

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX121718\
 Data File : VX006579.D
 Acq On : 17 Dec 2018 18:06
 Operator : JC/MD
 Sample : J6408-04
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 SA.MW130I-20181208

Quant Time: Dec 18 00:41:25 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X112918W.M
 Quant Title : SW846 8260
 QLast Update : Fri Nov 30 03:55:33 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	651097	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	1050539	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	961288	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	460590	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.07	65	362995	54.61	ug/l	0.00
Spiked Amount	50.000		Recovery	=	109.22%	
35) Dibromofluoromethane	5.51	113	316435	46.52	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.04%	
50) Toluene-d8	8.71	98	1246918	50.40	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.80%	
62) 4-Bromofluorobenzene	11.13	95	459986	49.34	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.68%	

Target Compounds

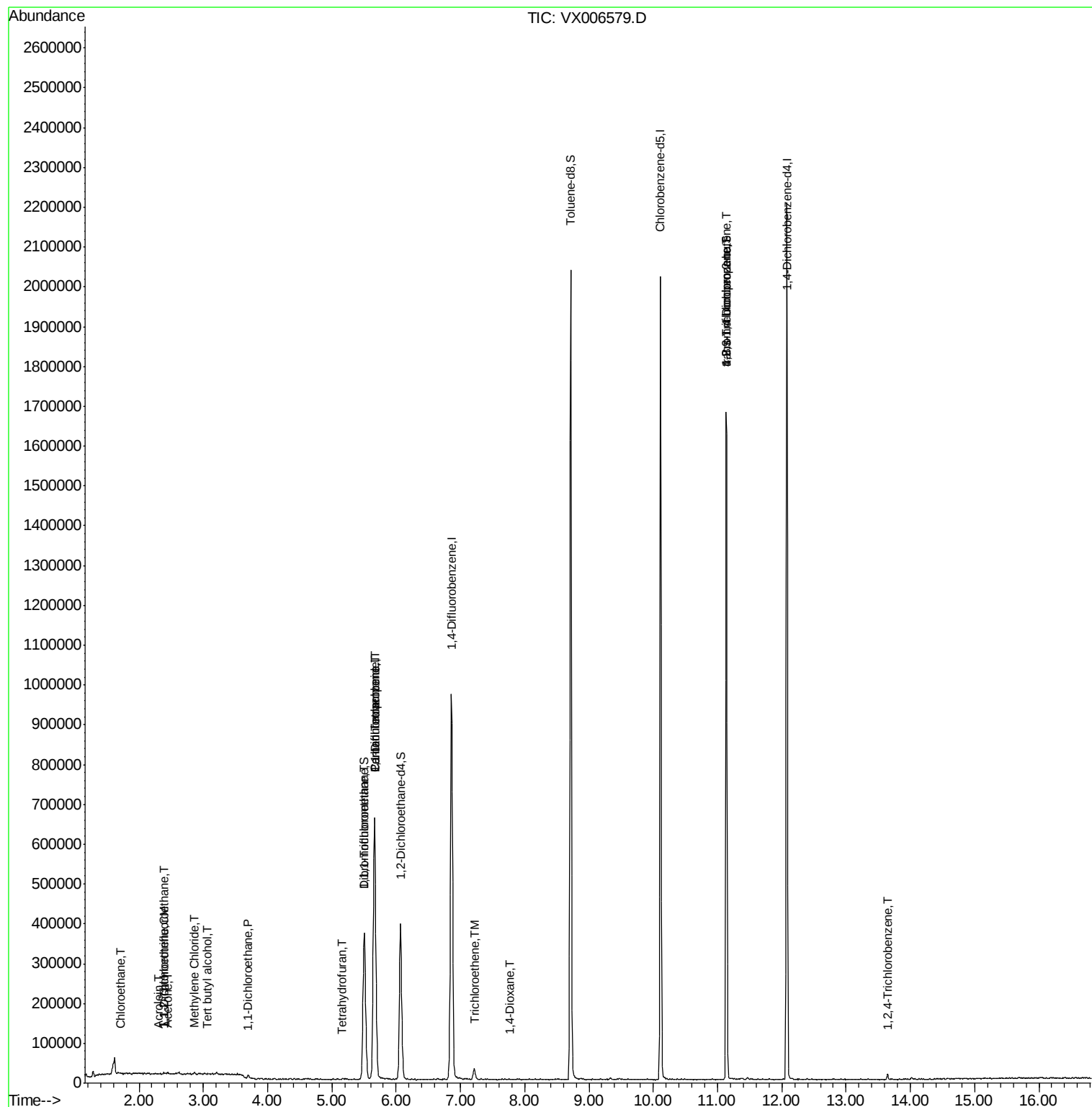
						Qvalue
6) Chloroethane	1.71	64	873	0.202	ug/l #	76
9) 1,1,2-Trichlorotrifluoroet	2.40	101	1250	0.203	ug/l #	29
11) Tert butyl alcohol	3.06	59	730	0.402	ug/l #	1
12) 1,1-Dichloroethene	2.38	96	1472	0.250	ug/l #	56
13) Acrolein	2.31	56	260	0.262	ug/l #	1
16) Acetone	2.44	43	1161	0.372	ug/l	96
20) Methylene Chloride	2.87	84	2138	0.322	ug/l #	39
24) 1,1-Dichloroethane	3.70	63	9854	0.948	ug/l #	96
29) Tetrahydrofuran	5.15	42	805	0.260	ug/l #	80
32) 1,1,1-Trichloroethane	5.50	97	3434	0.331	ug/l #	46
36) 1,1-Dichloropropene	5.67	75	44573	5.038	ug/l #	48
38) Carbon Tetrachloride	5.67	117	62392	5.995	ug/l #	16
44) Trichloroethene	7.22	130	10945	1.364	ug/l	99
49) 1,4-Dioxane	7.77	88	126	0.636	ug/l #	1
76) 1,2,3-Trichloropropane	11.13	75	216882	24.396	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.13	75	216882	57.250	ug/l #	15
93) 1,2,4-Trichlorobenzene	13.65	180	3405	0.299	ug/l	99

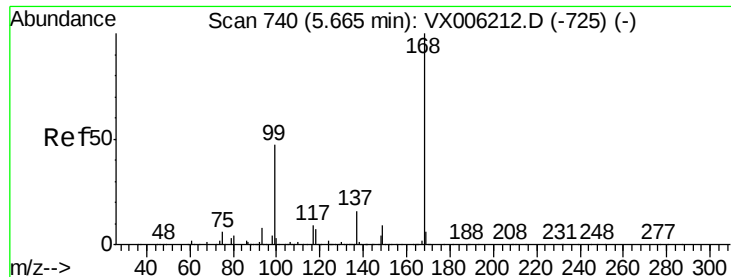
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.00 min

Lab File: VX006579.D

Acq: 17 Dec 2018 18:06

Instrument :

MSVOA_X

ClientSampleId :

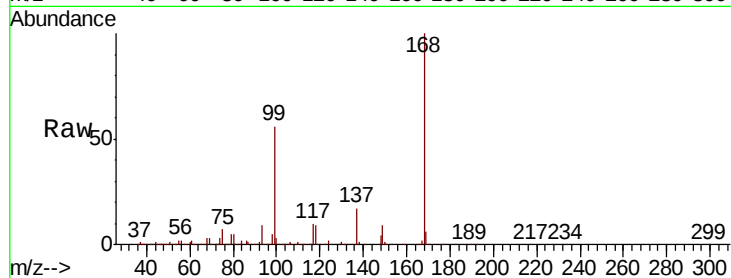
SA.MW130I-20181208

Tot Ion:168 Resp: 651097

Ion Ratio Lower Upper

168 100

99 56.0 37.8 56.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

250000

200000

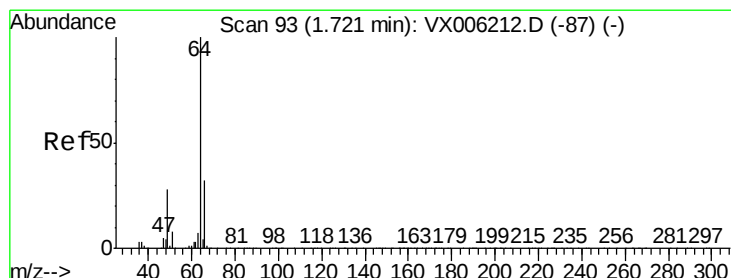
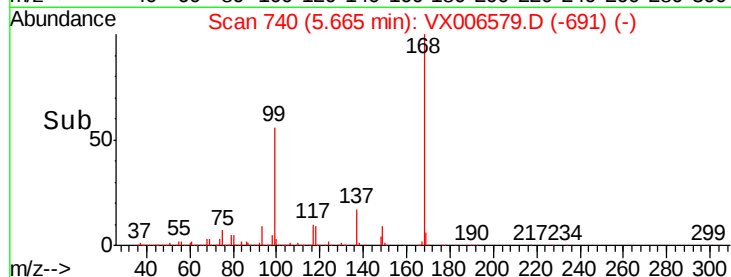
150000

