

Data Path : W:\HPCHEM1\MSVOA X\DATA\VX041718\
 Data File : VX000975.D
 Acq On : 17 Apr 2018 19:49
 Operator : JC/MD
 Sample : J2410-04 5X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Apr 18 04:00:34 2018
 Quant Method : W:\HPCHEM1\MSVOA_X\METHOD\82X041018W.M
 Quant Title : SW846 8260
 QLast Update : Tue Apr 10 15:49:28 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	263357	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	364078	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	336298	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	216164	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	165074	49.71	ug/l	0.00
Spiked Amount			Recovery	=	99.42%	
35) Dibromofluoromethane	5.51	113	127429	45.43	ug/l	0.00
Spiked Amount			Recovery	=	90.86%	
50) Toluene-d8	8.72	98	508503	48.69	ug/l	0.00
Spiked Amount			Recovery	=	97.38%	
62) 4-Bromofluorobenzene	11.14	95	194402	44.99	ug/l	0.00
Spiked Amount			Recovery	=	89.98%	

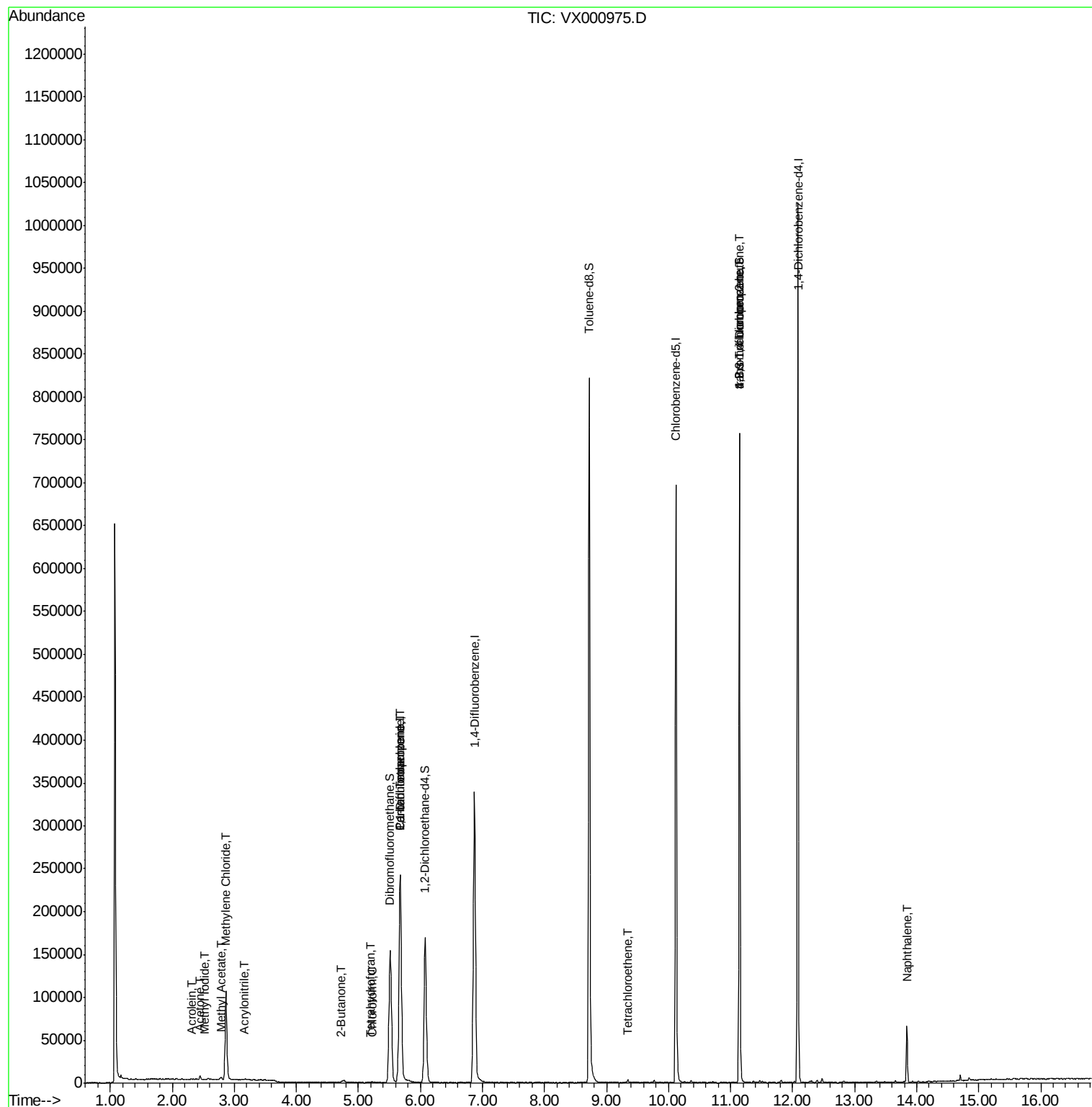
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.63	94	73	Below Cal	#	2
10) Methyl Iodide	2.52	142	167	8.301	ug/l #	42
13) Acrolein	2.31	56	140	0.489	ug/l	97
15) Acrylonitrile	3.16	53	418	0.333	ug/l #	66
16) Acetone	2.45	43	4590	4.008	ug/l	96
18) Methyl Acetate	2.78	43	3358	1.133	ug/l	96
20) Methylene Chloride	2.87	84	50389	18.919	ug/l	99
25) 2-Butanone	4.71	43	1551	0.820	ug/l	95
29) Tetrahydrofuran	5.18	42	764	0.636	ug/l #	60
30) Chloroform	5.22	83	998	0.205	ug/l	93
36) 1,1-Dichloropropene	5.67	75	16168	4.032	ug/l #	49
38) Carbon Tetrachloride	5.67	117	22803	5.081	ug/l #	15
64) Tetrachloroethene	9.34	164	782	0.238	ug/l	90
76) 1,2,3-Trichloropropane	11.14	75	97347	26.113	ug/l #	36
81) trans-1,4-Dichloro-2-buten	11.14	75	97347	71.830	ug/l #	11
95) Naphthalene	13.84	128	39612	2.518	ug/l	99

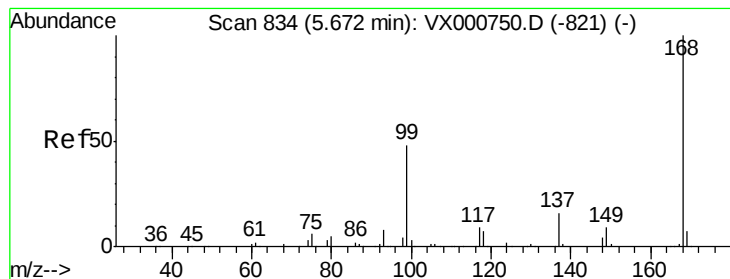
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.00 min

Lab File: VX000975.D

Acq: 17 Apr 2018 19:49

Instrument :

MSVOA_X

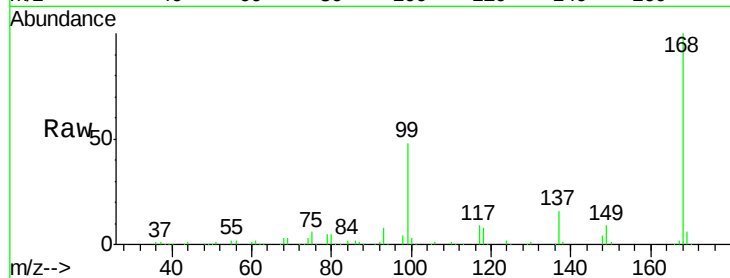
ClientSampleId :

Tot Ion:168 Resp: 263357

Ion Ratio Lower Upper

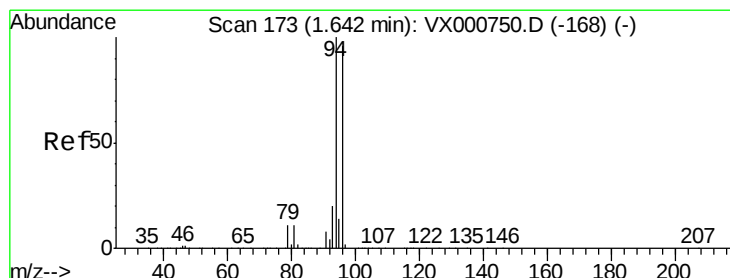
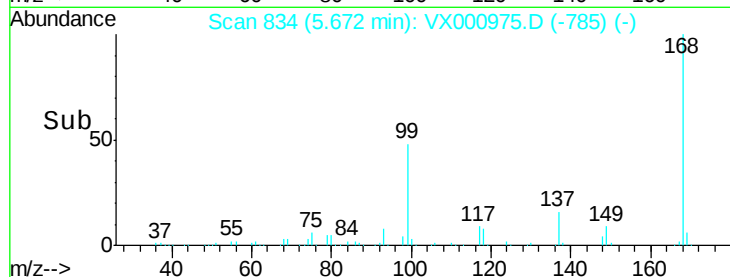
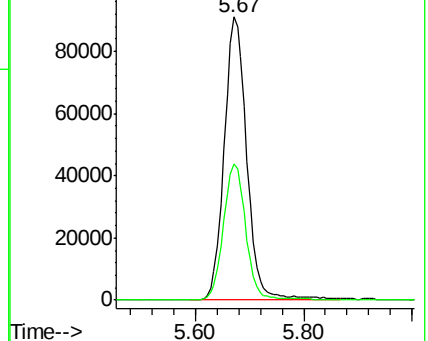
168 100

