

Data Path : W:\HPCHEM1\MSVOA X\DATA\WX052218\
 Data File : VX001906.D
 Acq On : 22 May 2018 20:58
 Operator : JC/MD
 Sample : PB109525ZHE#13
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: May 23 01:23:40 2018
 Quant Method : W:\HPCHEM1\MSVOA_X\METHOD\82X051518W.M
 Quant Title : SW846 8260
 QLast Update : Tue May 15 01:36:22 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	242052	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	328912	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	279580	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	139556	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	159892	49.28	ug/l	0.00
Spiked Amount			Recovery	=	98.56%	
35) Dibromofluoromethane	5.51	113	130583	47.04	ug/l	0.00
Spiked Amount			Recovery	=	94.08%	
50) Toluene-d8	8.72	98	462814	46.56	ug/l	0.00
Spiked Amount			Recovery	=	93.12%	
62) 4-Bromofluorobenzene	11.14	95	138327	38.65	ug/l	0.00
Spiked Amount			Recovery	=	77.30%	

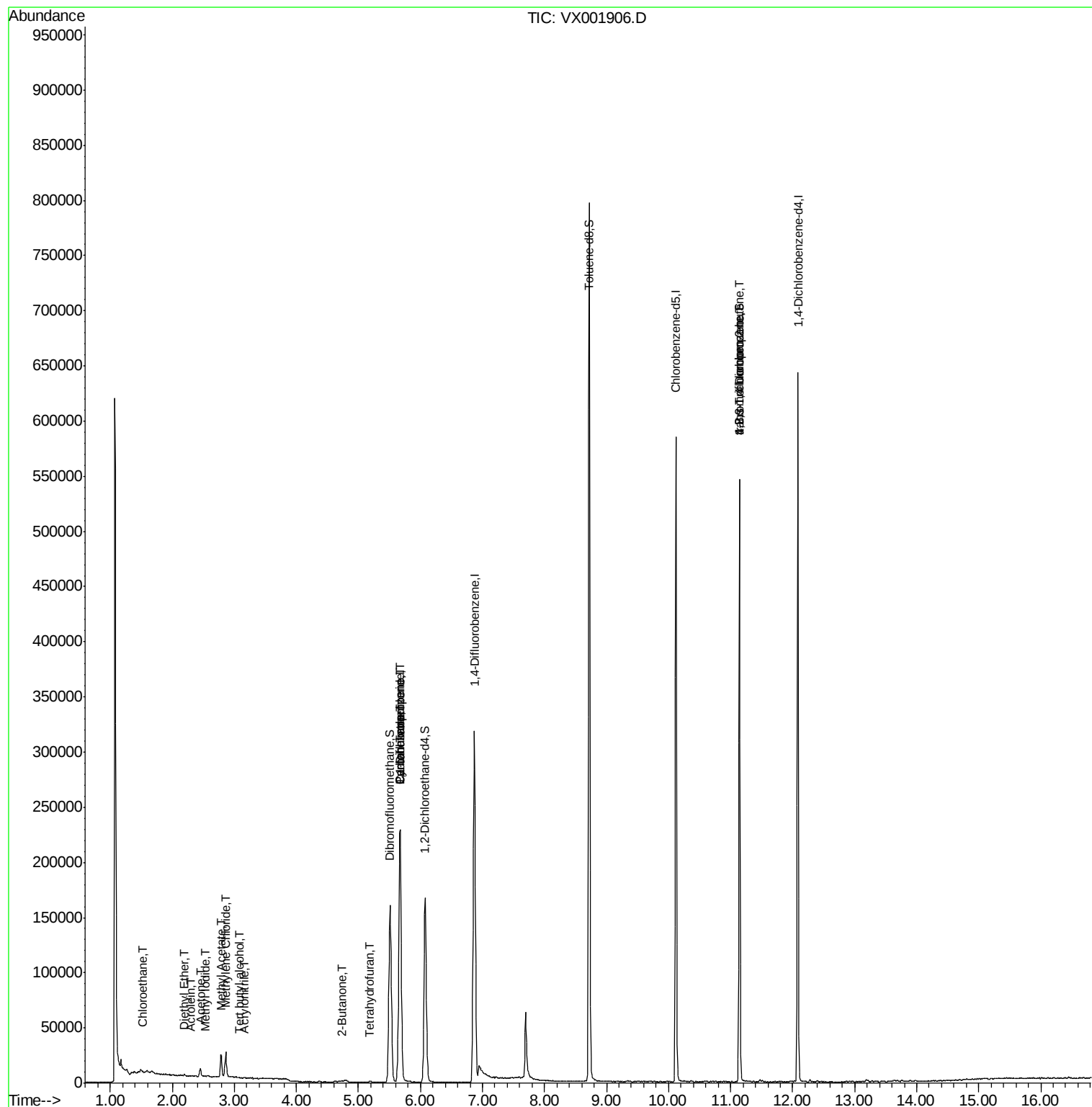
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.65	94	938	Below Cal	#	73
6) Chloroethane	1.53	64	4894	2.74	ug/l #	70
8) Diethyl Ether	2.20	74	410	0.24	ug/l	72
10) Methyl Iodide	2.53	142	506	0.22	ug/l #	64
11) Tert butyl alcohol	3.08	59	324	0.56	ug/l #	72
13) Acrolein	2.30	56	192	0.47	ug/l	100
15) Acrylonitrile	3.16	53	291	0.20	ug/l #	56
16) Acetone	2.45	43	8397	6.59	ug/l	100
18) Methyl Acetate	2.78	43	24769	6.65	ug/l	98
20) Methylene Chloride	2.86	84	10680	3.92	ug/l	98
25) 2-Butanone	4.73	43	2214	1.13	ug/l	100
29) Tetrahydrofuran	5.18	42	972	0.76	ug/l #	85
31) Cyclohexane	5.68	56	4112	1.01	ug/l #	9
36) 1,1-Dichloropropene	5.67	75	14791	3.91	ug/l #	50
38) Carbon Tetrachloride	5.67	117	20626	5.20	ug/l #	16
76) 1,2,3-Trichloropropane	11.14	75	66014	24.88	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.14	75	66014	72.54	ug/l #	10

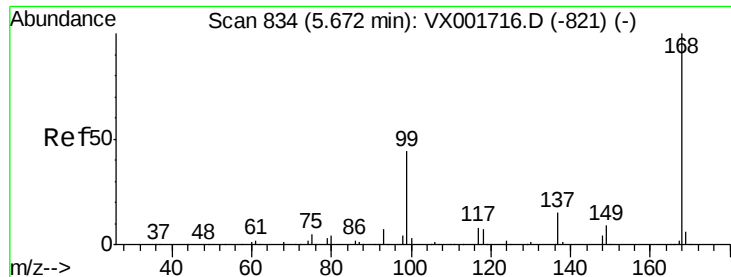
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Tue May 15 01:36:22 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.00 min

Lab File: VX001906.D

Acq: 22 May 2018 20:58

Instrument :

MSVOA_X

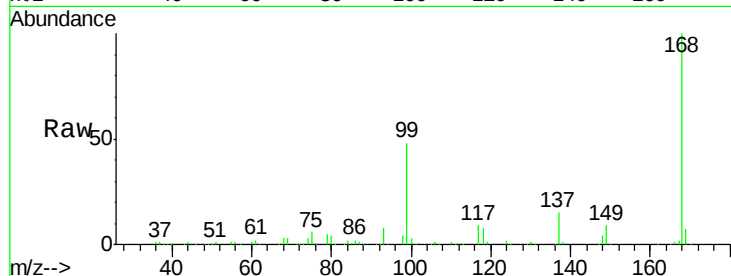
ClientSampleId :

Tot Ion:168 Resp: 242052

Ion Ratio Lower Upper

168 100

99 47.6 35.0 52.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

80000

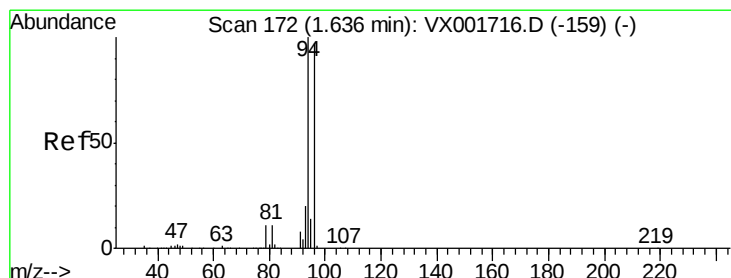
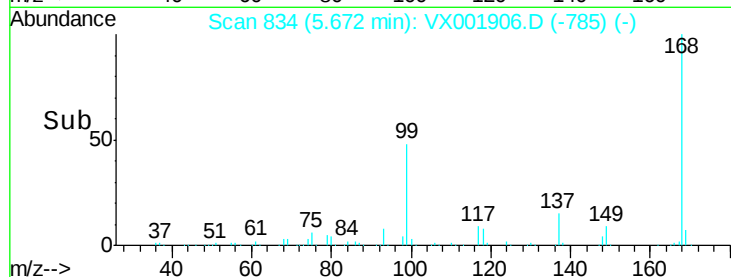
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 175

