

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW120321\
 Data File : VW021124.D
 Acq On : 04 Dec 2021 17:39
 Operator : SY/VA
 Sample : M4885-10
 Misc : 4.33g/10.0mL/MSVOA_W/SOIL
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :

Quant Time: Dec 06 00:50:35 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM120321SMA.M
 Quant Title : SFAM01.0
 QLast Update : Sat Dec 04 04:50:24 2021
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	8.842	114	61935	25.000	ug/L	# 0.00
28) Chlorobenzene-d5	11.634	117	30033	25.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	13.554	152	4552	25.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	2.355	65	40296	46.697	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	= 186.800%#	
7) Chloroethane-d5	2.885	69	28632	49.566	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	= 198.280%#	
11) 1,1-Dichloroethene-d2	4.013	63	40873	29.650	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	= 118.600%#	
21) 2-Butanone-d5	7.074	46	13544	68.811	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	= 137.620%#	
24) Chloroform-d	7.647	84	57972	37.375	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	= 149.520%	
26) 1,2-Dichloroethane-d4	8.305	65	30061	35.426	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	= 141.720%#	
32) Benzene-d6	8.275	84	105240	68.533	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	= 274.120%#	
36) 1,2-Dichloropropane-d6	9.275	67	30699	71.938	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	= 287.760%#	
41) Toluene-d8	10.323	98	73100	46.425	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	= 185.720%#	
43) trans-1,3-Dichloroprop...	10.579	79	6682	34.484	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	= 137.920%#	
47) 2-Hexanone-d5	10.927	63	8244	100.971	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	= 201.940%#	
56) 1,1,2,2-Tetrachloroeth...	12.689	84	16915	42.845	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	= 171.360%#	
66) 1,2-Dichlorobenzene-d4	13.853	152	5304	32.520	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	= 130.080%#	
Target Compounds						
					Qvalue	
13) Acetone	4.123	43	2302	12.839	ug/L	96
16) Methylene chloride	4.916	84	5298	5.430	ug/L	78
22) 2-Butanone	7.147	43	1551	6.251	ug/L #	52
27) 1,2-Dichloroethane	8.403	62	2367	2.375	ug/L #	94
34) Trichloroethene	9.092	95	216859	460.254	ug/L	89
35) Methylcyclohexane	9.336	83	980	1.236	ug/L	88
37) 1,2-Dichloropropane	9.268	63	3882	10.057	ug/L #	88
39) cis-1,3-Dichloropropene	10.037	75	815	1.305	ug/L #	60
40) 4-Methyl-2-pentanone	10.213	43	559	2.126	ug/L #	79
42) Toluene	10.390	91	7384	3.785	ug/L	100
45) 1,1,2-Trichloroethane	10.860	97	3357	10.373	ug/L #	7
46) Tetrachloroethene	10.860	164	397708	921.794	ug/L	91
48) 2-Hexanone	10.921	43	1608	8.477	ug/L #	65
49) Dibromochloromethane	10.866	129	324046	801.154	ug/L #	10
52) Ethylbenzene	11.725	91	1018	0.464	ug/L	87
53) m,p-Xylene	11.835	106	1637	1.802	ug/L	78
54) o-Xylene	12.164	106	1045	1.220	ug/L	92
60) Isopropylbenzene	12.457	105	405	0.640	ug/L #	59
61) 1,2,3-Trichloropropane	12.926	75	55	0.721	ug/L #	40

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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM120321SMA.M
Quant Title : SFAM01.0
QLast Update : Sat Dec 04 04:50:24 2021
Response via : Initial Calibration

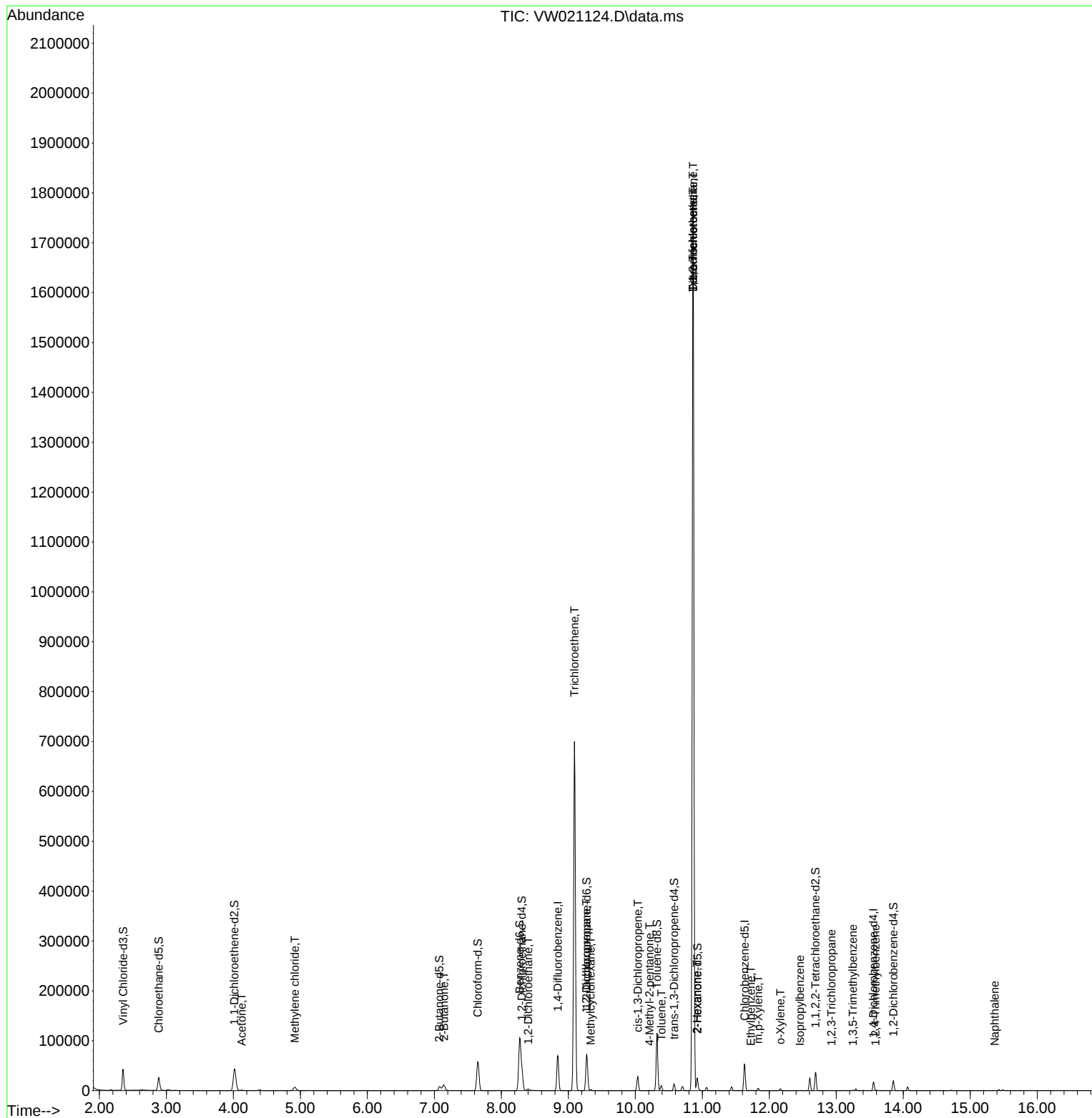
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
62) 1,3,5-Trimethylbenzene	13.249	105	805	1.519	ug/L	91
63) 1,2,4-Trimethylbenzene	13.585	105	301	0.565	ug/L	91
71) Naphthalene	15.365	128	634	1.896	ug/L #	69