99 48.2 38.3 57.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#5

Bromomethane

Concen: Below Cal

RT: 1.63 min Scan# 171

Delta R.T. -0.01 min

Lab File: VX000975.D

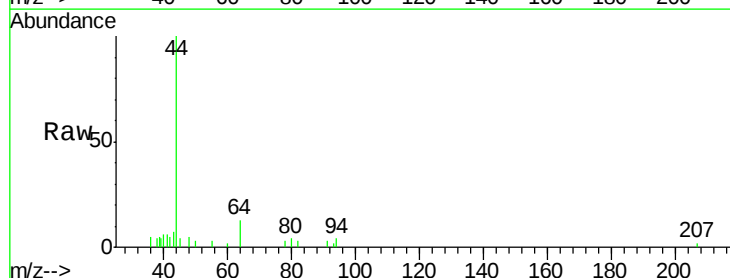
Acq: 17 Apr 2018 19:49

Tgt Ion: 94 Resp: 73

Ion Ratio Lower Upper

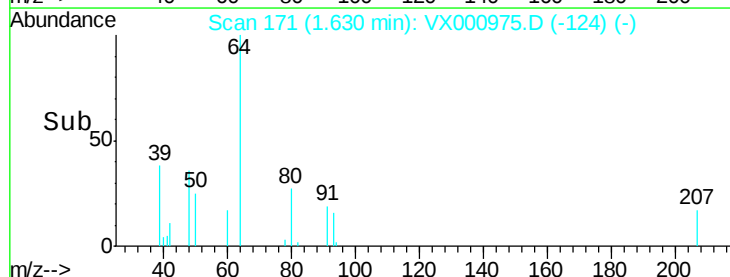
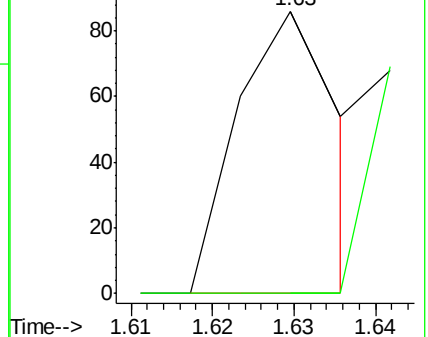
94 100

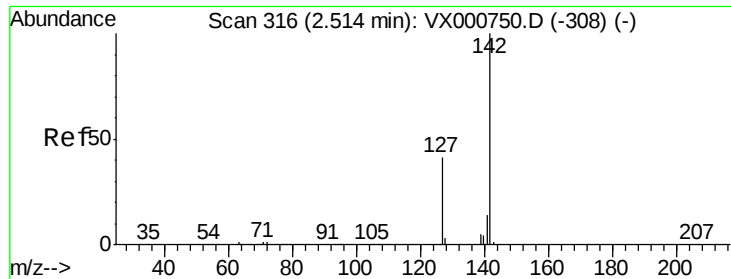
96 0.0 77.0 115.6#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

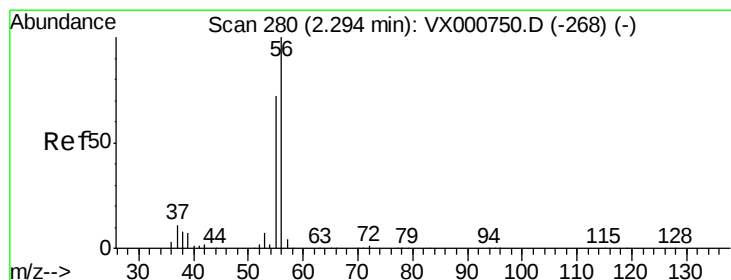
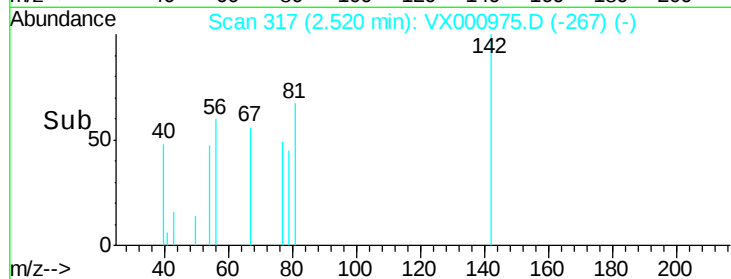
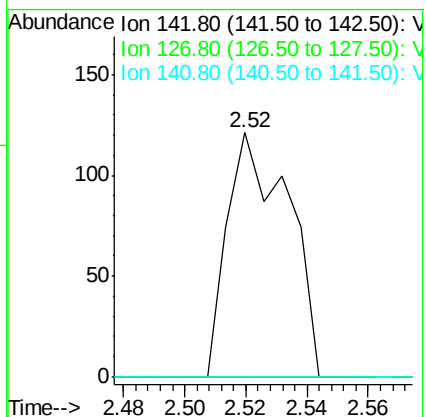
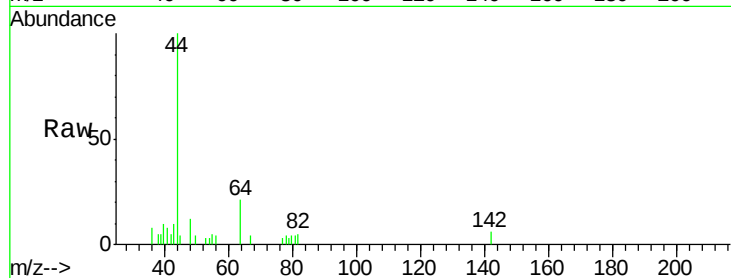




#10
Methvl Iodide
Concen: 8.301 ug/l
RT: 2.52 min Scan# 317
Delta R.T. 0.01 min
Lab File: VX000975.D
Acq: 17 Apr 2018 19:49

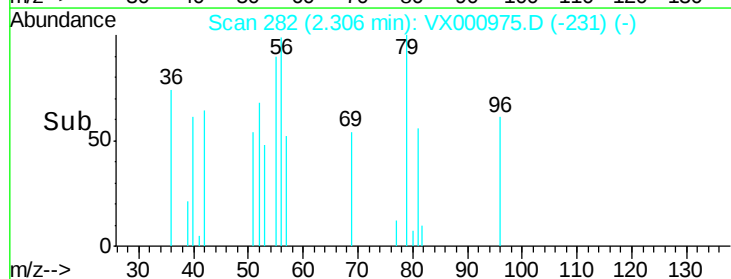
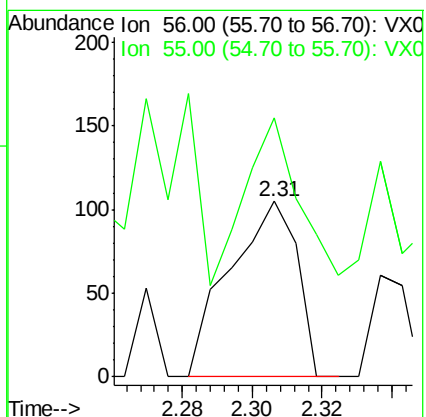
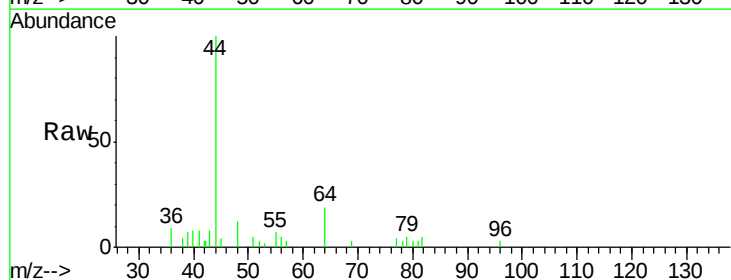
Instrument :
MSVOA_X
ClientSampleId :

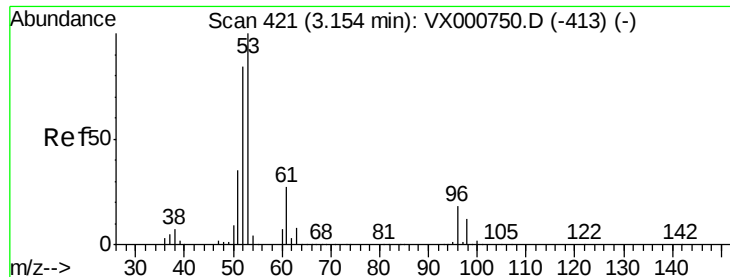
Tot Ion:142 Resp: 167
Ion Ratio Lower Upper
142 100
127 0.0 32.6 49.0#
141 0.0 11.5 17.3#



#13
Acrolein
Concen: 0.489 ug/l
RT: 2.31 min Scan# 282
Delta R.T. 0.01 min
Lab File: VX000975.D
Acq: 17 Apr 2018 19:49

Tgt Ion: 56 Resp: 140
Ion Ratio Lower Upper
56 100
55 75.7 58.7 88.1





#15

Acrylonitrile

Concen: 0.333 ug/l

RT: 3.16 min Scan# 422

Delta R.T. 0.01 min

Lab File: VX000975.D

Acq: 17 Apr 2018 19:49

Instrument :
MSVOA_X
ClientSampleId :