Delta R.T. 0.02 min

Lab File: VX001906.D

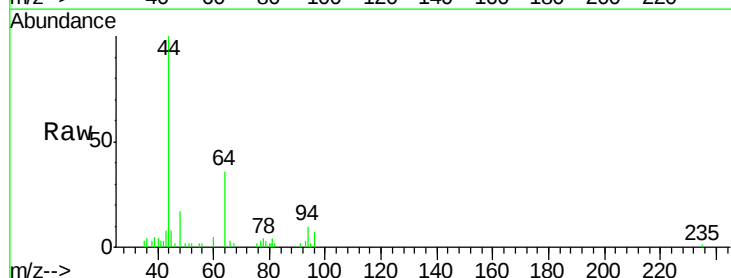
Acq: 22 May 2018 20:58

Tgt Ion: 94 Resp: 938

Ion Ratio Lower Upper

94 100

96 70.0 77.4 116.0#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.65

500

400

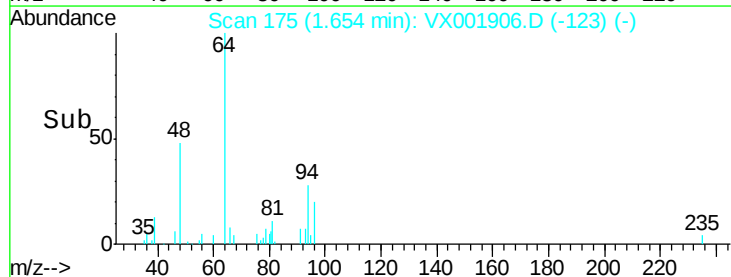
300

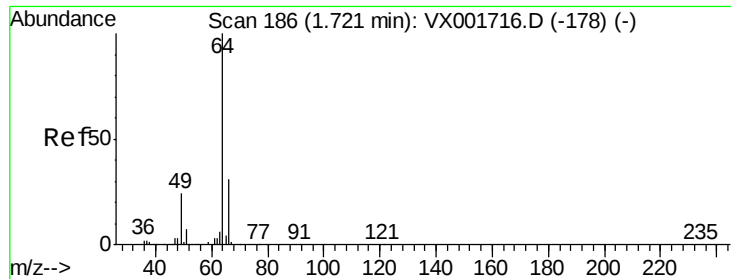
200

100

0

Time--> 1.60 1.65 1.70





#6

Chloroethane

Concen: 2.74 ug/l

RT: 1.53 min Scan# 154

Delta R.T. -0.19 min

Lab File: VX001906.D

Acq: 22 May 2018 20:58

Instrument :

MSVOA_X

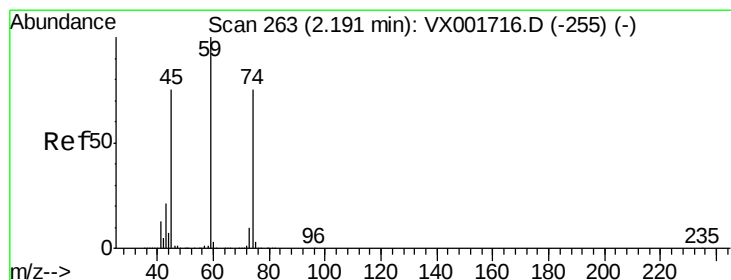
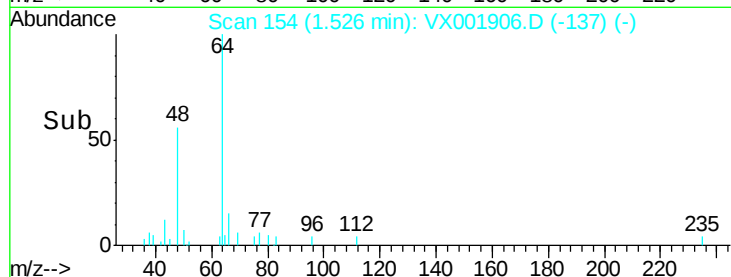
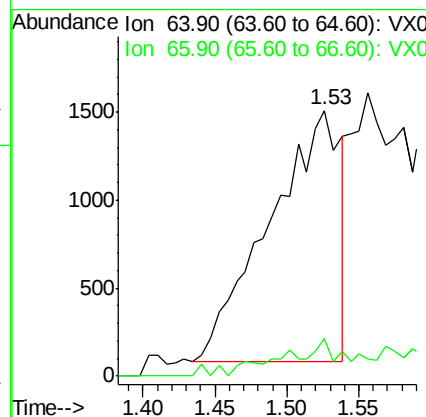
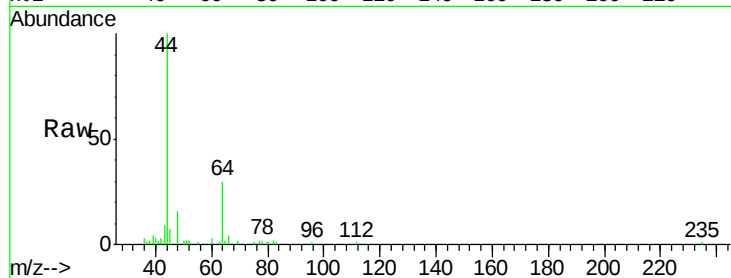
ClientSampleId :

Tot Ion: 64 Resp: 4894

Ion Ratio Lower Upper

64 100

66 15.1 25.2 37.8#



#8

Diethyl Ether

Concen: 0.24 ug/l

RT: 2.20 min Scan# 264

Delta R.T. 0.01 min

Lab File: VX001906.D

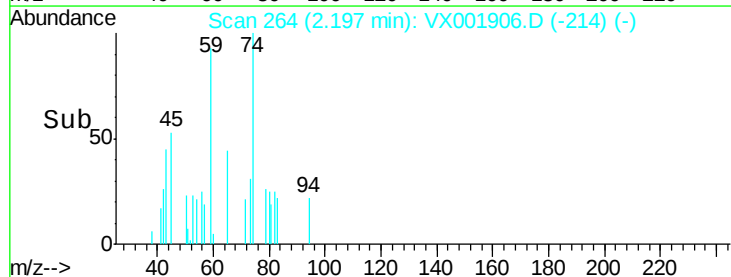
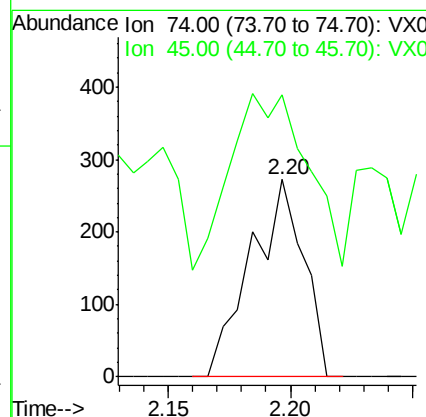
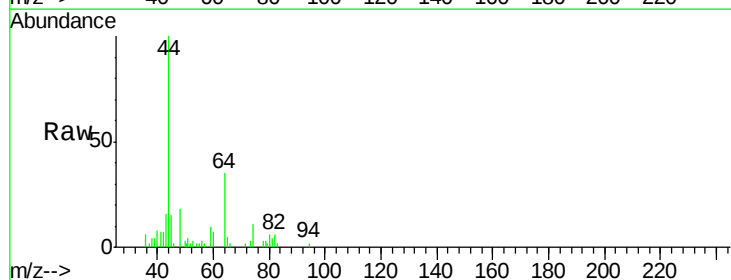
Acq: 22 May 2018 20:58

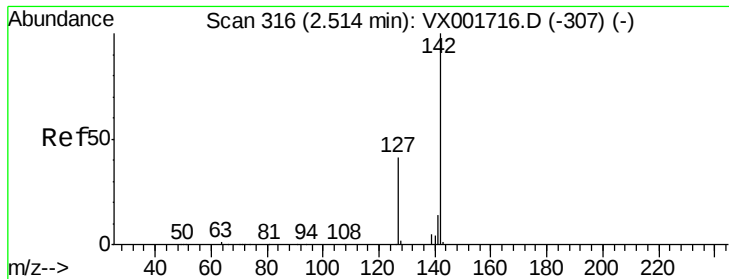
Tgt Ion: 74 Resp: 410

Ion Ratio Lower Upper

74 100

45 128.3 50.0 149.8

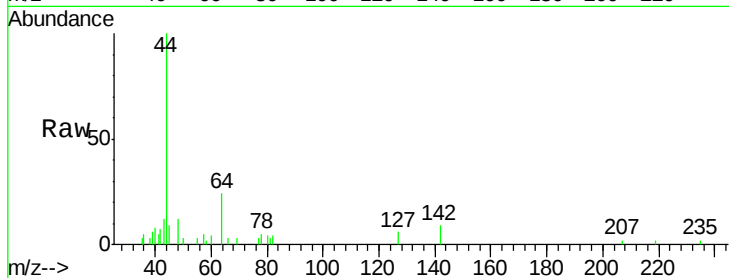




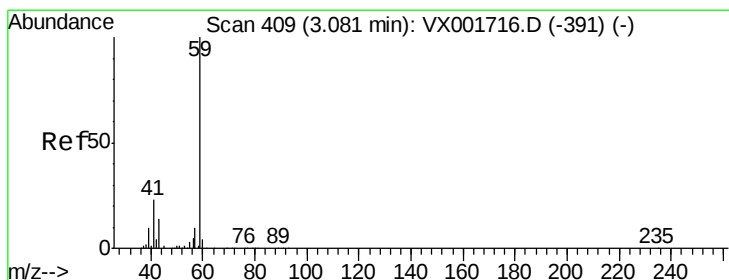
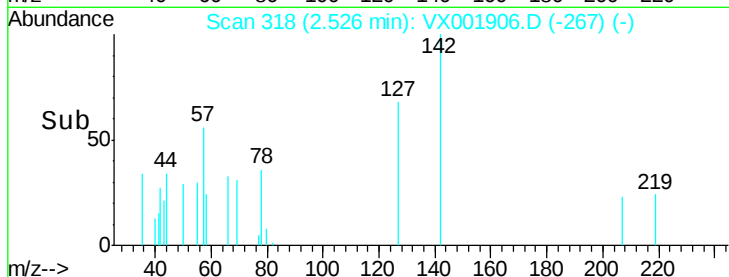
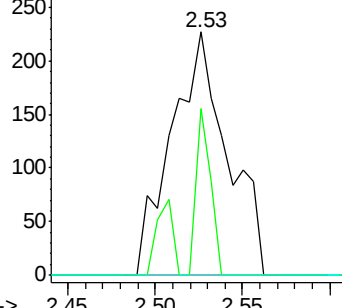
#10
Methyl Iodide
Concen: 0.22 ug/l
RT: 2.53 min Scan# 318
Delta R.T. 0.01 min
Lab File: VX001906.D
Acq: 22 May 2018 20:58

