

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX091918\
 Data File : VX004706.D
 Acq On : 19 Sep 2018 15:26
 Operator : JC/MD
 Sample : J4939-04
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Sep 20 03:48:44 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X091118W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 12 02:17:23 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	219851	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	330906	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	303782	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	164934	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	129869	45.81	ug/l	0.00
Spiked Amount			Recovery	=	91.62%	
35) Dibromofluoromethane	5.50	113	129973	42.92	ug/l	0.00
Spiked Amount			Recovery	=	85.84%	
50) Toluene-d8	8.72	98	455627	44.87	ug/l	0.00
Spiked Amount			Recovery	=	89.74%	
62) 4-Bromofluorobenzene	11.14	95	156328	43.13	ug/l	0.00
Spiked Amount			Recovery	=	86.26%	

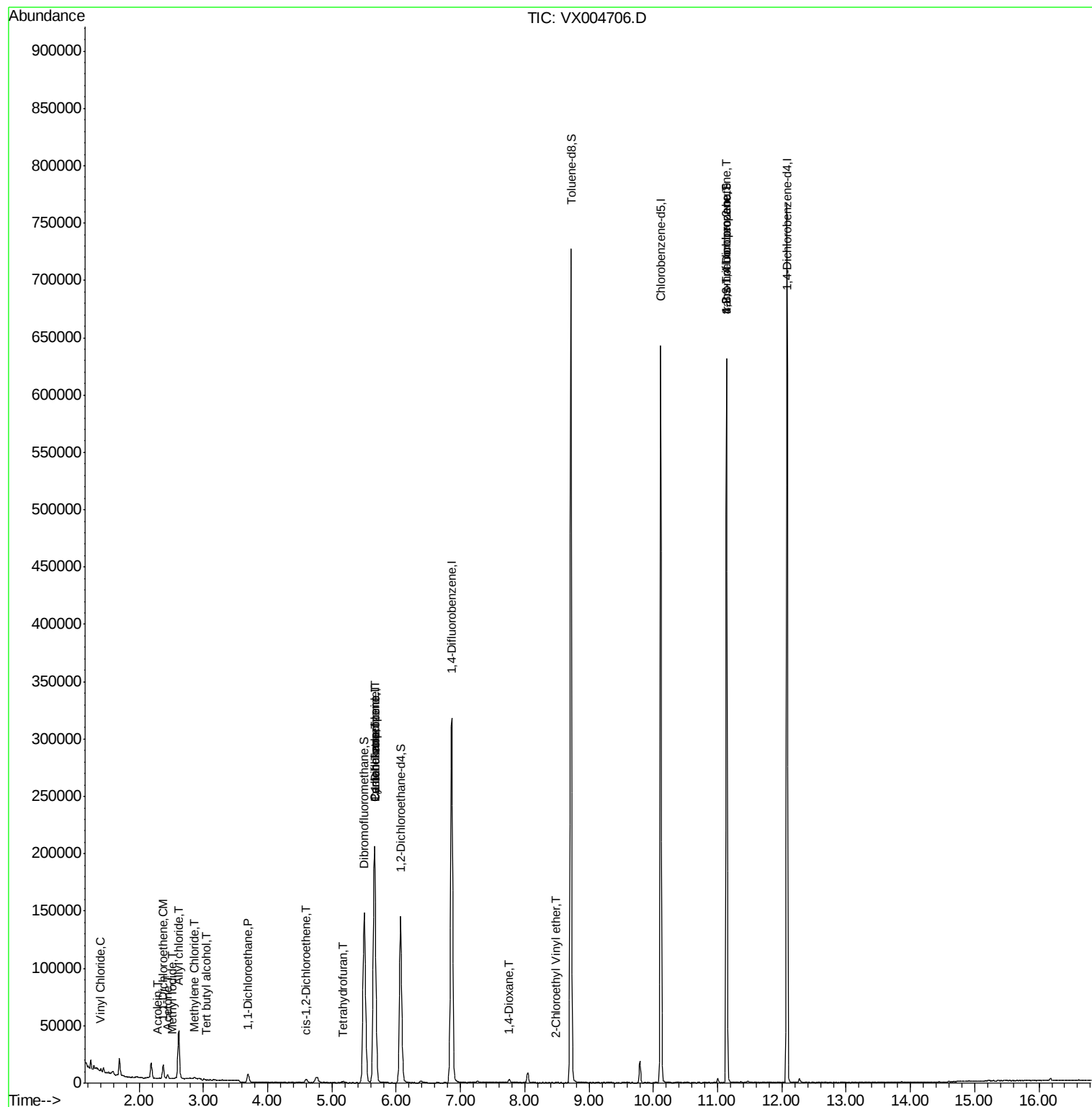
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Vinyl Chloride	1.40	62	1779	0.61	ug/l	92
5) Bromomethane	1.66	94	640	Below Cal		81
10) Methyl Iodide	2.52	142	574	4.44	ug/l #	92
11) Tert butyl alcohol	3.05	59	355	0.52	ug/l #	72
12) 1,1-Dichloroethene	2.37	96	3889	1.69	ug/l	94
13) Acrolein	2.29	56	82	0.31	ug/l #	1
14) Allyl chloride	2.61	41	4248	0.90	ug/l #	68
16) Acetone	2.45	43	4410	3.19	ug/l #	86
20) Methylene Chloride	2.86	84	737	0.26	ug/l #	70
24) 1,1-Dichloroethane	3.70	63	8203	1.71	ug/l	99
27) cis-1,2-Dichloroethene	4.59	96	1937	0.68	ug/l	97
29) Tetrahydrofuran	5.17	42	958	0.72	ug/l #	68
31) Cyclohexane	5.66	56	3283	0.80	ug/l #	1
36) 1,1-Dichloropropene	5.66	75	13784	3.43	ug/l #	46
38) Carbon Tetrachloride	5.67	117	18806	4.79	ug/l #	14
49) 1,4-Dioxane	7.76	88	2112	29.71	ug/l	96
58) 2-Chloroethyl Vinyl ether	8.48	63	83	7.31	ug/l #	45
76) 1,2,3-Trichloropropane	11.14	75	72304	21.79	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.14	75	72304	69.45	ug/l #	10

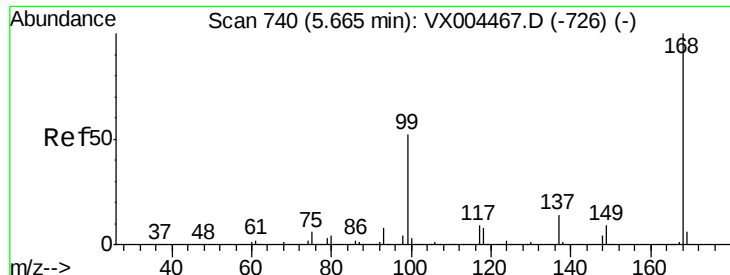
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.00 min

Lab File: VX004706.D

Acq: 19 Sep 2018 15:26

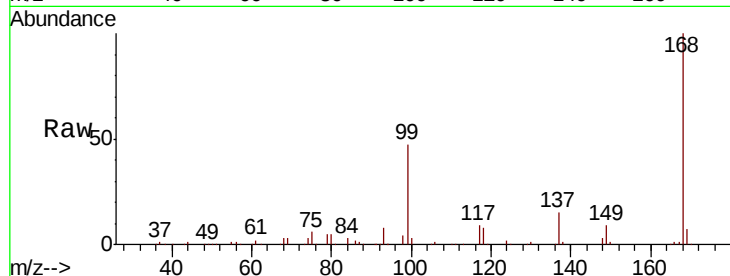
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:168 Resp: 219851

Ion Ratio Lower Upper

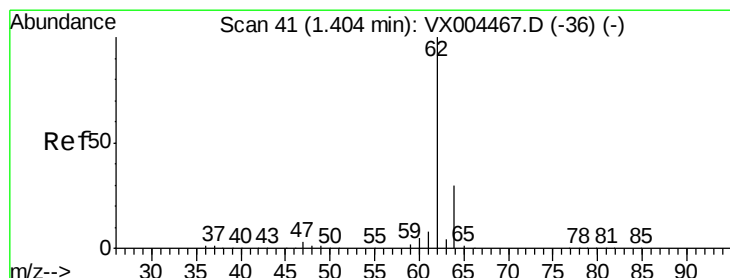
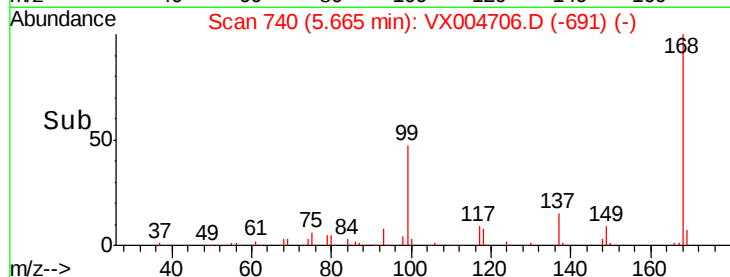
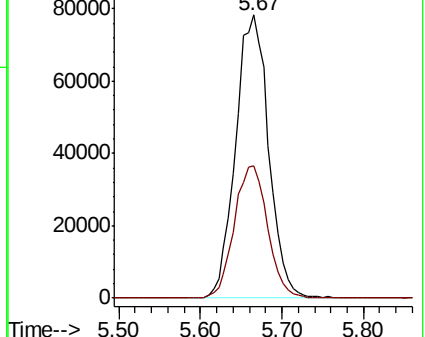
168 100