100000

50000

0

Time--> 5.50 5.60 5.70 5.80



#6

Chloroethane

Concen: 0.202 ug/l

RT: 1.71 min Scan# 92

Delta R.T. -0.01 min

Lab File: VX006579.D

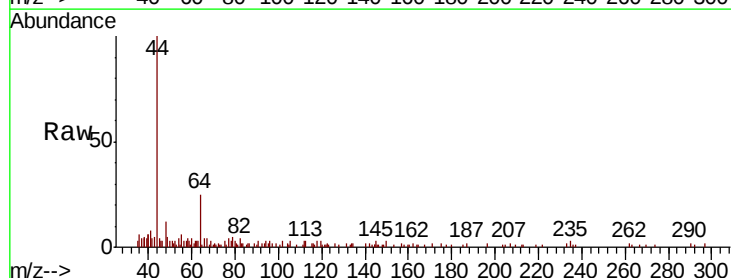
Acq: 17 Dec 2018 18:06

Tgt Ion: 64 Resp: 873

Ion Ratio Lower Upper

64 100

66 18.7 25.9 38.9#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

1.71

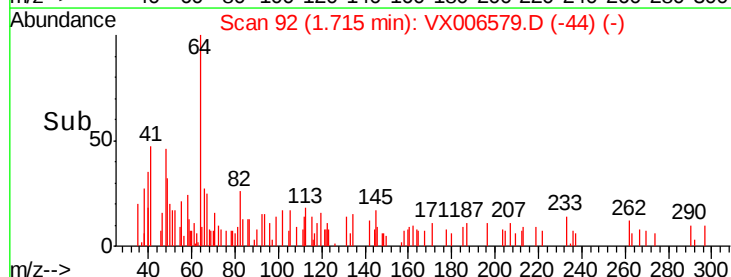
1500

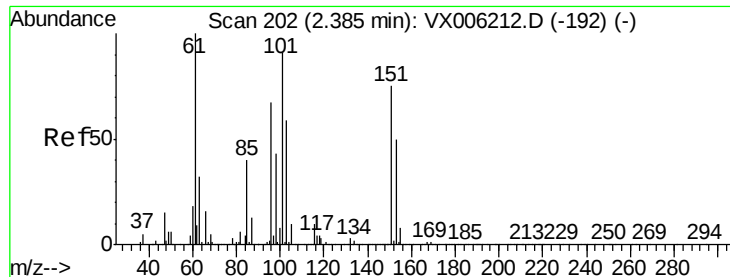
1000

500

0

Time--> 1.68 1.70 1.72





#9

1,1,2-Trichlorotrifluoroethane

Concen: 0.203 ug/l

RT: 2.40 min Scan# 204

Delta R.T. 0.01 min

Lab File: VX006579.D

Acq: 17 Dec 2018 18:06

Instrument :

MSVOA_X

ClientSampleId :

SA.MW130I-20181208

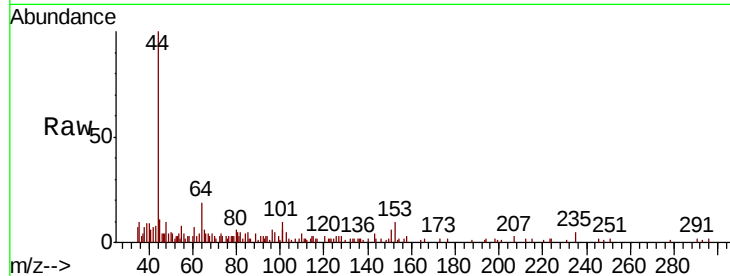
Tot Ion:101 Resp: 1250

Ion Ratio Lower Upper

101 100

85 62.1 35.5 53.3#

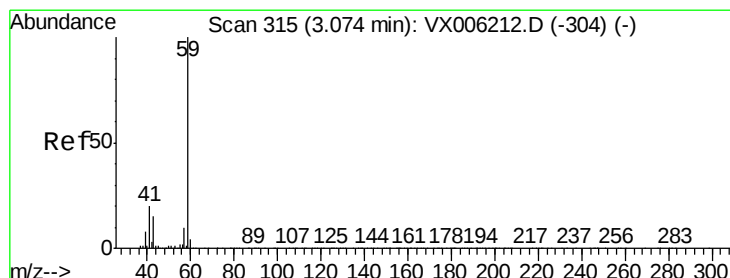
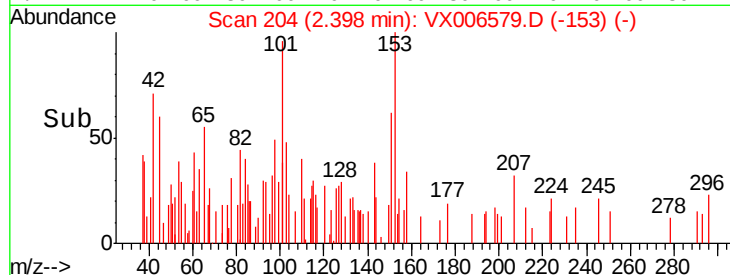
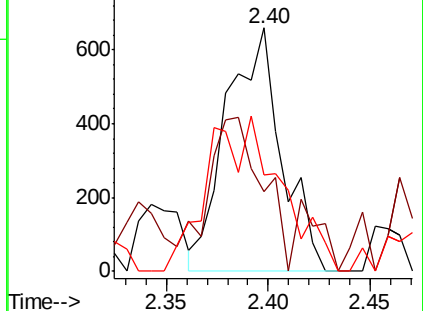
151 0.0 68.6 103.0#



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VX0

Ion 150.80 (150.50 to 151.50): V



#11

Tert butyl alcohol

Concen: 0.402 ug/l

RT: 3.06 min Scan# 312

Delta R.T. -0.02 min

Lab File: VX006579.D

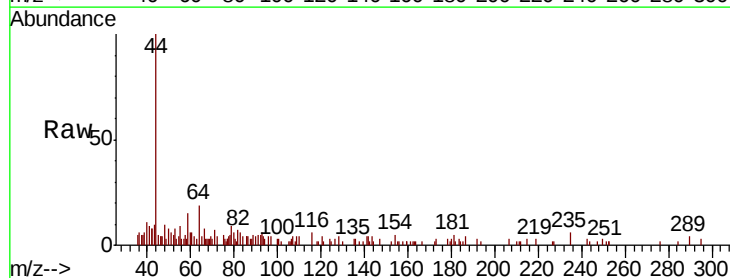
Acq: 17 Dec 2018 18:06

Tgt Ion: 59 Resp: 730

Ion Ratio Lower Upper

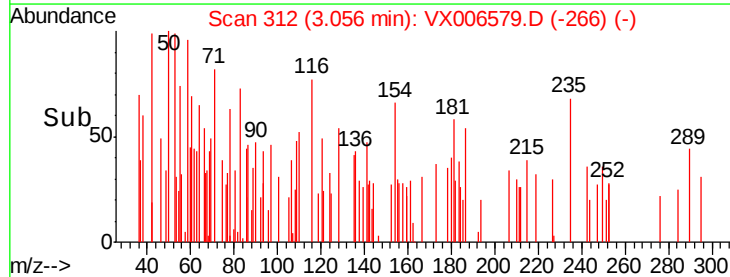
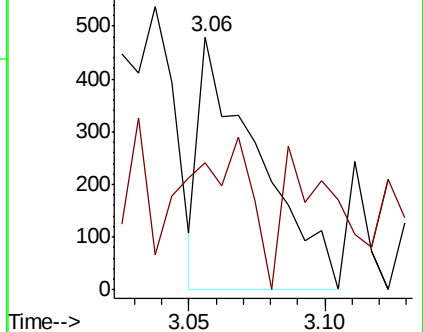
59 100

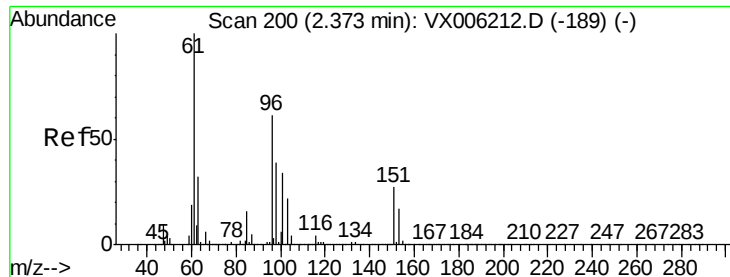
57 55.6 8.2 12.2#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#12

1,1-Dichloroethene

Concen: 0.250 ug/l

RT: 2.38 min Scan# 201

Delta R.T. 0.01 min

Lab File: VX006579.D

Acq: 17 Dec 2018 18:06

Instrument :

MSVOA_X

ClientSampleId :

