

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW121721\
 Data File : VW021433.D
 Acq On : 17 Dec 2021 16:06
 Operator : SY/VA
 Sample : M5121-08
 Misc : 5.68g/10.0mL/MSVOA_W/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :

Quant Time: Dec 17 21:17:19 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM120921SMA.M
 Quant Title : SFAM01.0
 QLast Update : Fri Dec 17 00:58:26 2021
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	8.842	114	97022	25.000	ug/L	# 0.00
28) Chlorobenzene-d5	11.628	117	81785	25.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	13.554	152	34756	25.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	2.343	65	36589	20.707	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	82.840%
7) Chloroethane-d5	2.873	69	23176	19.840	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	79.360%
11) 1,1-Dichloroethene-d2	4.007	63	34520	14.653	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	58.600%
21) 2-Butanone-d5	7.080	46	17219	69.130	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	138.260%#
24) Chloroform-d	7.647	84	58055	21.472	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	85.880%
26) 1,2-Dichloroethane-d4	8.305	65	36656	25.487	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	101.960%
32) Benzene-d6	8.269	84	110096	24.559	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	98.240%
36) 1,2-Dichloropropane-d6	9.275	67	32039	26.649	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	106.600%
41) Toluene-d8	10.323	98	95506	20.851	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	83.400%
43) trans-1,3-Dichloroprop...	10.579	79	12893	23.290	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	93.160%
47) 2-Hexanone-d5	10.921	63	14182	79.772	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	159.540%#
56) 1,1,2,2-Tetrachloroeth...	12.689	84	22422	21.695	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	86.760%
66) 1,2-Dichlorobenzene-d4	13.554	152	34756	25.803	ug/L	-0.30
Spiked Amount	25.000	Range	75 - 120	Recovery	=	103.200%
Target Compounds						
					Qvalue	
13) Acetone	4.135	43	12228	54.762	ug/L	95
22) 2-Butanone	7.183	43	3159	10.833	ug/L	98
27) 1,2-Dichloroethane	8.275	62	776	0.517	ug/L	# 77
29) Cyclohexane	7.921	56	1793	1.101	ug/L	# 44
34) Trichloroethene	8.836	95	2842	2.272	ug/L	# 5
35) Methylcyclohexane	9.329	83	13319	6.456	ug/L	92
39) cis-1,3-Dichloropropene	10.037	75	1093	0.698	ug/L	# 60
42) Toluene	10.390	91	10442	2.004	ug/L	95
45) 1,1,2-Trichloroethane	10.756	97	1771	2.177	ug/L	# 21
46) Tetrachloroethene	10.860	164	2254	1.897	ug/L	86
48) 2-Hexanone	10.927	43	4444	11.317	ug/L	# 45
49) Dibromochloromethane	10.860	129	1979	1.974	ug/L	# 10
51) Chlorobenzene	11.652	112	3979	1.141	ug/L	94
52) Ethylbenzene	11.731	91	69810	11.724	ug/L	97
53) m,p-Xylene	11.841	106	25788	10.736	ug/L	93
54) o-Xylene	12.164	106	24087	10.566	ug/L	90
55) Styrene	12.176	104	4095	1.055	ug/L	# 49
57) 1,1,2,2-Tetrachloroethane	12.682	83	2384	2.557	ug/L	# 88
60) Isopropylbenzene	12.463	105	90006	19.058	ug/L	96

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

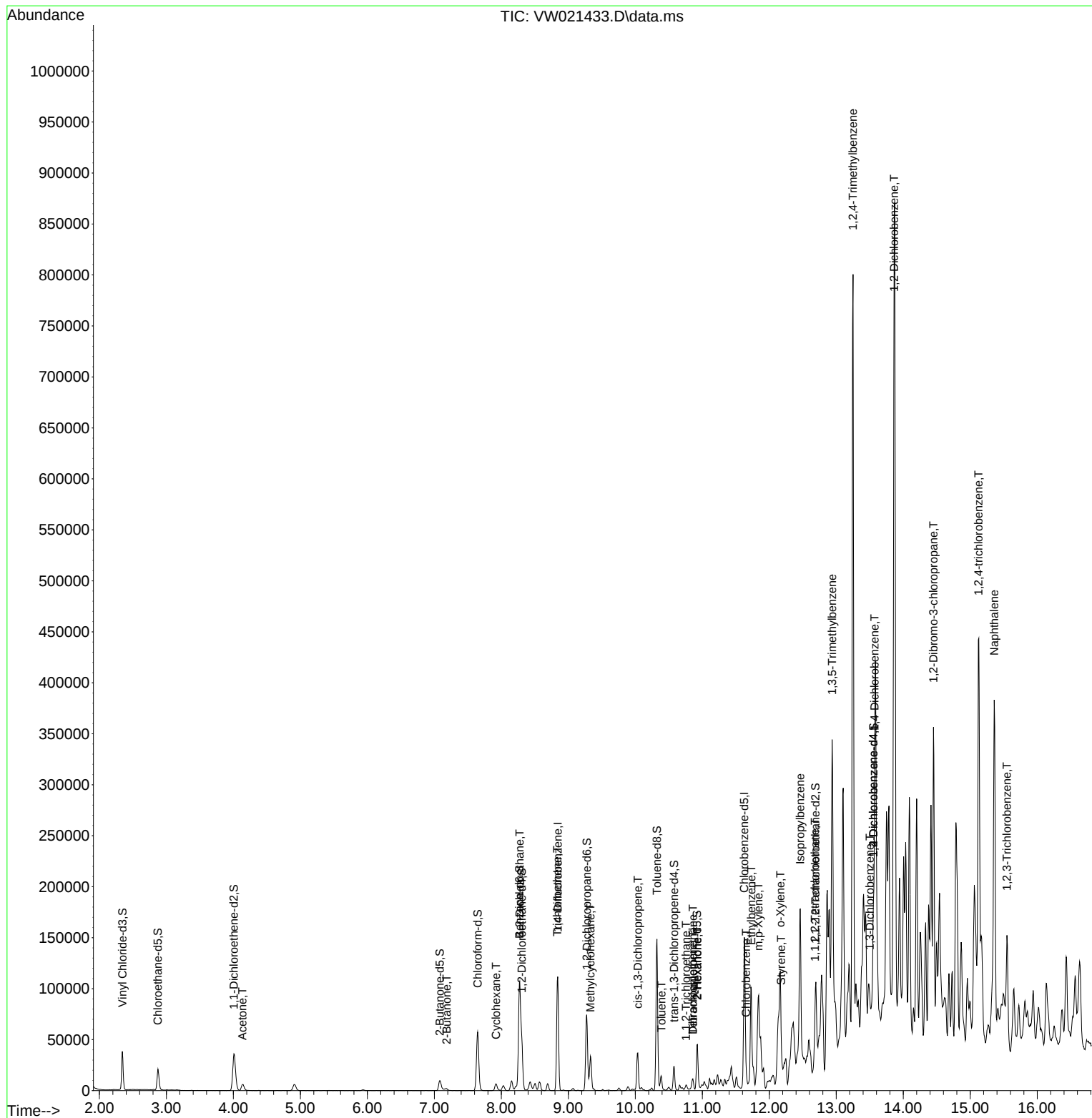
62) 1,3,5-Trimethylbenzene	12.938	105	111887	27.841	ug/L	94
63) 1,2,4-Trimethylbenzene	13.249	105	406067	102.429	ug/L	95
64) 1,3-Dichlorobenzene	13.499	146	1430	0.642	ug/L #	1
65) 1,4-Dichlorobenzene	13.573	146	10935	4.941	ug/L #	60
67) 1,2-Dichlorobenzene	13.865	146	237887	121.300	ug/L	94
68) 1,2-Dibromo-3-chloropr...	14.450	75	1873	17.952	ug/L #	10
70) 1,2,4-trichlorobenzene	15.121	180	132530	98.966	ug/L #	92
71) Naphthalene	15.359	128	305942	140.621	ug/L	100
72) 1,2,3-Trichlorobenzene	15.548	180	34915	31.548	ug/L #	76

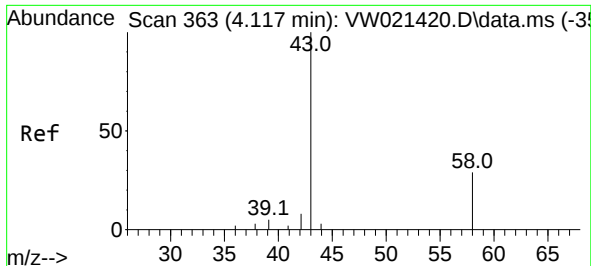
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#13

Acetone

Concen: 54.762 ug/L

RT: 4.135 min Scan# 3

Delta R.T. 0.006 min

Lab File: VW021433.D

Acq: 17 Dec 2021 16:06

Instrument :

