

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX022519\
 Data File : VX007698.D
 Acq On : 26 Feb 2019 06:27
 Operator : JC/SP
 Sample : K1603-09
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 40 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 M1-T1-UV(PRE)

Quant Time: Feb 26 11:20:58 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X022519W.M
 Quant Title : SW846 8260
 QLast Update : Tue Feb 26 01:53:13 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	340485	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	585701	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	550642	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	250662	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	210290	49.86	ug/l	0.00
Spiked Amount			Recovery	=	99.72%	
35) Dibromofluoromethane	5.51	113	192586	49.19	ug/l	0.00
Spiked Amount			Recovery	=	98.38%	
50) Toluene-d8	8.71	98	703426	46.93	ug/l	0.00
Spiked Amount			Recovery	=	93.86%	
62) 4-Bromofluorobenzene	11.13	95	245005	44.53	ug/l	0.00
Spiked Amount			Recovery	=	89.06%	

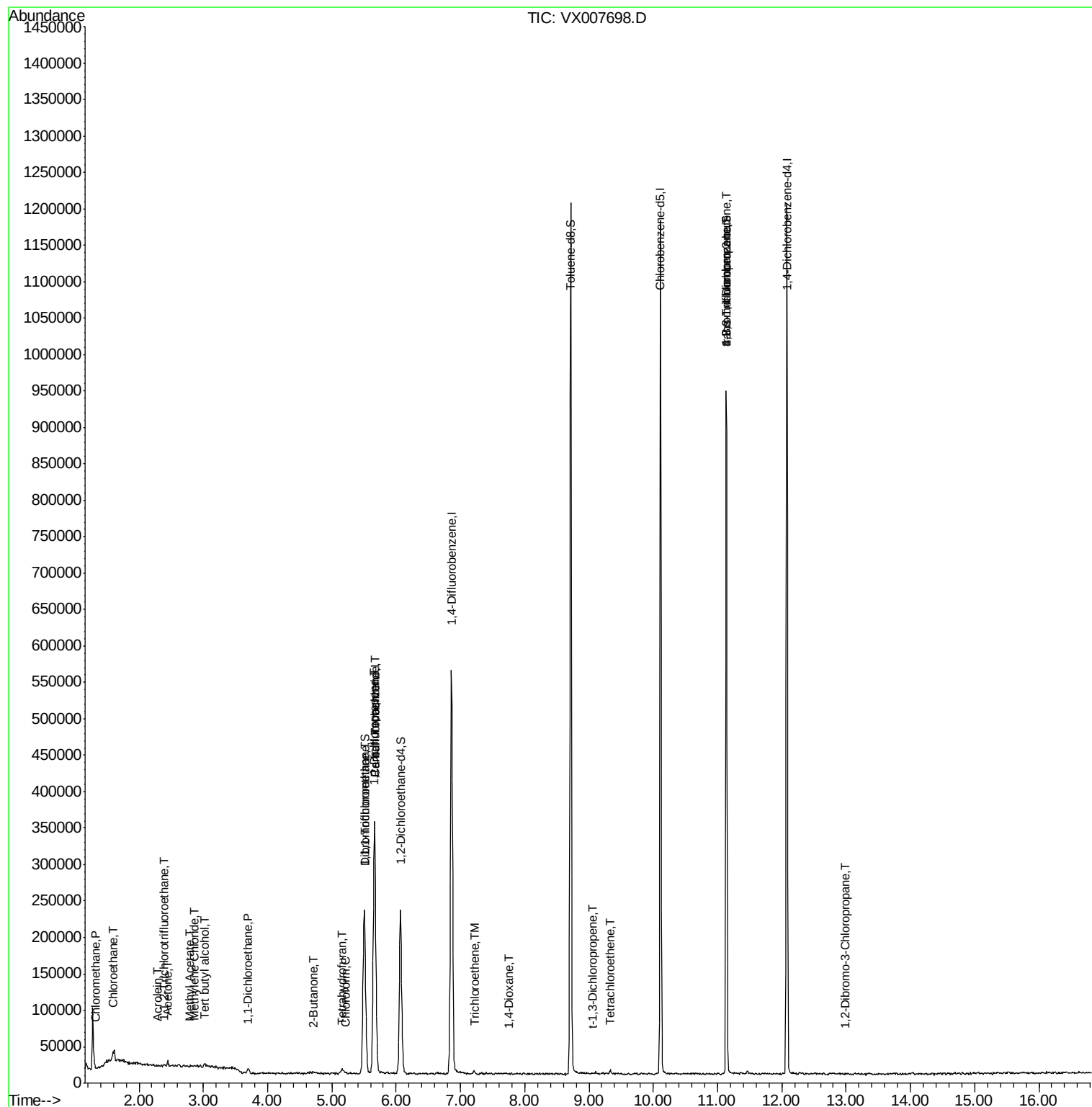
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	899	0.259	ug/l #	38
5) Bromomethane	1.64	94	236	Below Cal		95
6) Chloroethane	1.59	64	1721	0.755	ug/l #	51
9) 1,1,2-Trichlorotrifluoroet	2.39	101	1125	0.340	ug/l #	55
11) Tert butyl alcohol	3.02	59	4278	5.346	ug/l	99
13) Acrolein	2.29	56	285	0.401	ug/l #	14
16) Acetone	2.45	43	7439	3.966	ug/l	99
18) Methyl Acetate	2.78	43	1528	0.373	ug/l #	78
20) Methylene Chloride	2.85	84	1318	0.381	ug/l #	74
24) 1,1-Dichloroethane	3.70	63	6564	1.054	ug/l	96
25) 2-Butanone	4.71	43	4635	1.622	ug/l #	64
29) Tetrahydrofuran	5.15	42	5476	2.908	ug/l #	83
30) Chloroform	5.21	83	1528	0.229	ug/l	85
32) 1,1,1-Trichloroethane	5.50	97	3218	0.583	ug/l #	48
36) 1,1-Dichloropropene	5.65	75	23482	4.459	ug/l #	51
38) Carbon Tetrachloride	5.67	117	32513	6.147	ug/l #	17
44) Trichloroethene	7.21	130	1807	0.404	ug/l	81
49) 1,4-Dioxane	7.75	88	511	5.014	ug/l #	2
53) t-1,3-Dichloropropene	9.05	75	249	2.840	ug/l #	76
64) Tetrachloroethene	9.34	164	1005	0.225	ug/l #	78
76) 1,2,3-Trichloropropane	11.13	75	119124	22.295	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.13	75	119124	59.159	ug/l #	9
92) 1,2-Dibromo-3-Chloropropan	12.98	75	377	0.279	ug/l #	1

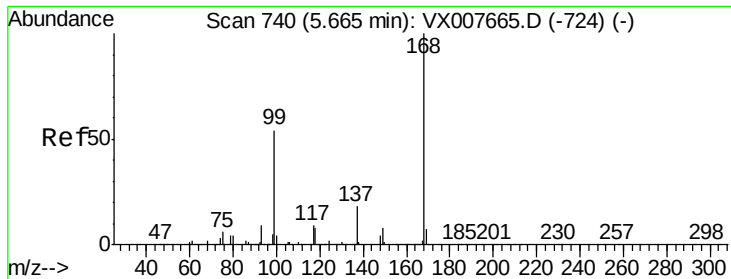
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Feb 26 11:20:58 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X022519W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 26 01:53:13 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.00 min

Lab File: VX007698.D

Acq: 26 Feb 2019 06:27

Instrument :

MSVOA_X

ClientSampleId :

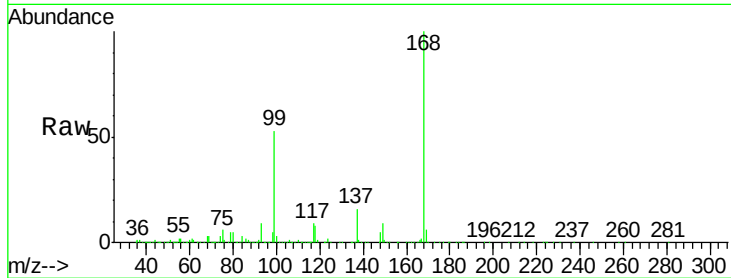
M1-T1-UV(PRE)

Tgt Ion:168 Resp: 340485

Ion Ratio Lower Upper

168 100

99 52.9 37.9 56.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

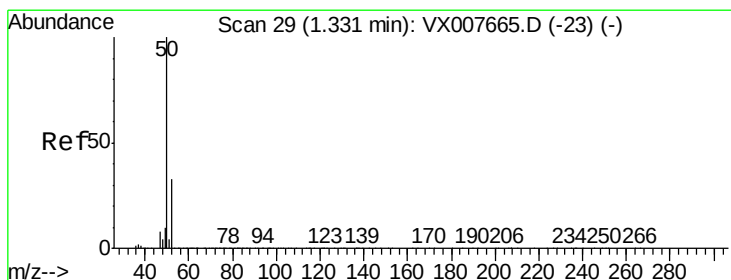
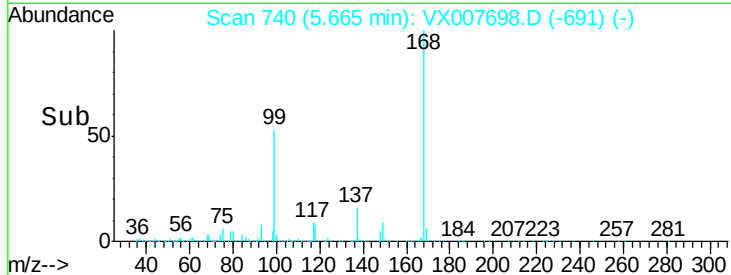
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 0.259 ug/l

RT: 1.33 min Scan# 29

Delta R.T. 0.00 min

Lab File: VX007698.D

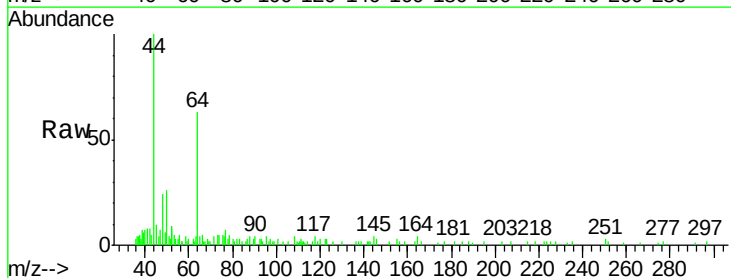
Acq: 26 Feb 2019 06:27

Tgt Ion: 50 Resp: 899

Ion Ratio Lower Upper

50 100

52 67.7 26.1 39.1#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.33

1200

1000

800

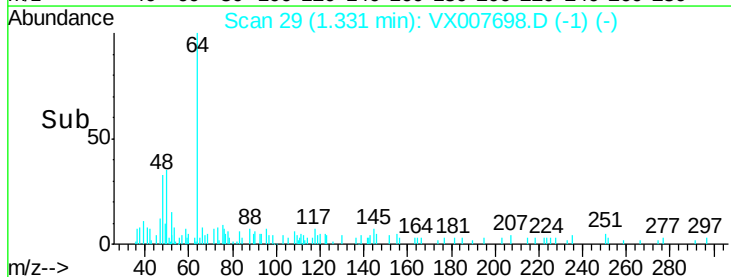
600

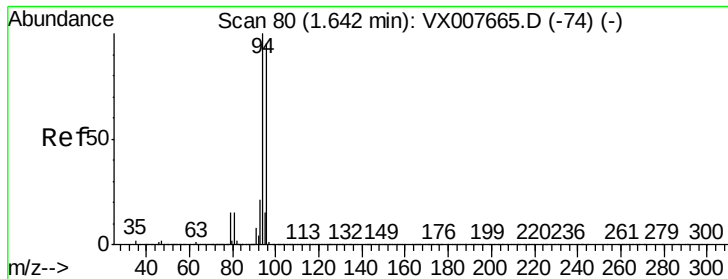
400

200

0

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 1.64 min Scan# 80

Delta R.T. 0.00 min

Lab File: VX007698.D

Acq: 26 Feb 2019 06:27

Instrument :