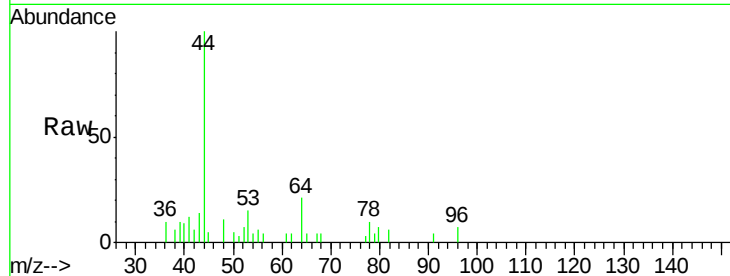
Tot Ion: 53 Resp: 418

Ion Ratio Lower Upper

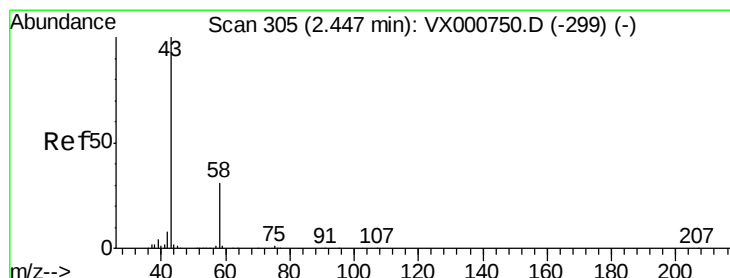
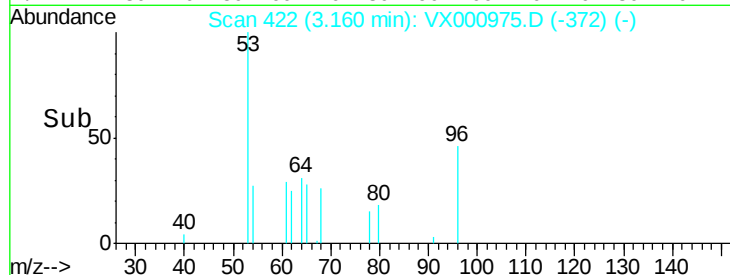
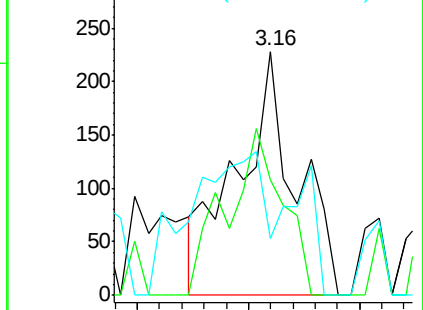
53 100

52 65.1 66.5 99.7#

51 74.6 28.8 43.2#



Abundance Ion 53.00 (52.70 to 53.70): VX0
Ion 52.00 (51.70 to 52.70): VX0
Ion 51.00 (50.70 to 51.70): VX0



#16

Acetone

Concen: 4.008 ug/l

RT: 2.45 min Scan# 305

Delta R.T. -0.00 min

Lab File: VX000975.D

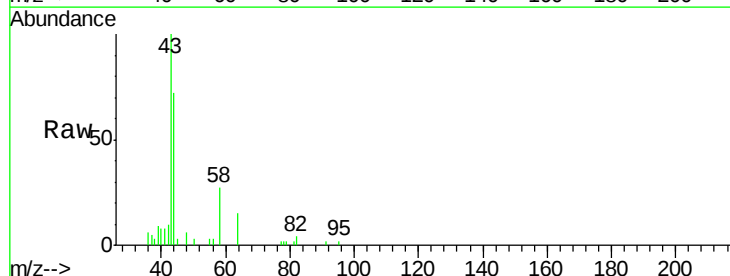
Acq: 17 Apr 2018 19:49

Tgt Ion: 43 Resp: 4590

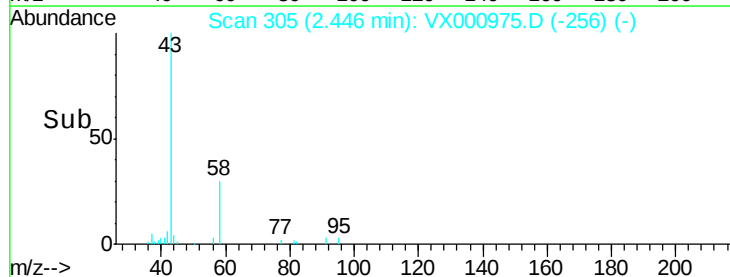
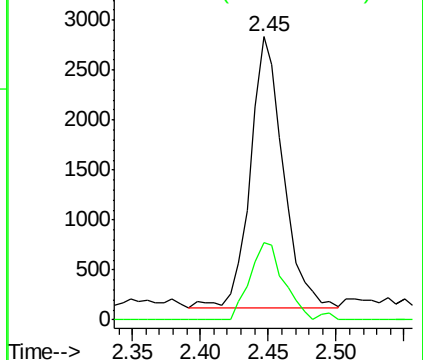
Ion Ratio Lower Upper

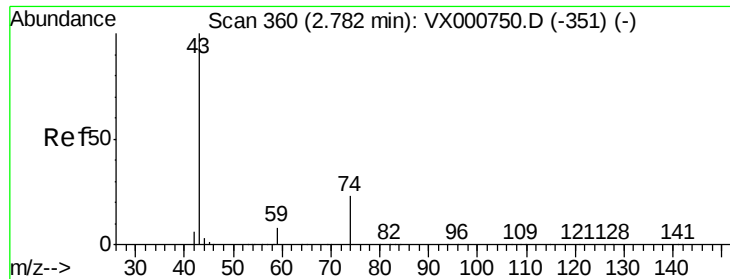
43 100

58 28.5 24.6 37.0



Abundance Ion 43.00 (42.70 to 43.70): VX0
Ion 58.00 (57.70 to 58.70): VX0

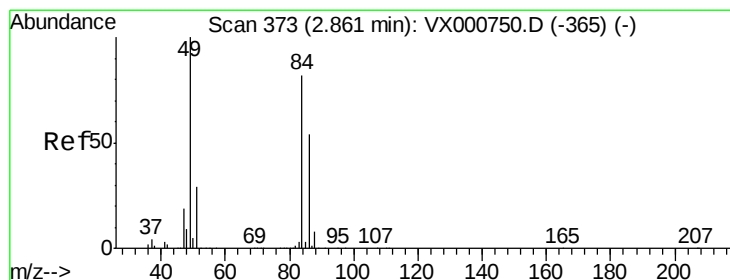
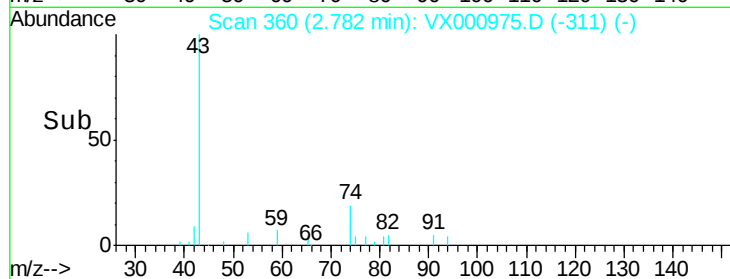
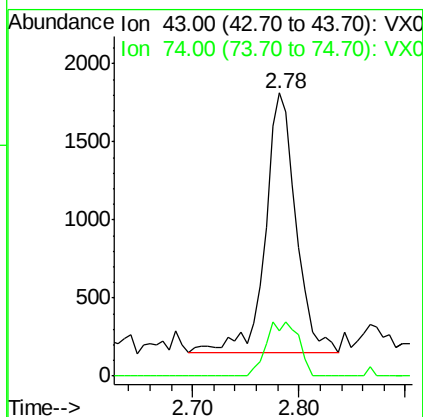
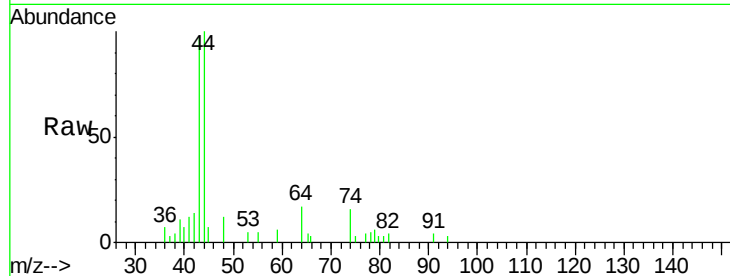




#18
Methvl Acetate
Concen: 1.133 ug/l
RT: 2.78 min Scan# 360
Delta R.T. -0.00 min
Lab File: VX000975.D
Acq: 17 Apr 2018 19:49

