

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX022519\
 Data File : VX007695.D
 Acq On : 26 Feb 2019 05:08
 Operator : JC/SP
 Sample : K1603-03
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 37 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 M1-T2-OZ(PRE)

Quant Time: Feb 26 05:33:38 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	352505	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	596819	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	561451	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	255945	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	215123	49.27	ug/l	0.00
Spiked Amount			Recovery	=	98.54%	
35) Dibromofluoromethane	5.50	113	199019	49.89	ug/l	0.00
Spiked Amount			Recovery	=	99.78%	
50) Toluene-d8	8.71	98	715997	46.88	ug/l	0.00
Spiked Amount			Recovery	=	93.76%	
62) 4-Bromofluorobenzene	11.13	95	251392	44.84	ug/l	0.00
Spiked Amount			Recovery	=	89.68%	

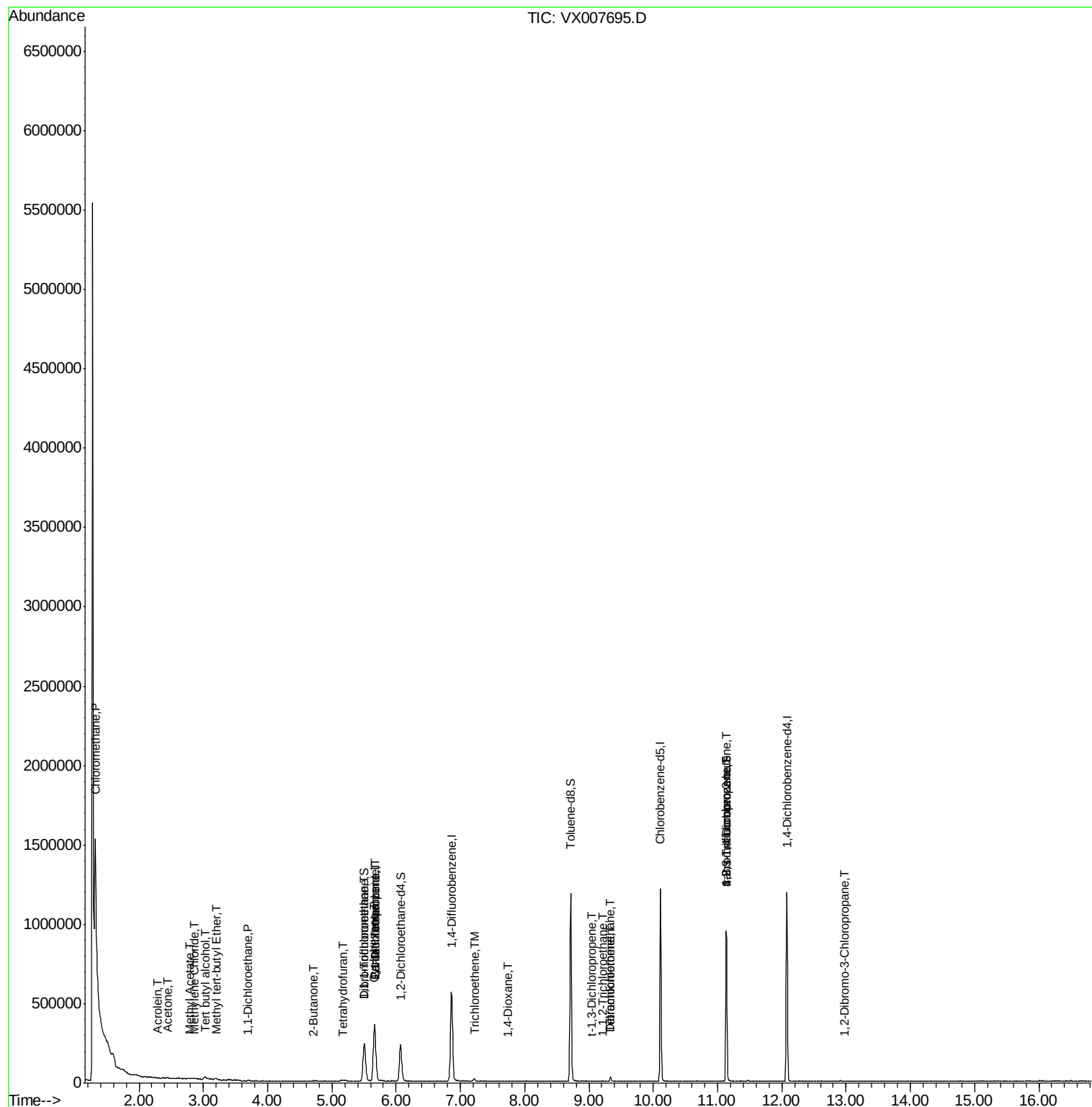
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	51226	14.236	ug/l #	44
5) Bromomethane	1.65	94	530	Below Cal	#	62
11) Tert butyl alcohol	3.03	59	10152	12.254	ug/l #	88
13) Acrolein	2.29	56	897	1.218	ug/l #	81
16) Acetone	2.45	43	7026	3.618	ug/l #	81
18) Methyl Acetate	2.78	43	2153	0.508	ug/l #	64
19) Methyl tert-butyl Ether	3.21	73	5265	0.490	ug/l	91
20) Methylene Chloride	2.86	84	762	0.213	ug/l #	55
24) 1,1-Dichloroethane	3.70	63	7343	1.138	ug/l	98
25) 2-Butanone	4.70	43	4306	1.456	ug/l	98
29) Tetrahydrofuran	5.17	42	3780	1.939	ug/l #	58
31) Cyclohexane	5.65	56	6906	1.138	ug/l #	18
32) 1,1,1-Trichloroethane	5.49	97	3445	0.603	ug/l #	35
36) 1,1-Dichloropropene	5.67	75	22731	4.236	ug/l #	50
38) Carbon Tetrachloride	5.67	117	32388	6.009	ug/l #	16
44) Trichloroethene	7.21	130	5990	1.315	ug/l	97
49) 1,4-Dioxane	7.74	88	264	2.542	ug/l #	23
53) t-1,3-Dichloropropene	9.05	75	242	2.838	ug/l #	43
55) 1,1,2-Trichloroethane	9.22	97	906	0.208	ug/l #	64
60) Dibromochloromethane	9.34	129	4846	1.156	ug/l #	14
64) Tetrachloroethene	9.34	164	4501	0.988	ug/l	87
76) 1,2,3-Trichloropropane	11.13	75	121137	22.204	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.13	75	121137	58.929	ug/l #	9
92) 1,2-Dibromo-3-Chloropropan	12.97	75	278	0.202	ug/l #	5

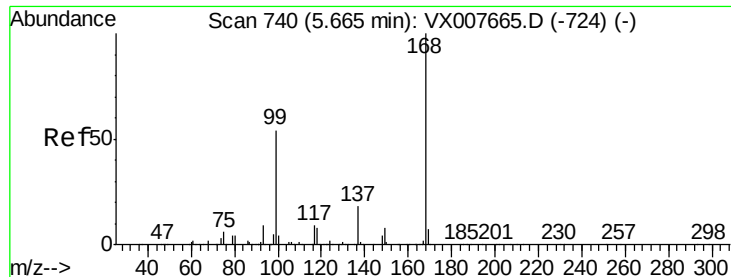
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Feb 26 05:33:38 2019
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Quant Title : SW846 8260
QLast Update : Tue Feb 26 01:53:13 2019
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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: VX007695.D

Acq: 26 Feb 2019 05:08

Instrument :

MSVOA_X

ClientSampleId :

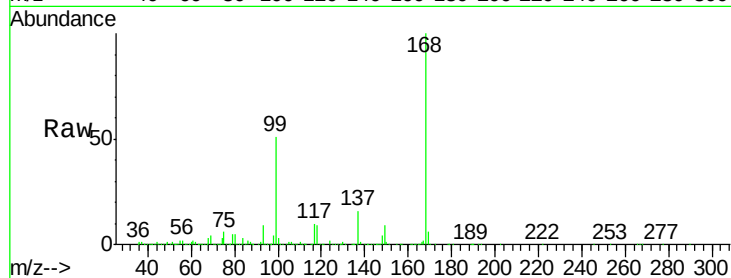
M1-T2-OZ(PRE)

Tot Ion:168 Resp: 352505

Ion Ratio Lower Upper

168 100

99 50.6 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

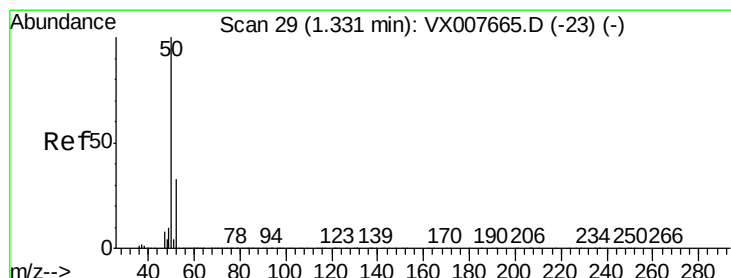
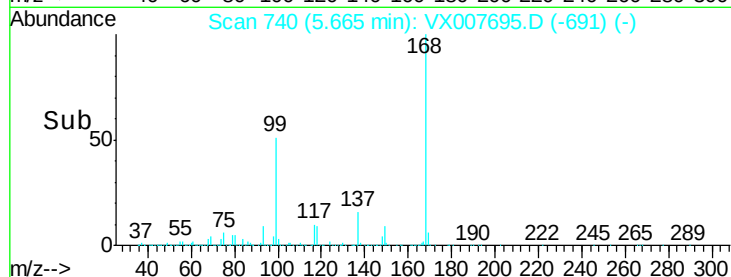
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 14.236 ug/l

RT: 1.32 min Scan# 27

Delta R.T. -0.01 min

Lab File: VX007695.D

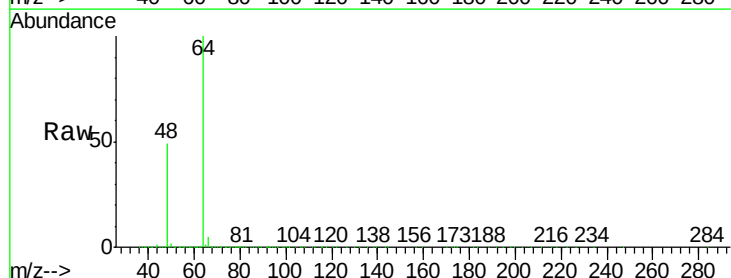
Acq: 26 Feb 2019 05:08

Tgt Ion: 50 Resp: 51226

Ion Ratio Lower Upper

50 100

52 1.3 26.1 39.1#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

80000

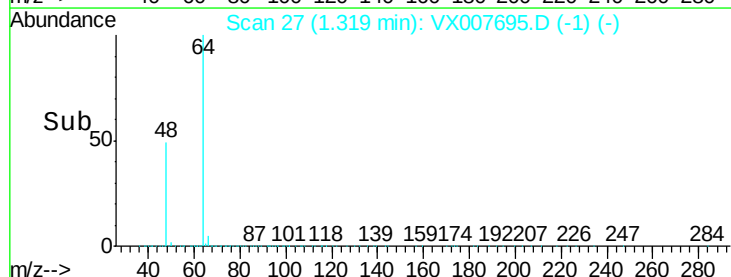
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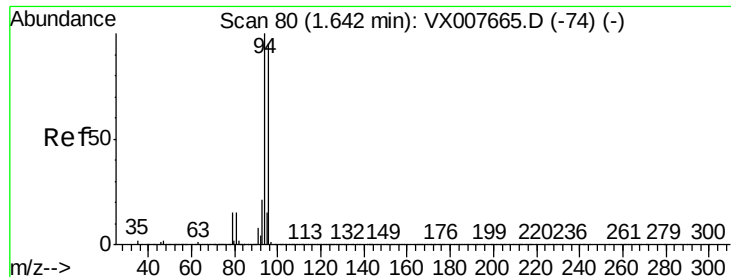
40000

20000

0

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 82

Delta R.T. 0.01 min

Lab File: VX007695.D

Acq: 26 Feb 2019 05:08

Instrument :

MSVOA_X

ClientSampleId :

