

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW111120\
 Data File : VW017161.D
 Acq On : 11 Nov 2020 13:39
 Operator : SY/VA
 Sample : L4693-09
 Misc : 5.33G/10ML/MSVOA W/SOIL
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 BG4D9

Quant Time: Nov 12 03:16:04 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM110420S.M
 Quant Title : VOC Analysis
 QLast Update : Thu Nov 12 03:07:51 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.85	114	474848	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.63	117	385031	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.56	152	149598	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.35	65	142629	23.85	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	95.40%
7) Chloroethane-d5	2.90	69	119149	25.85	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	103.40%
10) 1,1-Dichloroethene-d2	4.03	63	194476	18.18	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	72.72%
20) 2-Butanone-d5	7.09	46	45121	33.73	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	67.46%
24) Chloroform-d	7.65	84	269513	24.31	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	97.24%
26) 1,2-Dichloroethane-d4	8.40	65	117	0.02	ug/L	0.10
Spiked Amount	25.000	Range	70 - 130	Recovery	=	0.08%#
29) Benzene-d6	8.28	84	549656	28.03	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	112.12%
33) 1,2-Dichloropropane-d6	9.27	67	147845	27.26	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	109.04%
37) Toluene-d8	10.33	98	510784	27.63	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	110.52%
38) trans-1,3-Dichloropropene-	10.58	79	56928	23.28	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	93.12%
39) 2-Hexanone-d5	10.93	63	32174	33.99	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	67.98%
48) 1,1,2,2-Tetrachloroethane-	12.69	84	93509	19.79	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	79.16%
61) 1,2-Dichlorobenzene-d4	13.85	152	136271	25.85	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	103.40%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
12) 1,1-Dichloroethene	4.04	96	4360	0.740	ug/L #	1
13) Acetone	4.14	43	7390	8.252	ug/L	98
14) Carbon disulfide	4.38	76	24013	1.497	ug/L	99
16) Methylene chloride	4.92	84	9355	1.461	ug/L	99
21) 2-Butanone	7.16	43	1610	1.120	ug/L	90
22) cis-1,2-Dichloroethene	7.18	96	7875	1.221	ug/L	92
34) Benzene	8.32	78	83512	4.131	ug/L	100
35) Trichloroethene	9.10	95	1070823	189.074	ug/L	99
40) 1,2-Dichloropropane	9.09	63	3511	0.743	ug/L	97
42) cis-1,3-Dichloropropene	10.04	75	4521	0.604	ug/L #	76
43) 4-Methyl-2-pentanone	10.21	43	4078	1.399	ug/L	92
44) Toluene	10.40	91	8565	0.385	ug/L	96
45) trans-1,3-Dichloropropene	10.58	75	2799	0.435	ug/L	95
47) Tetrachloroethene	10.87	164	13557703	2653.271	ug/L	94
54) m,p-Xylene	11.84	106	3424	0.352	ug/L	78
64) 1,4-Dichlorobenzene	13.58	146	4291	0.459	ug/L	95
65) 1,2-Dichlorobenzene	13.87	146	3916	0.467	ug/L #	92

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Quant Title : VOC Analysis
QLast Update : Thu Nov 12 03:07:51 2020
Response via : Initial Calibration

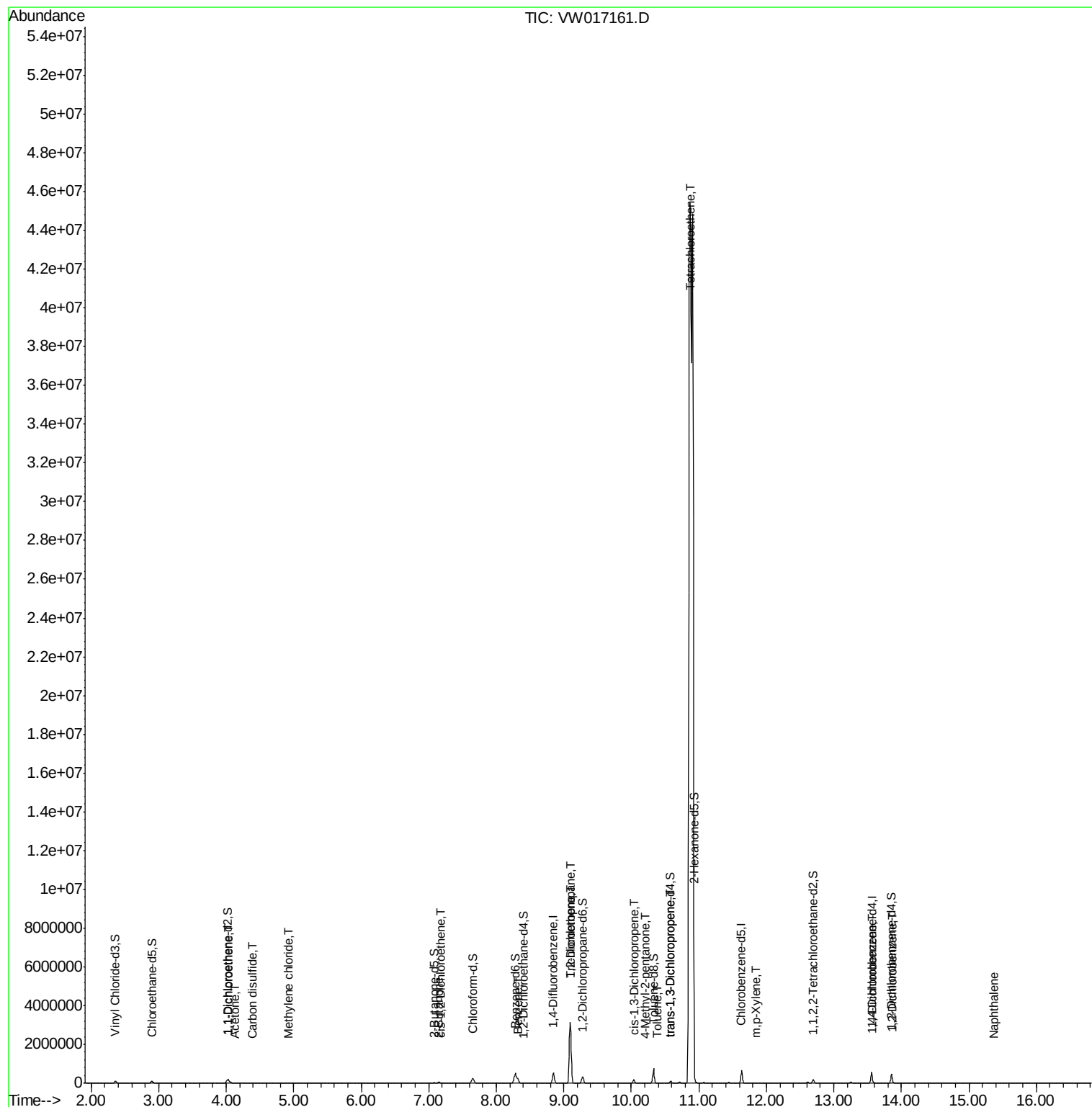
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----	-----	-----	-----	-----	-----	-----
69) Naphthalene	15.37	128	2667	0.265	ug/L #	77
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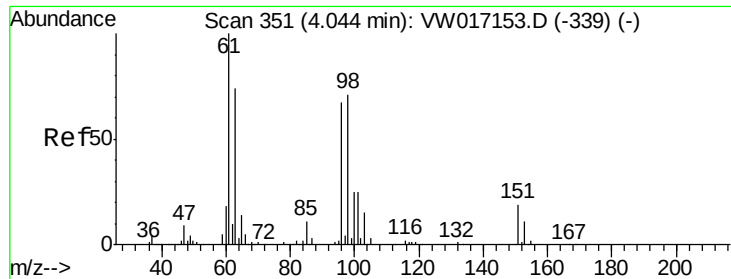
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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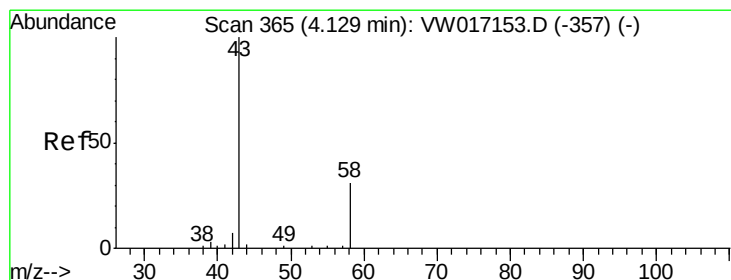
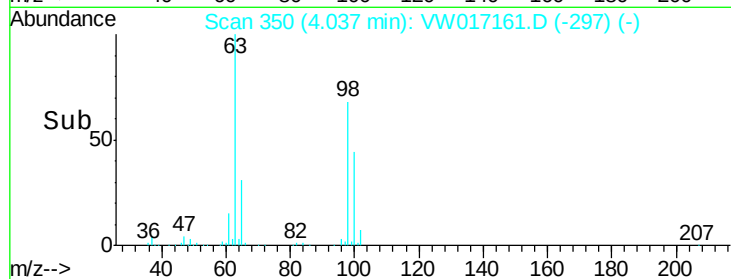
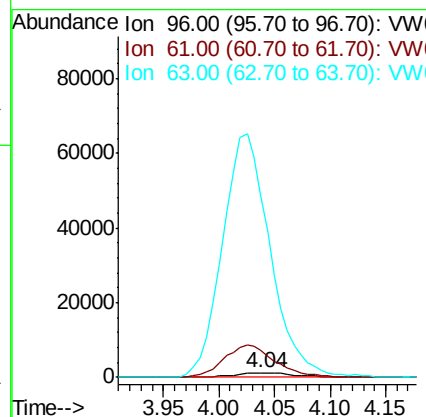
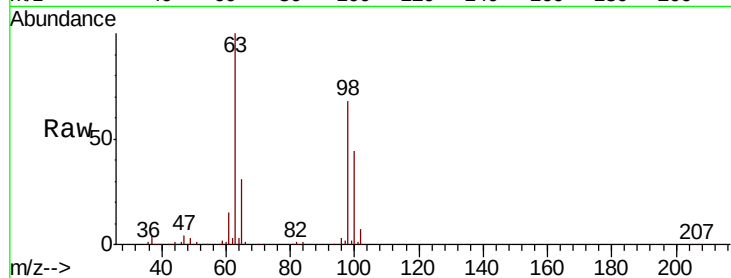




