

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX042519\
 Data File : VX009168.D
 Acq On : 25 Apr 2019 17:29
 Operator : JC/SP
 Sample : K2566-03
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 S37-0017

Quant Time: Apr 26 04:40:38 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	209146	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	334475	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	292577	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	125119	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	137410	46.62	ug/l	0.00
Spiked Amount			Recovery	=	93.24%	
35) Dibromofluoromethane	5.50	113	102208	47.61	ug/l	0.00
Spiked Amount			Recovery	=	95.22%	
50) Toluene-d8	8.71	98	418655	48.90	ug/l	0.00
Spiked Amount			Recovery	=	97.80%	
62) 4-Bromofluorobenzene	11.13	95	140530	46.50	ug/l	0.00
Spiked Amount			Recovery	=	93.00%	

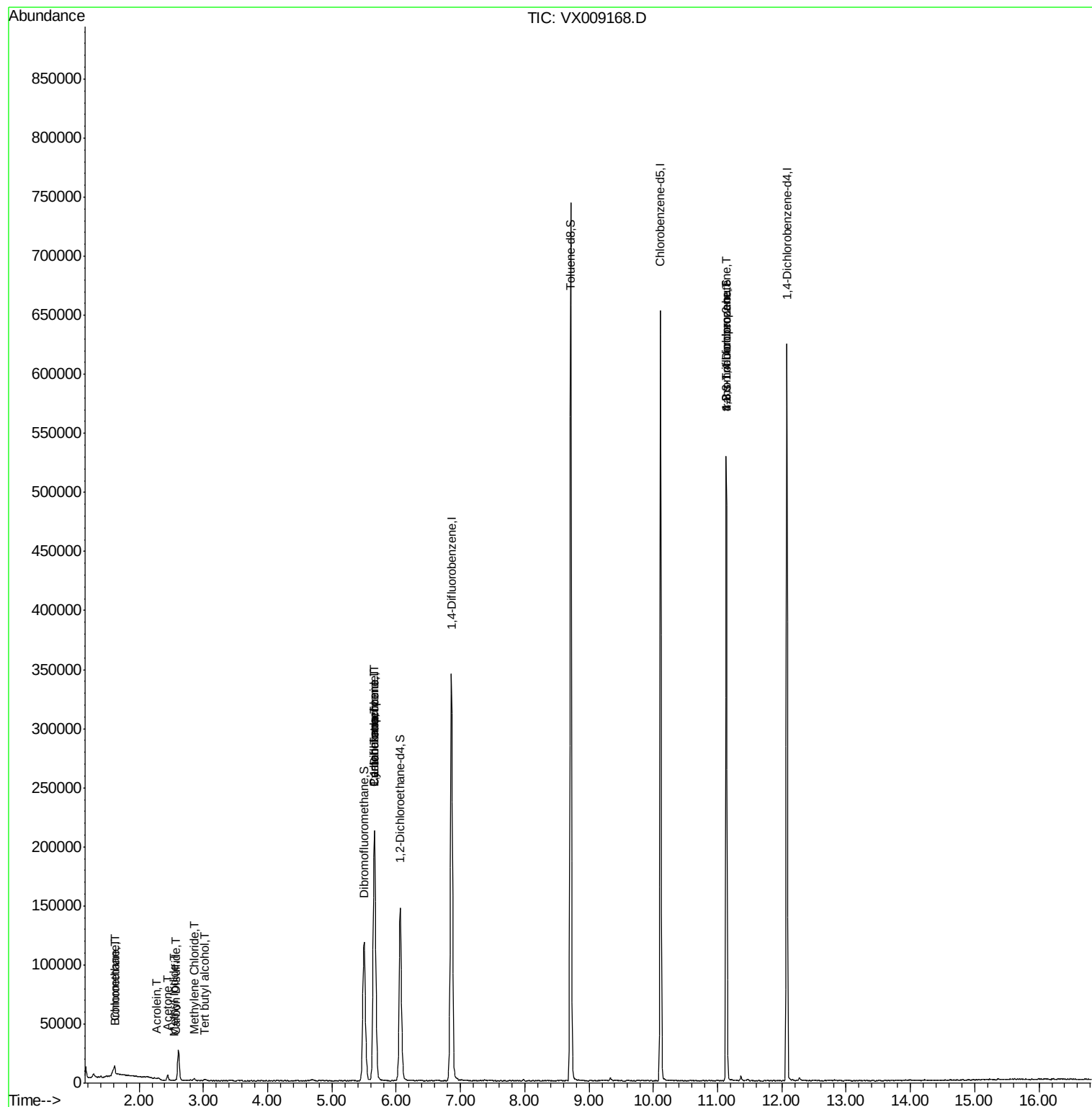
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.64	94	325	4.015	ug/l #	71
6) Chloroethane	1.62	64	6948	4.105	ug/l #	53
10) Methyl Iodide	2.53	142	41	4.430	ug/l #	42
11) Tert butyl alcohol	3.03	59	1000	1.528	ug/l #	77
13) Acrolein	2.28	56	179	0.317	ug/l #	81
16) Acetone	2.44	43	4784	3.130	ug/l	95
17) Carbon Disulfide	2.57	76	1001	1.401	ug/l #	75
20) Methylene Chloride	2.86	84	659	0.252	ug/l	85
28) Bromochloromethane	5.04	49	50	Below Cal	#	21
31) Cyclohexane	5.67	56	4557	0.971	ug/l #	1
36) 1,1-Dichloropropene	5.66	75	16290	4.709	ug/l #	50
38) Carbon Tetrachloride	5.66	117	19386	6.611	ug/l #	17
76) 1,2,3-Trichloropropane	11.13	75	70764	23.162	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.13	75	70764	59.464	ug/l #	11

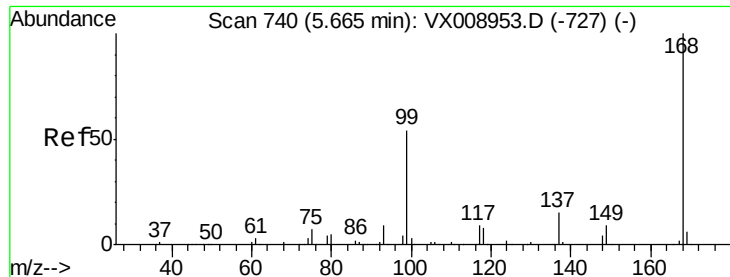
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VX009168.D

Acq: 25 Apr 2019 17:29

Instrument :

MSVOA_X

ClientSampleId :

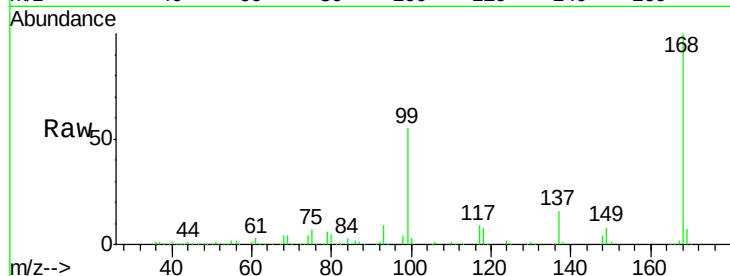
S37-0017

Tot Ion:168 Resp: 209146

Ion Ratio Lower Upper

168 100

99 54.4 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

80000

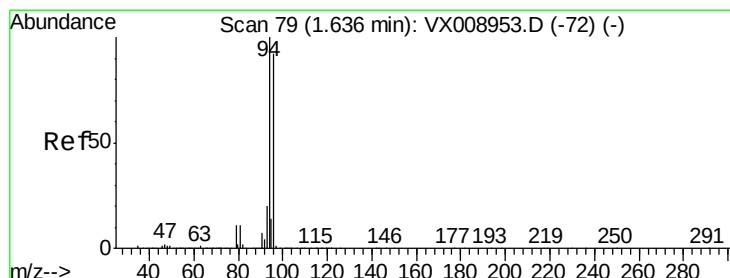
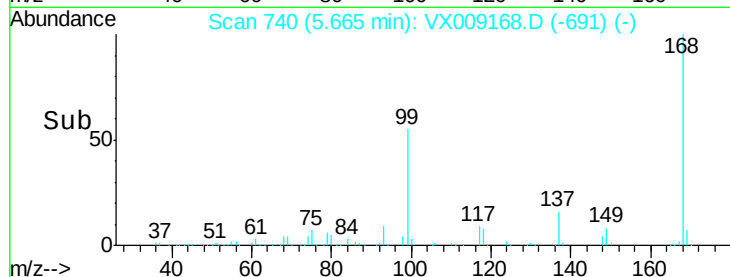
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: 4.015 ug/l

