

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX041719\
 Data File : VX009025.D
 Acq On : 17 Apr 2019 19:17
 Operator : JC/SP
 Sample : K2449-03
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 SS042MW127-190415

Quant Time: Apr 18 01:39:42 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X041519W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 17 06:47:58 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	252773	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	404863	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	346169	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	146116	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.06	65	166942	46.86	ug/l	0.00
Spiked Amount			Recovery	=	93.72%	
35) Dibromofluoromethane	5.50	113	121240	46.66	ug/l	0.00
Spiked Amount			Recovery	=	93.32%	
50) Toluene-d8	8.71	98	502074	48.45	ug/l	0.00
Spiked Amount			Recovery	=	96.90%	
62) 4-Bromofluorobenzene	11.13	95	165040	45.12	ug/l	0.00
Spiked Amount			Recovery	=	90.24%	

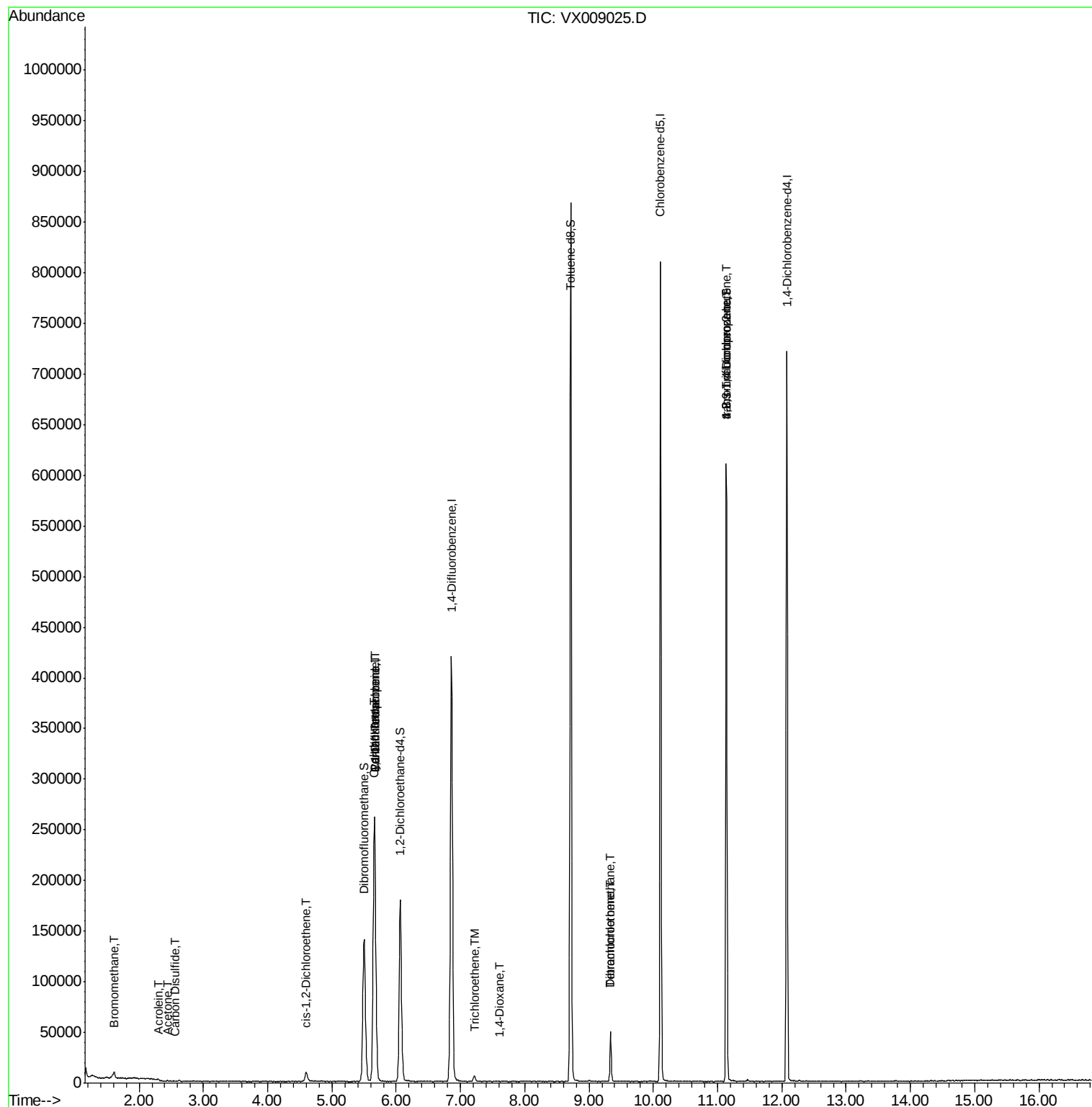
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.60	94	47	3.868	ug/l #	3
13) Acrolein	2.29	56	148	0.217	ug/l #	14
16) Acetone	2.44	43	890	0.482	ug/l	100
17) Carbon Disulfide	2.56	76	661	1.334	ug/l #	75
27) cis-1,2-Dichloroethene	4.59	96	5505	1.677	ug/l	89
28) Bromochloromethane	5.04	49	68	Below Cal	#	21
31) Cyclohexane	5.65	56	5435	0.958	ug/l #	1
36) 1,1-Dichloropropene	5.67	75	19941	4.762	ug/l #	50
38) Carbon Tetrachloride	5.66	117	24600	6.930	ug/l #	17
44) Trichloroethene	7.21	130	2180	0.720	ug/l	83
49) 1,4-Dioxane	7.60	88	26	0.324	ug/l #	1
60) Dibromochloromethane	9.34	129	8938	3.179	ug/l #	10
64) Tetrachloroethene	9.34	164	9160	3.483	ug/l	97
76) 1,2,3-Trichloropropane	11.13	75	83924	23.522	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.13	75	83924	60.388	ug/l #	11

(#) = 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: VX009025.D

Acq: 17 Apr 2019 19:17

Instrument :

MSVOA_X

ClientSampleId :

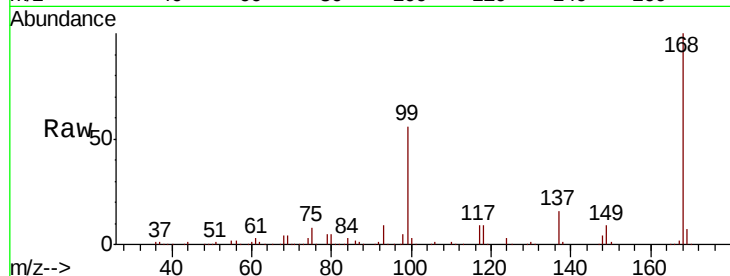
SS042MW127-190415

Tot Ion:168 Resp: 252773

Ion Ratio Lower Upper

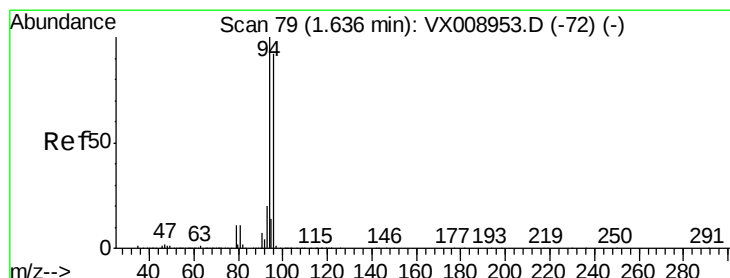
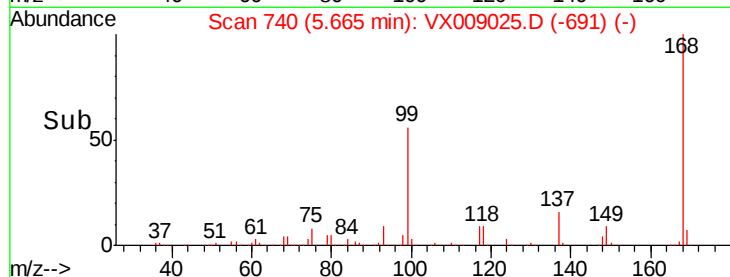
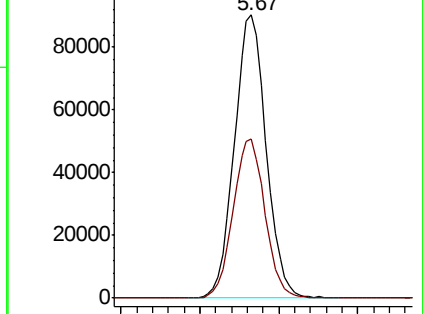
168 100

