

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW120121\
 Data File : VW021008.D
 Acq On : 01 Dec 2021 17:46
 Operator : SY/VA
 Sample : M4868-08
 Misc : 6.95g/10.0mL/MSVOA_W/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :

Quant Time: Dec 02 01:59:39 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM111521SMA.M
 Quant Title : SFAM01.0
 QLast Update : Thu Dec 02 01:54:41 2021
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	8.860	114	58995	25.000	ug/L	# 0.01
28) Chlorobenzene-d5	11.640	117	24306	25.000	ug/L	# 0.00
58) 1,4-Dichlorobenzene-d4	13.585	152	11321	25.000	ug/L	# 0.03
System Monitoring Compounds						
4) Vinyl Chloride-d3	2.349	65	24068	35.171	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	= 140.680%	
7) Chloroethane-d5	2.885	69	20973	47.521	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	= 190.080%#	
11) 1,1-Dichloroethene-d2	4.032	63	22967	17.346	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	= 69.400%	
21) 2-Butanone-d5	7.263	46	202	1.183	ug/L	0.18
Spiked Amount	50.000	Range	20 - 135	Recovery	= 2.360%#	
24) Chloroform-d	7.671	84	34321	23.089	ug/L	0.02
Spiked Amount	25.000	Range	40 - 150	Recovery	= 92.360%	
26) 1,2-Dichloroethane-d4	8.317	65	20037	26.556	ug/L	0.01
Spiked Amount	25.000	Range	70 - 130	Recovery	= 106.240%	
32) Benzene-d6	8.293	84	54858	42.823	ug/L	0.02
Spiked Amount	25.000	Range	20 - 135	Recovery	= 171.280%#	
36) 1,2-Dichloropropane-d6	9.220	67	85	0.233	ug/L	-0.05
Spiked Amount	25.000	Range	70 - 120	Recovery	= 0.920%#	
41) Toluene-d8	10.341	98	86364	67.924	ug/L	0.02
Spiked Amount	25.000	Range	30 - 130	Recovery	= 271.680%#	
43) trans-1,3-Dichloroprop...	10.524	79	9972	57.834	ug/L	-0.05
Spiked Amount	25.000	Range	30 - 135	Recovery	= 231.320%#	
47) 2-Hexanone-d5	10.829	63	89	1.471	ug/L	-0.09
Spiked Amount	50.000	Range	20 - 135	Recovery	= 2.940%#	
56) 1,1,2,2-Tetrachloroeth...	12.640	84	190898	683.120	ug/L	-0.05
Spiked Amount	25.000	Range	45 - 120	Recovery	= 2732.480%#	
66) 1,2-Dichlorobenzene-d4	13.871	152	29835	73.941	ug/L	0.02
Spiked Amount	25.000	Range	75 - 120	Recovery	= 295.760%#	
Target Compounds						
					Qvalue	
3) Chloromethane	2.331	50	2899	5.585	ug/L	# 72
5) Vinyl chloride	2.361	62	2302	2.564	ug/L	# 52
13) Acetone	4.129	43	4227	27.718	ug/L	53
19) 1,1-Dichloroethane	6.239	63	3890	2.947	ug/L	# 92
22) 2-Butanone	7.196	43	518	2.500	ug/L	80
29) Cyclohexane	7.970	56	133486	246.339	ug/L	96
33) Benzene	8.342	78	209993	152.589	ug/L	100
34) Trichloroethene	9.098	95	387	1.005	ug/L	# 1
35) Methylcyclohexane	9.354	83	833477	1313.295	ug/L	91
37) 1,2-Dichloropropane	9.360	63	11244	35.106	ug/L	# 1
38) Bromodichloromethane	9.634	83	7388	16.074	ug/L	# 1
40) 4-Methyl-2-pentanone	10.110	43	1564415	8206.366	ug/L	# 47
42) Toluene	10.402	91	1338623	864.764	ug/L	99
45) 1,1,2-Trichloroethane	10.774	97	1183034	4749.231	ug/L	# 21
46) Tetrachloroethene	10.872	164	848	2.399	ug/L	# 57
48) 2-Hexanone	10.951	43	2334228	17677.049	ug/L	# 43
49) Dibromochloromethane	11.256	129	300	0.874	ug/L	# 1
50) 1,2-Dibromoethane	11.250	107	818	3.275	ug/L	# 1
51) Chlorobenzene	11.786	112	3486	3.386	ug/L	# 1

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW120121\
 Data File : VW021008.D
 Acq On : 01 Dec 2021 17:46
 Operator : SY/VA
 Sample : M4868-08
 Misc : 6.95g/10.0mL/MSVOA_W/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :

Quant Time: Dec 02 01:59:39 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM111521SMA.M
 Quant Title : SFAM01.0
 QLast Update : Thu Dec 02 01:54:41 2021
 Response via : Initial Calibration

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

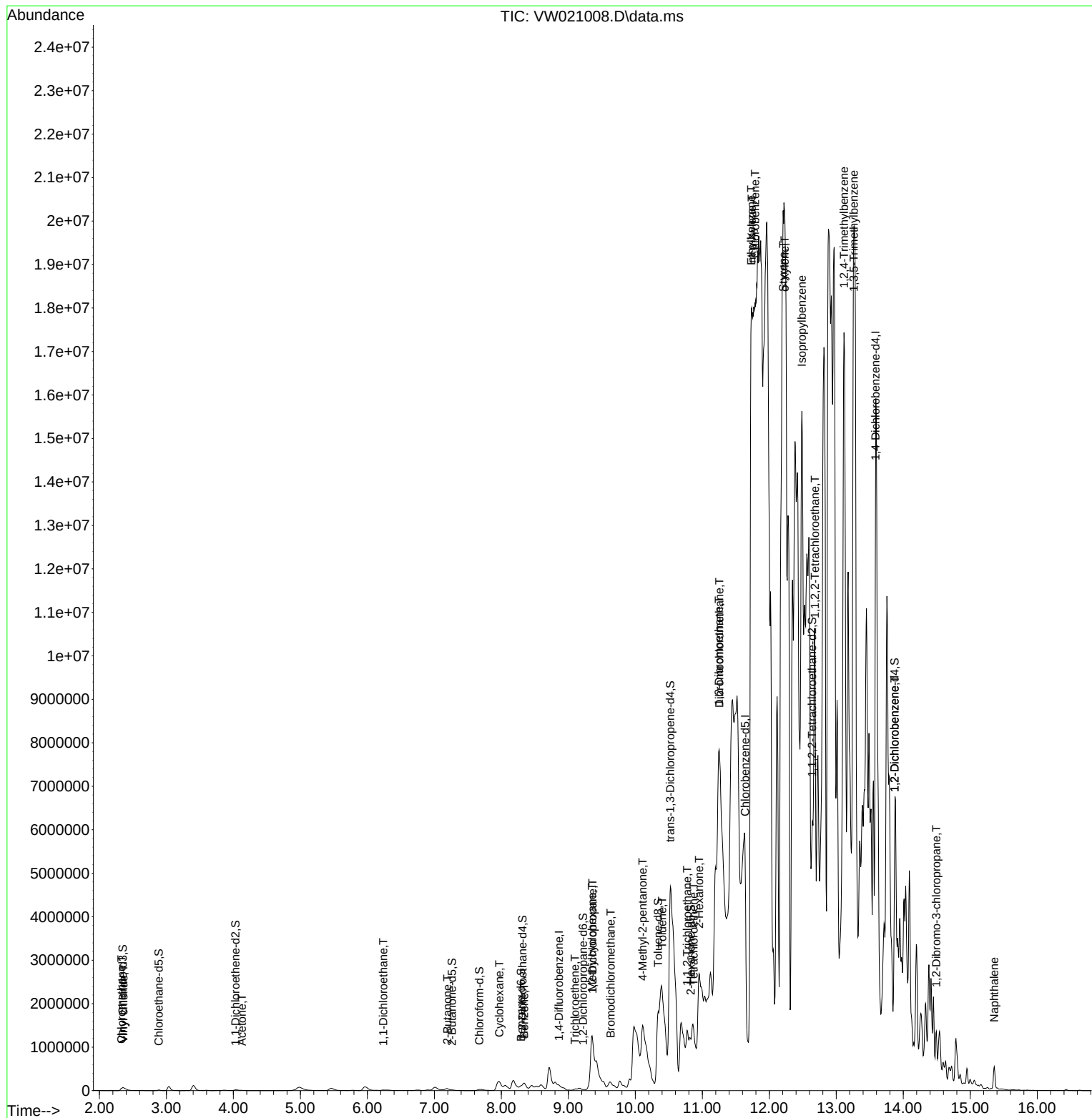
52) Ethylbenzene	11.731	91	14338709	8359.298	ug/L	84
53) m,p-Xylene	11.738	106	6632715	9471.184	ug/L	87
54) o-Xylene	12.231	106	13811941	20536.076	ug/L	80
55) Styrene	12.207	104	242792	217.403	ug/L #	1
57) 1,1,2,2-Tetrachloroethane	12.682	83	51638	187.031	ug/L #	43
60) Isopropylbenzene	12.487	105	7532307	4884.933	ug/L	93
62) 1,3,5-Trimethylbenzene	13.262	105	18795078	14449.261	ug/L	89
63) 1,2,4-Trimethylbenzene	13.115	105	11580646	9023.550	ug/L	88
67) 1,2-Dichlorobenzene	13.871	146	1213	1.904	ug/L #	1
68) 1,2-Dibromo-3-chloropr...	14.493	75	1505	37.909	ug/L #	23
71) Naphthalene	15.359	128	482780	632.508	ug/L	99

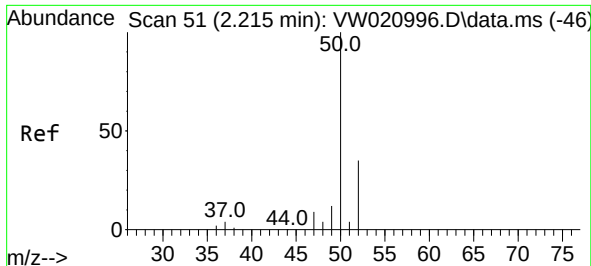
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW120121\
Data File : VW021008.D
Acq On : 01 Dec 2021 17:46
Operator : SY/VA
Sample : M4868-08
Misc : 6.95g/10.0mL/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :

