

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX041619\
 Data File : VX008987.D
 Acq On : 16 Apr 2019 15:05
 Operator : JC/SP
 Sample : K2425-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 KY038PS027-190415

Quant Time: Apr 17 04:17:47 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X041519W.M
 Quant Title : SW846 8260
 QLast Update : Tue Apr 16 09:35:21 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	266787	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	424601	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	370517	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	159023	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	172538	45.89	ug/l	0.00
Spiked Amount			Recovery	=	91.78%	
35) Dibromofluoromethane	5.50	113	126434	46.40	ug/l	0.00
Spiked Amount			Recovery	=	92.80%	
50) Toluene-d8	8.71	98	529146	48.69	ug/l	0.00
Spiked Amount			Recovery	=	97.38%	
62) 4-Bromofluorobenzene	11.13	95	176551	46.02	ug/l	0.00
Spiked Amount			Recovery	=	92.04%	

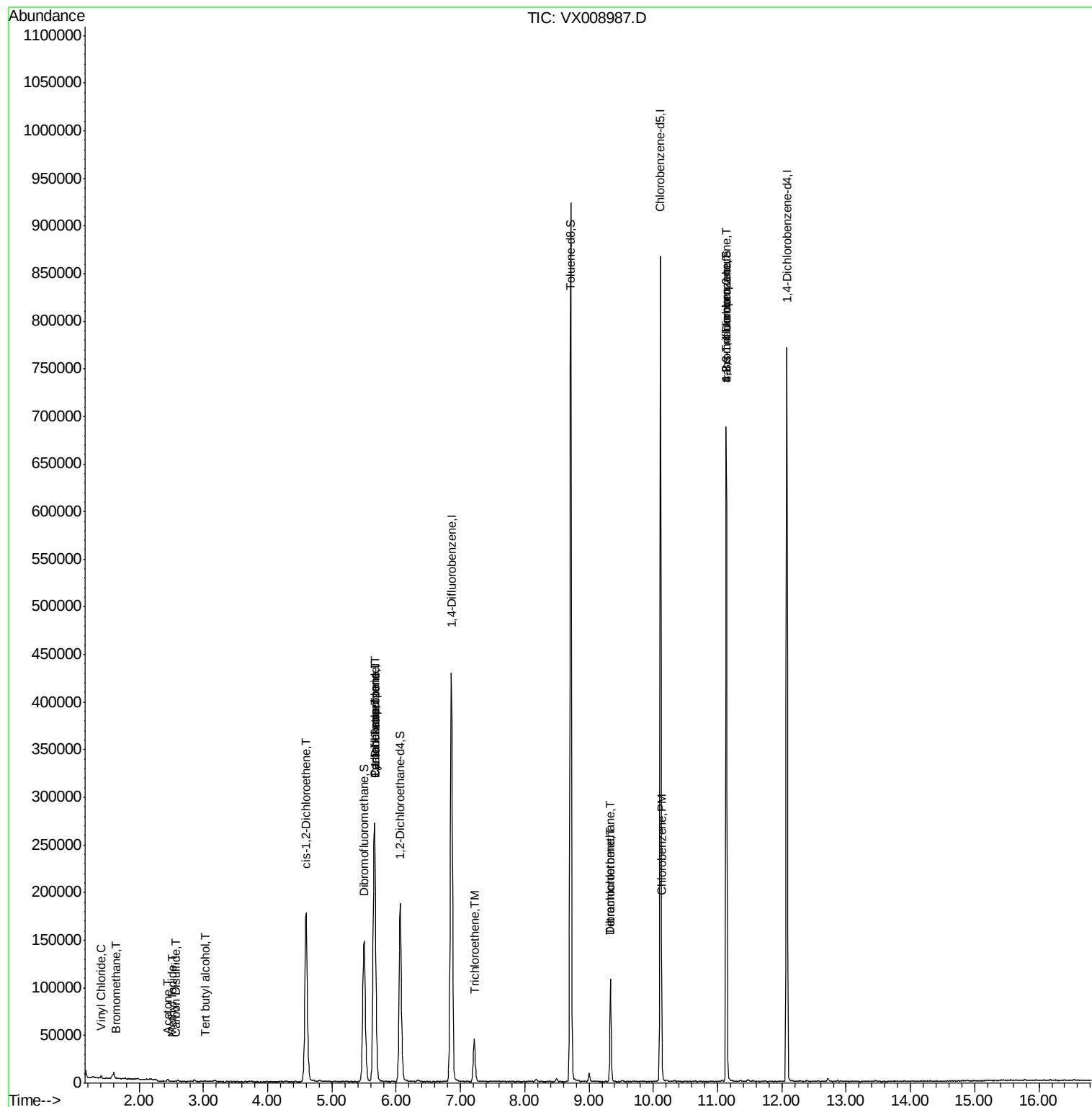
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Vinyl Chloride	1.41	62	2106	0.574	ug/l	90
5) Bromomethane	1.65	94	243	3.946	ug/l #	51
10) Methyl Iodide	2.51	142	182	4.470	ug/l #	42
11) Tert butyl alcohol	3.03	59	1082	1.296	ug/l	97
16) Acetone	2.45	43	2389	1.225	ug/l	91
17) Carbon Disulfide	2.57	76	535	1.315	ug/l #	1
27) cis-1,2-Dichloroethene	4.60	96	111770	32.260	ug/l	90
28) Bromochloromethane	5.03	49	95	Below Cal	#	21
31) Cyclohexane	5.66	56	5949	0.993	ug/l #	1
36) 1,1-Dichloropropene	5.66	75	21169	4.821	ug/l #	50
38) Carbon Tetrachloride	5.67	117	25307	6.798	ug/l #	16
44) Trichloroethene	7.21	130	17267	5.440	ug/l	94
60) Dibromochloromethane	9.34	129	19945	6.763	ug/l #	11
64) Tetrachloroethene	9.34	164	20517	7.289	ug/l	97
65) Chlorobenzene	10.13	112	1661	0.212	ug/l #	83
76) 1,2,3-Trichloropropane	11.13	75	89378	23.018	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.13	75	89378	59.093	ug/l #	11

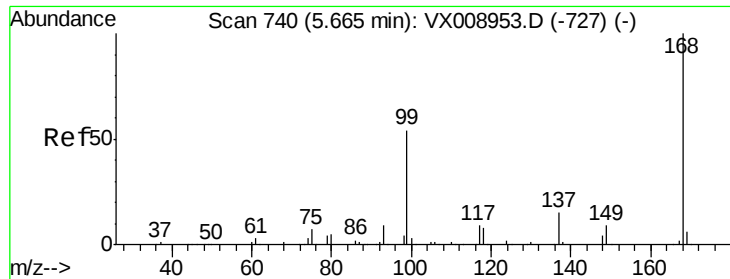
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VX008987.D

Acq: 16 Apr 2019 15:05

Instrument :

MSVOA_X

ClientSampleId :

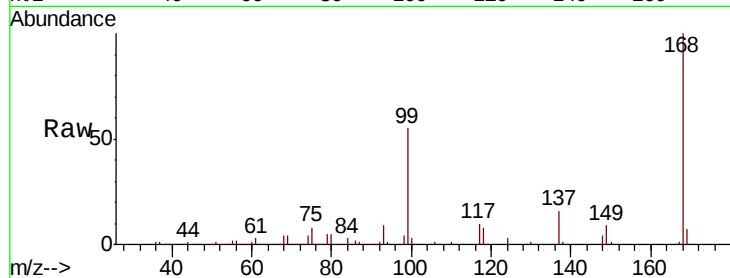
KY038PS027-190415

Tot Ion:168 Resp: 266787

Ion Ratio Lower Upper

168 100

99 55.4 43.0 64.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

100000

80000

60000

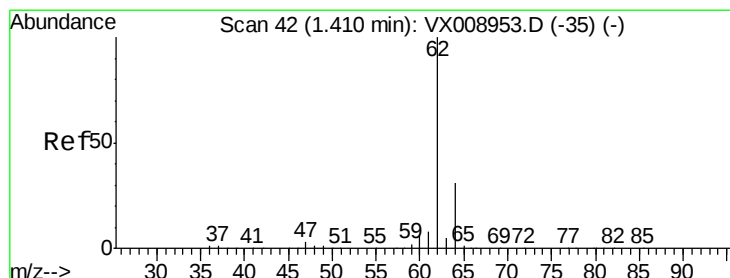
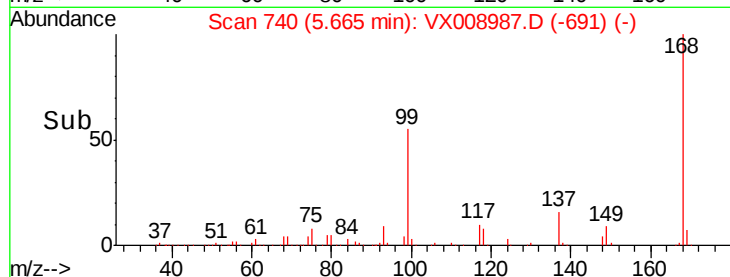
40000

