

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX091918\
 Data File : VX004717.D
 Acq On : 19 Sep 2018 20:19
 Operator : JC/MD
 Sample : J4916-05
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Sep 20 03:51:59 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	5.66	168	214287	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	317435	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	297721	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	165880	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	128899	46.65	ug/l	0.00
Spiked Amount			Recovery	=	93.30%	
35) Dibromofluoromethane	5.50	113	121192	41.72	ug/l	0.00
Spiked Amount			Recovery	=	83.44%	
50) Toluene-d8	8.72	98	446150	45.80	ug/l	0.00
Spiked Amount			Recovery	=	91.60%	
62) 4-Bromofluorobenzene	11.14	95	153608	44.18	ug/l	0.00
Spiked Amount			Recovery	=	88.36%	

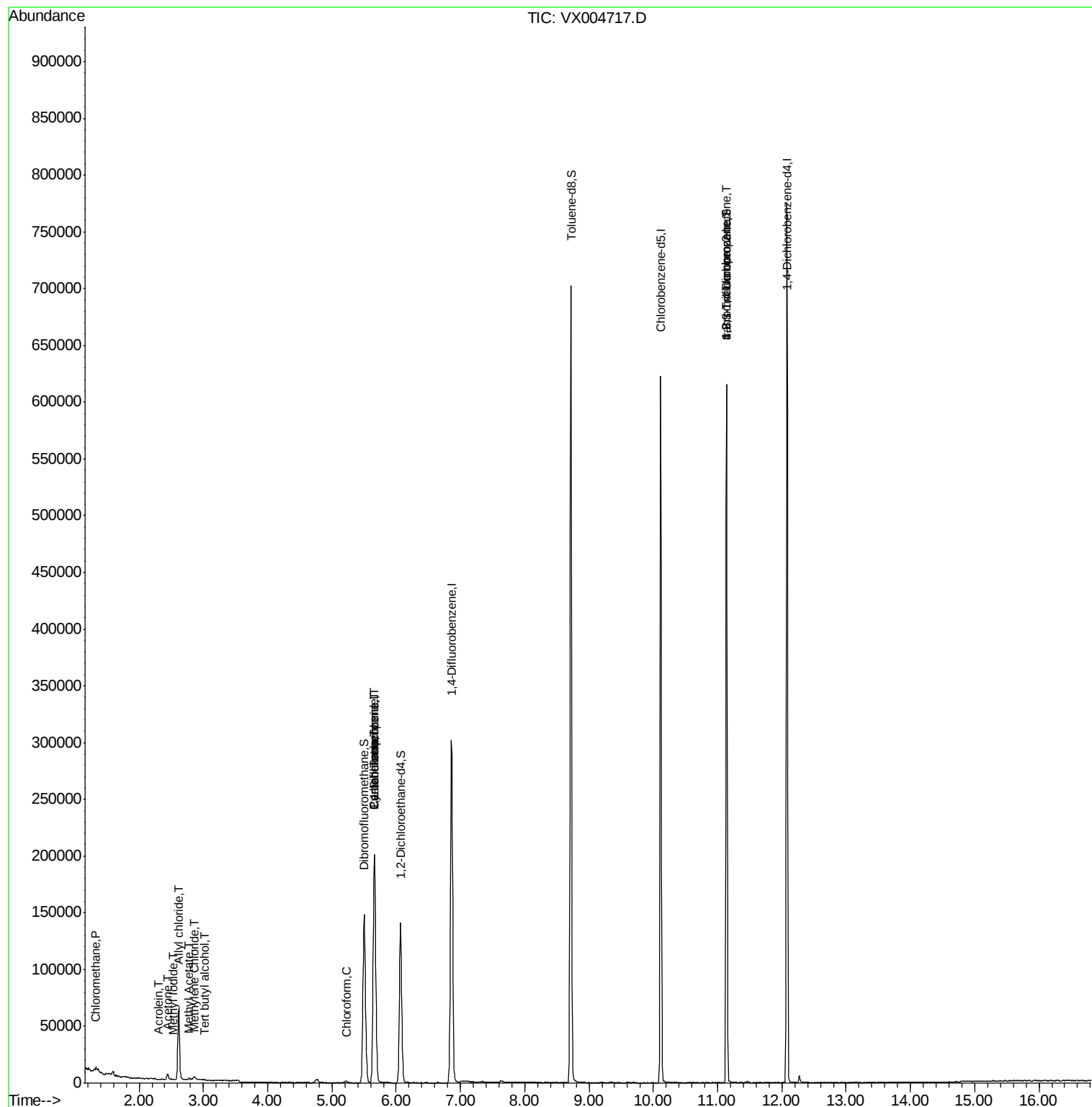
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	575	0.21	ug/l	94
5) Bromomethane	1.67	94	462	Below Cal	#	79
10) Methyl Iodide	2.52	142	108	4.29	ug/l	# 41
11) Tert butyl alcohol	3.02	59	541	0.82	ug/l	# 72
13) Acrolein	2.29	56	53	0.20	ug/l	# 60
14) Allyl chloride	2.62	41	5792	1.26	ug/l	# 61
16) Acetone	2.44	43	4533	3.36	ug/l	94
18) Methyl Acetate	2.78	43	1270	0.34	ug/l	# 89
20) Methylene Chloride	2.85	84	1176	0.43	ug/l	# 84
30) Chloroform	5.22	83	1680	0.37	ug/l	93
31) Cyclohexane	5.67	56	3208	0.80	ug/l	# 1
36) 1,1-Dichloropropene	5.67	75	13644	3.54	ug/l	# 49
38) Carbon Tetrachloride	5.66	117	18168	4.83	ug/l	# 16
76) 1,2,3-Trichloropropane	11.14	75	71087	21.30	ug/l	# 37
81) trans-1,4-Dichloro-2-buten	11.14	75	71087	67.89	ug/l	# 10

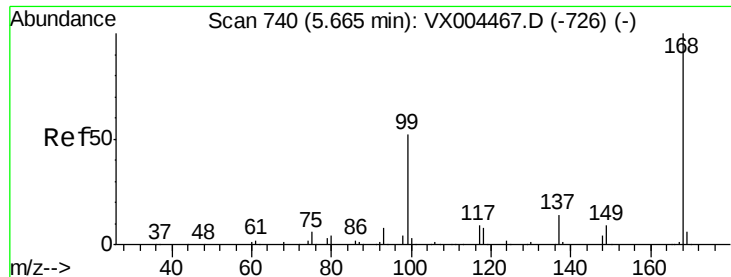
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.01 min

Lab File: VX004717.D

Acq: 19 Sep 2018 20:19

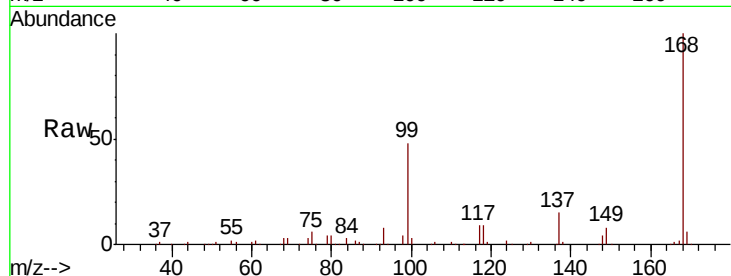
Instrument :
MSVOA_X
ClientSampled :

Tot Ion:168 Resp: 214287

Ion Ratio Lower Upper

168 100

99 48.2 39.9 59.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.66

80000

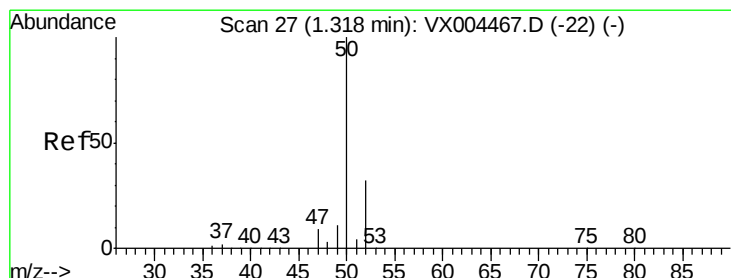
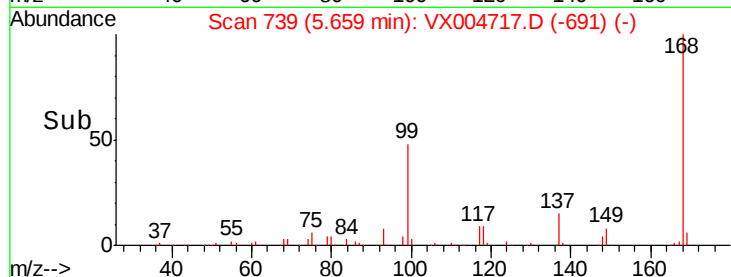
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.21 ug/l