Instrument :
MSVOA_X
ClientSampled :

Tot Ion:142 Resp: 506
Ion Ratio Lower Upper
142 100
127 17.6 32.5 48.7#
141 0.0 11.4 17.0#

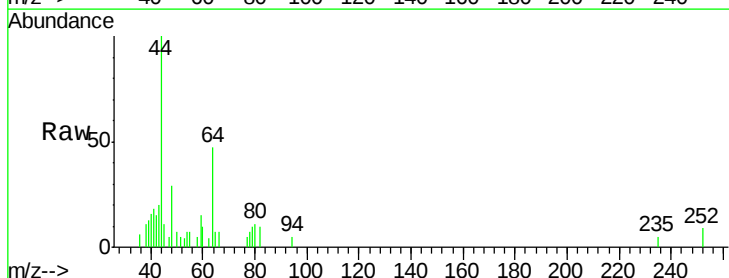


Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V

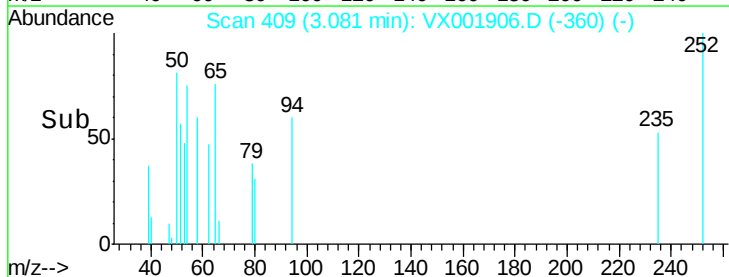
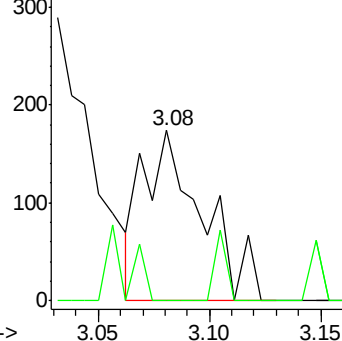


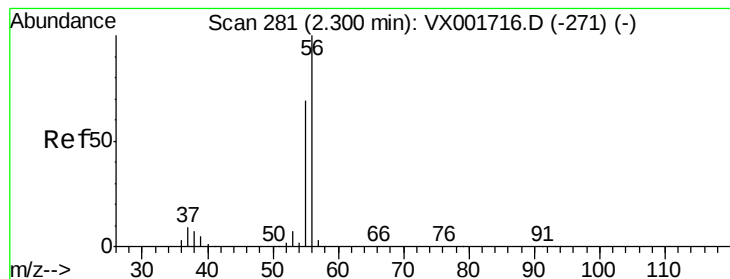
#11
Tert butyl alcohol
Concen: 0.56 ug/l
RT: 3.08 min Scan# 409
Delta R.T. -0.00 min
Lab File: VX001906.D
Acq: 22 May 2018 20:58

Tgt Ion: 59 Resp: 324
Ion Ratio Lower Upper
59 100
57 0.0 8.5 12.7#



Abundance Ion 59.00 (58.70 to 59.70): VX0
Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: 0.47 ug/l

RT: 2.30 min Scan# 281

Delta R.T. -0.00 min

Lab File: VX001906.D

Acq: 22 May 2018 20:58

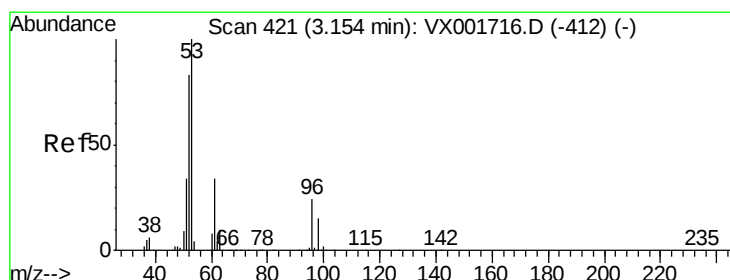
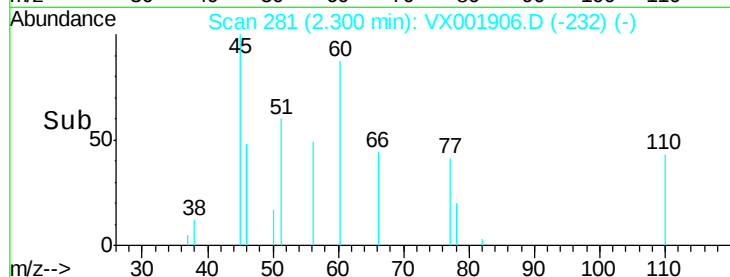
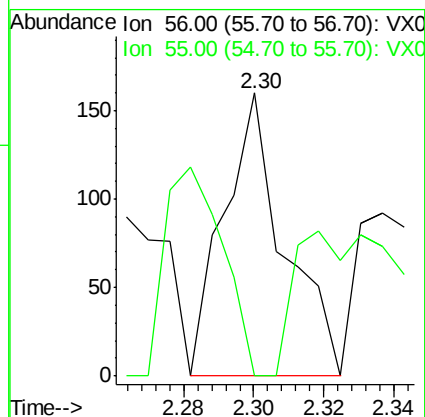
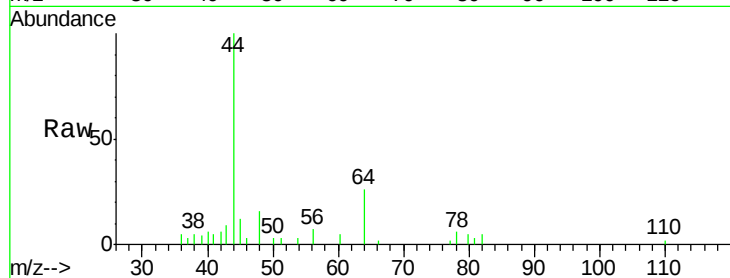
Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 56 Resp: 192

Ion Ratio Lower Upper

56 100

55 70.3 56.2 84.2



#15

Acrylonitrile

Concen: 0.20 ug/l

RT: 3.16 min Scan# 422

Delta R.T. 0.01 min

Lab File: VX001906.D

Acq: 22 May 2018 20:58

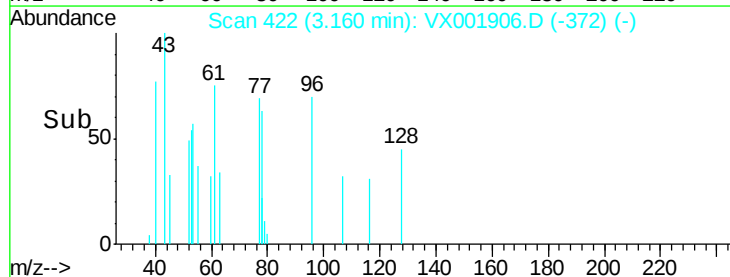
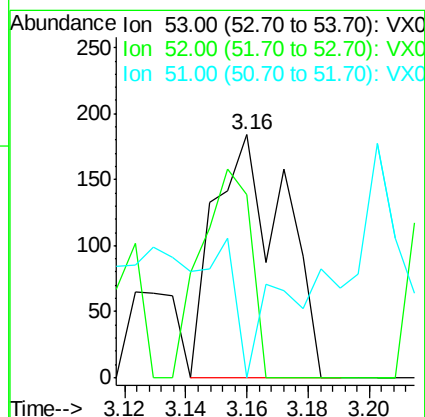
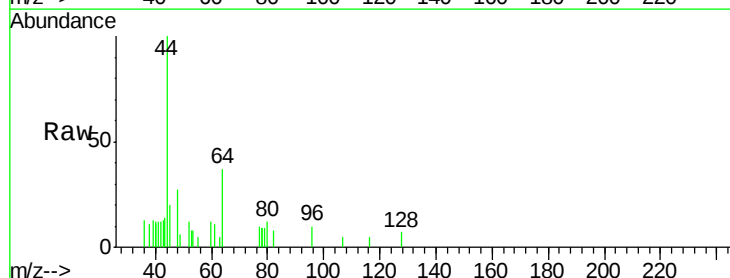
Tgt Ion: 53 Resp: 291

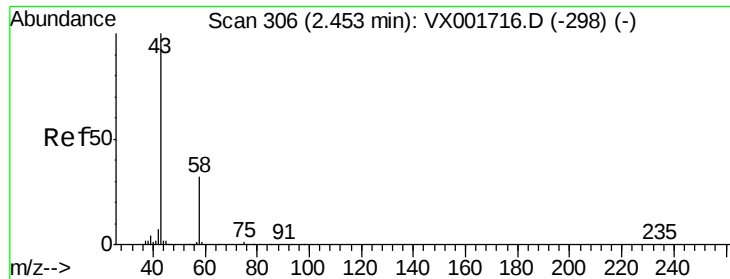
Ion Ratio Lower Upper

53 100

52 61.5 65.6 98.4#

51 89.3 28.1 42.1#





#16

Acetone

Concen: 6.59 ug/l

RT: 2.45 min Scan# 306

Delta R.T. -0.00 min

Lab File: VX001906.D

Acq: 22 May 2018 20:58

Instrument :