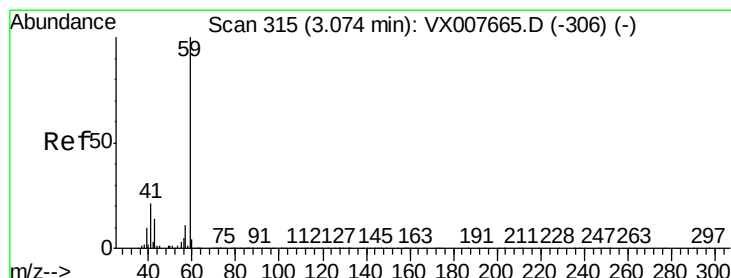
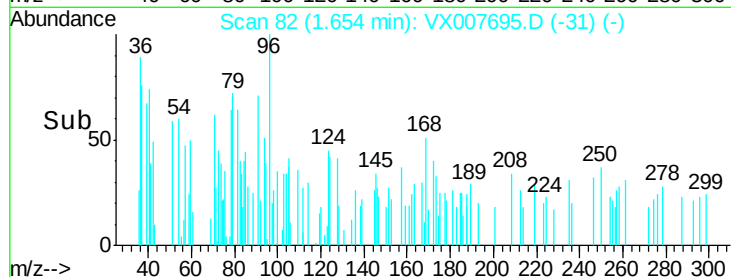
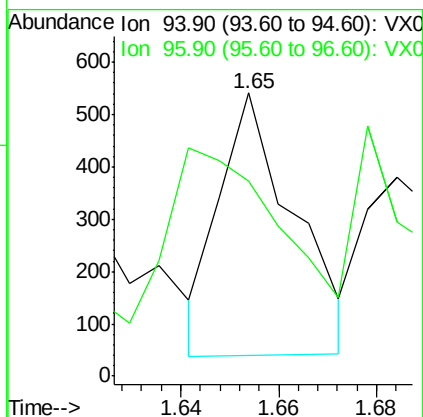
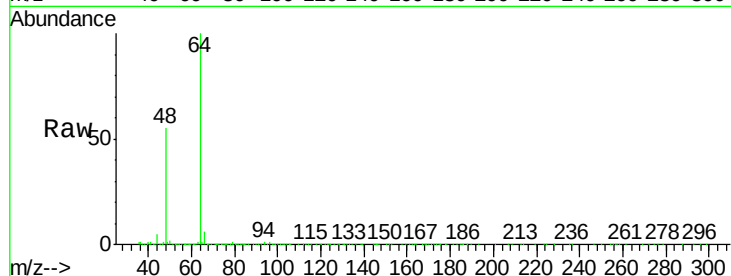
M1-T2-OZ(PRE)

Tot Ion: 94 Resp: 530

Ion Ratio Lower Upper

94 100

96 56.1 73.9 110.9#



#11

Tert butyl alcohol

Concen: 12.254 ug/l

RT: 3.03 min Scan# 307

Delta R.T. -0.05 min

Lab File: VX007695.D

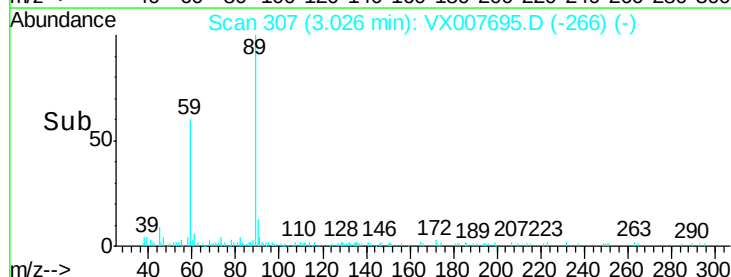
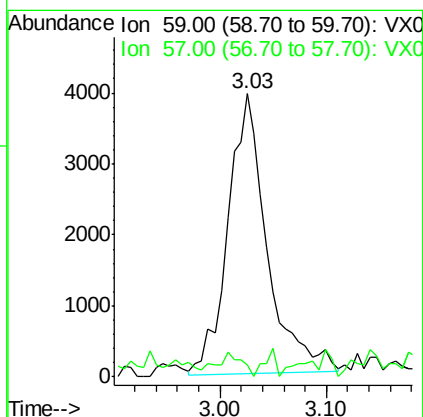
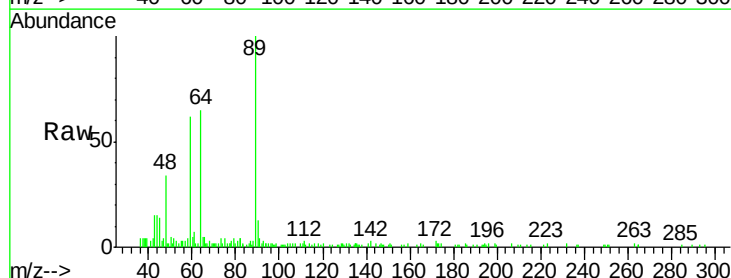
Acq: 26 Feb 2019 05:08

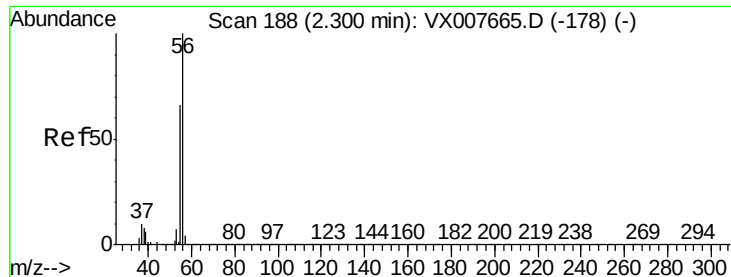
Tgt Ion: 59 Resp: 10152

Ion Ratio Lower Upper

59 100

57 5.6 8.1 12.1#





#13

Acrolein

Concen: 1.218 ug/l

RT: 2.29 min Scan# 187

Delta R.T. -0.01 min

Lab File: VX007695.D

Acq: 26 Feb 2019 05:08

Instrument :

MSVOA_X

ClientSampleId :

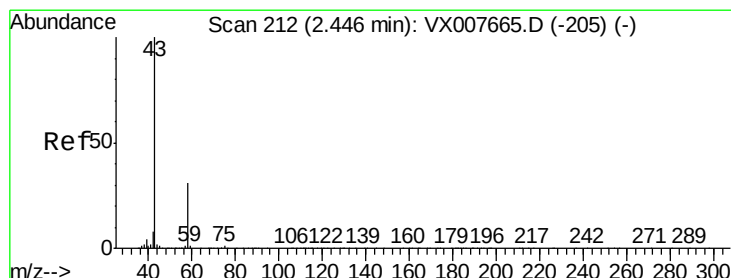
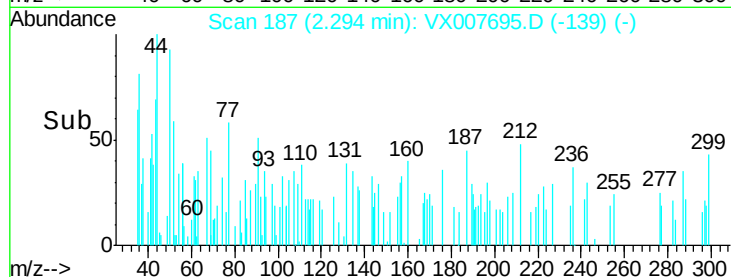
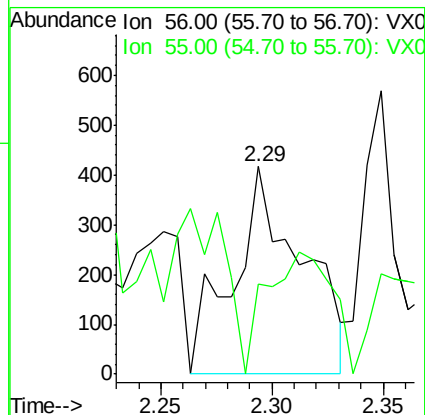
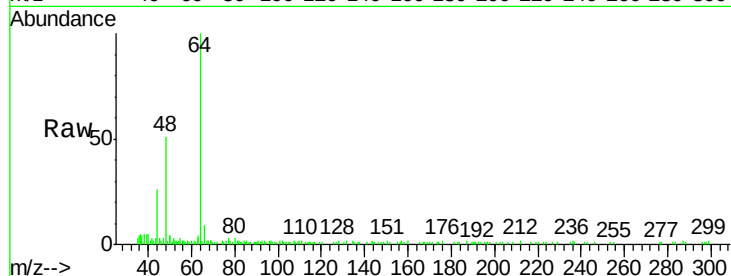
M1-T2-OZ(PRE)

Tot Ion: 56 Resp: 897

Ion Ratio Lower Upper

56 100

55 55.6 56.9 85.3#



#16

Acetone

Concen: 3.618 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX007695.D

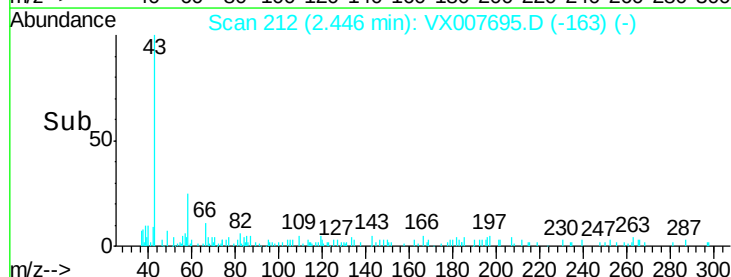
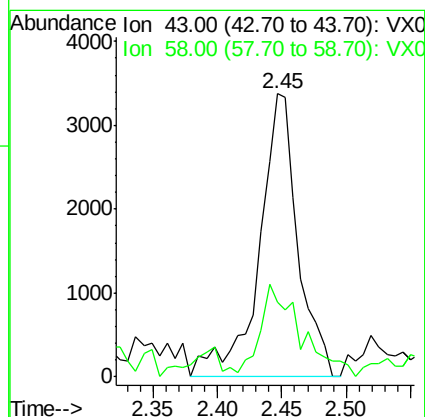
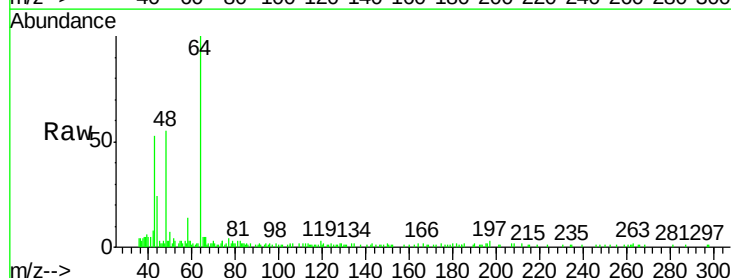
Acq: 26 Feb 2019 05:08

