

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW060322\
 Data File : VW023391.D
 Acq On : 03 Jun 2022 11:52
 Operator : SY/VA
 Sample : N3171-19
 Misc : 5.00g/10mL/MSVOA_W/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 DBTY5

Quant Time: Jun 03 23:34:47 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM060222SMA.M
 Quant Title : SFAM01.0
 QLast Update : Fri Jun 03 23:33:12 2022
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	8.842	114	396160	25.000	ug/L	0.00
28) Chlorobenzene-d5	11.628	117	379174	25.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	13.554	152	203022	25.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	2.355	65	136301	23.265	ug/L	0.00
Spiked Amount 25.000	Range 30 - 150		Recovery =	93.080%		
7) Chloroethane-d5	2.885	69	96194	23.684	ug/L	0.00
Spiked Amount 25.000	Range 30 - 150		Recovery =	94.720%		
11) 1,1-Dichloroethene-d2	4.019	63	188808	20.967	ug/L	0.00
Spiked Amount 25.000	Range 45 - 110		Recovery =	83.880%		
21) 2-Butanone-d5	7.074	46	56707	47.166	ug/L	0.00
Spiked Amount 50.000	Range 20 - 135		Recovery =	94.340%		
24) Chloroform-d	7.647	84	244198	23.408	ug/L	0.00
Spiked Amount 25.000	Range 40 - 150		Recovery =	93.640%		
26) 1,2-Dichloroethane-d4	8.305	65	130683	23.917	ug/L	0.00
Spiked Amount 25.000	Range 70 - 130		Recovery =	95.680%		
32) Benzene-d6	8.275	84	466398	22.892	ug/L	0.00
Spiked Amount 25.000	Range 20 - 135		Recovery =	91.560%		
36) 1,2-Dichloropropane-d6	9.275	67	133393	22.886	ug/L	0.00
Spiked Amount 25.000	Range 70 - 120		Recovery =	91.560%		
41) Toluene-d8	10.323	98	442333	22.771	ug/L	0.00
Spiked Amount 25.000	Range 30 - 130		Recovery =	91.080%		
43) trans-1,3-Dichloroprop...	10.579	79	56523	21.723	ug/L	0.00
Spiked Amount 25.000	Range 30 - 135		Recovery =	86.880%		
47) 2-Hexanone-d5	10.921	63	43356	46.302	ug/L	0.00
Spiked Amount 50.000	Range 20 - 135		Recovery =	92.600%		
56) 1,1,2,2-Tetrachloroeth...	12.689	84	120345	23.409	ug/L	0.00
Spiked Amount 25.000	Range 45 - 120		Recovery =	93.640%		
66) 1,2-Dichlorobenzene-d4	13.853	152	165451	23.055	ug/L	0.00
Spiked Amount 25.000	Range 75 - 120		Recovery =	92.200%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.008	85	12754	8.042	ug/L	97
3) Chloromethane	2.221	50	65692	13.428	ug/L	99
5) Vinyl chloride	2.361	62	194450	25.534	ug/L	99
6) Bromomethane	2.776	94	42351	11.392	ug/L	86
8) Chloroethane	2.922	64	33563	9.640	ug/L	99
9) Trichlorofluoromethane	3.257	101	40126	11.155	ug/L	96
10) 1,1,2-Trichloro-1,2,2-...	4.062	101	116586	22.368	ug/L	97
12) 1,1-Dichloroethene	4.038	96	78080	17.198	ug/L	92
15) Methyl Acetate	4.666	43	49972	25.756	ug/L	98
16) Methylene chloride	4.916	84	115780	20.402	ug/L	97
18) Methyl tert-butyl Ether	5.428	73	347340	44.545	ug/L	100
22) 2-Butanone	7.165	43	90952	69.265	ug/L	95
25) Chloroform	7.677	83	207757	21.156	ug/L	98
29) Cyclohexane	7.958	56	170626	21.069	ug/L	100
33) Benzene	8.323	78	942855	43.409	ug/L	100
34) Trichloroethene	9.092	95	320957	54.560	ug/L	95
42) Toluene	10.384	91	1323491	54.848	ug/L	100
45) 1,1,2-Trichloroethane	10.786	97	86463	20.638	ug/L	99
46) Tetrachloroethene	10.860	164	49368	10.481	ug/L	96

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

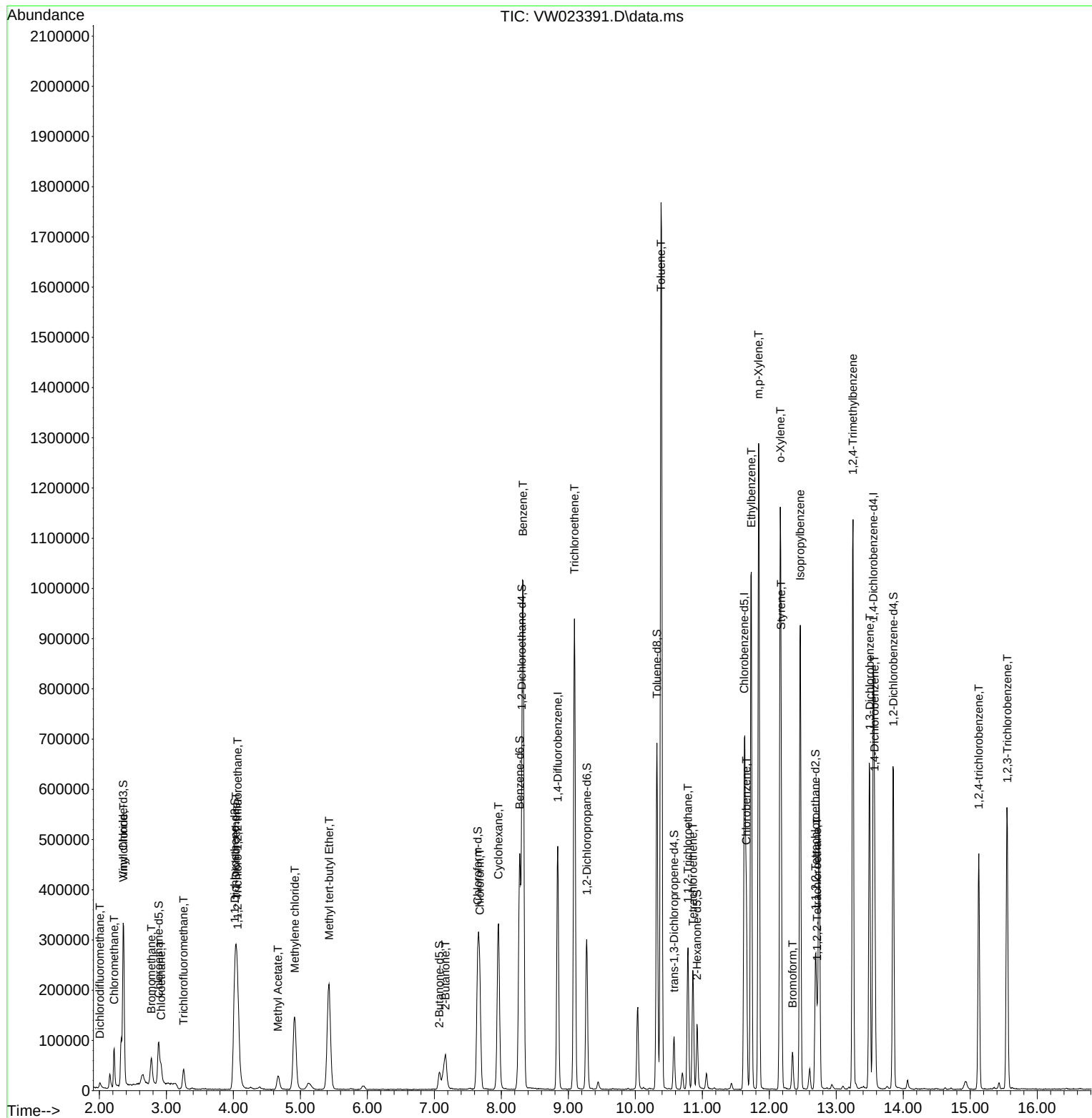
51) Chlorobenzene	11.658	112	206041	12.932	ug/L	96
52) Ethylbenzene	11.731	91	730208	27.557	ug/L	99
53) m,p-Xylene	11.841	106	348120	33.175	ug/L	94
54) o-Xylene	12.164	106	275001	27.393	ug/L	97
55) Styrene	12.176	104	188228	11.001	ug/L	93
57) 1,1,2,2-Tetrachloroethane	12.713	83	60713	12.269	ug/L	99
59) Bromoform	12.347	173	29760	9.985	ug/L	96
60) Isopropylbenzene	12.463	105	603993	21.692	ug/L	99
63) 1,2,4-Trimethylbenzene	13.249	105	608922	34.380	ug/L	98
64) 1,3-Dichlorobenzene	13.499	146	264299	20.879	ug/L	95
65) 1,4-Dichlorobenzene	13.573	146	131919	10.195	ug/L	99
70) 1,2,4-trichlorobenzene	15.127	180	132760	19.987	ug/L	98
72) 1,2,3-Trichlorobenzene	15.554	180	174361	30.327	ug/L	97

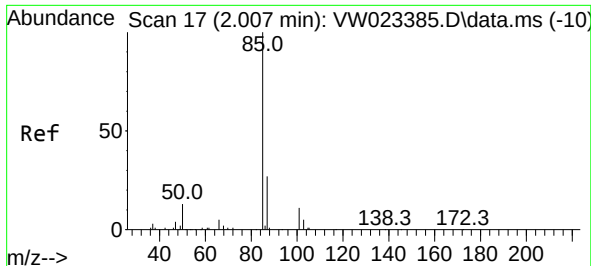
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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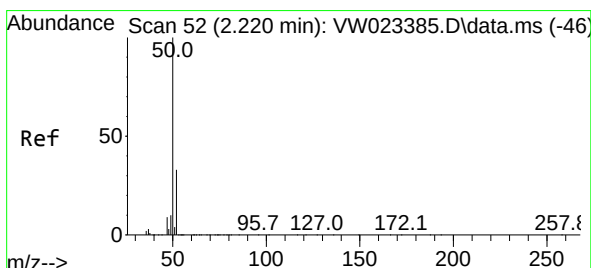
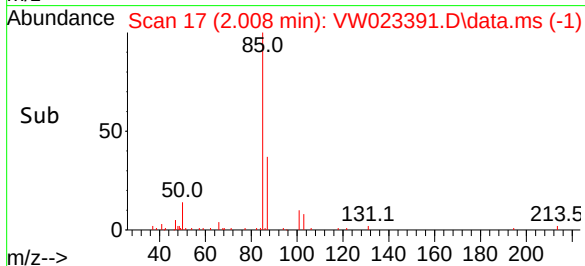
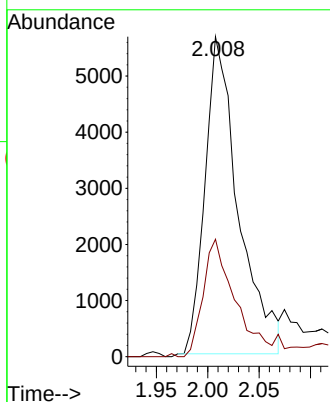
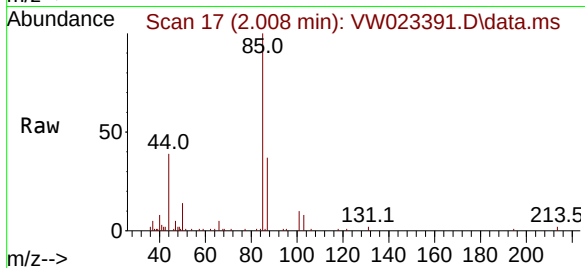