99 46.8 39.9 59.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#4

Vinyl Chloride

Concen: 0.61 ug/l

RT: 1.40 min Scan# 41

Delta R.T. -0.00 min

Lab File: VX004706.D

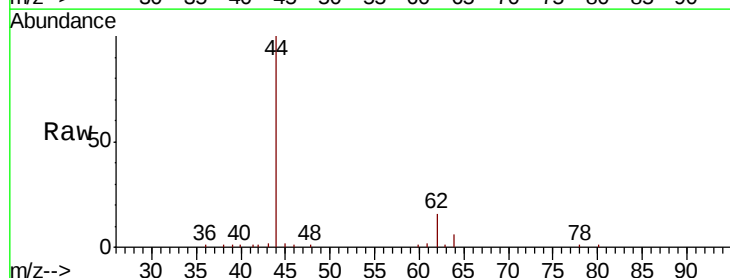
Acq: 19 Sep 2018 15:26

Tgt Ion: 62 Resp: 1779

Ion Ratio Lower Upper

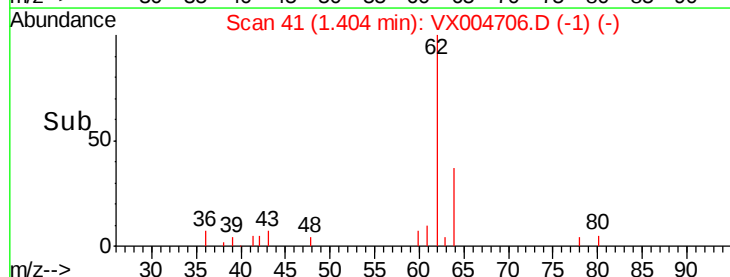
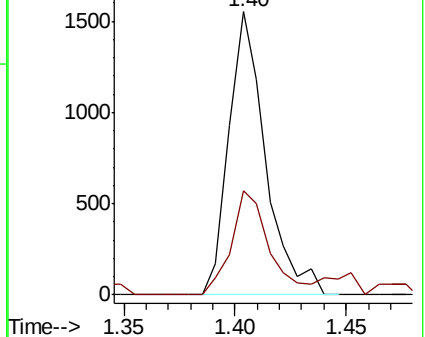
62 100

64 36.6 25.8 38.8



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0





#5

Bromomethane

Concen: Below Cal

RT: 1.66 min Scan# 83

Delta R.T. 0.02 min

Lab File: VX004706.D

Acq: 19 Sep 2018 15:26

Instrument :

MSVOA_X

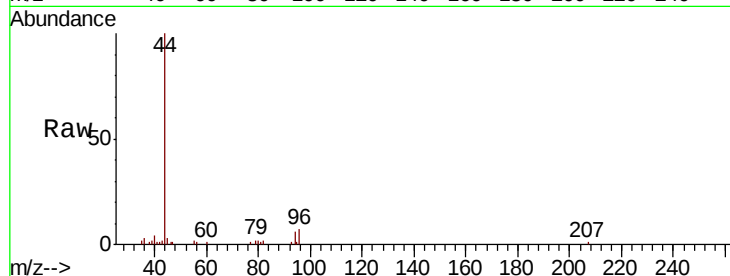
ClientSampleId :

Tot Ion: 94 Resp: 640

Ion Ratio Lower Upper

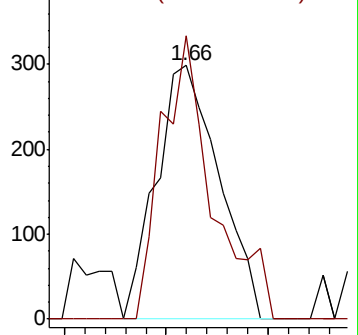
94 100

96 111.4 74.5 111.7

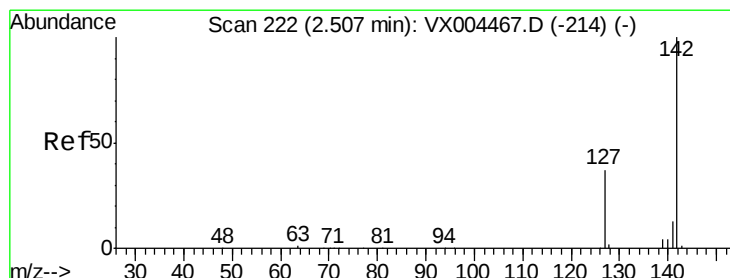
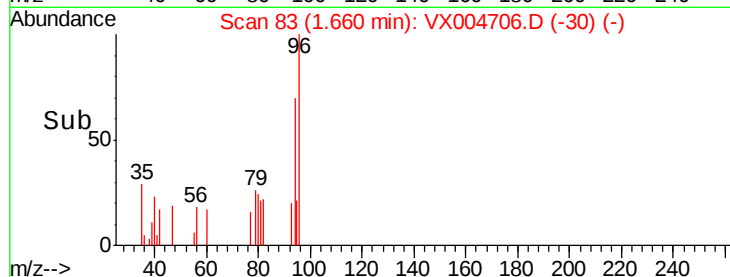


Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



Time--> 1.60 1.65 1.70



#10

Methyl Iodide

Concen: 4.44 ug/l

RT: 2.52 min Scan# 224

Delta R.T. 0.01 min

Lab File: VX004706.D

Acq: 19 Sep 2018 15:26

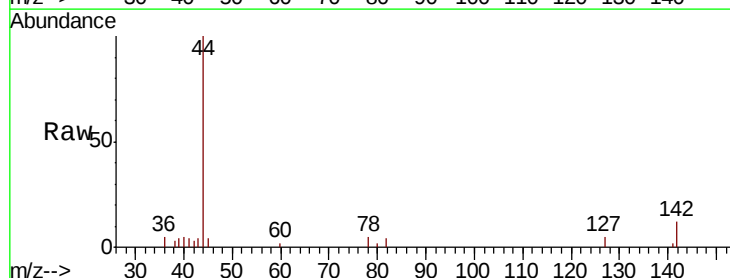
Tgt Ion: 142 Resp: 574

Ion Ratio Lower Upper

142 100

127 41.1 33.8 50.6

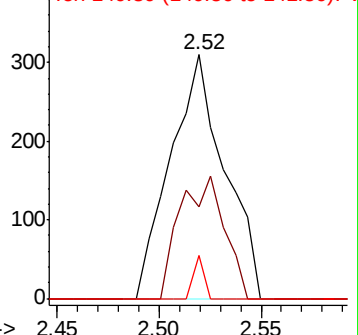
141 3.5 11.4 17.0#



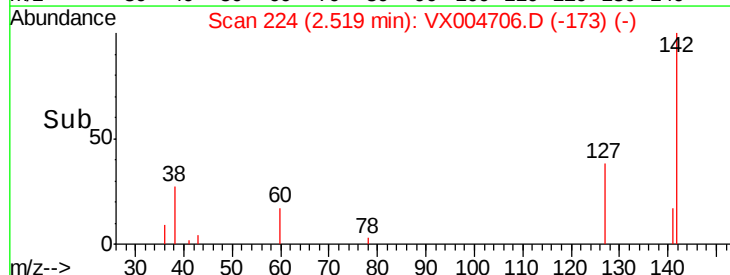
Abundance Ion 141.80 (141.50 to 142.50): V

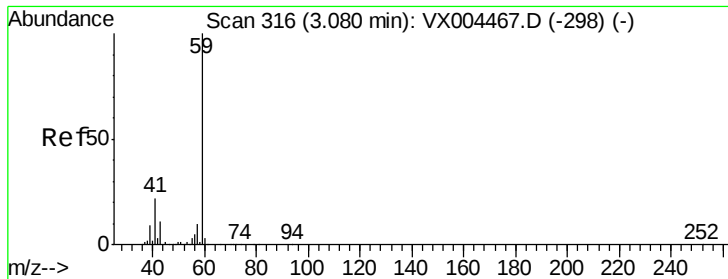
Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



Time--> 2.45 2.50 2.55

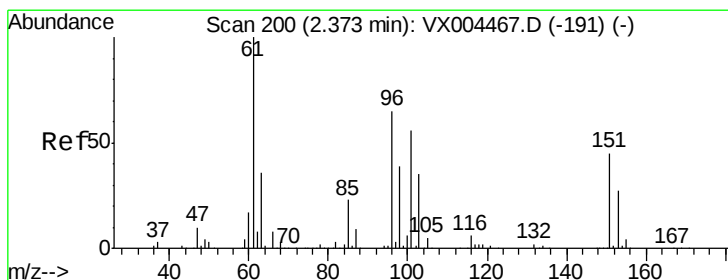
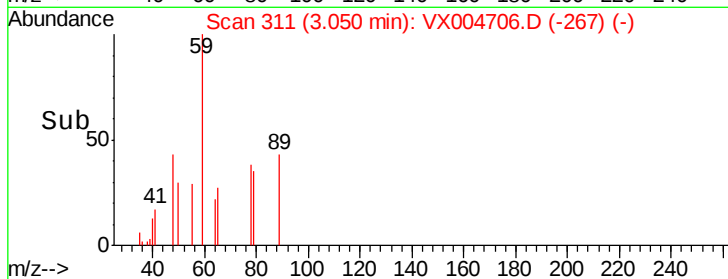
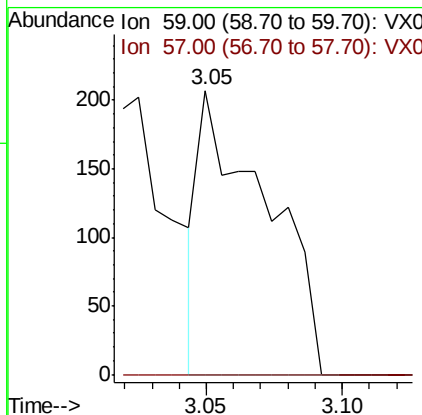
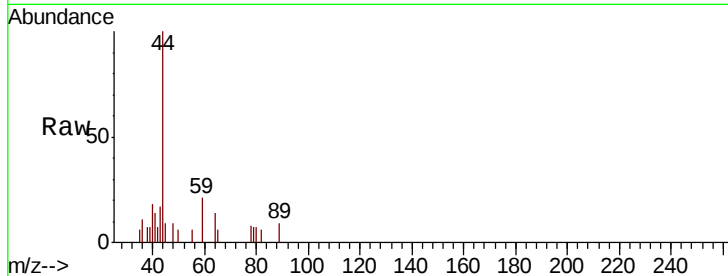




#11
Tert butyl alcohol
Concen: 0.52 ug/l
RT: 3.05 min Scan# 311
Delta R.T. -0.03 min
Lab File: VX004706.D
Acq: 19 Sep 2018 15:26