Quant Time: Dec 02 01:59:39 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM111521SMA.M
Quant Title : SFAM01.0
QLast Update : Thu Dec 02 01:54:41 2021
Response via : Initial Calibration

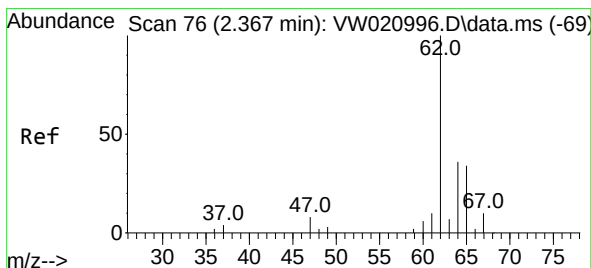
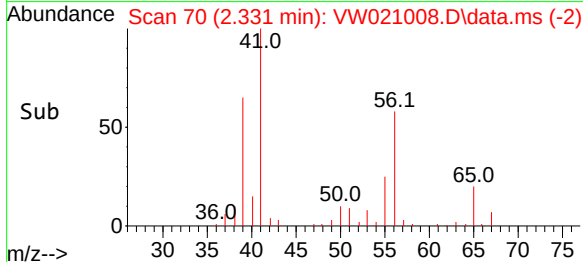
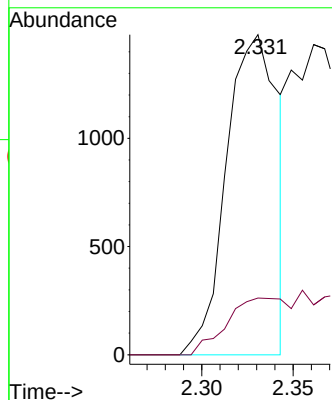
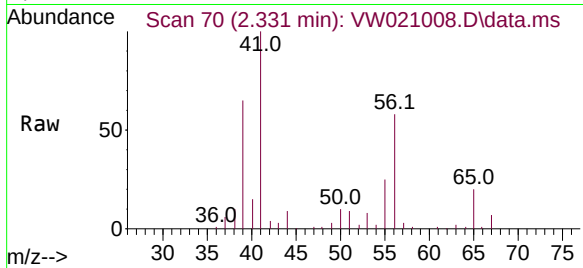




#3
Chloromethane
Concen: 5.585 ug/L
RT: 2.331 min Scan# 70
Delta R.T. 0.116 min
Lab File: VW021008.D
Acq: 01 Dec 2021 17:46

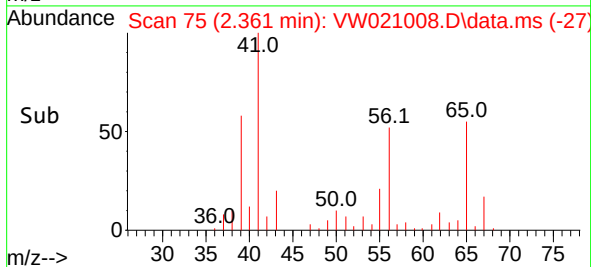
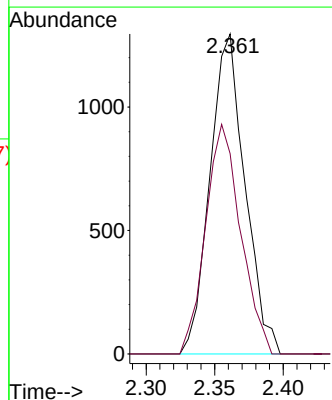
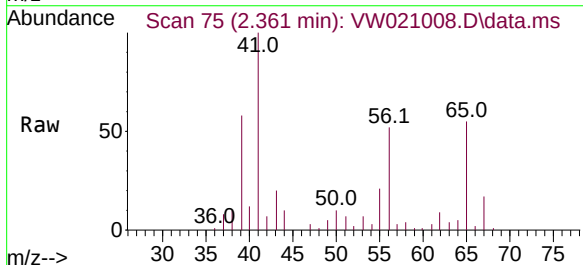
Instrument :
MSVOA_W
ClientSampleId :

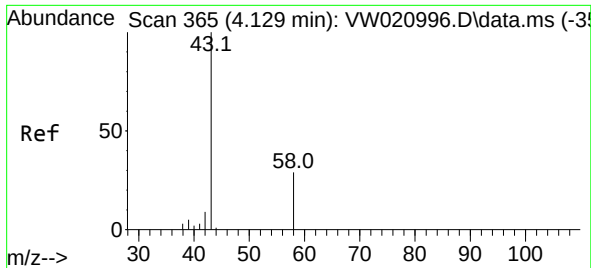
Tgt Ion: 50 Resp: 2899
Ion Ratio Lower Upper
50 100
52 17.7 23.4 43.6#



#5
Vinyl chloride
Concen: 2.564 ug/L
RT: 2.361 min Scan# 75
Delta R.T. -0.006 min
Lab File: VW021008.D
Acq: 01 Dec 2021 17:46

Tgt Ion: 62 Resp: 2302
Ion Ratio Lower Upper
62 100
64 62.6 24.4 45.2#

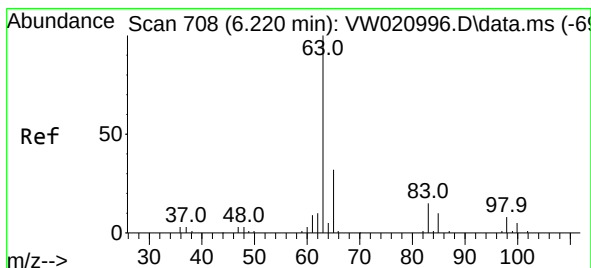
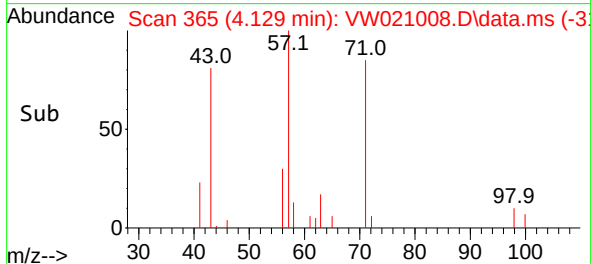
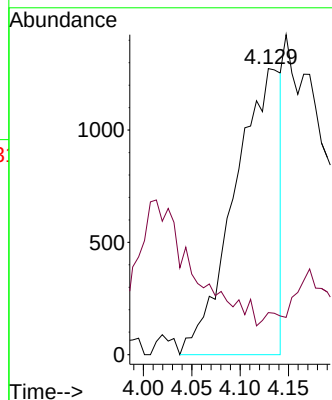
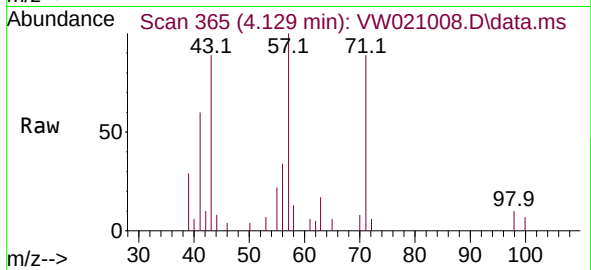




#13
Acetone
Concen: 27.718 ug/L
RT: 4.129 min Scan# 301
Delta R.T. 0.000 min
Lab File: VW021008.D
Acq: 01 Dec 2021 17:46

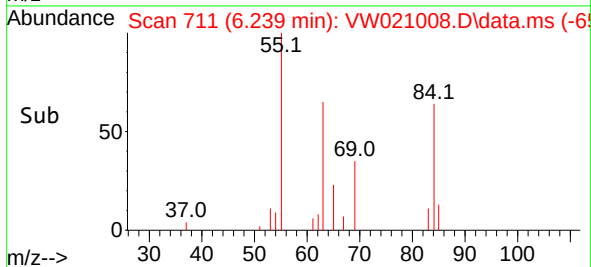
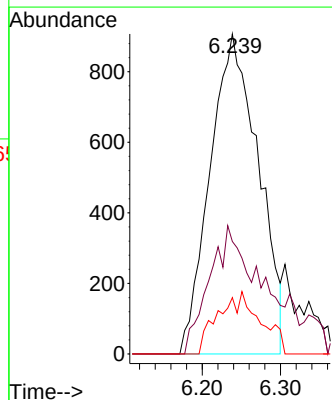
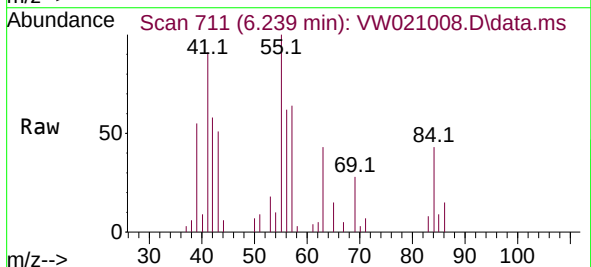
Instrument :
MSVOA_W
ClientSampleId :

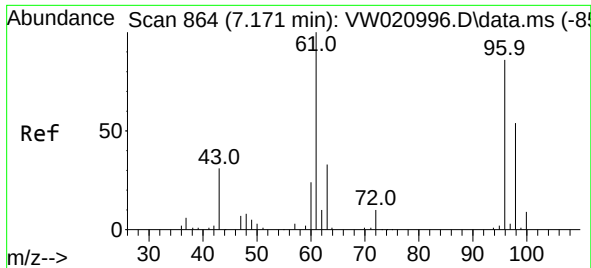
Tgt Ion: 43 Resp: 4227
Ion Ratio Lower Upper
43 100
58 2.1 0.0 52.8



#19
1,1-Dichloroethane
Concen: 2.947 ug/L
RT: 6.239 min Scan# 711
Delta R.T. 0.019 min
Lab File: VW021008.D
Acq: 01 Dec 2021 17:46

Tgt Ion: 63 Resp: 3890
Ion Ratio Lower Upper
63 100
65 35.2 22.1 41.1
83 17.6 9.2 17.2#

