

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX122018\
 Data File : VX006685.D
 Acq On : 20 Dec 2018 19:21
 Operator : JC/MD
 Sample : J6484-03
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 965-MW-03A(17)

Quant Time: Dec 21 03:34:21 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

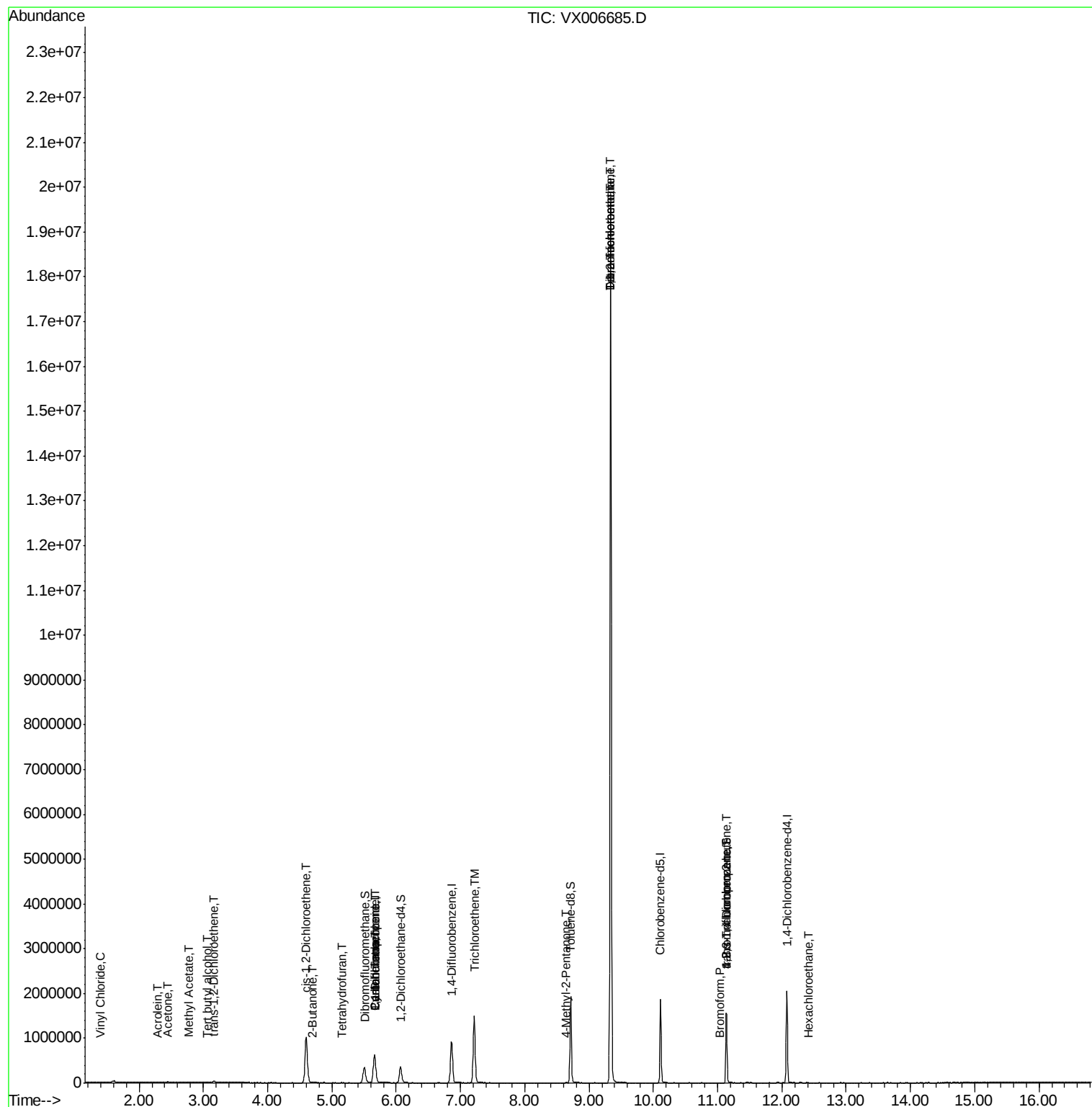
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	634779	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	1001528	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	913160	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	443619	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.07	65	342657	50.09	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.18%	
35) Dibromofluoromethane	5.51	113	297126	46.91	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.82%	
50) Toluene-d8	8.71	98	1172940	49.12	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.24%	
62) 4-Bromofluorobenzene	11.13	95	432233	49.43	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.86%	
Target Compounds						
					Qvalue	
4) Vinyl Chloride	1.41	62	2124	0.325	ug/l #	74
5) Bromomethane	1.65	94	308	Below Cal	#	52
11) Tert butyl alcohol	3.06	59	1210	0.793	ug/l #	30
13) Acrolein	2.29	56	217	0.211	ug/l #	13
16) Acetone	2.45	43	13770	4.381	ug/l	96
18) Methyl Acetate	2.78	43	6739	0.729	ug/l	96
21) trans-1,2-Dichloroethene	3.17	96	11187	1.780	ug/l	92
25) 2-Butanone	4.71	43	2978	0.674	ug/l	94
27) cis-1,2-Dichloroethene	4.60	96	690817	99.637	ug/l	92
28) Bromochloromethane	5.01	49	266	Below Cal	#	22
29) Tetrahydrofuran	5.16	42	1485	0.510	ug/l #	55
31) Cyclohexane	5.66	56	10655	1.125	ug/l #	1
36) 1,1-Dichloropropene	5.67	75	40976	4.940	ug/l #	49
38) Carbon Tetrachloride	5.67	117	58728	7.285	ug/l #	15
44) Trichloroethene	7.21	130	597109	78.243	ug/l	100
49) 1,4-Dioxane	7.76	88	23	Below Cal	#	1
51) 4-Methyl-2-Pentanone	8.64	43	1816	0.217	ug/l #	82
55) 1,1,2-Trichloroethane	9.34	97	30565	4.584	ug/l #	1
60) Dibromochloromethane	9.34	129	3528049	484.733	ug/l #	10
64) Tetrachloroethene	9.34	164	3747353	518.246	ug/l	98
71) Bromoform	11.04	173	136	4.483	ug/l #	28
76) 1,2,3-Trichloropropane	11.13	75	199119	24.152	ug/l #	40
81) trans-1,4-Dichloro-2-buten	11.13	75	199119	71.513	ug/l #	10
90) Hexachloroethane	12.41	117	29	3.300	ug/l	93

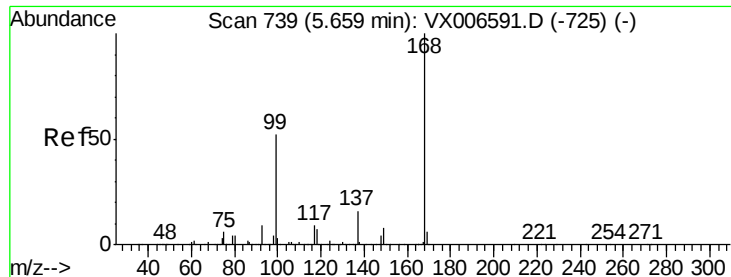
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
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: VX006685.D

Acq: 20 Dec 2018 19:21

Instrument :

MSVOA_X

ClientSampleId :

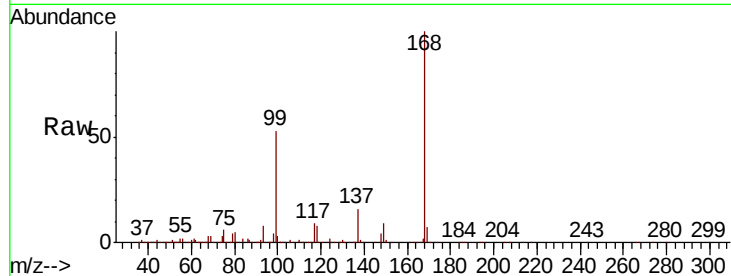
965-MW-03A(17)

Tot Ion:168 Resp: 634779

Ion Ratio Lower Upper

168 100

99 52.8 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

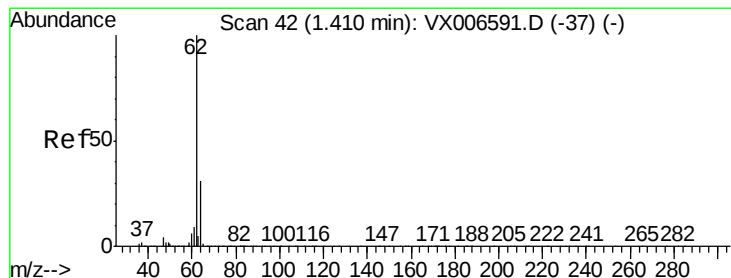
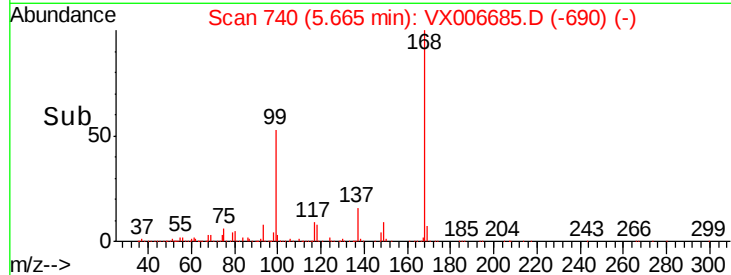
150000

100000

50000

0

Time-->



#4

Vinyl Chloride

Concen: 0.325 ug/l

RT: 1.41 min Scan# 42

Delta R.T. -0.00 min

Lab File: VX006685.D

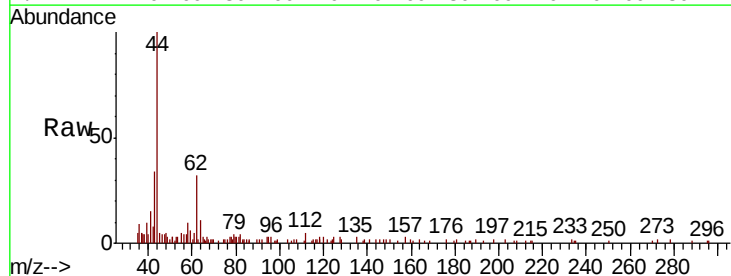
Acq: 20 Dec 2018 19:21

Tgt Ion: 62 Resp: 2124

Ion Ratio Lower Upper

62 100

64 17.1 25.1 37.7#



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0

1.41

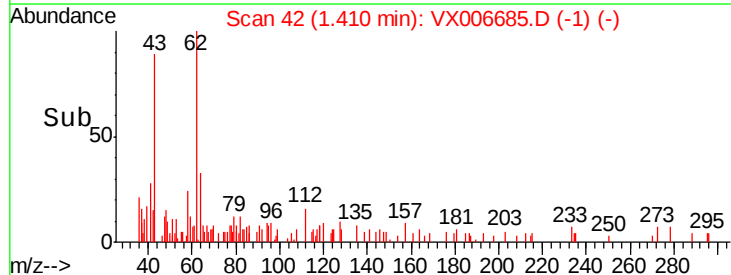
1500

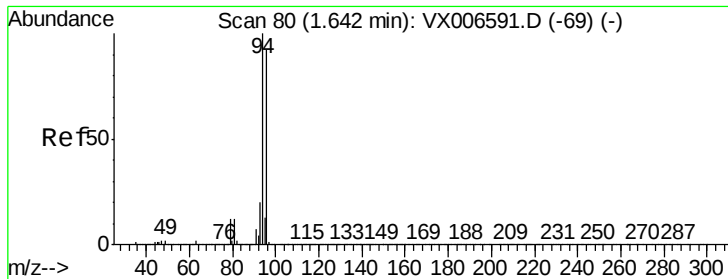
1000

500

0

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX006685.D

Acq: 20 Dec 2018 19:21

Instrument :

MSVOA_X

ClientSampleId :