99 56.0 43.0 64.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#5

Bromomethane

Concen: 3.868 ug/l

RT: 1.60 min Scan# 74

Delta R.T. -0.03 min

Lab File: VX009025.D

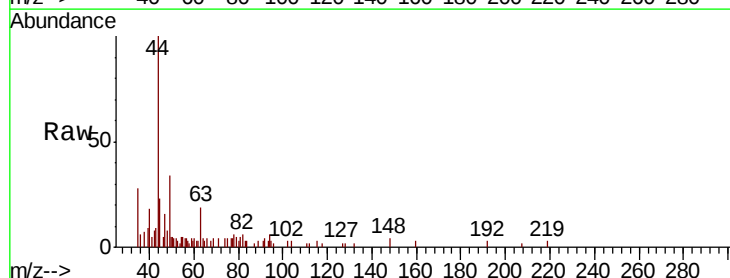
Acq: 17 Apr 2019 19:17

Tgt Ion: 94 Resp: 47

Ion Ratio Lower Upper

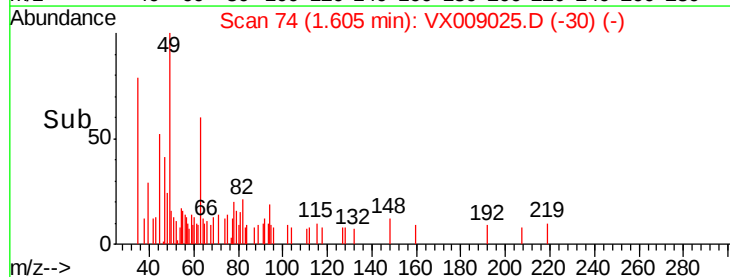
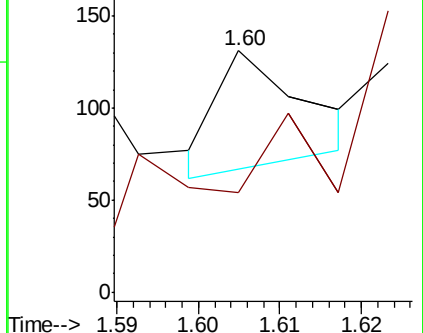
94 100

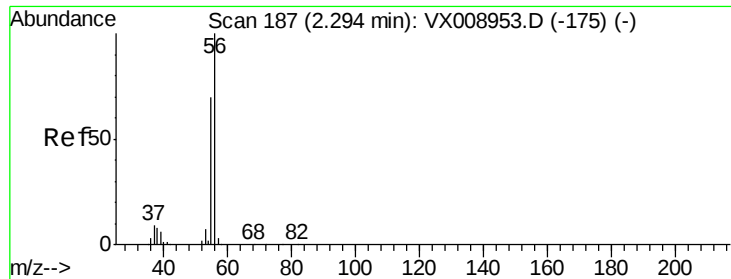
96 0.0 73.9 110.9#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#13

Acrolein

Concen: 0.217 ug/l

RT: 2.29 min Scan# 186

Delta R.T. -0.01 min

Lab File: VX009025.D

Acq: 17 Apr 2019 19:17

Instrument :

MSVOA_X

ClientSampleId :

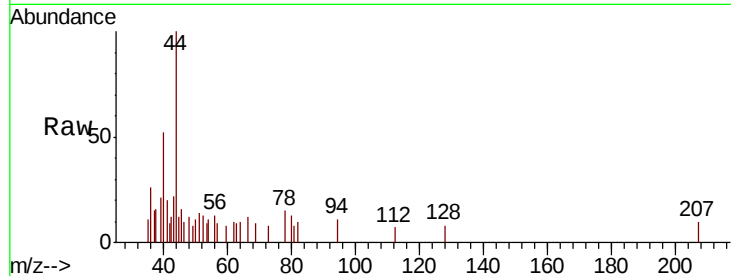
SS042MW127-190415

Tot Ion: 56 Resp: 148

Ion Ratio Lower Upper

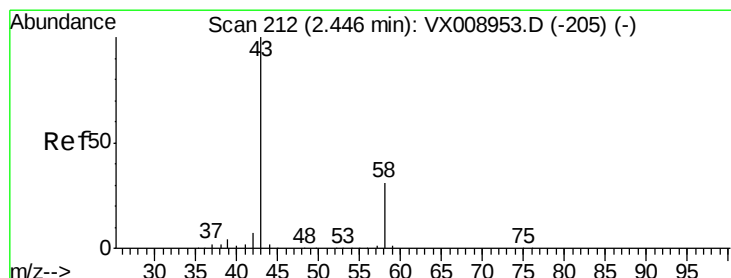
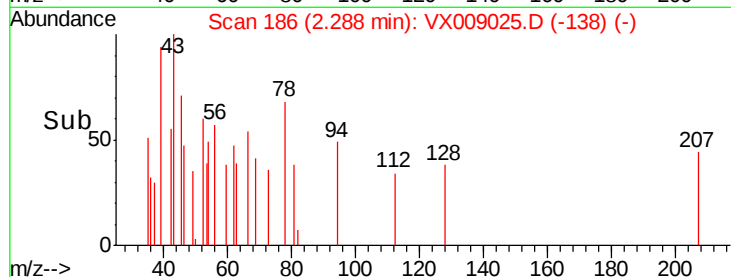
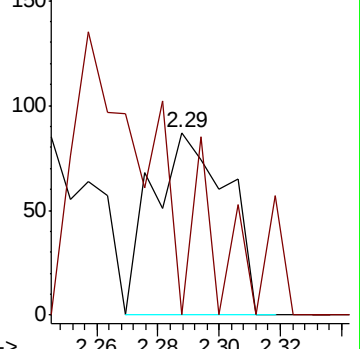
56 100

55 0.0 56.6 84.8#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#16

Acetone

Concen: 0.482 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.01 min

Lab File: VX009025.D

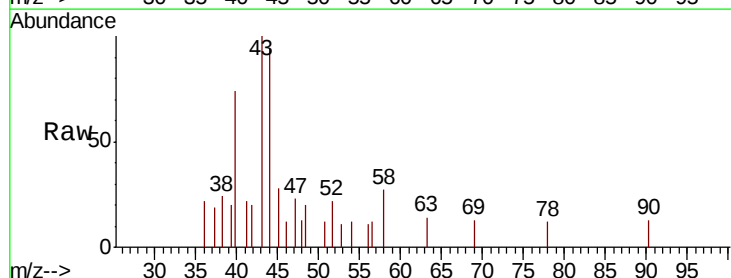
Acq: 17 Apr 2019 19:17

Tgt Ion: 43 Resp: 890

Ion Ratio Lower Upper

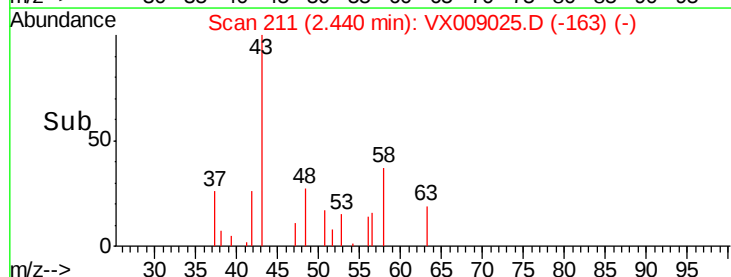
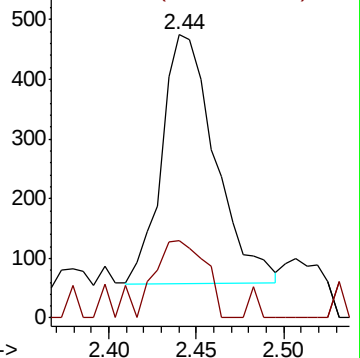
43 100

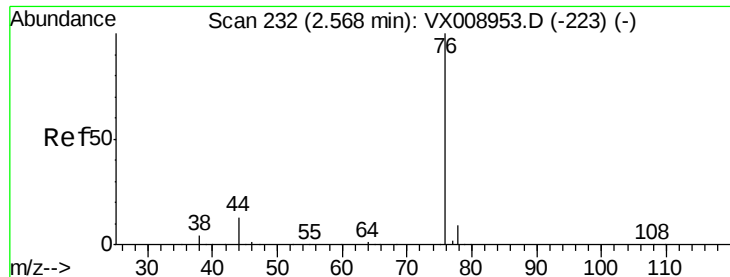
58 31.0 24.8 37.2



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#17

Carbon Disulfide

Concen: 1.334 ug/l

RT: 2.56 min Scan# 231

Delta R.T. -0.01 min

Lab File: VX009025.D

Acq: 17 Apr 2019 19:17

Instrument :