MSVOA_X

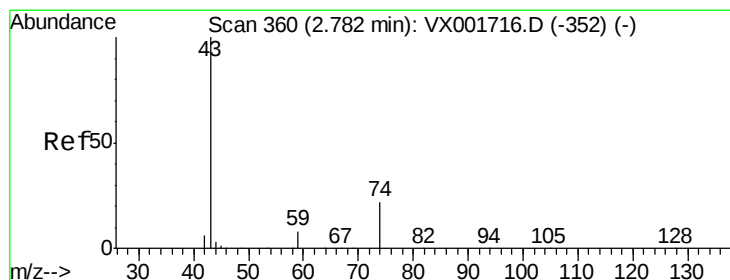
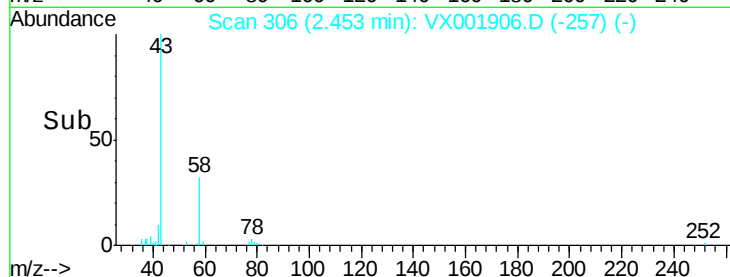
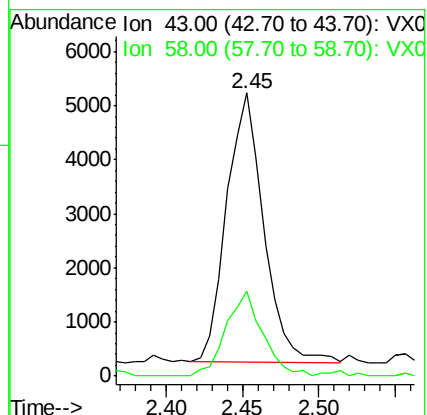
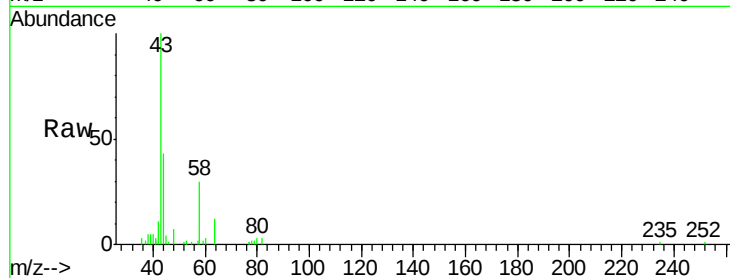
ClientSampleId :

Tot Ion: 43 Resp: 8397

Ion Ratio Lower Upper

43 100

58 31.3 25.3 37.9



#18

Methyl Acetate

Concen: 6.65 ug/l

RT: 2.78 min Scan# 360

Delta R.T. -0.00 min

Lab File: VX001906.D

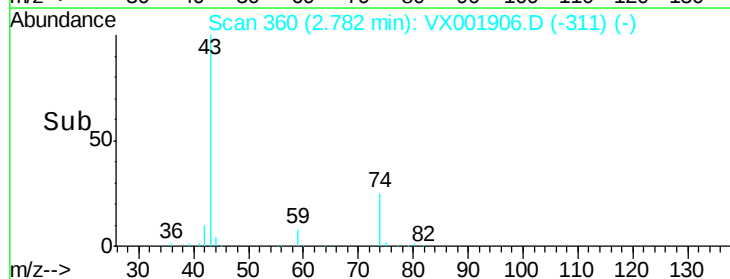
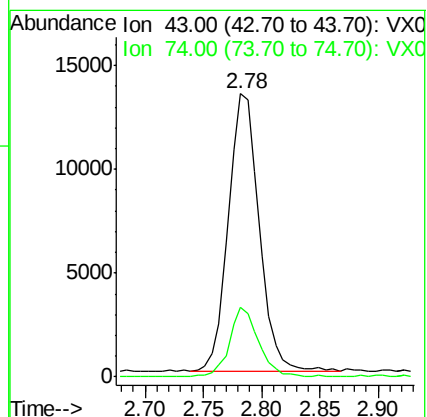
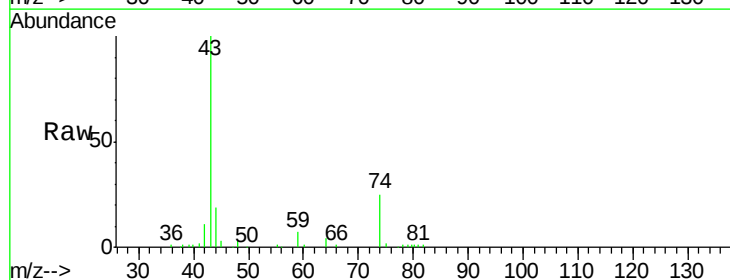
Acq: 22 May 2018 20:58

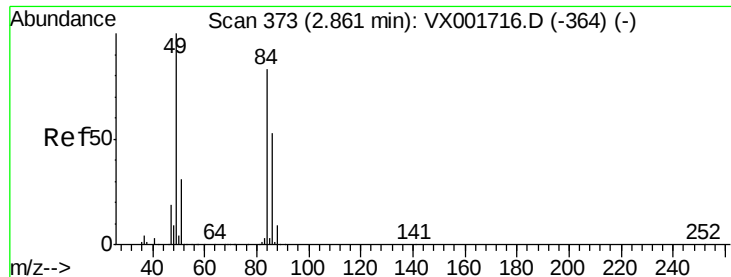
Tgt Ion: 43 Resp: 24769

Ion Ratio Lower Upper

43 100

74 23.6 18.2 27.2

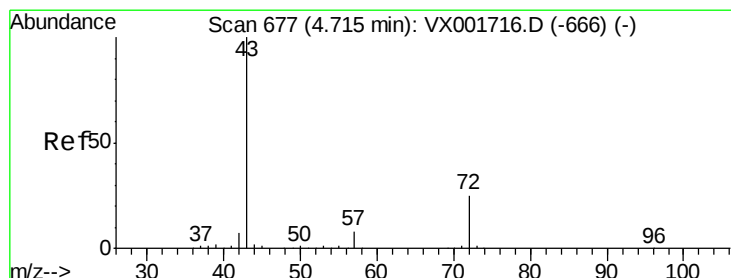
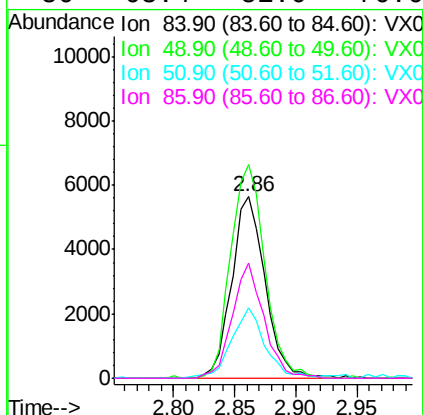
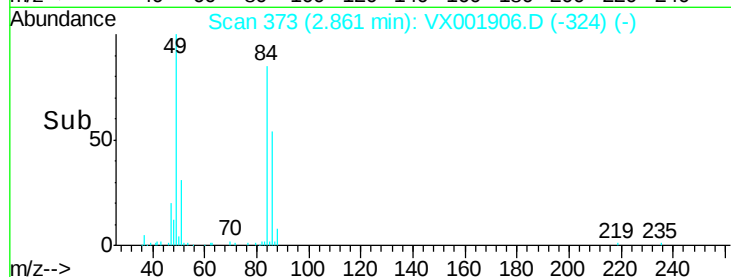
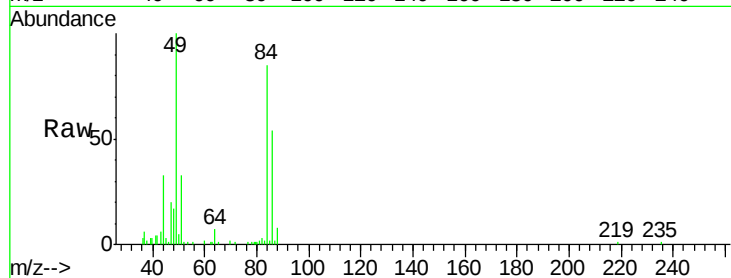




#20
Methylene Chloride
Concen: 3.92 ug/l
RT: 2.86 min Scan# 373
Delta R.T. -0.00 min
Lab File: VX001906.D
Acq: 22 May 2018 20:58