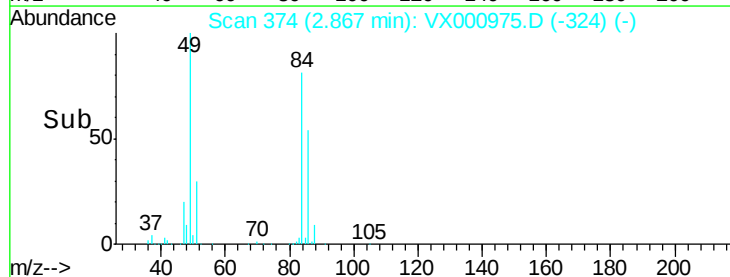
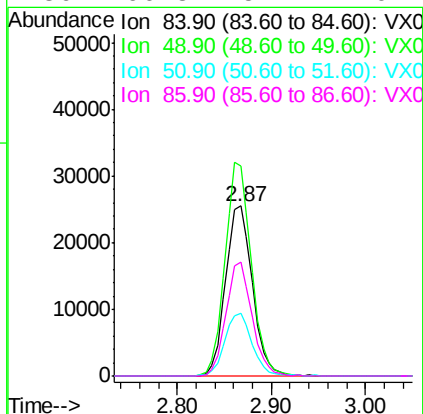
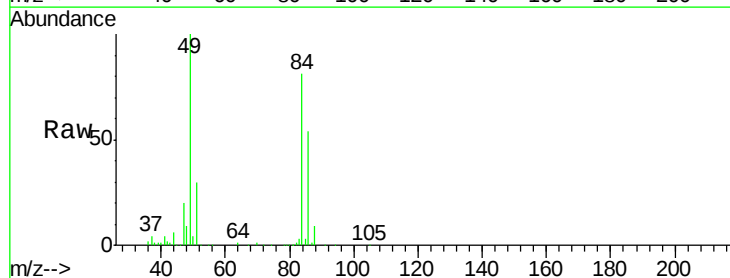
Instrument :
MSVOA_X
ClientSampleId :

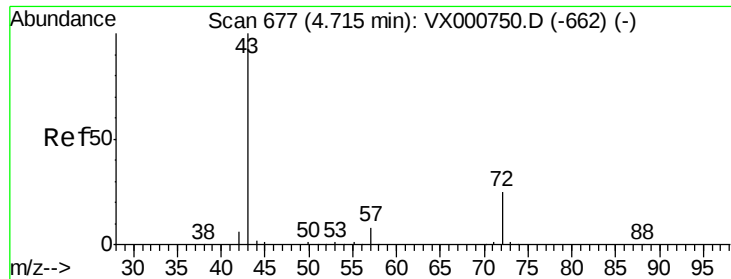
Tot Ion: 43 Resp: 3358
Ion Ratio Lower Upper
43 100
74 21.9 19.1 28.7



#20
Methylene Chloride
Concen: 18.919 ug/l
RT: 2.87 min Scan# 374
Delta R.T. 0.01 min
Lab File: VX000975.D
Acq: 17 Apr 2018 19:49

Tgt Ion: 84 Resp: 50389
Ion Ratio Lower Upper
84 100
49 123.1 98.1 147.1
51 36.9 28.9 43.3
86 66.8 52.7 79.1





#25

2-Butanone

Concen: 0.820 ug/l

RT: 4.71 min Scan# 677

Delta R.T. -0.00 min

Lab File: VX000975.D

Acq: 17 Apr 2018 19:49

Instrument :

MSVOA_X

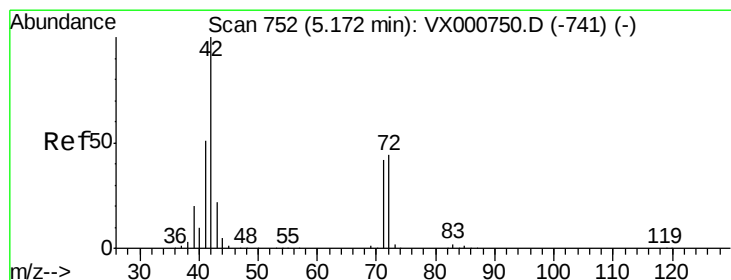
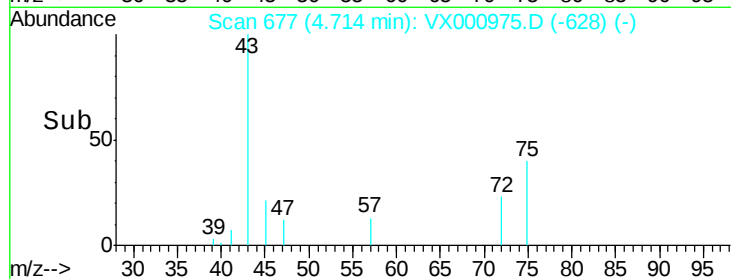
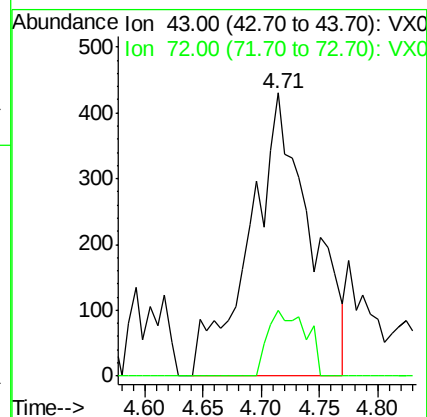
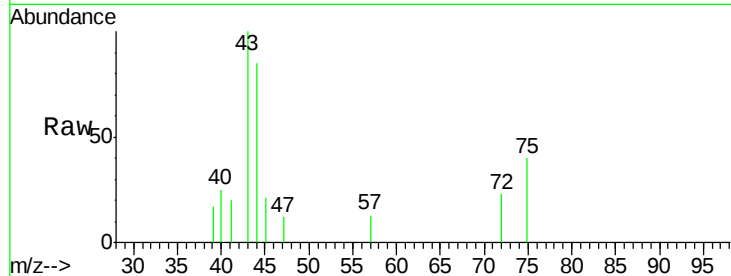
ClientSampled :

Tot Ion: 43 Resp: 1551

Ion Ratio Lower Upper

43 100

72 23.0 20.3 30.5



#29

Tetrahydrofuran

Concen: 0.636 ug/l

RT: 5.18 min Scan# 754

Delta R.T. 0.01 min

Lab File: VX000975.D

Acq: 17 Apr 2018 19:49

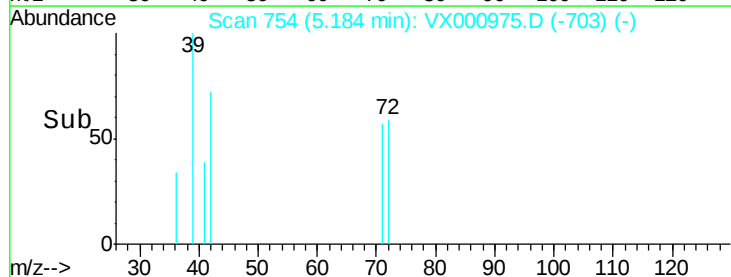
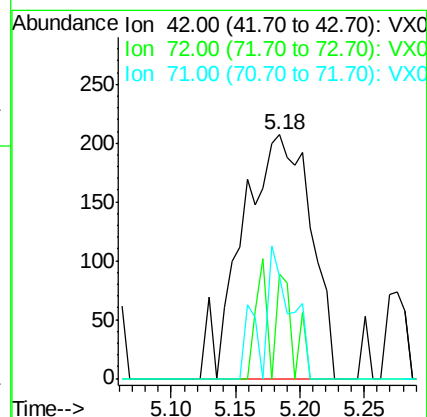
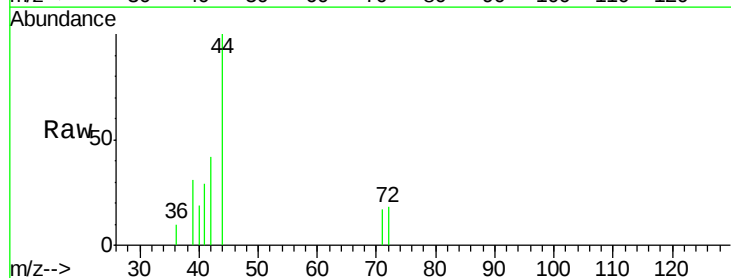
Tgt Ion: 42 Resp: 764

