

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX122018\
 Data File : VX006678.D
 Acq On : 20 Dec 2018 16:14
 Operator : JC/MD
 Sample : J6484-12
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 972-MW-16(22.5)

Quant Time: Dec 21 03:32:16 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	639564	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	1000109	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	930145	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	439539	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	349316	50.68	ug/l	0.00
Spiked Amount			Recovery	=	101.36%	
35) Dibromofluoromethane	5.51	113	297186	46.99	ug/l	0.00
Spiked Amount			Recovery	=	93.98%	
50) Toluene-d8	8.71	98	1196293	50.17	ug/l	0.00
Spiked Amount			Recovery	=	100.34%	
62) 4-Bromofluorobenzene	11.13	95	428505	49.07	ug/l	0.00
Spiked Amount			Recovery	=	98.14%	

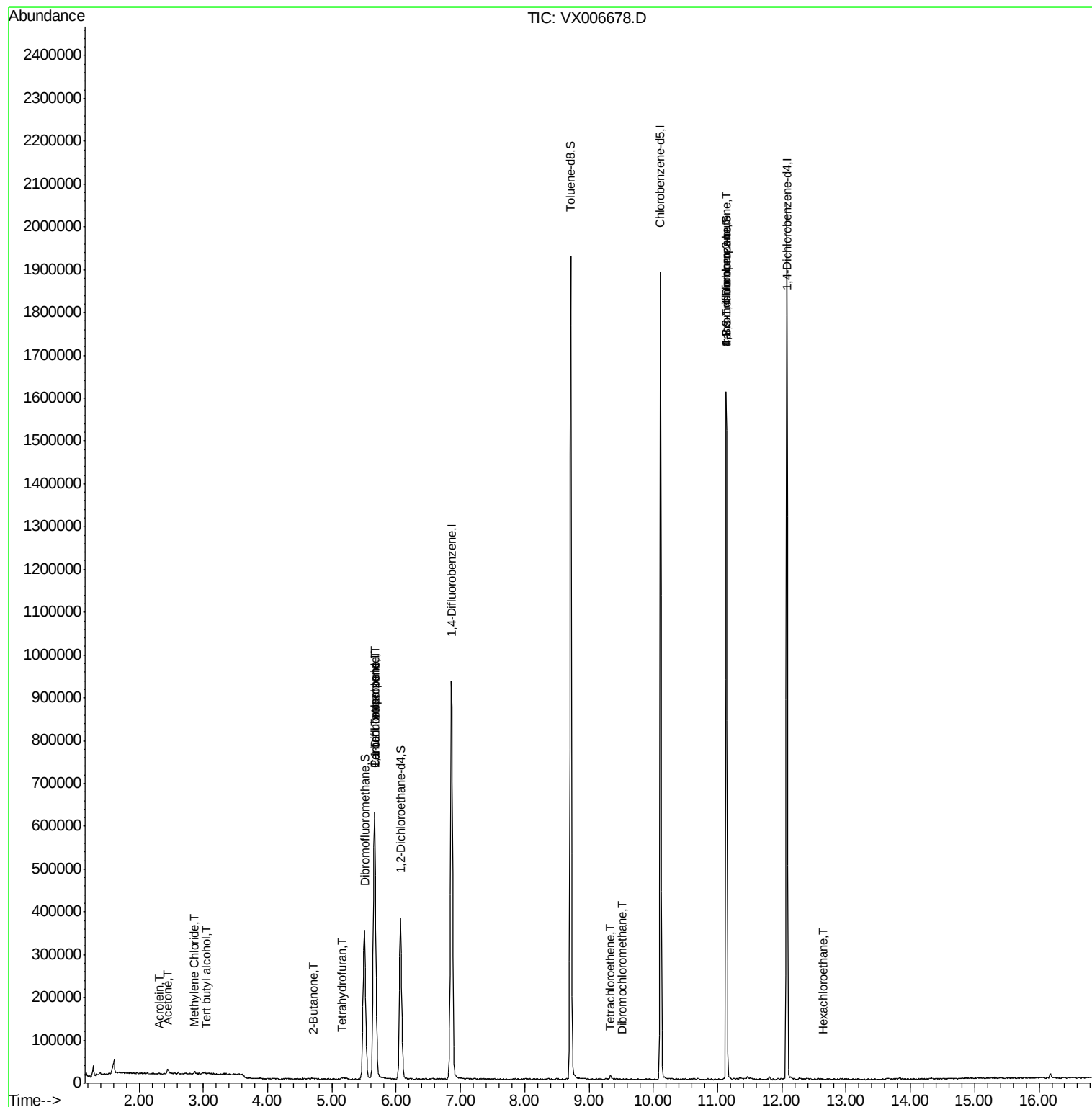
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.65	94	793	Below Cal	#	72
11) Tert butyl alcohol	3.06	59	2377	1.545	ug/l #	79
13) Acrolein	2.32	56	441	0.425	ug/l #	77
16) Acetone	2.45	43	12906	4.075	ug/l	94
20) Methylene Chloride	2.86	84	2125	0.325	ug/l #	71
25) 2-Butanone	4.71	43	2513	0.564	ug/l	98
28) Bromochloromethane	5.01	49	185	Below Cal	#	20
29) Tetrahydrofuran	5.16	42	1704	0.581	ug/l #	77
36) 1,1-Dichloropropene	5.66	75	43623	5.266	ug/l #	49
38) Carbon Tetrachloride	5.66	117	61351	7.621	ug/l #	13
49) 1,4-Dioxane	7.76	88	173	Below Cal	#	79
60) Dibromochloromethane	9.52	129	198	2.351	ug/l #	10
64) Tetrachloroethene	9.34	164	1629	0.221	ug/l	87
76) 1,2,3-Trichloropropane	11.13	75	197818	24.217	ug/l #	40
81) trans-1,4-Dichloro-2-buten	11.13	75	197818	71.694	ug/l #	10
90) Hexachloroethane	12.63	117	119	3.320	ug/l	54

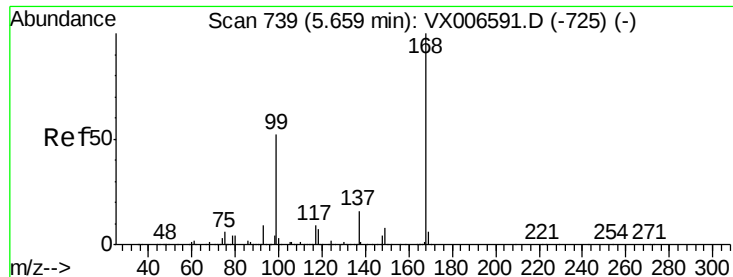
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Dec 19 15:20:58 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.01 min

Lab File: VX006678.D

Acq: 20 Dec 2018 16:14

Instrument :

MSVOA_X

ClientSampleId :

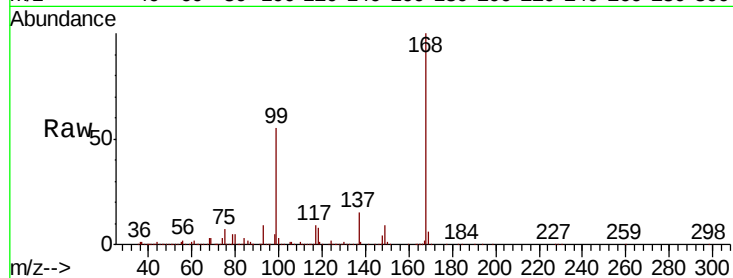
972-MW-16(22.5)

Tot Ion:168 Resp: 639564

Ion Ratio Lower Upper

168 100

99 54.5 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

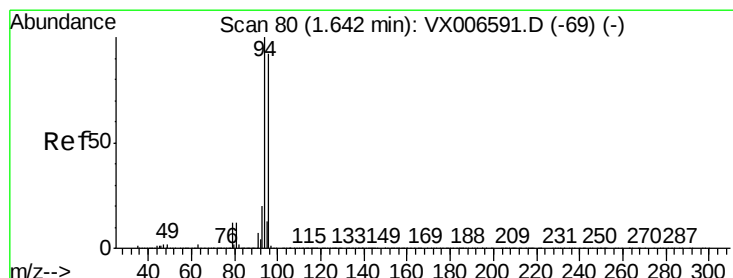
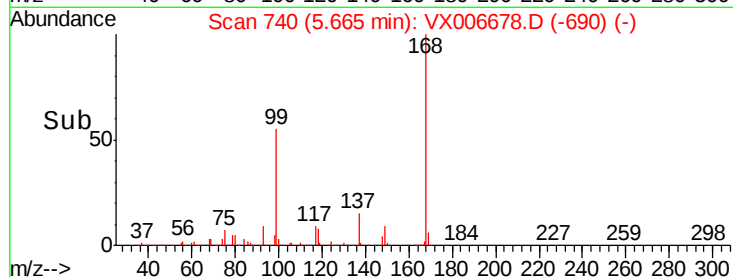
150000

