

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX062018\
 Data File : VX002738.D
 Acq On : 20 Jun 2018 13:41
 Operator : JC/MD
 Sample : J3596-06
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jun 21 03:56:38 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X061518W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 16 01:37:33 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	220240	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	311418	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	288392	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	161751	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	149297	44.61	ug/l	0.00
Spiked Amount			Recovery	=	89.22%	
35) Dibromofluoromethane	5.51	113	116983	47.07	ug/l	0.00
Spiked Amount			Recovery	=	94.14%	
50) Toluene-d8	8.72	98	441056	46.74	ug/l	0.00
Spiked Amount			Recovery	=	93.48%	
62) 4-Bromofluorobenzene	11.14	95	153578	42.95	ug/l	0.00
Spiked Amount			Recovery	=	85.90%	

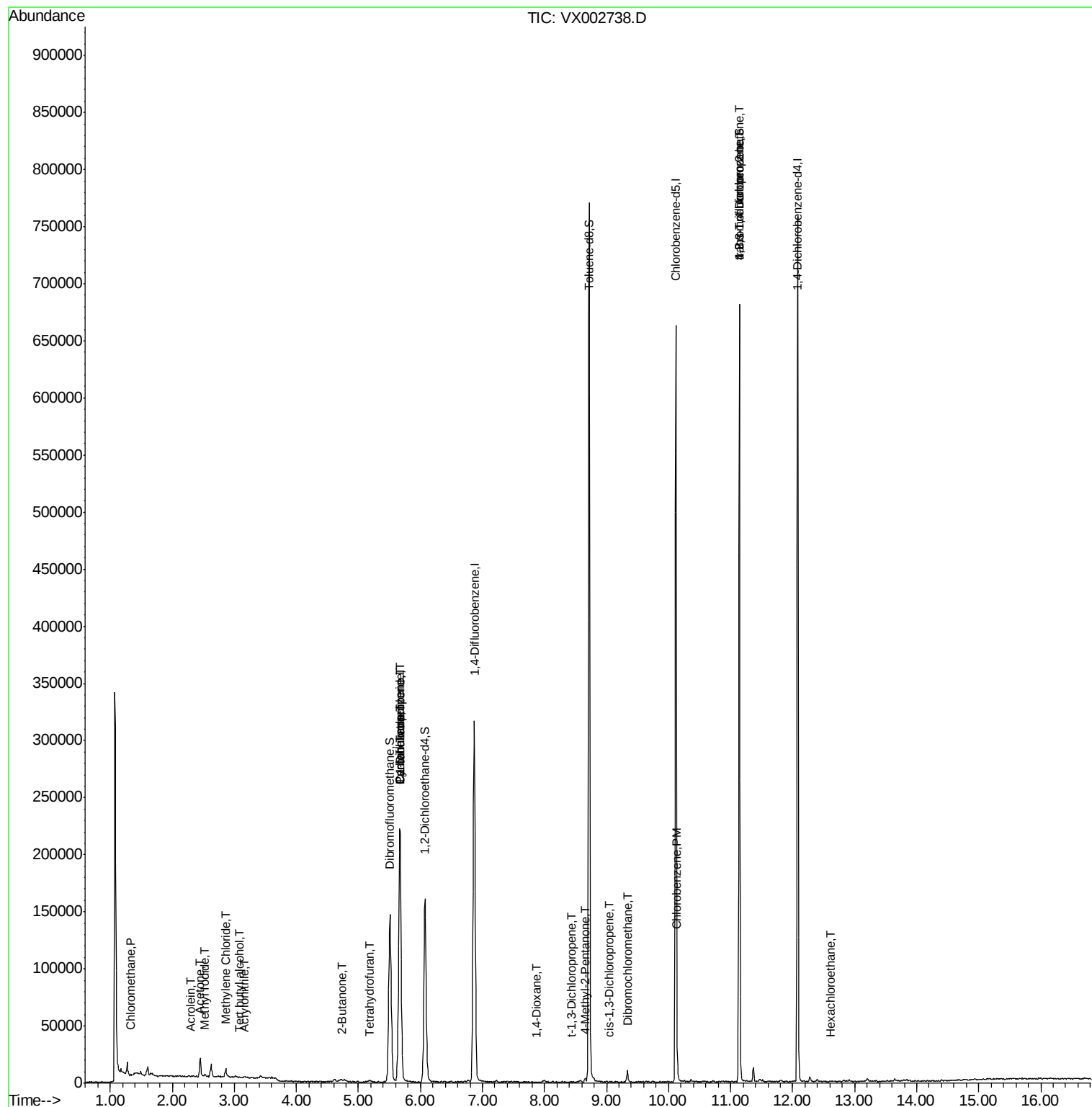
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	952	0.34	ug/l #	75
10) Methyl Iodide	2.52	142	1810	5.64	ug/l	89
11) Tert butyl alcohol	3.08	59	202	0.29	ug/l #	58
13) Acrolein	2.29	56	93	7.14	ug/l #	14
15) Acrylonitrile	3.16	53	335	0.22	ug/l #	30
16) Acetone	2.45	43	18048	12.22	ug/l	97
20) Methylene Chloride	2.86	84	3380	1.12	ug/l	94
25) 2-Butanone	4.73	43	4370	2.25	ug/l	92
29) Tetrahydrofuran	5.18	42	1595	1.26	ug/l	89
31) Cyclohexane	5.67	56	4744	1.20	ug/l #	23
36) 1,1-Dichloropropene	5.67	75	15178	4.59	ug/l #	51
38) Carbon Tetrachloride	5.67	117	19700	5.98	ug/l #	16
49) 1,4-Dioxane	7.87	88	22	0.37	ug/l #	1
51) 4-Methyl-2-Pentanone	8.66	43	1656	0.42	ug/l #	78
53) t-1,3-Dichloropropene	8.44	75	96	2.42	ug/l #	43
54) cis-1,3-Dichloropropene	9.05	75	84	3.23	ug/l #	54
60) Dibromochloromethane	9.34	129	152	3.81	ug/l #	11
65) Chlorobenzene	10.14	112	3235	0.46	ug/l	98
76) 1,2,3-Trichloropropane	11.14	75	81769	26.79	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.14	75	81769	82.73	ug/l #	6
90) Hexachloroethane	12.61	117	27	2.64	ug/l #	1