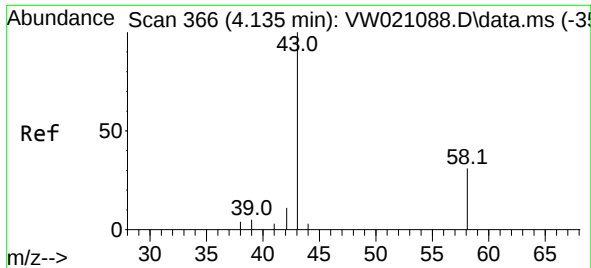
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#13

Acetone

Concen: 12.839 ug/L

RT: 4.123 min Scan# 3

Delta R.T. -0.012 min

Lab File: VW021124.D

Acq: 04 Dec 2021 17:39

Instrument :

MSVOA_W

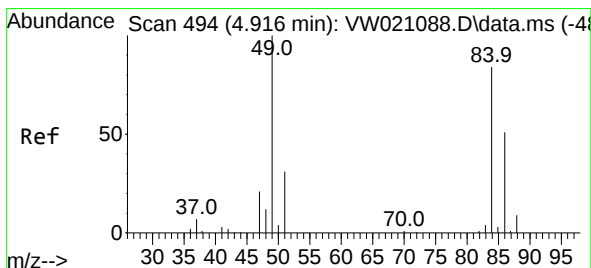
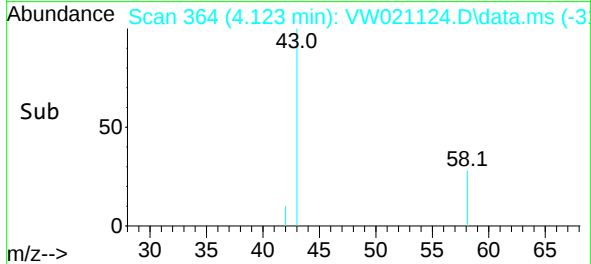
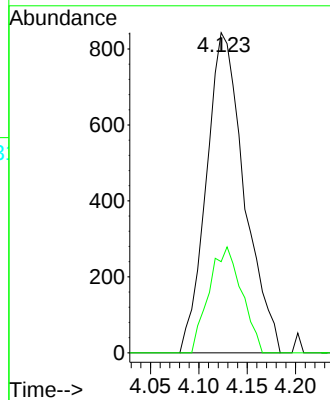
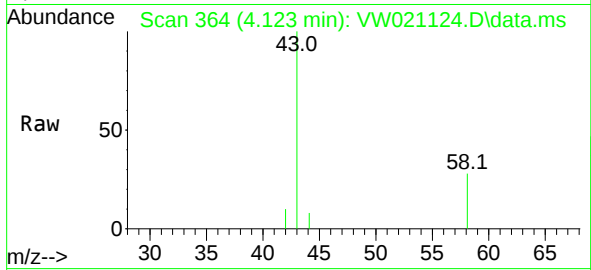
ClientSampleId :

Tgt Ion: 43 Resp: 2302

Ion Ratio Lower Upper

43 100

58 28.6 0.0 52.8



#16

Methylene chloride

Concen: 5.430 ug/L

RT: 4.916 min Scan# 494

Delta R.T. 0.000 min

Lab File: VW021124.D

Acq: 04 Dec 2021 17:39

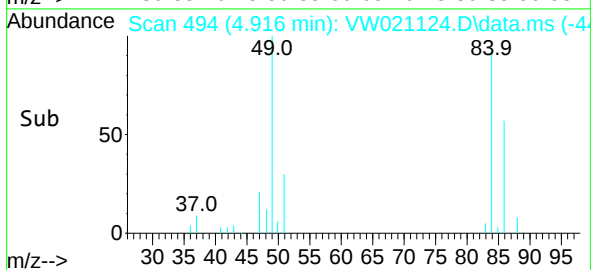
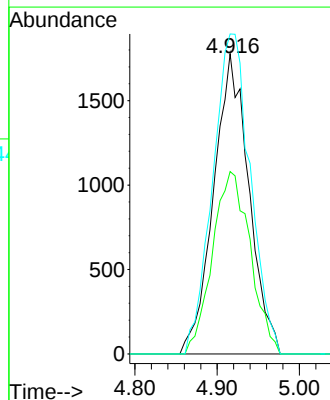
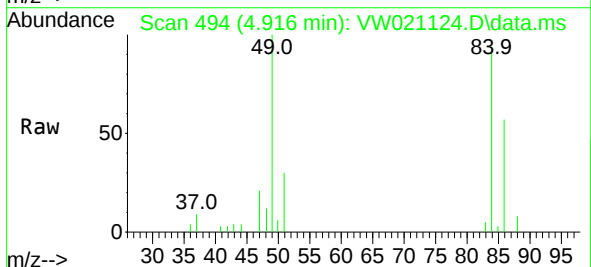
Tgt Ion: 84 Resp: 5298

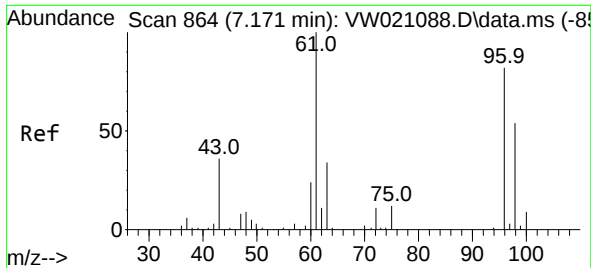
Ion Ratio Lower Upper

84 100

86 60.7 45.5 84.5

49 106.6 100.5 186.7

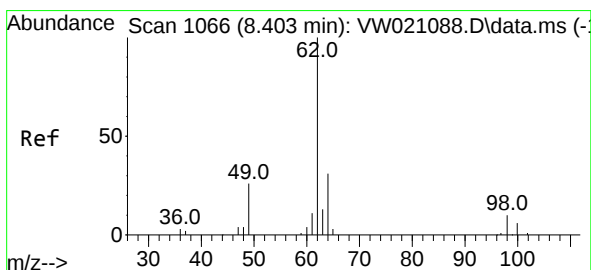
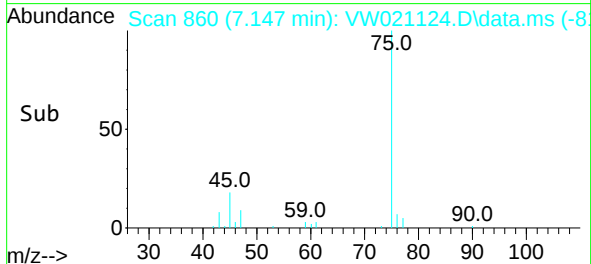
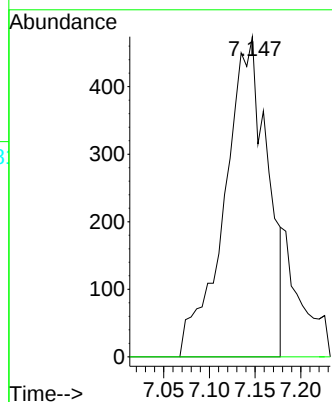
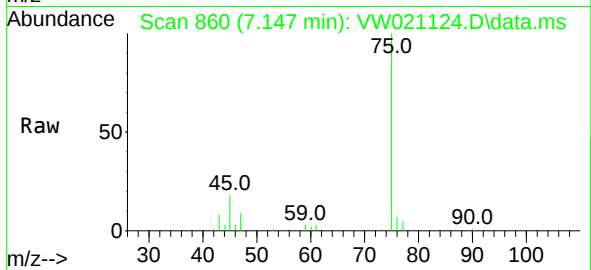