SA.MW130I-20181208

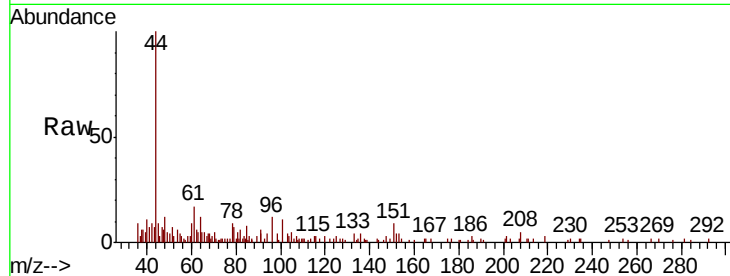
Tot Ion: 96 Resp: 1472

Ion Ratio Lower Upper

96 100

61 125.7 131.7 197.5#

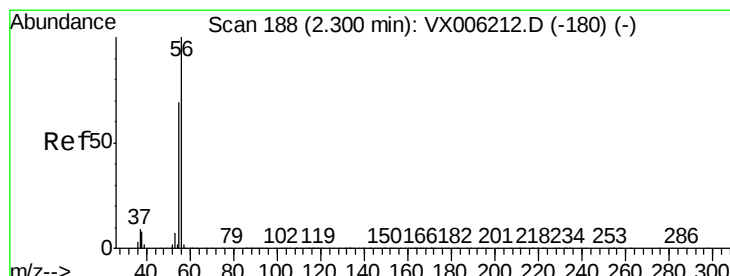
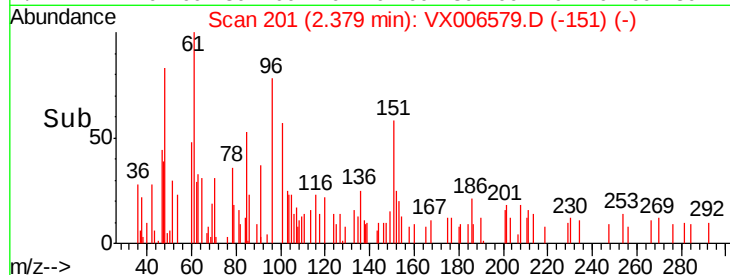
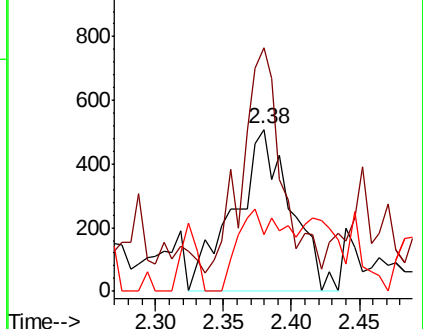
98 0.0 51.8 77.6#



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



#13

Acrolein

Concen: 0.262 ug/l

RT: 2.31 min Scan# 190

Delta R.T. 0.01 min

Lab File: VX006579.D

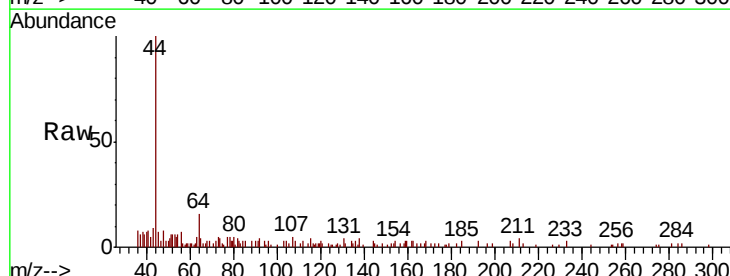
Acq: 17 Dec 2018 18:06

Tgt Ion: 56 Resp: 260

Ion Ratio Lower Upper

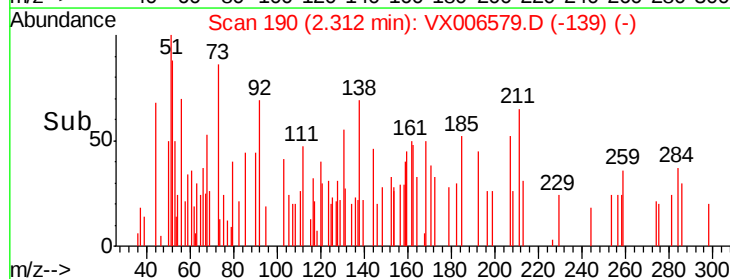
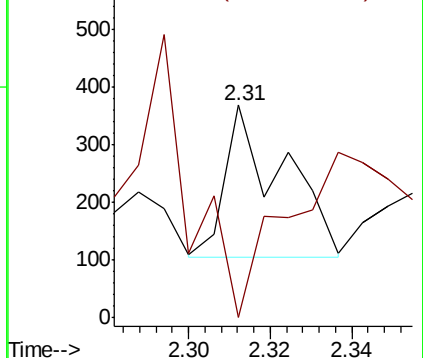
56 100

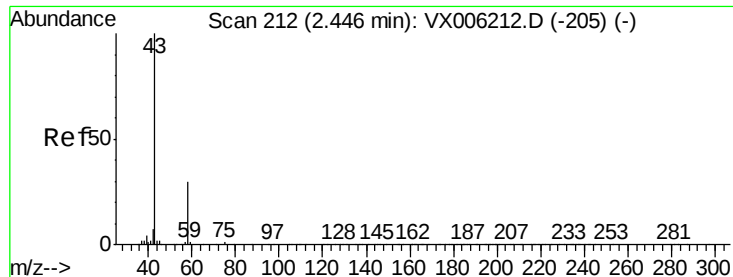
55 205.8 57.8 86.6#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

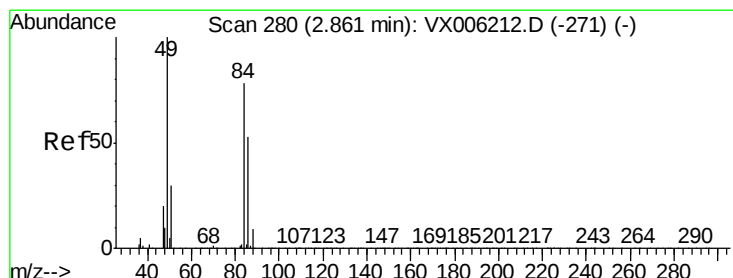
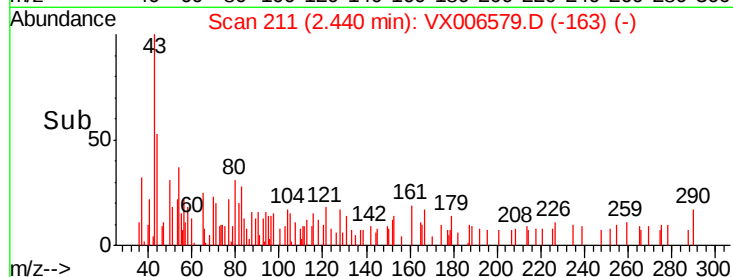
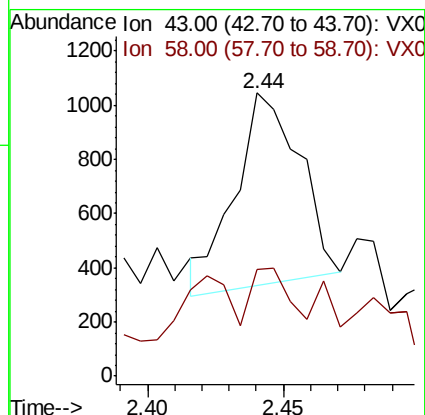
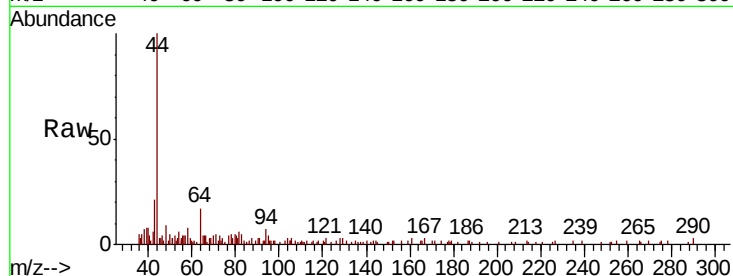




#16
Acetone
Concen: 0.372 ug/l
RT: 2.44 min Scan# 211
Delta R.T. -0.01 min
Lab File: VX006579.D
Acq: 17 Dec 2018 18:06

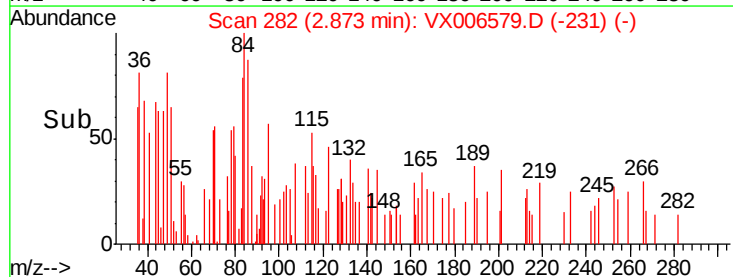
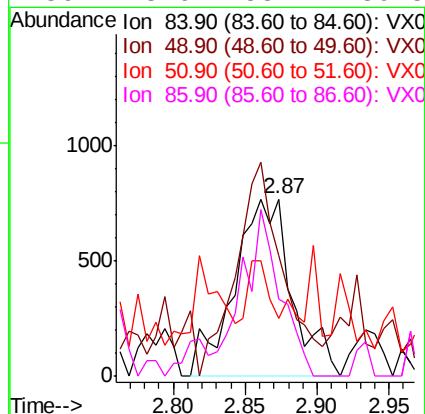
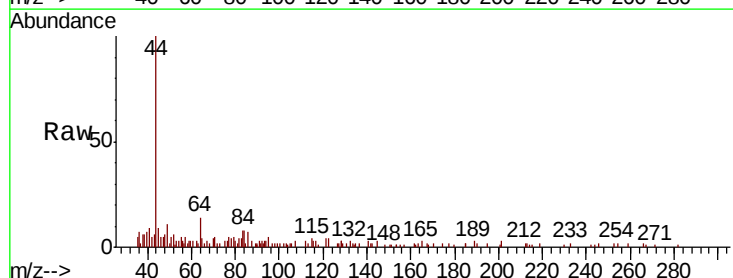
Instrument :
MSVOA_X
ClientSampleId :
SA.MW130I-20181208

