

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX062918\
 Data File : VX003037.D
 Acq On : 29 Jun 2018 18:58
 Operator : JC/MD
 Sample : J3694-06
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jun 29 23:30:30 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X062518W.M
 Quant Title : SW846 8260
 QLast Update : Mon Jun 25 14:38:05 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	268199	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	372914	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	348249	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	200806	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	178092	48.04	ug/l	0.00
Spiked Amount			Recovery	=	96.08%	
35) Dibromofluoromethane	5.51	113	144712	49.00	ug/l	0.00
Spiked Amount			Recovery	=	98.00%	
50) Toluene-d8	8.72	98	525773	48.75	ug/l	0.00
Spiked Amount			Recovery	=	97.50%	
62) 4-Bromofluorobenzene	11.14	95	186451	44.83	ug/l	0.00
Spiked Amount			Recovery	=	89.66%	

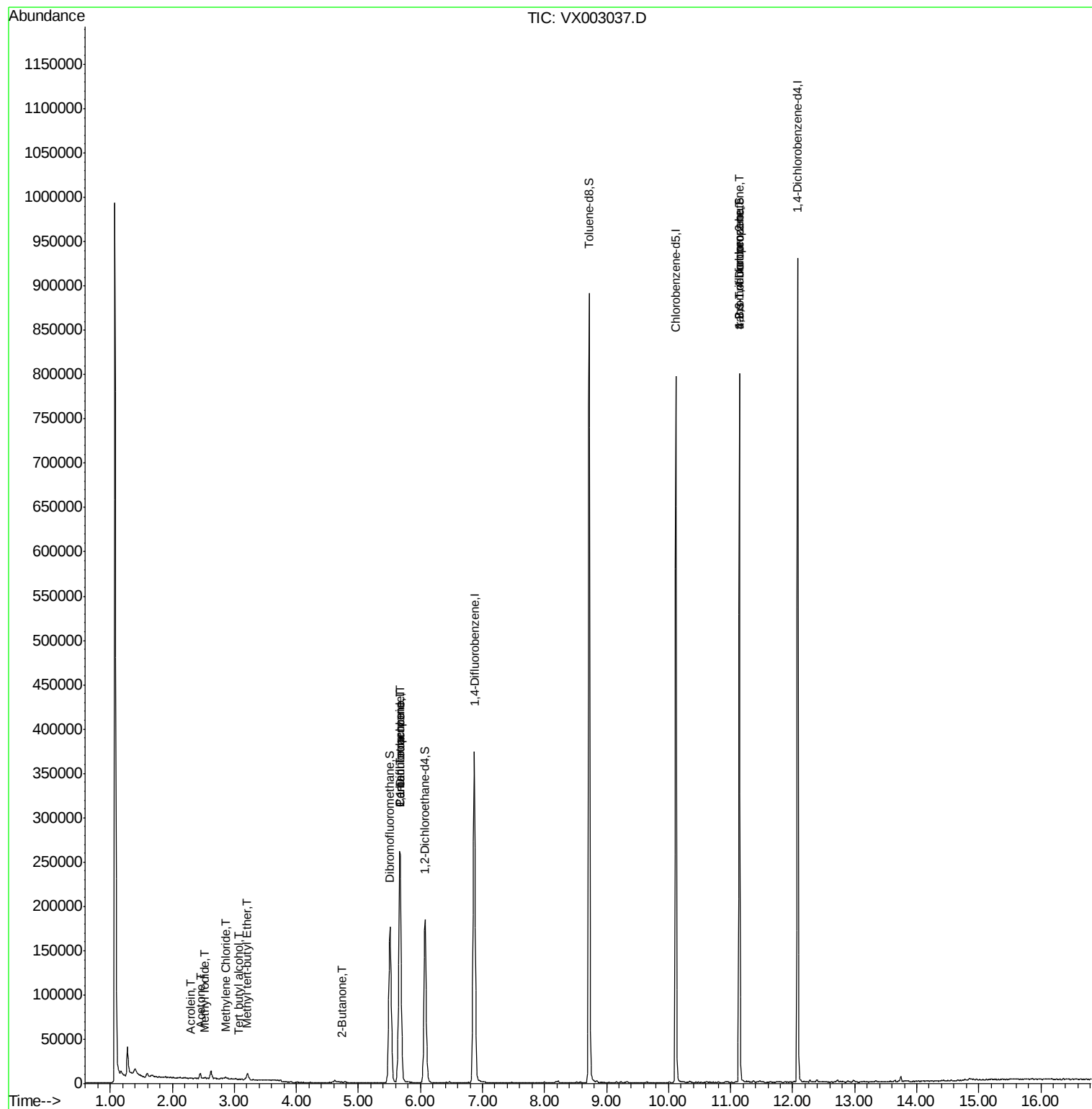
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.20	85	124	Below Cal	#	43
3) Chloromethane	1.32	50	805	Below Cal	#	37
5) Bromomethane	1.67	94	1476	Below Cal		98
6) Chloroethane	1.71	64	1176	Below Cal	#	49
10) Methyl Iodide	2.52	142	1105	6.55	ug/l #	93
11) Tert butyl alcohol	3.06	59	331	0.45	ug/l #	47
13) Acrolein	2.29	56	192	4.69	ug/l #	1
16) Acetone	2.45	43	6386	4.16	ug/l	98
19) Methyl tert-butyl Ether	3.21	73	7769	0.82	ug/l	95
20) Methylene Chloride	2.86	84	762	0.26	ug/l	86
25) 2-Butanone	4.72	43	713	0.31	ug/l #	90
36) 1,1-Dichloropropene	5.67	75	17372	4.25	ug/l #	50
38) Carbon Tetrachloride	5.67	117	24379	5.43	ug/l #	17
76) 1,2,3-Trichloropropane	11.14	75	95357	26.22	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.14	75	95357	74.31	ug/l #	7

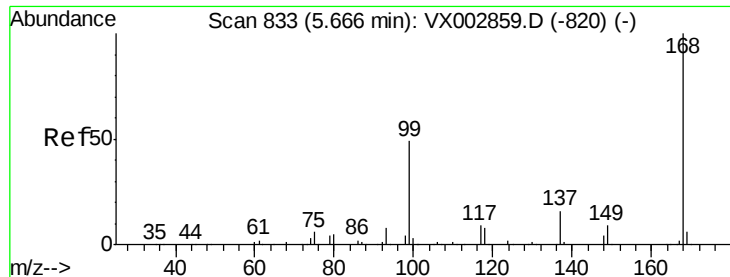
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.00 min

Lab File: VX003037.D

Acq: 29 Jun 2018 18:58

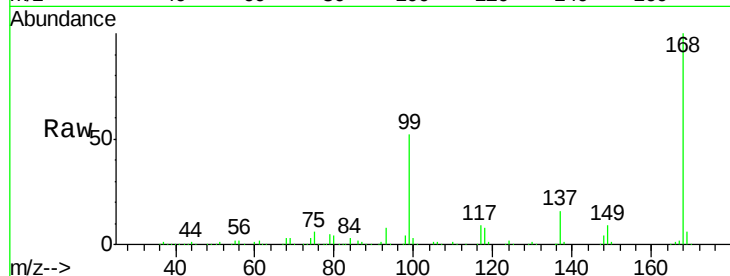
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:168 Resp: 268199

Ion Ratio Lower Upper

168 100

99 51.6 39.3 58.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

100000

80000

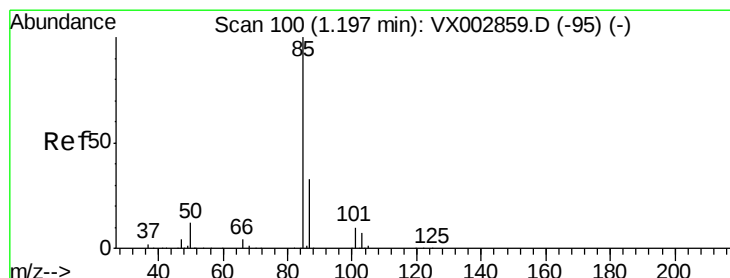
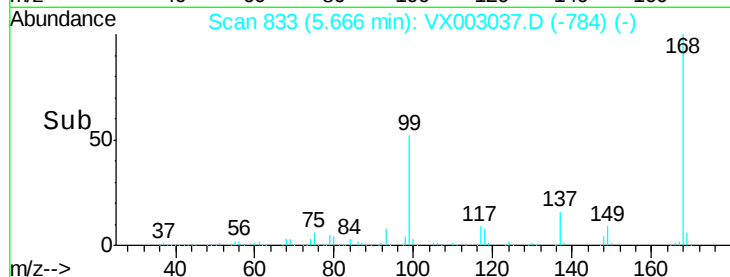
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.20 min Scan# 101