#2
Dichlorodifluoromethane
Concen: 8.042 ug/L
RT: 2.008 min Scan# 11
Delta R.T. 0.000 min
Lab File: VW023391.D
Acq: 03 Jun 2022 11:52

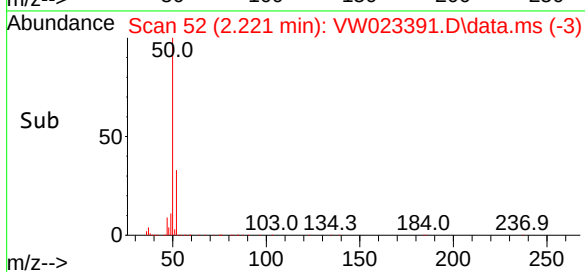
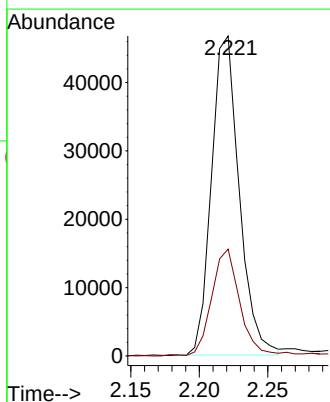
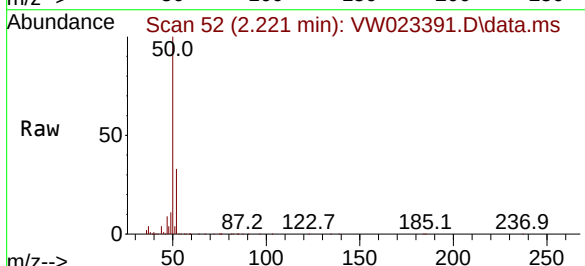
Instrument :
MSVOA_W
ClientSampleId :
DBTY5

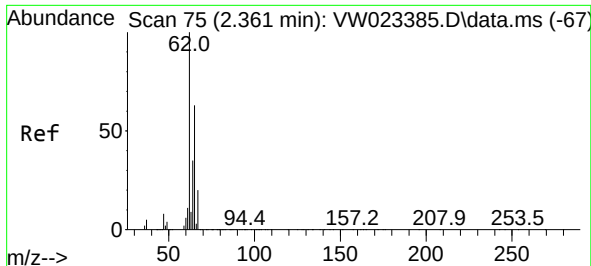
Tgt Ion: 85 Resp: 12754
Ion Ratio Lower Upper
85 100
87 32.9 27.8 41.8



#3
Chloromethane
Concen: 13.428 ug/L
RT: 2.221 min Scan# 52
Delta R.T. 0.000 min
Lab File: VW023391.D
Acq: 03 Jun 2022 11:52

Tgt Ion: 50 Resp: 65692
Ion Ratio Lower Upper
50 100
52 33.4 23.1 42.9

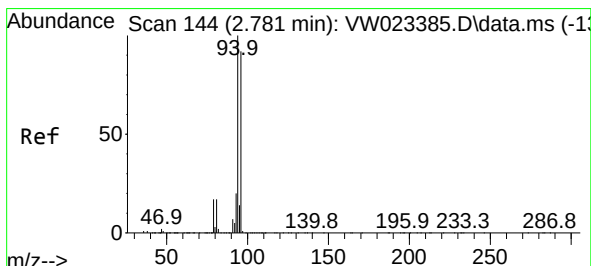
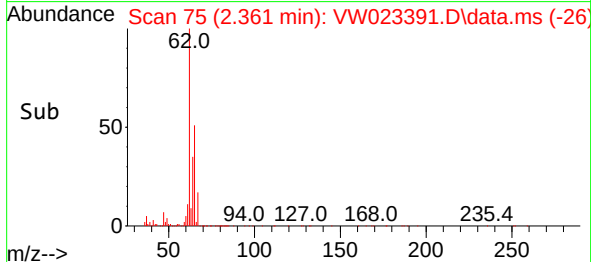
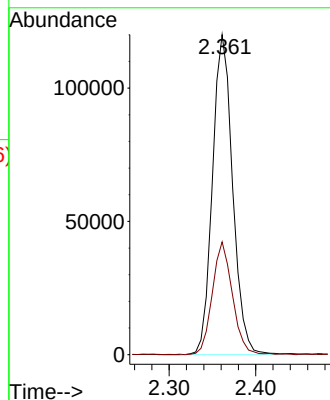
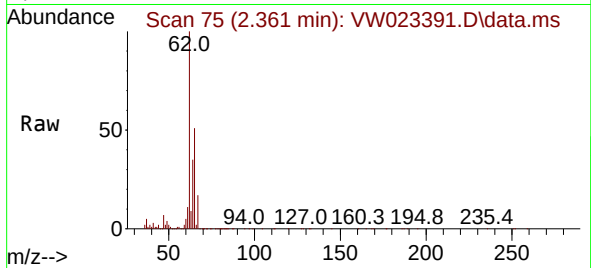




#5
 Vinyl chloride
 Concen: 25.534 ug/L
 RT: 2.361 min Scan# 75
 Delta R.T. 0.000 min
 Lab File: VW023391.D
 Acq: 03 Jun 2022 11:52

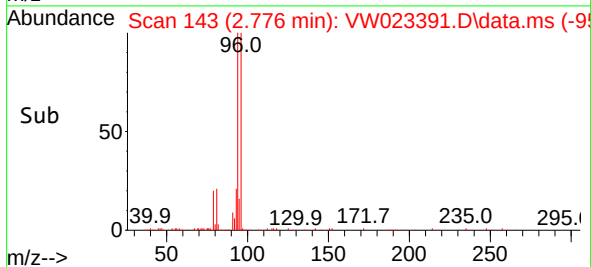
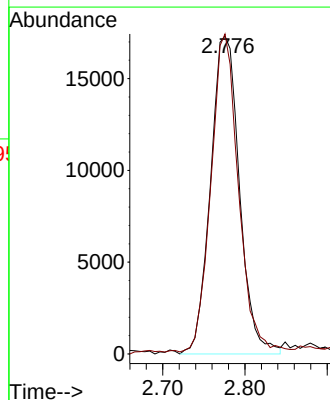
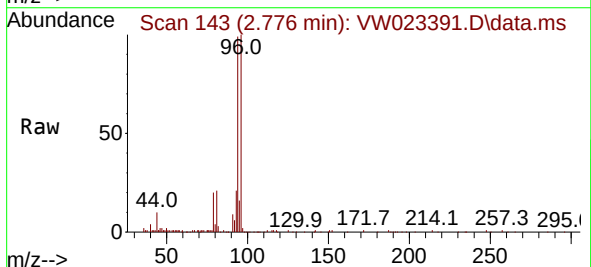
Instrument :
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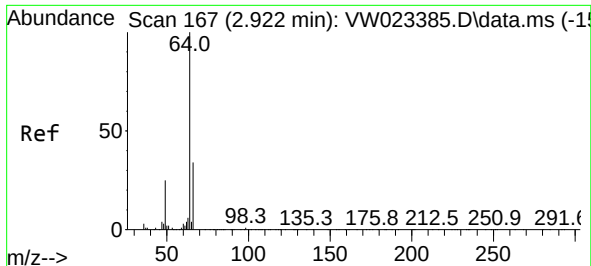
Tgt Ion: 62 Resp: 194450
 Ion Ratio Lower Upper
 62 100
 64 35.2 24.9 46.3



#6
 Bromomethane
 Concen: 11.392 ug/L
 RT: 2.776 min Scan# 143
 Delta R.T. -0.006 min
 Lab File: VW023391.D
 Acq: 03 Jun 2022 11:52

Tgt Ion: 94 Resp: 42351
 Ion Ratio Lower Upper
 94 100
 96 100.7 61.7 114.5

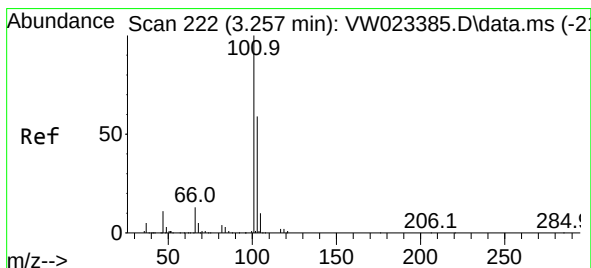
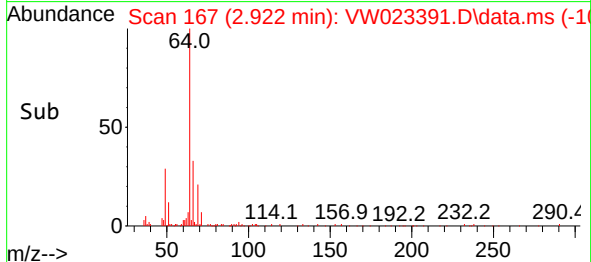
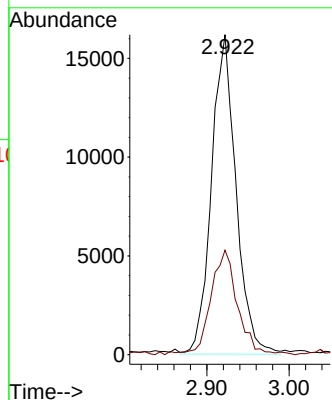
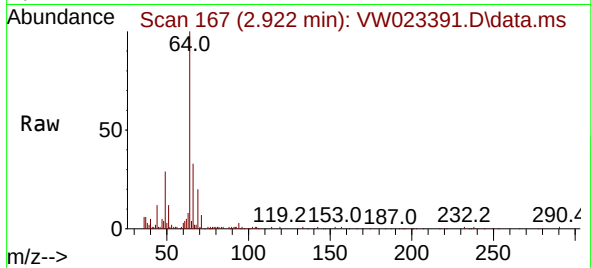




#8
Chloroethane
Concen: 9.640 ug/L
RT: 2.922 min Scan# 167
Delta R.T. 0.000 min
Lab File: VW023391.D
Acq: 03 Jun 2022 11:52