RT: 1.32 min Scan# 28

Delta R.T. 0.01 min

Lab File: VX004717.D

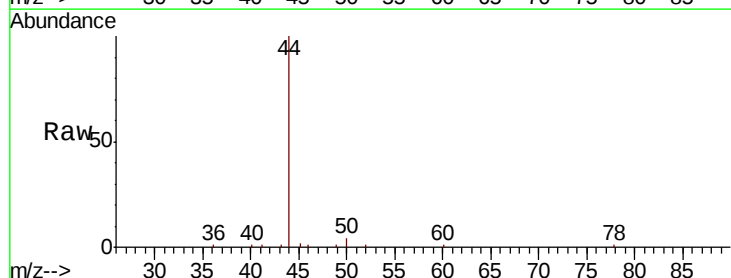
Acq: 19 Sep 2018 20:19

Tgt Ion: 50 Resp: 575

Ion Ratio Lower Upper

50 100

52 36.0 26.2 39.2



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

500

400

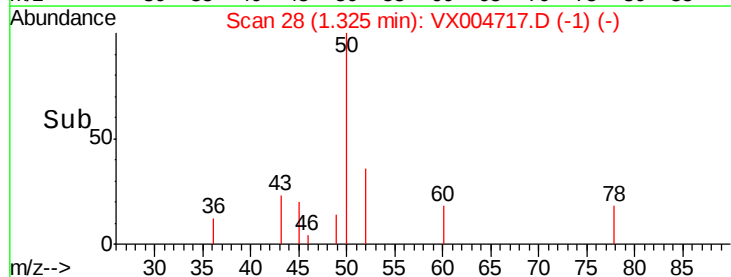
300

200

100

0

Time--> 1.30 1.35





#5

Bromomethane

Concen: Below Cal

RT: 1.67 min Scan# 85

Delta R.T. 0.04 min

Lab File: VX004717.D

Acq: 19 Sep 2018 20:19

Instrument :

MSVOA_X

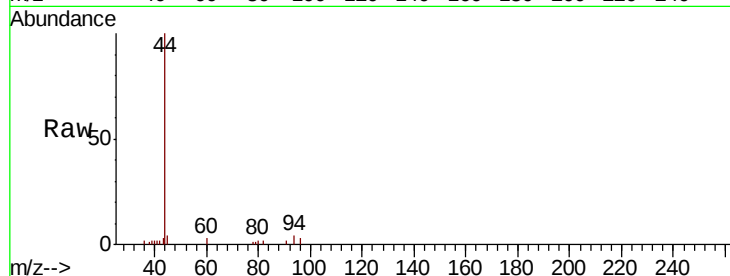
ClientSampleId :

Tot Ion: 94 Resp: 462

Ion Ratio Lower Upper

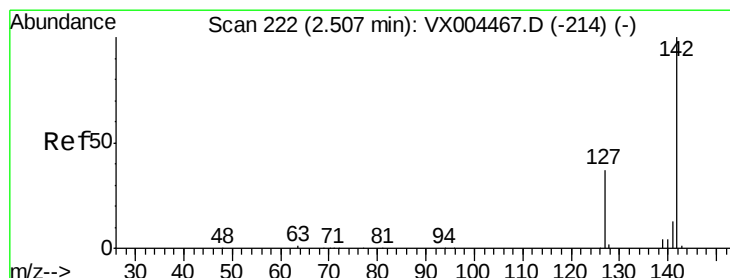
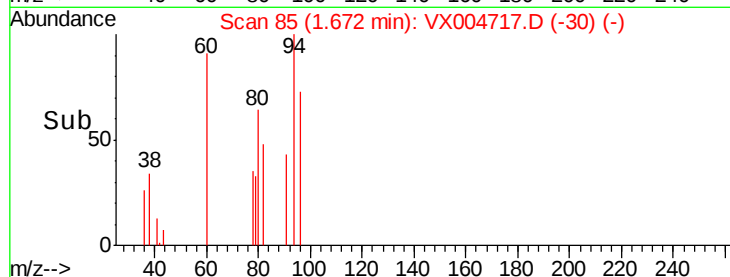
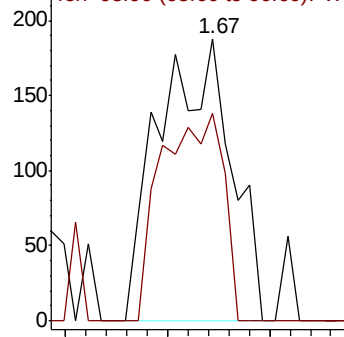
94 100

96 73.4 74.5 111.7#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#10

Methyl Iodide

Concen: 4.29 ug/l

RT: 2.52 min Scan# 224

Delta R.T. 0.01 min

Lab File: VX004717.D

Acq: 19 Sep 2018 20:19

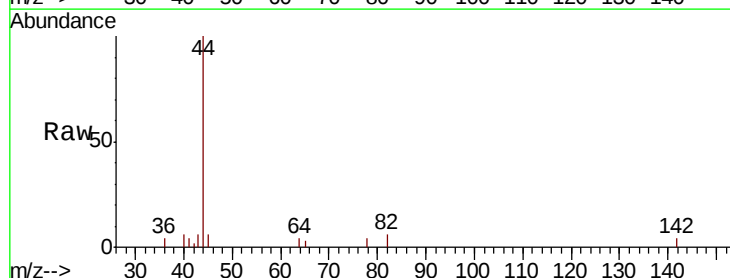
Tgt Ion: 142 Resp: 108

Ion Ratio Lower Upper

142 100

127 0.0 33.8 50.6#

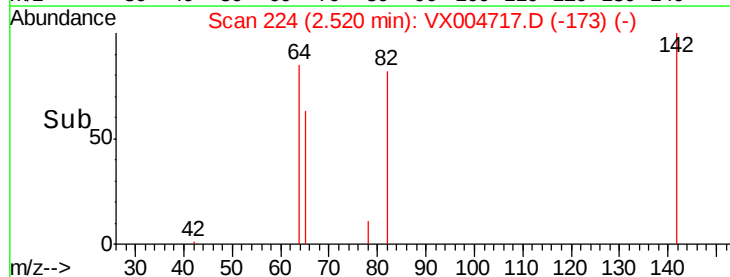
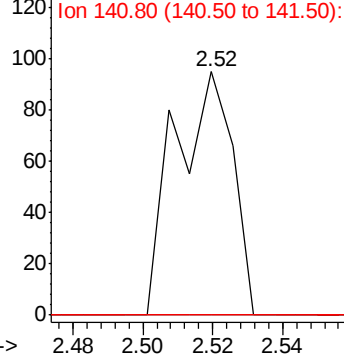
141 0.0 11.4 17.0#