Delta R.T. 0.01 min

Lab File: VX003037.D

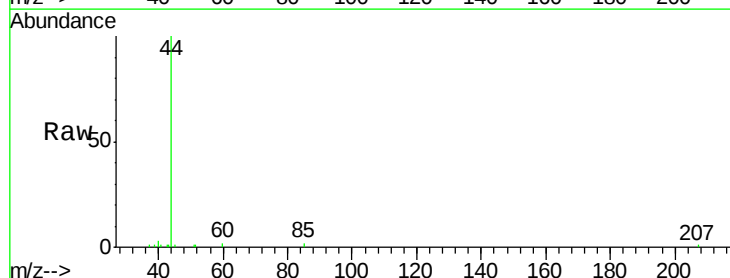
Acq: 29 Jun 2018 18:58

Tgt Ion: 85 Resp: 124

Ion Ratio Lower Upper

85 100

87 0.0 16.0 47.9#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.20

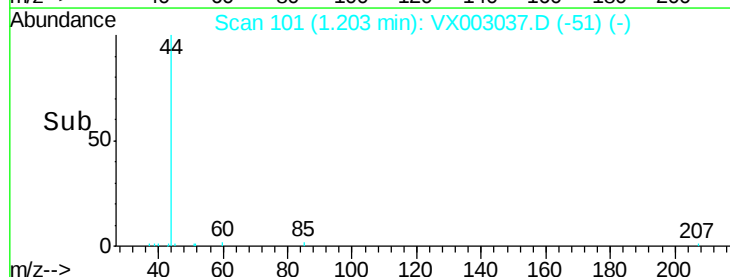
150

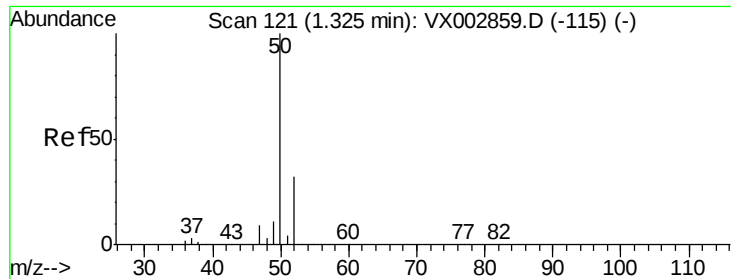
100

50

0

Time--> 1.18 1.20 1.22





#3

Chloromethane

Concen: Below Cal

RT: 1.32 min Scan# 121

Delta R.T. 0.00 min

Lab File: VX003037.D

Acq: 29 Jun 2018 18:58

Instrument :

MSVOA_X

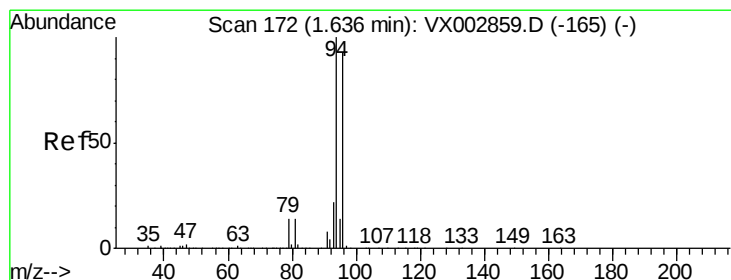
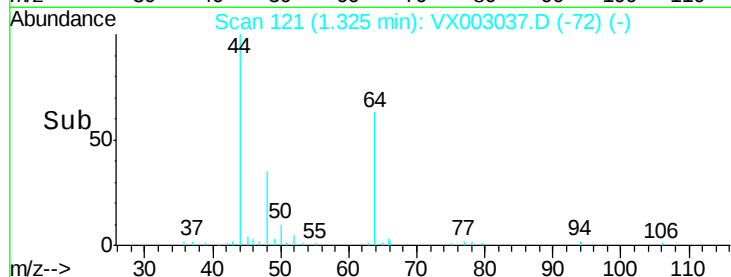
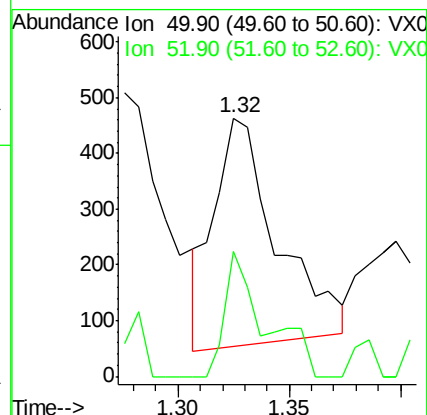
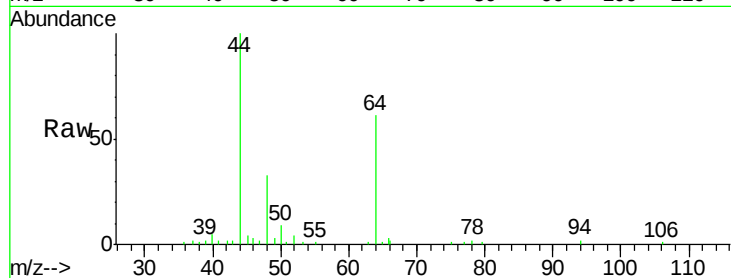
ClientSampled :

Tot Ion: 50 Resp: 805

Ion Ratio Lower Upper

50 100

52 67.2 25.7 38.5#



#5

Bromomethane

Concen: Below Cal

RT: 1.67 min Scan# 177

Delta R.T. 0.03 min

Lab File: VX003037.D

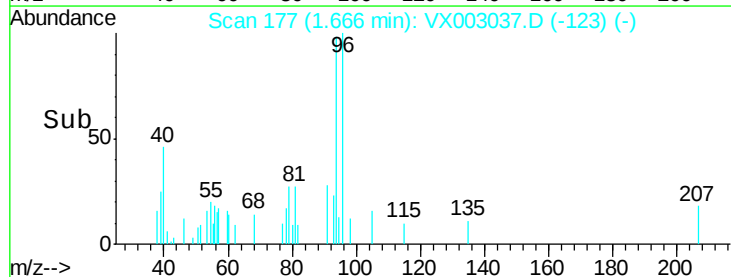
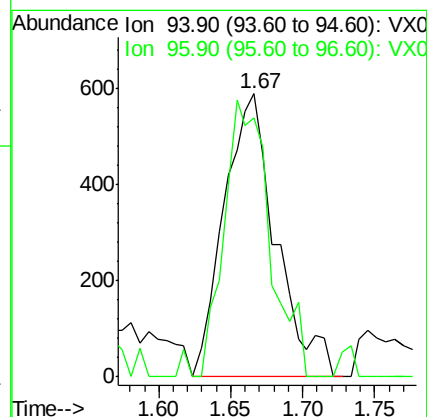
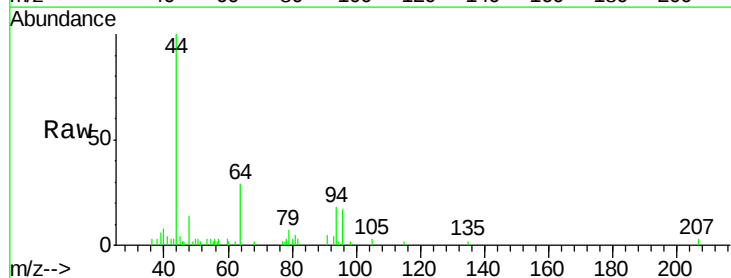
Acq: 29 Jun 2018 18:58

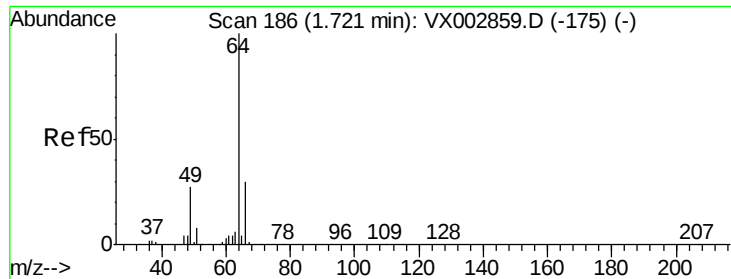
Tgt Ion: 94 Resp: 1476

Ion Ratio Lower Upper

94 100

96 91.5 74.9 112.3





#6

Chloroethane

Concen: Below Cal

RT: 1.71 min Scan# 184

Delta R.T. -0.01 min

Lab File: VX003037.D

Acq: 29 Jun 2018 18:58

Instrument :

MSVOA_X

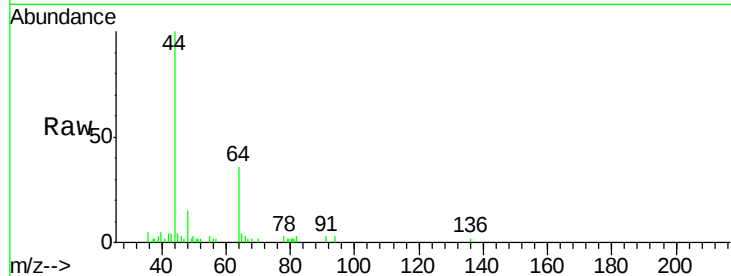
ClientSampleId :