20000

0

Time-->

5.50 5.60 5.70 5.80



#4

Vinyl Chloride

Concen: 0.574 ug/l

RT: 1.41 min Scan# 42

Delta R.T. -0.00 min

Lab File: VX008987.D

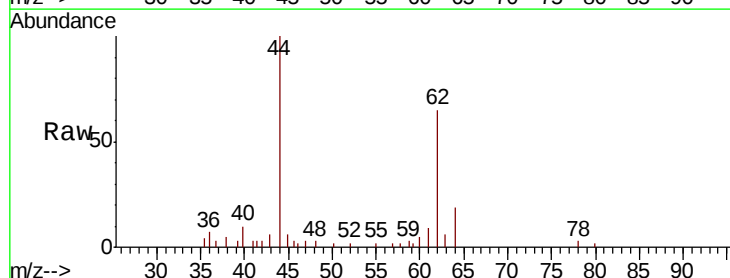
Acq: 16 Apr 2019 15:05

Tgt Ion: 62 Resp: 2106

Ion Ratio Lower Upper

62 100

64 25.5 25.0 37.4



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0

1.41

2000

1500

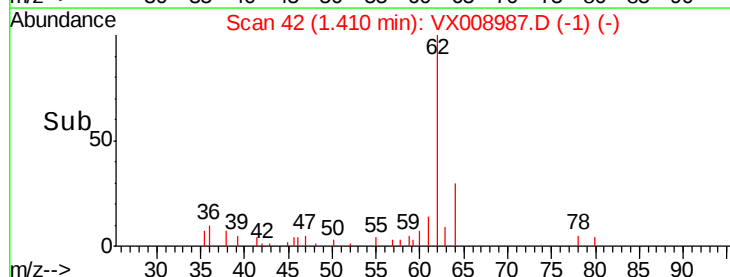
1000

500

0

Time-->

1.35 1.40 1.45





#5

Bromomethane

Concen: 3.946 ug/l

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX008987.D

Acq: 16 Apr 2019 15:05

Instrument :

MSVOA_X

ClientSampleId :

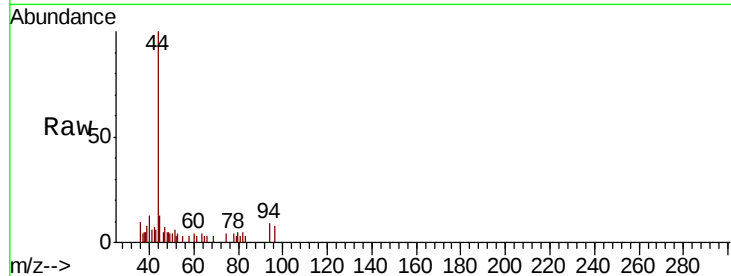
KY038PS027-190415

Tot Ion: 94 Resp: 243

Ion Ratio Lower Upper

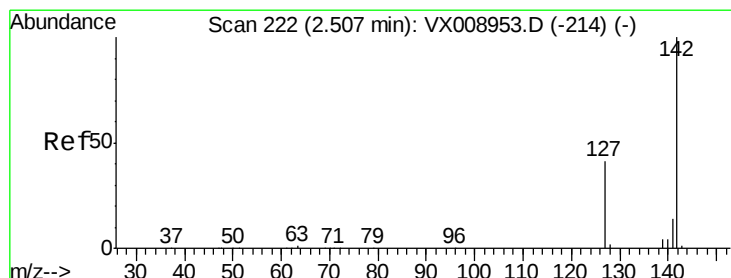
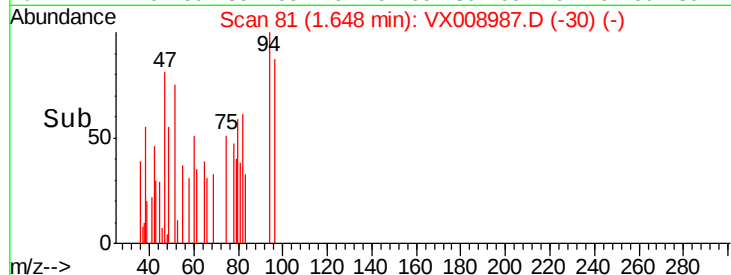
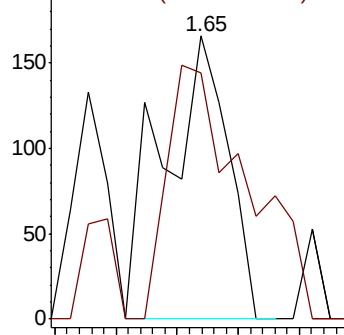
94 100

96 45.2 73.9 110.9#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#10

Methyl Iodide

Concen: 4.470 ug/l

RT: 2.51 min Scan# 223

Delta R.T. 0.01 min

Lab File: VX008987.D

Acq: 16 Apr 2019 15:05

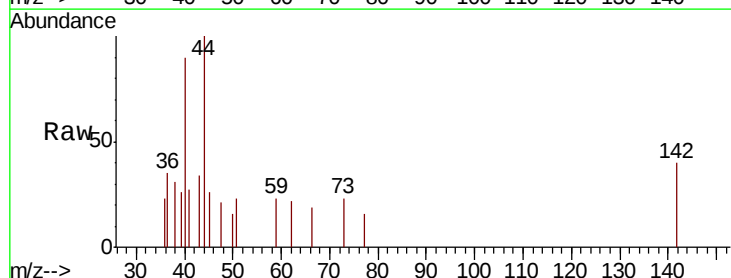
Tgt Ion: 142 Resp: 182

Ion Ratio Lower Upper

142 100

127 0.0 32.8 49.2#

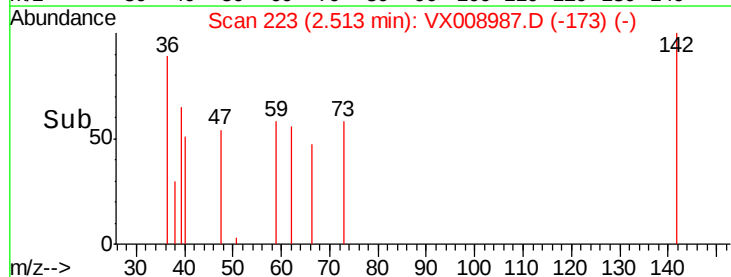
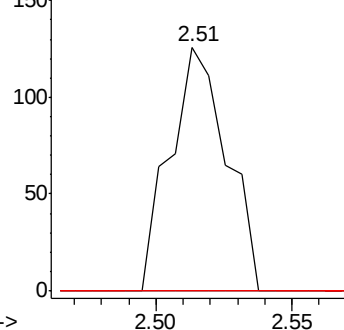
141 0.0 11.4 17.2#

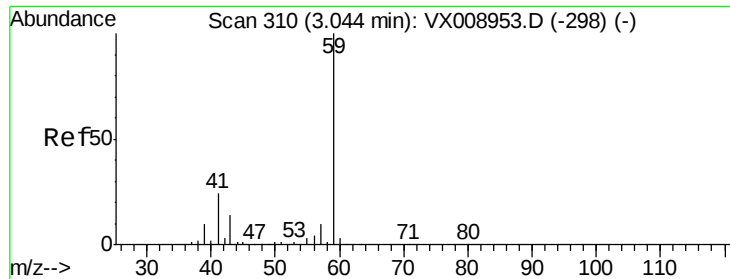


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

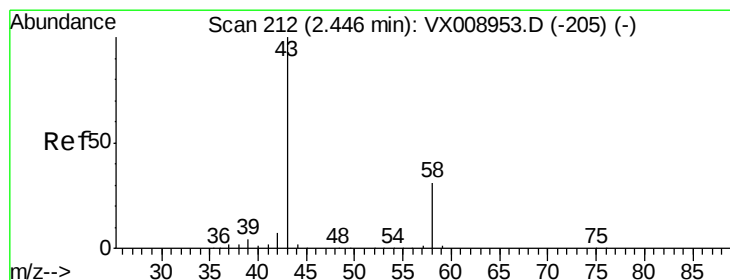
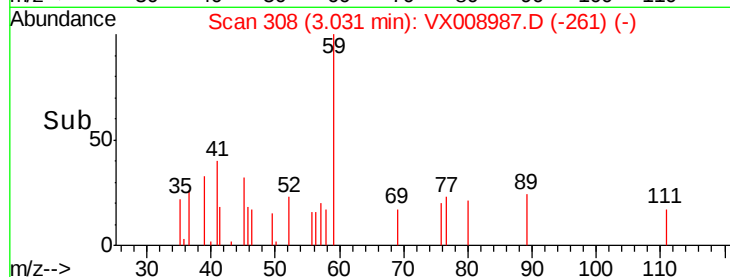
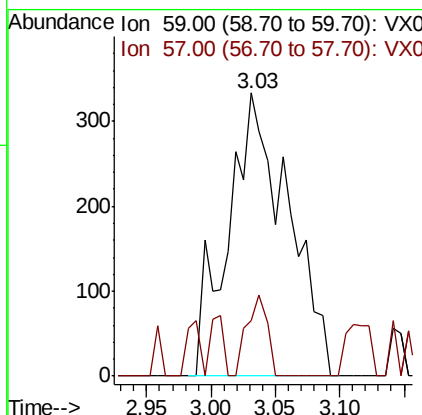
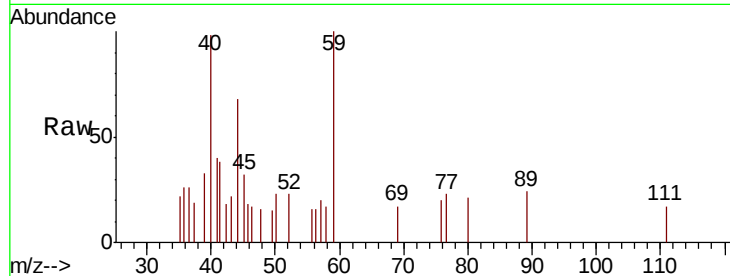