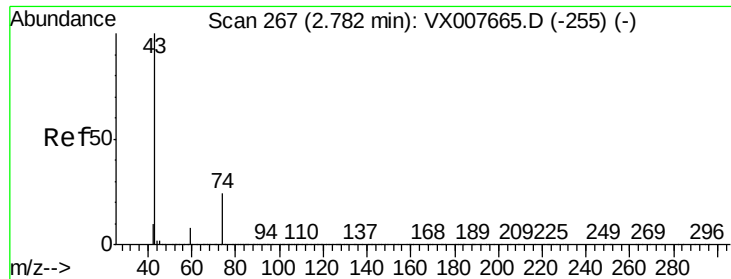
Tgt Ion: 43 Resp: 7026

Ion Ratio Lower Upper

43 100

58 20.7 24.9 37.3#

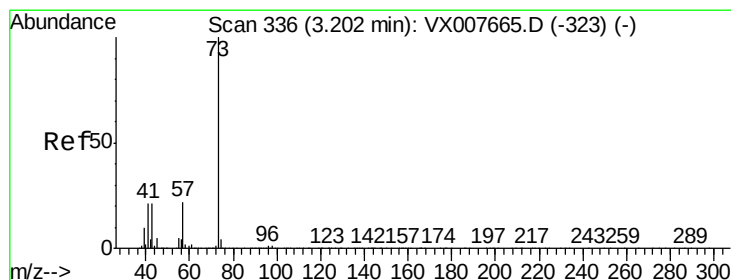
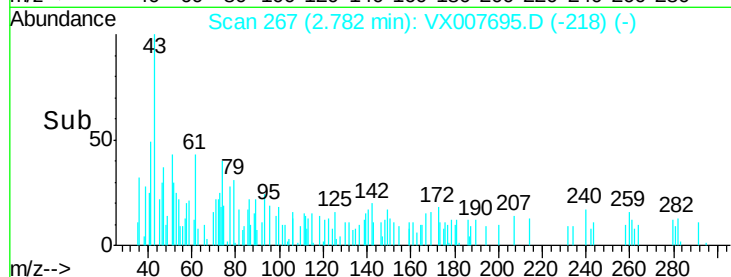
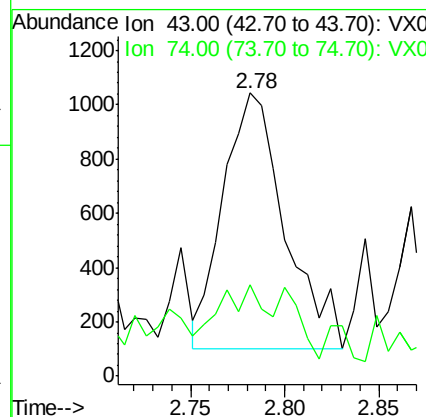
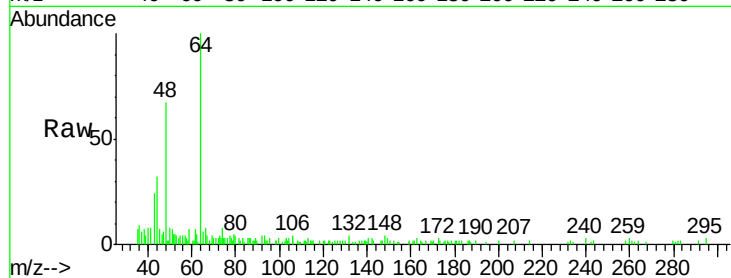




#18
Methyl Acetate
Concen: 0.508 ug/l
RT: 2.78 min Scan# 267
Delta R.T. 0.00 min
Lab File: VX007695.D
Acq: 26 Feb 2019 05:08

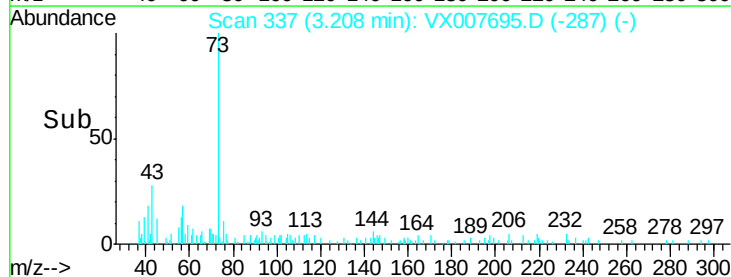
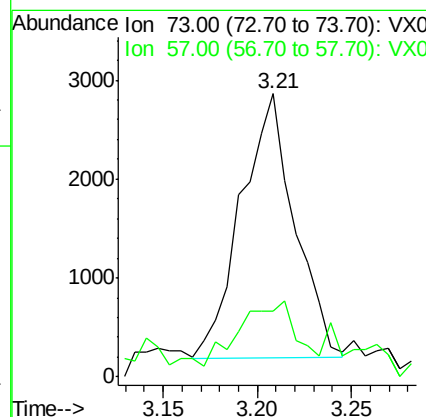
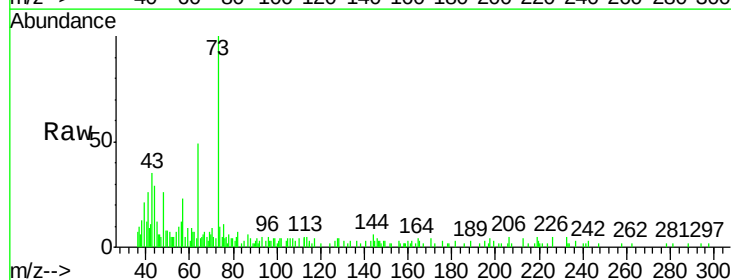
Instrument :
MSVOA_X
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M1-T2-OZ(PRE)

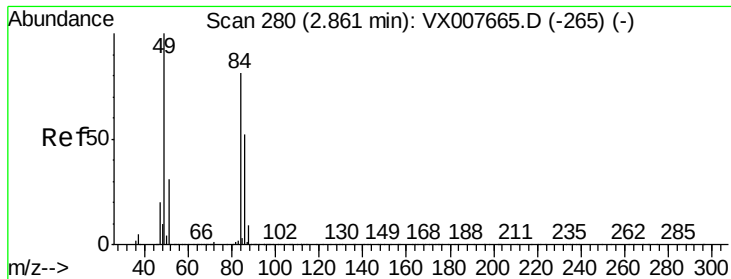
Tot Ion: 43 Resp: 2153
Ion Ratio Lower Upper
43 100
74 6.4 19.4 29.2#



#19
Methyl tert-butyl Ether
Concen: 0.490 ug/l
RT: 3.21 min Scan# 337
Delta R.T. 0.01 min
Lab File: VX007695.D
Acq: 26 Feb 2019 05:08

Tgt Ion: 73 Resp: 5265
Ion Ratio Lower Upper
73 100
57 18.2 17.8 26.8

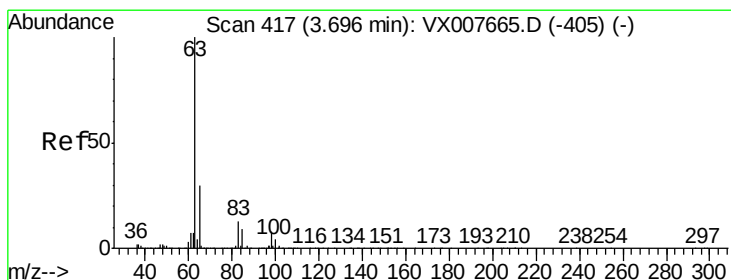
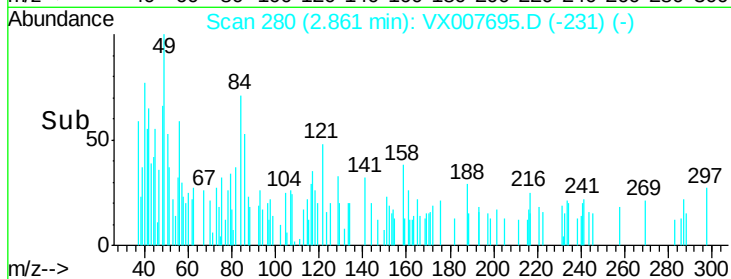
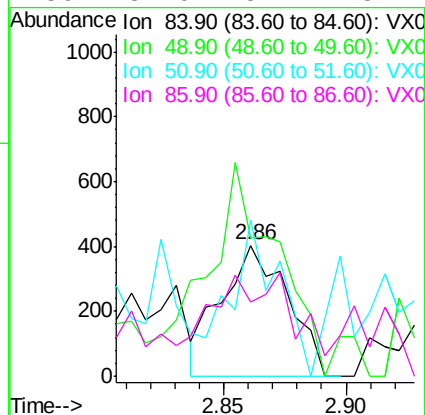
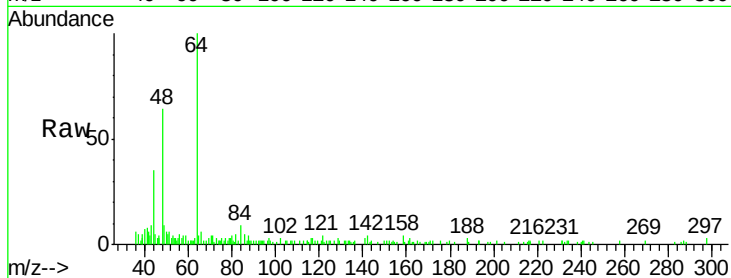




#20
Methylene Chloride
Concen: 0.213 ug/l
RT: 2.86 min Scan# 280
Delta R.T. 0.00 min
Lab File: VX007695.D
Acq: 26 Feb 2019 05:08

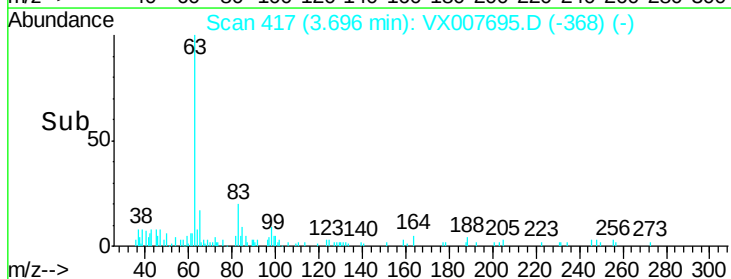
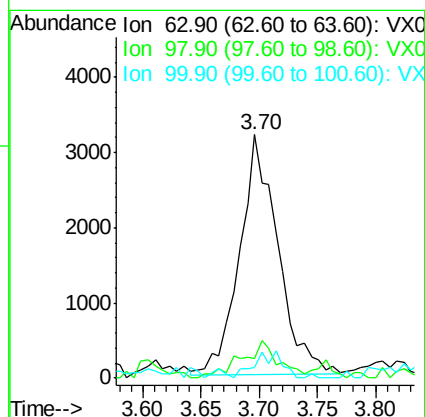
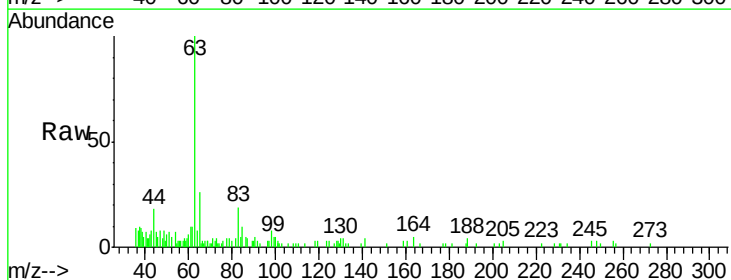
Instrument :
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M1-T2-OZ(PRE)

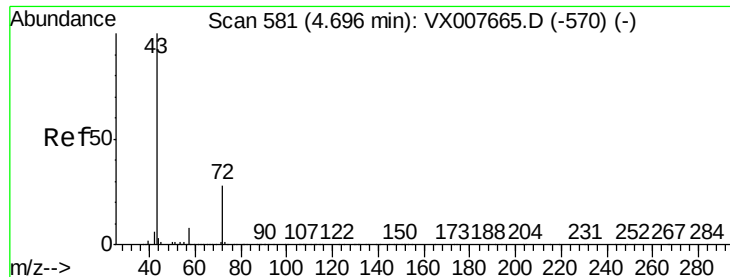
Tot Ion: 84 Resp: 762
Ion Ratio Lower Upper
84 100
49 93.8 94.8 142.2#
51 107.7 29.8 44.8#
86 31.0 54.1 81.1#



#24
1,1-Dichloroethane
Concen: 1.138 ug/l
RT: 3.70 min Scan# 417
Delta R.T. 0.00 min
Lab File: VX007695.D
Acq: 26 Feb 2019 05:08

Tgt Ion: 63 Resp: 7343
Ion Ratio Lower Upper
63 100
98 8.3 3.6 10.8
100 4.7 2.5 7.4





#25

2-Butanone

Concen: 1.456 ug/l

RT: 4.70 min Scan# 582

Delta R.T. 0.01 min

Lab File: VX007695.D

Acq: 26 Feb 2019 05:08

Instrument :

MSVOA_X

ClientSampleId :

