

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX050219\
 Data File : VX009280.D
 Acq On : 02 May 2019 18:01
 Operator : JC/SP
 Sample : K2659-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 SS050MW600-190429

Quant Time: May 03 02:43:44 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X042919W.M
 Quant Title : SW846 8260
 QLast Update : Tue Apr 30 07:03:50 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	188050	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	306627	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	266114	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	111859	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.06	65	126257	49.18	ug/l	0.00
Spiked Amount			Recovery	=	98.36%	
35) Dibromofluoromethane	5.50	113	93166	48.33	ug/l	0.00
Spiked Amount			Recovery	=	96.66%	
50) Toluene-d8	8.71	98	379669	48.79	ug/l	0.00
Spiked Amount			Recovery	=	97.58%	
62) 4-Bromofluorobenzene	11.13	95	126472	44.73	ug/l	0.00
Spiked Amount			Recovery	=	89.46%	

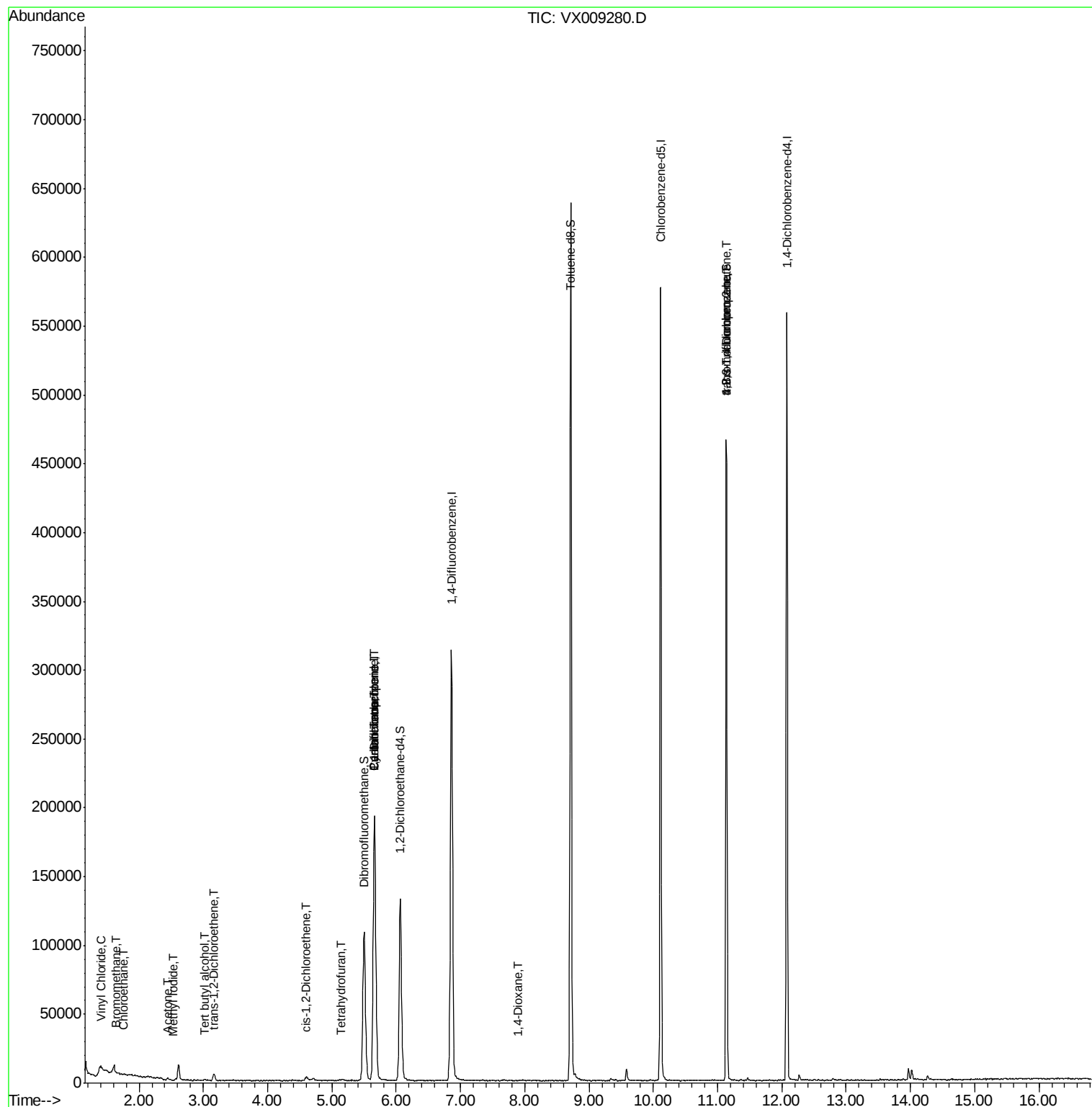
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Vinyl Chloride	1.40	62	1543	0.669	ug/l #	36
5) Bromomethane	1.65	94	314	0.227	ug/l #	41
6) Chloroethane	1.76	64	390	0.263	ug/l #	73
10) Methyl Iodide	2.52	142	125	4.649	ug/l #	42
11) Tert butyl alcohol	3.01	59	375	0.631	ug/l	99
16) Acetone	2.44	43	2067	1.500	ug/l	92
21) trans-1,2-Dichloroethene	3.17	96	1816	0.949	ug/l #	94
27) cis-1,2-Dichloroethene	4.60	96	1539	0.674	ug/l	99
28) Bromochloromethane	5.01	49	73	Below Cal	#	20
29) Tetrahydrofuran	5.14	42	688	0.499	ug/l #	68
31) Cyclohexane	5.66	56	4037	1.064	ug/l #	1
36) 1,1-Dichloropropene	5.66	75	14631	5.135	ug/l #	51
38) Carbon Tetrachloride	5.66	117	17445	6.738	ug/l #	15
49) 1,4-Dioxane	7.90	88	20	0.313	ug/l #	1
76) 1,2,3-Trichloropropane	11.13	75	64408	24.823	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.13	75	64408	63.512	ug/l #	10

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.01 min

Lab File: VX009280.D

Acq: 02 May 2019 18:01

Instrument :

MSVOA_X

ClientSampleId :

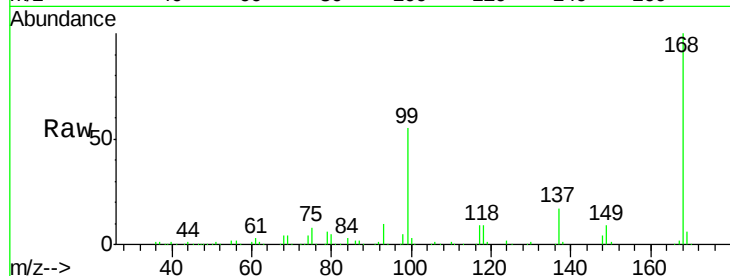
SS050MW600-190429

Tot Ion:168 Resp: 188050

Ion Ratio Lower Upper

168 100

99 55.4 42.3 63.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.66

60000

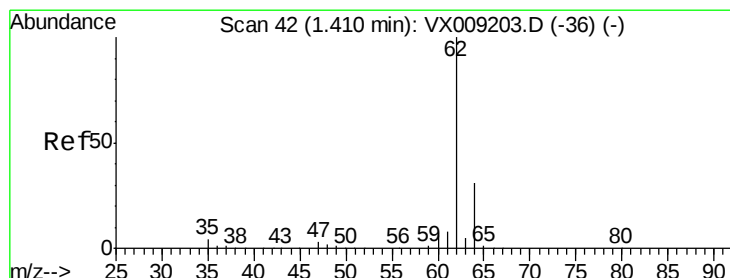
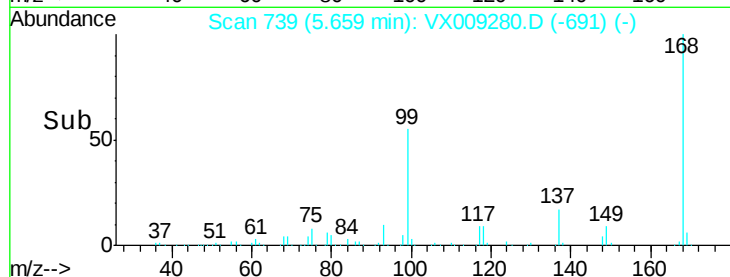
40000