Tot Ion: 64 Resp: 1176

Ion Ratio Lower Upper

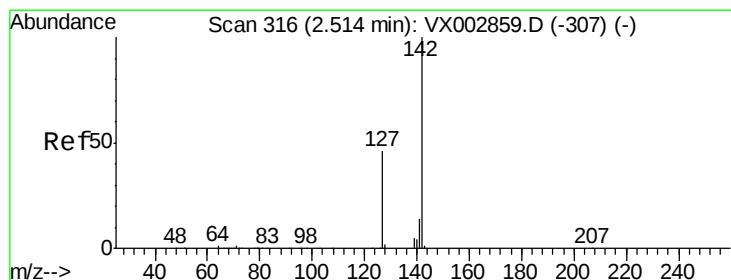
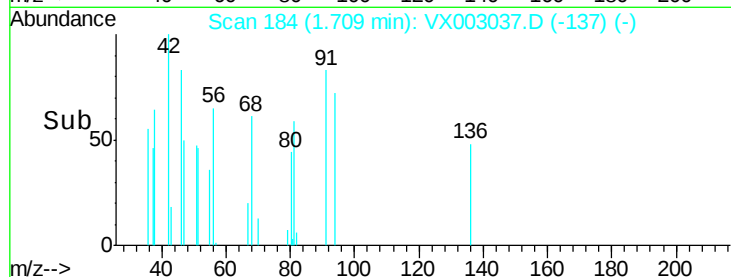
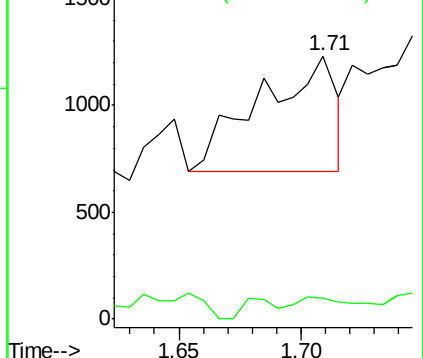
64 100

66 3.5 25.5 38.3#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



#10

Methyl Iodide

Concen: 6.55 ug/l

RT: 2.52 min Scan# 317

Delta R.T. 0.01 min

Lab File: VX003037.D

Acq: 29 Jun 2018 18:58

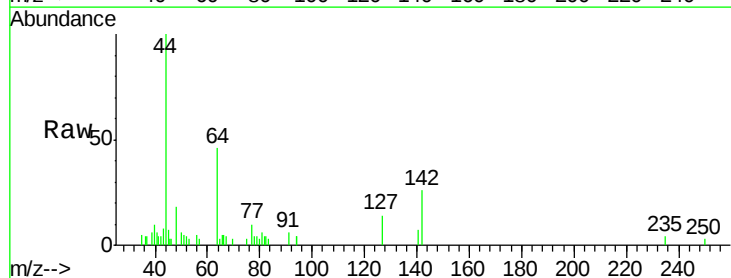
Tgt Ion:142 Resp: 1105

Ion Ratio Lower Upper

142 100

127 50.0 36.6 55.0

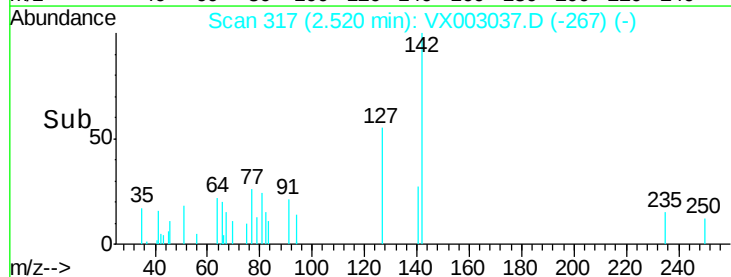
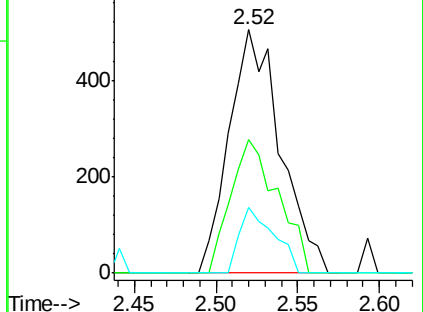
141 18.0 11.3 16.9#

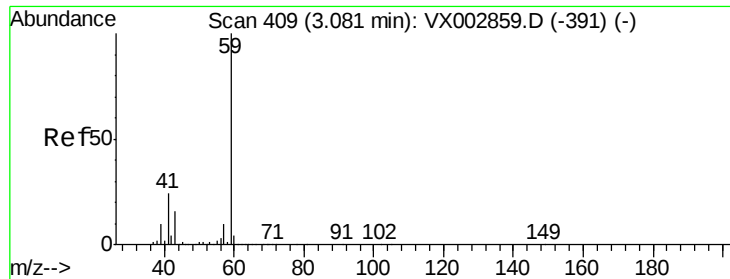


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

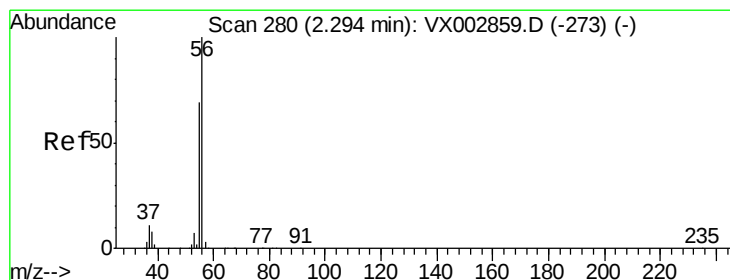
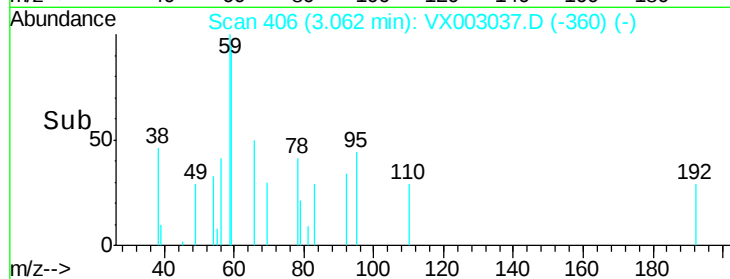
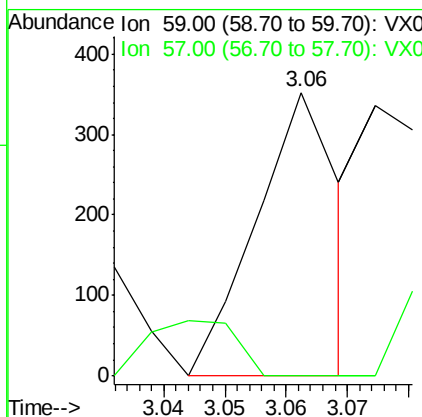
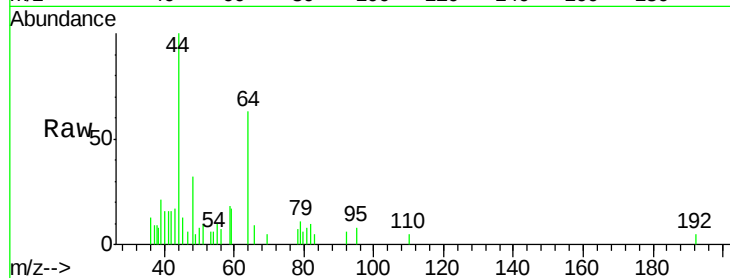




#11
Tert butyl alcohol
Concen: 0.45 ug/l
RT: 3.06 min Scan# 406
Delta R.T. -0.02 min
Lab File: VX003037.D
Acq: 29 Jun 2018 18:58