MSVOA_W

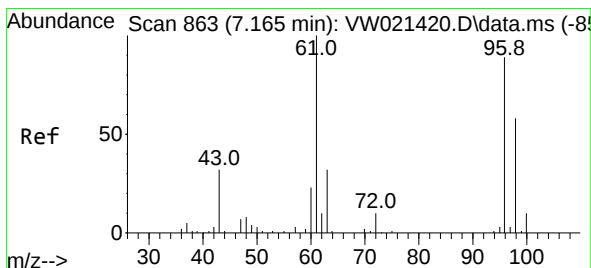
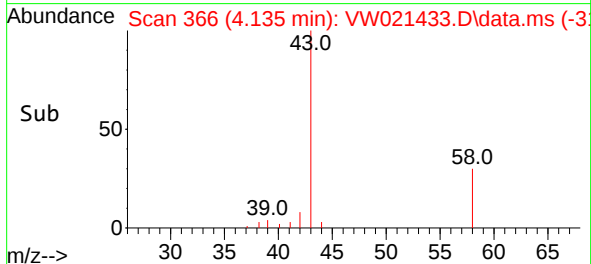
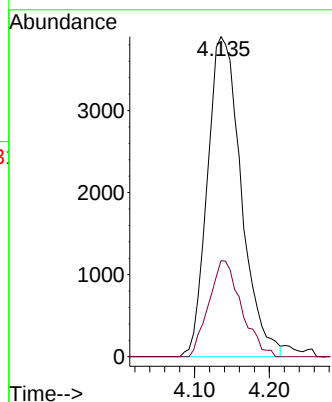
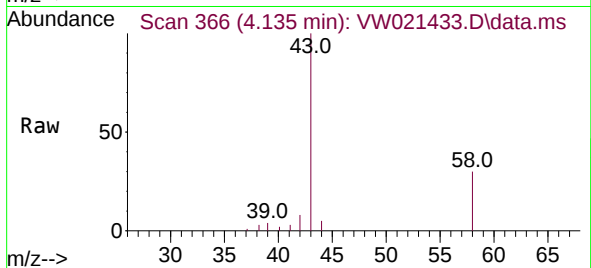
ClientSampleId :

Tgt Ion: 43 Resp: 12228

Ion Ratio Lower Upper

43 100

58 28.7 0.0 52.8



#22

2-Butanone

Concen: 10.833 ug/L

RT: 7.183 min Scan# 866

Delta R.T. 0.018 min

Lab File: VW021433.D

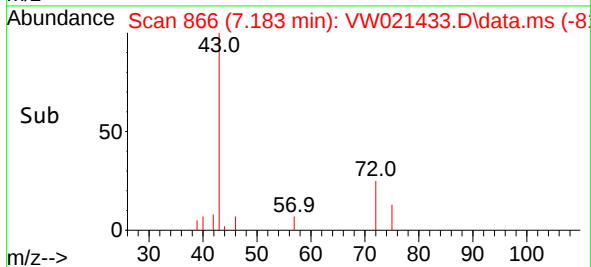
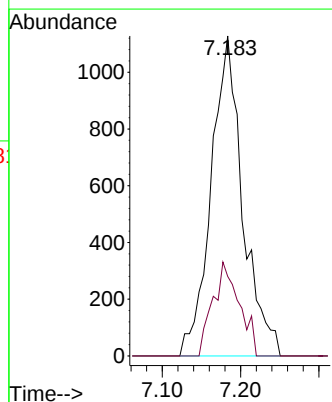
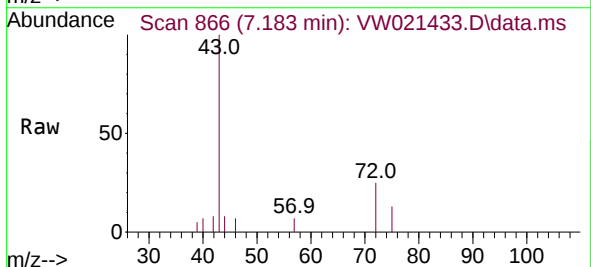
Acq: 17 Dec 2021 16:06

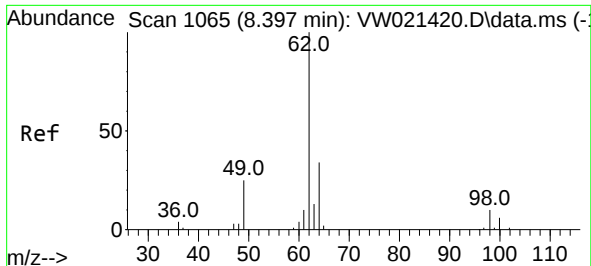
Tgt Ion: 43 Resp: 3159

Ion Ratio Lower Upper

43 100

72 24.5 11.8 35.4





#27

1,2-Dichloroethane

Concen: 0.517 ug/L

RT: 8.275 min Scan# 1045

Delta R.T. -0.122 min

Lab File: VW021433.D

Acq: 17 Dec 2021 16:06

Instrument :

MSVOA_W

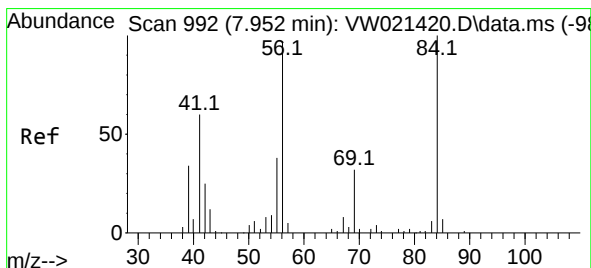
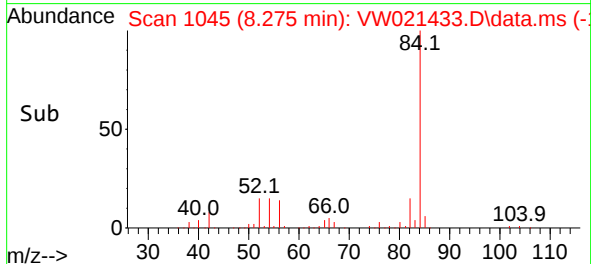
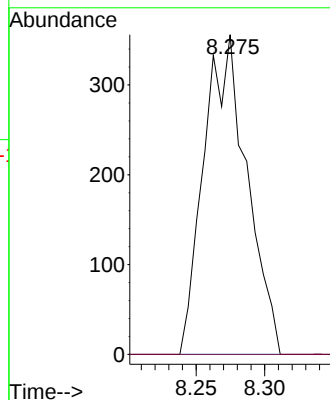
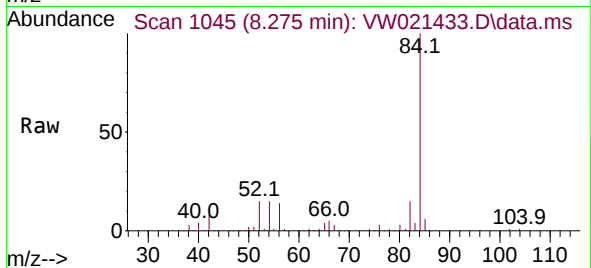
ClientSampleId :

Tgt Ion: 62 Resp: 776

Ion Ratio Lower Upper

62 100

98 0.0 6.5 9.7#



#29

Cyclohexane

Concen: 1.101 ug/L

RT: 7.921 min Scan# 987

Delta R.T. -0.030 min

Lab File: VW021433.D

Acq: 17 Dec 2021 16:06

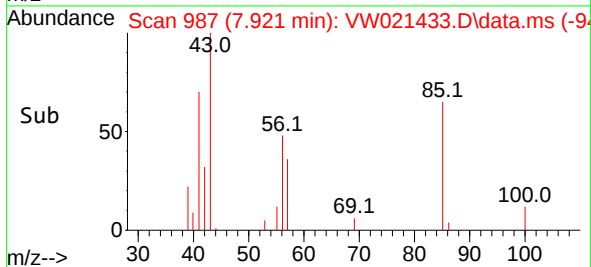
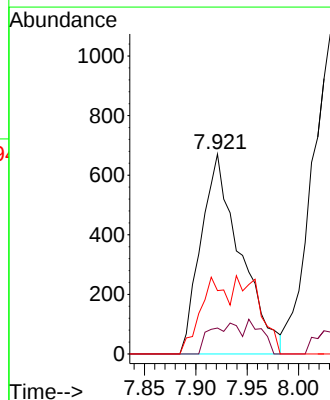
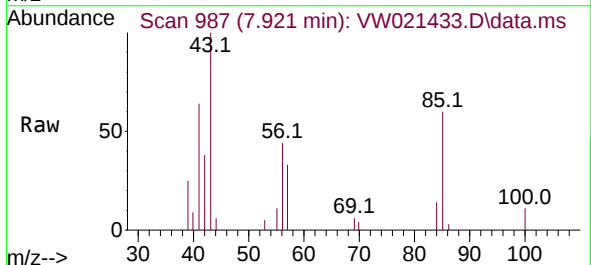
Tgt Ion: 56 Resp: 1793

