

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX073020\
 Data File : VX017681.D
 Acq On : 30 Jul 2020 14:03
 Operator : JC/SP
 Sample : L3514-07
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 RW-12I

Quant Time: Jul 31 11:48:19 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X072320W.M
 Quant Title : SW846 8260
 QLast Update : Fri Jul 24 05:48:09 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.64	168	465128	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.84	114	729590	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	772131	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	461272	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.03	65	316815	53.03	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.06%	
35) Dibromofluoromethane	5.46	113	264053	54.11	ug/l	0.00
Spiked Amount	50.000		Recovery	=	108.22%	
50) Toluene-d8	8.70	98	907692	51.57	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.14%	
62) 4-Bromofluorobenzene	11.12	95	410943	58.33	ug/l	0.00
Spiked Amount	50.000		Recovery	=	116.66%	

Target Compounds

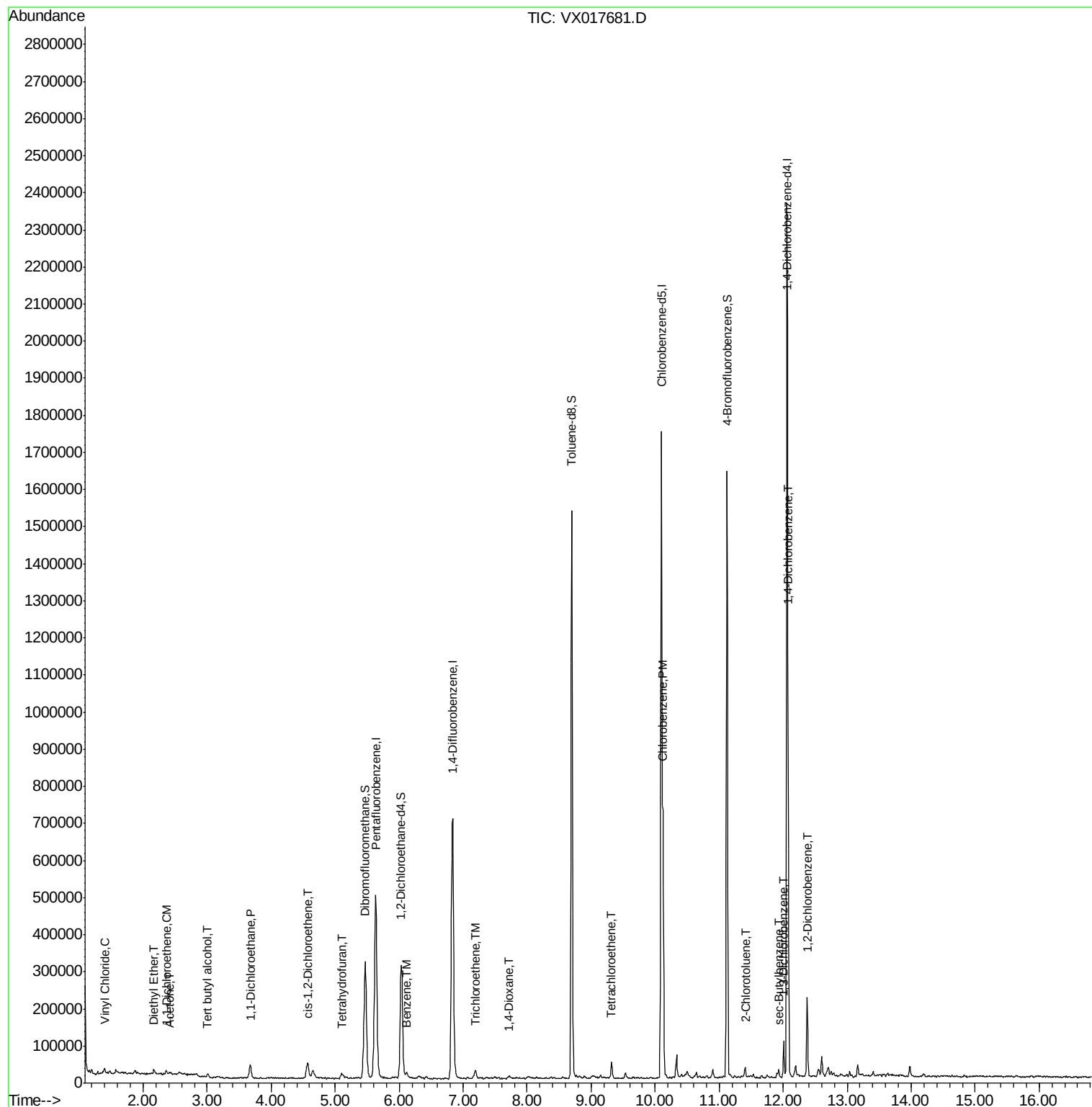
						Qvalue
4) Vinyl Chloride	1.40	62	7089	1.211	ug/l	92
8) Diethyl Ether	2.17	74	4657	0.204	ug/l	82
11) Tert butyl alcohol	3.01	59	14539	11.546	ug/l #	89
12) 1,1-Dichloroethene	2.37	96	3752	0.781	ug/l #	72
16) Acetone	2.42	43	5201	1.978	ug/l #	55
24) 1,1-Dichloroethane	3.67	63	41433	4.484	ug/l	98
27) cis-1,2-Dichloroethene	4.57	96	26051	4.660	ug/l	85
29) Tetrahydrofuran	5.10	42	10642	4.599	ug/l #	73
40) Benzene	6.12	78	15670	0.781	ug/l #	85
44) Trichloroethene	7.19	130	7782	1.327	ug/l	88
49) 1,4-Dioxane	7.72	88	5169	43.056	ug/l #	93
64) Tetrachloroethene	9.32	164	8727	1.259	ug/l	86
65) Chlorobenzene	10.12	112	299080	17.895	ug/l	100
79) 2-Chlorotoluene	11.41	91	13223	0.598	ug/l	98
85) sec-Butylbenzene	11.93	105	8183	0.272	ug/l	97
87) 1,3-Dichlorobenzene	12.01	146	30768	2.023	ug/l	98
88) 1,4-Dichlorobenzene	12.08	146	122555	7.778	ug/l	96
91) 1,2-Dichlorobenzene	12.38	146	70021	4.683	ug/l	98

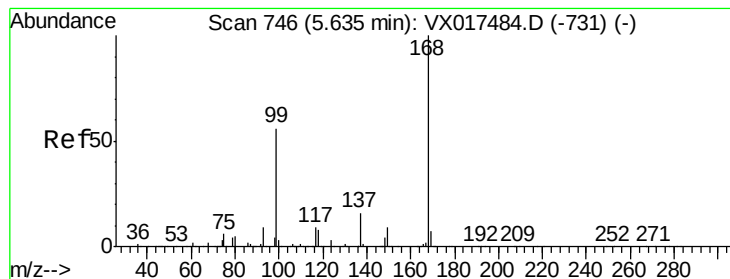
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Fri Jul 24 05:48:09 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.64 min Scan# 746

Delta R.T. -0.00 min

Lab File: VX017681.D

Acq: 30 Jul 2020 14:03

Instrument :

MSVOA_X

ClientSampleId :

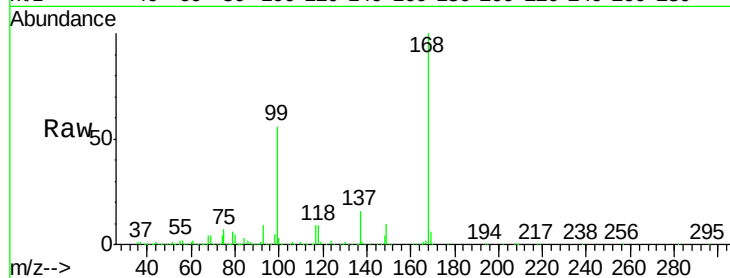
RW-12I

Tot Ion:168 Resp: 465128

Ion Ratio Lower Upper

168 100

99 56.1 43.4 65.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.64

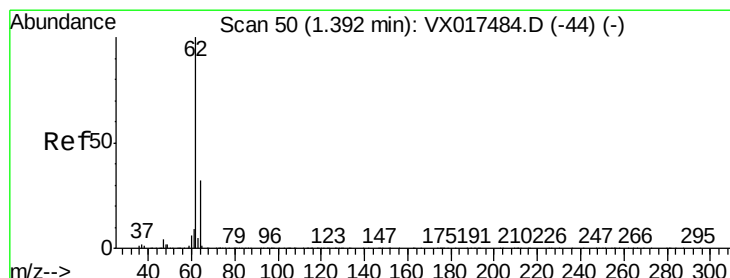
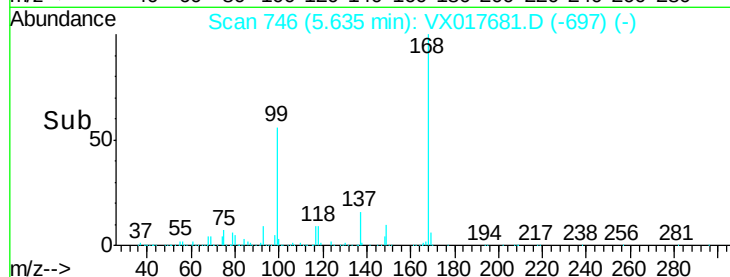
150000