#12
 1,1-Dichloroethene
 Concen: 0.740 ug/L
 RT: 4.04 min Scan# 350
 Delta R.T. -0.01 min
 Lab File: VW017161.D
 Acq: 11 Nov 2020 13:39

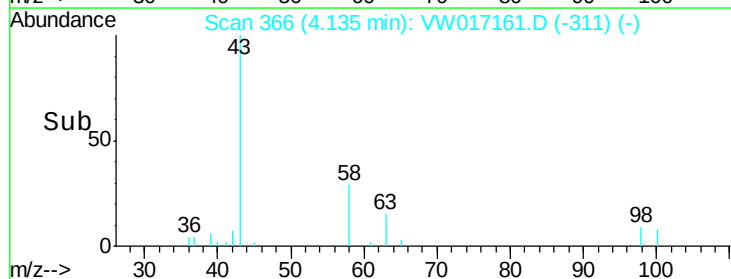
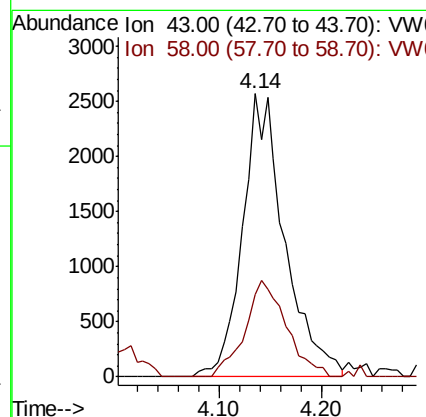
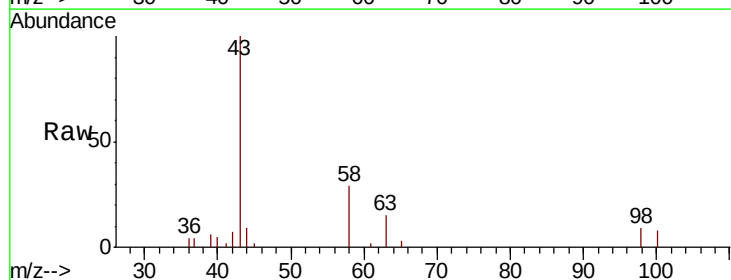
Instrument :
 MSVOA_W
 ClientSampled :
 BG4D9

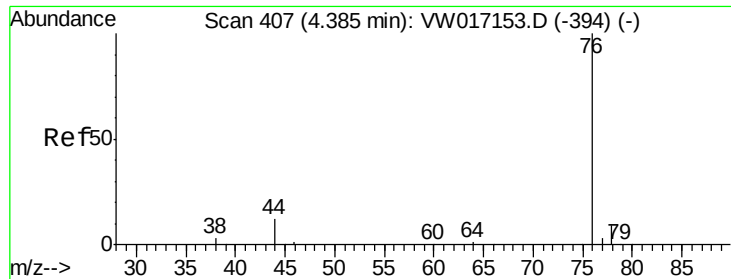
Tot Ion: 96 Resp: 4360
 Ion Ratio Lower Upper
 96 100
 61 566.6 103.8 192.8#
 63 3837.5 84.4 156.7#



#13
 Acetone
 Concen: 8.252 ug/L
 RT: 4.14 min Scan# 366
 Delta R.T. 0.01 min
 Lab File: VW017161.D
 Acq: 11 Nov 2020 13:39

Tgt Ion: 43 Resp: 7390
 Ion Ratio Lower Upper
 43 100
 58 33.4 0.0 69.2





#14

Carbon disulfide

Concen: 1.497 ug/L

RT: 4.38 min Scan# 407

Delta R.T. -0.00 min

Lab File: VW017161.D

Acq: 11 Nov 2020 13:39

Instrument :

MSVOA_W

ClientSampleId :