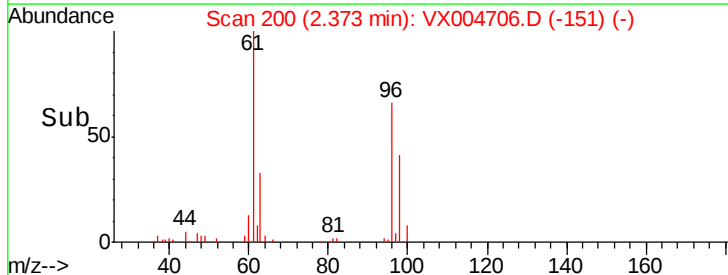
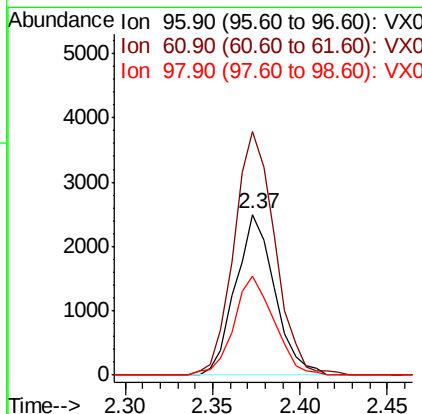
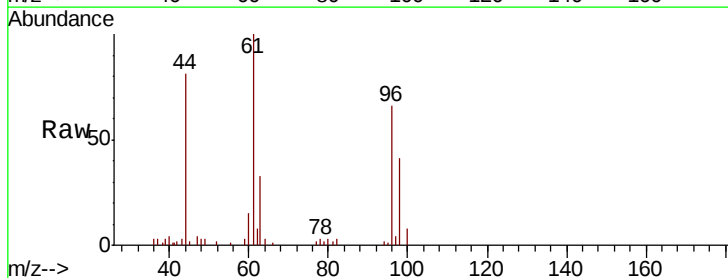
Instrument :
MSVOA_X
ClientSampleId :

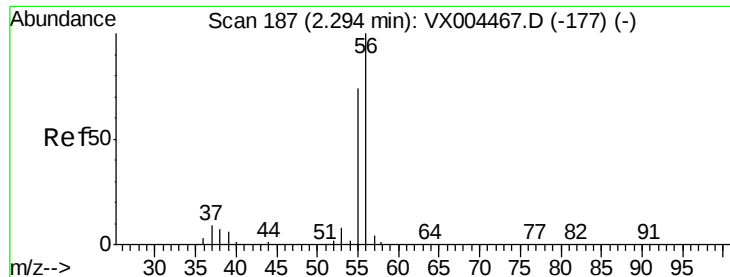
Tot Ion: 59 Resp: 355
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#



#12
1,1-Dichloroethene
Concen: 1.69 ug/l
RT: 2.37 min Scan# 200
Delta R.T. -0.00 min
Lab File: VX004706.D
Acq: 19 Sep 2018 15:26

Tgt Ion: 96 Resp: 3889
Ion Ratio Lower Upper
96 100
61 151.4 128.8 193.2
98 61.7 52.2 78.2





#13

Acrolein

Concen: 0.31 ug/l

RT: 2.29 min Scan# 186

Delta R.T. -0.01 min

Lab File: VX004706.D

Acq: 19 Sep 2018 15:26

Instrument :

MSVOA_X

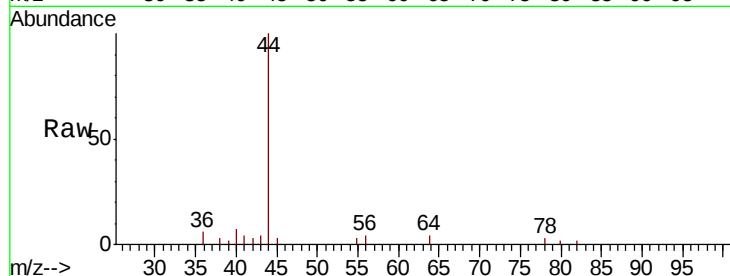
ClientSampled :

Tot Ion: 56 Resp: 82

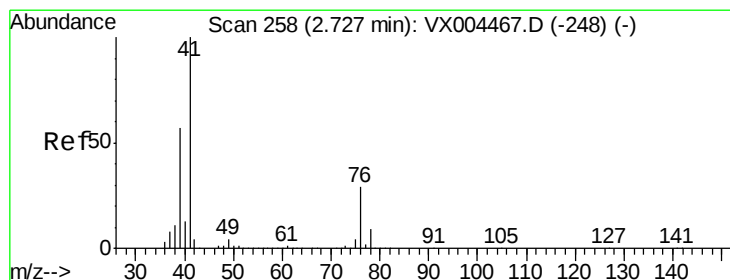
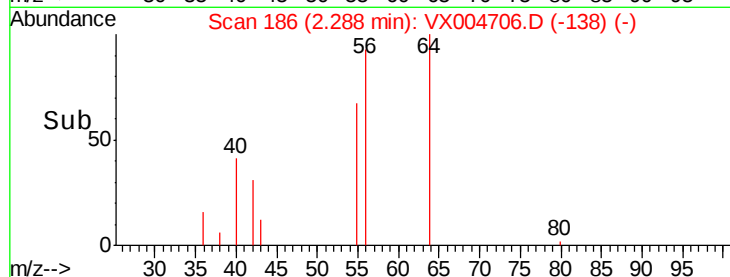
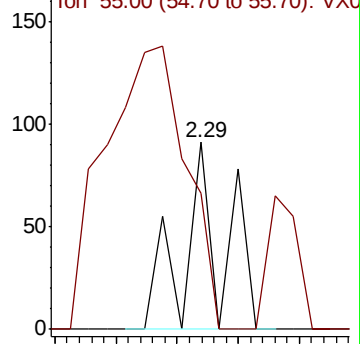
Ion Ratio Lower Upper

56 100

55 311.0 54.7 82.1#



Abundance Ion 56.00 (55.70 to 56.70): VX0



#14

Allyl chloride

Concen: 0.90 ug/l

RT: 2.61 min Scan# 239

Delta R.T. -0.12 min

Lab File: VX004706.D

Acq: 19 Sep 2018 15:26

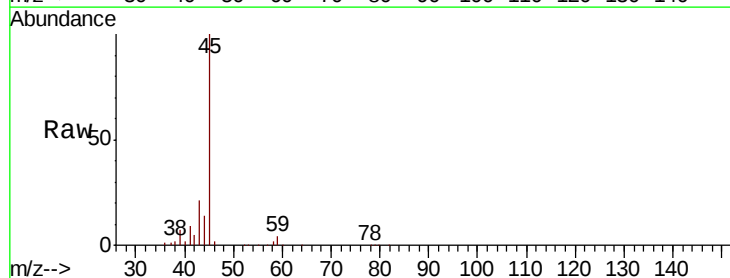
Tgt Ion: 41 Resp: 4248

Ion Ratio Lower Upper

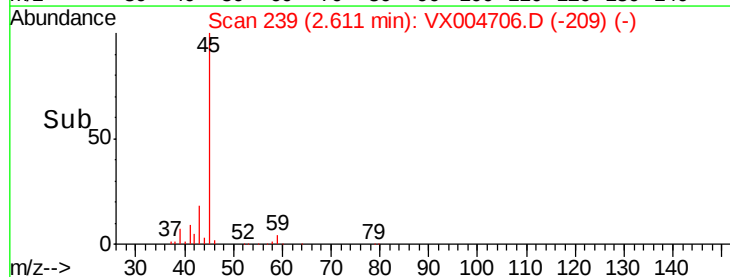
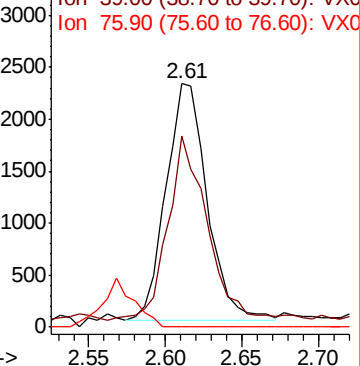
41 100

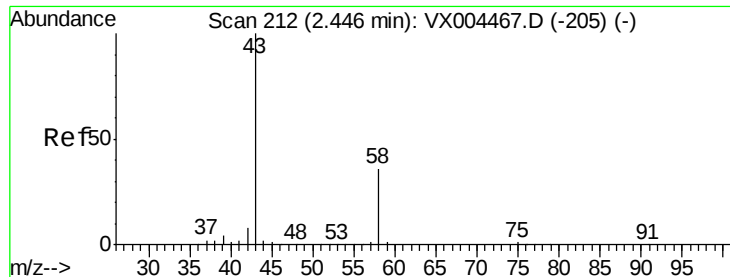
39 74.1 48.9 73.3#

76 0.0 26.7 40.1#



Abundance Ion 41.00 (40.70 to 41.70): VX0





#16

Acetone

Concen: 3.19 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX004706.D

Acq: 19 Sep 2018 15:26

Instrument :

MSVOA_X

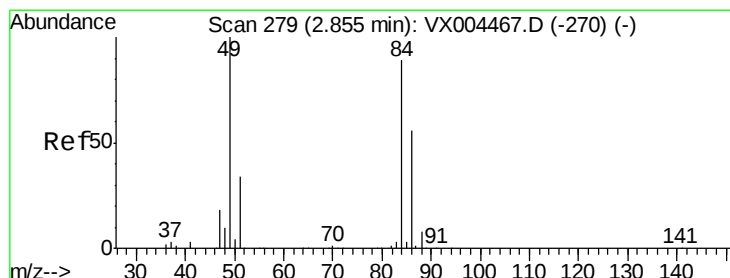
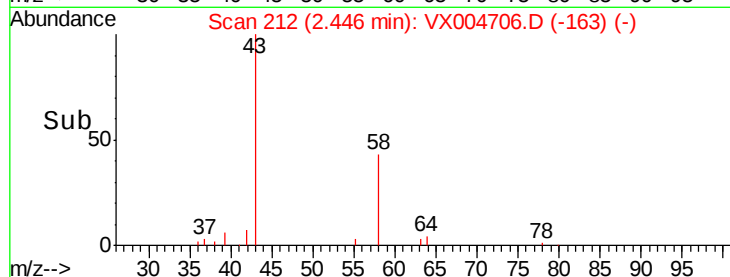
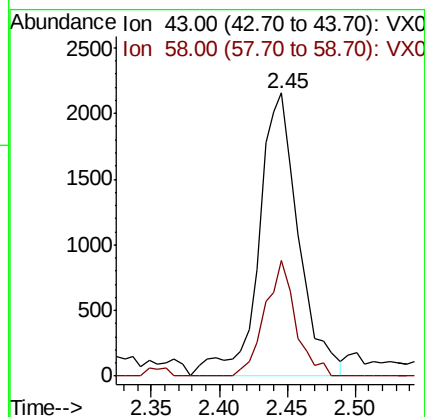
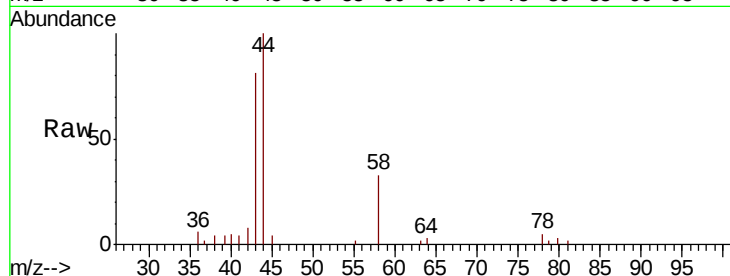
ClientSampleId :

