

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX022519\
 Data File : VX007702.D
 Acq On : 26 Feb 2019 08:14
 Operator : JC/SP
 Sample : K1603-16
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 44 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 M2-T3-UV(PRE)

Quant Time: Feb 26 11:48:16 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	339762	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	574889	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	541957	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	244050	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	206536	49.08	ug/l	0.00
Spiked Amount			Recovery	=	98.16%	
35) Dibromofluoromethane	5.50	113	191440	49.82	ug/l	0.00
Spiked Amount			Recovery	=	99.64%	
50) Toluene-d8	8.71	98	700659	47.62	ug/l	0.00
Spiked Amount			Recovery	=	95.24%	
62) 4-Bromofluorobenzene	11.13	95	240554	44.55	ug/l	0.00
Spiked Amount			Recovery	=	89.10%	

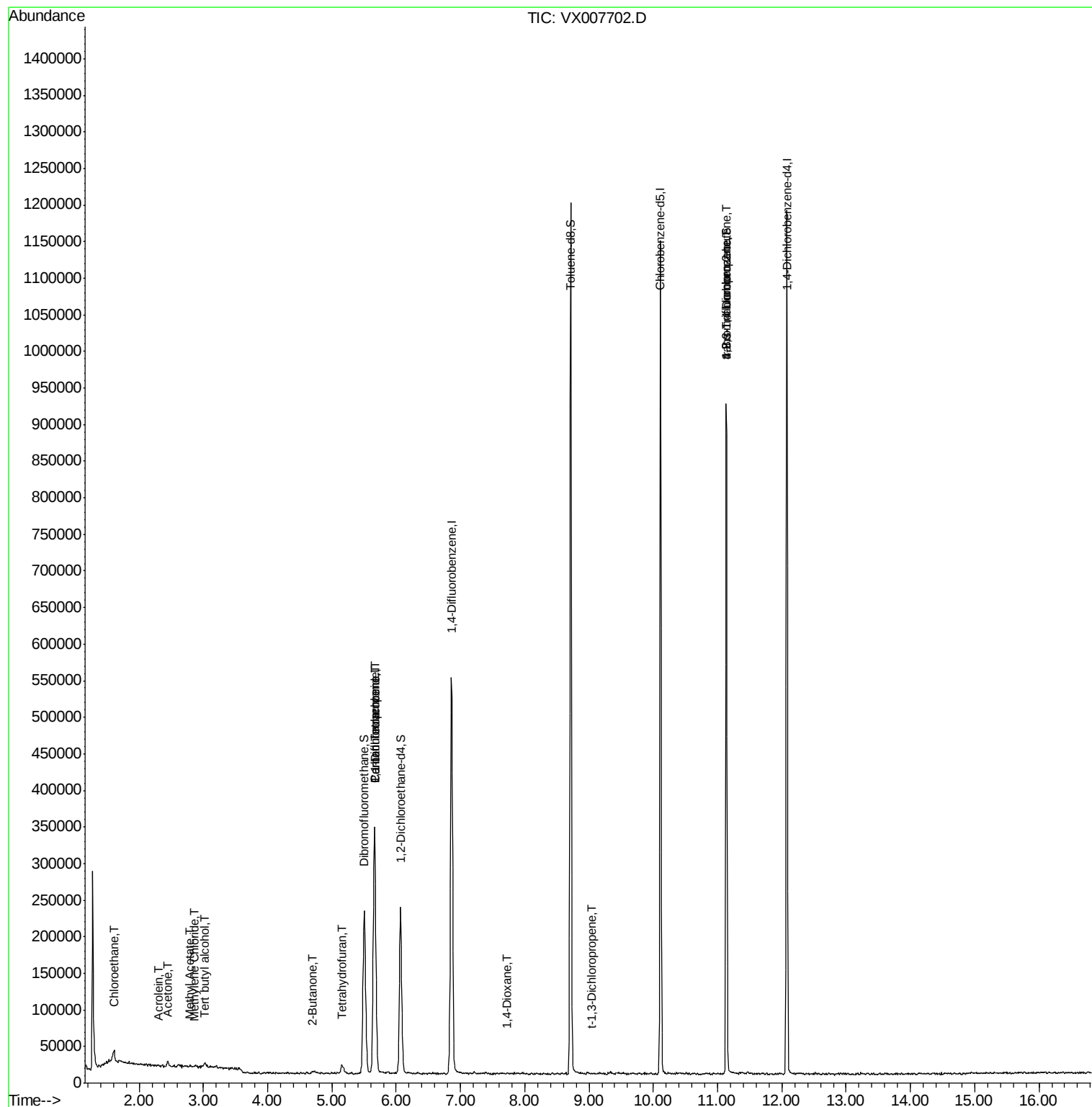
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.65	94	141	Below Cal	#	3
6) Chloroethane	1.60	64	6866	3.020	ug/l #	87
11) Tert butyl alcohol	3.01	59	4629	5.797	ug/l #	85
13) Acrolein	2.31	56	190	0.268	ug/l #	1
16) Acetone	2.45	43	6098	3.258	ug/l	97
18) Methyl Acetate	2.79	43	1168	0.286	ug/l #	1
20) Methylene Chloride	2.86	84	1314	0.380	ug/l #	82
25) 2-Butanone	4.70	43	6580	2.308	ug/l #	85
29) Tetrahydrofuran	5.15	42	9654	5.137	ug/l #	82
36) 1,1-Dichloropropene	5.66	75	22903	4.431	ug/l #	52
38) Carbon Tetrachloride	5.67	117	32925	6.342	ug/l #	18
49) 1,4-Dioxane	7.73	88	221	2.209	ug/l #	21
53) t-1,3-Dichloropropene	9.05	75	176	2.829	ug/l #	65
76) 1,2,3-Trichloropropane	11.13	75	116743	22.442	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.13	75	116743	59.527	ug/l #	9

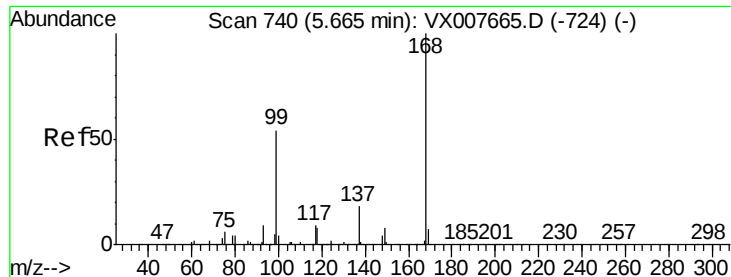
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.00 min

Lab File: VX007702.D

Acq: 26 Feb 2019 08:14

Instrument :

MSVOA_X

ClientSampleId :

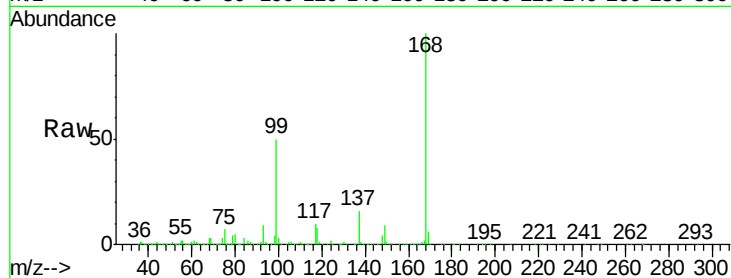
M2-T3-UV(PRE)

Tgt Ion:168 Resp: 339762

Ion Ratio Lower Upper

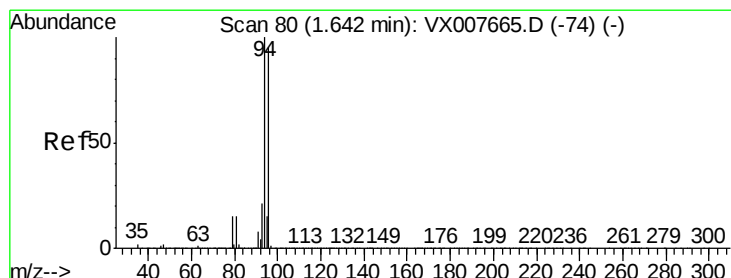
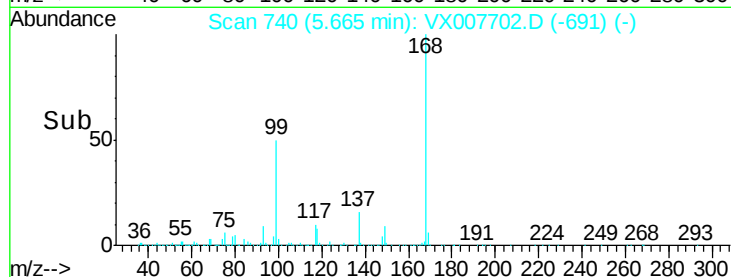
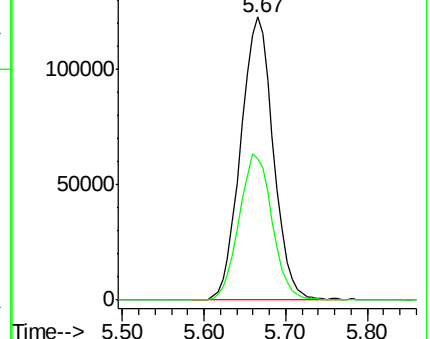
168 100