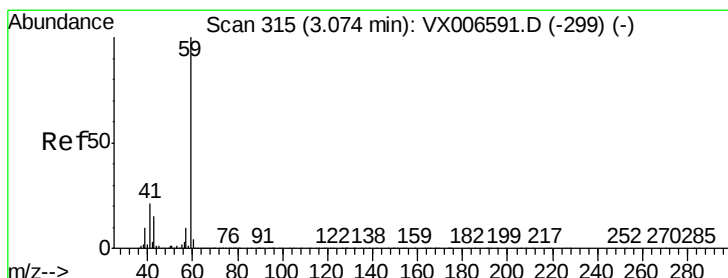
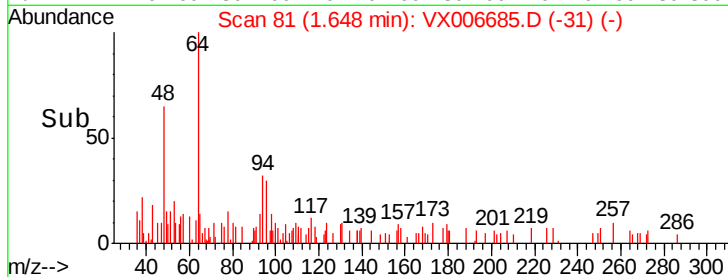
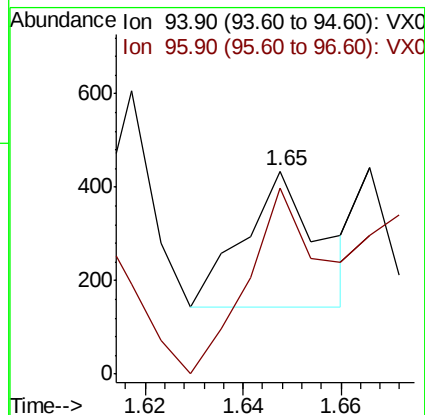
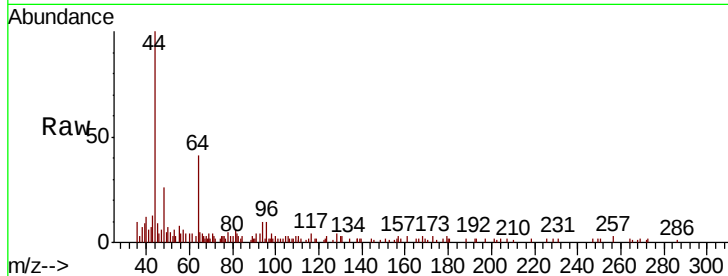
965-MW-03A(17)

Tot Ion: 94 Resp: 308

Ion Ratio Lower Upper

94 100

96 137.6 73.4 110.2#



#11

Tert butyl alcohol

Concen: 0.793 ug/l

RT: 3.06 min Scan# 313

Delta R.T. -0.01 min

Lab File: VX006685.D

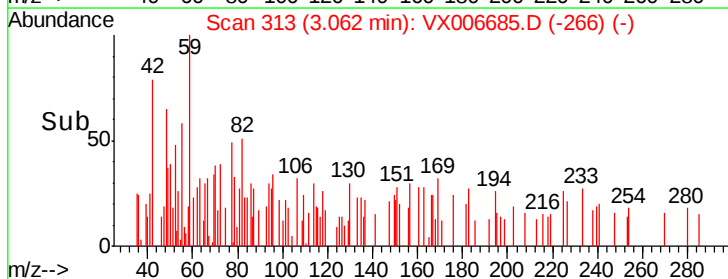
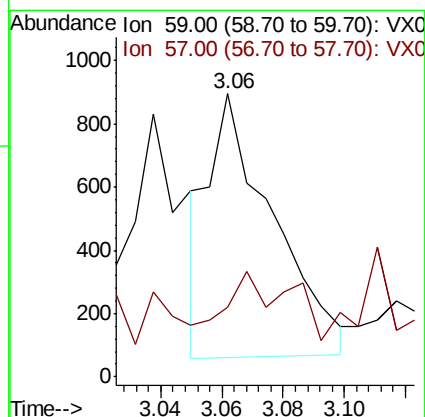
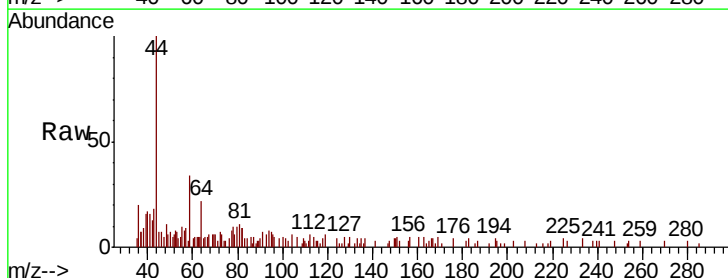
Acq: 20 Dec 2018 19:21

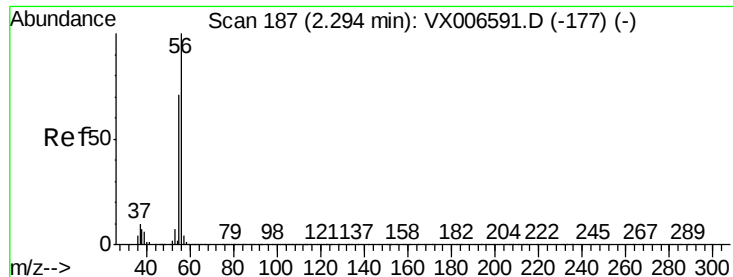
Tgt Ion: 59 Resp: 1210

Ion Ratio Lower Upper

59 100

57 36.8 8.5 12.7#





#13

Acrolein

Concen: 0.211 ug/l

RT: 2.29 min Scan# 186

Delta R.T. -0.01 min

Lab File: VX006685.D

Acq: 20 Dec 2018 19:21

Instrument :

MSVOA_X

ClientSampleId :

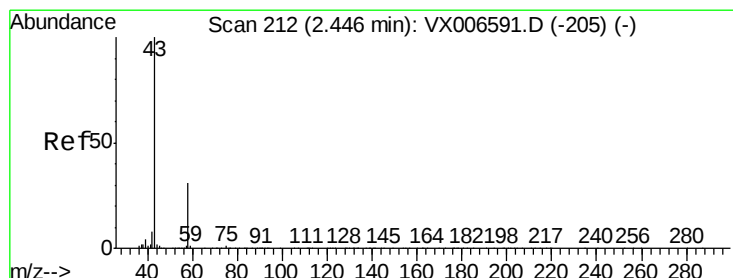
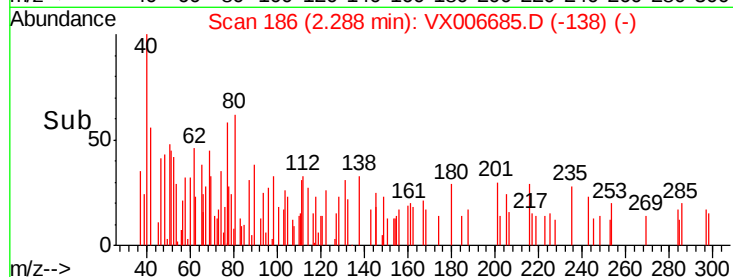
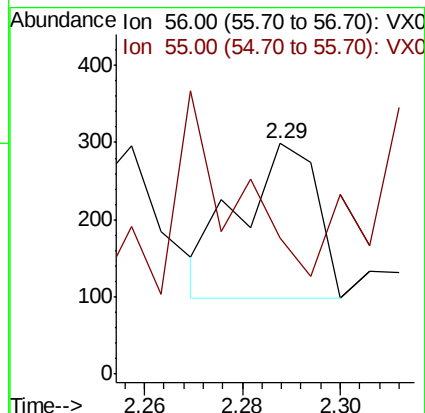
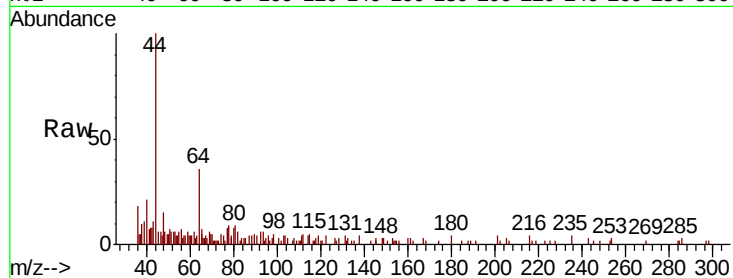
965-MW-03A(17)

Tot Ion: 56 Resp: 217

Ion Ratio Lower Upper

56 100

55 0.0 58.2 87.4#



#16

Acetone

Concen: 4.381 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX006685.D

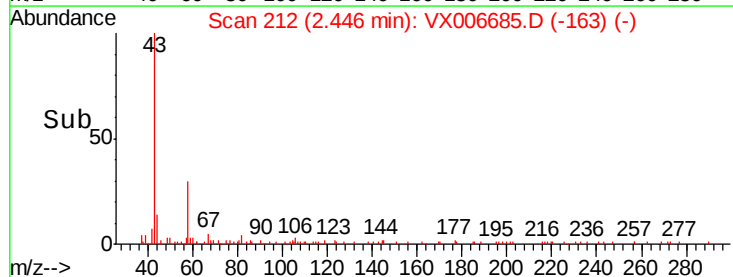
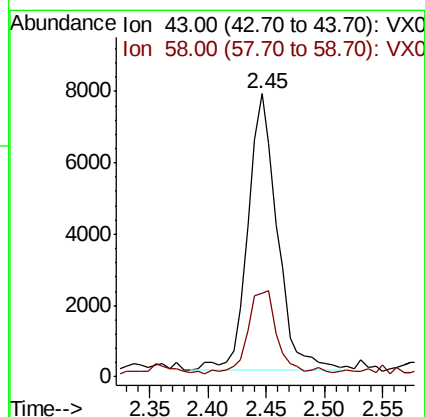
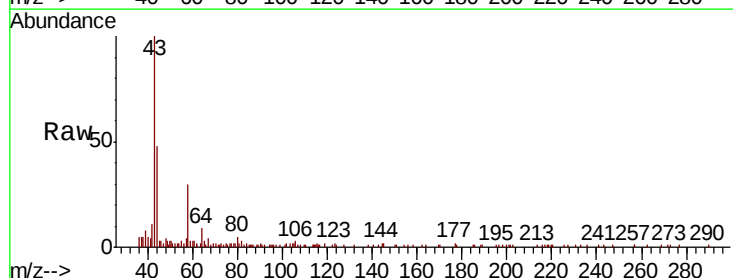
Acq: 20 Dec 2018 19:21