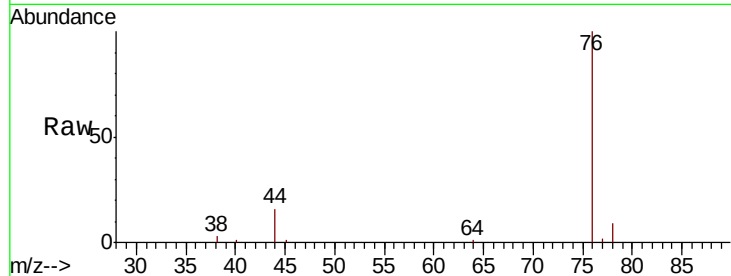
BG4D9

Tot Ion: 76 Resp: 24013

Ion Ratio Lower Upper

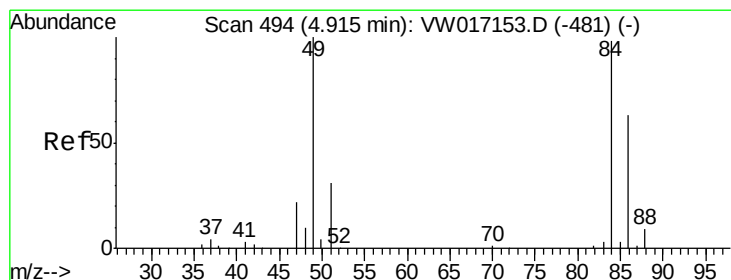
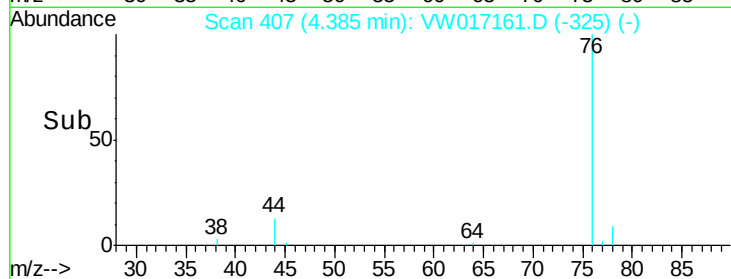
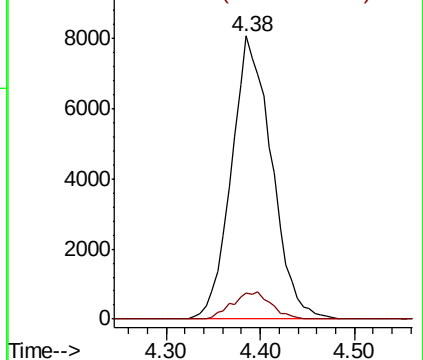
76 100

78 9.0 7.6 11.4



Abundance Ion 76.00 (75.70 to 76.70): VW

Ion 78.00 (77.70 to 78.70): VW



#16

Methylene chloride

Concen: 1.461 ug/L

RT: 4.92 min Scan# 495

Delta R.T. 0.01 min

Lab File: VW017161.D

Acq: 11 Nov 2020 13:39

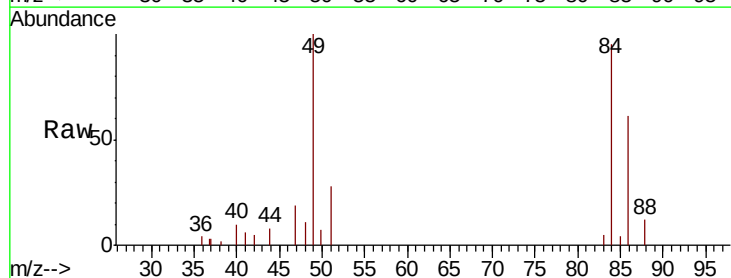
Tgt Ion: 84 Resp: 9355

Ion Ratio Lower Upper

84 100

49 105.6 72.3 134.3

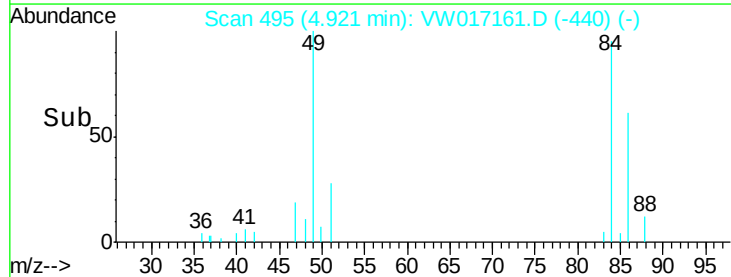
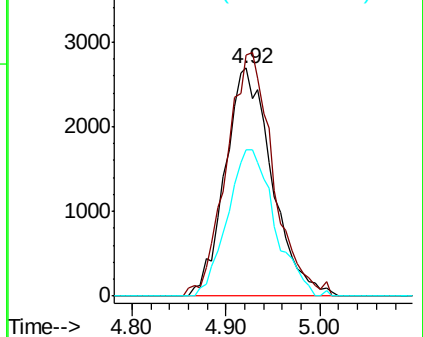
86 64.4 45.1 83.7

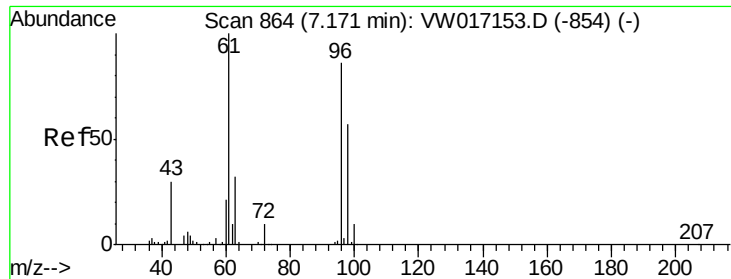


Abundance Ion 84.00 (83.70 to 84.70): VW

Ion 49.00 (48.70 to 49.70): VW

Ion 86.00 (85.70 to 86.70): VW





#21

2-Butanone

Concen: 1.120 ug/L

RT: 7.16 min Scan# 862

Delta R.T. -0.01 min

Lab File: VW017161.D

Acq: 11 Nov 2020 13:39

Instrument :

MSVOA_W

ClientSampled :

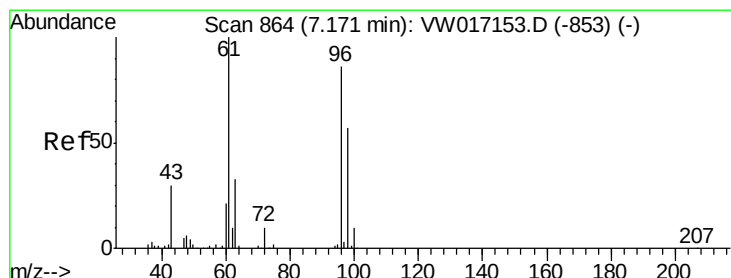
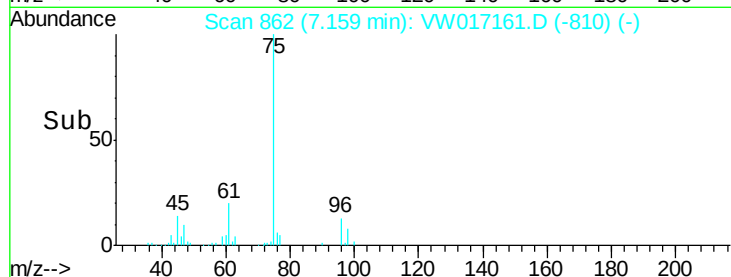
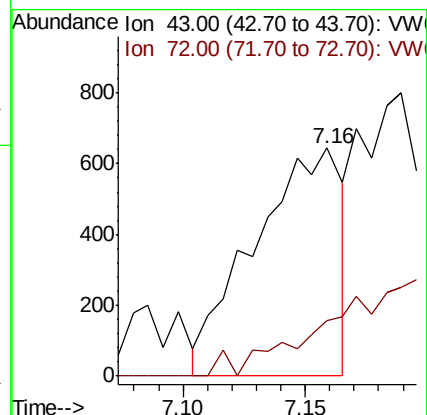
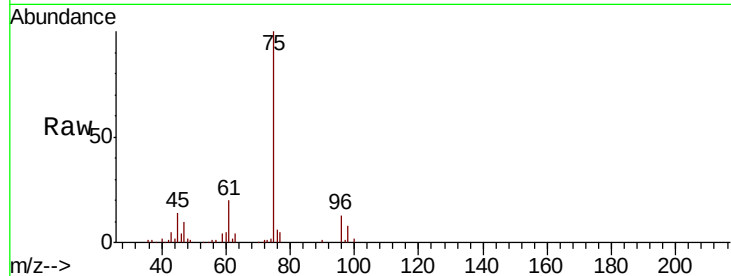
BG4D9