RT: 1.64 min Scan# 79

Delta R.T. 0.00 min

Lab File: VX009168.D

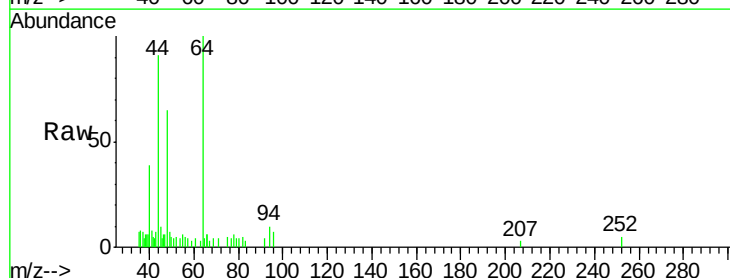
Acq: 25 Apr 2019 17:29

Tgt Ion: 94 Resp: 325

Ion Ratio Lower Upper

94 100

96 64.9 73.9 110.9#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.64

200

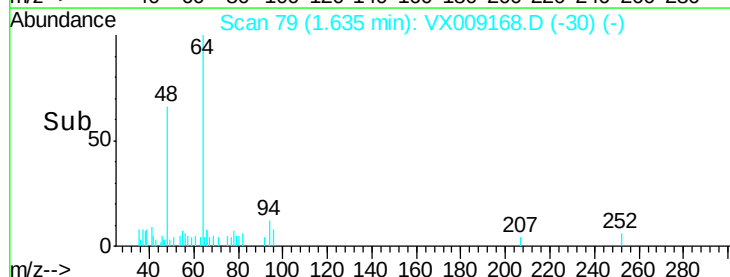
150

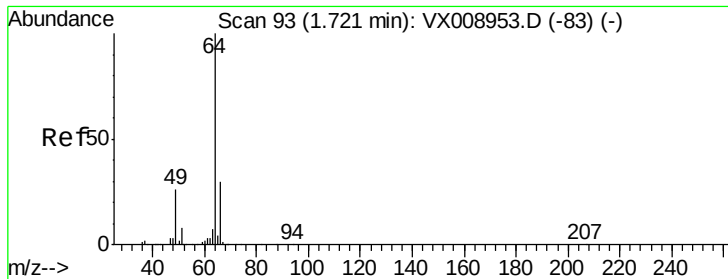
100

50

0

Time--> 1.60 1.65 1.70





#6

Chloroethane

Concen: 4.105 ug/l

RT: 1.62 min Scan# 77

Delta R.T. -0.10 min

Lab File: VX009168.D

Acq: 25 Apr 2019 17:29

Instrument :

MSVOA_X

ClientSampled :

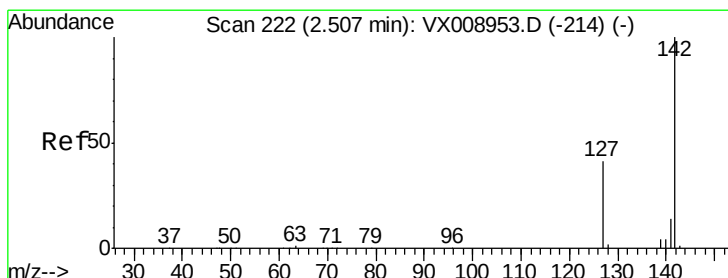
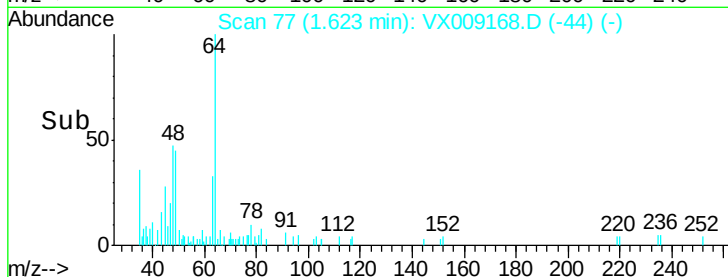
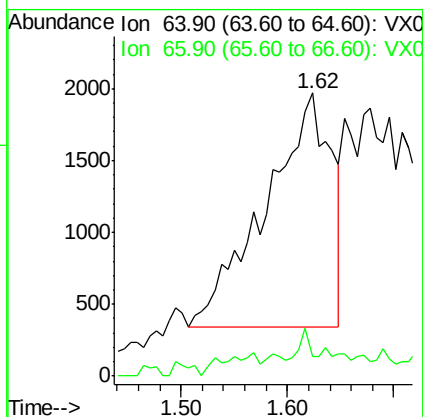
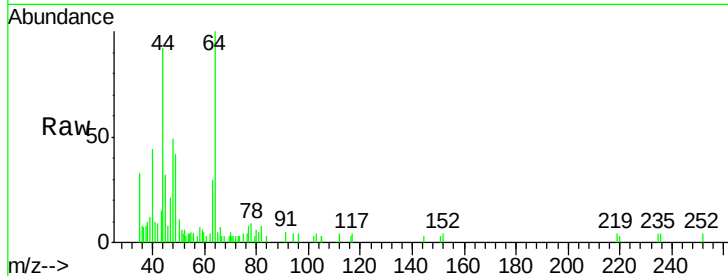
S37-0017

Tot Ion: 64 Resp: 6948

Ion Ratio Lower Upper

64 100

66 4.9 24.2 36.2#



#10

Methyl Iodide

Concen: 4.430 ug/l

RT: 2.53 min Scan# 226

Delta R.T. 0.02 min

Lab File: VX009168.D

Acq: 25 Apr 2019 17:29

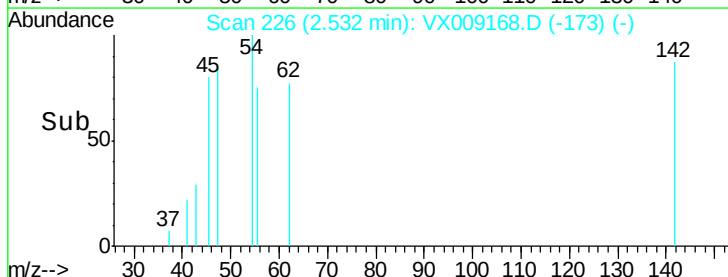
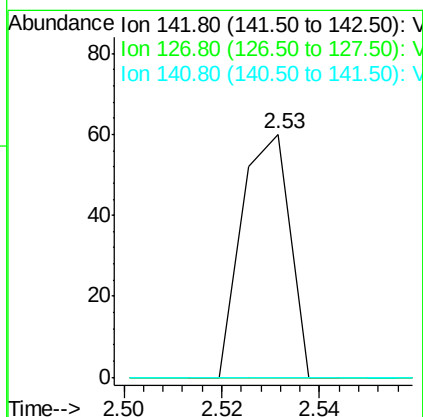
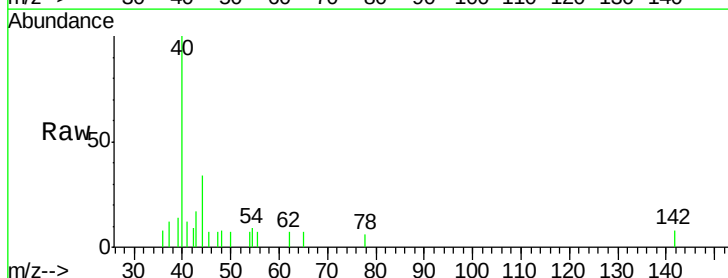
Tgt Ion: 142 Resp: 41