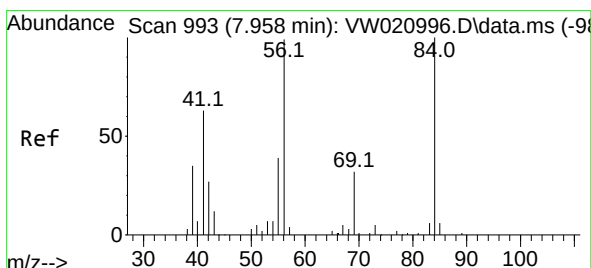
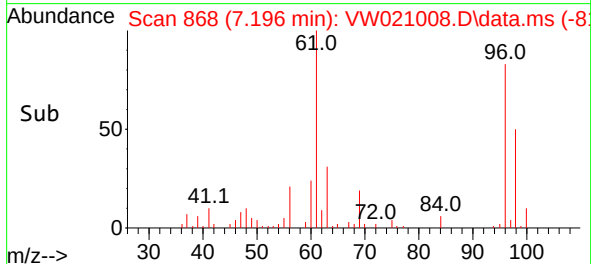
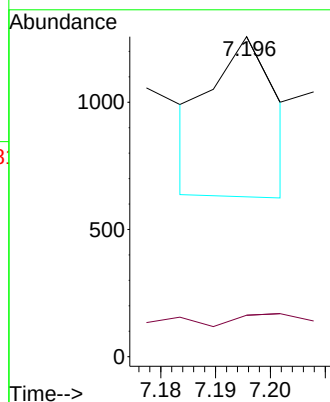
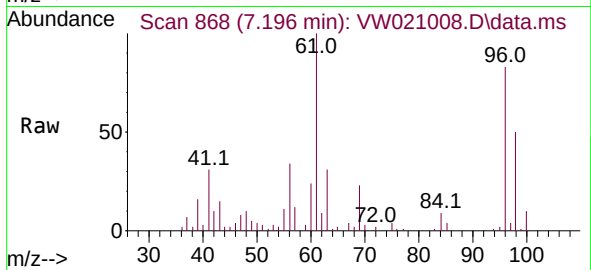




#22
2-Butanone
Concen: 2.500 ug/L
RT: 7.196 min Scan# 864
Delta R.T. 0.025 min
Lab File: VW021008.D
Acq: 01 Dec 2021 17:46

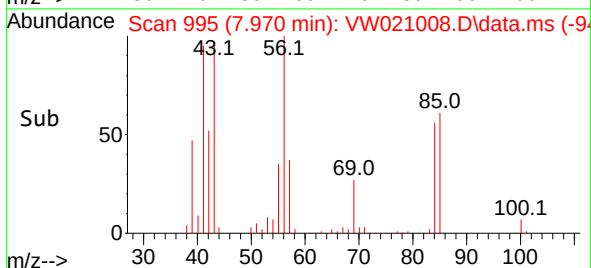
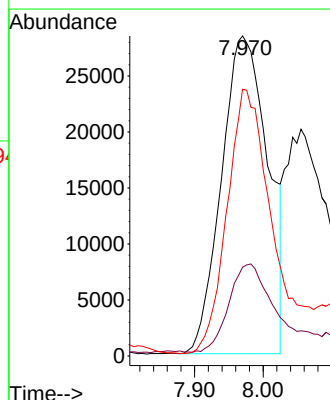
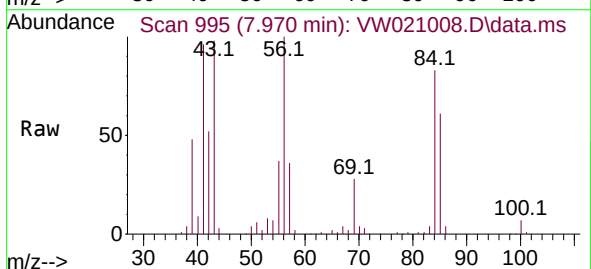
Instrument :
MSVOA_W
ClientSampleId :

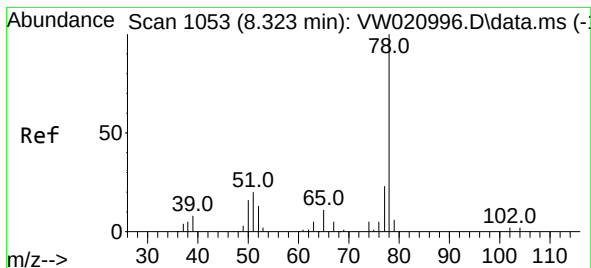
Tgt Ion: 43 Resp: 518
Ion Ratio Lower Upper
43 100
72 13.9 11.8 35.4



#29
Cyclohexane
Concen: 246.339 ug/L
RT: 7.970 min Scan# 995
Delta R.T. 0.012 min
Lab File: VW021008.D
Acq: 01 Dec 2021 17:46

Tgt Ion: 56 Resp: 133486
Ion Ratio Lower Upper
56 100
69 26.2 23.5 35.3
84 81.6 63.4 95.2





#33

Benzene

Concen: 152.589 ug/L

RT: 8.342 min Scan# 1180

Delta R.T. 0.018 min

Lab File: VW021008.D

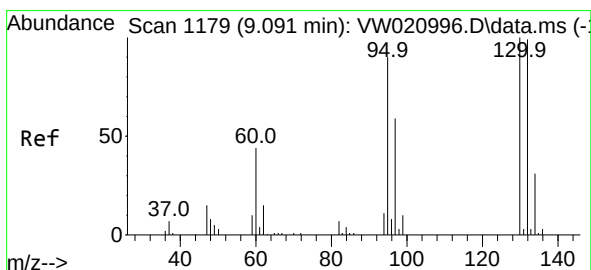
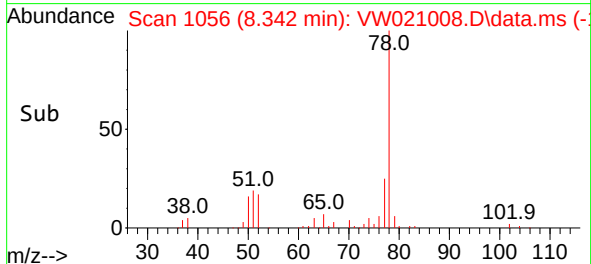
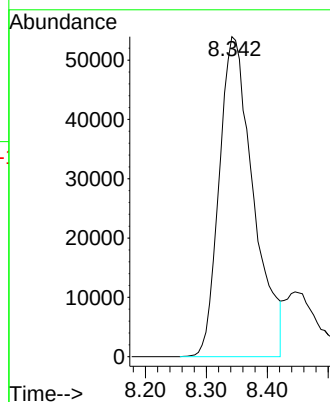
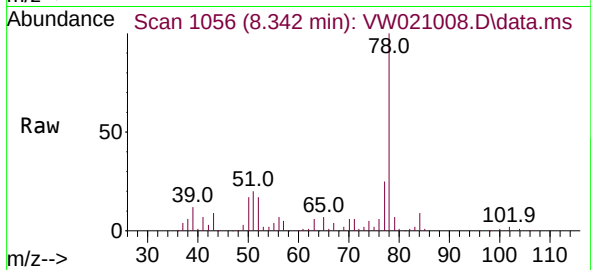
Acq: 01 Dec 2021 17:46

Instrument :

MSVOA_W

ClientSampleId :

Tgt Ion: 78 Resp: 209993



#34

Trichloroethene

Concen: 1.005 ug/L

RT: 9.098 min Scan# 1180

Delta R.T. 0.006 min

Lab File: VW021008.D

Acq: 01 Dec 2021 17:46

Tgt Ion: 95 Resp: 387

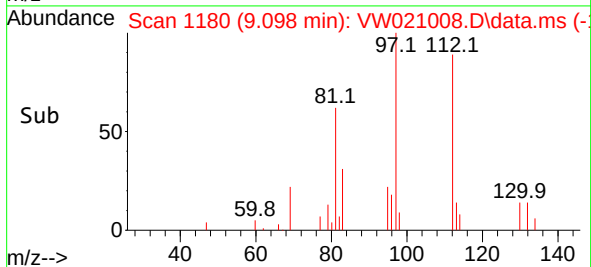
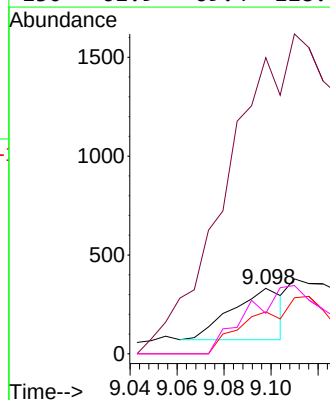
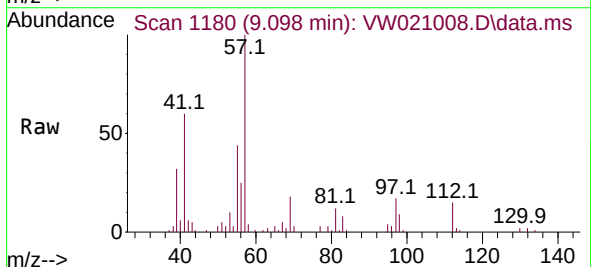
Ion Ratio Lower Upper

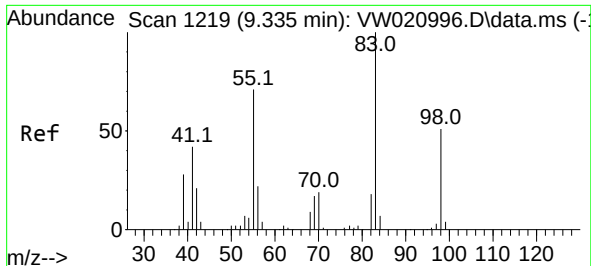
95 100

97 452.6 47.0 87.2#

132 64.0 65.5 121.6#

130 61.9 69.4 128.8#

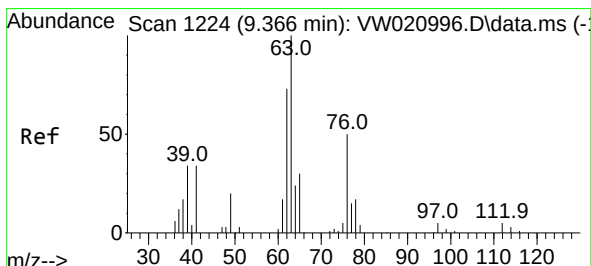
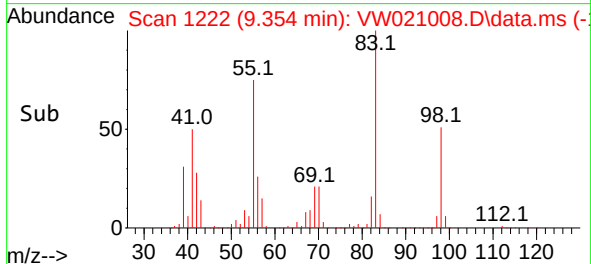
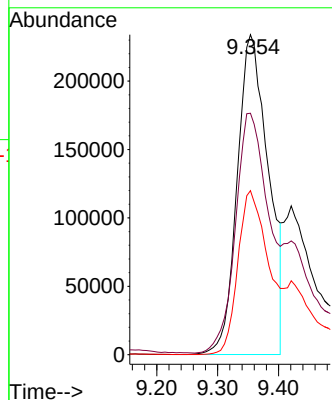
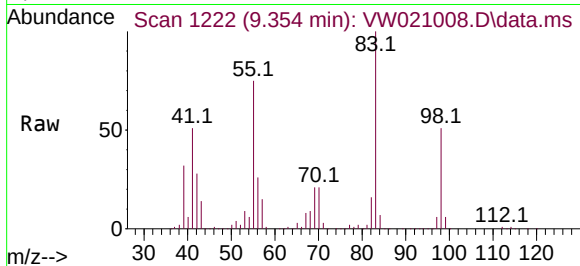