Tot Ion: 43 Resp: 1610

Ion Ratio Lower Upper

43 100

72 26.3 16.1 48.3



#22

cis-1,2-Dichloroethene

Concen: 1.221 ug/L

RT: 7.18 min Scan# 865

Delta R.T. 0.01 min

Lab File: VW017161.D

Acq: 11 Nov 2020 13:39

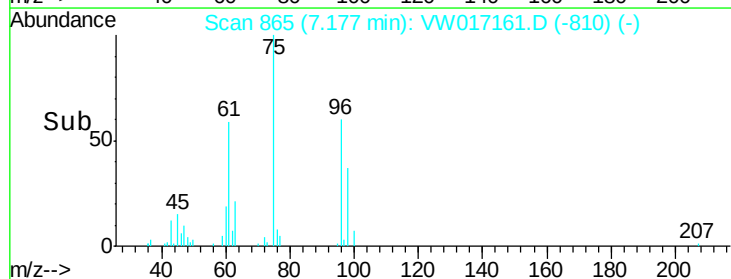
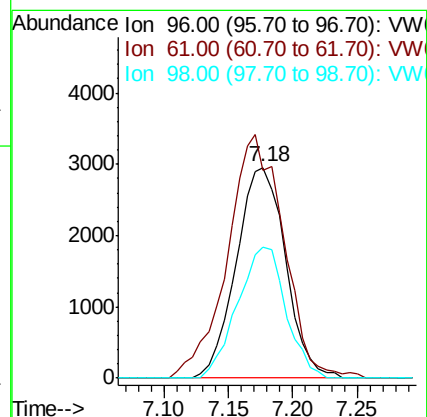
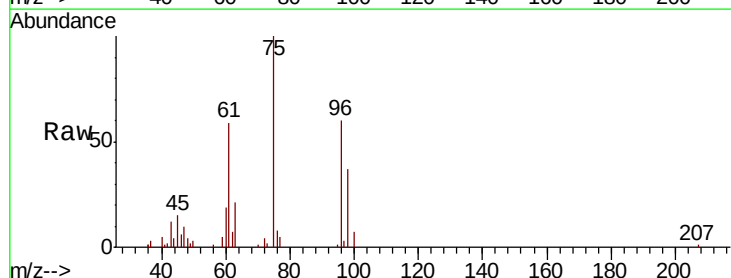
Tgt Ion: 96 Resp: 7875

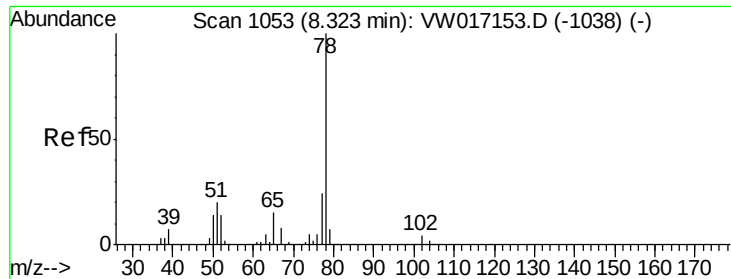
Ion Ratio Lower Upper

96 100

61 98.5 77.4 143.8

98 62.0 45.1 83.7





#34

Benzene

Concen: 4.131 ug/L

RT: 8.32 min Scan# 1053

Delta R.T. -0.00 min

Lab File: VW017161.D

Acq: 11 Nov 2020 13:39

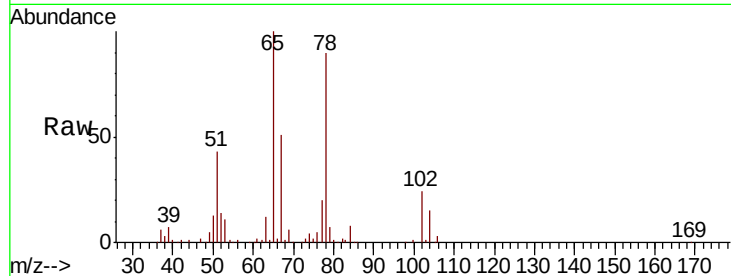
Instrument :

MSVOA_W

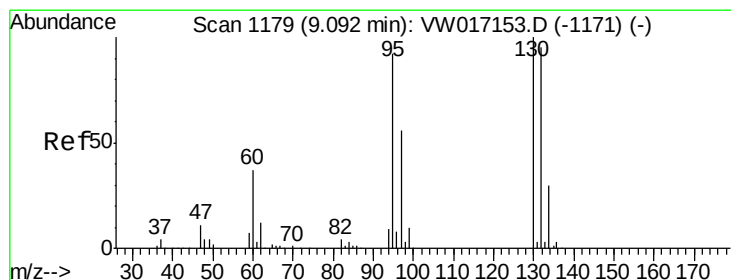
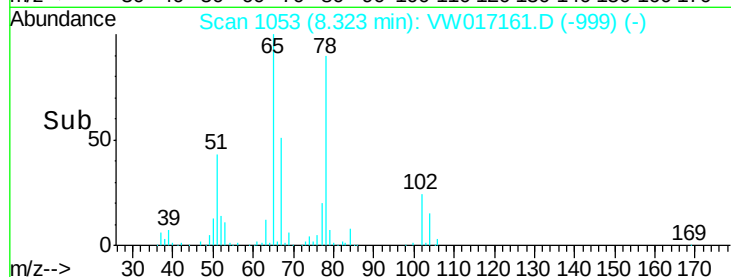
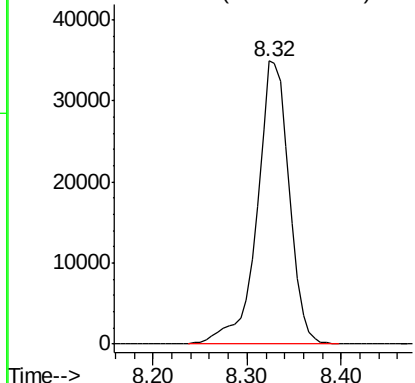
ClientSampleId :