#11
Tert butyl alcohol
Concen: 1.296 ug/l
RT: 3.03 min Scan# 308
Delta R.T. -0.01 min
Lab File: VX008987.D
Acq: 16 Apr 2019 15:05

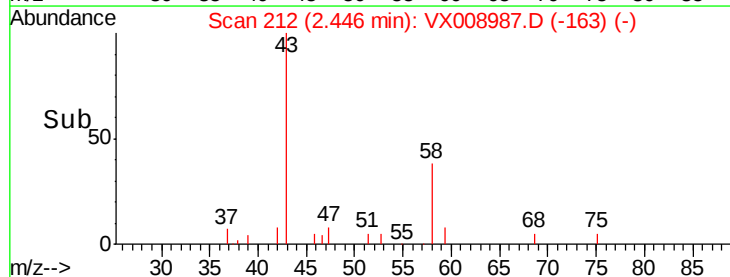
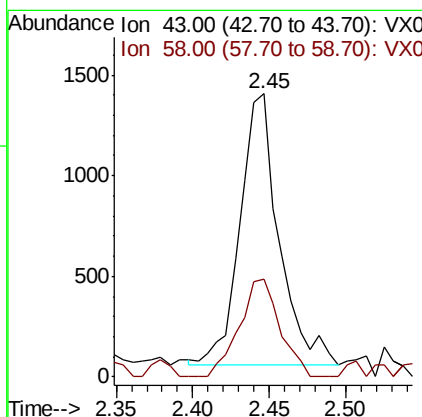
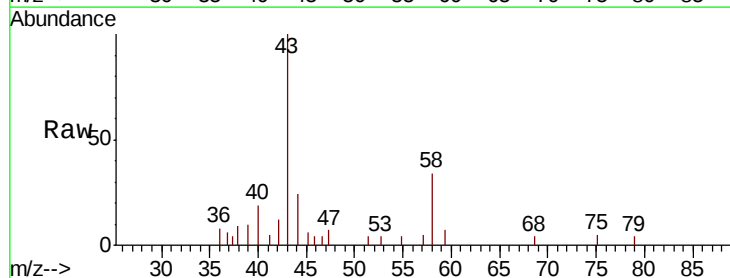
Instrument :
MSVOA_X
ClientSampleId :
KY038PS027-190415

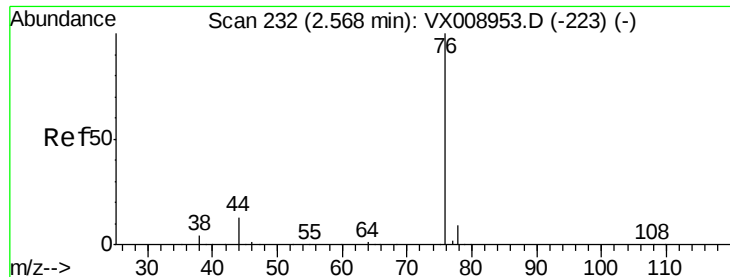
Tot Ion: 59 Resp: 1082
Ion Ratio Lower Upper
59 100
57 9.4 8.4 12.6



#16
Acetone
Concen: 1.225 ug/l
RT: 2.45 min Scan# 212
Delta R.T. -0.00 min
Lab File: VX008987.D
Acq: 16 Apr 2019 15:05

Tgt Ion: 43 Resp: 2389
Ion Ratio Lower Upper
43 100
58 35.9 24.8 37.2





#17

Carbon Disulfide

Concen: 1.315 ug/l

RT: 2.57 min Scan# 233

Delta R.T. 0.01 min

Lab File: VX008987.D

Acq: 16 Apr 2019 15:05

Instrument :

MSVOA_X

ClientSampleId :

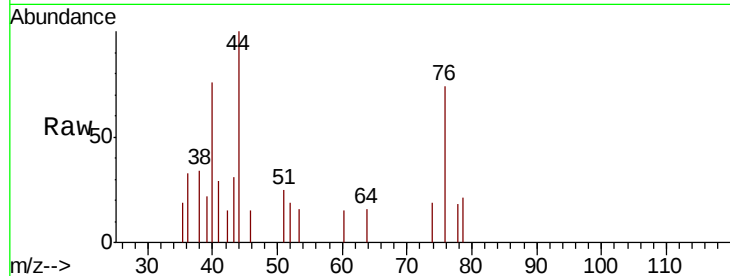
KY038PS027-190415

Tot Ion: 76 Resp: 535

Ion Ratio Lower Upper

76 100

78 52.3 7.2 10.8#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

2.57

250

200

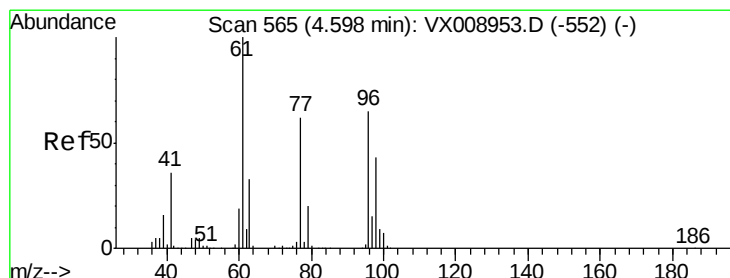
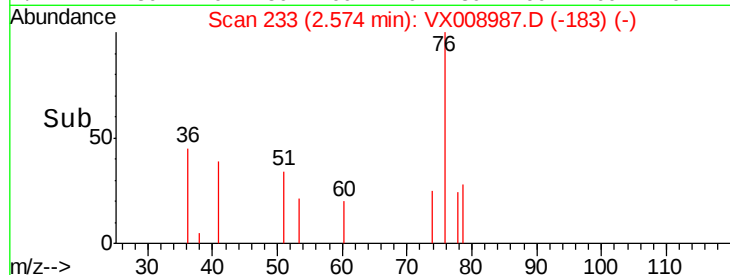
150

100

50

0

Time-->



#27

cis-1,2-Dichloroethene

Concen: 32.260 ug/l

RT: 4.60 min Scan# 565

Delta R.T. -0.00 min

Lab File: VX008987.D

Acq: 16 Apr 2019 15:05

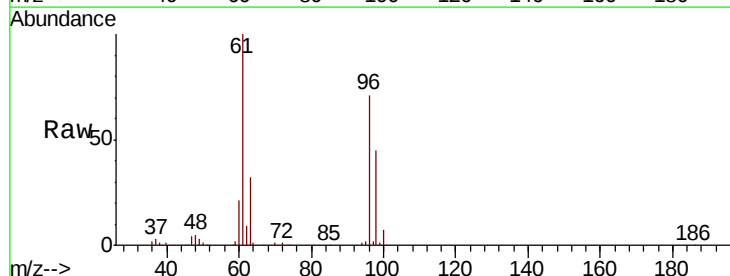
Tgt Ion: 96 Resp: 111770

Ion Ratio Lower Upper

96 100

61 143.2 0.0 322.0

98 64.0 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

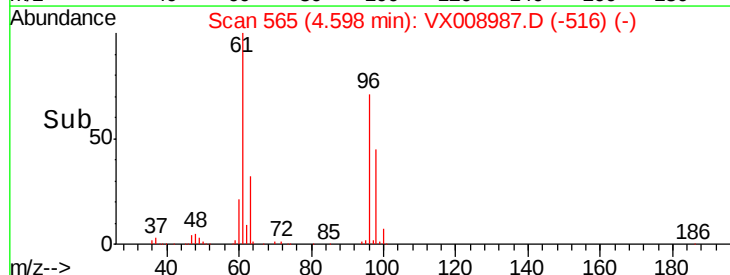
60000

40000

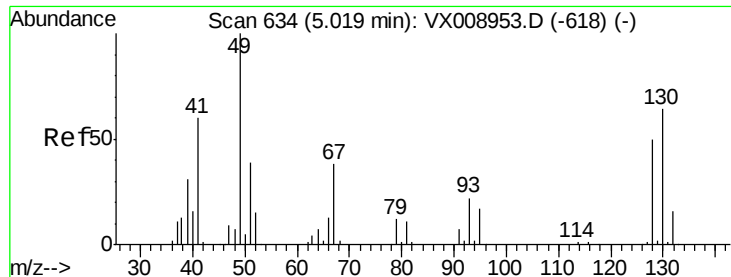
20000

0

Time-->



Time-->



#28

Bromochloromethane

Concen: Below Cal

RT: 5.03 min Scan# 635

Delta R.T. 0.01 min

Lab File: VX008987.D

Acq: 16 Apr 2019 15:05

Instrument :