99 49.8 37.9 56.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX007702.D

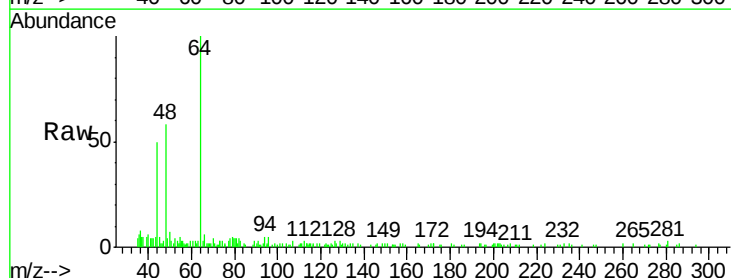
Acq: 26 Feb 2019 08:14

Tgt Ion: 94 Resp: 141

Ion Ratio Lower Upper

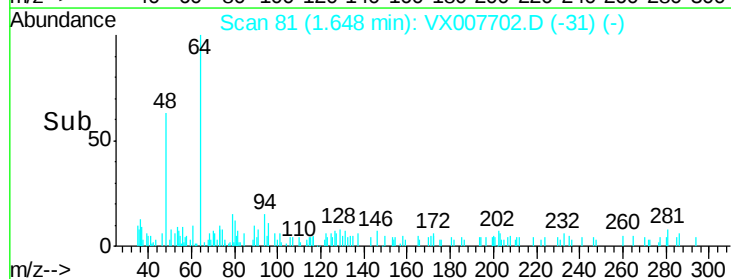
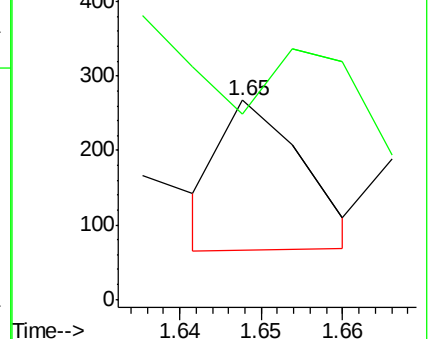
94 100

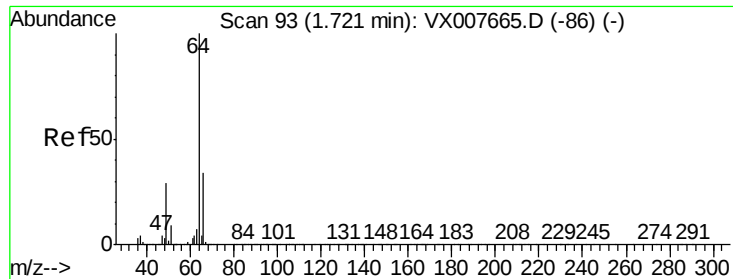
96 0.0 73.9 110.9#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#6

Chloroethane

Concen: 3.020 ug/l

RT: 1.60 min Scan# 73

Delta R.T. -0.12 min

Lab File: VX007702.D

Acq: 26 Feb 2019 08:14

Instrument :

MSVOA_X

ClientSampleId :

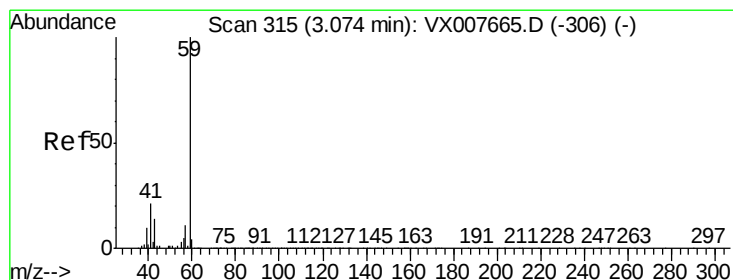
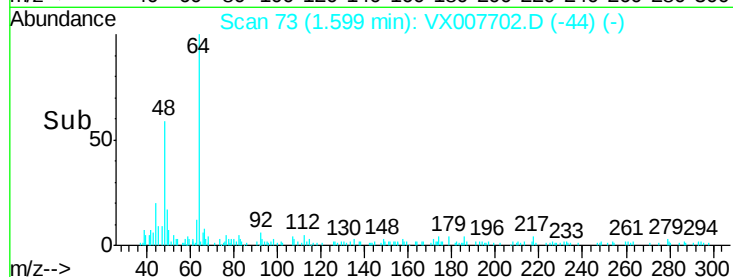
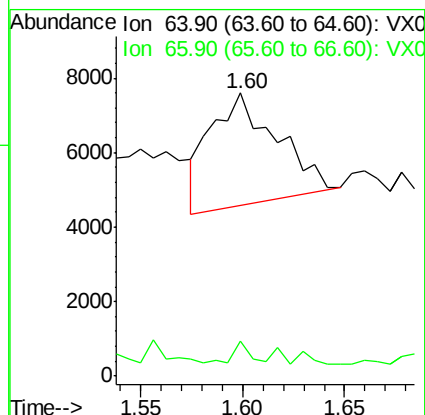
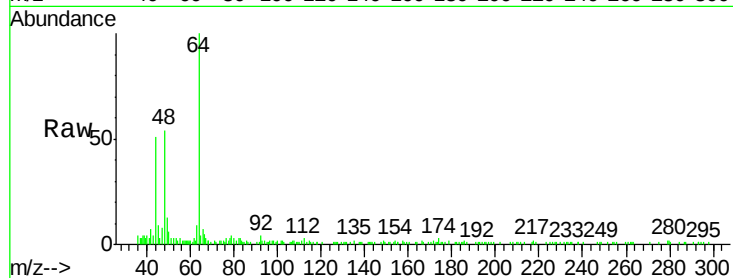
M2-T3-UV(PRE)

Tgt Ion: 64 Resp: 6866

Ion Ratio Lower Upper

64 100

66 24.6 25.5 38.3#



#11

Tert butyl alcohol

Concen: 5.797 ug/l

RT: 3.01 min Scan# 305

Delta R.T. -0.06 min

Lab File: VX007702.D

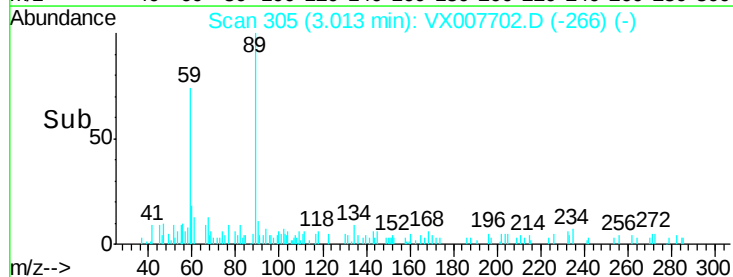
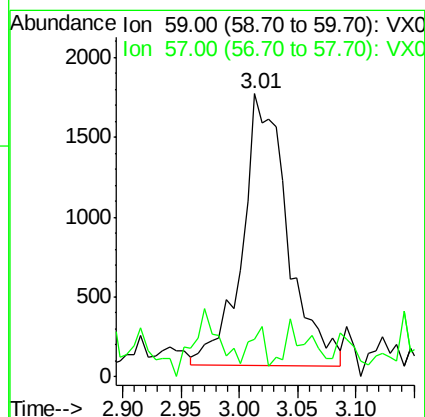
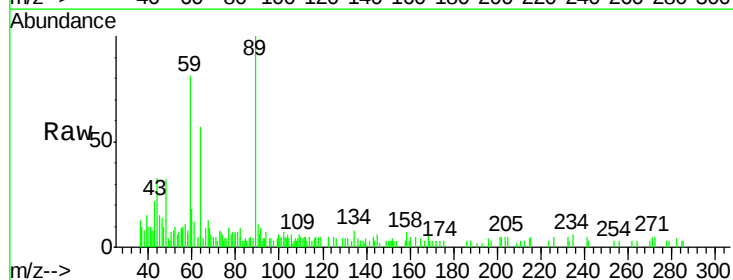
Acq: 26 Feb 2019 08:14