100000

50000

0

Time-->



#4

Vinyl Chloride

Concen: 1.211 ug/l

RT: 1.40 min Scan# 51

Delta R.T. 0.01 min

Lab File: VX017681.D

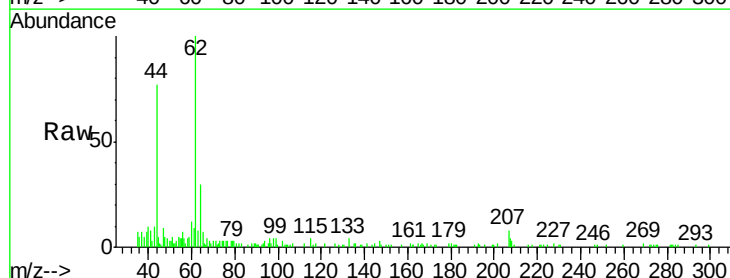
Acq: 30 Jul 2020 14:03

Tgt Ion: 62 Resp: 7089

Ion Ratio Lower Upper

62 100

64 27.2 25.2 37.8



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0

1.40

8000

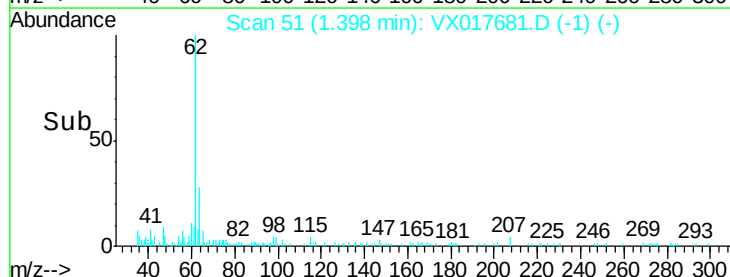
6000

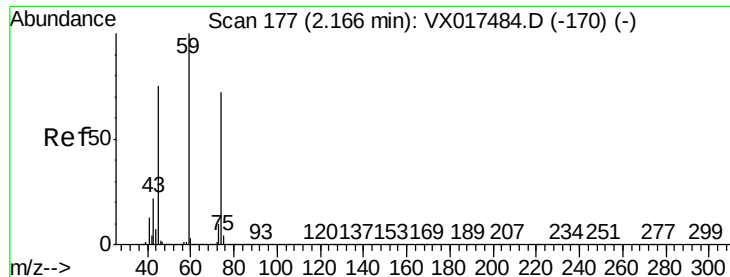
4000

2000

0

Time-->





#8

Diethyl Ether

Concen: 0.204 ug/l

RT: 2.17 min Scan# 178

Delta R.T. 0.01 min

Lab File: VX017681.D

Acq: 30 Jul 2020 14:03

Instrument :

MSVOA_X

ClientSampleId :

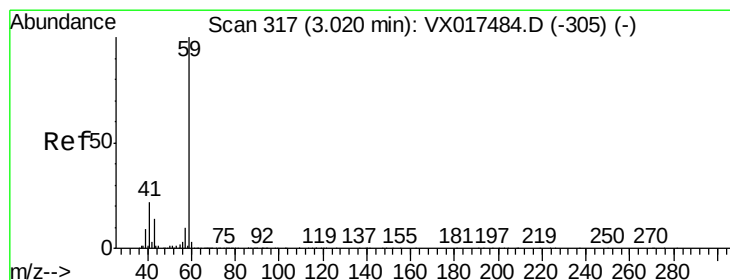
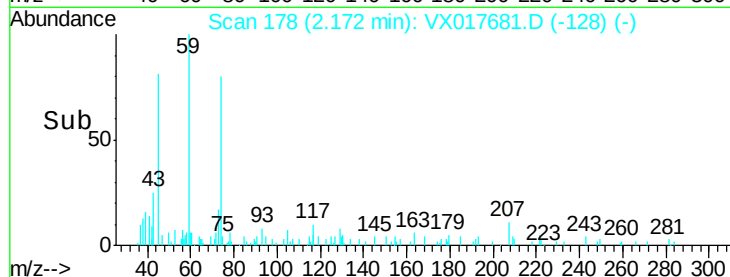
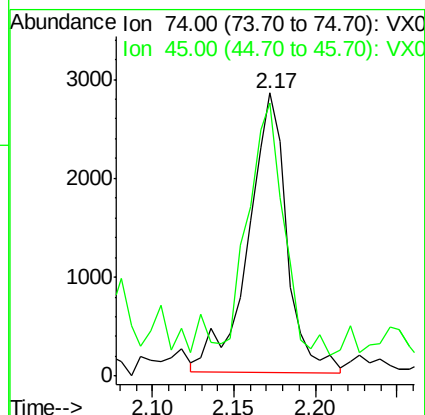
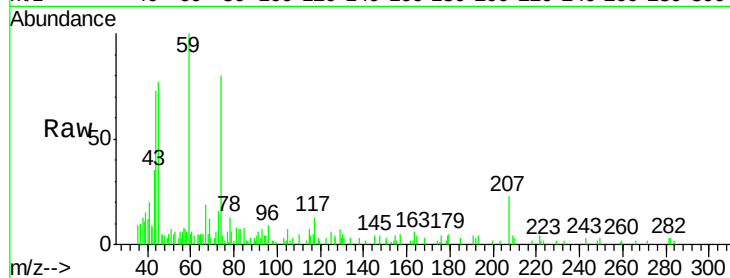
RW-12I

Tot Ion: 74 Resp: 4657

Ion Ratio Lower Upper

74 100

45 83.2 50.8 152.5



#11

Tert butyl alcohol

Concen: 11.546 ug/l

RT: 3.01 min Scan# 315

Delta R.T. -0.01 min

Lab File: VX017681.D

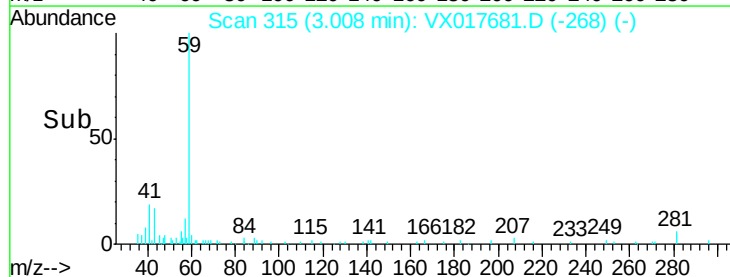
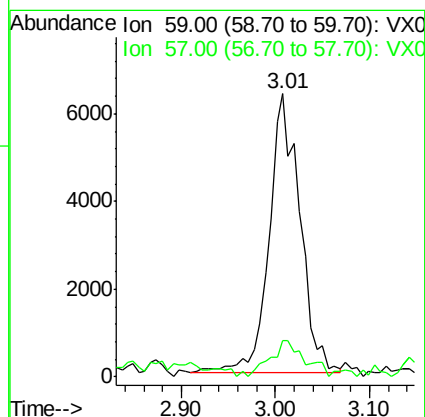
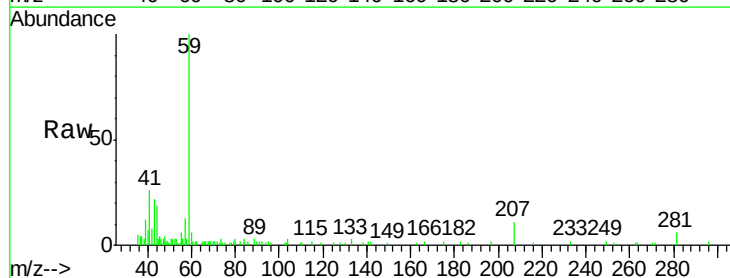
Acq: 30 Jul 2020 14:03

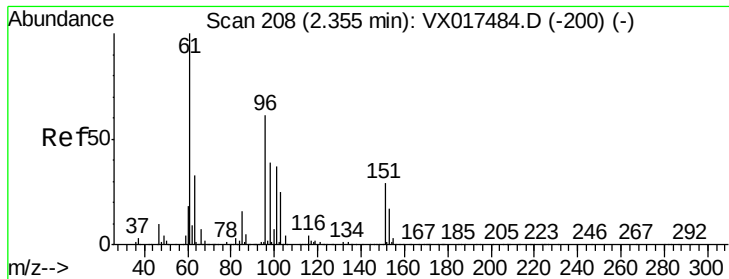
Tgt Ion: 59 Resp: 14539

Ion Ratio Lower Upper

59 100

57 15.0 8.6 12.8#





#12

1,1-Dichloroethene

Concen: 0.781 ug/l

RT: 2.37 min Scan# 210

Delta R.T. 0.01 min

Lab File: VX017681.D

Acq: 30 Jul 2020 14:03

Instrument :

MSVOA_X

ClientSampleId :

RW-12I

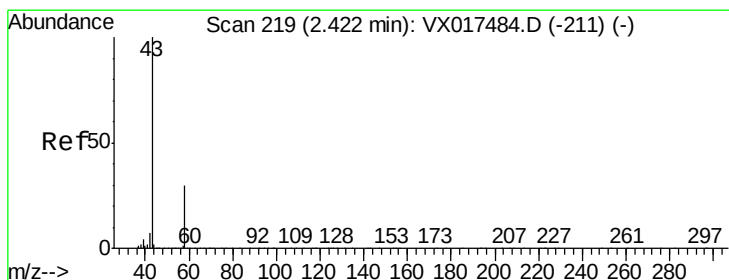
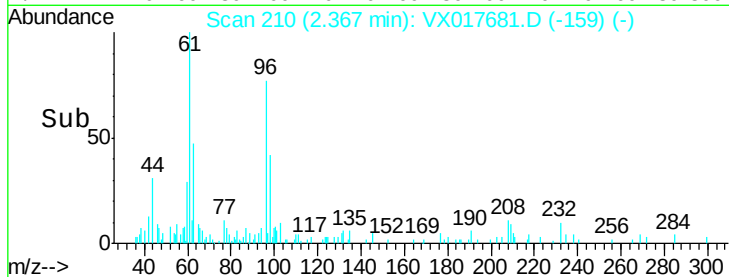
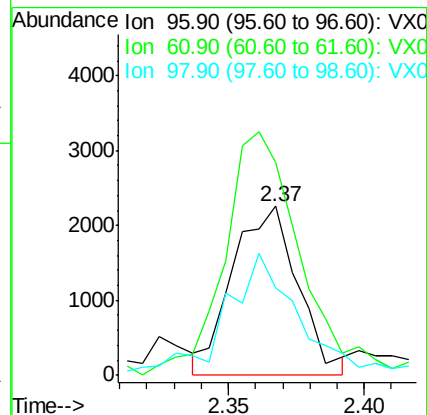
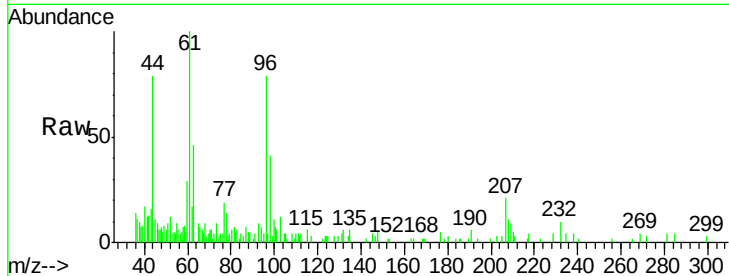
Tot Ion: 96 Resp: 3752

