

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX121918\
 Data File : VX006657.D
 Acq On : 20 Dec 2018 00:17
 Operator : JC/MD
 Sample : J6484-04
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 966-MW-04(23)

Quant Time: Dec 20 04:07:31 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121818W.M
 Quant Title : SW846 8260
 QLast Update : Wed Dec 19 15:20:58 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	637494	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	1013014	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	927070	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	441826	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.07	65	354161	51.55	ug/l	0.00
Spiked Amount			Recovery	=	103.10%	
35) Dibromofluoromethane	5.50	113	304346	47.51	ug/l	0.00
Spiked Amount			Recovery	=	95.02%	
50) Toluene-d8	8.71	98	1192602	49.38	ug/l	0.00
Spiked Amount			Recovery	=	98.76%	
62) 4-Bromofluorobenzene	11.13	95	436591	49.36	ug/l	0.00
Spiked Amount			Recovery	=	98.72%	

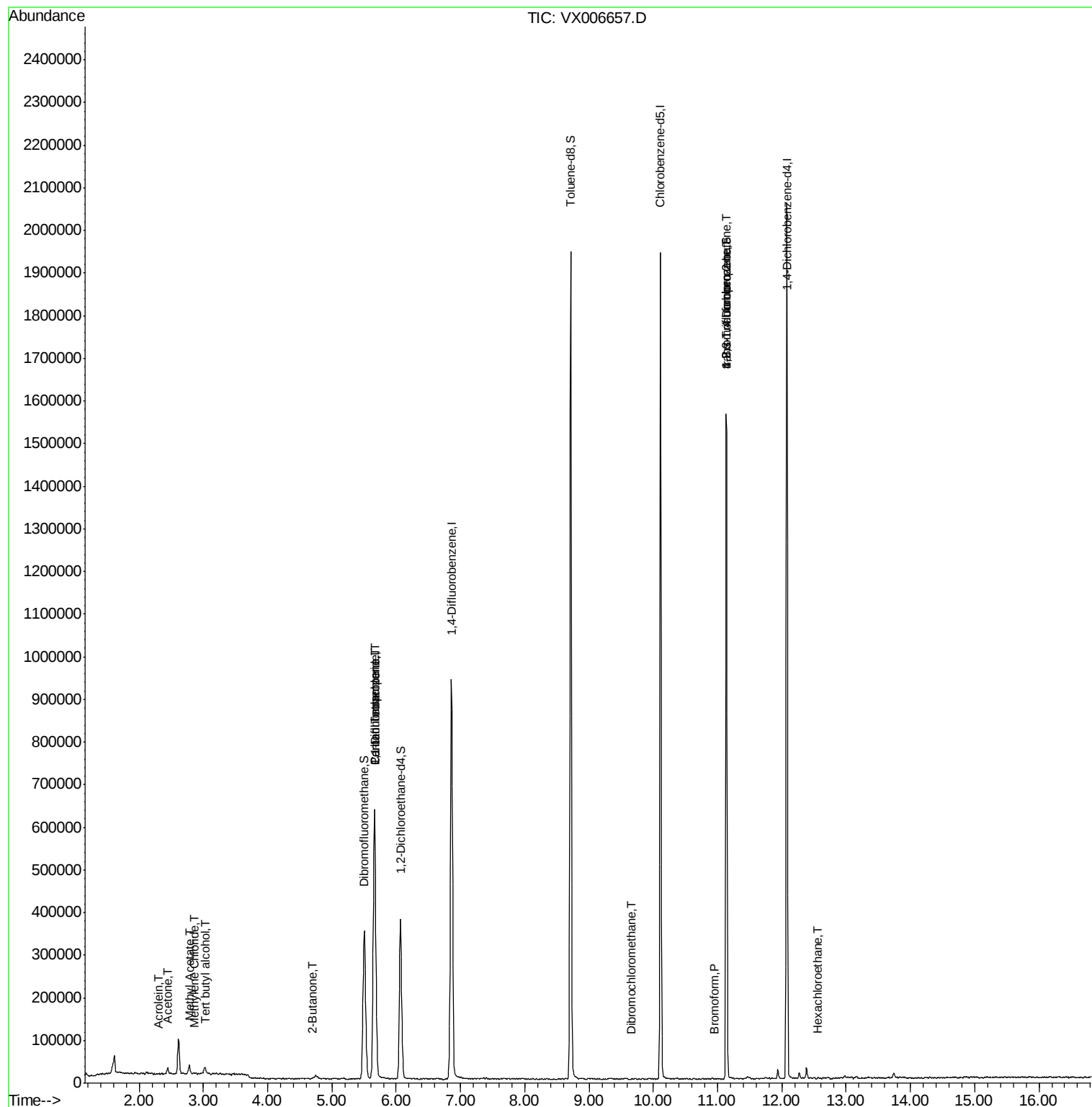
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.65	94	314	Below Cal	#	38
11) Tert butyl alcohol	3.02	59	11014	7.183	ug/l #	76
13) Acrolein	2.30	56	235	0.227	ug/l #	61
16) Acetone	2.45	43	15196	4.814	ug/l	100
18) Methyl Acetate	2.78	43	24408	2.630	ug/l	95
20) Methylene Chloride	2.85	84	1315	0.201	ug/l #	46
25) 2-Butanone	4.70	43	2797	0.630	ug/l #	61
28) Bromochloromethane	5.01	49	228	Below Cal	#	51
36) 1,1-Dichloropropene	5.66	75	43369	5.169	ug/l #	49
38) Carbon Tetrachloride	5.66	117	59780	7.332	ug/l #	13
49) 1,4-Dioxane	7.79	88	232	Below Cal	#	19
60) Dibromochloromethane	9.66	129	101	2.338	ug/l	94
71) Bromoform	10.96	173	131	4.482	ug/l #	28
76) 1,2,3-Trichloropropane	11.13	75	200521	24.421	ug/l #	40
81) trans-1,4-Dichloro-2-buten	11.13	75	200521	72.262	ug/l #	10
90) Hexachloroethane	12.56	117	57	3.306	ug/l	98

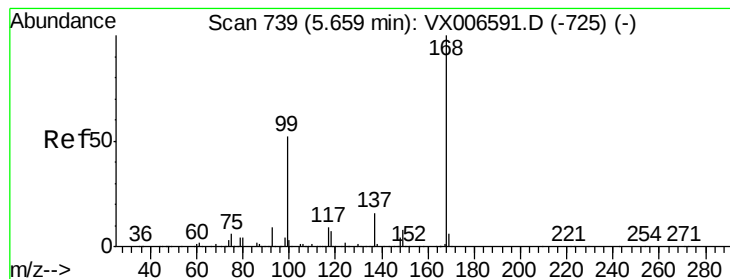
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.01 min

Lab File: VX006657.D

Acq: 20 Dec 2018 00:17

Instrument :

MSVOA_X

ClientSampleId :

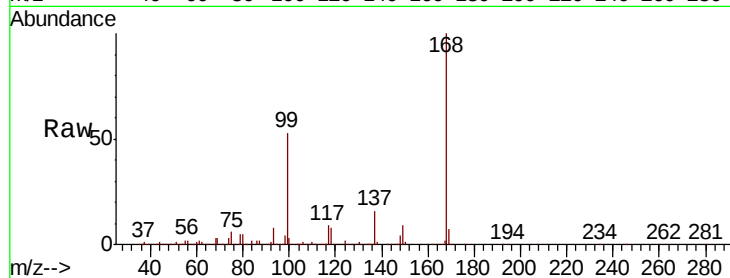
966-MW-04(23)

Tot Ion:168 Resp: 637494

Ion Ratio Lower Upper

168 100

99 53.2 41.8 62.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

250000

200000

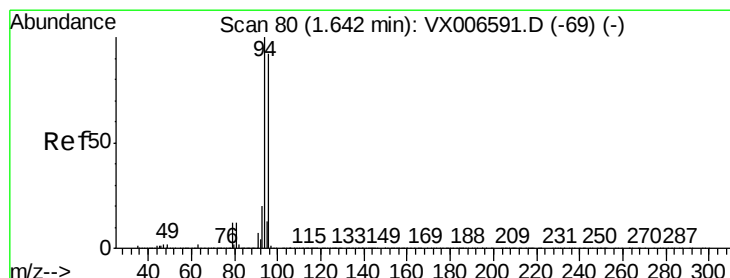
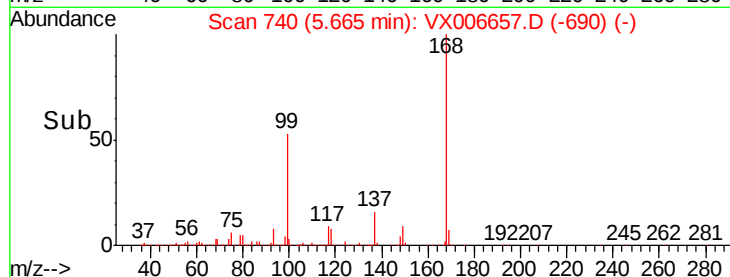
150000