#35
Methylcyclohexane
Concen: 1313.295 ug/L
RT: 9.354 min Scan# 11
Delta R.T. 0.018 min
Lab File: VW021008.D
Acq: 01 Dec 2021 17:46

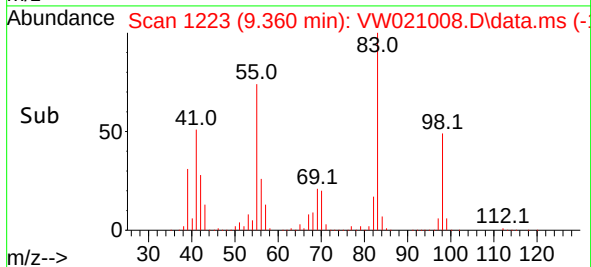
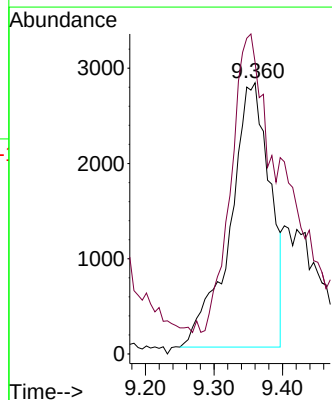
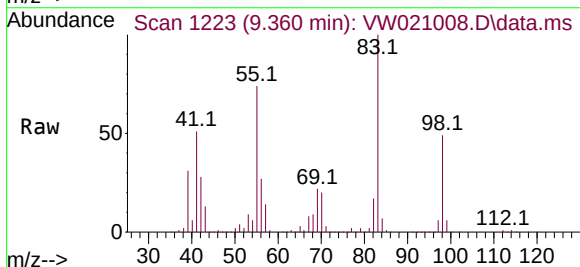
Instrument :
MSVOA_W
ClientSampleId :

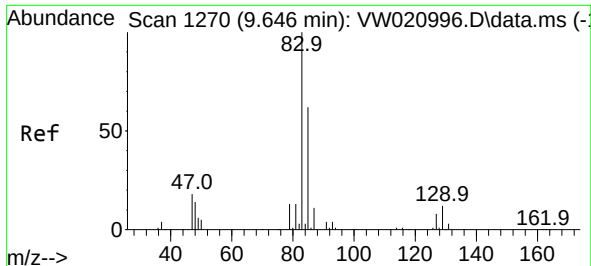
Tgt Ion: 83 Resp: 833477
Ion Ratio Lower Upper
83 100
55 79.6 70.8 106.2
98 51.8 37.7 56.5



#37
1,2-Dichloropropane
Concen: 35.106 ug/L
RT: 9.360 min Scan# 1223
Delta R.T. -0.006 min
Lab File: VW021008.D
Acq: 01 Dec 2021 17:46

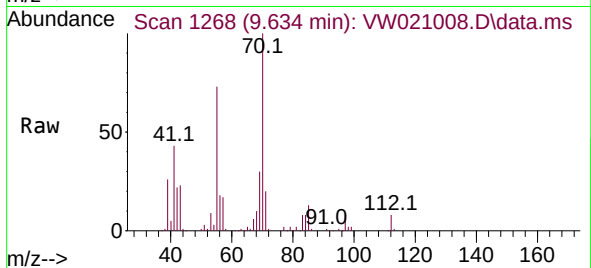
Tgt Ion: 63 Resp: 11244
Ion Ratio Lower Upper
63 100
112 101.6 3.2 4.8#



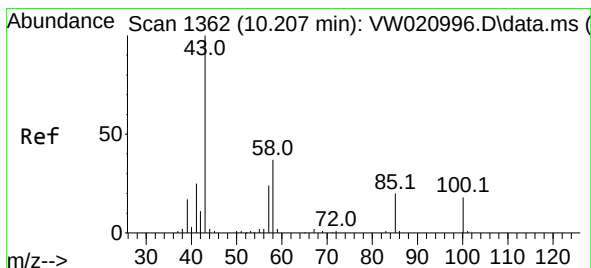
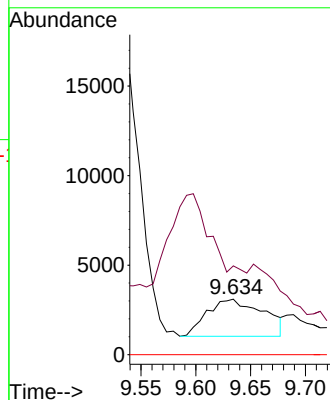
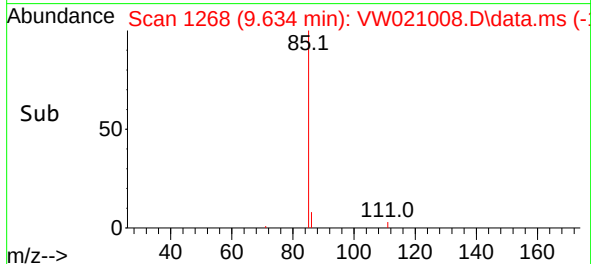


#38
Bromodichloromethane
Concen: 16.074 ug/L
RT: 9.634 min Scan# 11
Delta R.T. -0.012 min
Lab File: VW021008.D
Acq: 01 Dec 2021 17:46

Instrument :
MSVOA_W
ClientSampleId :

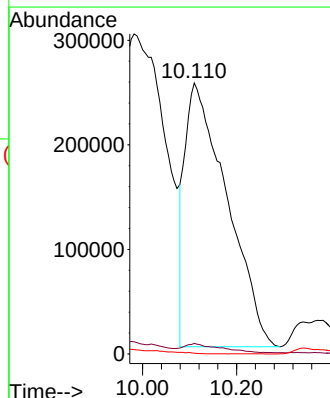
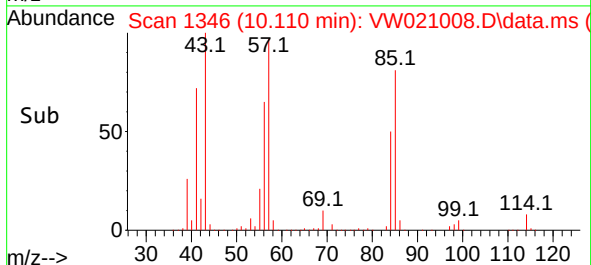
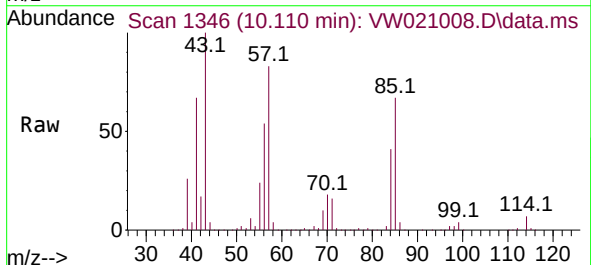


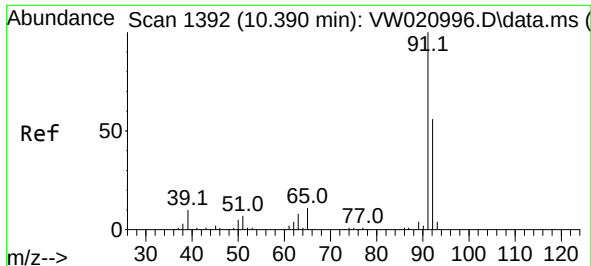
Tgt Ion: 83 Resp: 7388
Ion Ratio Lower Upper
83 100
85 159.9 44.1 81.9#
127 0.0 6.1 9.1#



#40
4-Methyl-2-pentanone
Concen: 8206.366 ug/L
RT: 10.110 min Scan# 1346
Delta R.T. -0.097 min
Lab File: VW021008.D
Acq: 01 Dec 2021 17:46

Tgt Ion: 43 Resp: 1564415
Ion Ratio Lower Upper
43 100
58 0.8 28.8 43.2#
100 0.0 10.0 15.0#

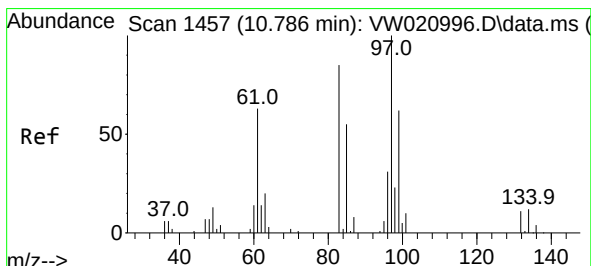
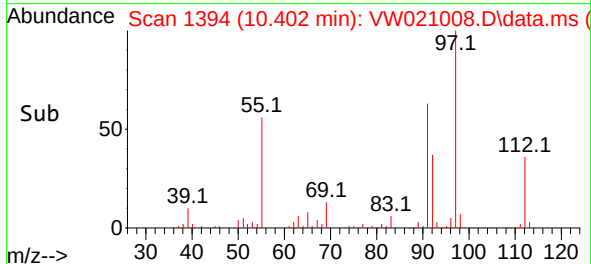
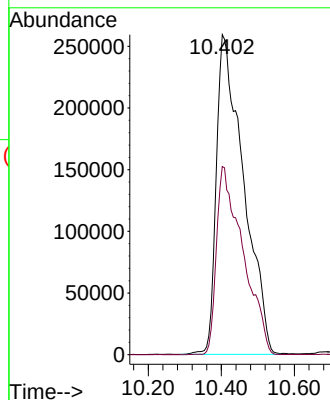
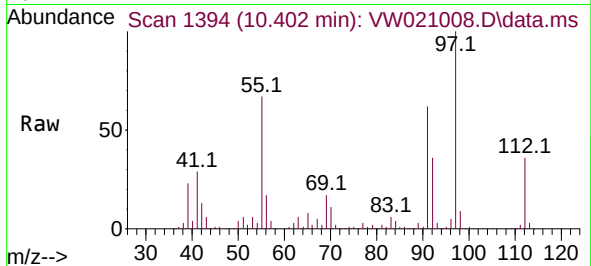