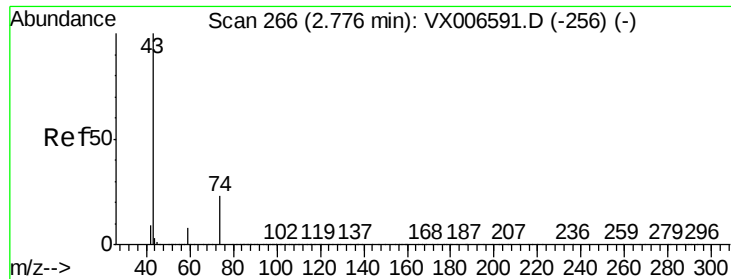
Tgt Ion: 43 Resp: 13770

Ion Ratio Lower Upper

43 100

58 29.0 25.0 37.6

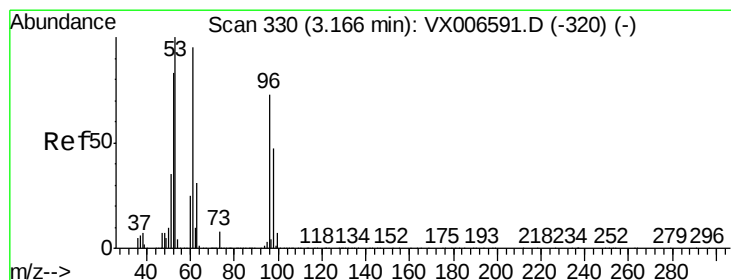
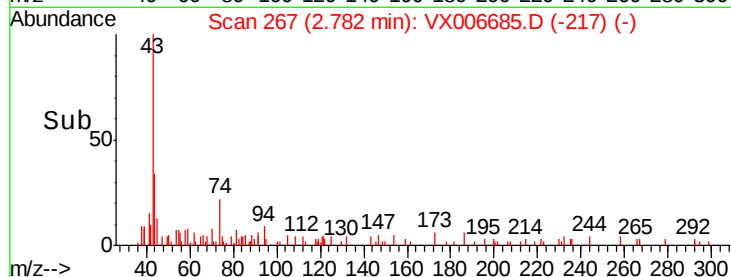
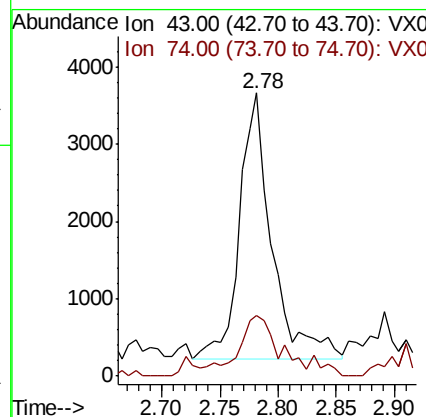
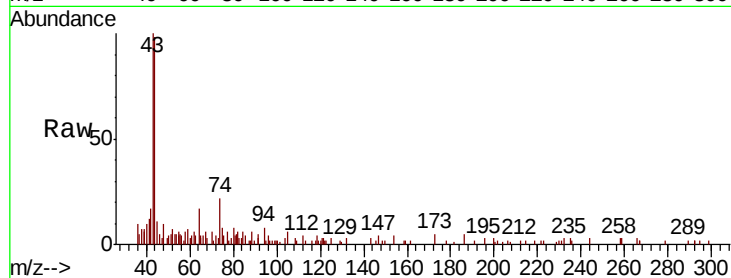




#18
Methvl Acetate
Concen: 0.729 ug/l
RT: 2.78 min Scan# 267
Delta R.T. 0.01 min
Lab File: VX006685.D
Acq: 20 Dec 2018 19:21

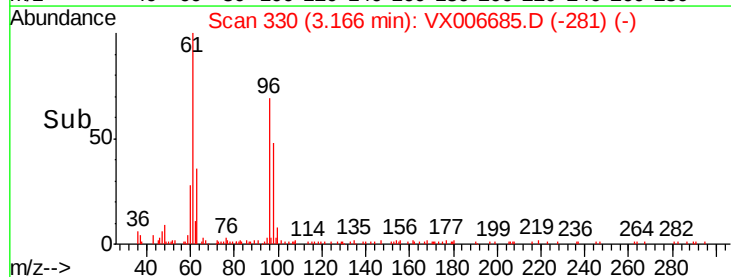
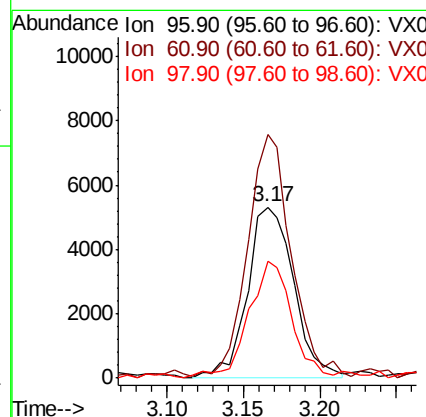
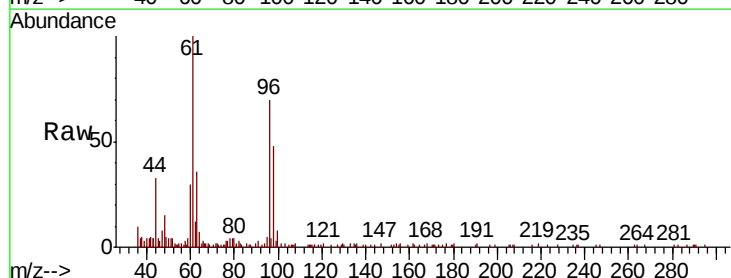
Instrument :
MSVOA_X
ClientSampleId :
965-MW-03A(17)

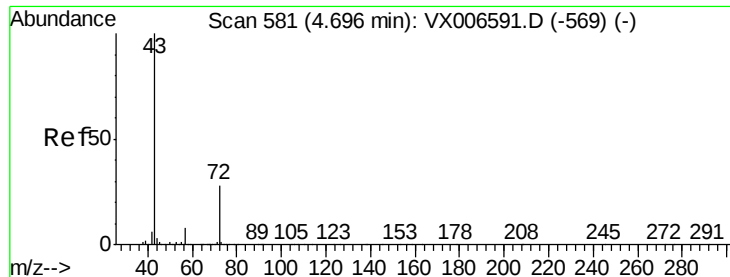
Tot Ion: 43 Resp: 6739
Ion Ratio Lower Upper
43 100
74 21.3 18.6 28.0



#21
trans-1,2-Dichloroethene
Concen: 1.780 ug/l
RT: 3.17 min Scan# 330
Delta R.T. -0.00 min
Lab File: VX006685.D
Acq: 20 Dec 2018 19:21

Tgt Ion: 96 Resp: 11187
Ion Ratio Lower Upper
96 100
61 141.1 103.7 155.5
98 67.0 51.0 76.6





#25

2-Butanone

Concen: 0.674 ug/l

RT: 4.71 min Scan# 583

Delta R.T. 0.01 min

Lab File: VX006685.D

Acq: 20 Dec 2018 19:21

Instrument :

MSVOA_X

ClientSampleId :

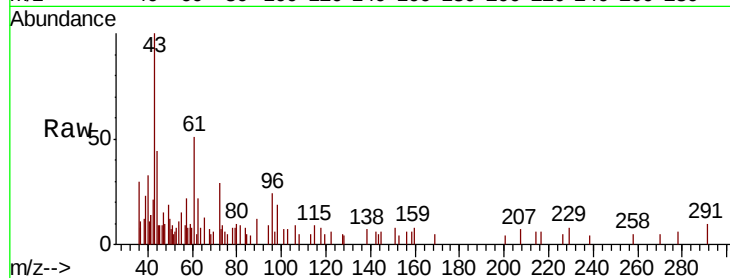
965-MW-03A(17)

Tot Ion: 43 Resp: 2978

Ion Ratio Lower Upper

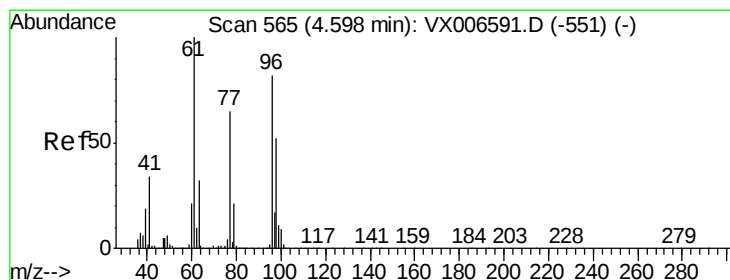
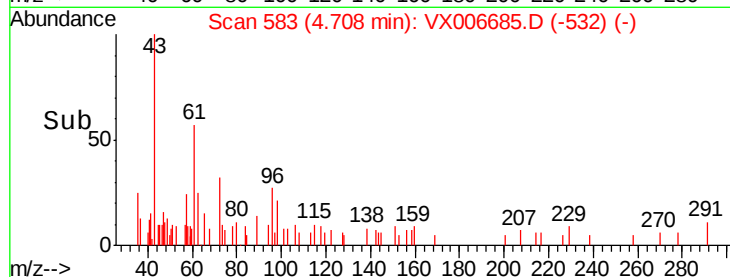
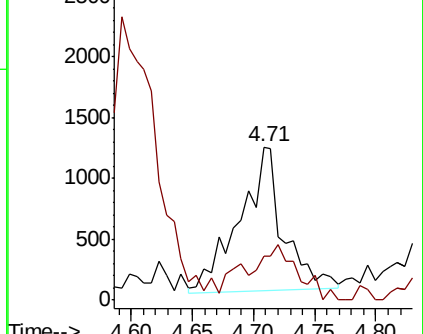
43 100

72 31.1 22.4 33.6



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



#27

cis-1,2-Dichloroethene

Concen: 99.637 ug/l

RT: 4.60 min Scan# 565

Delta R.T. -0.00 min

Lab File: VX006685.D

Acq: 20 Dec 2018 19:21

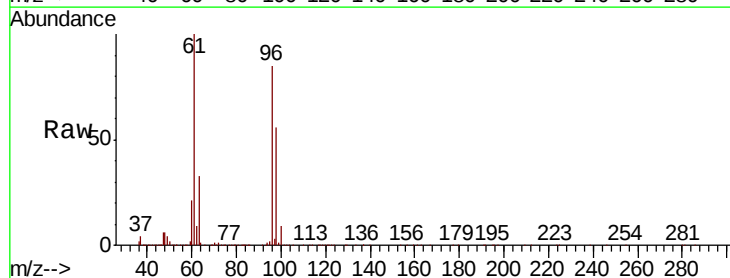
Tgt Ion: 96 Resp: 690817

Ion Ratio Lower Upper

96 100

61 116.3 0.0 258.6

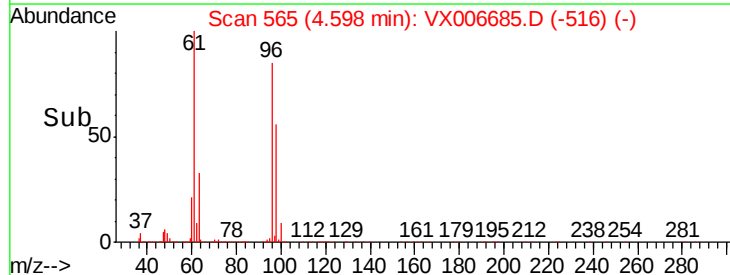
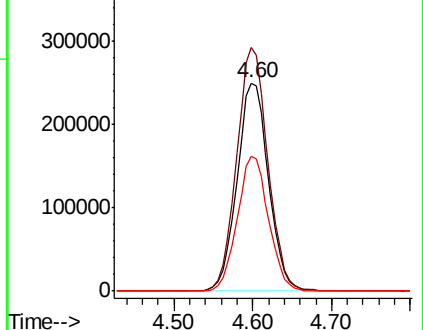
98 64.4 0.0 132.0

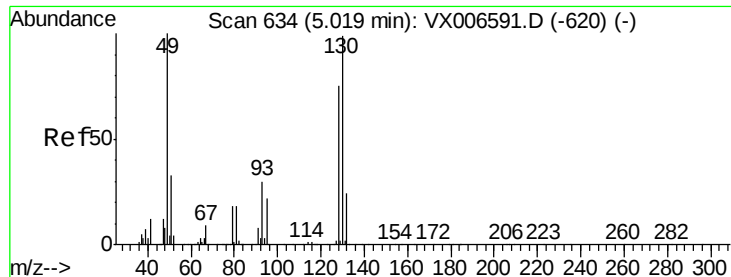


Abundance Ion 95.90 (95.60 to 96.60): VX0

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# 633

Delta R.T. -0.01 min

Lab File: VX006685.D

Acq: 20 Dec 2018 19:21

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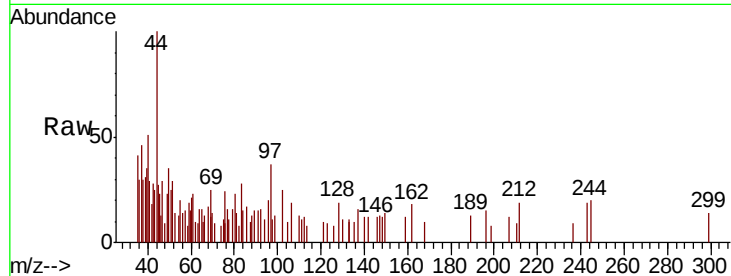
Tot Ion: 49 Resp: 266