#22
2-Butanone
Concen: 6.251 ug/L
RT: 7.147 min Scan# 864
Delta R.T. -0.024 min
Lab File: VW021124.D
Acq: 04 Dec 2021 17:39

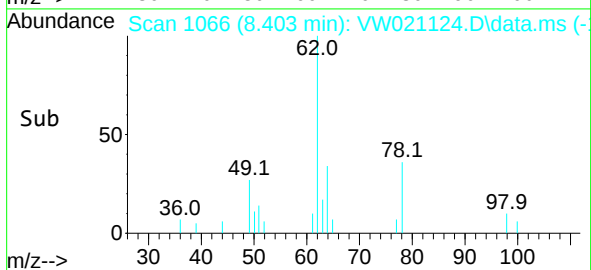
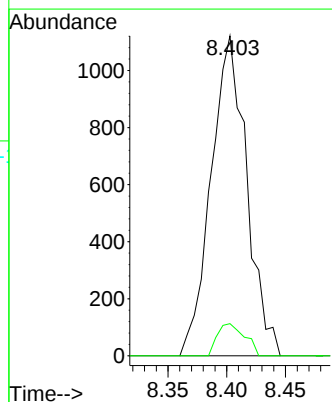
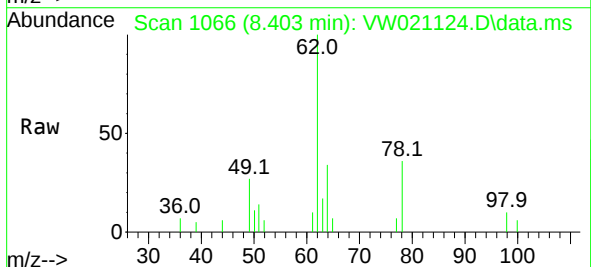
Instrument :
MSVOA_W
ClientSampleId :

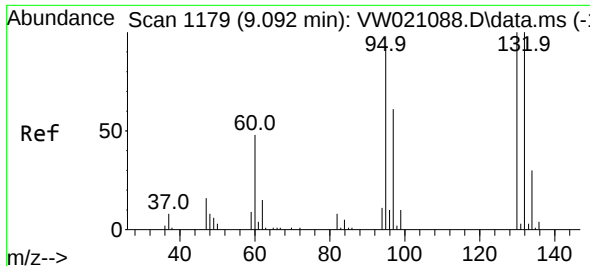
Tgt Ion: 43 Resp: 1551
Ion Ratio Lower Upper
43 100
72 0.0 11.8 35.4#



#27
1,2-Dichloroethane
Concen: 2.375 ug/L
RT: 8.403 min Scan# 1066
Delta R.T. 0.000 min
Lab File: VW021124.D
Acq: 04 Dec 2021 17:39

Tgt Ion: 62 Resp: 2367
Ion Ratio Lower Upper
62 100
98 10.1 6.5 9.7#





#34

Trichloroethene

Concen: 460.254 ug/L

RT: 9.092 min Scan# 1179

Delta R.T. 0.000 min

Lab File: VW021124.D

Acq: 04 Dec 2021 17:39

Instrument :

MSVOA_W

ClientSampleId :

Tgt Ion: 95 Resp: 216859

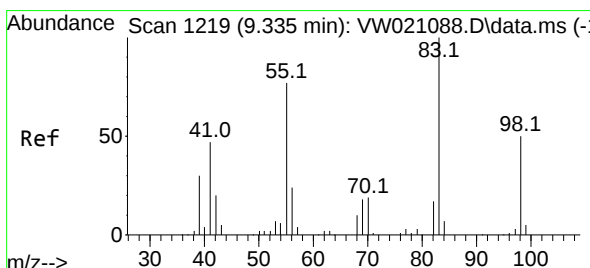
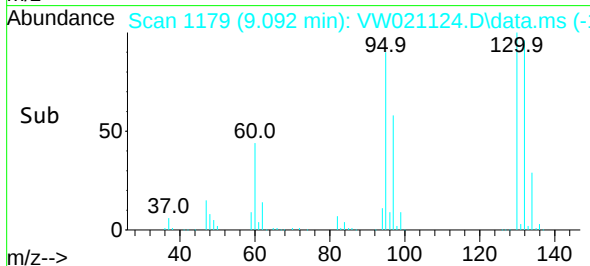
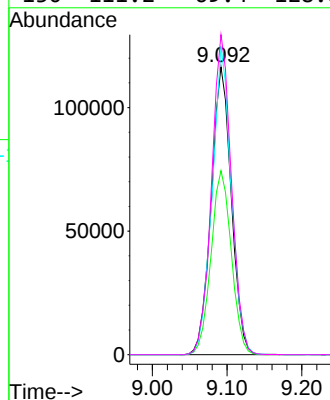
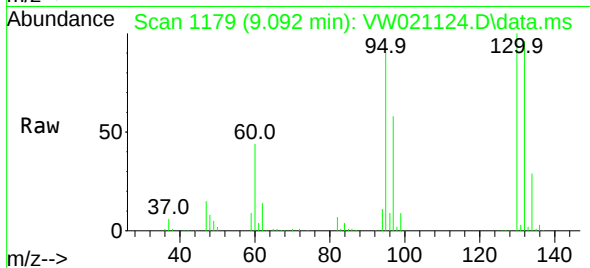
Ion Ratio Lower Upper

95 100

97 64.0 47.0 87.2

132 107.2 65.5 121.6

130 111.2 69.4 128.8



#35

Methylcyclohexane

Concen: 1.236 ug/L

RT: 9.336 min Scan# 1219

Delta R.T. 0.000 min

Lab File: VW021124.D

Acq: 04 Dec 2021 17:39

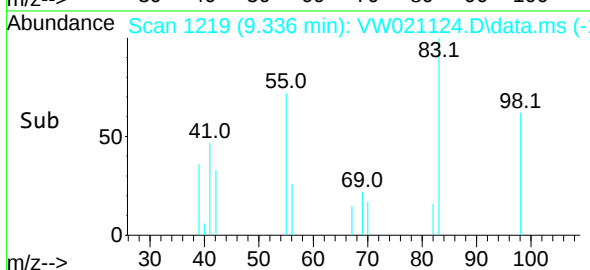
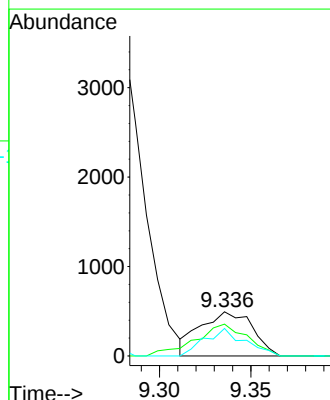
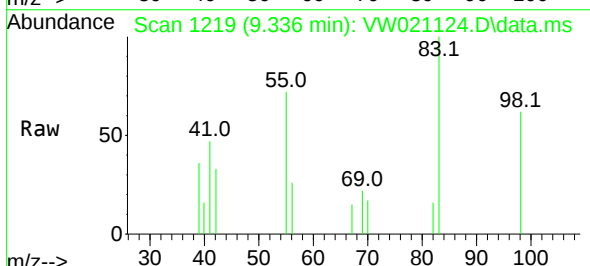
Tgt Ion: 83 Resp: 980