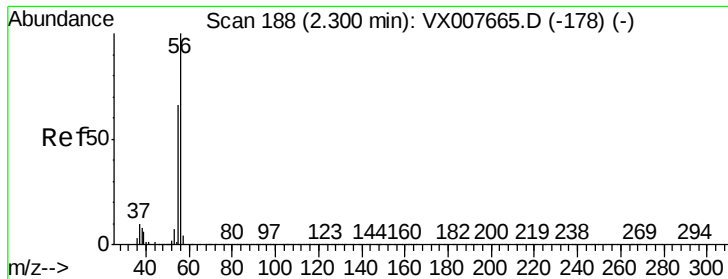
Tgt Ion: 59 Resp: 4629

Ion Ratio Lower Upper

59 100

57 4.5 8.1 12.1#





#13

Acrolein

Concen: 0.268 ug/l

RT: 2.31 min Scan# 190

Delta R.T. 0.01 min

Lab File: VX007702.D

Acq: 26 Feb 2019 08:14

Instrument :

MSVOA_X

ClientSampleId :

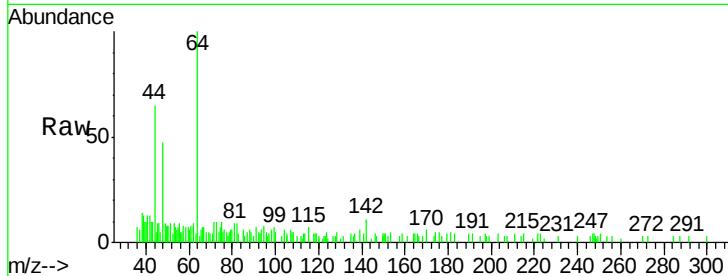
M2-T3-UV(PRE)

Tgt Ion: 56 Resp: 190

Ion Ratio Lower Upper

56 100

55 182.6 56.9 85.3#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

400

300

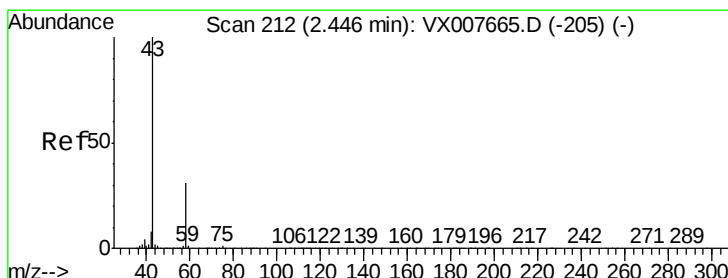
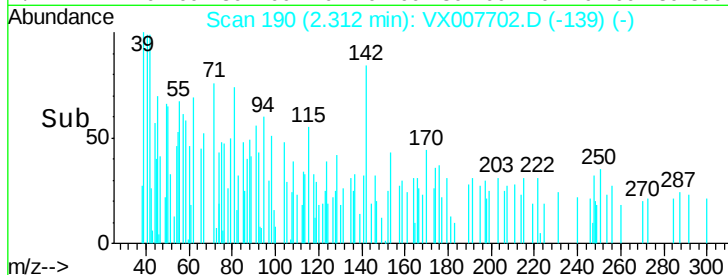
200

100

0

2.30 2.31 2.32 2.33

Time-->



#16

Acetone

Concen: 3.258 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX007702.D

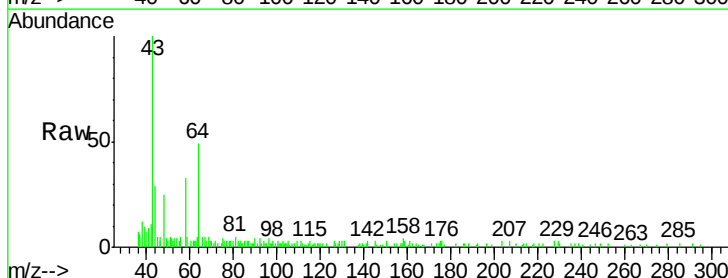
Acq: 26 Feb 2019 08:14

Tgt Ion: 43 Resp: 6098

Ion Ratio Lower Upper

43 100

58 29.5 24.9 37.3



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

5000

4000

3000

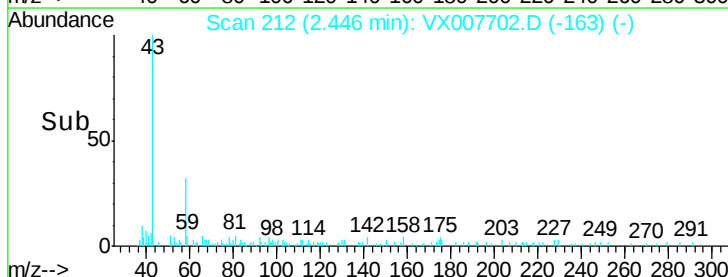
2000

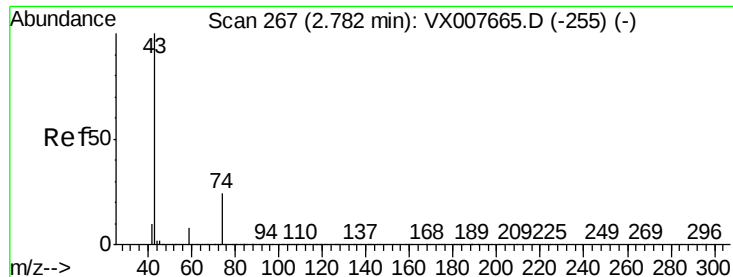
1000

0

2.40 2.45 2.50

Time-->

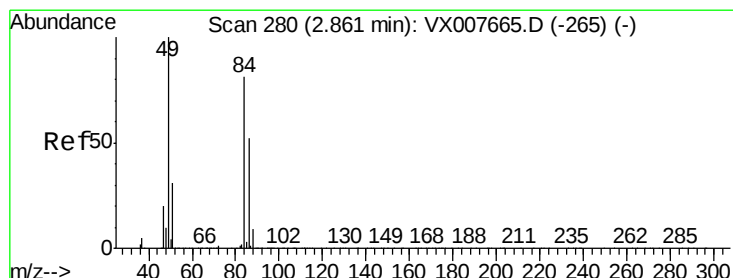
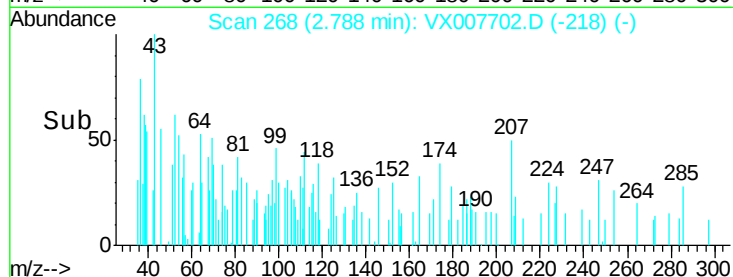
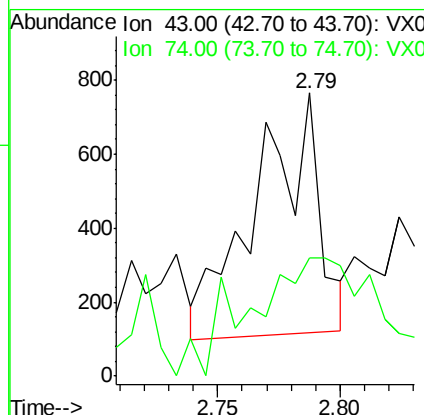
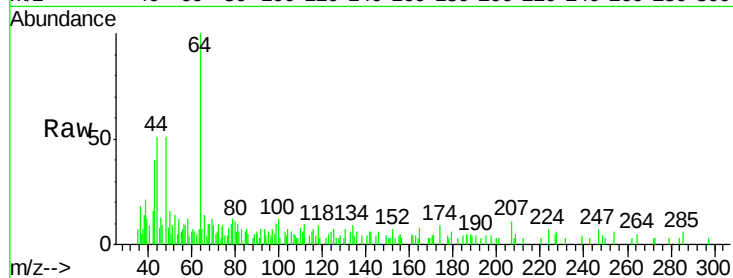




#18
Methyl Acetate
Concen: 0.286 ug/l
RT: 2.79 min Scan# 268
Delta R.T. 0.01 min
Lab File: VX007702.D
Acq: 26 Feb 2019 08:14