MSVOA_X

ClientSampleId :

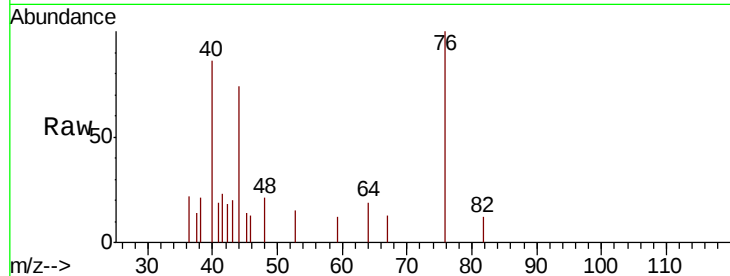
SS042MW127-190415

Tot Ion: 76 Resp: 661

Ion Ratio Lower Upper

76 100

78 0.0 7.2 10.8#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

2.56

400

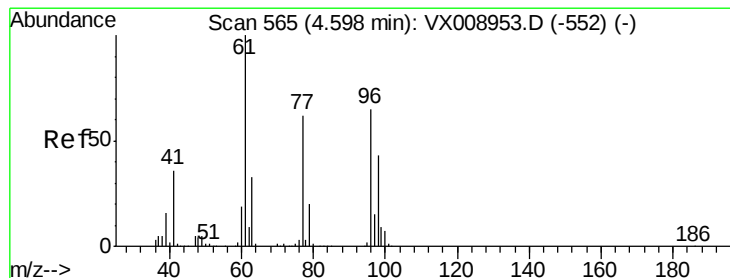
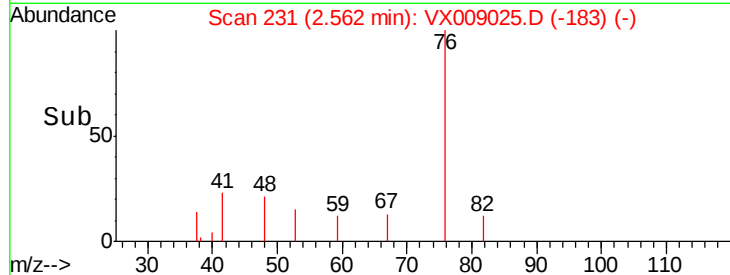
300

200

100

0

Time-->



#27

cis-1,2-Dichloroethene

Concen: 1.677 ug/l

RT: 4.59 min Scan# 564

Delta R.T. -0.01 min

Lab File: VX009025.D

Acq: 17 Apr 2019 19:17

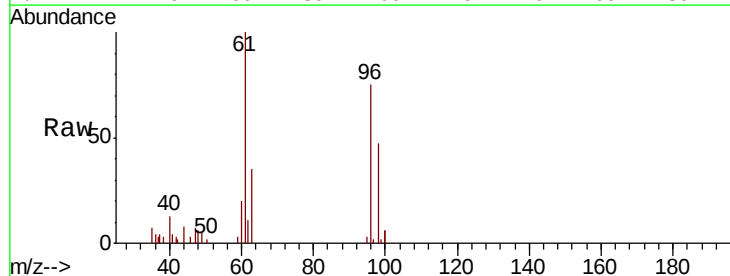
Tgt Ion: 96 Resp: 5505

Ion Ratio Lower Upper

96 100

61 142.1 0.0 322.0

98 67.6 0.0 128.4



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

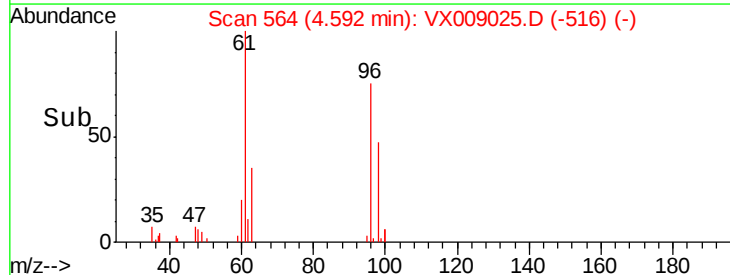
3000

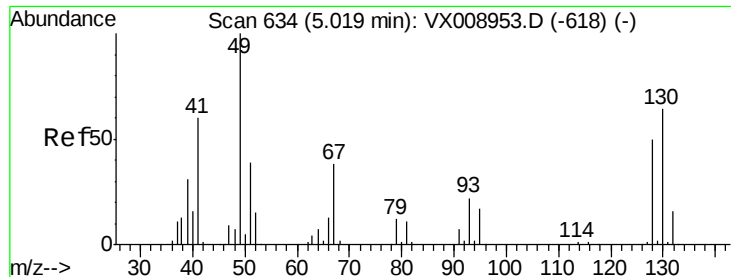
2000

1000

0

Time-->





#28

Bromochloromethane

Concen: Below Cal

RT: 5.04 min Scan# 638

Delta R.T. 0.02 min

Lab File: VX009025.D

Acq: 17 Apr 2019 19:17

Instrument :

MSVOA_X

ClientSampleId :

SS042MW127-190415

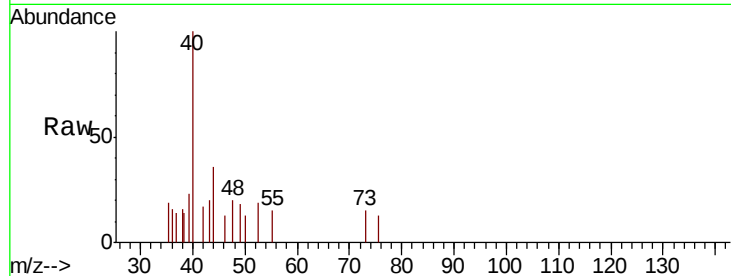
Tot Ion: 49 Resp: 68

Ion Ratio Lower Upper

49 100

129 0.0 0.0 3.6

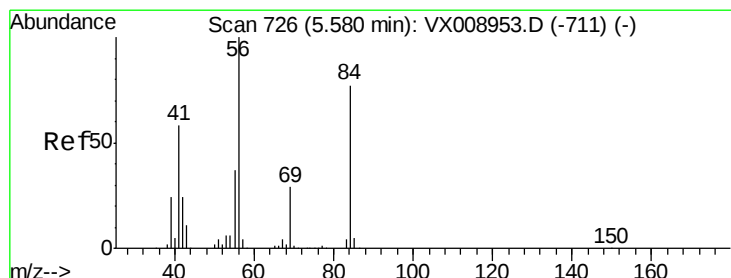
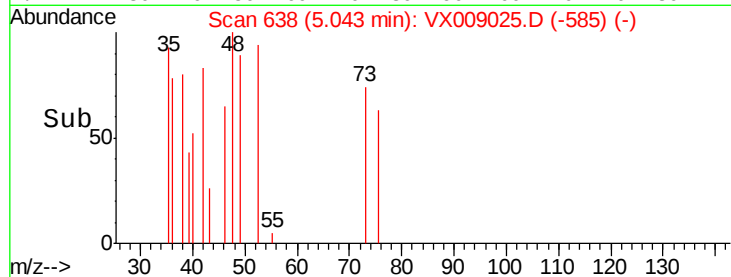
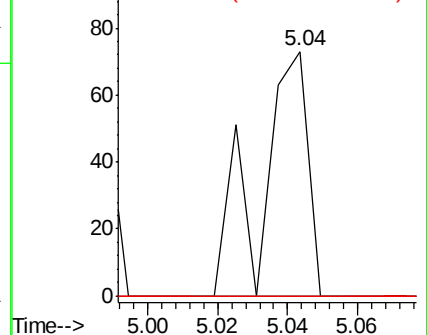
130 0.0 50.4 75.6#