Tot Ion: 43 Resp: 4410

Ion Ratio Lower Upper

43 100

58 40.9 26.2 39.4#



#20

Methylene Chloride

Concen: 0.26 ug/l

RT: 2.86 min Scan# 280

Delta R.T. 0.01 min

Lab File: VX004706.D

Acq: 19 Sep 2018 15:26

Tgt Ion: 84 Resp: 737

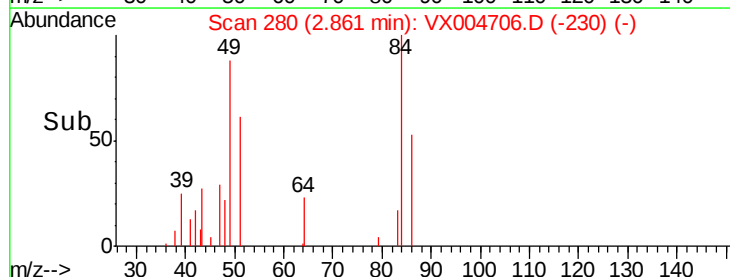
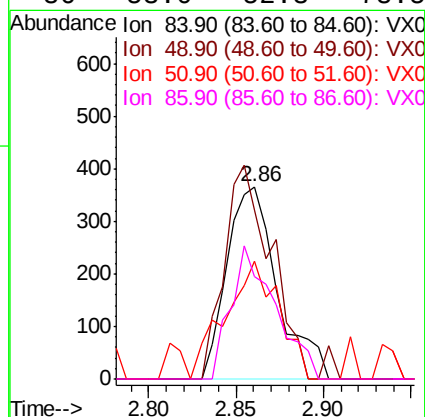
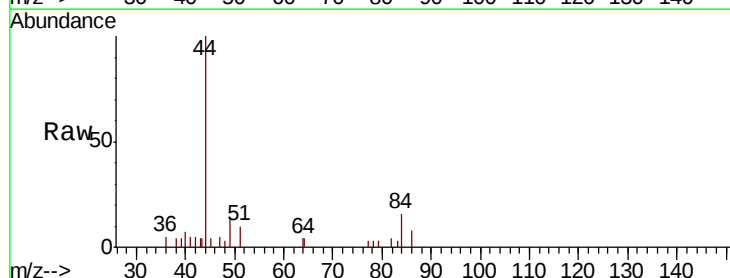
Ion Ratio Lower Upper

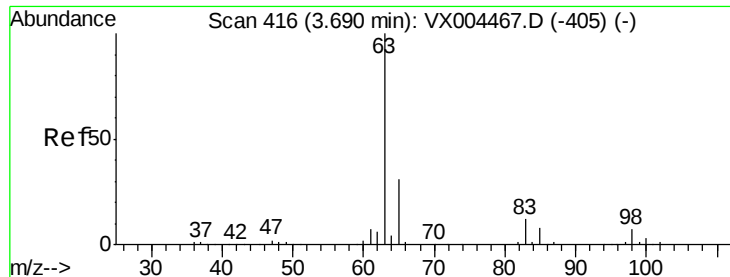
84 100

49 88.0 101.2 151.8#

51 61.5 29.5 44.3#

86 53.0 52.3 78.5





#24

1,1-Dichloroethane

Concen: 1.71 ug/l

RT: 3.70 min Scan# 417

Delta R.T. 0.01 min

Lab File: VX004706.D

Acq: 19 Sep 2018 15:26

Instrument :

MSVOA_X

ClientSampled :

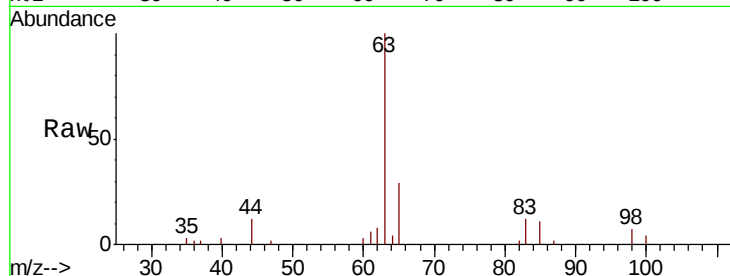
Tot Ion: 63 Resp: 8203

Ion Ratio Lower Upper

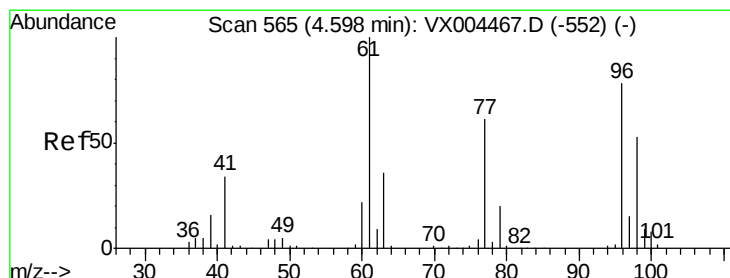
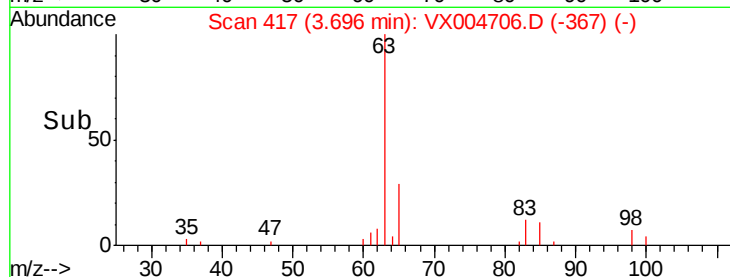
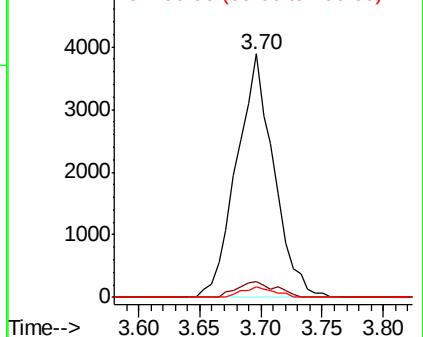
63 100

98 6.7 3.5 10.4

100 4.3 2.4 7.1



Abundance Ion 62.90 (62.60 to 63.60): VX0
Ion 97.90 (97.60 to 98.60): VX0
Ion 99.90 (99.60 to 100.60): VX0



#27

cis-1,2-Dichloroethene

Concen: 0.68 ug/l

RT: 4.59 min Scan# 564

Delta R.T. -0.01 min

Lab File: VX004706.D

Acq: 19 Sep 2018 15:26

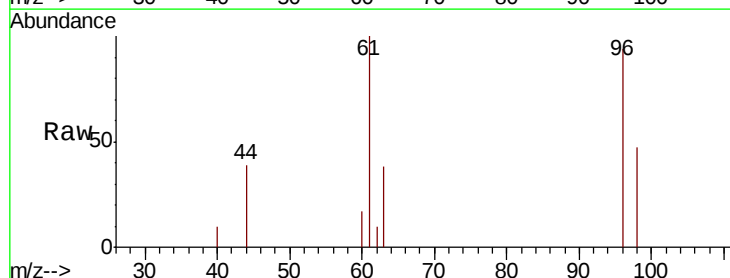
Tgt Ion: 96 Resp: 1937

Ion Ratio Lower Upper

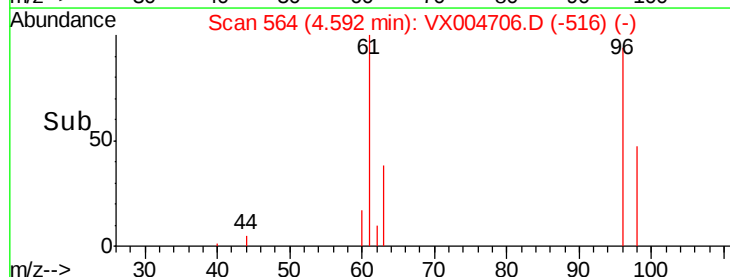
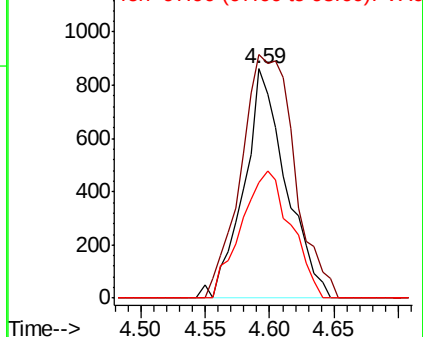
96 100

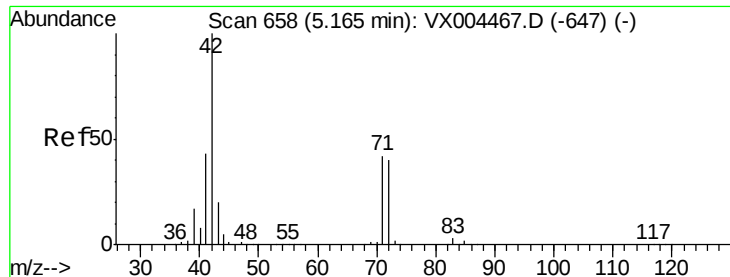
61 136.2 0.0 282.6

98 66.3 0.0 130.2



Abundance Ion 95.90 (95.60 to 96.60): VX0
Ion 60.90 (60.60 to 61.60): VX0
Ion 97.90 (97.60 to 98.60): VX0