100000

50000

0

Time--> 5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 82

Delta R.T. 0.01 min

Lab File: VX006657.D

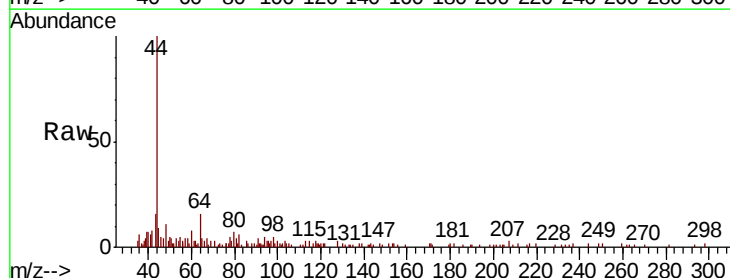
Acq: 20 Dec 2018 00:17

Tgt Ion: 94 Resp: 314

Ion Ratio Lower Upper

94 100

96 32.5 73.4 110.2#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

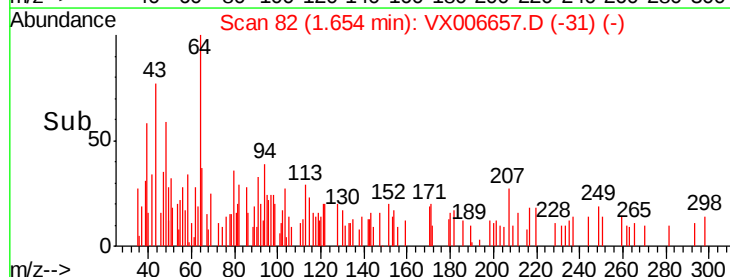
600

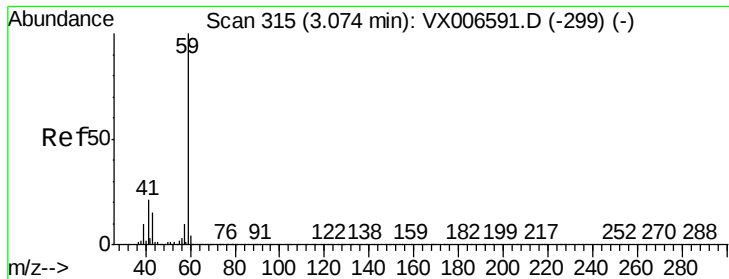
400

200

0

Time--> 1.62 1.64 1.66 1.68



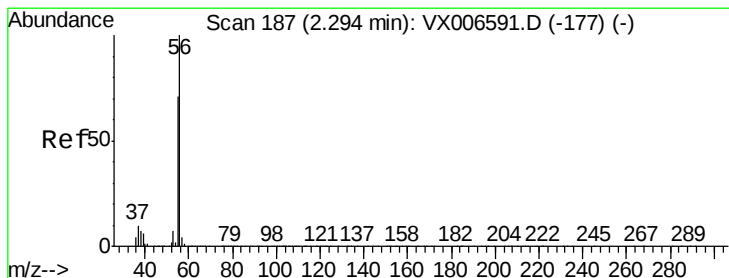
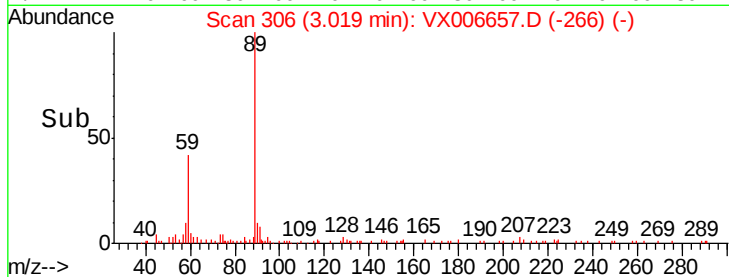
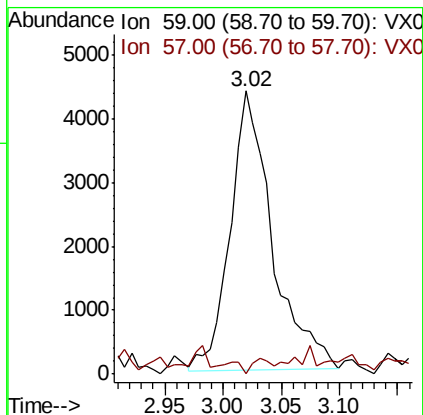
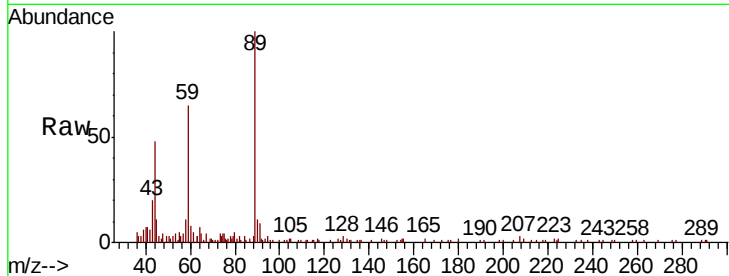


#11

Tert butyl alcohol
 Concen: 7.183 ug/l
 RT: 3.02 min Scan# 306
 Delta R.T. -0.05 min
 Lab File: VX006657.D
 Acq: 20 Dec 2018 00:17

Instrument :
 MSVOA_X
 ClientSampleId :
 966-MW-04(23)

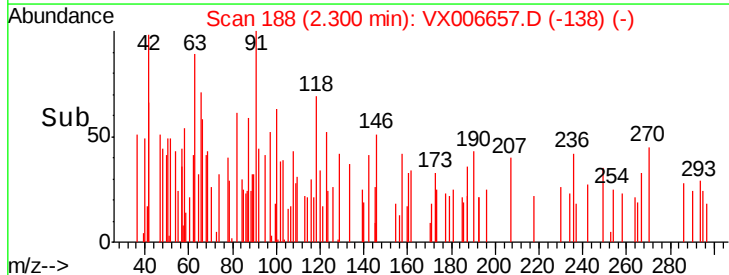
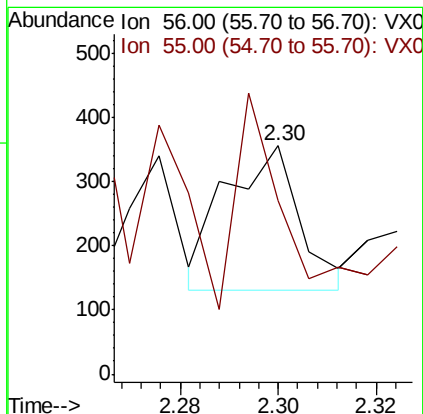
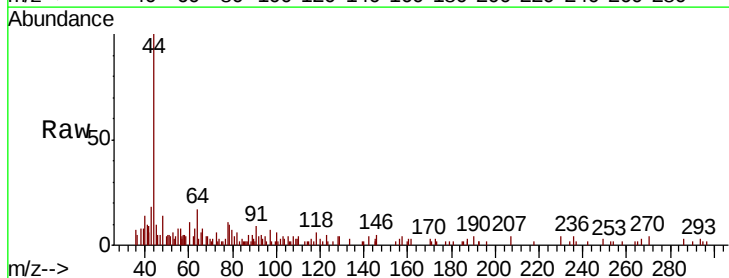
Tot Ion: 59 Resp: 11014
 Ion Ratio Lower Upper
 59 100
 57 1.7 8.5 12.7#

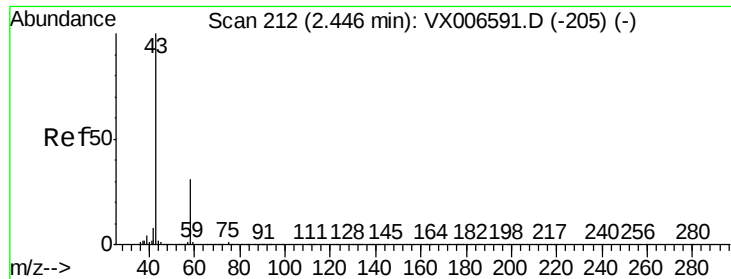


#13

Acrolein
 Concen: 0.227 ug/l
 RT: 2.30 min Scan# 188
 Delta R.T. 0.01 min
 Lab File: VX006657.D
 Acq: 20 Dec 2018 00:17

Tgt Ion: 56 Resp: 235
 Ion Ratio Lower Upper
 56 100
 55 105.5 58.2 87.4#





#16

Acetone

Concen: 4.814 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX006657.D

Acq: 20 Dec 2018 00:17

Instrument :

MSVOA_X

ClientSampleId :