BG4D9

Tgt Ion: 78 Resp: 83512



Abundance Ion 78.00 (77.70 to 78.70): VW



#35

Trichloroethene

Concen: 189.074 ug/L

RT: 9.10 min Scan# 1180

Delta R.T. 0.01 min

Lab File: VW017161.D

Acq: 11 Nov 2020 13:39

Tgt Ion: 95 Resp: 1070823

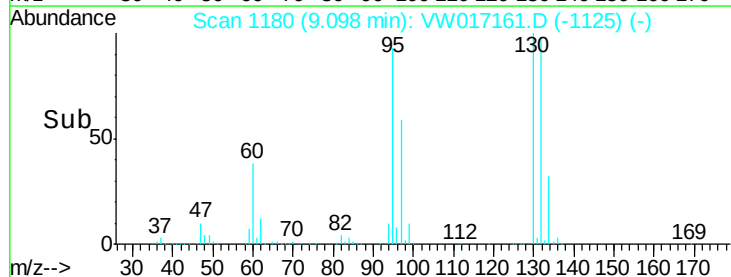
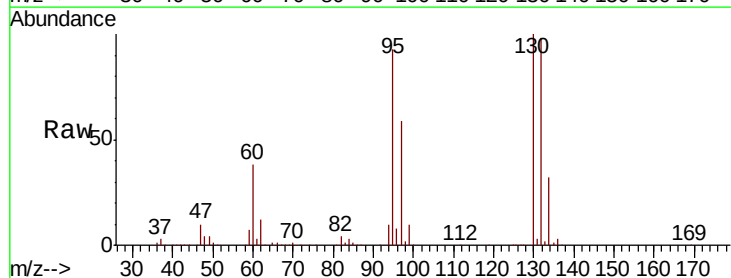
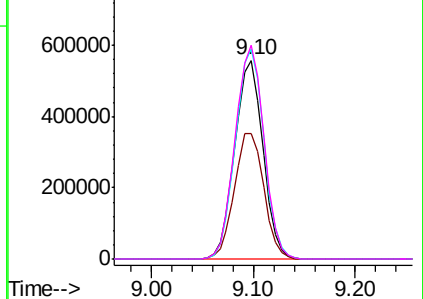
Ion	Ratio	Lower	Upper
95	100		
97	65.9	45.0	83.6
132	106.6	73.7	136.9
130	109.5	77.1	143.1

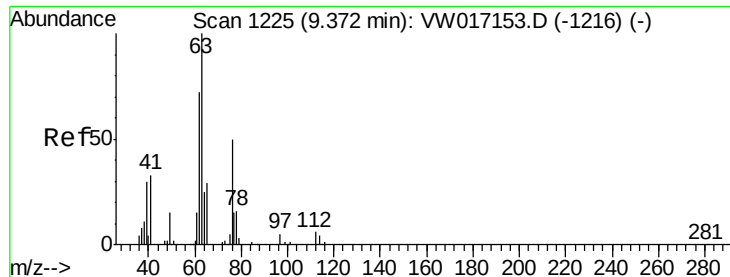
Abundance Ion 95.00 (94.70 to 95.70): VW

Ion 97.00 (96.70 to 97.70): VW

Ion 132.00 (131.70 to 132.70): VW

Ion 130.00 (129.70 to 130.70): VW

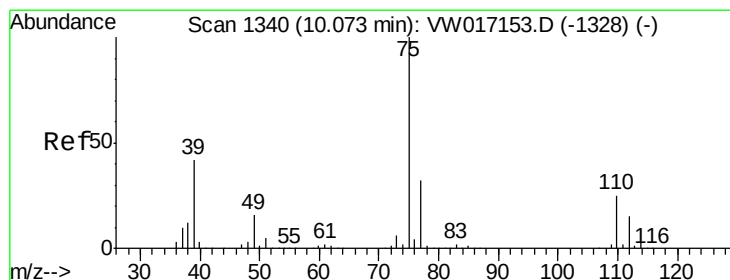
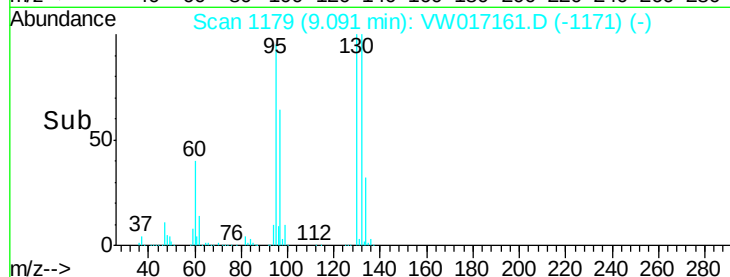
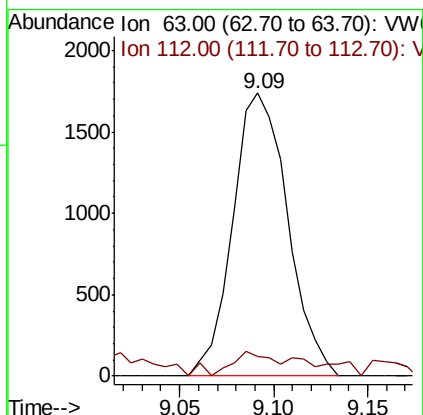
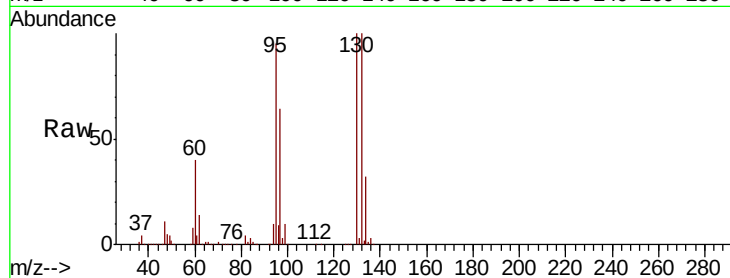




#40
 1,2-Dichloropropane
 Concen: 0.743 ug/L
 RT: 9.09 min Scan# 1179
 Delta R.T. -0.28 min
 Lab File: VW017161.D
 Acq: 11 Nov 2020 13:39

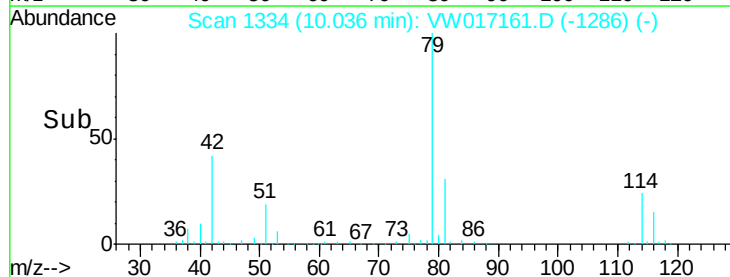
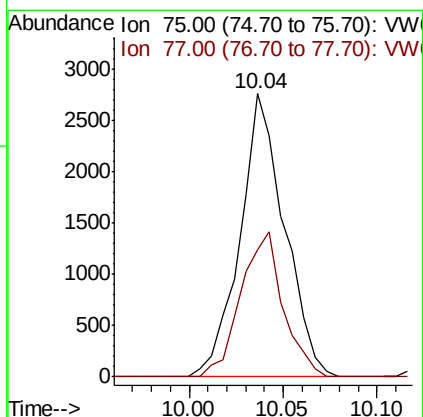
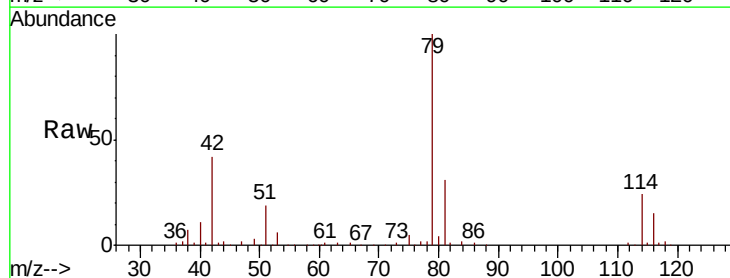
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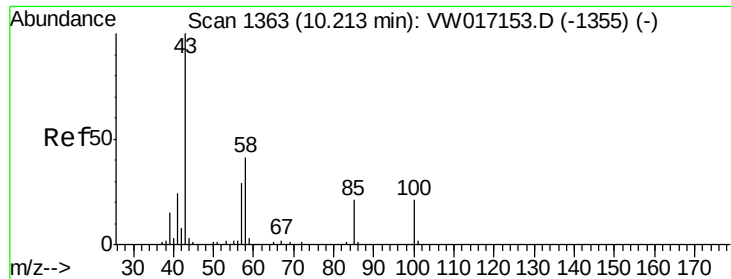
Tot Ion: 63 Resp: 3511
 Ion Ratio Lower Upper
 63 100
 112 6.2 4.2 6.2



