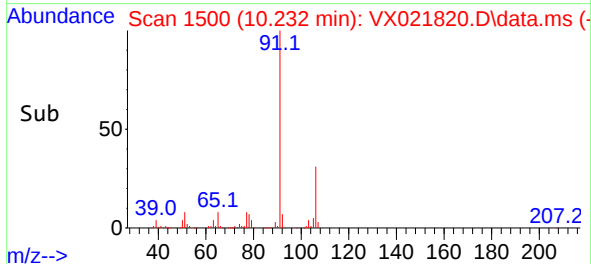
Instrument :
MSVOA_X
ClientSampleId :
210421084-02-VOA



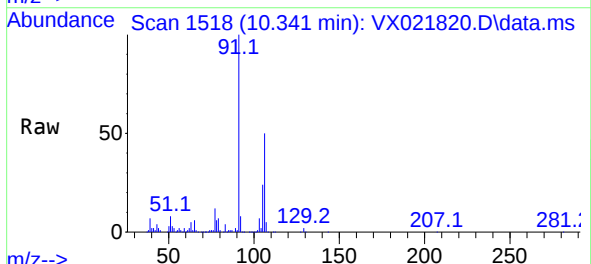
Tgt Ion: 91 Resp: 97628
Ion Ratio Lower Upper
91 100
106 31.2 24.6 37.0

Manual Integrations
APPROVED

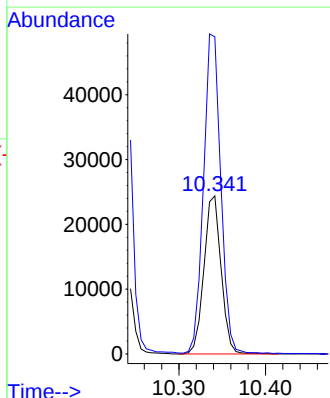
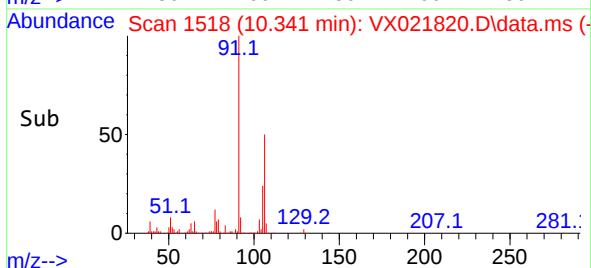
MMDadoda
4/26/2021 4:52:14 PM

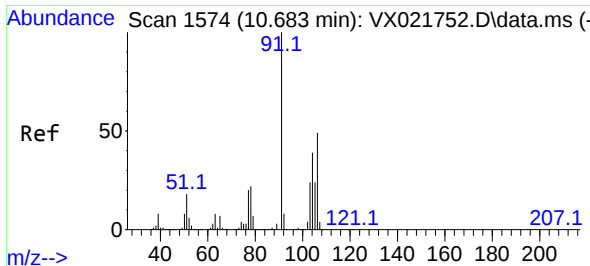


#68
m/p-Xylenes
Concen: 8.21 ug/l
RT: 10.341 min Scan# 1518
Delta R.T. 0.000 min
Lab File: VX021820.D
Acq: 22 Apr 2021 16:34