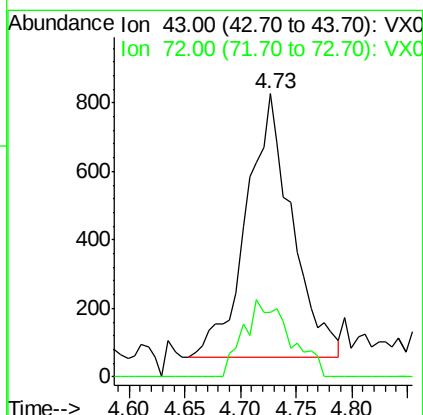
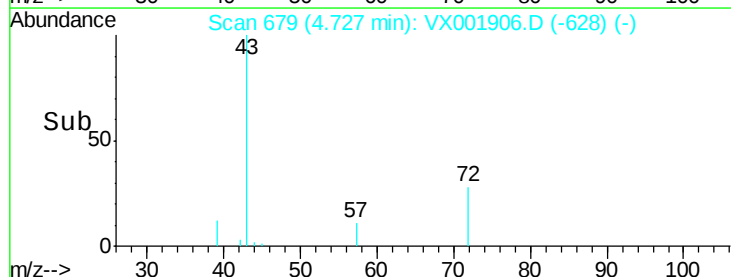
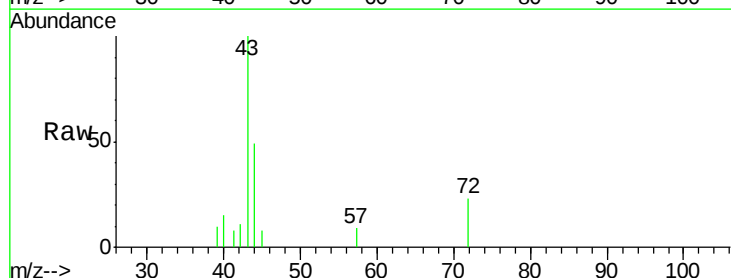
Instrument :
MSVOA_X
ClientSampled :

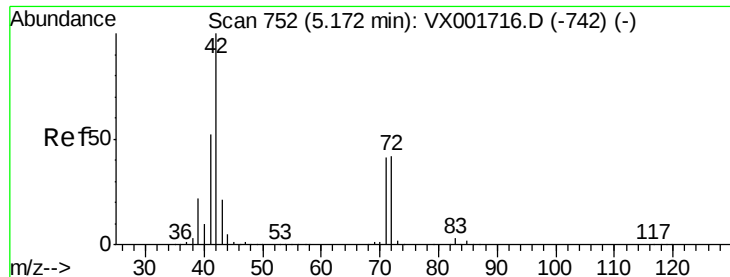
Tot Ion: 84 Resp: 10680
Ion Ratio Lower Upper
84 100
49 117.8 96.3 144.5
51 37.8 29.8 44.6
86 63.4 51.0 76.6



#25
2-Butanone
Concen: 1.13 ug/l
RT: 4.73 min Scan# 679
Delta R.T. 0.01 min
Lab File: VX001906.D
Acq: 22 May 2018 20:58

Tgt Ion: 43 Resp: 2214
Ion Ratio Lower Upper
43 100
72 24.6 19.8 29.6

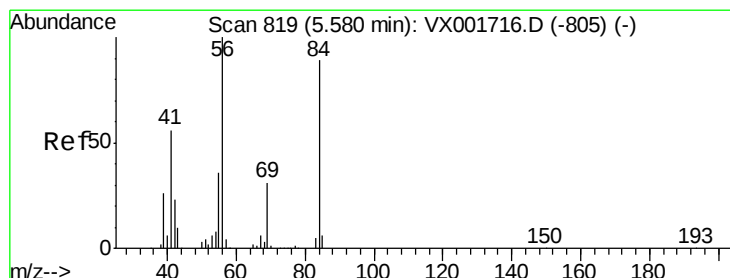
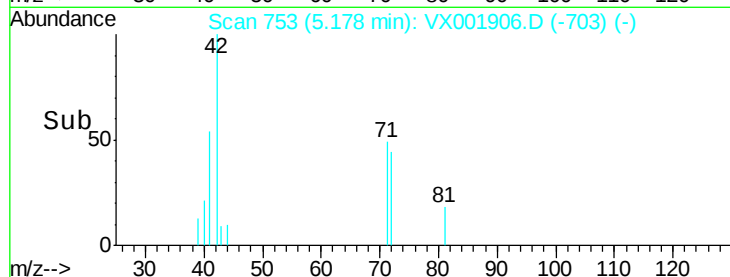
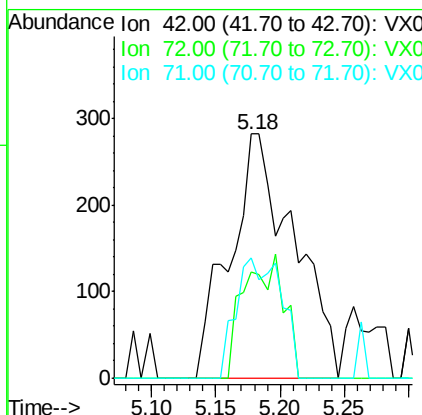
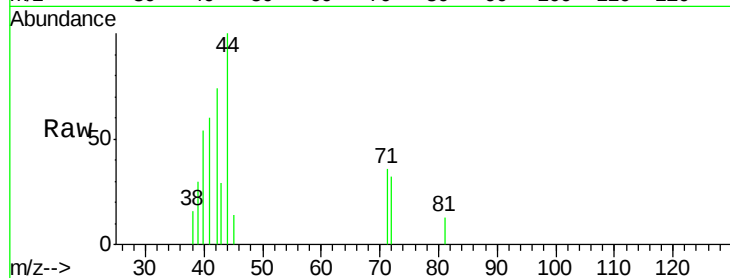




#29
Tetrahydrofuran
Concen: 0.76 ug/l
RT: 5.18 min Scan# 753
Delta R.T. 0.01 min
Lab File: VX001906.D
Acq: 22 May 2018 20:58

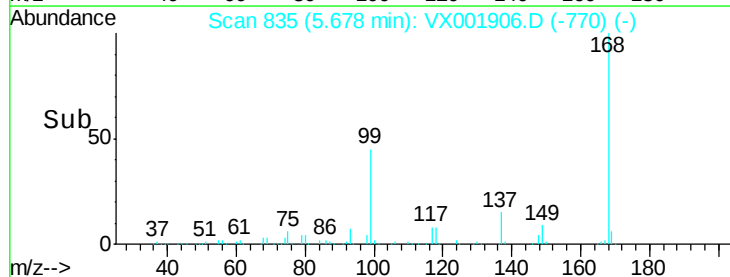
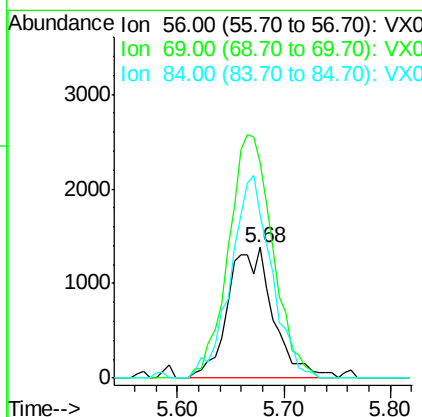
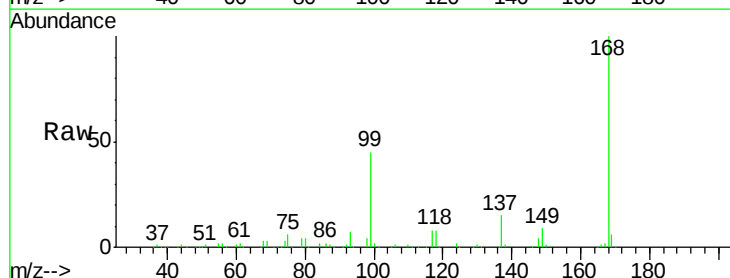
Instrument :
MSVOA_X
ClientSampleId :

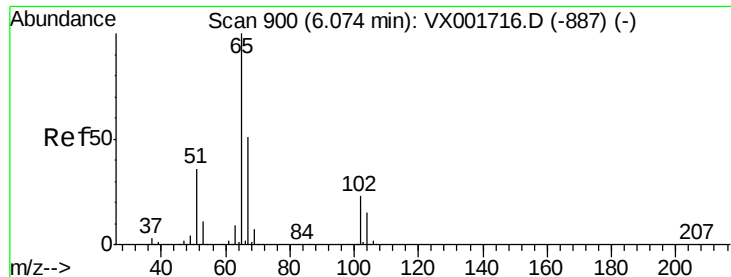
Tot Ion: 42 Resp: 972
Ion Ratio Lower Upper
42 100
72 31.6 35.4 53.2#
71 34.9 33.2 49.8



#31
Cyclohexane
Concen: 1.01 ug/l
RT: 5.68 min Scan# 835
Delta R.T. 0.10 min
Lab File: VX001906.D
Acq: 22 May 2018 20:58

Tgt Ion: 56 Resp: 4112
Ion Ratio Lower Upper
56 100
69 165.0 25.0 37.6#
84 124.3 71.0 106.4#





#33

1,2-Dichloroethane-d4

Concen: 49.28 ug/l

RT: 6.07 min Scan# 900

Delta R.T. -0.00 min

Lab File: VX001906.D

Acq: 22 May 2018 20:58

Instrument :

MSVOA_X

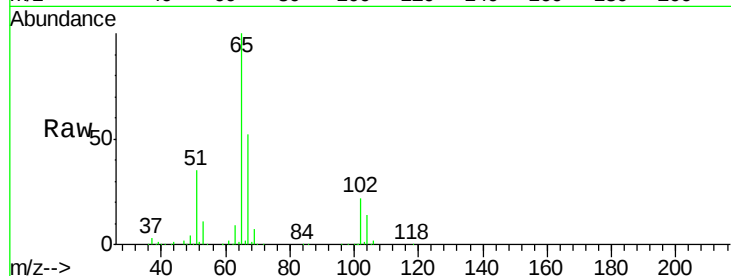
ClientSampleId :