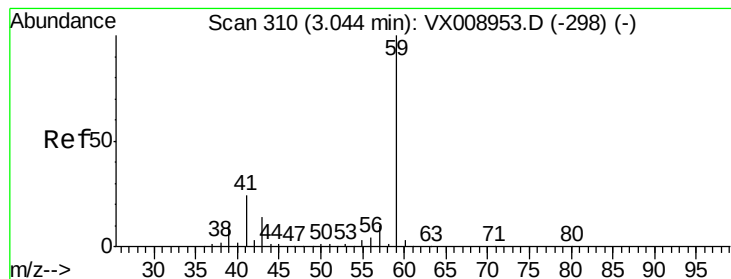
Ion Ratio Lower Upper

142 100

127 0.0 32.8 49.2#

141 0.0 11.4 17.2#



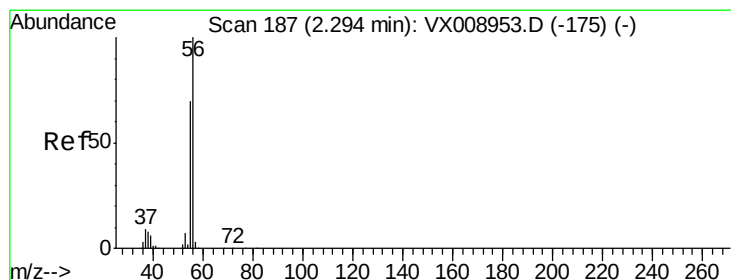
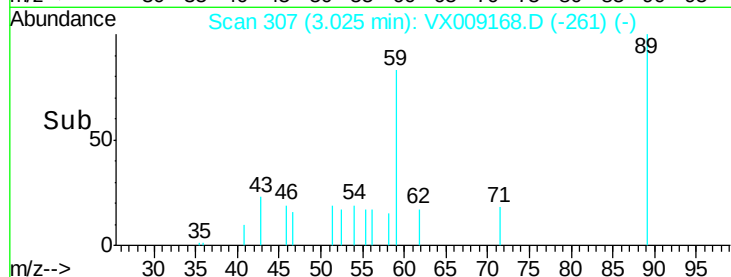
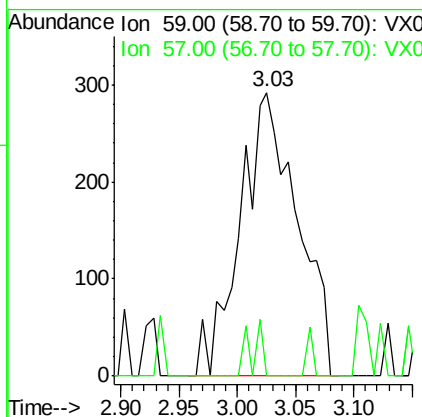
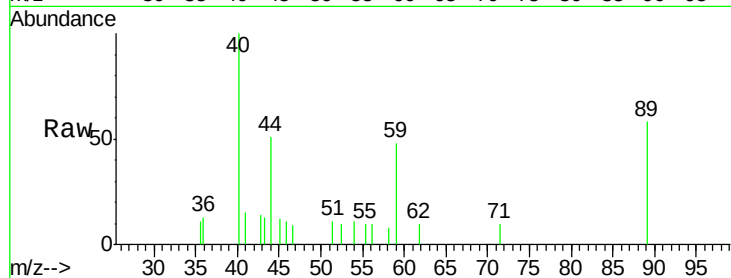


#11

Tert butyl alcohol
 Concen: 1.528 ug/l
 RT: 3.03 min Scan# 307
 Delta R.T. -0.02 min
 Lab File: VX009168.D
 Acq: 25 Apr 2019 17:29

Instrument :
 MSVOA_X
 ClientSampleId :
 S37-0017

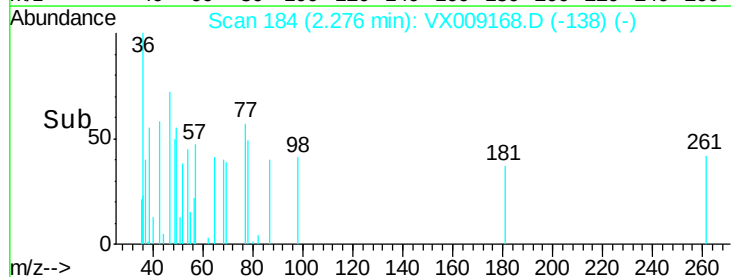
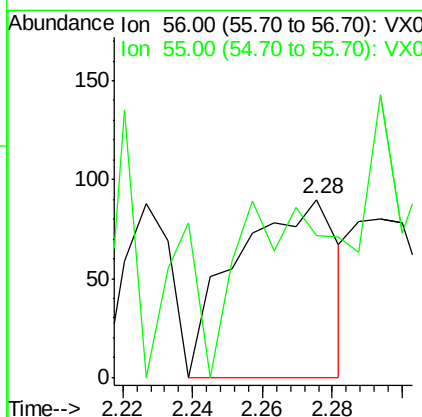
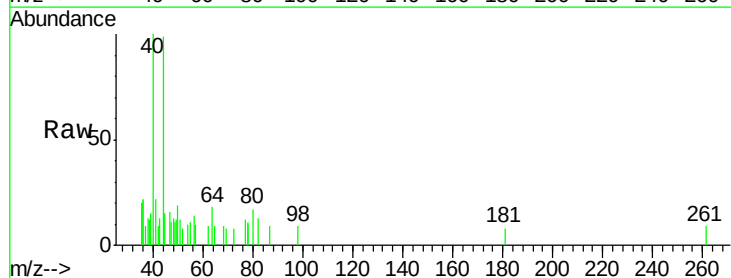
Tot Ion: 59 Resp: 1000
 Ion Ratio Lower Upper
 59 100
 57 1.9 8.4 12.6#

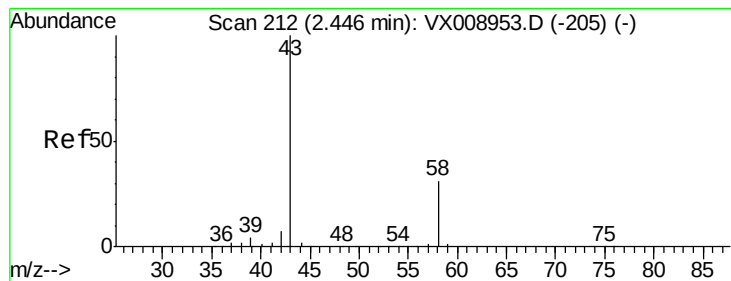


#13

Acrolein
 Concen: 0.317 ug/l
 RT: 2.28 min Scan# 184
 Delta R.T. -0.02 min
 Lab File: VX009168.D
 Acq: 25 Apr 2019 17:29

Tgt Ion: 56 Resp: 179
 Ion Ratio Lower Upper
 56 100
 55 86.0 56.6 84.8#





#16

Acetone

Concen: 3.130 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.01 min

Lab File: VX009168.D

Acq: 25 Apr 2019 17:29

Instrument :

MSVOA_X

ClientSampleId :

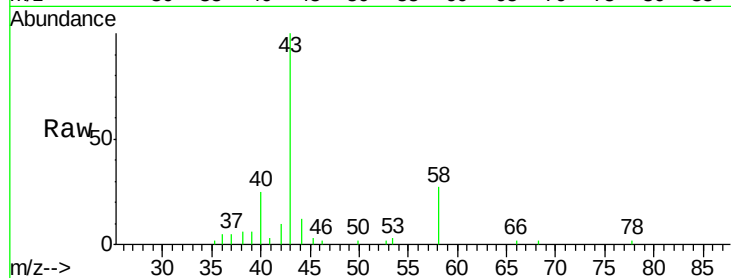
S37-0017

Tot Ion: 43 Resp: 4784

Ion Ratio Lower Upper

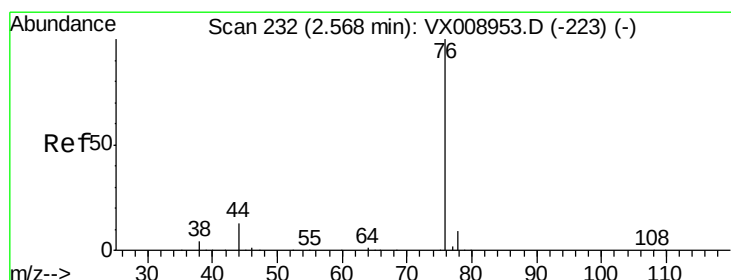
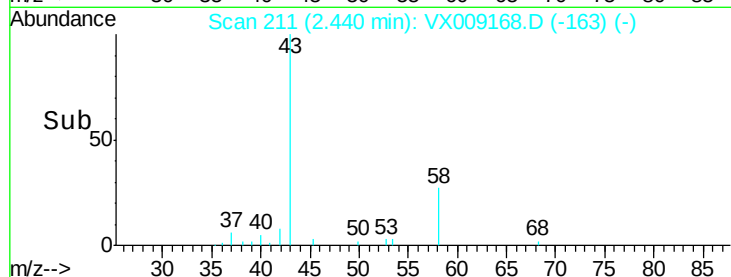
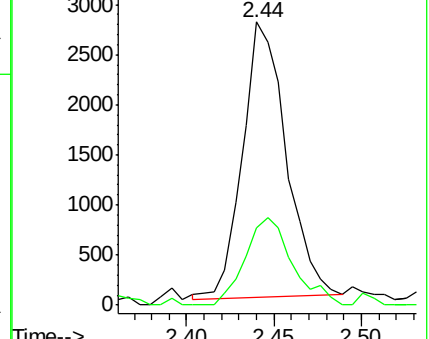
43 100