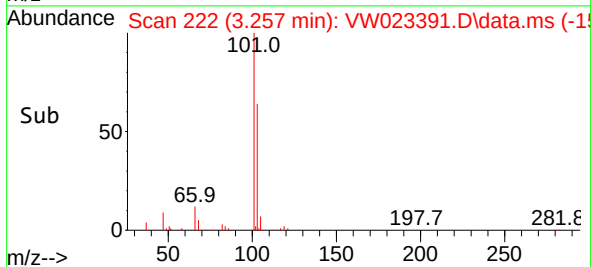
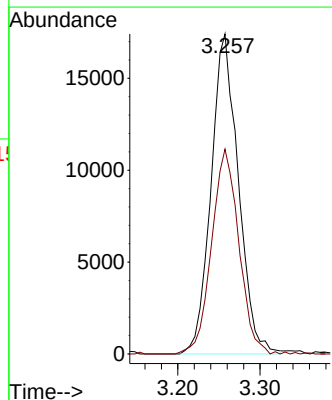
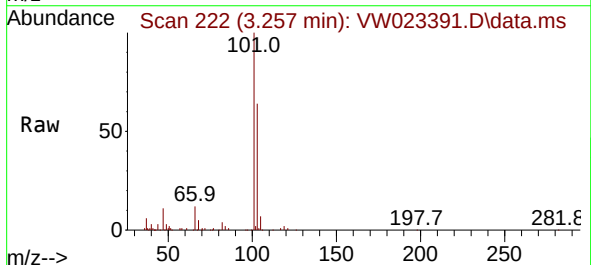
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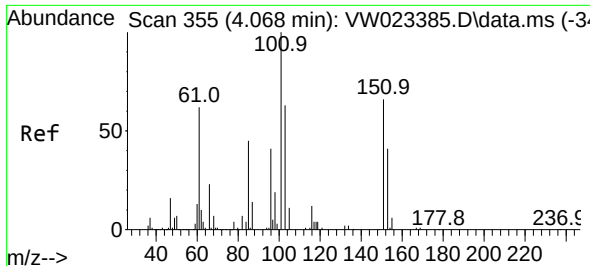
Tgt Ion: 64 Resp: 33563
Ion Ratio Lower Upper
64 100
66 32.6 23.4 43.6



#9
Trichlorofluoromethane
Concen: 11.155 ug/L
RT: 3.257 min Scan# 222
Delta R.T. 0.000 min
Lab File: VW023391.D
Acq: 03 Jun 2022 11:52

Tgt Ion: 101 Resp: 40126
Ion Ratio Lower Upper
101 100
103 63.8 53.9 80.9

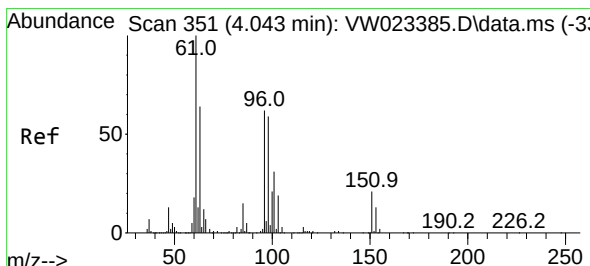
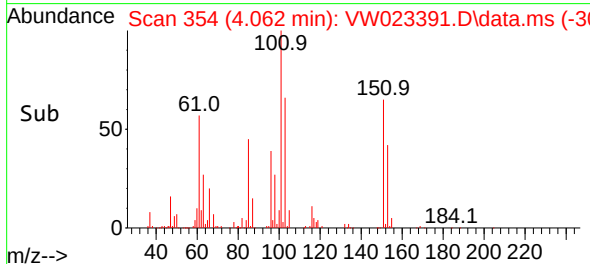
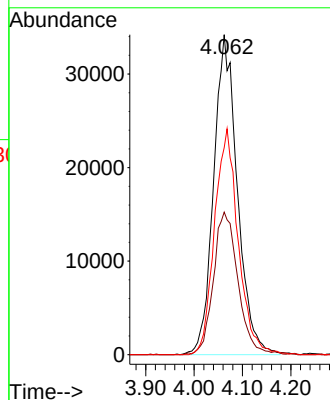
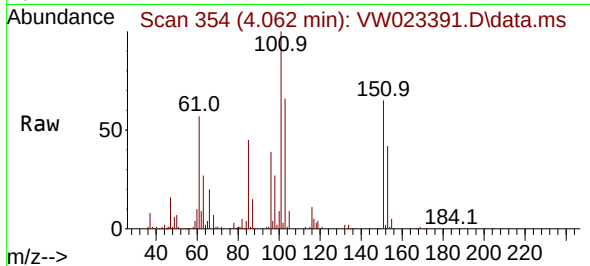




#10
 1,1,2-Trichloro-1,2,2-trifluoroethane
 Concen: 22.368 ug/L
 RT: 4.062 min Scan# 31
 Delta R.T. -0.006 min
 Lab File: VW023391.D
 Acq: 03 Jun 2022 11:52

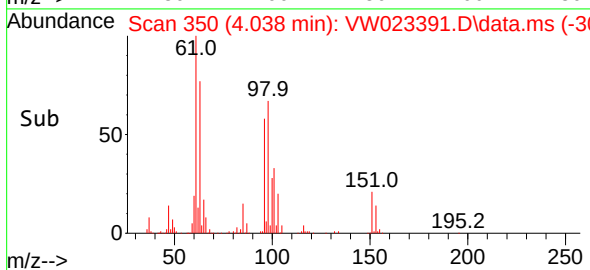
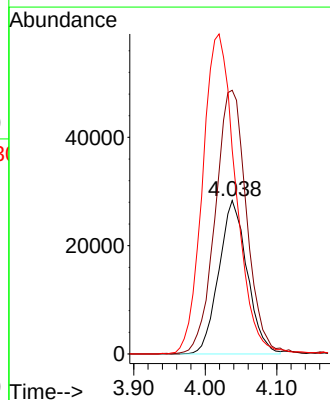
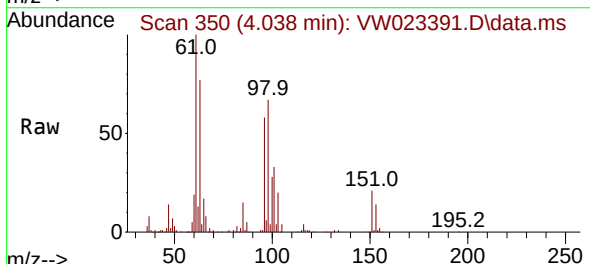
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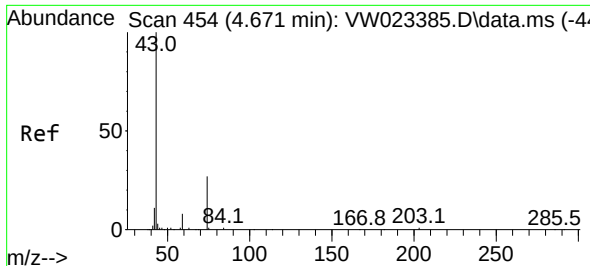
Tgt Ion:101 Resp: 116586
 Ion Ratio Lower Upper
 101 100
 85 45.2 34.3 51.5
 151 70.2 54.2 81.2



#12
 1,1-Dichloroethene
 Concen: 17.198 ug/L
 RT: 4.038 min Scan# 350
 Delta R.T. -0.006 min
 Lab File: VW023391.D
 Acq: 03 Jun 2022 11:52

Tgt Ion: 96 Resp: 78080
 Ion Ratio Lower Upper
 96 100
 61 171.8 125.7 233.5
 63 133.0 83.4 155.0

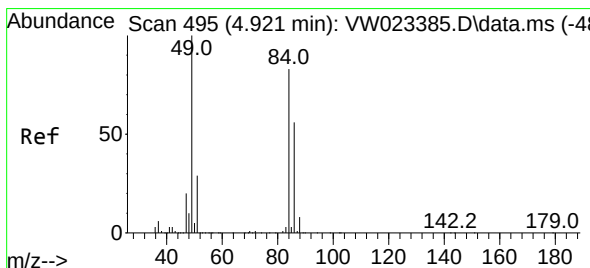
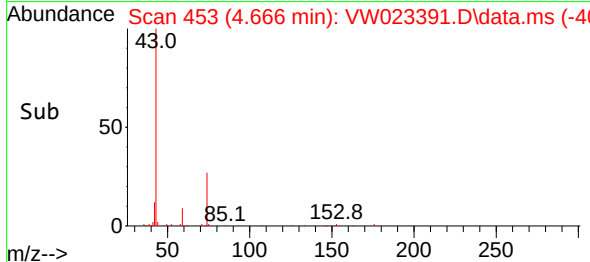
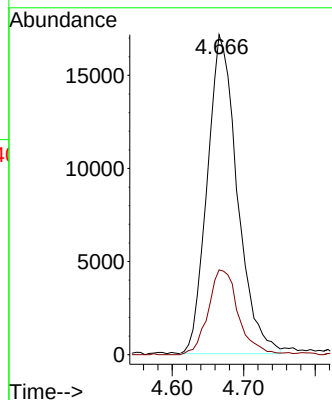
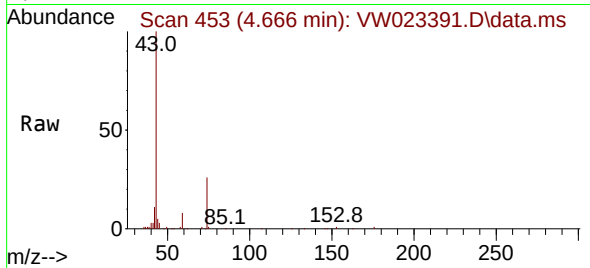