MSVOA_X

ClientSampleId :

KY038PS027-190415

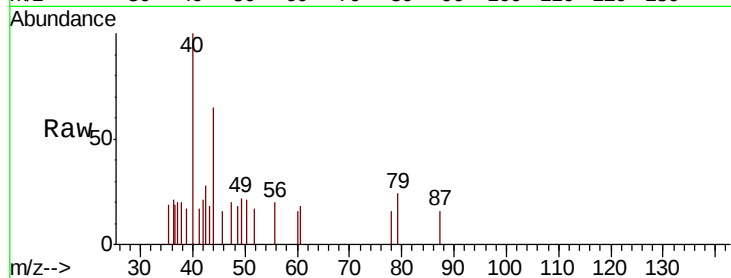
Tot Ion: 49 Resp: 95

Ion Ratio Lower Upper

49 100

129 0.0 0.0 3.6

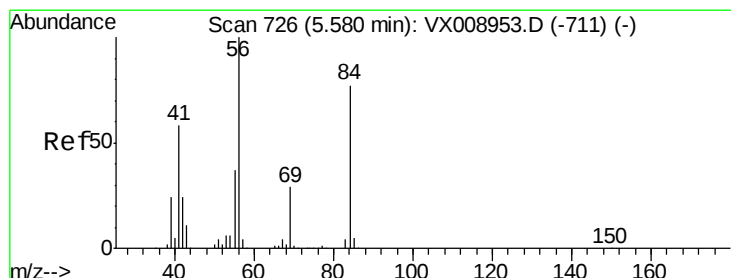
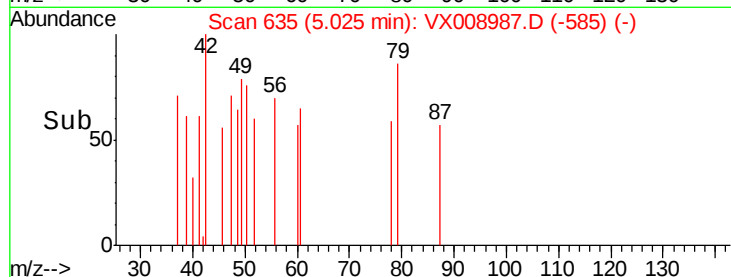
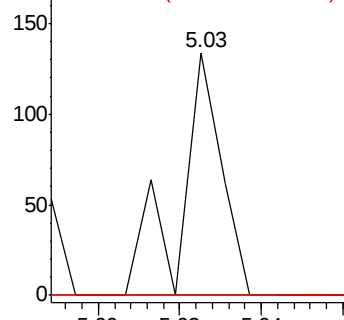
130 0.0 50.4 75.6#



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: 0.993 ug/l

RT: 5.66 min Scan# 739

Delta R.T. 0.08 min

Lab File: VX008987.D

Acq: 16 Apr 2019 15:05

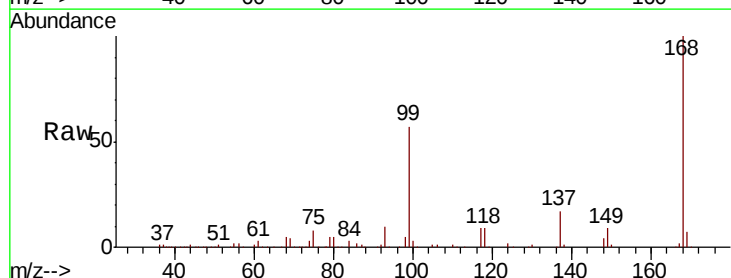
Tgt Ion: 56 Resp: 5949

Ion Ratio Lower Upper

56 100

69 171.7 23.3 34.9#

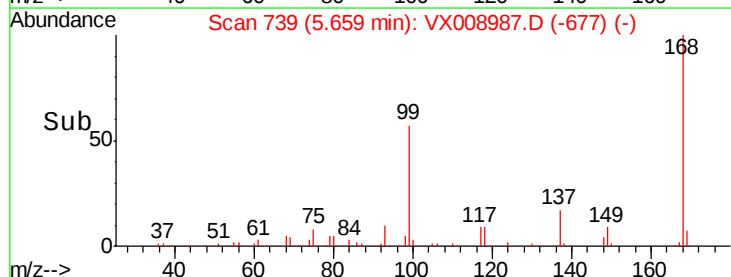
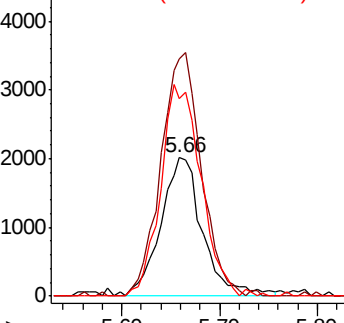
84 142.4 61.7 92.5#

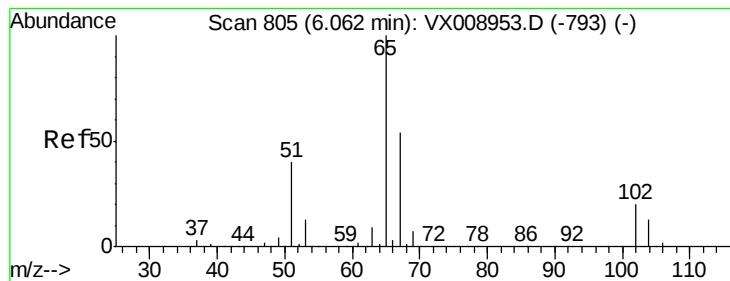


Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0





#33

1,2-Dichloroethane-d4

Concen: 45.890 ug/l

RT: 6.06 min Scan# 805

Delta R.T. -0.00 min

Lab File: VX008987.D

Acq: 16 Apr 2019 15:05

Instrument :

MSVOA_X

ClientSampleId :

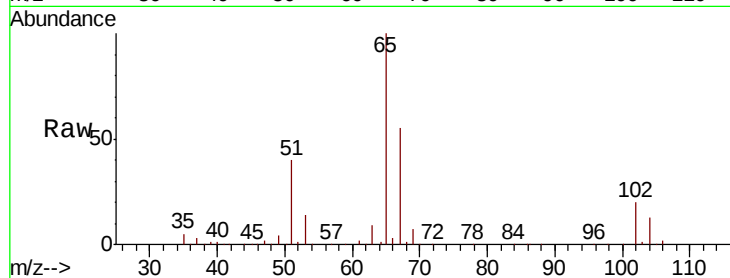
KY038PS027-190415

Tot Ion: 65 Resp: 172538

Ion Ratio Lower Upper

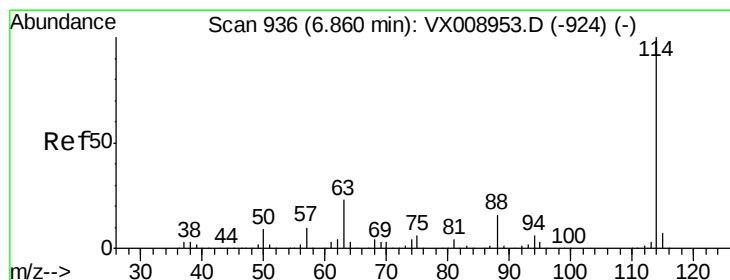
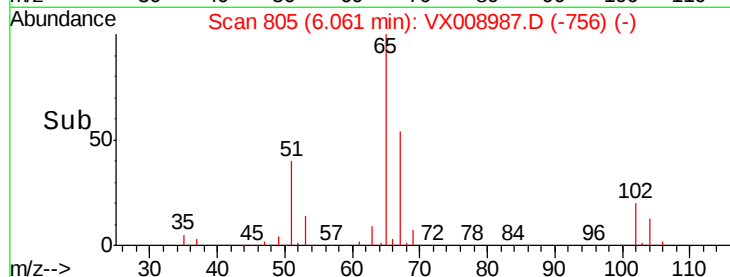
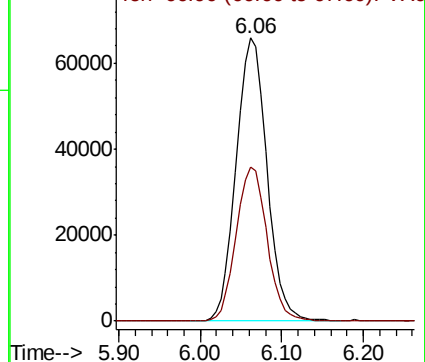
65 100