20000

0

Time-->

5.50 5.60 5.70 5.80 5.90



#4

Vinyl Chloride

Concen: 0.669 ug/l

RT: 1.40 min Scan# 41

Delta R.T. -0.01 min

Lab File: VX009280.D

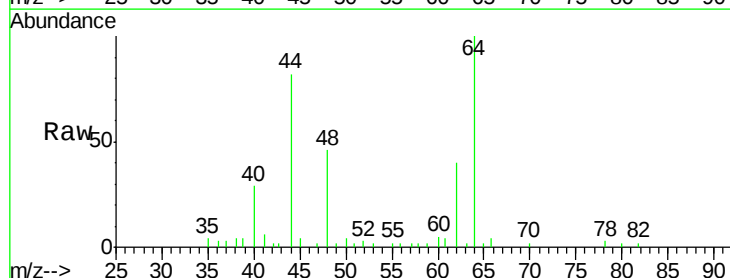
Acq: 02 May 2019 18:01

Tgt Ion: 62 Resp: 1543

Ion Ratio Lower Upper

62 100

64 65.6 24.6 36.8#



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0

3000

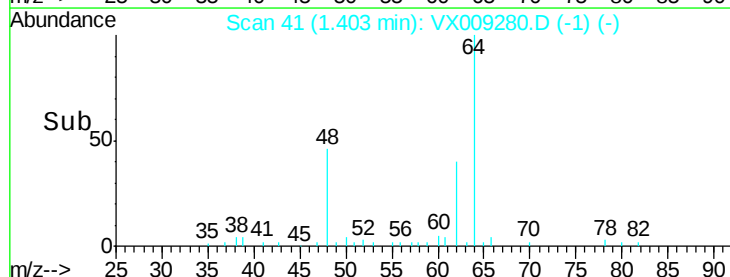
2000

1000

0

Time-->

1.35 1.40 1.45





#5

Bromomethane

Concen: 0.227 ug/l

RT: 1.65 min Scan# 82

Delta R.T. 0.02 min

Lab File: VX009280.D

Acq: 02 May 2019 18:01

Instrument :

MSVOA_X

ClientSampleId :

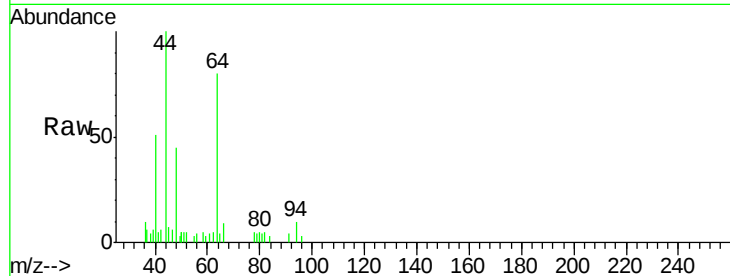
SS050MW600-190429

Tot Ion: 94 Resp: 314

Ion Ratio Lower Upper

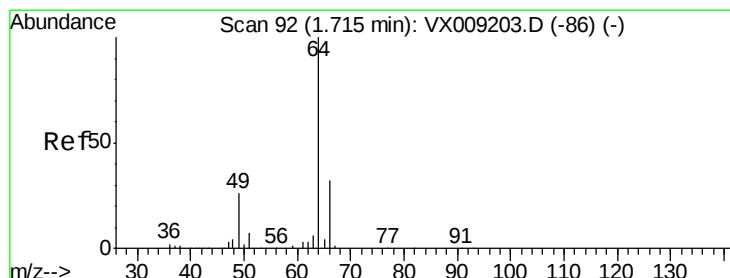
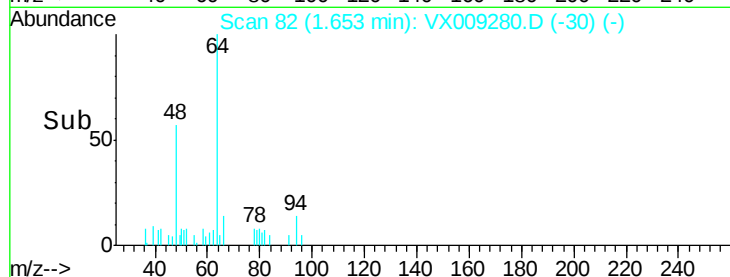
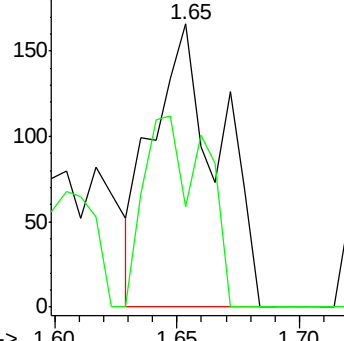
94 100

96 35.5 73.0 109.6#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#6

Chloroethane

Concen: 0.263 ug/l

RT: 1.76 min Scan# 99

Delta R.T. 0.04 min

Lab File: VX009280.D

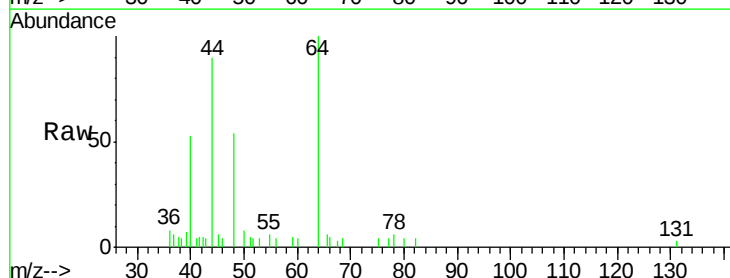
Acq: 02 May 2019 18:01

Tgt Ion: 64 Resp: 390

Ion Ratio Lower Upper

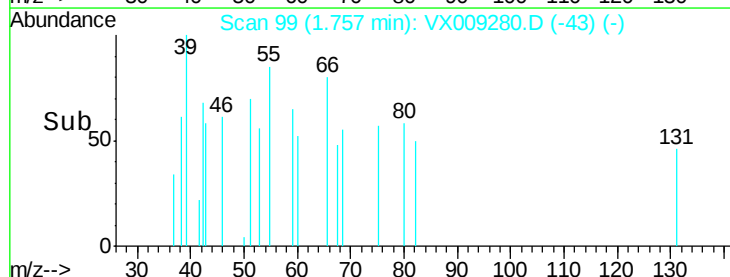
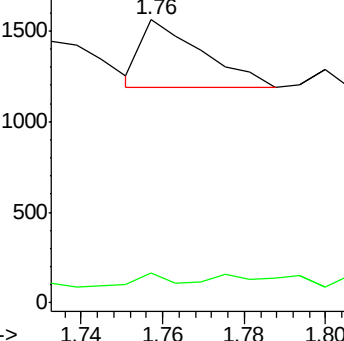
64 100

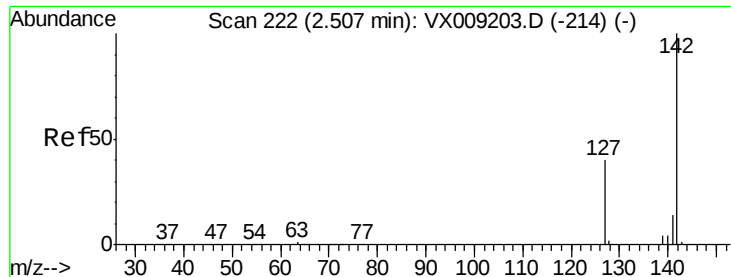
66 16.8 25.3 37.9#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

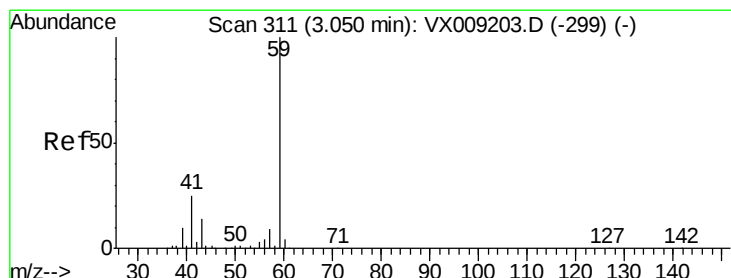
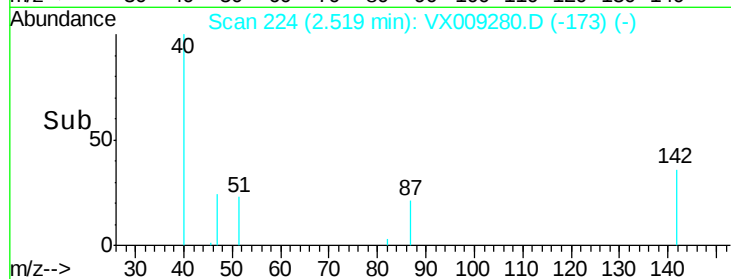
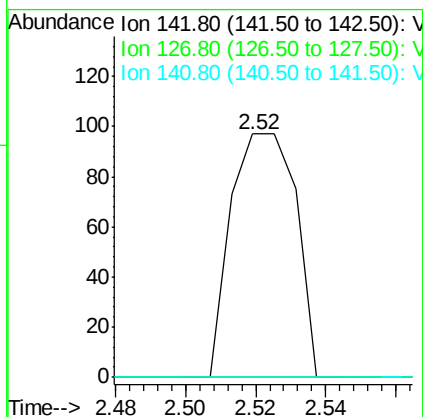
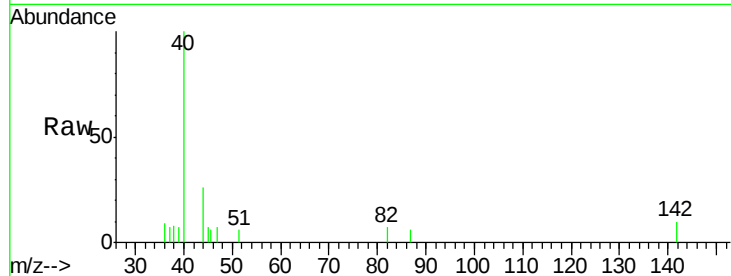