#42
 cis-1,3-Dichloropropene
 Concen: 0.604 ug/L
 RT: 10.04 min Scan# 1334
 Delta R.T. -0.04 min
 Lab File: VW017161.D
 Acq: 11 Nov 2020 13:39

Tgt Ion: 75 Resp: 4521
 Ion Ratio Lower Upper
 75 100
 77 44.8 22.0 41.0#

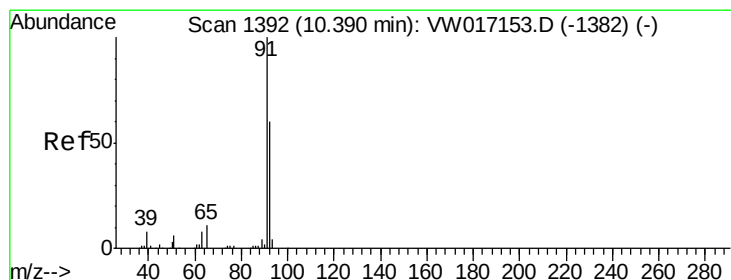
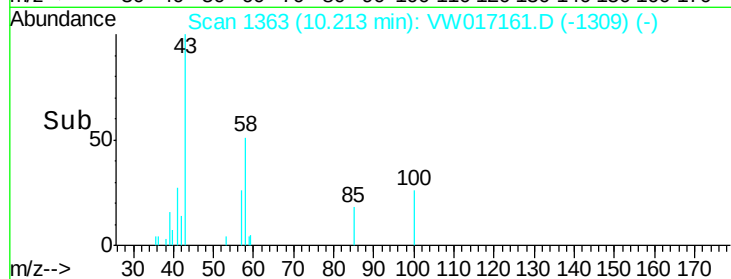
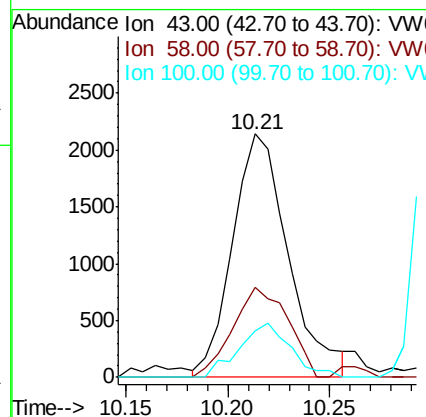
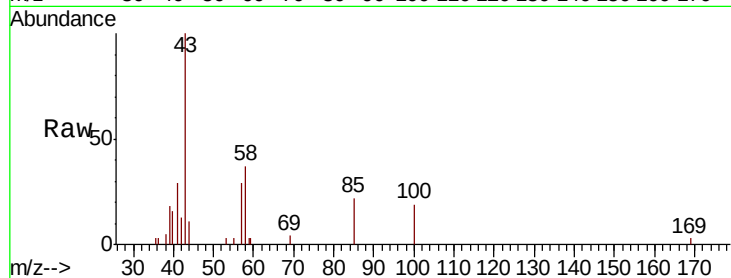




#43
4-Methyl-2-pentanone
Concen: 1.399 ug/L
RT: 10.21 min Scan# 1363
Delta R.T. -0.00 min
Lab File: VW017161.D
Acq: 11 Nov 2020 13:39

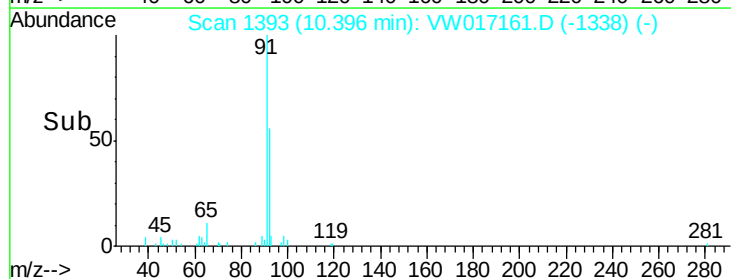
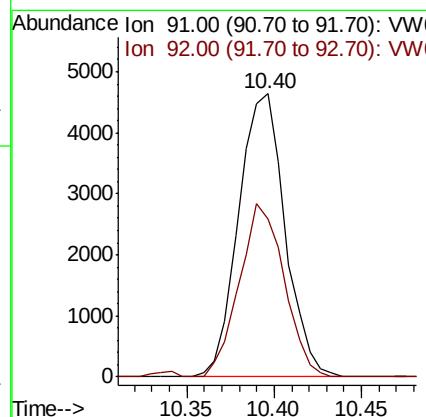
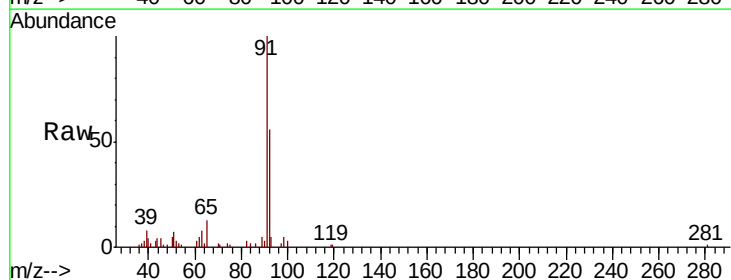
Instrument :
MSVOA_W
ClientSampled :
BG4D9

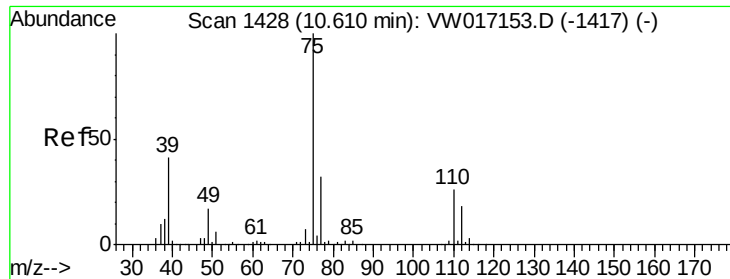
Tot Ion: 43 Resp: 4078
Ion Ratio Lower Upper
43 100
58 36.5 35.0 52.6
100 20.5 16.6 24.8



#44
Toluene
Concen: 0.385 ug/L
RT: 10.40 min Scan# 1393
Delta R.T. 0.01 min
Lab File: VW017161.D
Acq: 11 Nov 2020 13:39

Tgt Ion: 91 Resp: 8565
Ion Ratio Lower Upper
91 100
92 55.7 41.4 76.8





#45

trans-1,3-Dichloropropene

Concen: 0.435 ug/L

RT: 10.58 min Scan# 1423

Delta R.T. -0.03 min

Lab File: VW017161.D

Acq: 11 Nov 2020 13:39

Instrument :

MSVOA_W

ClientSampleId :