100000

50000

0

Time--> 5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX006678.D

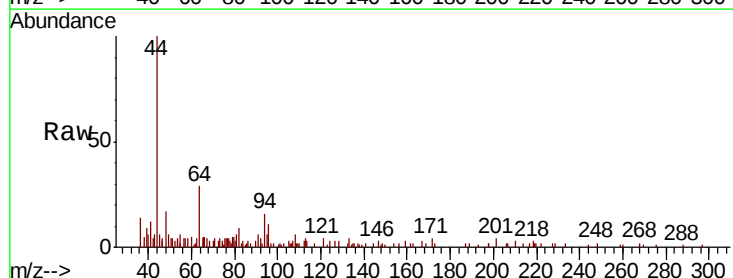
Acq: 20 Dec 2018 16:14

Tgt Ion: 94 Resp: 793

Ion Ratio Lower Upper

94 100

96 65.1 73.4 110.2#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

800

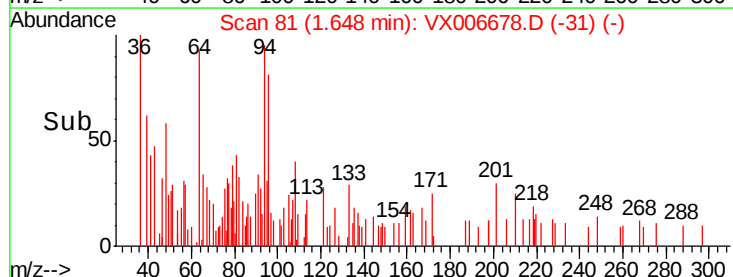
600

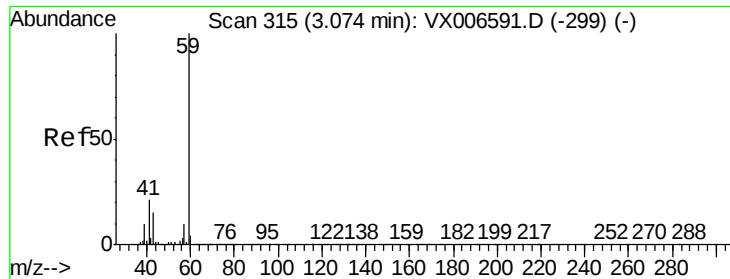
400

200

0

Time--> 1.62 1.64 1.66 1.68 1.70



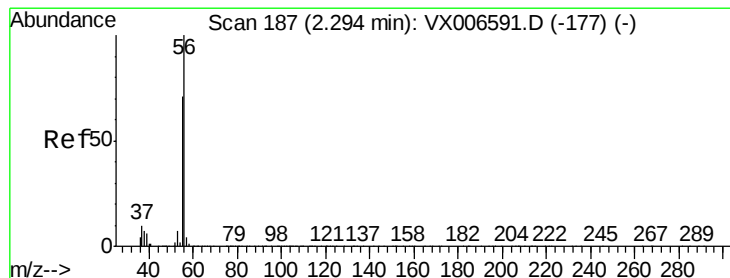
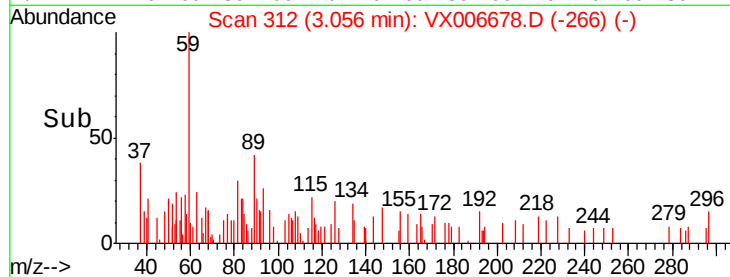
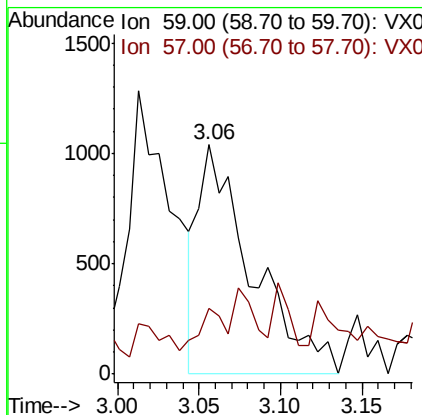
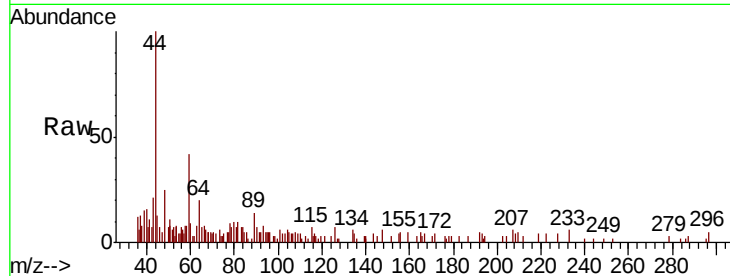


#11

Tert butyl alcohol
 Concen: 1.545 ug/l
 RT: 3.06 min Scan# 312
 Delta R.T. -0.02 min
 Lab File: VX006678.D
 Acq: 20 Dec 2018 16:14

Instrument :
 MSVOA_X
 ClientSampleId :
 972-MW-16(22.5)

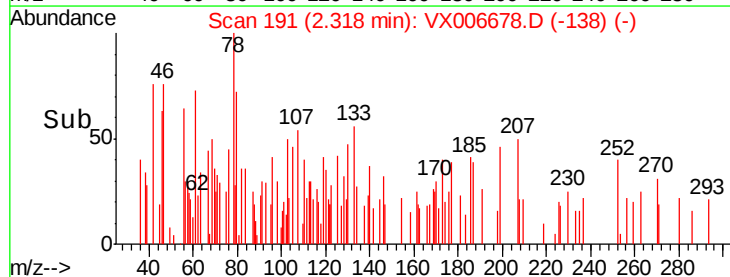
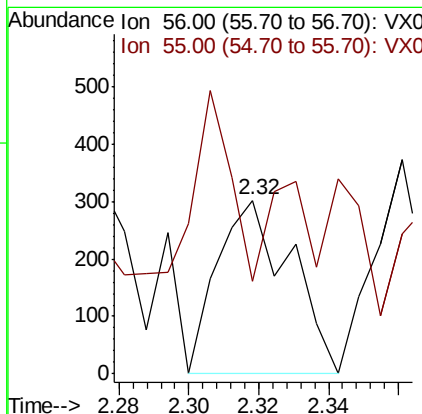
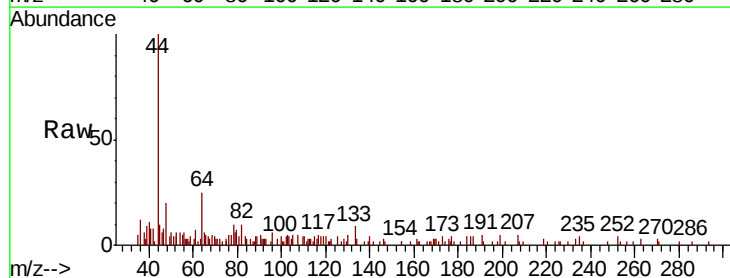
Tot Ion: 59 Resp: 2377
 Ion Ratio Lower Upper
 59 100
 57 18.4 8.5 12.7#

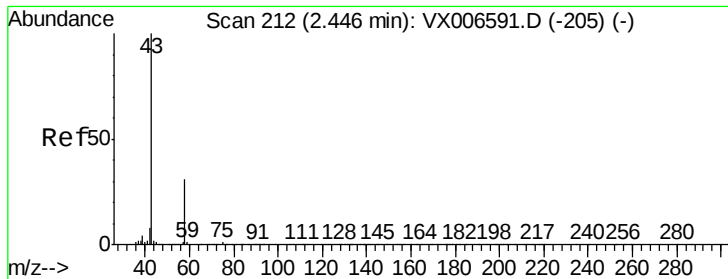


#13

Acrolein
 Concen: 0.425 ug/l
 RT: 2.32 min Scan# 191
 Delta R.T. 0.02 min
 Lab File: VX006678.D
 Acq: 20 Dec 2018 16:14