Abundance Ion 48.90 (48.60 to 49.60): VX0

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V



#31

Cyclohexane

Concen: 0.958 ug/l

RT: 5.65 min Scan# 738

Delta R.T. 0.07 min

Lab File: VX009025.D

Acq: 17 Apr 2019 19:17

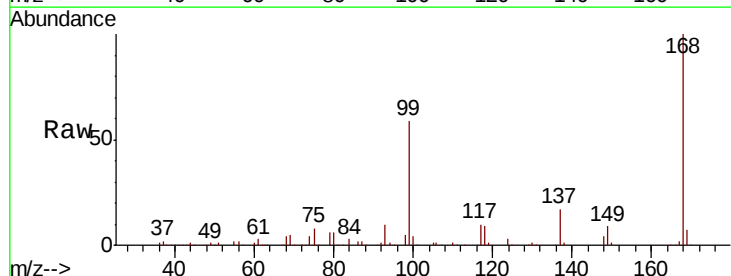
Tgt Ion: 56 Resp: 5435

Ion Ratio Lower Upper

56 100

69 185.3 23.3 34.9#

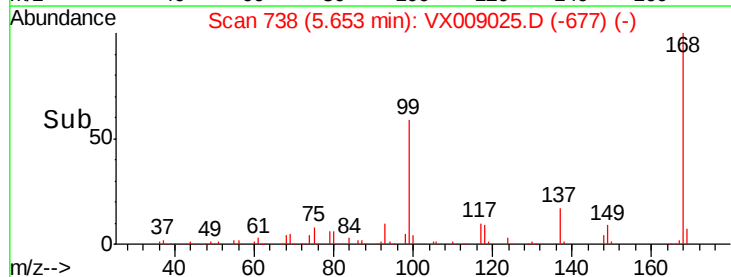
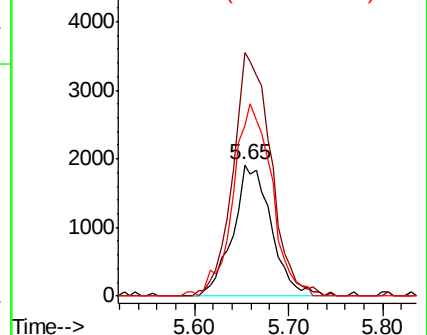
84 130.2 61.7 92.5#

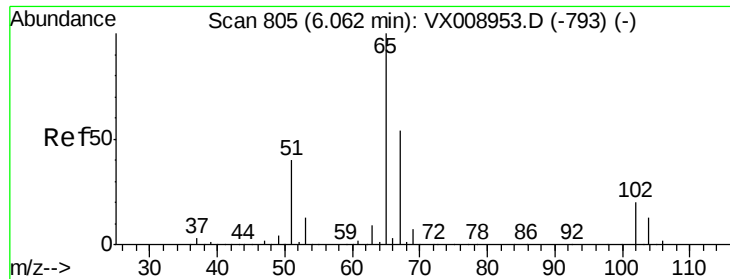


Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0

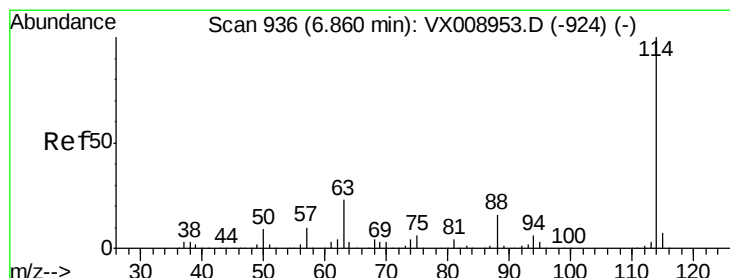
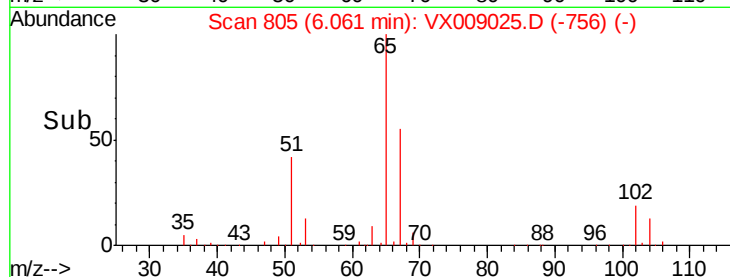
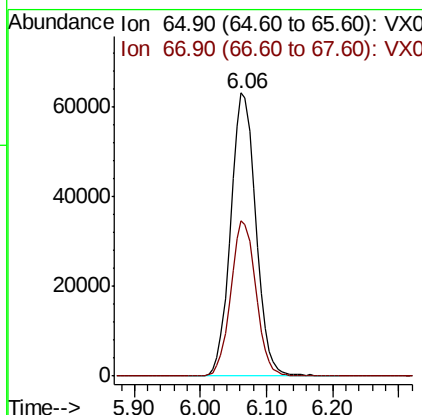
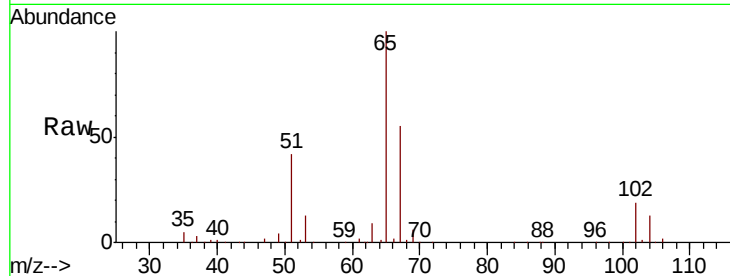




#33
 1,2-Dichloroethane-d4
 Concen: 46.864 ug/l
 RT: 6.06 min Scan# 805
 Delta R.T. -0.00 min
 Lab File: VX009025.D
 Acq: 17 Apr 2019 19:17

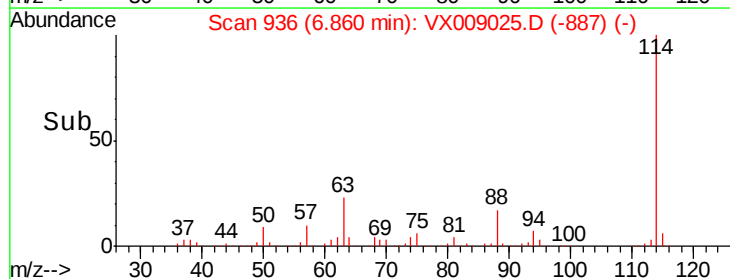
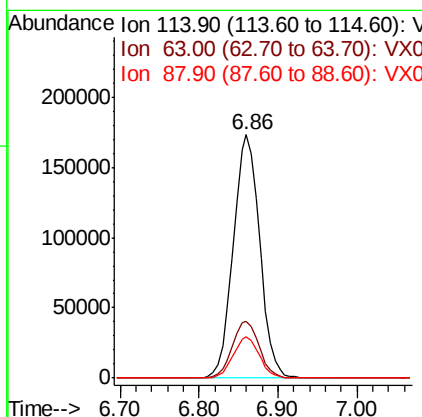
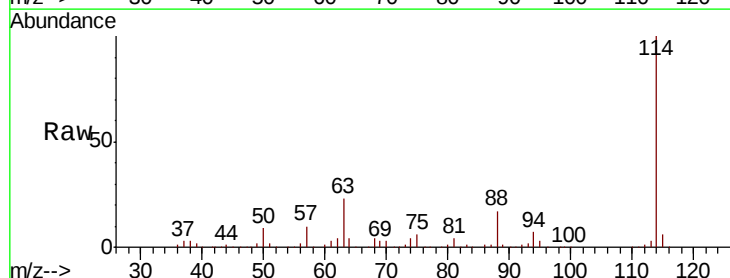
Instrument :
 MSVOA_X
 ClientSampleId :
 SS042MW127-190415

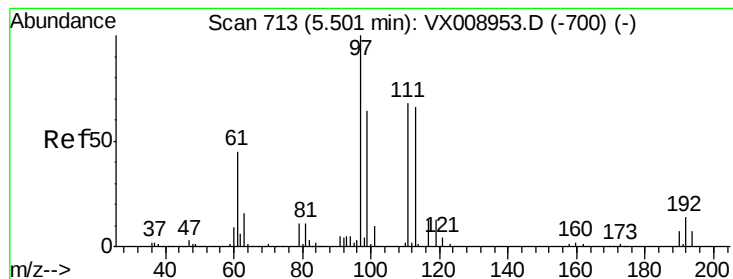
Tot Ion: 65 Resp: 166942
 Ion Ratio Lower Upper
 65 100
 67 54.7 0.0 108.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. -0.00 min
 Lab File: VX009025.D
 Acq: 17 Apr 2019 19:17

Tgt Ion: 114 Resp: 404863
 Ion Ratio Lower Upper
 114 100
 63 23.5 0.0 46.0
 88 16.8 0.0 32.6





#35

Dibromofluoromethane

Concen: 46.661 ug/l

RT: 5.50 min Scan# 713

Delta R.T. -0.00 min

Lab File: VX009025.D

Acq: 17 Apr 2019 19:17

Instrument :

MSVOA_X

ClientSampleId :