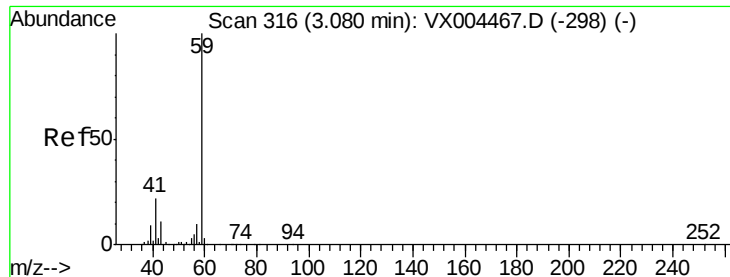


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

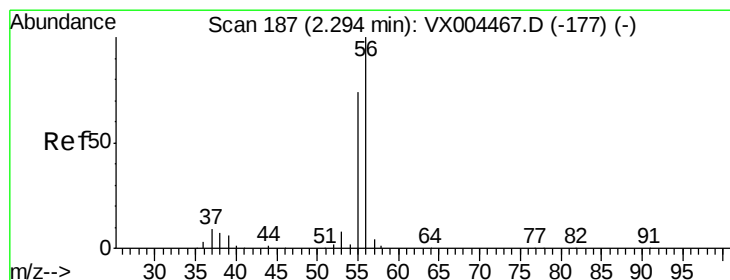
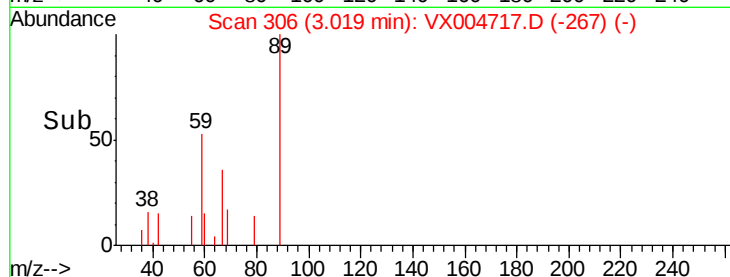
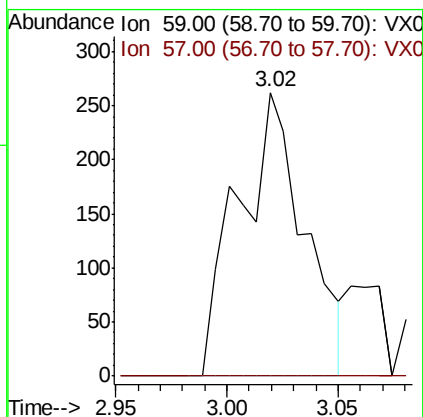
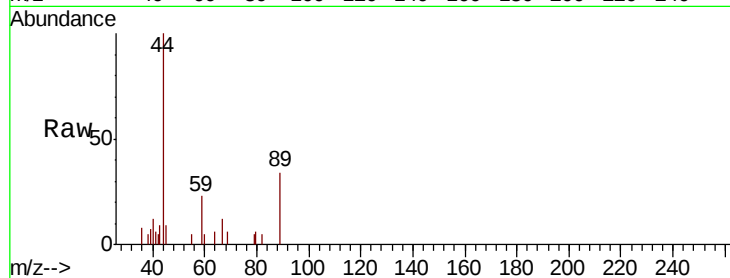




#11
Tert butyl alcohol
Concen: 0.82 ug/l
RT: 3.02 min Scan# 306
Delta R.T. -0.06 min
Lab File: VX004717.D
Acq: 19 Sep 2018 20:19

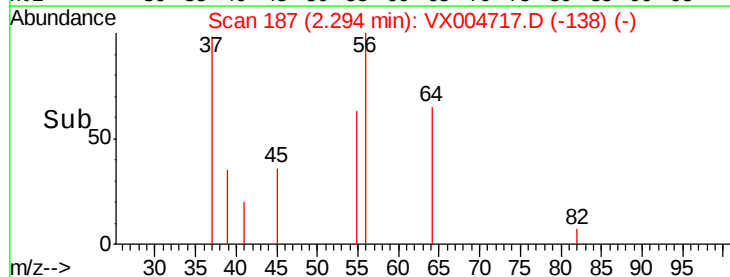
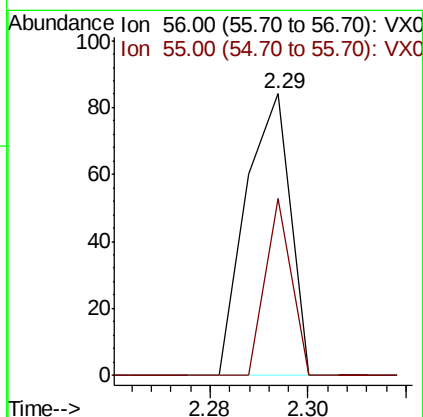
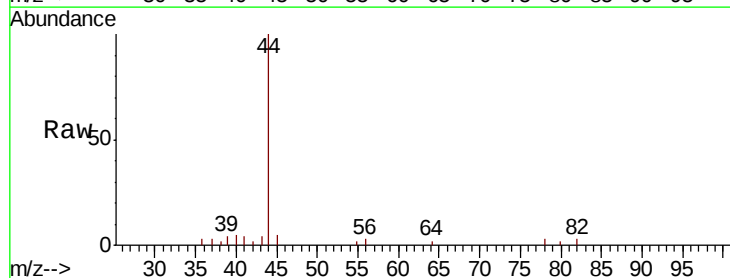
Instrument :
MSVOA_X
ClientSampleId :

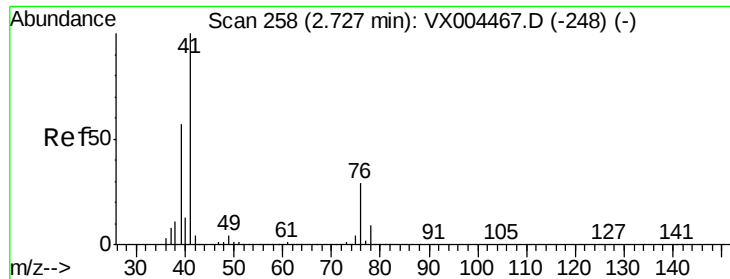
Tot Ion: 59 Resp: 541
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#



#13
Acrolein
Concen: 0.20 ug/l
RT: 2.29 min Scan# 187
Delta R.T. 0.00 min
Lab File: VX004717.D
Acq: 19 Sep 2018 20:19

Tgt Ion: 56 Resp: 53
Ion Ratio Lower Upper
56 100
55 35.8 54.7 82.1#





#14

Allvl chloride

Concen: 1.26 ug/l

RT: 2.62 min Scan# 240

Delta R.T. -0.11 min

Lab File: VX004717.D

Acq: 19 Sep 2018 20:19

Instrument :

MSVOA_X

ClientSampleId :

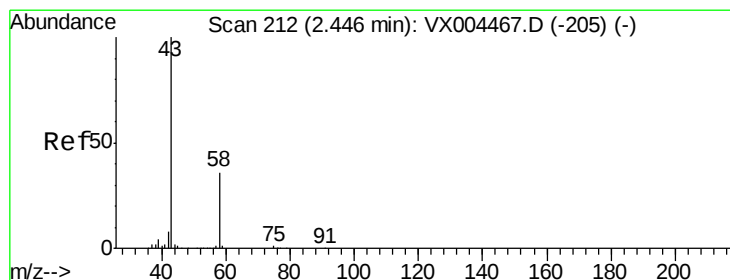
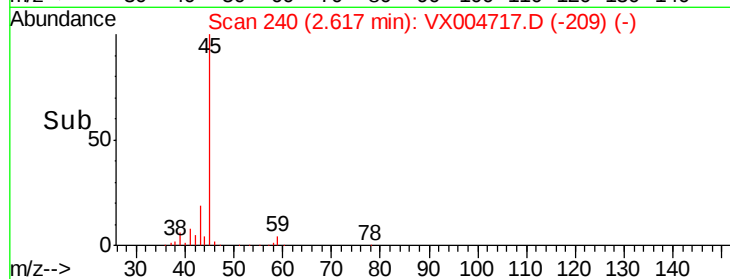
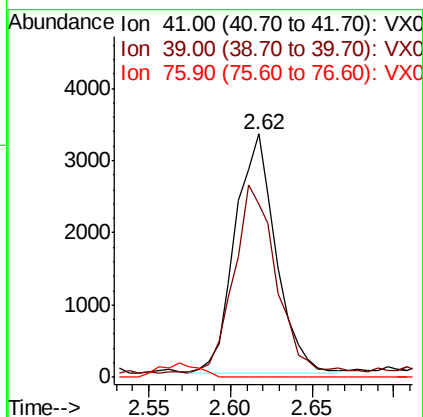
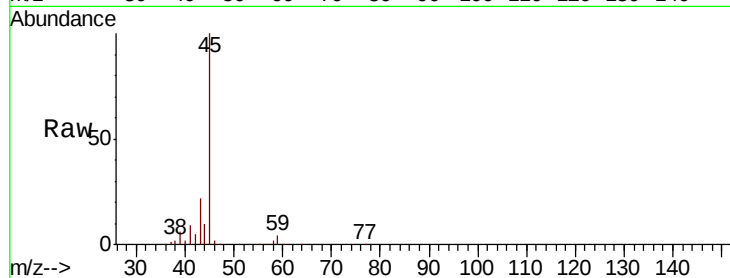
Tot Ion: 41 Resp: 5792

Ion Ratio Lower Upper

41 100

39 82.9 48.9 73.3#

76 0.0 26.7 40.1#



#16

Acetone

Concen: 3.36 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.01 min

Lab File: VX004717.D

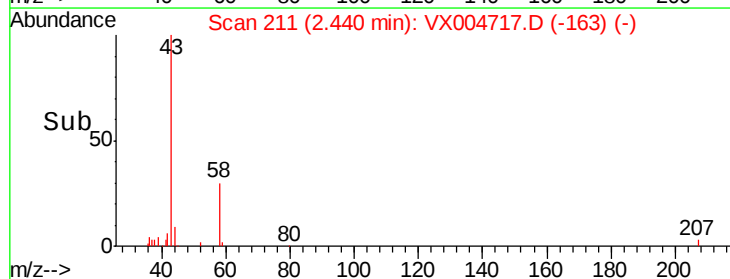
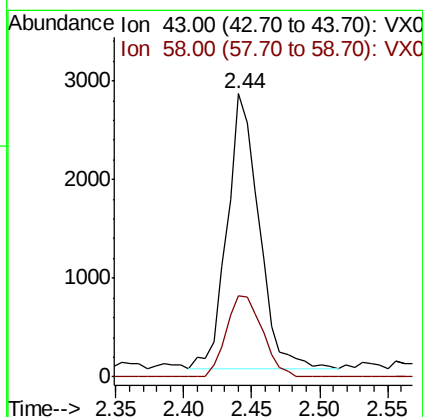
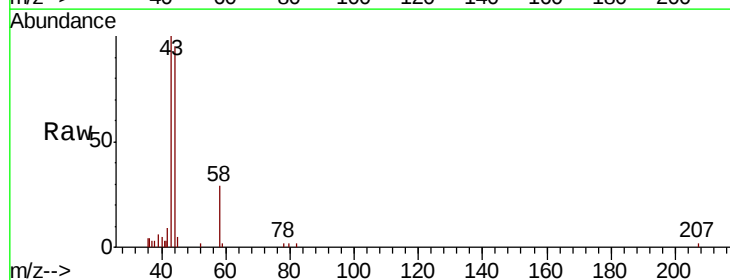
Acq: 19 Sep 2018 20:19