MSVOA_X

ClientSampleId :

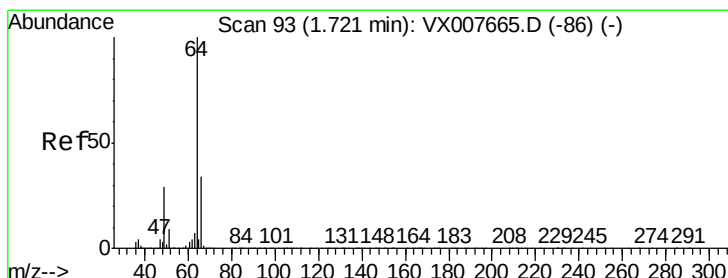
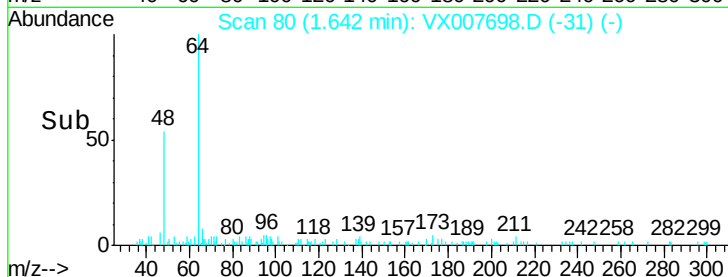
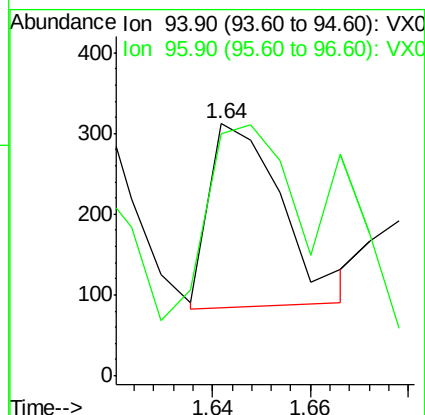
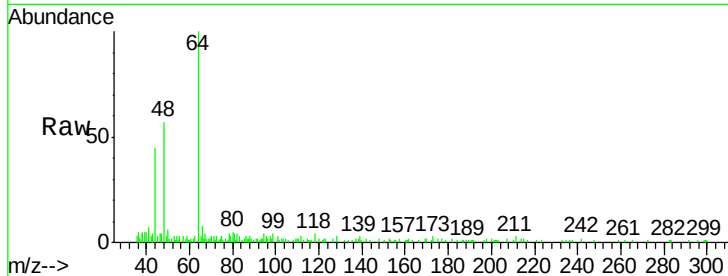
M1-T1-UV(PRE)

Tgt Ion: 94 Resp: 236

Ion Ratio Lower Upper

94 100

96 87.3 73.9 110.9



#6

Chloroethane

Concen: 0.755 ug/l

RT: 1.59 min Scan# 71

Delta R.T. -0.13 min

Lab File: VX007698.D

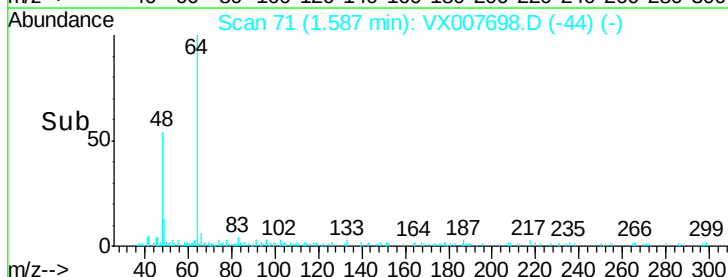
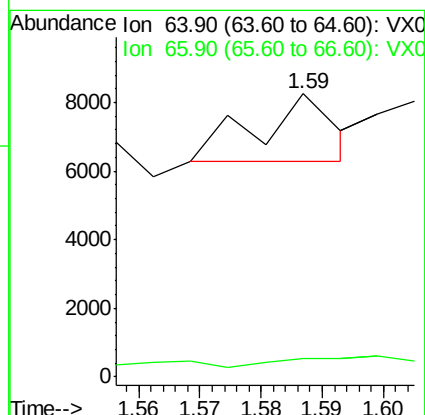
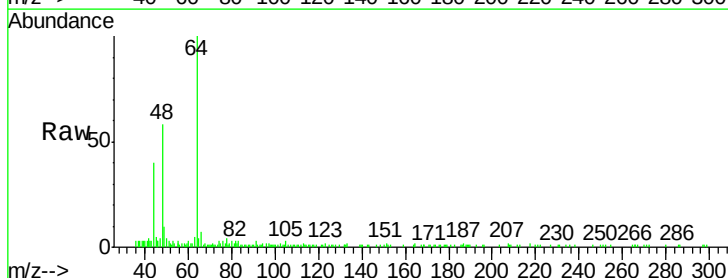
Acq: 26 Feb 2019 06:27

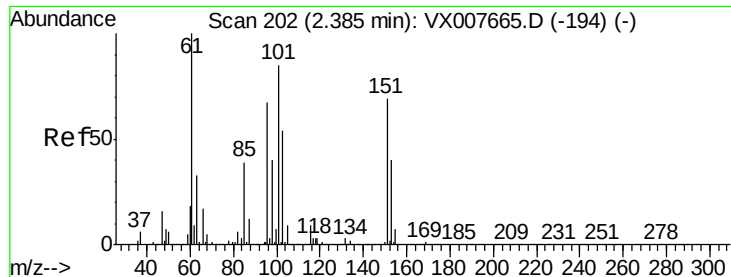
Tgt Ion: 64 Resp: 1721

Ion Ratio Lower Upper

64 100

66 4.8 25.5 38.3#





#9

1,1,2-Trichlorotrifluoroethane

Concen: 0.340 ug/l

RT: 2.39 min Scan# 203

Delta R.T. 0.01 min

Lab File: VX007698.D

Acq: 26 Feb 2019 06:27

Instrument :

MSVOA_X

ClientSampleId :

M1-T1-UV(PRE)

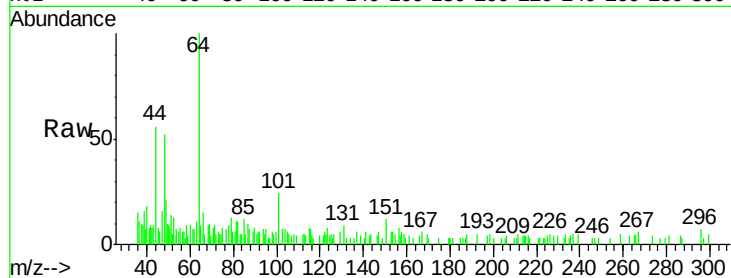
Tgt Ion:101 Resp: 1125

Ion Ratio Lower Upper

101 100

85 61.2 34.1 51.1#

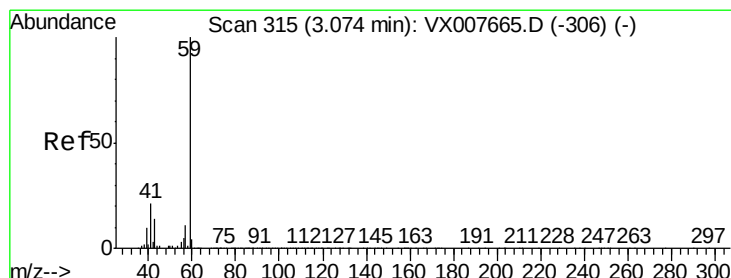
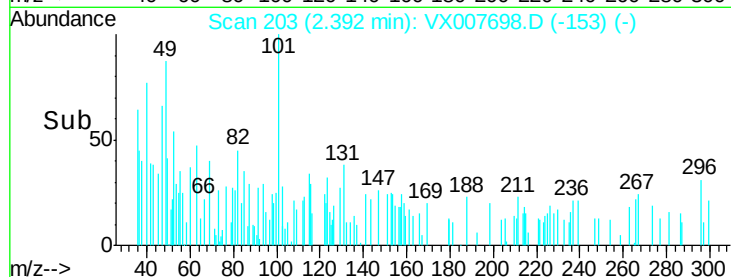
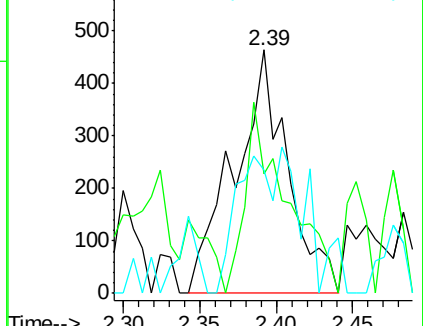
151 38.0 69.9 104.9#



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: 5.346 ug/l

RT: 3.02 min Scan# 306

Delta R.T. -0.05 min

Lab File: VX007698.D

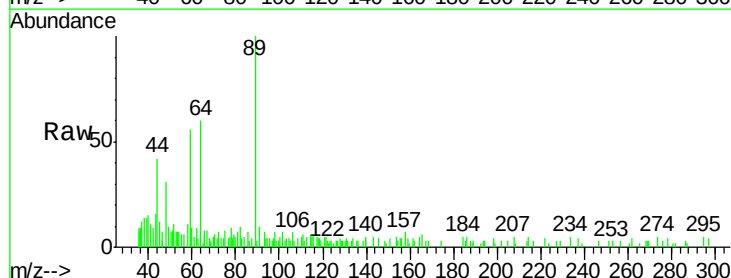
Acq: 26 Feb 2019 06:27

Tgt Ion: 59 Resp: 4278

Ion Ratio Lower Upper

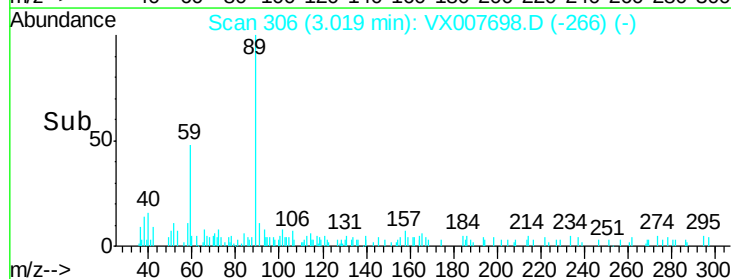
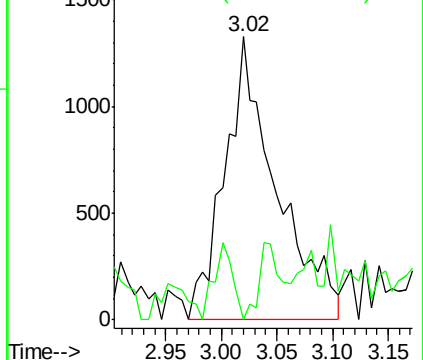
59 100

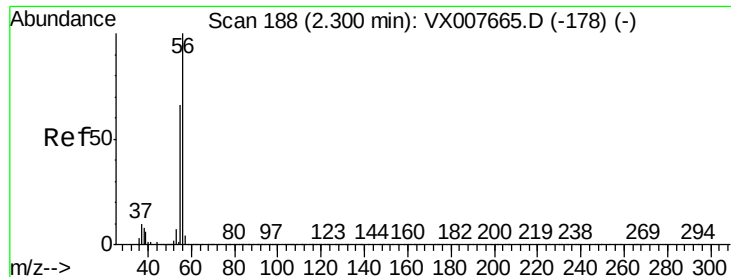
57 9.8 8.1 12.1



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: 0.401 ug/l

RT: 2.29 min Scan# 186

Delta R.T. -0.01 min

Lab File: VX007698.D

Acq: 26 Feb 2019 06:27

Instrument :