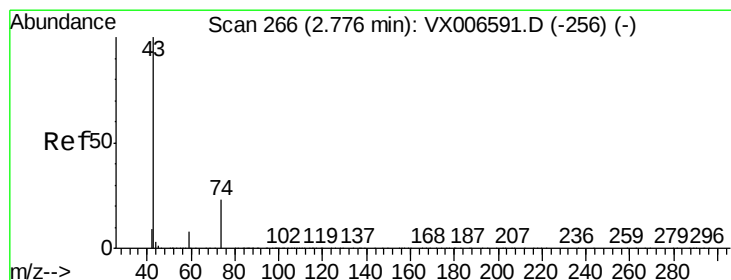
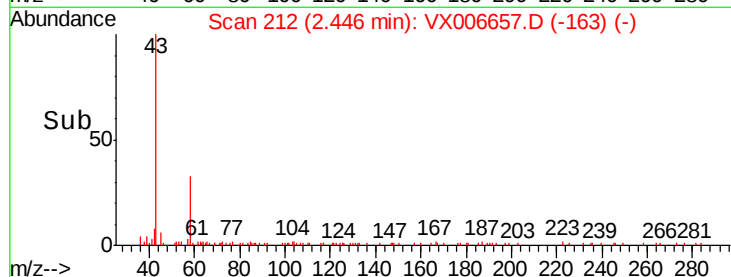
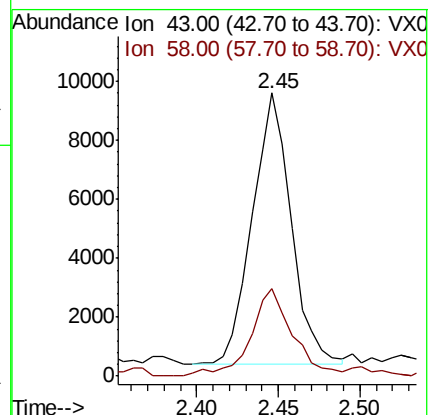
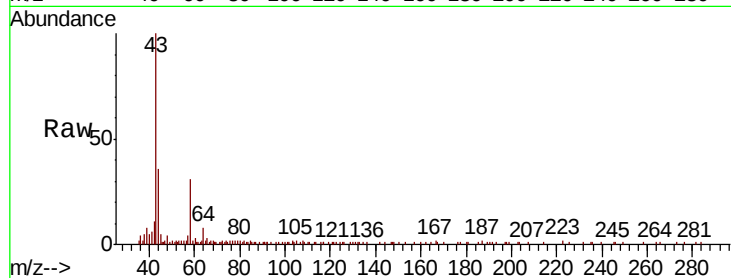
966-MW-04(23)

Tot Ion: 43 Resp: 15196

Ion Ratio Lower Upper

43 100

58 31.4 25.0 37.6



#18

Methyl Acetate

Concen: 2.630 ug/l

RT: 2.78 min Scan# 267

Delta R.T. 0.01 min

Lab File: VX006657.D

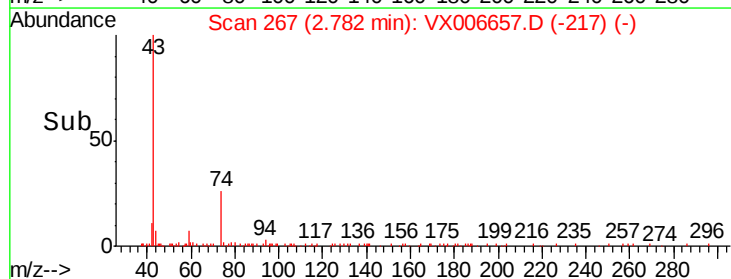
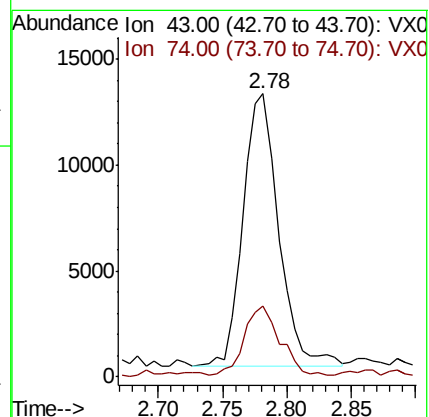
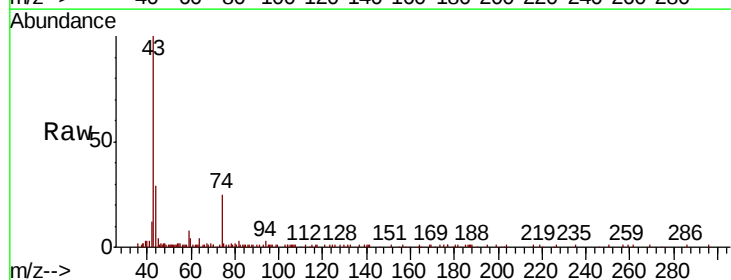
Acq: 20 Dec 2018 00:17

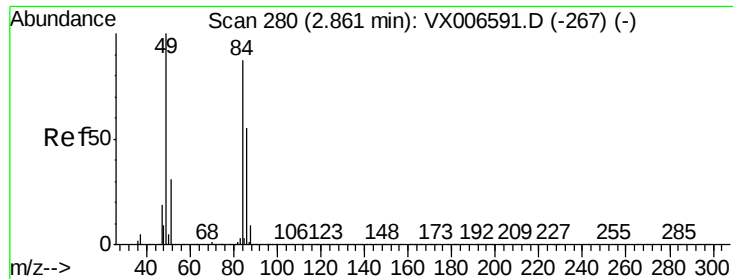
Tgt Ion: 43 Resp: 24408

Ion Ratio Lower Upper

43 100

74 25.8 18.6 28.0





#20

Methvlene Chloride

Concen: 0.201 ug/l

RT: 2.85 min Scan# 279

Delta R.T. -0.01 min

Lab File: VX006657.D

Acq: 20 Dec 2018 00:17

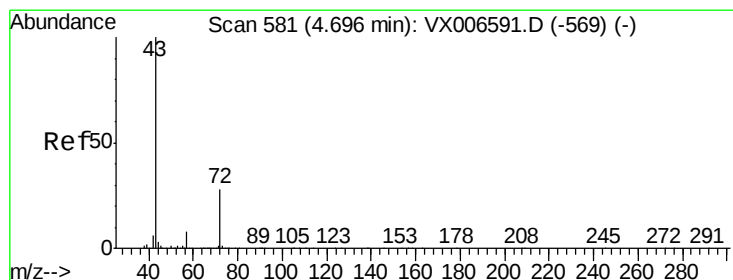
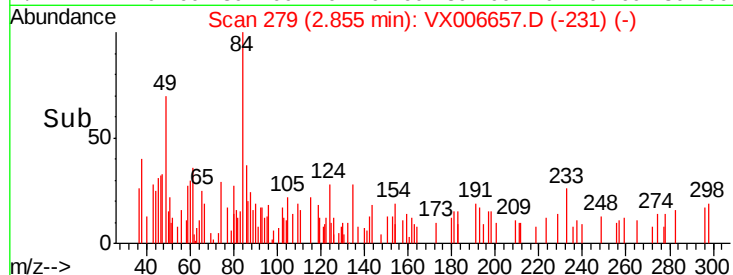
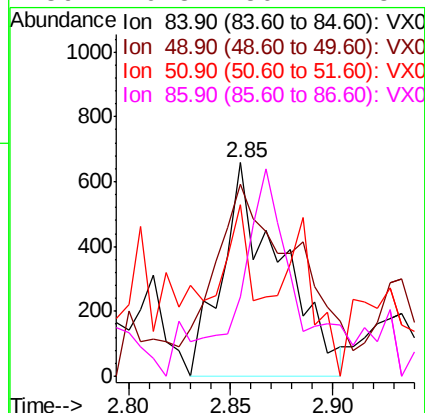
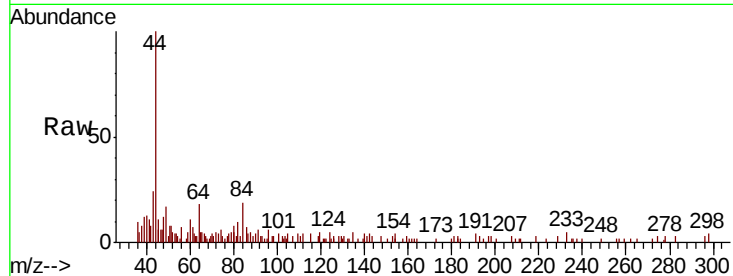
Instrument :

MSVOA_X

ClientSampleId :

966-MW-04(23)

Tot Ion:	84	Resp:	1315
Ion	Ratio	Lower	Upper
84	100		
49	64.0	91.8	137.6#
51	80.1	28.5	42.7#
86	20.8	50.2	75.2#



#25

2-Butanone

Concen: 0.630 ug/l

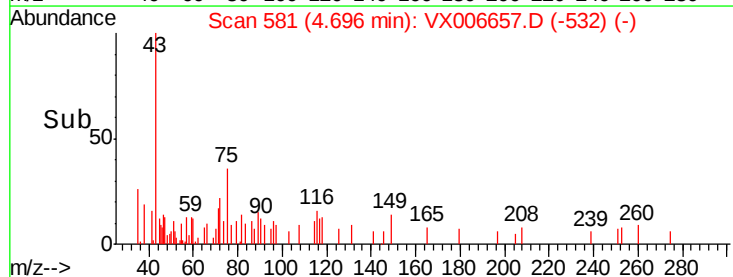
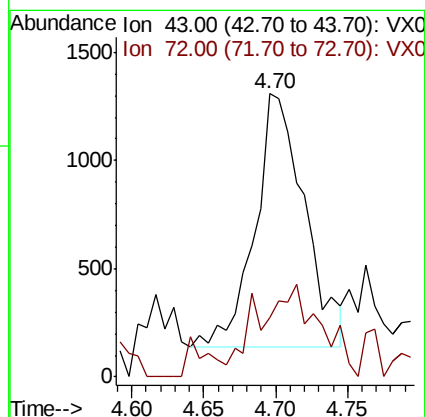
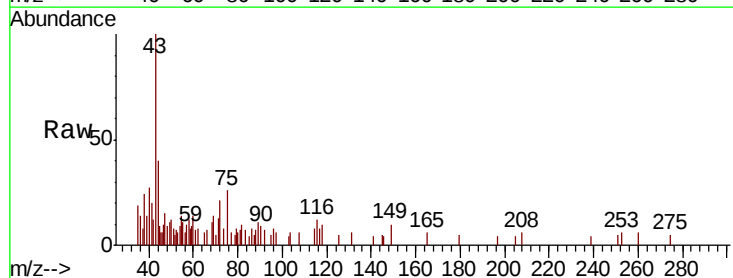
RT: 4.70 min Scan# 581