58 28.5 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: 1.401 ug/l

RT: 2.57 min Scan# 232

Delta R.T. 0.00 min

Lab File: VX009168.D

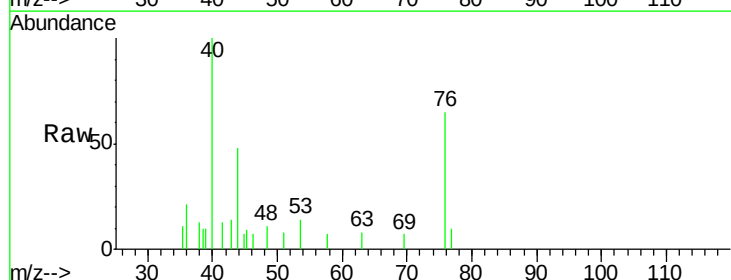
Acq: 25 Apr 2019 17:29

Tgt Ion: 76 Resp: 1001

Ion Ratio Lower Upper

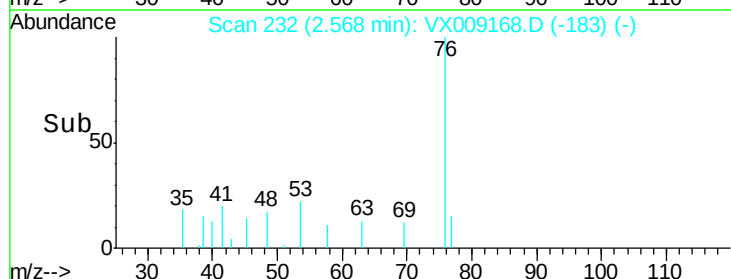
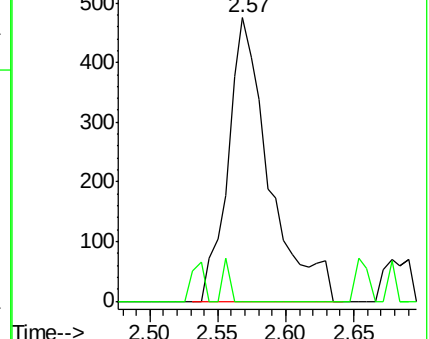
76 100

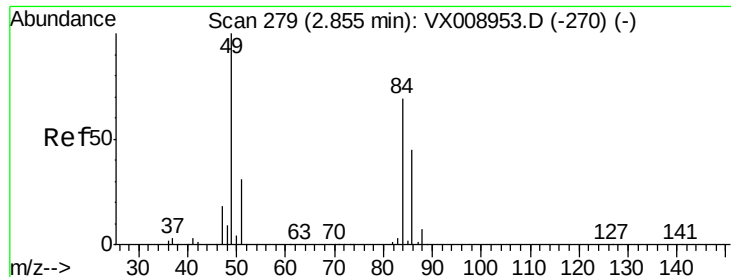
78 0.0 7.2 10.8#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

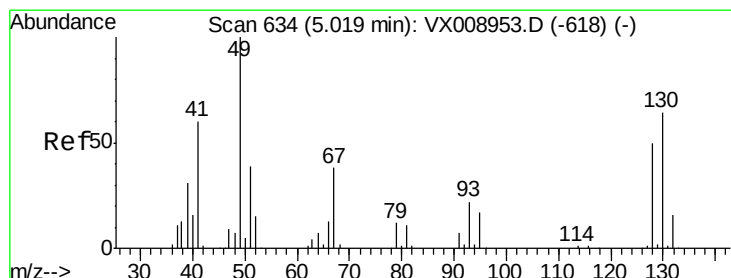
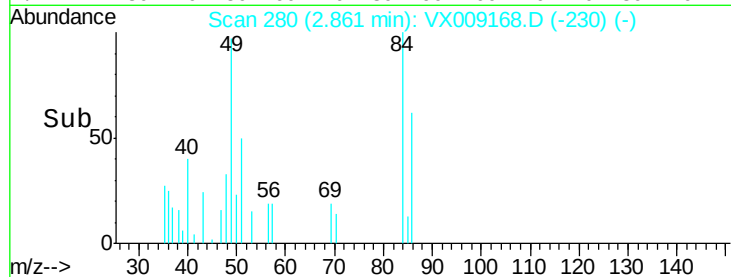
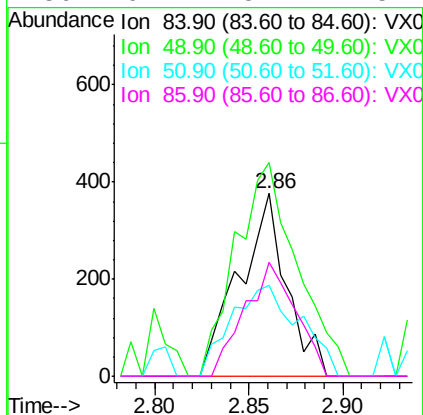
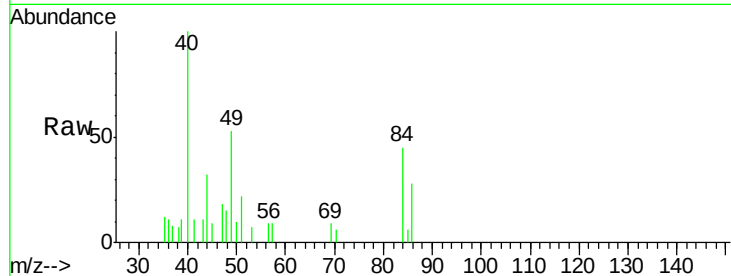




#20
Methylene Chloride
Concen: 0.252 ug/l
RT: 2.86 min Scan# 280
Delta R.T. 0.01 min
Lab File: VX009168.D
Acq: 25 Apr 2019 17:29

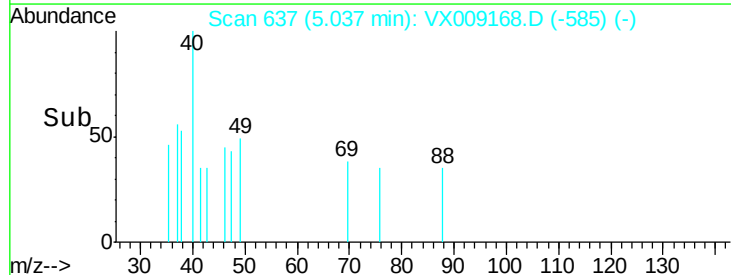
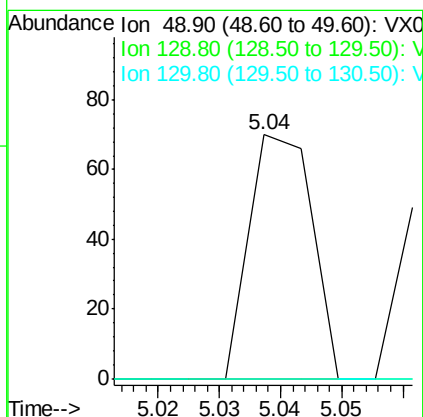
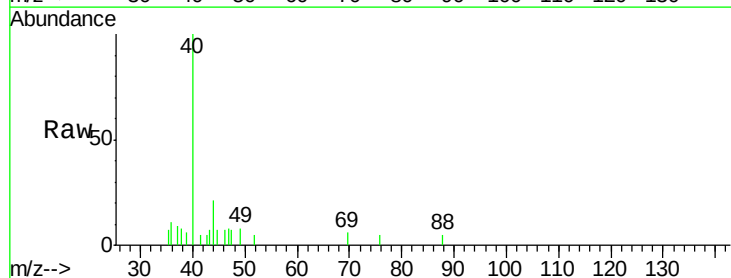
Instrument :
MSVOA_X
ClientSampled :
S37-0017