Ion Ratio Lower Upper

49 100

129 0.0 0.0 5.4

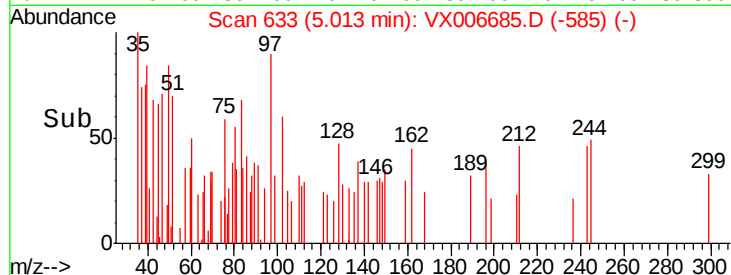
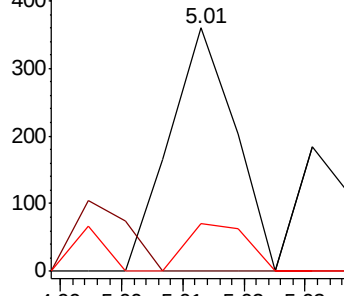
130 18.4 77.7 116.5#



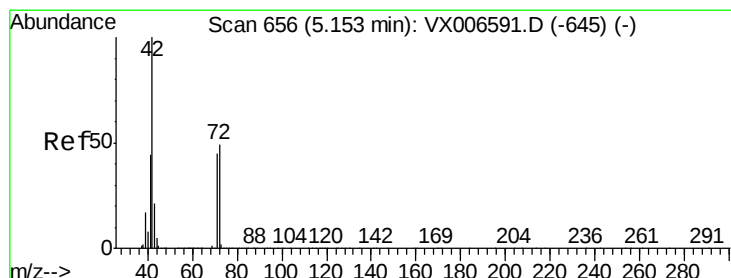
Abundance Ion 48.90 (48.60 to 49.60): VX0

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V



Time-->



#29

Tetrahydrofuran

Concen: 0.510 ug/l

RT: 5.16 min Scan# 657

Delta R.T. 0.01 min

Lab File: VX006685.D

Acq: 20 Dec 2018 19:21

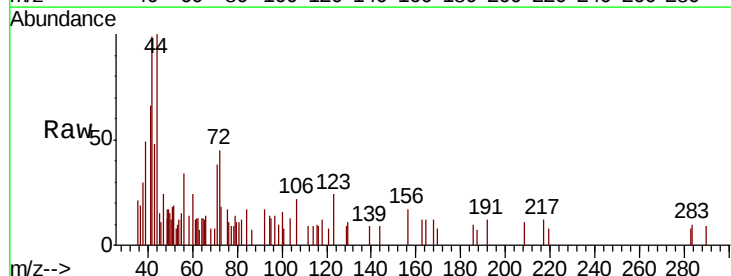
Tgt Ion: 42 Resp: 1485

Ion Ratio Lower Upper

42 100

72 0.0 38.9 58.3#

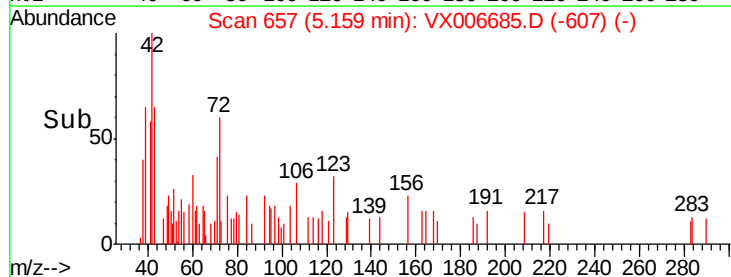
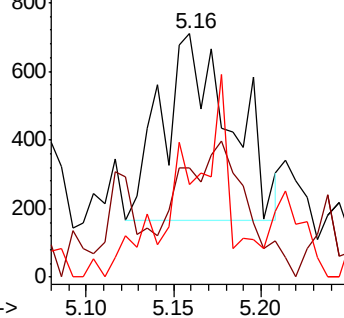
71 34.7 36.2 54.4#



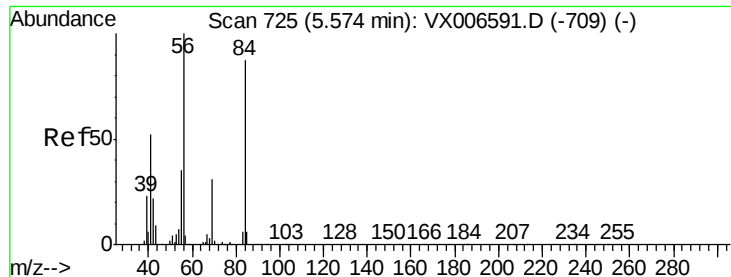
Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0



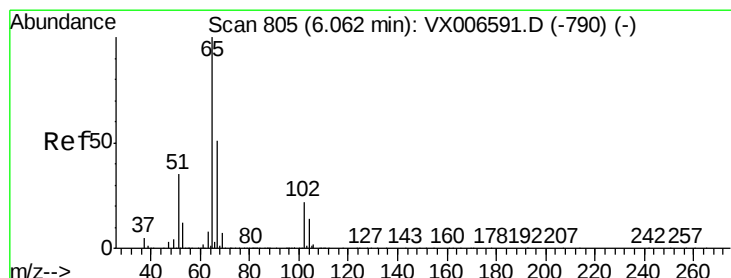
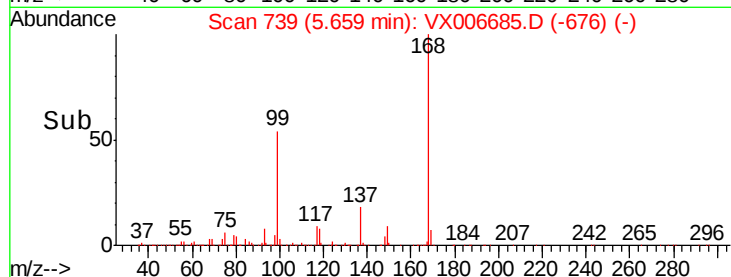
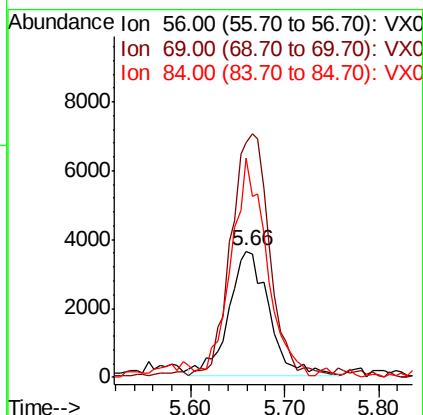
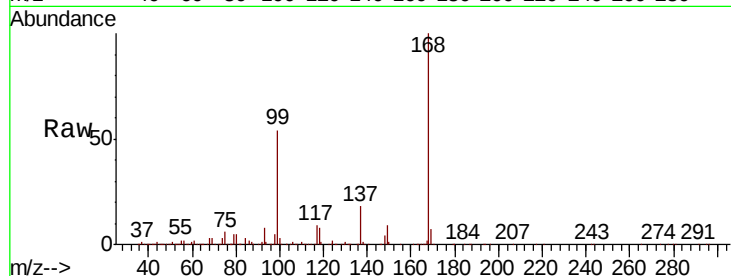
Time-->



#31
Cyclohexane
Concen: 1.125 ug/l
RT: 5.66 min Scan# 739
Delta R.T. 0.09 min
Lab File: VX006685.D
Acq: 20 Dec 2018 19:21

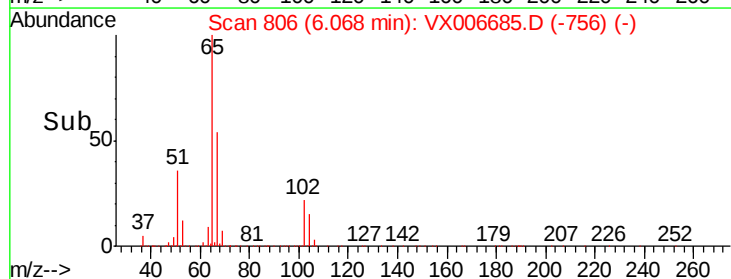
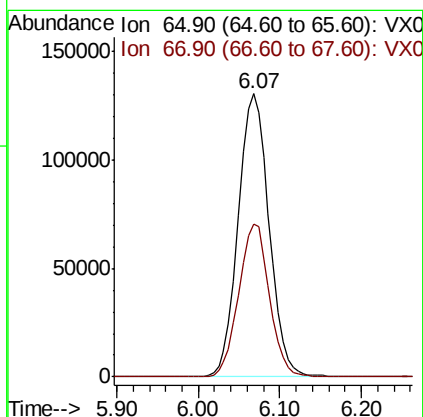
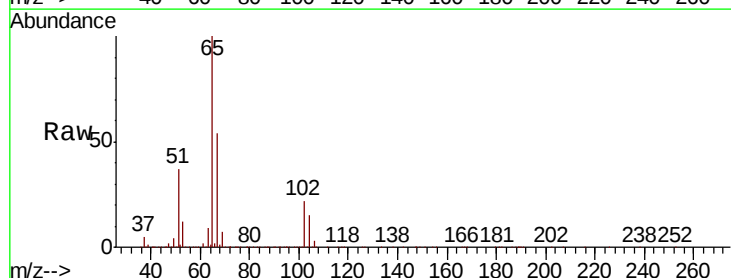
Instrument :
MSVOA_X
ClientSampleId :
965-MW-03A(17)

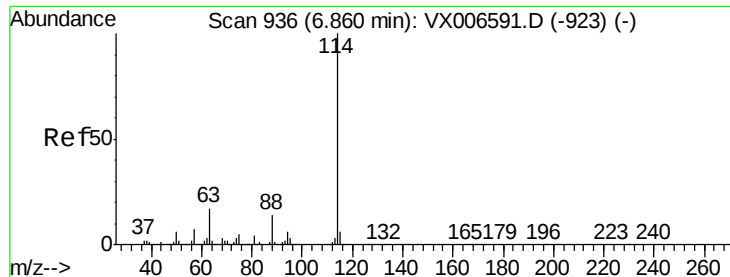
Tot Ion: 56 Resp: 10655
Ion Ratio Lower Upper
56 100
69 187.5 24.4 36.6#
84 174.6 70.0 105.0#



#33
1,2-Dichloroethane-d4
Concen: 50.086 ug/l
RT: 6.07 min Scan# 806
Delta R.T. 0.01 min
Lab File: VX006685.D
Acq: 20 Dec 2018 19:21

Tgt Ion: 65 Resp: 342657
Ion Ratio Lower Upper
65 100
67 53.4 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: VX006685.D

Acq: 20 Dec 2018 19:21

Instrument :

MSVOA_X

ClientSampleId :

965-MW-03A(17)