Tgt Ion: 56 Resp: 441
 Ion Ratio Lower Upper
 56 100
 55 53.5 58.2 87.4#

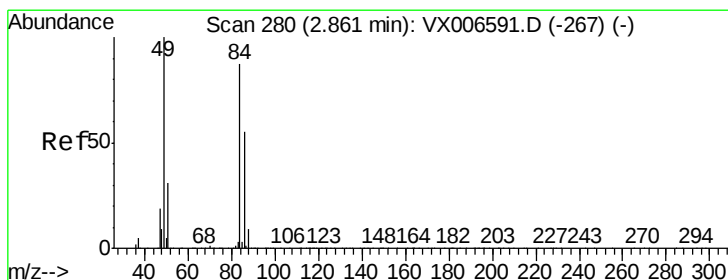
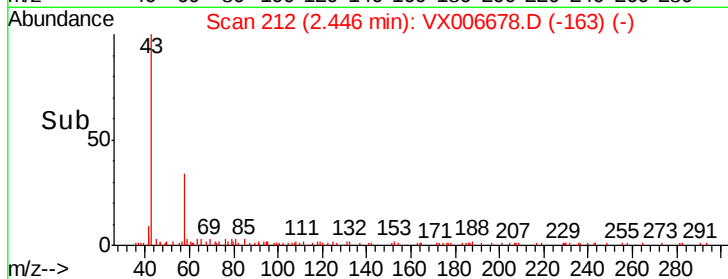
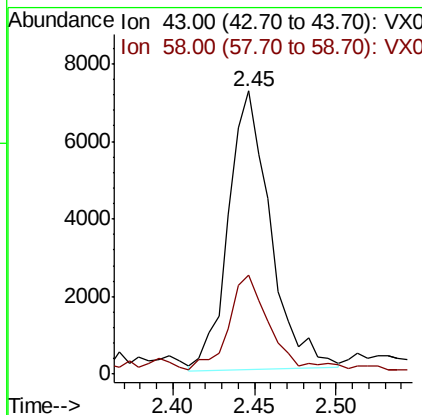
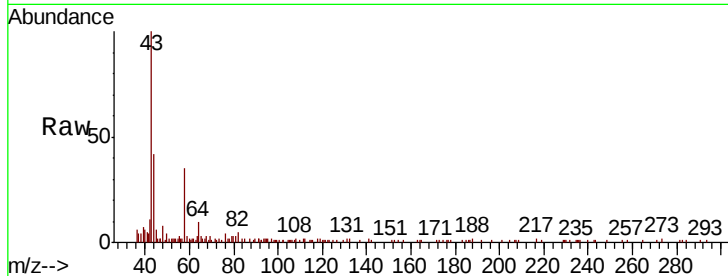




#16
Acetone
Concen: 4.075 ug/l
RT: 2.45 min Scan# 212
Delta R.T. -0.00 min
Lab File: VX006678.D
Acq: 20 Dec 2018 16:14

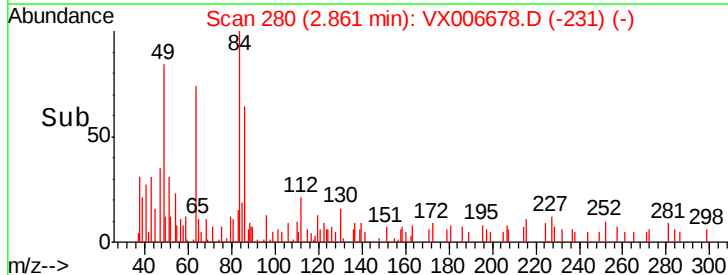
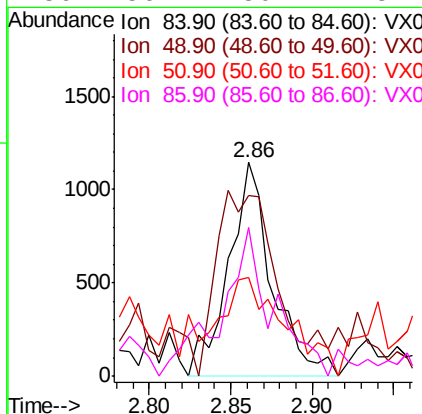
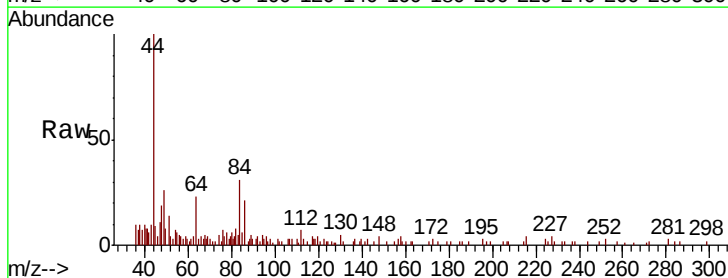
Instrument :
MSVOA_X
ClientSampleId :
972-MW-16(22.5)

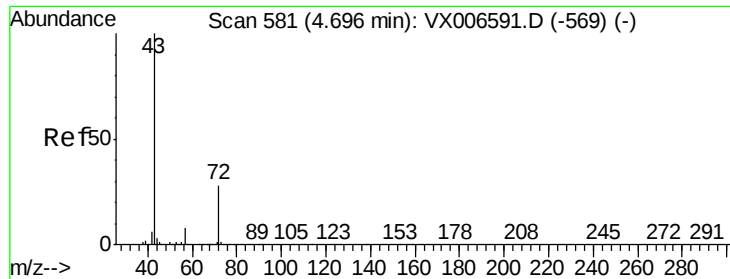
Tot Ion: 43 Resp: 12906
Ion Ratio Lower Upper
43 100
58 34.7 25.0 37.6



#20
Methylene Chloride
Concen: 0.325 ug/l
RT: 2.86 min Scan# 280
Delta R.T. -0.00 min
Lab File: VX006678.D
Acq: 20 Dec 2018 16:14

Tgt Ion: 84 Resp: 2125
Ion Ratio Lower Upper
84 100
49 66.3 91.8 137.6#
51 46.3 28.5 42.7#
86 56.7 50.2 75.2





#25

2-Butanone

Concen: 0.564 ug/l

RT: 4.71 min Scan# 583

Delta R.T. 0.01 min

Lab File: VX006678.D

Acq: 20 Dec 2018 16:14

Instrument :

MSVOA_X

ClientSampleId :

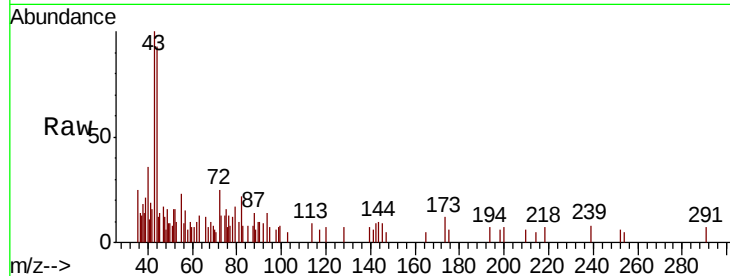
972-MW-16(22.5)

Tot Ion: 43 Resp: 2513

Ion Ratio Lower Upper

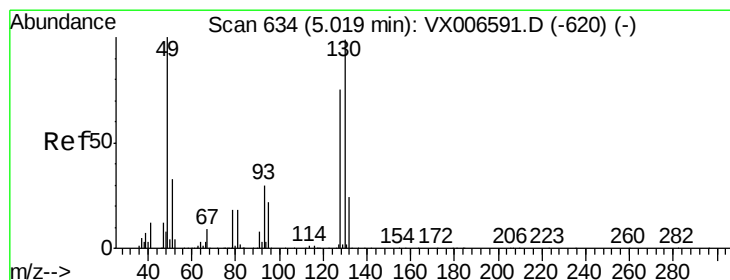
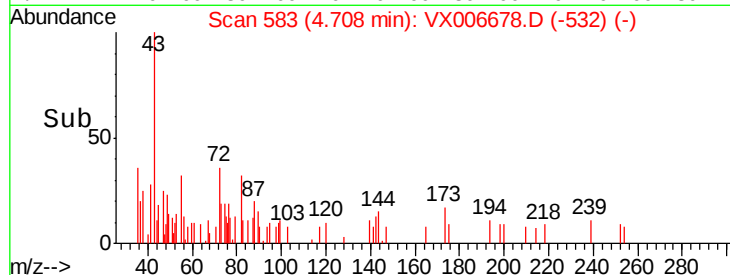
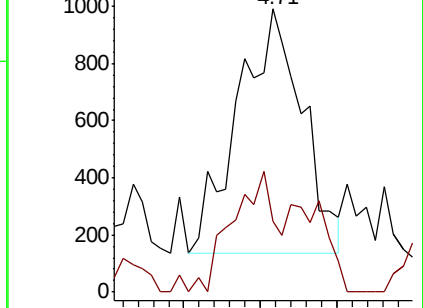
43 100

72 29.1 22.4 33.6



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



#28

Bromochloromethane

Concen: Below Cal

RT: 5.01 min Scan# 632

Delta R.T. -0.01 min

Lab File: VX006678.D

Acq: 20 Dec 2018 16:14

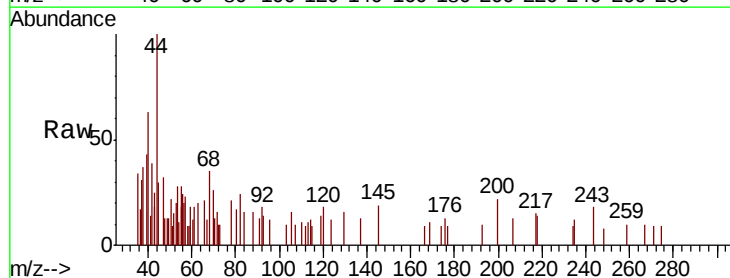
Tgt Ion: 49 Resp: 185

Ion Ratio Lower Upper

49 100

129 31.4 0.0 5.4#

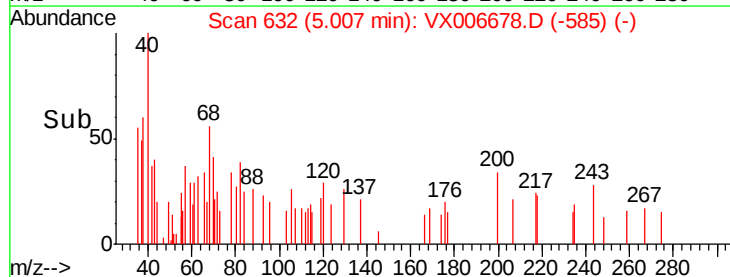
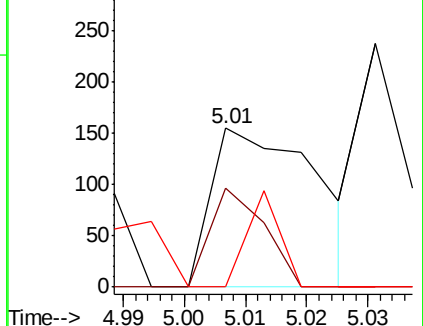
130 18.4 77.7 116.5#