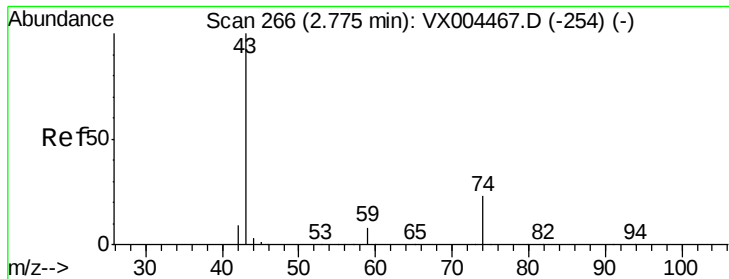
Tgt Ion: 43 Resp: 4533

Ion Ratio Lower Upper

43 100

58 29.5 26.2 39.4





#18

Methyl Acetate

Concen: 0.34 ug/l

RT: 2.78 min Scan# 266

Delta R.T. 0.00 min

Lab File: VX004717.D

Acq: 19 Sep 2018 20:19

Instrument :

MSVOA_X

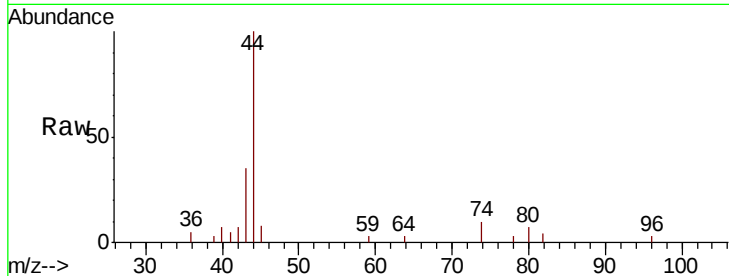
ClientSampleId :

Tot Ion: 43 Resp: 1270

Ion Ratio Lower Upper

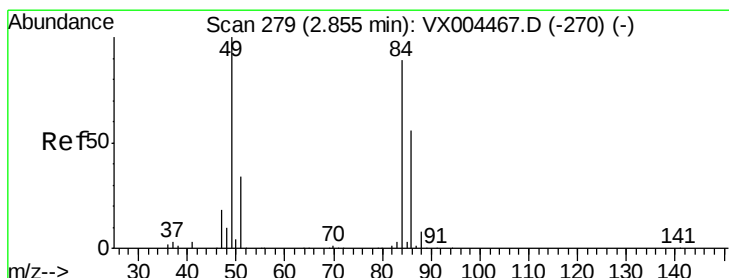
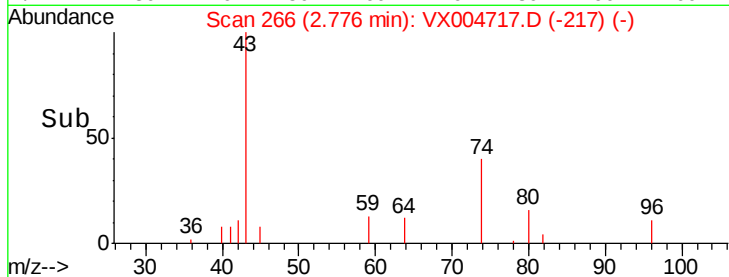
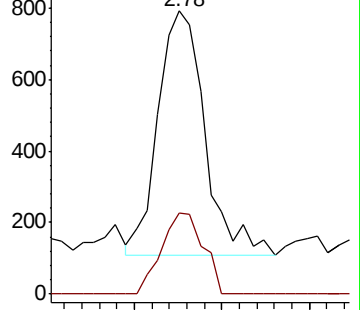
43 100

74 29.7 19.4 29.2#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0



#20

Methylene Chloride

Concen: 0.43 ug/l

RT: 2.85 min Scan# 279

Delta R.T. 0.00 min

Lab File: VX004717.D

Acq: 19 Sep 2018 20:19

Tgt Ion: 84 Resp: 1176

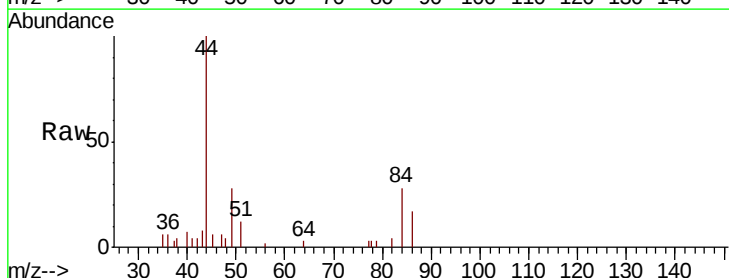
Ion Ratio Lower Upper

84 100

49 99.2 101.2 151.8#

51 41.8 29.5 44.3

86 60.7 52.3 78.5

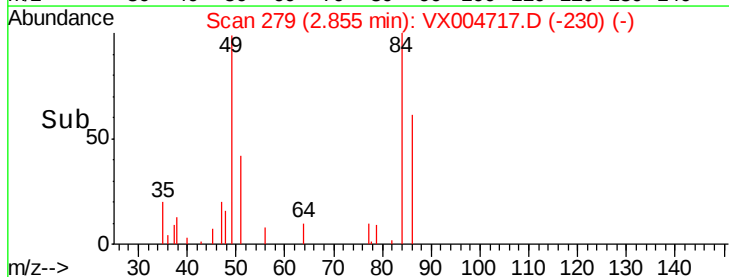
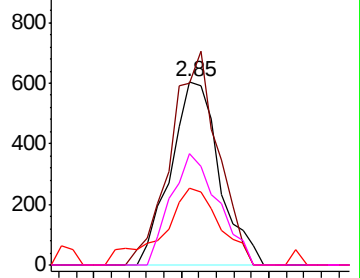


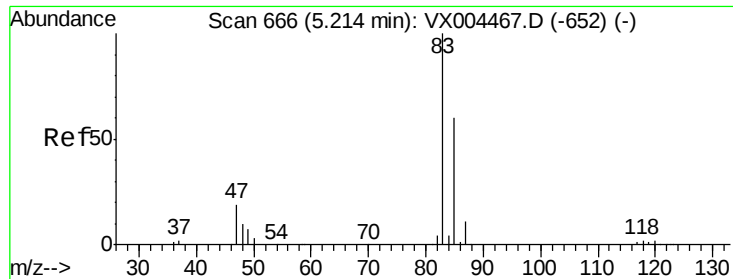
Abundance Ion 83.90 (83.60 to 84.60): VX0