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

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QLast Update : Sat Jun 16 01:37:33 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.01 min

Lab File: VX002738.D

Acq: 20 Jun 2018 13:41

Instrument :

MSVOA_X

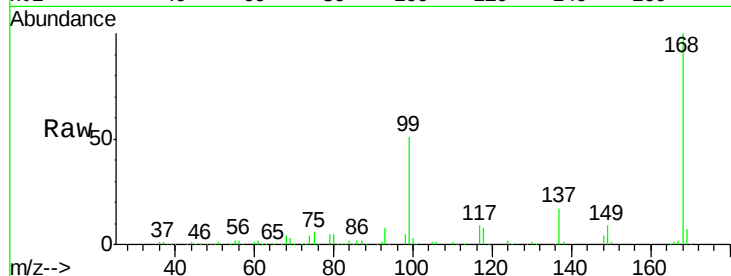
ClientSampleId :

Tot Ion:168 Resp: 220240

Ion Ratio Lower Upper

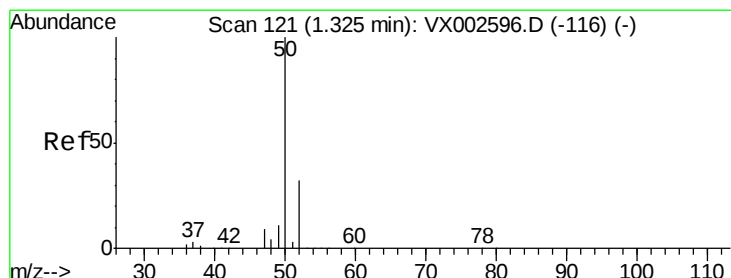
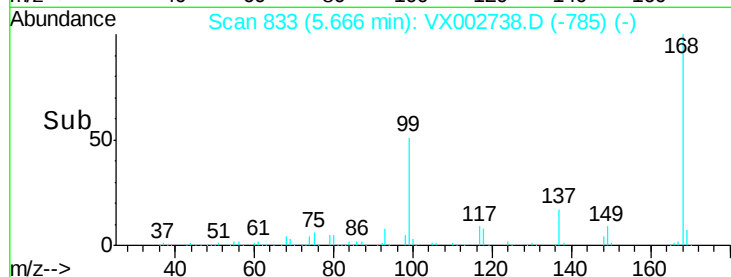
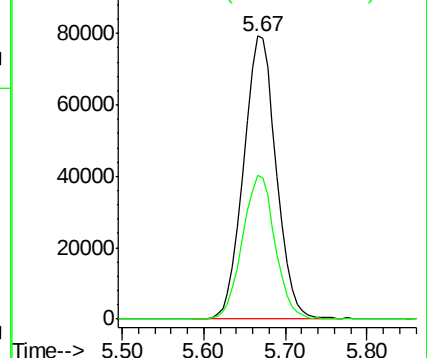
168 100