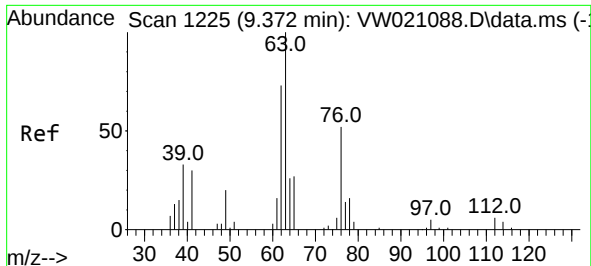
Ion Ratio Lower Upper

83 100

55 72.1 70.8 106.2

98 47.7 37.7 56.5





#37

1,2-Dichloropropane

Concen: 10.057 ug/L

RT: 9.268 min Scan# 11

Delta R.T. -0.104 min

Lab File: VW021124.D

Acq: 04 Dec 2021 17:39

Instrument :

MSVOA_W

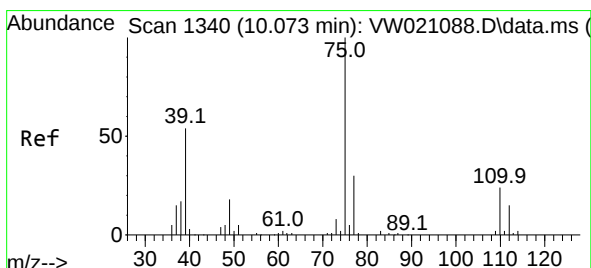
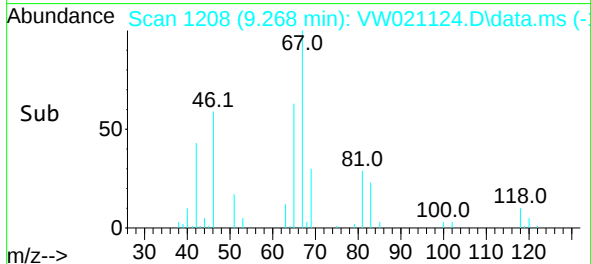
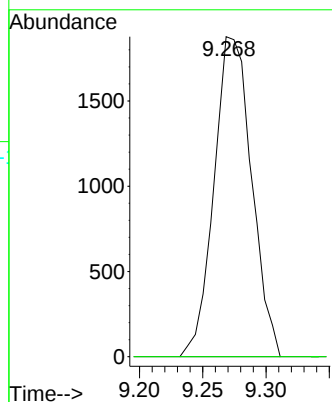
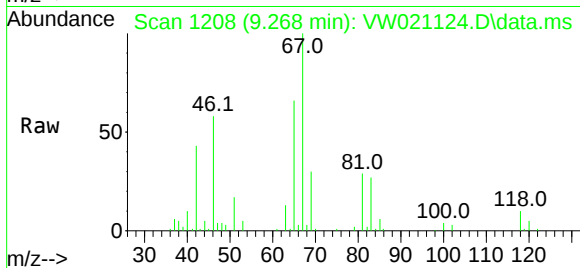
ClientSampleId :

Tgt Ion: 63 Resp: 3882

Ion Ratio Lower Upper

63 100

112 0.0 3.2 4.8#



#39

cis-1,3-Dichloropropene

Concen: 1.305 ug/L

RT: 10.037 min Scan# 1334

Delta R.T. -0.037 min

Lab File: VW021124.D

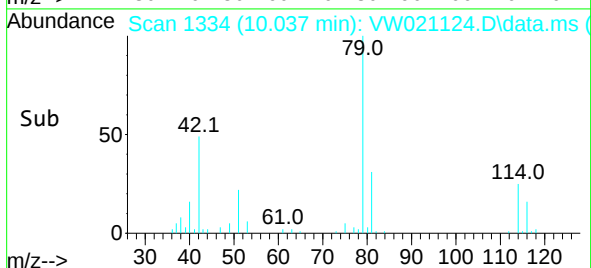
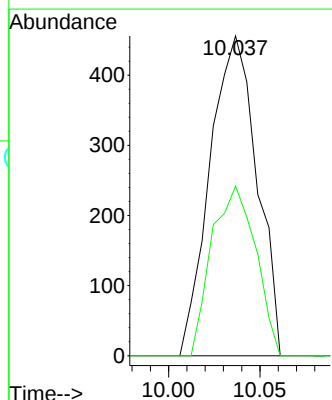
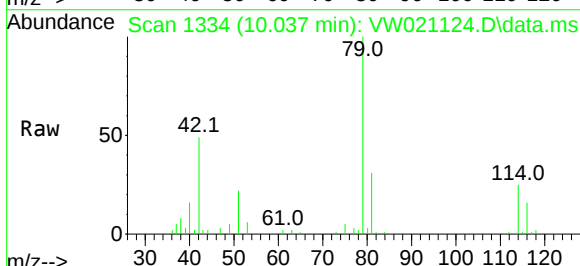
Acq: 04 Dec 2021 17:39

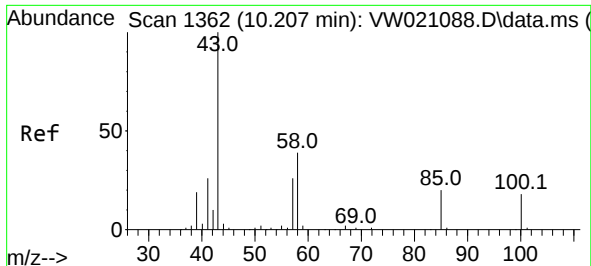
Tgt Ion: 75 Resp: 815

Ion Ratio Lower Upper

75 100

77 53.1 21.8 40.6#





#40

4-Methyl-2-pentanone

Concen: 2.126 ug/L

RT: 10.213 min Scan# 1

Delta R.T. 0.006 min

Lab File: VW021124.D

Acq: 04 Dec 2021 17:39

Instrument :

MSVOA_W

ClientSampleId :

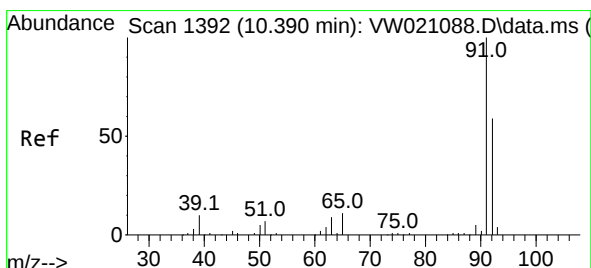
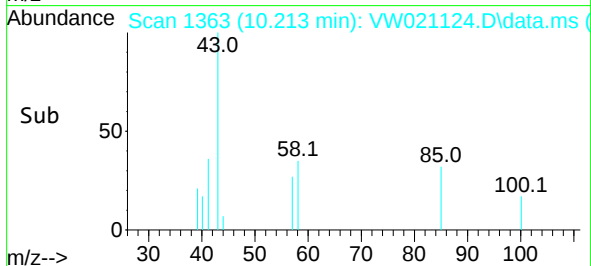
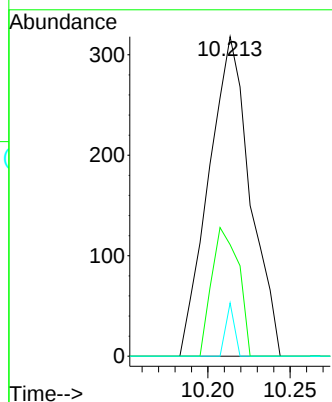
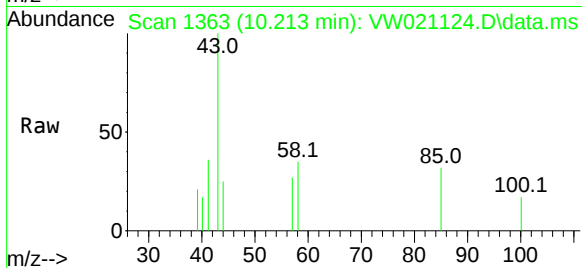
Tgt Ion: 43 Resp: 559