SS042MW127-190415

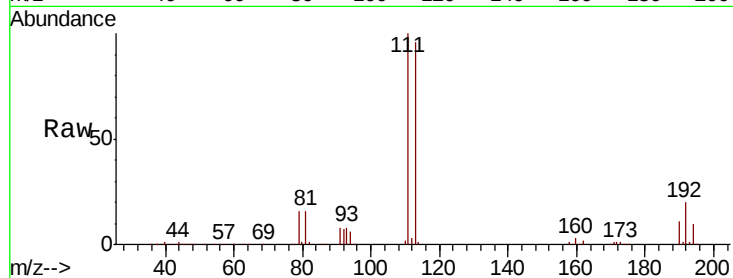
Tot Ion:113 Resp: 121240

Ion Ratio Lower Upper

113 100

111 103.6 82.9 124.3

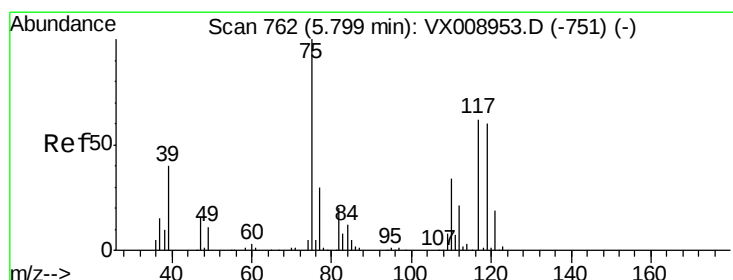
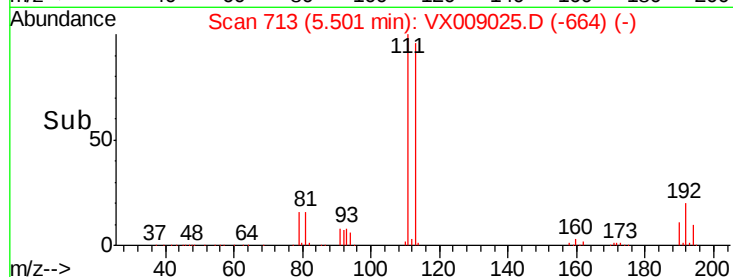
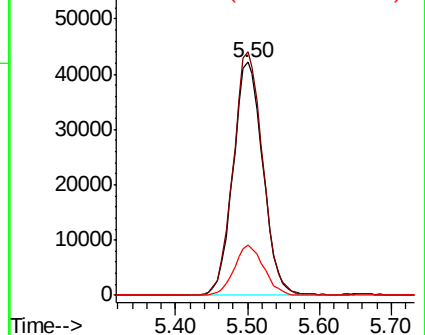
192 21.3 17.4 26.0



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: 4.762 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.13 min

Lab File: VX009025.D

Acq: 17 Apr 2019 19:17

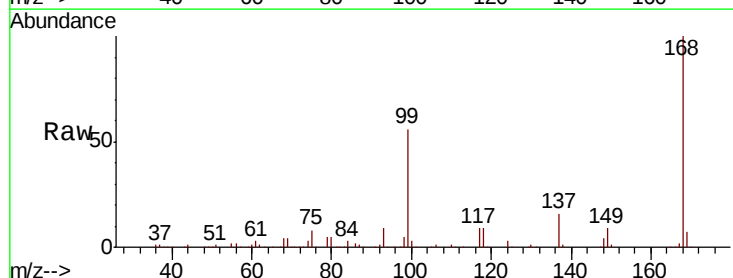
Tgt Ion: 75 Resp: 19941

Ion Ratio Lower Upper

75 100

110 8.9 16.9 50.7#

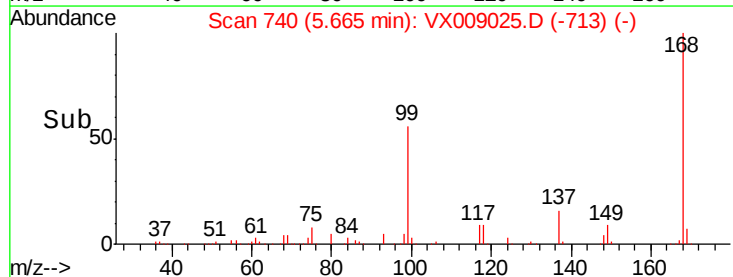
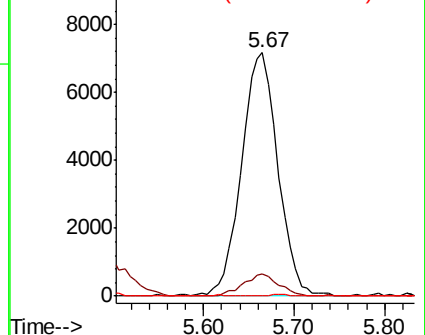
77 0.3 25.0 37.4#

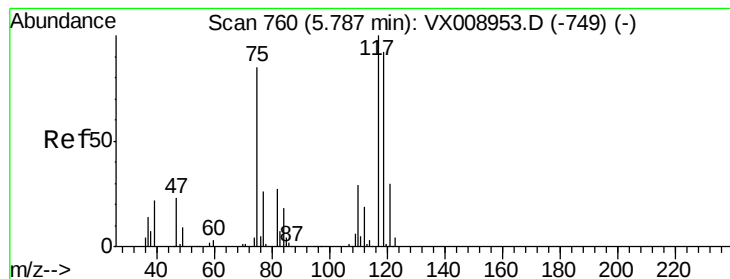


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.930 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.13 min

Lab File: VX009025.D

Acq: 17 Apr 2019 19:17

Instrument :

MSVOA_X

ClientSampleId :

SS042MW127-190415

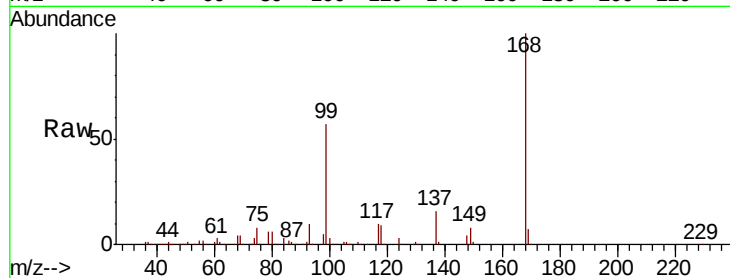
Tot Ion:117 Resp: 24600

Ion Ratio Lower Upper

117 100

119 4.8 73.8 110.8#

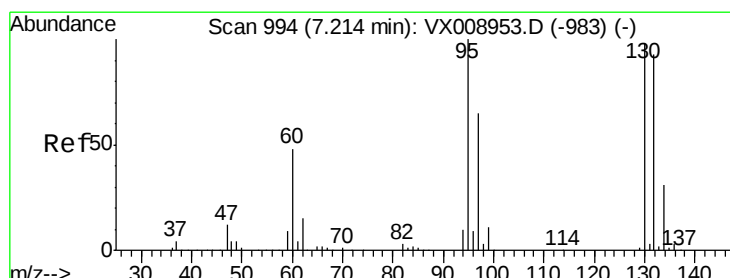
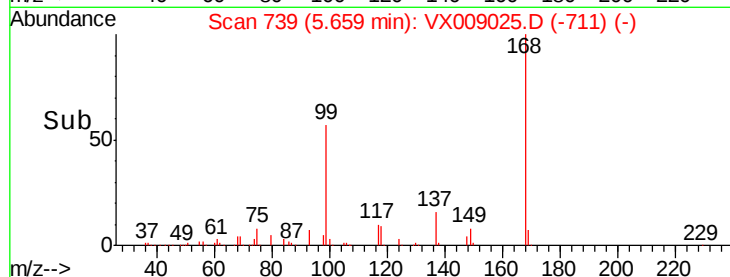
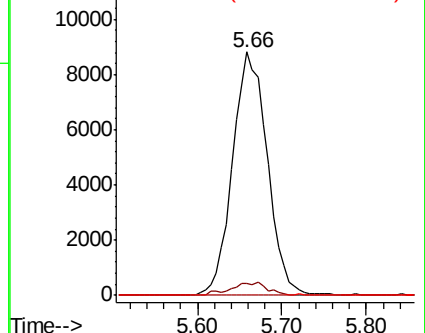
121 0.0 23.6 35.4#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#44