MSVOA_X

ClientSampleId :

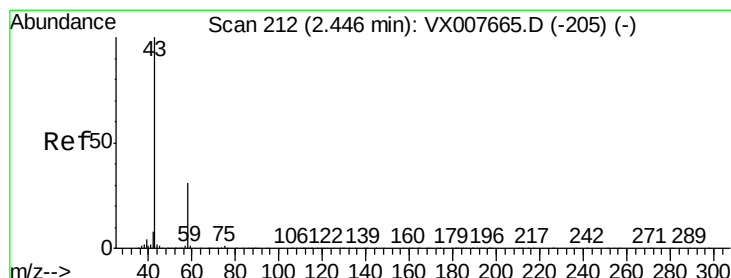
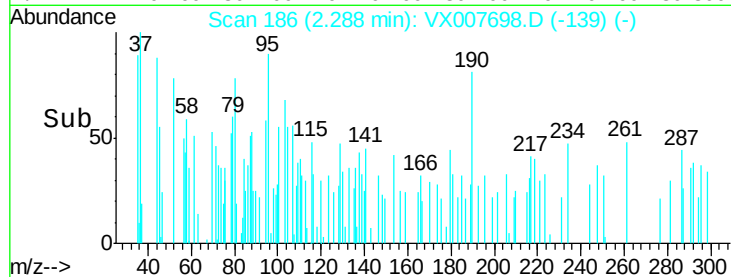
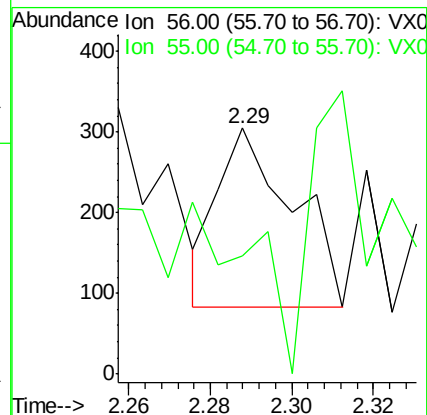
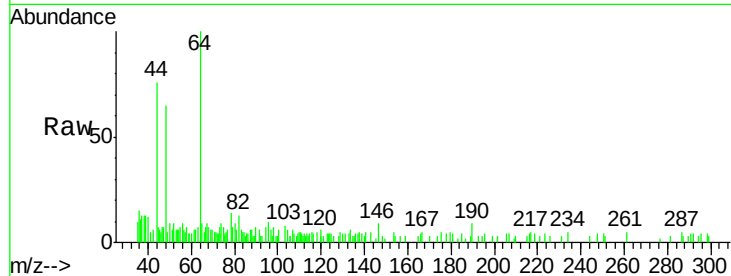
M1-T1-UV(PRE)

Tgt Ion: 56 Resp: 285

Ion Ratio Lower Upper

56 100

55 0.0 56.9 85.3#



#16

Acetone

Concen: 3.966 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX007698.D

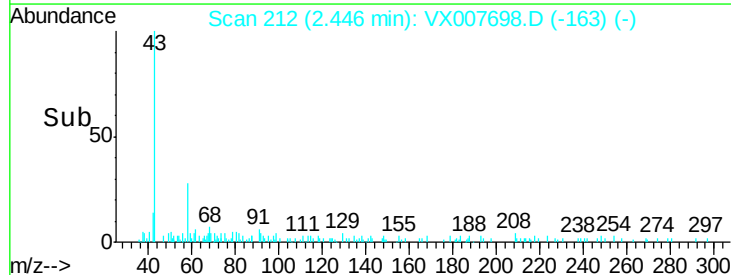
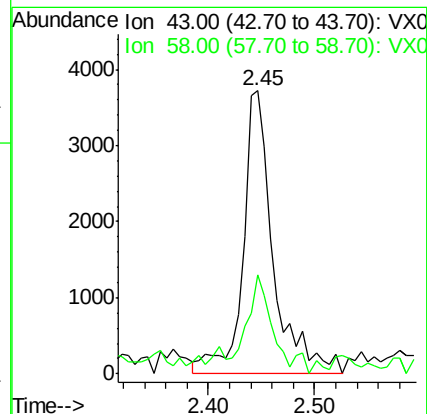
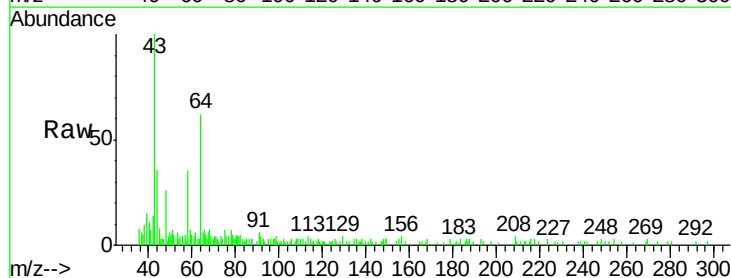
Acq: 26 Feb 2019 06:27

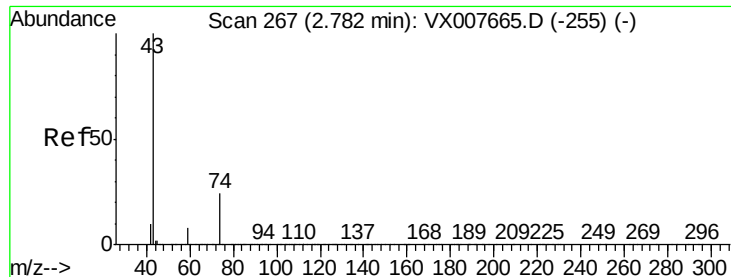
Tgt Ion: 43 Resp: 7439

Ion Ratio Lower Upper

43 100

58 30.8 24.9 37.3

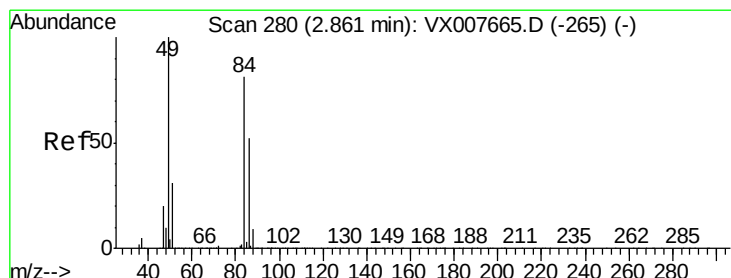
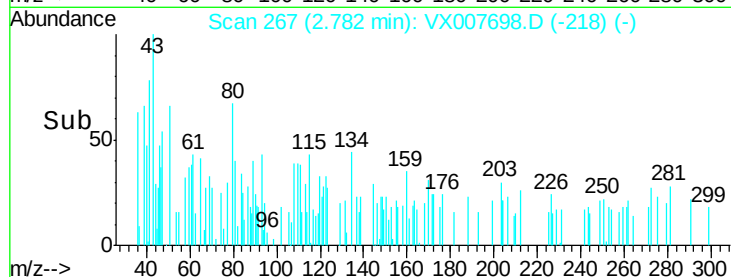
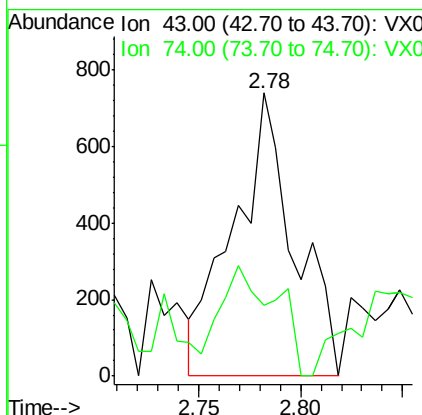
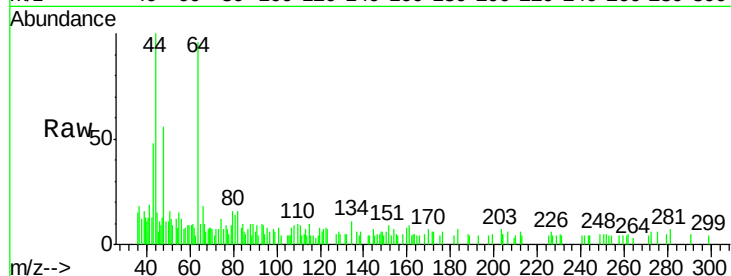




#18
Methyl Acetate
Concen: 0.373 ug/l
RT: 2.78 min Scan# 267
Delta R.T. 0.00 min
Lab File: VX007698.D
Acq: 26 Feb 2019 06:27

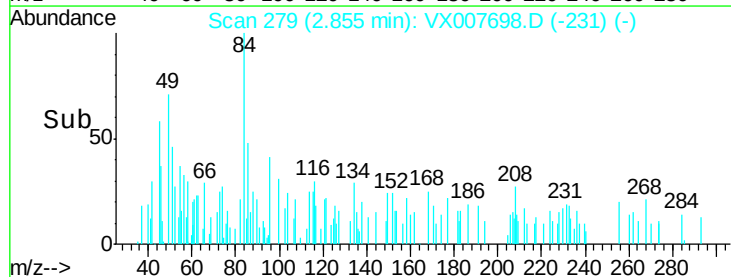
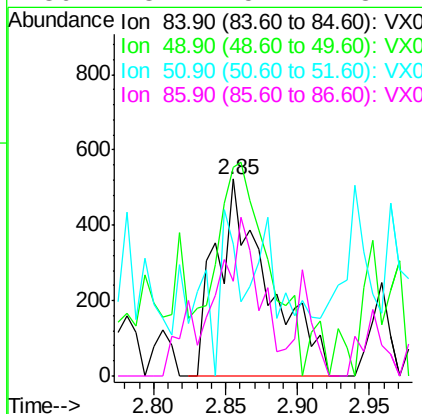
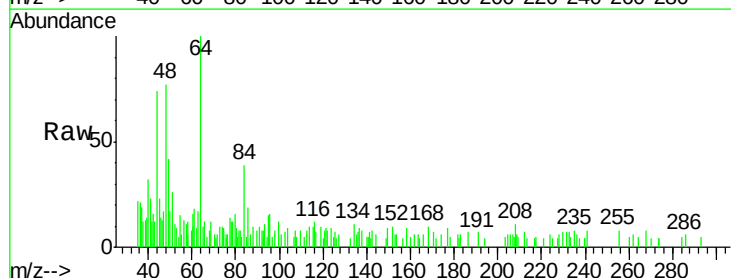
Instrument :
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ClientSampleId :
M1-T1-UV(PRE)

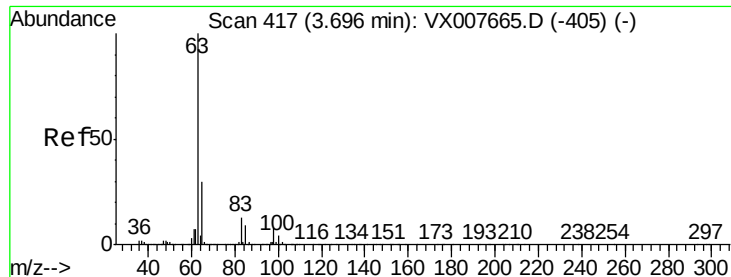
Tgt Ion: 43 Resp: 1528
Ion Ratio Lower Upper
43 100
74 35.4 19.4 29.2#



#20
Methylene Chloride
Concen: 0.381 ug/l
RT: 2.85 min Scan# 279
Delta R.T. -0.01 min
Lab File: VX007698.D
Acq: 26 Feb 2019 06:27

Tgt Ion: 84 Resp: 1318
Ion Ratio Lower Upper
84 100
49 81.6 94.8 142.2#
51 40.7 29.8 44.8
86 48.2 54.1 81.1#