#15
Methyl Acetate
Concen: 25.756 ug/L
RT: 4.666 min Scan# 41
Delta R.T. -0.006 min
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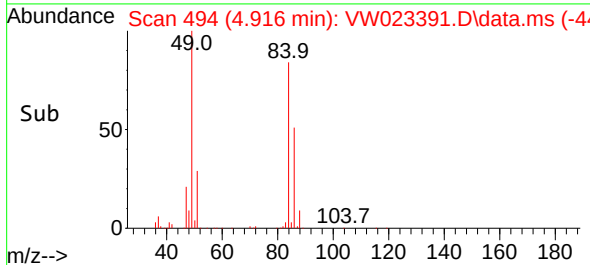
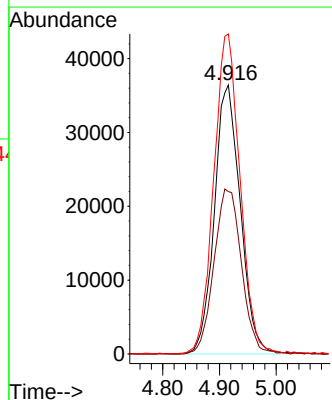
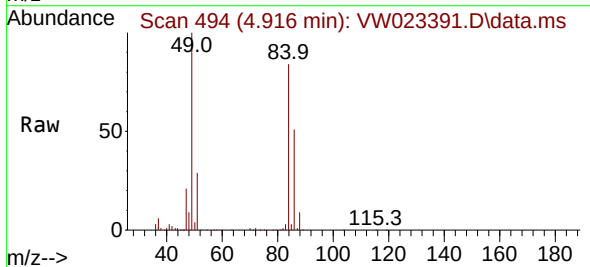
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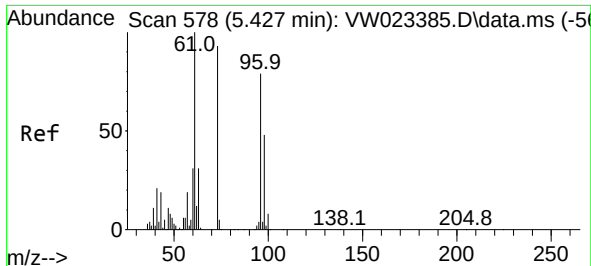
Tgt Ion: 43 Resp: 49972
Ion Ratio Lower Upper
43 100
74 26.6 21.9 32.9



#16
Methylene chloride
Concen: 20.402 ug/L
RT: 4.916 min Scan# 494
Delta R.T. -0.006 min
Lab File: VW023391.D
Acq: 03 Jun 2022 11:52

Tgt Ion: 84 Resp: 115780
Ion Ratio Lower Upper
84 100
86 60.4 45.4 84.4
49 119.0 82.5 153.1

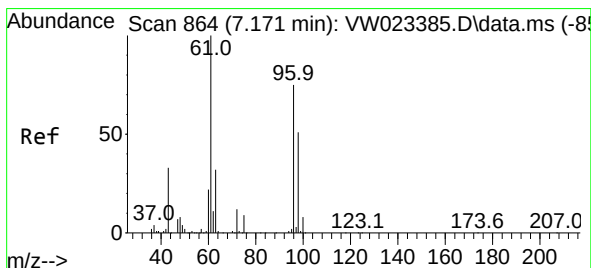
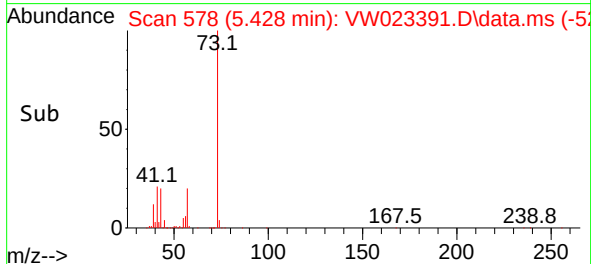
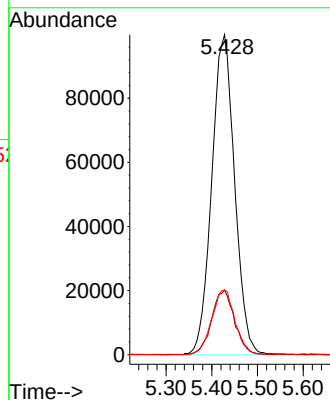
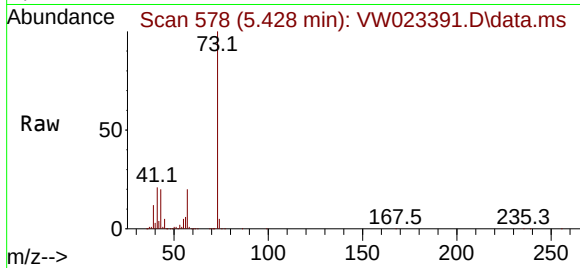




#18
Methyl tert-butyl Ether
Concen: 44.545 ug/L
RT: 5.428 min Scan# 51
Delta R.T. 0.000 min
Lab File: VW023391.D
Acq: 03 Jun 2022 11:52

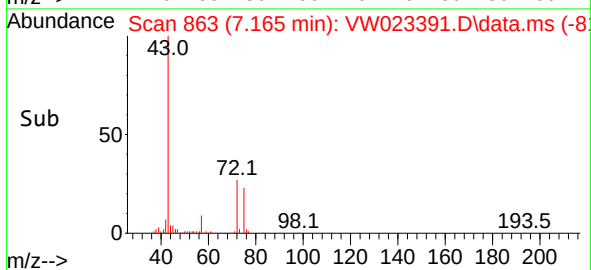
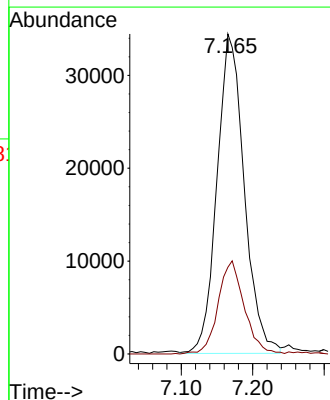
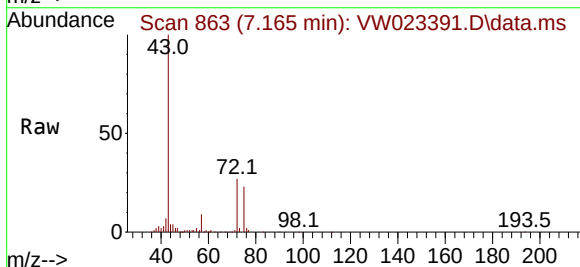
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ClientSampleId :
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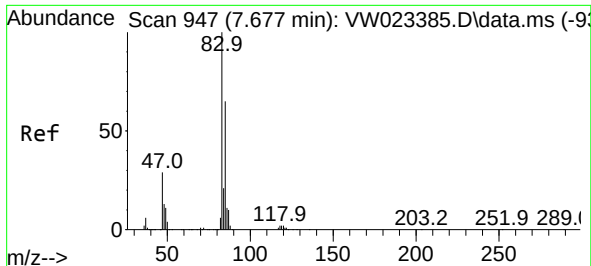
Tgt Ion: 73 Resp: 347340
Ion Ratio Lower Upper
73 100
43 20.1 15.9 23.9
57 20.6 16.5 24.7



#22
2-Butanone
Concen: 69.265 ug/L
RT: 7.165 min Scan# 863
Delta R.T. -0.006 min
Lab File: VW023391.D
Acq: 03 Jun 2022 11:52

Tgt Ion: 43 Resp: 90952
Ion Ratio Lower Upper
43 100
72 27.7 15.1 45.3

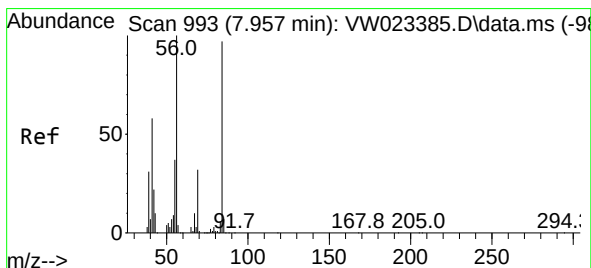
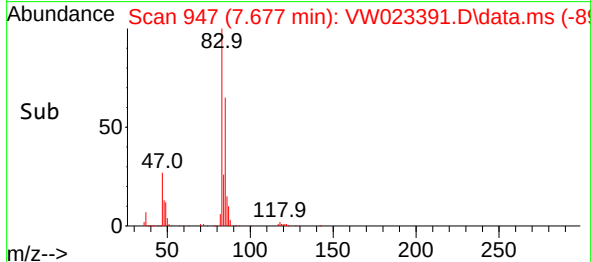
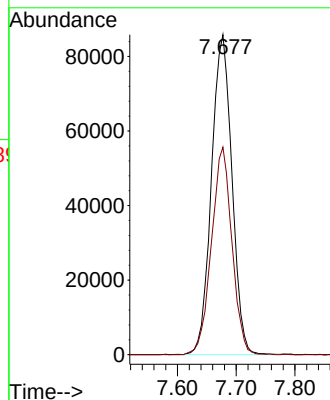
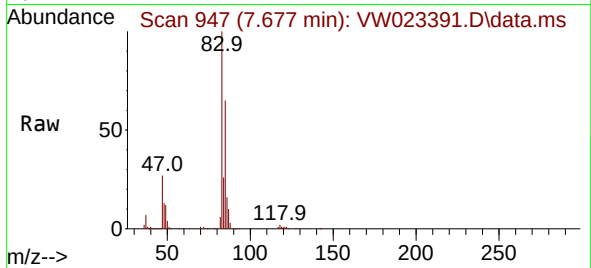




#25
Chloroform
Concen: 21.156 ug/L
RT: 7.677 min Scan# 947
Delta R.T. 0.000 min
Lab File: VW023391.D
Acq: 03 Jun 2022 11:52

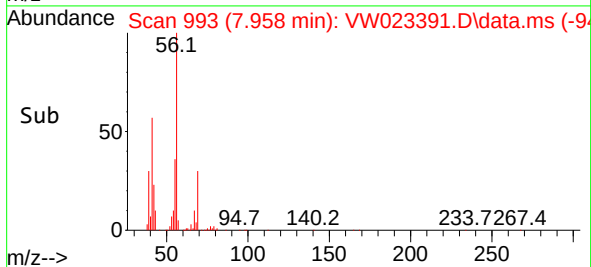
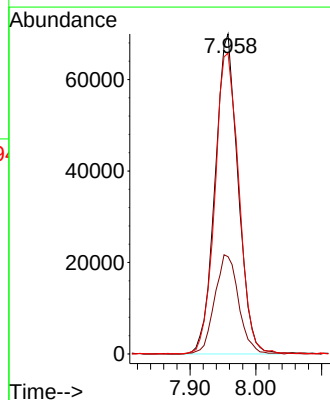
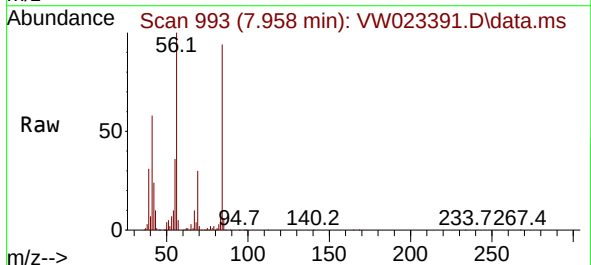
Instrument :
MSVOA_W
ClientSampleId :
DBTY5

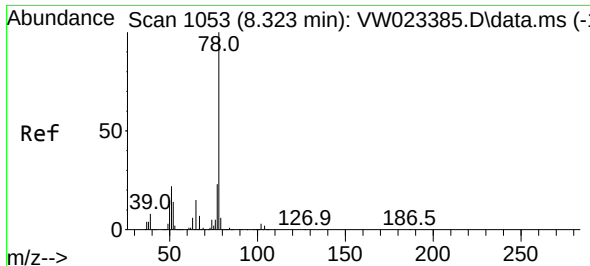
Tgt Ion: 83 Resp: 207757
Ion Ratio Lower Upper
83 100
85 64.9 46.6 86.6