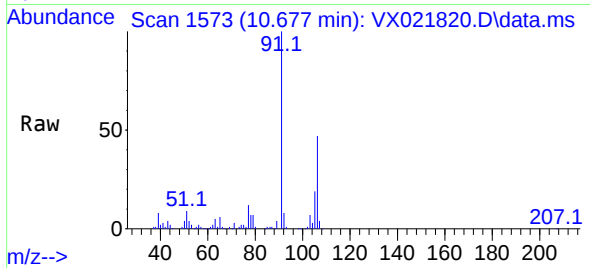


Tgt Ion: 106 Resp: 33572
Ion Ratio Lower Upper
106 100
91 204.1 162.8 244.2

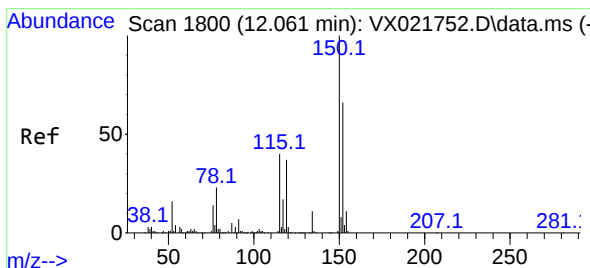
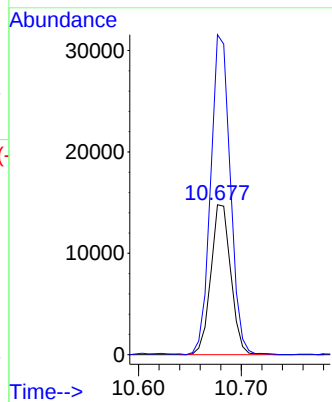
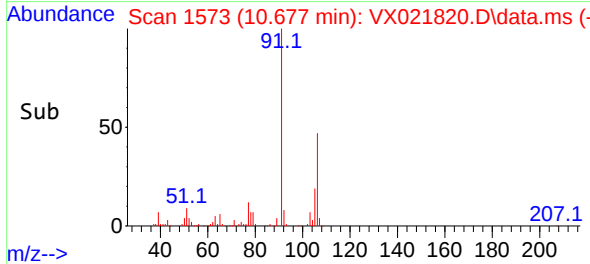




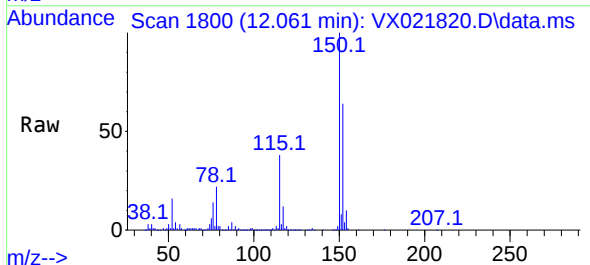
#69
o-Xylene
Concen: 5.05 ug/l
RT: 10.677 min Scan# 1573
Delta R.T. -0.006 min
Lab File: VX021820.D
Acq: 22 Apr 2021 16:34



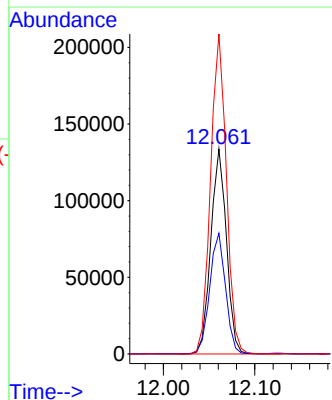
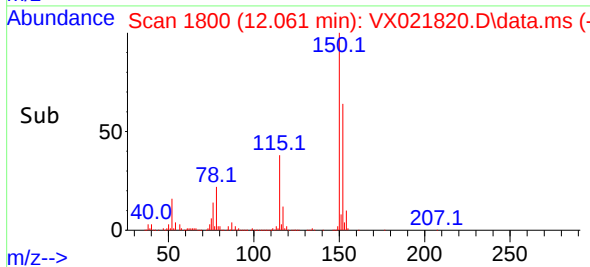
Tgt Ion:106 Resp: 19903
Ion Ratio Lower Upper
106 100
91 210.4 108.1 324.2



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.061 min Scan# 1800
Delta R.T. -0.000 min
Lab File: VX021820.D
Acq: 22 Apr 2021 16:34



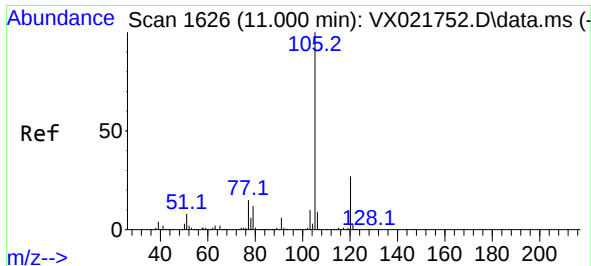
Tgt Ion:152 Resp: 158521
Ion Ratio Lower Upper
152 100
115 59.6 41.1 123.3
150 157.8 0.0 349.0