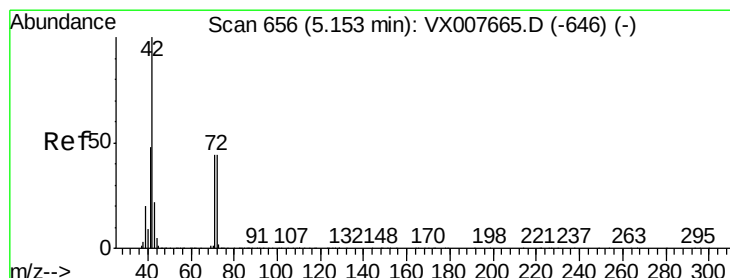
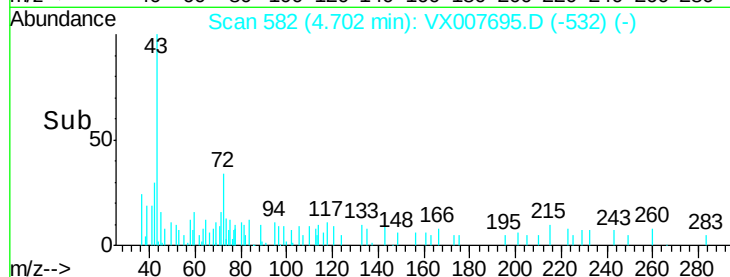
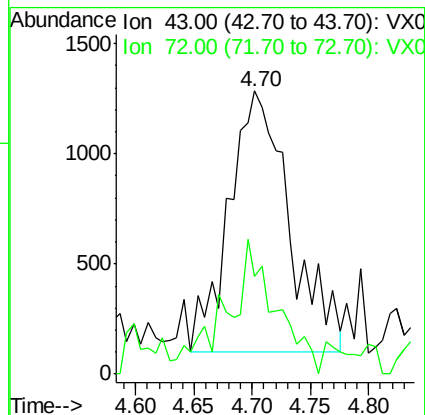
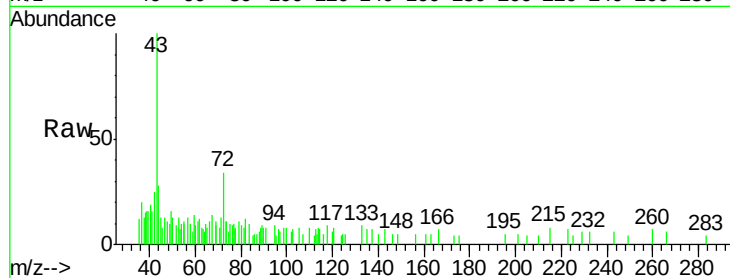
M1-T2-OZ(PRE)

Tot Ion: 43 Resp: 4306

Ion Ratio Lower Upper

43 100

72 29.0 22.2 33.2



#29

Tetrahydrofuran

Concen: 1.939 ug/l

RT: 5.17 min Scan# 658

Delta R.T. 0.01 min

Lab File: VX007695.D

Acq: 26 Feb 2019 05:08

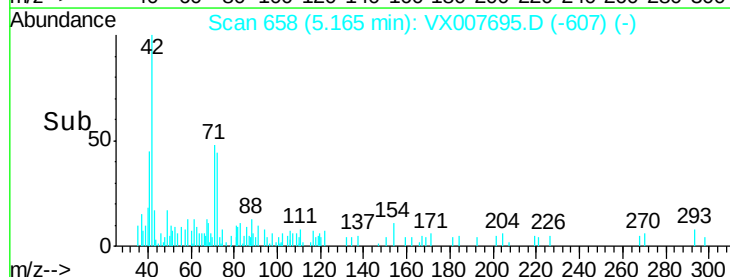
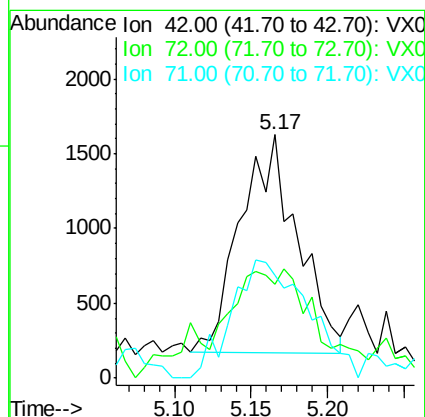
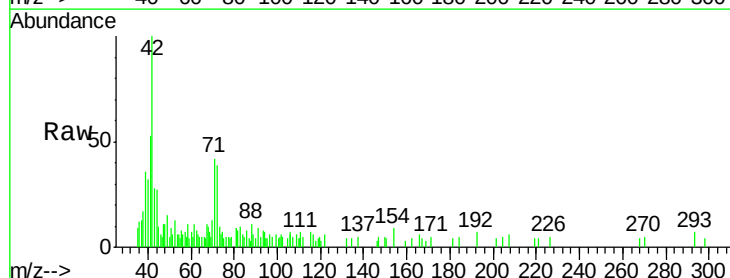
Tgt Ion: 42 Resp: 3780

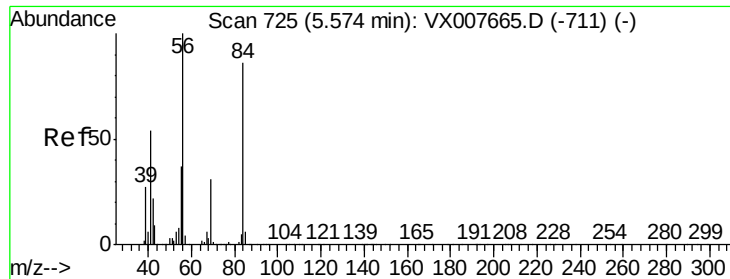
Ion Ratio Lower Upper

42 100

72 72.9 37.6 56.4#

71 71.9 34.6 51.8#

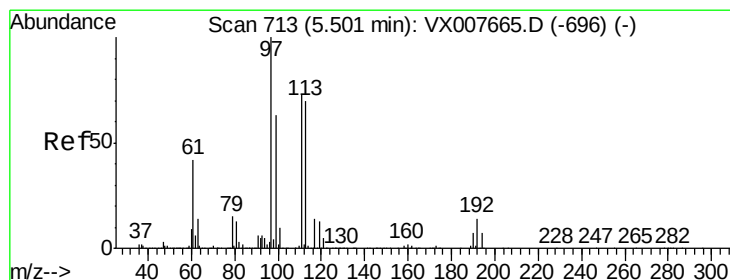
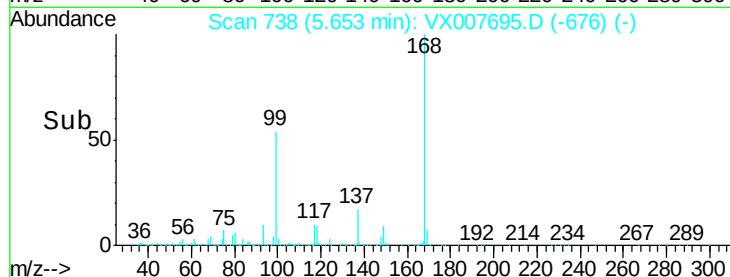
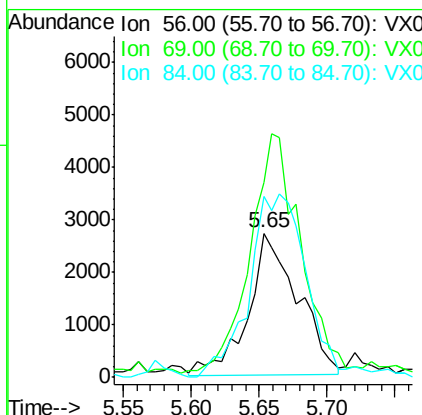
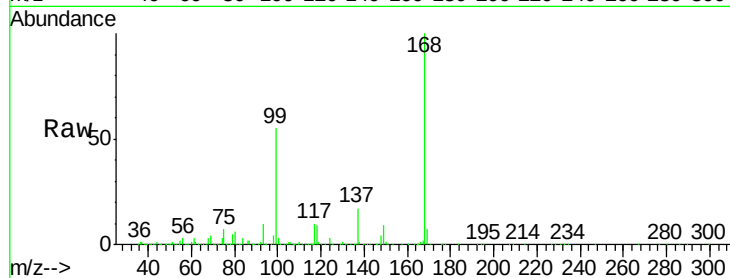




#31
Cyclohexane
Concen: 1.138 ug/l
RT: 5.65 min Scan# 738
Delta R.T. 0.08 min
Lab File: VX007695.D
Acq: 26 Feb 2019 05:08

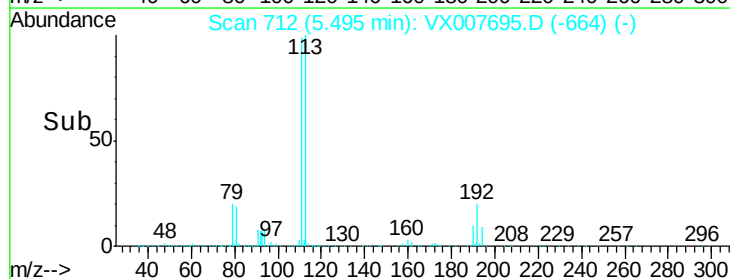
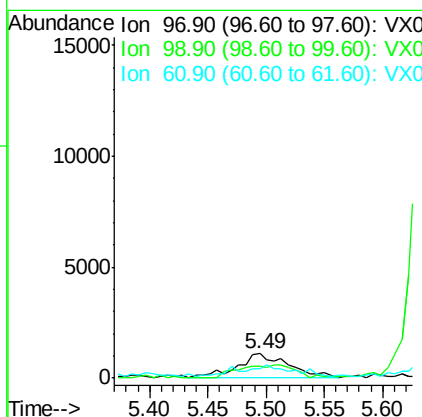
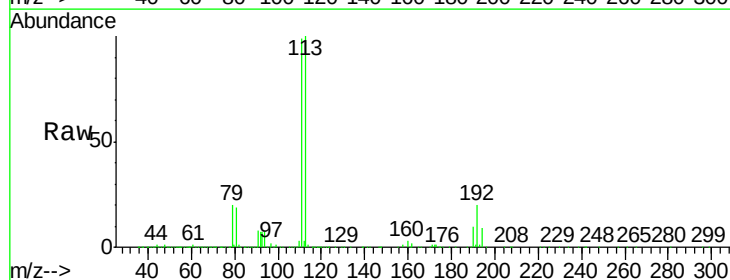
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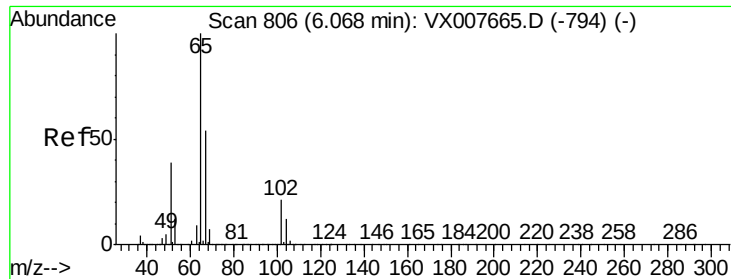
Tot Ion: 56 Resp: 6906
Ion Ratio Lower Upper
56 100
69 133.6 23.0 34.6#
84 128.2 69.8 104.6#



#32
1,1,1-Trichloroethane
Concen: 0.603 ug/l
RT: 5.49 min Scan# 712
Delta R.T. -0.01 min
Lab File: VX007695.D
Acq: 26 Feb 2019 05:08

Tgt Ion: 97 Resp: 3445
Ion Ratio Lower Upper
97 100
99 0.0 52.2 78.2#
61 17.4 32.7 49.1#