#29
Cyclohexane
Concen: 21.069 ug/L
RT: 7.958 min Scan# 993
Delta R.T. 0.000 min
Lab File: VW023391.D
Acq: 03 Jun 2022 11:52

Tgt Ion: 56 Resp: 170626
Ion Ratio Lower Upper
56 100
69 32.1 25.6 38.4
84 97.5 78.2 117.4

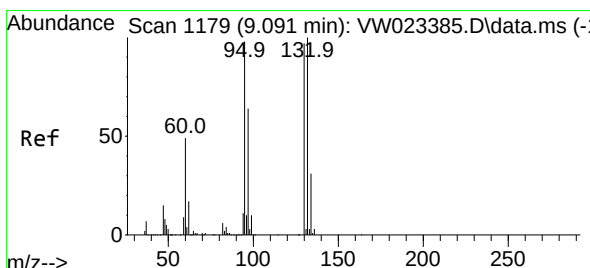
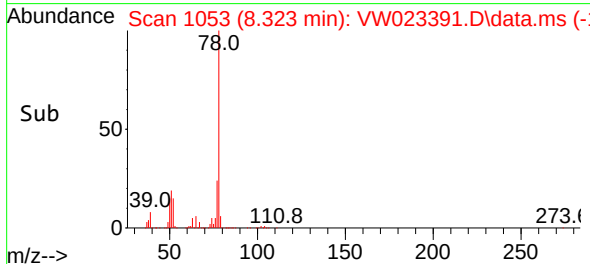
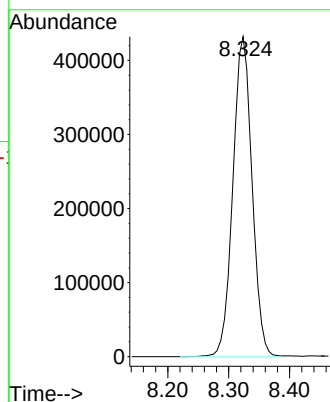
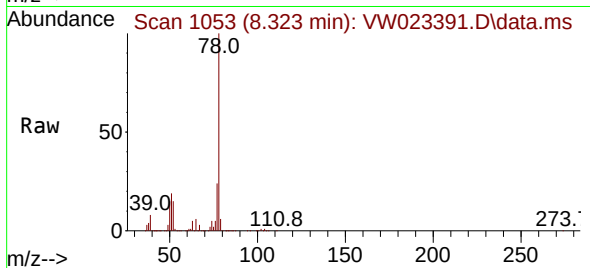




#33
Benzene
Concen: 43.409 ug/L
RT: 8.323 min Scan# 1053
Delta R.T. 0.000 min
Lab File: VW023391.D
Acq: 03 Jun 2022 11:52

Instrument :
MSVOA_W
ClientSampleId :
DBTY5

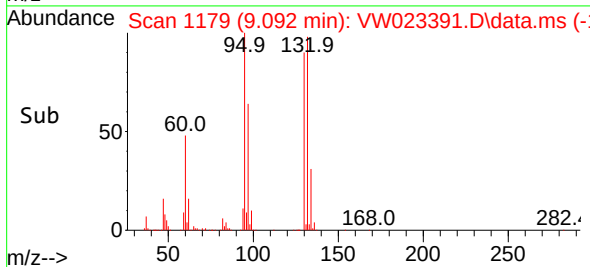
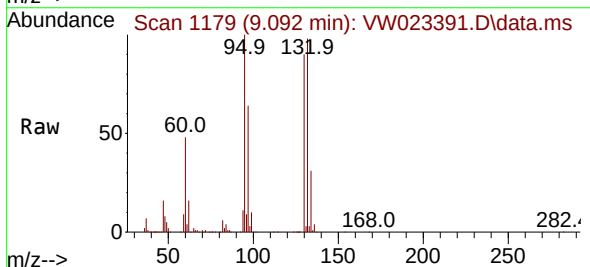
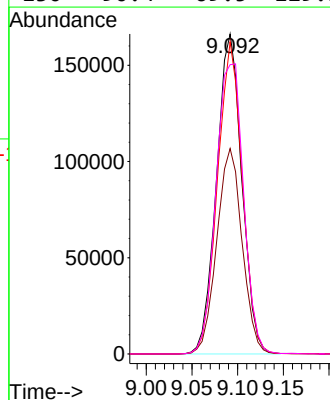
Tgt Ion: 78 Resp: 942855

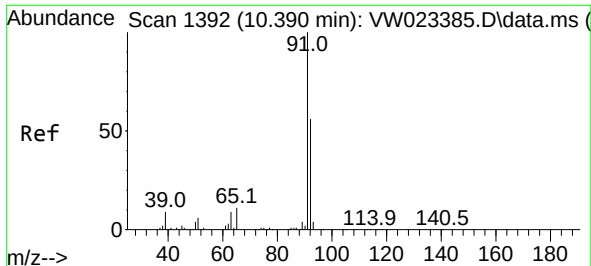


#34
Trichloroethene
Concen: 54.560 ug/L
RT: 9.092 min Scan# 1179
Delta R.T. 0.000 min
Lab File: VW023391.D
Acq: 03 Jun 2022 11:52

Tgt Ion: 95 Resp: 320957

Ion	Ratio	Lower	Upper
95	100		
97	64.2	46.1	85.7
132	97.6	66.9	124.3
130	90.4	69.5	129.1

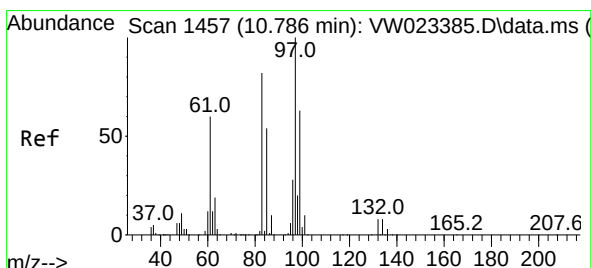
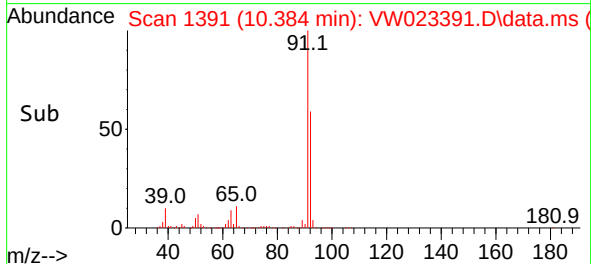
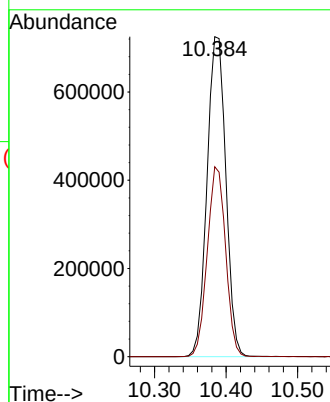
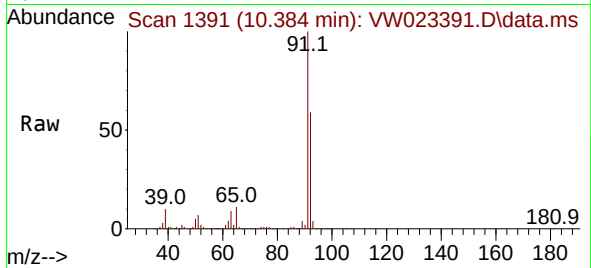




#42
Toluene
Concen: 54.848 ug/L
RT: 10.384 min Scan# 11
Delta R.T. -0.006 min
Lab File: VW023391.D
Acq: 03 Jun 2022 11:52

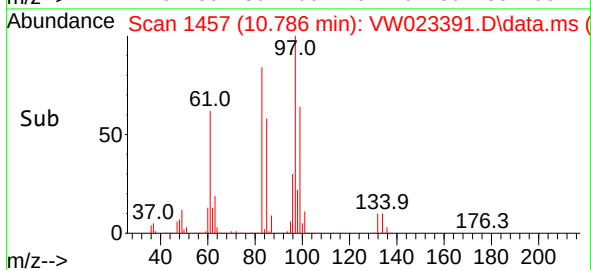
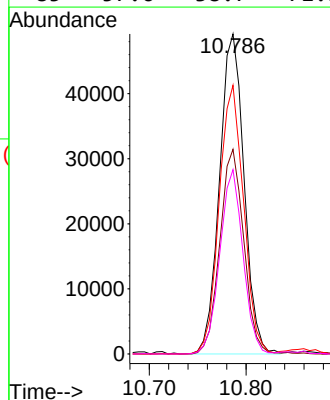
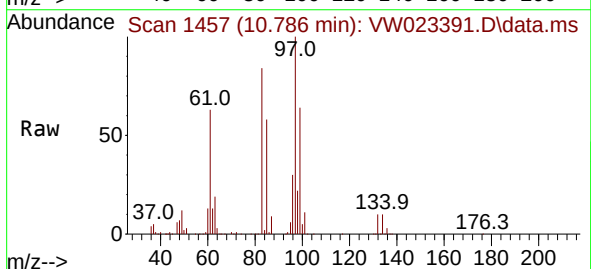
Instrument :
MSVOA_W
ClientSampleId :
DBTY5

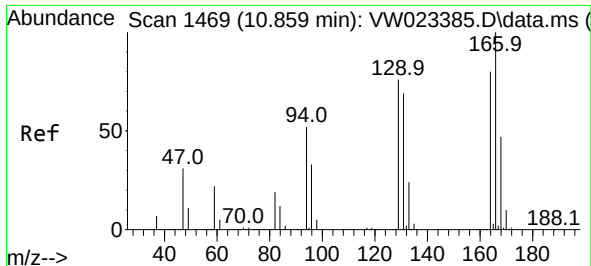
Tgt Ion: 91 Resp: 1323491
Ion Ratio Lower Upper
91 100
92 59.3 41.6 77.2



#45
1,1,2-Trichloroethane
Concen: 20.638 ug/L
RT: 10.786 min Scan# 1457
Delta R.T. 0.000 min
Lab File: VW023391.D
Acq: 03 Jun 2022 11:52

Tgt Ion: 97 Resp: 86463
Ion Ratio Lower Upper
97 100
99 64.0 44.7 82.9
83 84.0 58.4 108.4
85 57.6 38.7 71.9