Ion Ratio Lower Upper

96 100

61 127.6 134.0 201.0#

98 45.4 51.0 76.4#



#16

Acetone

Concen: 1.978 ug/l

RT: 2.42 min Scan# 218

Delta R.T. -0.01 min

Lab File: VX017681.D

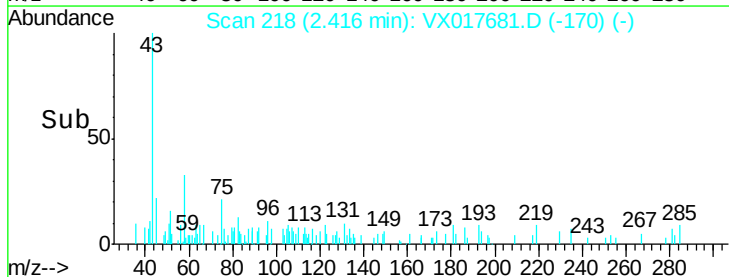
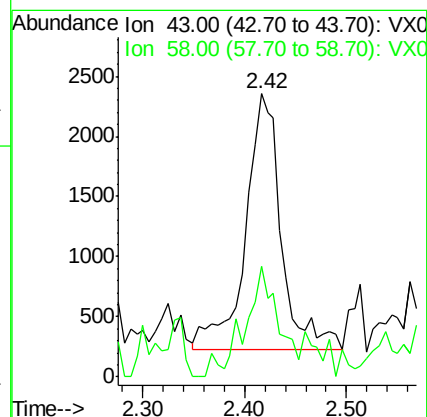
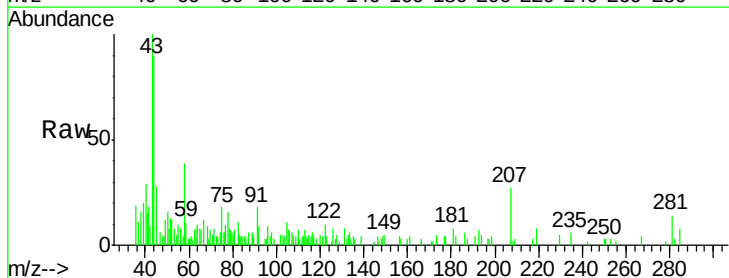
Acq: 30 Jul 2020 14:03

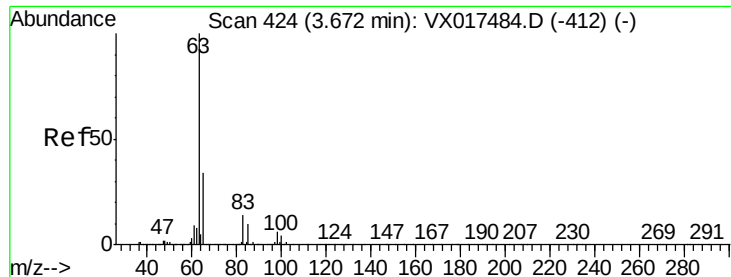
Tgt Ion: 43 Resp: 5201

Ion Ratio Lower Upper

43 100

58 54.9 24.2 36.4#





#24

1,1-Dichloroethane

Concen: 4.484 ug/l

RT: 3.67 min Scan# 423

Delta R.T. -0.01 min

Lab File: VX017681.D

Acq: 30 Jul 2020 14:03

Instrument :

MSVOA_X

ClientSampleId :

RW-12I

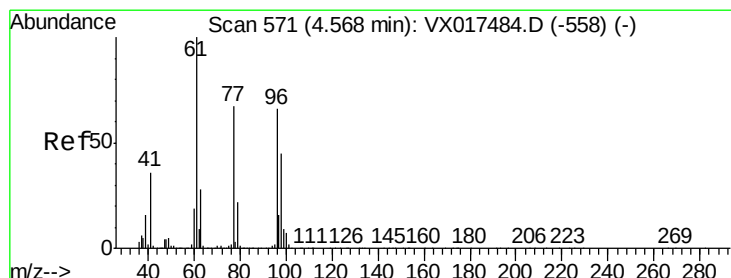
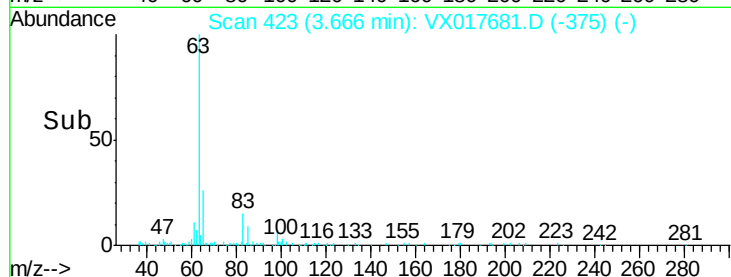
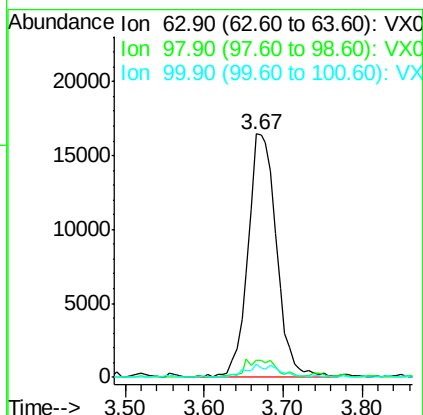
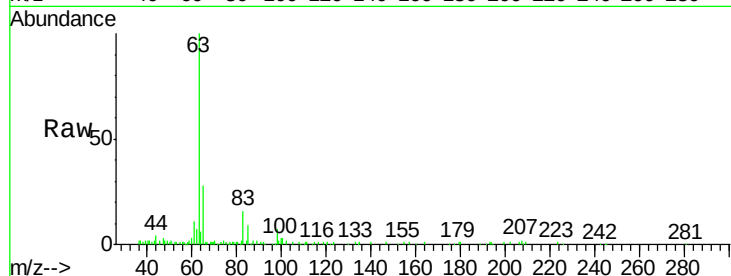
Tot Ion: 63 Resp: 41433

Ion Ratio Lower Upper

63 100

98 7.0 3.4 10.1

100 5.4 1.9 5.7



#27

cis-1,2-Dichloroethene

Concen: 4.660 ug/l

RT: 4.57 min Scan# 571

Delta R.T. -0.00 min

Lab File: VX017681.D

Acq: 30 Jul 2020 14:03

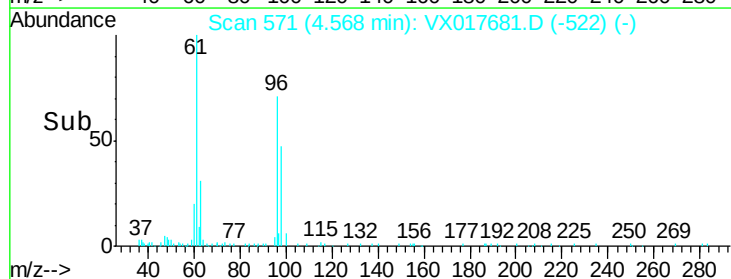
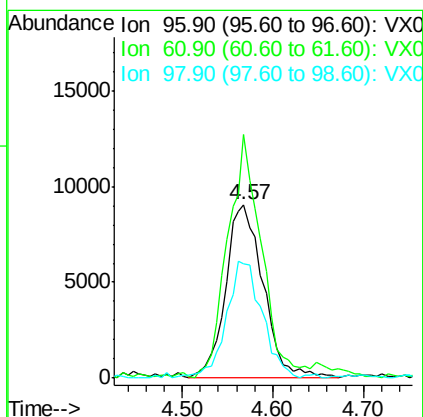
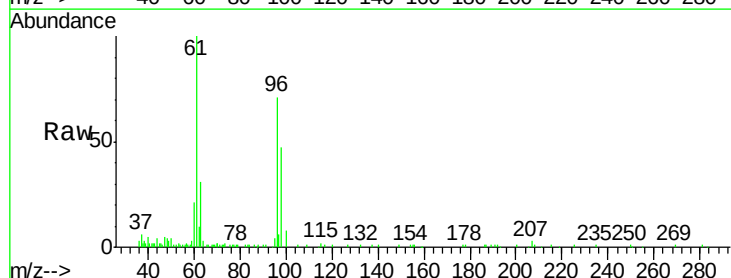
Tgt Ion: 96 Resp: 26051

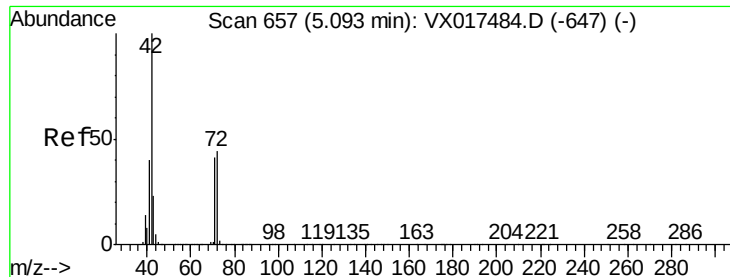
Ion Ratio Lower Upper

96 100

61 124.9 0.0 301.2

98 63.8 0.0 130.0





#29

Tetrahydrofuran

Concen: 4.599 ug/l

RT: 5.10 min Scan# 659

Delta R.T. 0.01 min

Lab File: VX017681.D

Acq: 30 Jul 2020 14:03

Instrument :

MSVOA_X

ClientSampled :

