

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW120421\
 Data File : VW021154.D
 Acq On : 05 Dec 2021 07:01
 Operator : SY/VA
 Sample : M4868-10
 Misc : 7.37g/10.0mL/MSVOA_W/SOIL
 ALS Vial : 48 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :

Quant Time: Dec 06 04:31:12 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	125874	25.000	ug/L	# 0.00
28) Chlorobenzene-d5	11.634	117	121410	25.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	13.560	152	70245	25.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	2.355	65	43041	24.542	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	98.160%
7) Chloroethane-d5	2.885	69	27083	23.069	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	92.280%
11) 1,1-Dichloroethene-d2	4.019	63	49783	17.769	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	71.080%
21) 2-Butanone-d5	7.080	46	12624	31.558	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	63.120%
24) Chloroform-d	7.653	84	72203	22.905	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	91.600%
26) 1,2-Dichloroethane-d4	8.305	65	36351	21.078	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	84.320%
32) Benzene-d6	8.281	84	142622	22.975	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	91.880%
36) 1,2-Dichloropropane-d6	9.274	67	38555	22.349	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	89.400%
41) Toluene-d8	10.323	98	138291	21.726	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	86.920%
43) trans-1,3-Dichloroprop...	10.579	79	15108	19.287	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	77.160%
47) 2-Hexanone-d5	10.927	63	10359	31.385	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	62.760%
56) 1,1,2,2-Tetrachloroeth...	12.695	84	27776	17.404	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	69.600%
66) 1,2-Dichlorobenzene-d4	13.853	152	56478	22.440	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	89.760%
Target Compounds						
					Qvalue	
5) Vinyl chloride	2.361	62	30724	12.849	ug/L	92
13) Acetone	4.135	43	247743	679.894	ug/L	93
16) Methylene chloride	4.922	84	9517	4.799	ug/L	83
19) 1,1-Dichloroethane	6.214	63	3208	1.163	ug/L	97
20) cis-1,2-Dichloroethene	7.171	96	104311	56.520	ug/L	76
22) 2-Butanone	7.177	43	49336	97.837	ug/L	85
27) 1,2-Dichloroethane	8.403	62	18561	9.163	ug/L	98
30) 1,1,1-Trichloroethane	7.878	97	4283	1.513	ug/L	94
33) Benzene	8.329	78	159687	23.129	ug/L	100
34) Trichloroethene	9.092	95	145298	76.282	ug/L	89
39) cis-1,3-Dichloropropene	10.036	75	1411	0.559	ug/L	# 69
40) 4-Methyl-2-pentanone	10.213	43	24922	23.444	ug/L	# 93
42) Toluene	10.390	91	255216	32.364	ug/L	99
46) Tetrachloroethene	10.859	164	7908	4.534	ug/L	96
48) 2-Hexanone	10.969	43	1906	2.485	ug/L	# 79
49) Dibromochloromethane	10.859	129	6921	4.233	ug/L	# 10
51) Chlorobenzene	11.658	112	7648	1.451	ug/L	90
52) Ethylbenzene	11.731	91	144081	16.230	ug/L	96
53) m,p-Xylene	11.835	106	238451	64.928	ug/L	91

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 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)

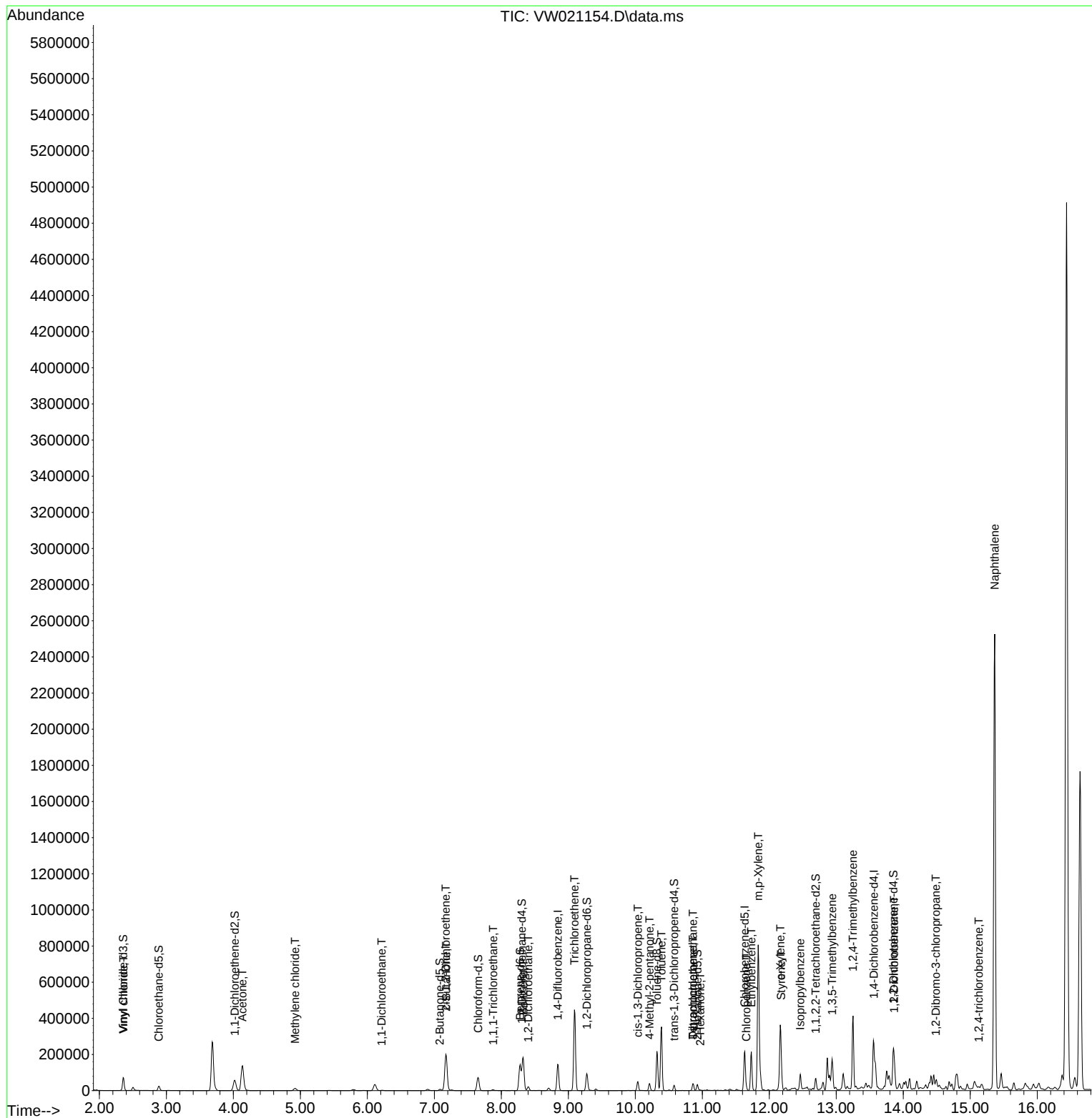
54) o-Xylene	12.164	106	83348	24.071	ug/L	99
55) Styrene	12.176	104	43395	7.356	ug/L	86
60) Isopropylbenzene	12.463	105	54016	5.533	ug/L	97
62) 1,3,5-Trimethylbenzene	12.938	105	63643	7.785	ug/L	95
63) 1,2,4-Trimethylbenzene	13.249	105	220507	26.818	ug/L	97
67) 1,2-Dichlorobenzene	13.865	146	13883	3.392	ug/L	94
68) 1,2-Dibromo-3-chloropr...	14.487	75	1524	5.735	ug/L #	10
70) 1,2,4-trichlorobenzene	15.127	180	3763	1.356	ug/L #	61
71) Naphthalene	15.365	128	2204234	427.128	ug/L	99

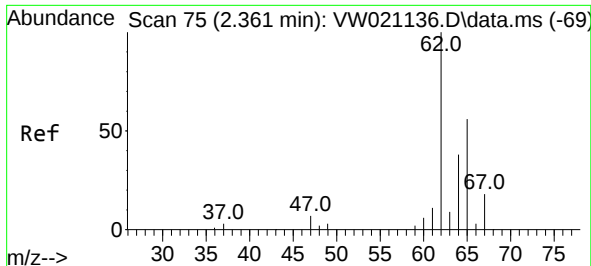
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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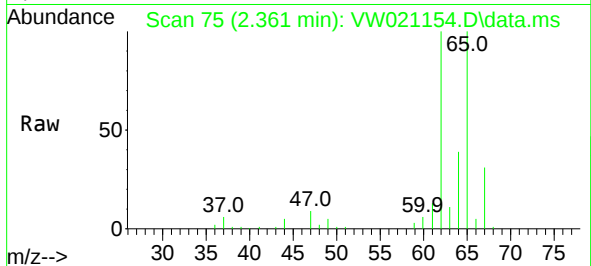
Quant Time: Dec 06 04:31:12 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM120321SMA.M
Quant Title : SFAM01.0
QLast Update : Sat Dec 04 04:50:24 2021
Response via : Initial Calibration