Ion 48.90 (48.60 to 49.60): VX0

Ion 50.90 (50.60 to 51.60): VX0

Ion 85.90 (85.60 to 86.60): VX0

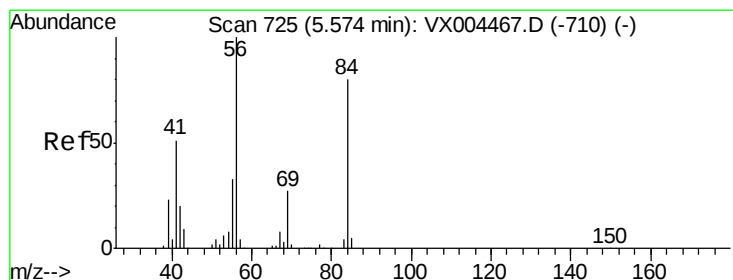
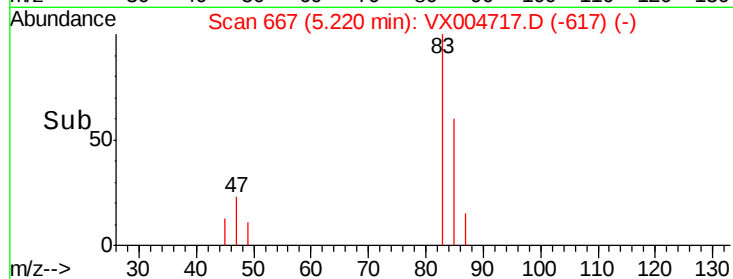
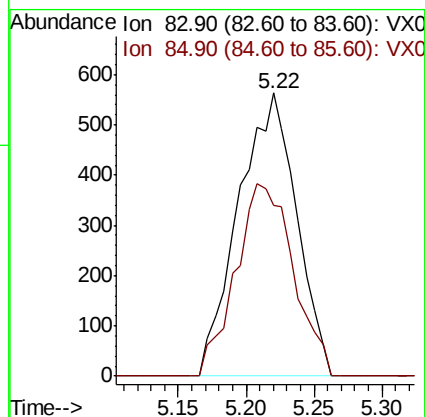
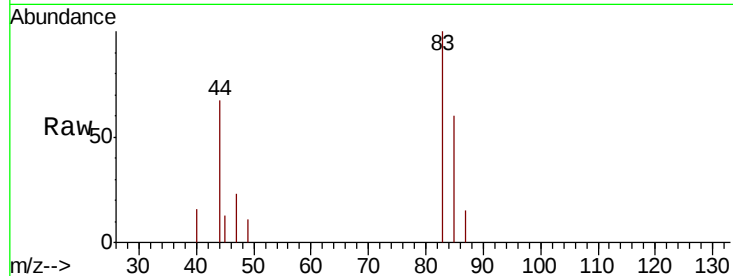




#30
Chloroform
Concen: 0.37 ug/l
RT: 5.22 min Scan# 667
Delta R.T. 0.01 min
Lab File: VX004717.D
Acq: 19 Sep 2018 20:19

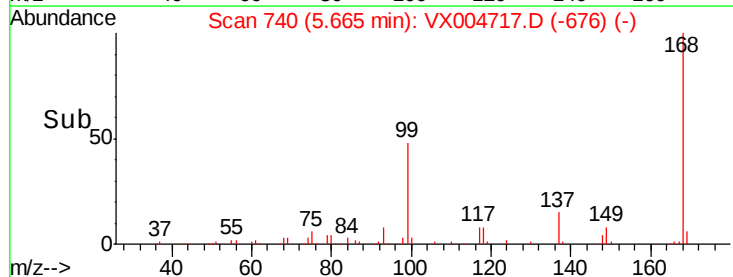
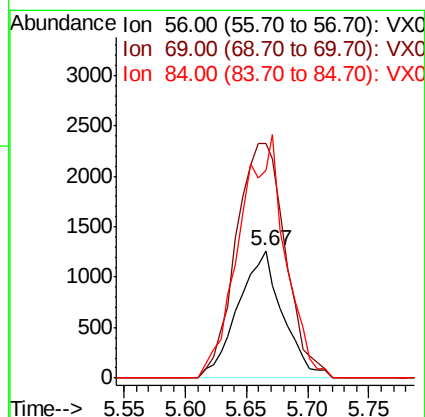
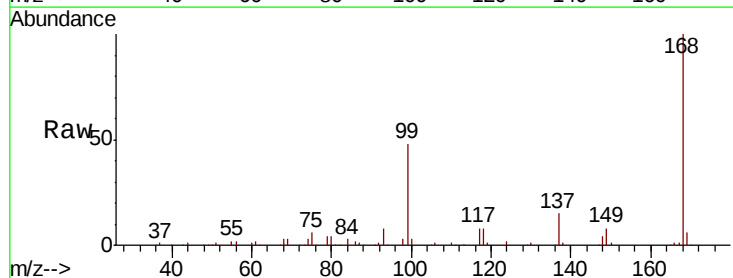
Instrument :
MSVOA_X
ClientSampleId :

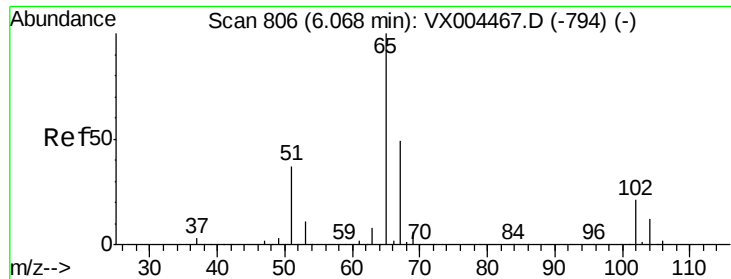
Tot Ion: 83 Resp: 1680
Ion Ratio Lower Upper
83 100
85 60.4 52.6 79.0



#31
Cyclohexane
Concen: 0.80 ug/l
RT: 5.67 min Scan# 740
Delta R.T. 0.09 min
Lab File: VX004717.D
Acq: 19 Sep 2018 20:19

Tgt Ion: 56 Resp: 3208
Ion Ratio Lower Upper
56 100
69 184.5 25.4 38.2#
84 163.2 71.4 107.2#

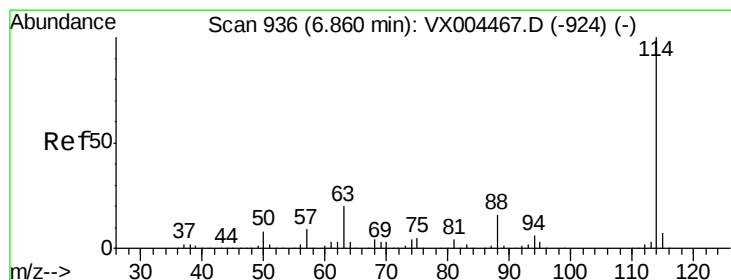
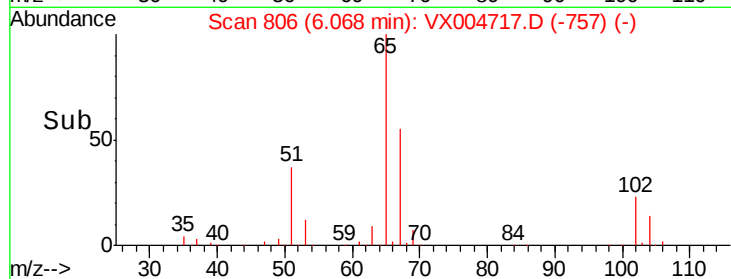
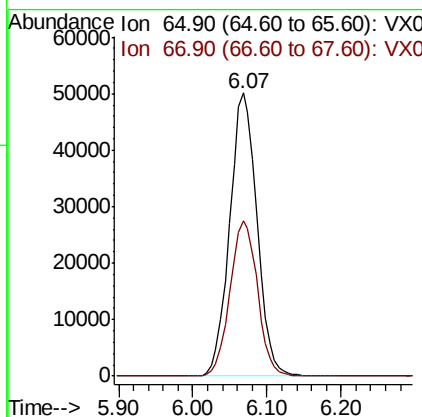
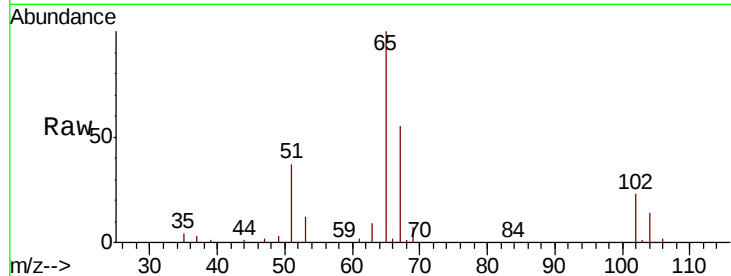




#33
 1,2-Dichloroethane-d4
 Concen: 46.65 ug/l
 RT: 6.07 min Scan# 806
 Delta R.T. 0.00 min
 Lab File: VX004717.D
 Acq: 19 Sep 2018 20:19