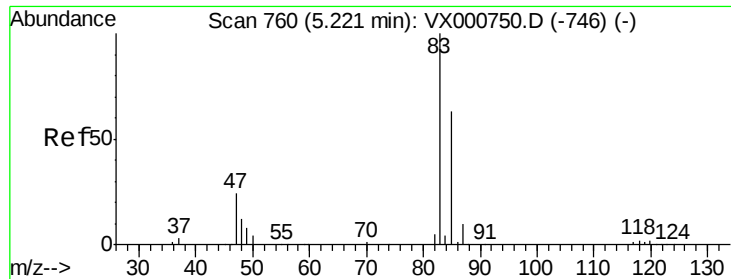
Ion Ratio Lower Upper

42 100

72 10.9 35.1 52.7#

71 23.4 32.8 49.2#

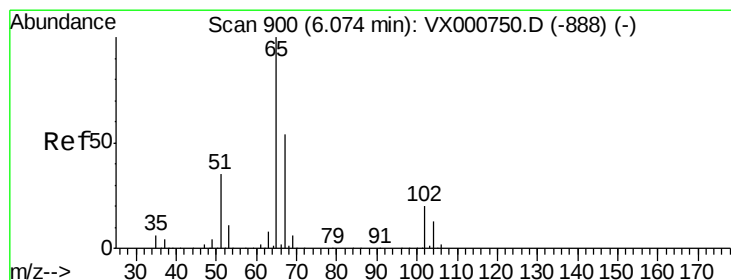
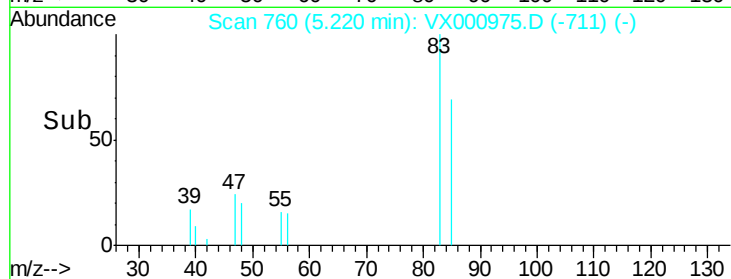
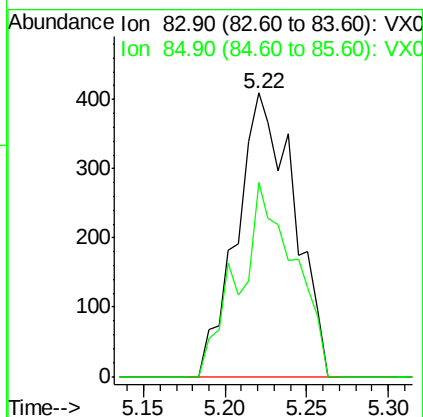
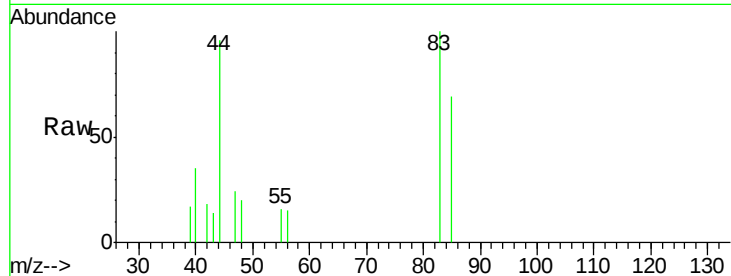




#30
Chloroform
Concen: 0.205 ug/l
RT: 5.22 min Scan# 760
Delta R.T. -0.00 min
Lab File: VX000975.D
Acq: 17 Apr 2018 19:49

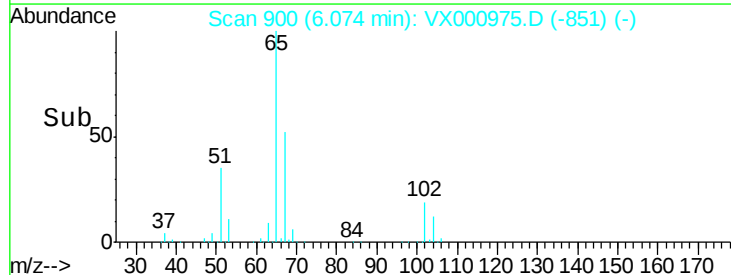
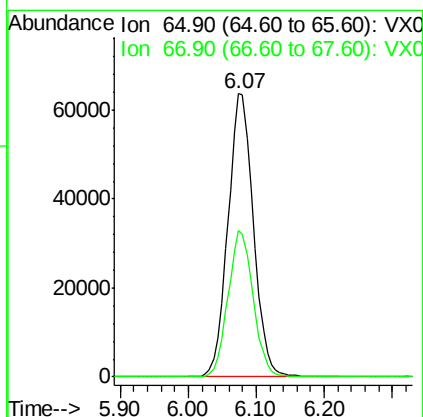
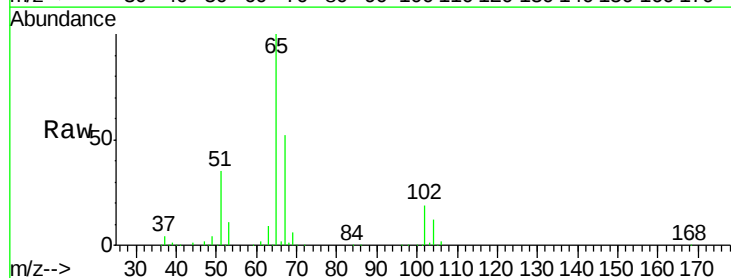
Instrument :
MSVOA_X
ClientSampleId :

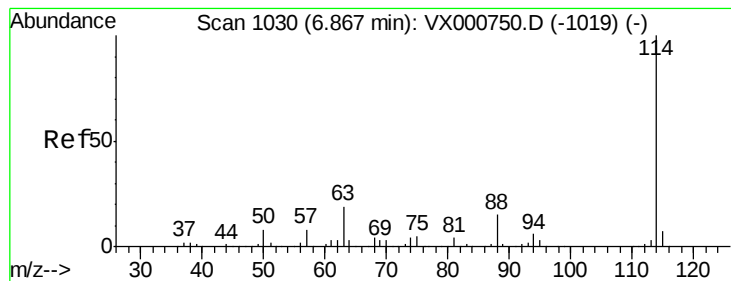
Tot Ion: 83 Resp: 998
Ion Ratio Lower Upper
83 100
85 68.7 50.7 76.1



#33
1,2-Dichloroethane-d4
Concen: 49.712 ug/l
RT: 6.07 min Scan# 900
Delta R.T. -0.00 min
Lab File: VX000975.D
Acq: 17 Apr 2018 19:49

Tgt Ion: 65 Resp: 165074
Ion Ratio Lower Upper
65 100
67 50.9 0.0 103.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.87 min Scan# 1031

Delta R.T. 0.01 min

Lab File: VX000975.D

Acq: 17 Apr 2018 19:49

Instrument :

MSVOA_X

ClientSampleId :

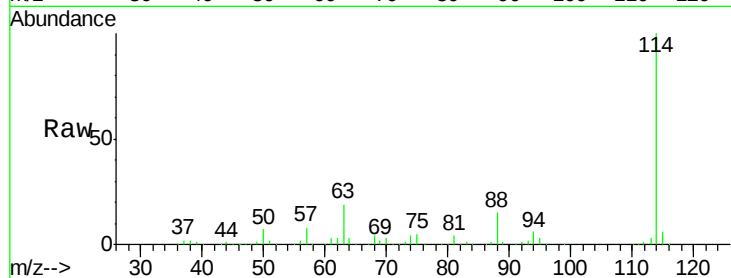
Tot Ion:114 Resp: 364078

Ion Ratio Lower Upper

114 100

63 19.2 0.0 38.4

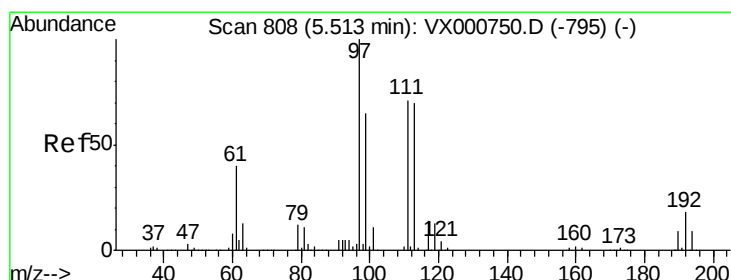
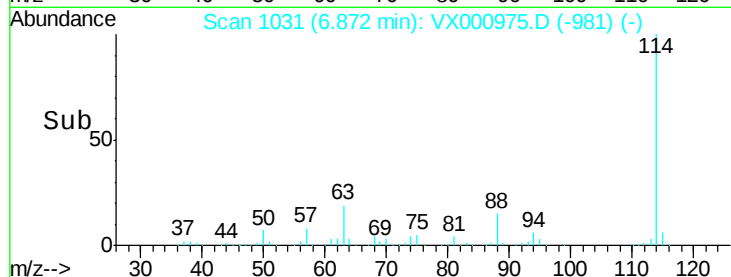
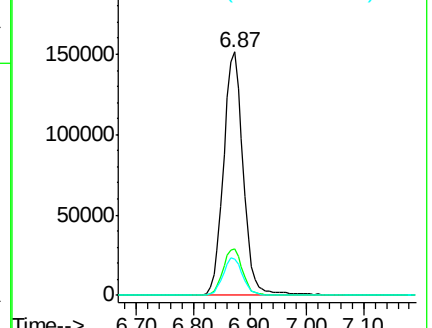
88 15.1 0.0 31.0



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: 45.429 ug/l

RT: 5.51 min Scan# 808

Delta R.T. -0.00 min

Lab File: VX000975.D

Acq: 17 Apr 2018 19:49

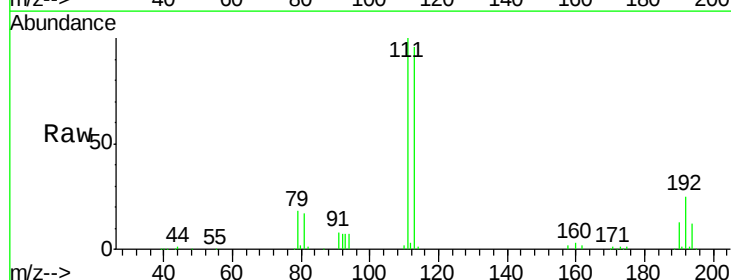
Tgt Ion:113 Resp: 127429

Ion Ratio Lower Upper

113 100

111 103.0 81.5 122.3

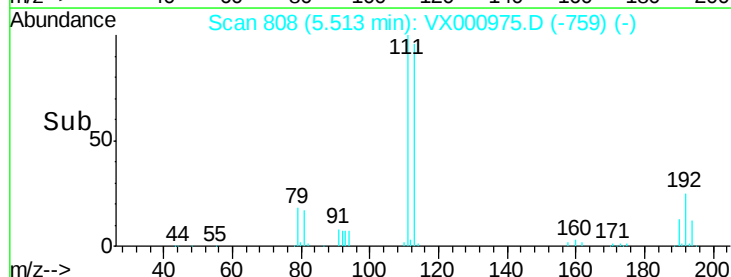
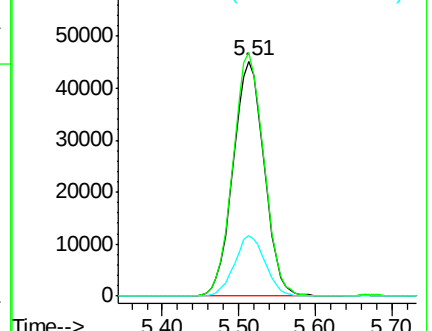
192 25.4 20.4 30.6