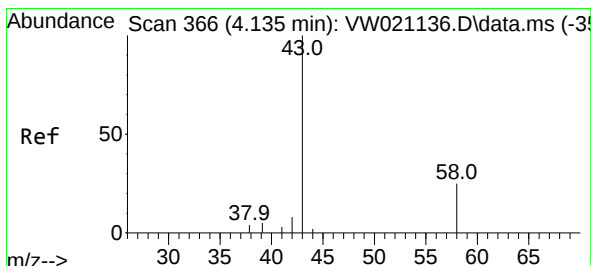
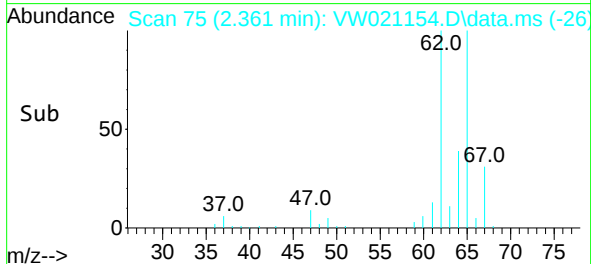
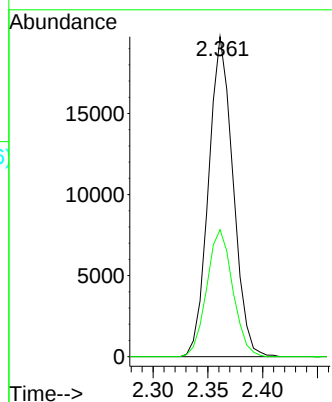


#5
 Vinyl chloride
 Concen: 12.849 ug/L
 RT: 2.361 min Scan# 75
 Delta R.T. -0.000 min
 Lab File: VW021154.D
 Acq: 05 Dec 2021 07:01

Instrument :
 MSVOA_W
 ClientSampleId :

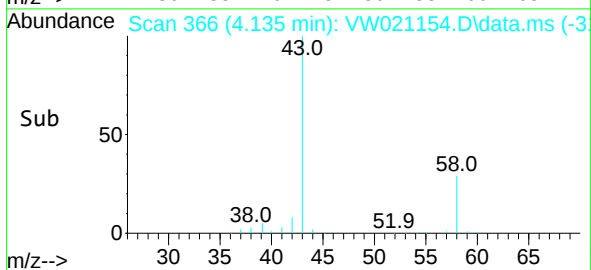
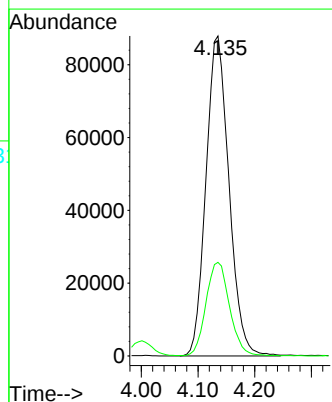
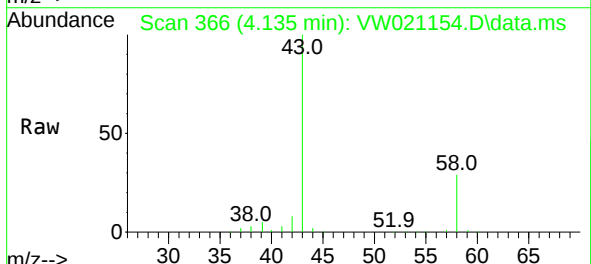


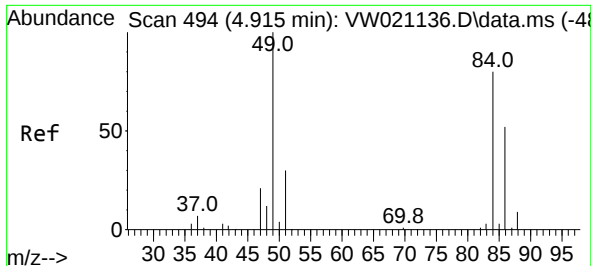
Tgt Ion: 62 Resp: 30724
 Ion Ratio Lower Upper
 62 100
 64 39.7 24.4 45.2



#13
 Acetone
 Concen: 679.894 ug/L
 RT: 4.135 min Scan# 366
 Delta R.T. -0.000 min
 Lab File: VW021154.D
 Acq: 05 Dec 2021 07:01

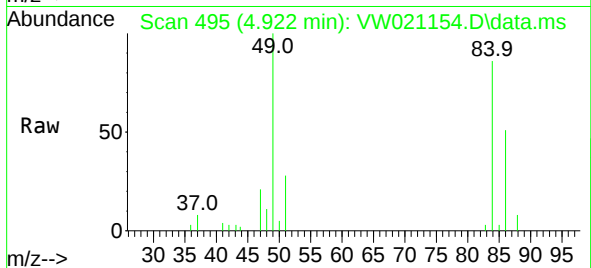
Tgt Ion: 43 Resp: 247743
 Ion Ratio Lower Upper
 43 100
 58 30.0 0.0 52.8



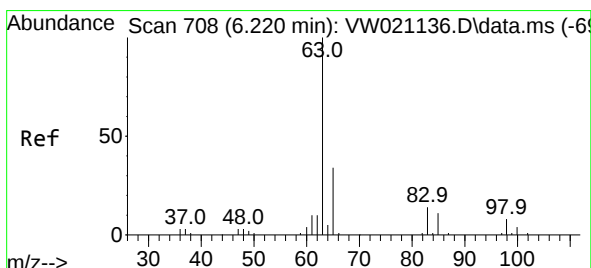
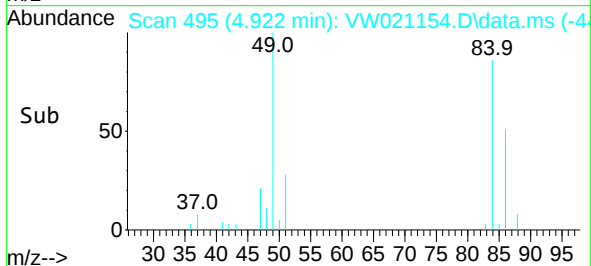
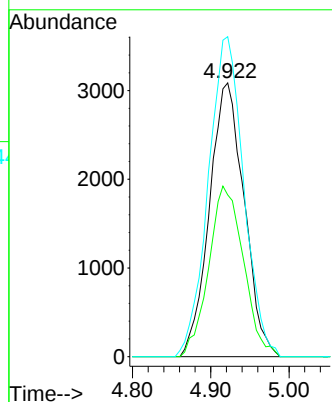


#16
Methylene chloride
Concen: 4.799 ug/L
RT: 4.922 min Scan# 49
Delta R.T. 0.006 min
Lab File: VW021154.D
Acq: 05 Dec 2021 07:01

Instrument :
MSVOA_W
ClientSampleId :

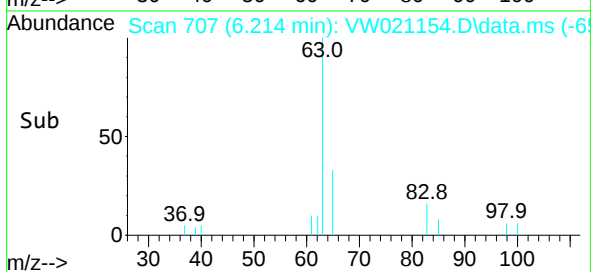
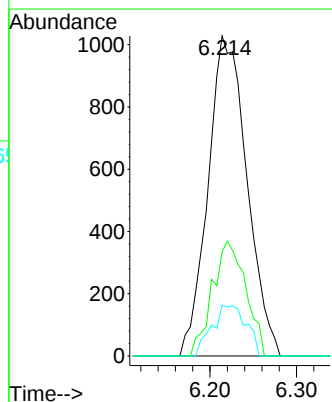
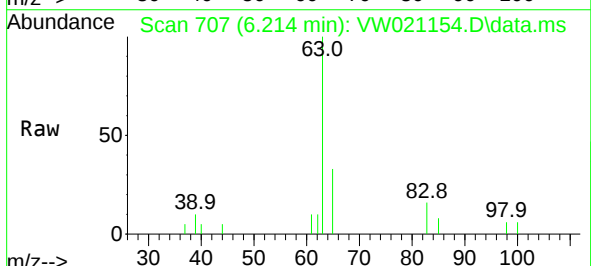


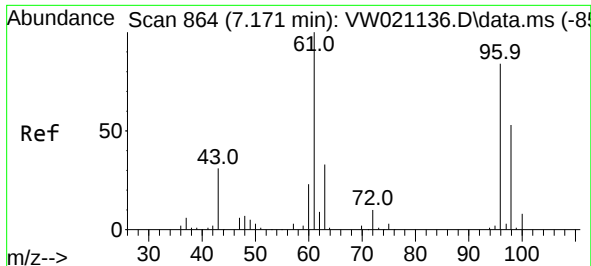
Tgt Ion: 84 Resp: 9517
Ion Ratio Lower Upper
84 100
86 59.1 45.5 84.5
49 116.9 100.5 186.7



#19
1,1-Dichloroethane
Concen: 1.163 ug/L
RT: 6.214 min Scan# 707
Delta R.T. -0.006 min
Lab File: VW021154.D
Acq: 05 Dec 2021 07:01

Tgt Ion: 63 Resp: 3208
Ion Ratio Lower Upper
63 100
65 32.6 22.1 41.1
83 15.9 9.2 17.2