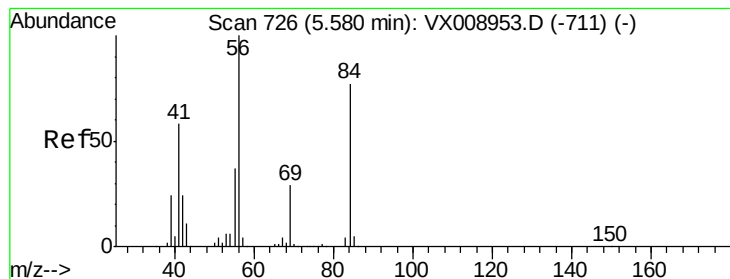
Tot Ion:	84	Resp:	659
Ion	Ratio	Lower	Upper
84	100		
49	116.7	115.4	173.0
51	49.6	35.8	53.6
86	62.1	52.1	78.1



#28
Bromochloromethane
Concen: Below Cal
RT: 5.04 min Scan# 637
Delta R.T. 0.02 min
Lab File: VX009168.D
Acq: 25 Apr 2019 17:29

Tgt Ion:	49	Resp:	50
Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	3.6
130	0.0	50.4	75.6#





#31

Cyclohexane

Concen: 0.971 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.09 min

Lab File: VX009168.D

Acq: 25 Apr 2019 17:29

Instrument :

MSVOA_X

ClientSampleId :

S37-0017

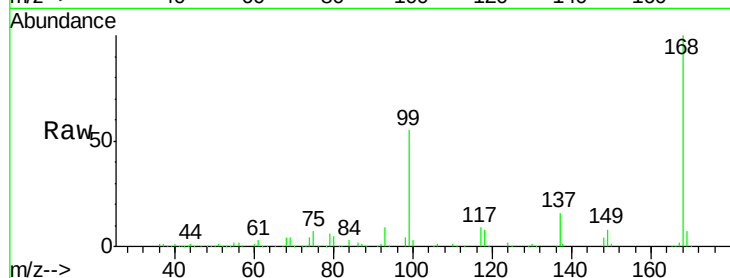
Tot Ion: 56 Resp: 4557

Ion Ratio Lower Upper

56 100

69 193.9 23.3 34.9#

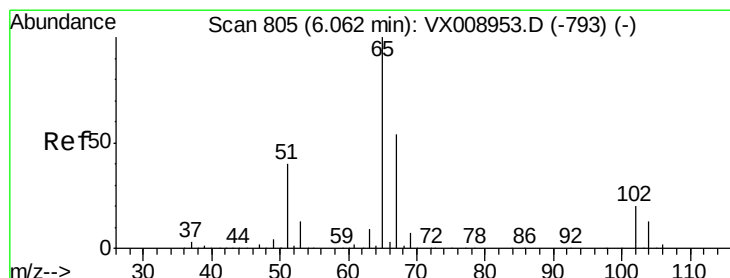
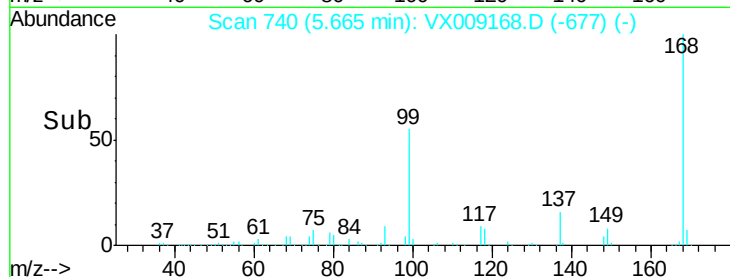
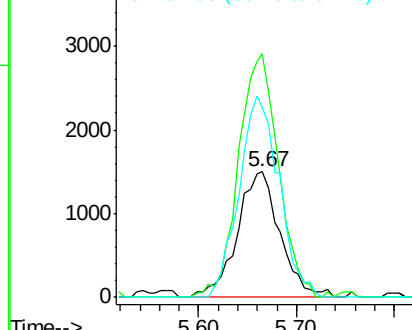
84 151.6 61.7 92.5#



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: 46.620 ug/l

RT: 6.06 min Scan# 805

Delta R.T. -0.00 min

Lab File: VX009168.D

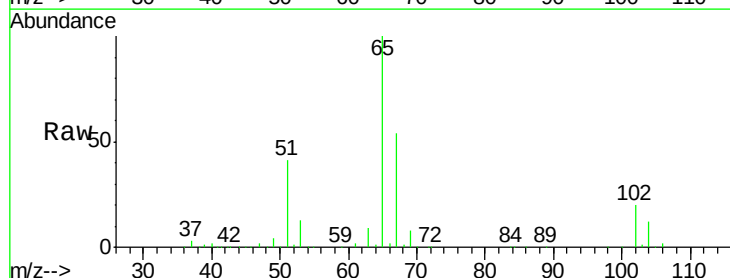
Acq: 25 Apr 2019 17:29

Tgt Ion: 65 Resp: 137410

Ion Ratio Lower Upper

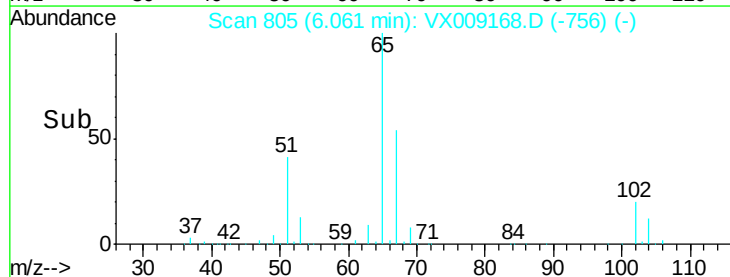
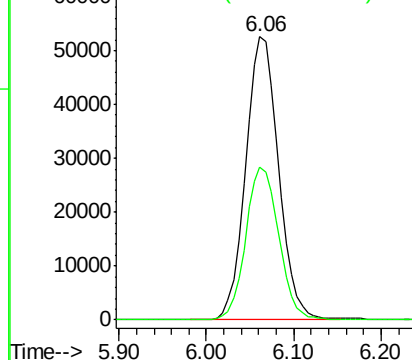
65 100