RW-12I

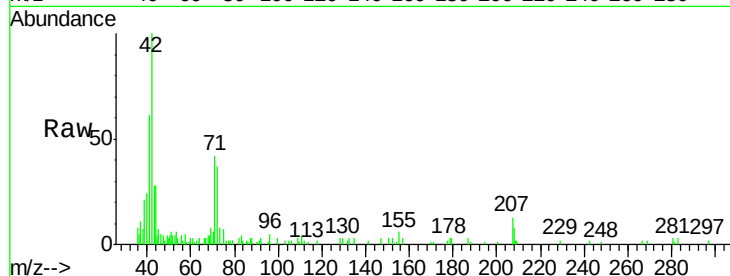
Tot Ion: 42 Resp: 10642

Ion Ratio Lower Upper

42 100

72 18.2 35.5 53.3#

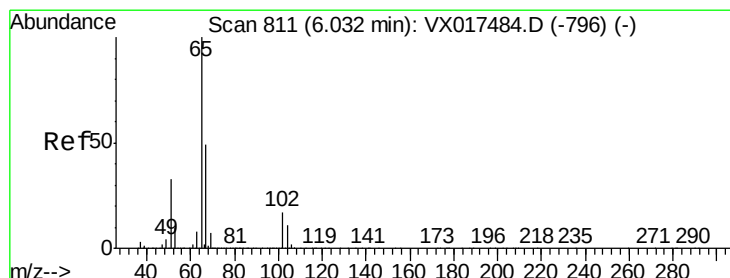
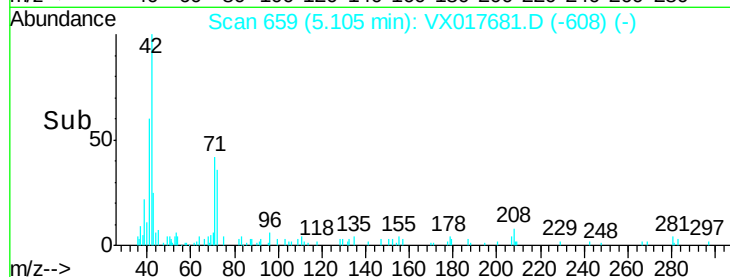
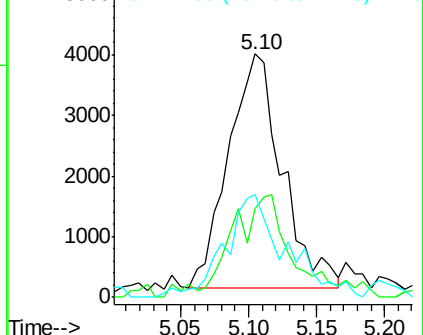
71 49.8 33.0 49.4#



Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0



#33

1,2-Dichloroethane-d4

Concen: 53.025 ug/l

RT: 6.03 min Scan# 811

Delta R.T. -0.00 min

Lab File: VX017681.D

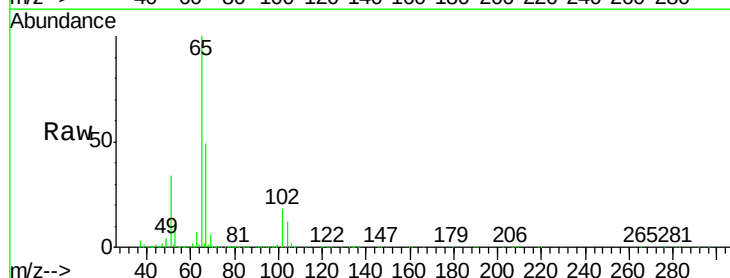
Acq: 30 Jul 2020 14:03

Tgt Ion: 65 Resp: 316815

Ion Ratio Lower Upper

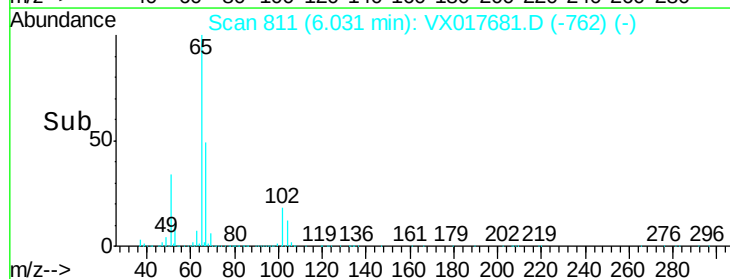
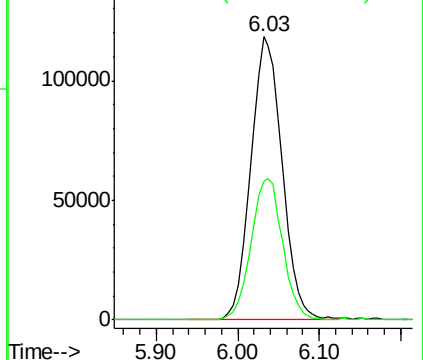
65 100

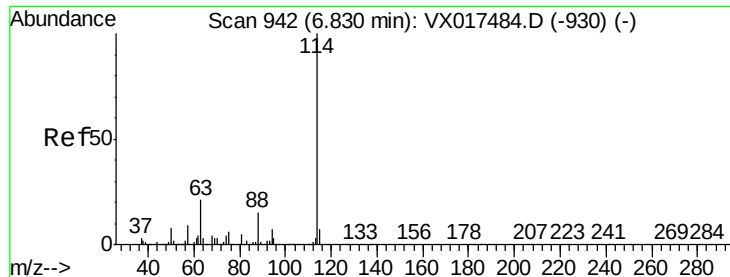
67 49.8 0.0 102.8



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.84 min Scan# 943

Delta R.T. 0.01 min

Lab File: VX017681.D

Acq: 30 Jul 2020 14:03

Instrument :

MSVOA_X

ClientSampleId :

RW-12I

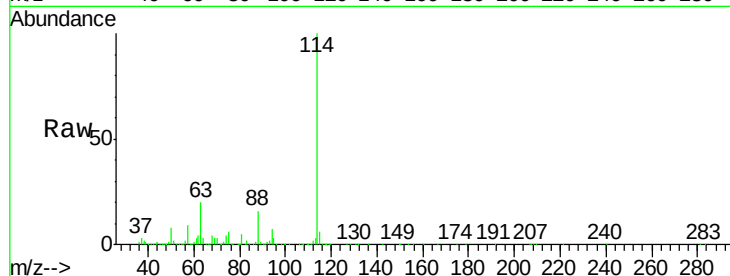
Tot Ion:114 Resp: 729590

Ion Ratio Lower Upper

114 100

63 20.5 0.0 40.6

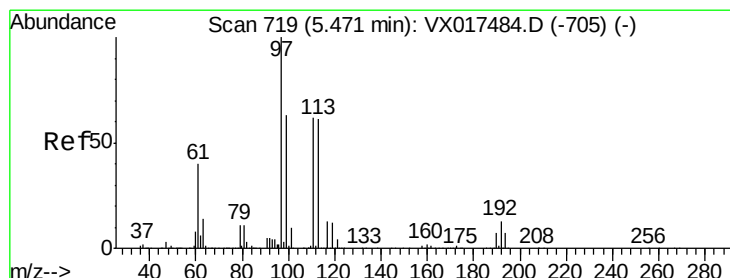
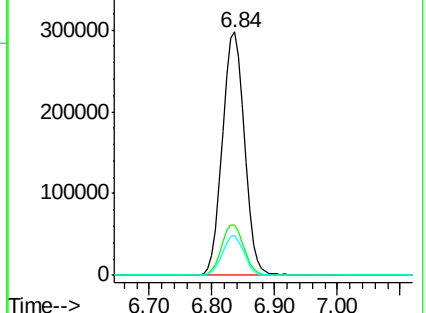
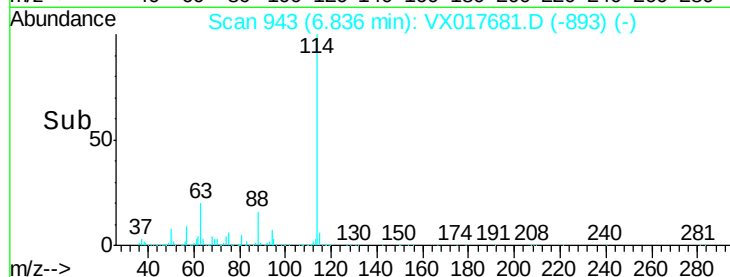
88 16.3 0.0 33.4



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0



#35

Dibromofluoromethane

Concen: 54.114 ug/l

RT: 5.46 min Scan# 718

Delta R.T. -0.01 min

Lab File: VX017681.D

Acq: 30 Jul 2020 14:03

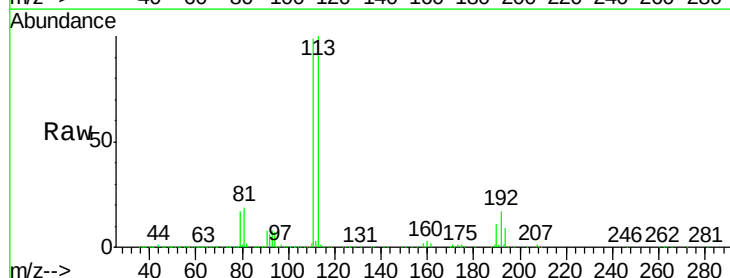
Tgt Ion:113 Resp: 264053

Ion Ratio Lower Upper

113 100

111 102.3 80.7 121.1

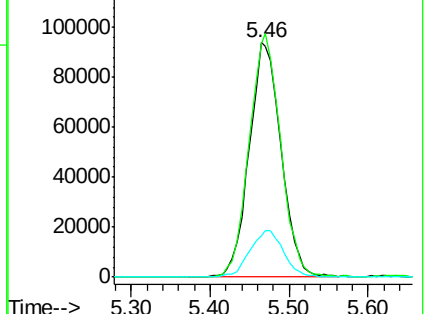
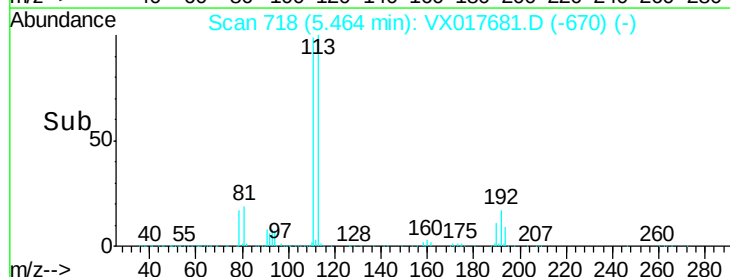
192 20.9 16.9 25.3