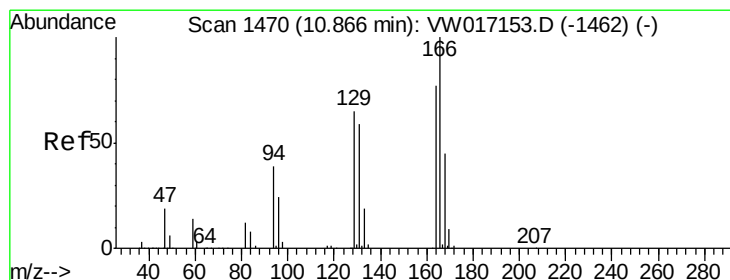
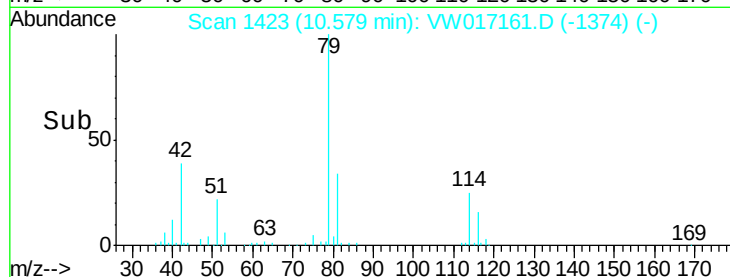
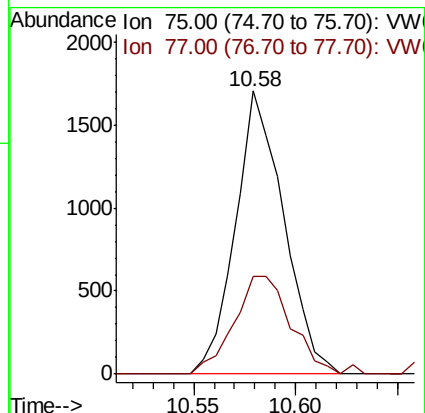
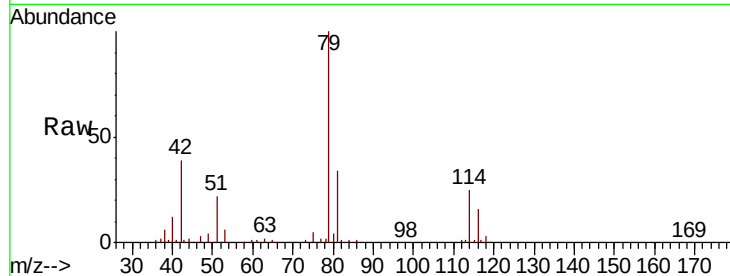
BG4D9

Tot Ion: 75 Resp: 2799

Ion Ratio Lower Upper

75 100

77 34.4 22.1 41.1



#47

Tetrachloroethene

Concen: 2653.271 ug/L

RT: 10.87 min Scan# 1471

Delta R.T. 0.01 min

Lab File: VW017161.D

Acq: 11 Nov 2020 13:39

Tgt Ion:164 Resp:13557703

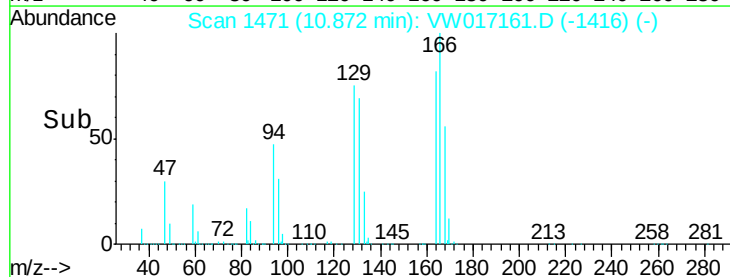
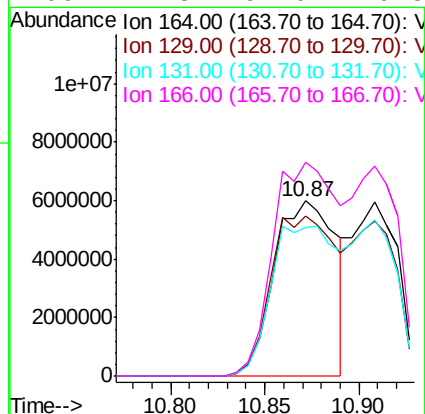
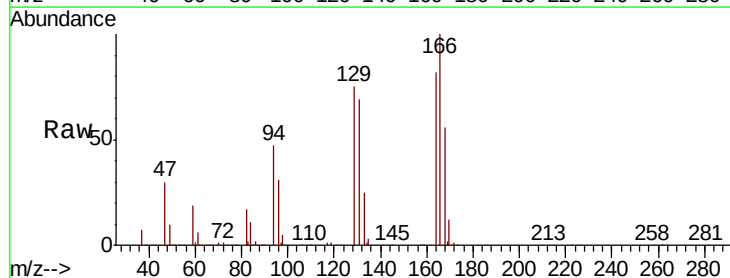
Ion Ratio Lower Upper

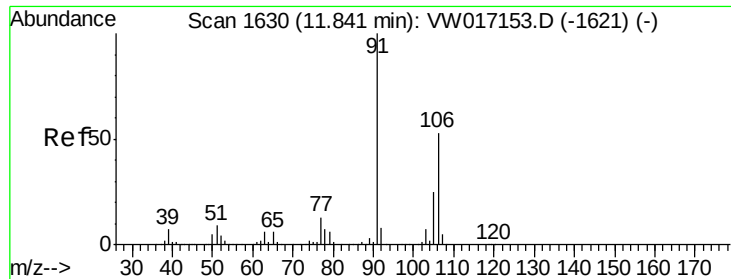
164 100

129 91.3 62.9 116.7

131 84.5 63.3 117.5

166 121.8 92.0 170.8





#54

m,p-Xylene

Concen: 0.352 ug/L

RT: 11.84 min Scan# 1630

Delta R.T. -0.00 min

Lab File: VW017161.D

Acq: 11 Nov 2020 13:39

Instrument :

MSVOA_W

ClientSampleId :

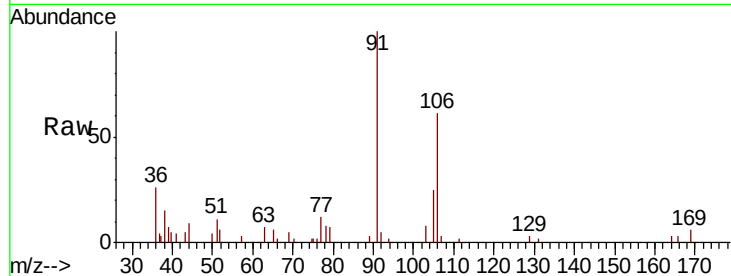
BG4D9

Tot Ion:106 Resp: 3424

Ion Ratio Lower Upper

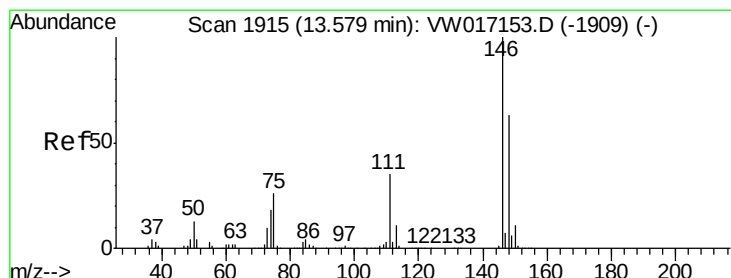
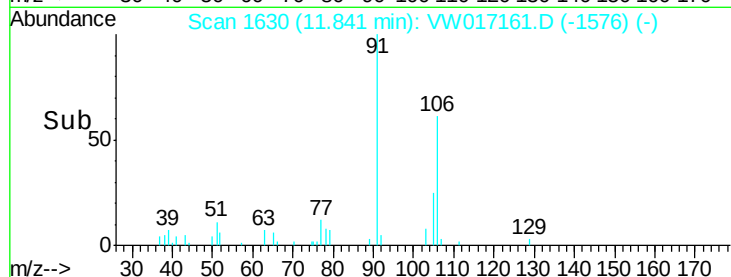
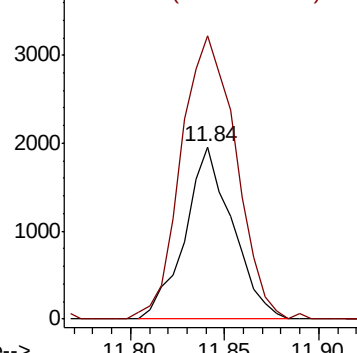
106 100