#42
Toluene
Concen: 864.764 ug/L
RT: 10.402 min Scan# 11
Delta R.T. 0.012 min
Lab File: VW021008.D
Acq: 01 Dec 2021 17:46

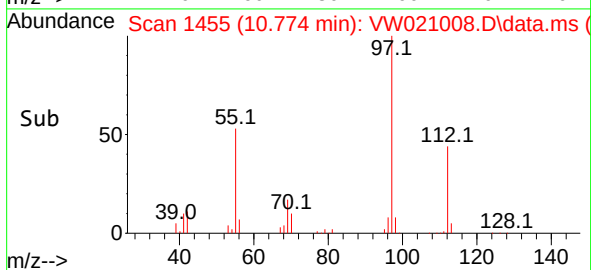
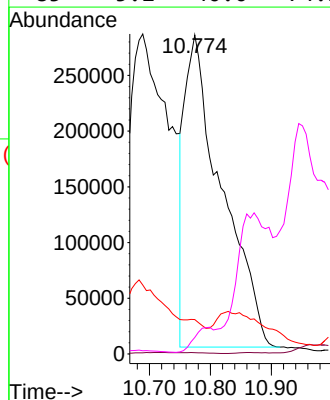
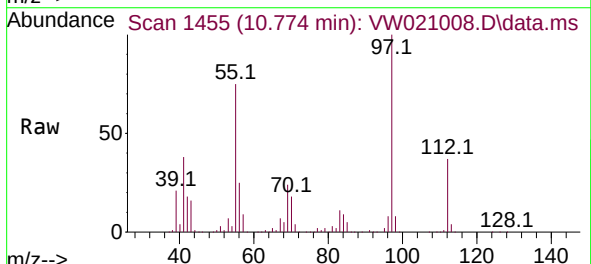
Instrument :
MSVOA_W
ClientSampleId :

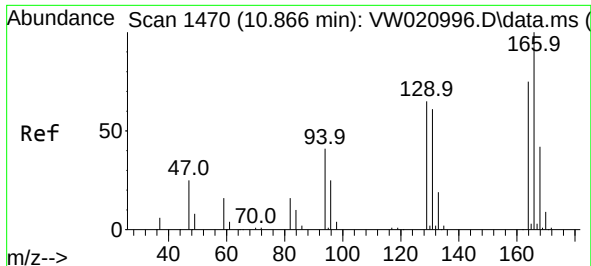
Tgt Ion: 91 Resp: 1338623
Ion Ratio Lower Upper
91 100
92 58.8 41.7 77.5



#45
1,1,2-Trichloroethane
Concen: 4749.231 ug/L
RT: 10.774 min Scan# 1455
Delta R.T. -0.012 min
Lab File: VW021008.D
Acq: 01 Dec 2021 17:46

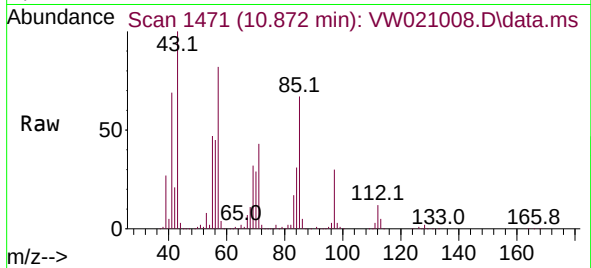
Tgt Ion: 97 Resp: 1183034
Ion Ratio Lower Upper
97 100
99 0.4 43.0 79.8#
83 10.8 62.6 116.3#
85 5.2 40.0 74.2#



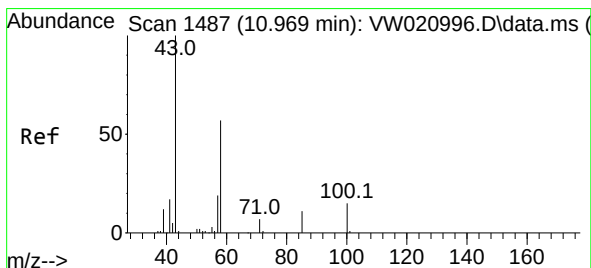
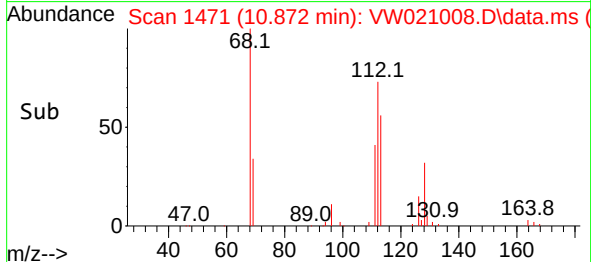
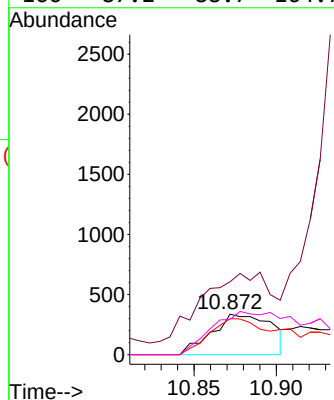


#46
Tetrachloroethene
Concen: 2.399 ug/L
RT: 10.872 min Scan# 1471
Delta R.T. 0.006 min
Lab File: VW021008.D
Acq: 01 Dec 2021 17:46

Instrument :
MSVOA_W
ClientSampleId :

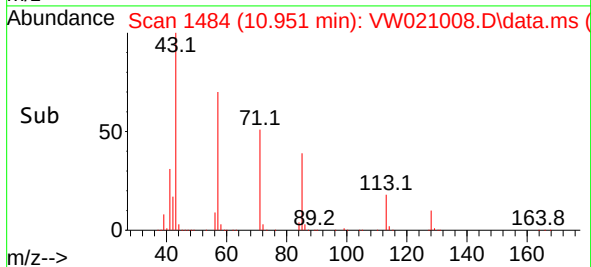
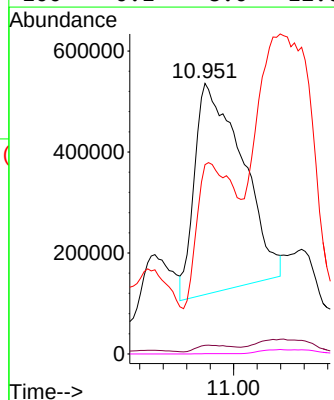
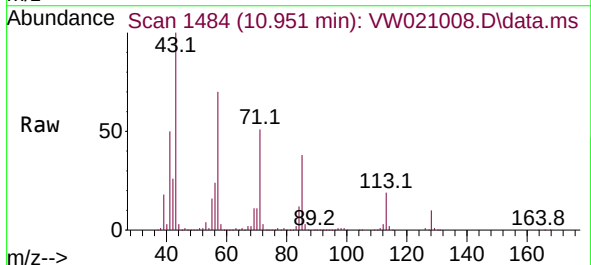


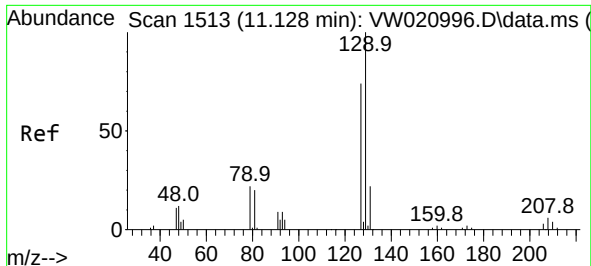
Tgt Ion:164 Resp: 848
Ion Ratio Lower Upper
164 100
129 180.1 65.5 121.7#
131 89.0 59.7 110.9
166 87.2 88.7 164.7#



#48
2-Hexanone
Concen: 17677.049 ug/L
RT: 10.951 min Scan# 1484
Delta R.T. -0.018 min
Lab File: VW021008.D
Acq: 01 Dec 2021 17:46

Tgt Ion: 43 Resp: 2334228
Ion Ratio Lower Upper
43 100
58 2.5 40.2 60.2#
57 36.0 14.3 21.5#
100 0.1 8.0 12.0#

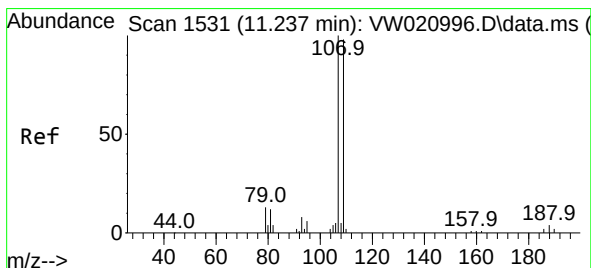
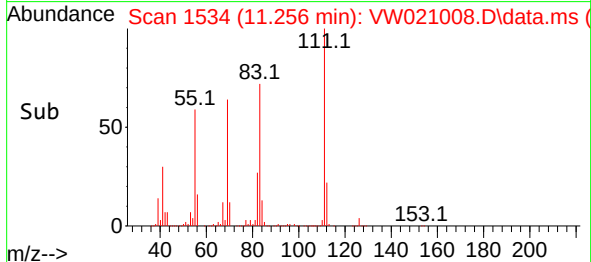
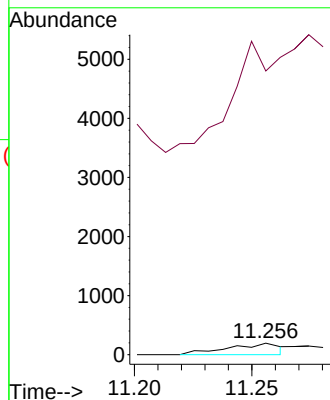
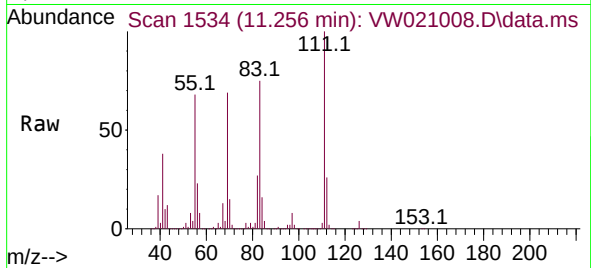