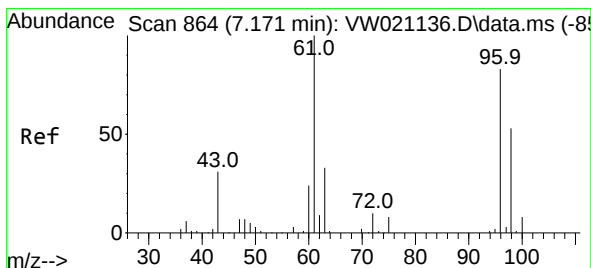
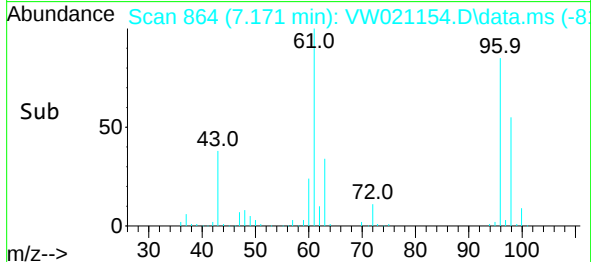
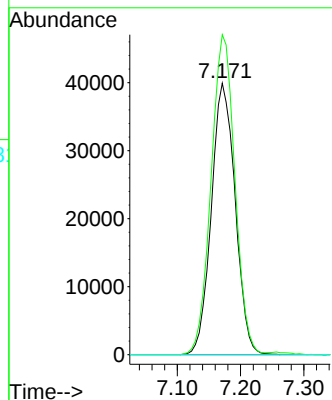
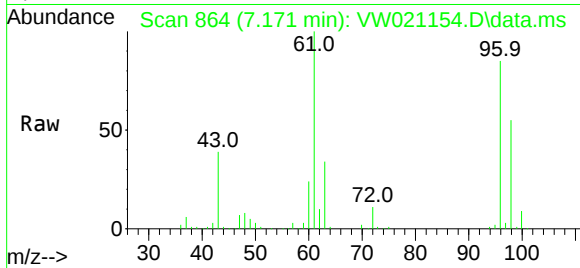




#20
cis-1,2-Dichloroethene
Concen: 56.520 ug/L
RT: 7.171 min Scan# 80
Delta R.T. 0.006 min
Lab File: VW021154.D
Acq: 05 Dec 2021 07:01

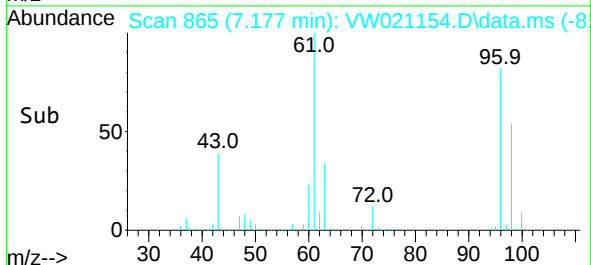
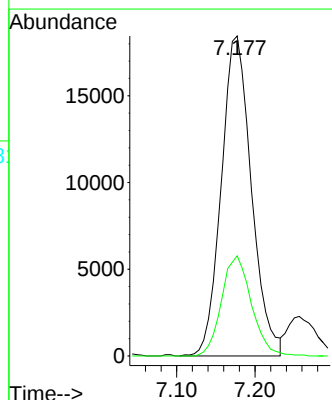
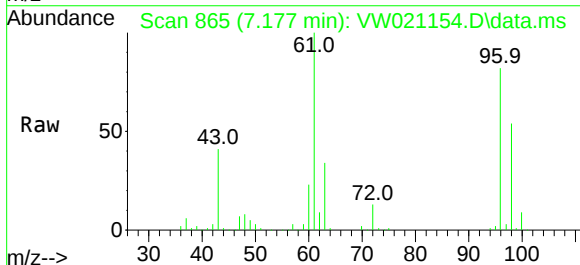
Instrument :
MSVOA_W
ClientSampleId :

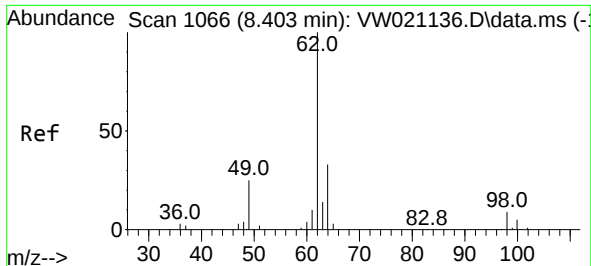
Tgt Ion: 96 Resp: 104311
Ion Ratio Lower Upper
96 100
61 117.8 103.7 192.7
68 0.0 0.0 0.0



#22
2-Butanone
Concen: 97.837 ug/L
RT: 7.177 min Scan# 865
Delta R.T. 0.006 min
Lab File: VW021154.D
Acq: 05 Dec 2021 07:01

Tgt Ion: 43 Resp: 49336
Ion Ratio Lower Upper
43 100
72 31.0 11.8 35.4





#27

1,2-Dichloroethane

Concen: 9.163 ug/L

RT: 8.403 min Scan# 1066

Delta R.T. -0.000 min

Lab File: VW021154.D

Acq: 05 Dec 2021 07:01

Instrument :

MSVOA_W

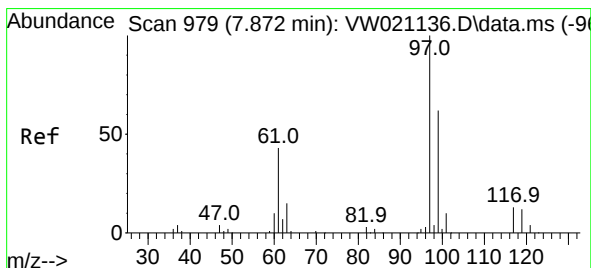
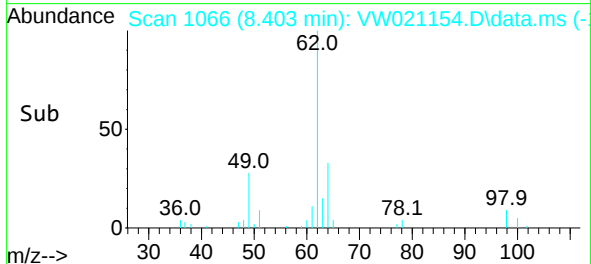
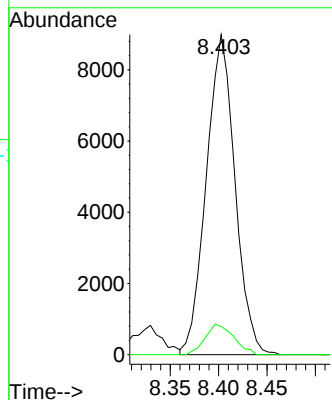
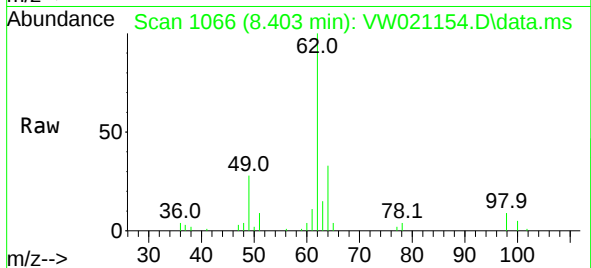
ClientSampleId :

Tgt Ion: 62 Resp: 18561

Ion Ratio Lower Upper

62 100

98 8.8 6.5 9.7



#30

1,1,1-Trichloroethane

Concen: 1.513 ug/L

RT: 7.878 min Scan# 980

Delta R.T. 0.006 min

Lab File: VW021154.D

Acq: 05 Dec 2021 07:01

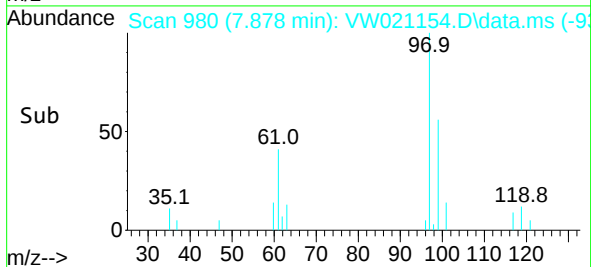
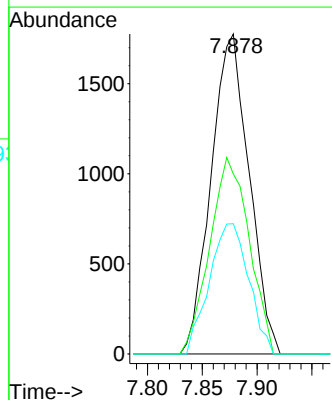
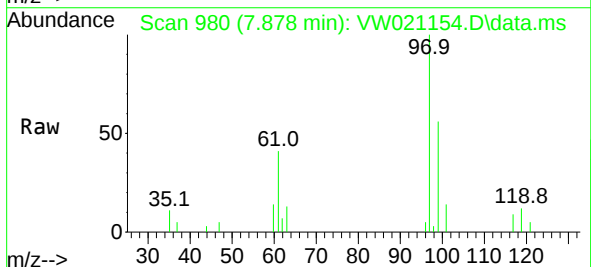
Tgt Ion: 97 Resp: 4283