99 50.8 39.3 58.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#3

Chloromethane

Concen: 0.34 ug/l

RT: 1.32 min Scan# 121

Delta R.T. 0.00 min

Lab File: VX002738.D

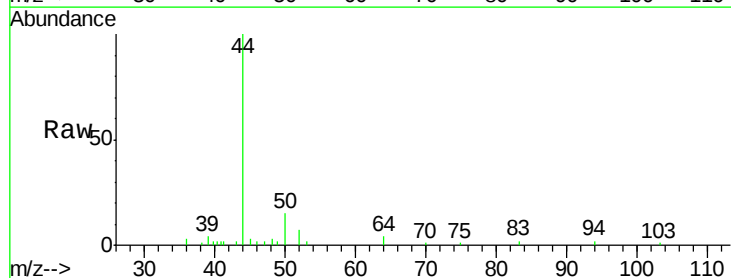
Acq: 20 Jun 2018 13:41

Tgt Ion: 50 Resp: 952

Ion Ratio Lower Upper

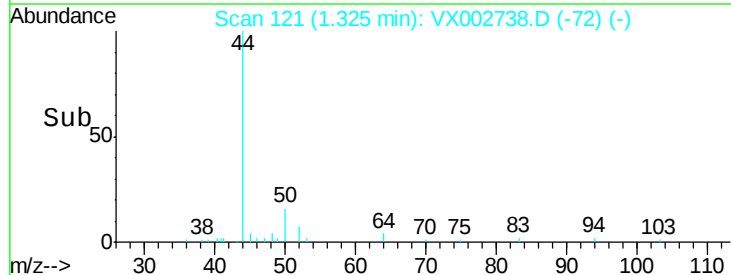
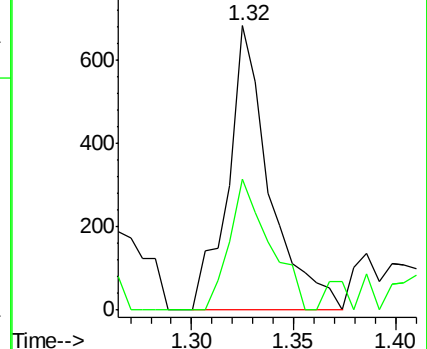
50 100

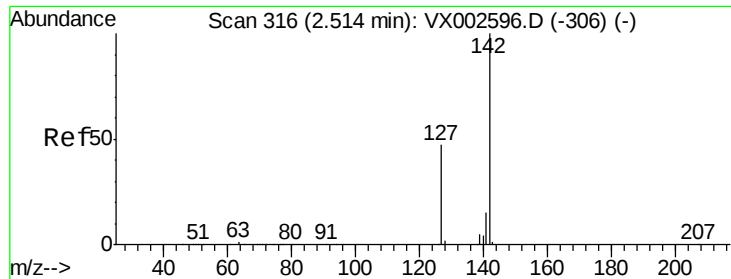
52 45.9 25.7 38.5#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