#10
Methvl Iodide
Concen: 4.649 ug/l
RT: 2.52 min Scan# 224
Delta R.T. 0.01 min
Lab File: VX009280.D
Acq: 02 May 2019 18:01

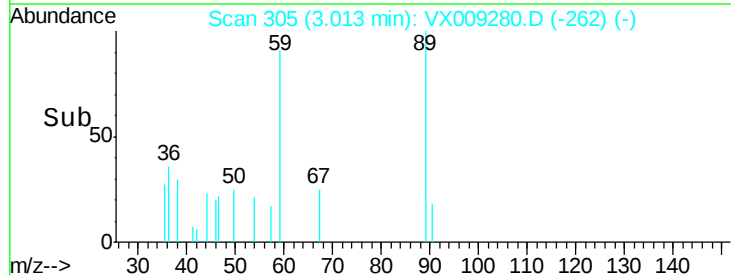
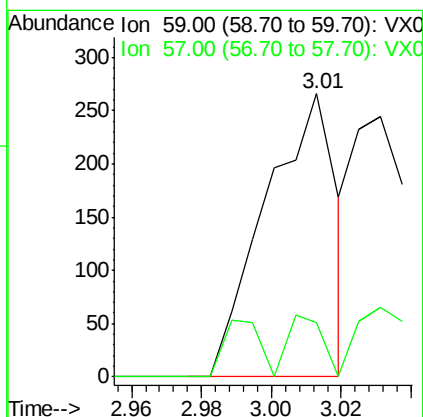
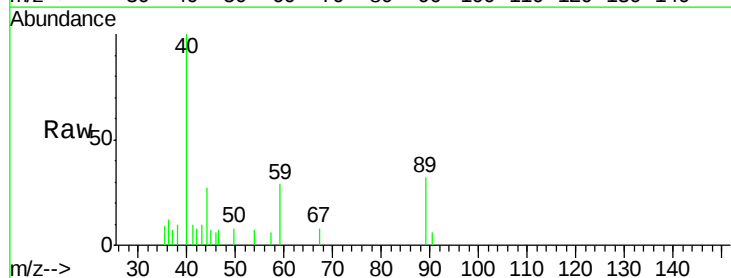
Instrument :
MSVOA_X
ClientSampleId :
SS050MW600-190429

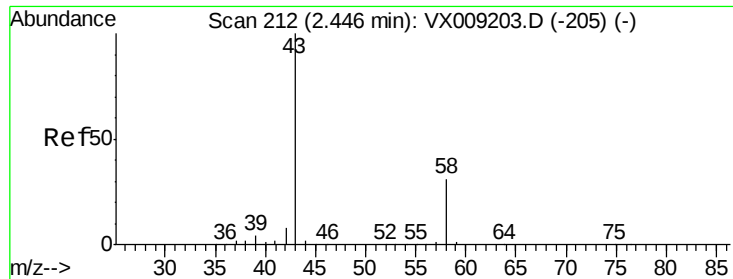
Tot Ion:142 Resp: 125
Ion Ratio Lower Upper
142 100
127 0.0 32.7 49.1#
141 0.0 11.5 17.3#



#11
Tert butyl alcohol
Concen: 0.631 ug/l
RT: 3.01 min Scan# 305
Delta R.T. -0.04 min
Lab File: VX009280.D
Acq: 02 May 2019 18:01

Tgt Ion: 59 Resp: 375
Ion Ratio Lower Upper
59 100
57 10.7 8.2 12.2





#16

Acetone

Concen: 1.500 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.01 min

Lab File: VX009280.D

Acq: 02 May 2019 18:01

Instrument :

MSVOA_X

ClientSampleId :

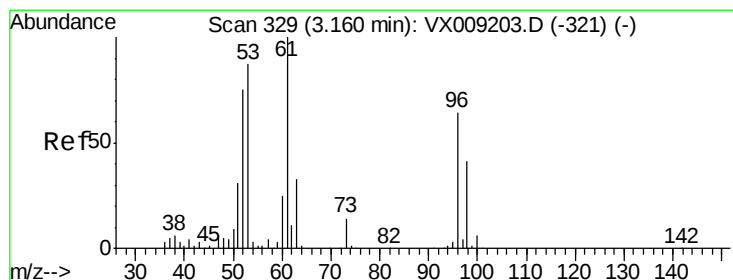
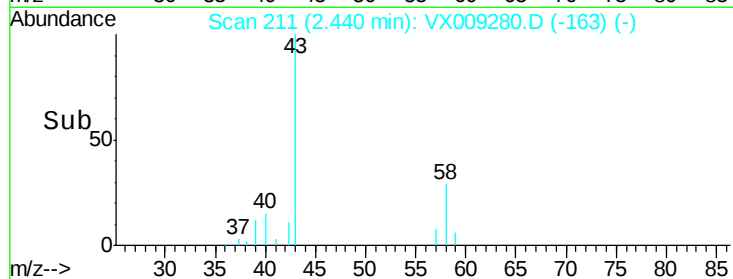
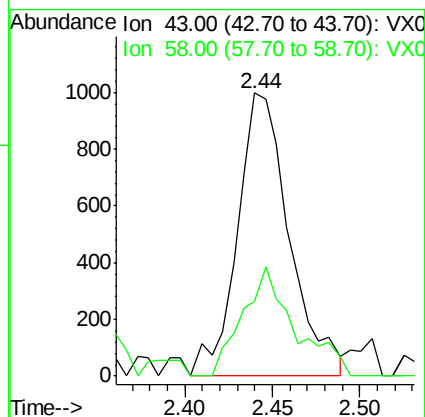
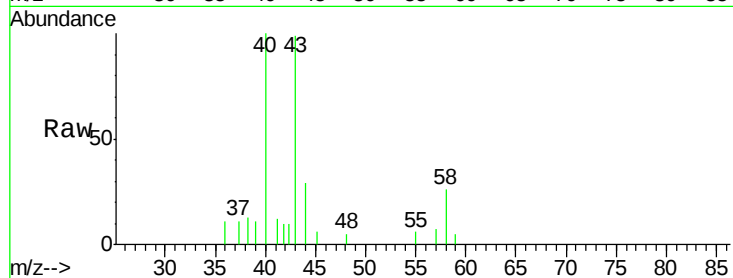
SS050MW600-190429

Tot Ion: 43 Resp: 2067

Ion Ratio Lower Upper

43 100

58 26.6 24.9 37.3



#21

trans-1,2-Dichloroethene

Concen: 0.949 ug/l

RT: 3.17 min Scan# 330

Delta R.T. 0.01 min

Lab File: VX009280.D

Acq: 02 May 2019 18:01

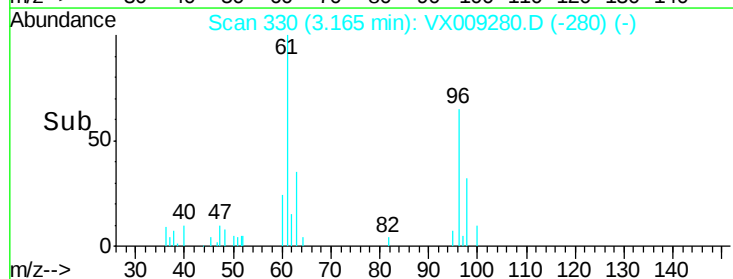
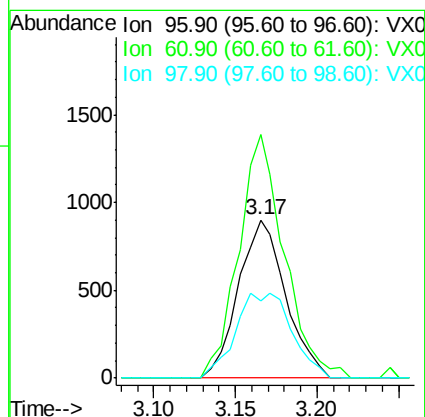
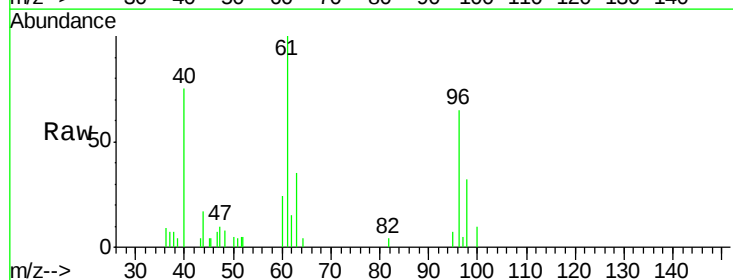
Tgt Ion: 96 Resp: 1816