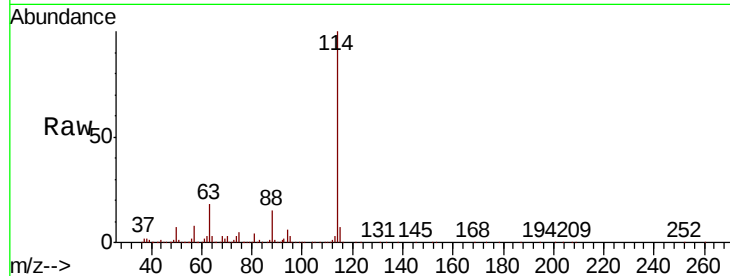
Tot Ion:114 Resp: 1001528

Ion Ratio Lower Upper

114 100

63 18.0 0.0 34.8

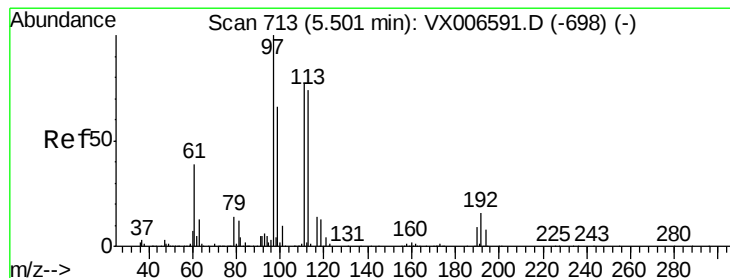
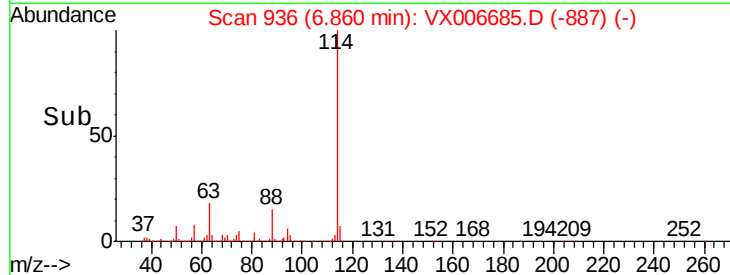
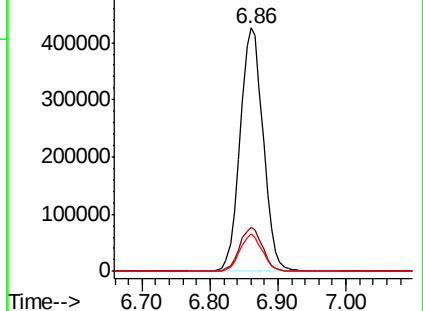
88 15.4 0.0 28.8



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: 46.914 ug/l

RT: 5.51 min Scan# 714

Delta R.T. 0.01 min

Lab File: VX006685.D

Acq: 20 Dec 2018 19:21

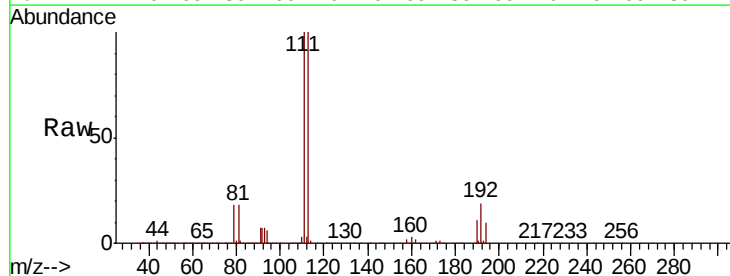
Tgt Ion:113 Resp: 297126

Ion Ratio Lower Upper

113 100

111 102.2 81.6 122.4

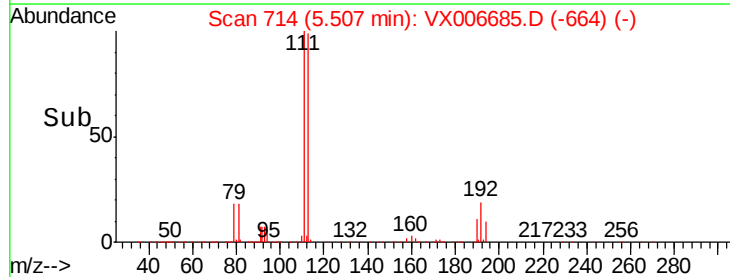
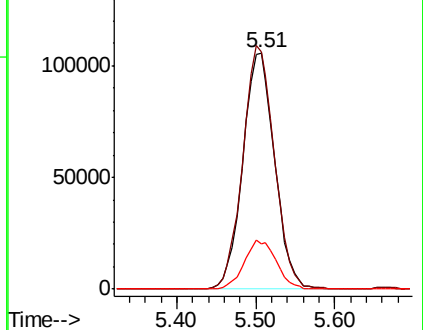
192 20.8 16.7 25.1

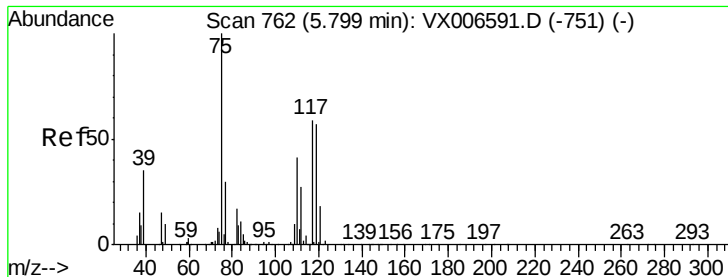


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.940 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.13 min

Lab File: VX006685.D

Acq: 20 Dec 2018 19:21

Instrument :

MSVOA_X

ClientSampleId :

965-MW-03A(17)

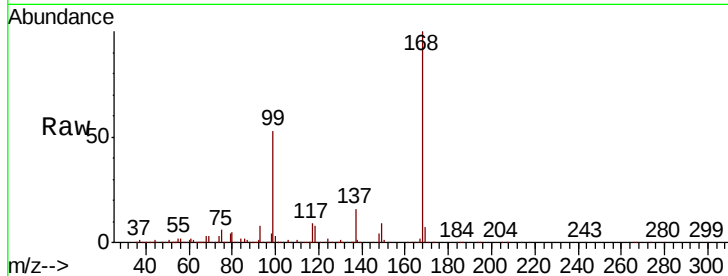
Tot Ion: 75 Resp: 40976

Ion Ratio Lower Upper

75 100

110 11.2 20.2 60.5#

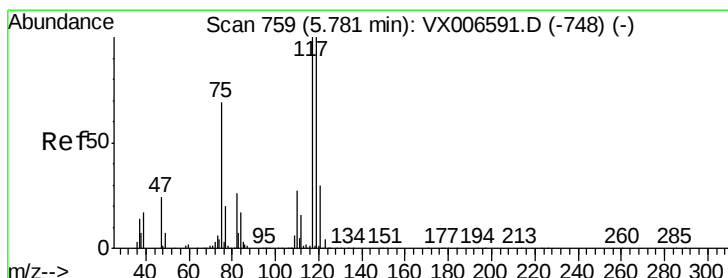
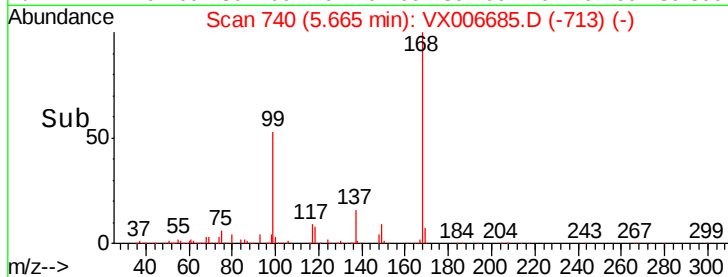
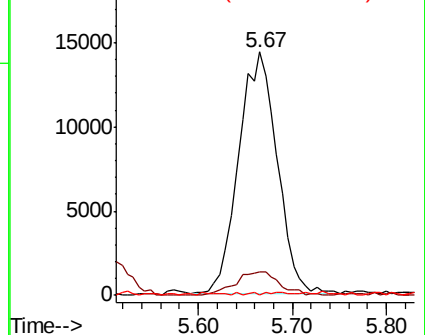
77 0.1 24.8 37.2#



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: 7.285 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX006685.D

Acq: 20 Dec 2018 19:21

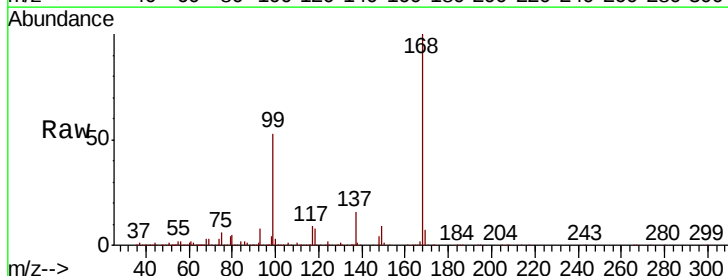
Tgt Ion: 117 Resp: 58728

Ion Ratio Lower Upper

117 100

119 5.0 79.4 119.2#

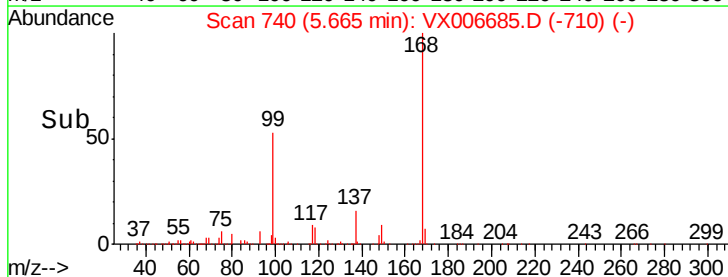
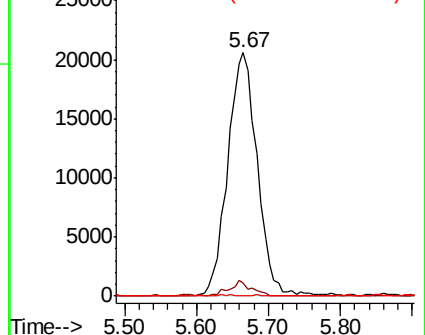
121 0.3 24.0 36.0#

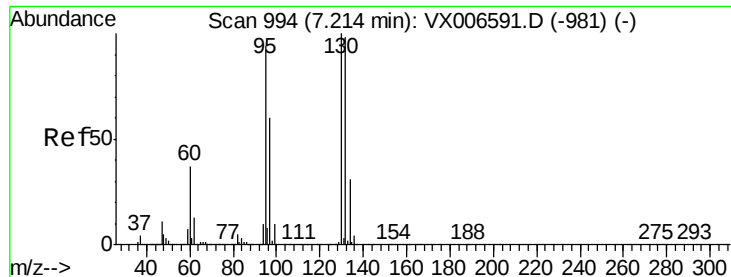


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#44

Trichloroethene

Concen: 78.243 ug/l

RT: 7.21 min Scan# 994

Delta R.T. -0.00 min

Lab File: VX006685.D

Acq: 20 Dec 2018 19:21

Instrument :

MSVOA_X

ClientSampleId :

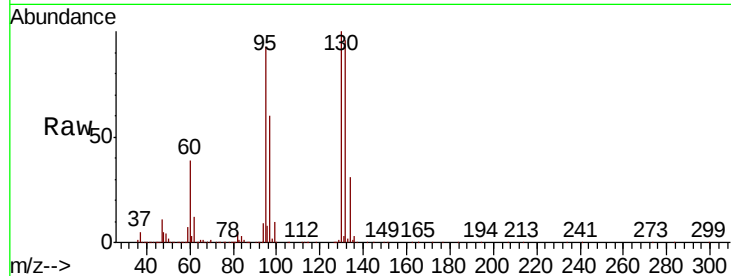
965-MW-03A(17)

Tot Ion:130 Resp: 597109

Ion Ratio Lower Upper

130 100

95 93.2 0.0 187.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

7.21

300000

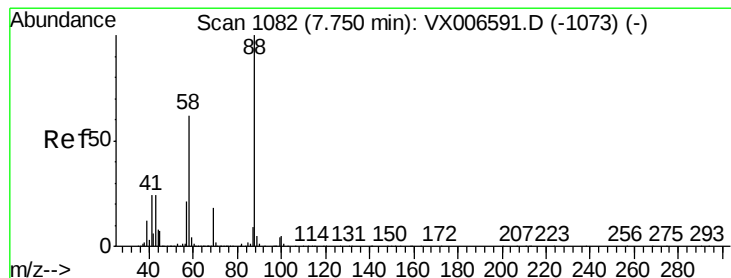
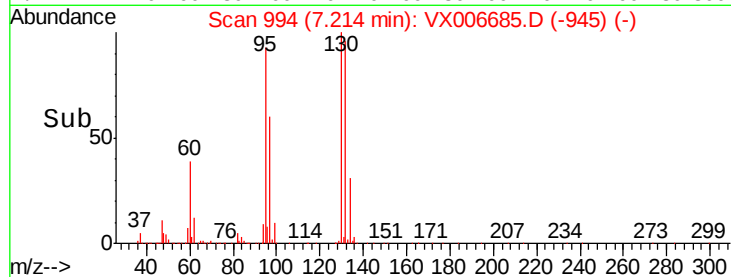
200000