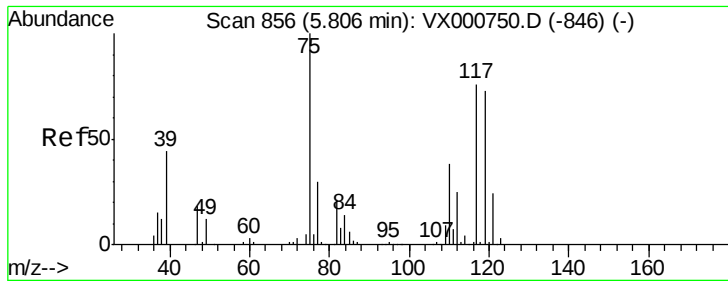


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

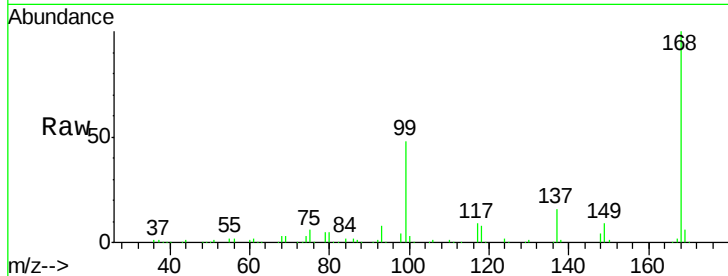




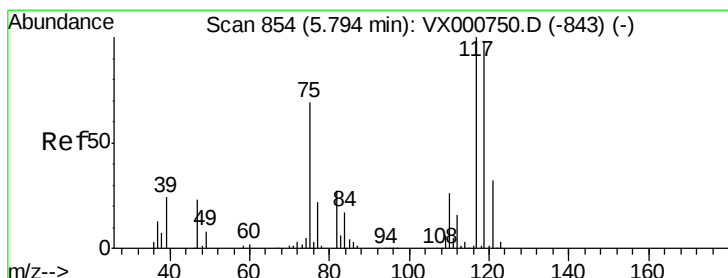
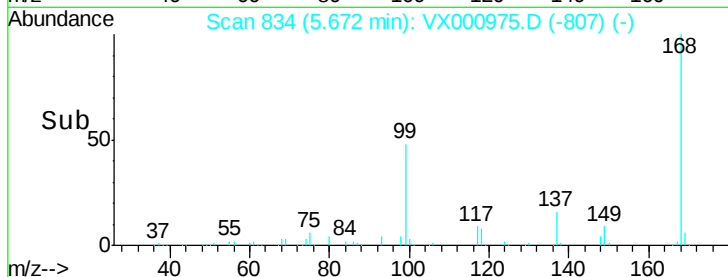
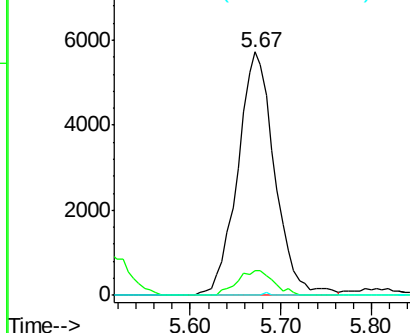
#36
 1,1-Dichloropropene
 Concen: 4.032 ug/l
 RT: 5.67 min Scan# 834
 Delta R.T. -0.13 min
 Lab File: VX000975.D
 Acq: 17 Apr 2018 19:49

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion: 75 Resp: 16168
 Ion Ratio Lower Upper
 75 100
 110 10.0 19.2 57.6#
 77 0.2 25.4 38.2#

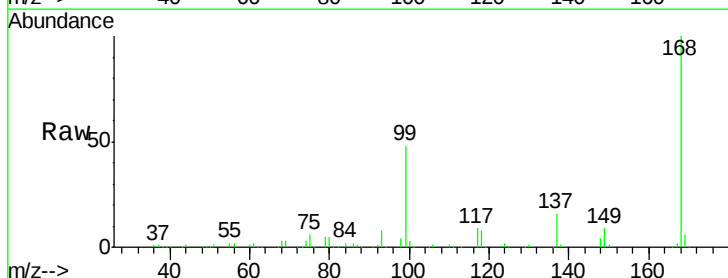


Abundance Ion 74.90 (74.60 to 75.60): VX0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VX0

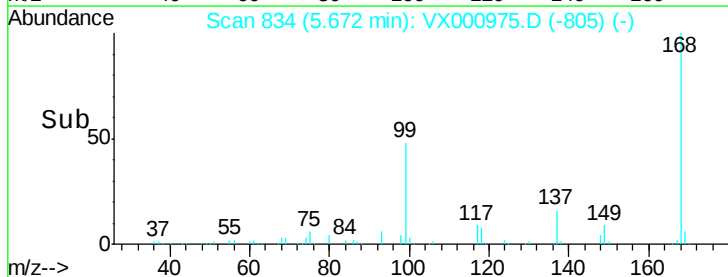
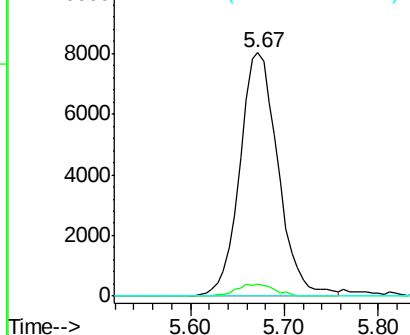


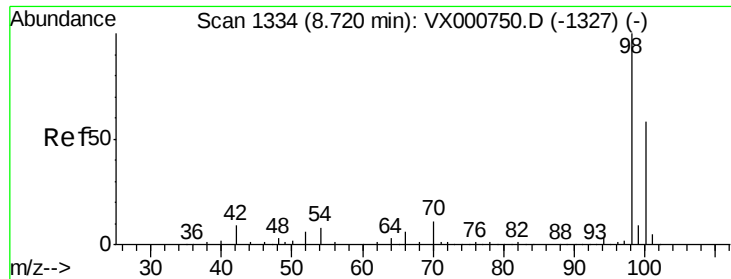
#38
 Carbon Tetrachloride
 Concen: 5.081 ug/l
 RT: 5.67 min Scan# 834
 Delta R.T. -0.12 min
 Lab File: VX000975.D
 Acq: 17 Apr 2018 19:49

Tgt Ion:117 Resp: 22803
 Ion Ratio Lower Upper
 117 100
 119 5.1 78.4 117.6#
 121 0.0 25.4 38.0#



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: 48.688 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. -0.00 min

Lab File: VX000975.D

Acq: 17 Apr 2018 19:49

Instrument :

MSVOA_X

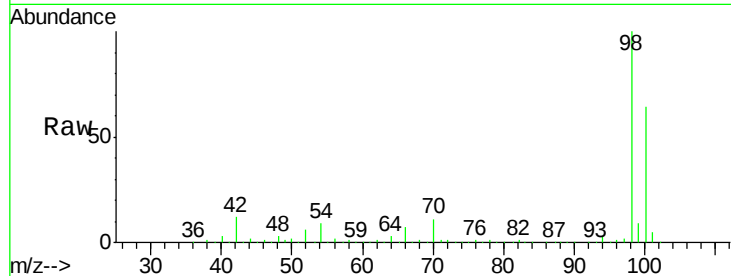
ClientSampleId :

Tot Ion: 98 Resp: 508503

Ion Ratio Lower Upper

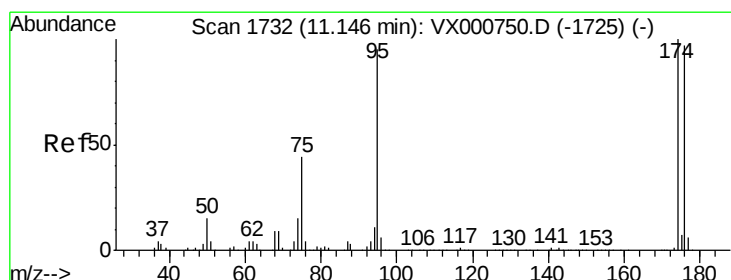
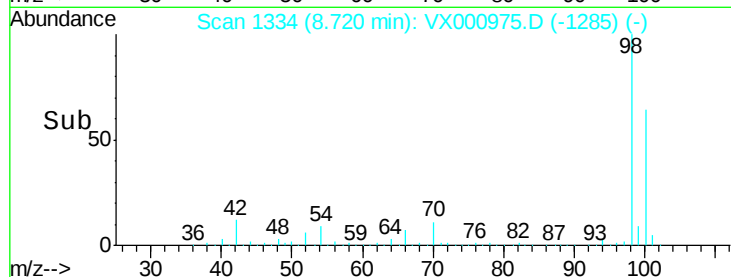
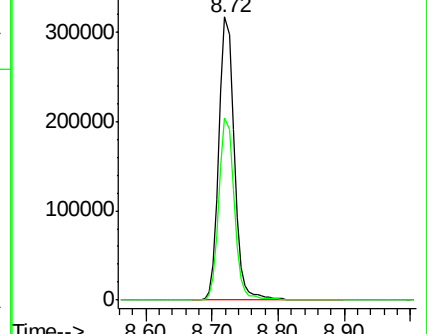
98 100