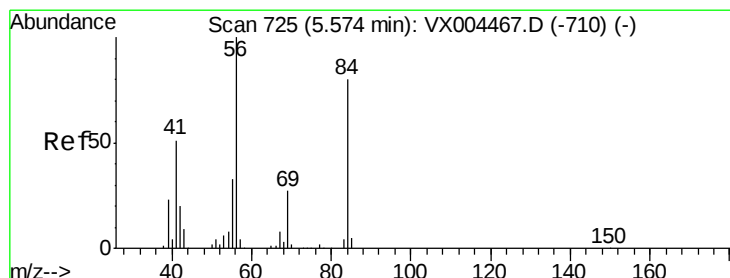
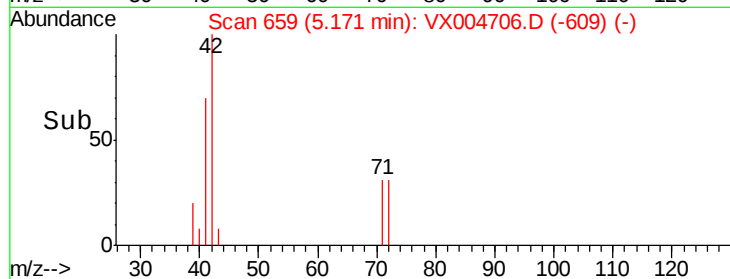
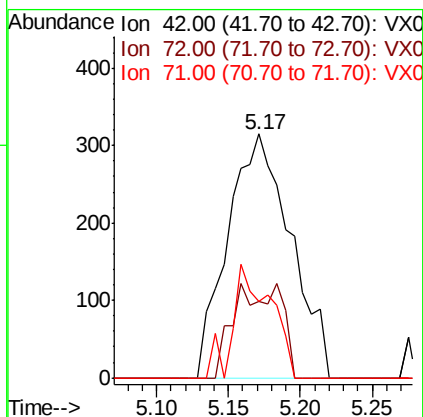
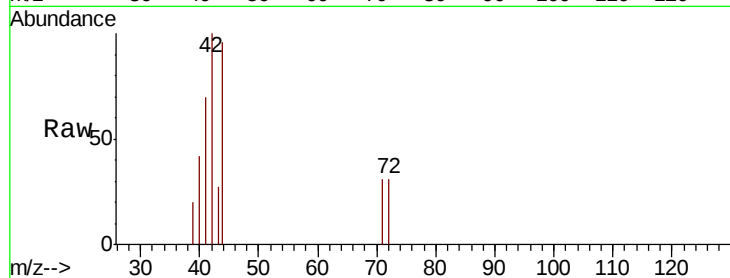




#29
Tetrahydrofuran
Concen: 0.72 ug/l
RT: 5.17 min Scan# 659
Delta R.T. 0.01 min
Lab File: VX004706.D
Acq: 19 Sep 2018 15:26

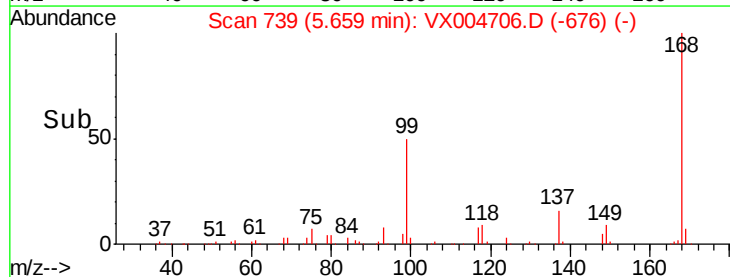
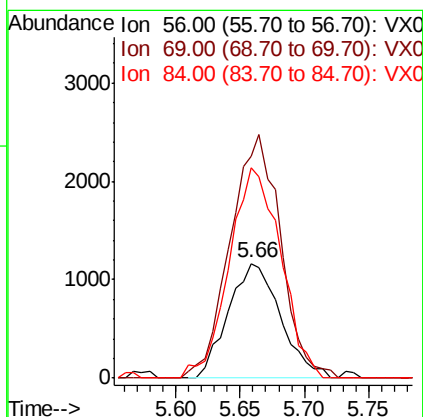
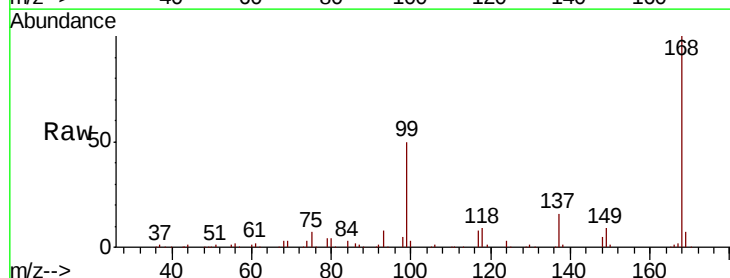
Instrument :
MSVOA_X
ClientSampleId :

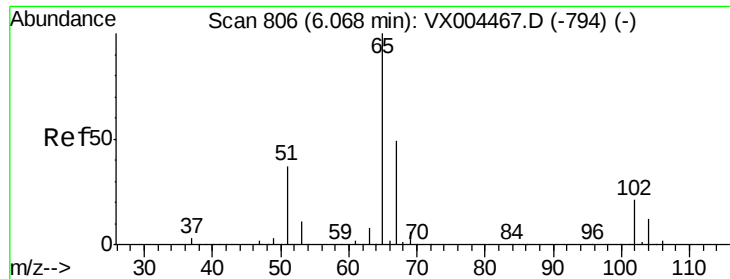
Tot Ion: 42 Resp: 958
Ion Ratio Lower Upper
42 100
72 20.8 37.4 56.0#
71 28.0 34.5 51.7#



#31
Cyclohexane
Concen: 0.80 ug/l
RT: 5.66 min Scan# 739
Delta R.T. 0.09 min
Lab File: VX004706.D
Acq: 19 Sep 2018 15:26

Tgt Ion: 56 Resp: 3283
Ion Ratio Lower Upper
56 100
69 193.4 25.4 38.2#
84 183.8 71.4 107.2#

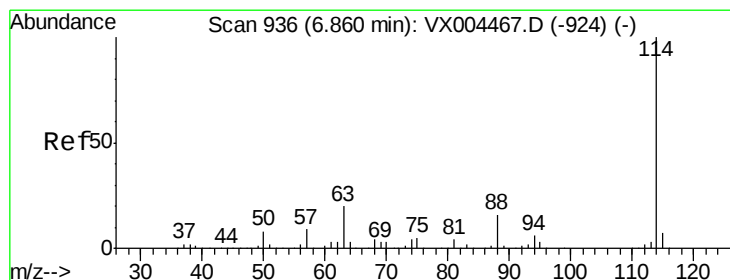
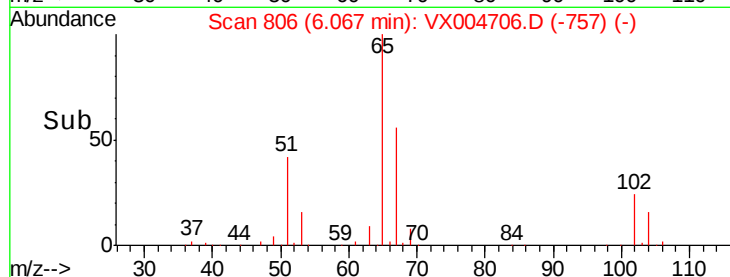
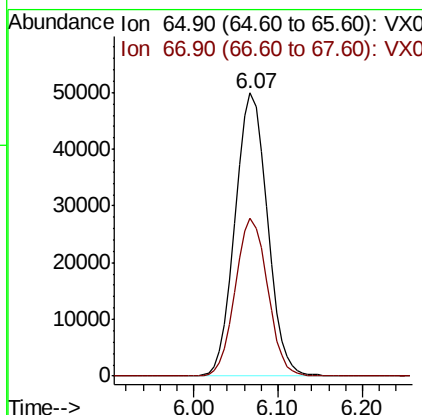
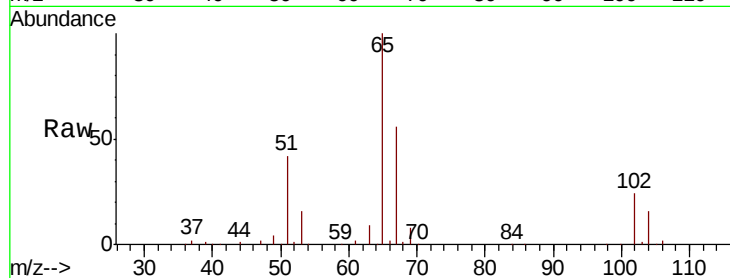




#33
 1,2-Dichloroethane-d4
 Concen: 45.81 ug/l
 RT: 6.07 min Scan# 806
 Delta R.T. -0.00 min
 Lab File: VX004706.D
 Acq: 19 Sep 2018 15:26

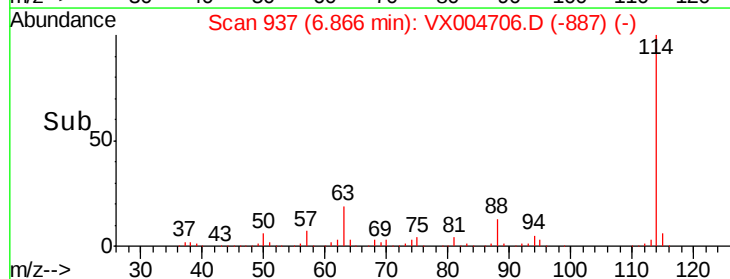
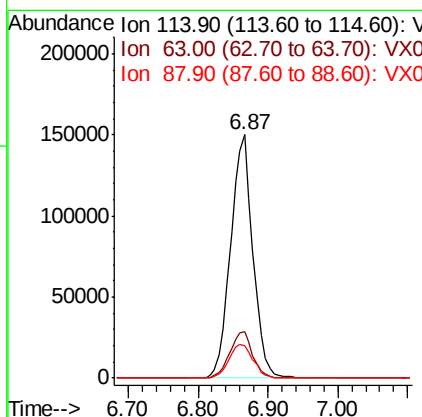
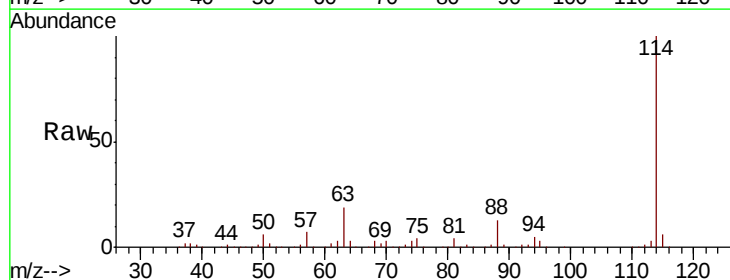
Instrument :
 MSVOA_X
 ClientSampleId :