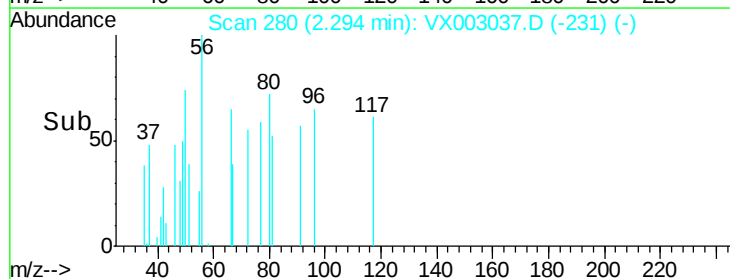
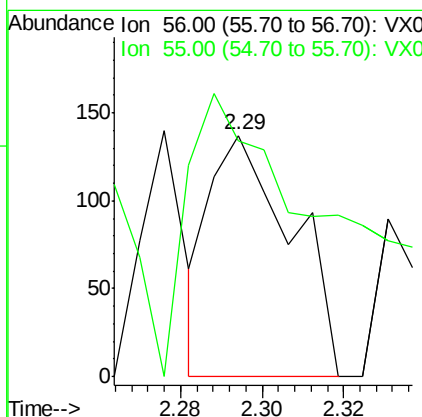
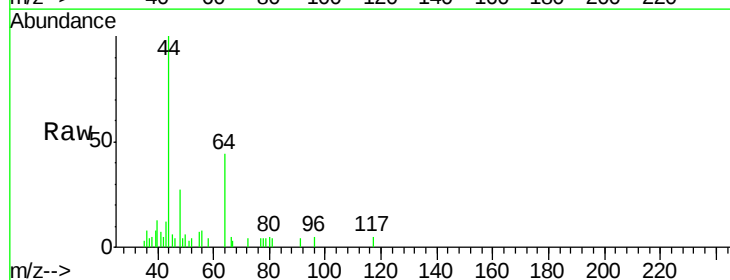
Instrument :
MSVOA_X
ClientSampled :

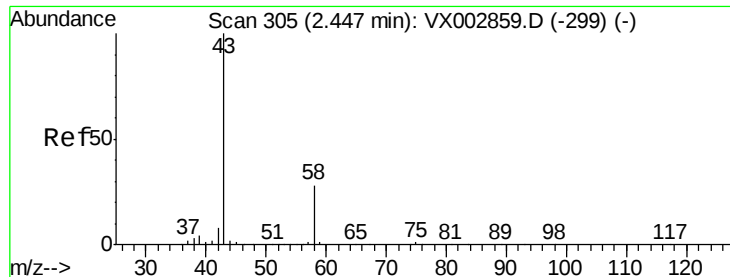
Tot Ion: 59 Resp: 331
Ion Ratio Lower Upper
59 100
57 29.9 8.2 12.2#



#13
Acrolein
Concen: 4.69 ug/l
RT: 2.29 min Scan# 280
Delta R.T. 0.00 min
Lab File: VX003037.D
Acq: 29 Jun 2018 18:58

Tgt Ion: 56 Resp: 192
Ion Ratio Lower Upper
56 100
55 214.6 57.0 85.4#





#16

Acetone

Concen: 4.16 ug/l

RT: 2.45 min Scan# 306

Delta R.T. 0.01 min

Lab File: VX003037.D

Acq: 29 Jun 2018 18:58

Instrument :

MSVOA_X

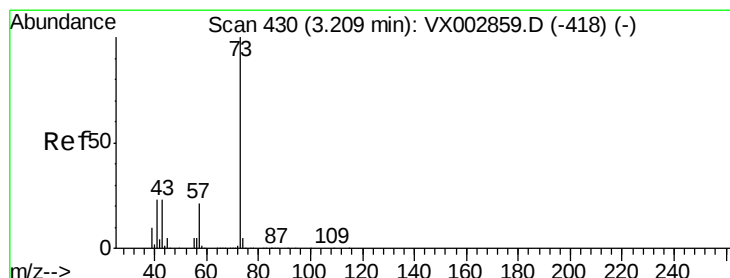
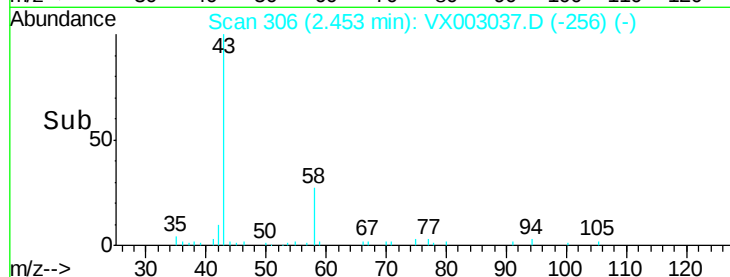
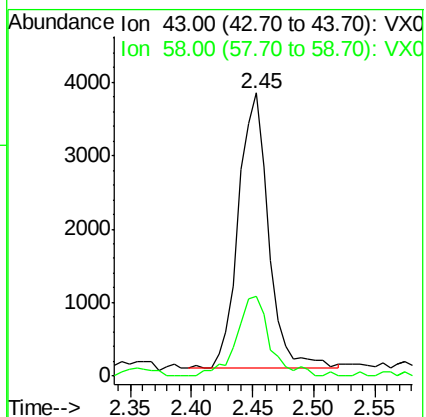
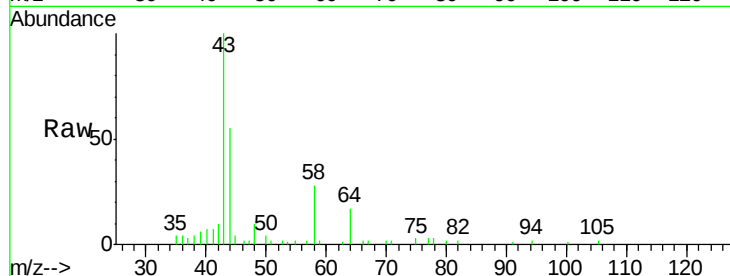
ClientSampleId :

Tot Ion: 43 Resp: 6386

Ion Ratio Lower Upper

43 100

58 28.8 22.1 33.1



#19

Methyl tert-butyl Ether

Concen: 0.82 ug/l

RT: 3.21 min Scan# 431

Delta R.T. 0.01 min

Lab File: VX003037.D

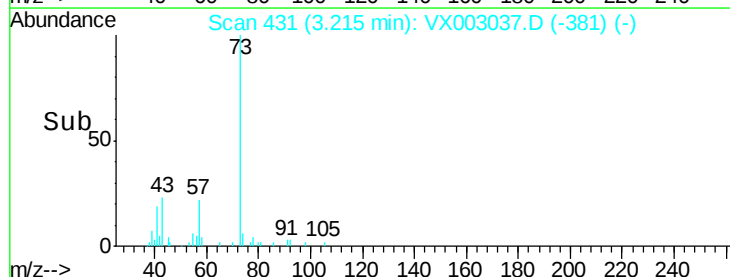
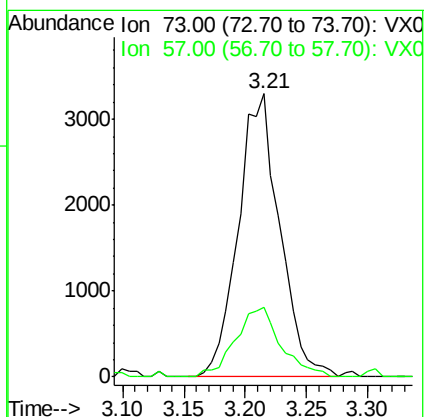
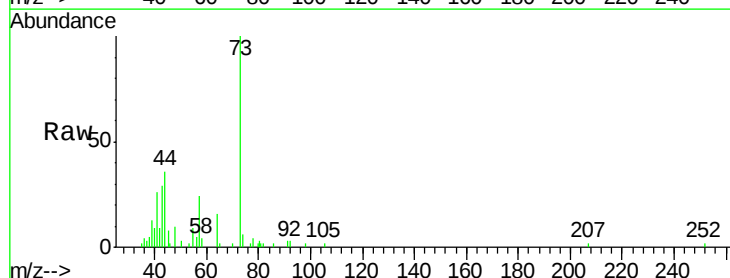
Acq: 29 Jun 2018 18:58