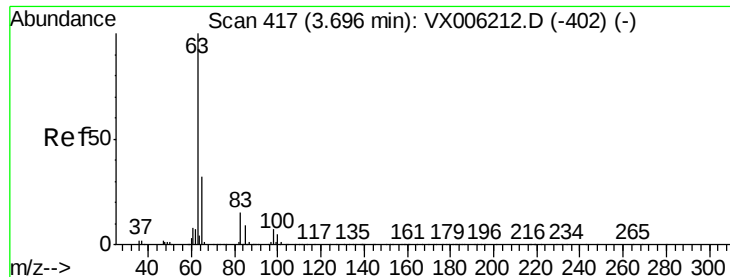
Tot Ion: 43 Resp: 1161
Ion Ratio Lower Upper
43 100
58 32.2 24.0 36.0



#20
Methylene Chloride
Concen: 0.322 ug/l
RT: 2.87 min Scan# 282
Delta R.T. 0.01 min
Lab File: VX006579.D
Acq: 17 Dec 2018 18:06

Tgt Ion: 84 Resp: 2138
Ion Ratio Lower Upper
84 100
49 34.9 102.2 153.4#
51 7.4 31.1 46.7#
86 43.6 53.7 80.5#





#24

1,1-Dichloroethane

Concen: 0.948 ug/l

RT: 3.70 min Scan# 417

Delta R.T. 0.00 min

Lab File: VX006579.D

Acq: 17 Dec 2018 18:06

Instrument :

MSVOA_X

ClientSampleId :

SA.MW130I-20181208

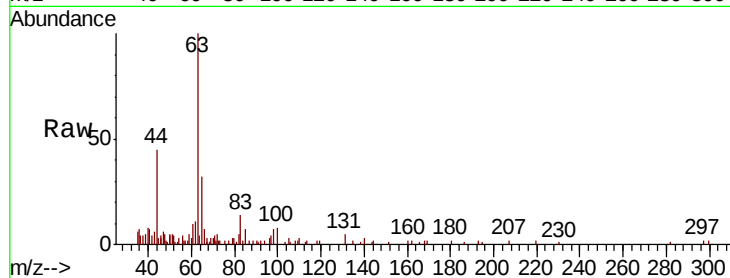
Tot Ion: 63 Resp: 9854

Ion Ratio Lower Upper

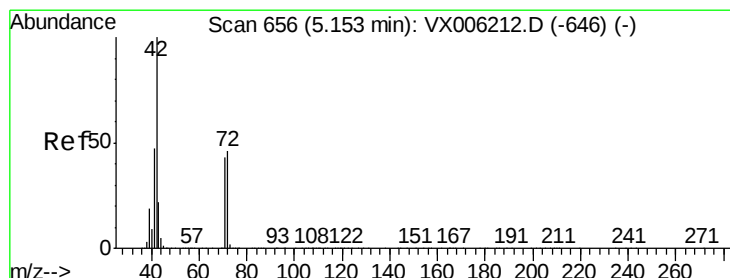
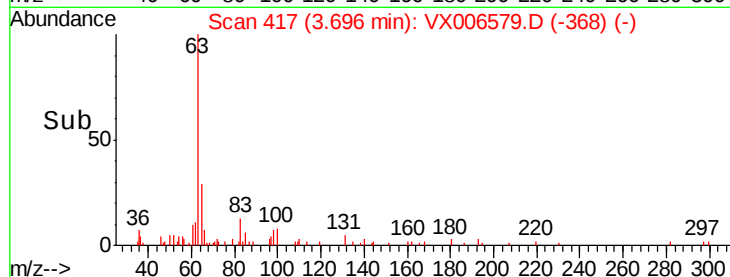
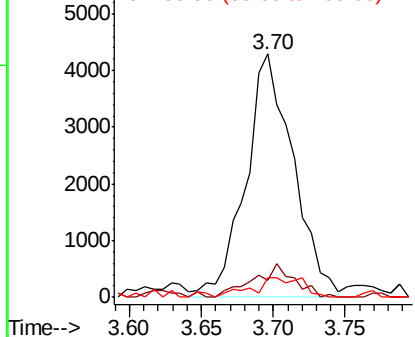
63 100

98 7.4 3.8 11.4

100 8.3 2.5 7.4#



Abundance Ion 62.90 (62.60 to 63.60): VX0
Ion 97.90 (97.60 to 98.60): VX0
Ion 99.90 (99.60 to 100.60): VX0



#29

Tetrahydrofuran

Concen: 0.260 ug/l

RT: 5.15 min Scan# 656

Delta R.T. 0.00 min

Lab File: VX006579.D

Acq: 17 Dec 2018 18:06

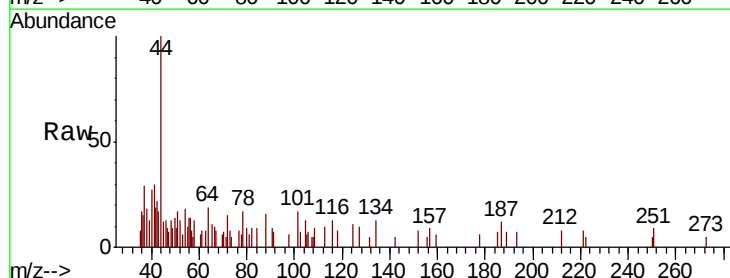
Tgt Ion: 42 Resp: 805

Ion Ratio Lower Upper

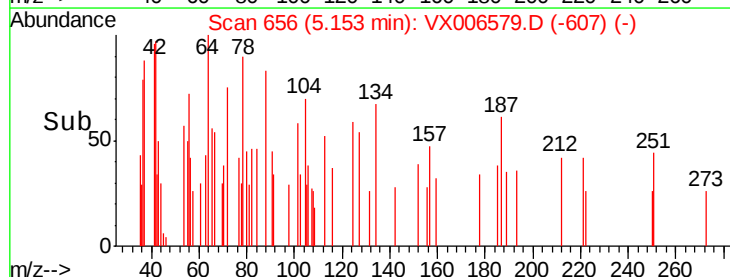
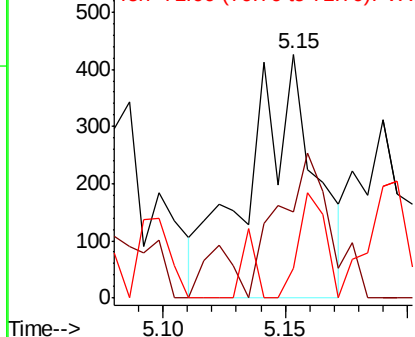
42 100

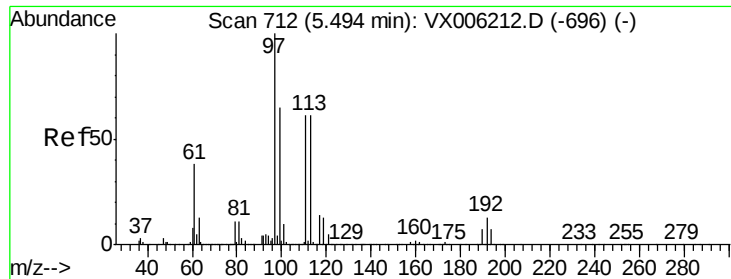
72 46.8 37.8 56.8

71 17.3 35.2 52.8#



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





#32

1,1,1-Trichloroethane

Concen: 0.331 ug/l

RT: 5.50 min Scan# 713

Delta R.T. 0.01 min

Lab File: VX006579.D

Acq: 17 Dec 2018 18:06

Instrument :

MSVOA_X

ClientSampleId :

SA.MW130I-20181208

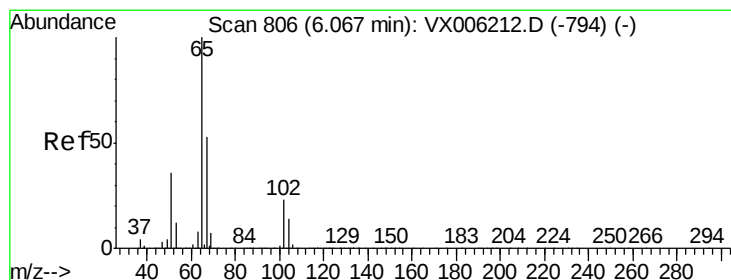
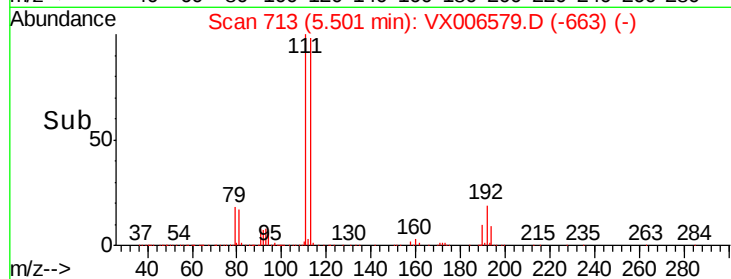
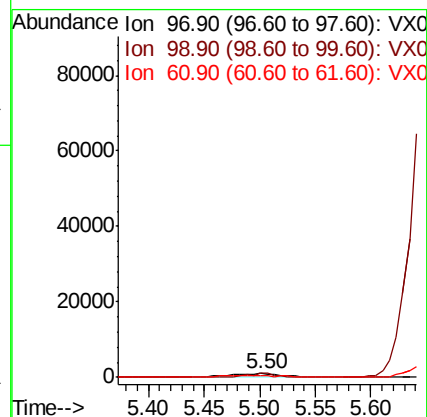
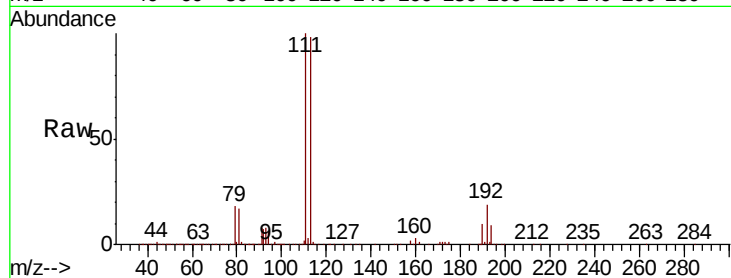
Tot Ion: 97 Resp: 3434