100 64.5 52.6 79.0



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX



#62

4-Bromofluorobenzene

Concen: 44.990 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.01 min

Lab File: VX000975.D

Acq: 17 Apr 2018 19:49

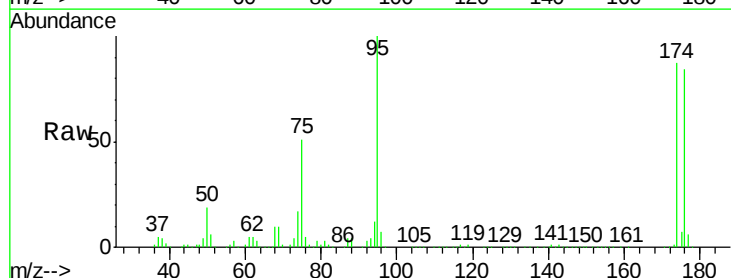
Tgt Ion: 95 Resp: 194402

Ion Ratio Lower Upper

95 100

174 97.2 0.0 198.4

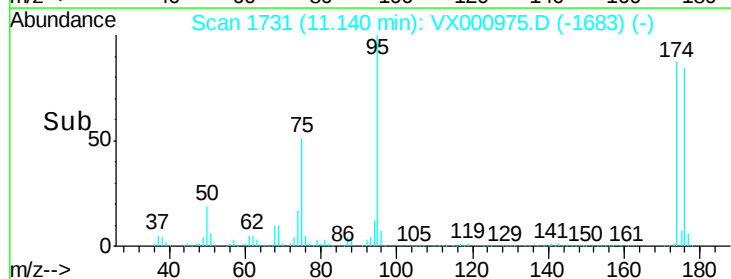
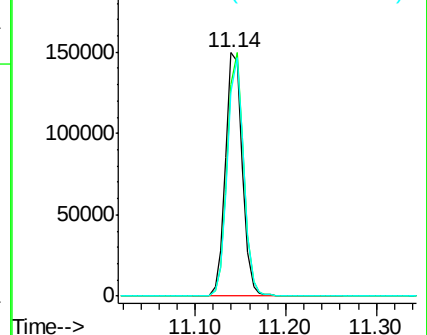
176 94.9 0.0 194.4

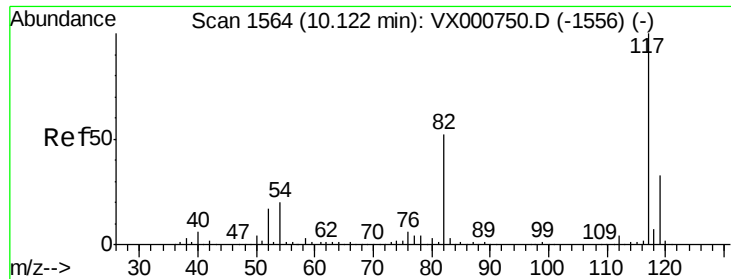


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

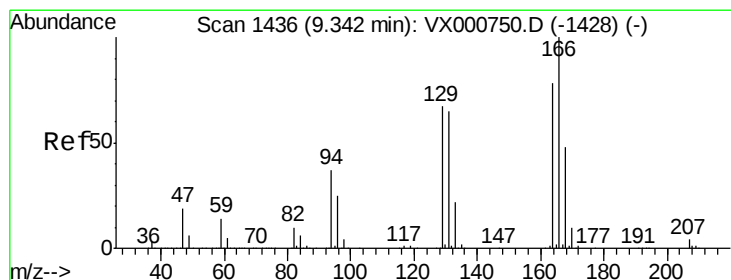
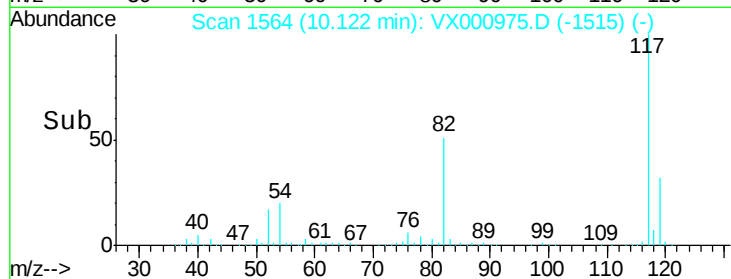
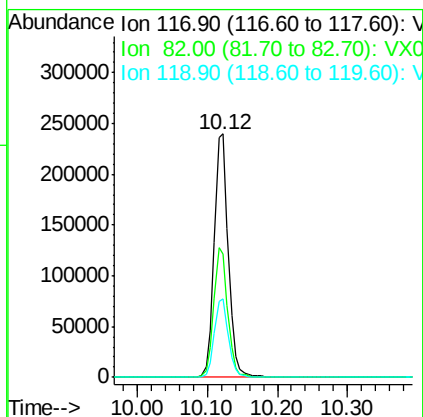
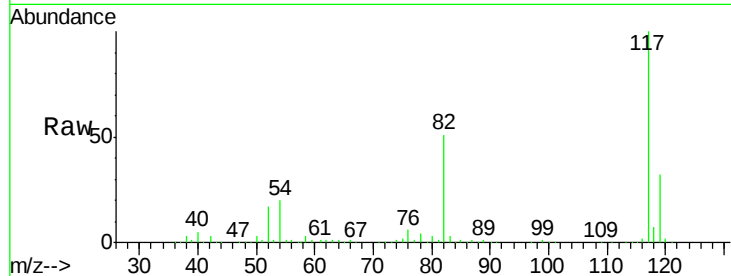




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1564
Delta R.T. -0.00 min
Lab File: VX000975.D
Acq: 17 Apr 2018 19:49

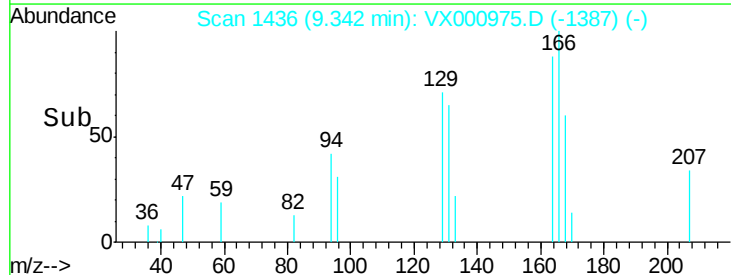
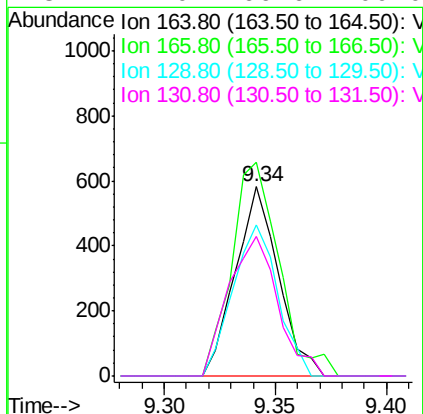
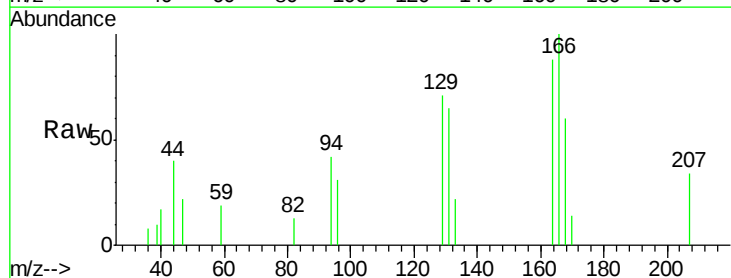
Instrument :
MSVOA_X
ClientSampleId :

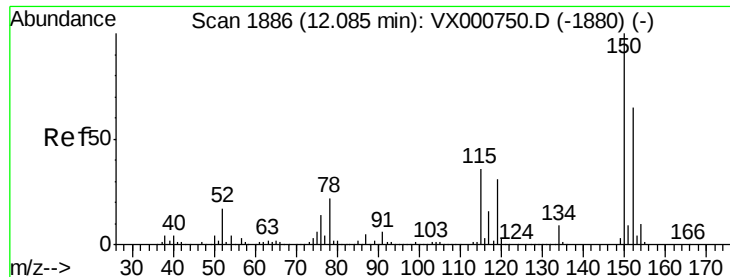
Tot Ion:117 Resp: 336298
Ion Ratio Lower Upper
117 100
82 50.9 41.9 62.9
119 32.1 26.0 39.0



#64
Tetrachloroethene
Concen: 0.238 ug/l
RT: 9.34 min Scan# 1436
Delta R.T. -0.00 min
Lab File: VX000975.D
Acq: 17 Apr 2018 19:49

Tgt Ion:164 Resp: 782
Ion Ratio Lower Upper
164 100
166 113.1 102.8 154.2
129 79.9 68.5 102.7
131 74.0 66.6 100.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1886