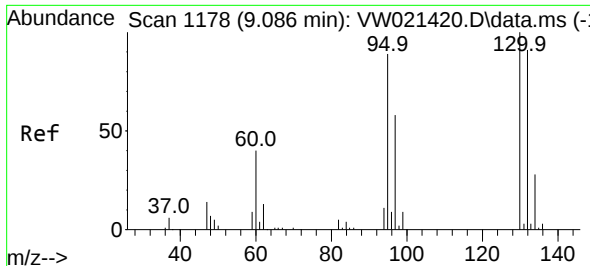
Ion Ratio Lower Upper

56 100

69 6.5 23.5 35.3#

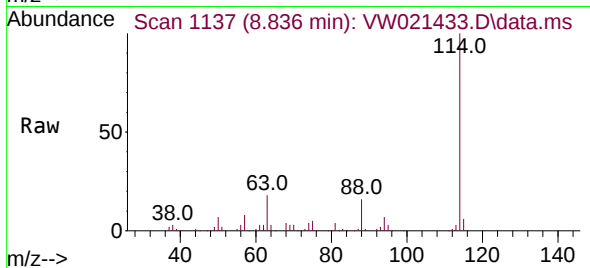
84 26.2 63.4 95.2#





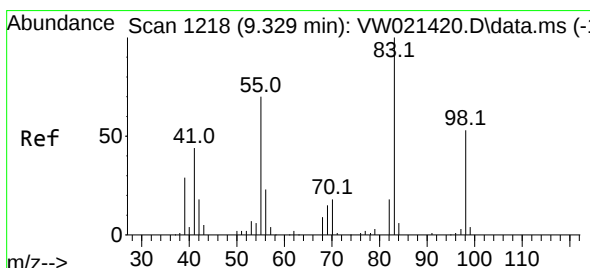
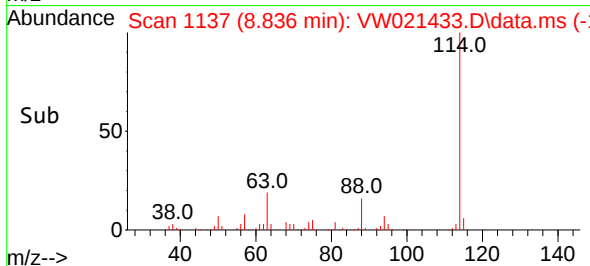
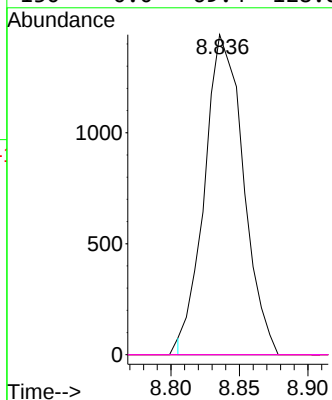
#34
Trichloroethene
Concen: 2.272 ug/L
RT: 8.836 min Scan# 1178
Delta R.T. -0.256 min
Lab File: VW021433.D
Acq: 17 Dec 2021 16:06

Instrument :
MSVOA_W
ClientSampleId :



Tgt Ion: 95 Resp: 2842

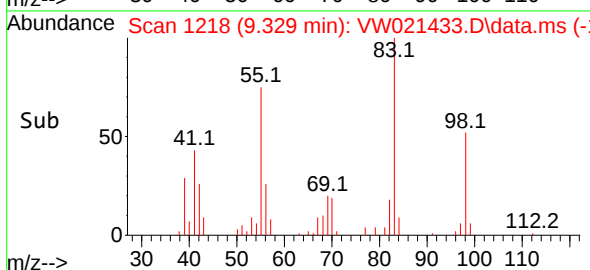
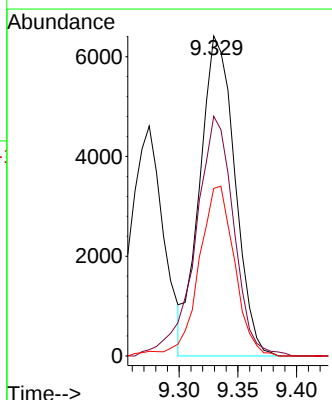
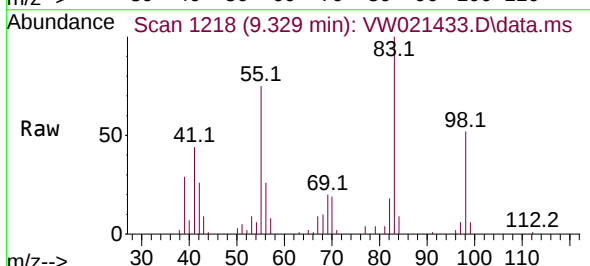
Ion	Ratio	Lower	Upper
95	100		
97	0.0	47.0	87.2#
132	0.0	65.5	121.6#
130	0.0	69.4	128.8#

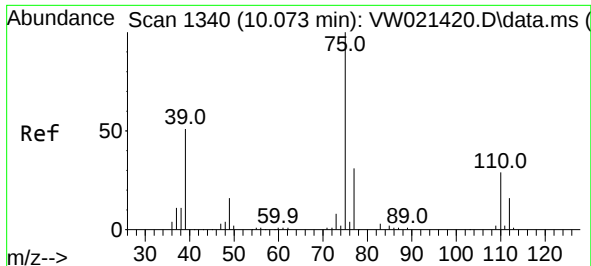


#35
Methylcyclohexane
Concen: 6.456 ug/L
RT: 9.329 min Scan# 1218
Delta R.T. -0.006 min
Lab File: VW021433.D
Acq: 17 Dec 2021 16:06

Tgt Ion: 83 Resp: 13319

Ion	Ratio	Lower	Upper
83	100		
55	81.5	70.8	106.2
98	53.1	37.7	56.5





#39

cis-1,3-Dichloropropene

Concen: 0.698 ug/L

RT: 10.037 min Scan# 11

Delta R.T. -0.030 min

Lab File: VW021433.D

Acq: 17 Dec 2021 16:06

Instrument :

MSVOA_W

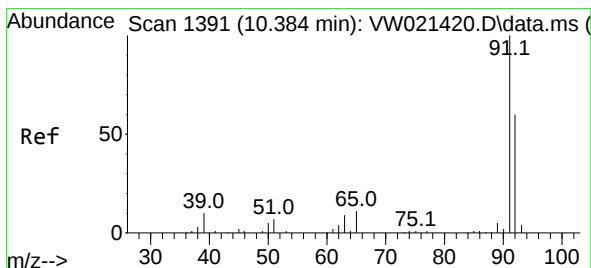
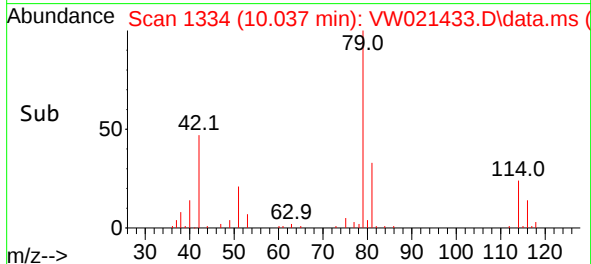
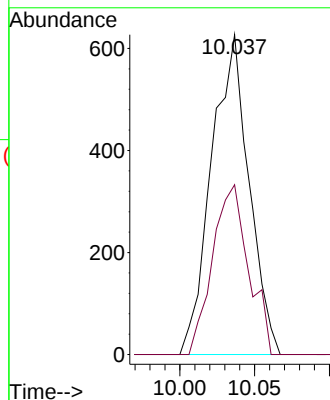
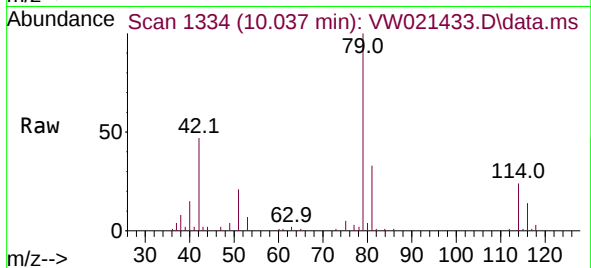
ClientSampleId :

Tgt Ion: 75 Resp: 1093

Ion Ratio Lower Upper

75 100

77 53.1 21.8 40.6#



#42

Toluene

Concen: 2.004 ug/L

RT: 10.390 min Scan# 1392

Delta R.T. 0.006 min

Lab File: VW021433.D

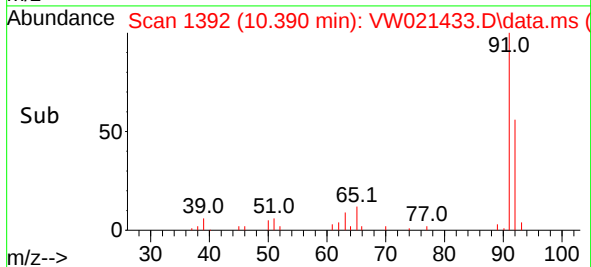
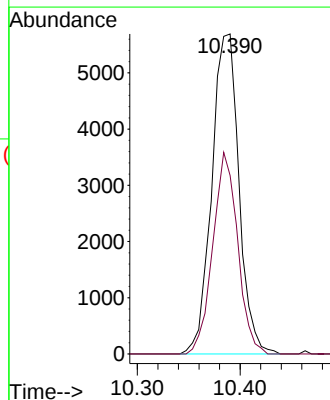
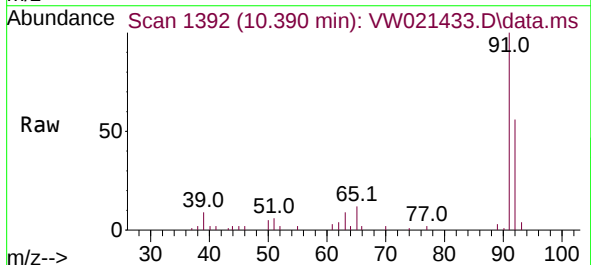
Acq: 17 Dec 2021 16:06

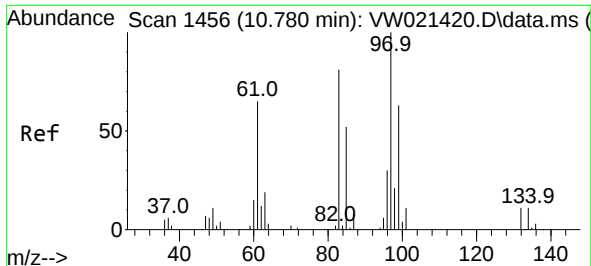
Tgt Ion: 91 Resp: 10442

Ion Ratio Lower Upper

91 100

92 55.7 41.7 77.5





#45

1,1,2-Trichloroethane

Concen: 2.177 ug/L

RT: 10.756 min Scan# 1452

Delta R.T. -0.030 min

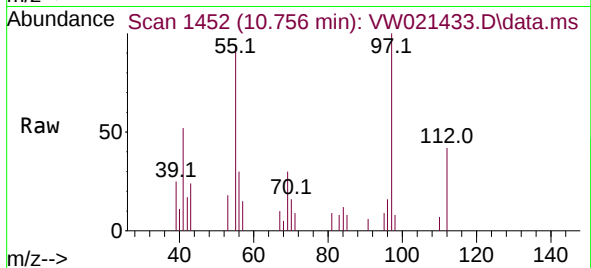
Lab File: VW021433.D

Acq: 17 Dec 2021 16:06

Instrument :