#24

1,1-Dichloroethane

Concen: 1.054 ug/l

RT: 3.70 min Scan# 417

Delta R.T. 0.00 min

Lab File: VX007698.D

Acq: 26 Feb 2019 06:27

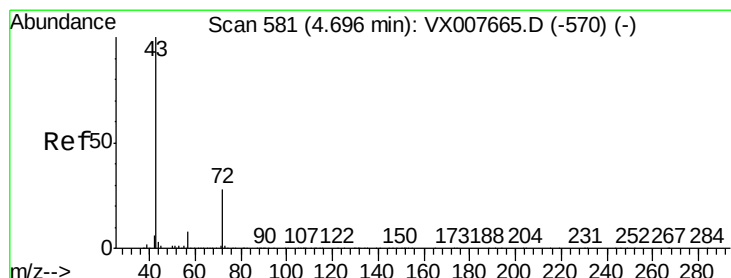
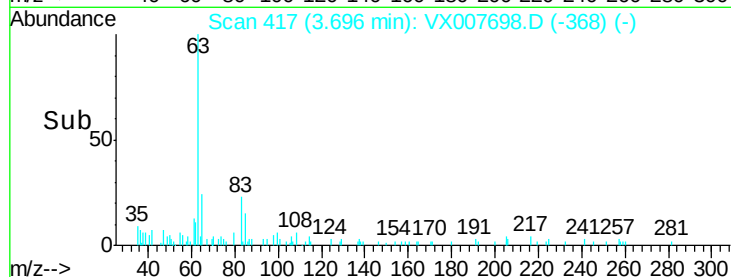
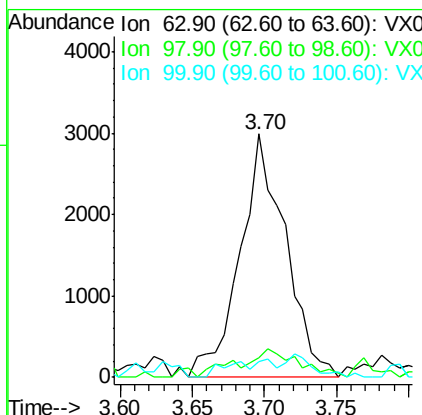
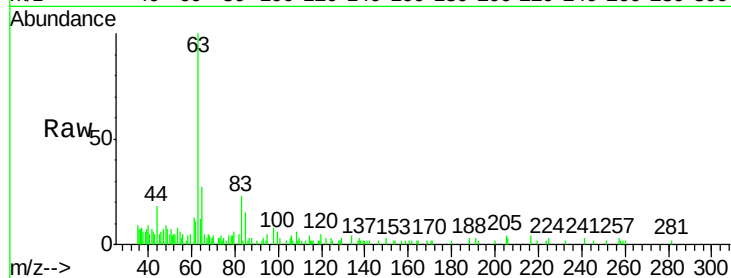
Instrument :

MSVOA_X

ClientSampleId :

M1-T1-UV(PRE)

Tgt Ion:	63	Resp:	6564
Ion	Ratio	Lower	Upper
63	100		
98	6.2	3.6	10.8
100	6.5	2.5	7.4



#25

2-Butanone

Concen: 1.622 ug/l

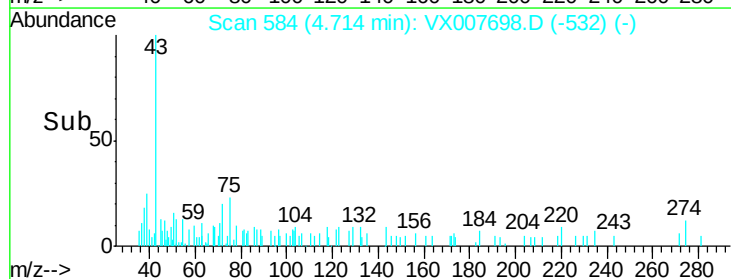
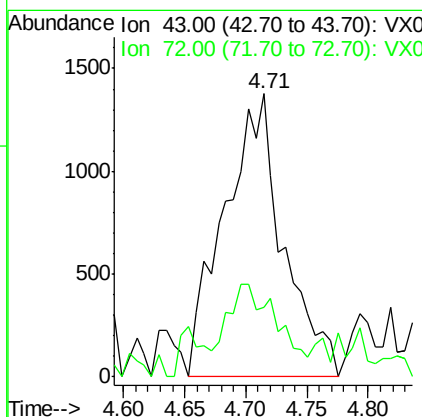
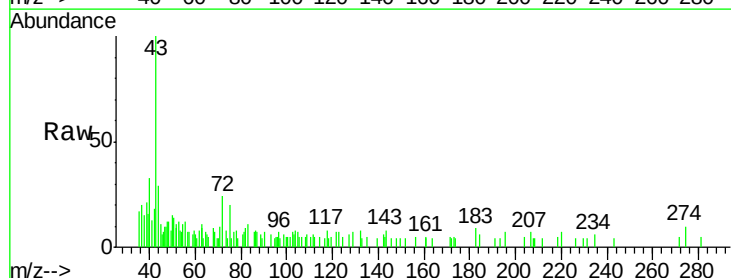
RT: 4.71 min Scan# 584

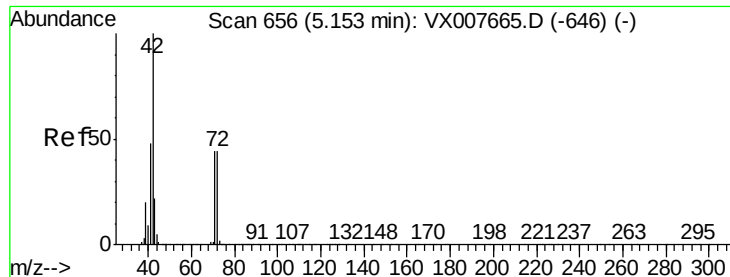
Delta R.T. 0.02 min

Lab File: VX007698.D

Acq: 26 Feb 2019 06:27

Tgt Ion:	43	Resp:	4635
Ion	Ratio	Lower	Upper
43	100		
72	9.0	22.2	33.2#





#29

Tetrahydrofuran

Concen: 2.908 ug/l

RT: 5.15 min Scan# 655

Delta R.T. -0.01 min

Lab File: VX007698.D

Acq: 26 Feb 2019 06:27

Instrument :

MSVOA_X

ClientSampleId :

M1-T1-UV(PRE)

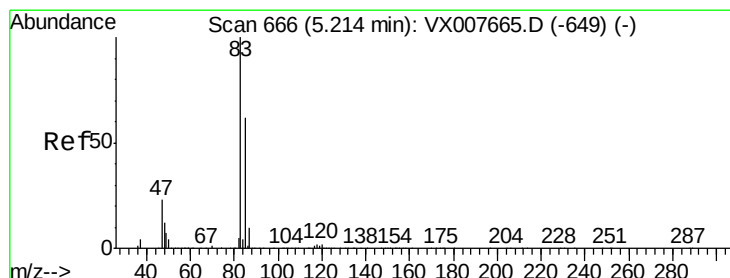
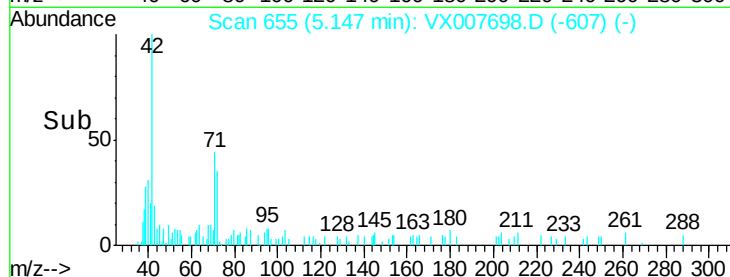
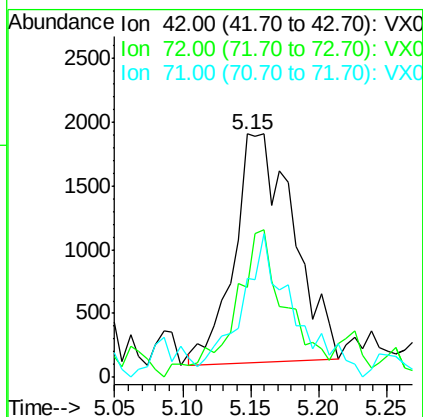
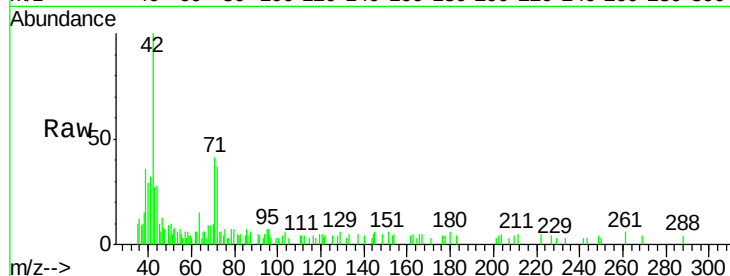
Tgt Ion: 42 Resp: 5476

Ion Ratio Lower Upper

42 100

72 56.6 37.6 56.4#

71 55.5 34.6 51.8#



#30

Chloroform

Concen: 0.229 ug/l

RT: 5.21 min Scan# 666

Delta R.T. 0.00 min

Lab File: VX007698.D

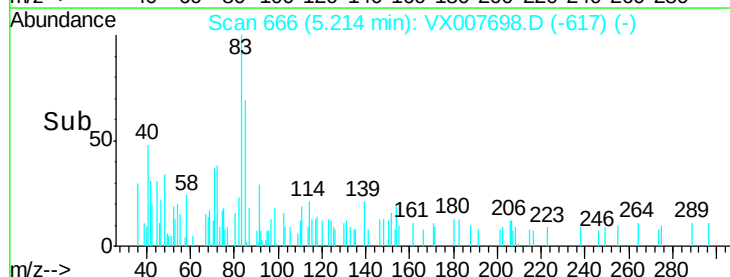
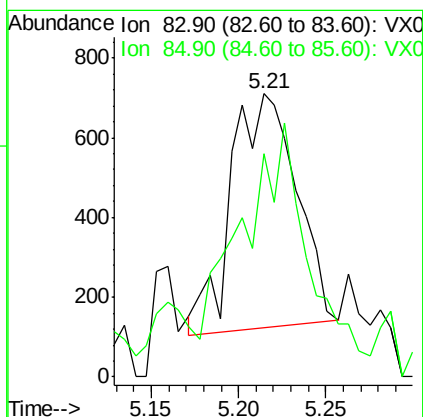
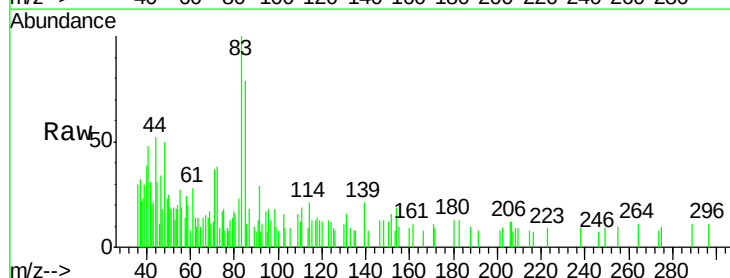
Acq: 26 Feb 2019 06:27

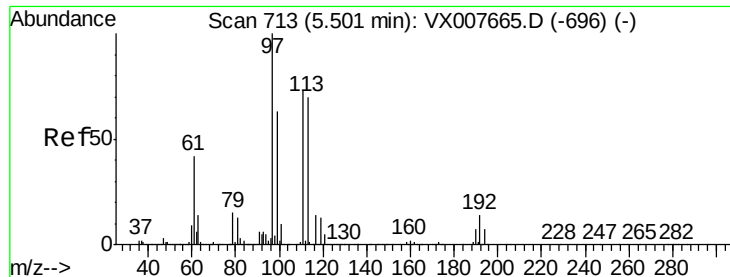
Tgt Ion: 83 Resp: 1528

Ion Ratio Lower Upper

83 100

85 76.5 51.6 77.4





#32

1,1,1-Trichloroethane

Concen: 0.583 ug/l

RT: 5.50 min Scan# 713

Delta R.T. 0.00 min

Lab File: VX007698.D

Acq: 26 Feb 2019 06:27

Instrument :