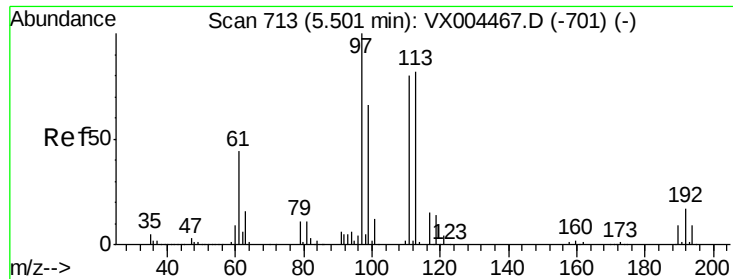
Tot Ion: 65 Resp: 129869
 Ion Ratio Lower Upper
 65 100
 67 55.7 0.0 106.8



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.87 min Scan# 937
 Delta R.T. 0.01 min
 Lab File: VX004706.D
 Acq: 19 Sep 2018 15:26

Tgt Ion: 114 Resp: 330906
 Ion Ratio Lower Upper
 114 100
 63 19.3 0.0 39.0
 88 13.4 0.0 30.4

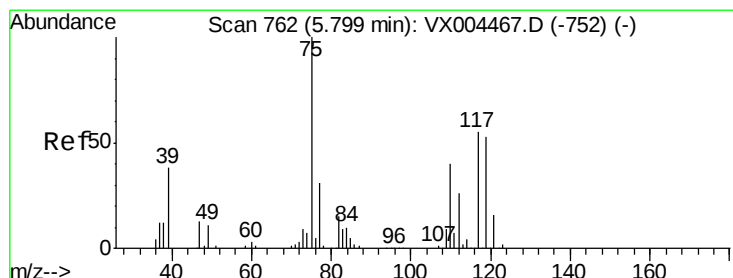
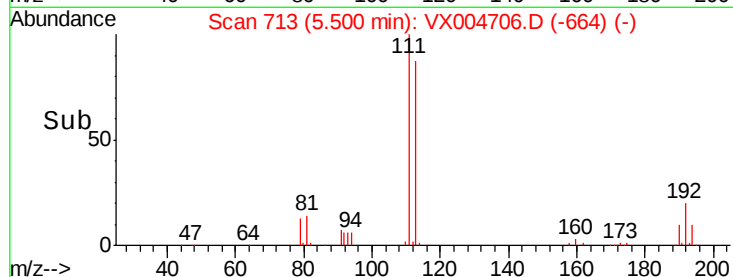
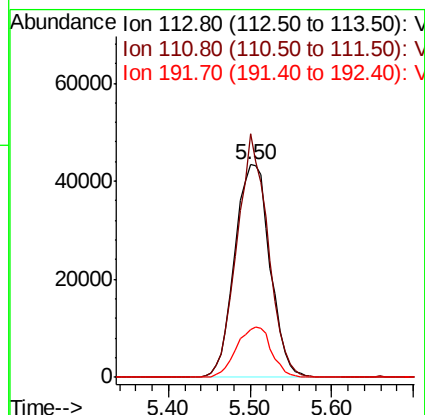
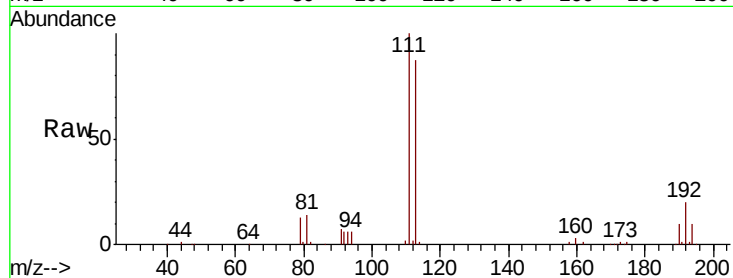




#35
 Dibromofluoromethane
 Concen: 42.92 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. -0.00 min
 Lab File: VX004706.D
 Acq: 19 Sep 2018 15:26

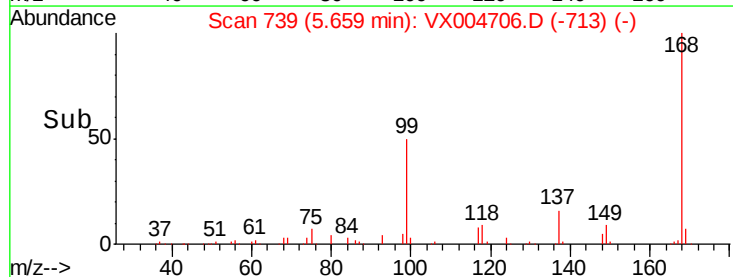
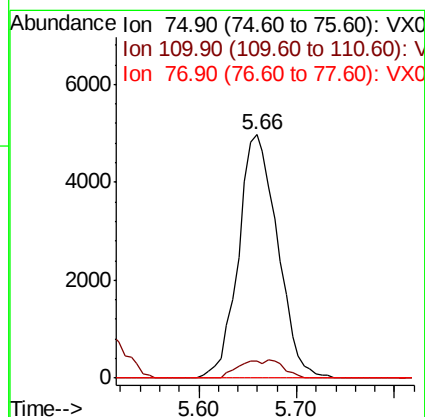
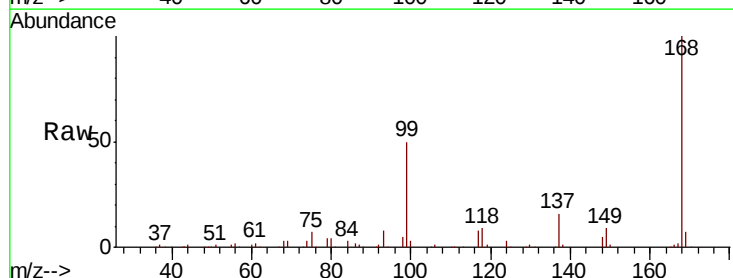
Instrument :
 MSVOA_X
 ClientSampleId :

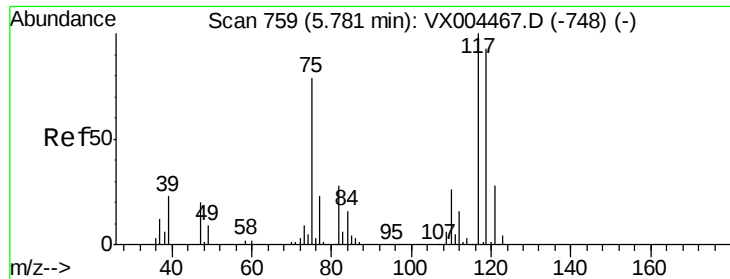
Tot Ion:113 Resp: 129973
 Ion Ratio Lower Upper
 113 100
 111 100.9 82.4 123.6
 192 23.4 19.4 29.2



#36
 1,1-Dichloropropene
 Concen: 3.43 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.14 min
 Lab File: VX004706.D
 Acq: 19 Sep 2018 15:26

Tgt Ion: 75 Resp: 13784
 Ion Ratio Lower Upper
 75 100
 110 4.9 18.0 54.0#
 77 0.0 24.6 36.8#





#38

Carbon Tetrachloride

Concen: 4.79 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX004706.D

Acq: 19 Sep 2018 15:26

Instrument :

MSVOA_X

ClientSampleId :

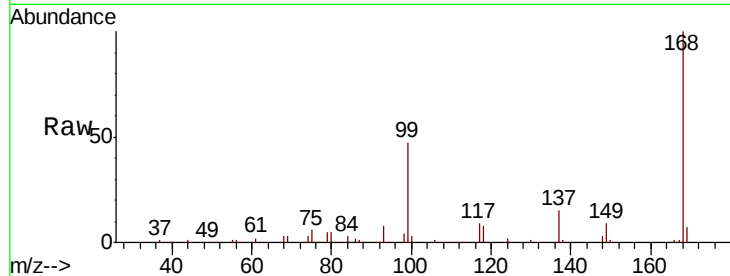
Tot Ion:117 Resp: 18806

Ion Ratio Lower Upper

117 100

119 4.3 78.8 118.2#

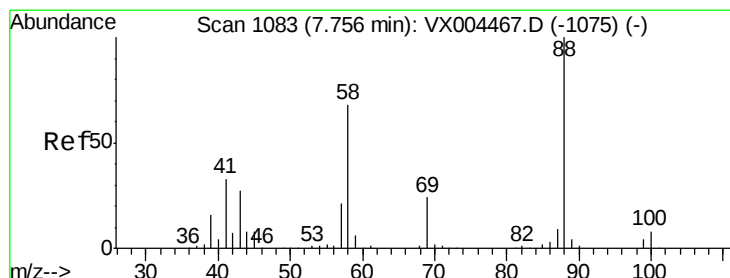
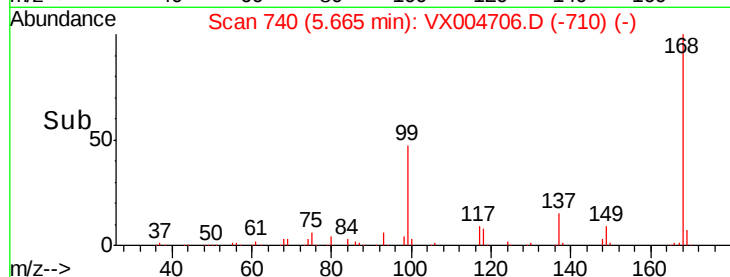
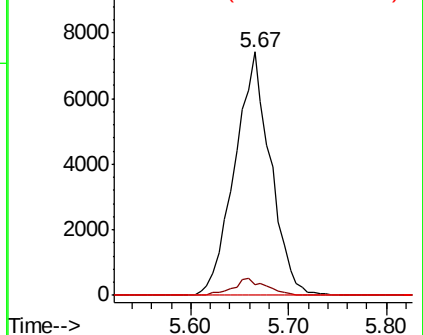
121 0.0 24.9 37.3#