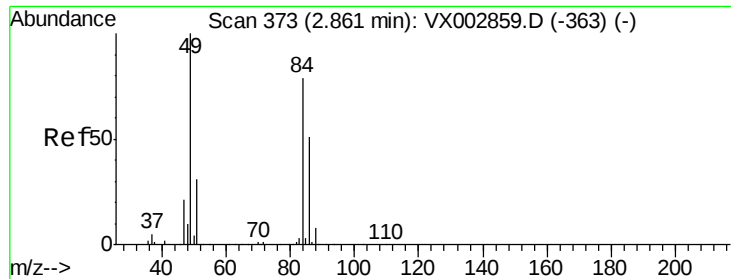
Tgt Ion: 73 Resp: 7769

Ion Ratio Lower Upper

73 100

57 24.5 17.7 26.5

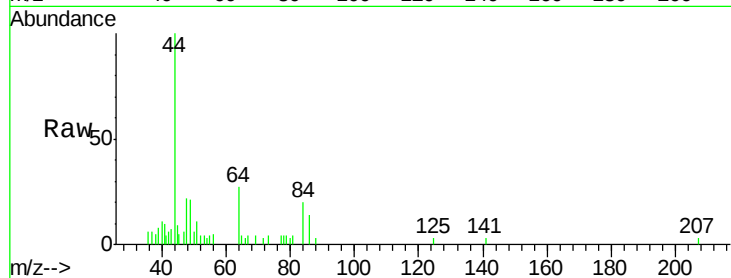




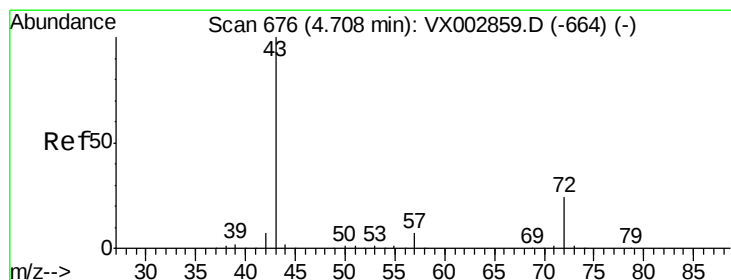
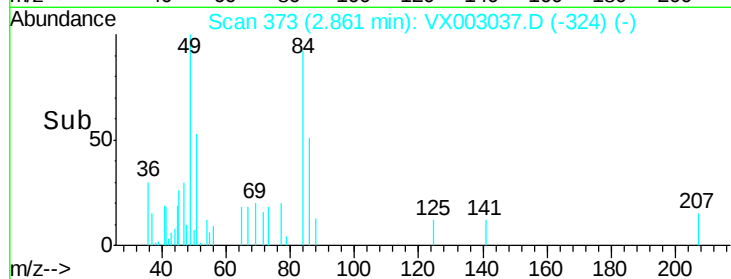
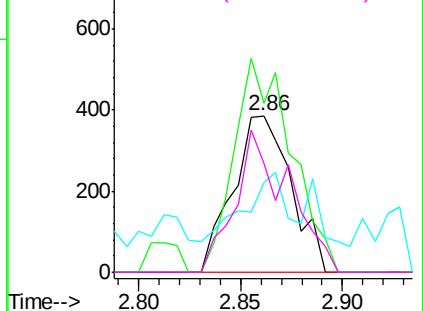
#20
Methylene Chloride
Concen: 0.26 ug/l
RT: 2.86 min Scan# 373
Delta R.T. 0.00 min
Lab File: VX003037.D
Acq: 29 Jun 2018 18:58

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:	84	Resp:	762
Ion	Ratio	Lower	Upper
84	100		
49	108.3	107.8	161.6
51	37.8	32.8	49.2
86	69.2	52.5	78.7

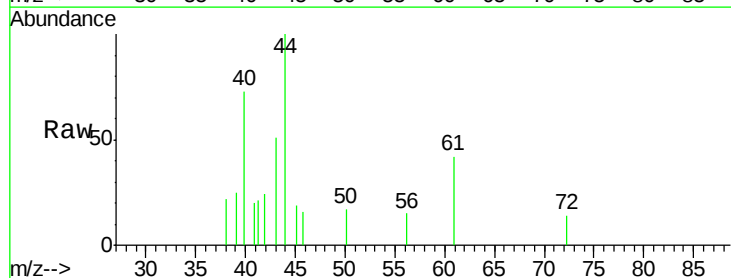


Abundance Ion 83.90 (83.60 to 84.60): VX0
Ion 48.90 (48.60 to 49.60): VX0
Ion 50.90 (50.60 to 51.60): VX0
Ion 85.90 (85.60 to 86.60): VX0

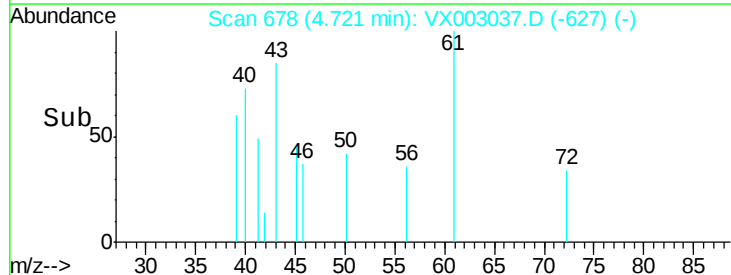
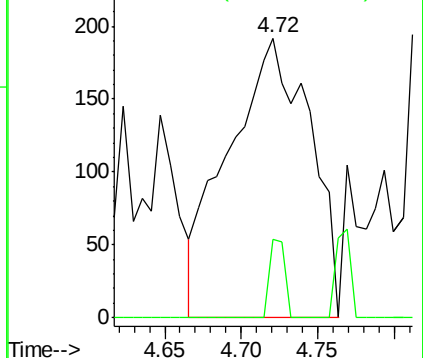


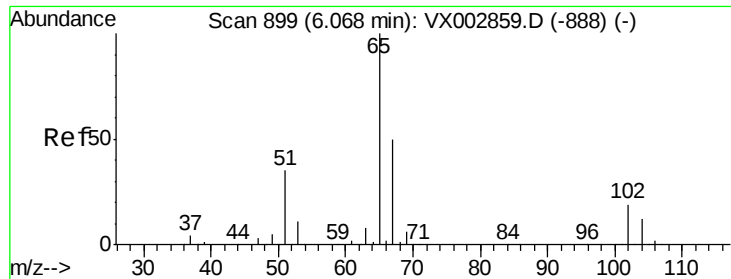
#25
2-Butanone
Concen: 0.31 ug/l
RT: 4.72 min Scan# 678
Delta R.T. 0.01 min
Lab File: VX003037.D
Acq: 29 Jun 2018 18:58

Tgt Ion:	43	Resp:	713
Ion	Ratio	Lower	Upper
43	100		
72	28.1	18.5	27.7#



Abundance Ion 43.00 (42.70 to 43.70): VX0
Ion 72.00 (71.70 to 72.70): VX0

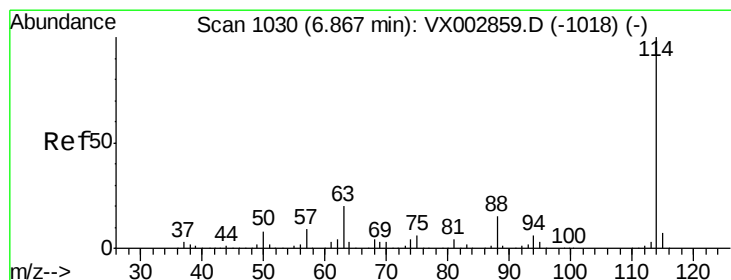
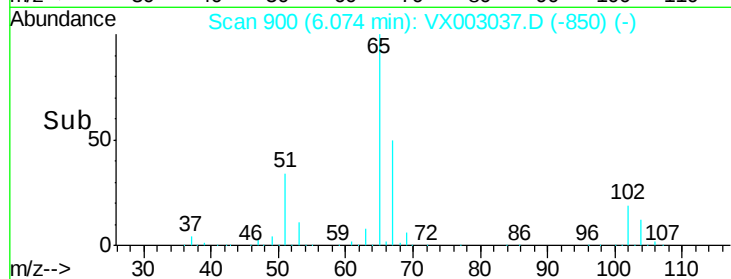
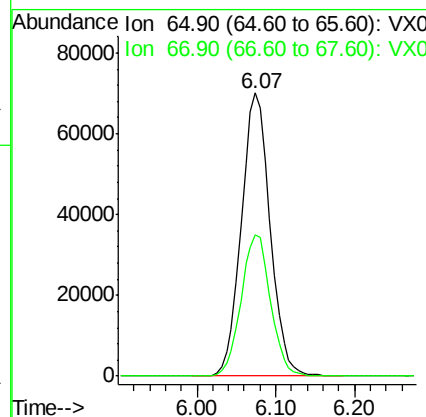
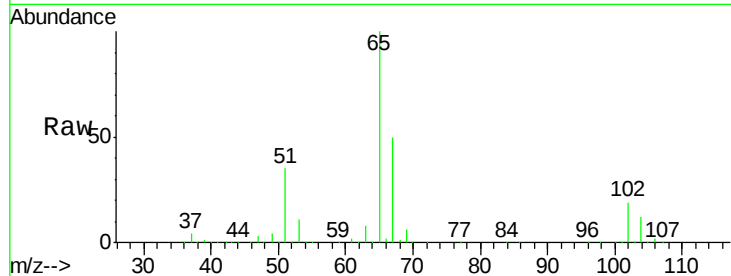




#33
 1,2-Dichloroethane-d4
 Concen: 48.04 ug/l
 RT: 6.07 min Scan# 900
 Delta R.T. 0.01 min
 Lab File: VX003037.D
 Acq: 29 Jun 2018 18:58