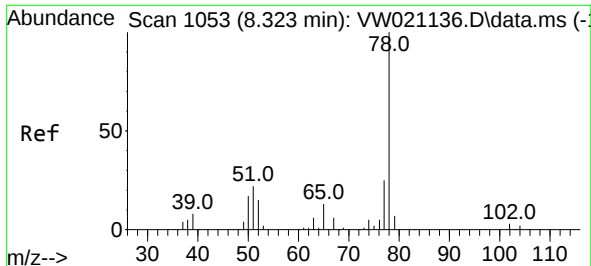
Ion Ratio Lower Upper

97 100

99 63.7 51.6 77.4

61 42.1 40.9 61.3

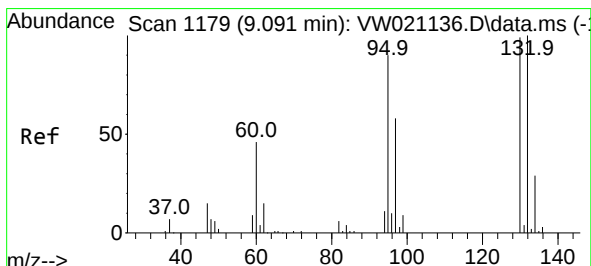
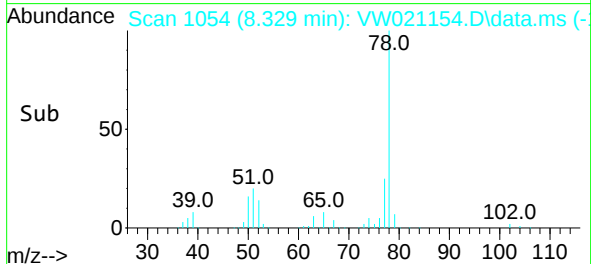
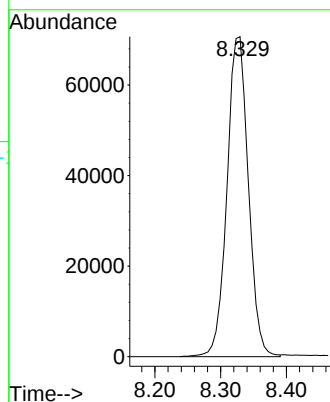
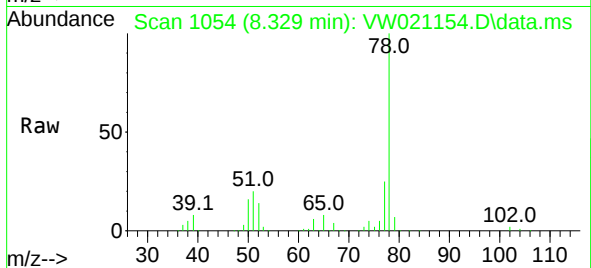




#33
Benzene
Concen: 23.129 ug/L
RT: 8.329 min Scan# 1054
Delta R.T. 0.006 min
Lab File: VW021154.D
Acq: 05 Dec 2021 07:01

Instrument :
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ClientSampleId :

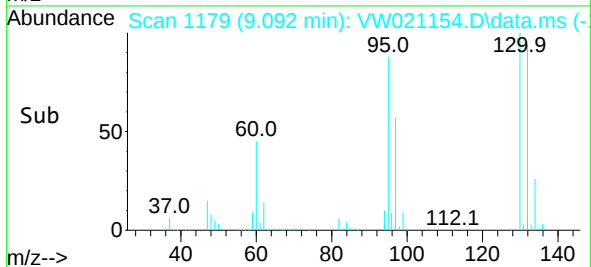
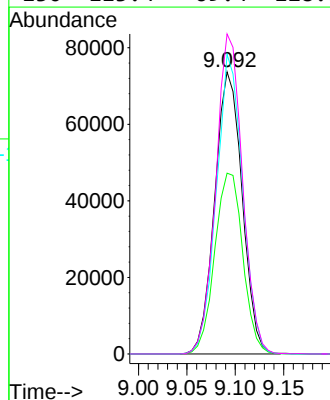
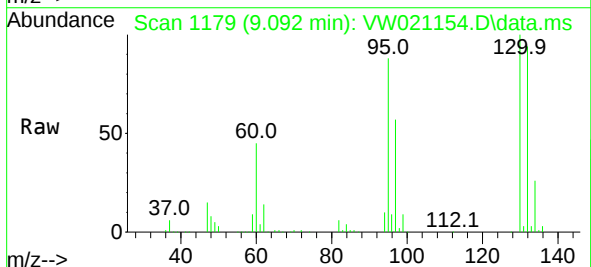
Tgt Ion: 78 Resp: 159687

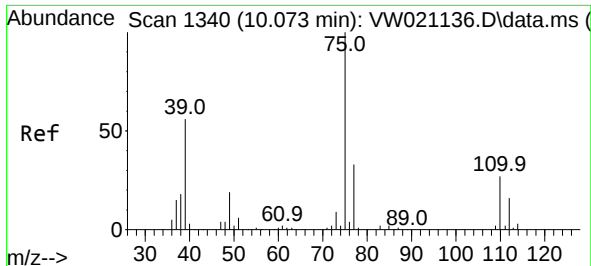


#34
Trichloroethene
Concen: 76.282 ug/L
RT: 9.092 min Scan# 1179
Delta R.T. -0.000 min
Lab File: VW021154.D
Acq: 05 Dec 2021 07:01

Tgt Ion: 95 Resp: 145298

Ion	Ratio	Lower	Upper
95	100		
97	64.1	47.0	87.2
132	106.2	65.5	121.6
130	113.4	69.4	128.8

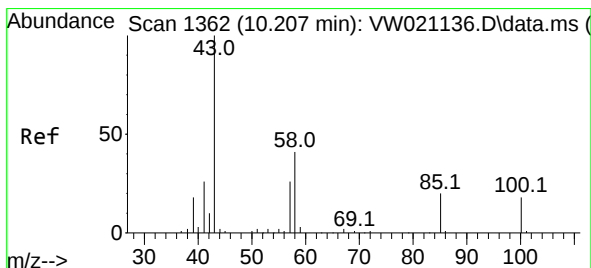
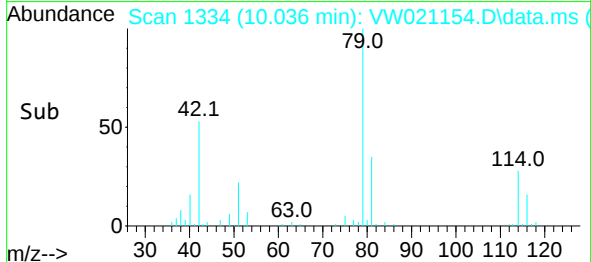
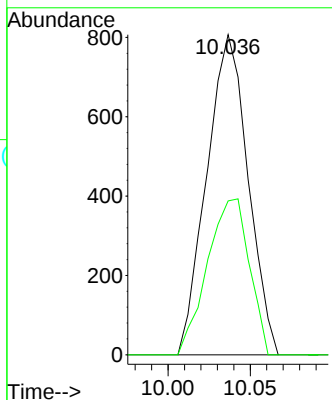
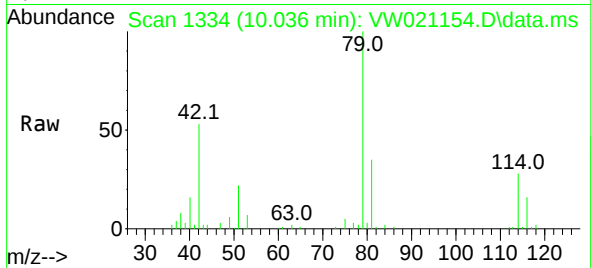




#39
 cis-1,3-Dichloropropene
 Concen: 0.559 ug/L
 RT: 10.036 min Scan# 11
 Delta R.T. -0.037 min
 Lab File: VW021154.D
 Acq: 05 Dec 2021 07:01

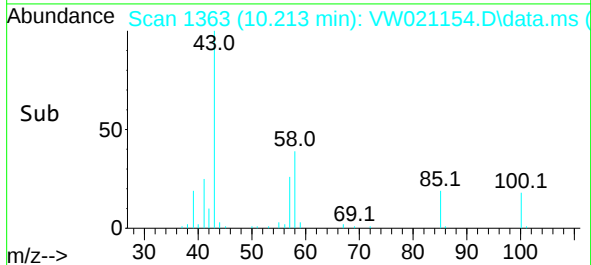
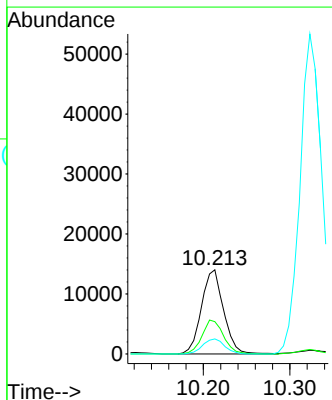
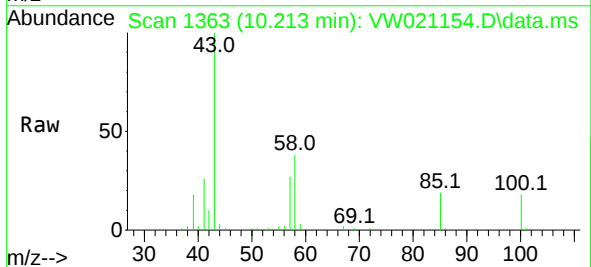
Instrument :
 MSVOA_W
 ClientSampleId :

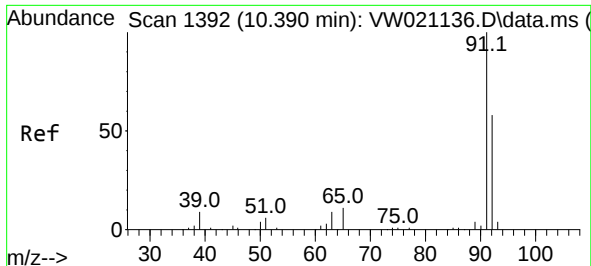
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 Ion Ratio Lower Upper
 75 100
 77 48.1 21.8 40.6#