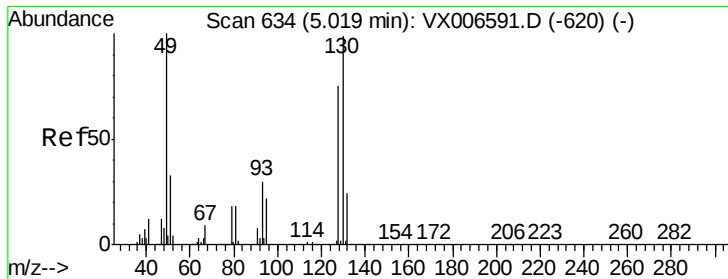
Delta R.T. 0.00 min

Lab File: VX006657.D

Acq: 20 Dec 2018 00:17

Tgt Ion:	43	Resp:	2797
Ion	Ratio	Lower	Upper
43	100		
72	7.5	22.4	33.6#





#28

Bromochloromethane

Concen: Below Cal

RT: 5.01 min Scan# 633

Delta R.T. -0.01 min

Lab File: VX006657.D

Acq: 20 Dec 2018 00:17

Instrument :

MSVOA_X

ClientSampleId :

966-MW-04(23)

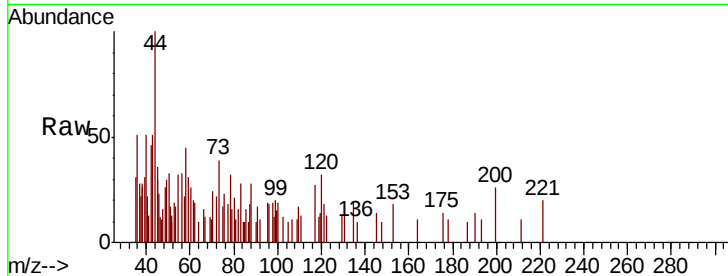
Tot Ion: 49 Resp: 228

Ion Ratio Lower Upper

49 100

129 0.0 0.0 5.4

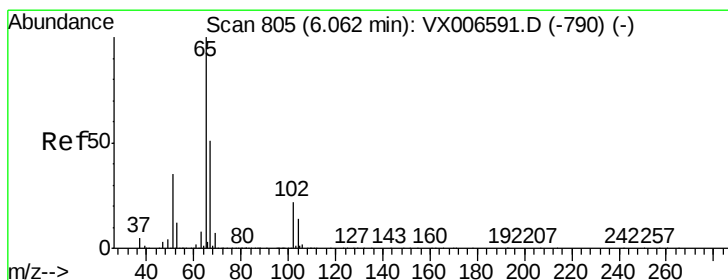
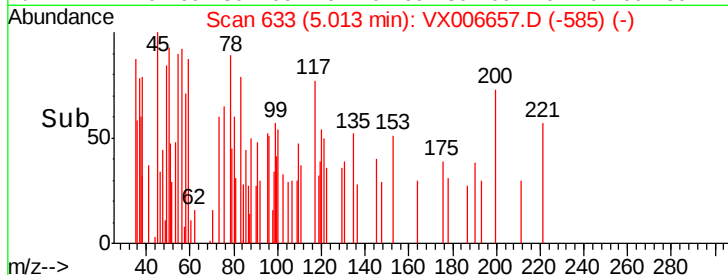
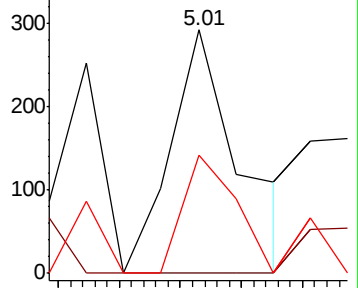
130 47.8 77.7 116.5#



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



#33

1,2-Dichloroethane-d4

Concen: 51.547 ug/l

RT: 6.07 min Scan# 806

Delta R.T. 0.01 min

Lab File: VX006657.D

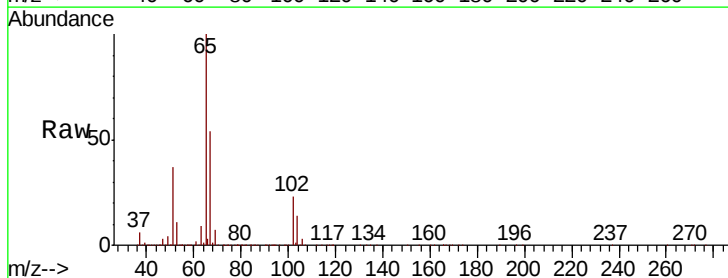
Acq: 20 Dec 2018 00:17

Tgt Ion: 65 Resp: 354161

Ion Ratio Lower Upper

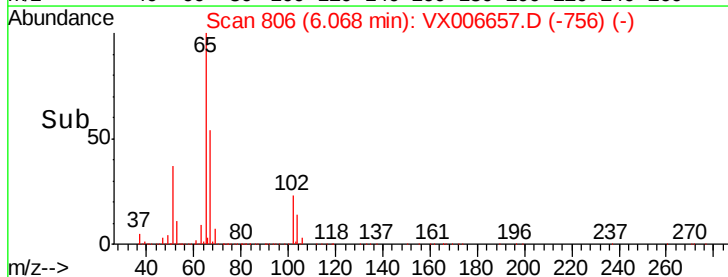
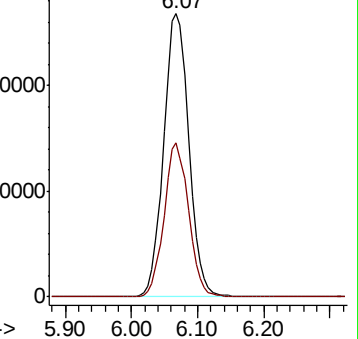
65 100

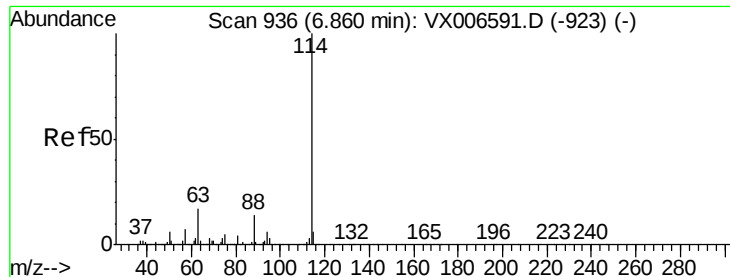
67 52.8 0.0 105.0



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: VX006657.D

Acq: 20 Dec 2018 00:17

Instrument :

MSVOA_X

ClientSampleId :

966-MW-04(23)

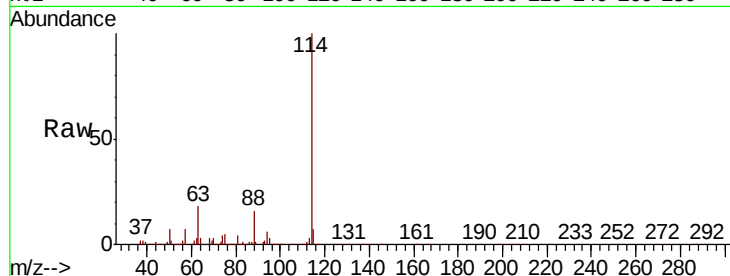
Tot Ion:114 Resp: 1013014

Ion Ratio Lower Upper

114 100

63 17.7 0.0 34.8

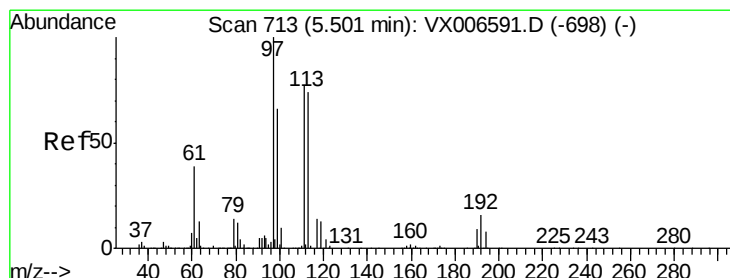
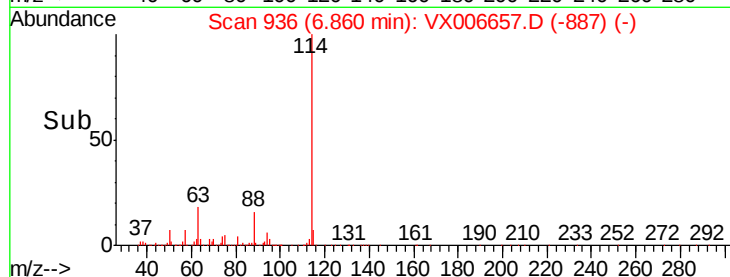
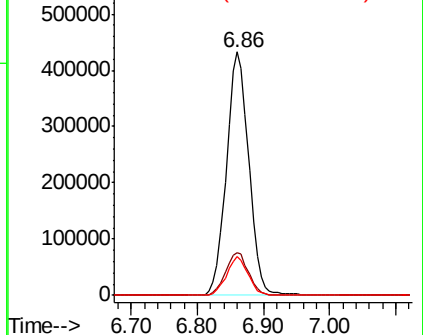
88 15.9 0.0 28.8