100000

0

7.10 7.20 7.30

Time-->



#49

1,4-Dioxane

Concen: Below Cal

RT: 7.76 min Scan# 1083

Delta R.T. 0.01 min

Lab File: VX006685.D

Acq: 20 Dec 2018 19:21

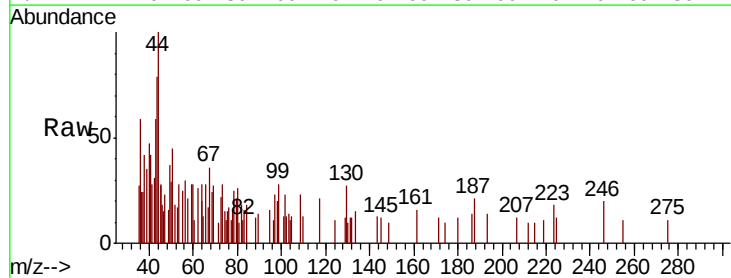
Tgt Ion: 88 Resp: 23

Ion Ratio Lower Upper

88 100

43 1326.1 22.2 33.4#

58 221.7 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

400

300

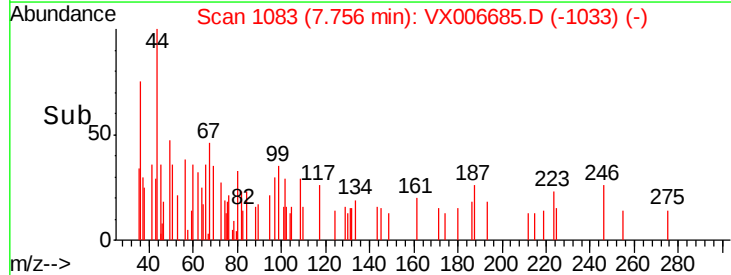
200

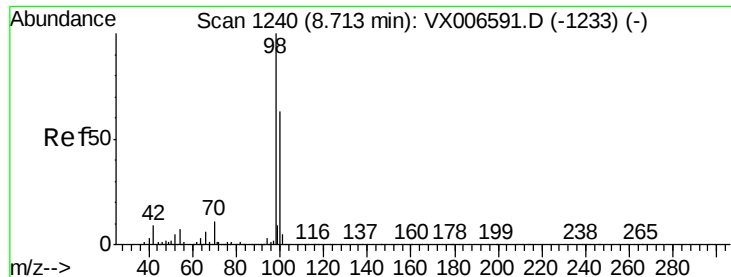
100

0

7.74 7.75 7.76

Time-->





#50

Toluene-d8

Concen: 49.123 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX006685.D

Acq: 20 Dec 2018 19:21

Instrument :

MSVOA_X

ClientSampleId :

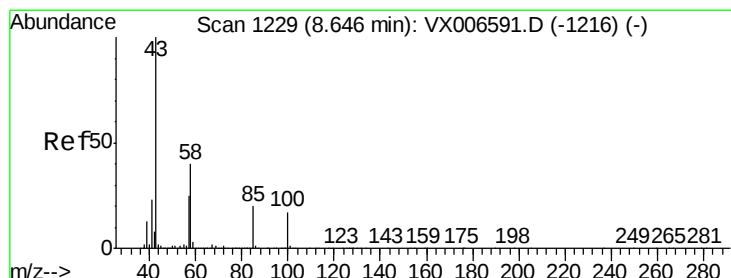
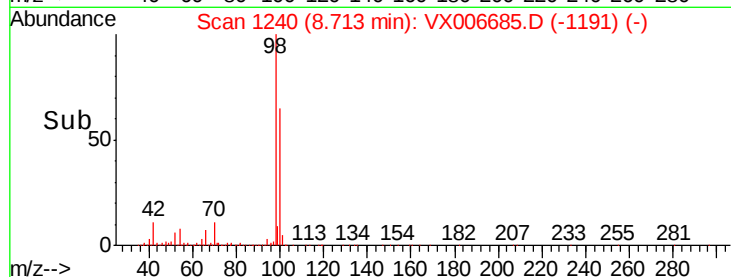
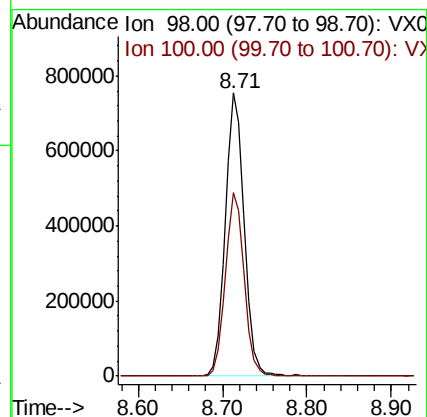
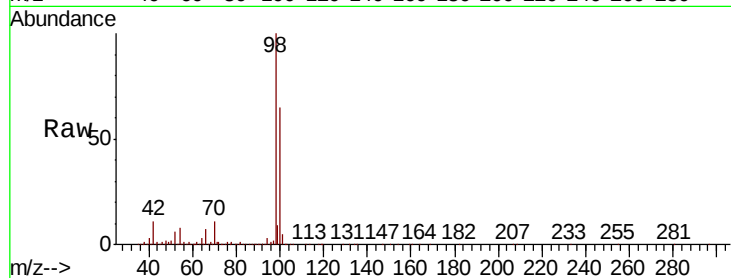
965-MW-03A(17)

Tot Ion: 98 Resp: 1172940

Ion Ratio Lower Upper

98 100

100 64.6 52.0 78.0



#51

4-Methyl-2-Pentanone

Concen: 0.217 ug/l

RT: 8.64 min Scan# 1228

Delta R.T. -0.01 min

Lab File: VX006685.D

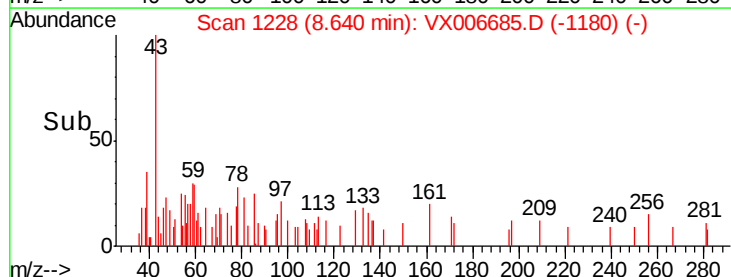
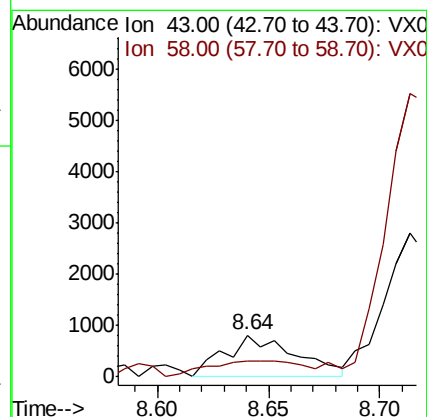
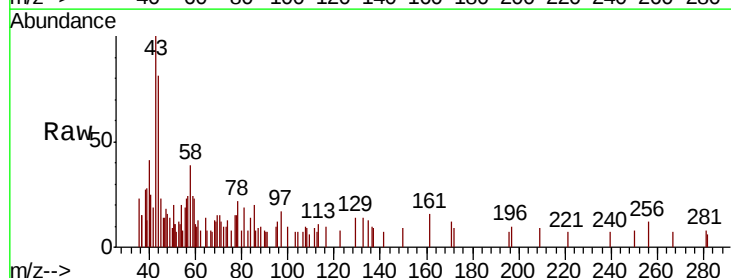
Acq: 20 Dec 2018 19:21

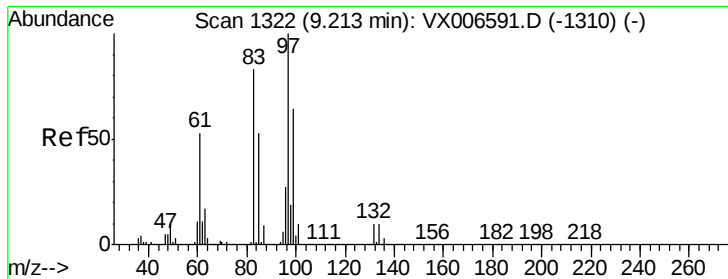
Tgt Ion: 43 Resp: 1816

Ion Ratio Lower Upper

43 100

58 50.8 31.8 47.6#





#55

1,1,2-Trichloroethane

Concen: 4.584 ug/l

RT: 9.34 min Scan# 1342

Delta R.T. 0.12 min

Lab File: VX006685.D

Acq: 20 Dec 2018 19:21

Instrument :

MSVOA_X

ClientSampleId :

965-MW-03A(17)

Tot Ion: 97 Resp: 30565

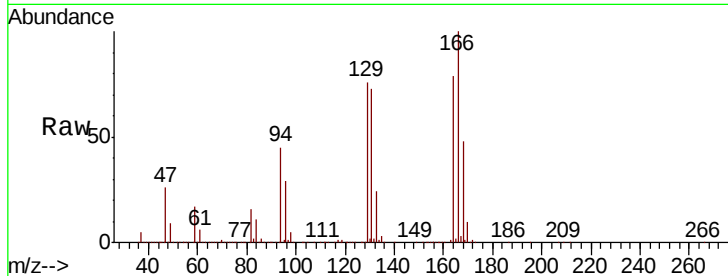
Ion Ratio Lower Upper

97 100

83 269.2 66.6 99.8#

85 40.1 42.7 64.1#

99 16.3 50.8 76.2#

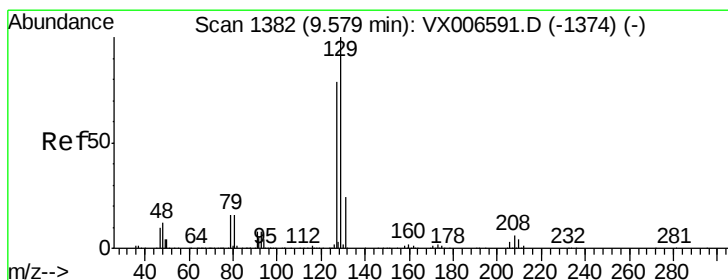
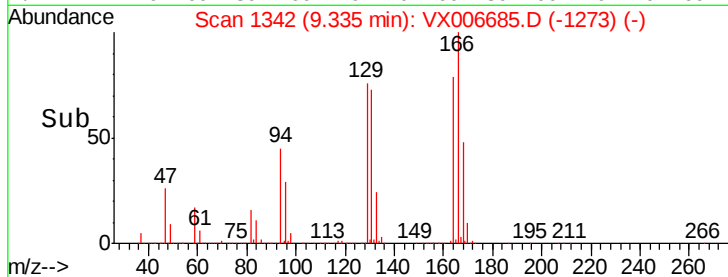
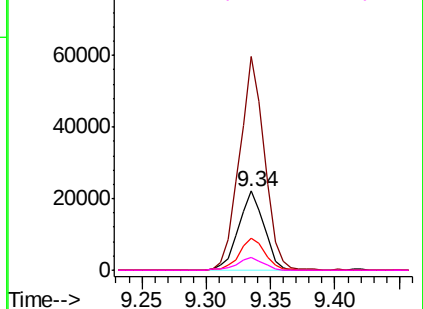