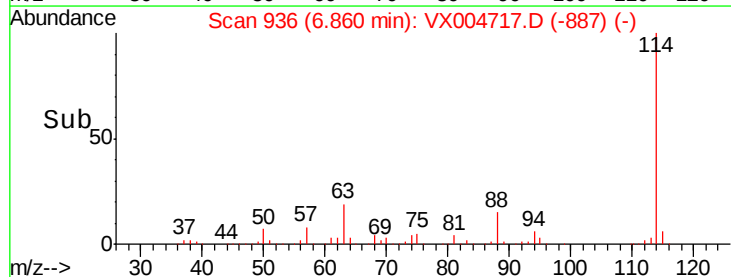
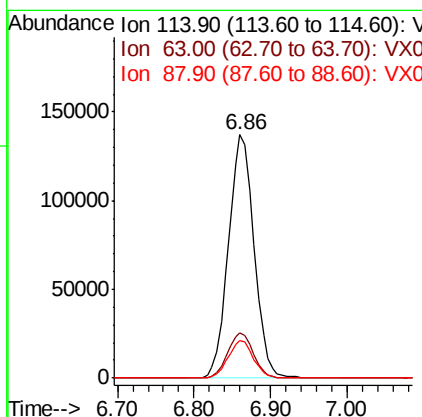
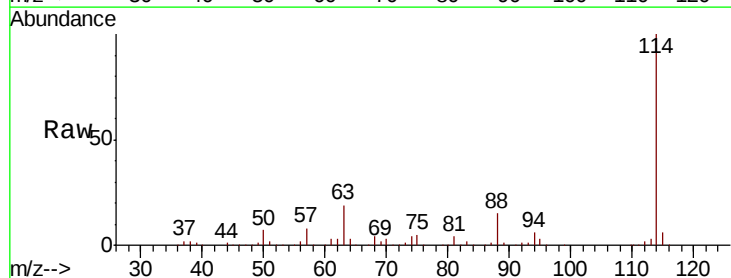
Instrument :
 MSVOA_X
 ClientSampleId :

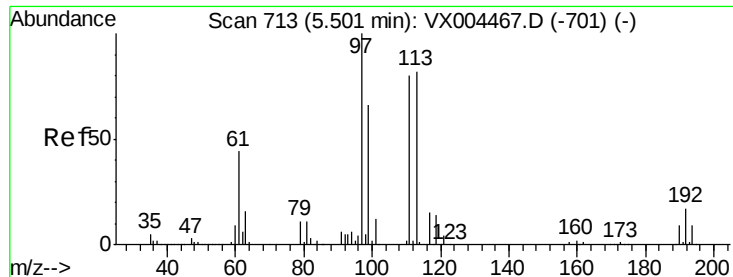
Tot Ion: 65 Resp: 128899
 Ion Ratio Lower Upper
 65 100
 67 55.1 0.0 106.8



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. 0.00 min
 Lab File: VX004717.D
 Acq: 19 Sep 2018 20:19

Tgt Ion: 114 Resp: 317435
 Ion Ratio Lower Upper
 114 100
 63 18.7 0.0 39.0
 88 15.4 0.0 30.4





#35

Dibromofluoromethane

Concen: 41.72 ug/l

RT: 5.50 min Scan# 713

Delta R.T. 0.00 min

Lab File: VX004717.D

Acq: 19 Sep 2018 20:19

Instrument :

MSVOA_X

ClientSampleId :

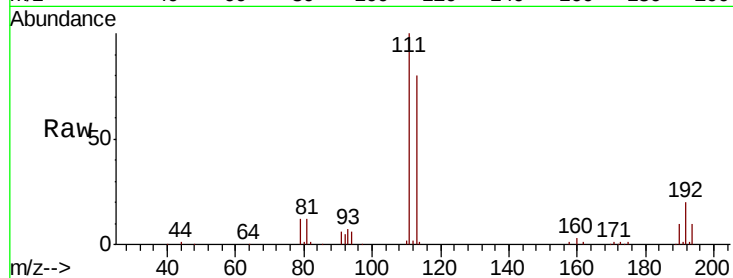
Tot Ion:113 Resp: 121192

Ion Ratio Lower Upper

113 100

111 105.3 82.4 123.6

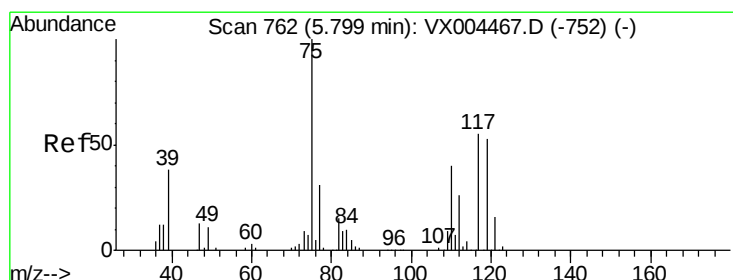
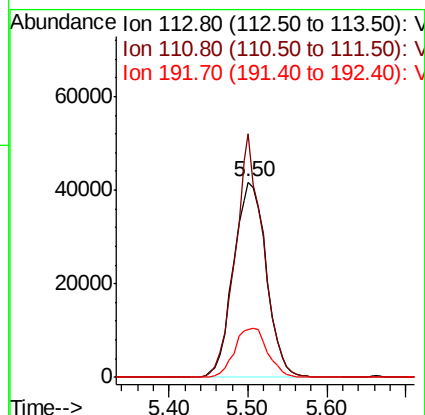
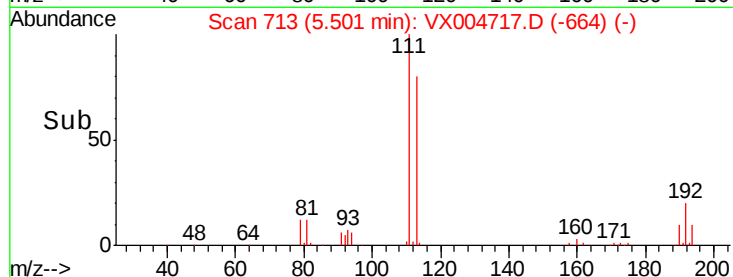
192 25.3 19.4 29.2



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: 3.54 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.13 min

Lab File: VX004717.D

Acq: 19 Sep 2018 20:19

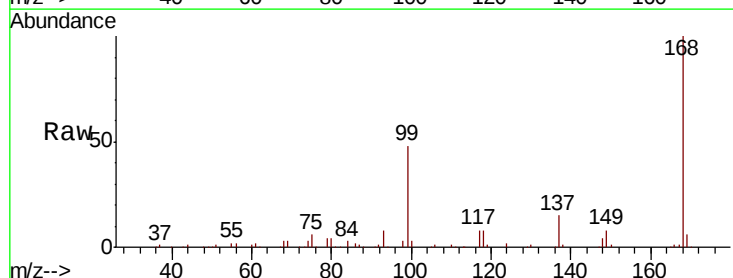
Tgt Ion: 75 Resp: 13644

Ion Ratio Lower Upper

75 100

110 8.5 18.0 54.0#

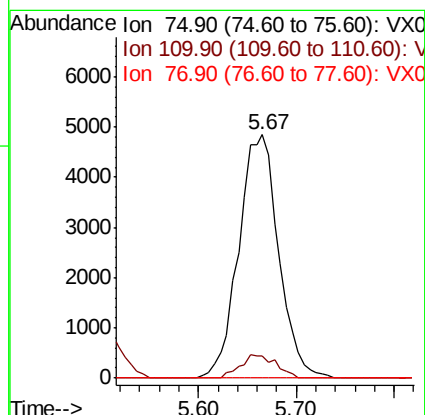
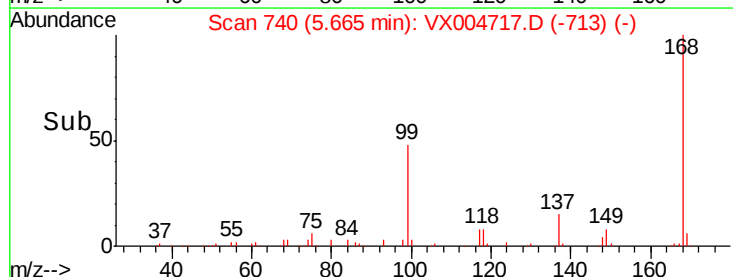
77 0.0 24.6 36.8#

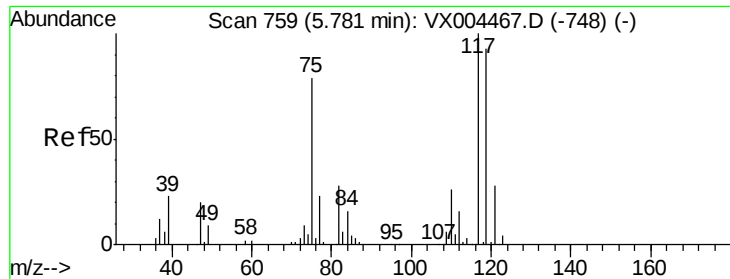


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 4.83 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.12 min

Lab File: VX004717.D

Acq: 19 Sep 2018 20:19

Instrument :

MSVOA_X

ClientSampleId :