Ion Ratio Lower Upper

97 100

99 0.0 51.6 77.4#

61 34.8 30.6 46.0



#33

1,2-Dichloroethane-d4

Concen: 54.613 ug/l

RT: 6.07 min Scan# 806

Delta R.T. 0.00 min

Lab File: VX006579.D

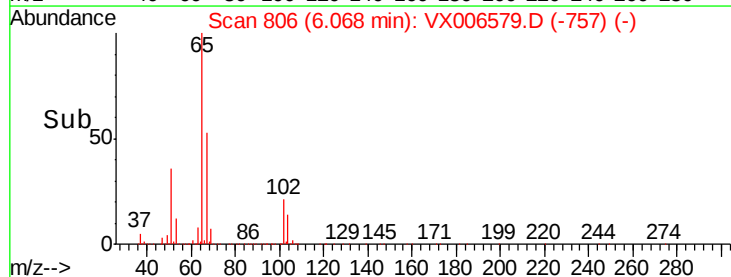
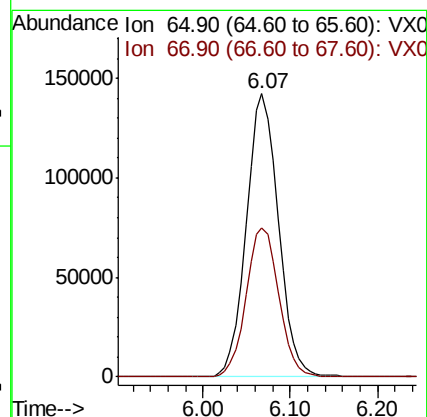
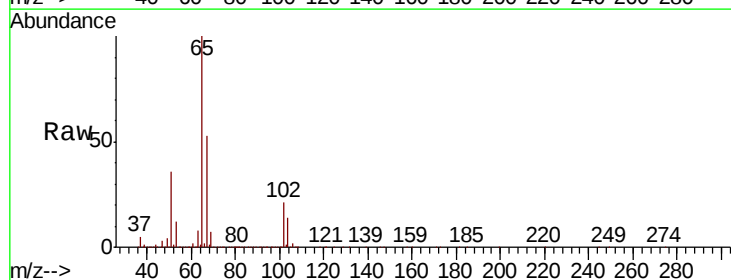
Acq: 17 Dec 2018 18:06

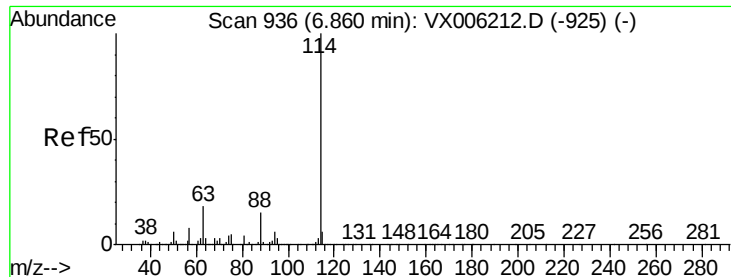
Tgt Ion: 65 Resp: 362995

Ion Ratio Lower Upper

65 100

67 53.6 0.0 107.2





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. 0.00 min

Lab File: VX006579.D

Acq: 17 Dec 2018 18:06

Instrument :

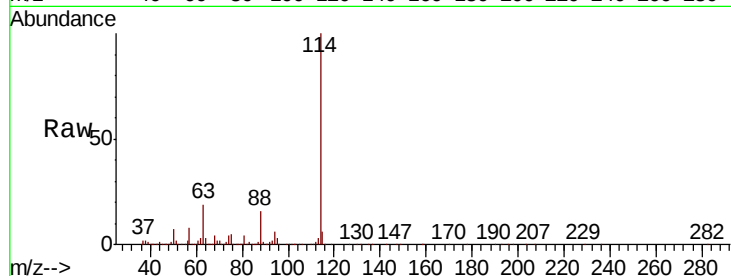
MSVOA_X

ClientSampleId :

SA.MW130I-20181208

Tot Ion:114 Resp: 1050539

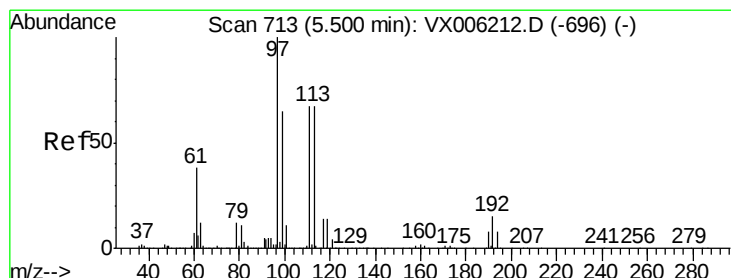
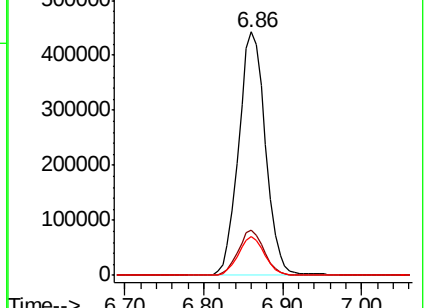
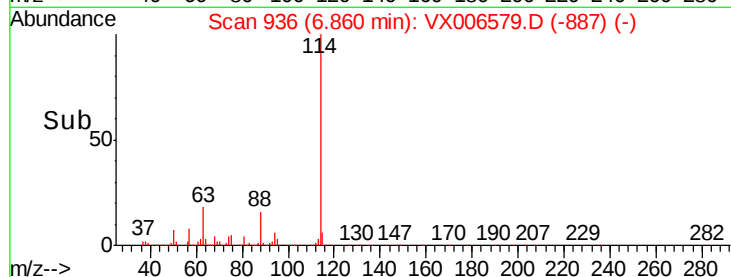
Ion	Ratio	Lower	Upper
114	100		
63	18.5	0.0	36.6
88	15.7	0.0	29.0



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: 46.522 ug/l

RT: 5.51 min Scan# 714

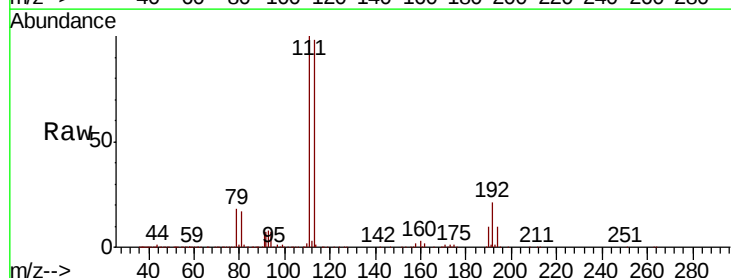
Delta R.T. 0.01 min

Lab File: VX006579.D

Acq: 17 Dec 2018 18:06

Tgt Ion:113 Resp: 316435

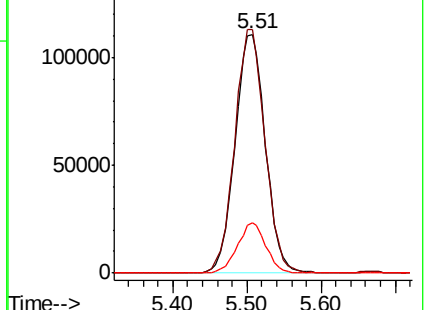
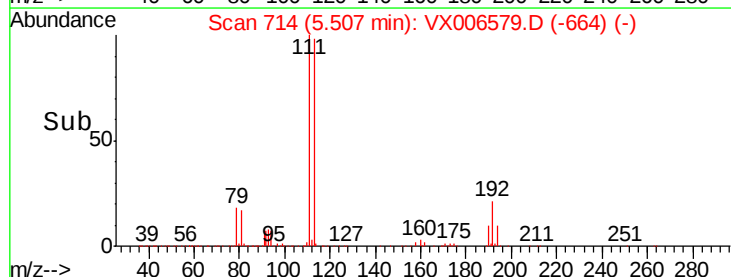
Ion	Ratio	Lower	Upper
113	100		
111	101.4	81.1	121.7
192	19.8	18.2	27.2

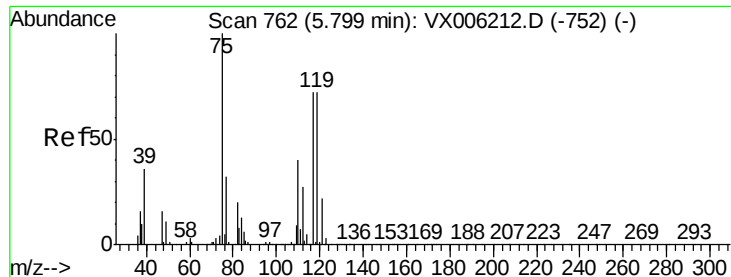


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 5.038 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.13 min