MSVOA_X

ClientSampleId :

M1-T1-UV(PRE)

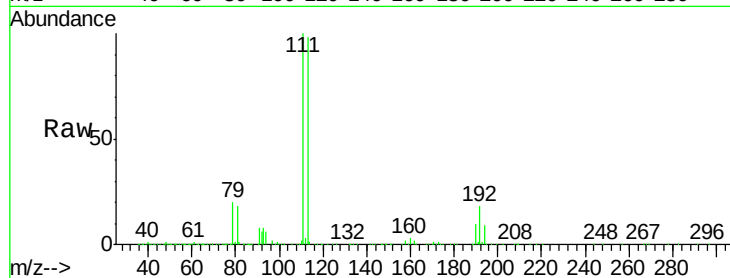
Tgt Ion: 97 Resp: 3218

Ion Ratio Lower Upper

97 100

99 0.0 52.2 78.2#

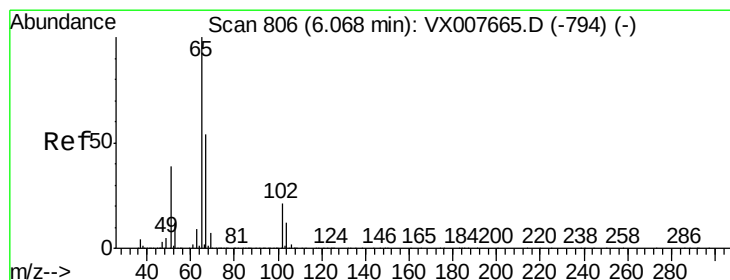
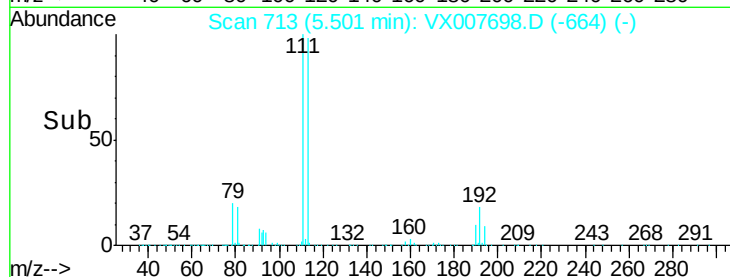
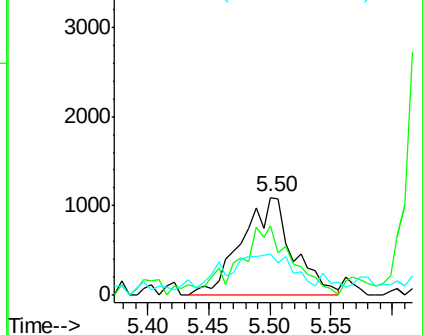
61 39.4 32.7 49.1



Abundance Ion 96.90 (96.60 to 97.60): VX0

Ion 98.90 (98.60 to 99.60): VX0

Ion 60.90 (60.60 to 61.60): VX0



#33

1,2-Dichloroethane-d4

Concen: 49.861 ug/l

RT: 6.07 min Scan# 806

Delta R.T. 0.00 min

Lab File: VX007698.D

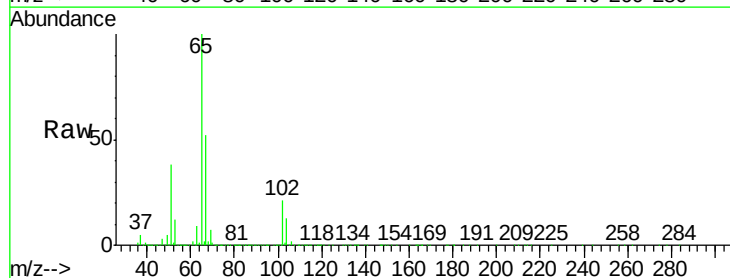
Acq: 26 Feb 2019 06:27

Tgt Ion: 65 Resp: 210290

Ion Ratio Lower Upper

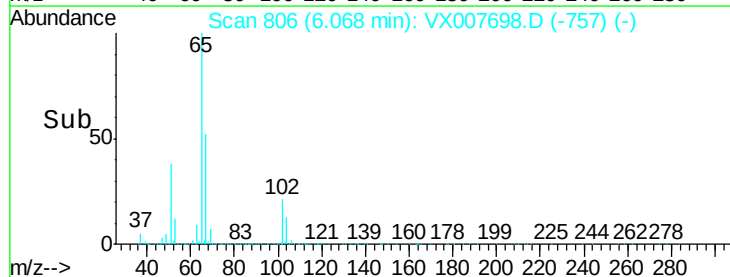
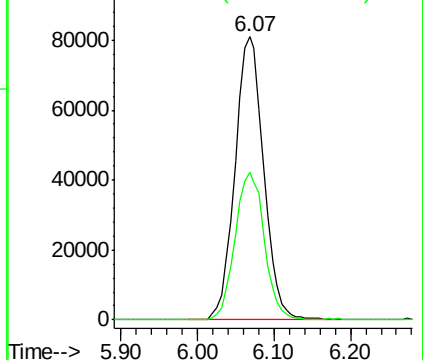
65 100

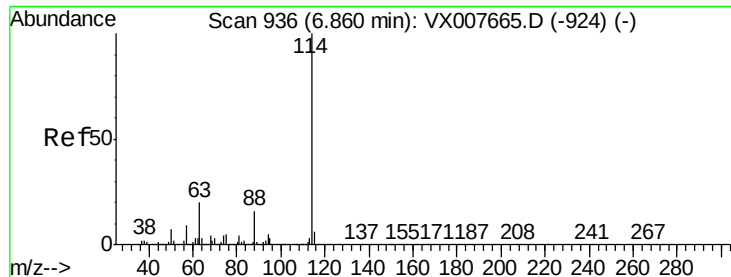
67 52.8 0.0 108.8



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: VX007698.D

Acq: 26 Feb 2019 06:27

Instrument :

MSVOA_X

ClientSampleId :

M1-T1-UV(PRE)

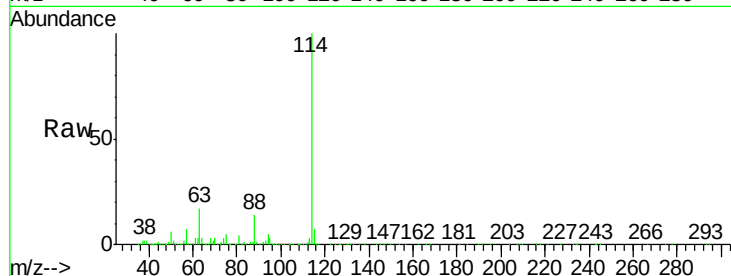
Tgt Ion:114 Resp: 585701

Ion Ratio Lower Upper

114 100

63 17.3 0.0 35.6

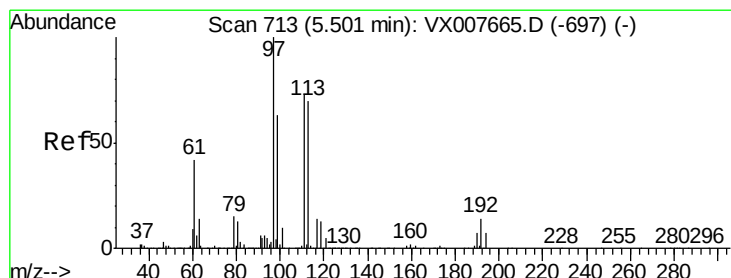
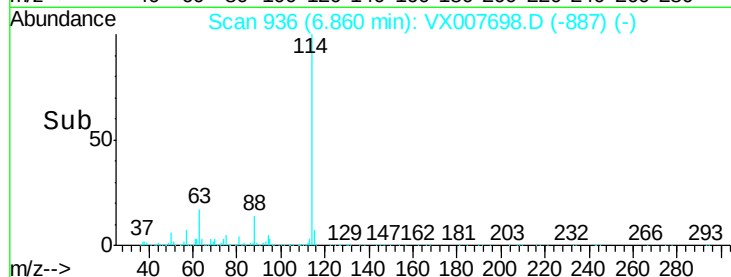
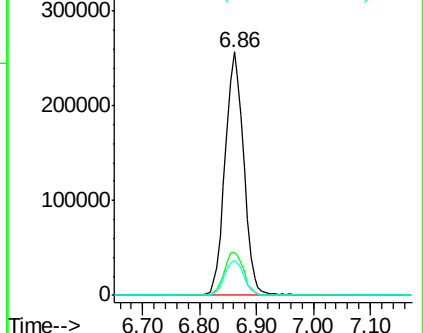
88 14.4 0.0 29.6



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: 49.189 ug/l

RT: 5.51 min Scan# 714

Delta R.T. 0.01 min

Lab File: VX007698.D

Acq: 26 Feb 2019 06:27

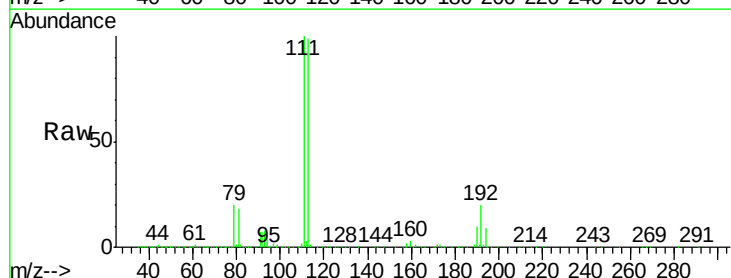
Tgt Ion:113 Resp: 192586

Ion Ratio Lower Upper

113 100

111 101.8 81.8 122.8

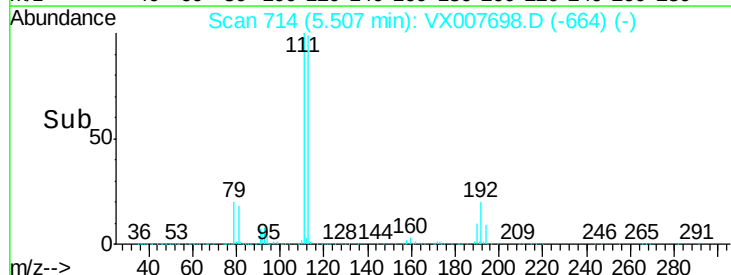
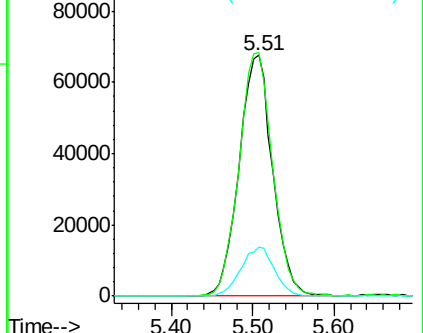
192 20.4 18.5 27.7

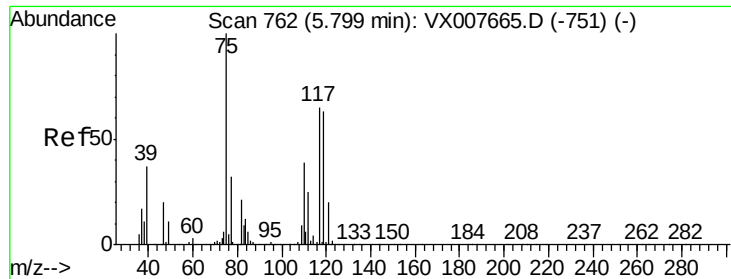


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.459 ug/l

RT: 5.65 min Scan# 738

Delta R.T. -0.15 min

Lab File: VX007698.D

Acq: 26 Feb 2019 06:27

Instrument :