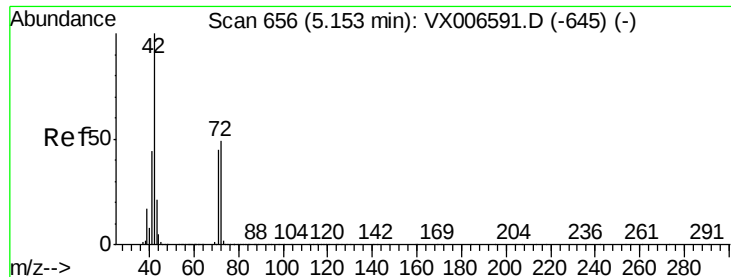


Abundance Ion 48.90 (48.60 to 49.60): VX0

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V





#29

Tetrahydrofuran

Concen: 0.581 ug/l

RT: 5.16 min Scan# 657

Delta R.T. 0.01 min

Lab File: VX006678.D

Acq: 20 Dec 2018 16:14

Instrument :

MSVOA_X

ClientSampleId :

972-MW-16(22.5)

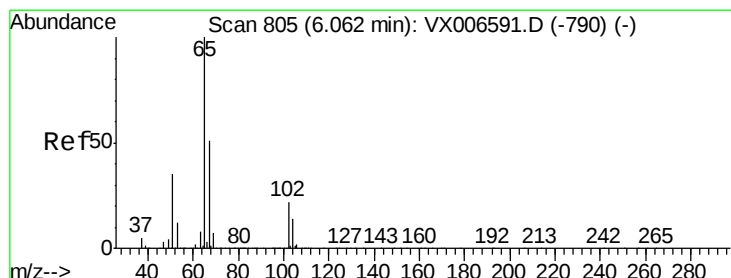
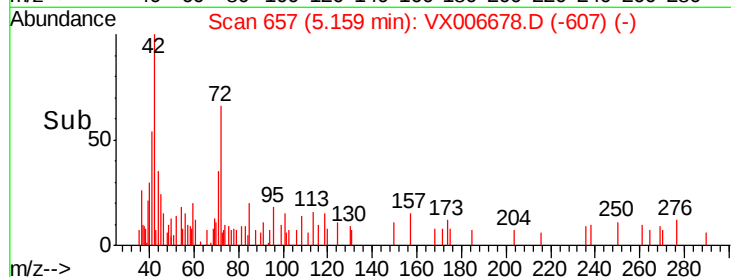
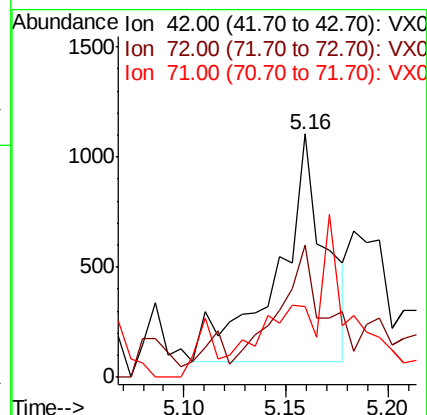
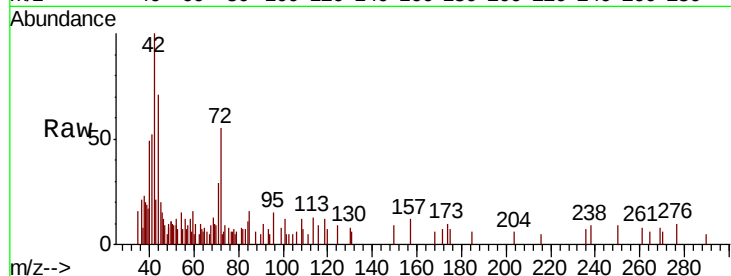
Tot Ion: 42 Resp: 1704

Ion Ratio Lower Upper

42 100

72 47.8 38.9 58.3

71 75.2 36.2 54.4#



#33

1,2-Dichloroethane-d4

Concen: 50.677 ug/l

RT: 6.07 min Scan# 806

Delta R.T. 0.01 min

Lab File: VX006678.D

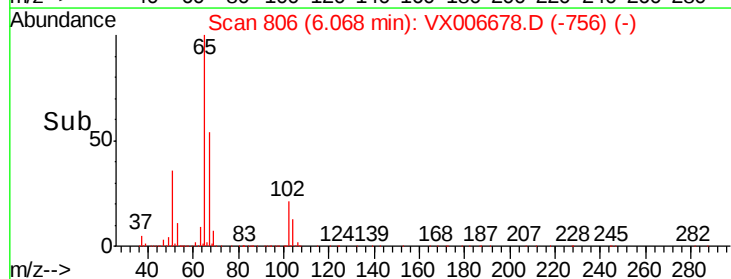
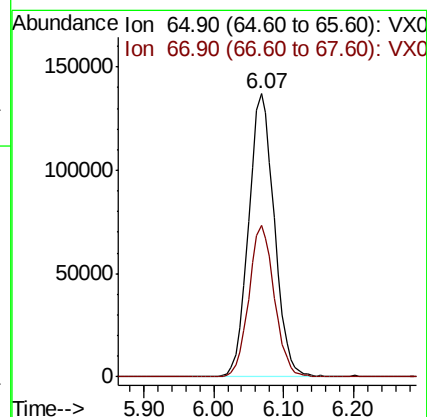
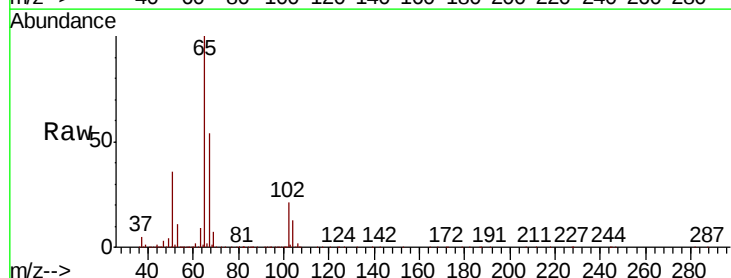
Acq: 20 Dec 2018 16:14

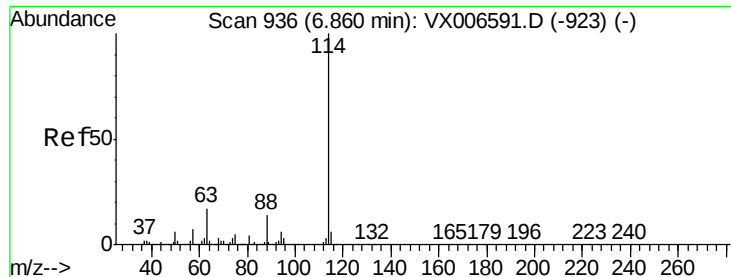
Tgt Ion: 65 Resp: 349316

Ion Ratio Lower Upper

65 100

67 53.1 0.0 105.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. -0.00 min

Lab File: VX006678.D

Acq: 20 Dec 2018 16:14

Instrument :

MSVOA_X

ClientSampleId :

972-MW-16(22.5)