Instrument :
MSVOA_X
ClientSampleId :
210421084-02-VOA

Manual Integrations
APPROVED

MMDadoda
4/26/2021 4:52:14 PM



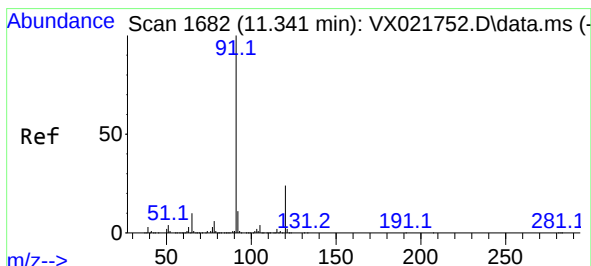
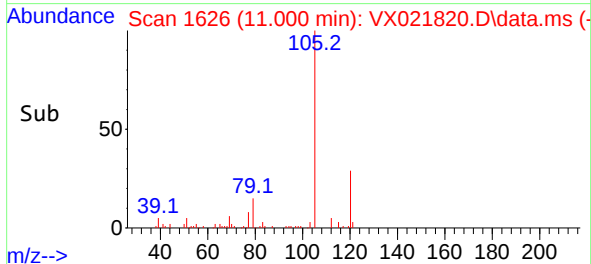
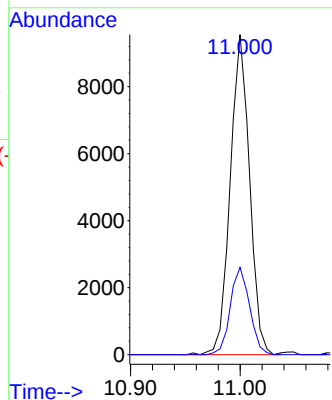
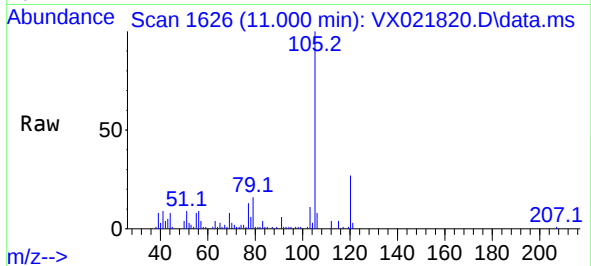
#73
Isopropylbenzene
Concen: 1.05 ug/l
RT: 11.000 min Scan# 1626
Delta R.T. -0.000 min
Lab File: VX021820.D
Acq: 22 Apr 2021 16:34

Tgt Ion: 105 Resp: 11687
Ion Ratio Lower Upper
105 100
120 27.2 13.2 39.6

Instrument :
MSVOA_X
ClientSampleId :
210421084-02-VOA

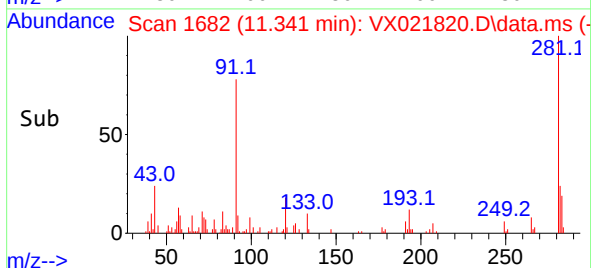
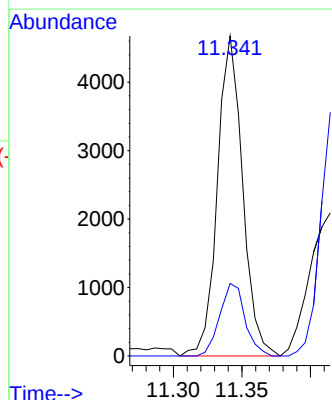
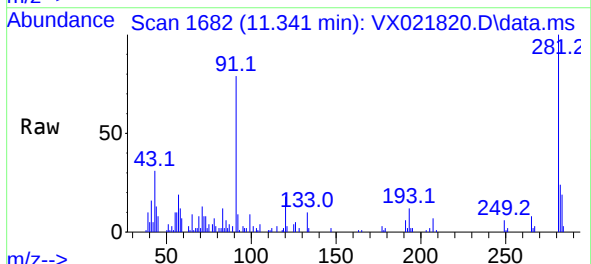
Manual Integrations
APPROVED

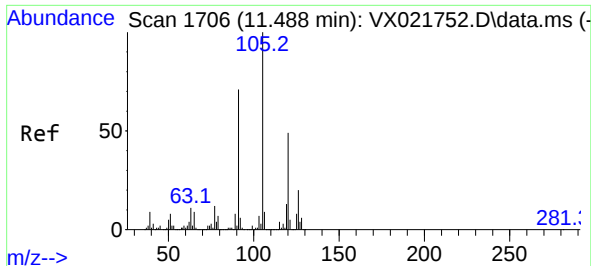
MMDadoda
4/26/2021 4:52:14 PM



#78
n-propylbenzene
Concen: 0.49 ug/l
RT: 11.341 min Scan# 1682
Delta R.T. 0.000 min
Lab File: VX021820.D
Acq: 22 Apr 2021 16:34