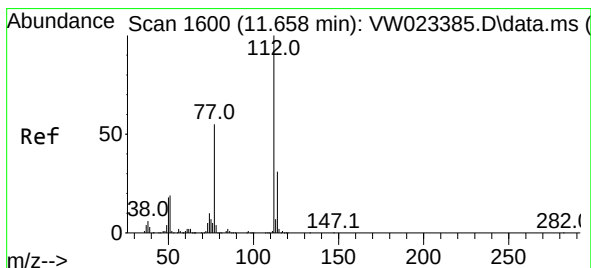
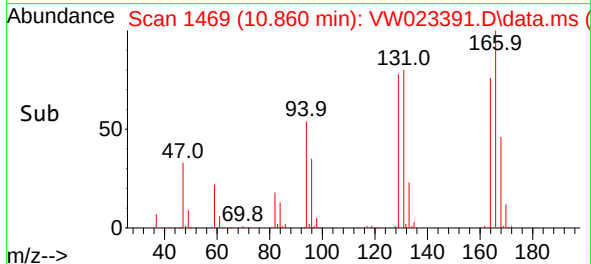
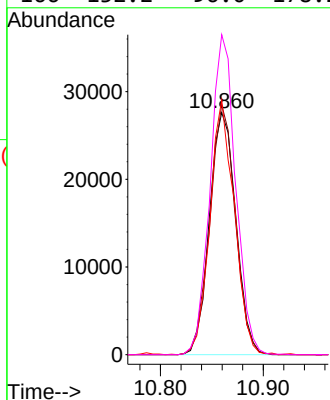
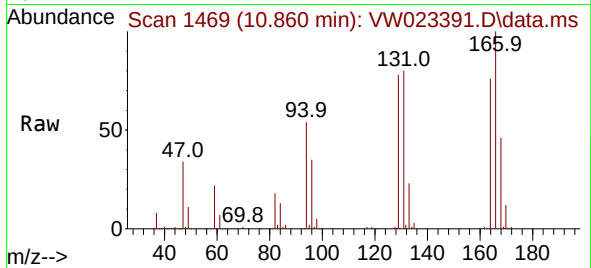




#46
Tetrachloroethene
Concen: 10.481 ug/L
RT: 10.860 min Scan# 1469
Delta R.T. 0.000 min
Lab File: VW023391.D
Acq: 03 Jun 2022 11:52

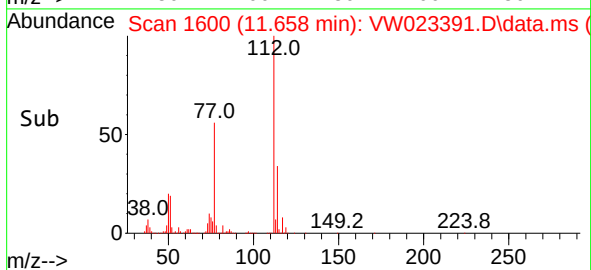
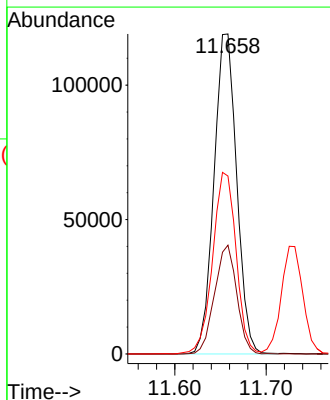
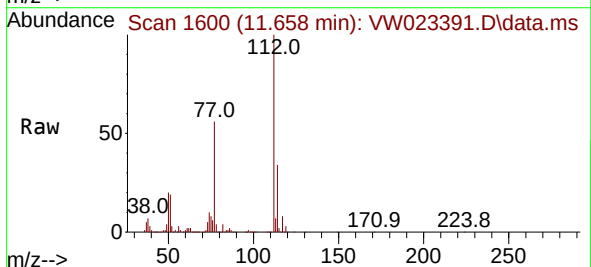
Instrument :
MSVOA_W
ClientSampleId :
DBTY5

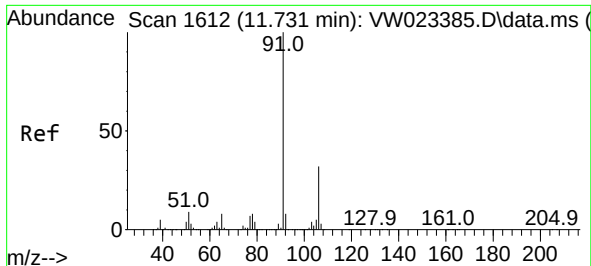
Tgt Ion:164 Resp: 49368
Ion Ratio Lower Upper
164 100
129 103.2 76.9 142.7
131 105.3 75.1 139.5
166 132.2 96.0 178.2



#51
Chlorobenzene
Concen: 12.932 ug/L
RT: 11.658 min Scan# 1600
Delta R.T. 0.000 min
Lab File: VW023391.D
Acq: 03 Jun 2022 11:52

Tgt Ion:112 Resp: 206041
Ion Ratio Lower Upper
112 100
114 34.0 22.0 41.0
77 55.6 42.6 63.8

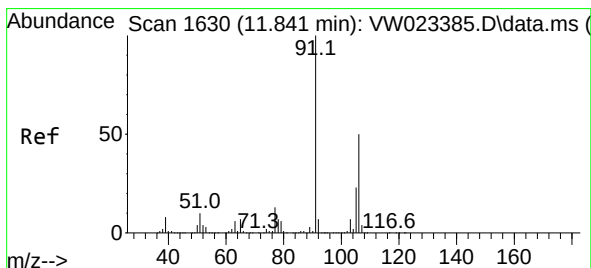
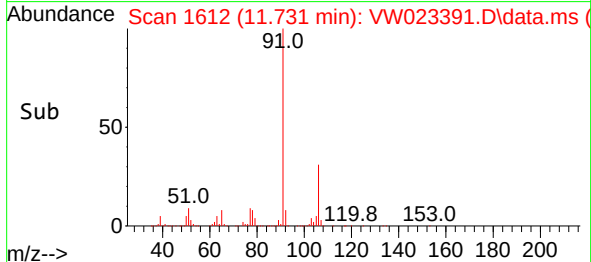
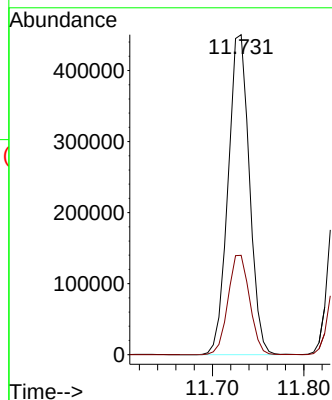
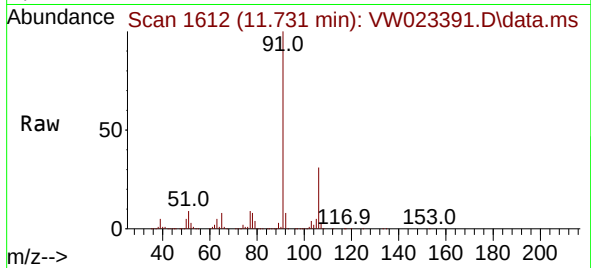




#52
Ethylbenzene
Concen: 27.557 ug/L
RT: 11.731 min Scan# 1612
Delta R.T. 0.000 min
Lab File: VW023391.D
Acq: 03 Jun 2022 11:52

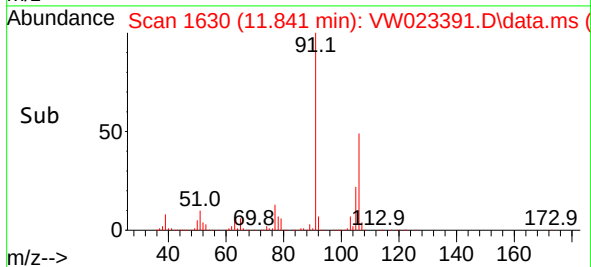
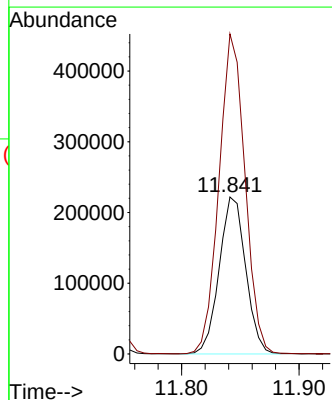
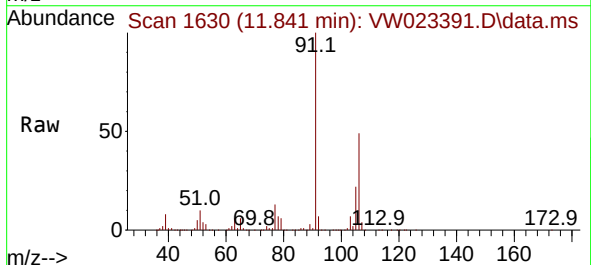
Instrument :
MSVOA_W
ClientSampleId :
DBTY5

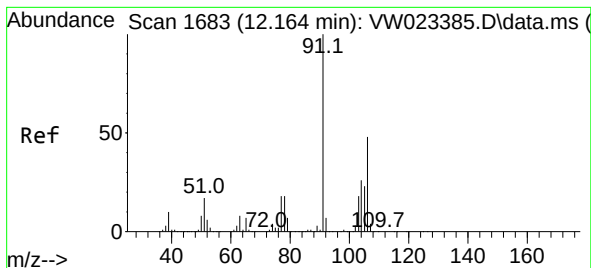
Tgt Ion: 91 Resp: 730208
Ion Ratio Lower Upper
91 100
106 31.1 22.3 41.3



#53
m,p-Xylene
Concen: 33.175 ug/L
RT: 11.841 min Scan# 1630
Delta R.T. 0.000 min
Lab File: VW023391.D
Acq: 03 Jun 2022 11:52

Tgt Ion: 106 Resp: 348120
Ion Ratio Lower Upper
106 100
91 203.9 136.8 254.0





#54

o-Xylene

Concen: 27.393 ug/L

RT: 12.164 min Scan# 1

Delta R.T. 0.000 min

Lab File: VW023391.D

Acq: 03 Jun 2022 11:52

Instrument :

MSVOA_W

ClientSampleId :