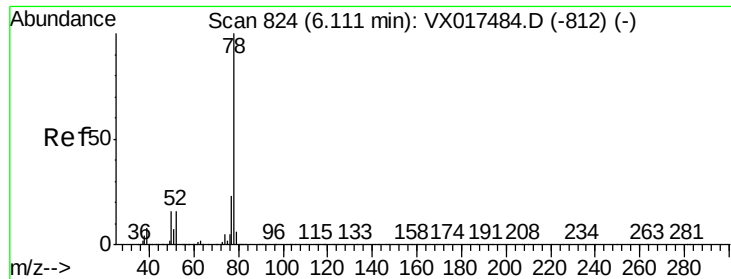


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#40

Benzene

Concen: 0.781 ug/l

RT: 6.12 min Scan# 825

Delta R.T. 0.01 min

Lab File: VX017681.D

Acq: 30 Jul 2020 14:03

Instrument :

MSVOA_X

ClientSampleId :

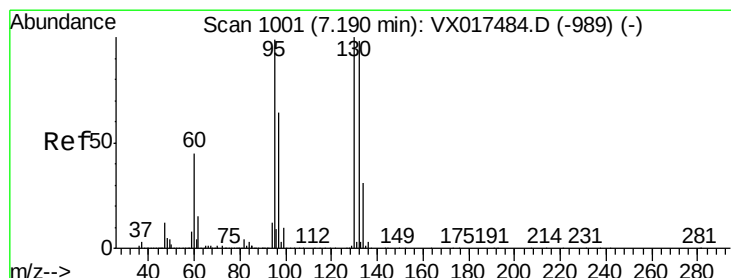
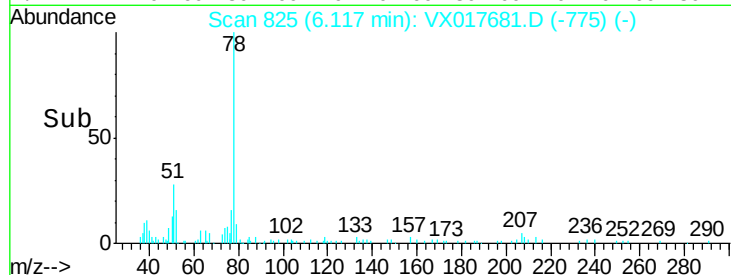
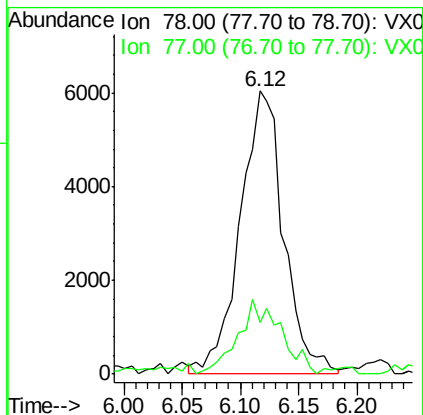
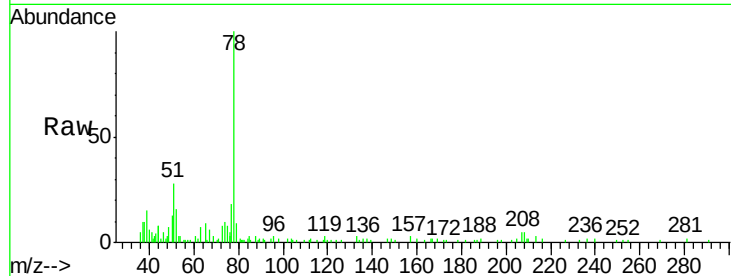
RW-12I

Tot Ion: 78 Resp: 15670

Ion Ratio Lower Upper

78 100

77 17.0 19.4 29.2#



#44

Trichloroethene

Concen: 1.327 ug/l

RT: 7.19 min Scan# 1001

Delta R.T. -0.00 min

Lab File: VX017681.D

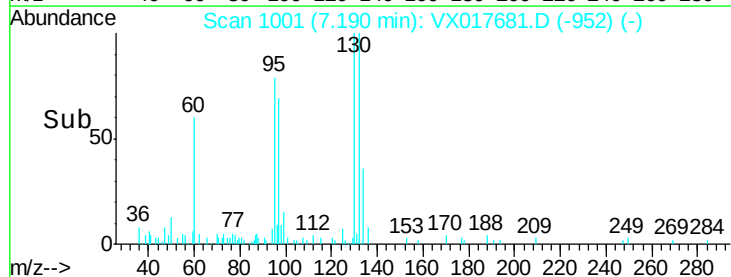
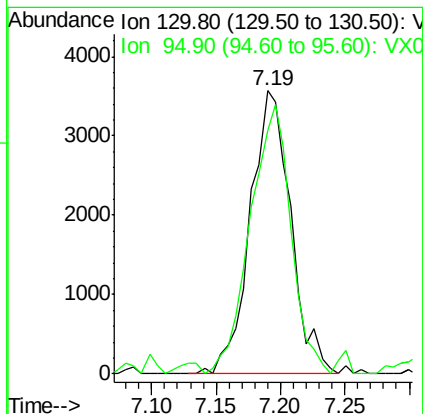
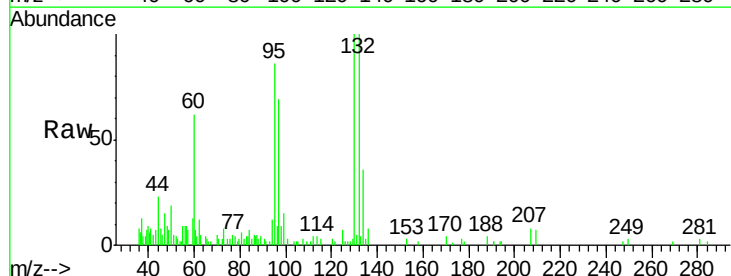
Acq: 30 Jul 2020 14:03

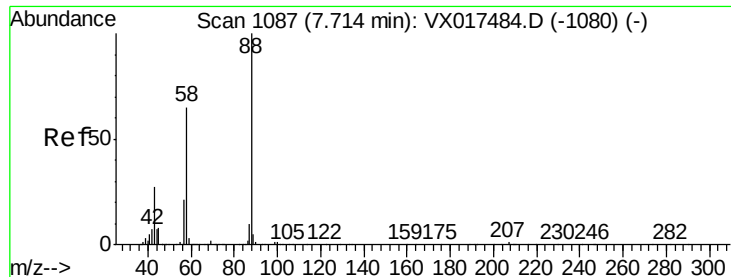
Tgt Ion:130 Resp: 7782

Ion Ratio Lower Upper

130 100

95 82.4 0.0 189.0

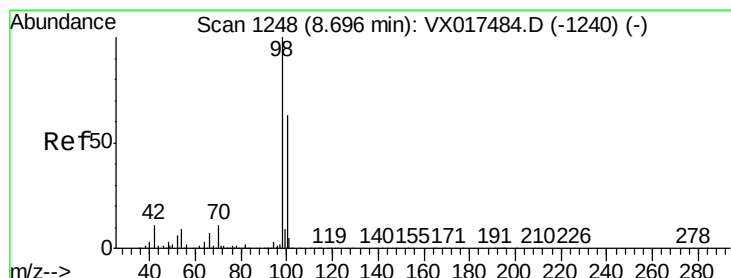
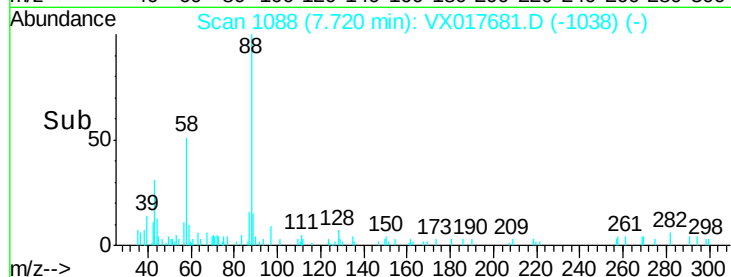
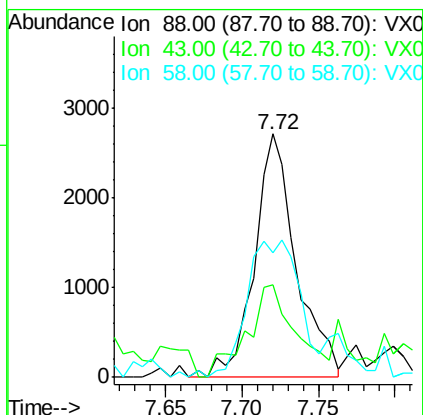
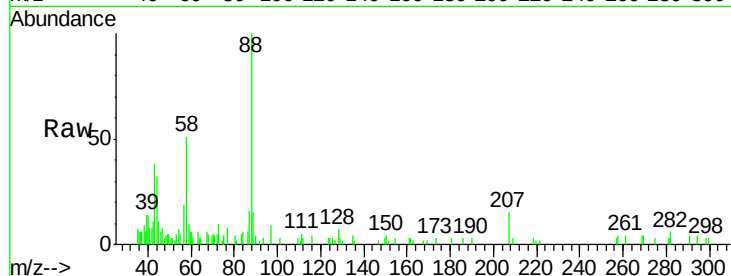




#49
1,4-Dioxane
Concen: 43.056 ug/l
RT: 7.72 min Scan# 1088
Delta R.T. 0.01 min
Lab File: VX017681.D
Acq: 30 Jul 2020 14:03