MSVOA_X

ClientSampleId :

M1-T1-UV(PRE)

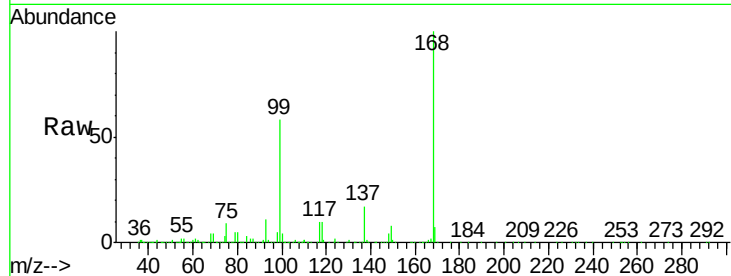
Tgt Ion: 75 Resp: 23482

Ion Ratio Lower Upper

75 100

110 12.5 20.0 59.9#

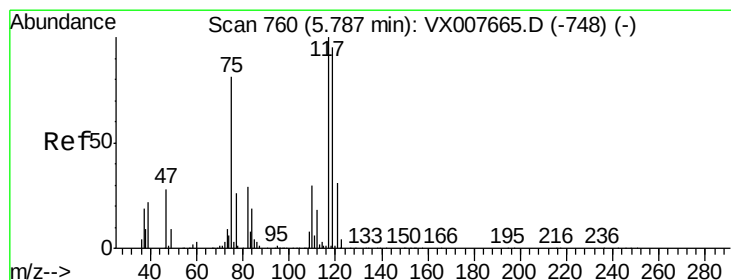
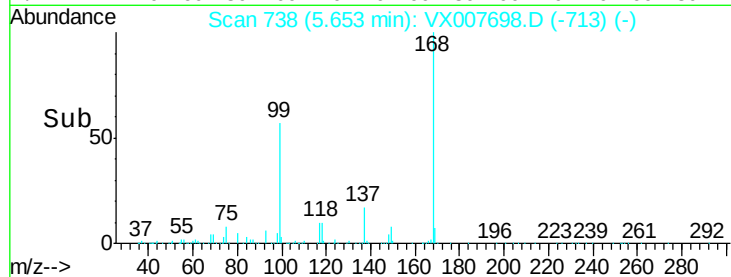
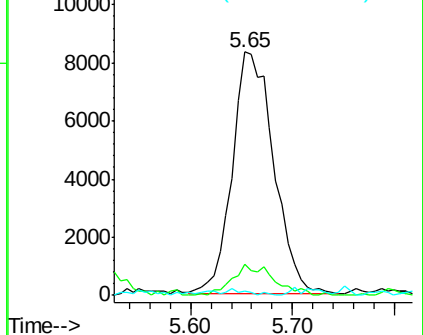
77 1.1 24.7 37.1#



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: 6.147 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX007698.D

Acq: 26 Feb 2019 06:27

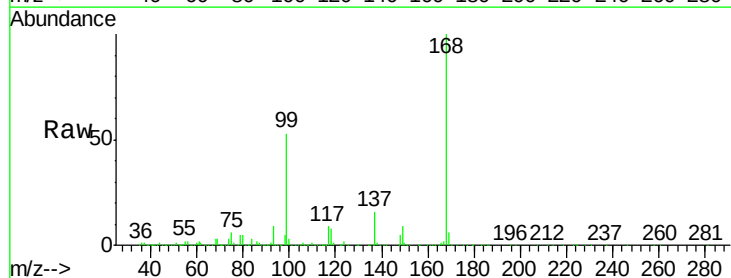
Tgt Ion: 117 Resp: 32513

Ion Ratio Lower Upper

117 100

119 5.0 75.3 112.9#

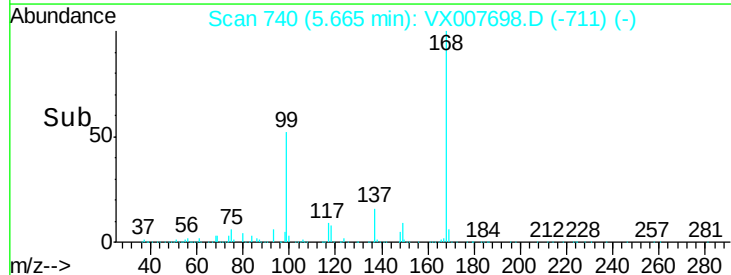
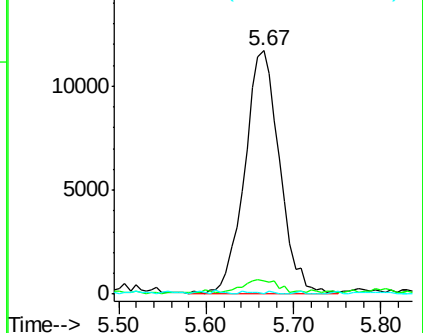
121 0.0 25.0 37.4#

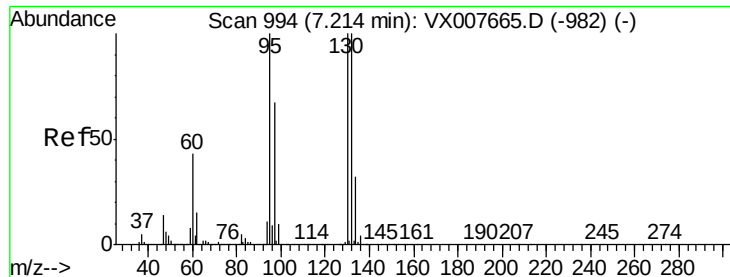


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#44

Trichloroethene

Concen: 0.404 ug/l

RT: 7.21 min Scan# 994

Delta R.T. 0.00 min

Lab File: VX007698.D

Acq: 26 Feb 2019 06:27

Instrument :

MSVOA_X

ClientSampleId :

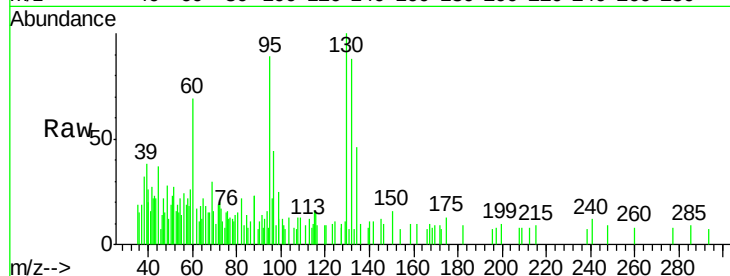
M1-T1-UV(PRE)

Tgt Ion:130 Resp: 1807

Ion Ratio Lower Upper

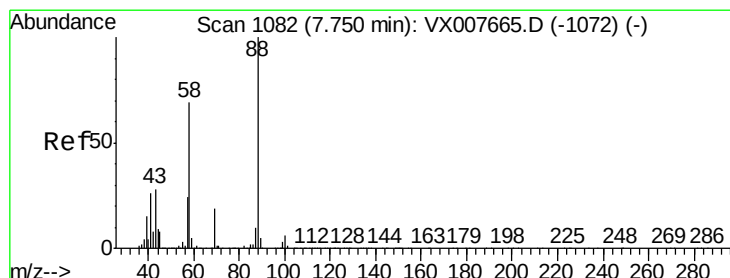
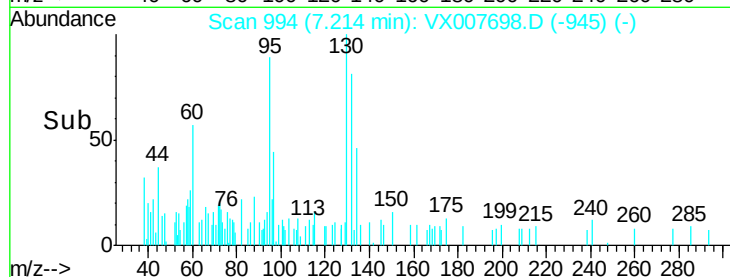
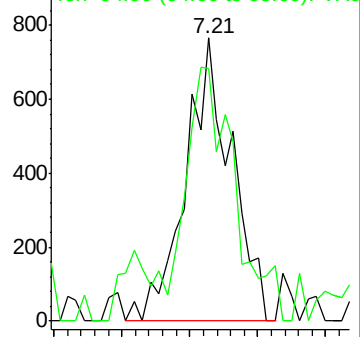
130 100

95 72.3 0.0 180.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0



#49

1,4-Dioxane

Concen: 5.014 ug/l

RT: 7.75 min Scan# 1082

Delta R.T. 0.00 min

Lab File: VX007698.D

Acq: 26 Feb 2019 06:27

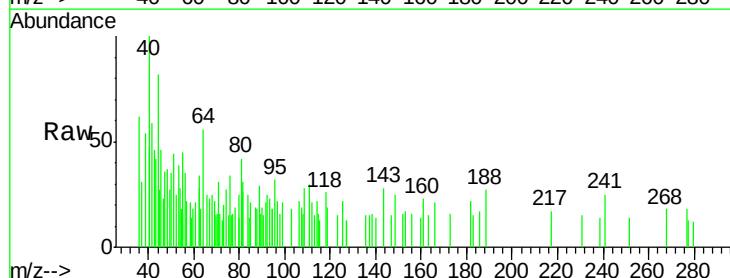
Tgt Ion: 88 Resp: 511

Ion Ratio Lower Upper

88 100

43 100.6 24.2 36.4#

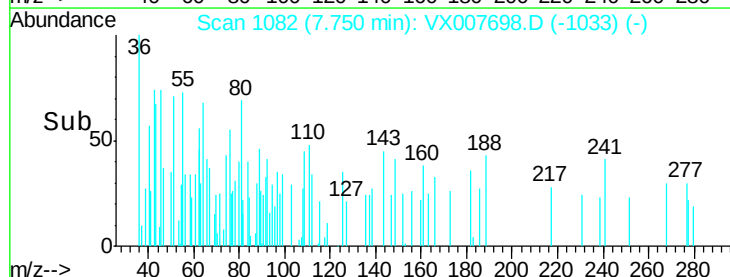
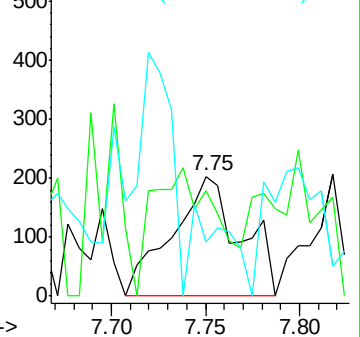
58 0.0 53.0 79.4#