Lab File: VX006579.D

Acq: 17 Dec 2018 18:06

Instrument :

MSVOA_X

ClientSampleId :

SA.MW130I-20181208

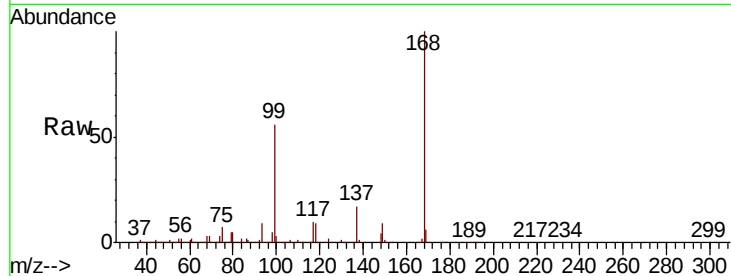
Tot Ion: 75 Resp: 44573

Ion Ratio Lower Upper

75 100

110 10.6 20.4 61.3#

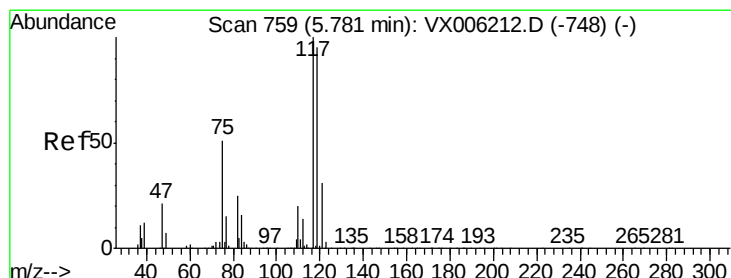
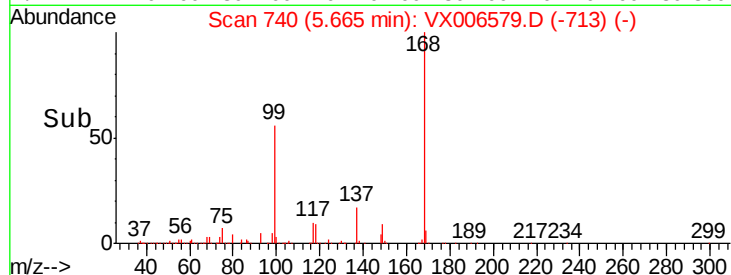
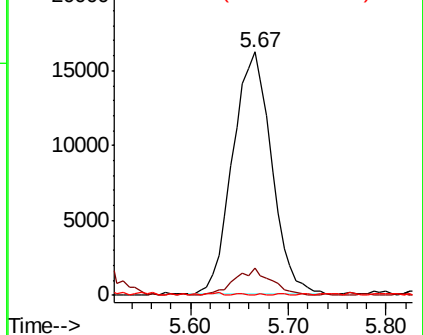
77 0.2 24.9 37.3#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0



#38

Carbon Tetrachloride

Concen: 5.995 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX006579.D

Acq: 17 Dec 2018 18:06

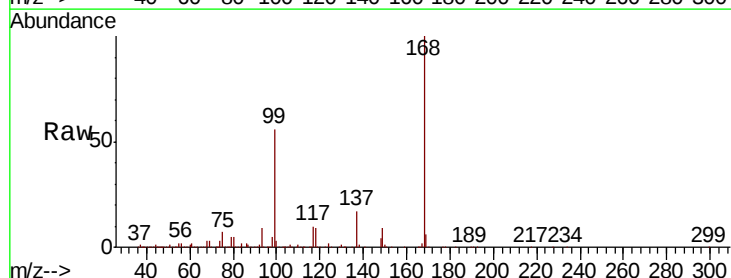
Tgt Ion: 117 Resp: 62392

Ion Ratio Lower Upper

117 100

119 4.7 75.8 113.8#

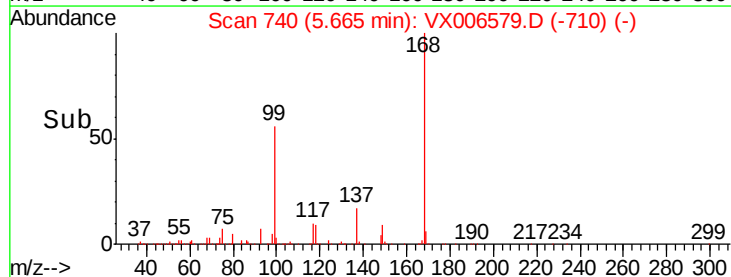
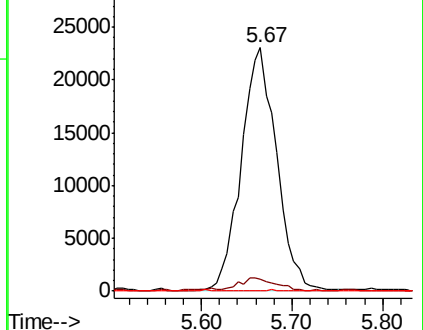
121 0.0 24.6 37.0#

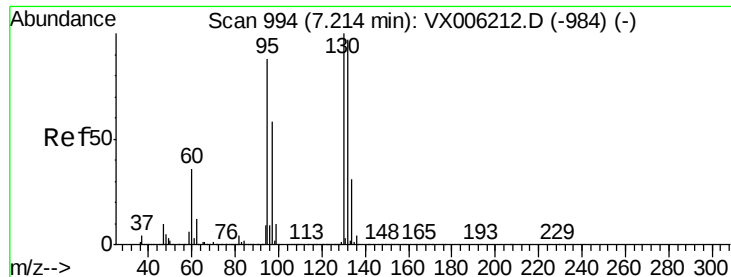


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#44

Trichloroethene

Concen: 1.364 ug/l

RT: 7.22 min Scan# 995

Delta R.T. 0.01 min

Lab File: VX006579.D

Acq: 17 Dec 2018 18:06

Instrument :

MSVOA_X

ClientSampleId :

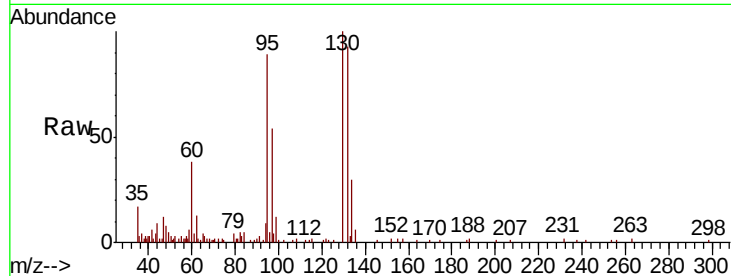
SA.MW130I-20181208

Tot Ion:130 Resp: 10945

Ion Ratio Lower Upper

130 100

95 86.9 0.0 175.8



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

7.22

6000

5000

4000

3000

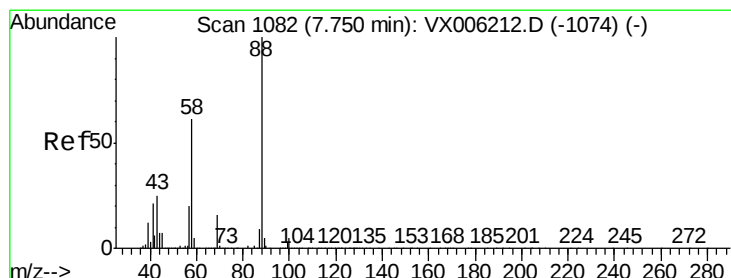
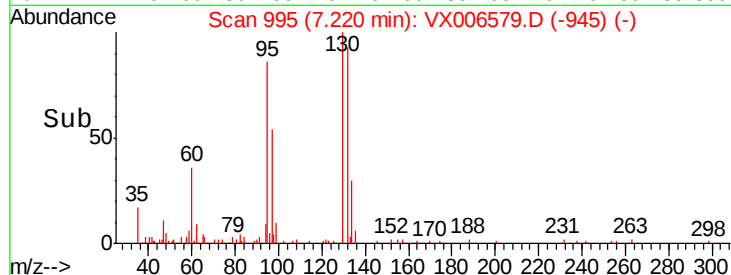
2000