#40
 4-Methyl-2-pentanone
 Concen: 23.444 ug/L
 RT: 10.213 min Scan# 1363
 Delta R.T. 0.006 min
 Lab File: VW021154.D
 Acq: 05 Dec 2021 07:01

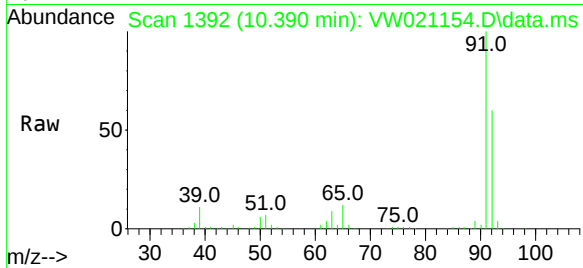
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 Ion Ratio Lower Upper
 43 100
 58 39.1 28.8 43.2
 100 17.5 10.0 15.0#



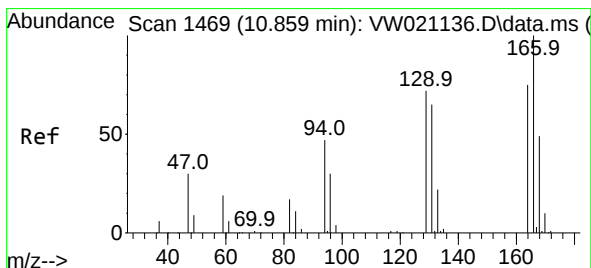
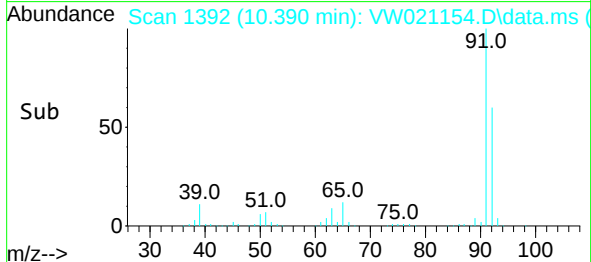
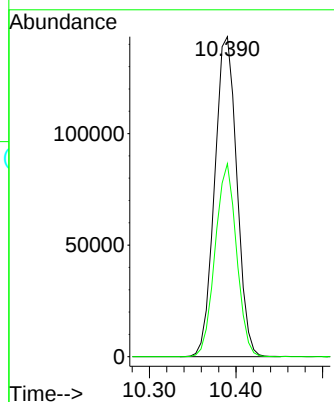


#42
Toluene
Concen: 32.364 ug/L
RT: 10.390 min Scan# 11
Delta R.T. -0.000 min
Lab File: VW021154.D
Acq: 05 Dec 2021 07:01

Instrument :
MSVOA_W
ClientSampleId :

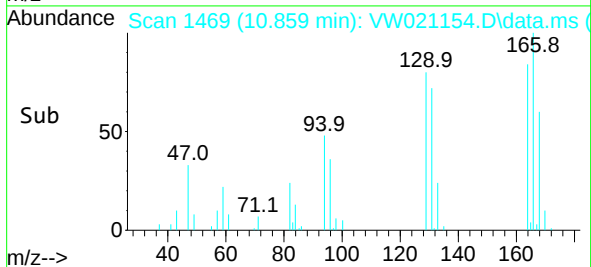
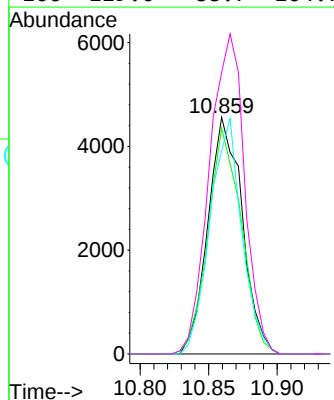
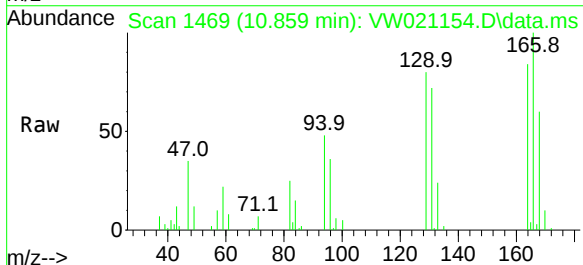


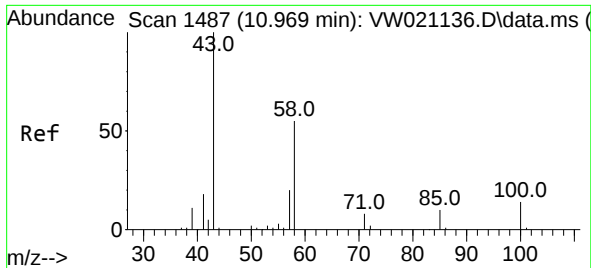
Tgt Ion: 91 Resp: 255216
Ion Ratio Lower Upper
91 100
92 60.3 41.7 77.5



#46
Tetrachloroethene
Concen: 4.534 ug/L
RT: 10.859 min Scan# 1469
Delta R.T. -0.006 min
Lab File: VW021154.D
Acq: 05 Dec 2021 07:01

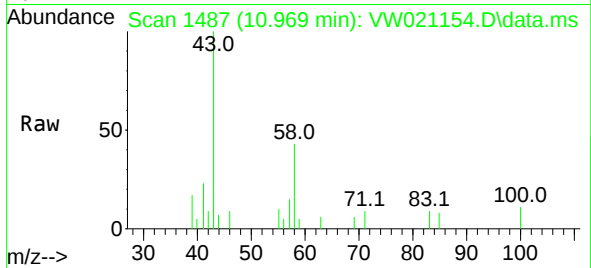
Tgt Ion: 164 Resp: 7908
Ion Ratio Lower Upper
164 100
129 95.4 65.5 121.7
131 87.6 59.7 110.9
166 119.0 88.7 164.7



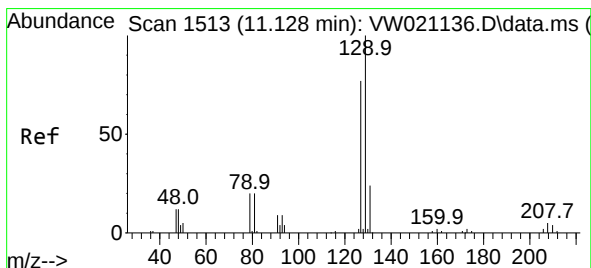
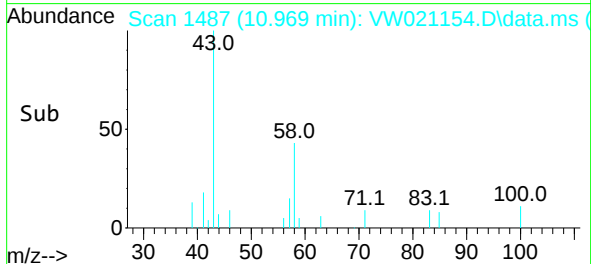
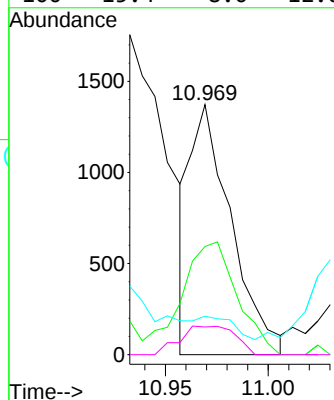


#48
2-Hexanone
Concen: 2.485 ug/L
RT: 10.969 min Scan# 1487
Delta R.T. -0.000 min
Lab File: VW021154.D
Acq: 05 Dec 2021 07:01

Instrument :
MSVOA_W
ClientSampleId :

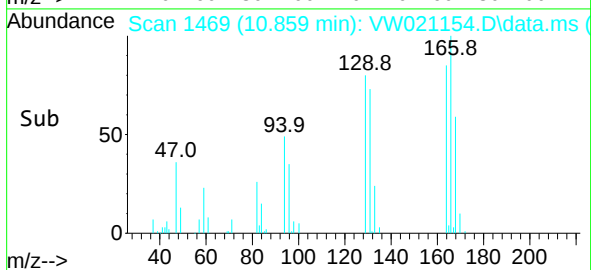
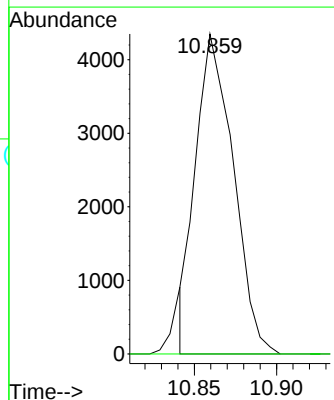
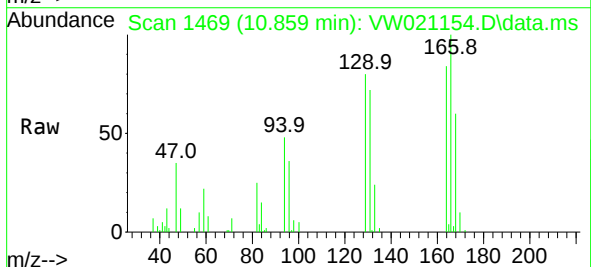


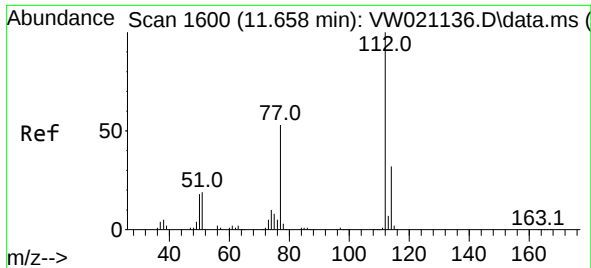
Tgt Ion: 43 Resp: 1906
Ion Ratio Lower Upper
43 100
58 61.2 40.2 60.2#
57 0.0 14.3 21.5#
100 15.4 8.0 12.0#