67 55.0 0.0 108.6



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. -0.00 min

Lab File: VX008987.D

Acq: 16 Apr 2019 15:05

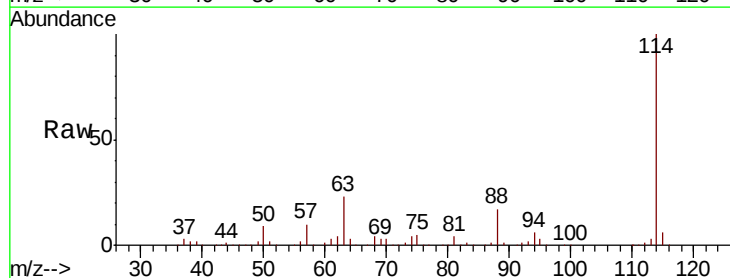
Tgt Ion: 114 Resp: 424601

Ion Ratio Lower Upper

114 100

63 23.0 0.0 46.0

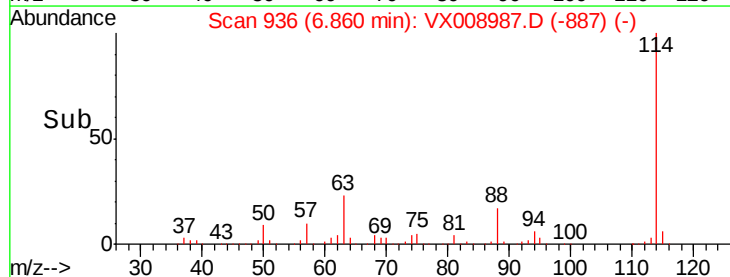
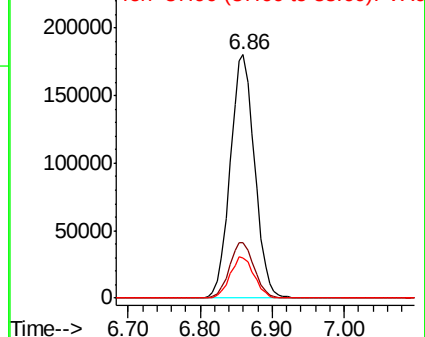
88 16.7 0.0 32.6

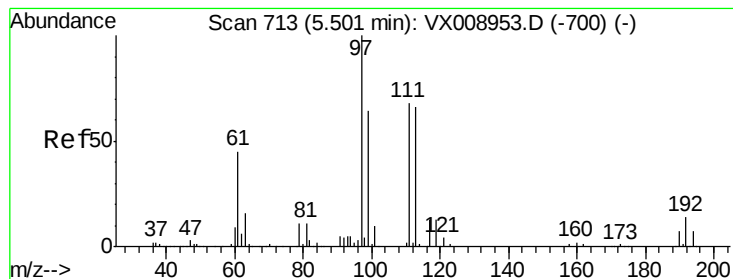


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0





#35

Dibromofluoromethane

Concen: 46.398 ug/l

RT: 5.50 min Scan# 713

Delta R.T. -0.00 min

Lab File: VX008987.D

Acq: 16 Apr 2019 15:05

Instrument :

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ClientSampleId :

KY038PS027-190415

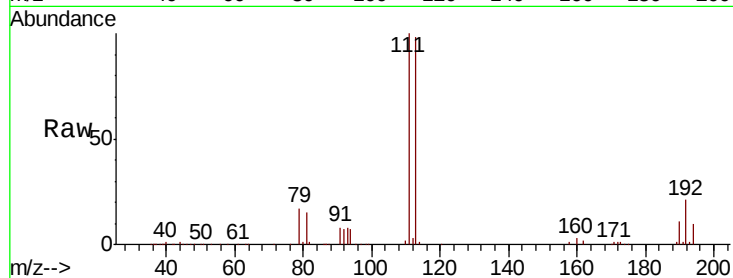
Tot Ion:113 Resp: 126434

Ion Ratio Lower Upper

113 100

111 103.4 82.9 124.3

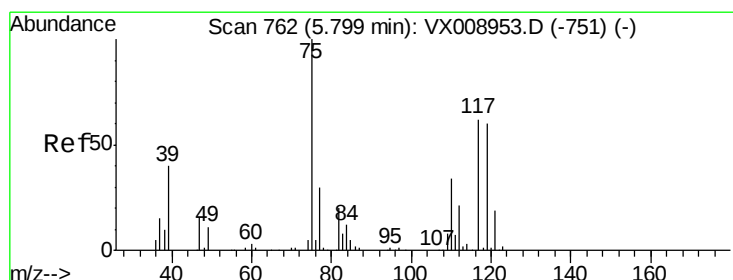
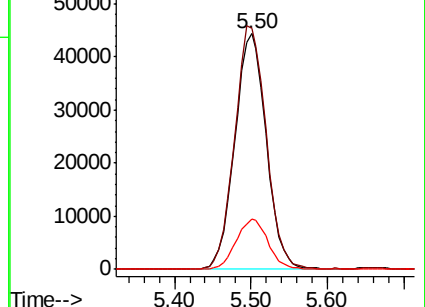
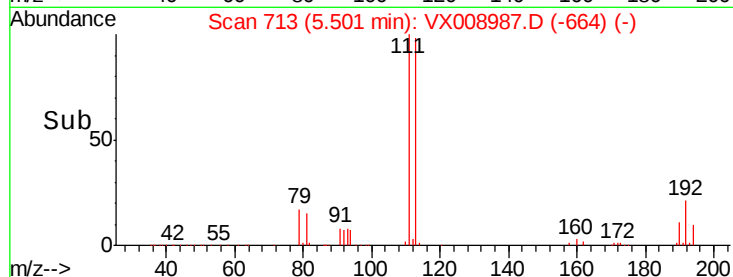
192 21.4 17.4 26.0



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: 4.821 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX008987.D

Acq: 16 Apr 2019 15:05

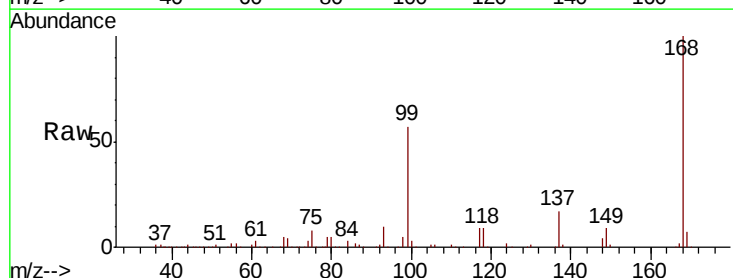
Tgt Ion: 75 Resp: 21169

Ion Ratio Lower Upper

75 100

110 8.7 16.9 50.7#

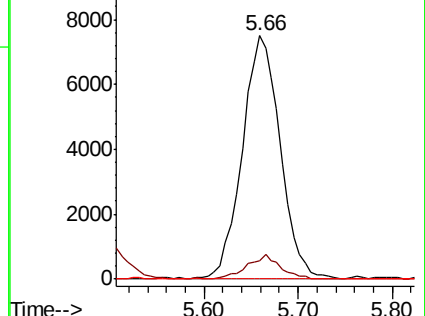
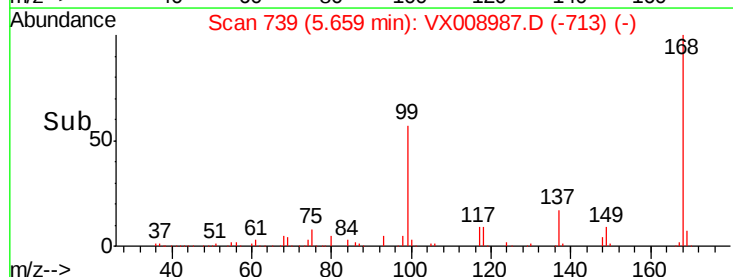
77 0.0 25.0 37.4#

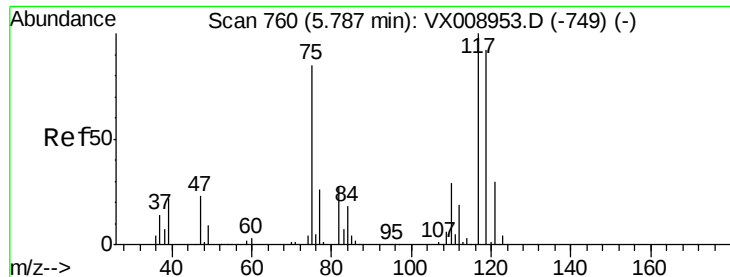


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.798 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX008987.D

Acq: 16 Apr 2019 15:05

Instrument :

MSVOA_X

ClientSampleId :