Ion Ratio Lower Upper

43 100

58 25.9 28.8 43.2#

100 0.0 10.0 15.0#



#42

Toluene

Concen: 3.785 ug/L

RT: 10.390 min Scan# 1392

Delta R.T. 0.000 min

Lab File: VW021124.D

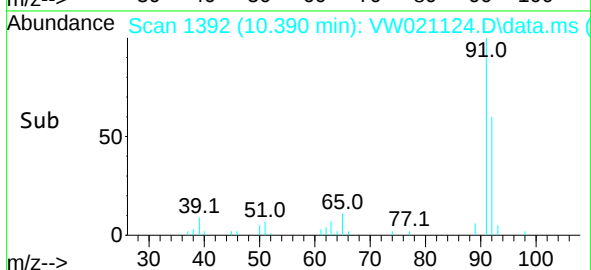
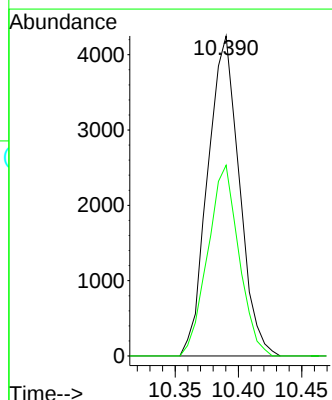
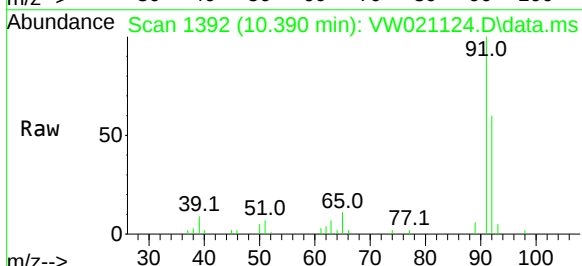
Acq: 04 Dec 2021 17:39

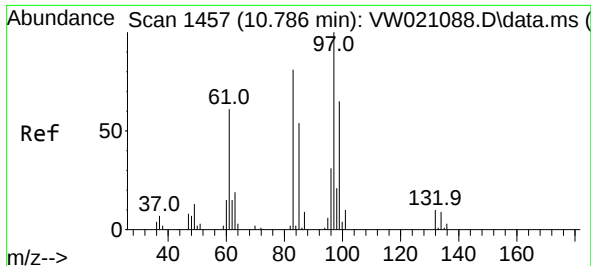
Tgt Ion: 91 Resp: 7384

Ion Ratio Lower Upper

91 100

92 59.6 41.7 77.5





#45

1,1,2-Trichloroethane

Concen: 10.373 ug/L

RT: 10.860 min Scan# 14

Delta R.T. 0.073 min

Lab File: VW021124.D

Acq: 04 Dec 2021 17:39

Instrument :

MSVOA_W

ClientSampleId :

Tgt Ion: 97 Resp: 3357

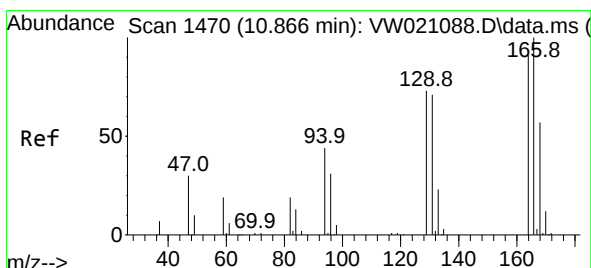
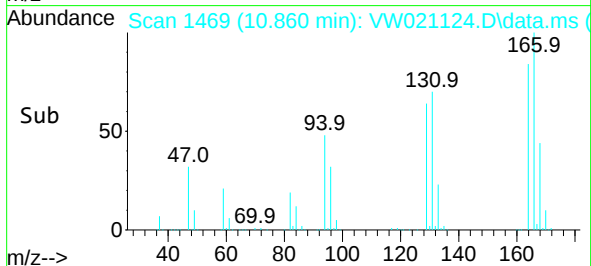
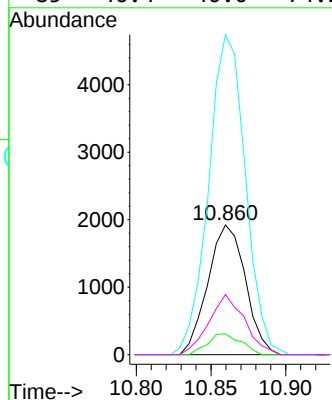
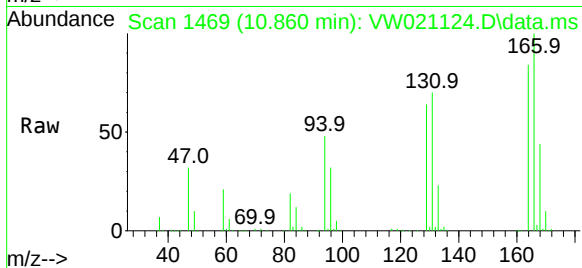
Ion Ratio Lower Upper

97 100

99 16.2 43.0 79.8#

83 246.7 62.6 116.3#

85 46.4 40.0 74.2



#46

Tetrachloroethene

Concen: 921.794 ug/L

RT: 10.860 min Scan# 1469

Delta R.T. -0.006 min

Lab File: VW021124.D

Acq: 04 Dec 2021 17:39

Tgt Ion:164 Resp: 397708

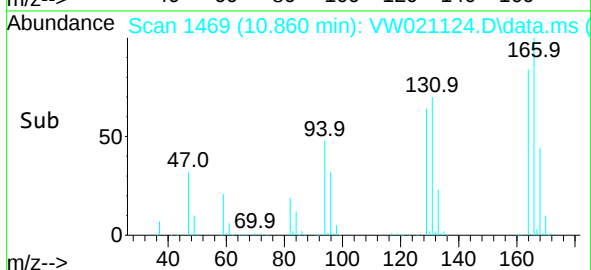
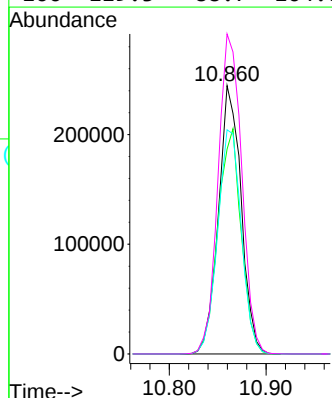
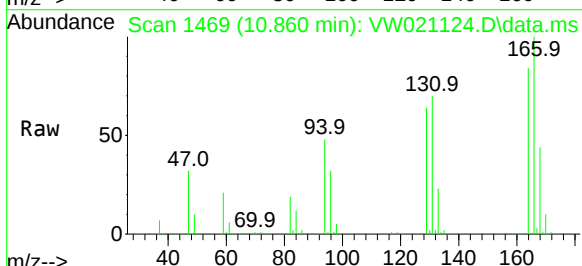
Ion Ratio Lower Upper