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: 29.71 ug/l

RT: 7.76 min Scan# 1084

Delta R.T. 0.01 min

Lab File: VX004706.D

Acq: 19 Sep 2018 15:26

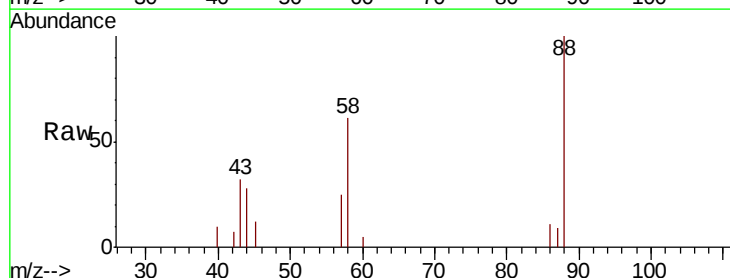
Tgt Ion: 88 Resp: 2112

Ion Ratio Lower Upper

88 100

43 28.8 24.7 37.1

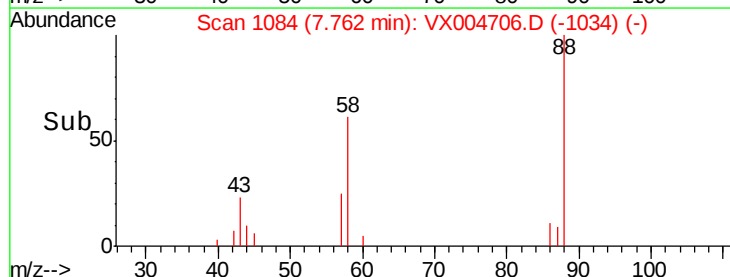
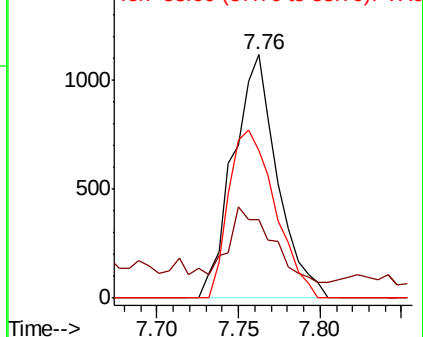
58 72.2 55.3 82.9

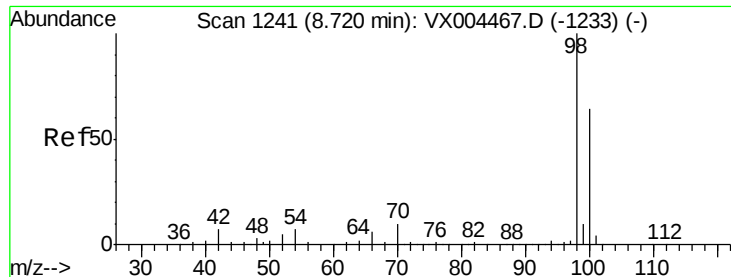


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

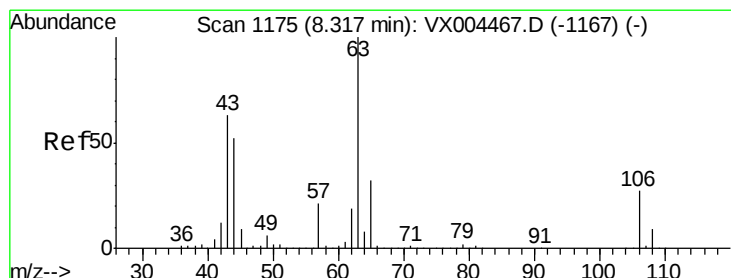
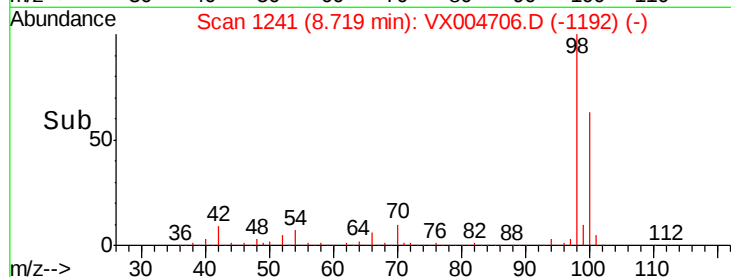
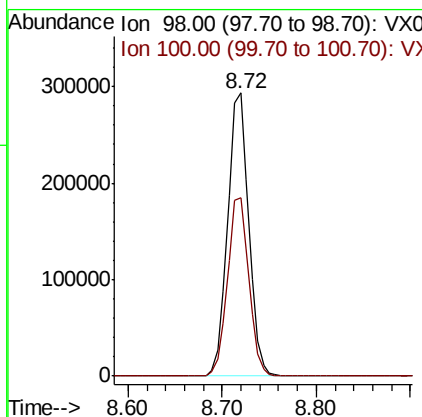
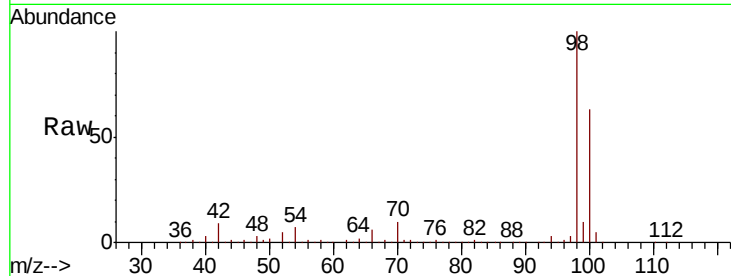




#50
Toluene-d8
Concen: 44.87 ug/l
RT: 8.72 min Scan# 1241
Delta R.T. -0.00 min
Lab File: VX004706.D
Acq: 19 Sep 2018 15:26

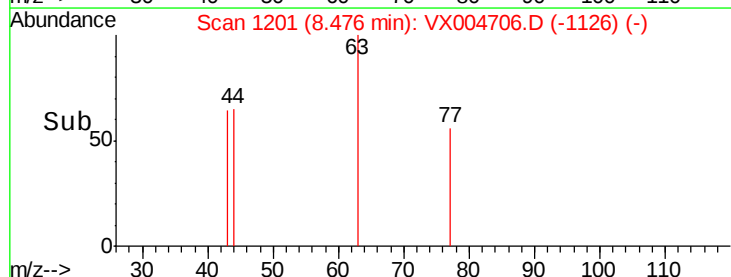
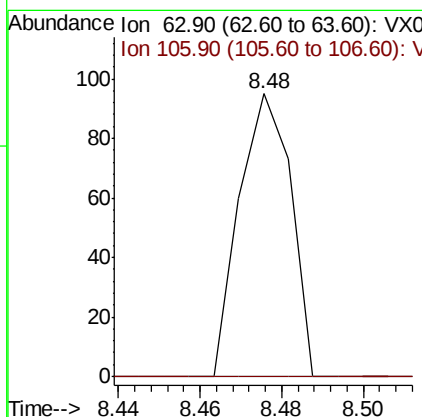
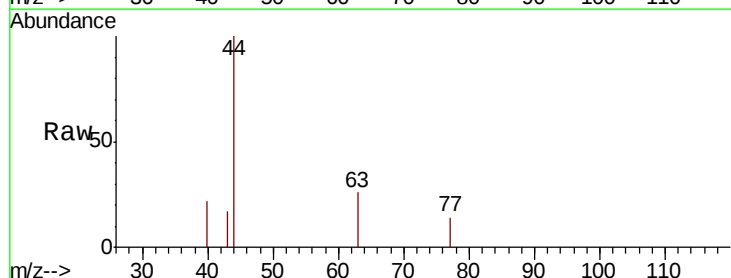
Instrument :
MSVOA_X
ClientSampleId :

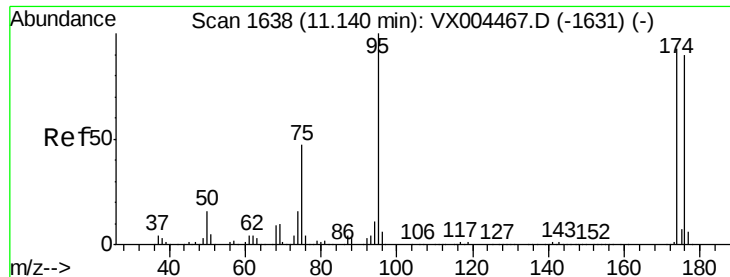
Tot Ion: 98 Resp: 455627
Ion Ratio Lower Upper
98 100
100 63.9 52.9 79.3



#58
2-Chloroethyl Vinyl ether
Concen: 7.31 ug/l
RT: 8.48 min Scan# 1201
Delta R.T. 0.16 min
Lab File: VX004706.D
Acq: 19 Sep 2018 15:26

Tgt Ion: 63 Resp: 83
Ion Ratio Lower Upper
63 100
106 0.0 23.9 35.9#

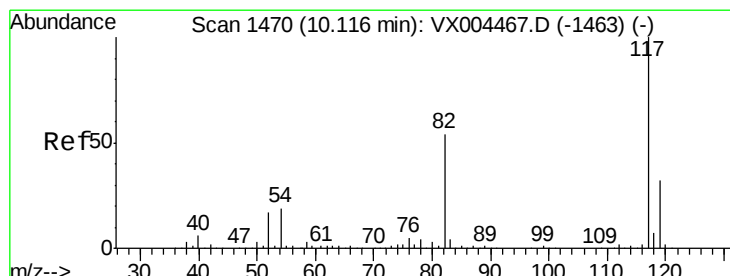
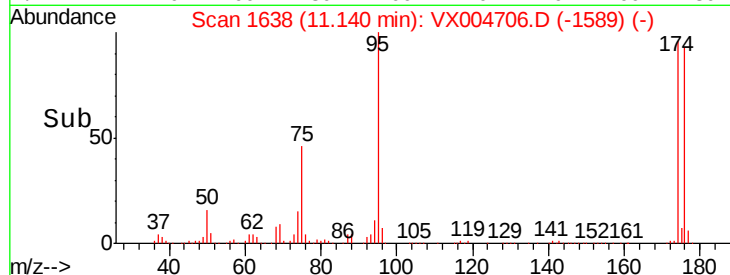
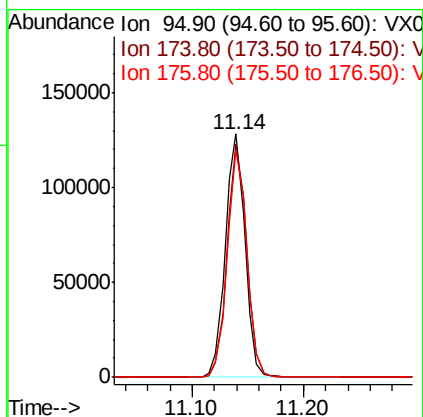
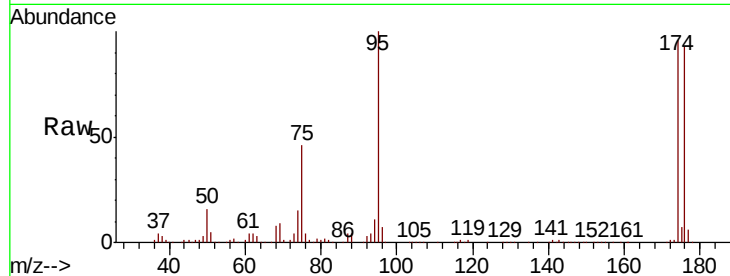