MSVOA_W

ClientSampleId :



Tgt Ion: 97 Resp: 1771

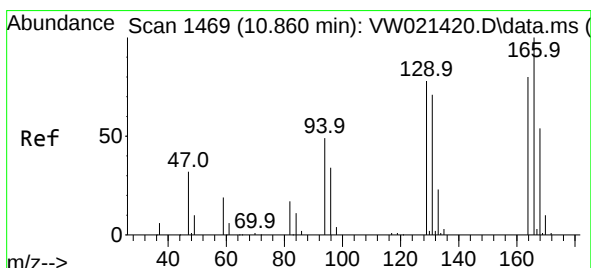
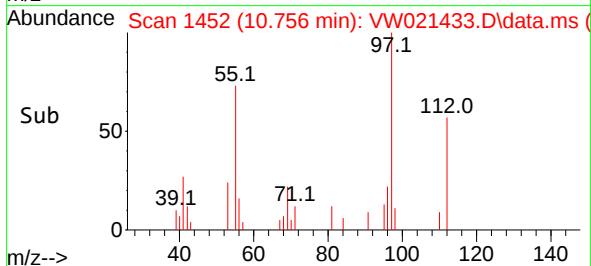
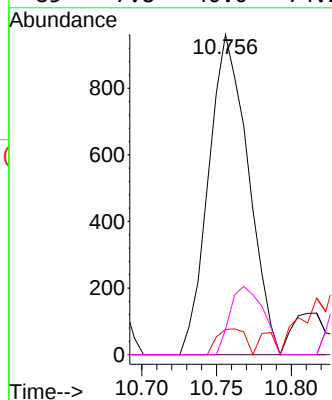
Ion Ratio Lower Upper

97 100

99 0.0 43.0 79.8#

83 7.9 62.6 116.3#

85 7.8 40.0 74.2#



#46

Tetrachloroethene

Concen: 1.897 ug/L

RT: 10.860 min Scan# 1469

Delta R.T. 0.000 min

Lab File: VW021433.D

Acq: 17 Dec 2021 16:06

Tgt Ion:164 Resp: 2254

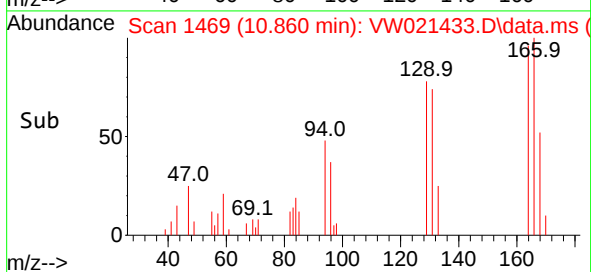
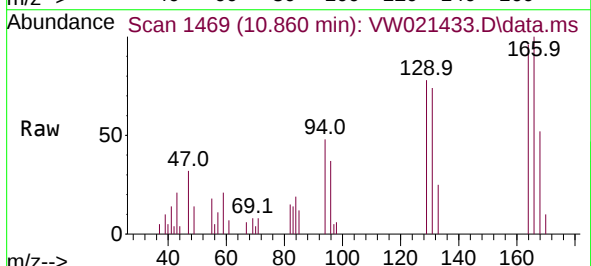
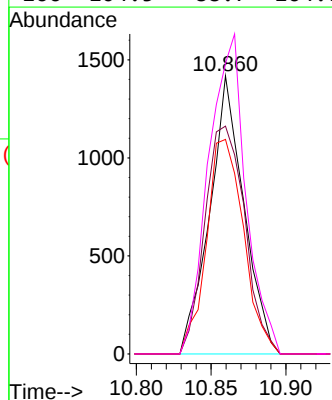
Ion Ratio Lower Upper

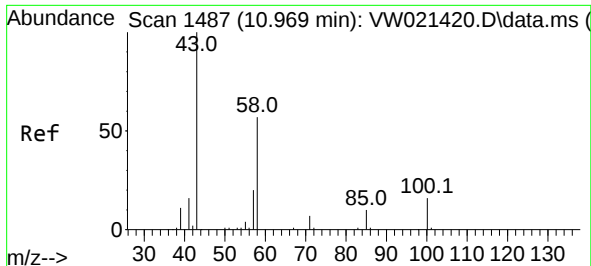
164 100

129 81.9 65.5 121.7

131 77.2 59.7 110.9

166 104.5 88.7 164.7

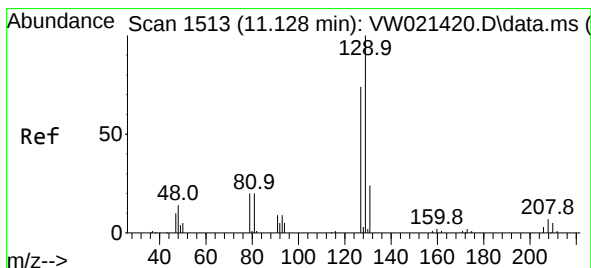
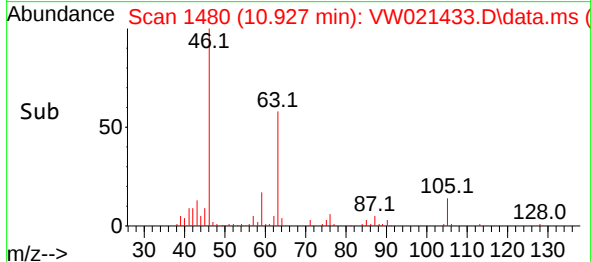
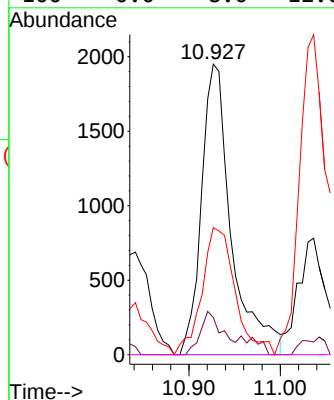
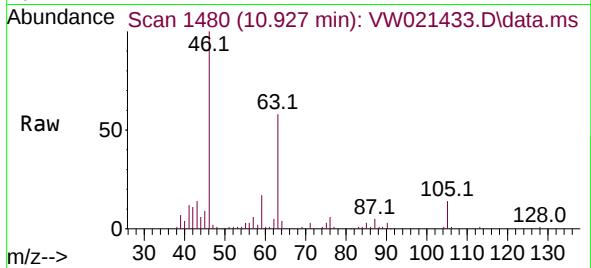




#48
2-Hexanone
Concen: 11.317 ug/L
RT: 10.927 min Scan# 1480
Delta R.T. -0.043 min
Lab File: VW021433.D
Acq: 17 Dec 2021 16:06

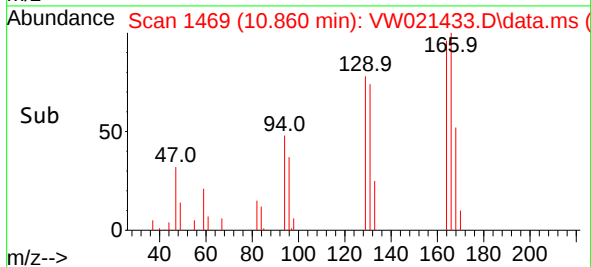
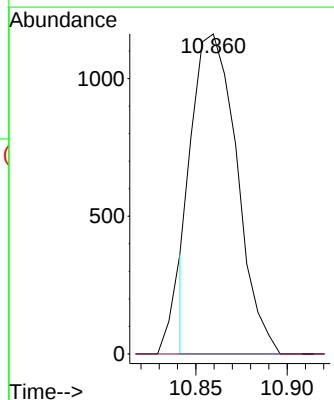
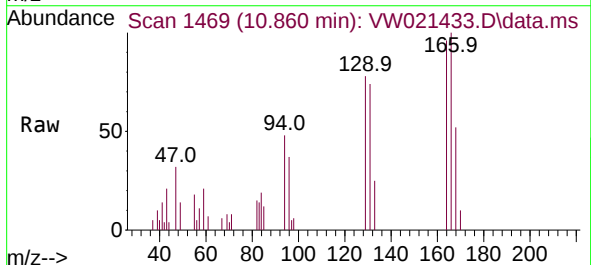
Instrument :
MSVOA_W
ClientSampleId :

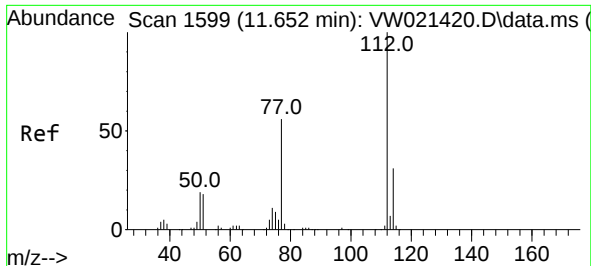
Tgt Ion: 43	Resp: 4444
Ion Ratio	Lower Upper
43 100	
58 11.1	40.2 60.2#
57 47.1	14.3 21.5#
100 0.0	8.0 12.0#