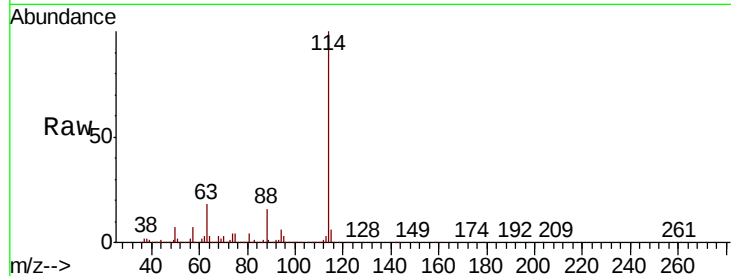
Tot Ion:114 Resp: 1000109

Ion Ratio Lower Upper

114 100

63 18.4 0.0 34.8

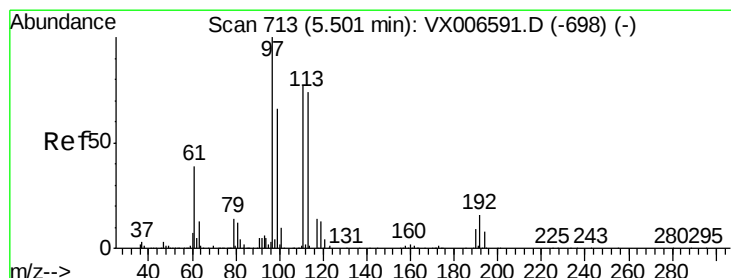
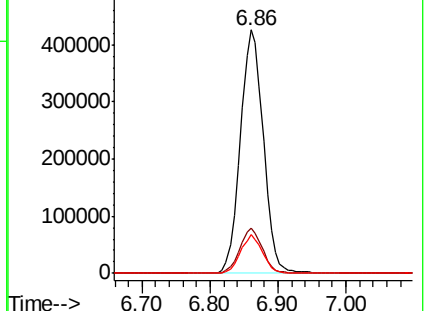
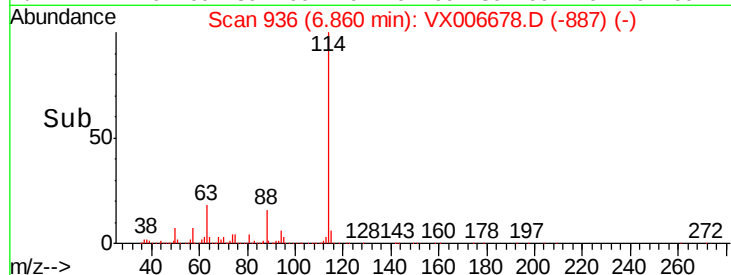
88 15.8 0.0 28.8



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: 46.990 ug/l

RT: 5.51 min Scan# 714

Delta R.T. 0.01 min

Lab File: VX006678.D

Acq: 20 Dec 2018 16:14

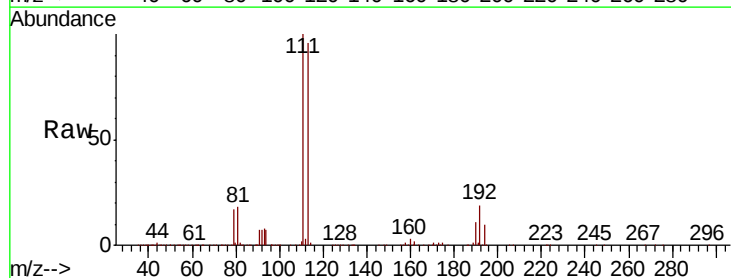
Tgt Ion:113 Resp: 297186

Ion Ratio Lower Upper

113 100

111 101.4 81.6 122.4

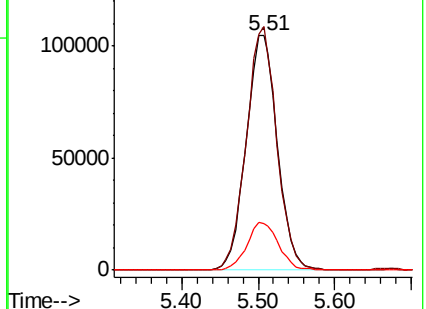
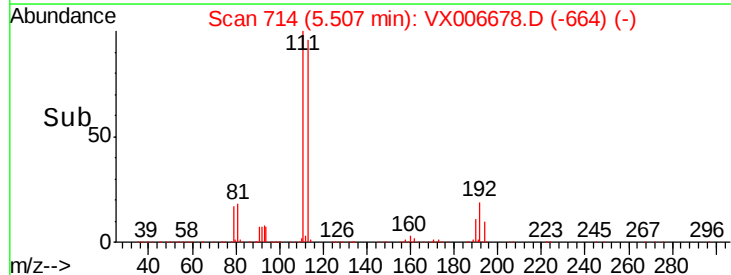
192 20.6 16.7 25.1

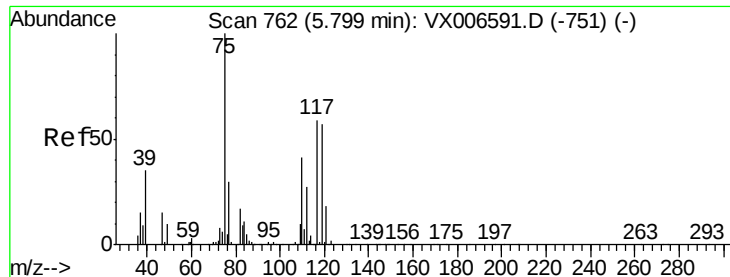


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

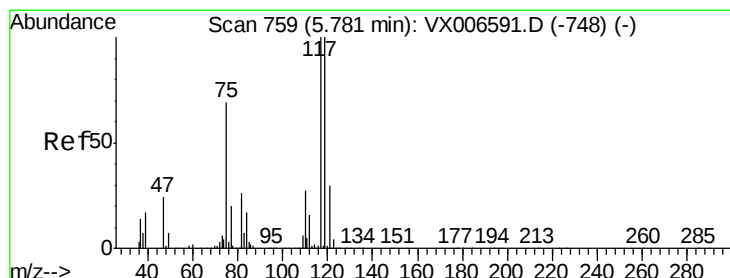
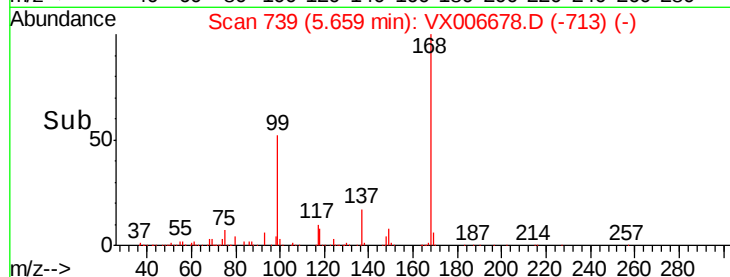
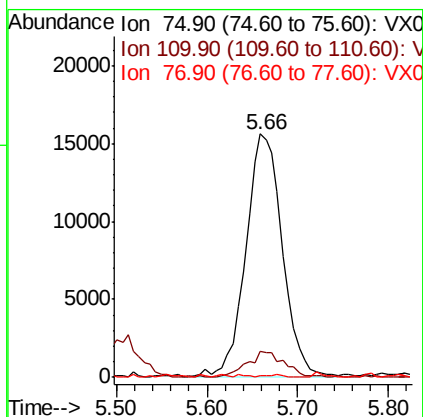
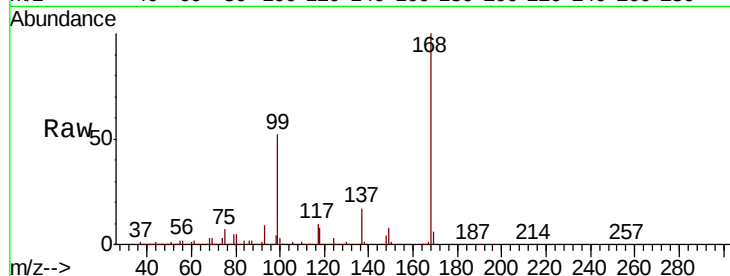




#36
 1,1-Dichloropropene
 Concen: 5.266 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.14 min
 Lab File: VX006678.D
 Acq: 20 Dec 2018 16:14

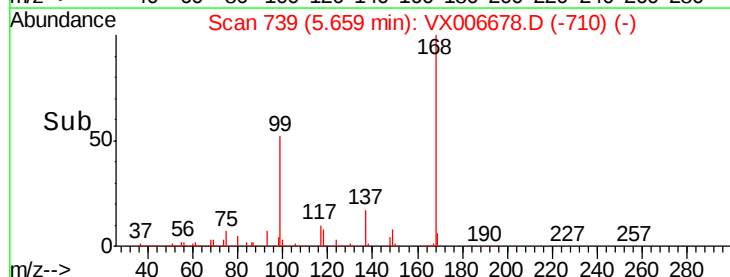
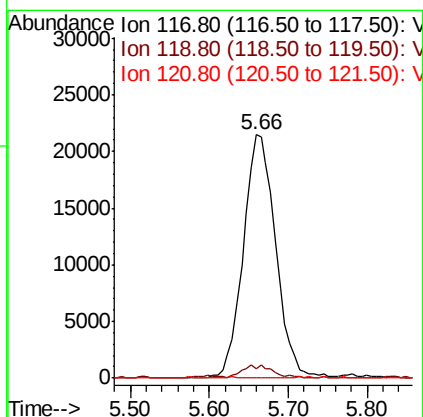
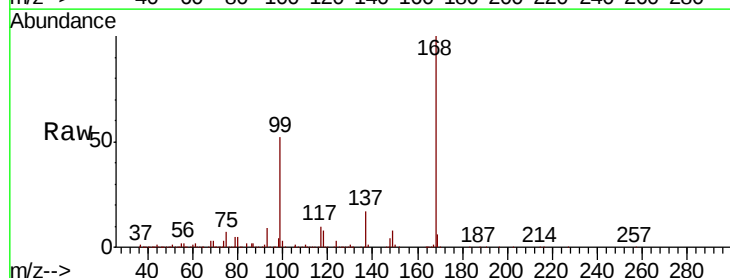
Instrument :
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 972-MW-16(22.5)