Tgt Ion: 91 Resp: 5973
Ion Ratio Lower Upper
91 100
120 22.8 11.5 34.5





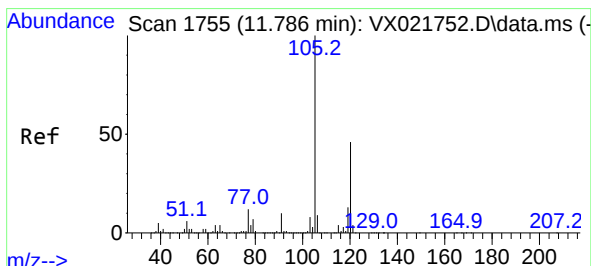
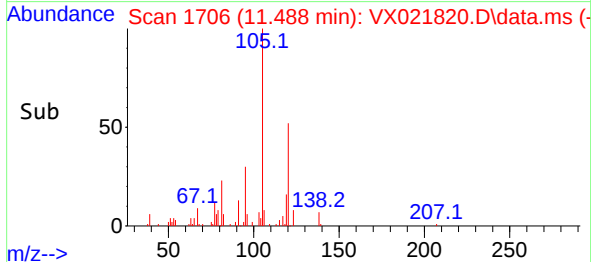
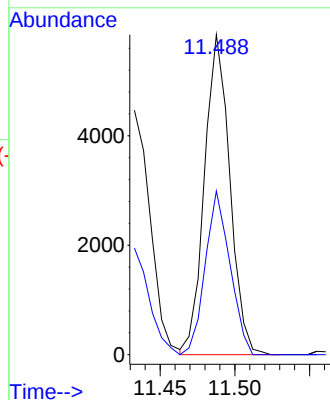
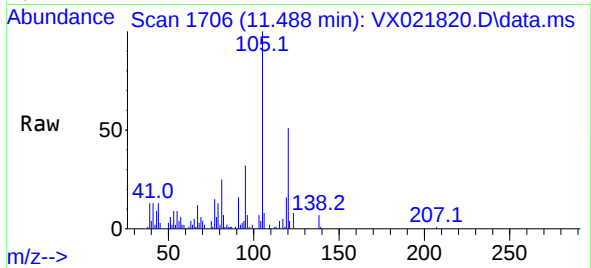
#80
1,3,5-Trimethylbenzene
Concen: 0.73 ug/l
RT: 11.488 min Scan# 1706
Delta R.T. -0.000 min
Lab File: VX021820.D
Acq: 22 Apr 2021 16:34

Tgt Ion:105 Resp: 6902
Ion Ratio Lower Upper
105 100
120 49.7 23.8 71.5

Instrument :
MSVOA_X
ClientSampleId :
210421084-02-VOA

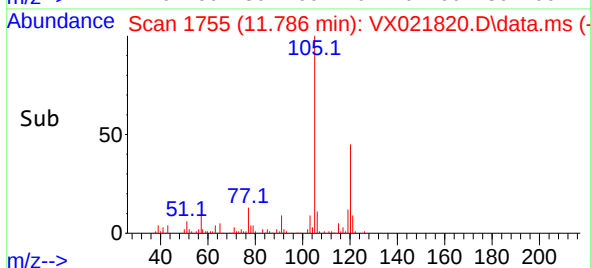
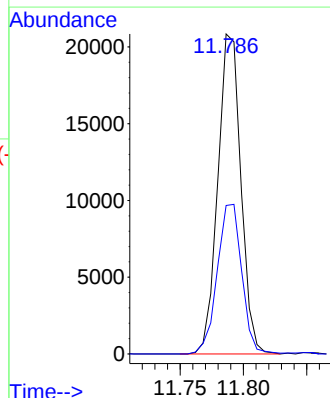
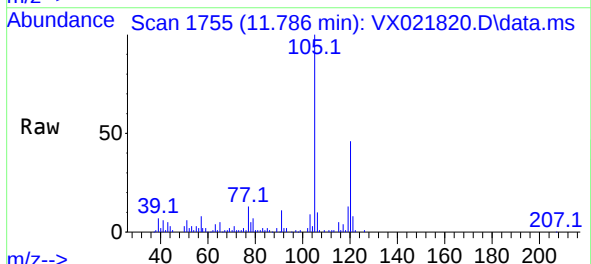
Manual Integrations
APPROVED