#49
Dibromochloromethane
Concen: 1.974 ug/L
RT: 10.860 min Scan# 1469
Delta R.T. -0.268 min
Lab File: VW021433.D
Acq: 17 Dec 2021 16:06

Tgt Ion:129	Resp:	1979	
Ion	Ratio	Lower	Upper
129	100		
127	0.0	55.7	103.5#

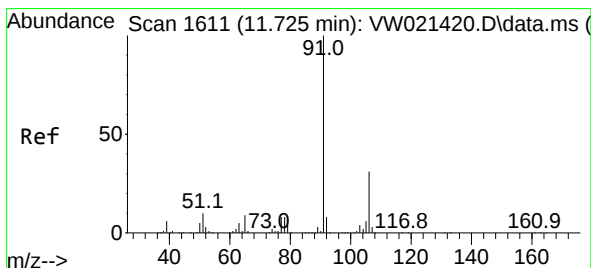
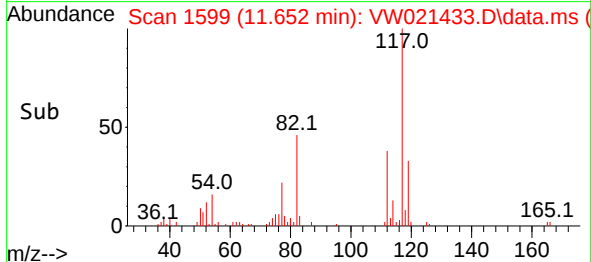
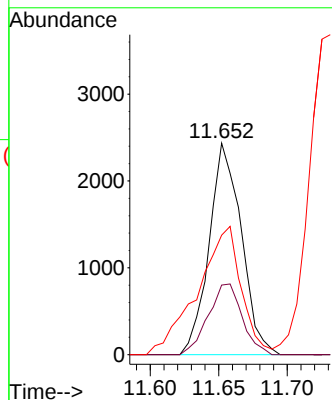
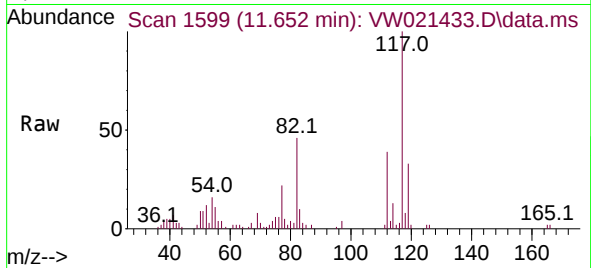




#51
Chlorobenzene
Concen: 1.141 ug/L
RT: 11.652 min Scan# 11
Delta R.T. 0.000 min
Lab File: VW021433.D
Acq: 17 Dec 2021 16:06

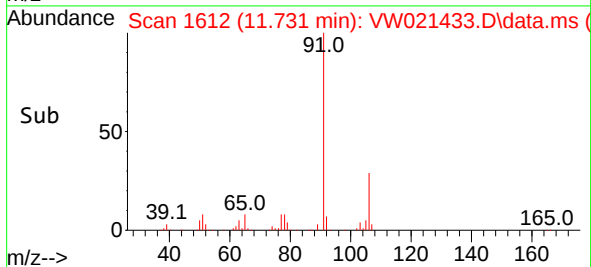
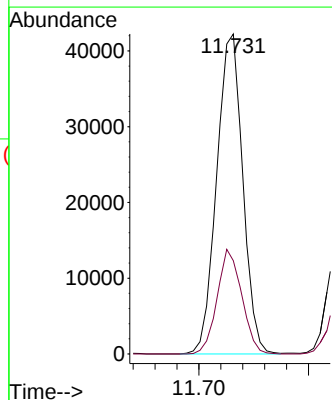
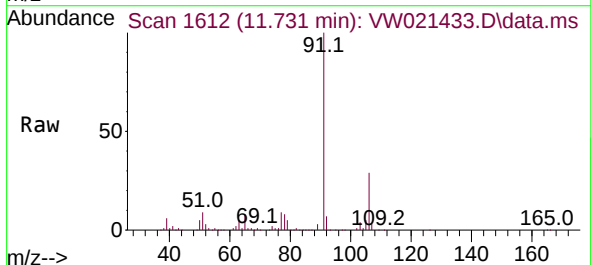
Instrument :
MSVOA_W
ClientSampleId :

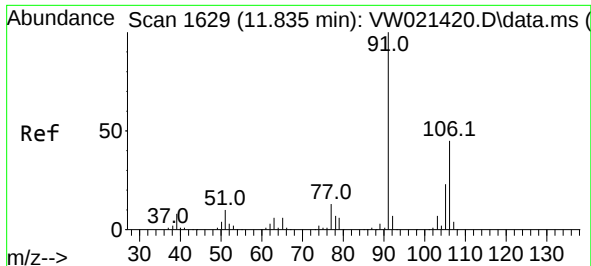
Tgt Ion:112 Resp: 3979
Ion Ratio Lower Upper
112 100
114 32.9 22.4 41.6
77 56.5 50.2 75.4



#52
Ethylbenzene
Concen: 11.724 ug/L
RT: 11.731 min Scan# 1612
Delta R.T. 0.006 min
Lab File: VW021433.D
Acq: 17 Dec 2021 16:06

Tgt Ion: 91 Resp: 69810
Ion Ratio Lower Upper
91 100
106 29.1 21.5 39.9

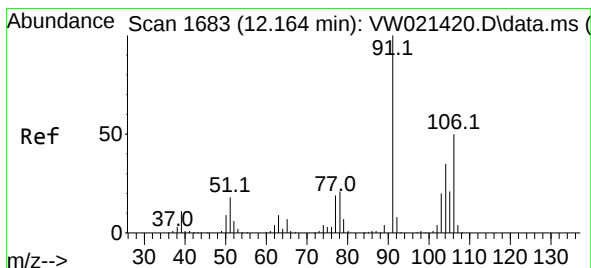
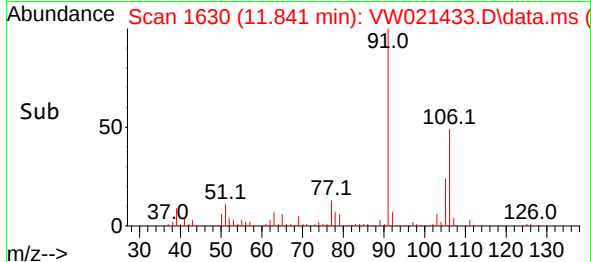
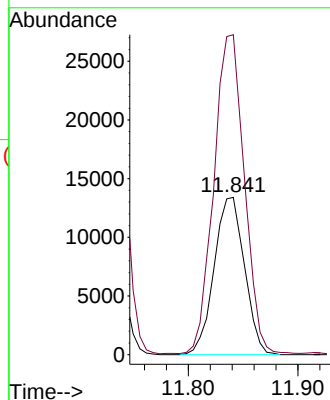
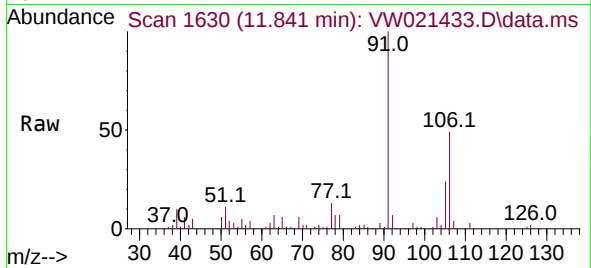




#53
m,p-Xylene
Concen: 10.736 ug/L
RT: 11.841 min Scan# 1630
Delta R.T. 0.006 min
Lab File: VW021433.D
Acq: 17 Dec 2021 16:06

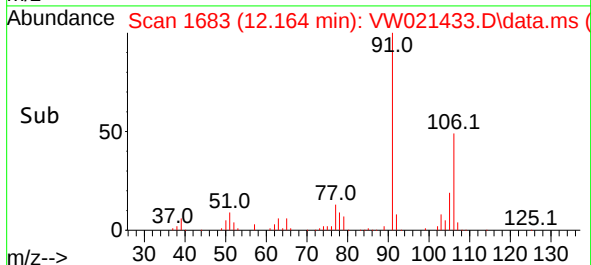
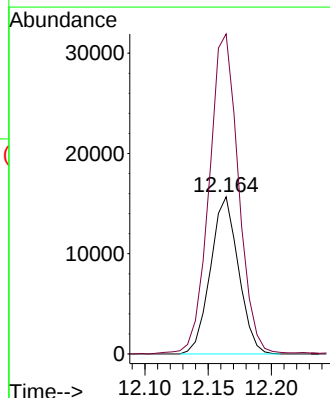
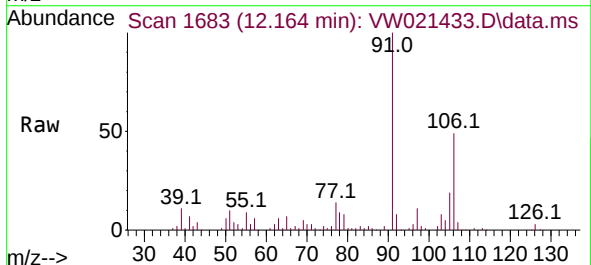
Instrument :
MSVOA_W
ClientSampleId :