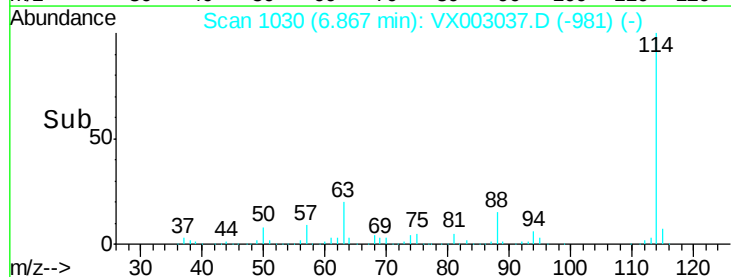
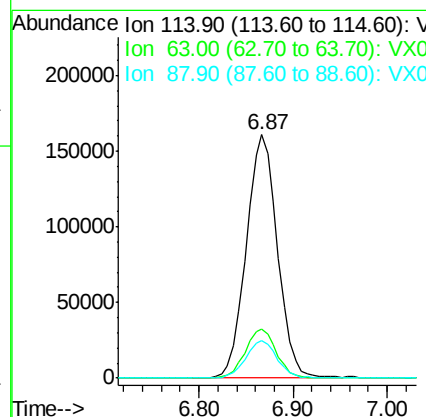
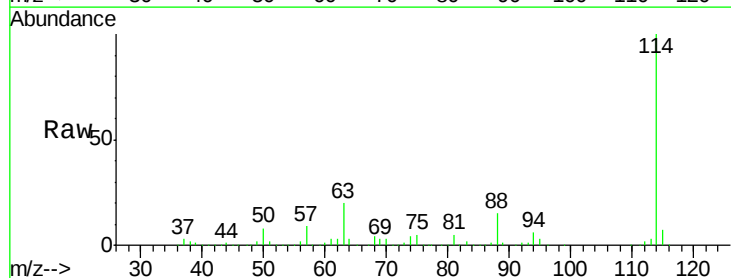
Instrument :
 MSVOA_X
 ClientSampleId :

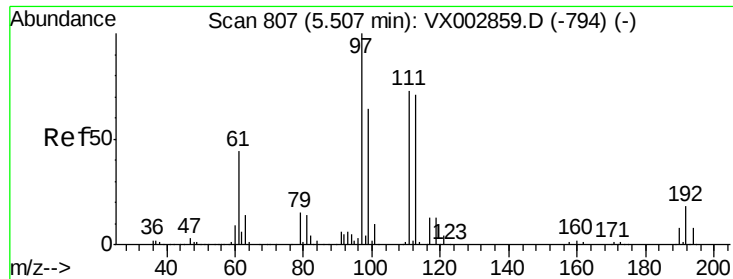
Tot Ion: 65 Resp: 178092
 Ion Ratio Lower Upper
 65 100
 67 50.9 0.0 102.6



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.87 min Scan# 1030
 Delta R.T. 0.00 min
 Lab File: VX003037.D
 Acq: 29 Jun 2018 18:58

Tgt Ion: 114 Resp: 372914
 Ion Ratio Lower Upper
 114 100
 63 20.2 0.0 41.4
 88 15.3 0.0 30.0





#35

Dibromofluoromethane

Concen: 49.00 ug/l

RT: 5.51 min Scan# 807

Delta R.T. 0.00 min

Lab File: VX003037.D

Acq: 29 Jun 2018 18:58

Instrument :
MSVOA_X
ClientSampleId :

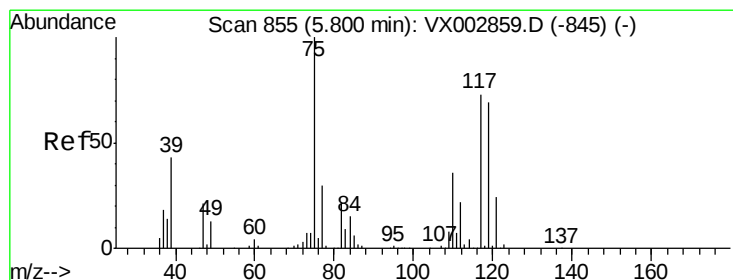
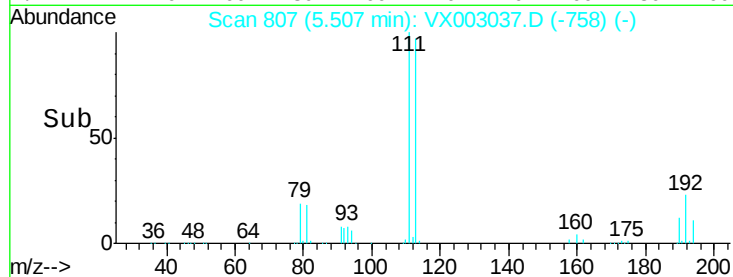
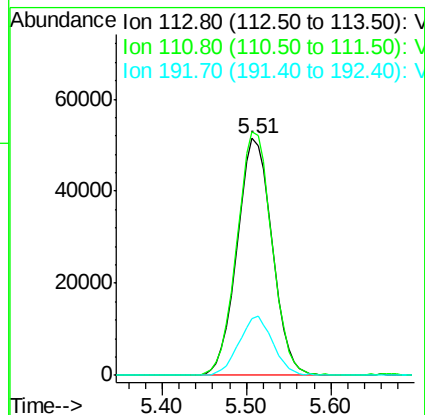
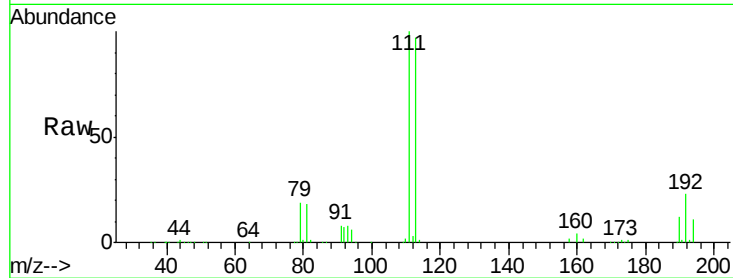
Tot Ion:113 Resp: 144712

Ion Ratio Lower Upper

113 100

111 102.5 81.4 122.0

192 24.2 19.1 28.7



#36

1,1-Dichloropropene

Concen: 4.25 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.13 min

Lab File: VX003037.D

Acq: 29 Jun 2018 18:58

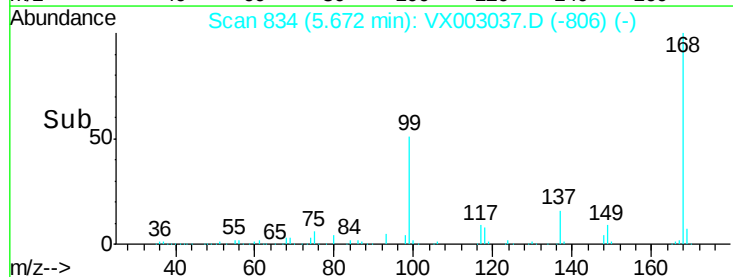
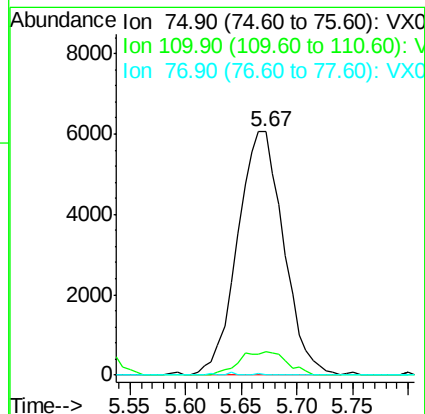
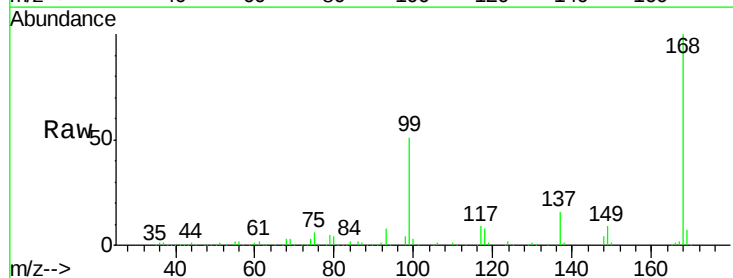
Tgt Ion: 75 Resp: 17372