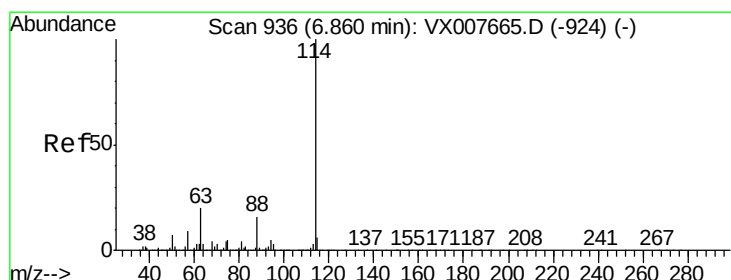
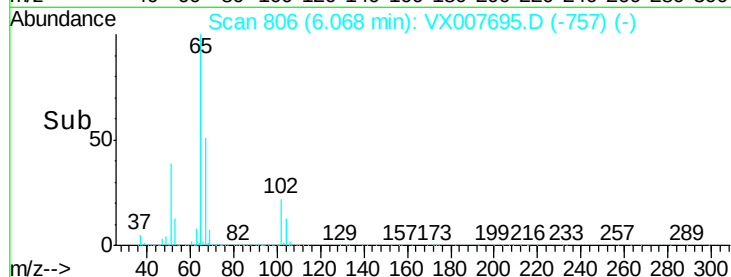
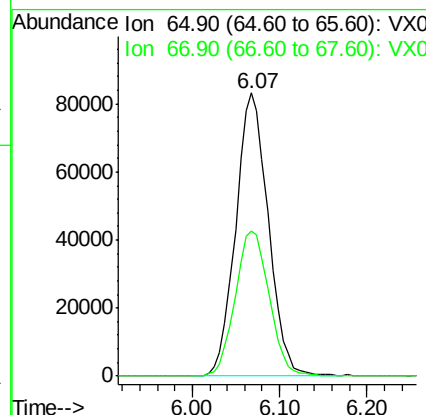
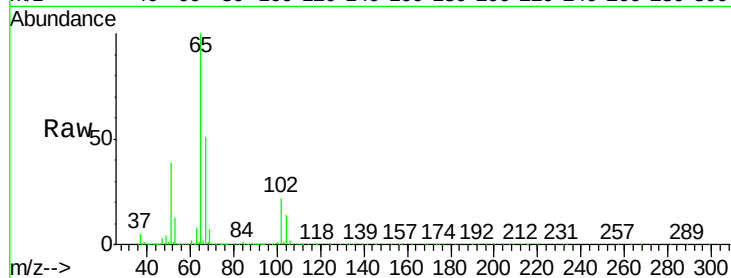




#33
 1,2-Dichloroethane-d4
 Concen: 49.268 ug/l
 RT: 6.07 min Scan# 806
 Delta R.T. 0.00 min
 Lab File: VX007695.D
 Acq: 26 Feb 2019 05:08

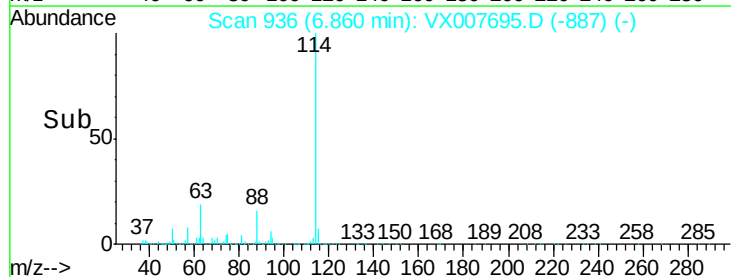
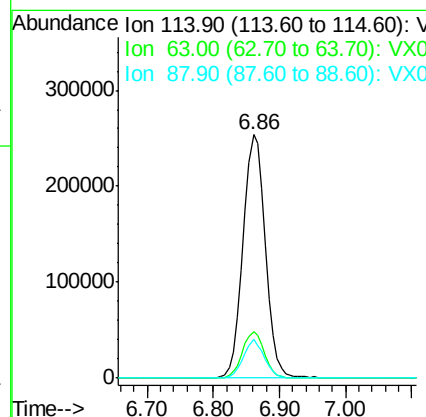
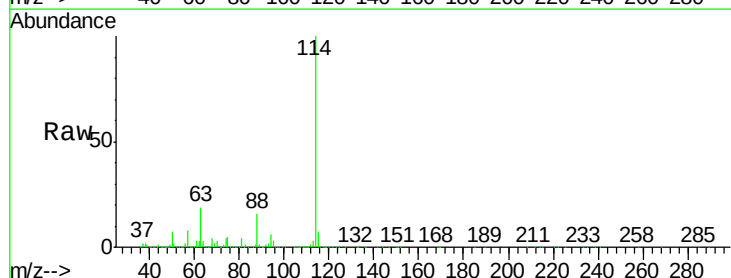
Instrument :
 MSVOA_X
 ClientSampleId :
 M1-T2-OZ(PRE)

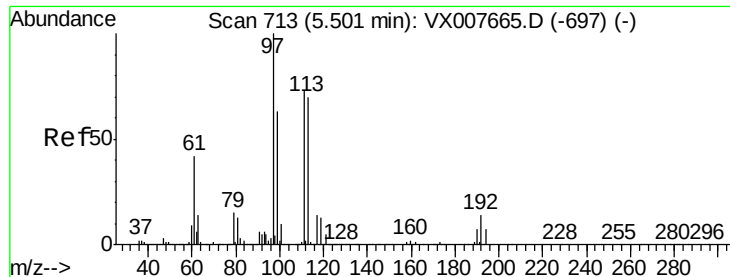
Tot Ion: 65 Resp: 215123
 Ion Ratio Lower Upper
 65 100
 67 53.6 0.0 108.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. 0.00 min
 Lab File: VX007695.D
 Acq: 26 Feb 2019 05:08

Tgt Ion: 114 Resp: 596819
 Ion Ratio Lower Upper
 114 100
 63 19.1 0.0 35.6
 88 15.7 0.0 29.6





#35

Dibromofluoromethane

Concen: 49.885 ug/l

RT: 5.50 min Scan# 713

Delta R.T. 0.00 min

Lab File: VX007695.D

Acq: 26 Feb 2019 05:08

Instrument :

MSVOA_X

ClientSampleId :

M1-T2-OZ(PRE)

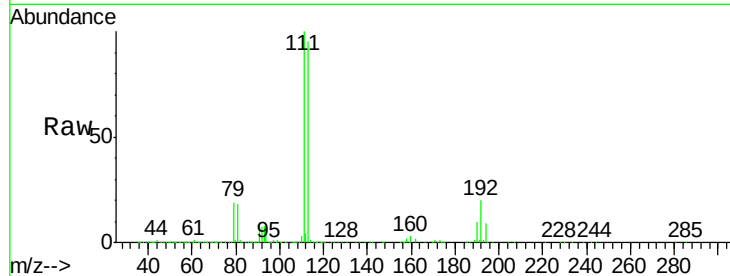
Tot Ion:113 Resp: 199019

Ion Ratio Lower Upper

113 100

111 102.6 81.8 122.8

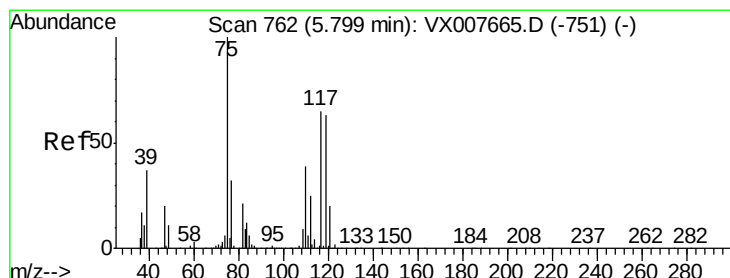
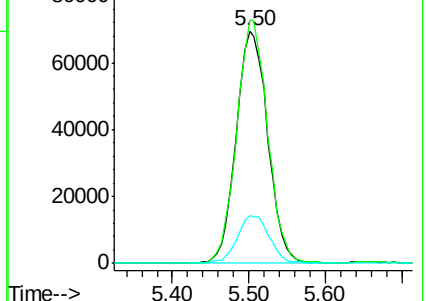
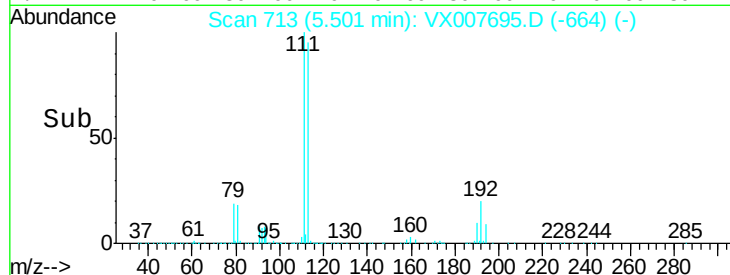
192 20.9 18.5 27.7



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: 4.236 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.13 min

Lab File: VX007695.D

Acq: 26 Feb 2019 05:08

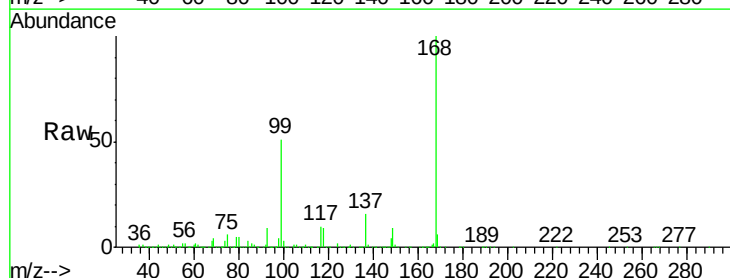
Tgt Ion: 75 Resp: 22731

Ion Ratio Lower Upper

75 100

110 11.0 20.0 59.9#

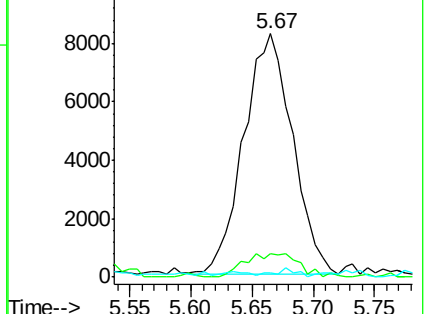
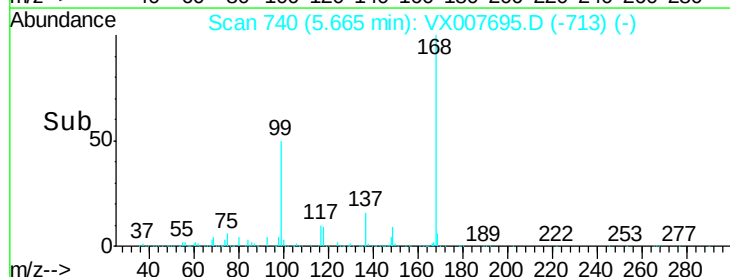
77 1.7 24.7 37.1#

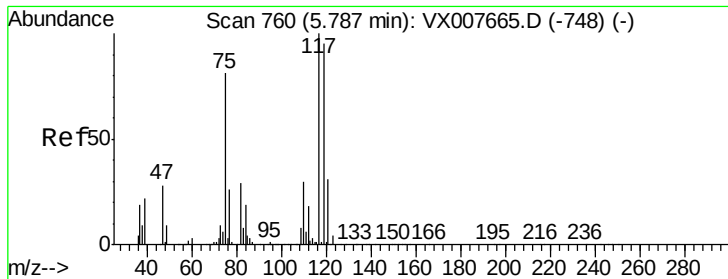


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.009 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX007695.D

Acq: 26 Feb 2019 05:08

Instrument :

MSVOA_X

ClientSampleId :

M1-T2-OZ(PRE)

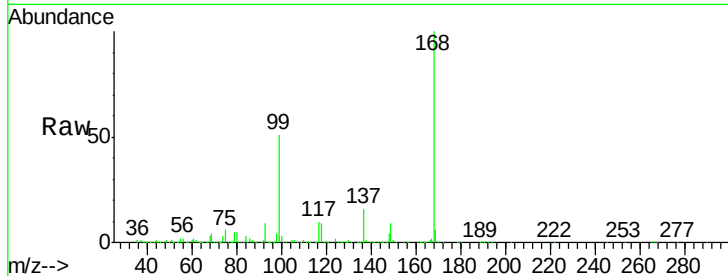
Tot Ion:117 Resp: 32388

Ion Ratio Lower Upper

117 100

119 3.2 75.3 112.9#

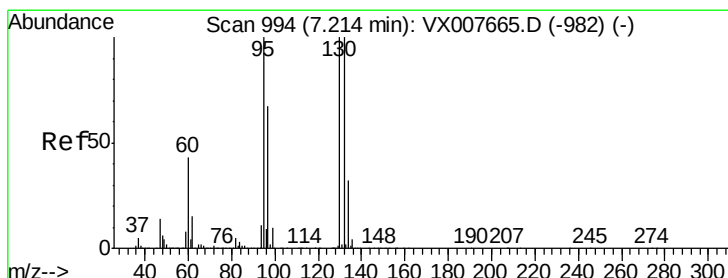
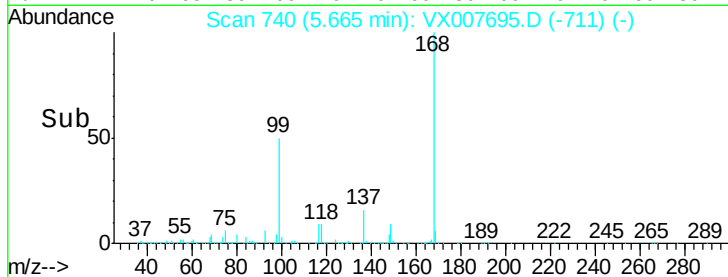
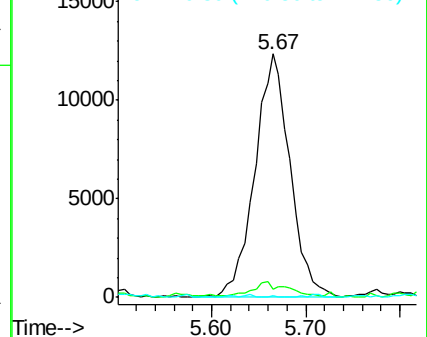
121 0.7 25.0 37.4#