#49
Dibromochloromethane
Concen: 0.874 ug/L
RT: 11.256 min Scan# 11
Delta R.T. 0.128 min
Lab File: VW021008.D
Acq: 01 Dec 2021 17:46

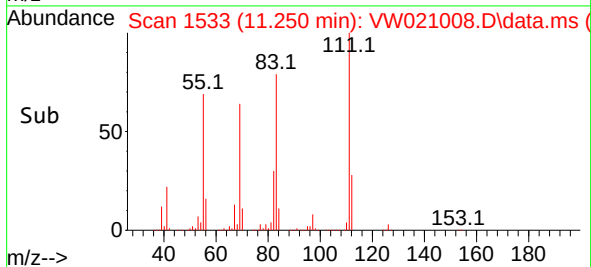
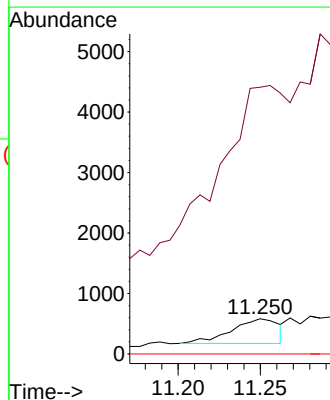
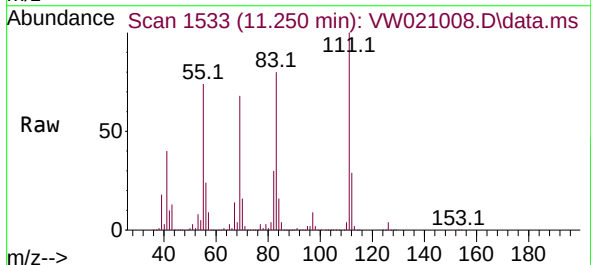
Instrument :
MSVOA_W
ClientSampleId :

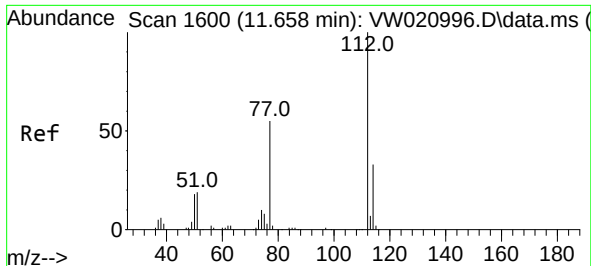
Tgt Ion:129 Resp: 300
Ion Ratio Lower Upper
129 100
127 2475.8 55.7 103.5#



#50
1,2-Dibromoethane
Concen: 3.275 ug/L
RT: 11.250 min Scan# 1533
Delta R.T. 0.012 min
Lab File: VW021008.D
Acq: 01 Dec 2021 17:46

Tgt Ion:107 Resp: 818
Ion Ratio Lower Upper
107 100
109 756.8 64.1 119.1#
188 0.0 2.6 3.8#

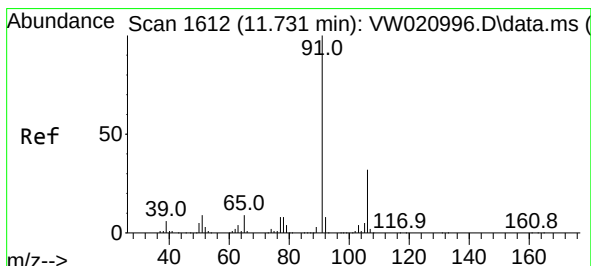
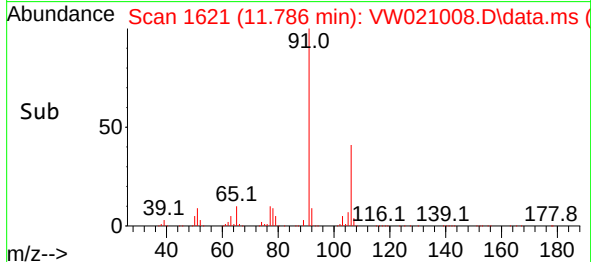
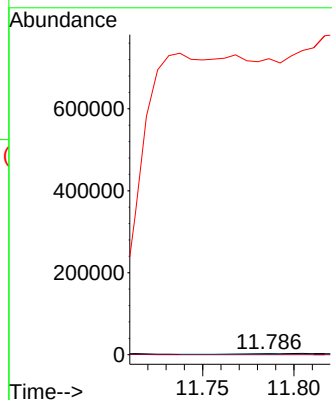
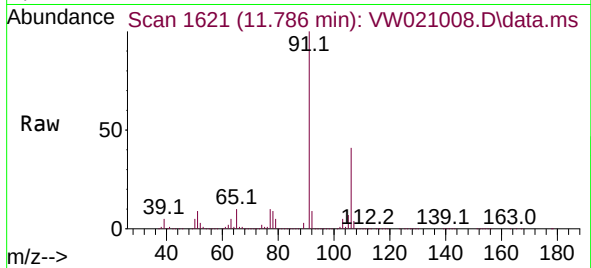




#51
Chlorobenzene
Concen: 3.386 ug/L
RT: 11.786 min Scan# 1621
Delta R.T. 0.128 min
Lab File: VW021008.D
Acq: 01 Dec 2021 17:46

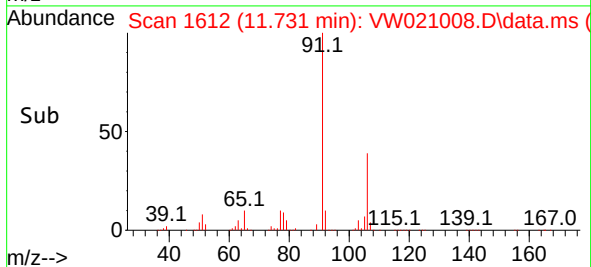
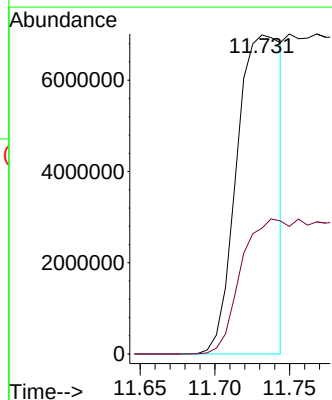
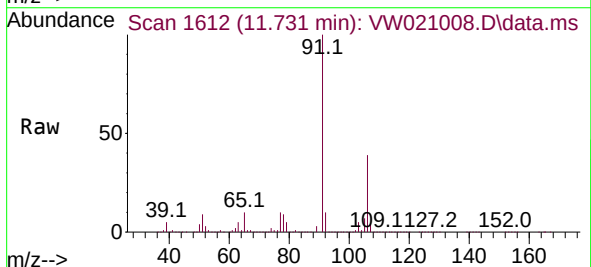
Instrument :
MSVOA_W
ClientSampleId :

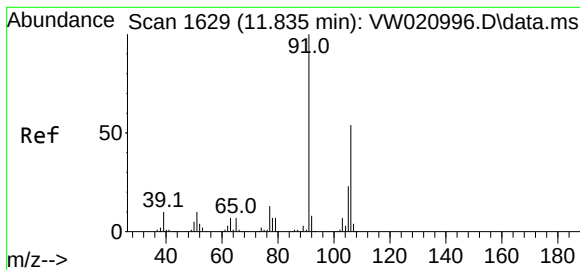
Tgt Ion:112 Resp: 3486
Ion Ratio Lower Upper
112 100
114 0.0 22.4 41.6#
77 26794.1 50.2 75.4#



#52
Ethylbenzene
Concen: 8359.298 ug/L
RT: 11.731 min Scan# 1612
Delta R.T. 0.000 min
Lab File: VW021008.D
Acq: 01 Dec 2021 17:46

Tgt Ion: 91 Resp:14338709
Ion Ratio Lower Upper
91 100
106 39.4 21.5 39.9

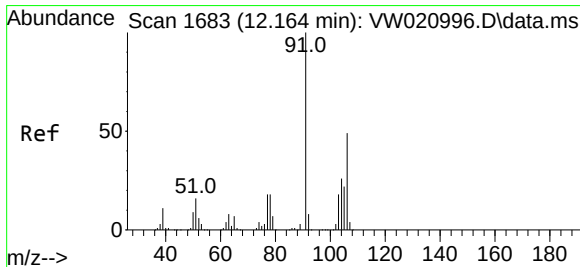
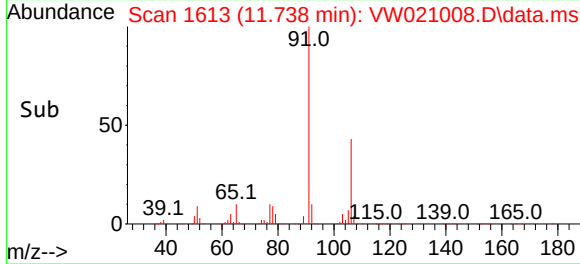
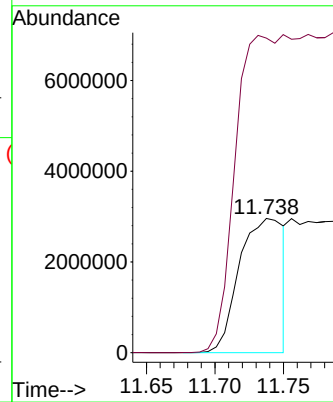
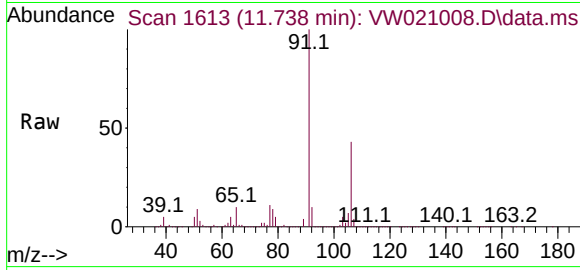