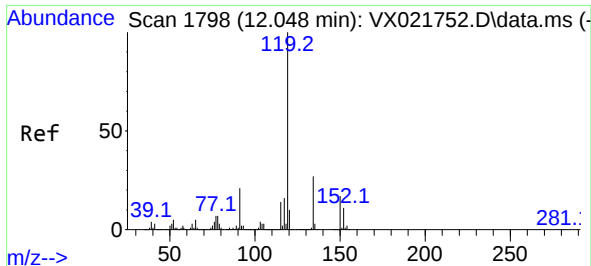
MMDadoda
4/26/2021 4:52:14 PM



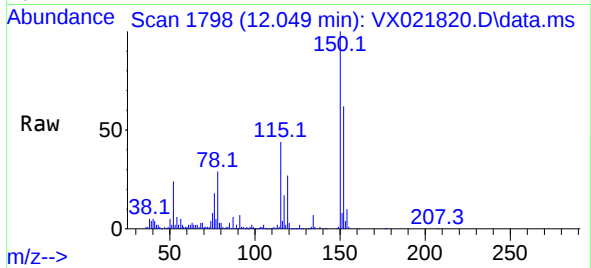
#84
1,2,4-Trimethylbenzene
Concen: 2.77 ug/l
RT: 11.786 min Scan# 1755
Delta R.T. 0.000 min
Lab File: VX021820.D
Acq: 22 Apr 2021 16:34

Tgt Ion:105 Resp: 26378
Ion Ratio Lower Upper
105 100
120 50.1 22.4 67.3

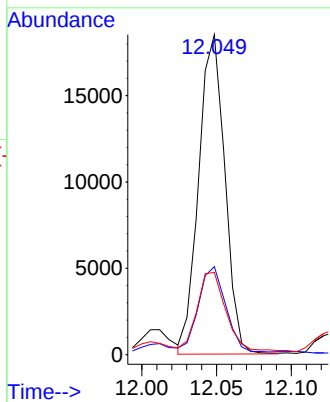
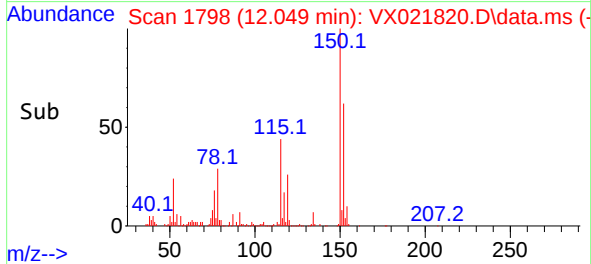




#86
p-Isopropyltoluene
Concen: 2.20 ug/l
RT: 12.049 min Scan# 1798
Delta R.T. 0.001 min
Lab File: VX021820.D
Acq: 22 Apr 2021 16:34



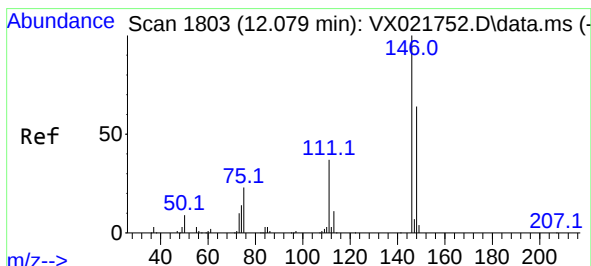
Tgt Ion:119 Resp: 22514
Ion Ratio Lower Upper
119 100
134 27.8 12.9 38.7
91 28.5 11.7 35.0



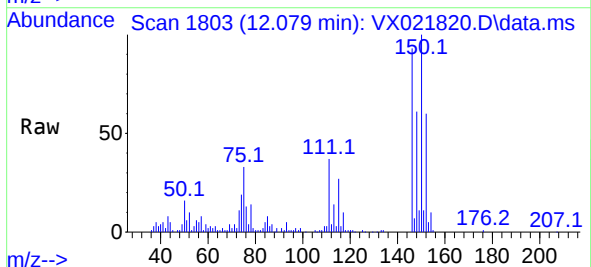
Instrument :
MSVOA_X
ClientSampleId :
210421084-02-VOA