KY038PS027-190415

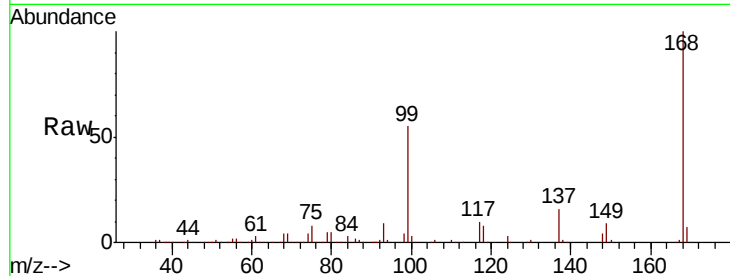
Tot Ion:117 Resp: 25307

Ion Ratio Lower Upper

117 100

119 3.6 73.8 110.8#

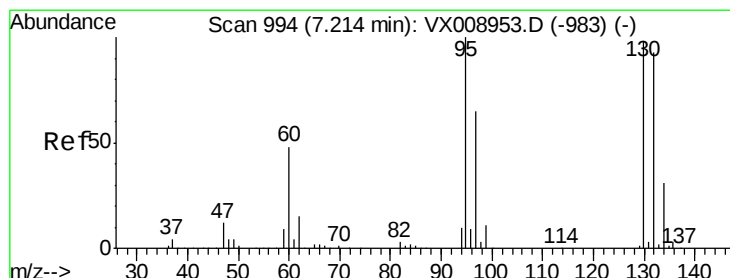
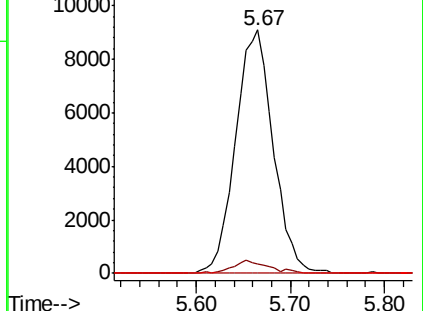
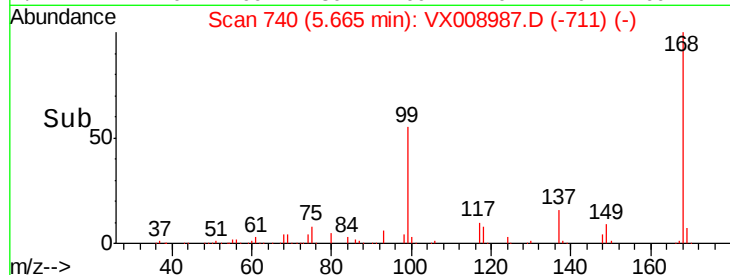
121 0.0 23.6 35.4#



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: 5.440 ug/l

RT: 7.21 min Scan# 994

Delta R.T. -0.00 min

Lab File: VX008987.D

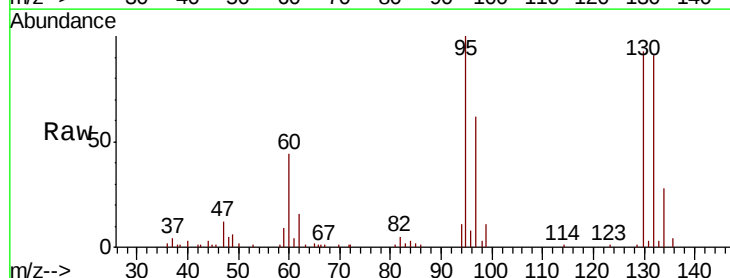
Acq: 16 Apr 2019 15:05

Tgt Ion:130 Resp: 17267

Ion Ratio Lower Upper

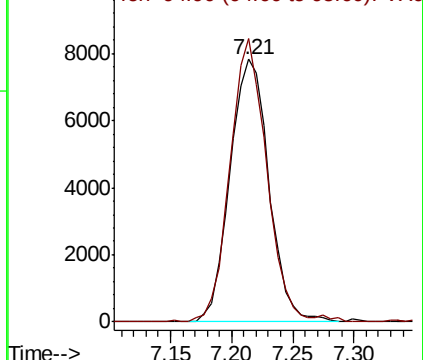
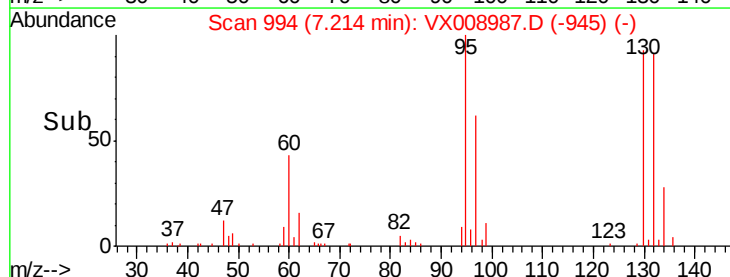
130 100

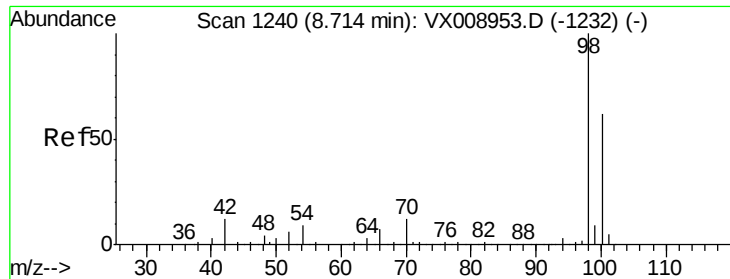
95 107.9 0.0 203.2



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0





#50

Toluene-d8

Concen: 48.691 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX008987.D

Acq: 16 Apr 2019 15:05

Instrument :

MSVOA_X

ClientSampleId :

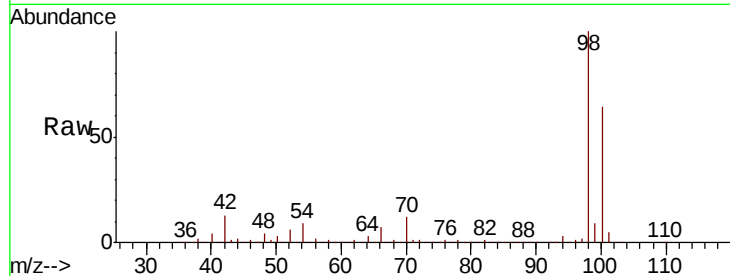
KY038PS027-190415

Tot Ion: 98 Resp: 529146

Ion Ratio Lower Upper

98 100

100 64.2 51.4 77.2



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V

8.71

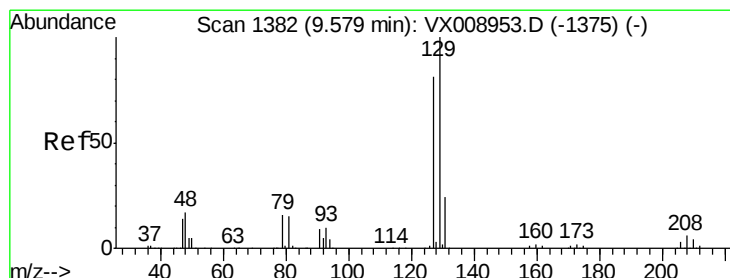
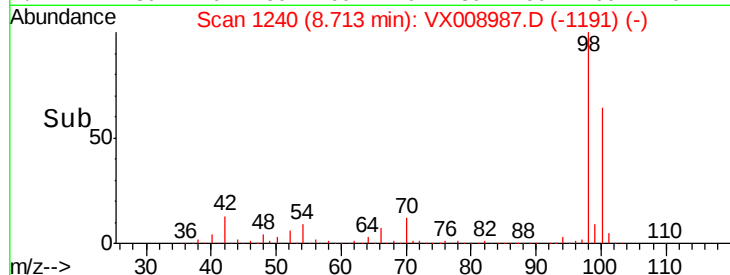
300000

200000

100000

0

Time--> 8.60 8.70 8.80



#60

Dibromochloromethane

Concen: 6.763 ug/l

RT: 9.34 min Scan# 1342

Delta R.T. -0.24 min

Lab File: VX008987.D

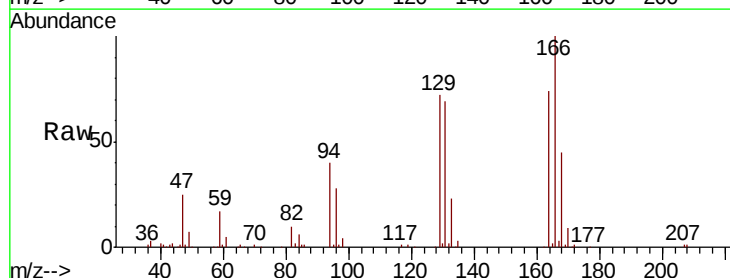
Acq: 16 Apr 2019 15:05

Tgt Ion:129 Resp: 19945

Ion Ratio Lower Upper

129 100

127 0.4 39.1 117.2#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V

9.34

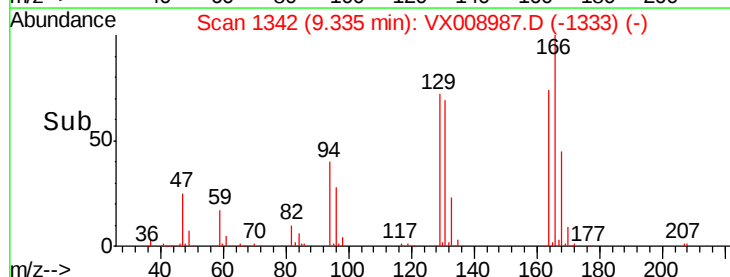
15000

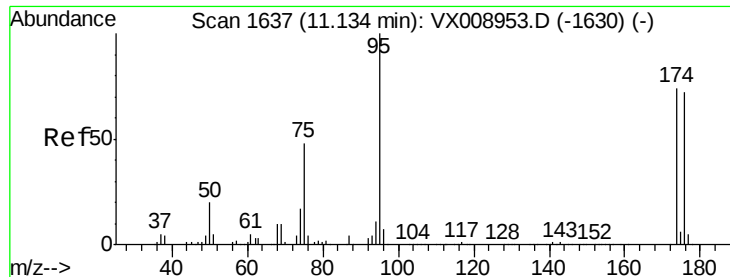
10000

5000

0

Time--> 9.25 9.30 9.35 9.40





#62

4-Bromofluorobenzene

Concen: 46.022 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX008987.D

Acq: 16 Apr 2019 15:05

Instrument :