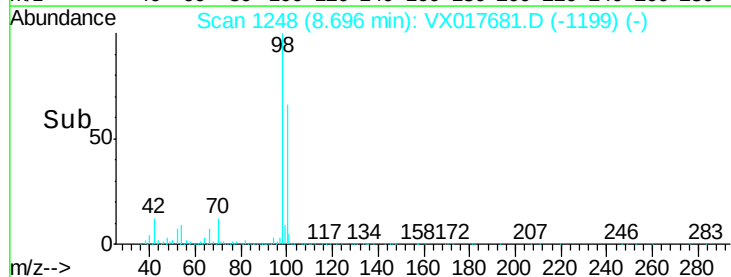
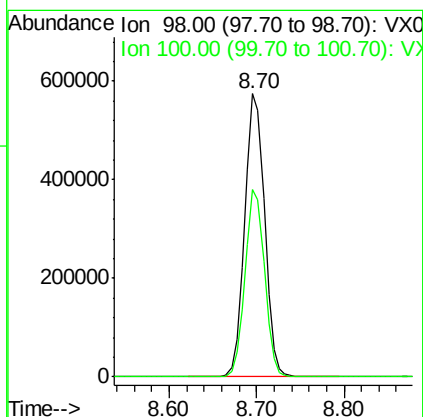
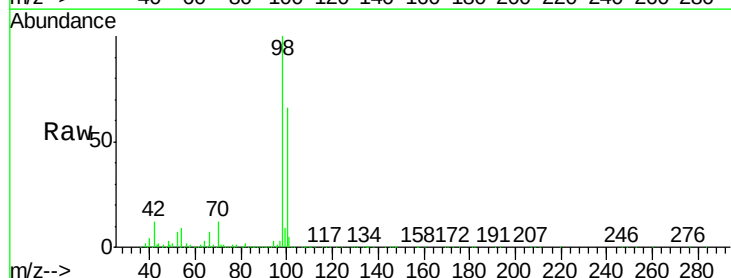
Instrument :
MSVOA_X
ClientSampleId :
RW-12I

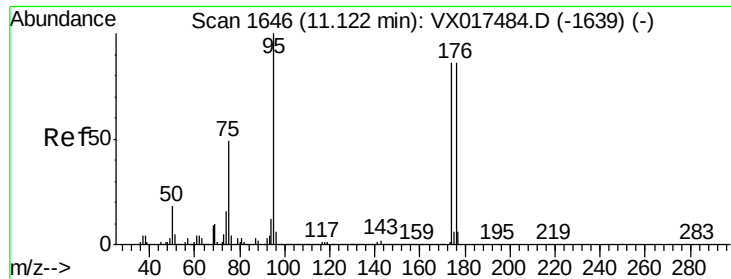
Tot Ion	88	Resp	5169
Ion	Ratio	Lower	Upper
88	100		
43	44.5	27.8	41.6#
58	70.8	58.3	87.5



#50
Toluene-d8
Concen: 51.565 ug/l
RT: 8.70 min Scan# 1248
Delta R.T. -0.00 min
Lab File: VX017681.D
Acq: 30 Jul 2020 14:03

Tgt Ion	98	Resp	907692
Ion	Ratio	Lower	Upper
98	100		
100	64.8	52.3	78.5





#62

4-Bromofluorobenzene

Concen: 58.334 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX017681.D

Acq: 30 Jul 2020 14:03

Instrument :

MSVOA_X

ClientSampleId :

RW-12I

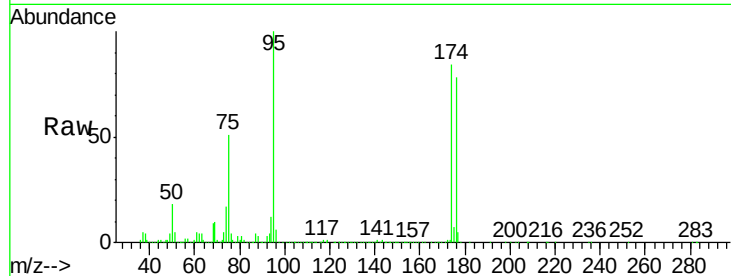
Tot Ion: 95 Resp: 410943

Ion Ratio Lower Upper

95 100

174 85.7 0.0 169.0

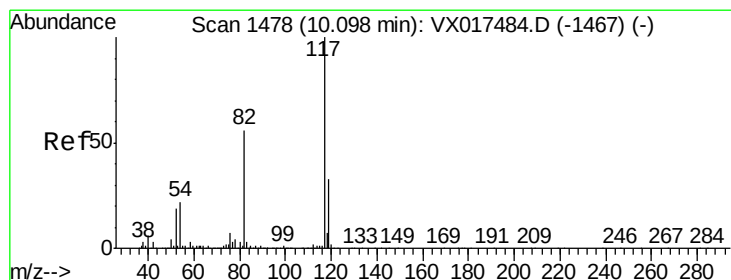
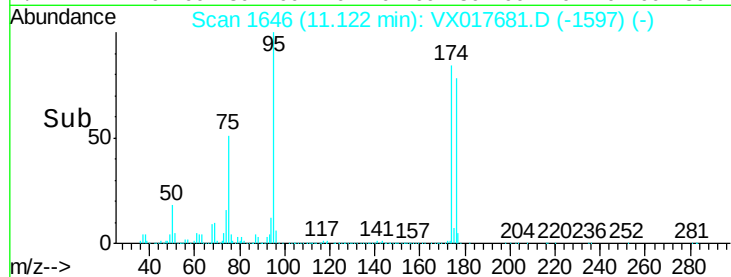
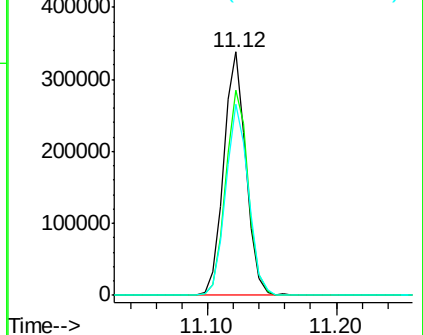
176 80.2 0.0 161.0



Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): VX0

Ion 175.80 (175.50 to 176.50): VX0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.10 min Scan# 1478

Delta R.T. -0.00 min

Lab File: VX017681.D

Acq: 30 Jul 2020 14:03

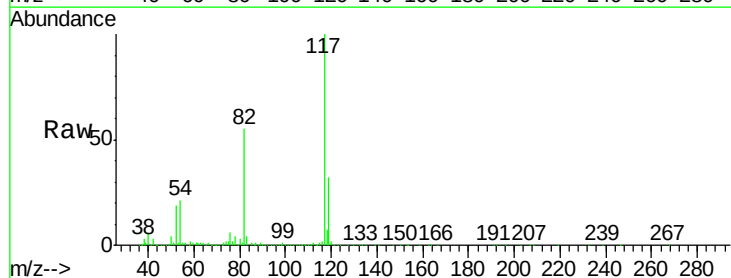
Tgt Ion: 117 Resp: 772131

Ion Ratio Lower Upper

117 100

82 54.7 44.0 66.0

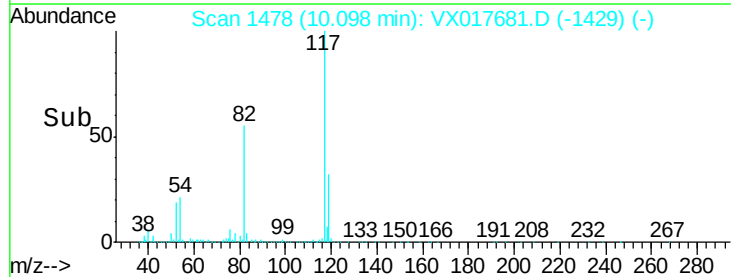
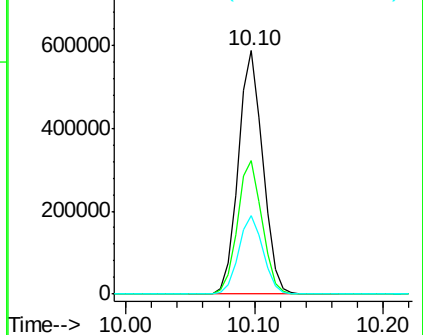
119 32.4 25.4 38.0

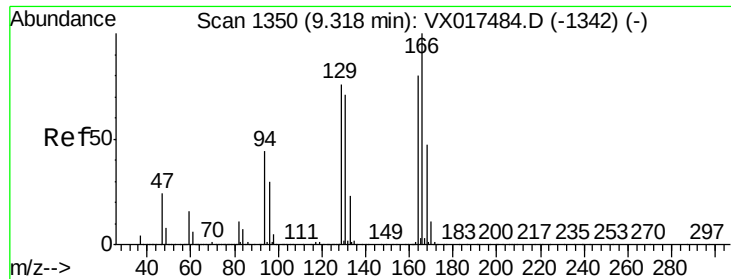


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V





#64

Tetrachloroethene

Concen: 1.259 ug/l

RT: 9.32 min Scan# 1350

Delta R.T. -0.00 min

Lab File: VX017681.D

Acq: 30 Jul 2020 14:03

Instrument :

MSVOA_X

ClientSampleId :

RW-12I

Tot Ion:164 Resp: 8727

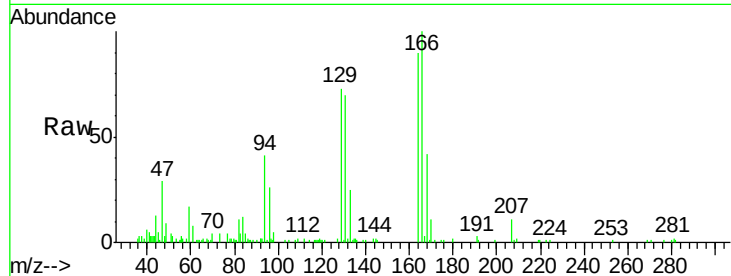
Ion Ratio Lower Upper

164 100

166 111.5 100.6 150.8

129 81.6 75.0 112.6

131 77.6 75.2 112.8

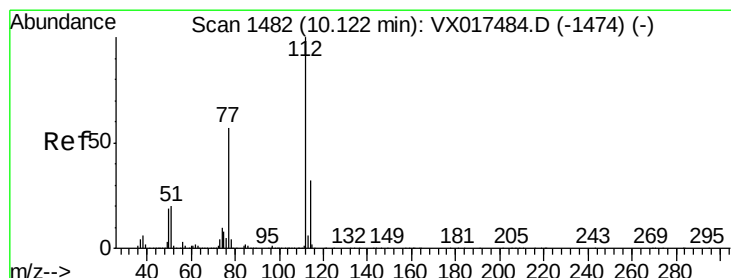
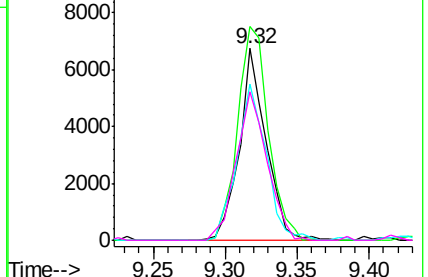
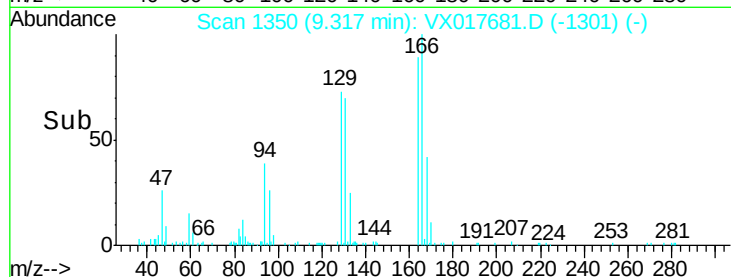