Tot Ion: 65 Resp: 159892

Ion Ratio Lower Upper

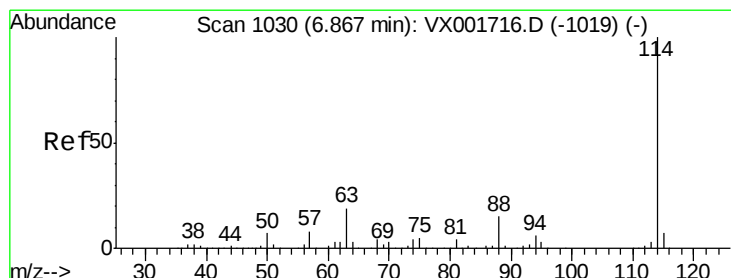
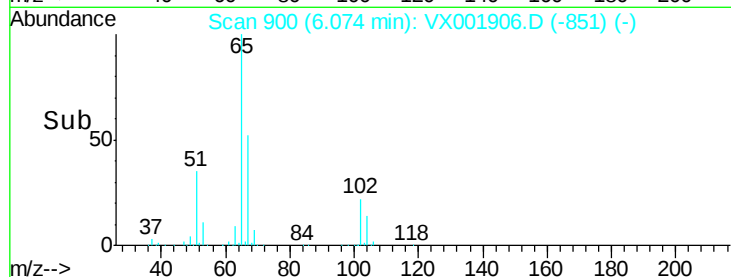
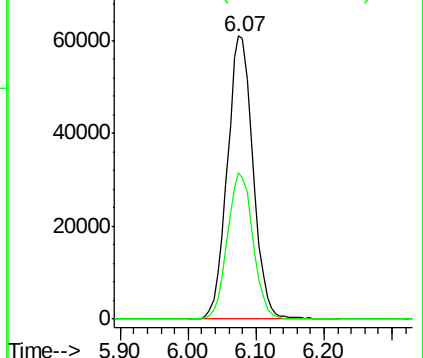
65 100

67 51.3 0.0 102.8



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0



#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 6.87 min Scan# 1030

Delta R.T. -0.00 min

Lab File: VX001906.D

Acq: 22 May 2018 20:58

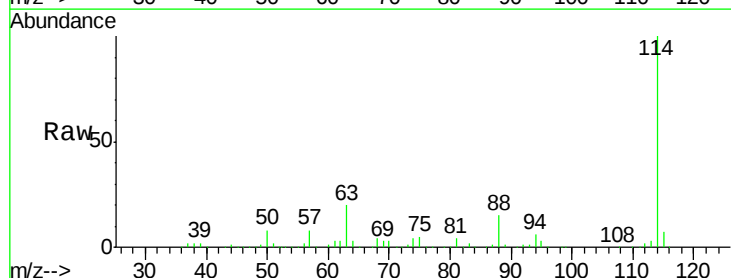
Tgt Ion: 114 Resp: 328912

Ion Ratio Lower Upper

114 100

63 19.8 0.0 37.0

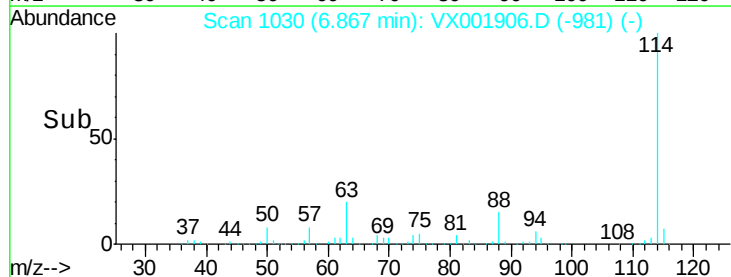
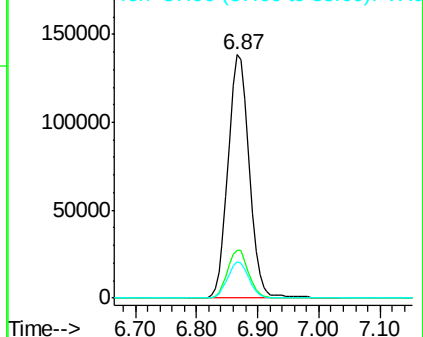
88 14.8 0.0 29.8

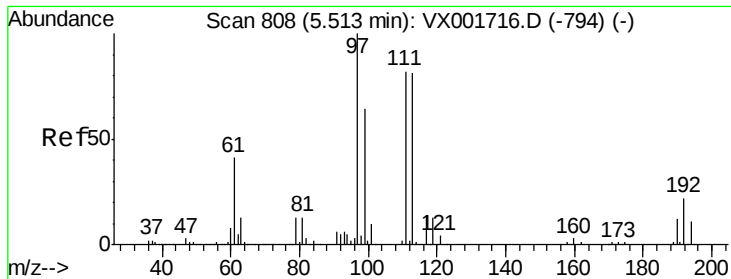


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0





#35

Dibromofluoromethane

Concen: 47.04 ug/l

RT: 5.51 min Scan# 808

Delta R.T. -0.00 min

Lab File: VX001906.D

Acq: 22 May 2018 20:58

Instrument :
MSVOA_X
ClientSampleId :

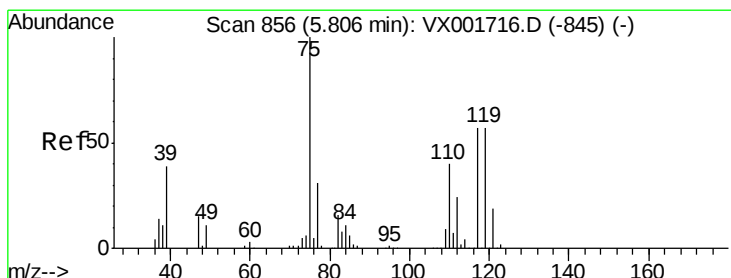
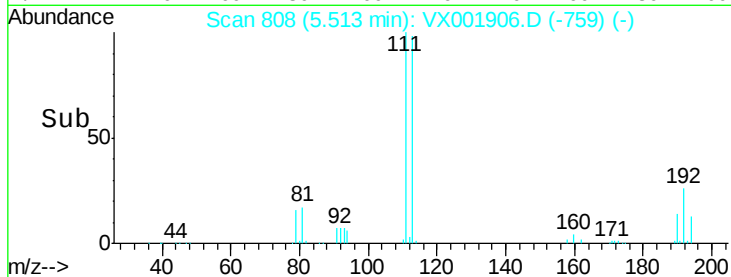
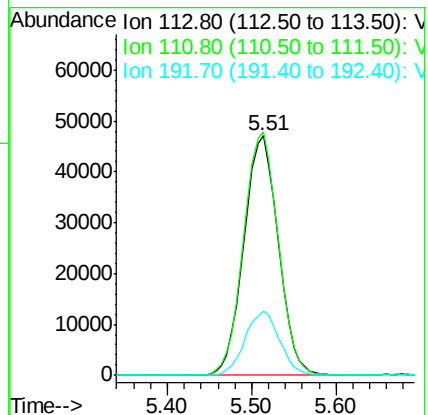
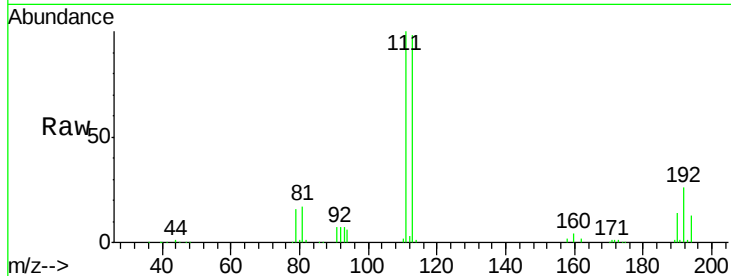
Tot Ion:113 Resp: 130583

Ion Ratio Lower Upper

113 100

111 102.3 82.0 123.0

192 27.0 21.6 32.4



#36

1,1-Dichloropropene

Concen: 3.91 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.14 min

Lab File: VX001906.D

Acq: 22 May 2018 20:58

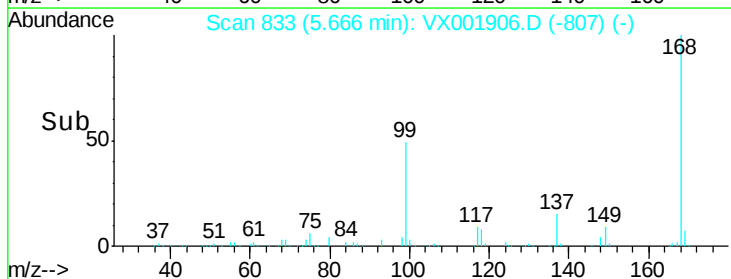
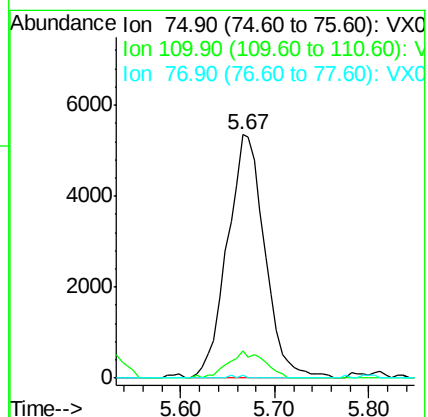
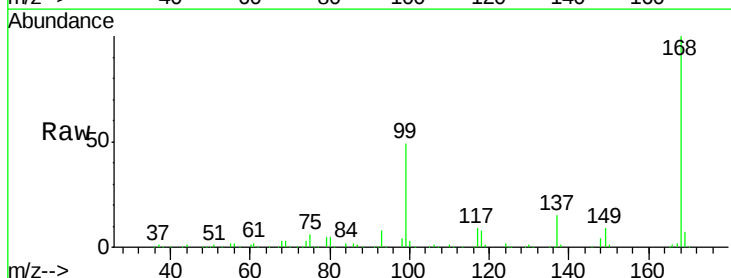
Tgt Ion: 75 Resp: 14791