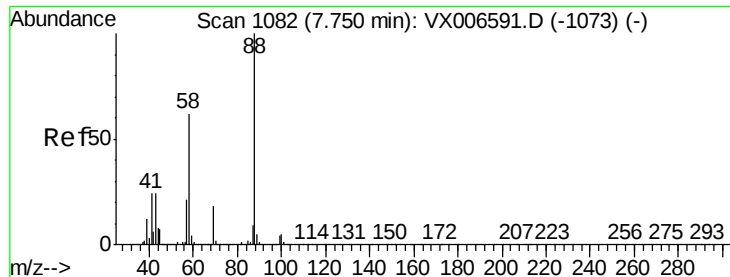
Tot Ion	Ratio	Lower	Upper
75	100		
110	11.2	20.2	60.5#
77	0.5	24.8	37.2#



#38
 Carbon Tetrachloride
 Concen: 7.621 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.12 min
 Lab File: VX006678.D
 Acq: 20 Dec 2018 16:14

Tgt Ion	Ratio	Lower	Upper
117	100		
119	3.7	79.4	119.2#
121	0.0	24.0	36.0#





#49

1,4-Dioxane

Concen: Below Cal

RT: 7.76 min Scan# 1084

Delta R.T. 0.01 min

Lab File: VX006678.D

Acq: 20 Dec 2018 16:14

Instrument :

MSVOA_X

ClientSampleId :

972-MW-16(22.5)

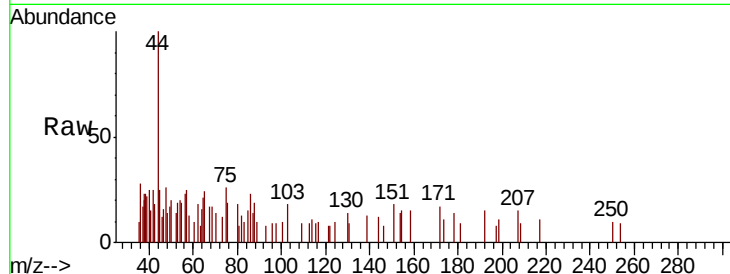
Tot Ion: 88 Resp: 173

Ion Ratio Lower Upper

88 100

43 0.0 22.2 33.4#

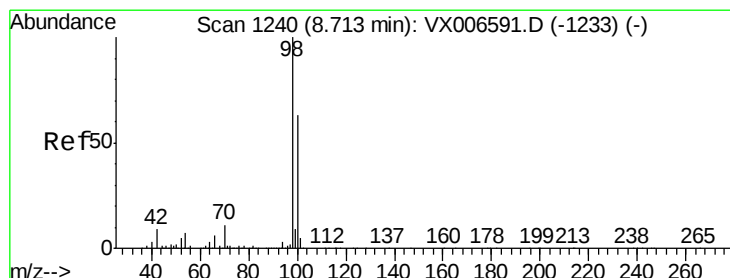
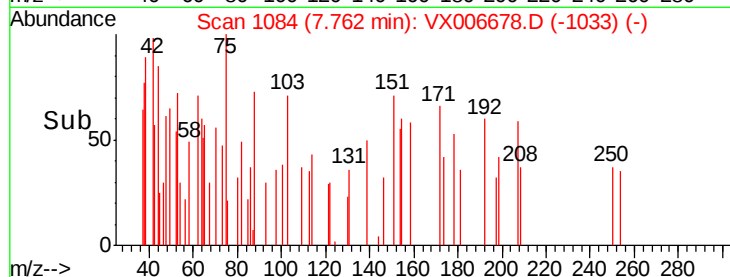
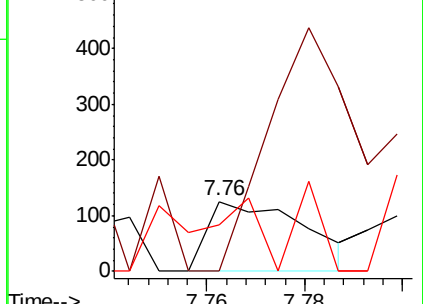
58 57.8 51.0 76.4



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: 50.173 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX006678.D

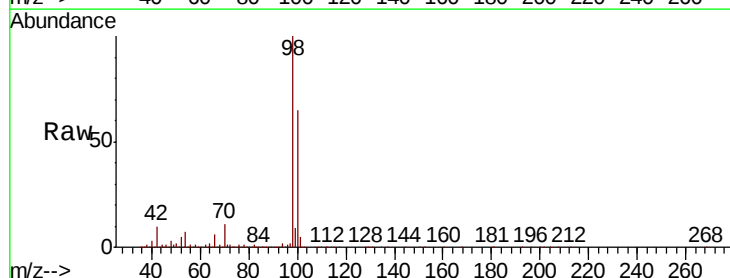
Acq: 20 Dec 2018 16:14

Tgt Ion: 98 Resp: 1196293

Ion Ratio Lower Upper

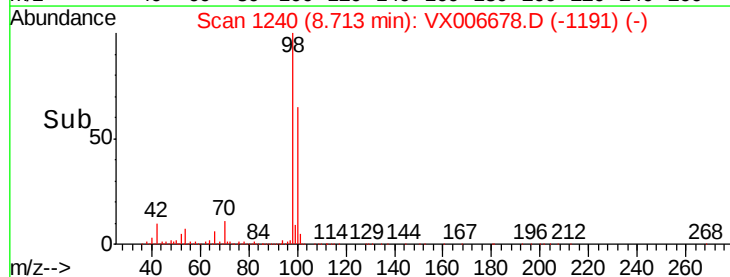
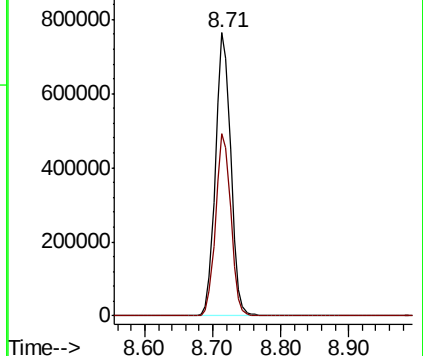
98 100

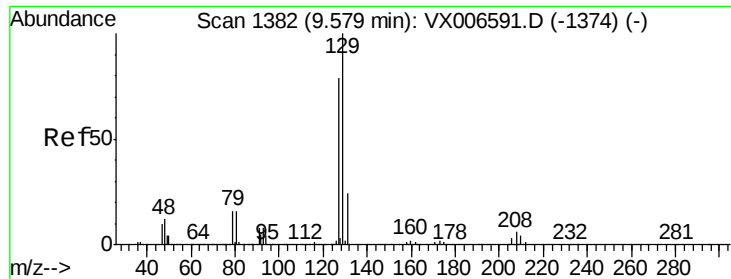
100 64.2 52.0 78.0



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V





#60

Dibromochloromethane

Concen: 2.351 ug/l

RT: 9.52 min Scan# 1372

Delta R.T. -0.06 min

Lab File: VX006678.D

Acq: 20 Dec 2018 16:14

Instrument :

MSVOA_X

ClientSampleId :

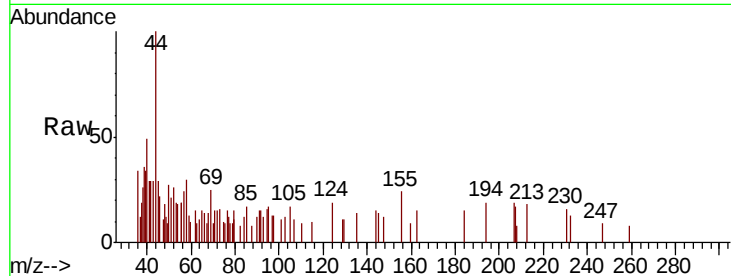
972-MW-16(22.5)

Tot Ion:129 Resp: 198

Ion Ratio Lower Upper

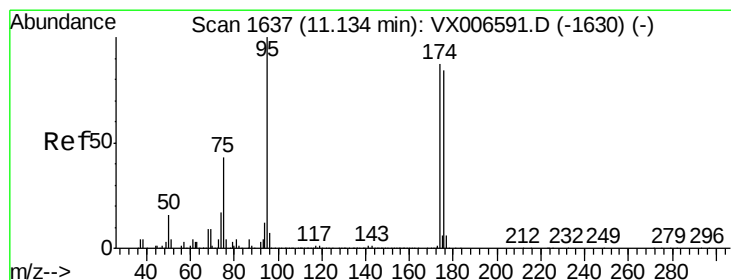
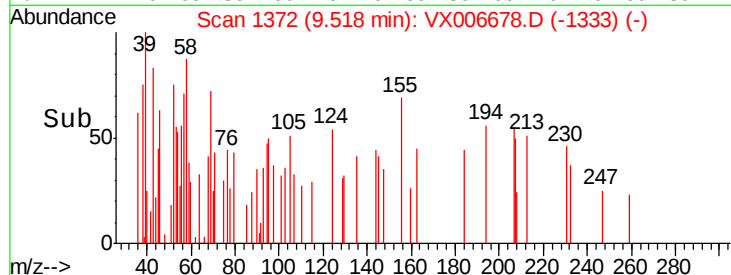
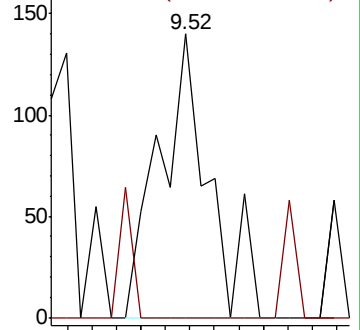
129 100