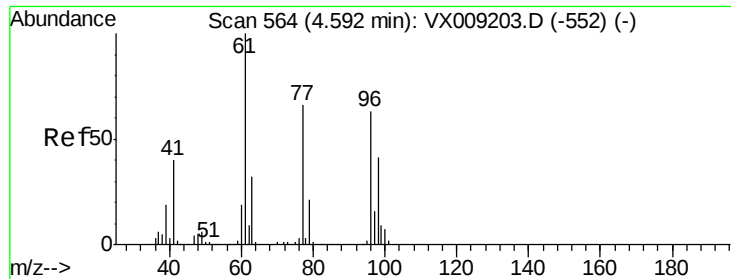
Ion Ratio Lower Upper

96 100

61 153.9 124.5 186.7

98 49.1 50.4 75.6#



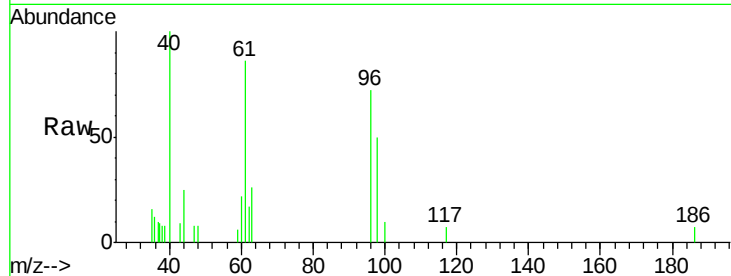


#27

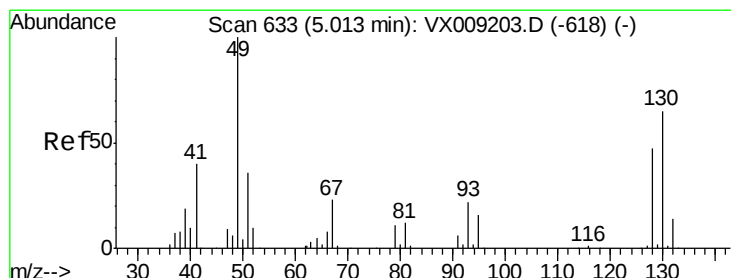
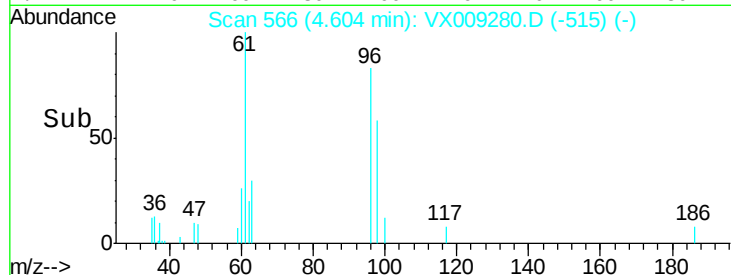
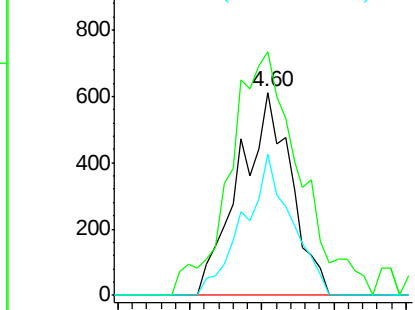
cis-1,2-Dichloroethene
Concen: 0.674 ug/l
RT: 4.60 min Scan# 566
Delta R.T. 0.01 min
Lab File: VX009280.D
Acq: 02 May 2019 18:01

Instrument :
MSVOA_X
ClientSampleId :
SS050MW600-190429

Tot Ion: 96 Resp: 1539
Ion Ratio Lower Upper
96 100
61 160.2 0.0 324.0
98 63.7 0.0 130.4



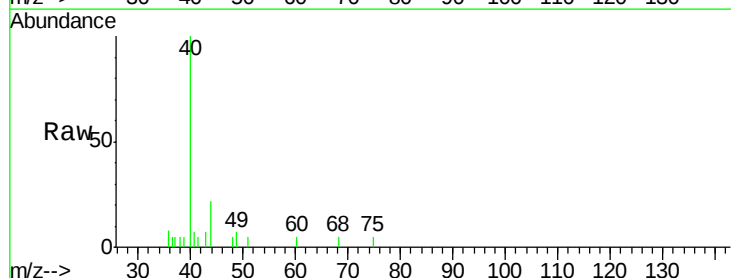
Abundance Ion 95.90 (95.60 to 96.60): VX0
Ion 60.90 (60.60 to 61.60): VX0
Ion 97.90 (97.60 to 98.60): VX0



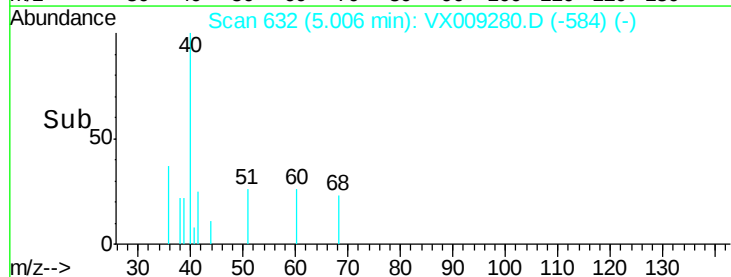
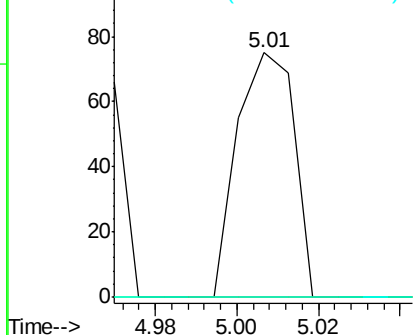
#28

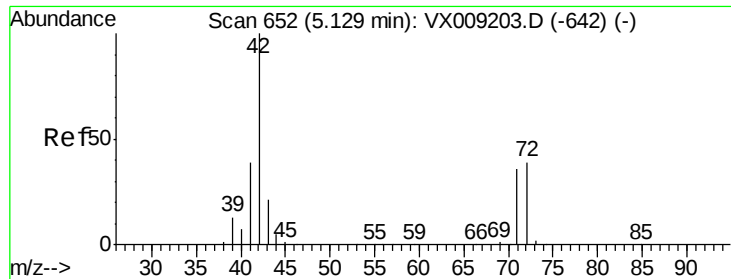
Bromochloromethane
Concen: Below Cal
RT: 5.01 min Scan# 632
Delta R.T. -0.01 min
Lab File: VX009280.D
Acq: 02 May 2019 18:01

Tgt Ion: 49 Resp: 73
Ion Ratio Lower Upper
49 100
129 0.0 0.0 3.8
130 0.0 51.2 76.8#



Abundance Ion 48.90 (48.60 to 49.60): VX0
Ion 128.80 (128.50 to 129.50): V
Ion 129.80 (129.50 to 130.50): V





#29

Tetrahydrofuran

Concen: 0.499 ug/l

RT: 5.14 min Scan# 654

Delta R.T. 0.01 min

Lab File: VX009280.D

Acq: 02 May 2019 18:01

Instrument :

MSVOA_X

ClientSampleId :

SS050MW600-190429

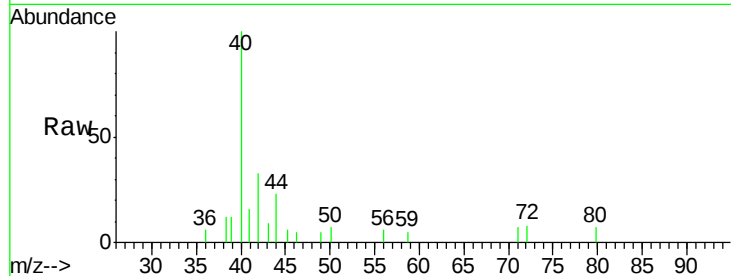
Tot Ion: 42 Resp: 688

Ion Ratio Lower Upper

42 100

72 62.8 30.4 45.6#

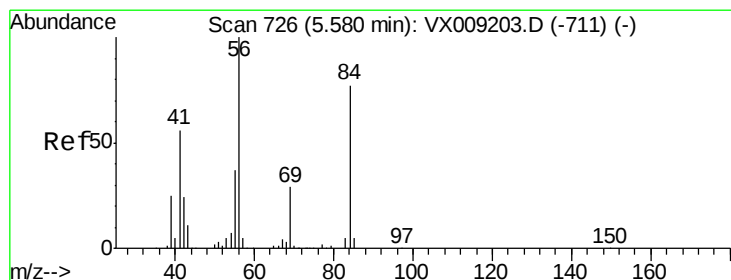
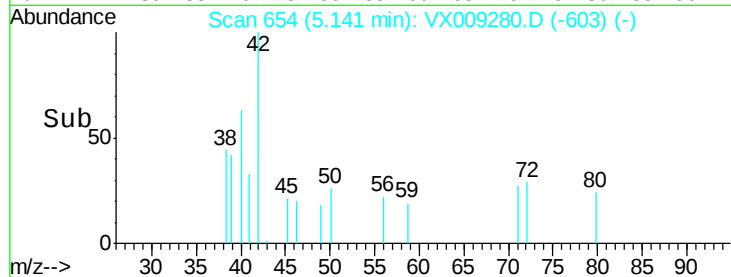
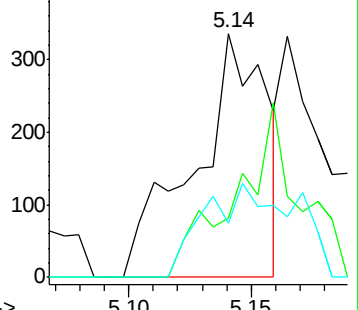
71 48.5 28.6 43.0#