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: 47.509 ug/l

RT: 5.50 min Scan# 713

Delta R.T. 0.00 min

Lab File: VX006657.D

Acq: 20 Dec 2018 00:17

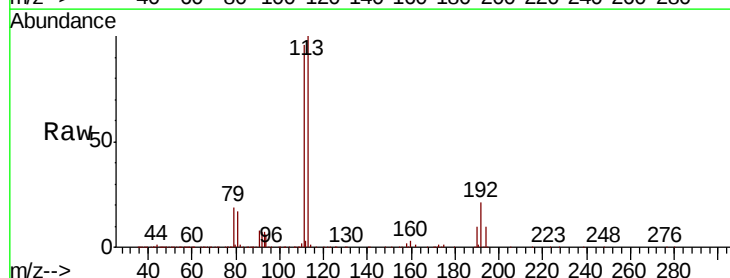
Tgt Ion:113 Resp: 304346

Ion Ratio Lower Upper

113 100

111 100.7 81.6 122.4

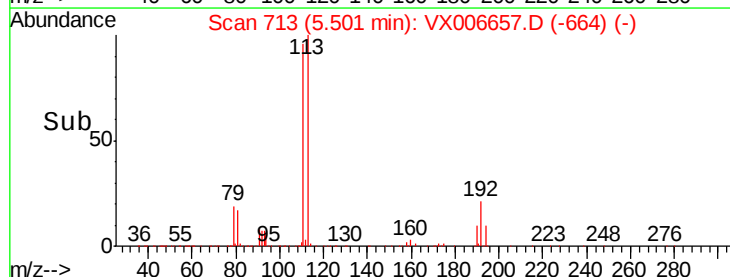
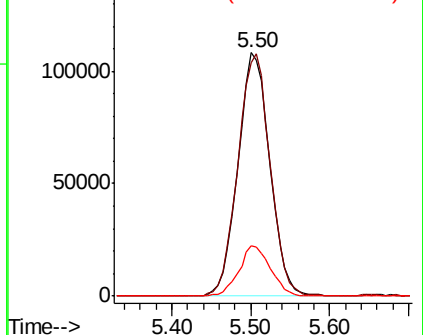
192 20.3 16.7 25.1

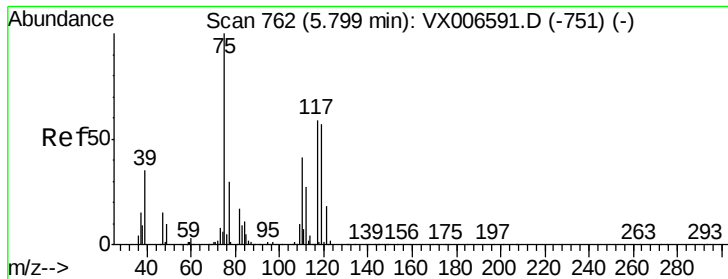


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 5.169 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX006657.D

Acq: 20 Dec 2018 00:17

Instrument :

MSVOA_X

ClientSampleId :

966-MW-04(23)

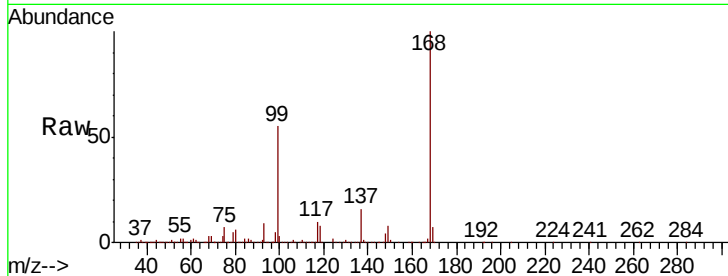
Tot Ion: 75 Resp: 43369

Ion Ratio Lower Upper

75 100

110 10.2 20.2 60.5#

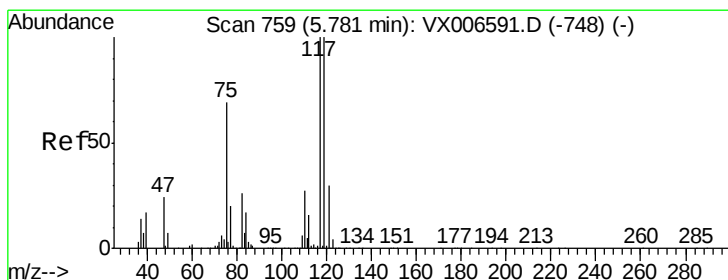
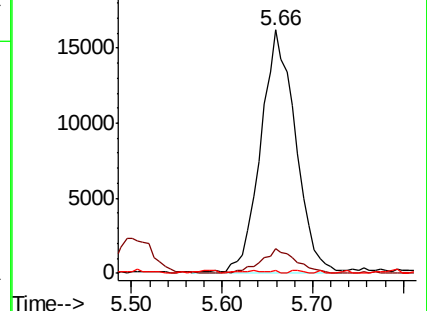
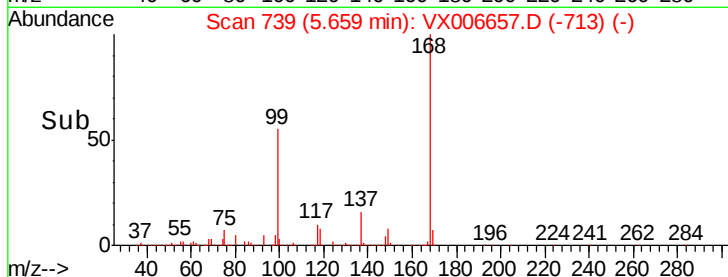
77 1.0 24.8 37.2#



Abundance Ion 74.90 (74.60 to 75.60): VX006657.D (-713) (-)

Ion 109.90 (109.60 to 110.60): VX006657.D (-713) (-)

Ion 76.90 (76.60 to 77.60): VX006657.D (-713) (-)



#38

Carbon Tetrachloride

Concen: 7.332 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.12 min

Lab File: VX006657.D

Acq: 20 Dec 2018 00:17

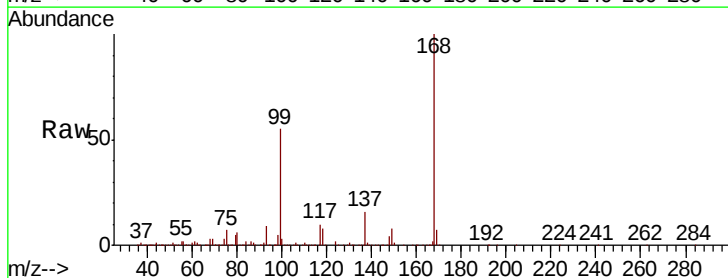
Tgt Ion: 117 Resp: 59780

Ion Ratio Lower Upper

117 100

119 3.7 79.4 119.2#

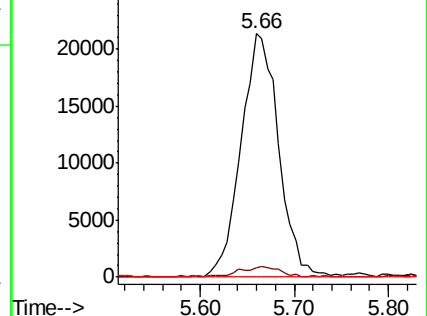
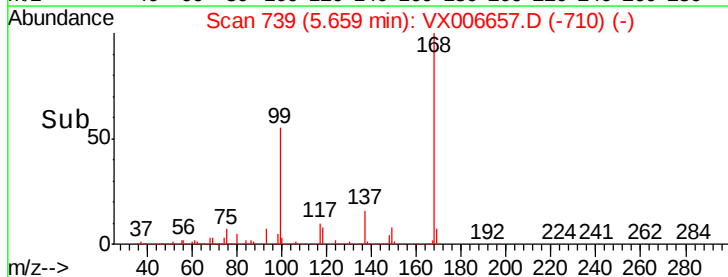
121 0.0 24.0 36.0#