127 0.0 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: 49.070 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX006678.D

Acq: 20 Dec 2018 16:14

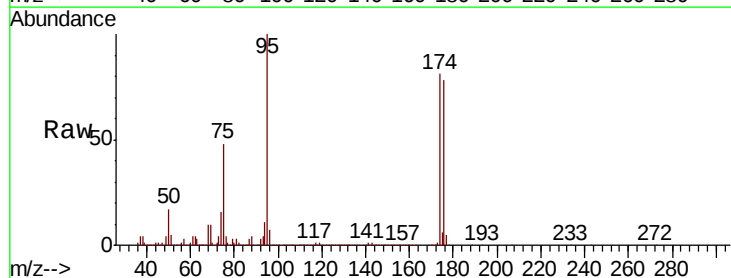
Tgt Ion: 95 Resp: 428505

Ion Ratio Lower Upper

95 100

174 85.9 0.0 182.2

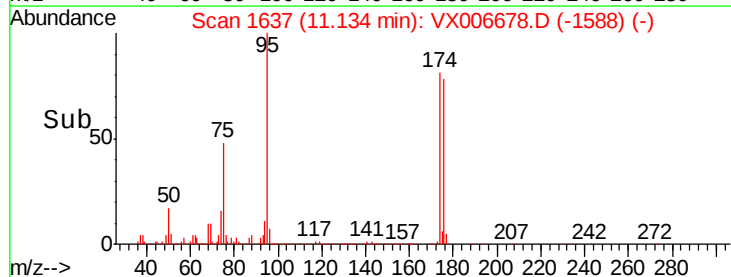
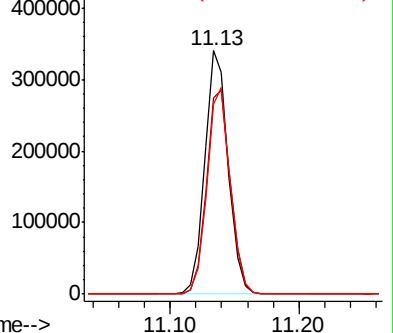
176 84.4 0.0 178.8

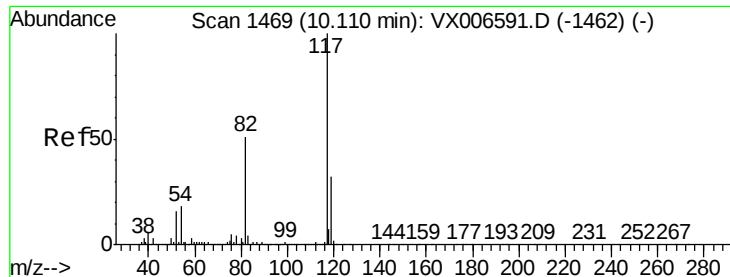


Abundance Ion 94.90 (94.60 to 95.60): VX0

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: 10.12 min Scan# 1470

Delta R.T. 0.01 min

Lab File: VX006678.D

Acq: 20 Dec 2018 16:14

Instrument :

MSVOA_X

ClientSampleId :

972-MW-16(22.5)

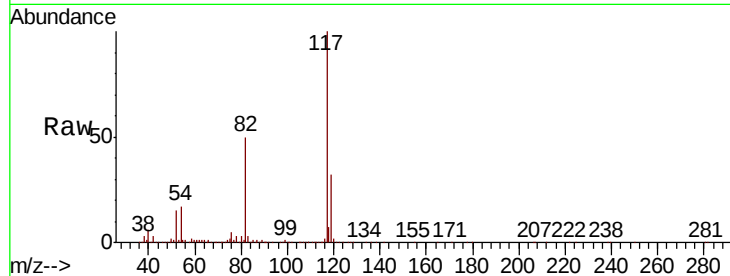
Tot Ion:117 Resp: 930145

Ion Ratio Lower Upper

117 100

82 50.2 41.0 61.6

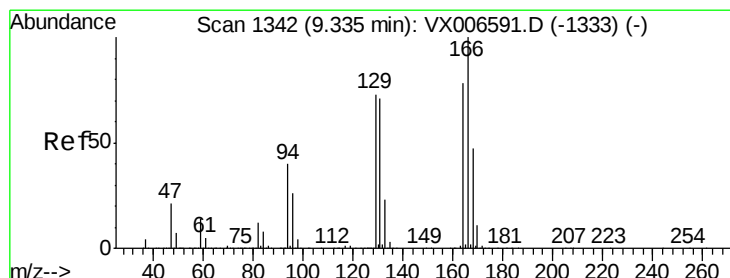
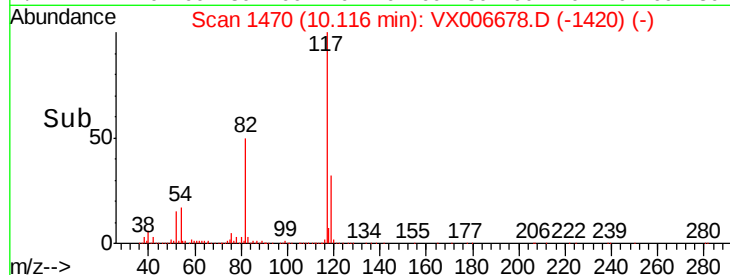
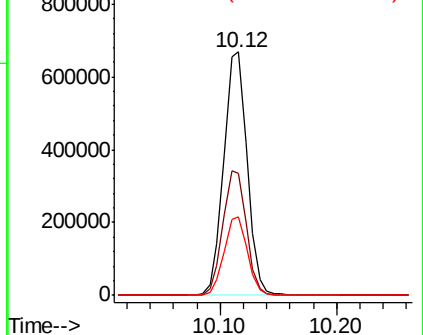
119 32.3 25.4 38.0



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: 0.221 ug/l

RT: 9.34 min Scan# 1342

Delta R.T. -0.00 min

Lab File: VX006678.D

Acq: 20 Dec 2018 16:14

Tgt Ion:164 Resp: 1629

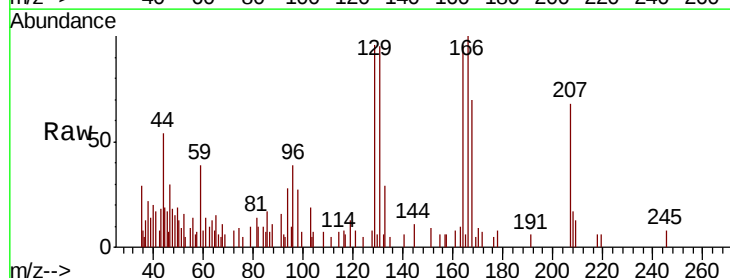
Ion Ratio Lower Upper

164 100

166 103.7 102.5 153.7

129 99.2 75.1 112.7

131 99.0 72.7 109.1

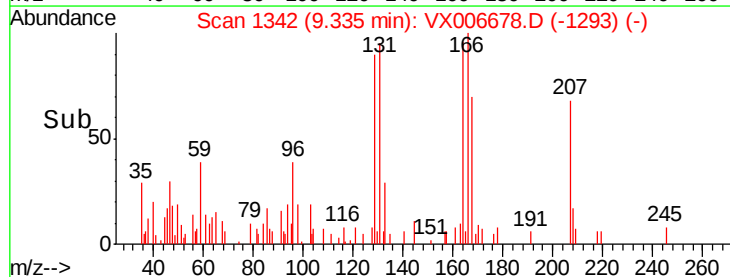
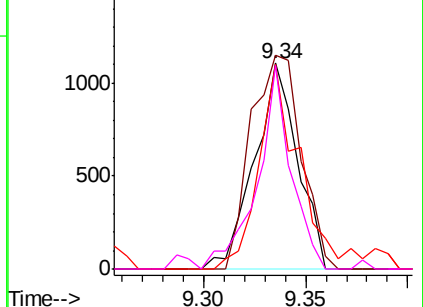


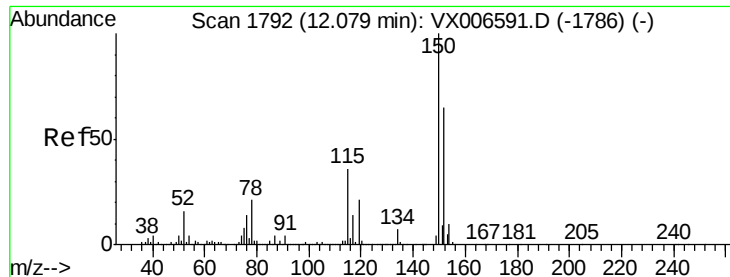
Abundance Ion 163.80 (163.50 to 164.50): V

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





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX006678.D

Acq: 20 Dec 2018 16:14

Instrument :

MSVOA_X

ClientSampleId :

972-MW-16(22.5)