#49
Dibromochloromethane
Concen: 4.233 ug/L
RT: 10.859 min Scan# 1469
Delta R.T. -0.268 min
Lab File: VW021154.D
Acq: 05 Dec 2021 07:01

Tgt Ion: 129 Resp: 6921
Ion Ratio Lower Upper
129 100
127 0.0 55.7 103.5#

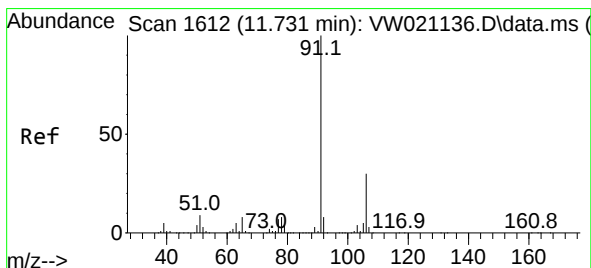
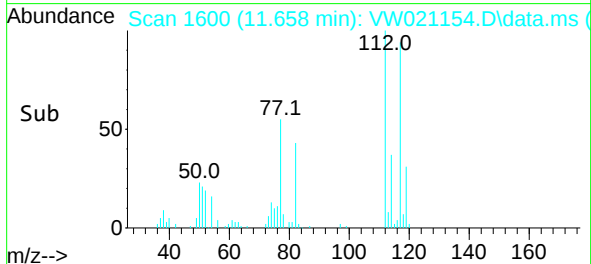
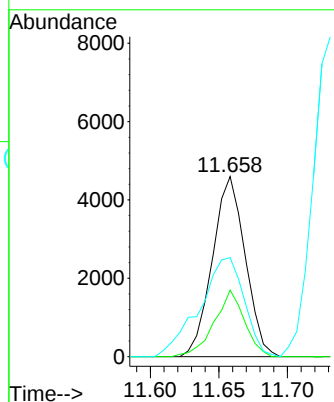
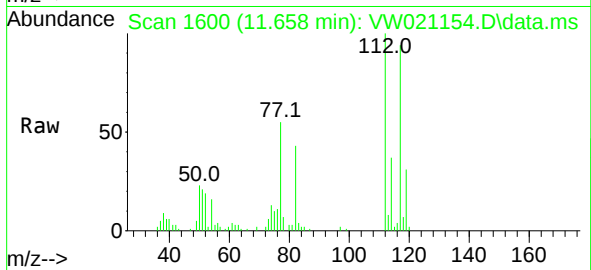




#51
Chlorobenzene
Concen: 1.451 ug/L
RT: 11.658 min Scan# 1160
Delta R.T. -0.000 min
Lab File: VW021154.D
Acq: 05 Dec 2021 07:01

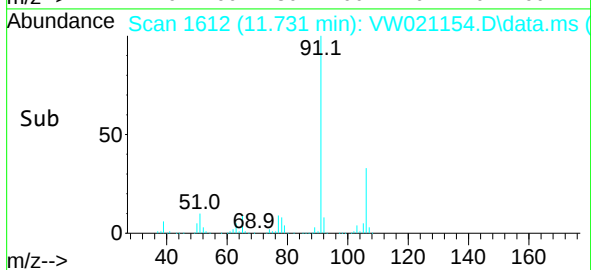
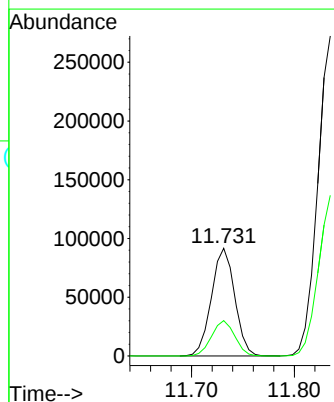
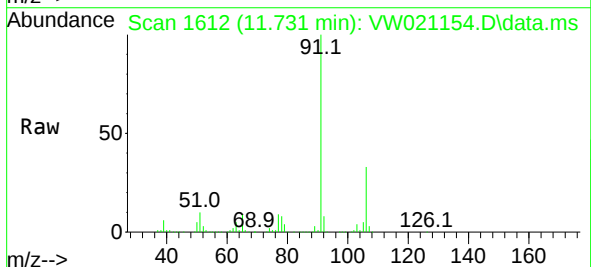
Instrument :
MSVOA_W
ClientSampleId :

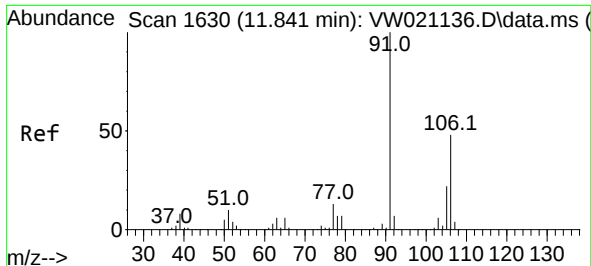
Tgt Ion:112	Resp:	7648
Ion	Ratio	Lower Upper
112	100	
114	36.9	22.4 41.6
77	54.9	50.2 75.4



#52
Ethylbenzene
Concen: 16.230 ug/L
RT: 11.731 min Scan# 1612
Delta R.T. -0.000 min
Lab File: VW021154.D
Acq: 05 Dec 2021 07:01

Tgt Ion: 91	Resp:	144081
Ion	Ratio	Lower Upper
91	100	
106	32.9	21.5 39.9

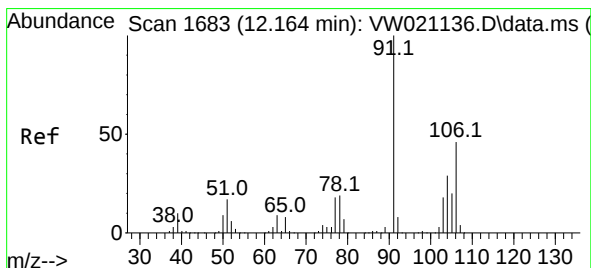
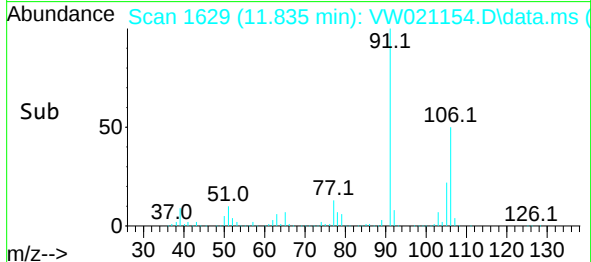
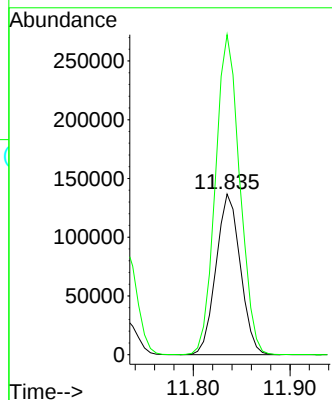
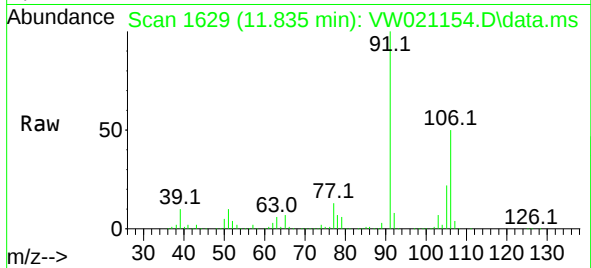




#53
m,p-Xylene
Concen: 64.928 ug/L
RT: 11.835 min Scan# 1629
Delta R.T. -0.006 min
Lab File: VW021154.D
Acq: 05 Dec 2021 07:01

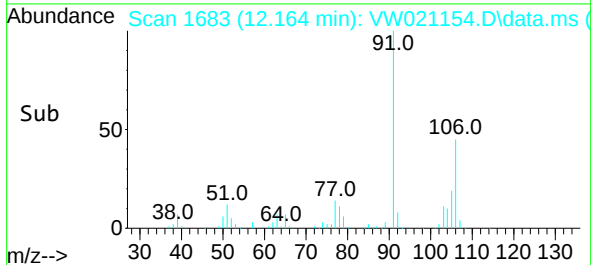
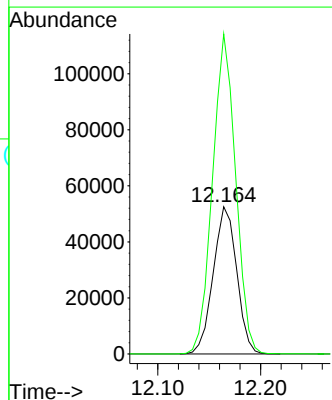
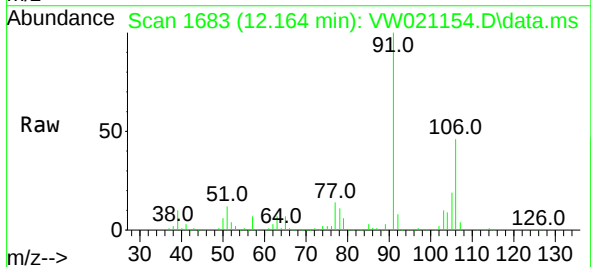
Instrument :
MSVOA_W
ClientSampleId :