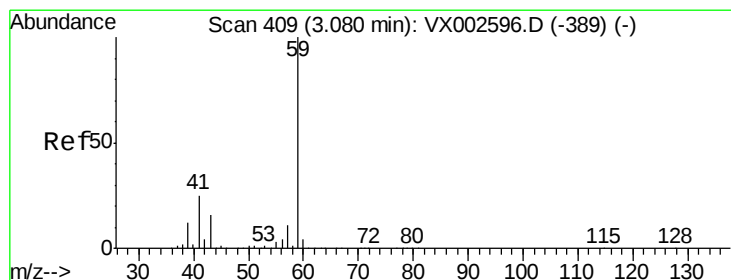
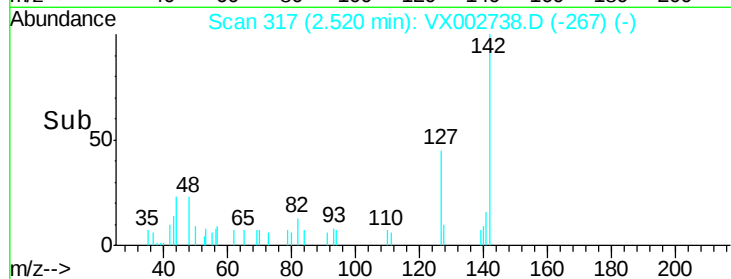
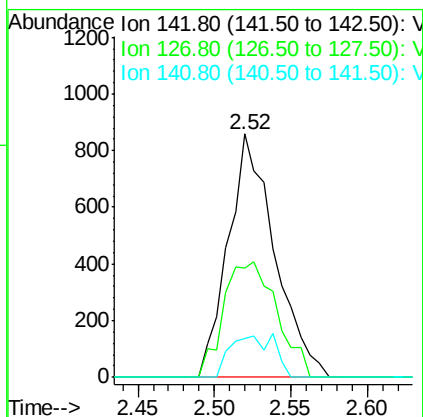
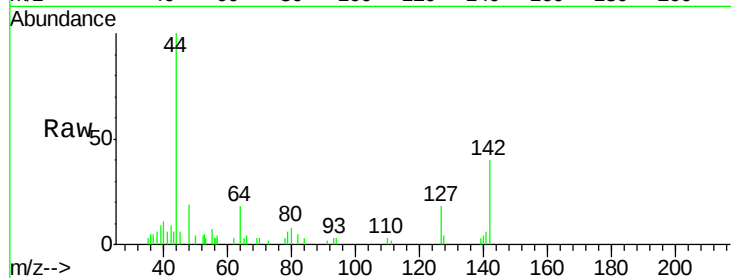




#10
Methyl Iodide
Concen: 5.64 ug/l
RT: 2.52 min Scan# 317
Delta R.T. 0.01 min
Lab File: VX002738.D
Acq: 20 Jun 2018 13:41

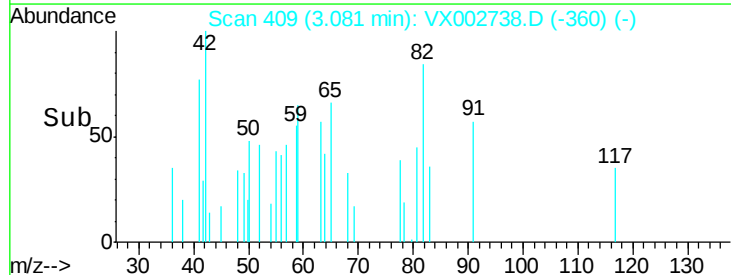
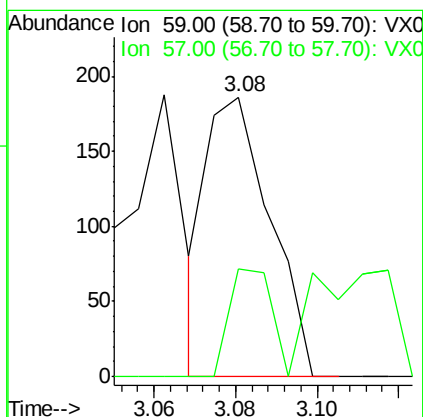
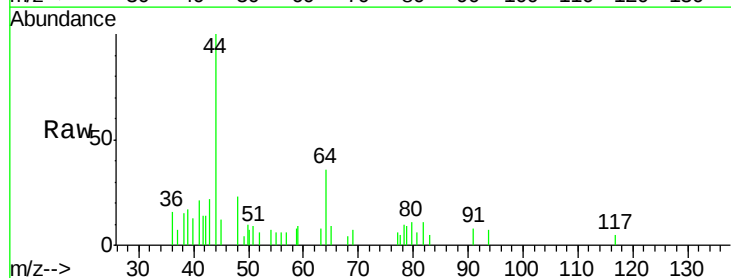
Instrument :
MSVOA_X
ClientSampled :