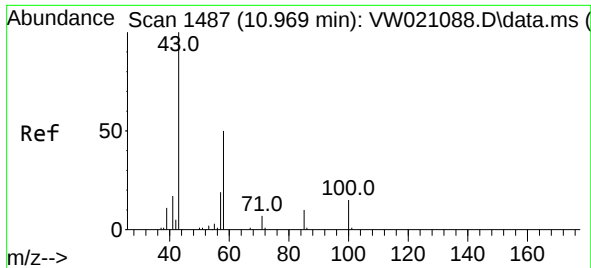
164 100

129 76.3 65.5 121.7

131 83.5 59.7 110.9

166 119.3 88.7 164.7

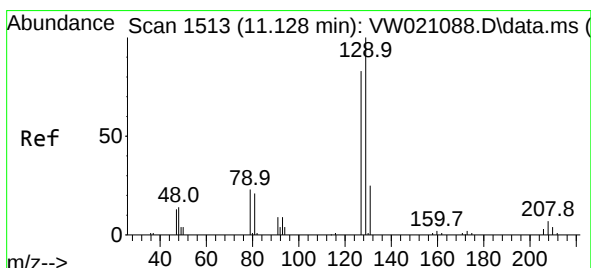
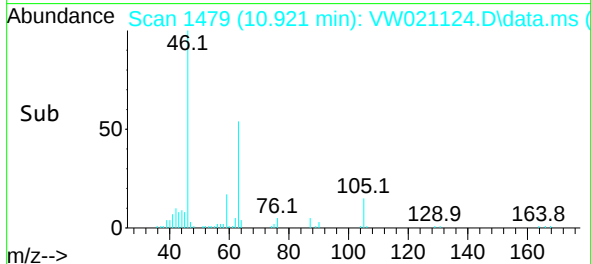
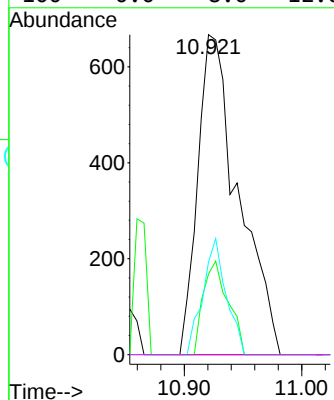
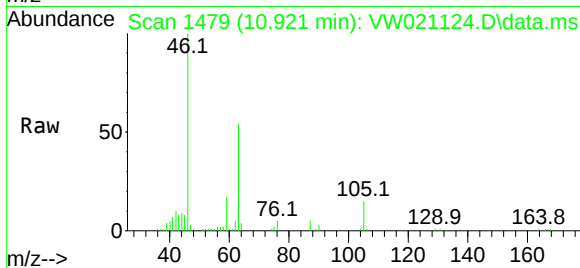




#48
2-Hexanone
Concen: 8.477 ug/L
RT: 10.921 min Scan# 1487
Delta R.T. -0.049 min
Lab File: VW021124.D
Acq: 04 Dec 2021 17:39

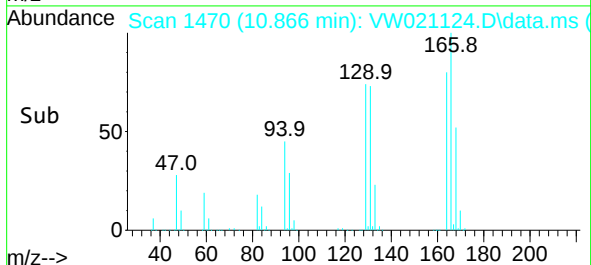
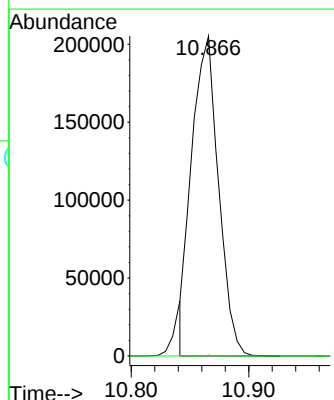
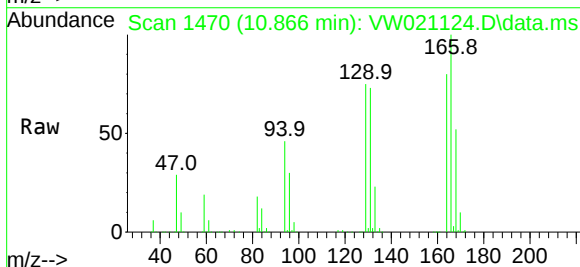
Instrument :
MSVOA_W
ClientSampleId :

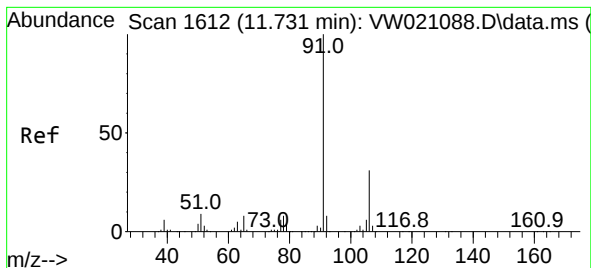
Tgt Ion: 43 Resp: 1608
Ion Ratio Lower Upper
43 100
58 17.9 40.2 60.2#
57 20.8 14.3 21.5
100 0.0 8.0 12.0#



#49
Dibromochloromethane
Concen: 801.154 ug/L
RT: 10.866 min Scan# 1470
Delta R.T. -0.262 min
Lab File: VW021124.D
Acq: 04 Dec 2021 17:39

Tgt Ion: 129 Resp: 324046
Ion Ratio Lower Upper
129 100
127 0.3 55.7 103.5#





#52

Ethylbenzene

Concen: 0.464 ug/L

RT: 11.725 min Scan# 1

Delta R.T. -0.006 min

Lab File: VW021124.D

Acq: 04 Dec 2021 17:39

Instrument :

MSVOA_W

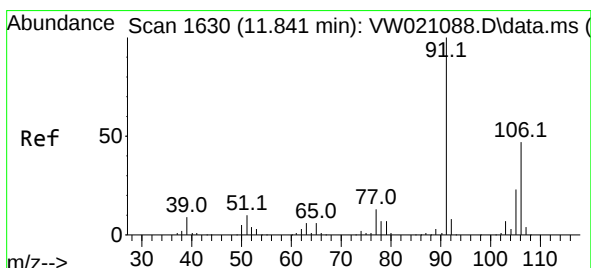
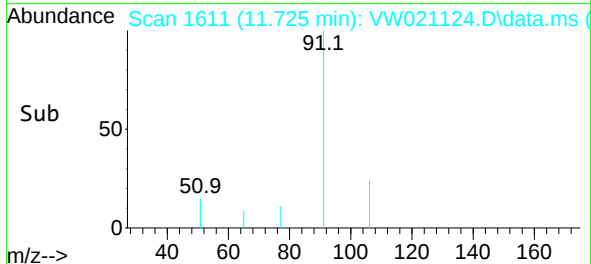
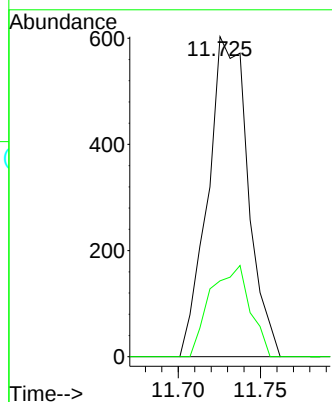
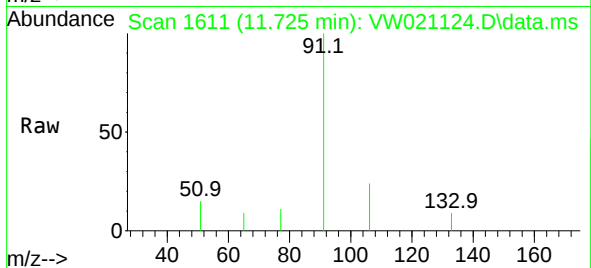
ClientSampleId :