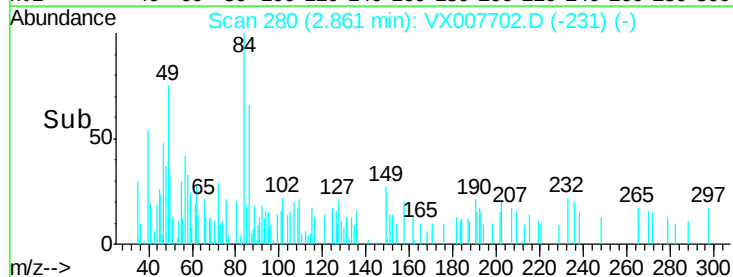
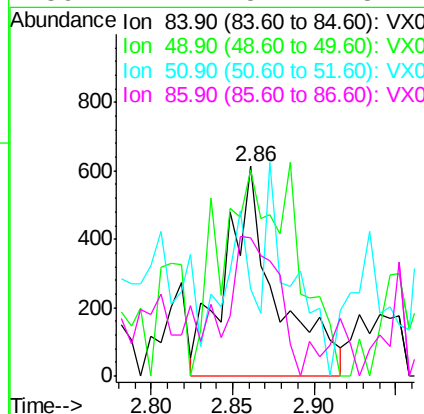
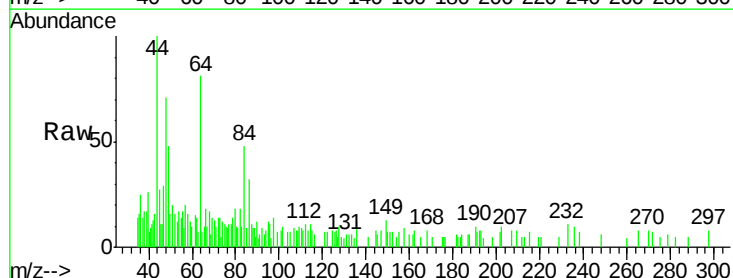
Instrument :
MSVOA_X
ClientSampleId :
M2-T3-UV(PRE)

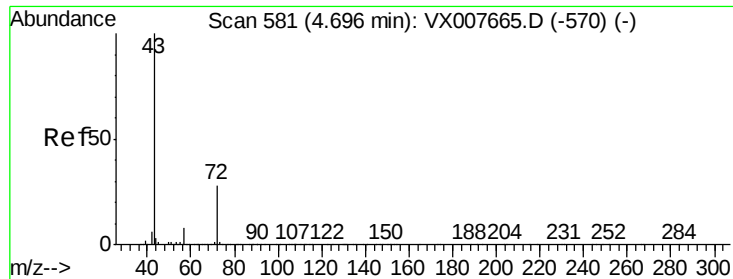
Tgt Ion: 43 Resp: 1168
Ion Ratio Lower Upper
43 100
74 101.6 19.4 29.2#



#20
Methylene Chloride
Concen: 0.380 ug/l
RT: 2.86 min Scan# 280
Delta R.T. 0.00 min
Lab File: VX007702.D
Acq: 26 Feb 2019 08:14

Tgt Ion: 84 Resp: 1314
Ion Ratio Lower Upper
84 100
49 114.2 94.8 142.2
51 11.9 29.8 44.8#
86 44.2 54.1 81.1#





#25

2-Butanone

Concen: 2.308 ug/l

RT: 4.70 min Scan# 581

Delta R.T. 0.00 min

Lab File: VX007702.D

Acq: 26 Feb 2019 08:14

Instrument :

MSVOA_X

ClientSampleId :

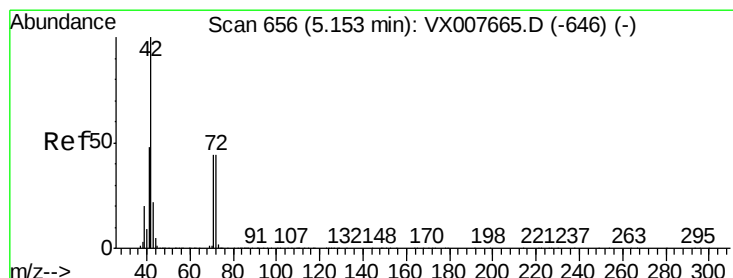
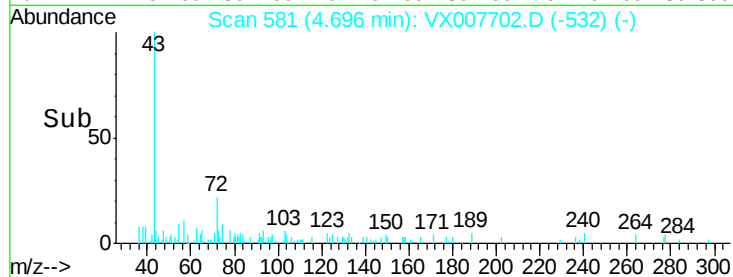
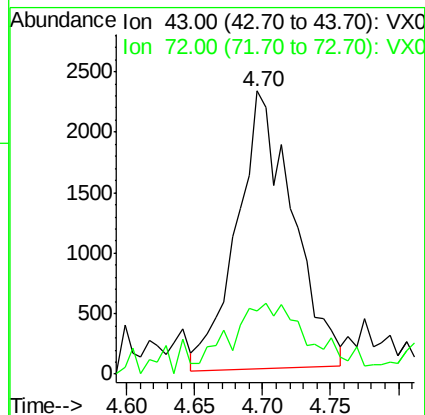
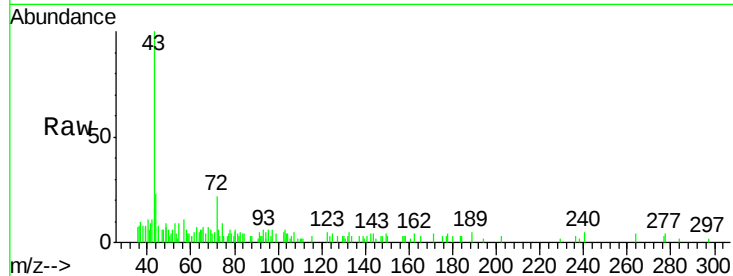
M2-T3-UV(PRE)

Tgt Ion: 43 Resp: 6580

Ion Ratio Lower Upper

43 100

72 19.9 22.2 33.2#



#29

Tetrahydrofuran

Concen: 5.137 ug/l

RT: 5.15 min Scan# 656

Delta R.T. 0.00 min

Lab File: VX007702.D

Acq: 26 Feb 2019 08:14

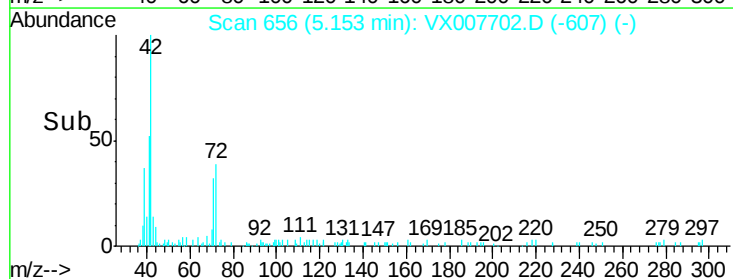
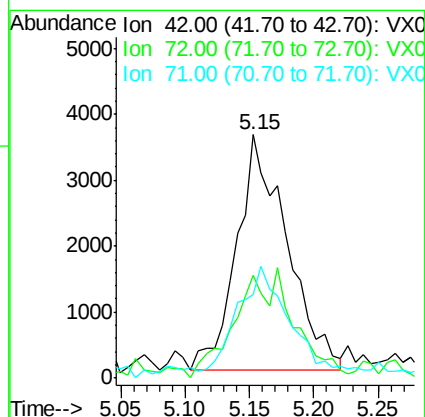
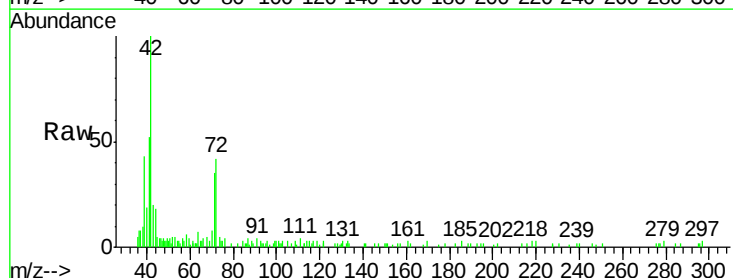
Tgt Ion: 42 Resp: 9654

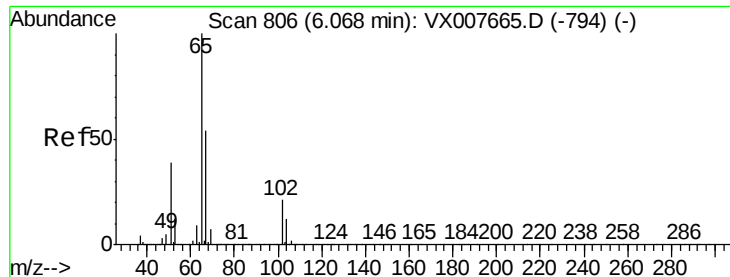
Ion Ratio Lower Upper

42 100

72 31.6 37.6 56.4#

71 51.9 34.6 51.8#





#33

1,2-Dichloroethane-d4

Concen: 49.075 ug/l

RT: 6.07 min Scan# 806

Delta R.T. 0.00 min

Lab File: VX007702.D

Acq: 26 Feb 2019 08:14

Instrument :