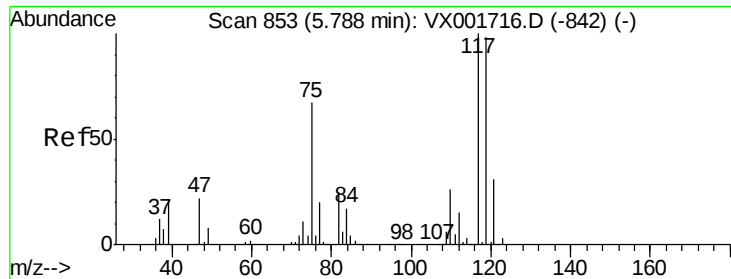
Ion Ratio Lower Upper

75 100

110 10.5 19.1 57.1#

77 0.1 24.6 37.0#





#38

Carbon Tetrachloride

Concen: 5.20 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.12 min

Lab File: VX001906.D

Acq: 22 May 2018 20:58

Instrument :

MSVOA_X

ClientSampleId :

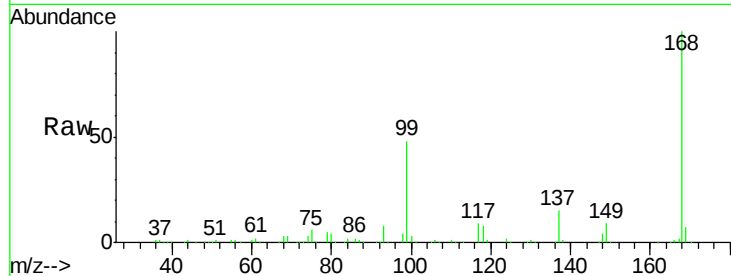
Tot Ion:117 Resp: 20626

Ion Ratio Lower Upper

117 100

119 6.1 77.6 116.4#

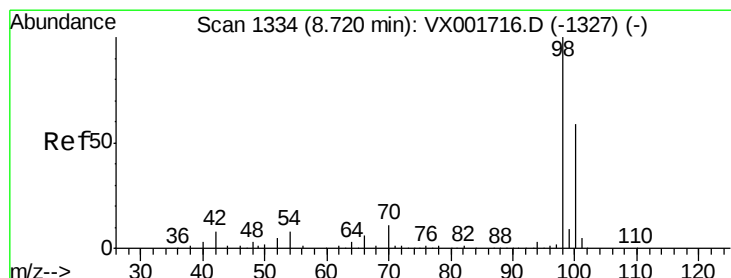
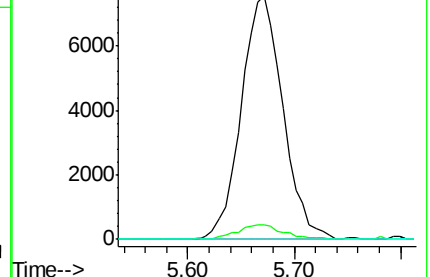
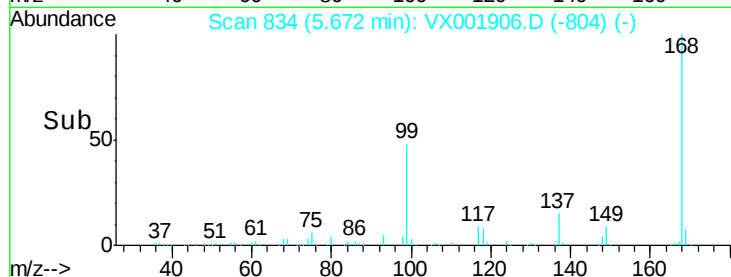
121 0.0 24.6 36.8#



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: 46.56 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. -0.00 min

Lab File: VX001906.D

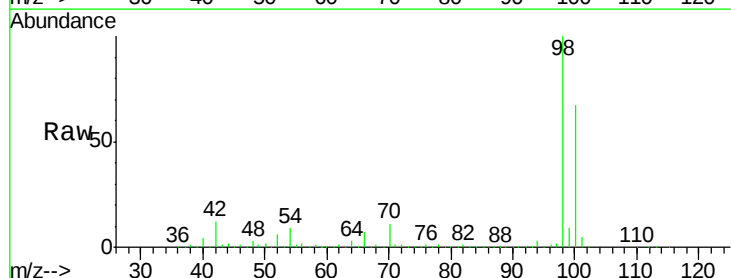
Acq: 22 May 2018 20:58

Tgt Ion: 98 Resp: 462814

Ion Ratio Lower Upper

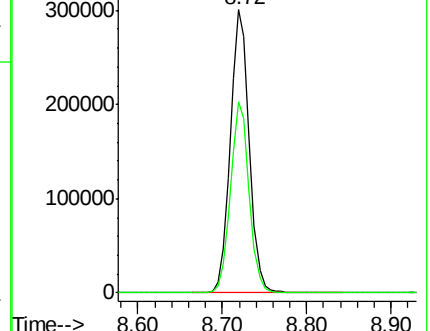
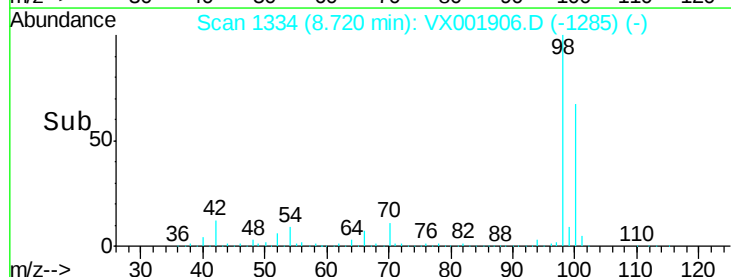
98 100

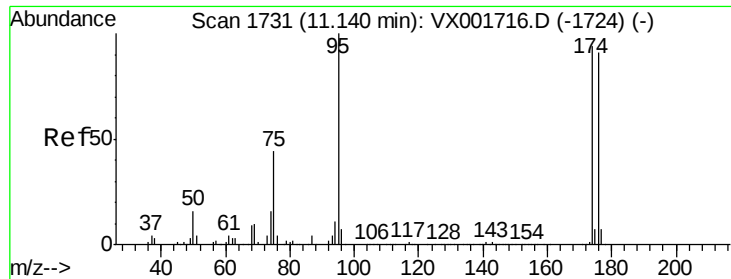
100 66.5 54.0 81.0



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V





#62

4-Bromofluorobenzene

Concen: 38.65 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.00 min

Lab File: VX001906.D

Acq: 22 May 2018 20:58

Instrument :

MSVOA_X

ClientSampled :

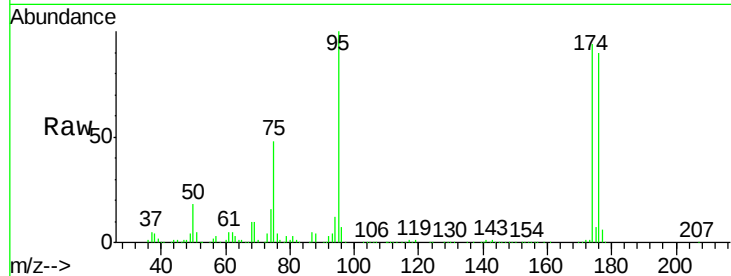
Tot Ion: 95 Resp: 138327

Ion Ratio Lower Upper

95 100

174 101.7 0.0 201.8

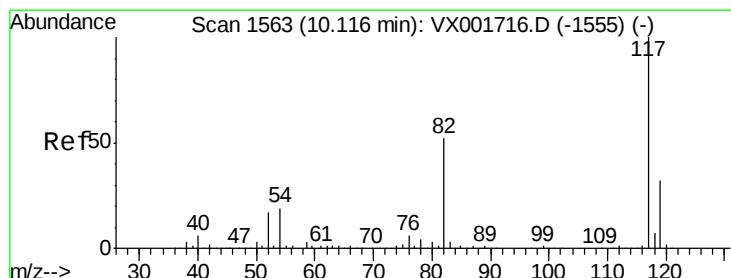
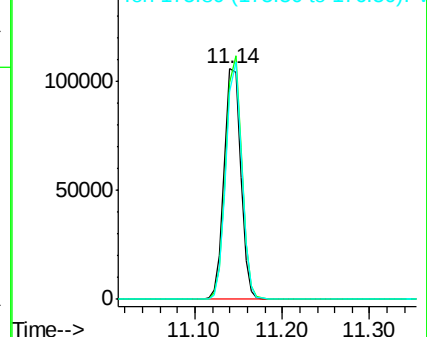
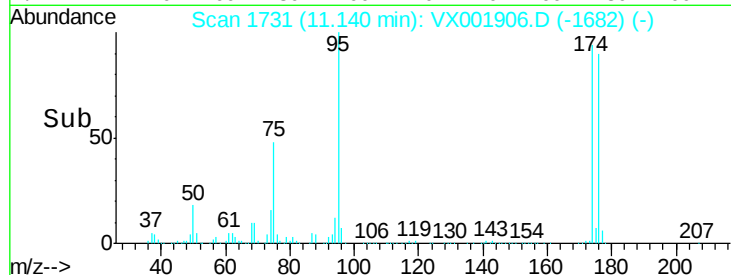
176 97.6 0.0 196.8