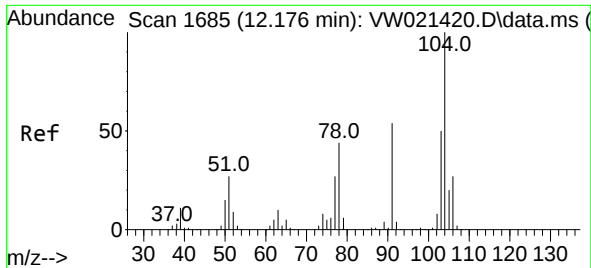
Tgt Ion:106 Resp: 25788
Ion Ratio Lower Upper
106 100
91 203.4 149.9 278.3



#54
o-Xylene
Concen: 10.566 ug/L
RT: 12.164 min Scan# 1683
Delta R.T. 0.000 min
Lab File: VW021433.D
Acq: 17 Dec 2021 16:06

Tgt Ion:106 Resp: 24087
Ion Ratio Lower Upper
106 100
91 203.6 153.6 285.3

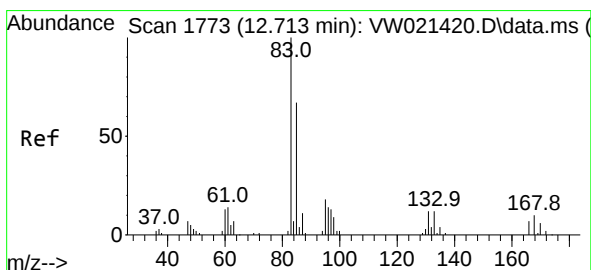
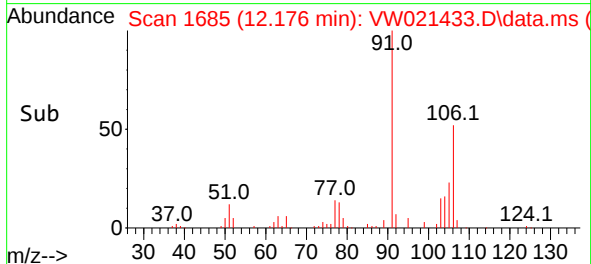
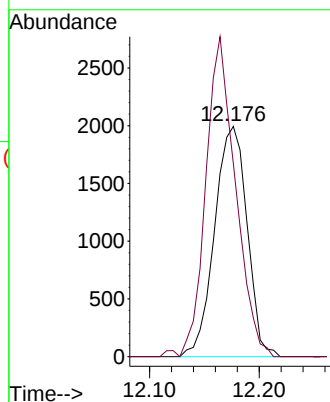
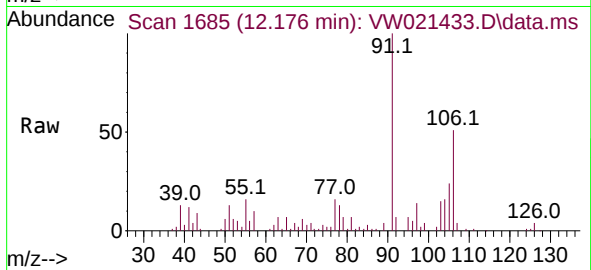




#55
Styrene
Concen: 1.055 ug/L
RT: 12.176 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW021433.D
Acq: 17 Dec 2021 16:06

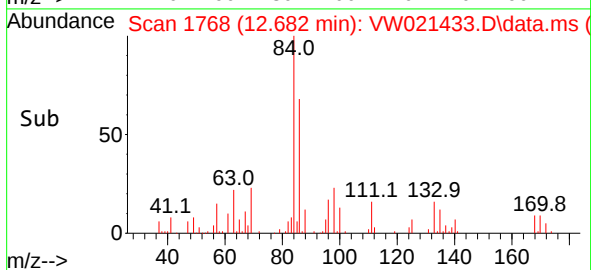
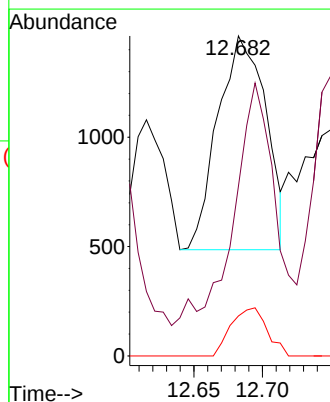
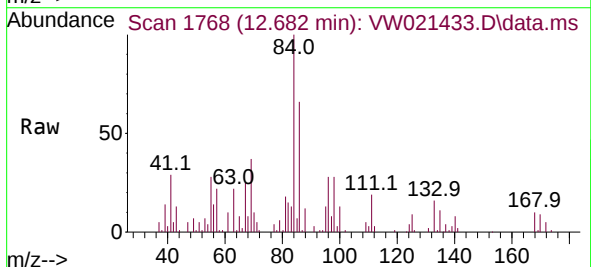
Instrument :
MSVOA_W
ClientSampleId :

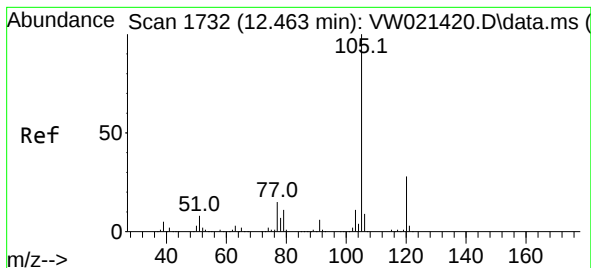
Tgt Ion:104 Resp: 4095
Ion Ratio Lower Upper
104 100
78 84.0 34.4 64.0#



#57
1,1,2,2-Tetrachloroethane
Concen: 2.557 ug/L
RT: 12.682 min Scan# 1768
Delta R.T. -0.030 min
Lab File: VW021433.D
Acq: 17 Dec 2021 16:06

Tgt Ion: 83 Resp: 2384
Ion Ratio Lower Upper
83 100
85 53.0 44.0 81.6
131 12.5 6.9 10.3#





#60

Isopropylbenzene

Concen: 19.058 ug/L

RT: 12.463 min Scan# 1

Delta R.T. 0.000 min

Lab File: VW021433.D

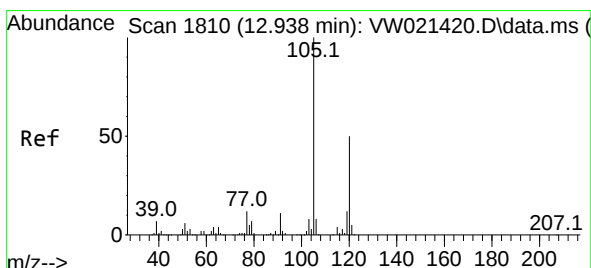
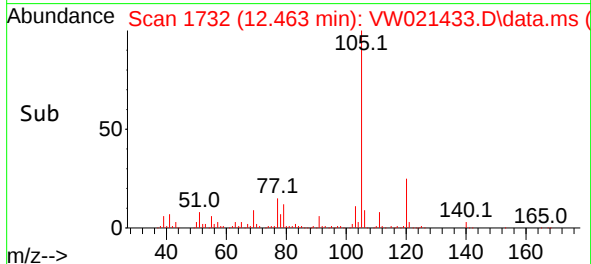
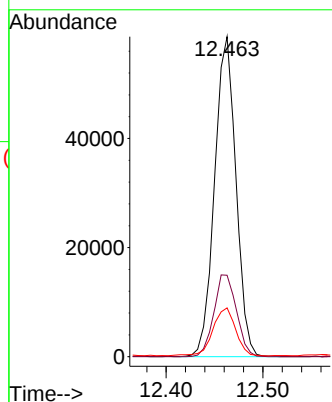
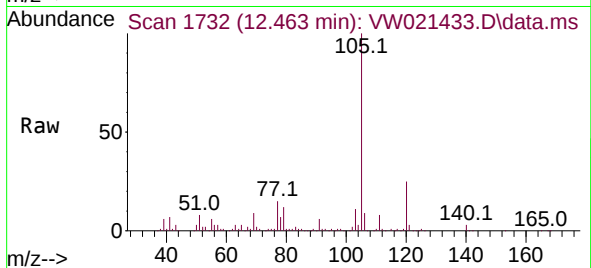
Acq: 17 Dec 2021 16:06

Instrument :

MSVOA_W

ClientSampleId :

Tgt Ion:	105	Resp:	90006
Ion Ratio	Lower	Upper	
105	100		
120	27.1	20.1	30.1
77	16.0	13.8	20.8



#62

1,3,5-Trimethylbenzene

Concen: 27.841 ug/L

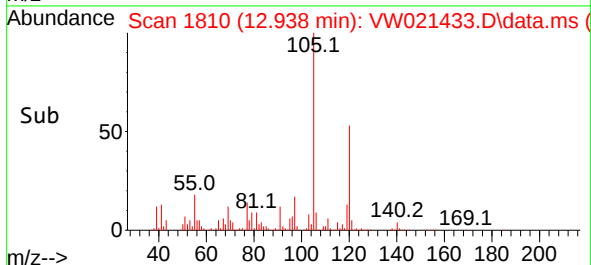
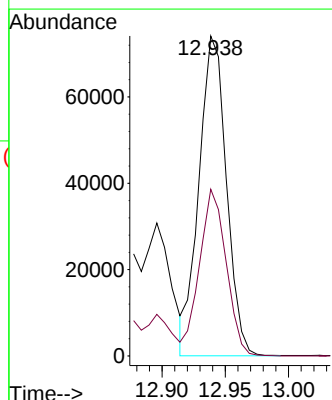
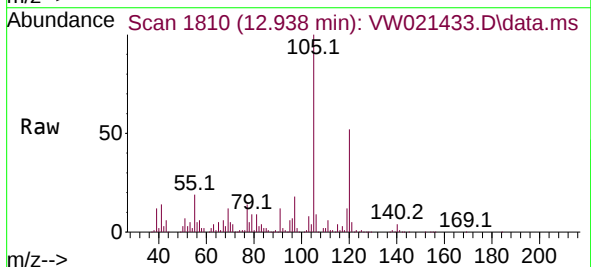
RT: 12.938 min Scan# 1810