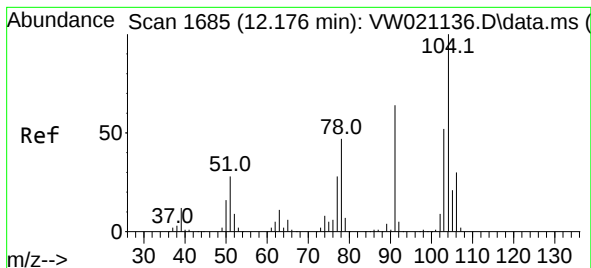
Tgt Ion:106 Resp: 238451
Ion Ratio Lower Upper
106 100
91 199.3 149.9 278.3



#54
o-Xylene
Concen: 24.071 ug/L
RT: 12.164 min Scan# 1683
Delta R.T. -0.000 min
Lab File: VW021154.D
Acq: 05 Dec 2021 07:01

Tgt Ion:106 Resp: 83348
Ion Ratio Lower Upper
106 100
91 217.3 153.6 285.3





#55

Styrene

Concen: 7.356 ug/L

RT: 12.176 min Scan# 1

Delta R.T. -0.006 min

Lab File: VW021154.D

Acq: 05 Dec 2021 07:01

Instrument :

MSVOA_W

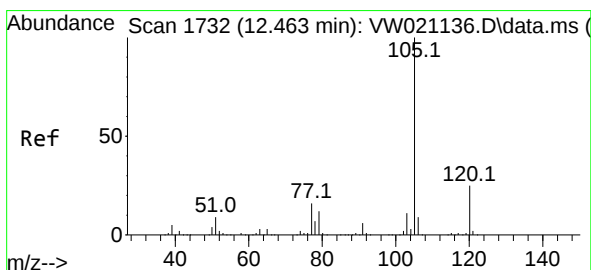
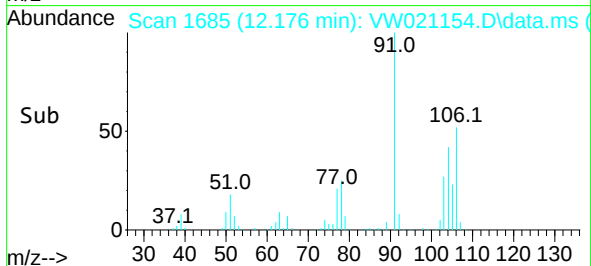
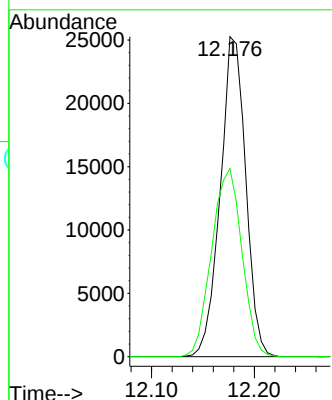
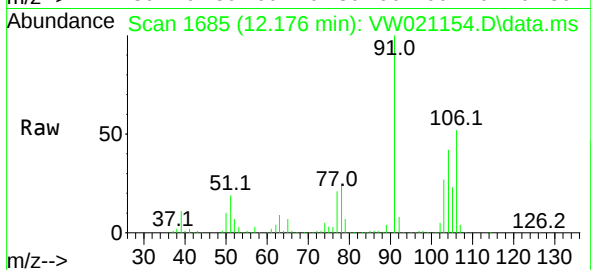
ClientSampleId :

Tgt Ion:104 Resp: 43395

Ion Ratio Lower Upper

104 100

78 58.8 34.4 64.0



#60

Isopropylbenzene

Concen: 5.533 ug/L

RT: 12.463 min Scan# 1732

Delta R.T. -0.000 min

Lab File: VW021154.D

Acq: 05 Dec 2021 07:01

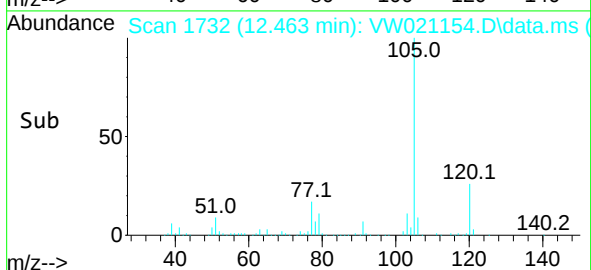
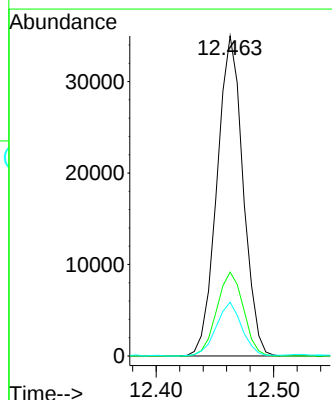
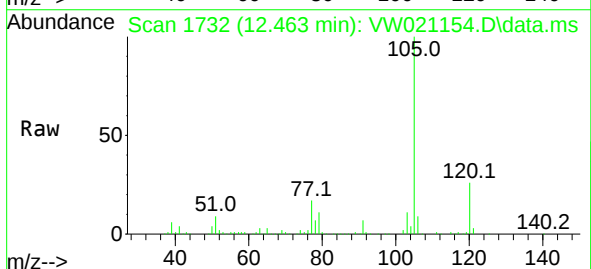
Tgt Ion:105 Resp: 54016

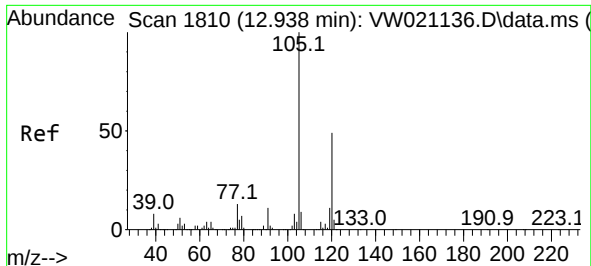
Ion Ratio Lower Upper

105 100

120 26.7 20.1 30.1

77 16.5 13.8 20.8





#62

1,3,5-Trimethylbenzene

Concen: 7.785 ug/L

RT: 12.938 min Scan# 1810

Delta R.T. -0.006 min

Lab File: VW021154.D

Acq: 05 Dec 2021 07:01

Instrument :

MSVOA_W

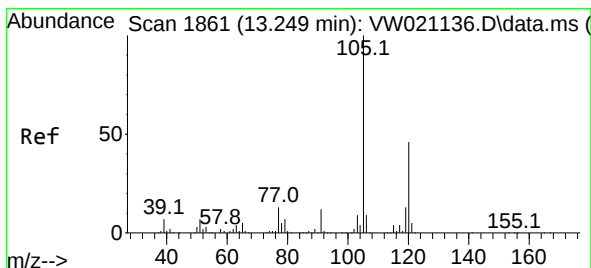
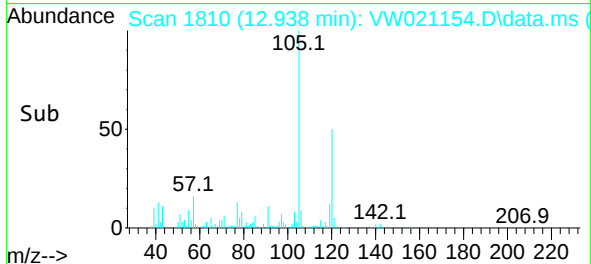
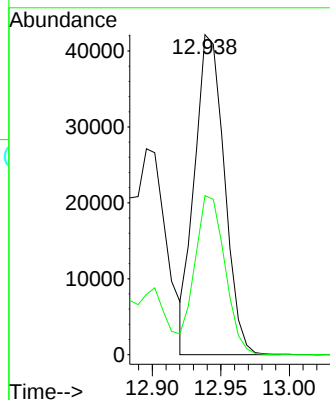
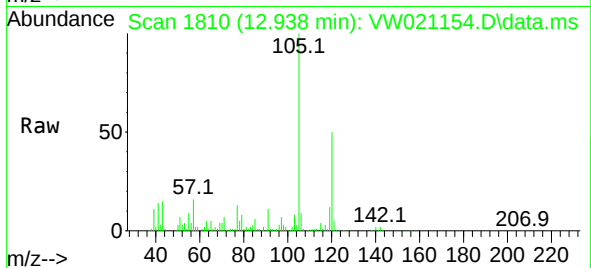
ClientSampleId :

Tgt Ion:105 Resp: 63643

Ion Ratio Lower Upper

105 100

120 50.1 37.4 56.2



#63

1,2,4-Trimethylbenzene

Concen: 26.818 ug/L

RT: 13.249 min Scan# 1861

Delta R.T. -0.000 min

Lab File: VW021154.D

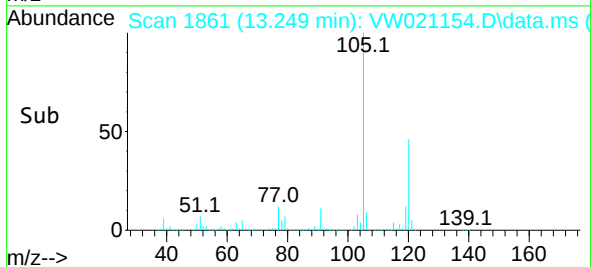
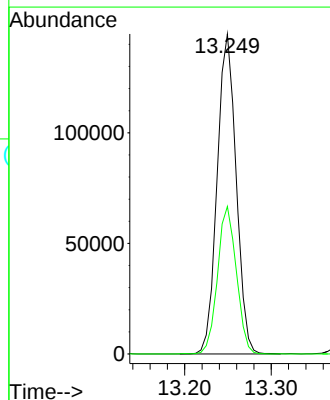
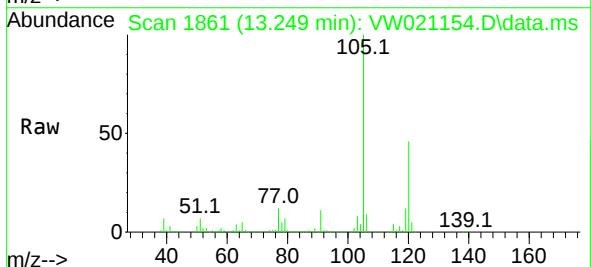
Acq: 05 Dec 2021 07:01