Abundance Ion 94.90 (94.60 to 95.60): VX001906.D (-1682) (-)

Ion 173.80 (173.50 to 174.50): VX001906.D (-1682) (-)

Ion 175.80 (175.50 to 176.50): VX001906.D (-1682) (-)



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 10.12 min Scan# 1563

Delta R.T. -0.00 min

Lab File: VX001906.D

Acq: 22 May 2018 20:58

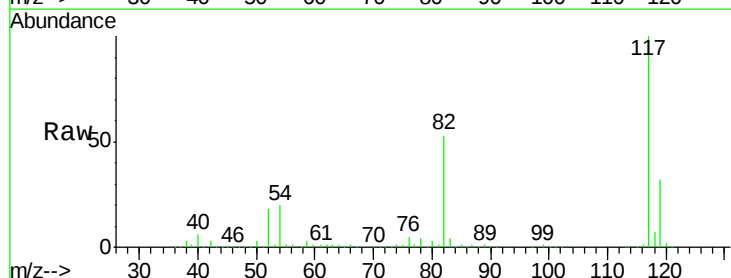
Tgt Ion: 117 Resp: 279580

Ion Ratio Lower Upper

117 100

82 52.8 41.4 62.2

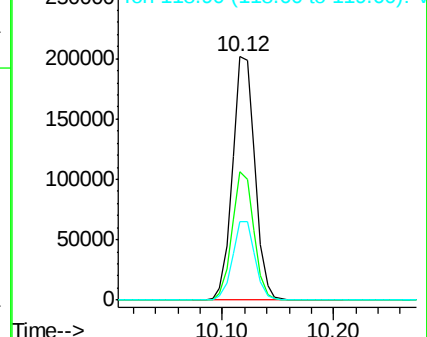
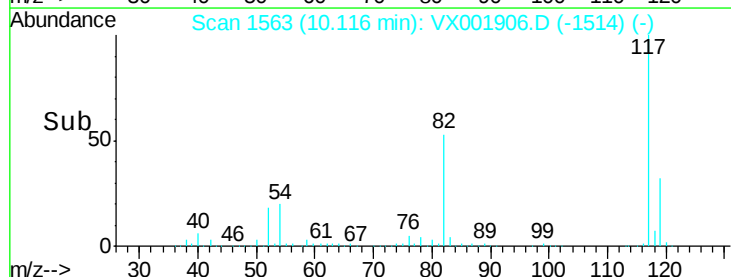
119 32.4 25.6 38.4

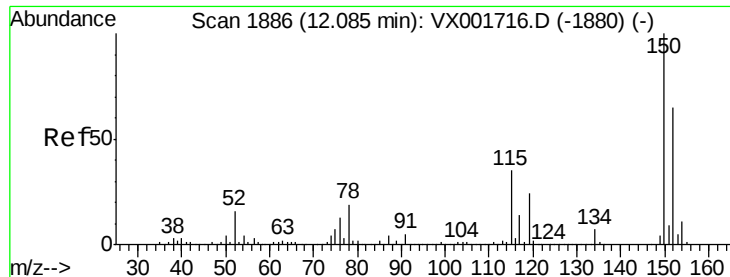


Abundance Ion 116.90 (116.60 to 117.60): VX001906.D (-1514) (-)

Ion 82.00 (81.70 to 82.70): VX001906.D (-1514) (-)

Ion 118.90 (118.60 to 119.60): VX001906.D (-1514) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.09 min Scan# 1886

Delta R.T. -0.00 min

Lab File: VX001906.D

Acq: 22 May 2018 20:58

Instrument :

MSVOA_X

ClientSampleId :

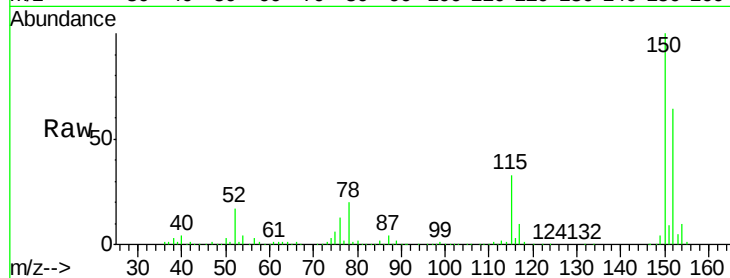
Tot Ion:152 Resp: 139556

Ion Ratio Lower Upper

152 100

115 52.4 37.4 112.2

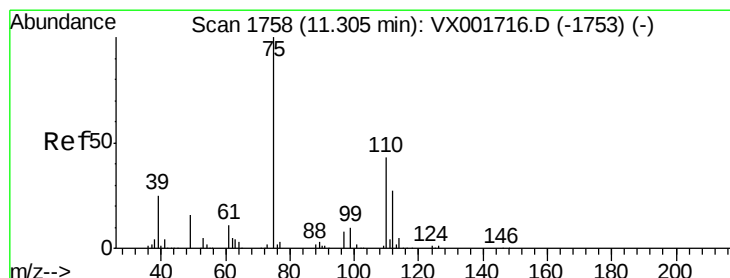
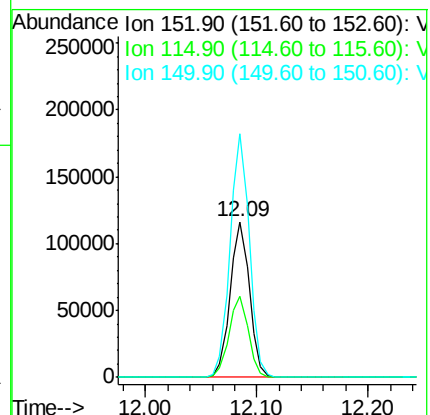
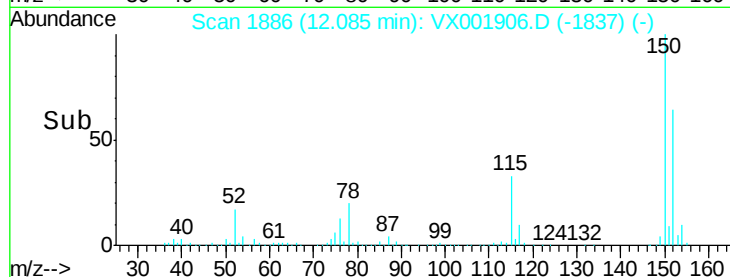
150 156.3 0.0 344.8



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: 24.88 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX001906.D

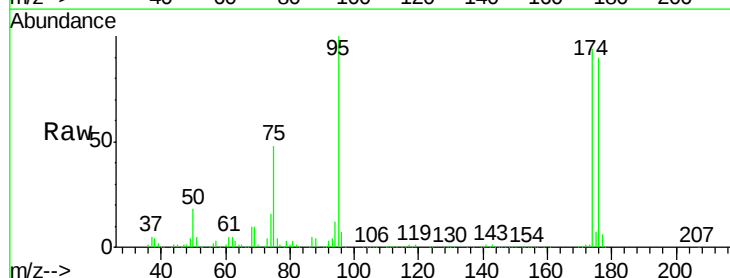
Acq: 22 May 2018 20:58

Tgt Ion: 75 Resp: 66014

Ion Ratio Lower Upper

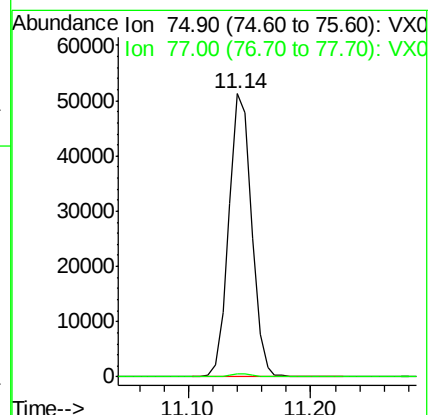
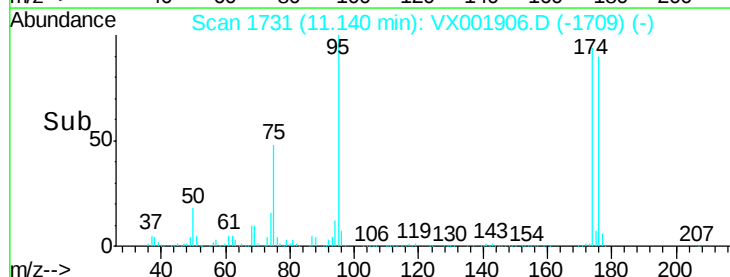
75 100

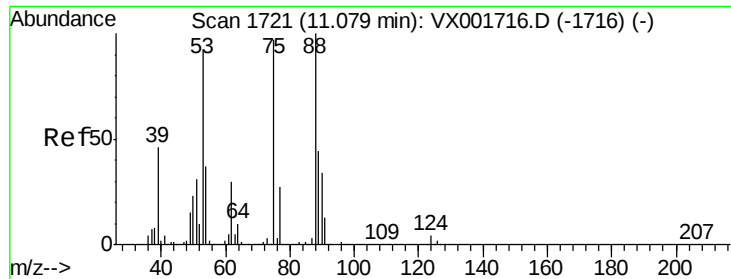
77 1.2 18.9 56.7#



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: 72.54 ug/l
 RT: 11.14 min Scan# 1731
 Delta R.T. 0.06 min
 Lab File: VX001906.D
 Acq: 22 May 2018 20:58

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion: 75 Resp: 66014
 Ion Ratio Lower Upper
 75 100
 53 0.2 79.4 119.2#
 89 0.0 38.8 58.2#