MSVOA_X

ClientSampleId :

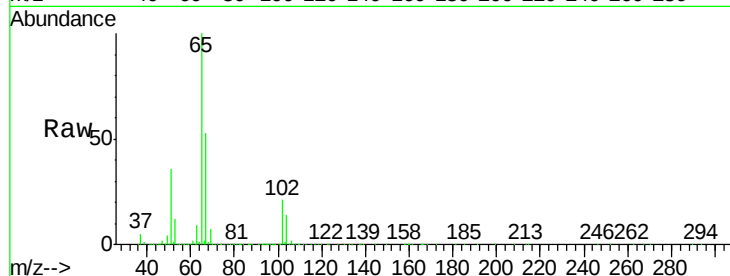
M2-T3-UV(PRE)

Tgt Ion: 65 Resp: 206536

Ion Ratio Lower Upper

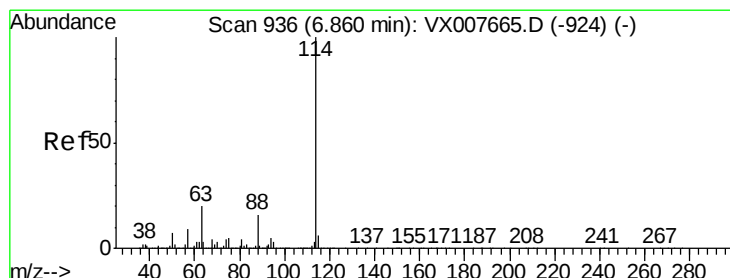
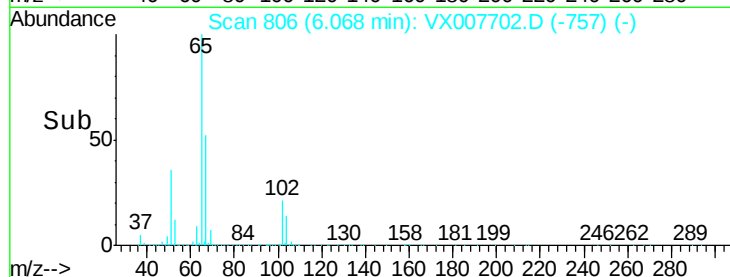
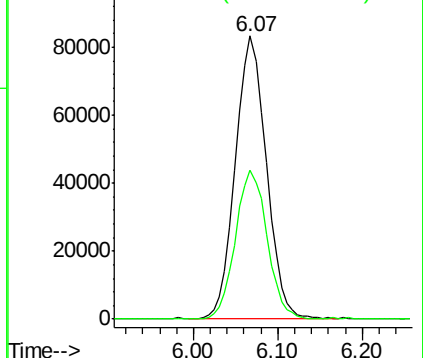
65 100

67 53.6 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: VX007702.D

Acq: 26 Feb 2019 08:14

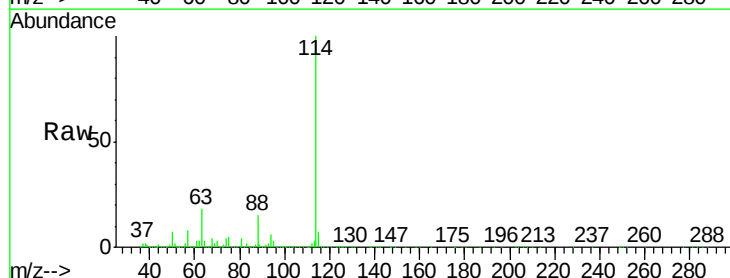
Tgt Ion: 114 Resp: 574889

Ion Ratio Lower Upper

114 100

63 18.4 0.0 35.6

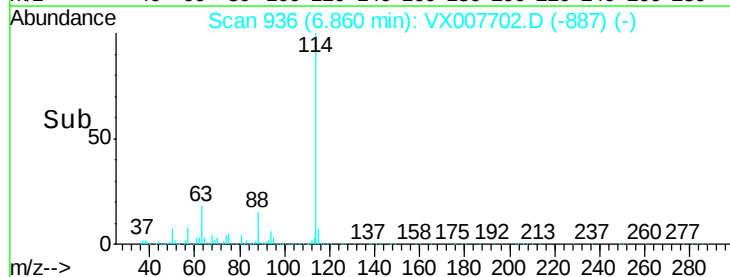
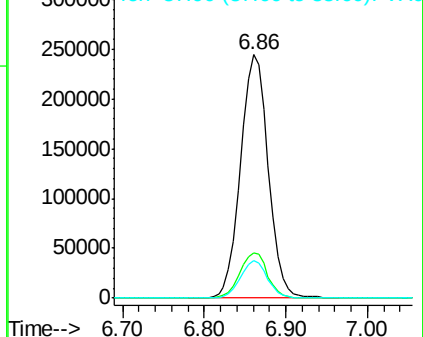
88 15.2 0.0 29.6

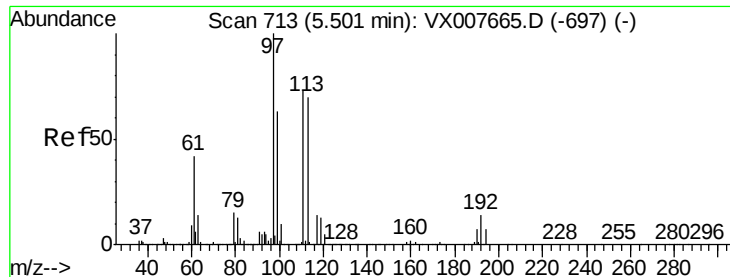


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0





#35

Dibromofluoromethane

Concen: 49.816 ug/l

RT: 5.50 min Scan# 713

Delta R.T. 0.00 min

Lab File: VX007702.D

Acq: 26 Feb 2019 08:14

Instrument :

MSVOA_X

ClientSampleId :

M2-T3-UV(PRE)

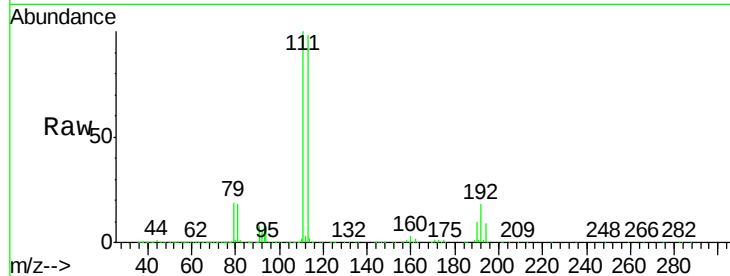
Tgt Ion:113 Resp: 191440

Ion Ratio Lower Upper

113 100

111 103.7 81.8 122.8

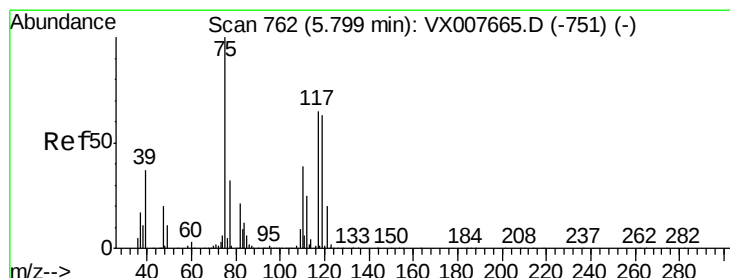
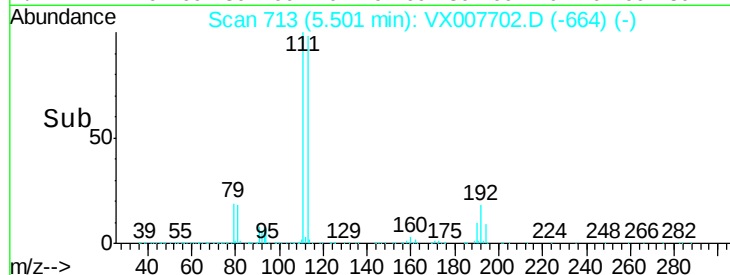
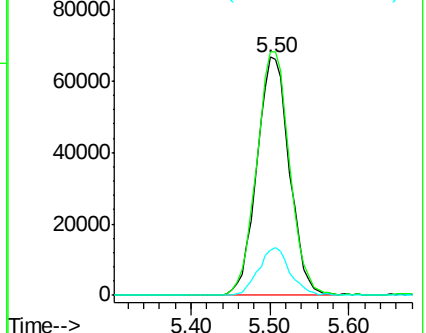
192 19.7 18.5 27.7