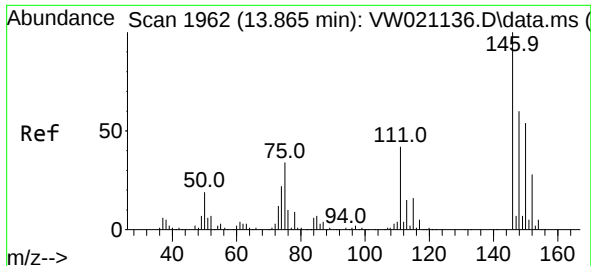
Tgt Ion:105 Resp: 220507

Ion Ratio Lower Upper

105 100

120 45.6 35.0 52.6





#67

1,2-Dichlorobenzene

Concen: 3.392 ug/L

RT: 13.865 min Scan# 1962

Delta R.T. -0.006 min

Lab File: VW021154.D

Acq: 05 Dec 2021 07:01

Instrument :

MSVOA_W

ClientSampleId :

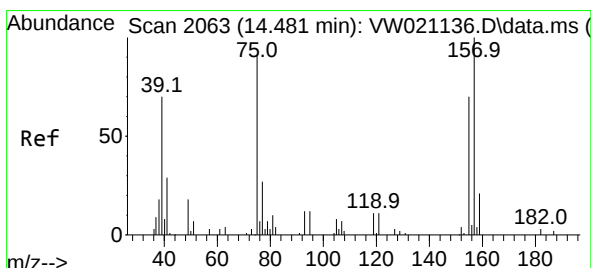
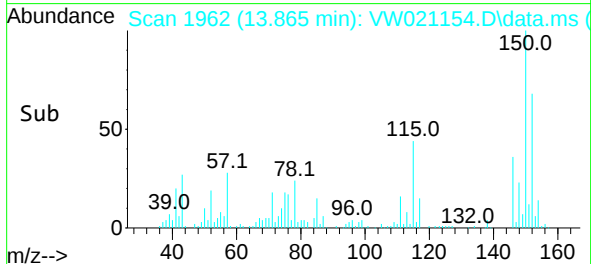
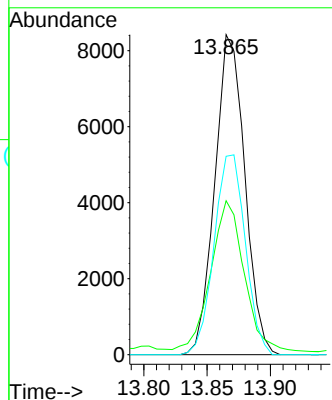
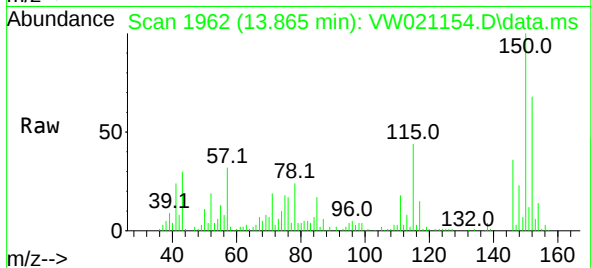
Tgt Ion:146 Resp: 13883

Ion Ratio Lower Upper

146 100

111 48.1 33.1 49.7

148 62.0 47.4 71.2



#68

1,2-Dibromo-3-chloropropane

Concen: 5.735 ug/L

RT: 14.487 min Scan# 2064

Delta R.T. 0.006 min

Lab File: VW021154.D

Acq: 05 Dec 2021 07:01

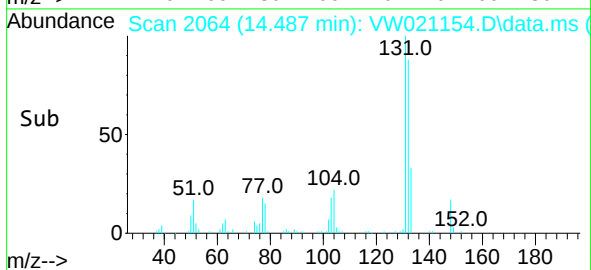
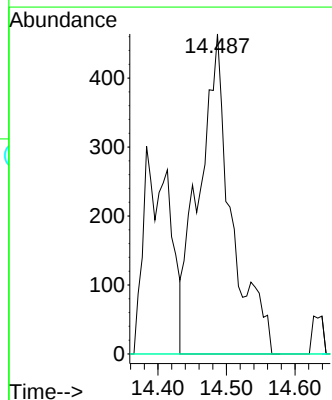
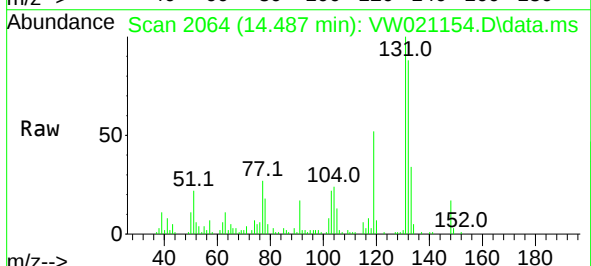
Tgt Ion: 75 Resp: 1524

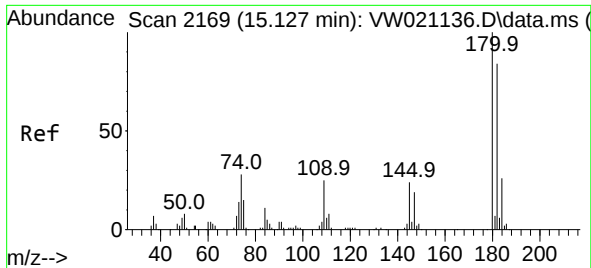
Ion Ratio Lower Upper

75 100

155 0.0 54.2 81.2#

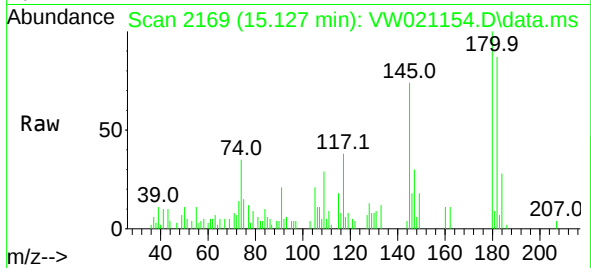
157 0.0 69.4 104.2#



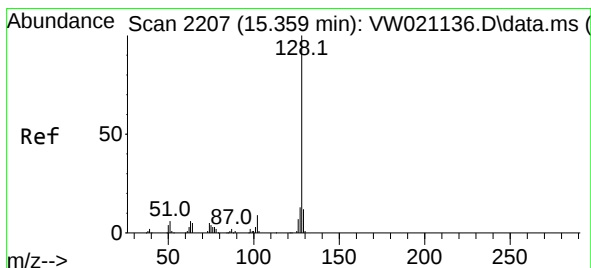
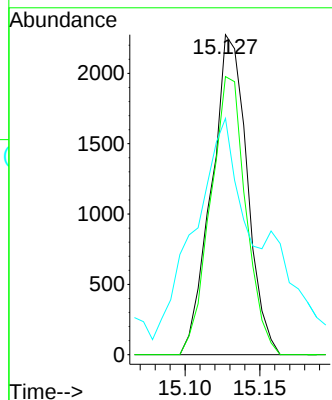
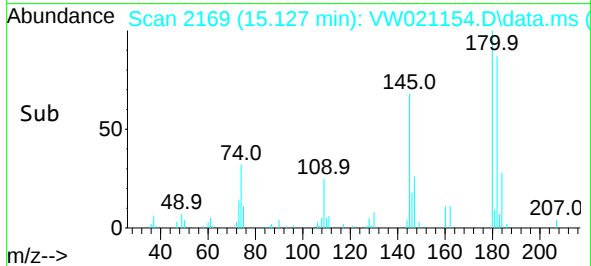


#70
1,2,4-trichlorobenzene
Concen: 1.356 ug/L
RT: 15.127 min Scan# 2169
Delta R.T. -0.000 min
Lab File: VW021154.D
Acq: 05 Dec 2021 07:01

Instrument :
MSVOA_W
ClientSampleId :



Tgt Ion:180 Resp: 3763
Ion Ratio Lower Upper
180 100
182 86.2 79.0 118.6
145 99.0 26.0 39.0#



#71
Naphthalene
Concen: 427.128 ug/L
RT: 15.365 min Scan# 2208
Delta R.T. -0.000 min
Lab File: VW021154.D
Acq: 05 Dec 2021 07:01

Tgt Ion:128 Resp: 2204234
Ion Ratio Lower Upper
128 100
127 13.6 10.7 16.1
129 11.0 8.6 12.8