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



#31

Cyclohexane

Concen: 1.064 ug/l

RT: 5.66 min Scan# 740

Delta R.T. 0.09 min

Lab File: VX009280.D

Acq: 02 May 2019 18:01

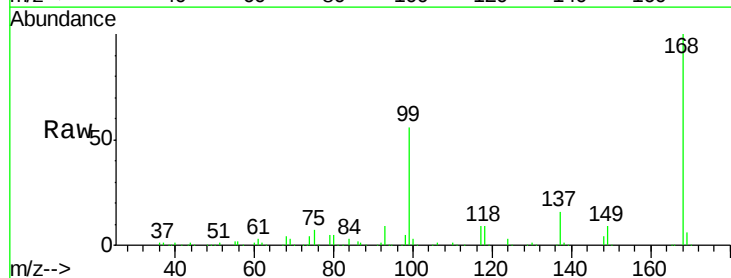
Tgt Ion: 56 Resp: 4037

Ion Ratio Lower Upper

56 100

69 150.7 23.4 35.0#

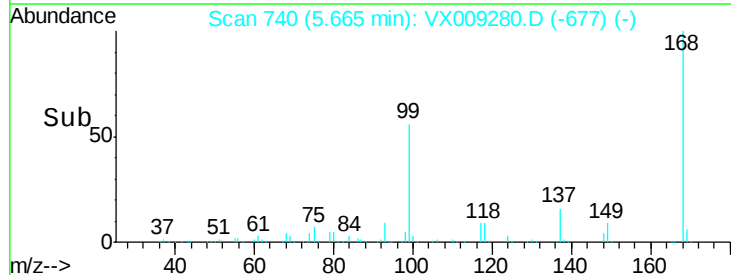
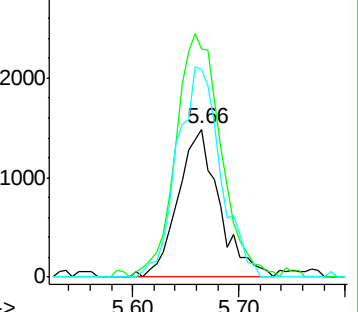
84 140.5 61.9 92.9#

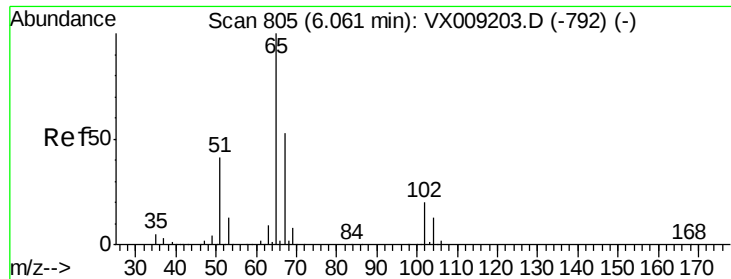


Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0





#33

1,2-Dichloroethane-d4

Concen: 49.183 ug/l

RT: 6.06 min Scan# 805

Delta R.T. -0.00 min

Lab File: VX009280.D

Acq: 02 May 2019 18:01

Instrument :

MSVOA_X

ClientSampleId :

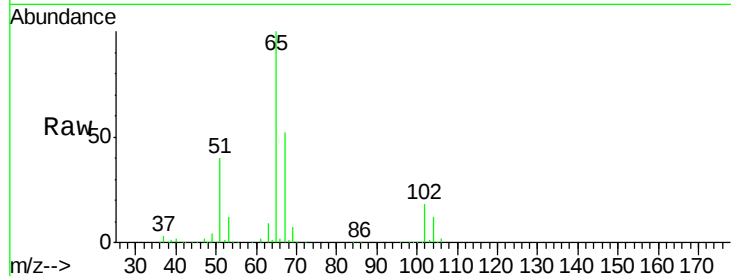
SS050MW600-190429

Tot Ion: 65 Resp: 126257

Ion Ratio Lower Upper

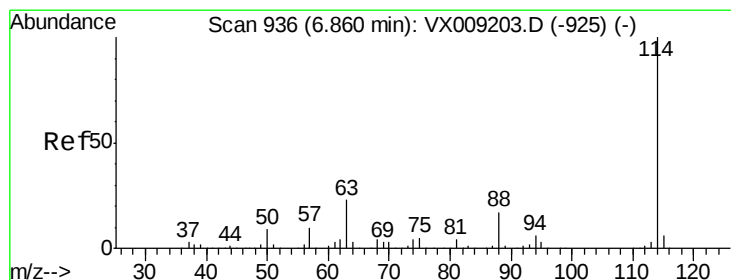
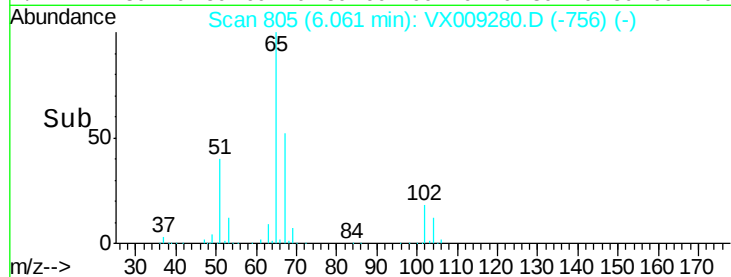
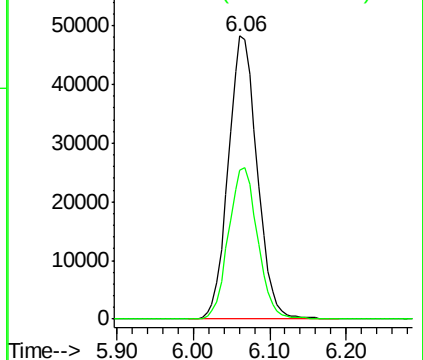
65 100

67 54.0 0.0 106.6



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: 6.86 min Scan# 936

Delta R.T. -0.00 min

Lab File: VX009280.D

Acq: 02 May 2019 18:01

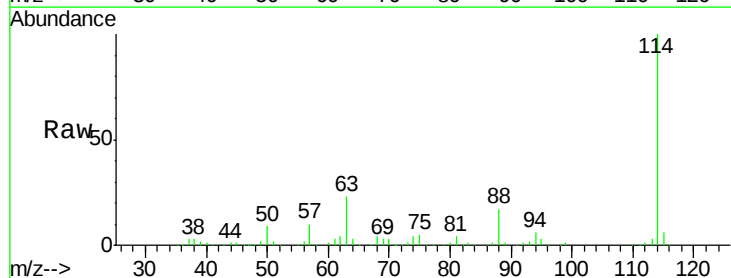
Tgt Ion: 114 Resp: 306627

Ion Ratio Lower Upper

114 100

63 22.6 0.0 45.6

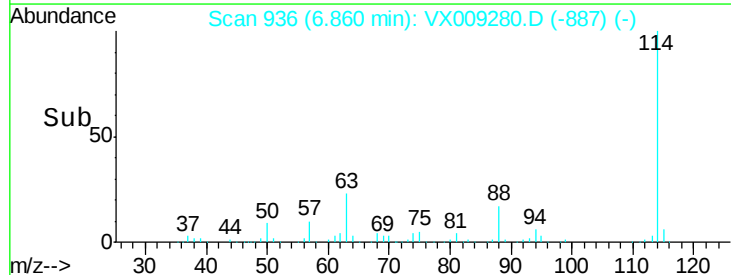
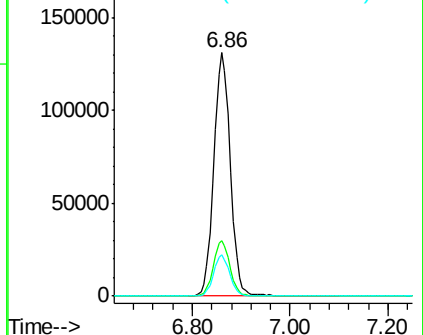
88 16.9 0.0 33.2