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: 1.315 ug/l

RT: 7.21 min Scan# 994

Delta R.T. 0.00 min

Lab File: VX007695.D

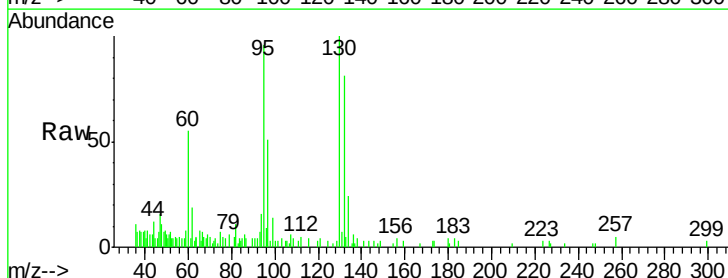
Acq: 26 Feb 2019 05:08

Tgt Ion:130 Resp: 5990

Ion Ratio Lower Upper

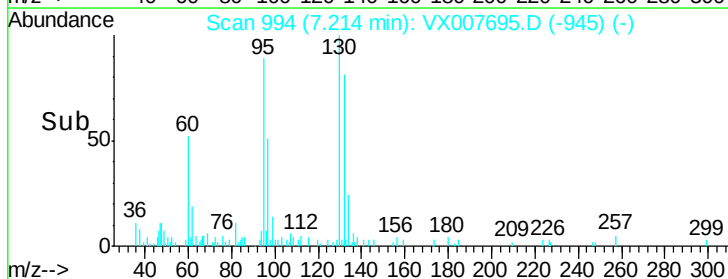
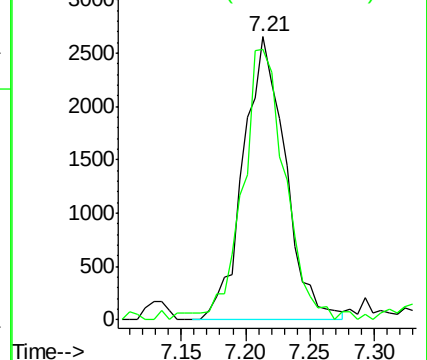
130 100

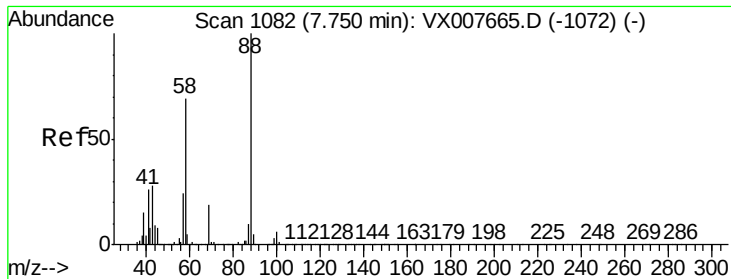
95 93.1 0.0 180.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

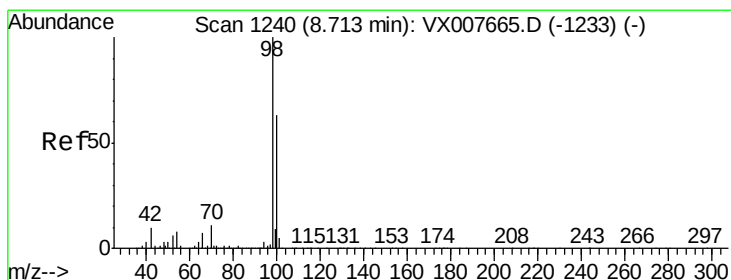
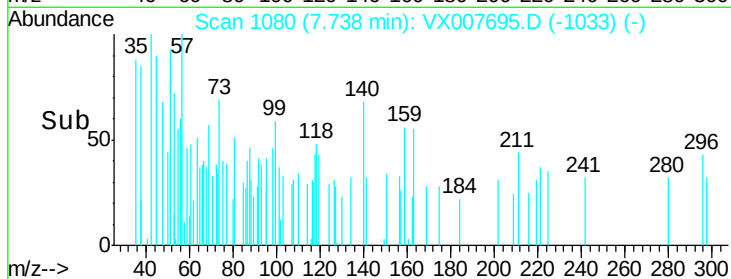
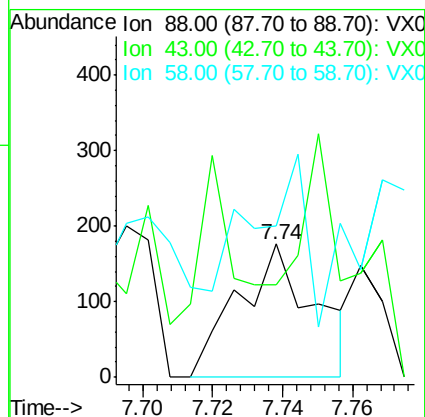
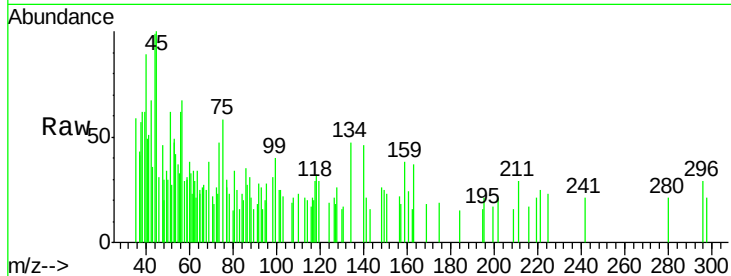




#49
1,4-Dioxane
Concen: 2.542 ug/l
RT: 7.74 min Scan# 1080
Delta R.T. -0.01 min
Lab File: VX007695.D
Acq: 26 Feb 2019 05:08

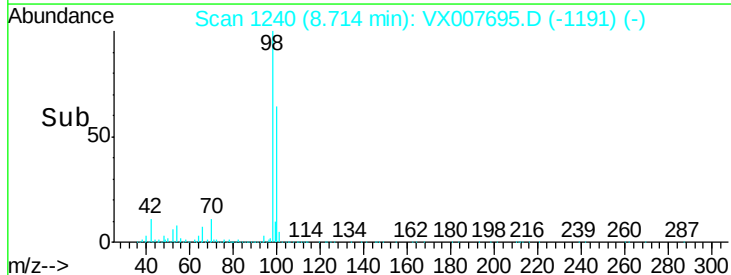
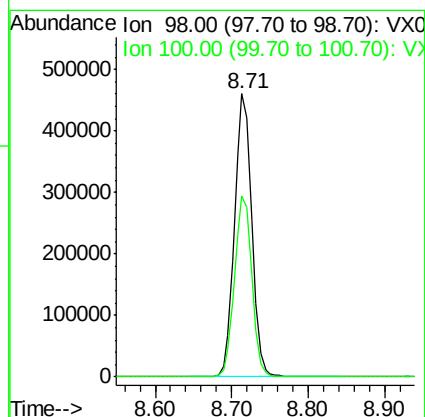
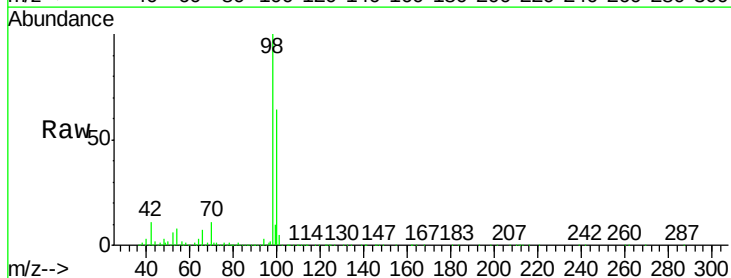
Instrument :
MSVOA_X
ClientSampleId :
M1-T2-OZ(PRE)

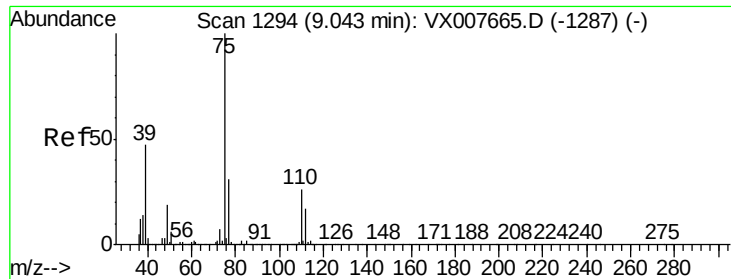
Tot Ion: 88 Resp: 264
Ion Ratio Lower Upper
88 100
43 128.8 24.2 36.4#
58 89.4 53.0 79.4#



#50
Toluene-d8
Concen: 46.878 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. 0.00 min
Lab File: VX007695.D
Acq: 26 Feb 2019 05:08

Tgt Ion: 98 Resp: 715997
Ion Ratio Lower Upper
98 100
100 64.3 51.6 77.4





#53

t-1,3-Dichloropropene

Concen: 2.838 ug/l

RT: 9.05 min Scan# 1295

Delta R.T. 0.01 min

Lab File: VX007695.D

Acq: 26 Feb 2019 05:08

Instrument :

MSVOA_X

ClientSampleId :

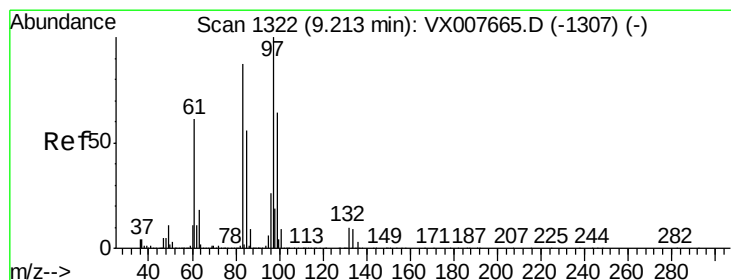
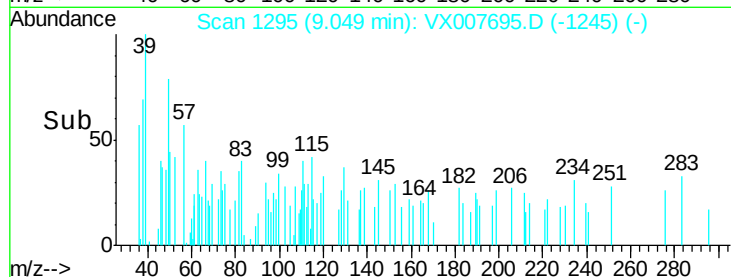
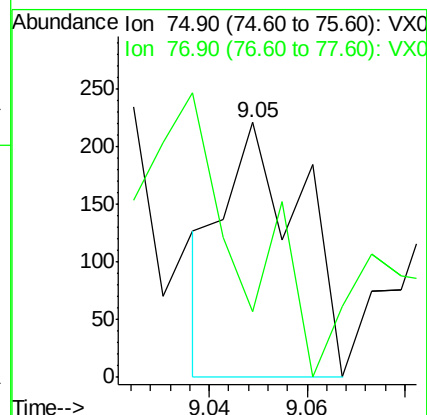
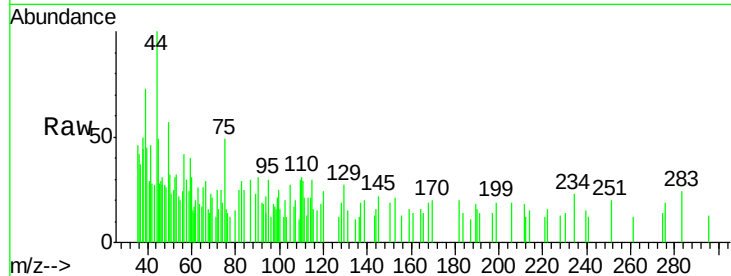
M1-T2-OZ(PRE)