MSVOA_X

ClientSampleId :

KY038PS027-190415

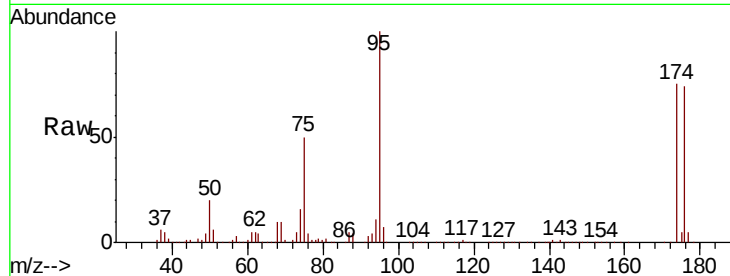
Tot Ion: 95 Resp: 176551

Ion Ratio Lower Upper

95 100

174 80.2 0.0 159.6

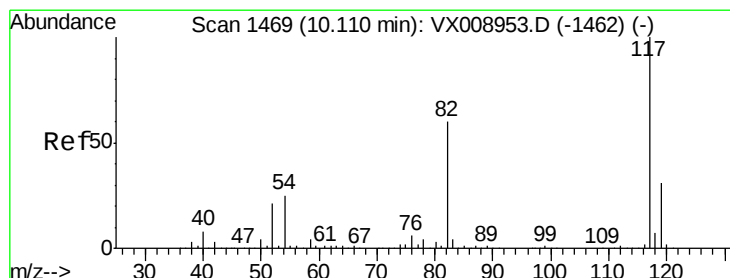
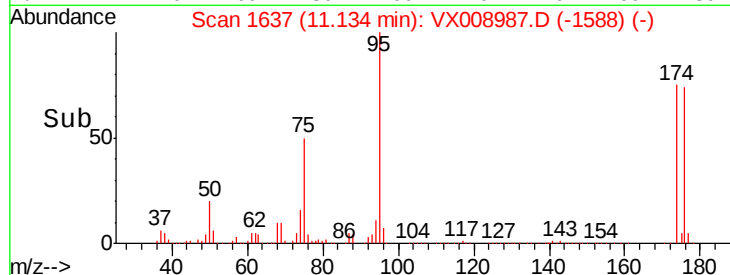
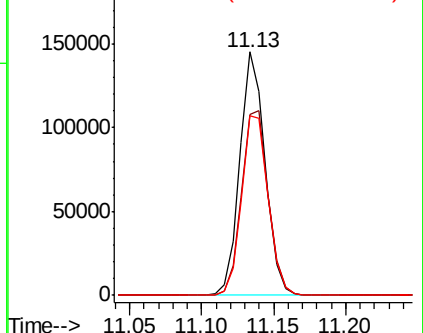
176 77.8 0.0 154.8



Abundance Ion 94.90 (94.60 to 95.60): VX008987.D (-1588) (-)

Ion 173.80 (173.50 to 174.50): VX008987.D (-1588) (-)

Ion 175.80 (175.50 to 176.50): VX008987.D (-1588) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. -0.00 min

Lab File: VX008987.D

Acq: 16 Apr 2019 15:05

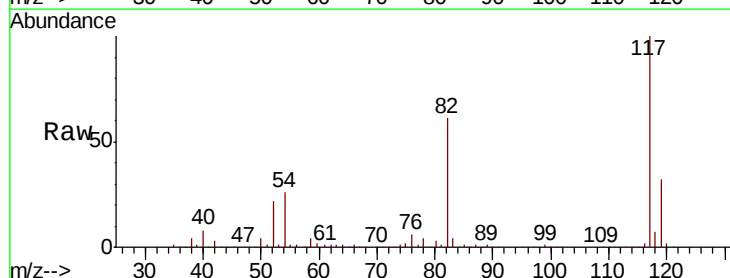
Tgt Ion: 117 Resp: 370517

Ion Ratio Lower Upper

117 100

82 61.4 48.2 72.4

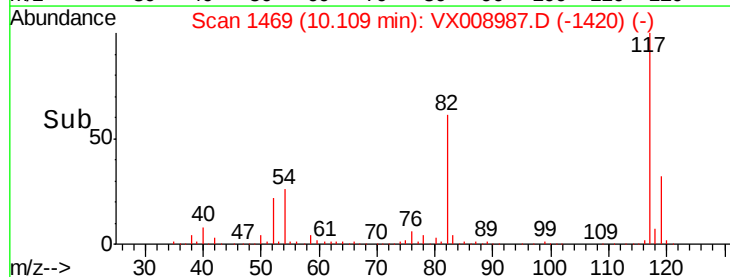
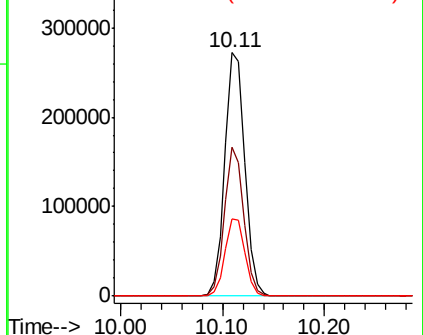
119 31.9 25.0 37.6

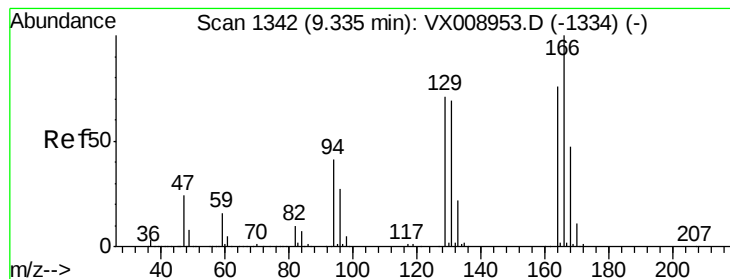


Abundance Ion 116.90 (116.60 to 117.60): VX008987.D (-1420) (-)

Ion 82.00 (81.70 to 82.70): VX008987.D (-1420) (-)

Ion 118.90 (118.60 to 119.60): VX008987.D (-1420) (-)





#64

Tetrachloroethene

Concen: 7.289 ug/l

RT: 9.34 min Scan# 1342

Delta R.T. -0.00 min

Lab File: VX008987.D

Acq: 16 Apr 2019 15:05

Instrument :

MSVOA_X

ClientSampleId :

KY038PS027-190415

Tot Ion:164 Resp: 20517

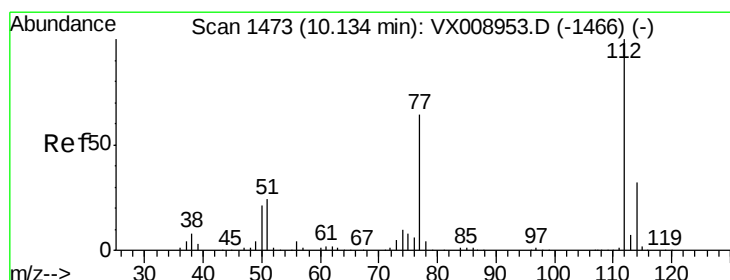
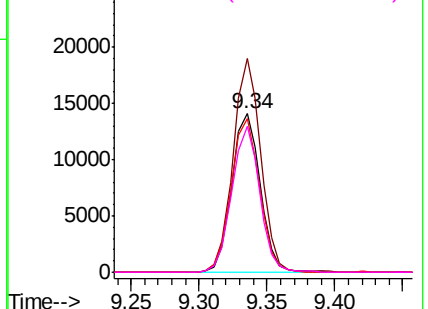
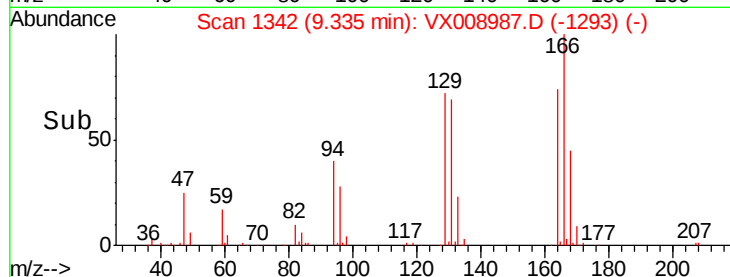
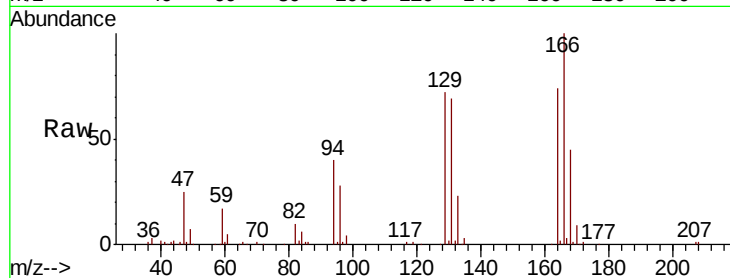
Ion Ratio Lower Upper