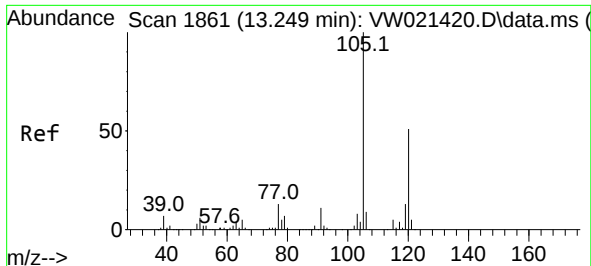
Delta R.T. 0.000 min

Lab File: VW021433.D

Acq: 17 Dec 2021 16:06

Tgt Ion:	105	Resp:	111887
Ion Ratio	Lower	Upper	
105	100		
120	50.9	37.4	56.2

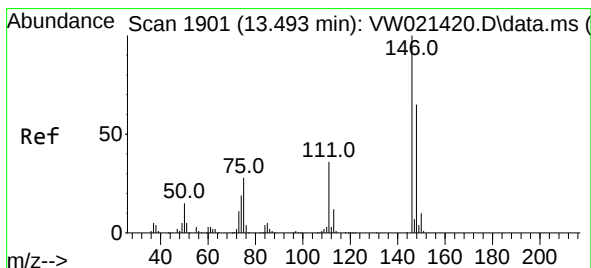
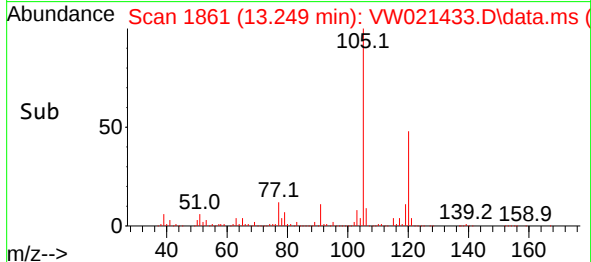
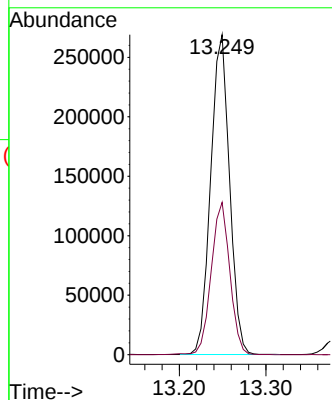
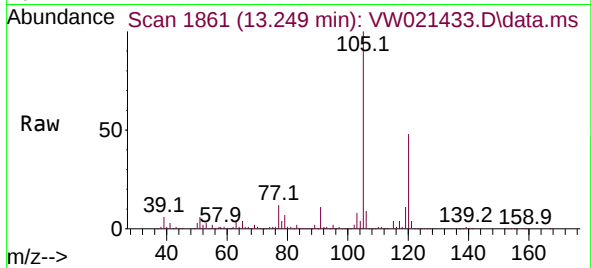




#63
 1,2,4-Trimethylbenzene
 Concen: 102.429 ug/L
 RT: 13.249 min Scan# 11
 Delta R.T. 0.000 min
 Lab File: VW021433.D
 Acq: 17 Dec 2021 16:06

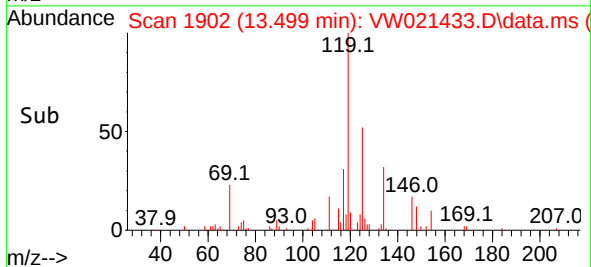
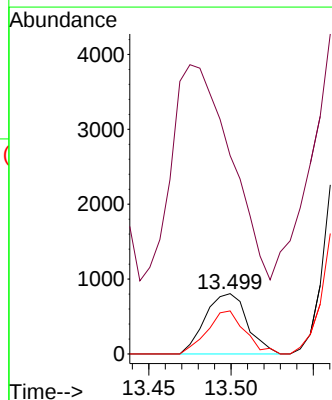
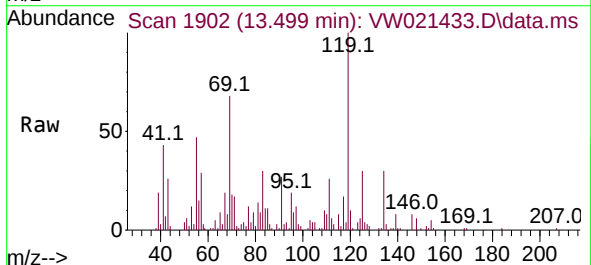
Instrument :
 MSVOA_W
 ClientSampleId :

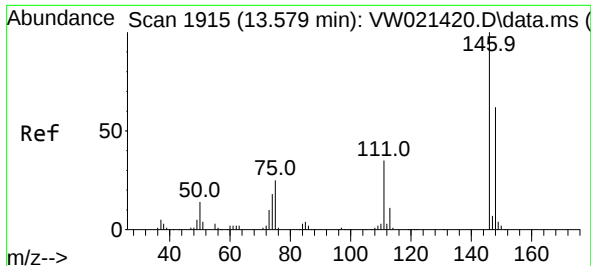
Tgt Ion:105 Resp: 406067
 Ion Ratio Lower Upper
 105 100
 120 46.9 35.0 52.6



#64
 1,3-Dichlorobenzene
 Concen: 0.642 ug/L
 RT: 13.499 min Scan# 1902
 Delta R.T. 0.006 min
 Lab File: VW021433.D
 Acq: 17 Dec 2021 16:06

Tgt Ion:146 Resp: 1430
 Ion Ratio Lower Upper
 146 100
 111 328.9 29.8 55.3#
 148 71.3 46.2 85.8

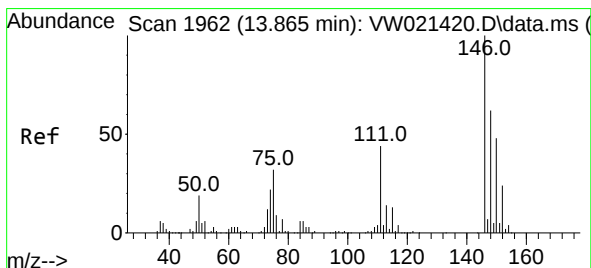
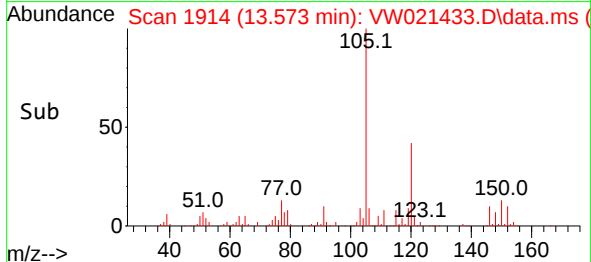
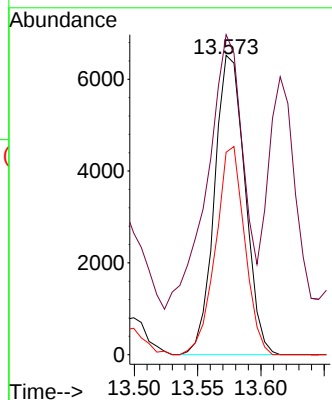
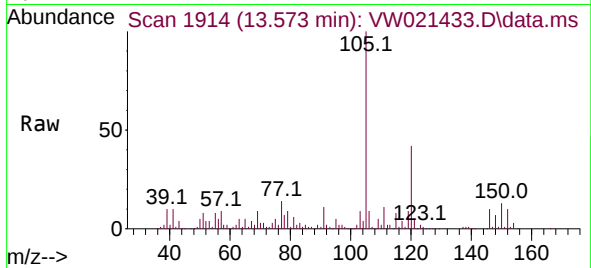




#65
1,4-Dichlorobenzene
Concen: 4.941 ug/L
RT: 13.573 min Scan# 1915
Delta R.T. 0.000 min
Lab File: VW021433.D
Acq: 17 Dec 2021 16:06

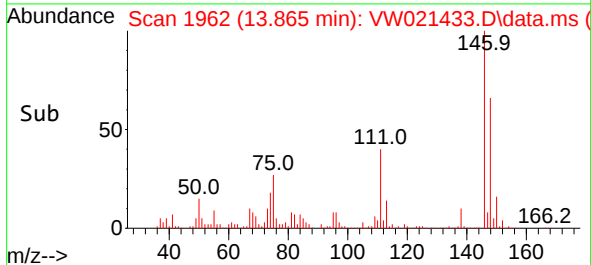
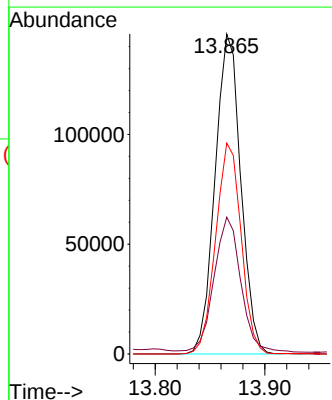
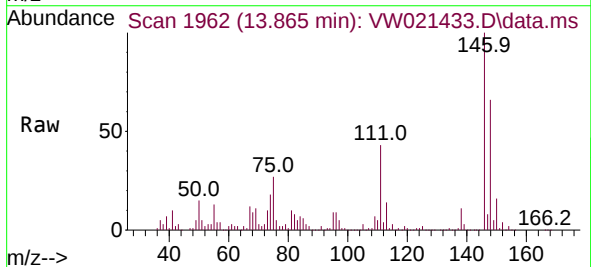
Instrument :
MSVOA_W
ClientSampleId :