Abundance Ion 96.90 (96.60 to 97.60): VX0

Ion 82.90 (82.60 to 83.60): VX0

Ion 84.90 (84.60 to 85.60): VX0

Ion 98.90 (98.60 to 99.60): VX0



#60

Dibromochloromethane

Concen: 484.733 ug/l

RT: 9.34 min Scan# 1342

Delta R.T. -0.24 min

Lab File: VX006685.D

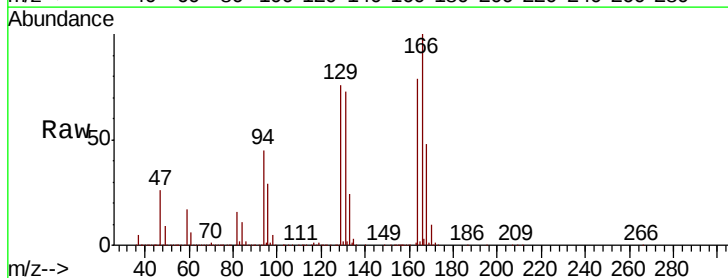
Acq: 20 Dec 2018 19:21

Tgt Ion:129 Resp: 3528049

Ion Ratio Lower Upper

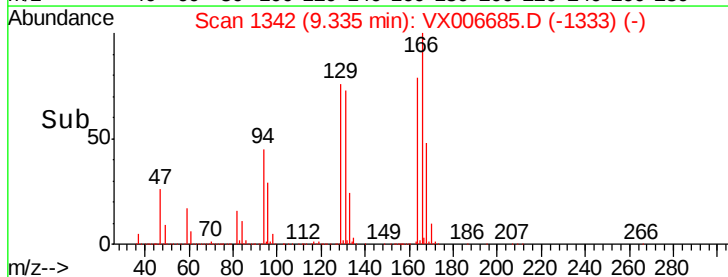
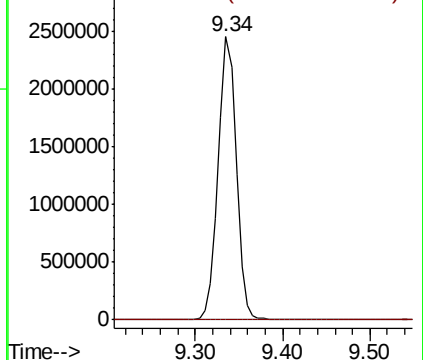
129 100

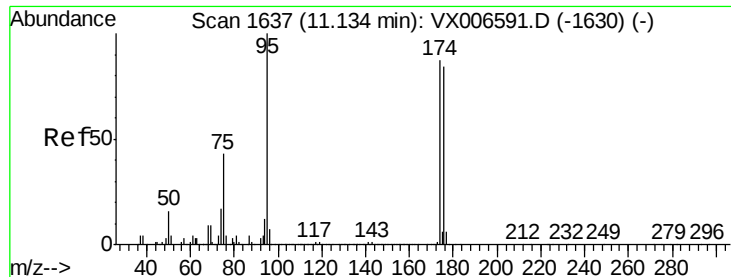
127 0.0 39.3 117.8#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V

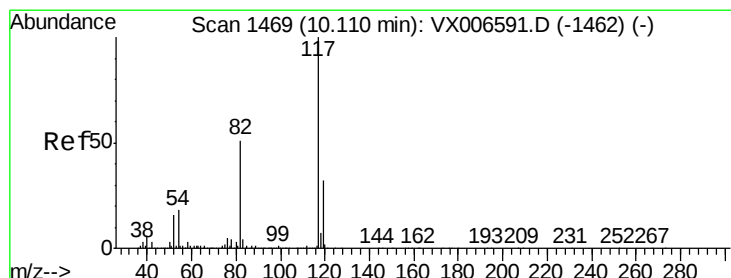
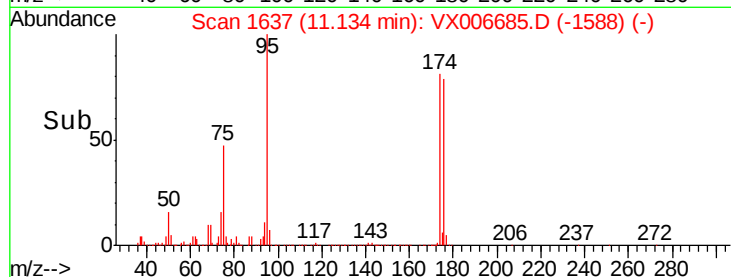
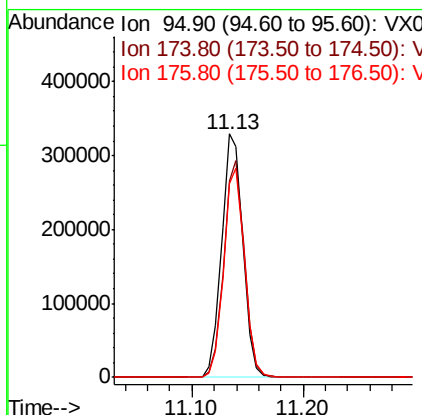
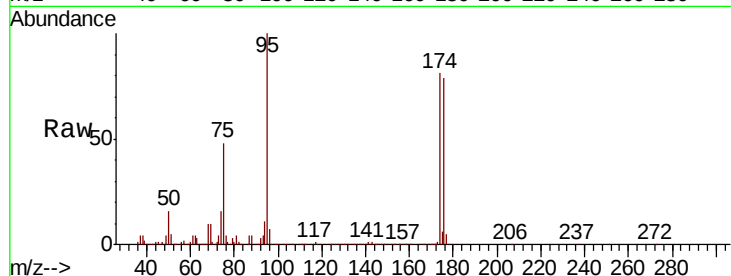




#62
4-Bromofluorobenzene
Concen: 49.427 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. -0.00 min
Lab File: VX006685.D
Acq: 20 Dec 2018 19:21

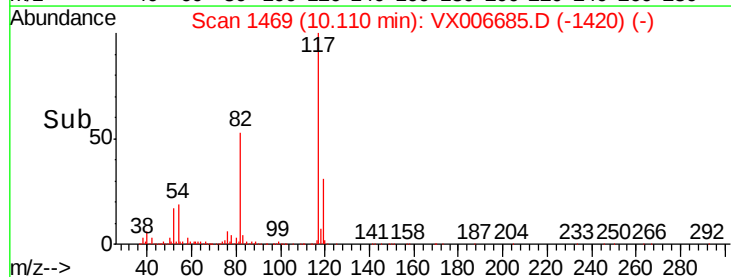
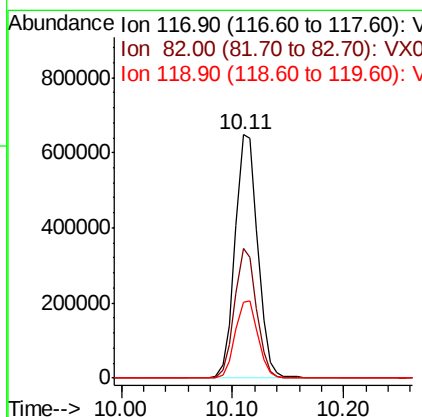
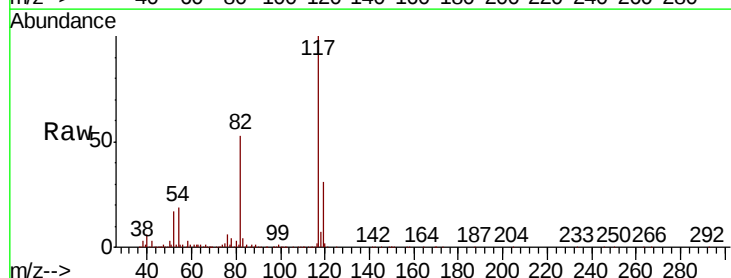
Instrument :
MSVOA_X
ClientSampleId :
965-MW-03A(17)

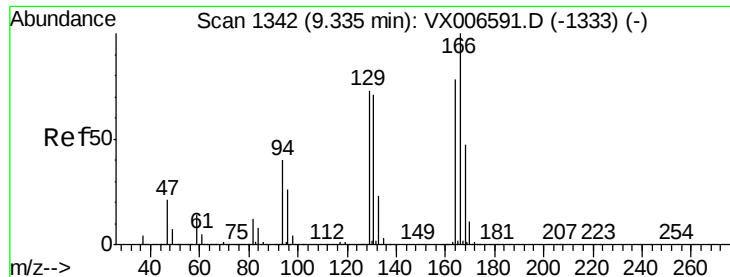
Tot Ion	Ratio	Lower	Upper
95	100		
174	86.7	0.0	182.2
176	84.2	0.0	178.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. -0.00 min
Lab File: VX006685.D
Acq: 20 Dec 2018 19:21

Tgt Ion	Ratio	Lower	Upper
117	100		
82	53.3	41.0	61.6
119	31.4	25.4	38.0





#64

Tetrachloroethene

Concen: 518.246 ug/l

RT: 9.34 min Scan# 1342

Delta R.T. -0.00 min

Lab File: VX006685.D

Acq: 20 Dec 2018 19:21

Instrument :

MSVOA_X

ClientSampleId :

965-MW-03A(17)

Tot Ion:164 Resp: 3747353

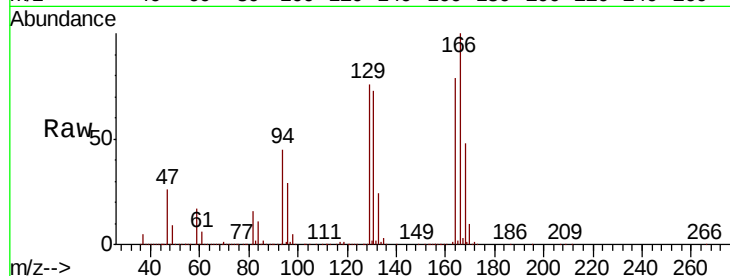
Ion Ratio Lower Upper

164 100

166 126.0 102.5 153.7

129 95.4 75.1 112.7

131 92.3 72.7 109.1

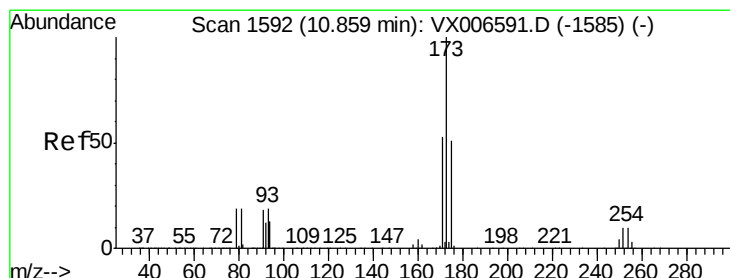
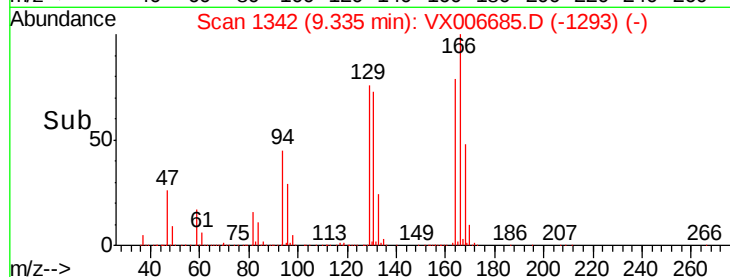
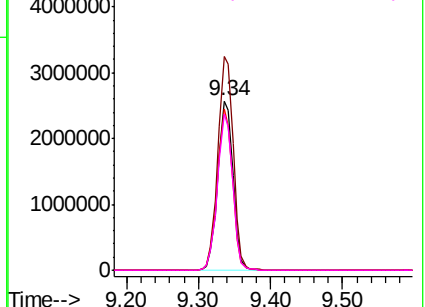