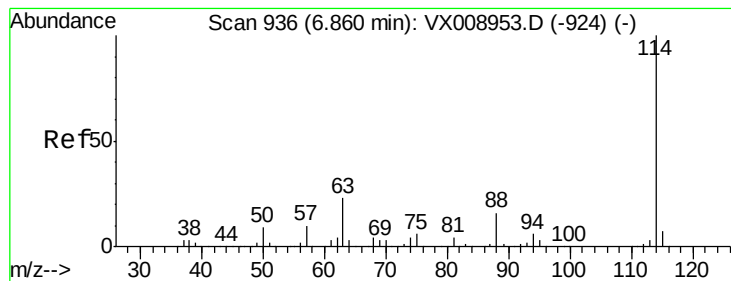
67 54.1 0.0 108.6



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: VX009168.D

Acq: 25 Apr 2019 17:29

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S37-0017

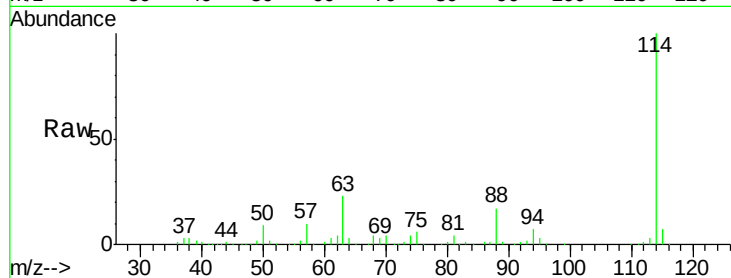
Tot Ion:114 Resp: 334475

Ion Ratio Lower Upper

114 100

63 23.1 0.0 46.0

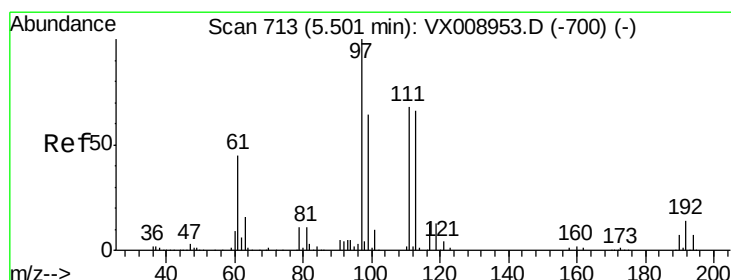
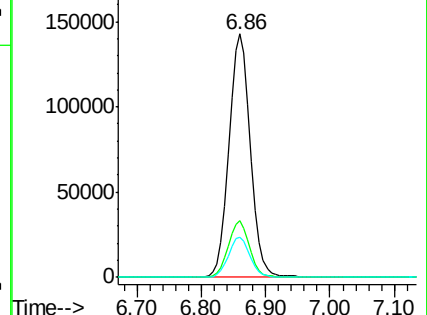
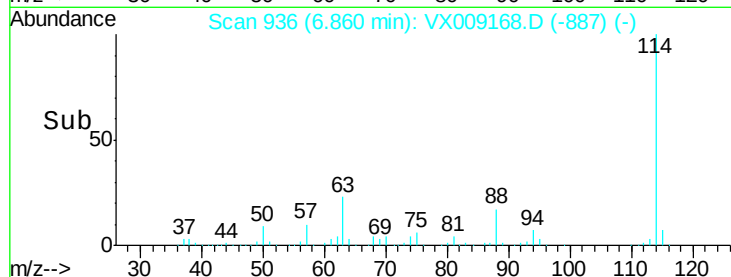
88 16.6 0.0 32.6



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: 47.614 ug/l

RT: 5.50 min Scan# 713

Delta R.T. -0.00 min

Lab File: VX009168.D

Acq: 25 Apr 2019 17:29

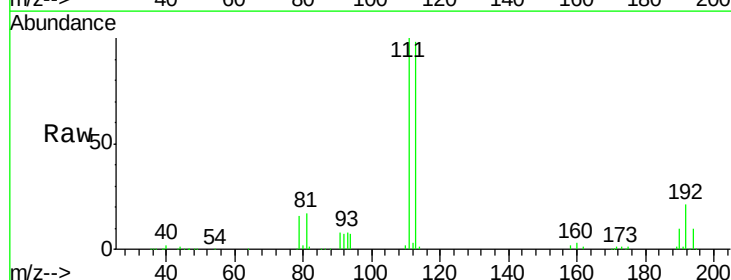
Tgt Ion:113 Resp: 102208

Ion Ratio Lower Upper

113 100

111 101.1 82.9 124.3

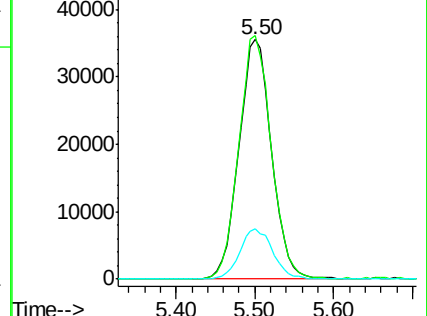
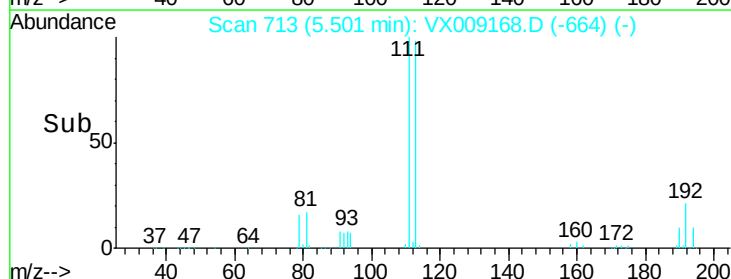
192 21.2 17.4 26.0

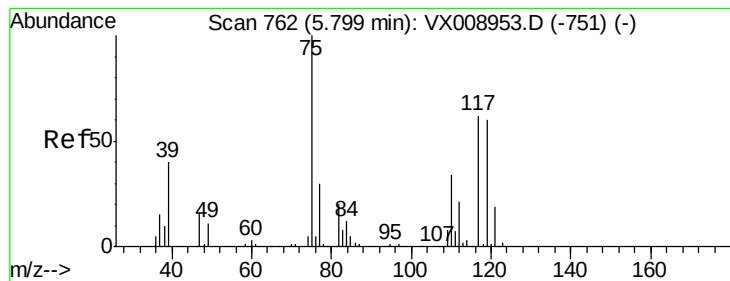


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.709 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX009168.D

Acq: 25 Apr 2019 17:29

Instrument :

MSVOA_X

ClientSampleId :

S37-0017

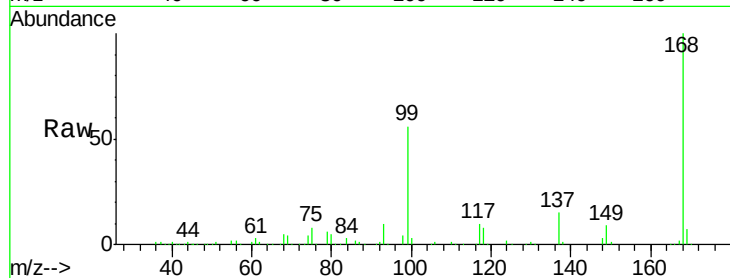
Tot Ion: 75 Resp: 16290

Ion Ratio Lower Upper

75 100

110 9.1 16.9 50.7#

77 0.0 25.0 37.4#

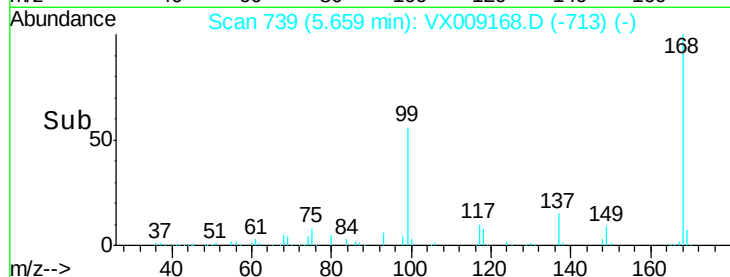


Abundance Ion 74.90 (74.60 to 75.60): VX008953.D (-751) (-)

Ion 109.90 (109.60 to 110.60): VX008953.D (-751) (-)

Ion 76.90 (76.60 to 77.60): VX008953.D (-751) (-)

Time-->

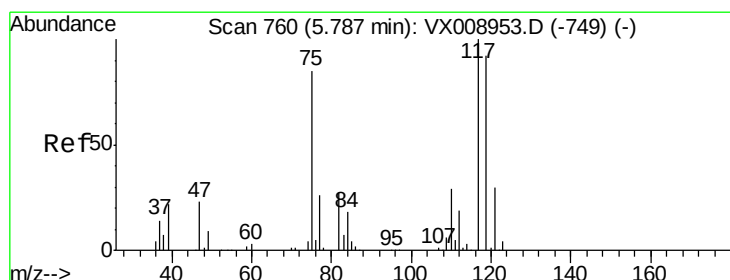


Abundance Ion 74.90 (74.60 to 75.60): VX009168.D (-713) (-)

Ion 109.90 (109.60 to 110.60): VX009168.D (-713) (-)

Ion 76.90 (76.60 to 77.60): VX009168.D (-713) (-)