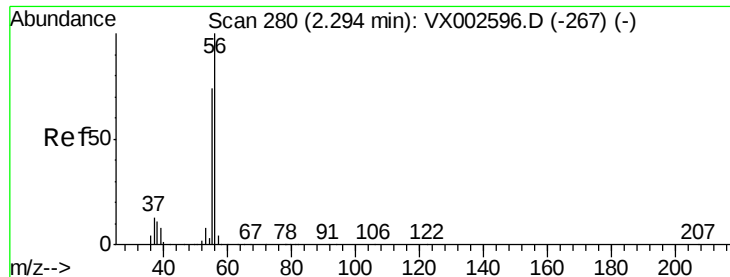
Tot Ion: 142 Resp: 1810
Ion Ratio Lower Upper
142 100
127 54.0 36.6 55.0
141 16.2 11.3 16.9



#11
Tert butyl alcohol
Concen: 0.29 ug/l
RT: 3.08 min Scan# 409
Delta R.T. 0.00 min
Lab File: VX002738.D
Acq: 20 Jun 2018 13:41

Tgt Ion: 59 Resp: 202
Ion Ratio Lower Upper
59 100
57 25.7 8.2 12.2#





#13

Acrolein

Concen: 7.14 ug/l

RT: 2.29 min Scan# 280

Delta R.T. 0.00 min

Lab File: VX002738.D

Acq: 20 Jun 2018 13:41

Instrument :

MSVOA_X

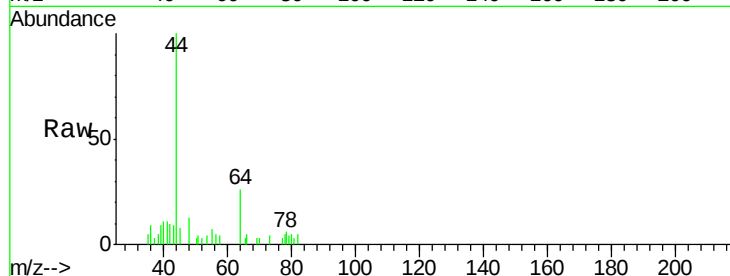
ClientSampled :

Tot Ion: 56 Resp: 93

Ion Ratio Lower Upper

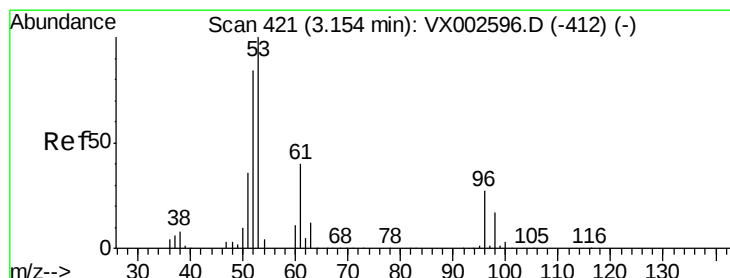
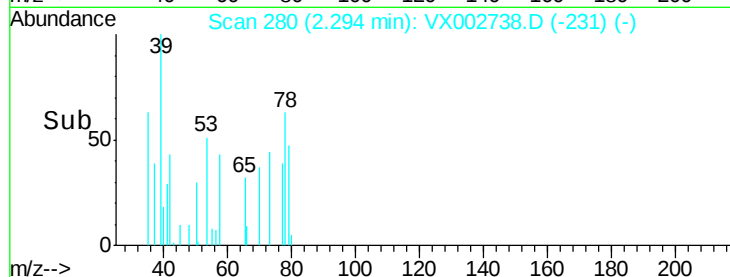
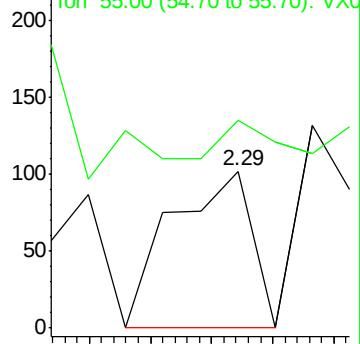
56 100