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: 4.431 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX007702.D

Acq: 26 Feb 2019 08:14

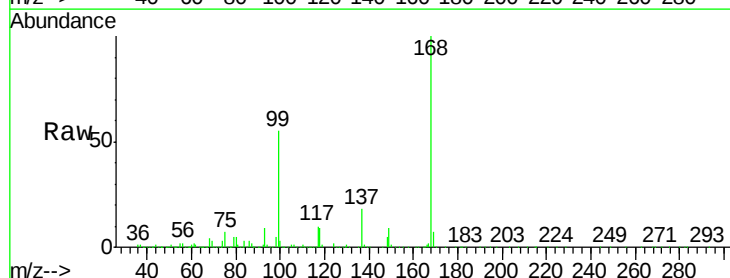
Tgt Ion: 75 Resp: 22903

Ion Ratio Lower Upper

75 100

110 12.7 20.0 59.9#

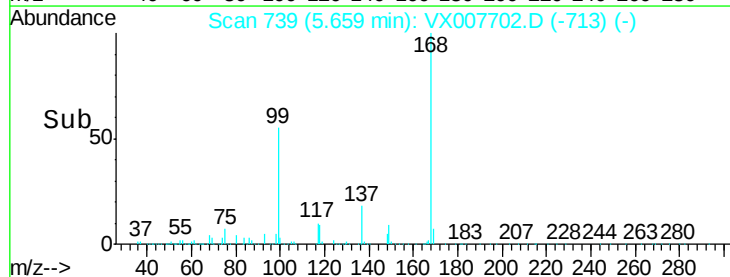
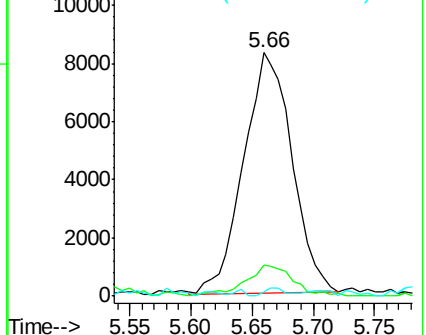
77 1.5 24.7 37.1#

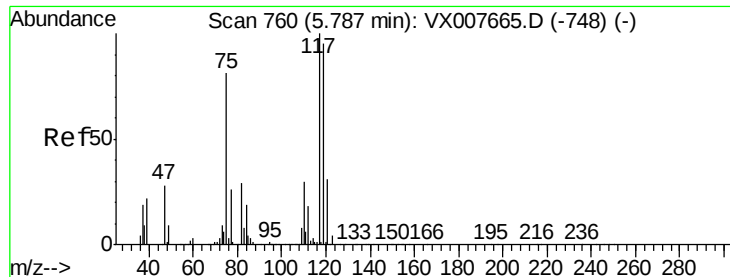


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.342 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX007702.D

Acq: 26 Feb 2019 08:14

Instrument :

MSVOA_X

ClientSampleId :

M2-T3-UV(PRE)

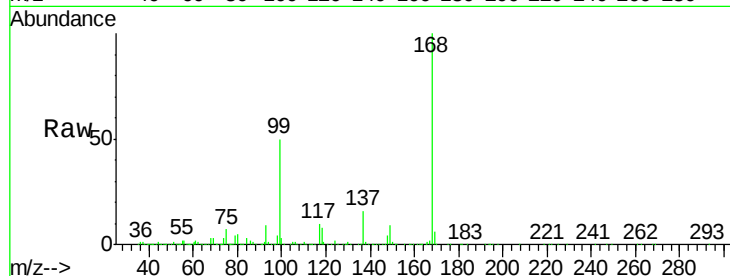
Tgt Ion: 117 Resp: 32925

Ion Ratio Lower Upper

117 100

119 6.7 75.3 112.9#

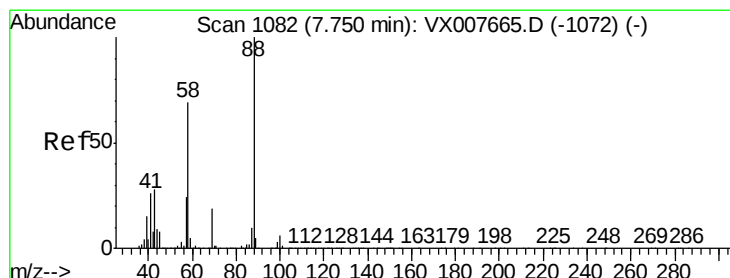
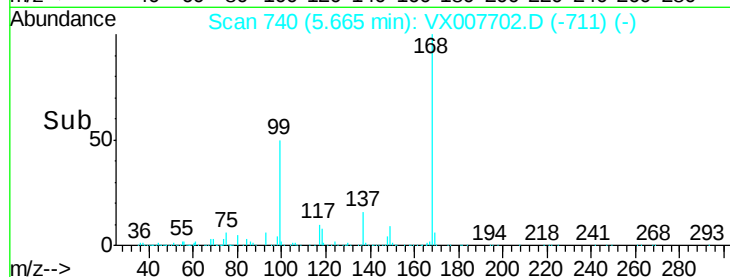
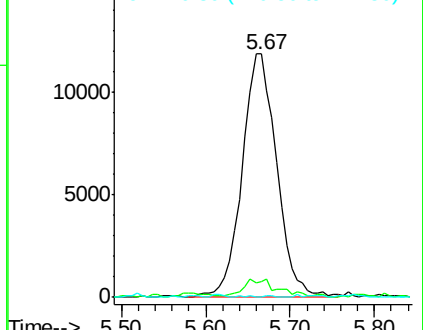
121 0.0 25.0 37.4#



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



#49

1,4-Dioxane

Concen: 2.209 ug/l

RT: 7.73 min Scan# 1079

Delta R.T. -0.02 min

Lab File: VX007702.D

Acq: 26 Feb 2019 08:14

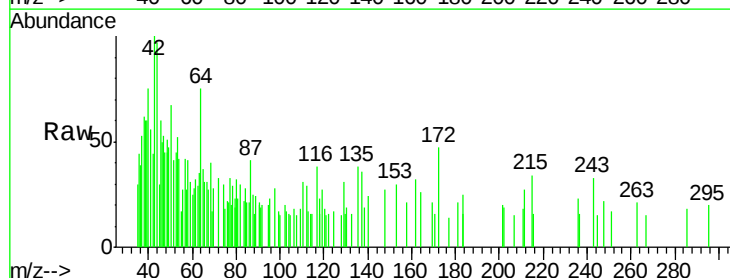
Tgt Ion: 88 Resp: 221

Ion Ratio Lower Upper

88 100

43 93.7 24.2 36.4#

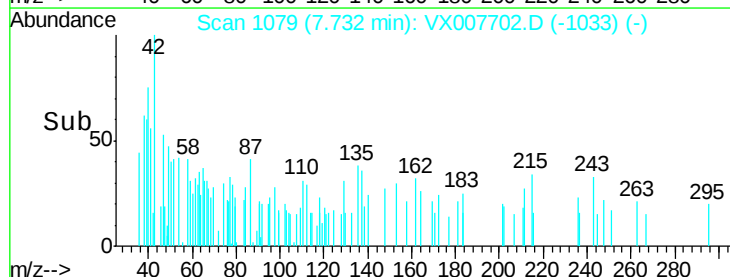
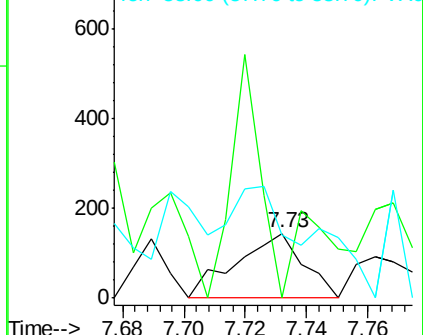
58 115.8 53.0 79.4#

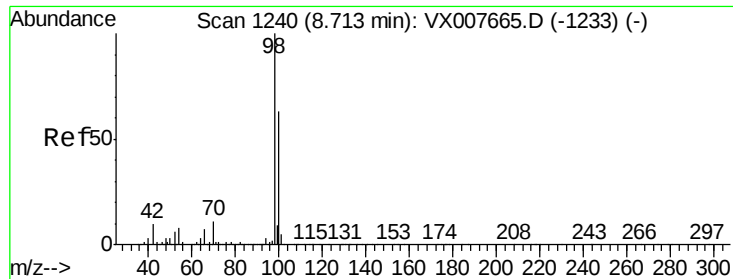


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 47.624 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX007702.D