Time-->



#38

Carbon Tetrachloride

Concen: 6.611 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.13 min

Lab File: VX009168.D

Acq: 25 Apr 2019 17:29

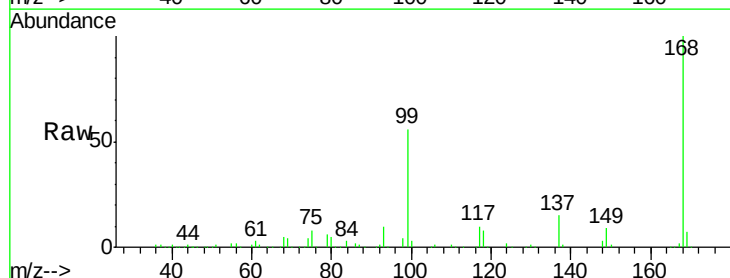
Tgt Ion: 117 Resp: 19386

Ion Ratio Lower Upper

117 100

119 4.8 73.8 110.8#

121 0.0 23.6 35.4#

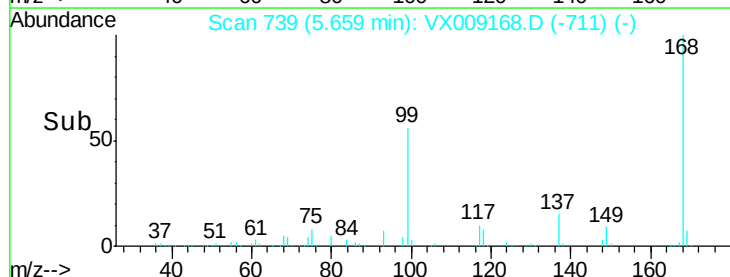


Abundance Ion 116.80 (116.50 to 117.50): VX008953.D (-749) (-)

Ion 118.80 (118.50 to 119.50): VX008953.D (-749) (-)

Ion 120.80 (120.50 to 121.50): VX008953.D (-749) (-)

Time-->

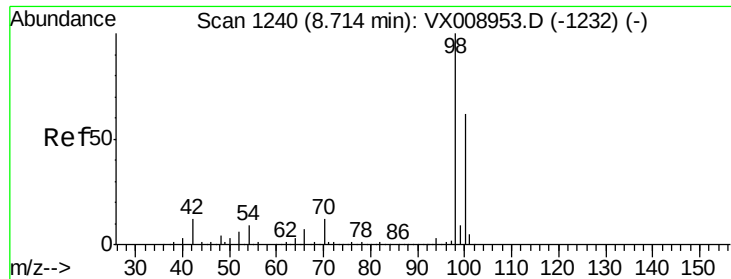


Abundance Ion 116.80 (116.50 to 117.50): VX009168.D (-711) (-)

Ion 118.80 (118.50 to 119.50): VX009168.D (-711) (-)

Ion 120.80 (120.50 to 121.50): VX009168.D (-711) (-)

Time-->



#50

Toluene-d8

Concen: 48.904 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX009168.D

Acq: 25 Apr 2019 17:29

Instrument :

MSVOA_X

ClientSampled :

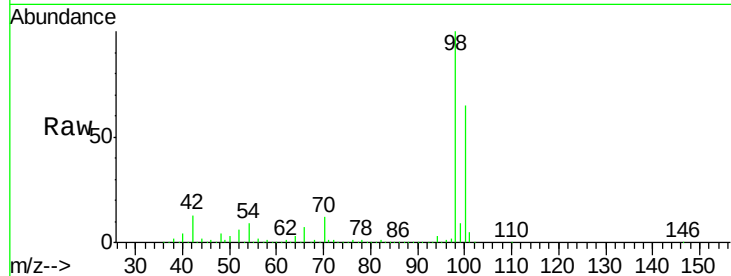
S37-0017

Tot Ion: 98 Resp: 418655

Ion Ratio Lower Upper

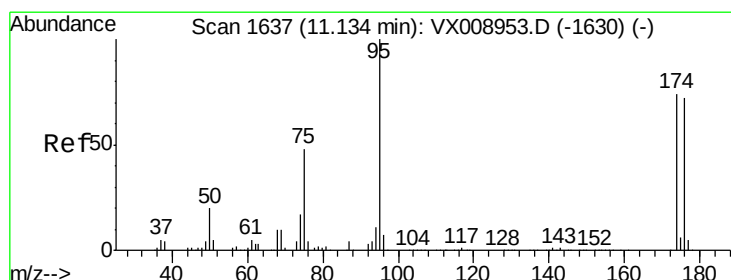
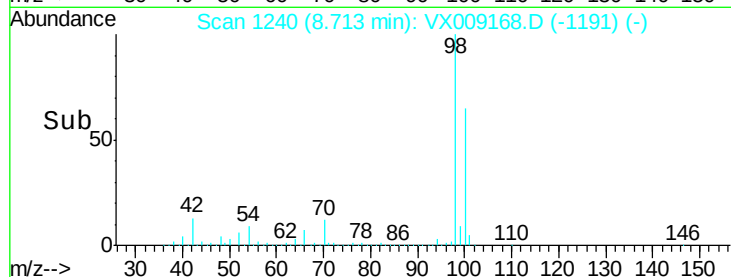
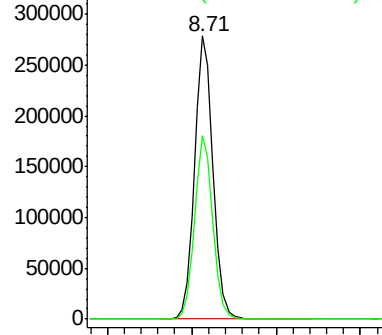
98 100

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): VX



#62

4-Bromofluorobenzene

Concen: 46.503 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX009168.D

Acq: 25 Apr 2019 17:29

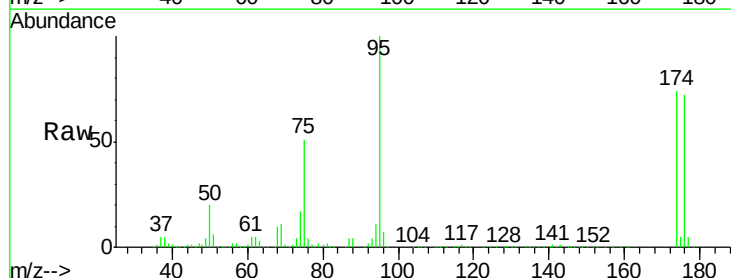
Tgt Ion: 95 Resp: 140530

Ion Ratio Lower Upper

95 100

174 79.5 0.0 159.6

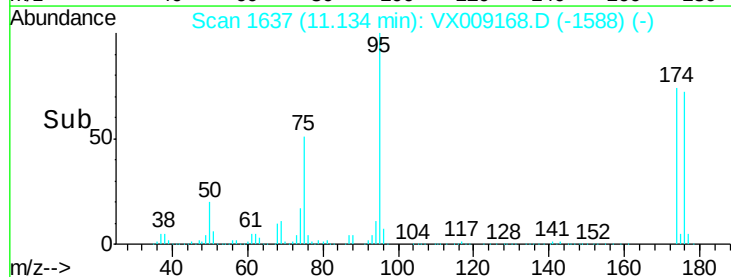
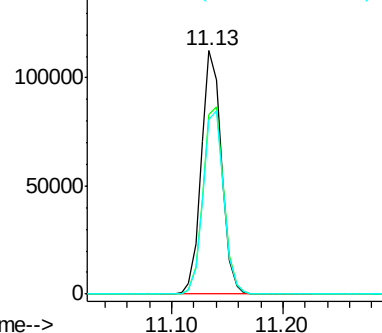
176 77.4 0.0 154.8

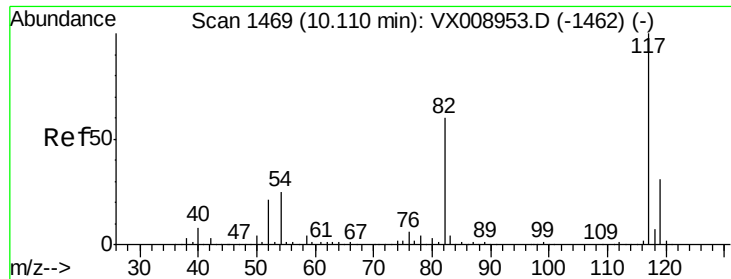


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.12 min Scan# 1470

Delta R.T. 0.01 min

Lab File: VX009168.D

Acq: 25 Apr 2019 17:29

Instrument :

MSVOA_X

ClientSampled :