#53
m,p-Xylene
Concen: 9471.184 ug/L
RT: 11.738 min Scan# 1
Delta R.T. -0.097 min
Lab File: VW021008.D
Acq: 01 Dec 2021 17:46

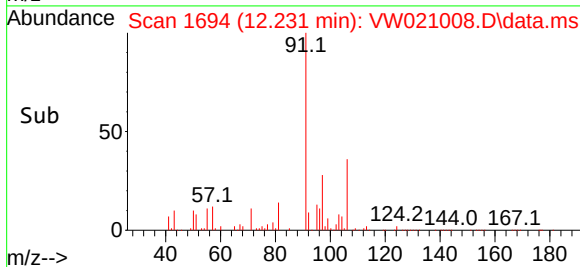
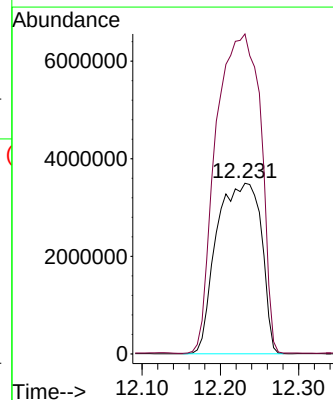
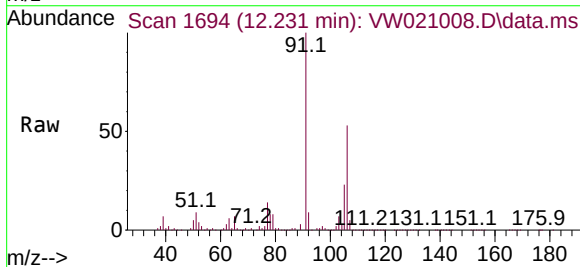
Instrument :
MSVOA_W
ClientSampleId :

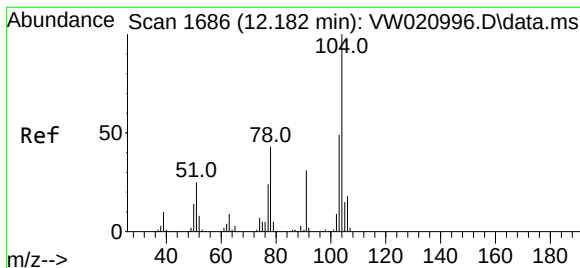
Tgt Ion:106 Resp: 6632715
Ion Ratio Lower Upper
106 100
91 234.3 149.9 278.3



#54
o-Xylene
Concen: 20536.076 ug/L
RT: 12.231 min Scan# 1694
Delta R.T. 0.067 min
Lab File: VW021008.D
Acq: 01 Dec 2021 17:46

Tgt Ion:106 Resp:13811941
Ion Ratio Lower Upper
106 100
91 187.4 153.6 285.3





#55

Styrene

Concen: 217.403 ug/L

RT: 12.207 min Scan# 1

Delta R.T. 0.025 min

Lab File: VW021008.D

Acq: 01 Dec 2021 17:46

Instrument :

MSVOA_W

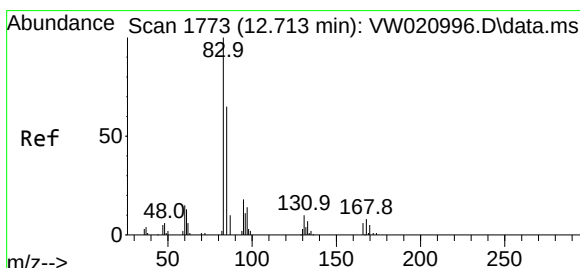
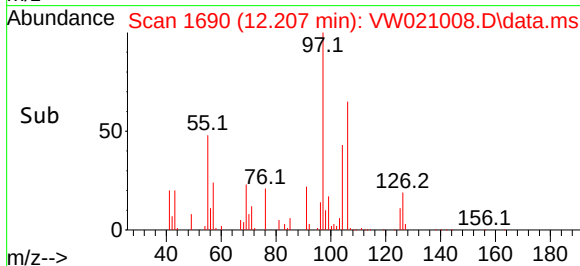
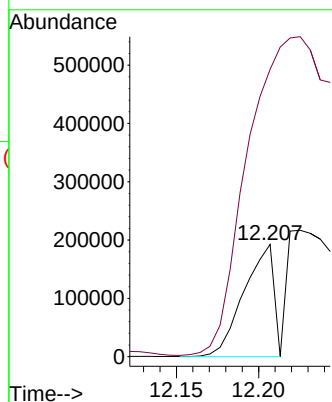
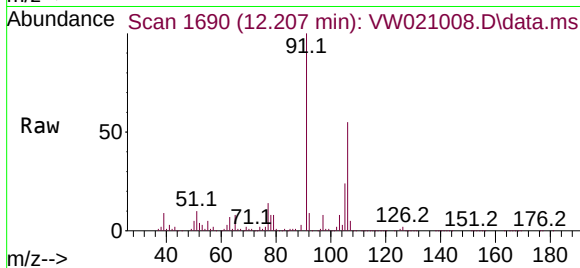
ClientSampleId :

Tgt Ion:104 Resp: 242792

Ion Ratio Lower Upper

104 100

78 255.9 34.4 64.0#



#57

1,1,2,2-Tetrachloroethane

Concen: 187.031 ug/L

RT: 12.682 min Scan# 1768

Delta R.T. -0.030 min

Lab File: VW021008.D

Acq: 01 Dec 2021 17:46

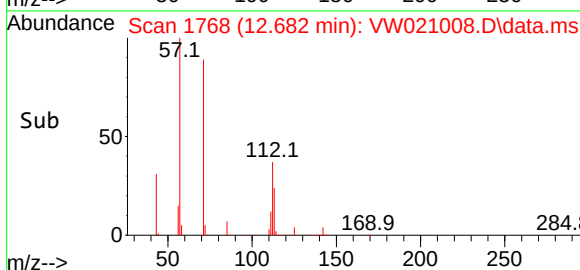
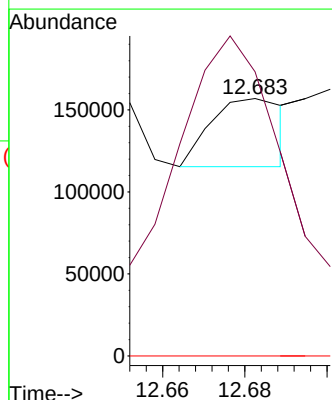
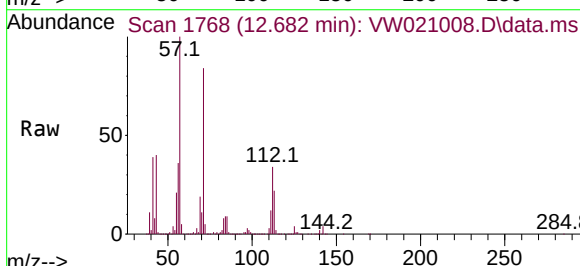
Tgt Ion: 83 Resp: 51638

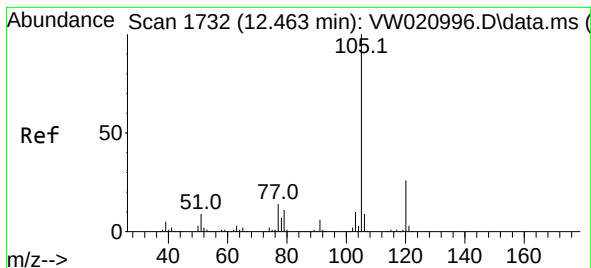
Ion Ratio Lower Upper

83 100

85 110.4 44.0 81.6#

131 0.0 6.9 10.3#





#60

Isopropylbenzene

Concen: 4884.933 ug/L

RT: 12.487 min Scan# 1

Delta R.T. 0.025 min

Lab File: VW021008.D

Acq: 01 Dec 2021 17:46

Instrument :

MSVOA_W

ClientSampleId :

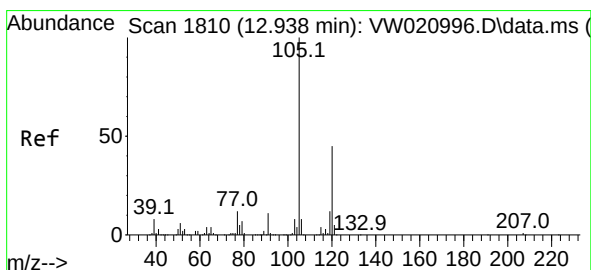
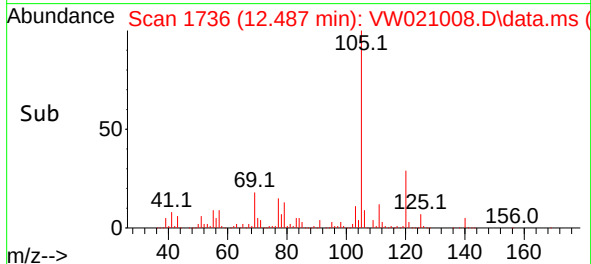
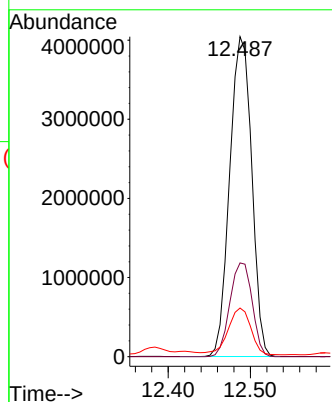
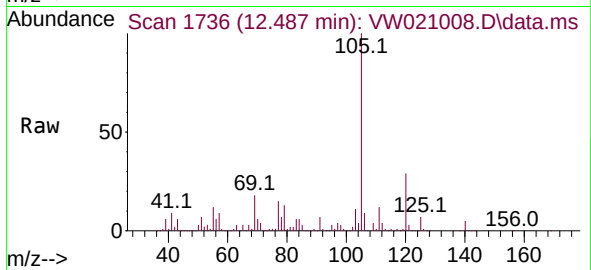
Tgt Ion:105 Resp: 7532307