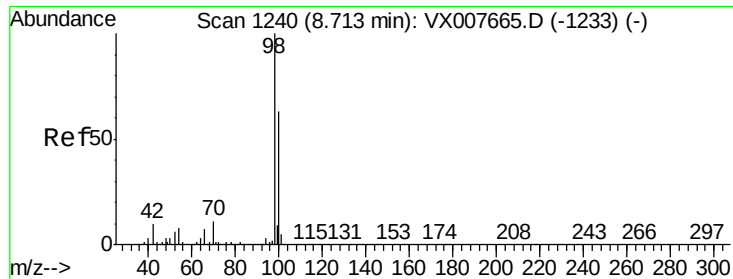


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

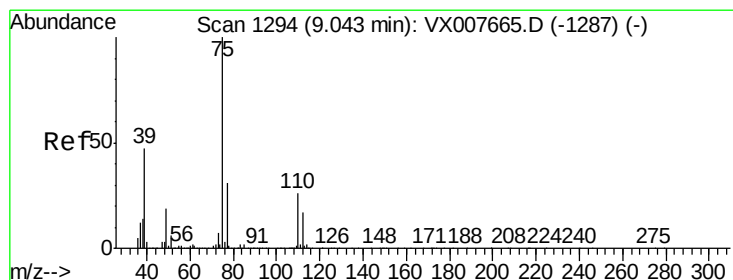
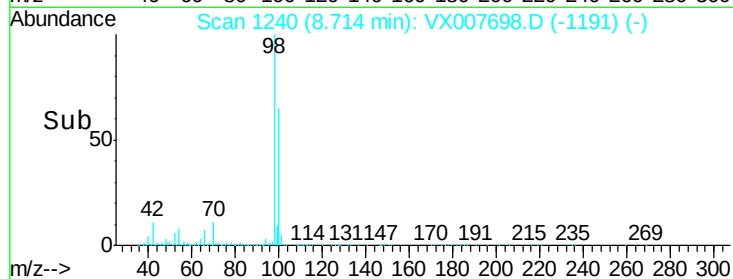
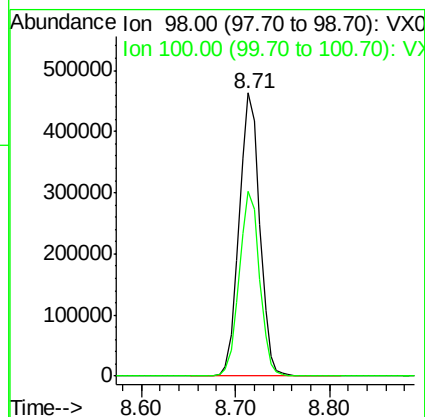
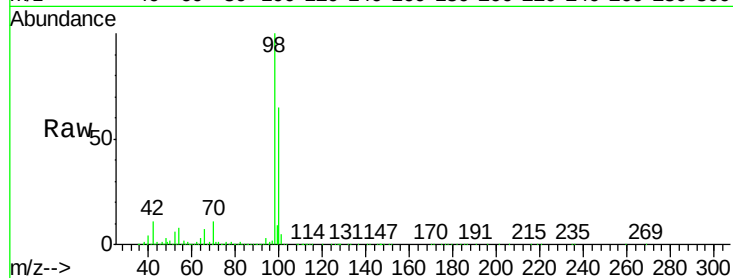




#50
Toluene-d8
Concen: 46.930 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. 0.00 min
Lab File: VX007698.D
Acq: 26 Feb 2019 06:27

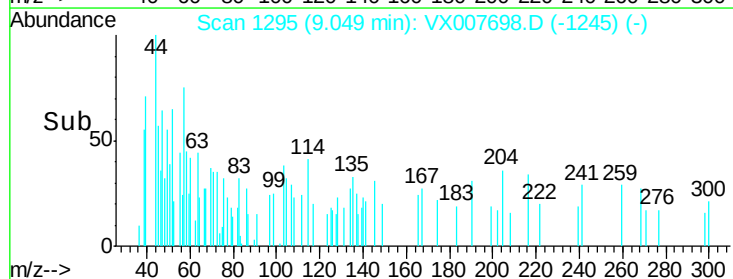
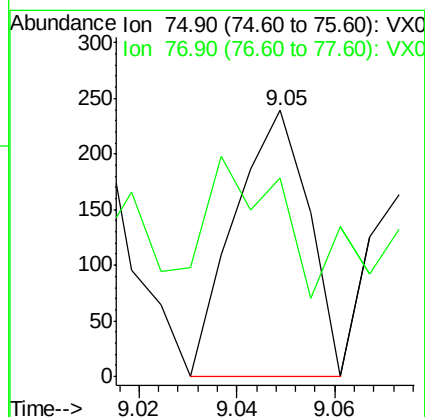
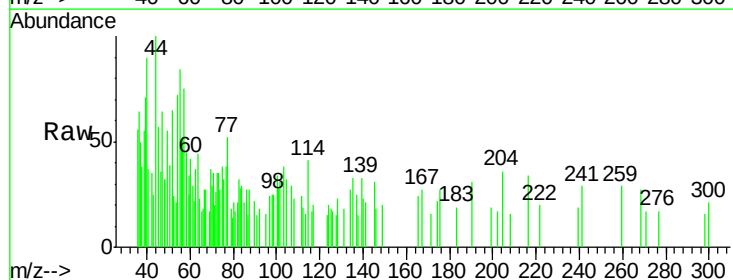
Instrument :
MSVOA_X
ClientSampleId :
M1-T1-UV(PRE)

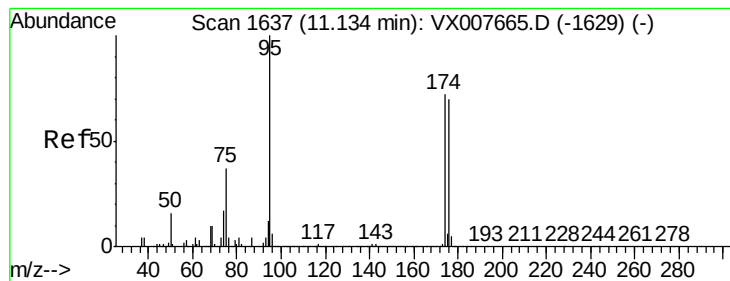
Tgt Ion: 98 Resp: 703426
Ion Ratio Lower Upper
98 100
100 64.7 51.6 77.4



#53
t-1,3-Dichloropropene
Concen: 2.840 ug/l
RT: 9.05 min Scan# 1295
Delta R.T. 0.01 min
Lab File: VX007698.D
Acq: 26 Feb 2019 06:27

Tgt Ion: 75 Resp: 249
Ion Ratio Lower Upper
75 100
77 18.4 25.2 37.8#





#62

4-Bromofluorobenzene

Concen: 44.534 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX007698.D

Acq: 26 Feb 2019 06:27

Instrument :

MSVOA_X

ClientSampleId :

M1-T1-UV(PRE)

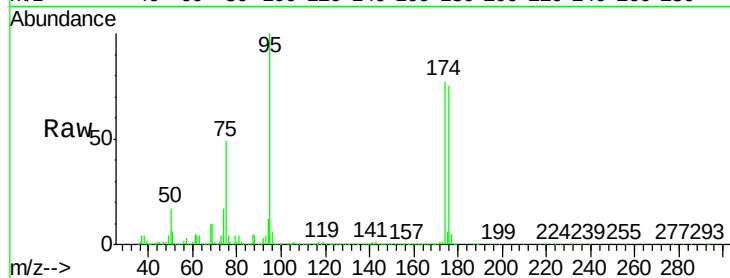
Tgt Ion: 95 Resp: 245005

Ion Ratio Lower Upper

95 100

174 86.6 0.0 189.2

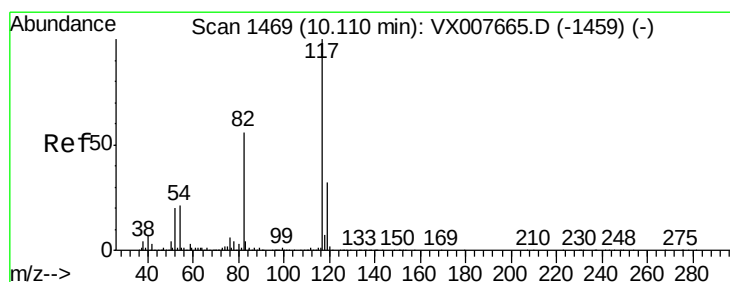
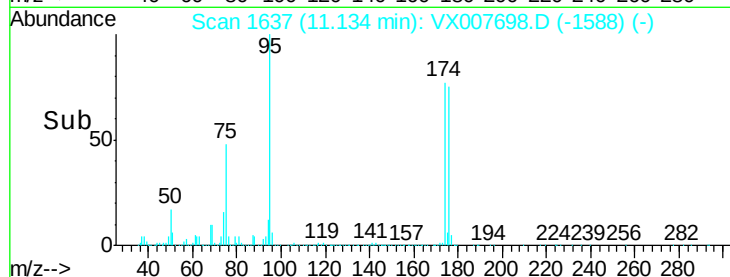
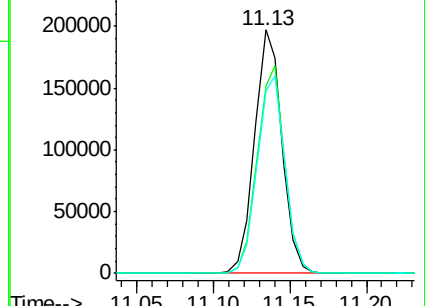
176 83.0 0.0 186.2



Abundance Ion 94.90 (94.60 to 95.60): VX007665.D (-1629) (-)

Ion 173.80 (173.50 to 174.50): VX007665.D (-1629) (-)

Ion 175.80 (175.50 to 176.50): VX007665.D (-1629) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. 0.00 min

Lab File: VX007698.D

Acq: 26 Feb 2019 06:27

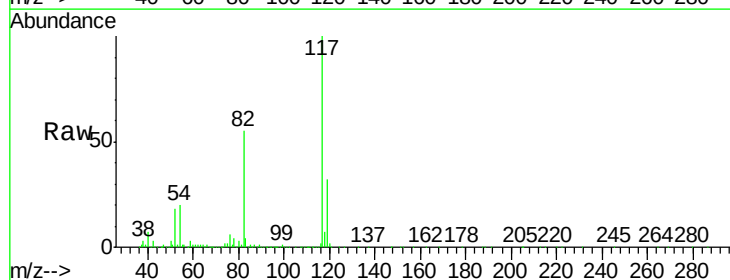
Tgt Ion: 117 Resp: 550642

Ion Ratio Lower Upper

117 100

82 54.6 42.1 63.1

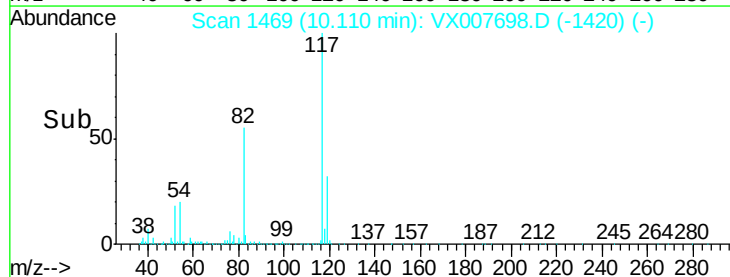
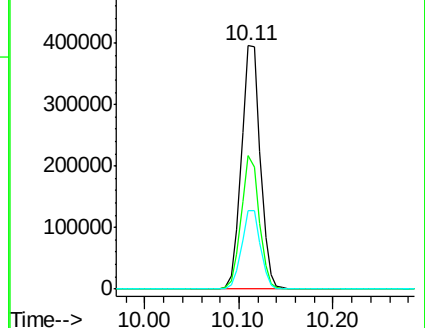
119 32.5 26.5 39.7

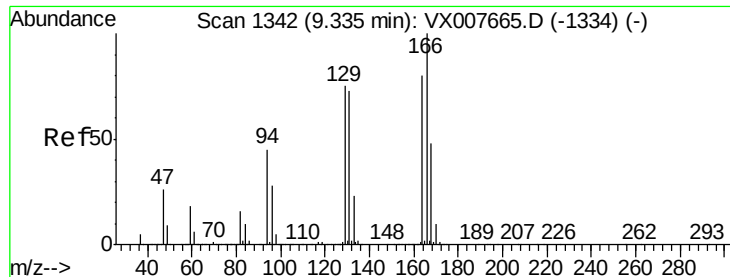


Abundance Ion 116.90 (116.60 to 117.60): VX007665.D (-1459) (-)

Ion 82.00 (81.70 to 82.70): VX007665.D (-1459) (-)

Ion 118.90 (118.60 to 119.60): VX007665.D (-1459) (-)