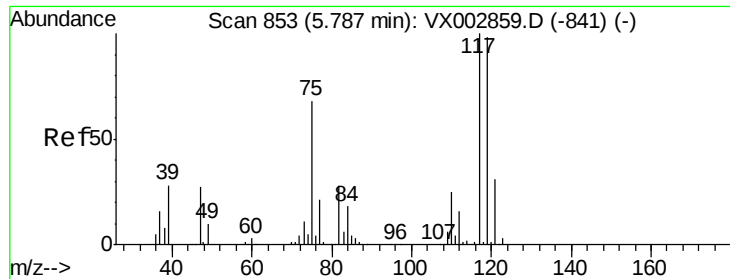
Ion Ratio Lower Upper

75 100

110 10.0 18.1 54.4#

77 0.1 24.3 36.5#

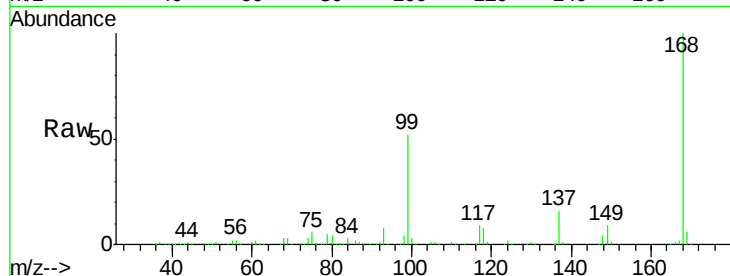




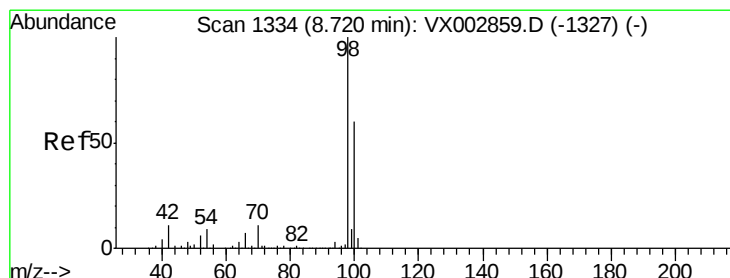
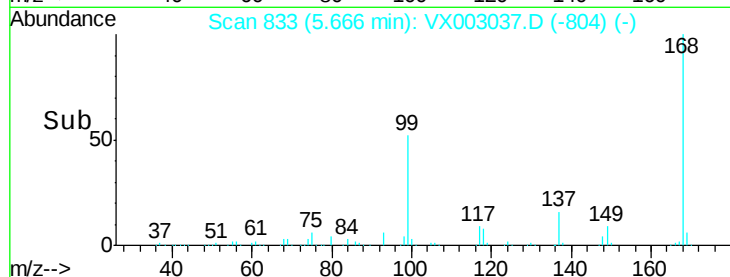
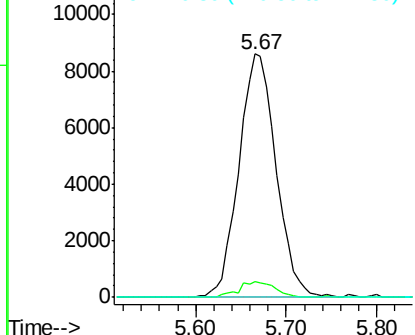
#38
Carbon Tetrachloride
Concen: 5.43 ug/l
RT: 5.67 min Scan# 833
Delta R.T. -0.12 min
Lab File: VX003037.D
Acq: 29 Jun 2018 18:58

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:117 Resp: 24379
Ion Ratio Lower Upper
117 100
119 6.5 77.4 116.0#
121 0.0 24.4 36.6#

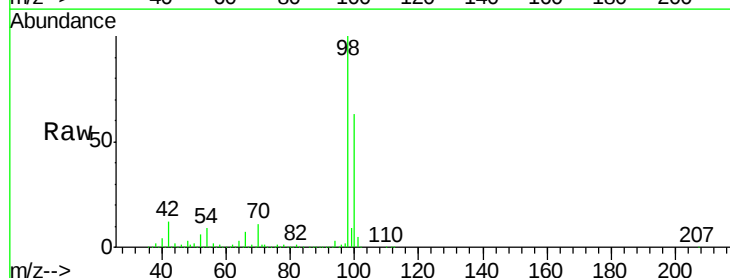


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

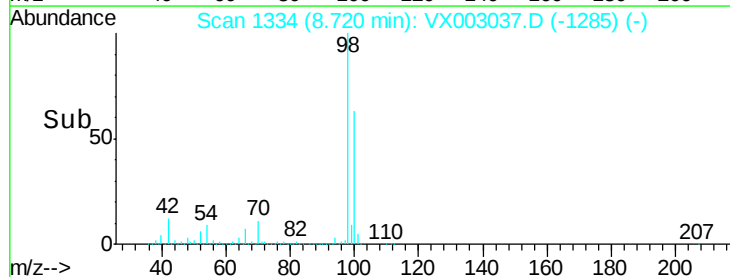
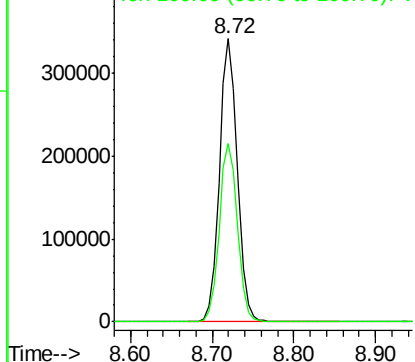


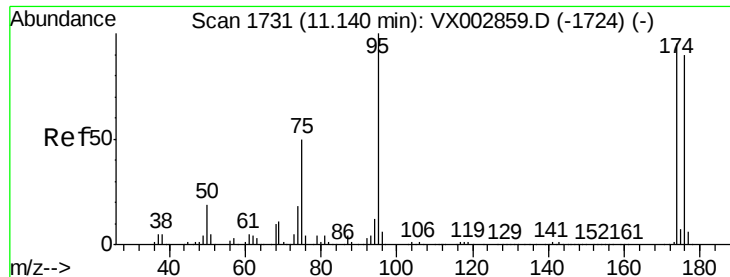
#50
Toluene-d8
Concen: 48.75 ug/l
RT: 8.72 min Scan# 1334
Delta R.T. 0.00 min
Lab File: VX003037.D
Acq: 29 Jun 2018 18:58

Tgt Ion: 98 Resp: 525773
Ion Ratio Lower Upper
98 100
100 63.7 50.9 76.3



Abundance Ion 98.00 (97.70 to 98.70): VX0
Ion 100.00 (99.70 to 100.70): V

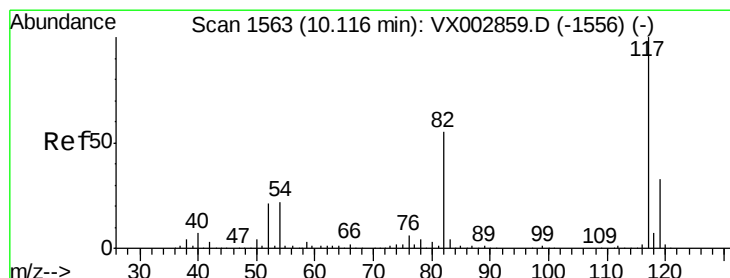
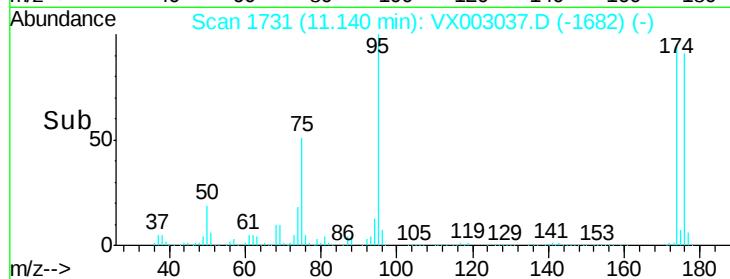
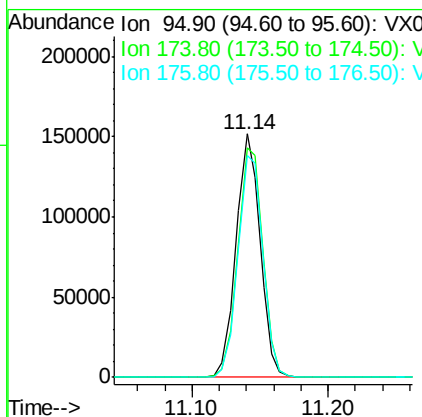
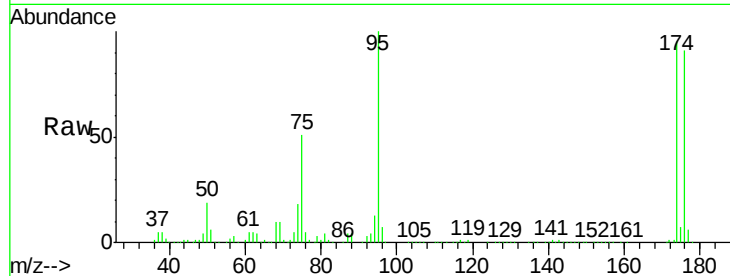




#62
4-Bromofluorobenzene
Concen: 44.83 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. 0.00 min
Lab File: VX003037.D
Acq: 29 Jun 2018 18:58