Ion Ratio Lower Upper

105 100

120 29.7 20.1 30.1

77 15.1 13.8 20.8



#62

1,3,5-Trimethylbenzene

Concen: 14449.261 ug/L

RT: 13.262 min Scan# 1863

Delta R.T. 0.323 min

Lab File: VW021008.D

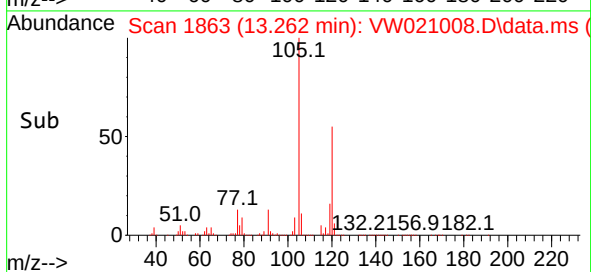
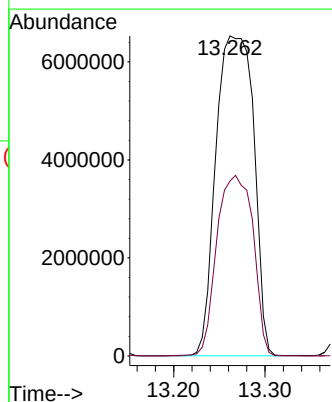
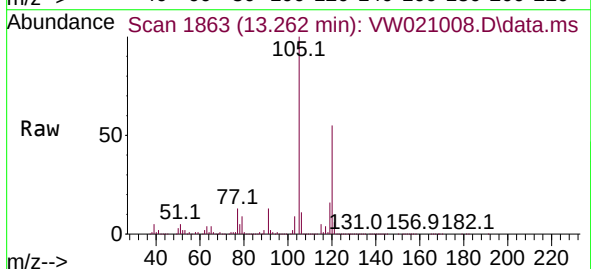
Acq: 01 Dec 2021 17:46

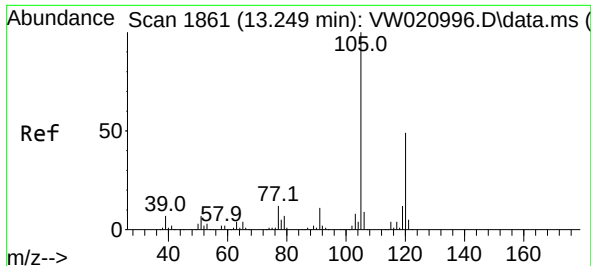
Tgt Ion:105 Resp:18795078

Ion Ratio Lower Upper

105 100

120 54.0 37.4 56.2

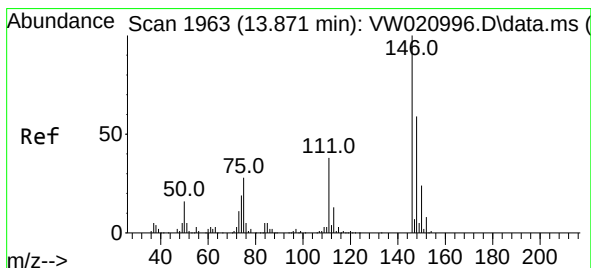
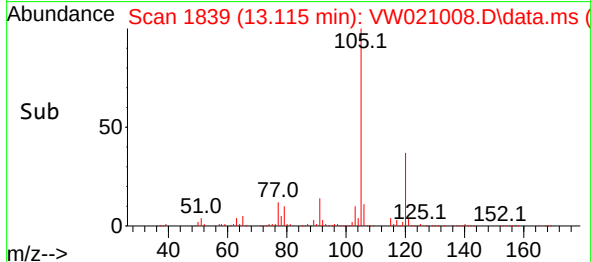
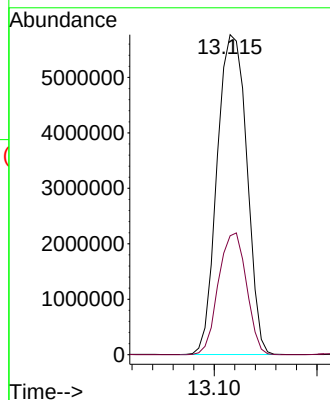
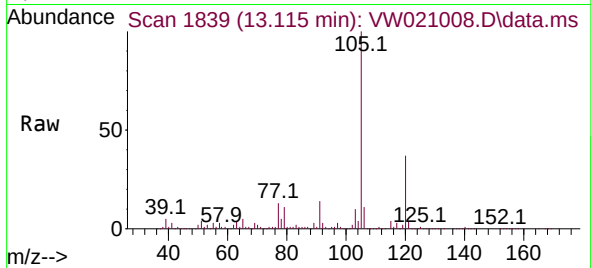




#63
1,2,4-Trimethylbenzene
Concen: 9023.550 ug/L
RT: 13.115 min Scan# 1861
Delta R.T. -0.134 min
Lab File: VW021008.D
Acq: 01 Dec 2021 17:46

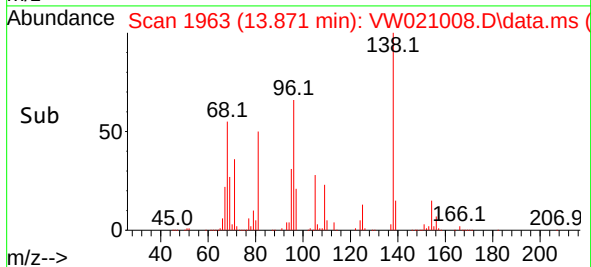
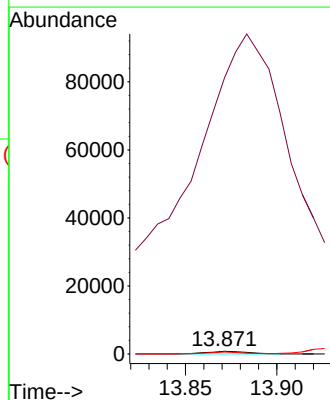
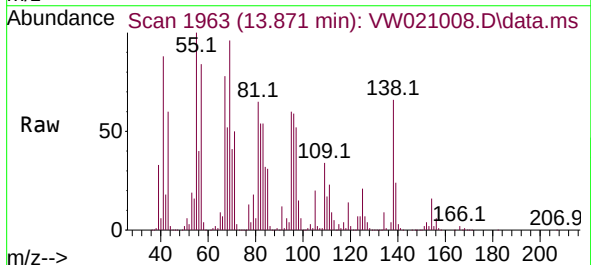
Instrument :
MSVOA_W
ClientSampleId :

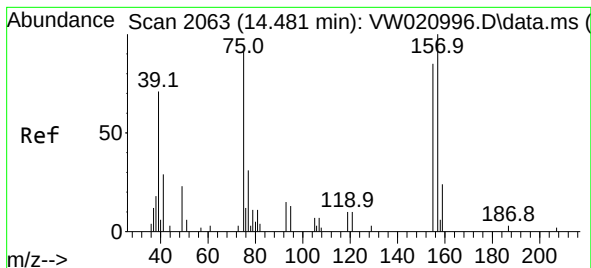
Tgt Ion:105 Resp:11580646
Ion Ratio Lower Upper
105 100
120 35.8 35.0 52.6



#67
1,2-Dichlorobenzene
Concen: 1.904 ug/L
RT: 13.871 min Scan# 1963
Delta R.T. 0.000 min
Lab File: VW021008.D
Acq: 01 Dec 2021 17:46

Tgt Ion:146 Resp: 1213
Ion Ratio Lower Upper
146 100
111 9865.4 33.1 49.7#
148 67.7 47.4 71.2





#68

1,2-Dibromo-3-chloropropane

Concen: 37.909 ug/L

RT: 14.493 min Scan# 2065

Delta R.T. 0.012 min

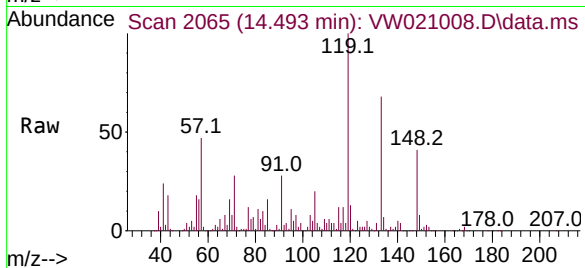
Lab File: VW021008.D

Acq: 01 Dec 2021 17:46

Instrument :

MSVOA_W

ClientSampleId :



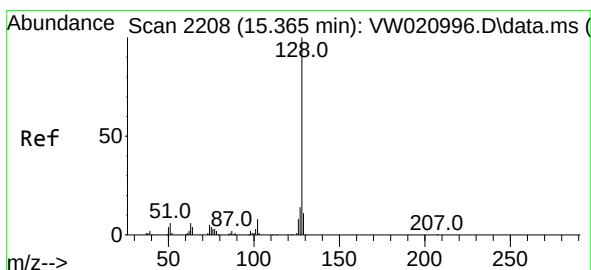
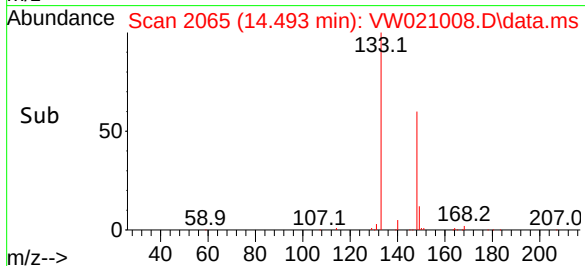
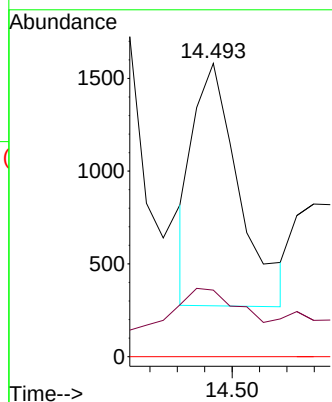
Tgt Ion: 75 Resp: 1505

Ion Ratio Lower Upper

75 100

155 22.7 54.2 81.2#

157 0.0 69.4 104.2#



#71

Naphthalene

Concen: 632.508 ug/L

RT: 15.359 min Scan# 2207

Delta R.T. -0.006 min

Lab File: VW021008.D

Acq: 01 Dec 2021 17:46

Tgt Ion:128 Resp: 482780

Ion Ratio Lower Upper

128 100

127 13.0 10.7 16.1

129 10.8 8.6 12.8