Abundance Ion 163.80 (163.50 to 164.50): V

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



#71

Bromoform

Concen: 4.483 ug/l

RT: 11.04 min Scan# 1621

Delta R.T. 0.18 min

Lab File: VX006685.D

Acq: 20 Dec 2018 19:21

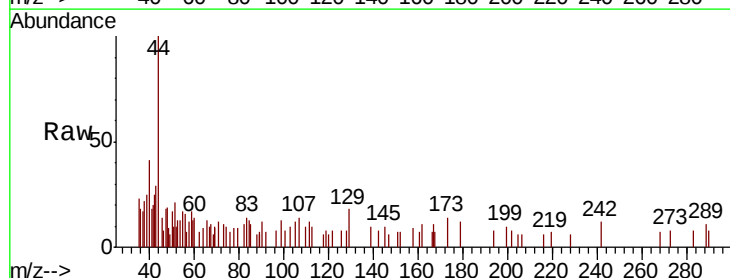
Tgt Ion:173 Resp: 136

Ion Ratio Lower Upper

173 100

175 0.0 24.7 74.1#

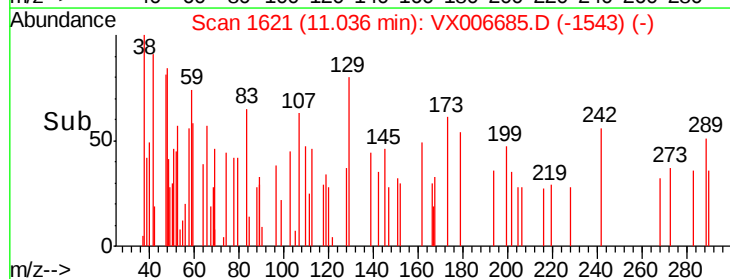
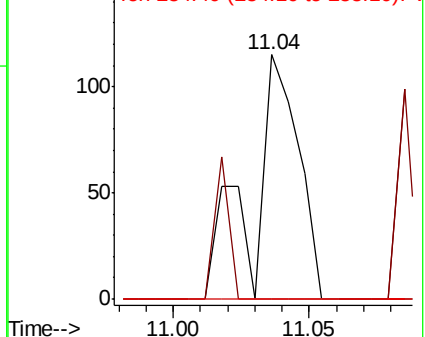
254 0.0 0.2 0.2#

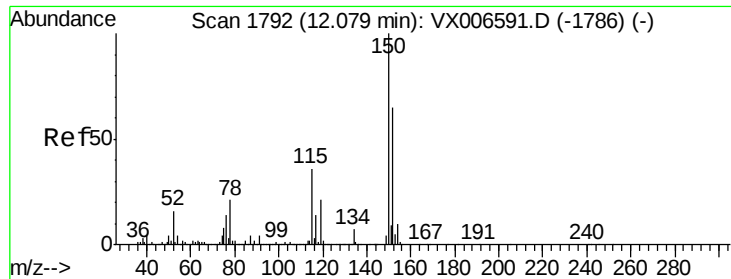


Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): 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: VX006685.D

Acq: 20 Dec 2018 19:21

Instrument :

MSVOA_X

ClientSampleId :

965-MW-03A(17)

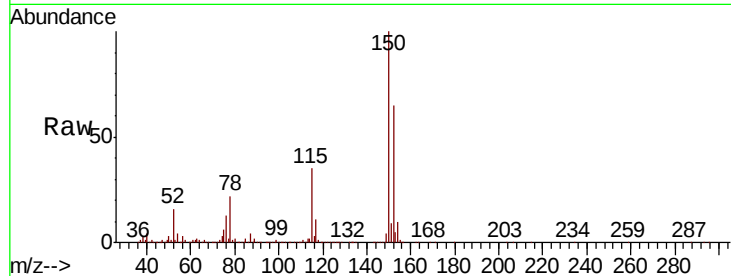
Tot Ion:152 Resp: 443619

Ion Ratio Lower Upper

152 100

115 55.6 39.1 117.2

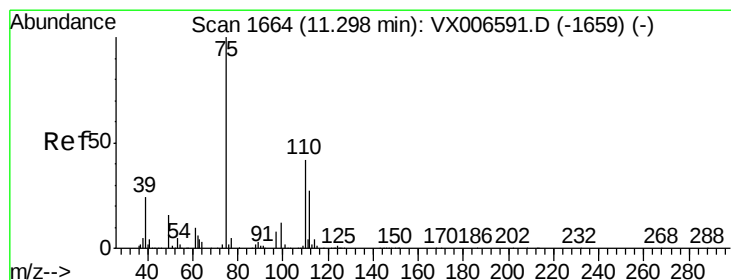
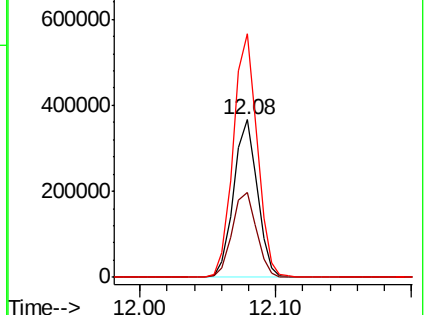
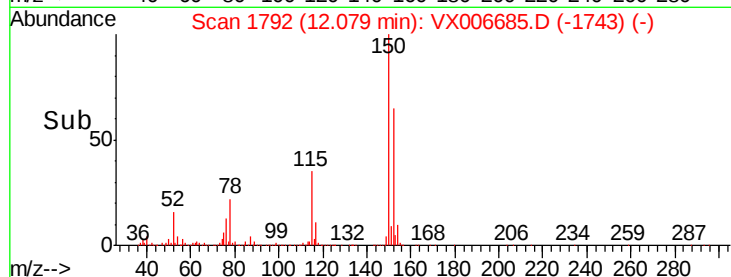
150 155.9 0.0 344.8



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: 24.152 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX006685.D

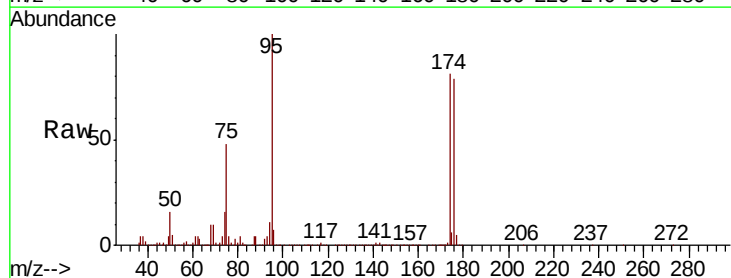
Acq: 20 Dec 2018 19:21

Tgt Ion: 75 Resp: 199119

Ion Ratio Lower Upper

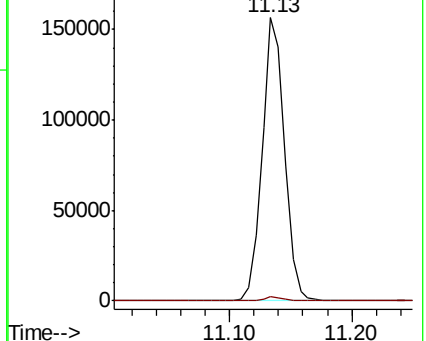
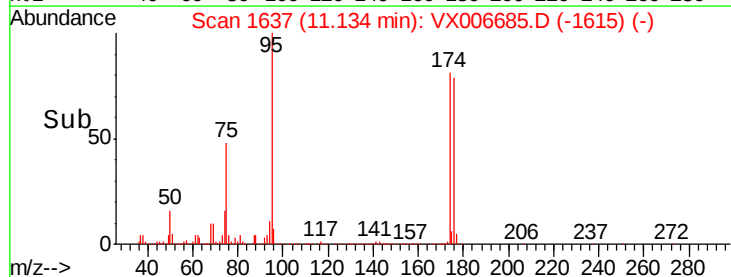
75 100

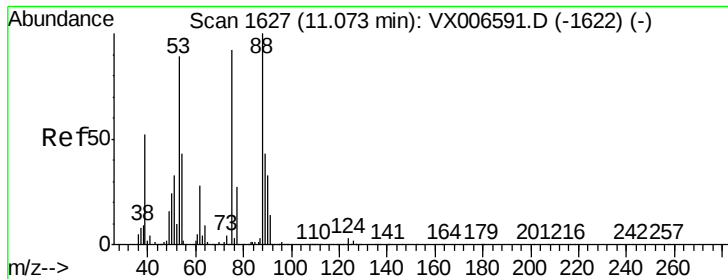
77 1.5 18.5 55.5#



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: 71.513 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX006685.D

Acq: 20 Dec 2018 19:21

Instrument :

MSVOA_X

ClientSampleId :

965-MW-03A(17)

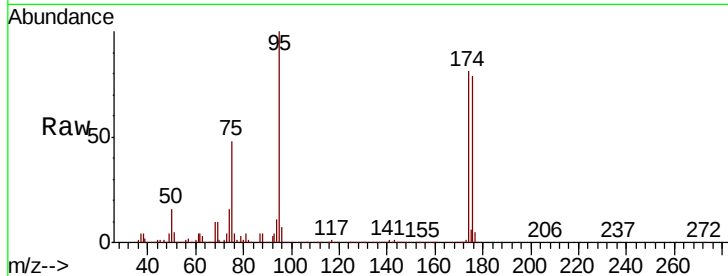
Tot Ion: 75 Resp: 199119

Ion Ratio Lower Upper

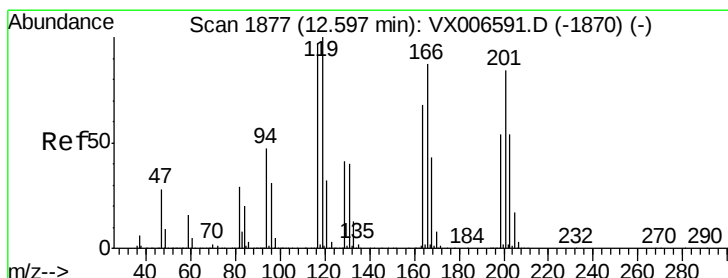
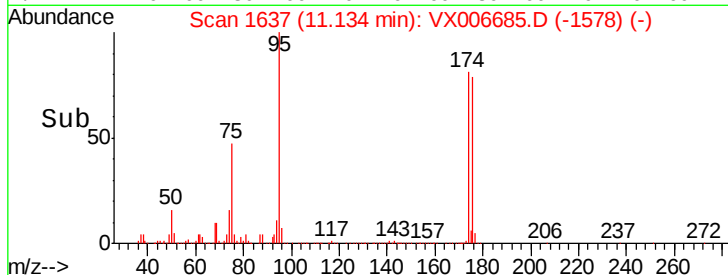
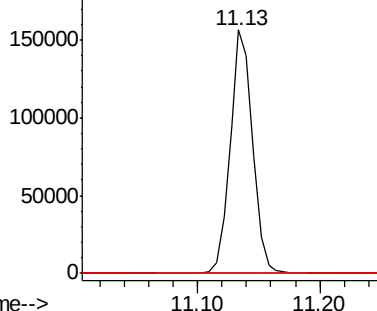
75 100

53 0.2 79.7 119.5#

89 0.0 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: 3.300 ug/l

RT: 12.41 min Scan# 1847

Delta R.T. -0.18 min

Lab File: VX006685.D

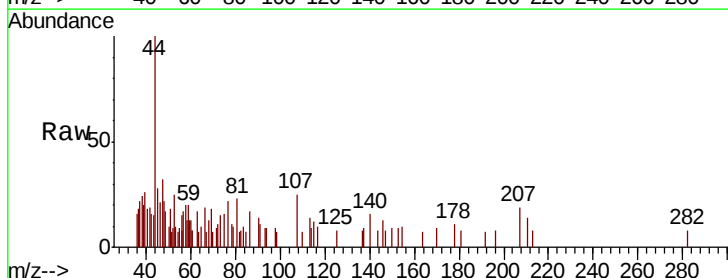
Acq: 20 Dec 2018 19:21

Tgt Ion: 117 Resp: 29

Ion Ratio Lower Upper

117 100

201 79.3 42.9 128.7



Abundance Ion 116.80 (116.50 to 117.50): V
Ion 200.70 (200.40 to 201.40): V