55 0.0 57.0 85.4#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#15

Acrylonitrile

Concen: 0.22 ug/l

RT: 3.16 min Scan# 422

Delta R.T. 0.01 min

Lab File: VX002738.D

Acq: 20 Jun 2018 13:41

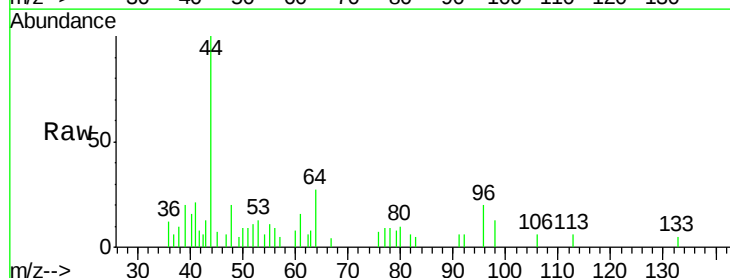
Tgt Ion: 53 Resp: 335

Ion Ratio Lower Upper

53 100

52 22.4 66.7 100.1#

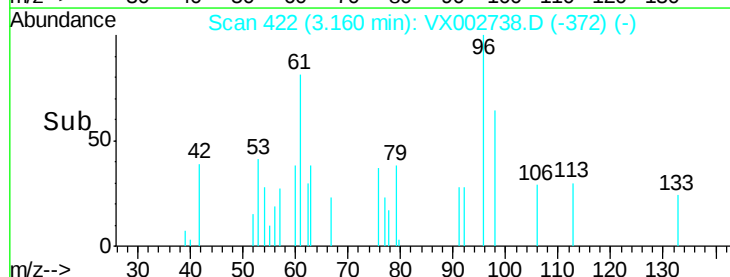
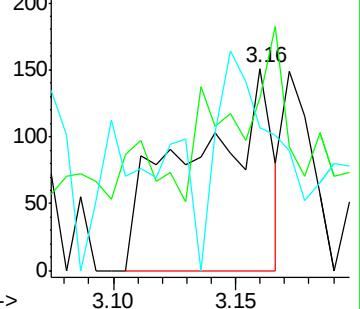
51 82.7 29.9 44.9#