Acq: 26 Feb 2019 08:14

Instrument :

MSVOA_X

ClientSampleId :

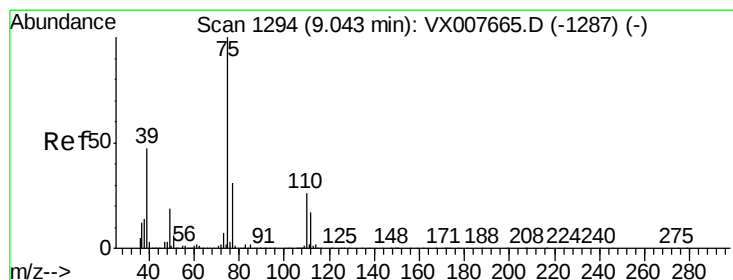
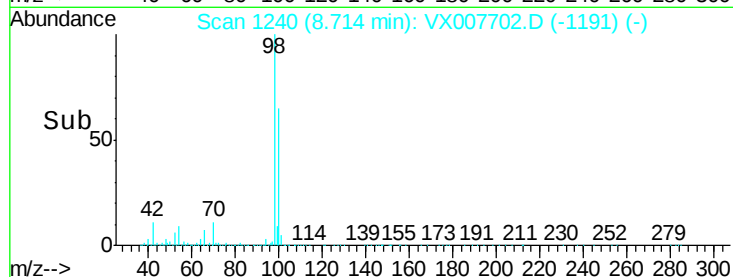
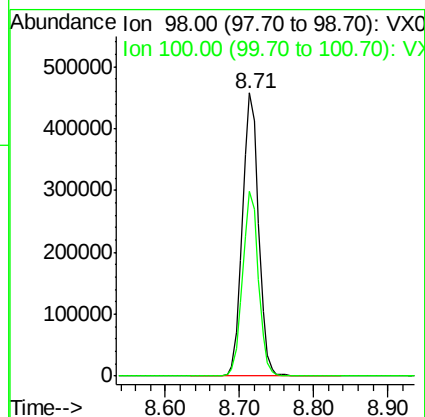
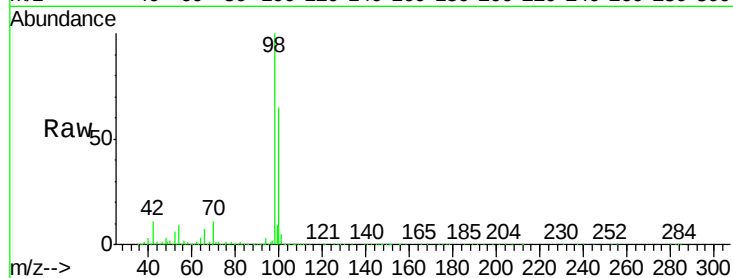
M2-T3-UV(PRE)

Tgt Ion: 98 Resp: 700659

Ion Ratio Lower Upper

98 100

100 64.0 51.6 77.4



#53

t-1,3-Dichloropropene

Concen: 2.829 ug/l

RT: 9.05 min Scan# 1295

Delta R.T. 0.01 min

Lab File: VX007702.D

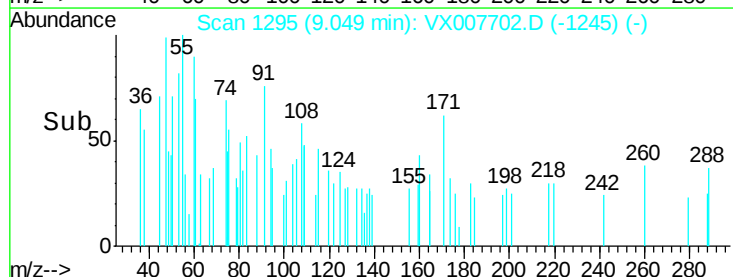
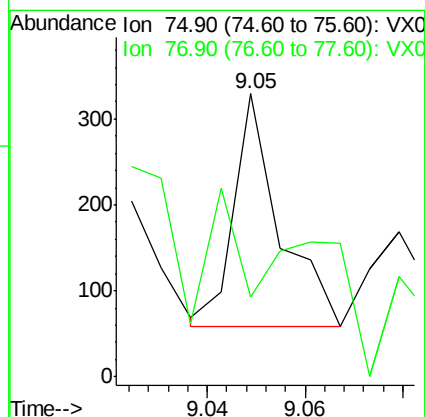
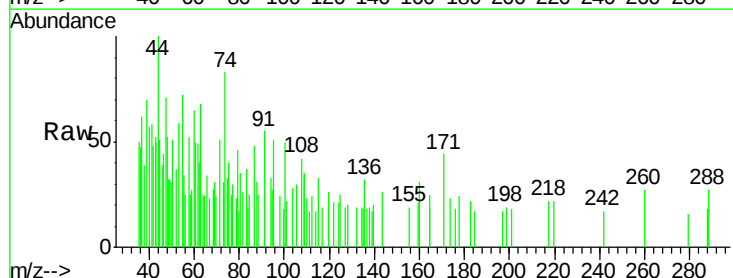
Acq: 26 Feb 2019 08:14

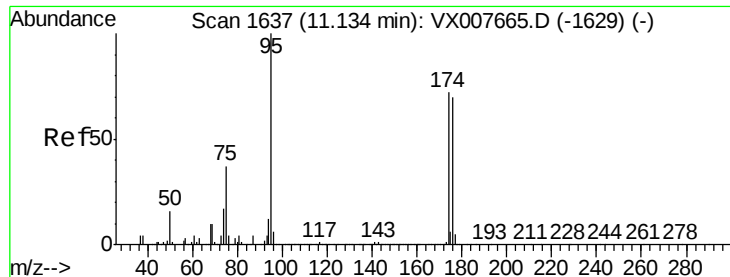
Tgt Ion: 75 Resp: 176

Ion Ratio Lower Upper

75 100

77 11.9 25.2 37.8#





#62

4-Bromofluorobenzene

Concen: 44.548 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX007702.D

Acq: 26 Feb 2019 08:14

Instrument :

MSVOA_X

ClientSampleId :

M2-T3-UV(PRE)

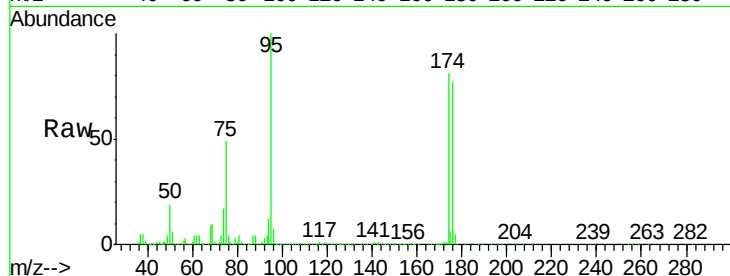
Tgt Ion: 95 Resp: 240554

Ion Ratio Lower Upper

95 100

174 86.1 0.0 189.2

176 82.9 0.0 186.2

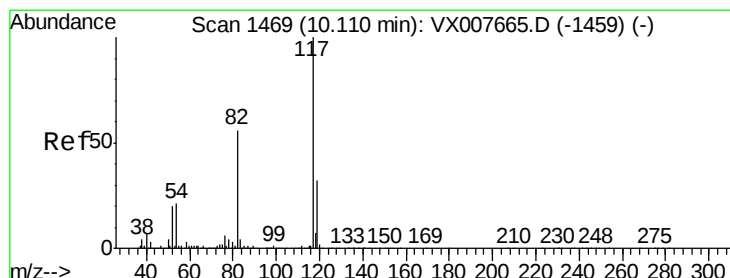
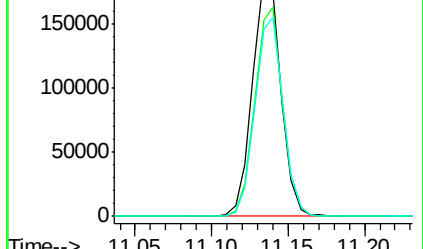
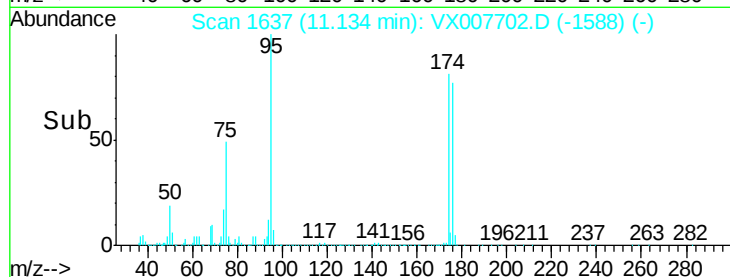