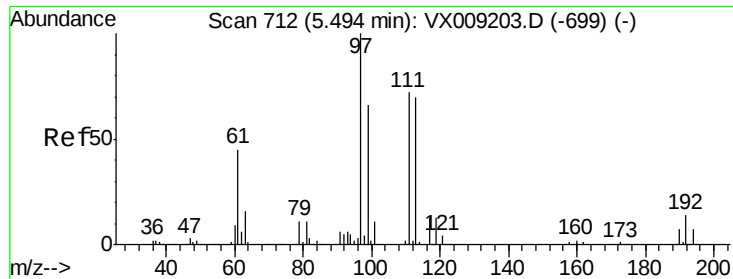


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0





#35

Dibromofluoromethane

Concen: 48.333 ug/l

RT: 5.50 min Scan# 713

Delta R.T. 0.01 min

Lab File: VX009280.D

Acq: 02 May 2019 18:01

Instrument :

MSVOA_X

ClientSampleId :

SS050MW600-190429

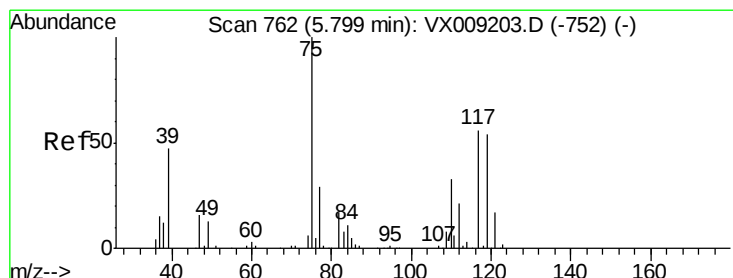
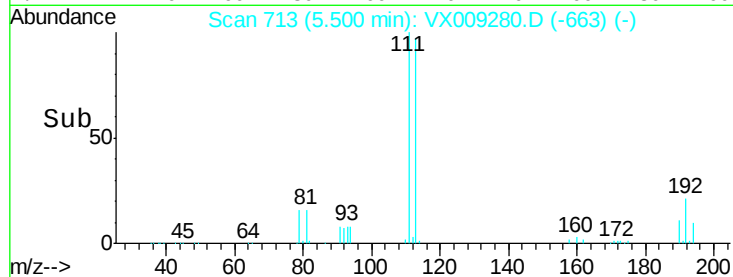
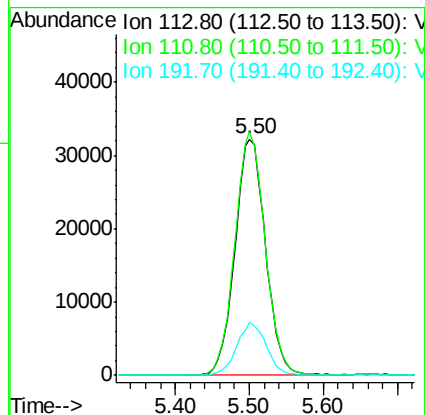
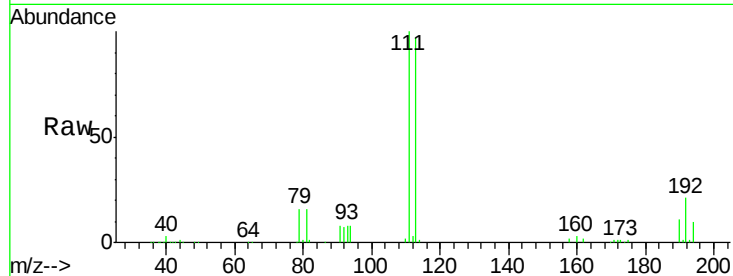
Tot Ion:113 Resp: 93166

Ion Ratio Lower Upper

113 100

111 101.7 82.8 124.2

192 21.4 17.0 25.6



#36

1,1-Dichloropropene

Concen: 5.135 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX009280.D

Acq: 02 May 2019 18:01

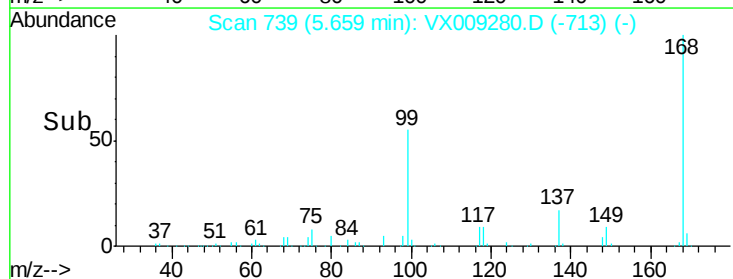
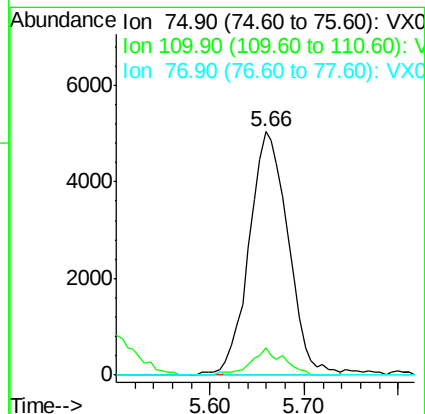
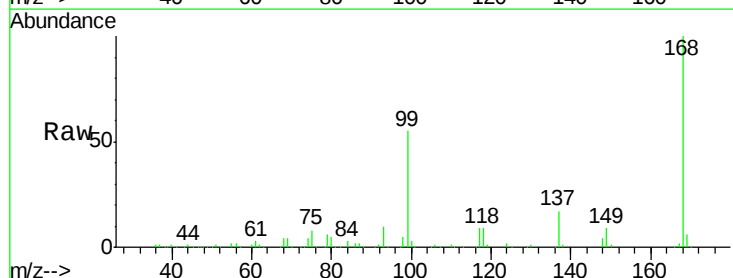
Tgt Ion: 75 Resp: 14631

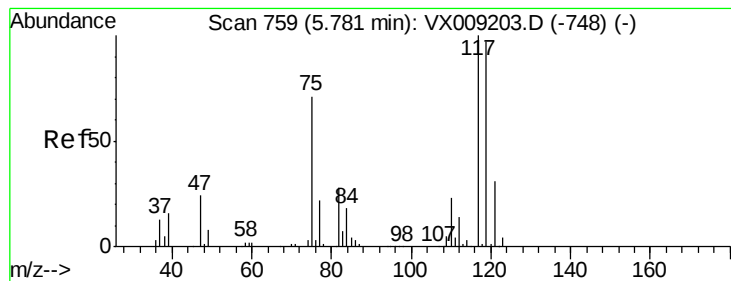
Ion Ratio Lower Upper

75 100

110 9.3 16.9 50.6#

77 0.0 24.8 37.2#





#38

Carbon Tetrachloride

Concen: 6.738 ug/l

RT: 5.66 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX009280.D

Acq: 02 May 2019 18:01

Instrument :

MSVOA_X

ClientSampleId :

SS050MW600-190429

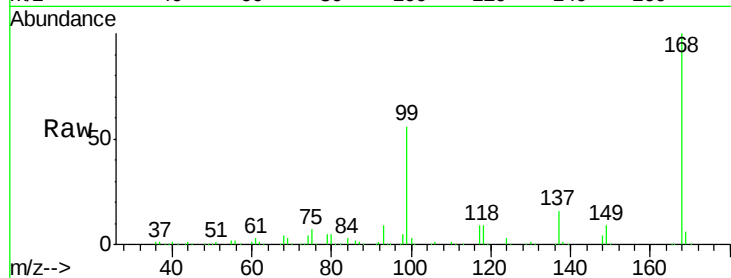
Tot Ion:117 Resp: 17445

Ion Ratio Lower Upper

117 100

119 4.7 77.5 116.3#

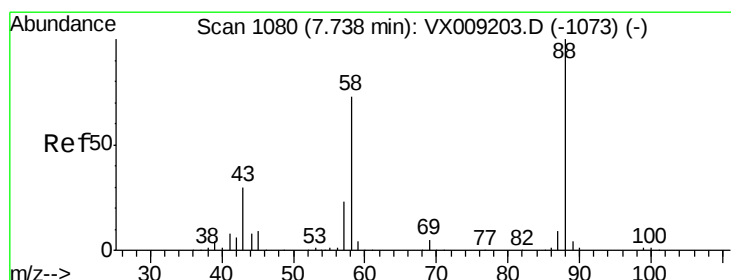
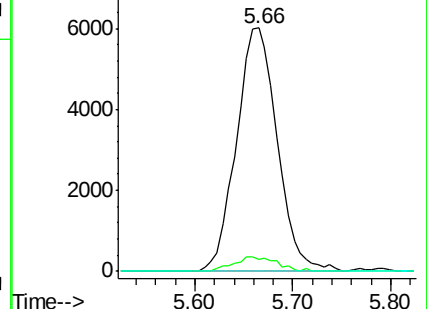
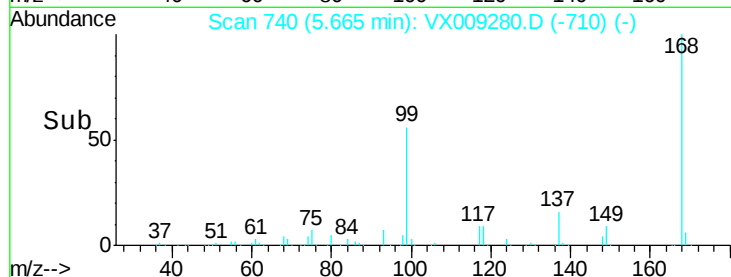
121 0.0 24.7 37.1#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#49