Trichloroethene

Concen: 0.720 ug/l

RT: 7.21 min Scan# 994

Delta R.T. -0.00 min

Lab File: VX009025.D

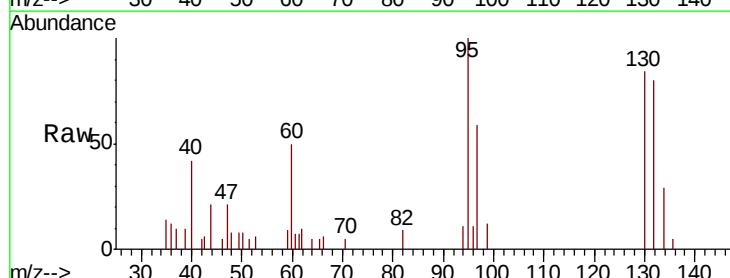
Acq: 17 Apr 2019 19:17

Tgt Ion:130 Resp: 2180

Ion Ratio Lower Upper

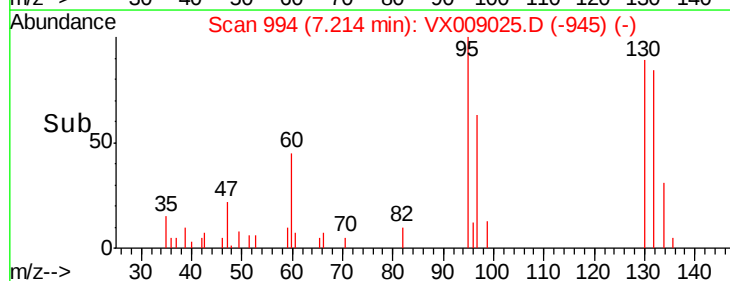
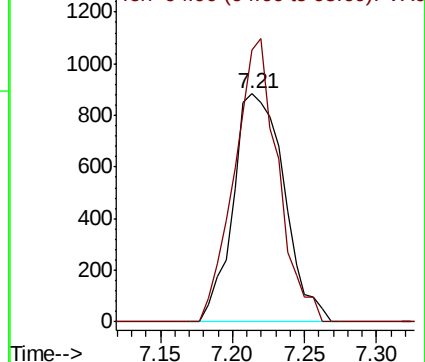
130 100

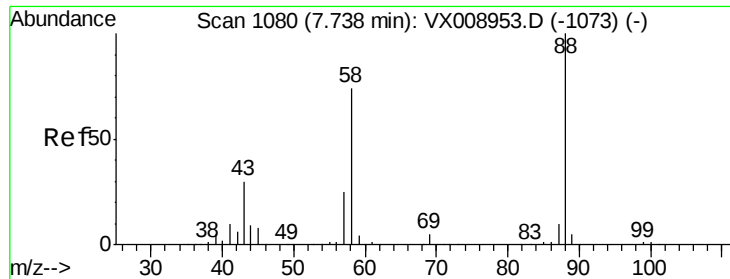
95 119.3 0.0 203.2



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0





#49

1,4-Dioxane

Concen: 0.324 ug/l

RT: 7.60 min Scan# 1058

Delta R.T. -0.13 min

Lab File: VX009025.D

Acq: 17 Apr 2019 19:17

Instrument :

MSVOA_X

ClientSampleId :

SS042MW127-190415

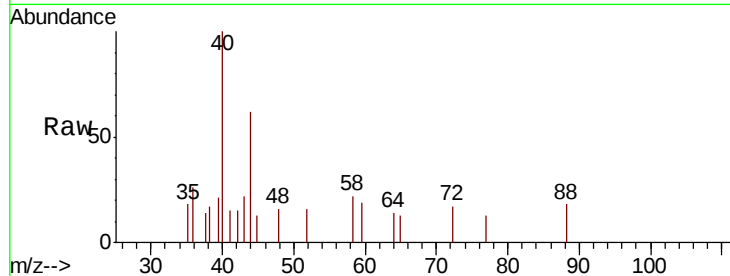
Tot Ion: 88 Resp: 26

Ion Ratio Lower Upper

88 100

43 284.6 29.3 43.9#

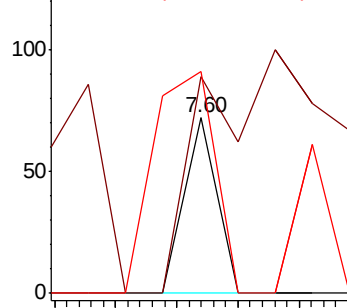
58 242.3 62.6 93.8#



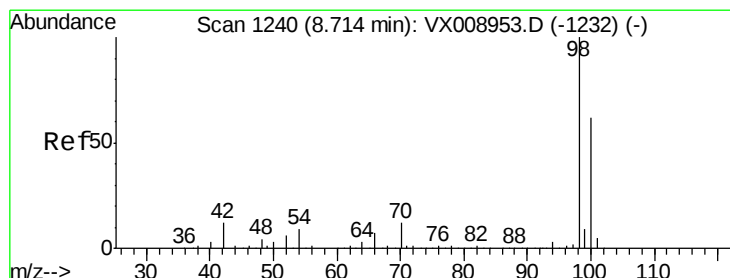
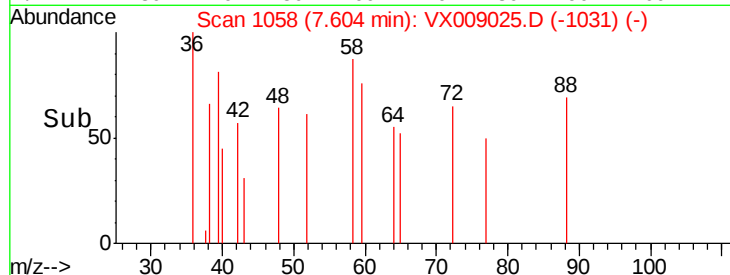
Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



Time-->



#50

Toluene-d8

Concen: 48.452 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX009025.D

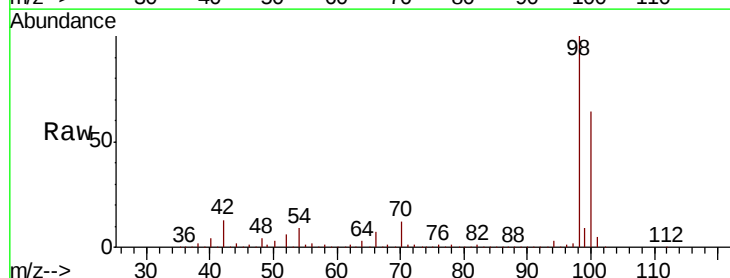
Acq: 17 Apr 2019 19:17

Tgt Ion: 98 Resp: 502074

Ion Ratio Lower Upper

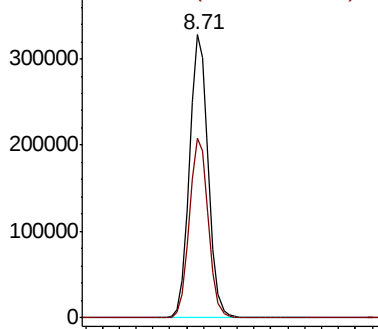
98 100

100 64.5 51.4 77.2

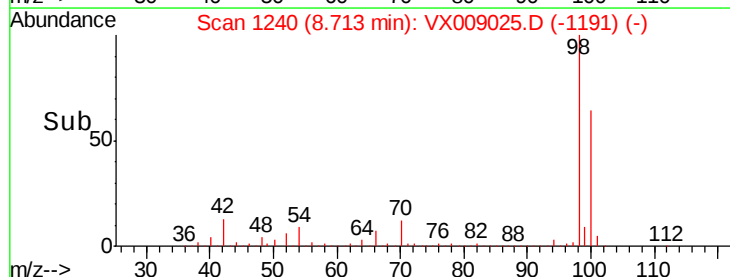


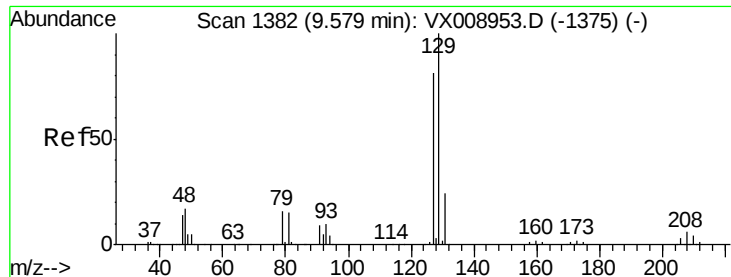
Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V