#64

Tetrachloroethene

Concen: 0.225 ug/l

RT: 9.34 min Scan# 1342

Delta R.T. 0.00 min

Lab File: VX007698.D

Acq: 26 Feb 2019 06:27

Instrument :

MSVOA_X

ClientSampleId :

M1-T1-UV(PRE)

Tgt Ion:164 Resp: 1005

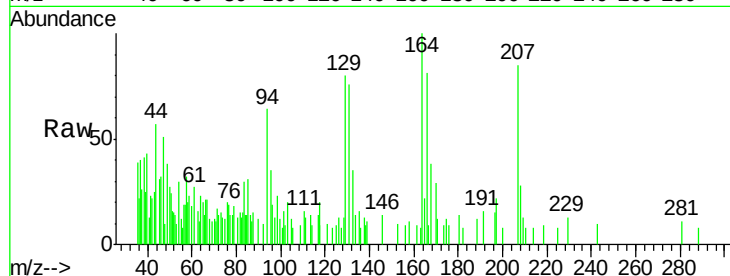
Ion Ratio Lower Upper

164 100

166 81.5 101.0 151.4#

129 79.9 70.5 105.7

131 75.9 69.8 104.6

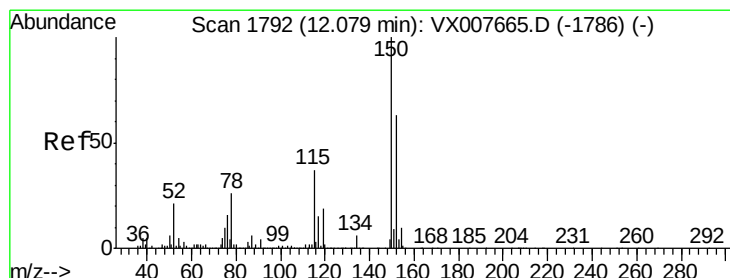
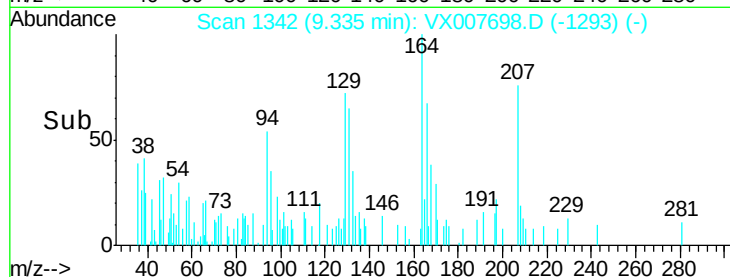
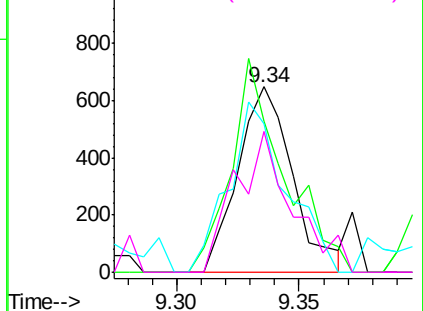


Abundance Ion 163.80 (163.50 to 164.50): V

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: VX007698.D

Acq: 26 Feb 2019 06:27

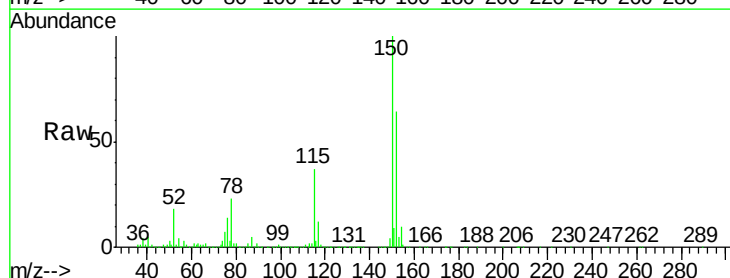
Tgt Ion:152 Resp: 250662

Ion Ratio Lower Upper

152 100

115 56.8 38.0 114.0

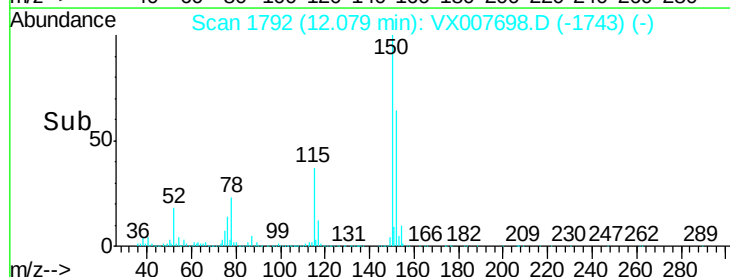
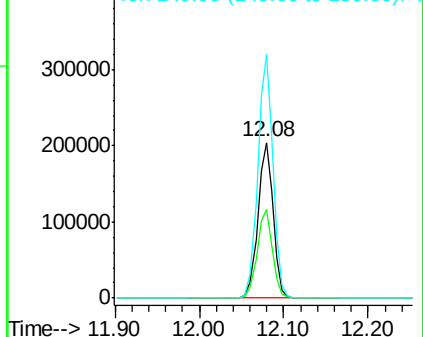
150 155.7 0.0 346.4

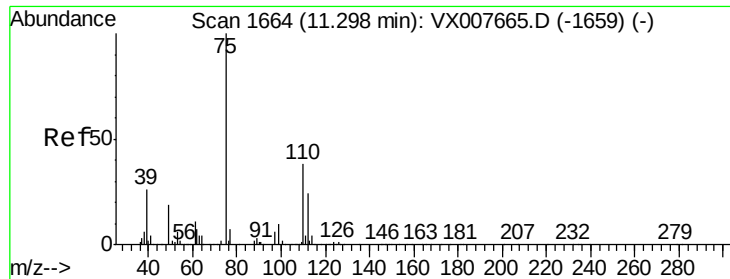


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 22.295 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX007698.D

Acq: 26 Feb 2019 06:27

Instrument :

MSVOA_X

ClientSampleId :

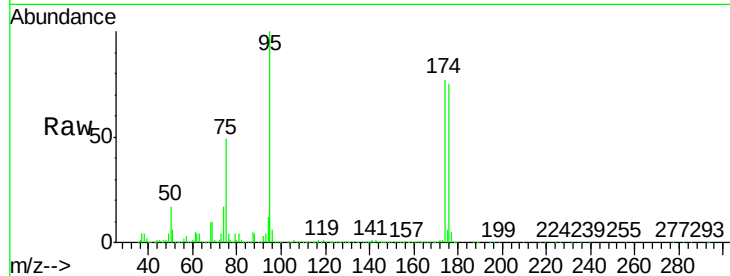
M1-T1-UV(PRE)

Tgt Ion: 75 Resp: 119124

Ion Ratio Lower Upper

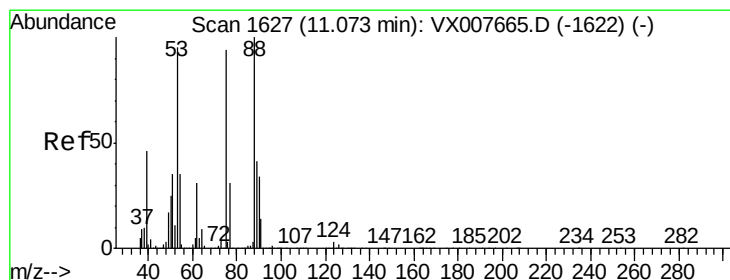
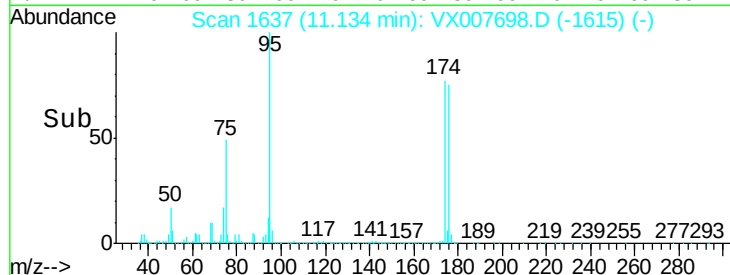
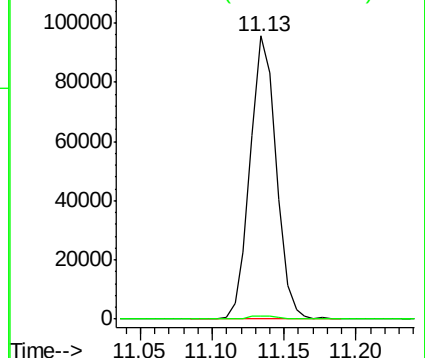
75 100

77 1.6 23.0 69.0#



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: 59.159 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX007698.D

Acq: 26 Feb 2019 06:27

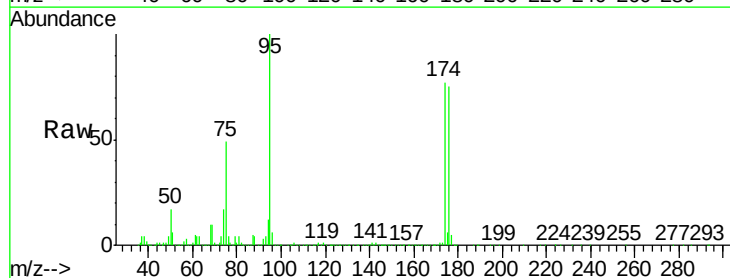
Tgt Ion: 75 Resp: 119124

Ion Ratio Lower Upper

75 100

53 0.1 81.0 121.6#

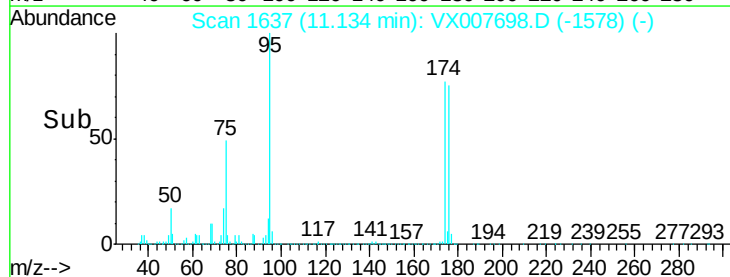
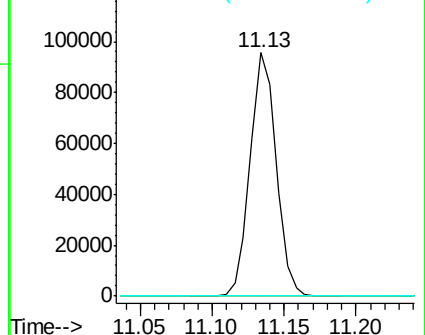
89 0.0 41.4 62.0#

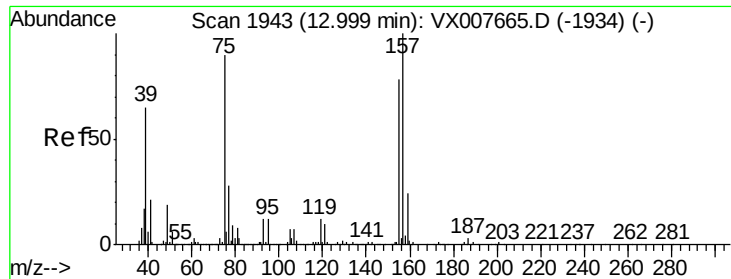


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0





#92

1,2-Dibromo-3-Chloropropane

Concen: 0.279 ug/l

RT: 12.98 min Scan# 1940

Delta R.T. -0.02 min

Lab File: VX007698.D

Acq: 26 Feb 2019 06:27

Instrument :

MSVOA_X

ClientSampleId :

M1-T1-UV(PRE)

Tgt Ion: 75 Resp: 377

Ion Ratio Lower Upper

75 100

155 16.7 49.6 149.0#

157 0.0 65.1 195.3#