1,4-Dioxane

Concen: 0.313 ug/l

RT: 7.90 min Scan# 1107

Delta R.T. 0.16 min

Lab File: VX009280.D

Acq: 02 May 2019 18:01

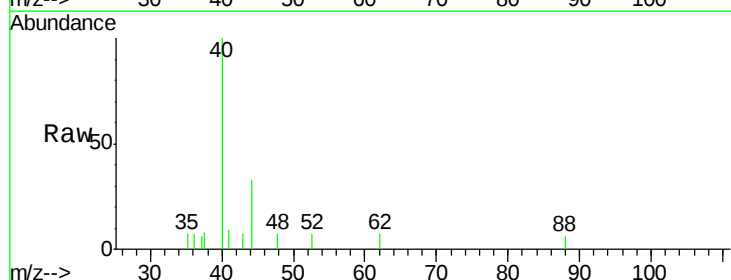
Tgt Ion: 88 Resp: 20

Ion Ratio Lower Upper

88 100

43 300.0 28.6 42.8#

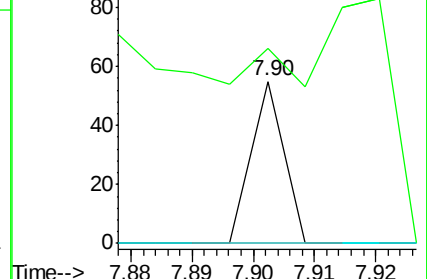
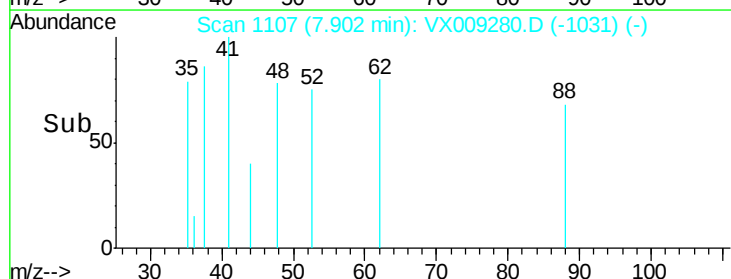
58 0.0 61.7 92.5#

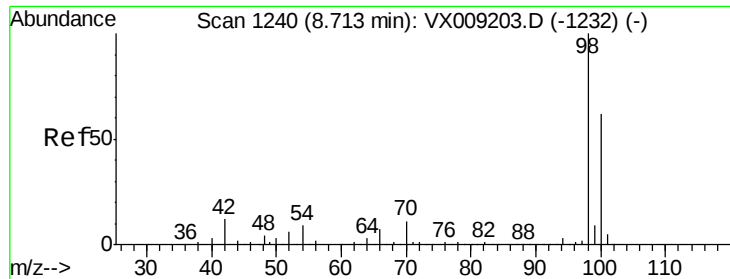


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 48.787 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX009280.D

Acq: 02 May 2019 18:01

Instrument :

MSVOA_X

ClientSampleId :

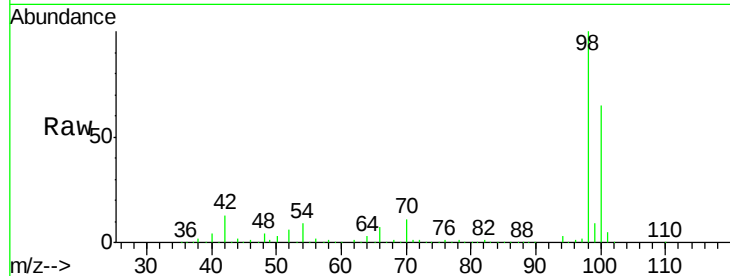
SS050MW600-190429

Tot Ion: 98 Resp: 379669

Ion Ratio Lower Upper

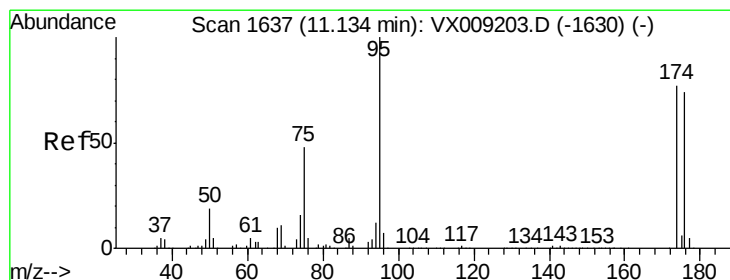
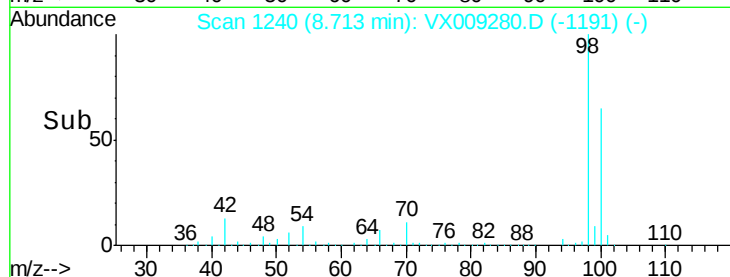
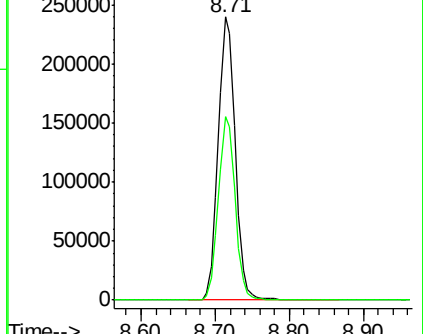
98 100

100 63.8 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX



#62

4-Bromofluorobenzene

Concen: 44.726 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX009280.D

Acq: 02 May 2019 18:01

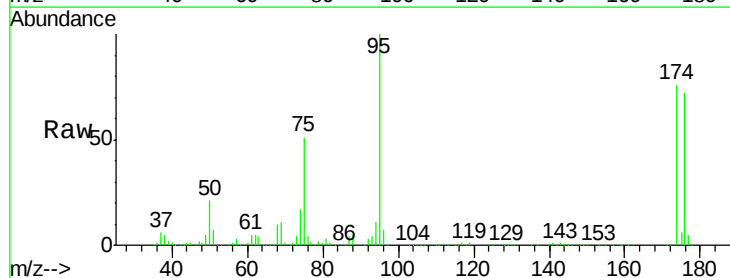
Tgt Ion: 95 Resp: 126472

Ion Ratio Lower Upper

95 100

174 81.2 0.0 161.6

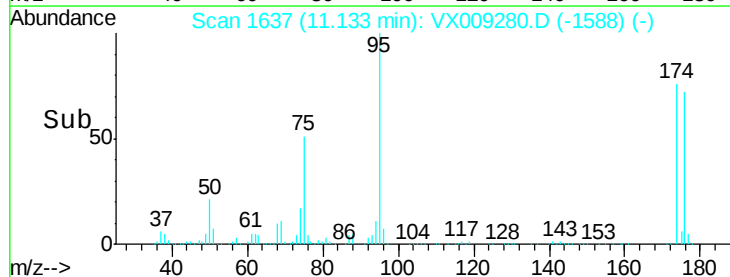
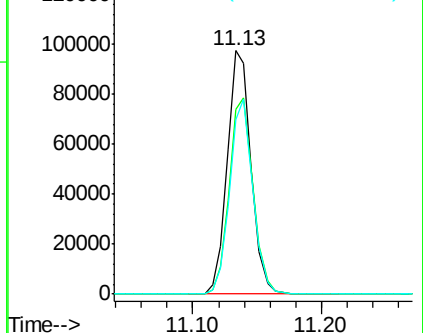
176 78.2 0.0 159.2