Tot Ion: 75 Resp: 242

Ion Ratio Lower Upper

75 100

77 0.0 25.2 37.8#



#55

1,1,2-Trichloroethane

Concen: 0.208 ug/l

RT: 9.22 min Scan# 1323

Delta R.T. 0.01 min

Lab File: VX007695.D

Acq: 26 Feb 2019 05:08

Tgt Ion: 97 Resp: 906

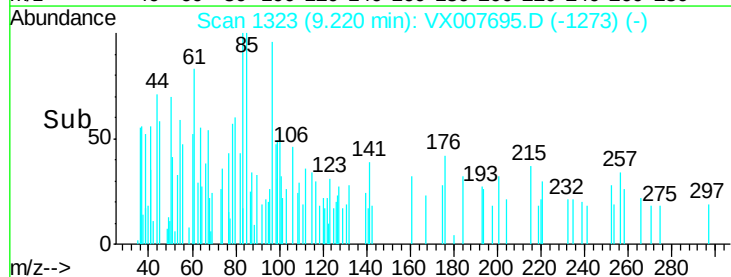
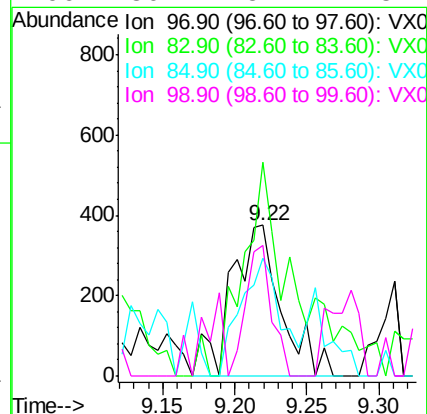
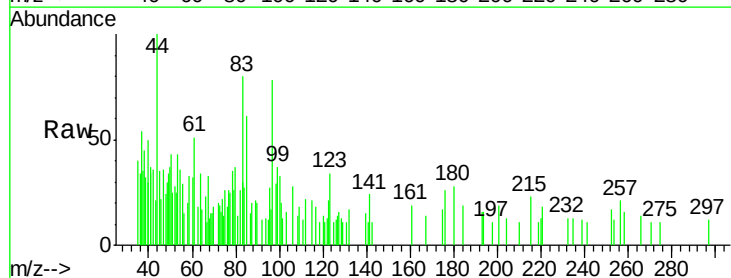
Ion Ratio Lower Upper

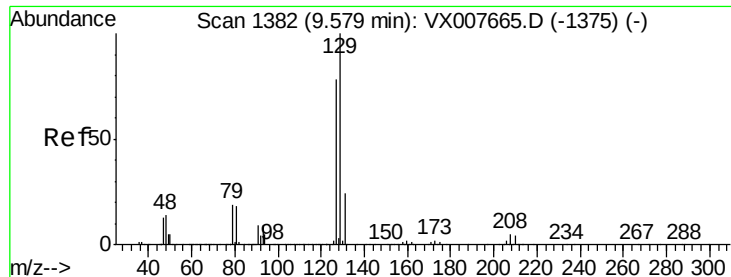
97 100

83 141.5 68.6 102.8#

85 62.2 44.5 66.7

99 86.2 52.2 78.4#





#60

Dibromochloromethane

Concen: 1.156 ug/l

RT: 9.34 min Scan# 1342

Delta R.T. -0.24 min

Lab File: VX007695.D

Acq: 26 Feb 2019 05:08

Instrument :

MSVOA_X

ClientSampleId :

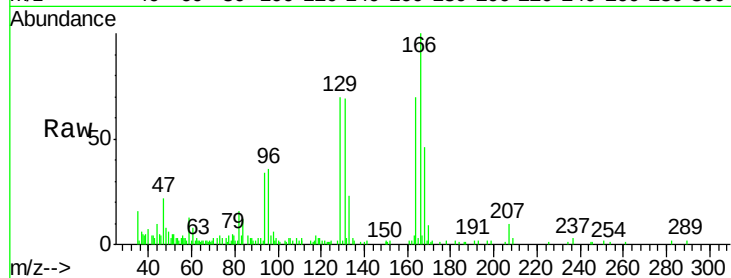
M1-T2-OZ(PRE)

Tot Ion:129 Resp: 4846

Ion Ratio Lower Upper

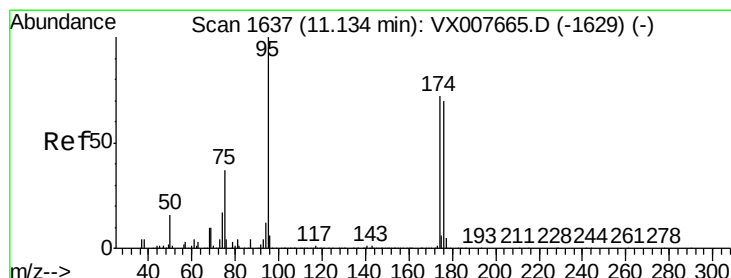
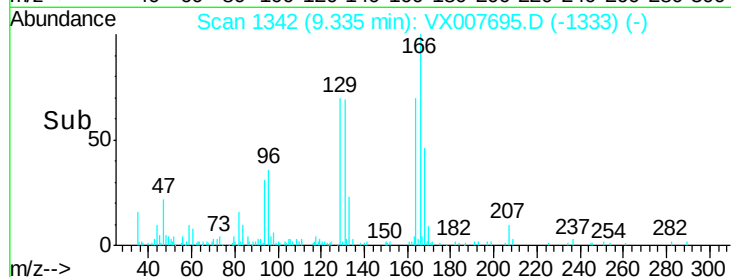
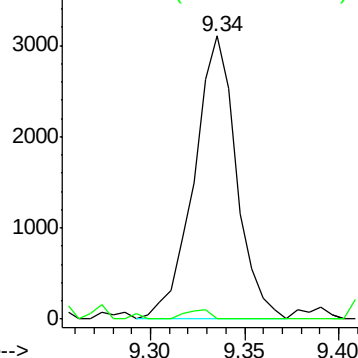
129 100

127 2.0 37.8 113.4#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V



#62

4-Bromofluorobenzene

Concen: 44.844 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX007695.D

Acq: 26 Feb 2019 05:08

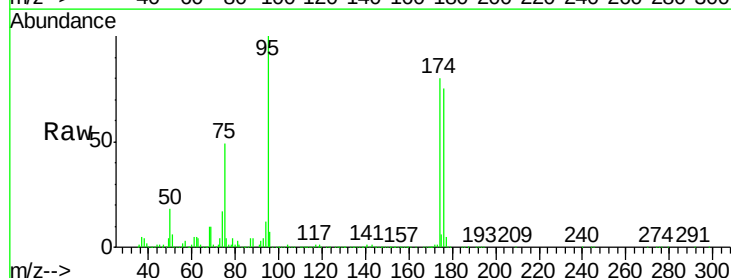
Tgt Ion: 95 Resp: 251392

Ion Ratio Lower Upper

95 100

174 85.9 0.0 189.2

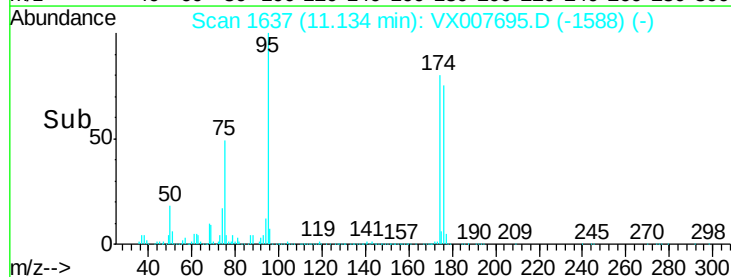
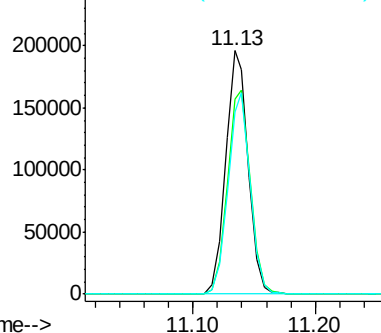
176 81.9 0.0 186.2

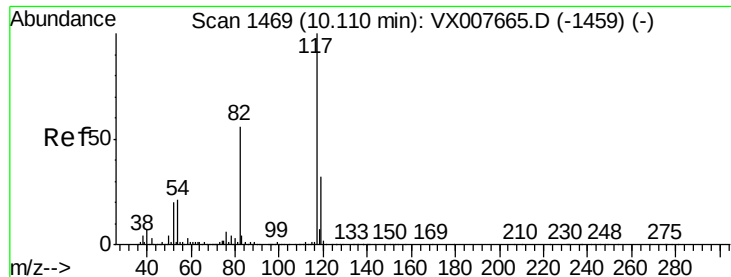


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

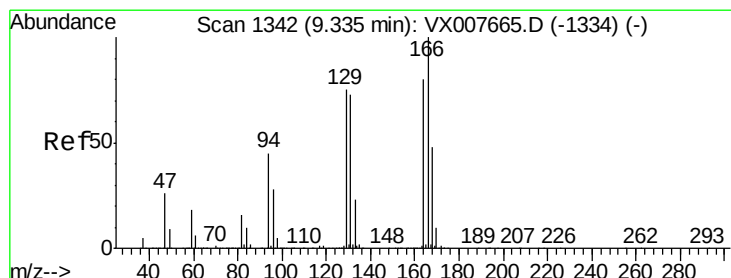
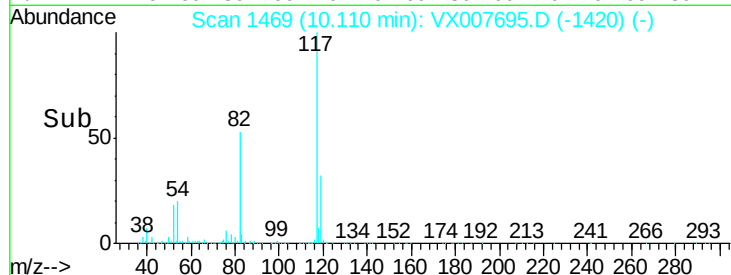
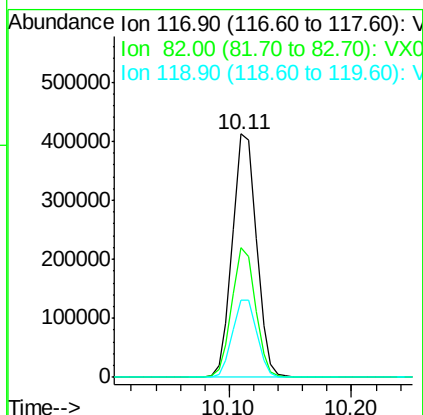
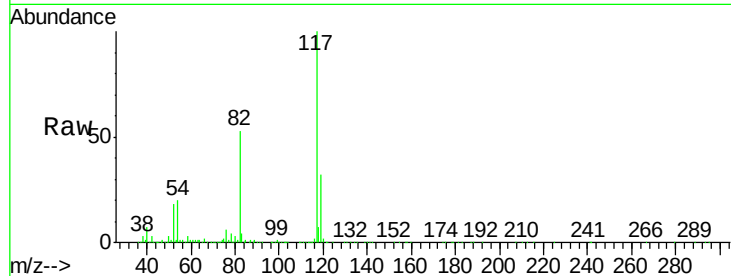




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VX007695.D
Acq: 26 Feb 2019 05:08