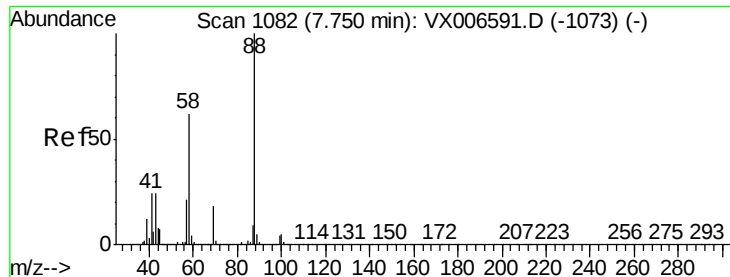


Abundance Ion 116.80 (116.50 to 117.50): VX006657.D (-710) (-)

Ion 118.80 (118.50 to 119.50): VX006657.D (-710) (-)

Ion 120.80 (120.50 to 121.50): VX006657.D (-710) (-)

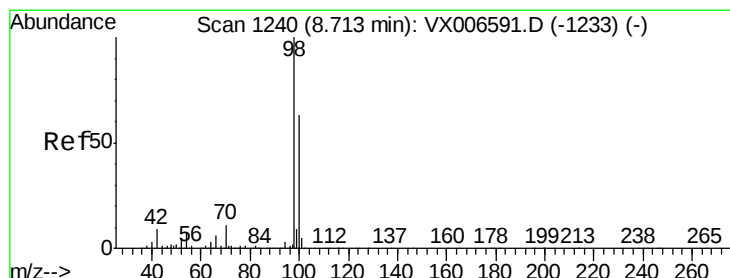
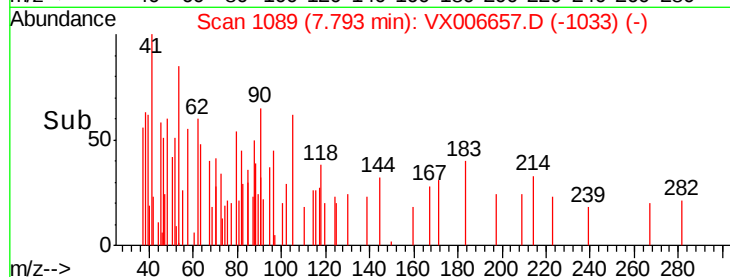
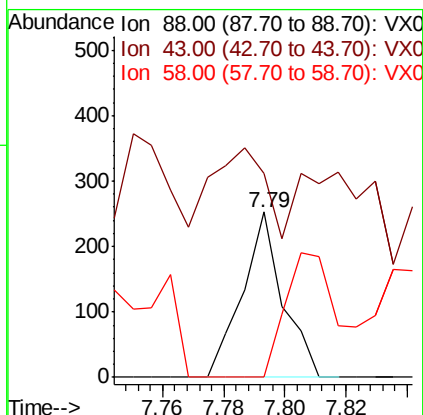
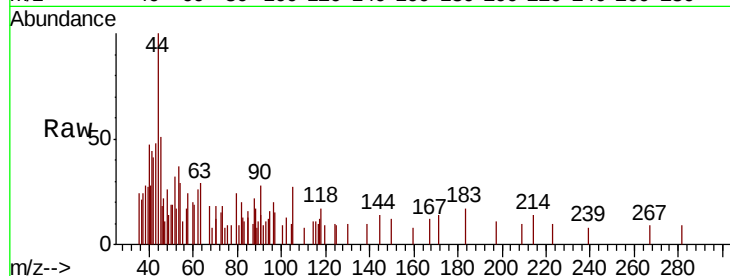




#49
1,4-Dioxane
Concen: Below Cal
RT: 7.79 min Scan# 1089
Delta R.T. 0.04 min
Lab File: VX006657.D
Acq: 20 Dec 2018 00:17

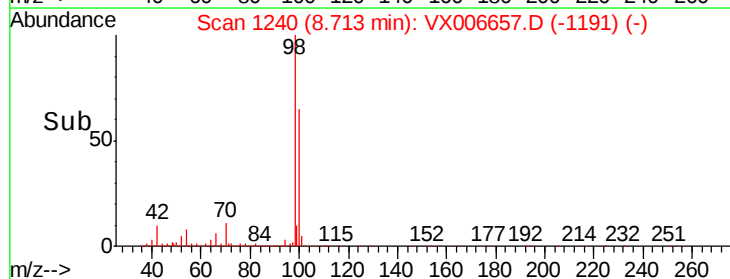
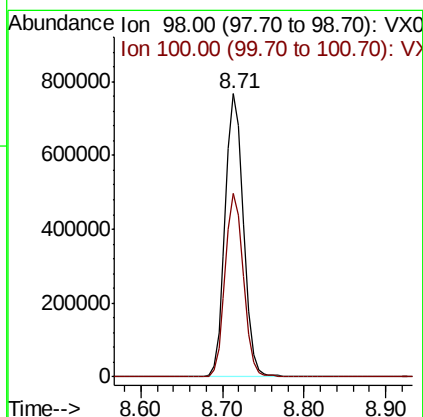
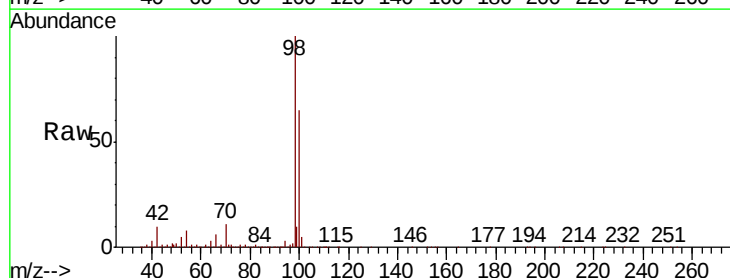
Instrument :
MSVOA_X
ClientSampleId :
966-MW-04(23)

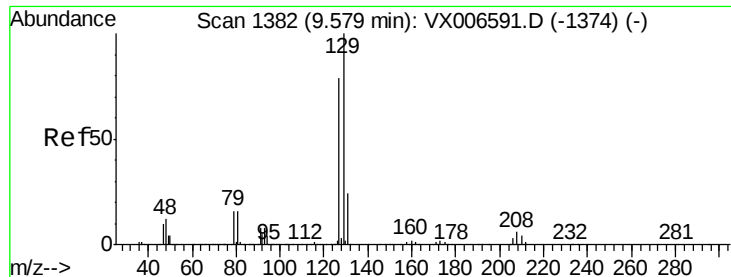
Tot Ion: 88 Resp: 232
Ion Ratio Lower Upper
88 100
43 69.4 22.2 33.4#
58 0.0 51.0 76.4#



#50
Toluene-d8
Concen: 49.381 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. 0.00 min
Lab File: VX006657.D
Acq: 20 Dec 2018 00:17

Tgt Ion: 98 Resp: 1192602
Ion Ratio Lower Upper
98 100
100 64.8 52.0 78.0





#60

Dibromochloromethane

Concen: 2.338 ug/l

RT: 9.66 min Scan# 1396

Delta R.T. 0.09 min

Lab File: VX006657.D

Acq: 20 Dec 2018 00:17

Instrument :

MSVOA_X

ClientSampleId :

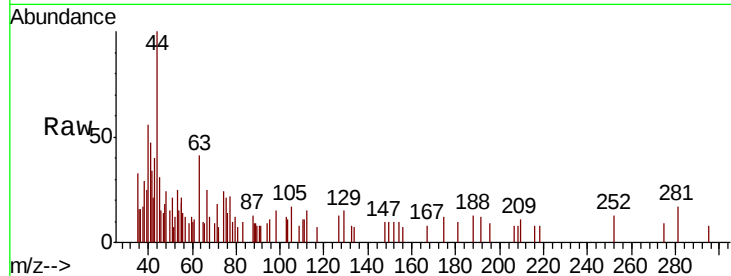
966-MW-04(23)

Tot Ion:129 Resp: 101

Ion Ratio Lower Upper

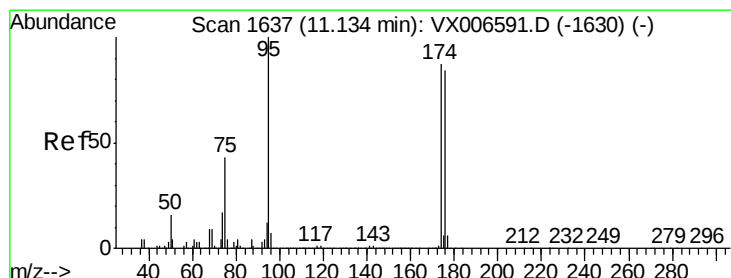
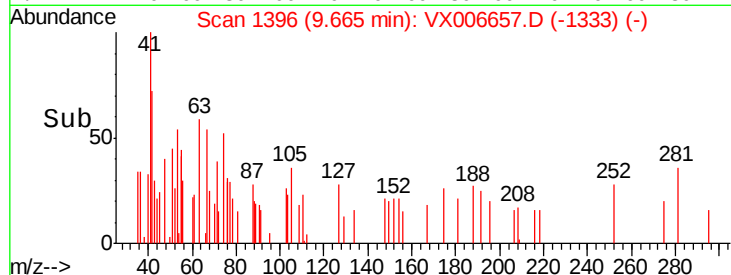
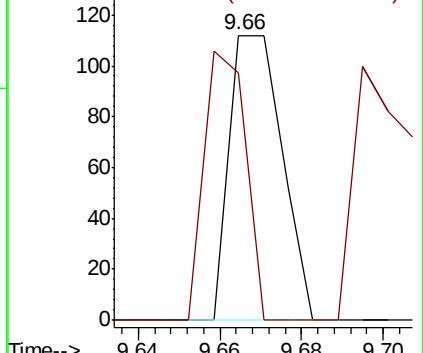
129 100