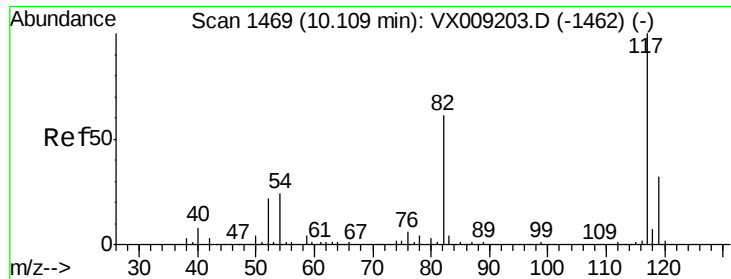


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

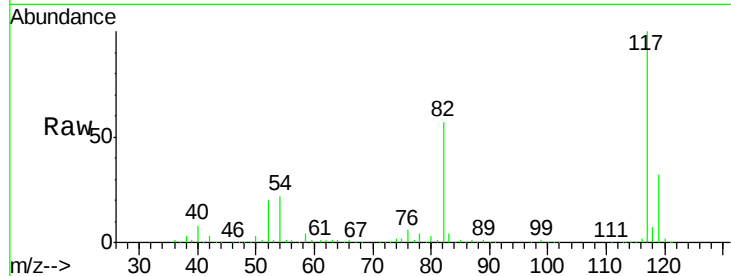




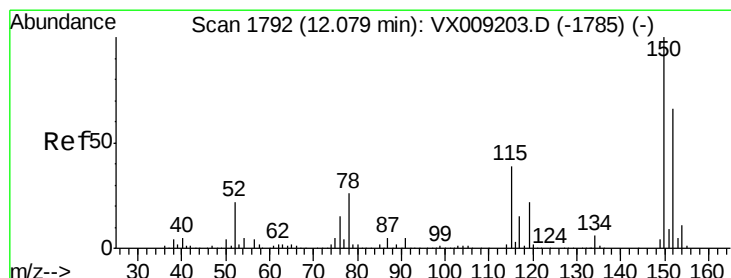
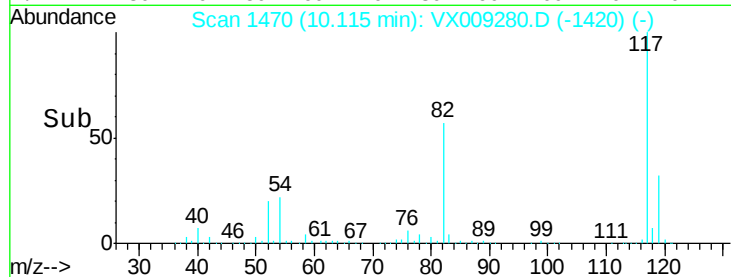
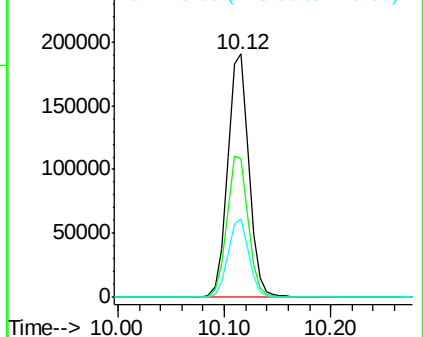
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. 0.01 min
Lab File: VX009280.D
Acq: 02 May 2019 18:01

Instrument :
MSVOA_X
ClientSampleId :
SS050MW600-190429

Tot Ion:117 Resp: 266114
Ion Ratio Lower Upper
117 100
82 57.0 48.8 73.2
119 32.0 25.8 38.6

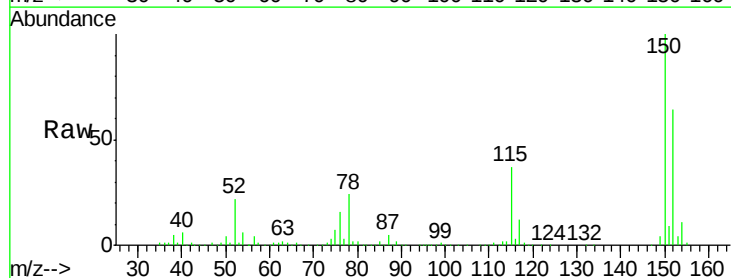


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

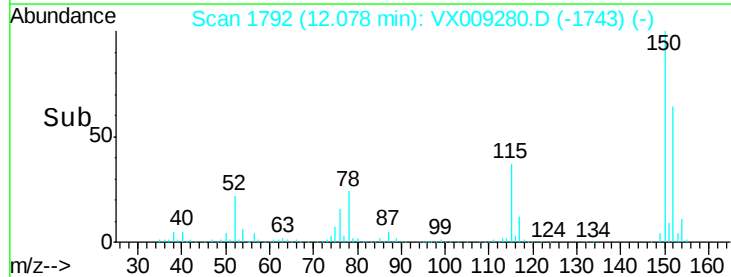
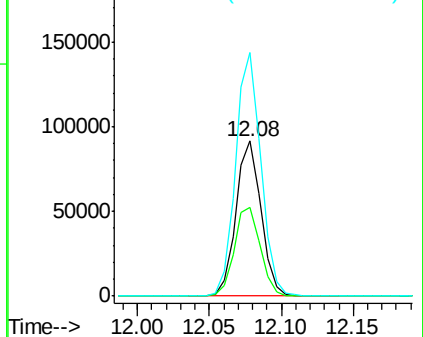


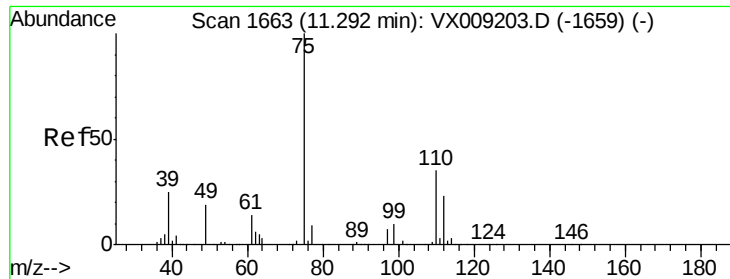
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. -0.00 min
Lab File: VX009280.D
Acq: 02 May 2019 18:01

Tgt Ion:152 Resp: 111859
Ion Ratio Lower Upper
152 100
115 59.5 41.2 123.6
150 157.8 0.0 346.4



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

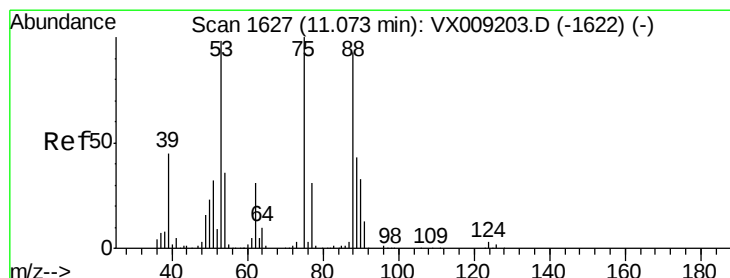
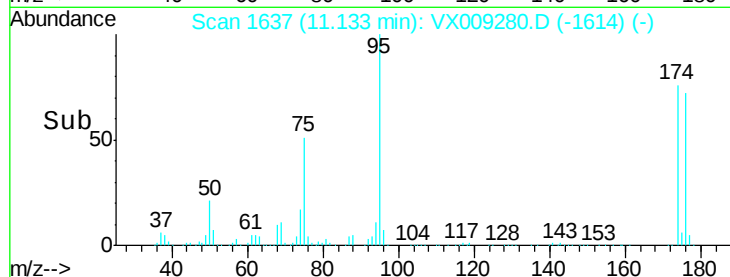
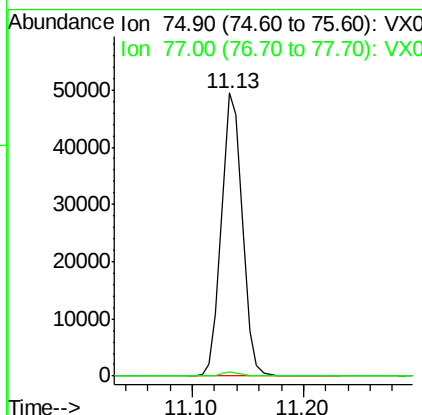
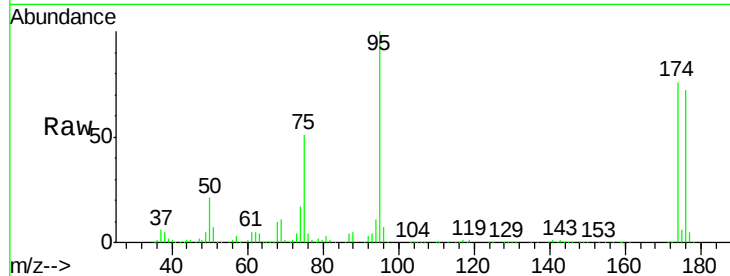




#76
 1,2,3-Trichloropropane
 Concen: 24.823 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. -0.16 min
 Lab File: VX009280.D
 Acq: 02 May 2019 18:01

Instrument :
 MSVOA_X
 ClientSampleId :
 SS050MW600-190429

Tot Ion: 75 Resp: 64408
 Ion Ratio Lower Upper
 75 100
 77 1.4 22.1 66.1#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 63.512 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. 0.06 min
 Lab File: VX009280.D
 Acq: 02 May 2019 18:01

Tgt Ion: 75 Resp: 64408
 Ion Ratio Lower Upper
 75 100
 53 0.1 79.0 118.6#
 89 0.0 34.7 52.1#