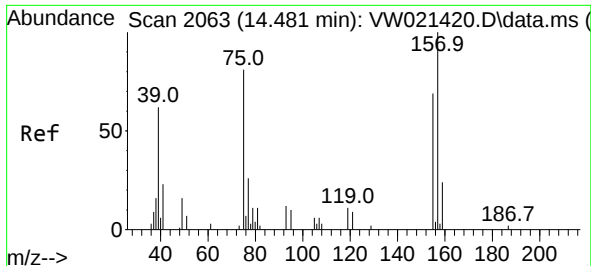
Tgt Ion:146 Resp: 10935
Ion Ratio Lower Upper
146 100
111 106.9 29.0 53.9#
148 67.6 46.9 87.1



#67
1,2-Dichlorobenzene
Concen: 121.300 ug/L
RT: 13.865 min Scan# 1962
Delta R.T. -0.006 min
Lab File: VW021433.D
Acq: 17 Dec 2021 16:06

Tgt Ion:146 Resp: 237887
Ion Ratio Lower Upper
146 100
111 42.7 33.1 49.7
148 65.9 47.4 71.2





#68

1,2-Dibromo-3-chloropropane

Concen: 17.952 ug/L

RT: 14.450 min Scan# 2063

Delta R.T. -0.030 min

Lab File: VW021433.D

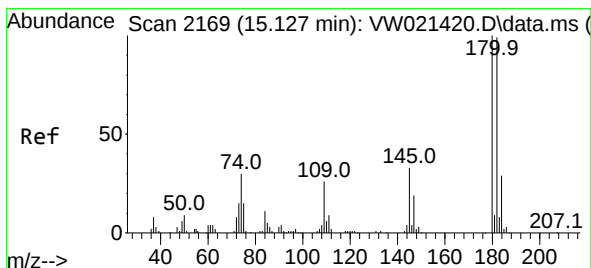
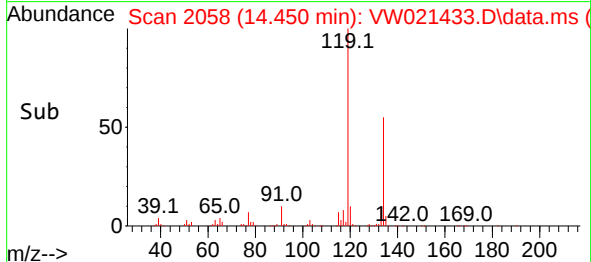
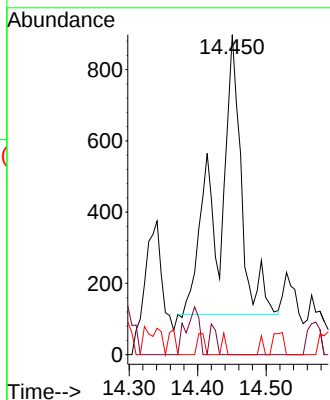
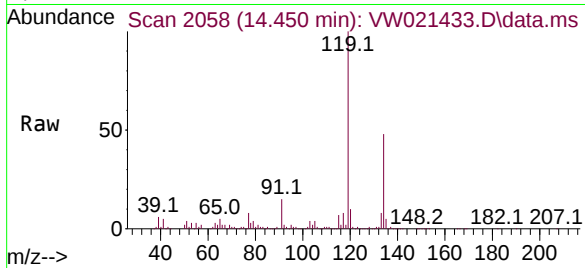
Acq: 17 Dec 2021 16:06

Instrument :

MSVOA_W

ClientSampleId :

Tgt Ion: 75	Resp: 1873
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: 98.966 ug/L

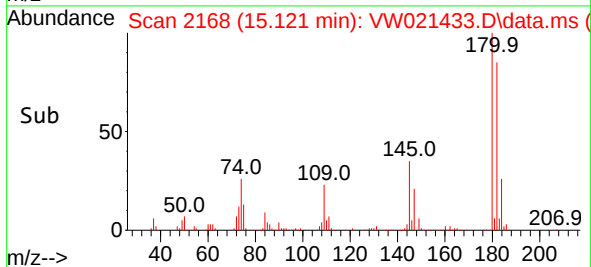
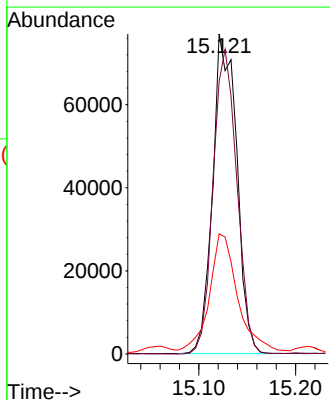
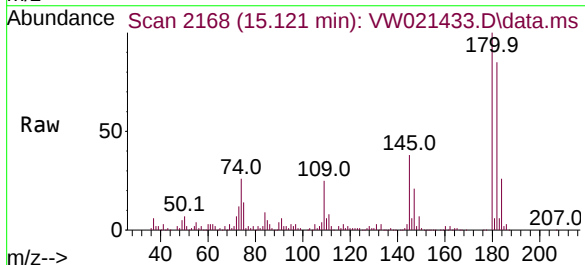
RT: 15.121 min Scan# 2168

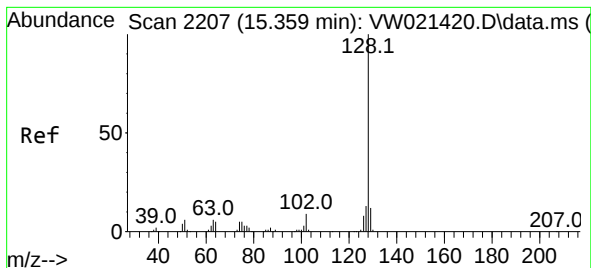
Delta R.T. -0.006 min

Lab File: VW021433.D

Acq: 17 Dec 2021 16:06

Tgt Ion: 180	Resp: 132530
Ion Ratio	Lower Upper
180 100	
182 94.4	79.0 118.6
145 42.8	26.0 39.0#





#71

Naphthalene

Concen: 140.621 ug/L

RT: 15.359 min Scan# 2207

Delta R.T. 0.000 min

Lab File: VW021433.D

Acq: 17 Dec 2021 16:06

Instrument :

MSVOA_W

ClientSampleId :

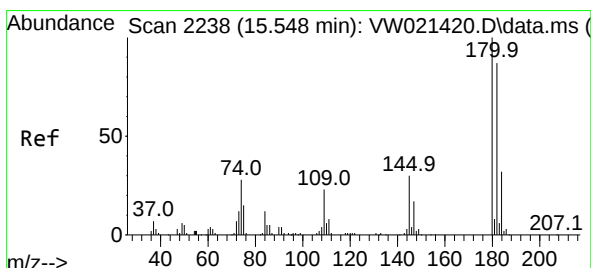
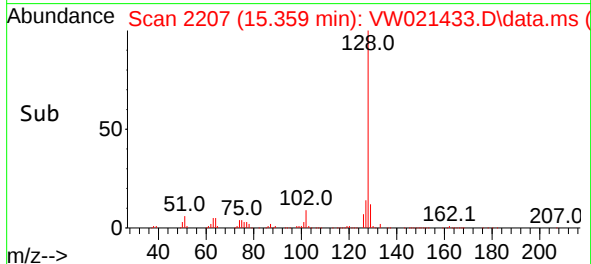
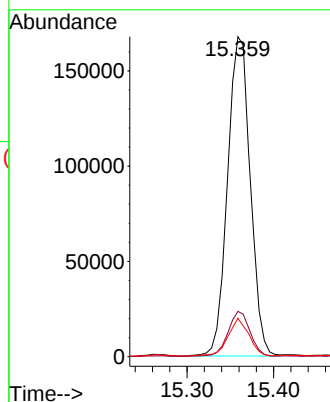
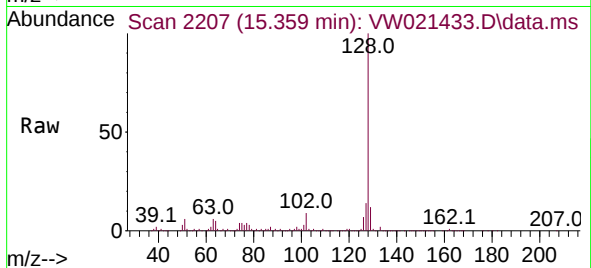
Tgt Ion:128 Resp: 305942

Ion Ratio Lower Upper

128 100

127 13.6 10.7 16.1

129 10.8 8.6 12.8



#72

1,2,3-Trichlorobenzene

Concen: 31.548 ug/L

RT: 15.548 min Scan# 2238

Delta R.T. -0.006 min

Lab File: VW021433.D

Acq: 17 Dec 2021 16:06

Tgt Ion:180 Resp: 34915

Ion Ratio Lower Upper

180 100

182 99.4 76.6 114.8

145 79.8 27.4 41.0#