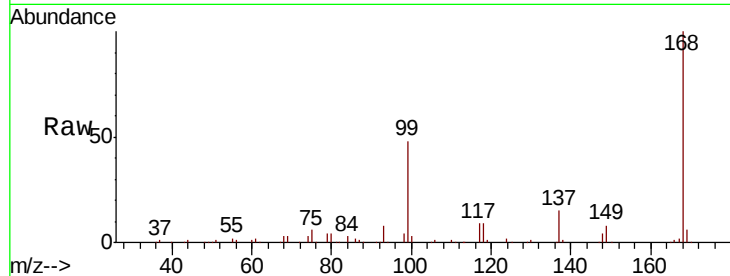
Tot Ion:117 Resp: 18168

Ion Ratio Lower Upper

117 100

119 6.4 78.8 118.2#

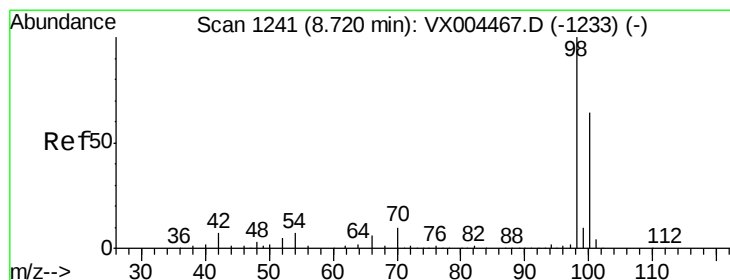
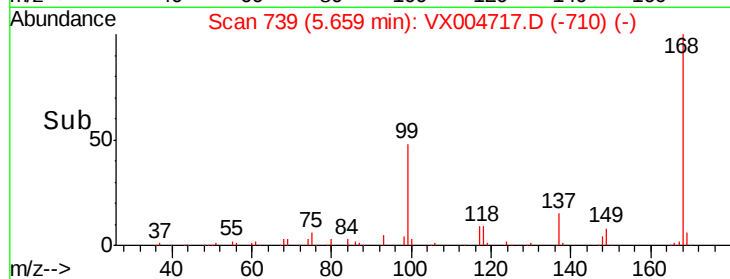
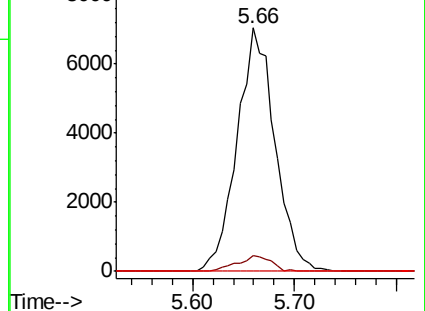
121 0.0 24.9 37.3#



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



#50

Toluene-d8

Concen: 45.80 ug/l

RT: 8.72 min Scan# 1241

Delta R.T. 0.00 min

Lab File: VX004717.D

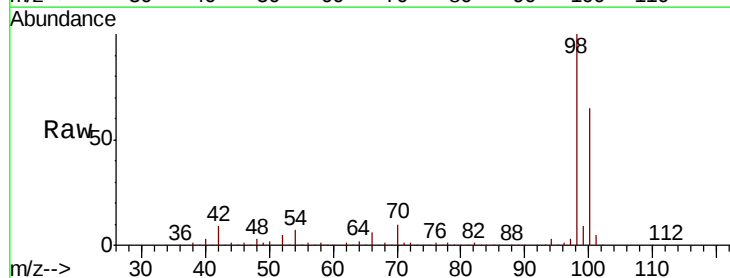
Acq: 19 Sep 2018 20:19

Tgt Ion: 98 Resp: 446150

Ion Ratio Lower Upper

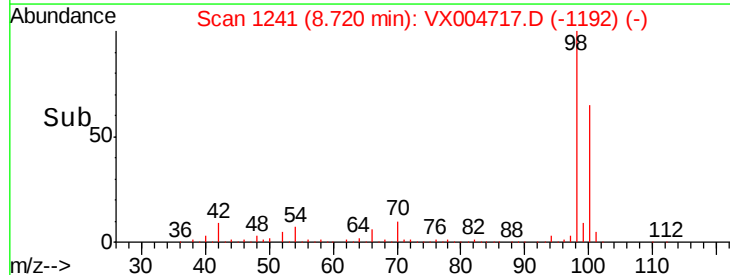
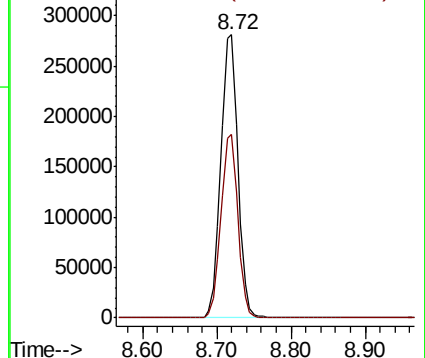
98 100

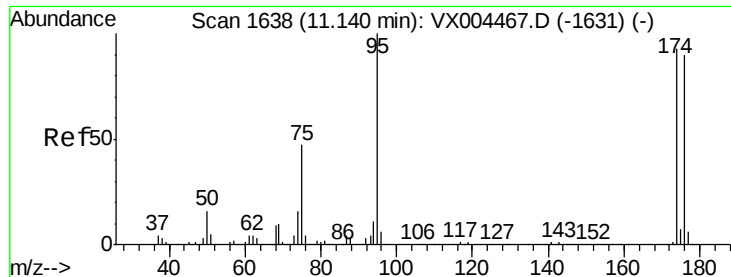
100 64.2 52.9 79.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V

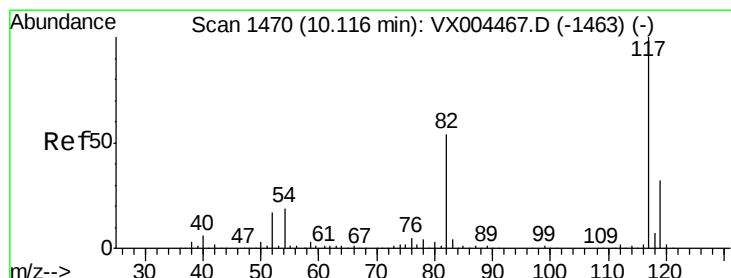
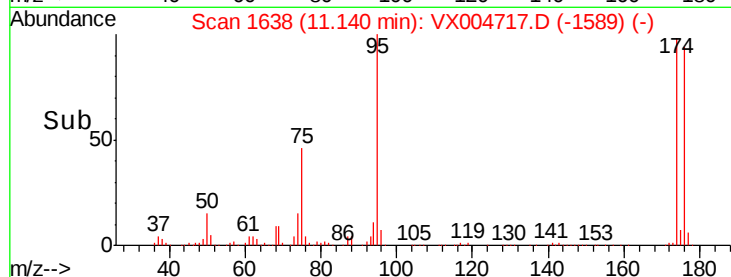
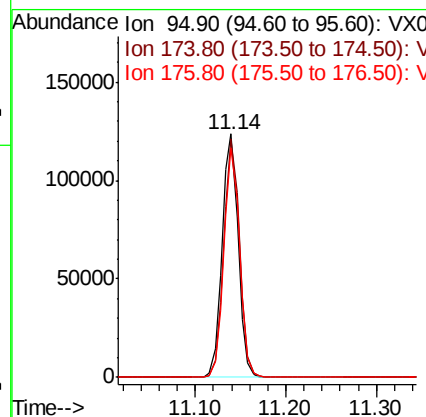
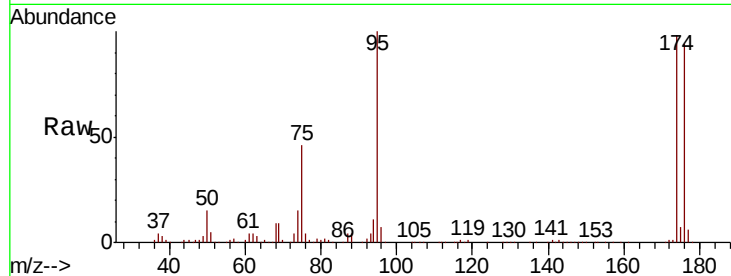




#62
4-Bromofluorobenzene
Concen: 44.18 ug/l
RT: 11.14 min Scan# 1638
Delta R.T. 0.00 min
Lab File: VX004717.D
Acq: 19 Sep 2018 20:19