Abundance Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V



#65

Chlorobenzene

Concen: 17.895 ug/l

RT: 10.12 min Scan# 1482

Delta R.T. -0.00 min

Lab File: VX017681.D

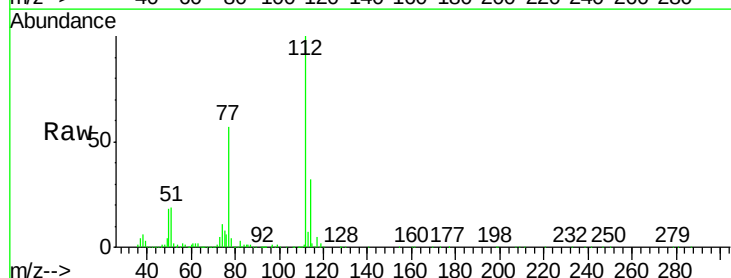
Acq: 30 Jul 2020 14:03

Tgt Ion:112 Resp: 299080

Ion Ratio Lower Upper

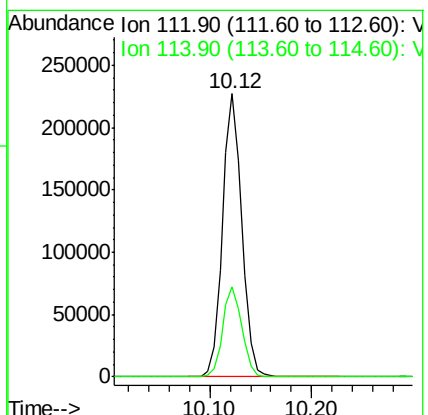
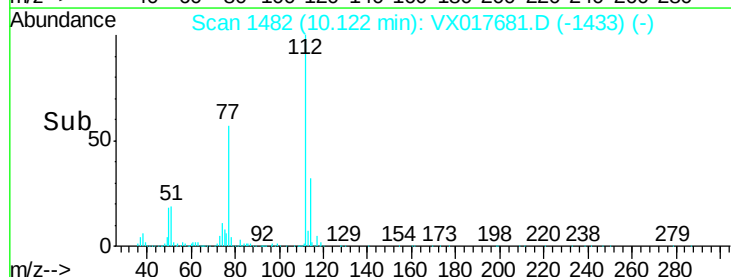
112 100

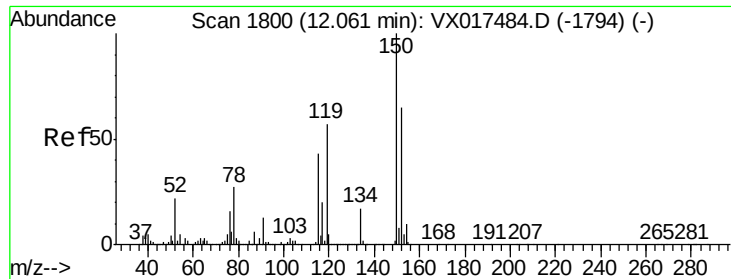
114 31.9 25.7 38.5



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1800

Delta R.T. -0.00 min

Lab File: VX017681.D

Acq: 30 Jul 2020 14:03

Instrument :

MSVOA_X

ClientSampleId :

RW-12I

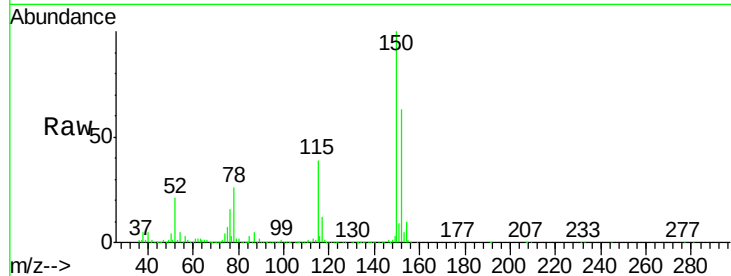
Tot Ion:152 Resp: 461272

Ion Ratio Lower Upper

152 100

115 58.9 65.5 196.6#

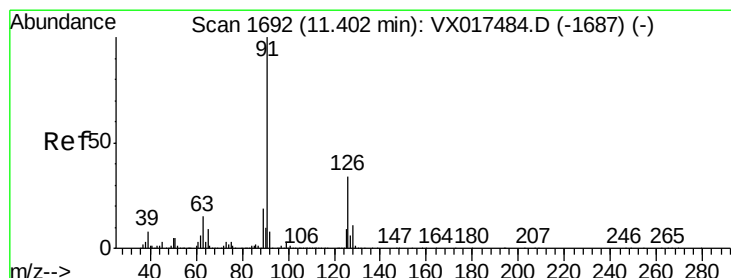
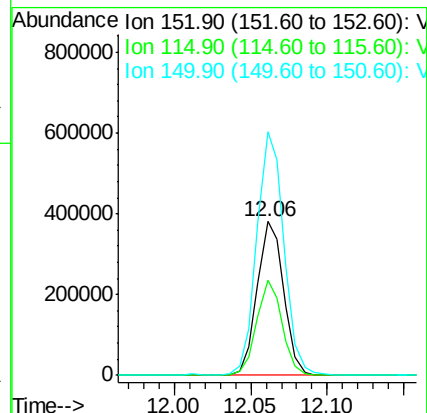
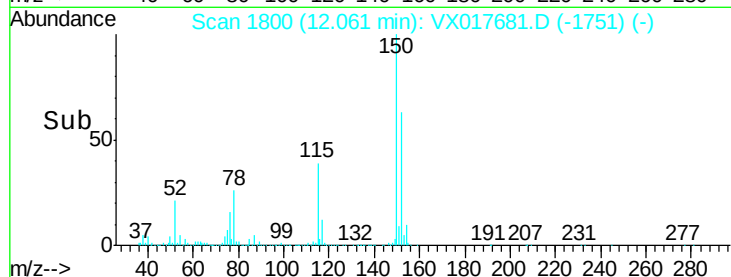
150 161.1 0.0 412.6



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#79

2-Chlorotoluene

Concen: 0.598 ug/l

RT: 11.41 min Scan# 1693

Delta R.T. 0.01 min

Lab File: VX017681.D

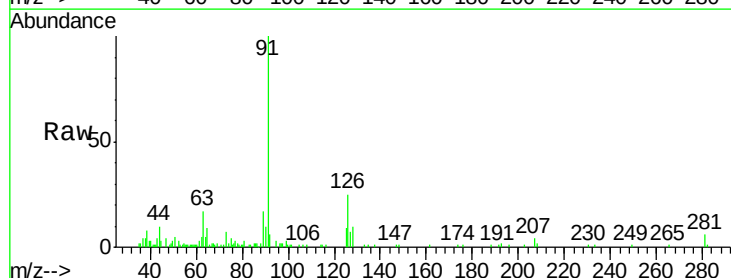
Acq: 30 Jul 2020 14:03

Tgt Ion: 91 Resp: 13223

Ion Ratio Lower Upper

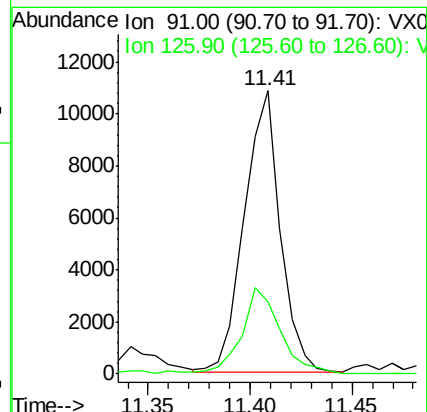
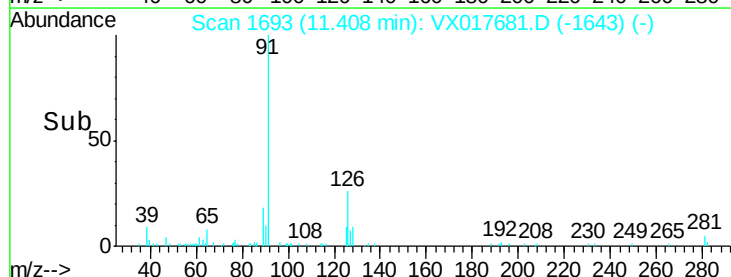
91 100

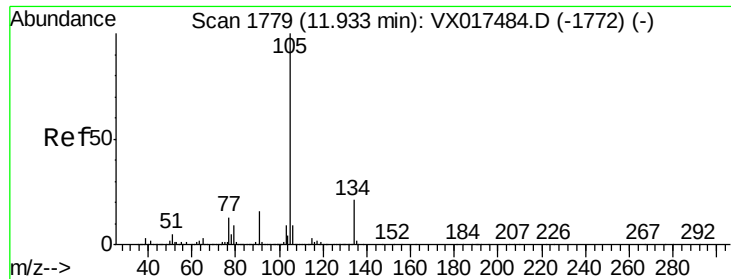
126 33.6 17.5 52.5



Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 125.90 (125.60 to 126.60): V





#85

sec-Butylbenzene

Concen: 0.272 ug/l

RT: 11.93 min Scan# 1778

Delta R.T. -0.01 min

Lab File: VX017681.D

Acq: 30 Jul 2020 14:03

Instrument :