91 164.3 138.7 257.5



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW



#64

1,4-Dichlorobenzene

Concen: 0.459 ug/L

RT: 13.58 min Scan# 1915

Delta R.T. -0.00 min

Lab File: VW017161.D

Acq: 11 Nov 2020 13:39

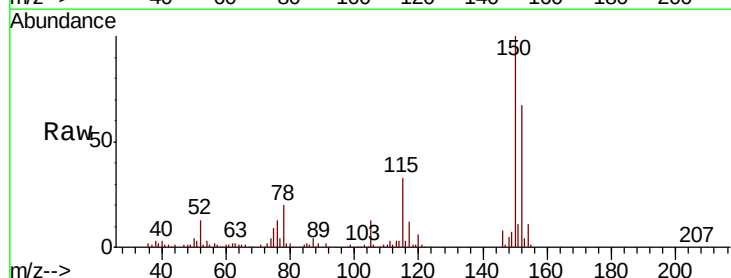
Tgt Ion:146 Resp: 4291

Ion Ratio Lower Upper

146 100

111 41.6 24.5 45.5

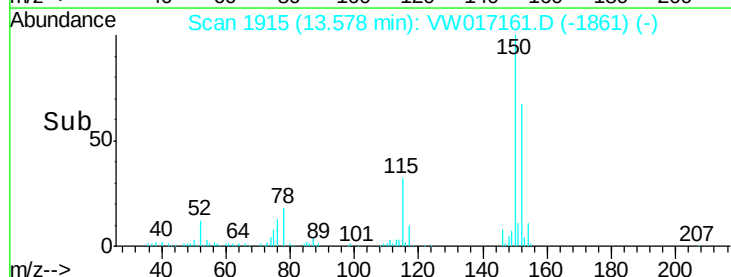
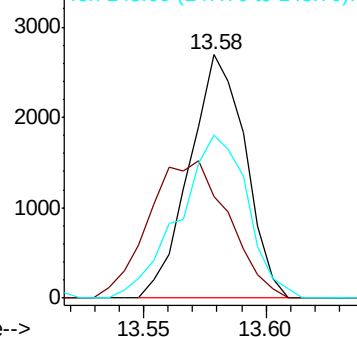
148 66.8 45.5 84.5

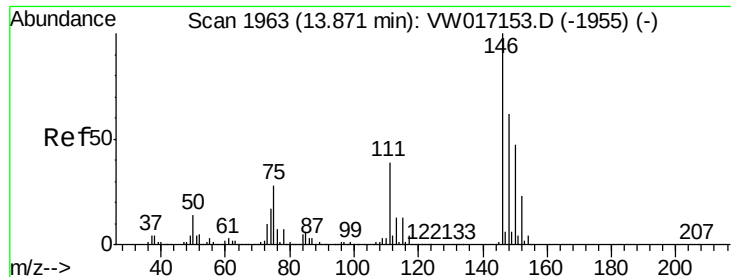


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

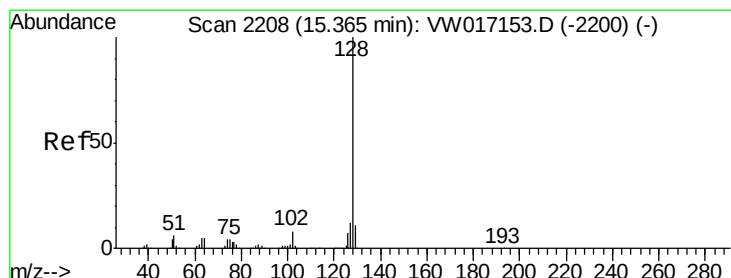
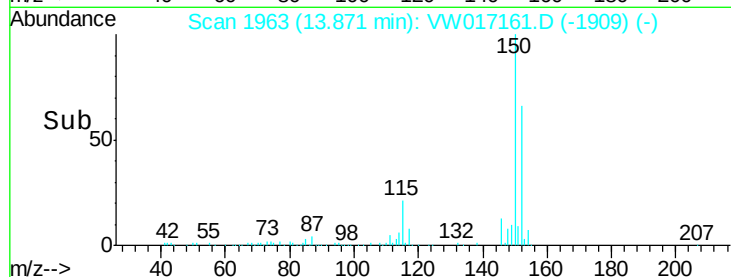
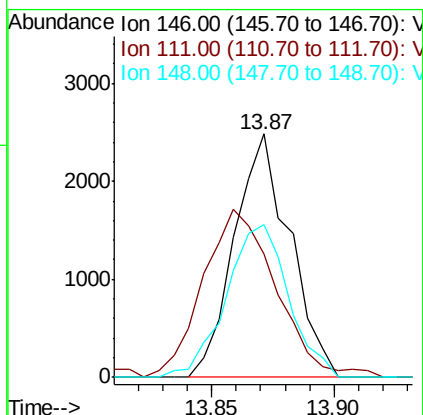
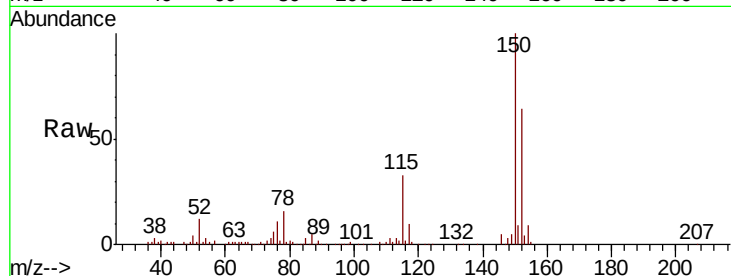




#65
 1,2-Dichlorobenzene
 Concen: 0.467 ug/L
 RT: 13.87 min Scan# 1963
 Delta R.T. -0.00 min
 Lab File: VW017161.D
 Acq: 11 Nov 2020 13:39

Instrument :
 MSVOA_W
 ClientSampleId :
 BG4D9

Tot Ion:146 Resp: 3916
 Ion Ratio Lower Upper
 146 100
 111 50.6 30.5 45.7#
 148 62.6 50.3 75.5



#69
 Naphthalene
 Concen: 0.265 ug/L
 RT: 15.37 min Scan# 2209
 Delta R.T. 0.01 min
 Lab File: VW017161.D
 Acq: 11 Nov 2020 13:39

Tgt Ion:128 Resp: 2667
 Ion Ratio Lower Upper
 128 100
 129 3.9 8.6 12.8#
 127 2.2 10.2 15.2#