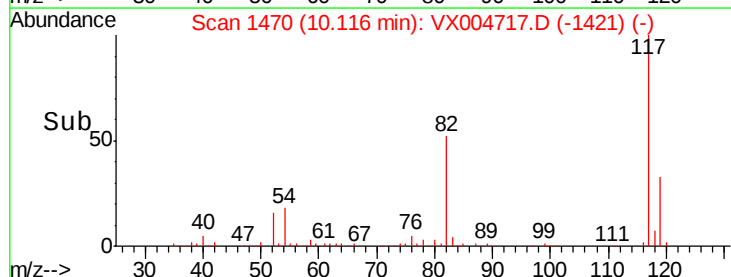
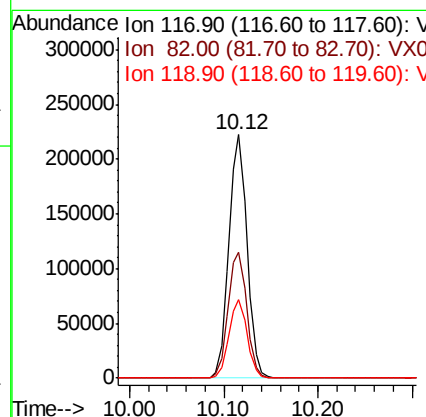
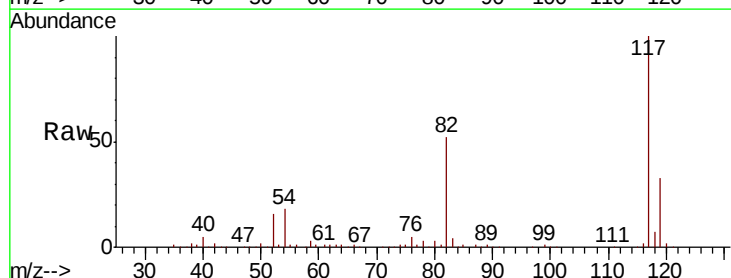
Instrument :
MSVOA_X
ClientSampleId :

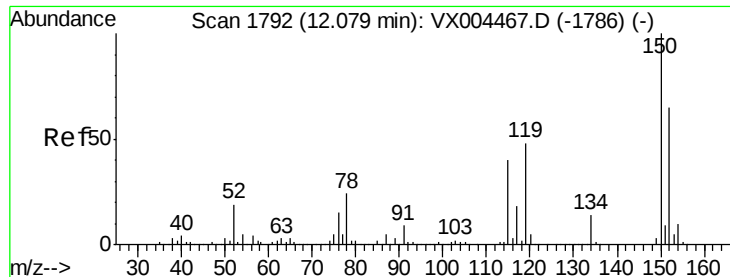
Tot Ion	Ratio	Lower	Upper
95	100		
174	96.8	0.0	185.2
176	92.2	0.0	178.6



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. 0.00 min
Lab File: VX004717.D
Acq: 19 Sep 2018 20:19

Tgt Ion	Ratio	Lower	Upper
117	100		
82	51.9	47.8	71.6
119	32.5	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: VX004717.D

Acq: 19 Sep 2018 20:19

Instrument :

MSVOA_X

ClientSampled :

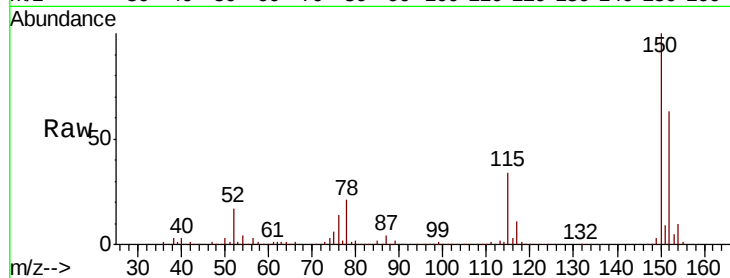
Tot Ion:152 Resp: 165880

Ion Ratio Lower Upper

152 100

115 54.2 39.0 117.0

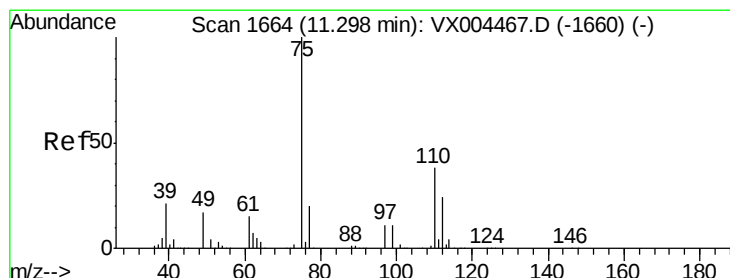
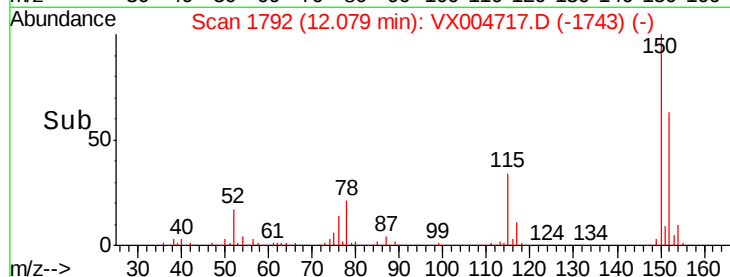
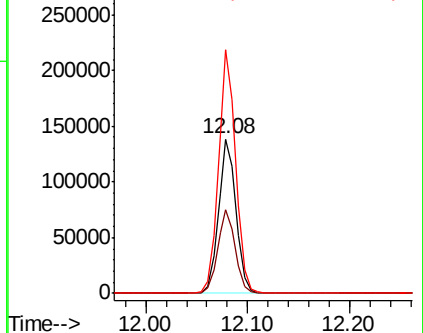
150 155.4 0.0 351.0



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: 21.30 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.16 min

Lab File: VX004717.D

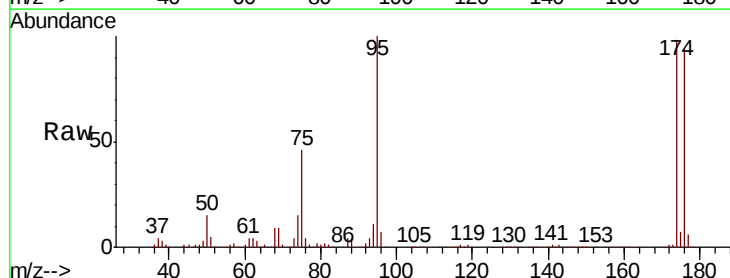
Acq: 19 Sep 2018 20:19

Tgt Ion: 75 Resp: 71087

Ion Ratio Lower Upper

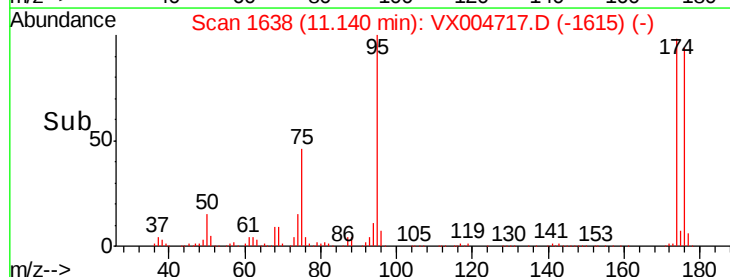
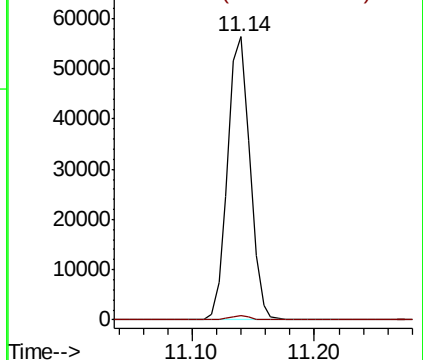
75 100

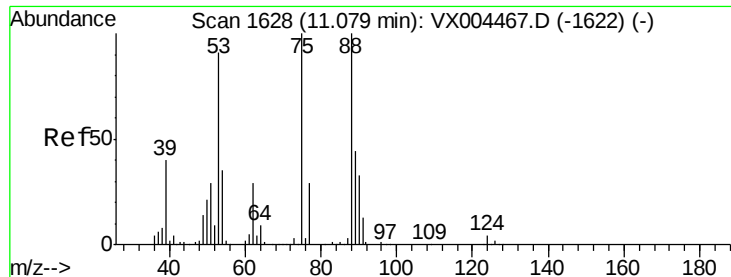
77 1.4 20.2 60.6#



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: 67.89 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.06 min

Lab File: VX004717.D

Acq: 19 Sep 2018 20:19

Instrument :

MSVOA_X

ClientSampleId :

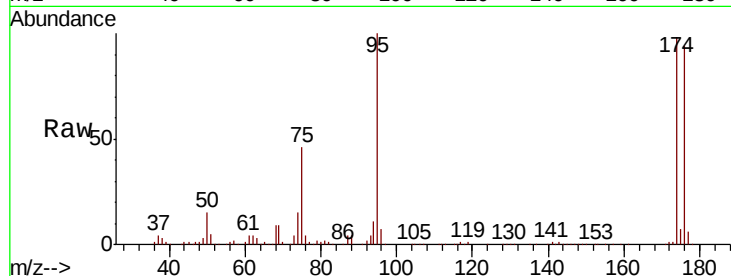
Tot Ion: 75 Resp: 71087

Ion Ratio Lower Upper

75 100

53 0.2 80.1 120.1#

89 0.0 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