127 73.3 39.3 117.8



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V



#62

4-Bromofluorobenzene

Concen: 49.359 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX006657.D

Acq: 20 Dec 2018 00:17

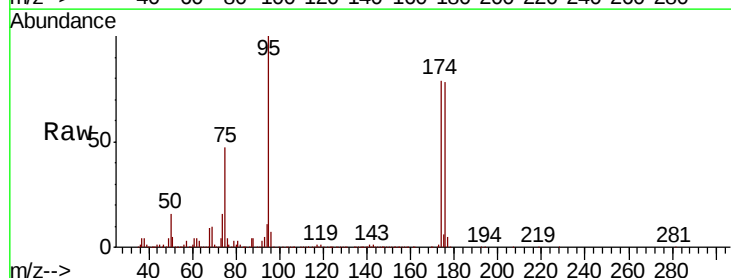
Tgt Ion: 95 Resp: 436591

Ion Ratio Lower Upper

95 100

174 84.5 0.0 182.2

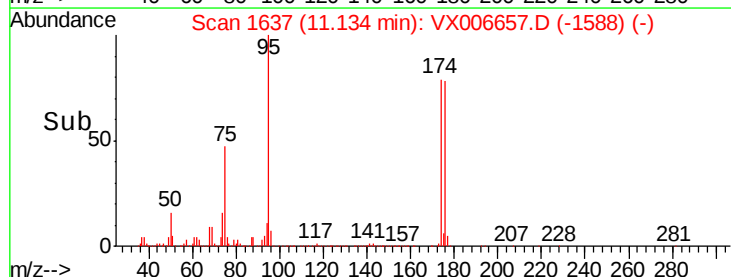
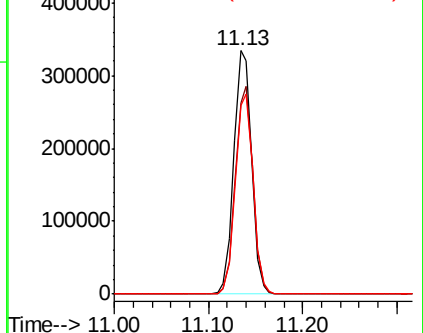
176 82.4 0.0 178.8

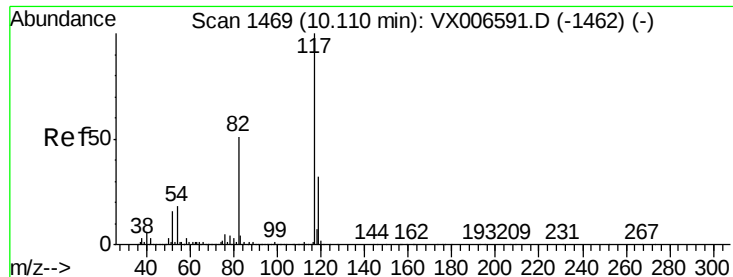


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

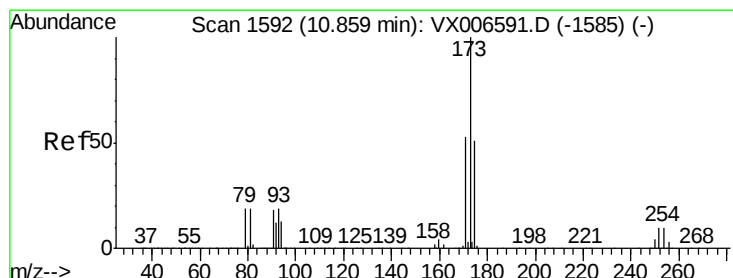
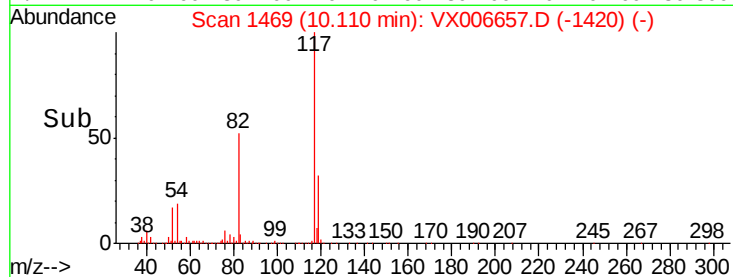
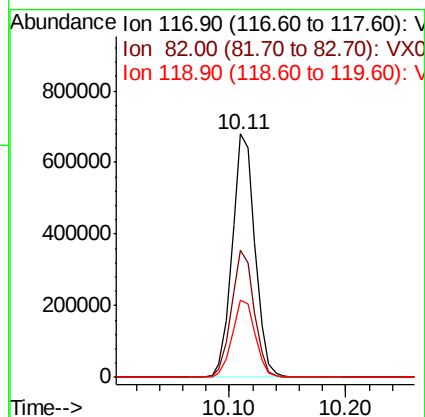
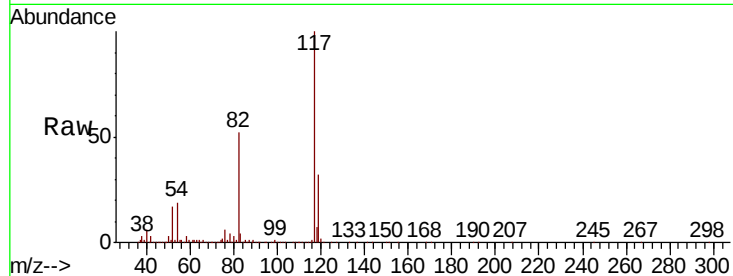




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VX006657.D
Acq: 20 Dec 2018 00:17

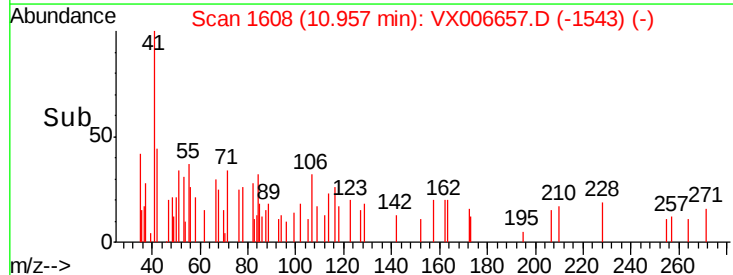
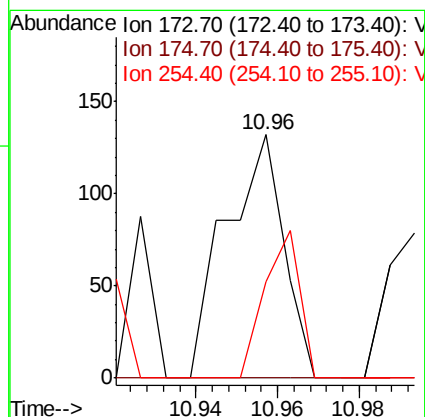
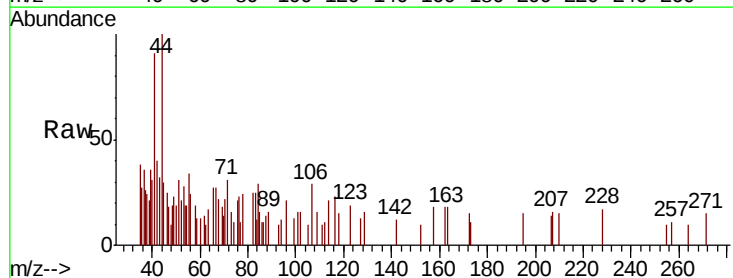
Instrument :
MSVOA_X
ClientSampleId :
966-MW-04(23)

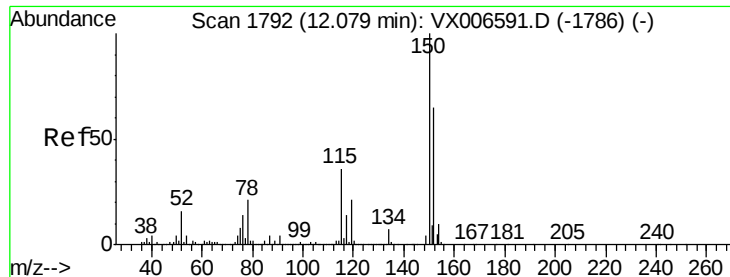
Tot Ion:117 Resp: 927070
Ion Ratio Lower Upper
117 100
82 52.4 41.0 61.6
119 31.5 25.4 38.0



#71
Bromoform
Concen: 4.482 ug/l
RT: 10.96 min Scan# 1608
Delta R.T. 0.10 min
Lab File: VX006657.D
Acq: 20 Dec 2018 00:17

Tgt Ion:173 Resp: 131
Ion Ratio Lower Upper
173 100
175 0.0 24.7 74.1#
254 36.6 0.2 0.2#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. 0.00 min