164 100

166 134.6 105.0 157.4

129 96.7 74.2 111.4

131 92.2 72.2 108.2



#65

Chlorobenzene

Concen: 0.212 ug/l

RT: 10.13 min Scan# 1473

Delta R.T. -0.00 min

Lab File: VX008987.D

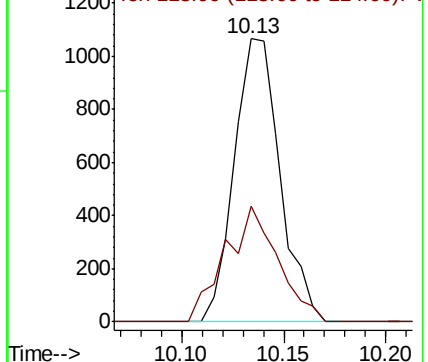
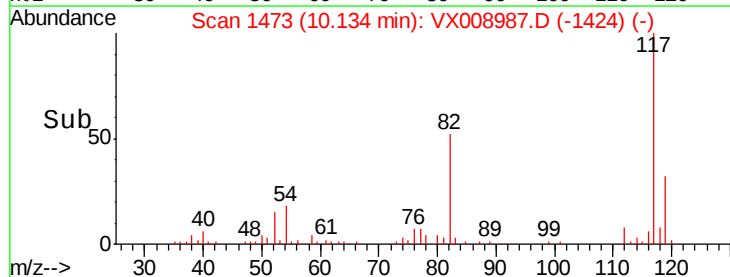
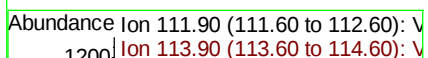
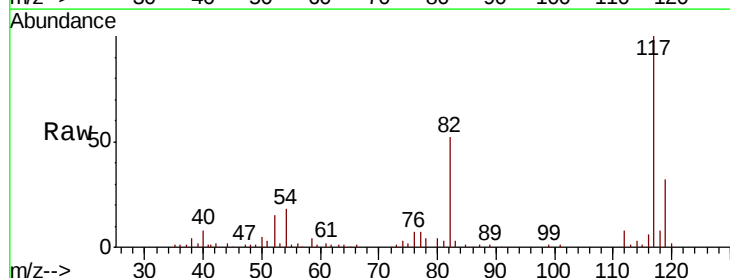
Acq: 16 Apr 2019 15:05

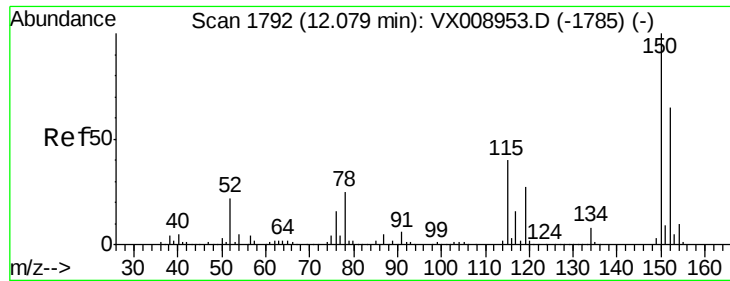
Tgt Ion:112 Resp: 1661

Ion Ratio Lower Upper

112 100

114 41.0 25.4 38.0#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX008987.D

Acq: 16 Apr 2019 15:05

Instrument :

MSVOA_X

ClientSampleId :

KY038PS027-190415

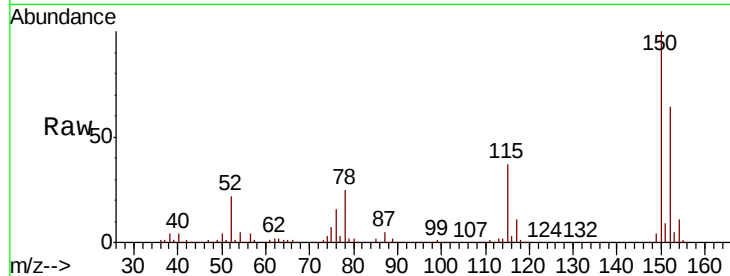
Tot Ion:152 Resp: 159023

Ion Ratio Lower Upper

152 100

115 58.9 41.4 124.2

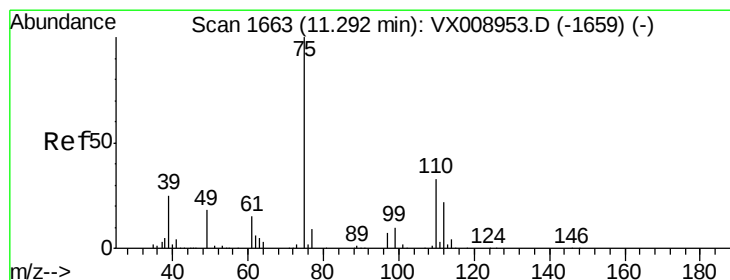
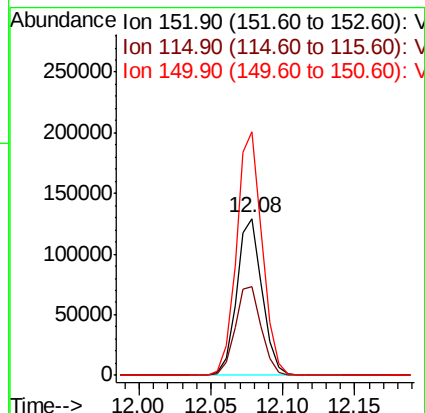
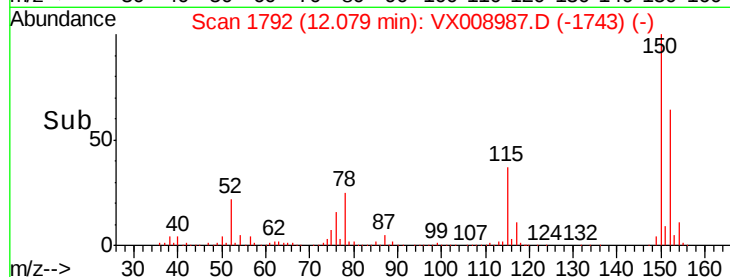
150 156.9 0.0 349.8



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: 23.018 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX008987.D

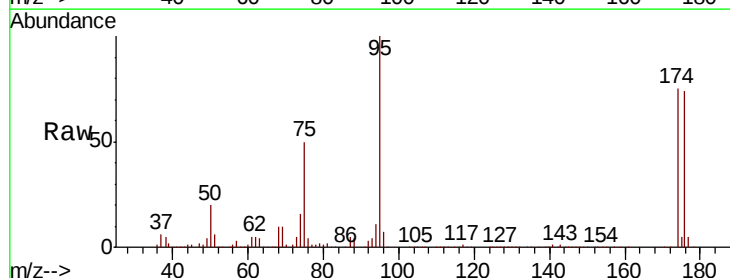
Acq: 16 Apr 2019 15:05

Tgt Ion: 75 Resp: 89378

Ion Ratio Lower Upper

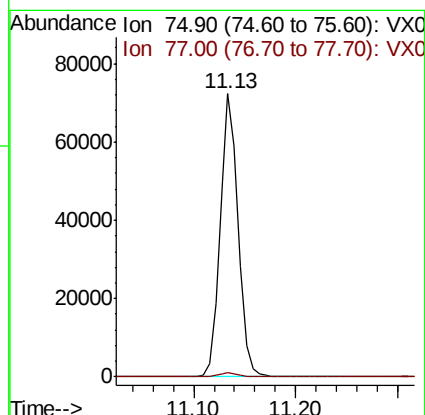
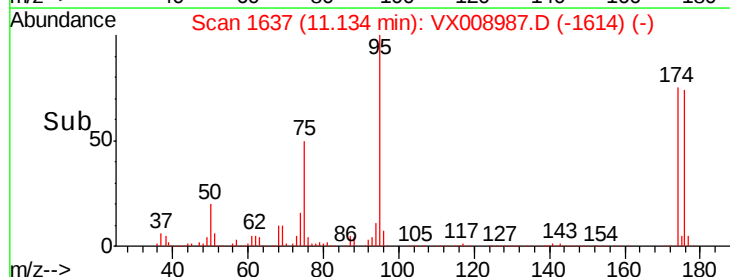
75 100

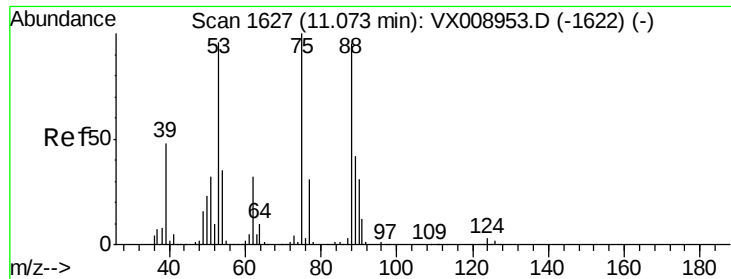
77 1.3 22.7 68.0#



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: 59.093 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX008987.D

Acq: 16 Apr 2019 15:05

Instrument :

MSVOA_X

ClientSampleId :

KY038PS027-190415

Tot Ion: 75 Resp: 89378

Ion Ratio Lower Upper

75 100

53 0.1 78.2 117.4#

89 0.1 36.0 54.0#