Time-->

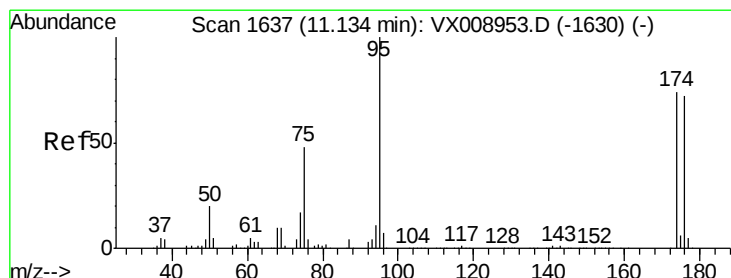
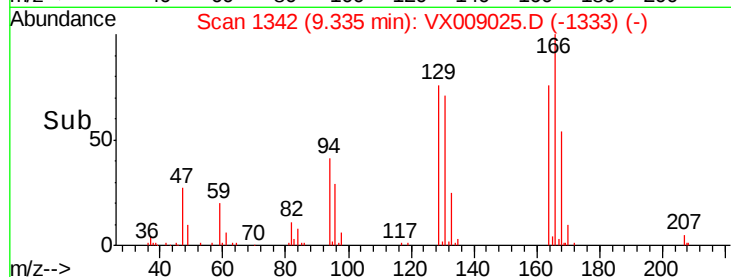
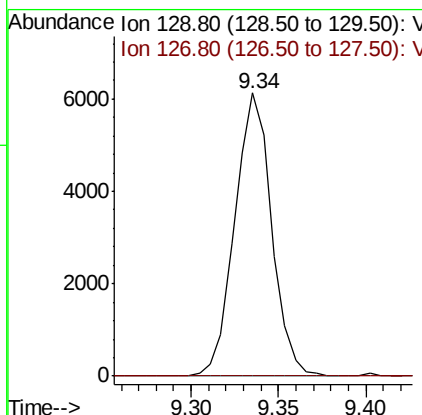
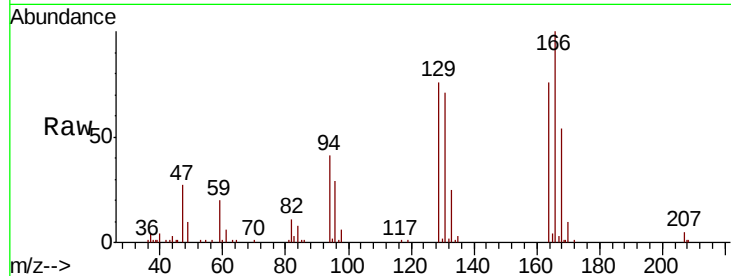




#60
 Dibromochloromethane
 Concen: 3.179 ug/l
 RT: 9.34 min Scan# 1342
 Delta R.T. -0.24 min
 Lab File: VX009025.D
 Acq: 17 Apr 2019 19:17

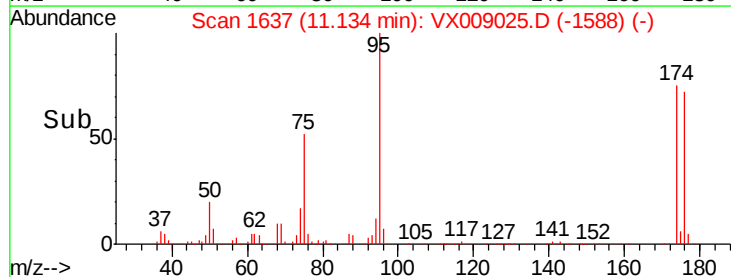
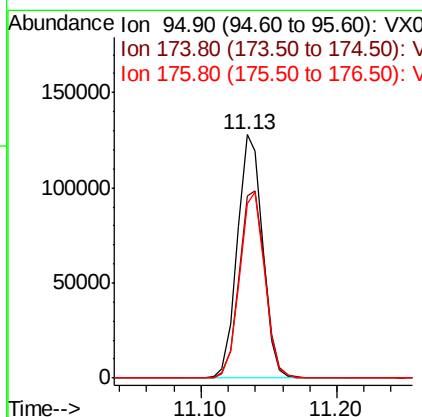
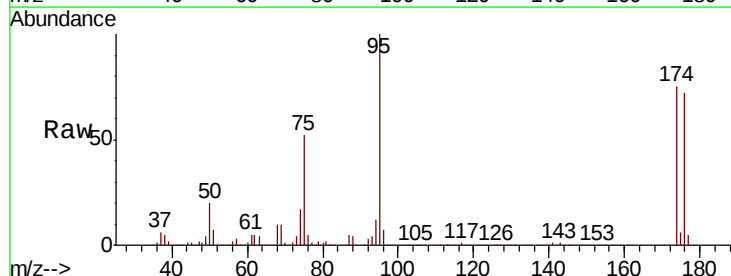
Instrument :
 MSVOA_X
 ClientSampleId :
 SS042MW127-190415

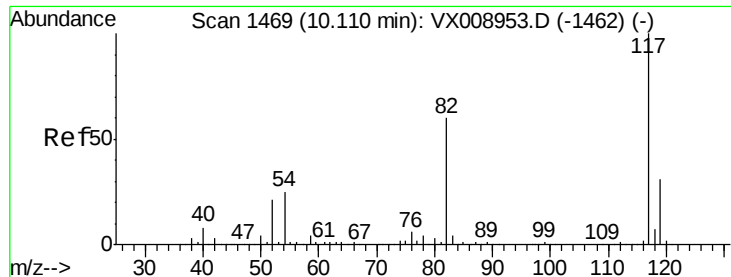
Tot Ion:129 Resp: 8938
 Ion Ratio Lower Upper
 129 100
 127 0.0 39.1 117.2#



#62
 4-Bromofluorobenzene
 Concen: 45.119 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. -0.00 min
 Lab File: VX009025.D
 Acq: 17 Apr 2019 19:17

Tgt Ion: 95 Resp: 165040
 Ion Ratio Lower Upper
 95 100
 174 79.1 0.0 159.6
 176 76.1 0.0 154.8

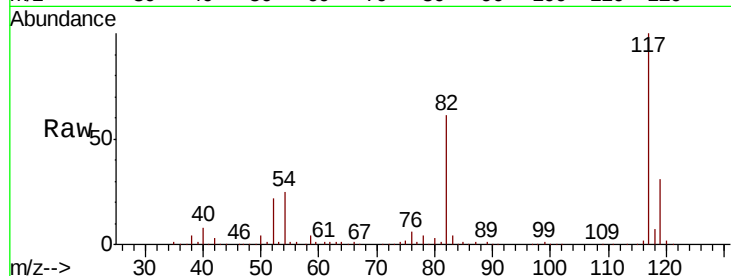




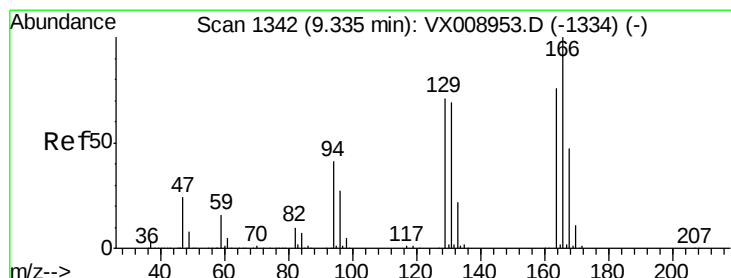
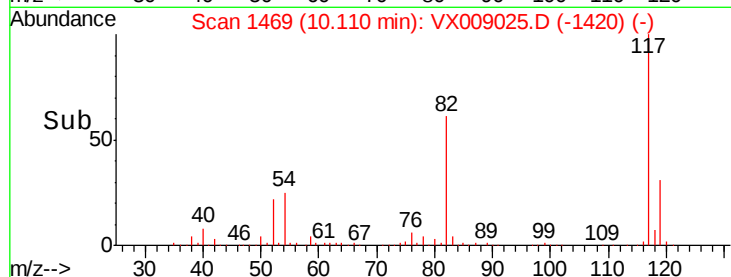
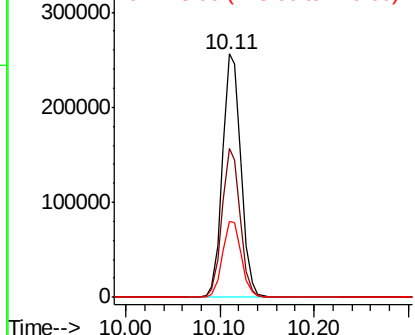
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. -0.00 min
Lab File: VX009025.D
Acq: 17 Apr 2019 19:17

Instrument :
MSVOA_X
ClientSampleId :
SS042MW127-190415

Tot Ion:117 Resp: 346169
Ion Ratio Lower Upper
117 100
82 60.9 48.2 72.4
119 31.5 25.0 37.6