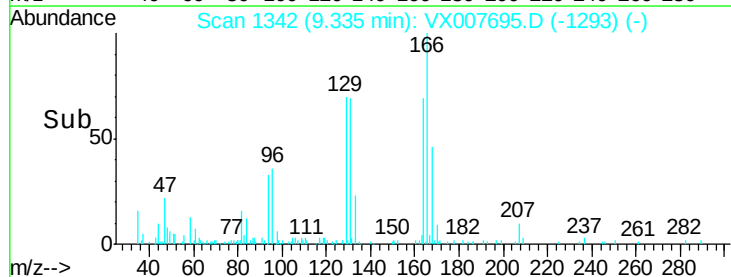
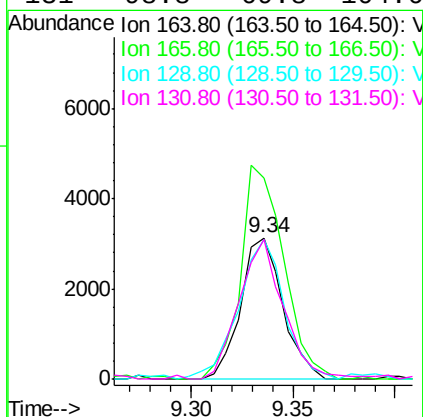
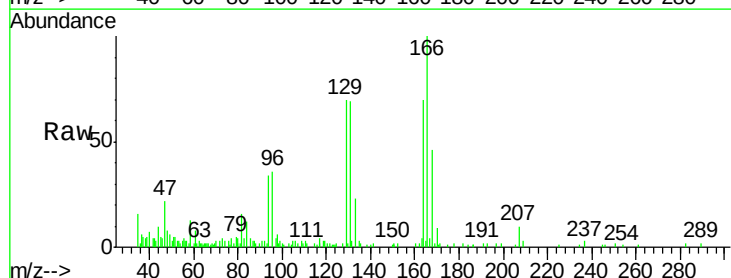
Instrument :
MSVOA_X
ClientSampleId :
M1-T2-OZ(PRE)

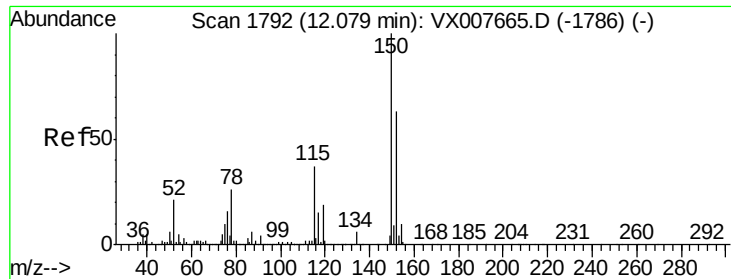
Tot Ion:117 Resp: 561451
Ion Ratio Lower Upper
117 100
82 53.5 42.1 63.1
119 31.6 26.5 39.7



#64
Tetrachloroethene
Concen: 0.988 ug/l
RT: 9.34 min Scan# 1342
Delta R.T. 0.00 min
Lab File: VX007695.D
Acq: 26 Feb 2019 05:08

Tgt Ion:164 Resp: 4501
Ion Ratio Lower Upper
164 100
166 142.2 101.0 151.4
129 98.9 70.5 105.7
131 98.8 69.8 104.6





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. 0.00 min

Lab File: VX007695.D

Acq: 26 Feb 2019 05:08

Instrument :

MSVOA_X

ClientSampleId :

M1-T2-OZ(PRE)

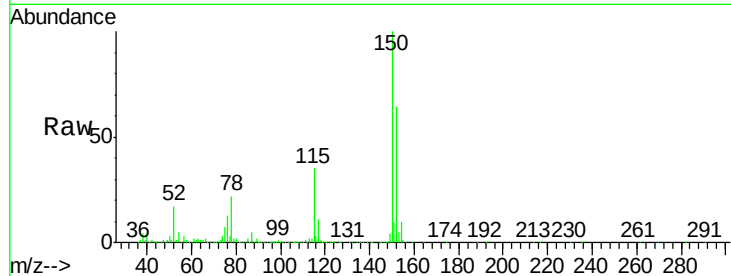
Tot Ion:152 Resp: 255945

Ion Ratio Lower Upper

152 100

115 56.3 38.0 114.0

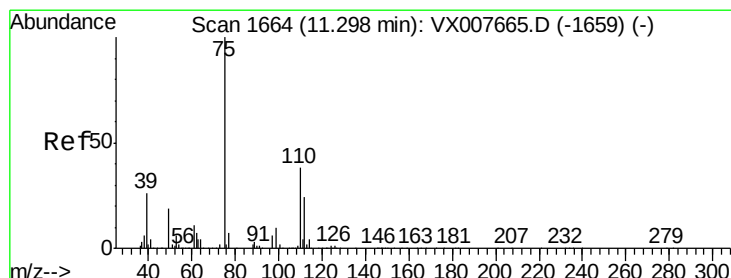
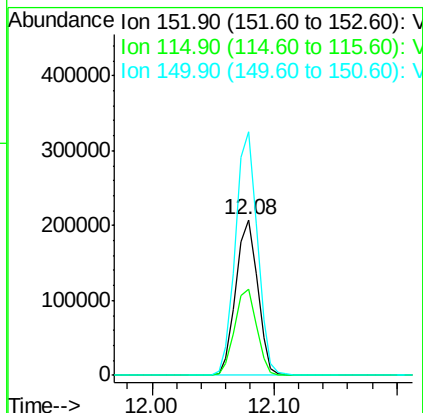
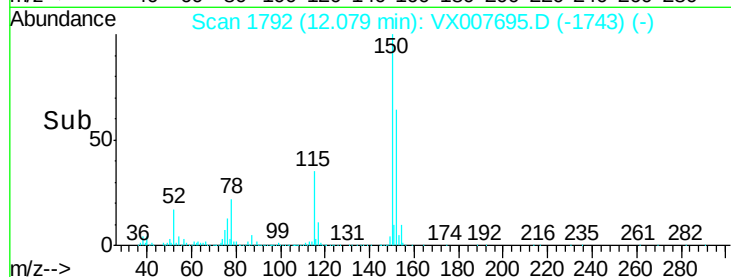
150 156.5 0.0 346.4



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: 22.204 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX007695.D

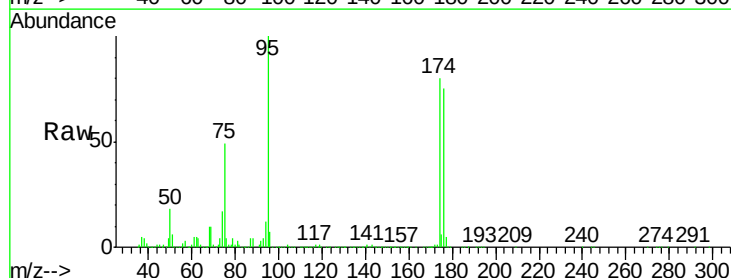
Acq: 26 Feb 2019 05:08

Tgt Ion: 75 Resp: 121137

Ion Ratio Lower Upper

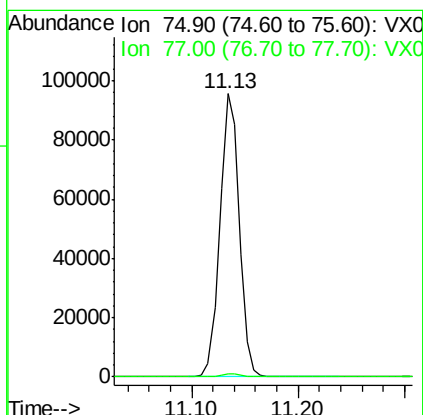
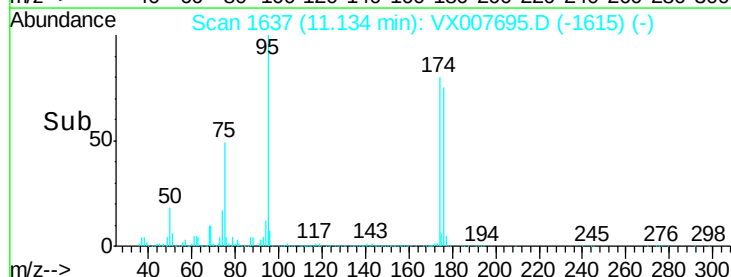
75 100

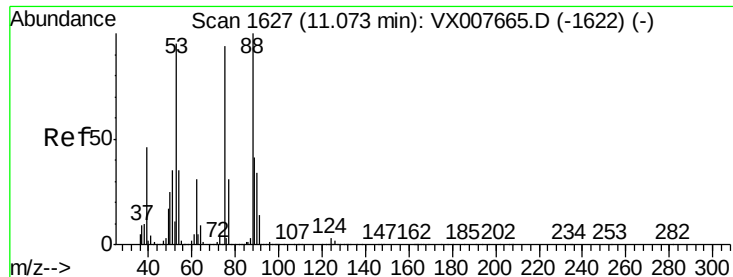
77 1.6 23.0 69.0#



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: 58.929 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX007695.D

Acq: 26 Feb 2019 05:08

Instrument :

MSVOA_X

ClientSampleId :

M1-T2-OZ(PRE)

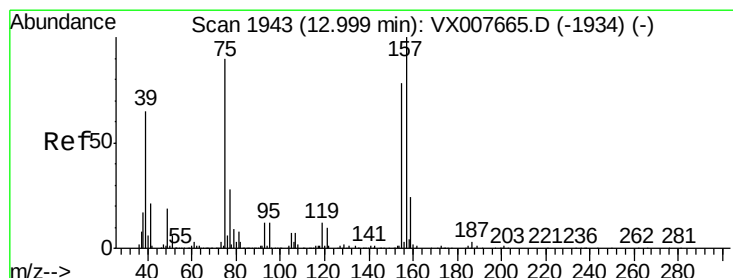
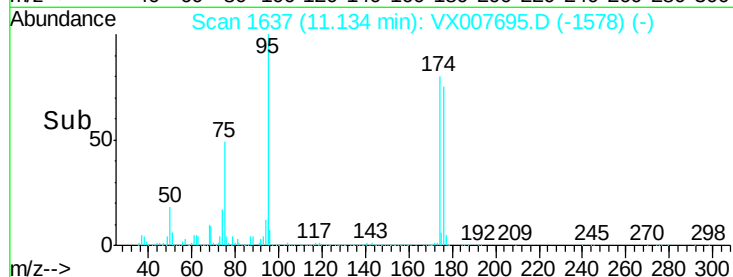
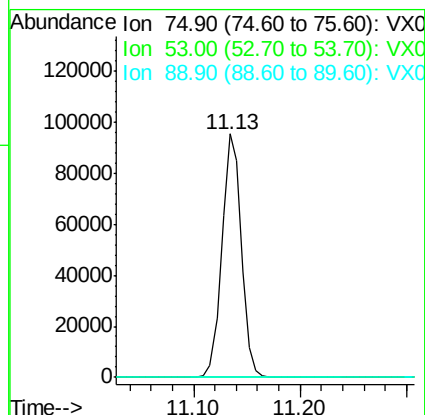
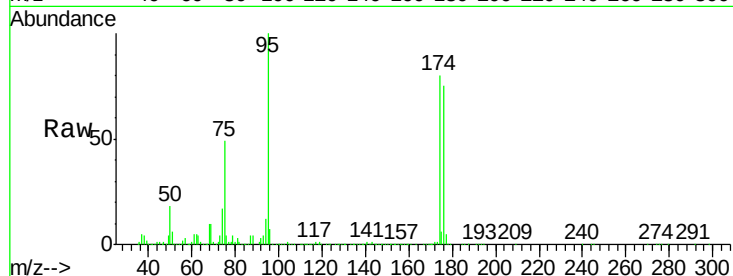
Tot Ion: 75 Resp: 121137

Ion Ratio Lower Upper

75 100

53 0.0 81.0 121.6#

89 0.1 41.4 62.0#



#92

1,2-Dibromo-3-Chloropropane

Concen: 0.202 ug/l

RT: 12.97 min Scan# 1939

Delta R.T. -0.02 min

Lab File: VX007695.D

Acq: 26 Feb 2019 05:08

Tgt Ion: 75 Resp: 278

Ion Ratio Lower Upper

75 100

155 0.0 49.6 149.0#

157 24.5 65.1 195.3#