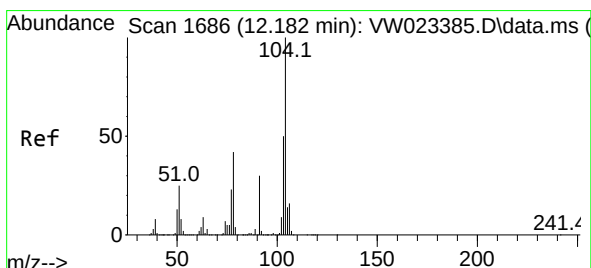
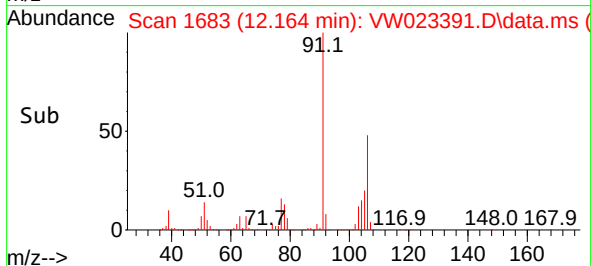
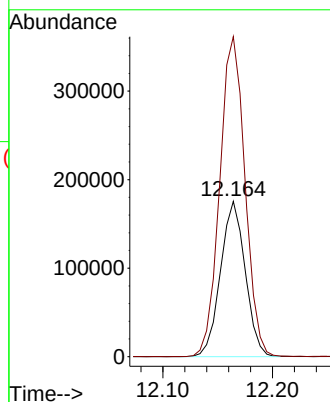
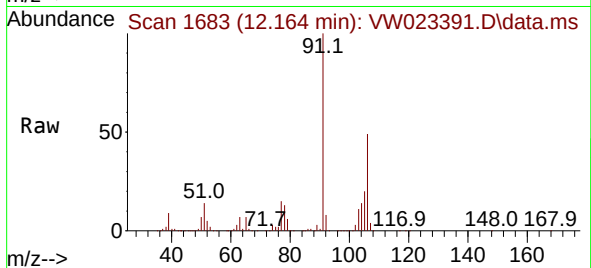
DBTY5

Tgt Ion:106 Resp: 275001

Ion Ratio Lower Upper

106 100

91 205.9 147.2 273.4



#55

Styrene

Concen: 11.001 ug/L

RT: 12.176 min Scan# 1685

Delta R.T. -0.006 min

Lab File: VW023391.D

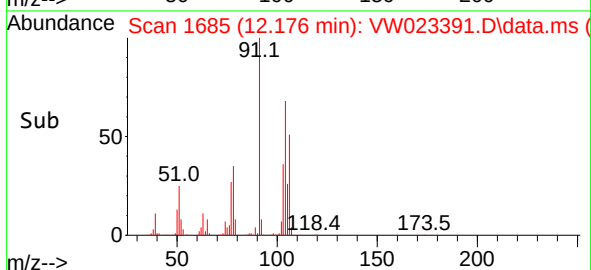
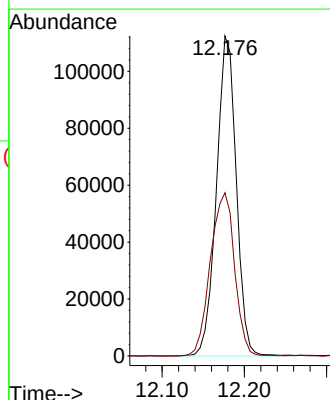
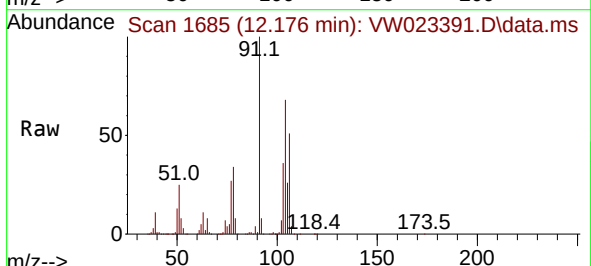
Acq: 03 Jun 2022 11:52

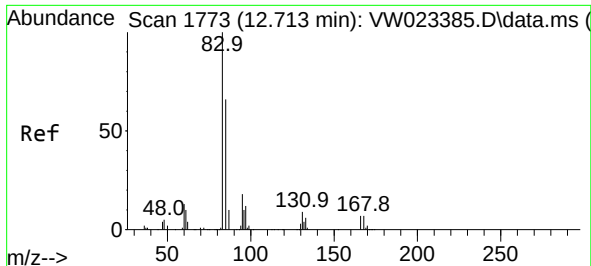
Tgt Ion:104 Resp: 188228

Ion Ratio Lower Upper

104 100

78 51.0 32.3 59.9

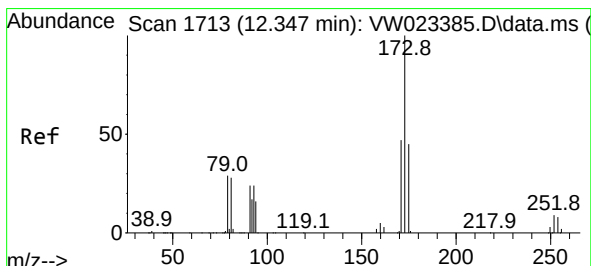
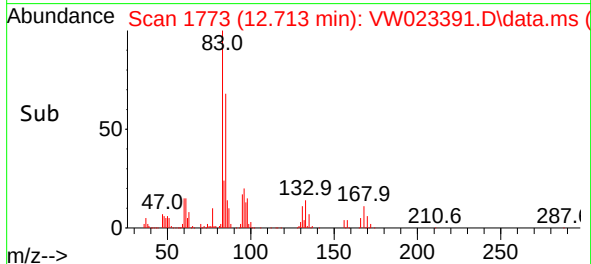
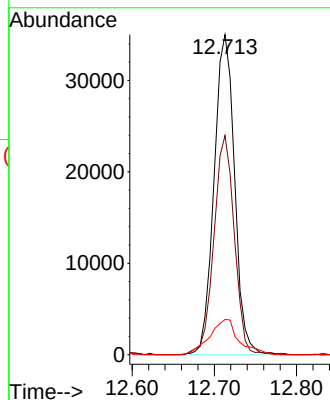
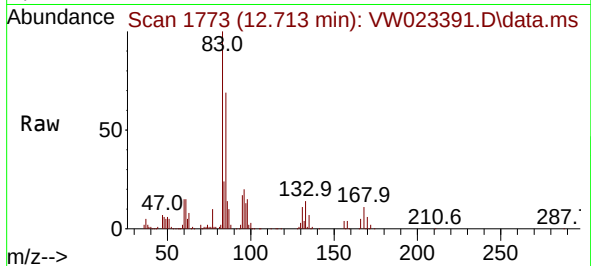




#57
1,1,2,2-Tetrachloroethane
Concen: 12.269 ug/L
RT: 12.713 min Scan# 1773
Delta R.T. 0.000 min
Lab File: VW023391.D
Acq: 03 Jun 2022 11:52

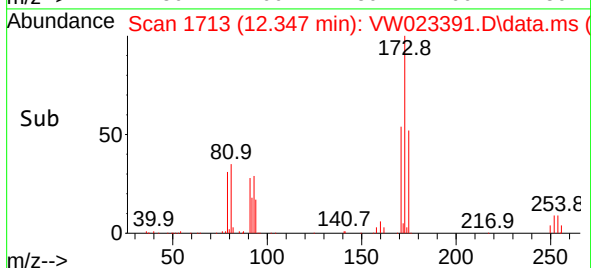
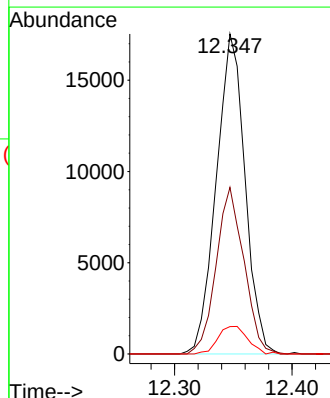
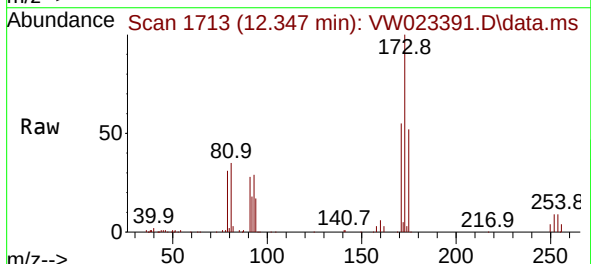
Instrument :
MSVOA_W
ClientSampleId :
DBTY5

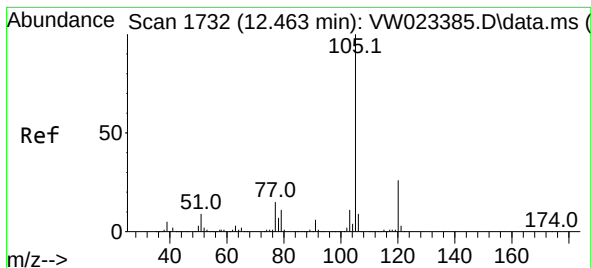
Tgt Ion: 83 Resp: 60713
Ion Ratio Lower Upper
83 100
85 68.5 47.5 88.1
131 11.0 8.7 13.1



#59
Bromoform
Concen: 9.985 ug/L
RT: 12.347 min Scan# 1713
Delta R.T. 0.000 min
Lab File: VW023391.D
Acq: 03 Jun 2022 11:52

Tgt Ion: 173 Resp: 29760
Ion Ratio Lower Upper
173 100
175 50.3 38.1 57.1
254 8.8 6.5 9.7

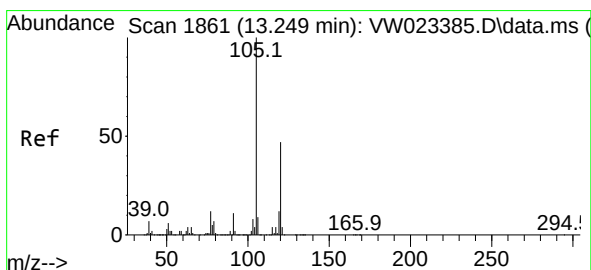
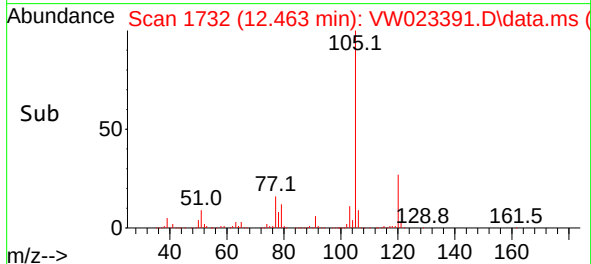
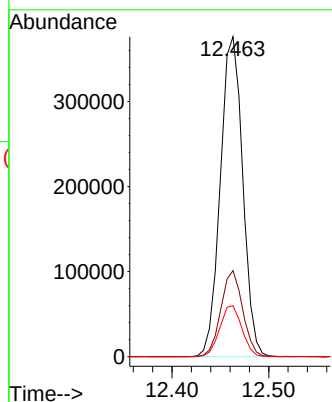
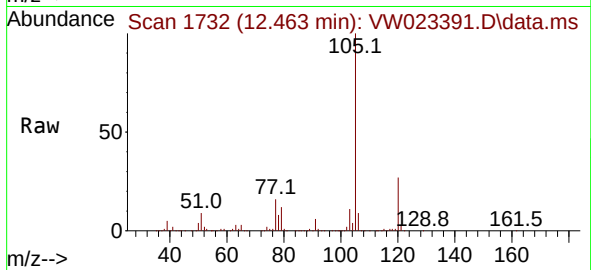