Tgt Ion: 91 Resp: 1018

Ion Ratio Lower Upper

91 100

106 23.7 21.5 39.9



#53

m,p-Xylene

Concen: 1.802 ug/L

RT: 11.835 min Scan# 1629

Delta R.T. -0.006 min

Lab File: VW021124.D

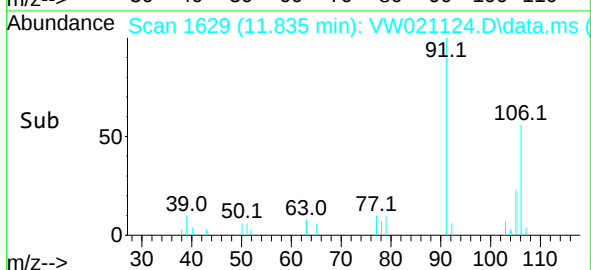
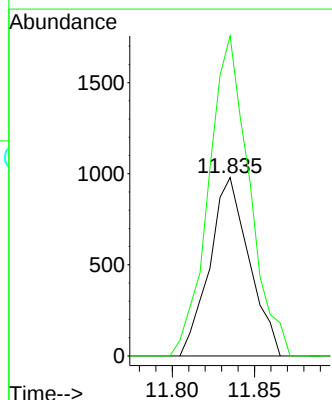
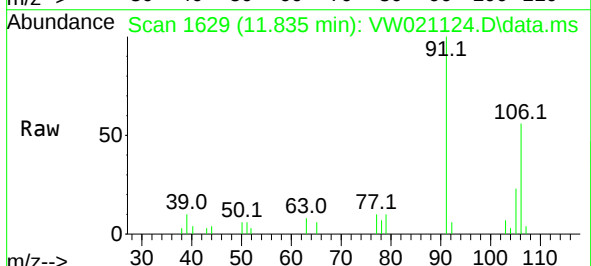
Acq: 04 Dec 2021 17:39

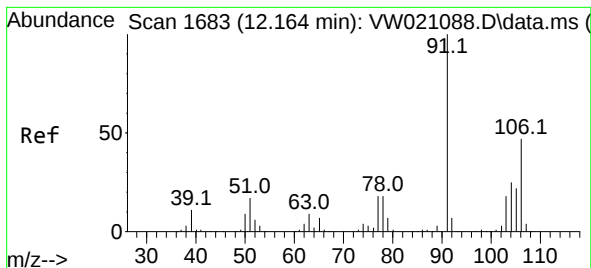
Tgt Ion: 106 Resp: 1637

Ion Ratio Lower Upper

106 100

91 179.4 149.9 278.3





#54

o-Xylene

Concen: 1.220 ug/L

RT: 12.164 min Scan# 1

Delta R.T. 0.000 min

Lab File: VW021124.D

Acq: 04 Dec 2021 17:39

Instrument :

MSVOA_W

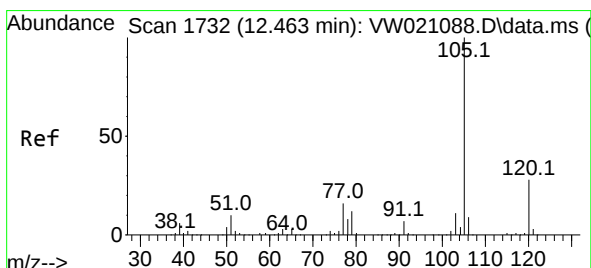
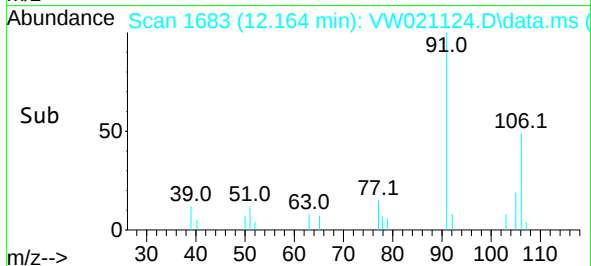
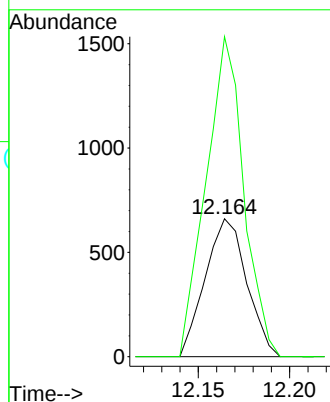
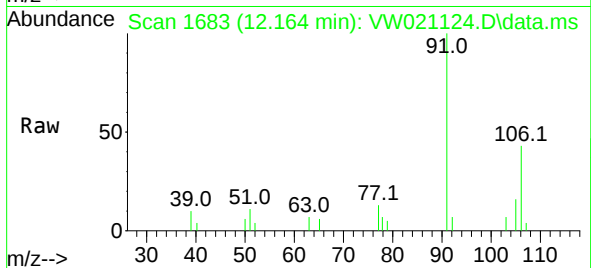
ClientSampleId :

Tgt Ion:106 Resp: 1045

Ion Ratio Lower Upper

106 100

91 232.1 153.6 285.3



#60

Isopropylbenzene

Concen: 0.640 ug/L

RT: 12.457 min Scan# 1731

Delta R.T. -0.006 min

Lab File: VW021124.D

Acq: 04 Dec 2021 17:39

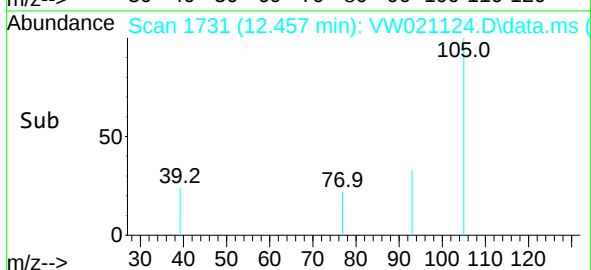
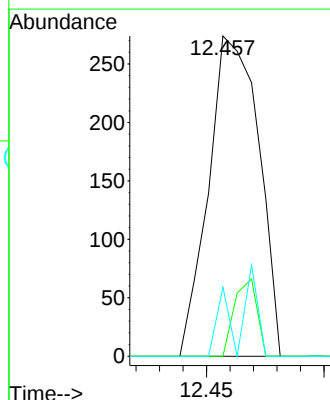
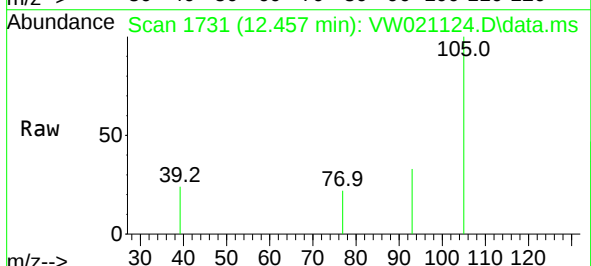
Tgt Ion:105 Resp: 405