Lab File: VX006657.D

Acq: 20 Dec 2018 00:17

Instrument :

MSVOA_X

ClientSampleId :

966-MW-04(23)

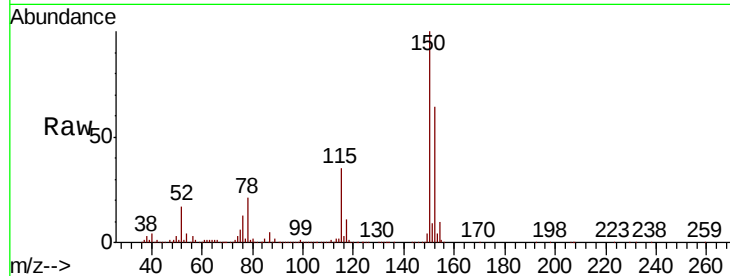
Tot Ion:152 Resp: 441826

Ion Ratio Lower Upper

152 100

115 57.2 39.1 117.2

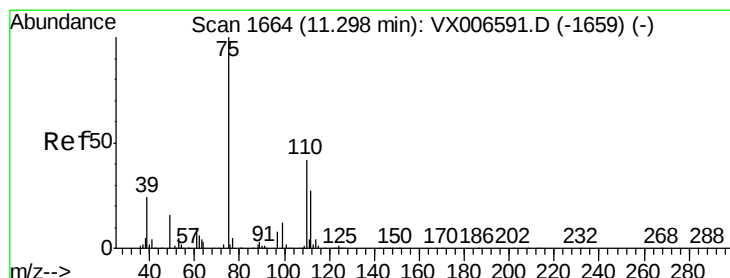
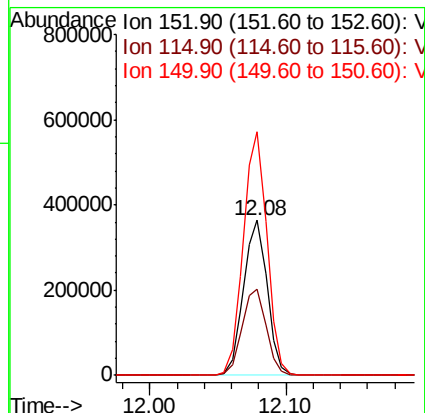
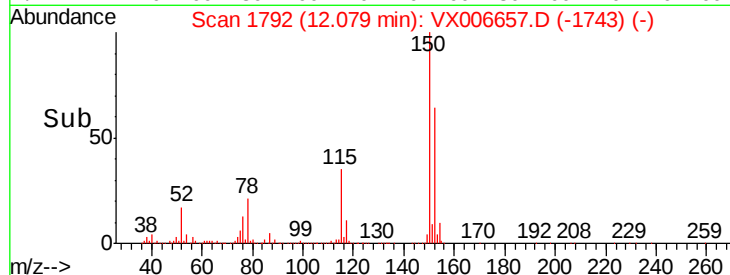
150 156.7 0.0 344.8



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: 24.421 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX006657.D

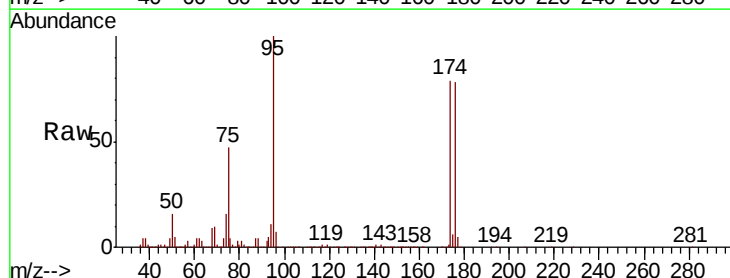
Acq: 20 Dec 2018 00:17

Tgt Ion: 75 Resp: 200521

Ion Ratio Lower Upper

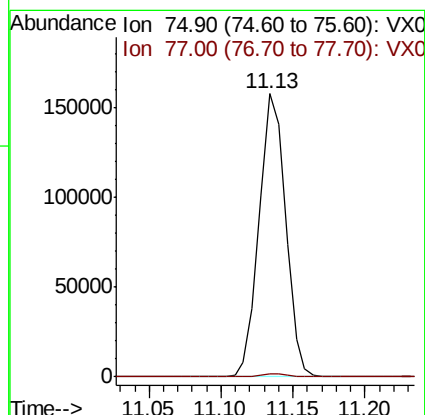
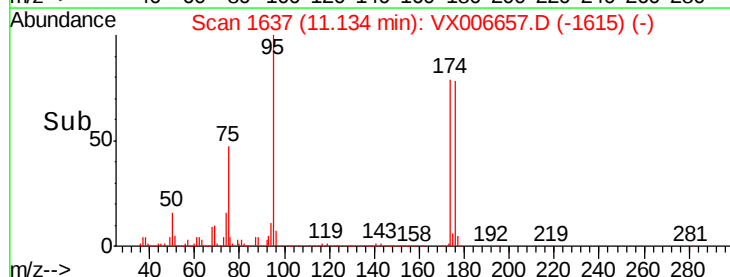
75 100

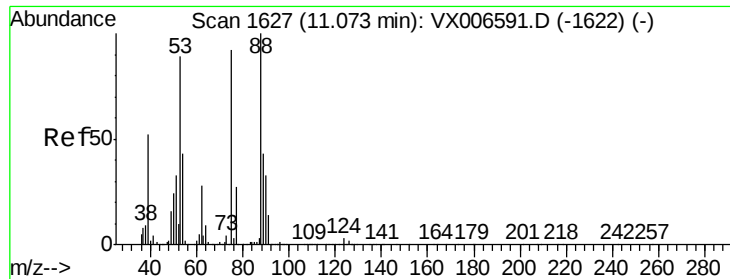
77 1.2 18.5 55.5#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

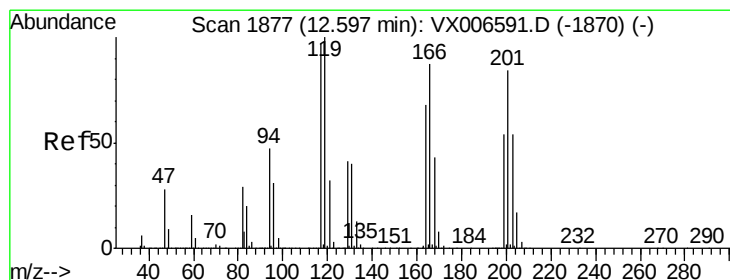
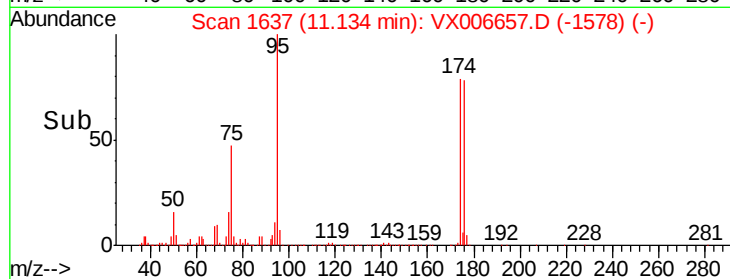
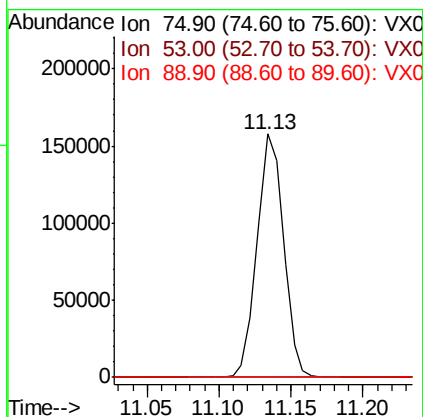
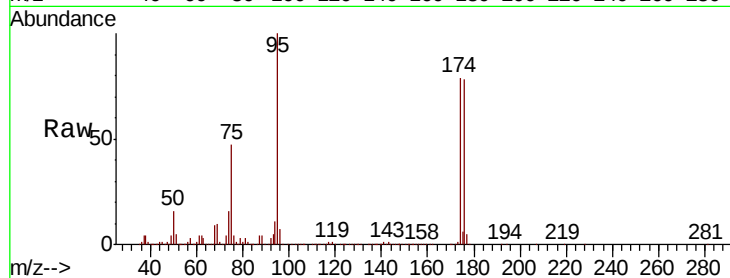




#81
trans-1,4-Dichloro-2-butene
Concen: 72.262 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. 0.06 min
Lab File: VX006657.D
Acq: 20 Dec 2018 00:17

Instrument :
MSVOA_X
ClientSampleId :
966-MW-04(23)

Tot Ion: 75 Resp: 200521
Ion Ratio Lower Upper
75 100
53 0.2 79.7 119.5#
89 0.0 38.0 57.0#



#90
Hexachloroethane
Concen: 3.306 ug/l
RT: 12.56 min Scan# 1871
Delta R.T. -0.04 min
Lab File: VX006657.D
Acq: 20 Dec 2018 00:17

Tgt Ion: 117 Resp: 57
Ion Ratio Lower Upper
117 100
201 87.7 42.9 128.7