#60
Isopropylbenzene
Concen: 21.692 ug/L
RT: 12.463 min Scan# 11
Delta R.T. 0.000 min
Lab File: VW023391.D
Acq: 03 Jun 2022 11:52

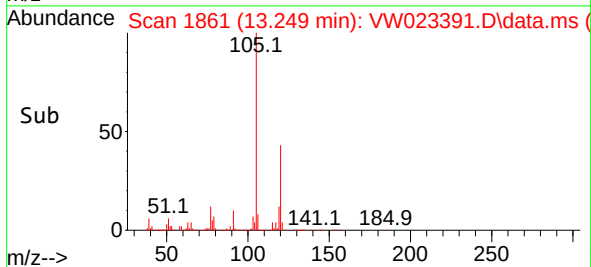
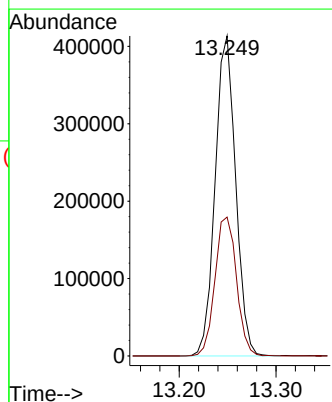
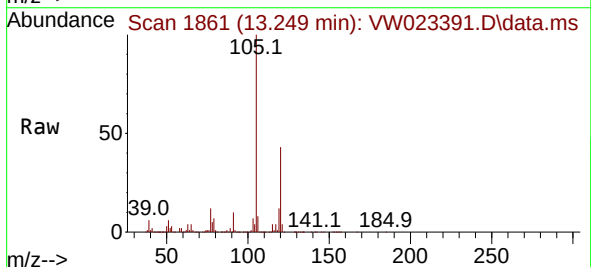
Instrument :
MSVOA_W
ClientSampleId :
DBTY5

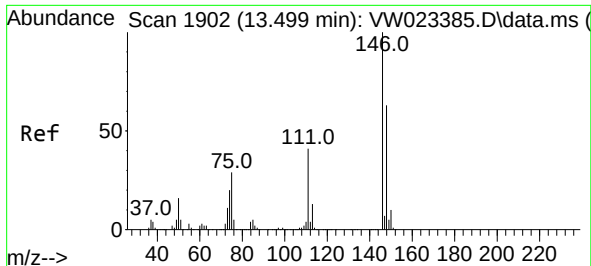
Tgt Ion:105 Resp: 603993
Ion Ratio Lower Upper
105 100
120 26.2 21.3 31.9
77 15.8 12.6 19.0



#63
1,2,4-Trimethylbenzene
Concen: 34.380 ug/L
RT: 13.249 min Scan# 1861
Delta R.T. 0.000 min
Lab File: VW023391.D
Acq: 03 Jun 2022 11:52

Tgt Ion:105 Resp: 608922
Ion Ratio Lower Upper
105 100
120 45.6 37.4 56.2

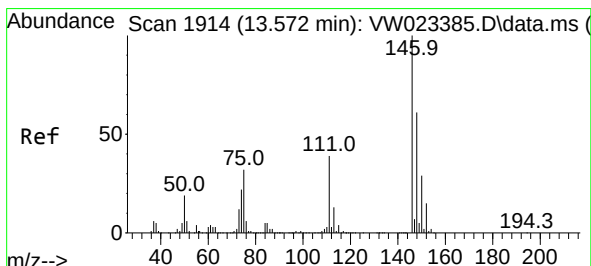
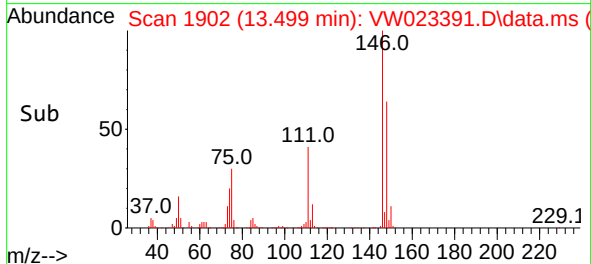
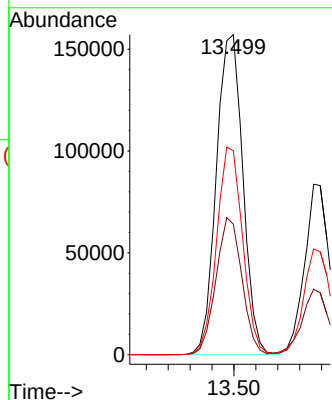
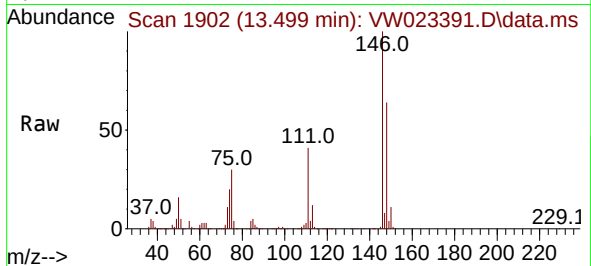




#64
1,3-Dichlorobenzene
Concen: 20.879 ug/L
RT: 13.499 min Scan# 1902
Delta R.T. 0.000 min
Lab File: VW023391.D
Acq: 03 Jun 2022 11:52

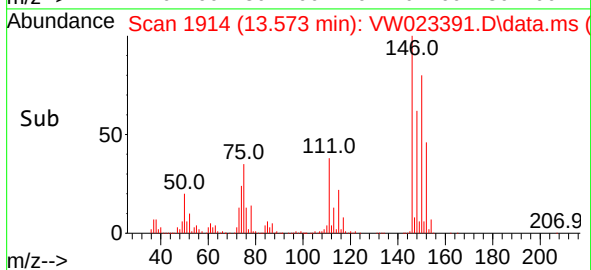
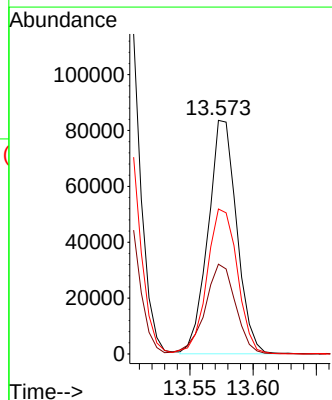
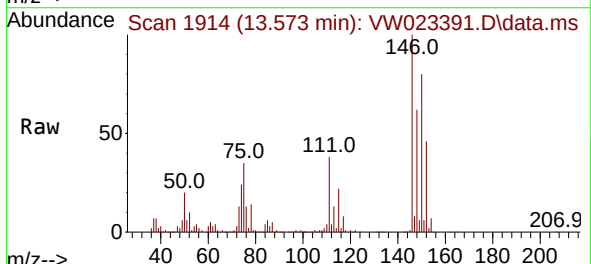
Instrument :
MSVOA_W
ClientSampleId :
DBTY5

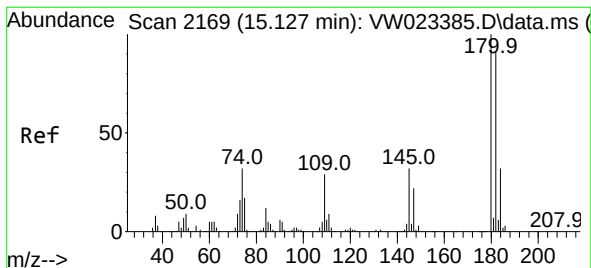
Tgt Ion:146 Resp: 264299
Ion Ratio Lower Upper
146 100
111 40.8 29.5 54.9
148 63.7 48.6 90.2



#65
1,4-Dichlorobenzene
Concen: 10.195 ug/L
RT: 13.573 min Scan# 1914
Delta R.T. 0.000 min
Lab File: VW023391.D
Acq: 03 Jun 2022 11:52

Tgt Ion:146 Resp: 131919
Ion Ratio Lower Upper
146 100
111 38.4 27.2 50.4
148 62.1 44.0 81.6





#70

1,2,4-trichlorobenzene

Concen: 19.987 ug/L

RT: 15.127 min Scan# 2169

Delta R.T. 0.000 min

Lab File: VW023391.D

Acq: 03 Jun 2022 11:52

Instrument :

MSVOA_W

ClientSampleId :

DBTY5

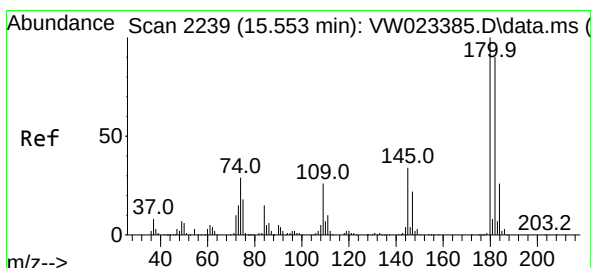
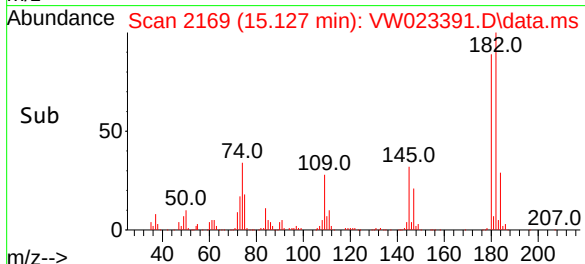
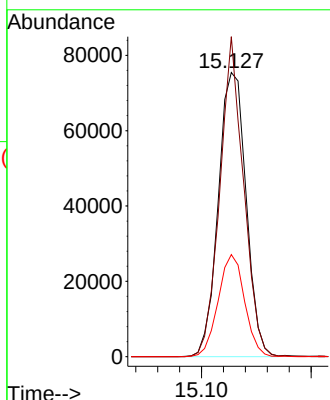
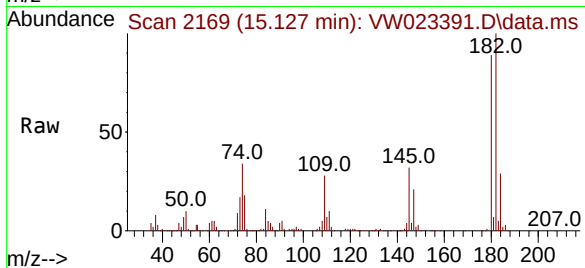
Tgt Ion:180 Resp: 132760

Ion Ratio Lower Upper

180 100

182 96.1 74.9 112.3

145 34.2 26.6 39.8



#72

1,2,3-Trichlorobenzene

Concen: 30.327 ug/L

RT: 15.554 min Scan# 2239

Delta R.T. 0.000 min

Lab File: VW023391.D

Acq: 03 Jun 2022 11:52

Tgt Ion:180 Resp: 174361

Ion Ratio Lower Upper

180 100

182 95.6 73.5 110.3

145 34.7 27.9 41.9