Abundance Ion 94.90 (94.60 to 95.60): VX007665.D (-1629) (-)

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

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

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. 0.00 min

Lab File: VX007702.D

Acq: 26 Feb 2019 08:14

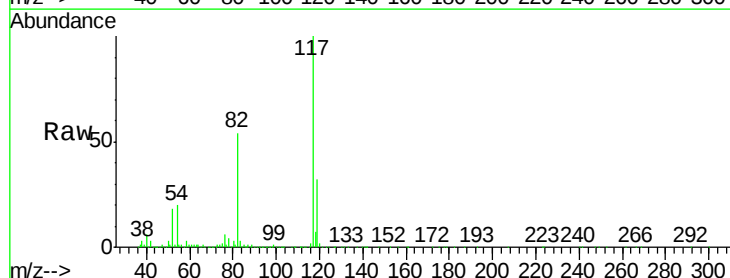
Tgt Ion: 117 Resp: 541957

Ion Ratio Lower Upper

117 100

82 53.6 42.1 63.1

119 31.5 26.5 39.7

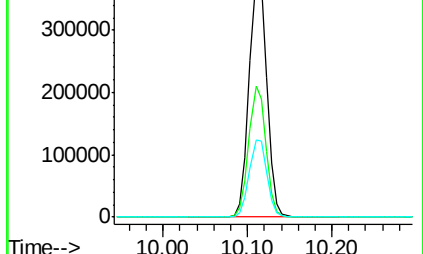
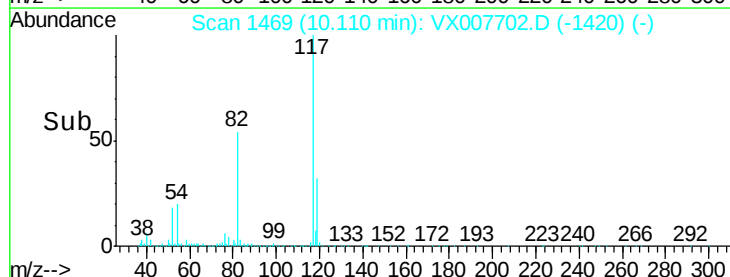


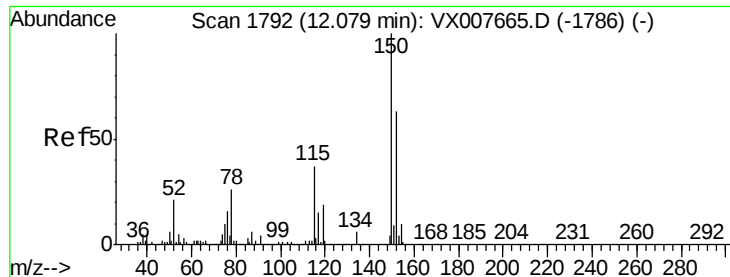
Abundance Ion 116.90 (116.60 to 117.60): VX007665.D (-1459) (-)

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

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

Time-->





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. 0.00 min

Lab File: VX007702.D

Acq: 26 Feb 2019 08:14

Instrument :

MSVOA_X

ClientSampleId :

M2-T3-UV(PRE)

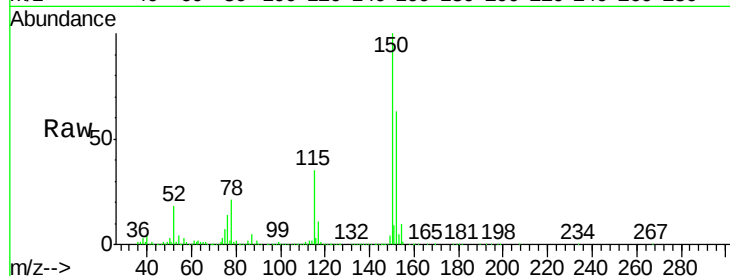
Tgt Ion: 152 Resp: 244050

Ion Ratio Lower Upper

152 100

115 57.6 38.0 114.0

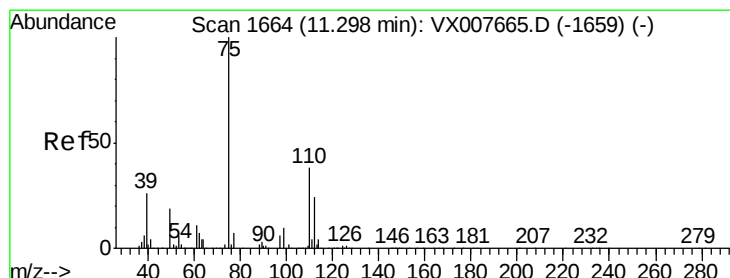
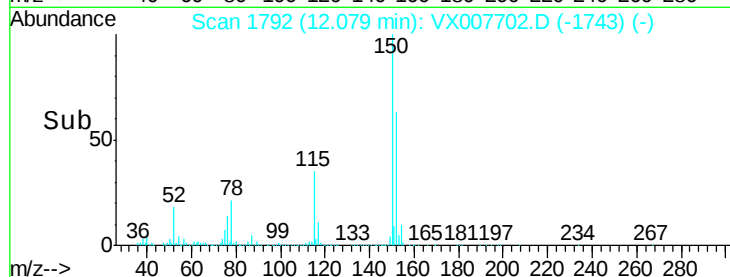
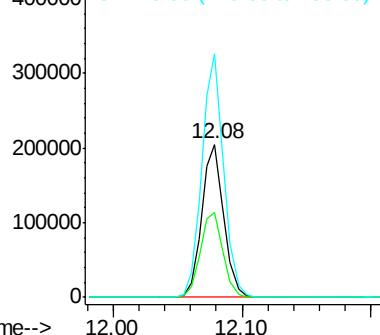
150 157.8 0.0 346.4



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: 22.442 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX007702.D

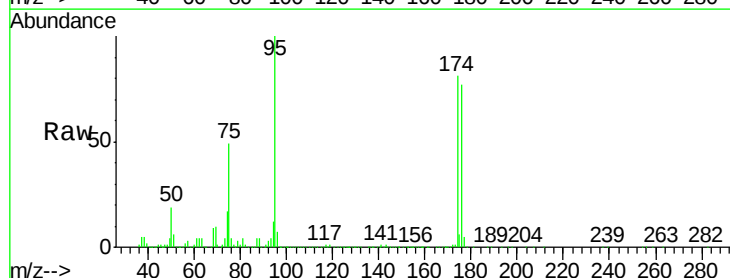
Acq: 26 Feb 2019 08:14

Tgt Ion: 75 Resp: 116743

Ion Ratio Lower Upper

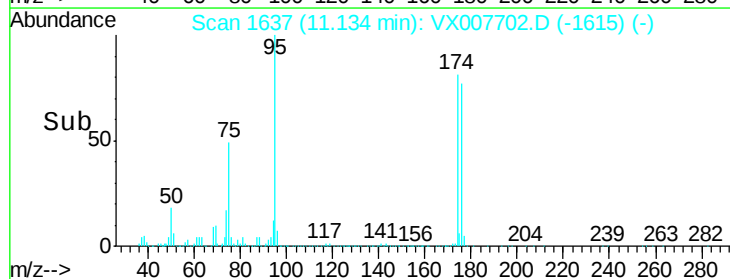
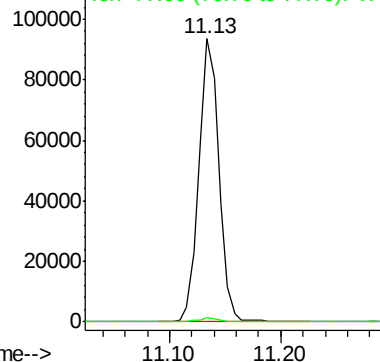
75 100

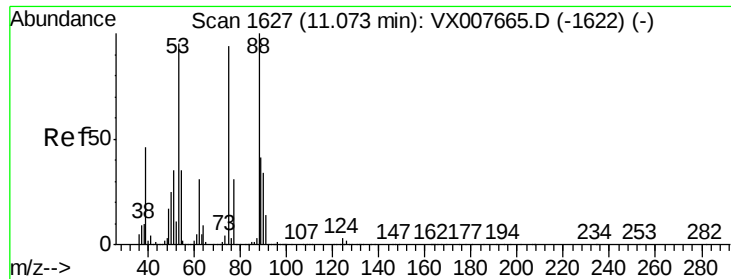
77 1.5 23.0 69.0#



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: 59.527 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX007702.D

Acq: 26 Feb 2019 08:14

Instrument :

MSVOA_X

ClientSampleId :

M2-T3-UV(PRE)

Tgt Ion: 75 Resp: 116743

Ion Ratio Lower Upper

75 100

53 0.3 81.0 121.6#

89 0.4 41.4 62.0#