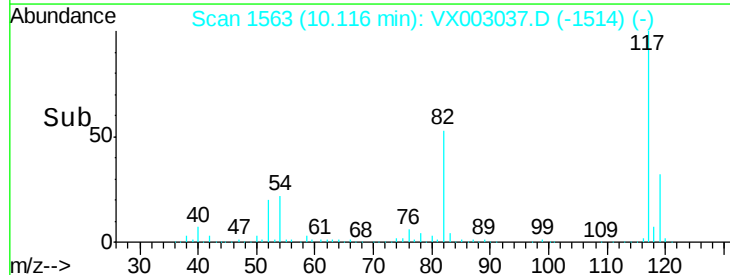
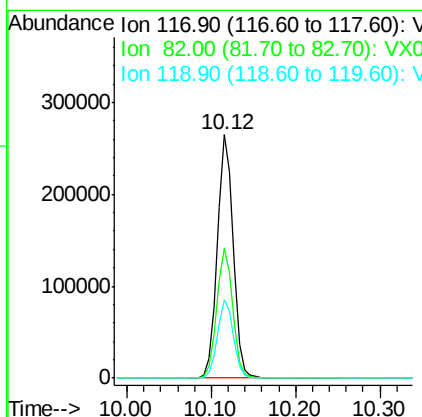
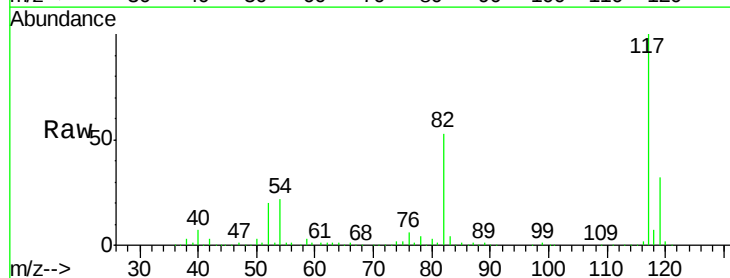
Instrument :
MSVOA_X
ClientSampleId :

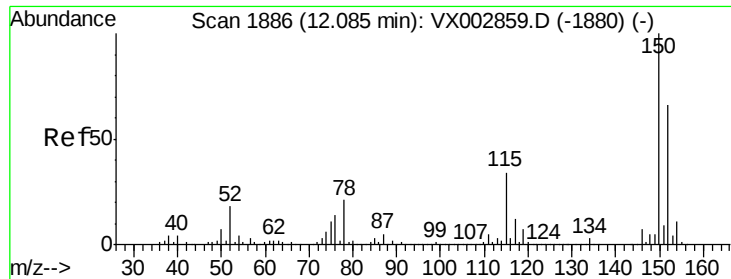
Tot Ion: 95 Resp: 186451
Ion Ratio Lower Upper
95 100
174 98.6 0.0 187.4
176 94.9 0.0 181.0



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. 0.00 min
Lab File: VX003037.D
Acq: 29 Jun 2018 18:58

Tgt Ion: 117 Resp: 348249
Ion Ratio Lower Upper
117 100
82 53.4 45.0 67.4
119 32.2 25.8 38.6





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.09 min Scan# 1886

Delta R.T. -0.00 min

Lab File: VX003037.D

Acq: 29 Jun 2018 18:58

Instrument :

MSVOA_X

ClientSampleId :

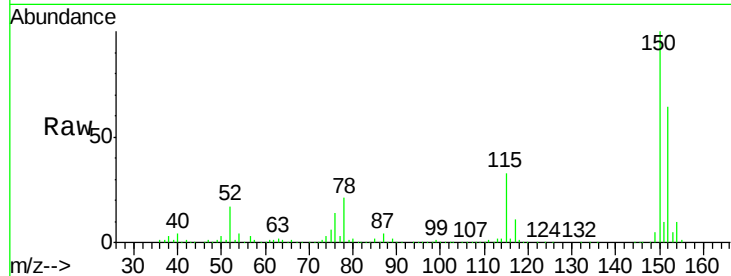
Tot Ion:152 Resp: 200806

Ion Ratio Lower Upper

152 100

115 54.1 40.1 120.2

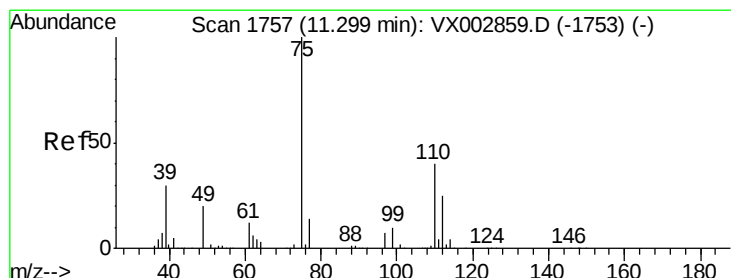
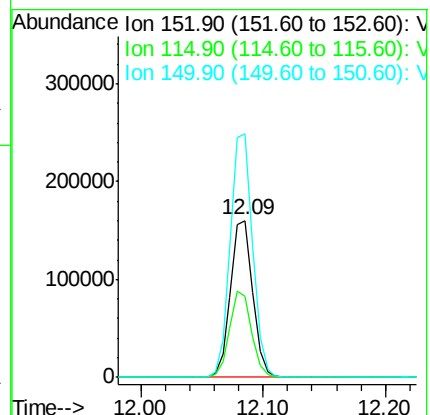
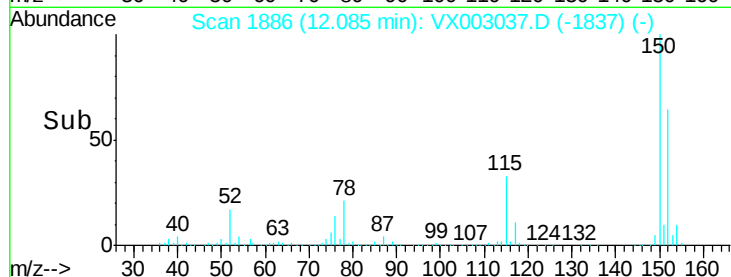
150 156.1 0.0 347.2



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: 26.22 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX003037.D

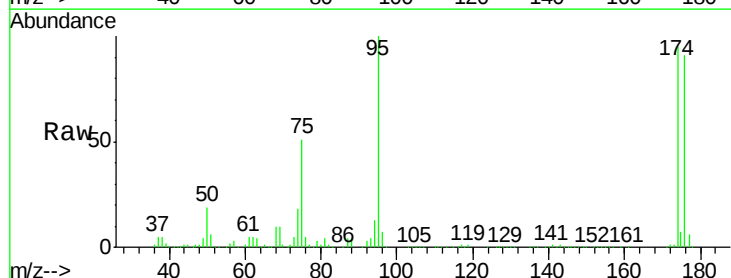
Acq: 29 Jun 2018 18:58

Tgt Ion: 75 Resp: 95357

Ion Ratio Lower Upper

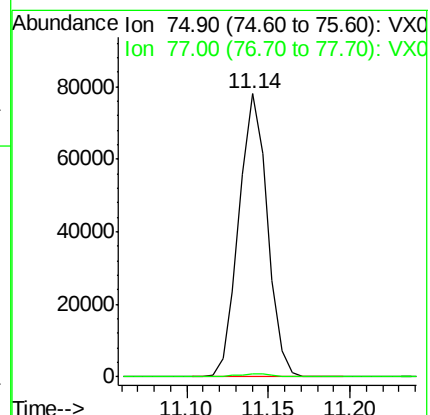
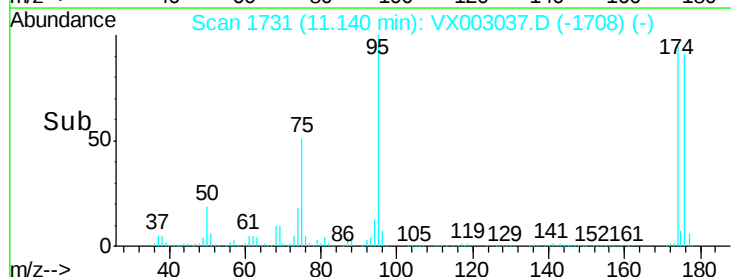
75 100

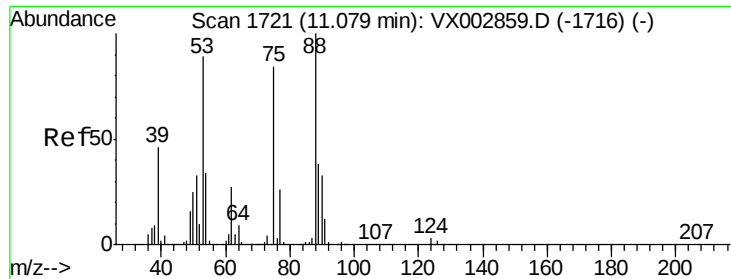
77 1.4 22.8 68.3#



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: 74.31 ug/l
 RT: 11.14 min Scan# 1731
 Delta R.T. 0.06 min
 Lab File: VX003037.D
 Acq: 29 Jun 2018 18:58

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion: 75 Resp: 95357
 Ion Ratio Lower Upper
 75 100
 53 0.2 86.8 130.2#
 89 0.0 38.2 57.2#