#62
4-Bromofluorobenzene
Concen: 43.13 ug/l
RT: 11.14 min Scan# 1638
Delta R.T. -0.00 min
Lab File: VX004706.D
Acq: 19 Sep 2018 15:26

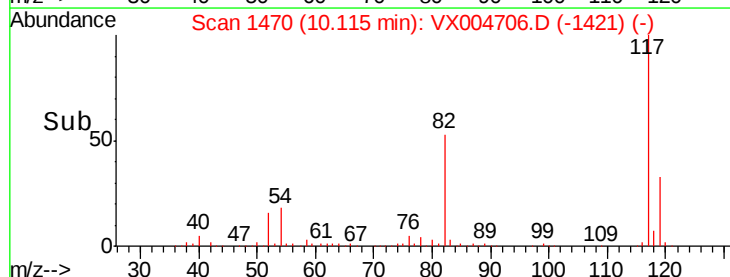
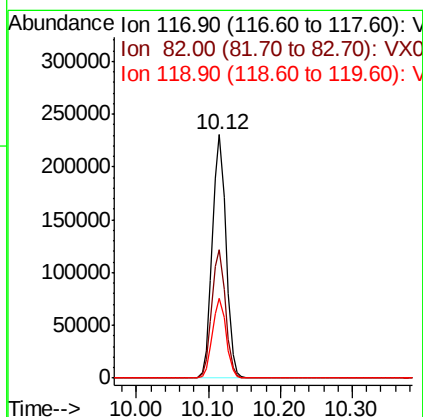
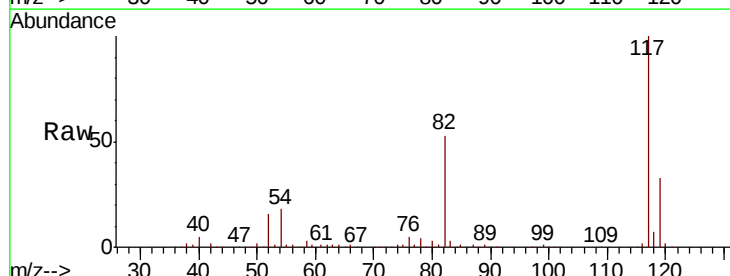
Instrument :
MSVOA_X
ClientSampleId :

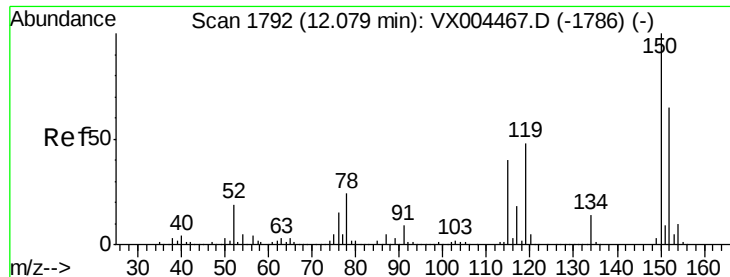
Tot Ion: 95 Resp: 156328
Ion Ratio Lower Upper
95 100
174 95.8 0.0 185.2
176 92.4 0.0 178.6



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. -0.00 min
Lab File: VX004706.D
Acq: 19 Sep 2018 15:26

Tgt Ion: 117 Resp: 303782
Ion Ratio Lower Upper
117 100
82 52.5 47.8 71.6
119 32.8 29.3 43.9





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX004706.D

Acq: 19 Sep 2018 15:26

Instrument :

MSVOA_X

ClientSampled :

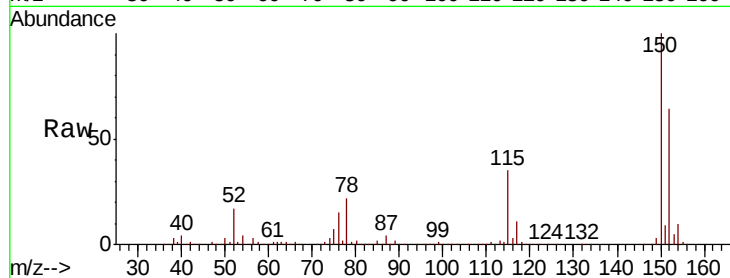
Tot Ion:152 Resp: 164934

Ion Ratio Lower Upper

152 100

115 54.3 39.0 117.0

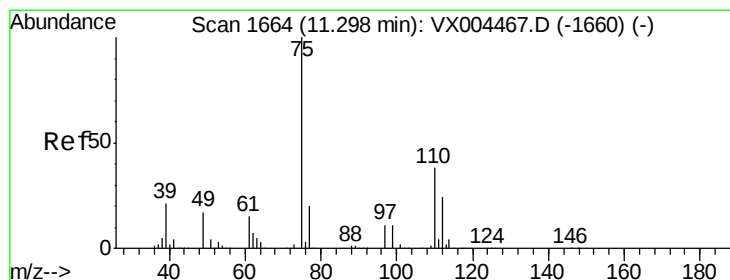
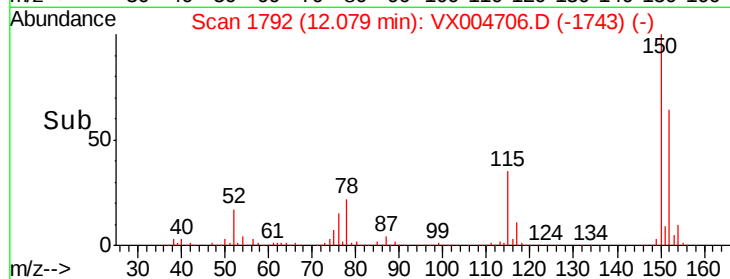
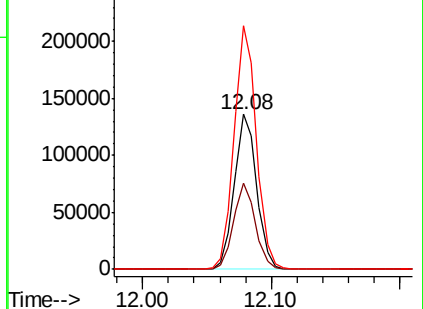
150 156.7 0.0 351.0



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: 21.79 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.16 min

Lab File: VX004706.D

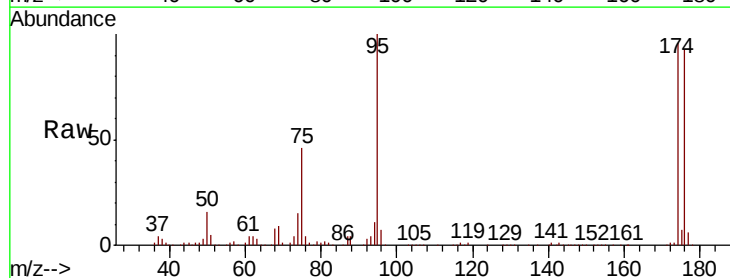
Acq: 19 Sep 2018 15:26

Tgt Ion: 75 Resp: 72304

Ion Ratio Lower Upper

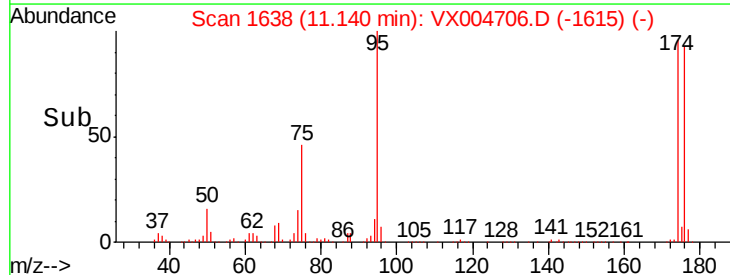
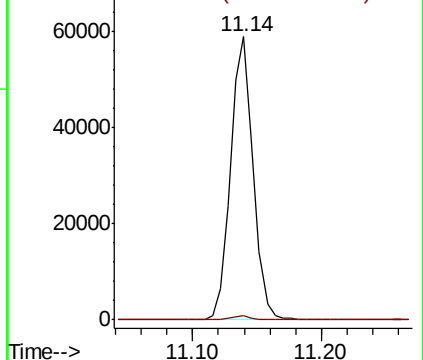
75 100

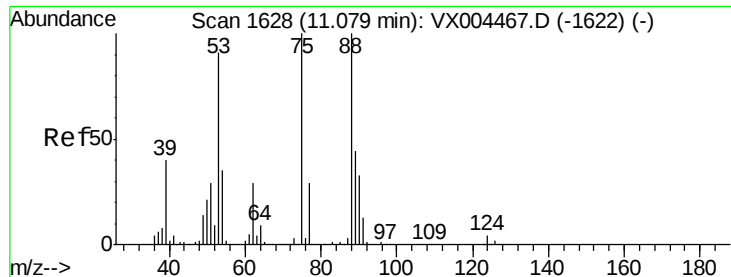
77 1.4 20.2 60.6#



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: 69.45 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.06 min

Lab File: VX004706.D

Acq: 19 Sep 2018 15:26

Instrument :

MSVOA_X

ClientSampleId :

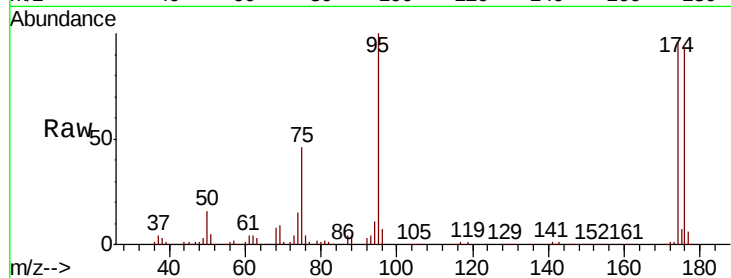
Tot Ion: 75 Resp: 72304

Ion Ratio Lower Upper

75 100

53 0.1 80.1 120.1#

89 0.1 37.2 55.8#



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