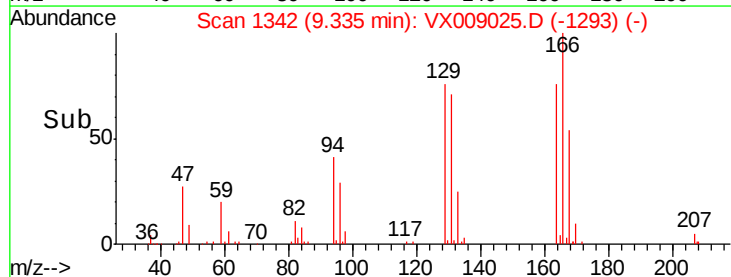
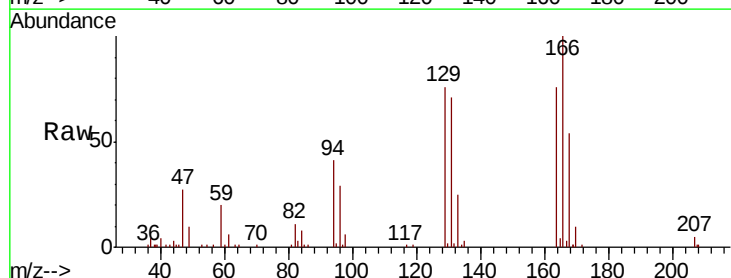
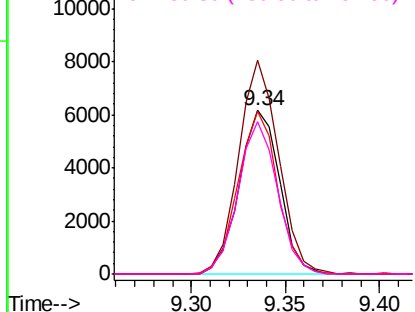
Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

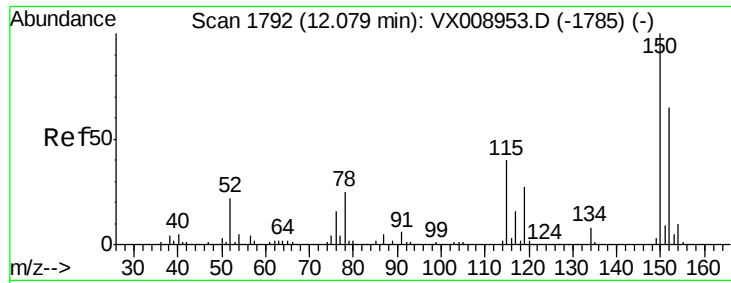


#64
Tetrachloroethene
Concen: 3.483 ug/l
RT: 9.34 min Scan# 1342
Delta R.T. -0.00 min
Lab File: VX009025.D
Acq: 17 Apr 2019 19:17

Tgt Ion:164 Resp: 9160
Ion Ratio Lower Upper
164 100
166 130.8 105.0 157.4
129 99.5 74.2 111.4
131 93.1 72.2 108.2

Abundance Ion 163.80 (163.50 to 164.50): V
Ion 165.80 (165.50 to 166.50): V
Ion 128.80 (128.50 to 129.50): V
Ion 130.80 (130.50 to 131.50): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX009025.D

Acq: 17 Apr 2019 19:17

Instrument :

MSVOA_X

ClientSampleId :

SS042MW127-190415

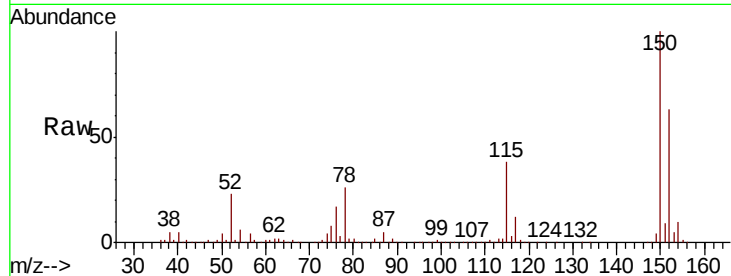
Tot Ion:152 Resp: 146116

Ion Ratio Lower Upper

152 100

115 60.1 41.4 124.2

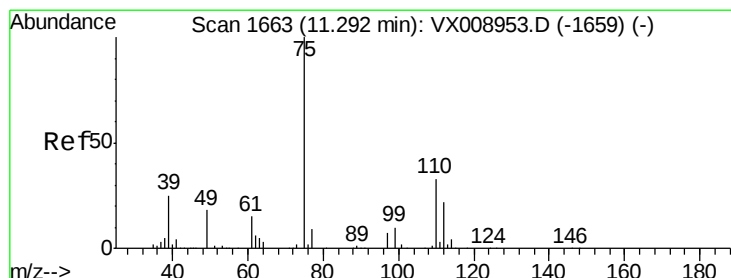
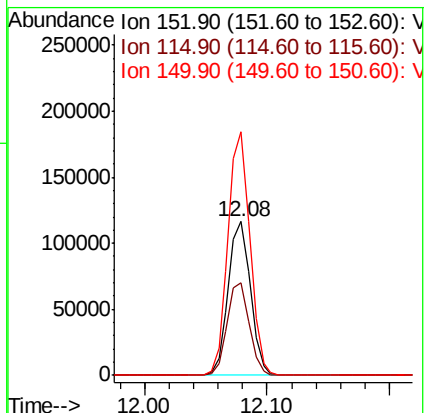
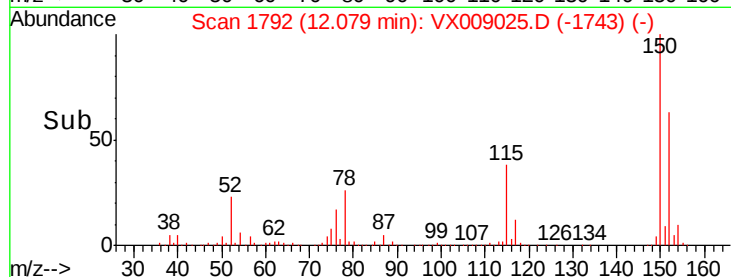
150 156.2 0.0 349.8



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: 23.522 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX009025.D

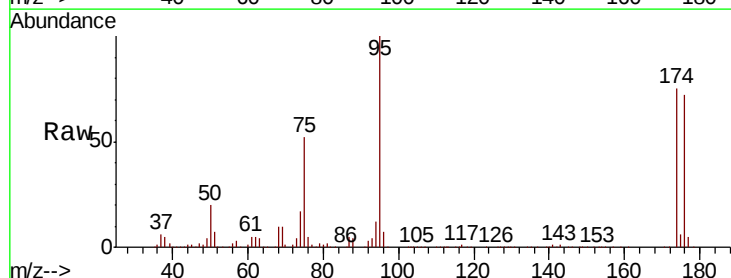
Acq: 17 Apr 2019 19:17

Tgt Ion: 75 Resp: 83924

Ion Ratio Lower Upper

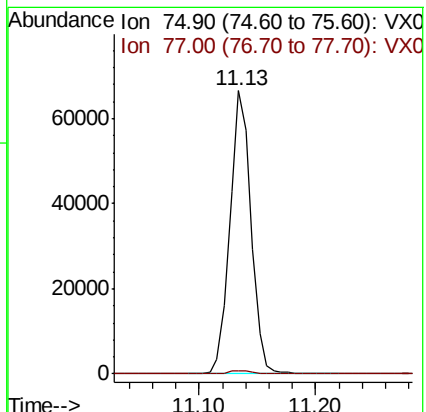
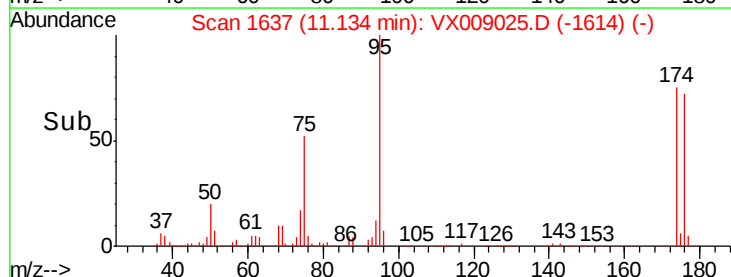
75 100

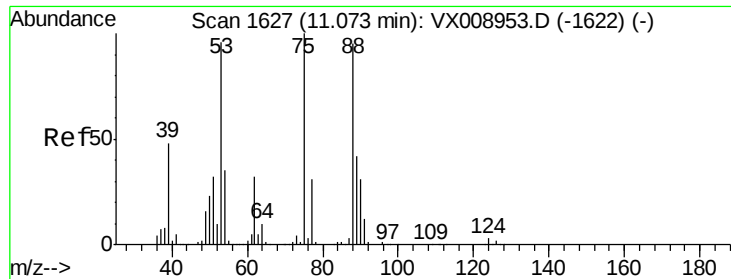
77 1.4 22.7 68.0#



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: 60.388 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX009025.D

Acq: 17 Apr 2019 19:17

Instrument :

MSVOA_X

ClientSampleId :

SS042MW127-190415

Tot Ion: 75 Resp: 83924

Ion Ratio Lower Upper

75 100

53 0.1 78.2 117.4#

89 0.0 36.0 54.0#