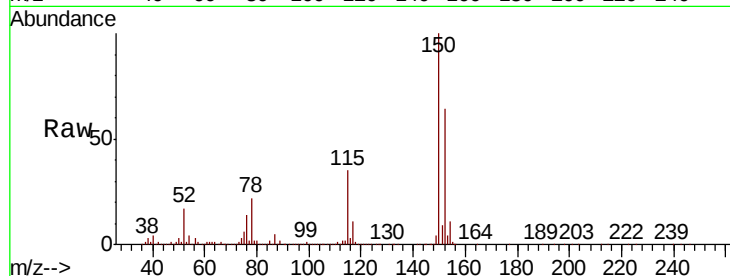
Tot Ion:152 Resp: 439539

Ion Ratio Lower Upper

152 100

115 56.6 39.1 117.2

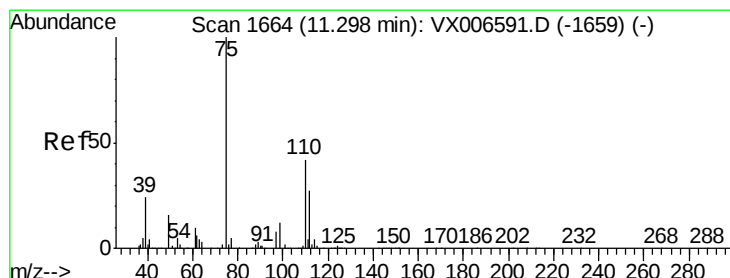
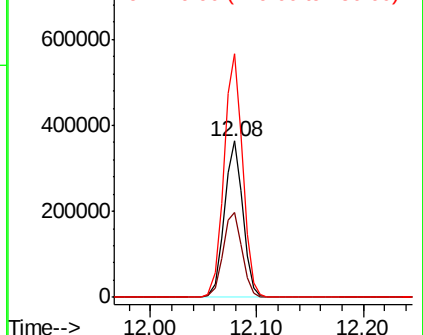
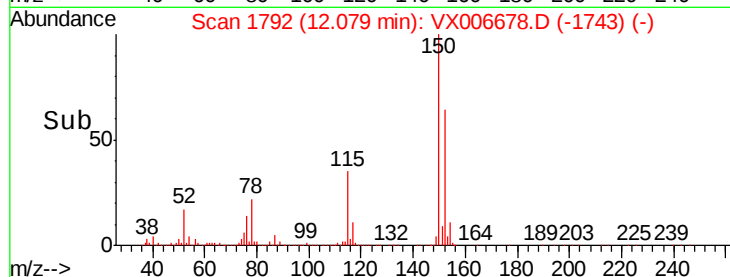
150 157.6 0.0 344.8



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: 24.217 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX006678.D

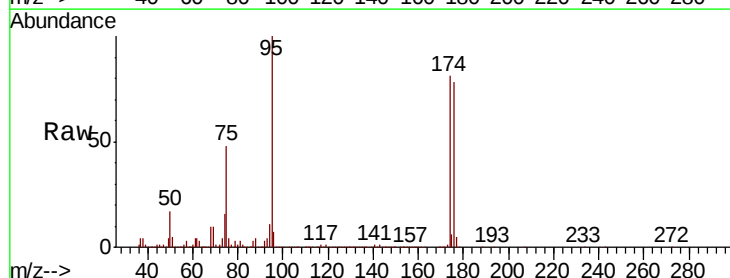
Acq: 20 Dec 2018 16:14

Tgt Ion: 75 Resp: 197818

Ion Ratio Lower Upper

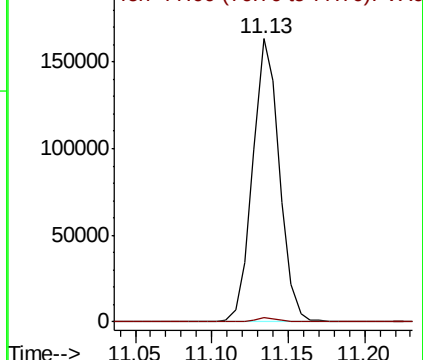
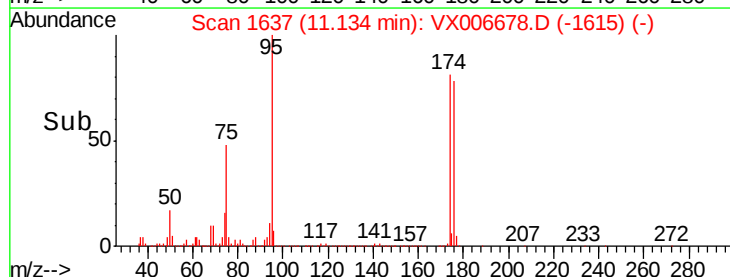
75 100

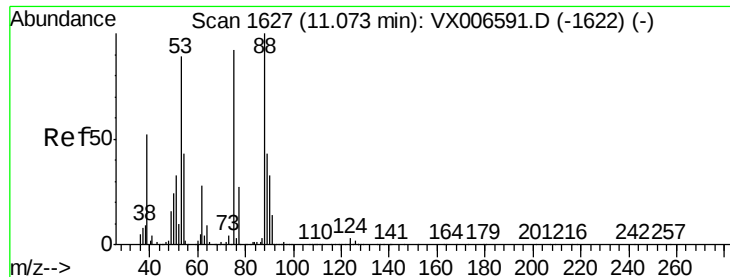
77 1.4 18.5 55.5#



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: 71.694 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX006678.D

Acq: 20 Dec 2018 16:14

Instrument :

MSVOA_X

ClientSampleId :

972-MW-16(22.5)

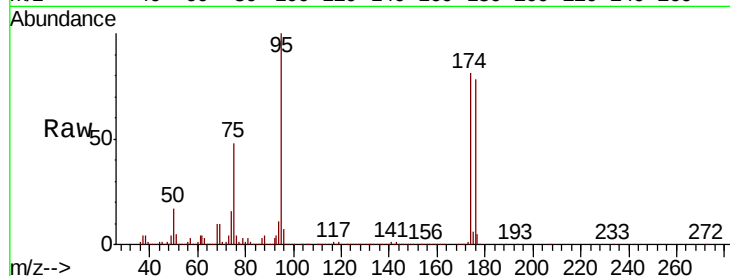
Tot Ion: 75 Resp: 197818

Ion Ratio Lower Upper

75 100

53 0.2 79.7 119.5#

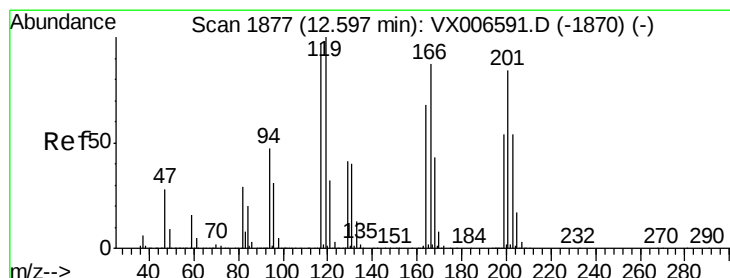
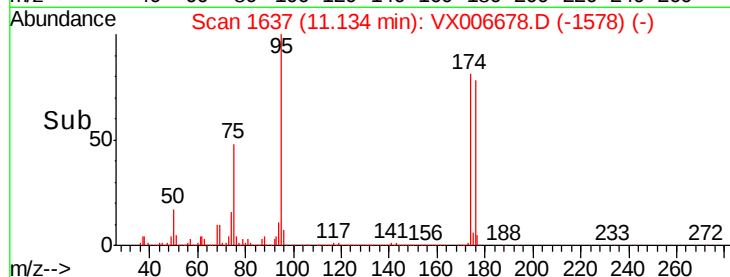
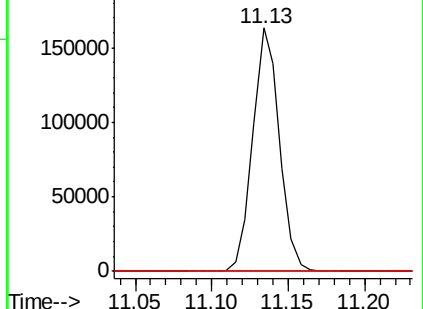
89 0.1 38.0 57.0#



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



#90

Hexachloroethane

Concen: 3.320 ug/l

RT: 12.63 min Scan# 1883

Delta R.T. 0.04 min

Lab File: VX006678.D

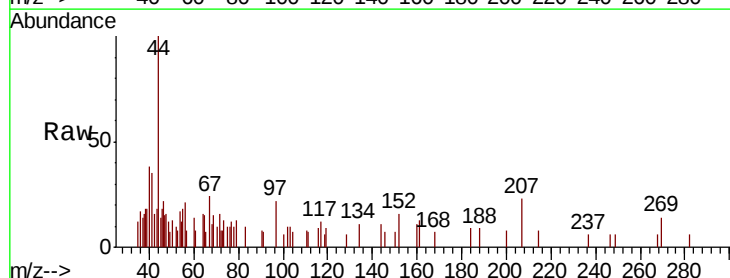
Acq: 20 Dec 2018 16:14

Tgt Ion: 117 Resp: 119

Ion Ratio Lower Upper

117 100

201 43.7 42.9 128.7



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V