S37-0017

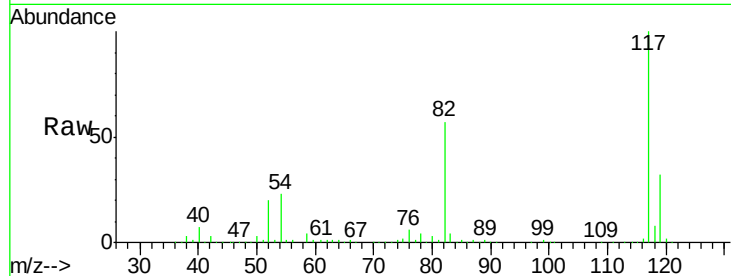
Tot Ion:117 Resp: 292577

Ion Ratio Lower Upper

117 100

82 56.9 48.2 72.4

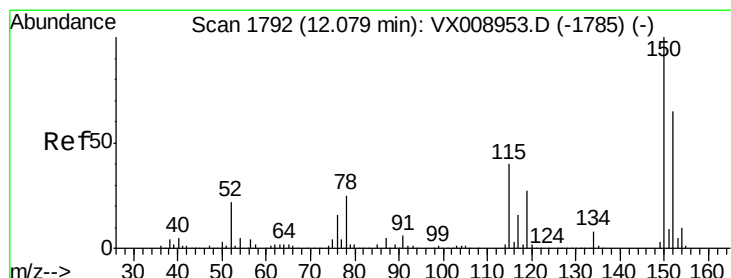
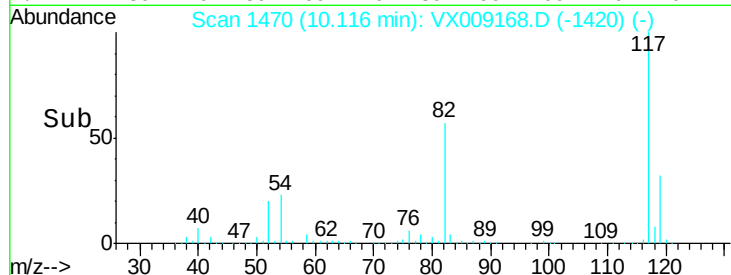
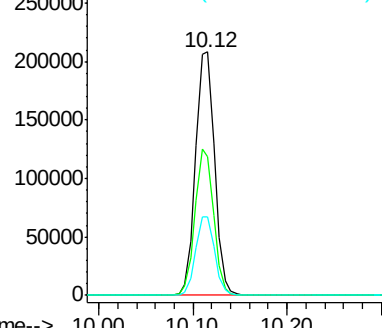
119 32.3 25.0 37.6



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



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX009168.D

Acq: 25 Apr 2019 17:29

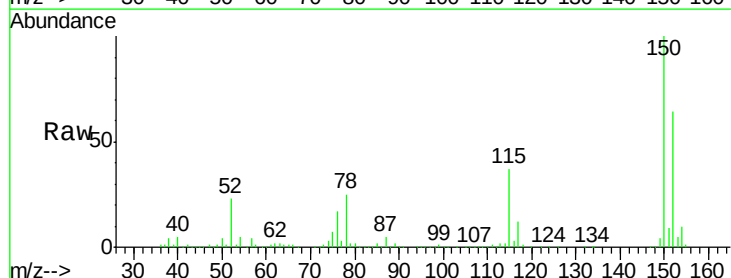
Tgt Ion:152 Resp: 125119

Ion Ratio Lower Upper

152 100

115 58.6 41.4 124.2

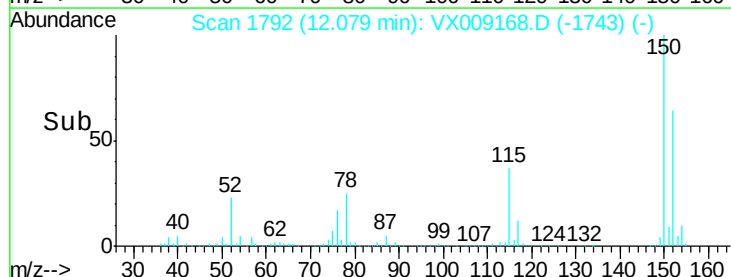
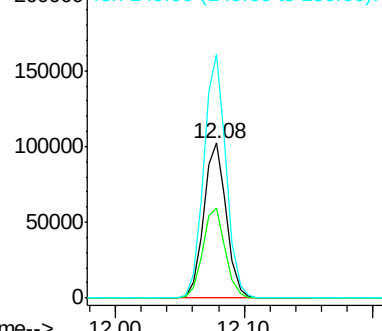
150 155.8 0.0 349.8

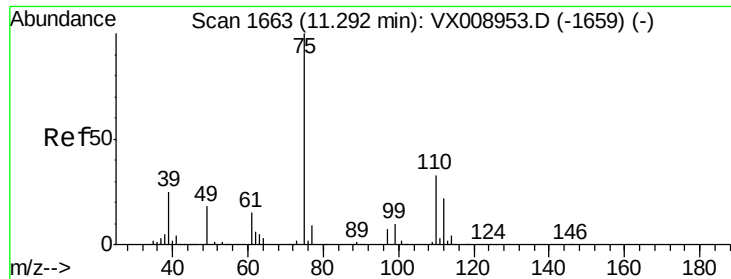


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 23.162 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX009168.D

Acq: 25 Apr 2019 17:29

Instrument :

MSVOA_X

ClientSampleId :

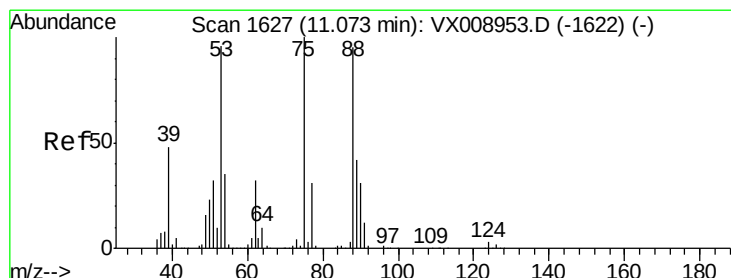
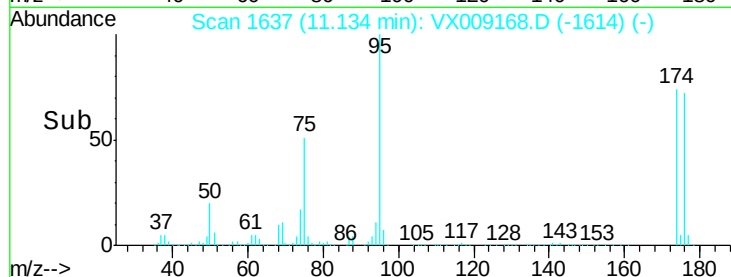
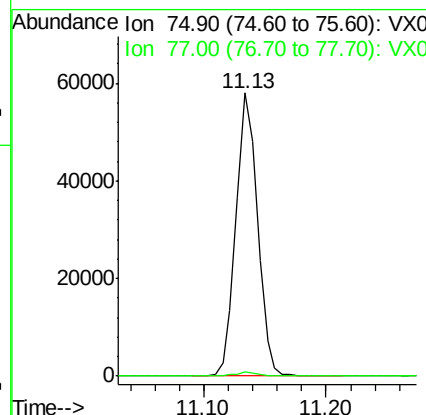
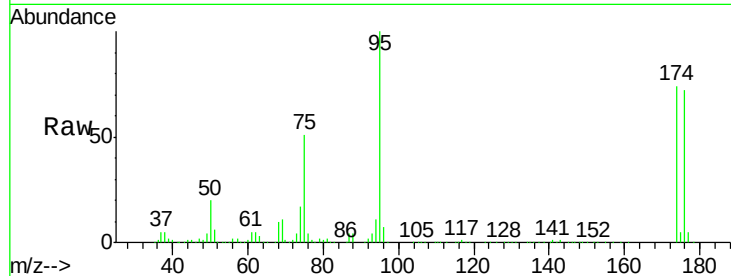
S37-0017

Tot Ion: 75 Resp: 70764

Ion Ratio Lower Upper

75 100

77 1.6 22.7 68.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 59.464 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX009168.D

Acq: 25 Apr 2019 17:29

Tgt Ion: 75 Resp: 70764

Ion Ratio Lower Upper

75 100

53 0.1 78.2 117.4#

89 0.0 36.0 54.0#