Delta R.T. -0.00 min

Lab File: VX000975.D

Acq: 17 Apr 2018 19:49

Instrument :

MSVOA_X

ClientSampleId :

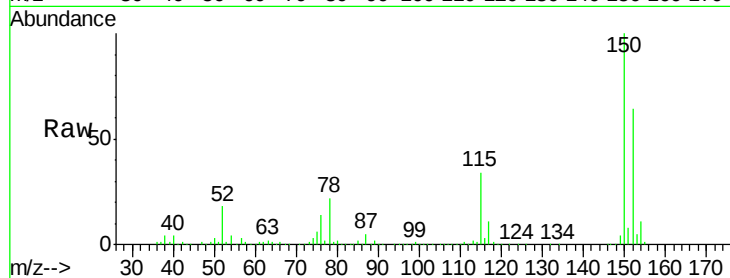
Tot Ion:152 Resp: 216164

Ion Ratio Lower Upper

152 100

115 53.3 37.9 113.7

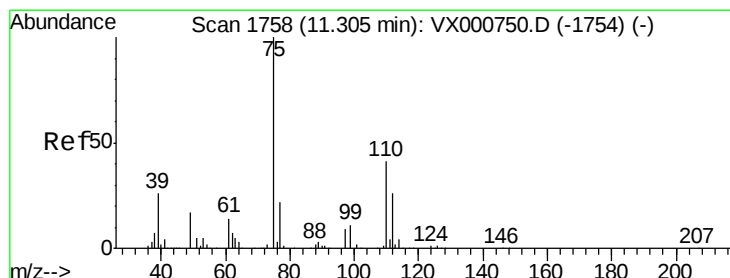
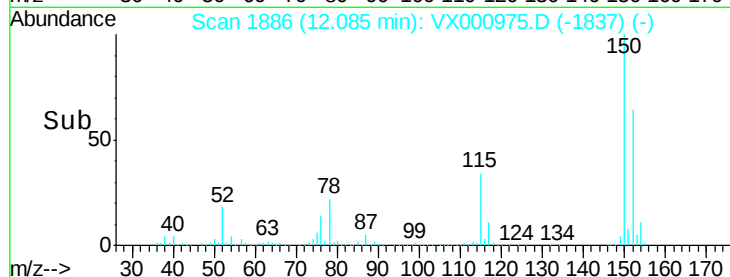
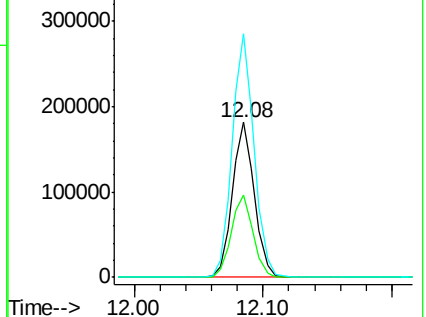
150 156.2 0.0 348.0



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: 26.113 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX000975.D

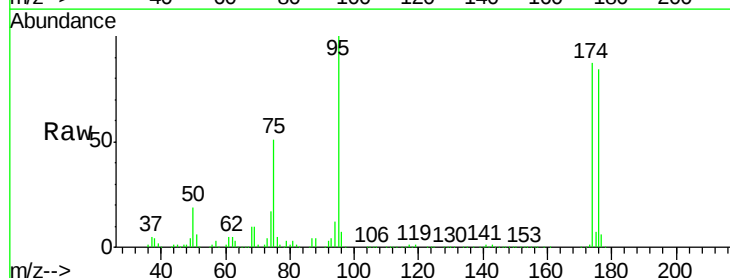
Acq: 17 Apr 2018 19:49

Tgt Ion: 75 Resp: 97347

Ion Ratio Lower Upper

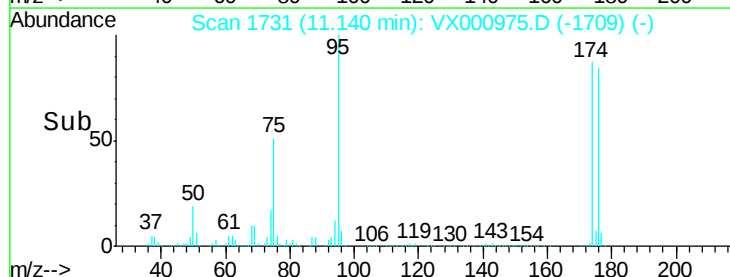
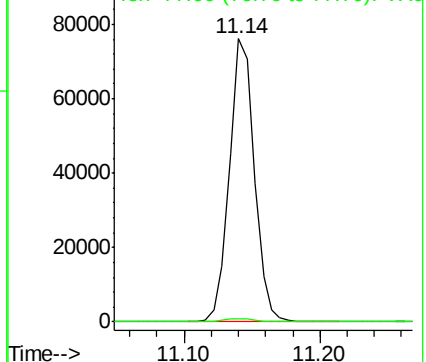
75 100

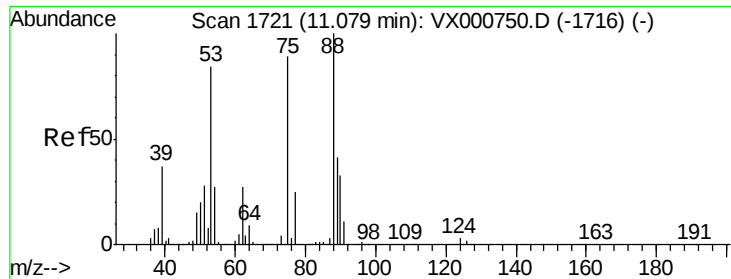
77 1.2 20.5 61.5#



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: 71.830 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX000975.D

Acq: 17 Apr 2018 19:49

Instrument :

MSVOA_X

ClientSampleId :

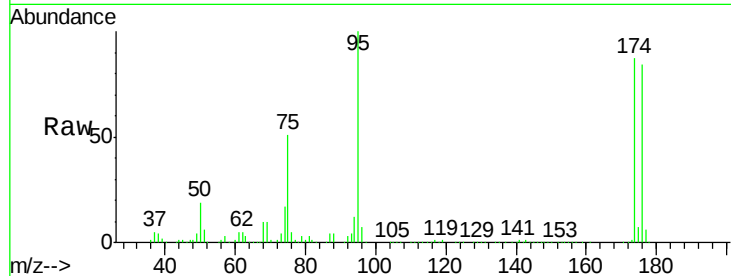
Tot Ion: 75 Resp: 97347

Ion Ratio Lower Upper

75 100

53 0.0 75.4 113.0#

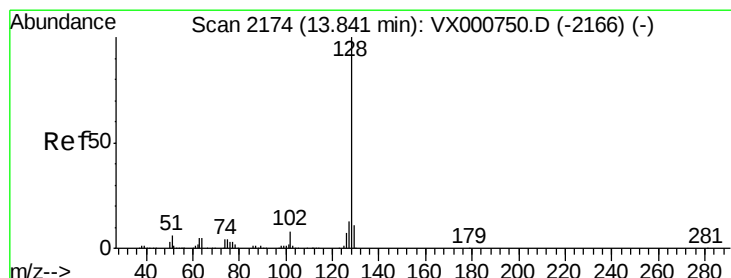
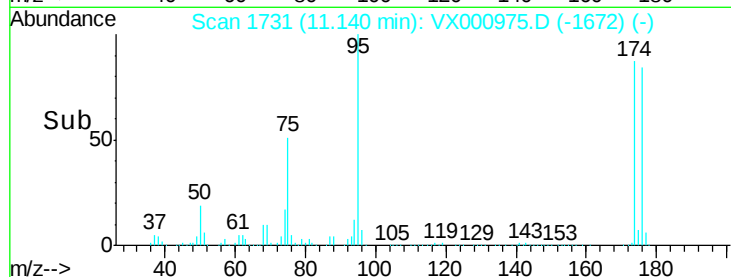
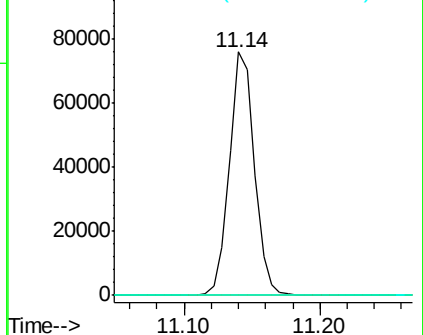
89 0.0 40.9 61.3#



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



#95

Naphthalene

Concen: 2.518 ug/l

RT: 13.84 min Scan# 2174

Delta R.T. -0.00 min

Lab File: VX000975.D

Acq: 17 Apr 2018 19:49

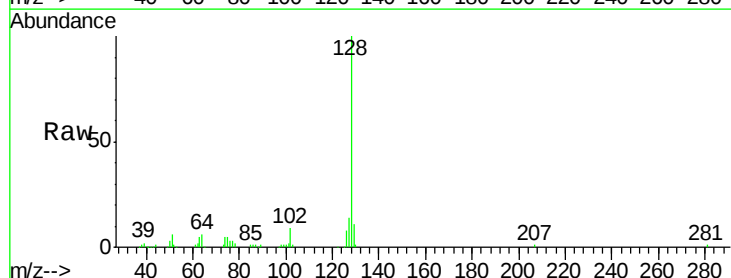
Tgt Ion: 128 Resp: 39612

Ion Ratio Lower Upper

128 100

127 14.0 10.4 15.6

129 11.0 8.7 13.1



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