MSVOA_X

ClientSampleId :

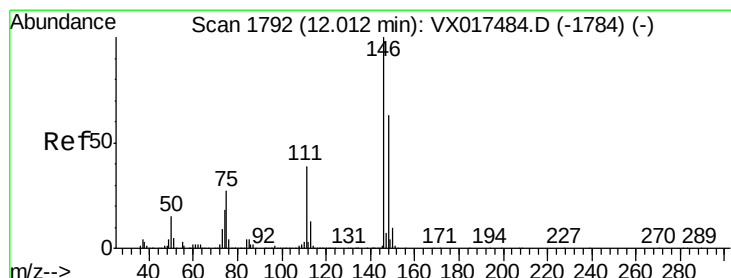
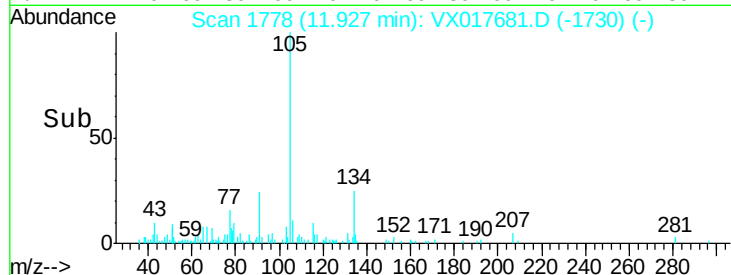
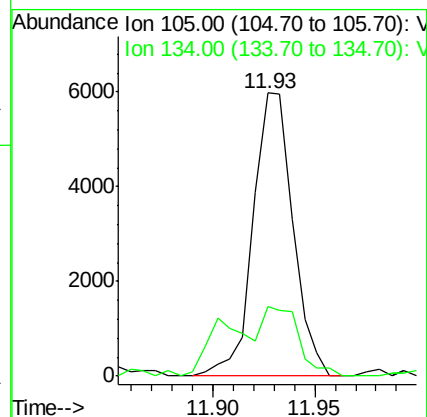
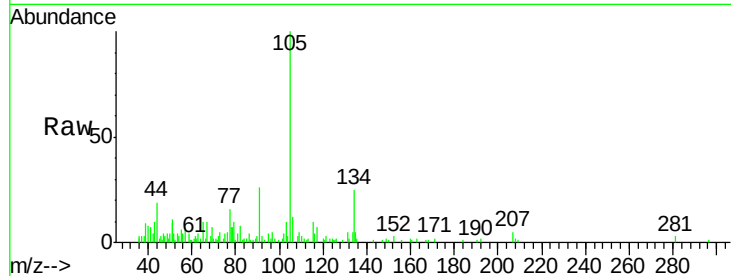
RW-12I

Tot Ion:105 Resp: 8183

Ion Ratio Lower Upper

105 100

134 22.0 10.4 31.2



#87

1,3-Dichlorobenzene

Concen: 2.023 ug/l

RT: 12.01 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX017681.D

Acq: 30 Jul 2020 14:03

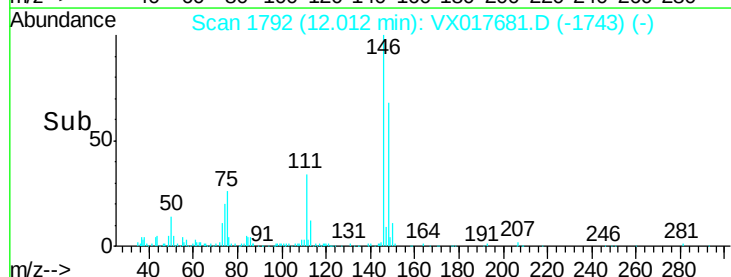
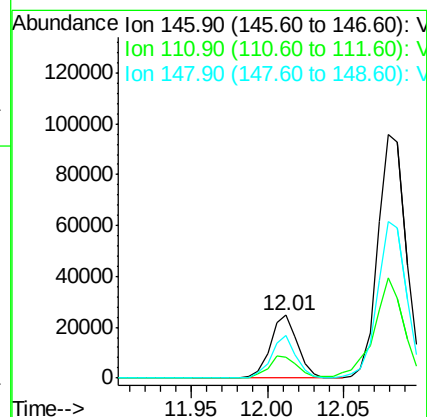
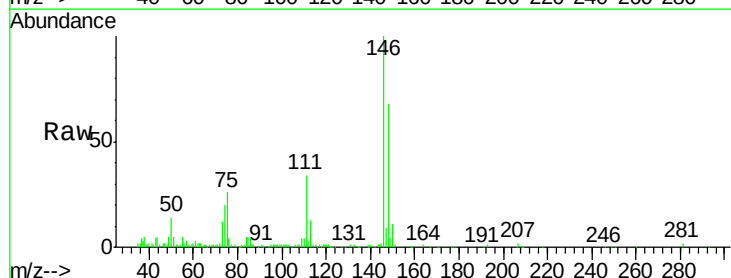
Tgt Ion:146 Resp: 30768

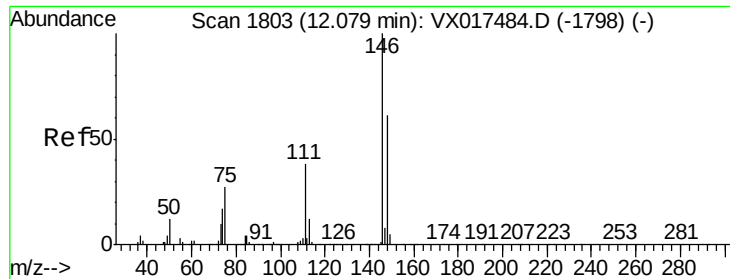
Ion Ratio Lower Upper

146 100

111 38.4 19.9 59.7

148 62.2 31.6 95.0





#88

1,4-Dichlorobenzene

Concen: 7.778 ug/l

RT: 12.08 min Scan# 1803

Delta R.T. -0.00 min

Lab File: VX017681.D

Acq: 30 Jul 2020 14:03

Instrument :

MSVOA_X

ClientSampleId :

RW-12I

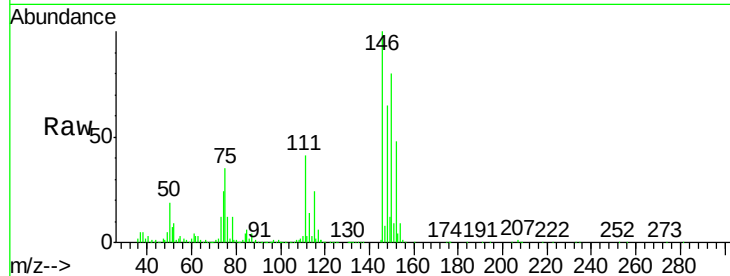
Tot Ion:146 Resp: 122555

Ion Ratio Lower Upper

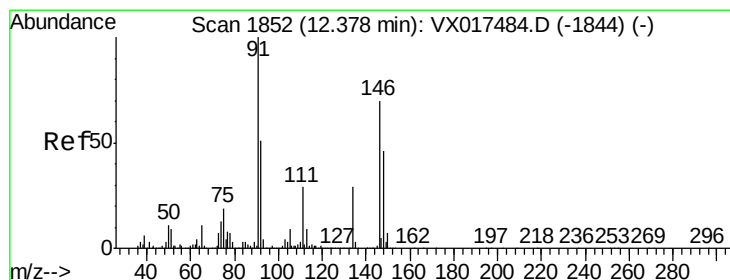
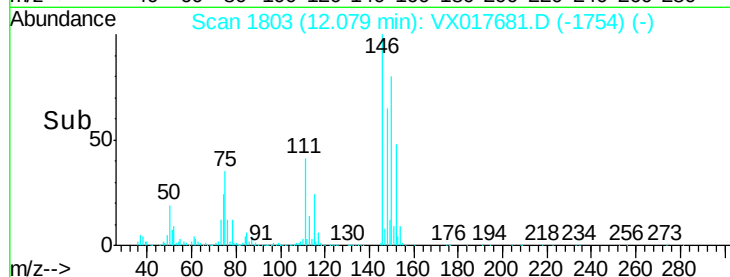
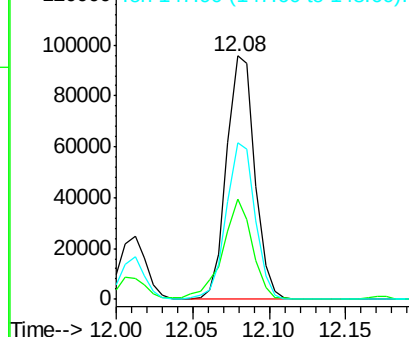
146 100

111 43.2 19.3 57.8

148 66.2 32.2 96.6



Abundance Ion 145.90 (145.60 to 146.60): V
Ion 110.90 (110.60 to 111.60): V
Ion 147.90 (147.60 to 148.60): V



#91

1,2-Dichlorobenzene

Concen: 4.683 ug/l

RT: 12.38 min Scan# 1852

Delta R.T. -0.00 min

Lab File: VX017681.D

Acq: 30 Jul 2020 14:03

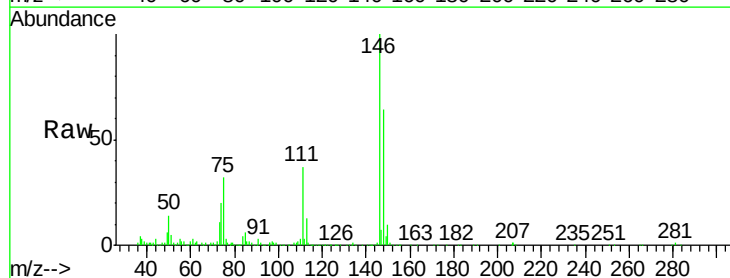
Tgt Ion:146 Resp: 70021

Ion Ratio Lower Upper

146 100

111 39.7 20.9 62.8

148 64.3 32.8 98.4



Abundance Ion 145.90 (145.60 to 146.60): V
Ion 110.90 (110.60 to 111.60): V
Ion 147.90 (147.60 to 148.60): V