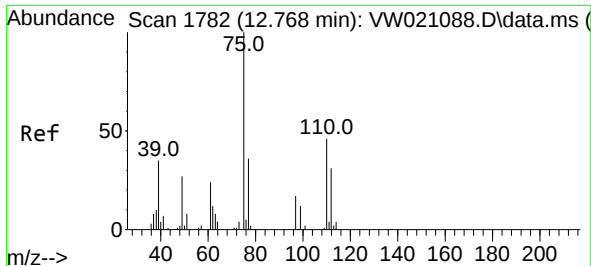
Ion Ratio Lower Upper

105 100

120 0.0 20.1 30.1#

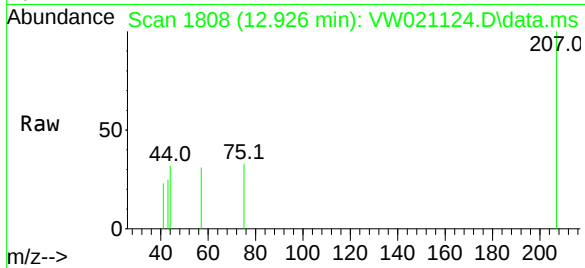
77 5.4 13.8 20.8#



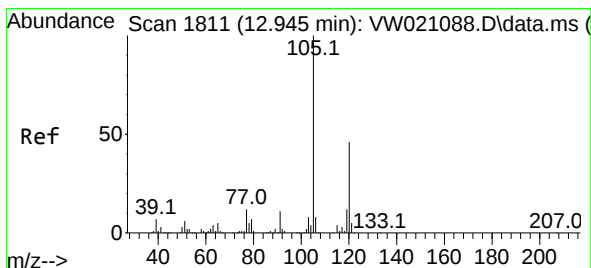
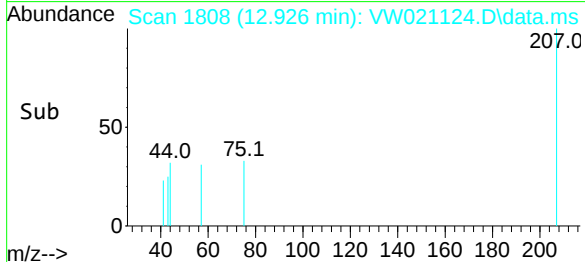
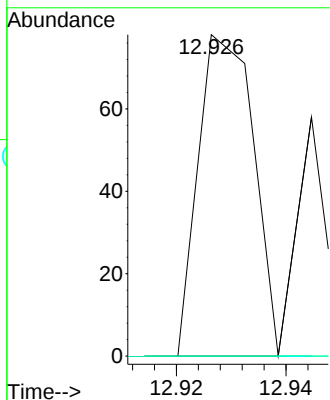


#61
1,2,3-Trichloropropane
Concen: 0.721 ug/L
RT: 12.926 min Scan# 1808
Delta R.T. 0.159 min
Lab File: VW021124.D
Acq: 04 Dec 2021 17:39

Instrument :
MSVOA_W
ClientSampleId :

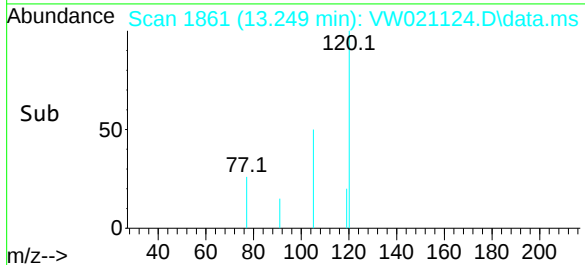
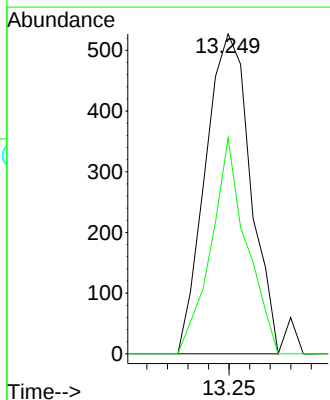
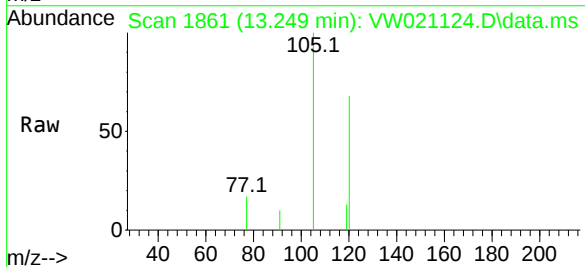


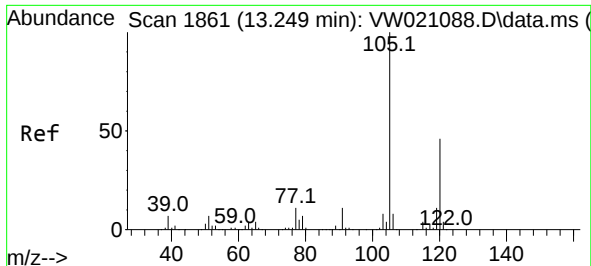
Tgt Ion: 75 Resp: 55
Ion Ratio Lower Upper
75 100
77 0.0 25.8 38.8#
110 0.0 29.0 43.4#



#62
1,3,5-Trimethylbenzene
Concen: 1.519 ug/L
RT: 13.249 min Scan# 1861
Delta R.T. 0.305 min
Lab File: VW021124.D
Acq: 04 Dec 2021 17:39

Tgt Ion: 105 Resp: 805
Ion Ratio Lower Upper
105 100
120 52.8 37.4 56.2





#63

1,2,4-Trimethylbenzene

Concen: 0.565 ug/L

RT: 13.585 min Scan# 1916

Delta R.T. 0.335 min

Lab File: VW021124.D

Acq: 04 Dec 2021 17:39

Instrument :

MSVOA_W

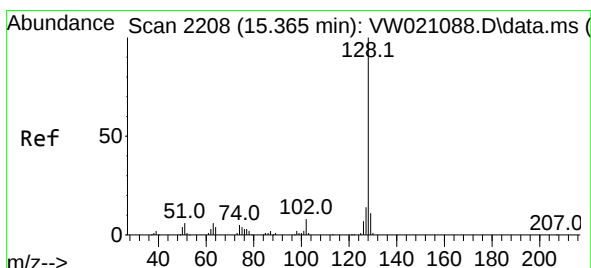
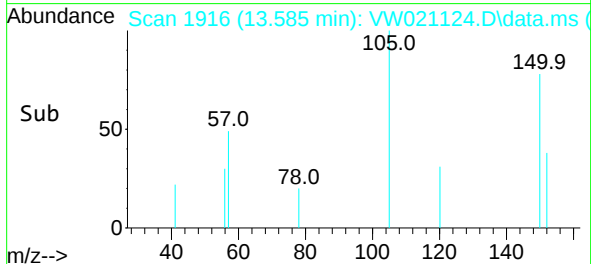
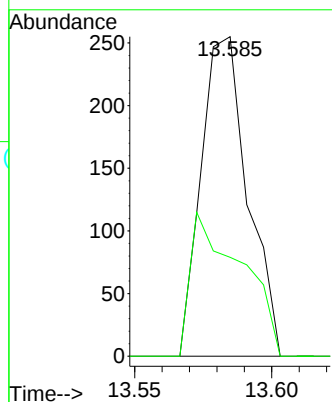
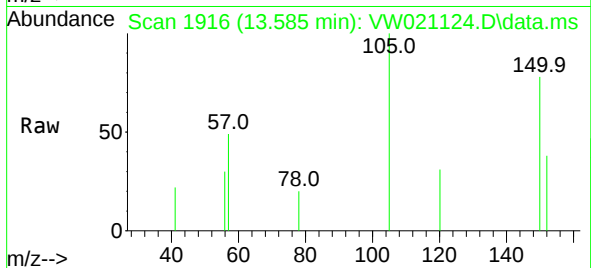
ClientSampleId :

Tgt Ion:105 Resp: 301

Ion Ratio Lower Upper

105 100

120 49.5 35.0 52.6



#71

Naphthalene

Concen: 1.896 ug/L

RT: 15.365 min Scan# 2208

Delta R.T. 0.000 min

Lab File: VW021124.D

Acq: 04 Dec 2021 17:39

Tgt Ion:128 Resp: 634

Ion Ratio Lower Upper

128 100

127 0.0 10.7 16.1#

129 0.0 8.6 12.8#