Manual Integrations
APPROVED

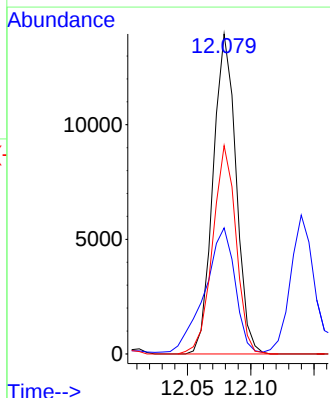
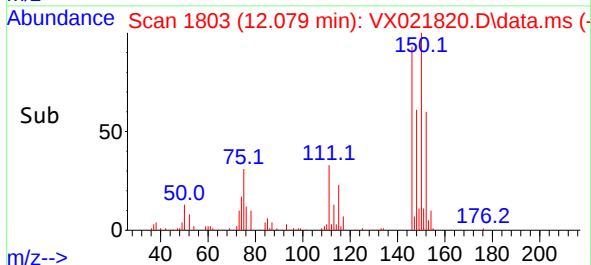
MMDadoda
4/26/2021 4:52:14 PM

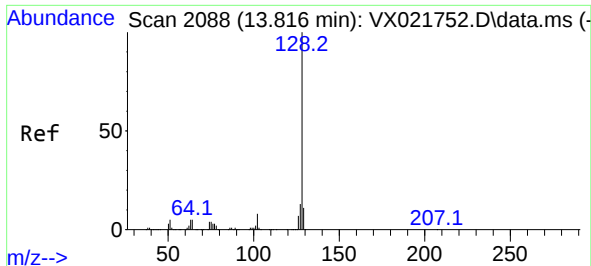


#88
1,4-Dichlorobenzene
Concen: 3.43 ug/l
RT: 12.079 min Scan# 1803
Delta R.T. -0.000 min
Lab File: VX021820.D
Acq: 22 Apr 2021 16:34

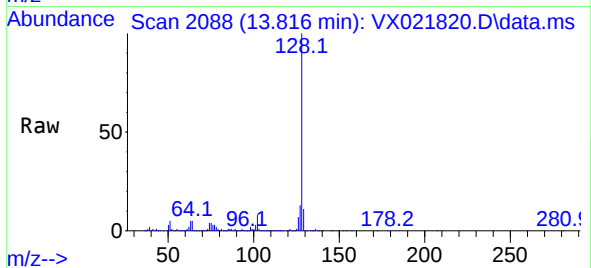


Tgt Ion:146 Resp: 17600
Ion Ratio Lower Upper
146 100
111 50.7 19.6 58.8
148 66.3 31.6 95.0



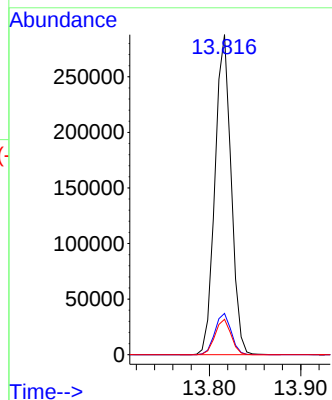
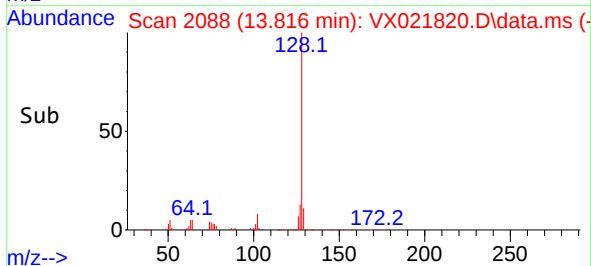


#95
Naphthalene
Concen: 33.06 ug/l
RT: 13.816 min Scan# 2088
Delta R.T. 0.000 min
Lab File: VX021820.D
Acq: 22 Apr 2021 16:34



Tgt Ion:128 Resp: 353288

Ion	Ratio	Lower	Upper
128	100		
127	13.0	10.3	15.5
129	11.0	8.8	13.2



Instrument :
MSVOA_X
ClientSampleId :
210421084-02-VOA

Manual Integrations
APPROVED

MMDadoda
4/26/2021 4:52:14 PM