1000

0

7.10 7.15 7.20 7.25 7.30

Time-->



#49

1,4-Dioxane

Concen: 0.636 ug/l

RT: 7.77 min Scan# 1085

Delta R.T. 0.02 min

Lab File: VX006579.D

Acq: 17 Dec 2018 18:06

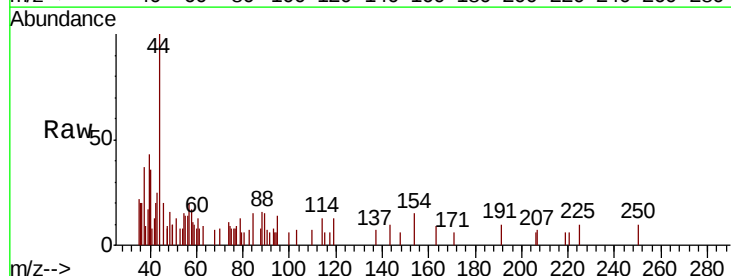
Tgt Ion: 88 Resp: 126

Ion Ratio Lower Upper

88 100

43 327.0 23.2 34.8#

58 0.0 51.4 77.0#



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

300

250

200

150

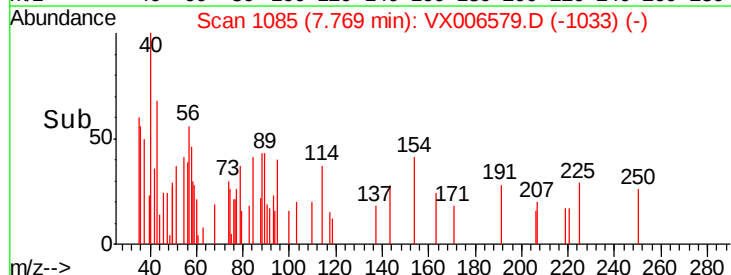
100

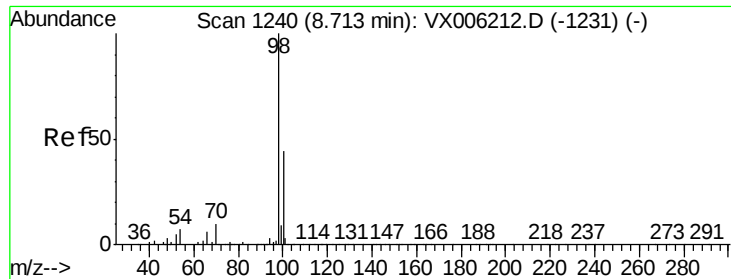
50

0

7.74 7.76 7.78 7.80

Time-->





#50

Toluene-d8

Concen: 50.399 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX006579.D

Acq: 17 Dec 2018 18:06

Instrument :

MSVOA_X

ClientSampleId :

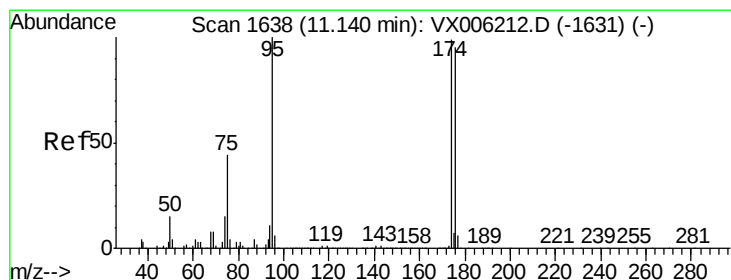
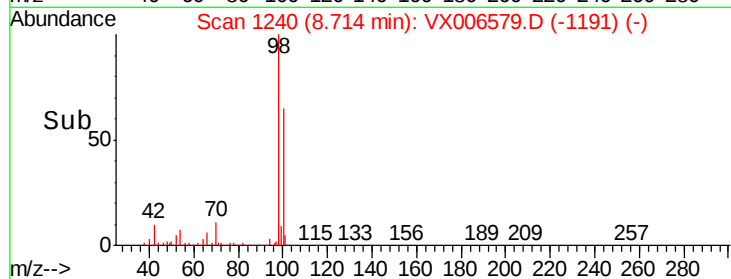
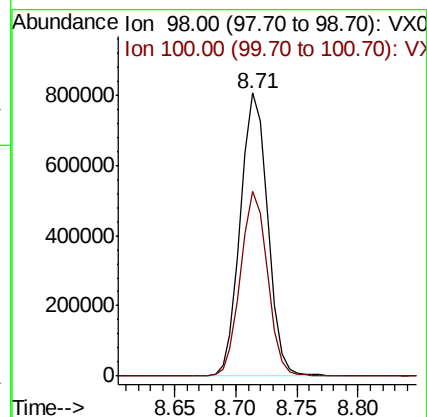
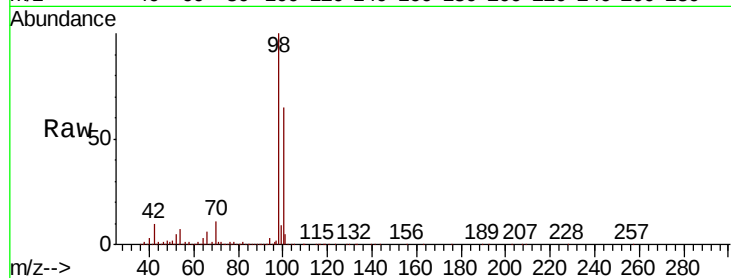
SA.MW130I-20181208

Tot Ion: 98 Resp: 1246918

Ion Ratio Lower Upper

98 100

100 64.7 52.2 78.2



#62

4-Bromofluorobenzene

Concen: 49.338 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.01 min

Lab File: VX006579.D

Acq: 17 Dec 2018 18:06

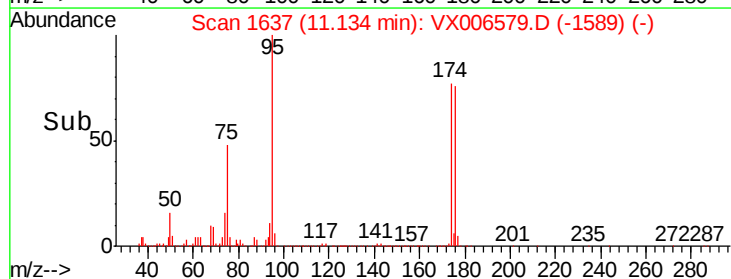
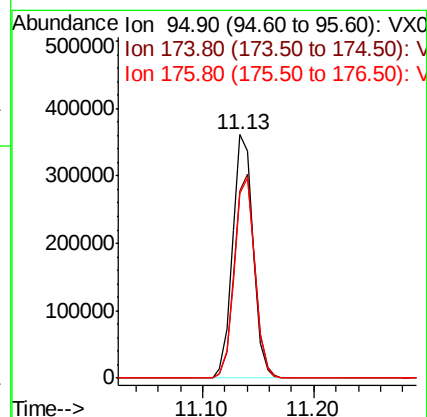
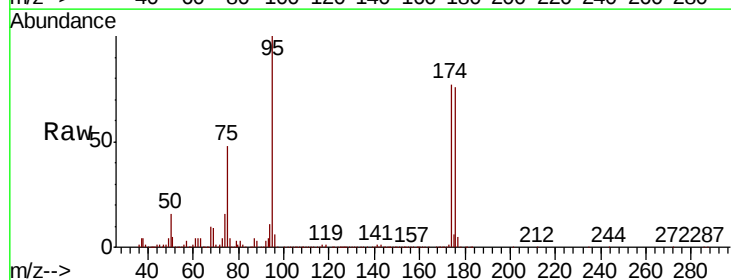
Tgt Ion: 95 Resp: 459986

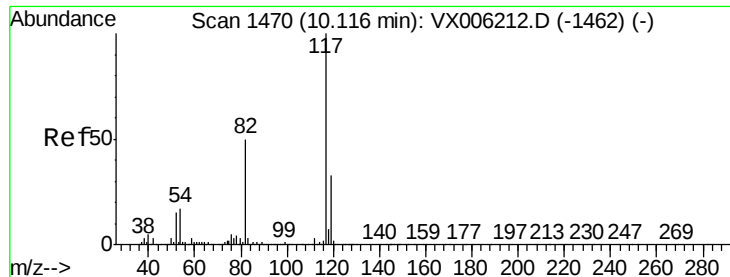
Ion Ratio Lower Upper

95 100

174 83.7 0.0 187.0

176 82.3 0.0 181.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. -0.01 min

Lab File: VX006579.D

Acq: 17 Dec 2018 18:06

Instrument :

MSVOA_X

ClientSampleId :

SA.MW130I-20181208

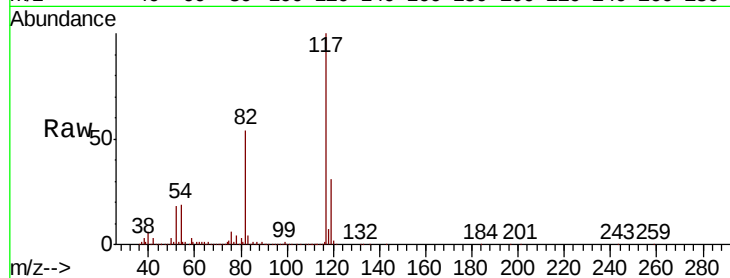
Tot Ion:117 Resp: 961288

Ion Ratio Lower Upper

117 100

82 53.8 39.6 59.4

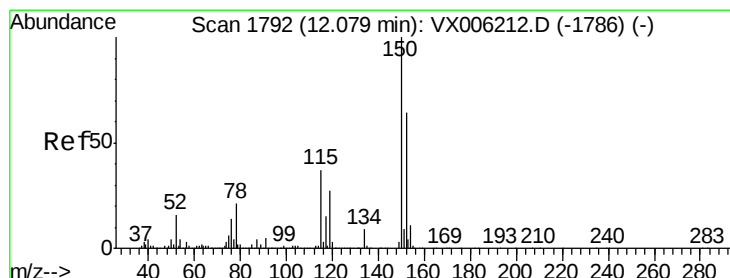
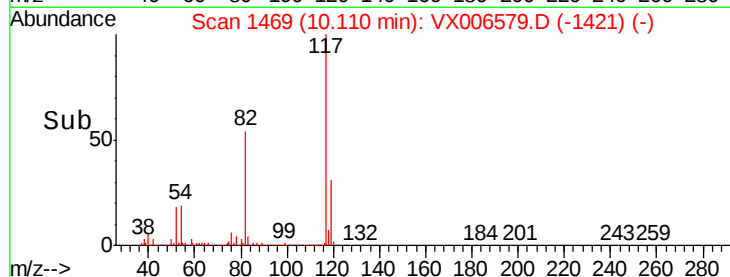
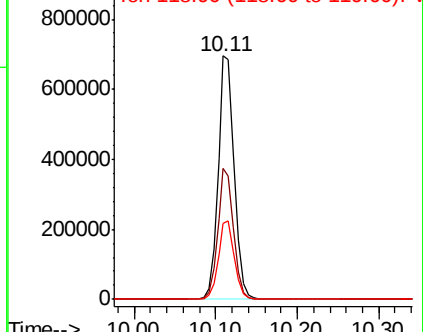
119 31.3 26.3 39.5



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: VX006579.D

Acq: 17 Dec 2018 18:06

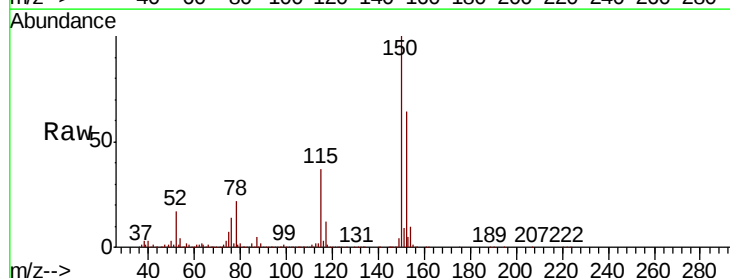
Tgt Ion:152 Resp: 460590

Ion Ratio Lower Upper

152 100

115 58.4 39.0 116.9

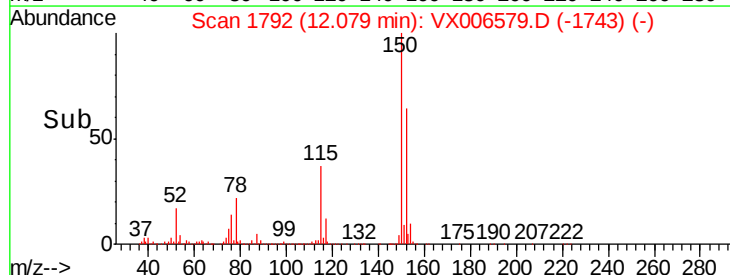
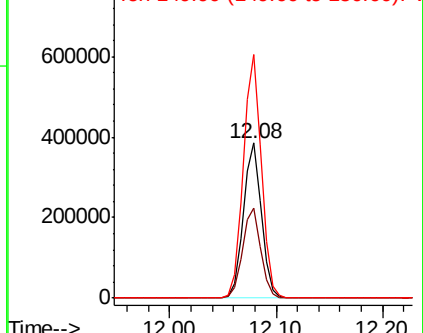
150 156.4 0.0 345.8

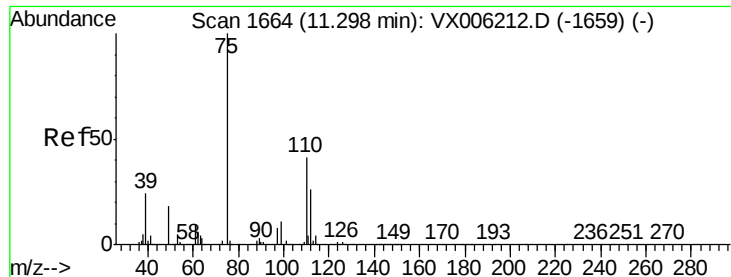


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 24.396 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX006579.D

Acq: 17 Dec 2018 18:06

Instrument :

MSVOA_X

ClientSampleId :

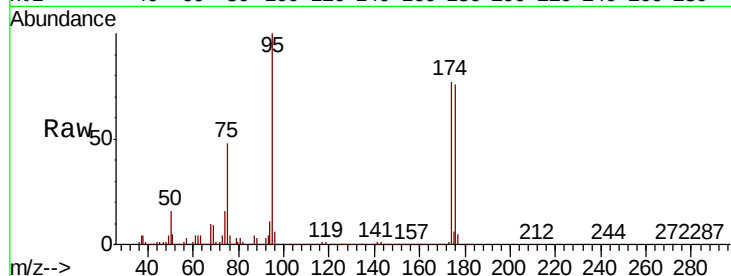
SA.MW130I-20181208

Tot Ion: 75 Resp: 216882

Ion Ratio Lower Upper

75 100

77 1.2 19.9 59.7#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

11.13

200000

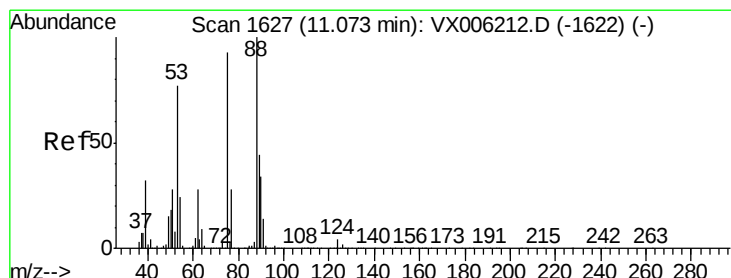
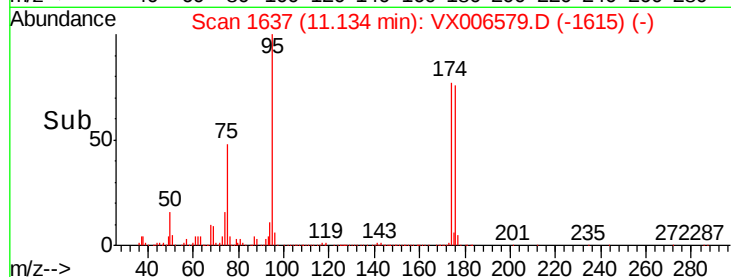
150000

100000

50000

0

Time--> 11.05 11.10 11.15 11.20



#81

trans-1,4-Dichloro-2-butene

Concen: 57.250 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX006579.D

Acq: 17 Dec 2018 18:06

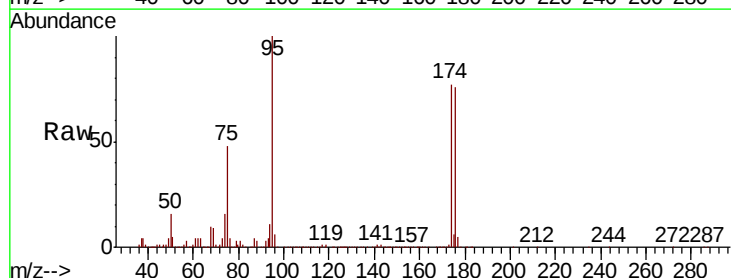
Tgt Ion: 75 Resp: 216882

Ion Ratio Lower Upper

75 100

53 0.1 64.4 96.6#

89 0.1 44.2 66.4#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0

11.13

200000

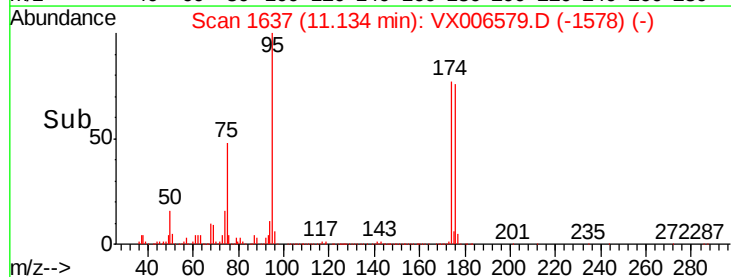
150000

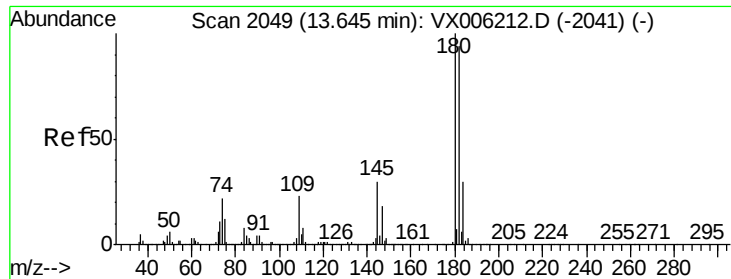
100000

50000

0

Time--> 11.05 11.10 11.15 11.20





#93

1,2,4-Trichlorobenzene

Concen: 0.299 ug/l

RT: 13.65 min Scan# 2049

Delta R.T. 0.00 min

Lab File: VX006579.D

Acq: 17 Dec 2018 18:06

Instrument :

MSVOA_X

ClientSampleId :

SA.MW130I-20181208

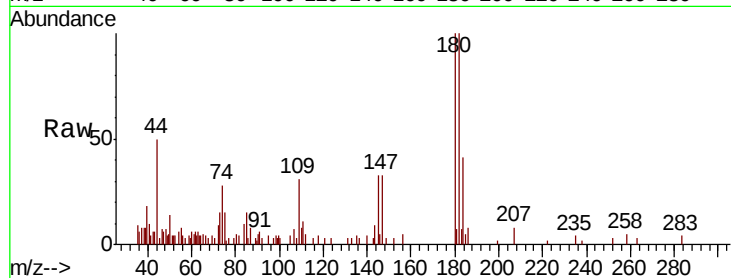
Tot Ion:180 Resp: 3405

Ion Ratio Lower Upper

180 100

182 93.3 47.3 141.9

145 29.3 14.6 43.8



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V