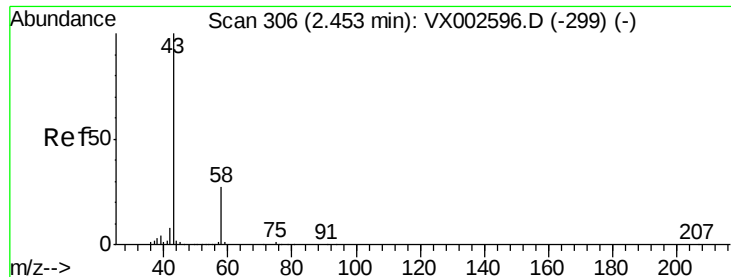


Abundance Ion 53.00 (52.70 to 53.70): VX0

Ion 52.00 (51.70 to 52.70): VX0

Ion 51.00 (50.70 to 51.70): VX0





#16

Acetone

Concen: 12.22 ug/l

RT: 2.45 min Scan# 305

Delta R.T. -0.01 min

Lab File: VX002738.D

Acq: 20 Jun 2018 13:41

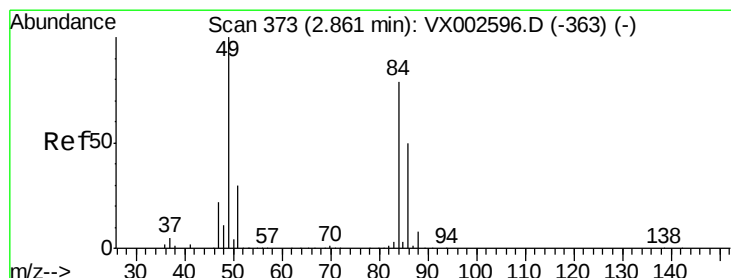
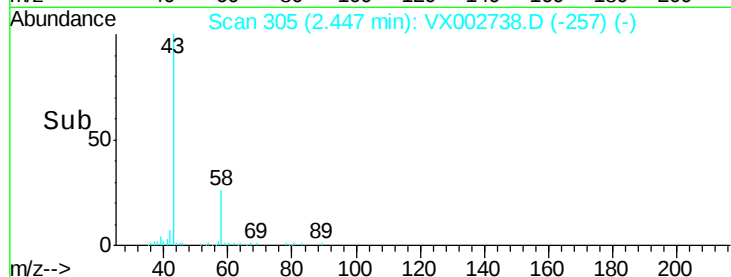
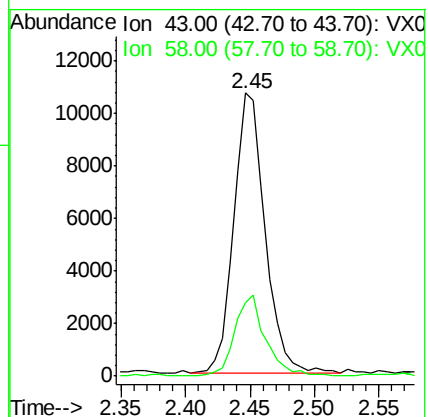
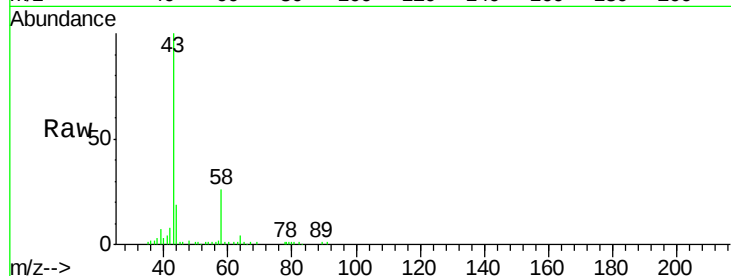
Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 43 Resp: 18048

Ion Ratio Lower Upper

43 100

58 26.2 22.1 33.1



#20

Methylene Chloride

Concen: 1.12 ug/l

RT: 2.86 min Scan# 373

Delta R.T. 0.00 min

Lab File: VX002738.D

Acq: 20 Jun 2018 13:41

Tgt Ion: 84 Resp: 3380

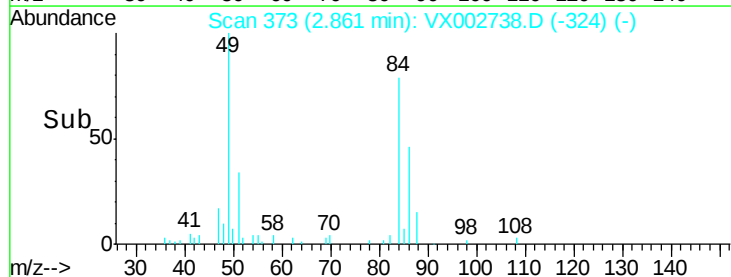
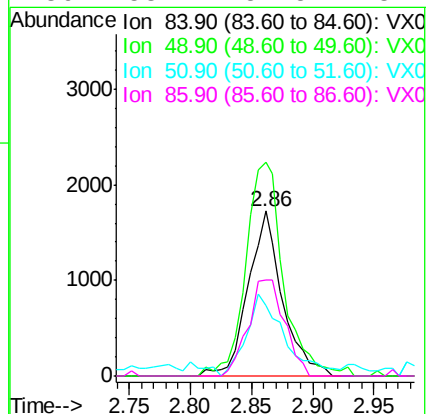
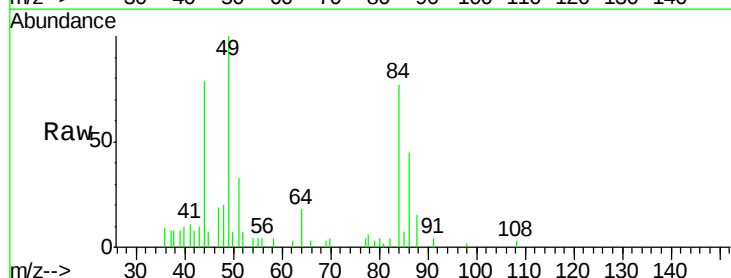
Ion Ratio Lower Upper

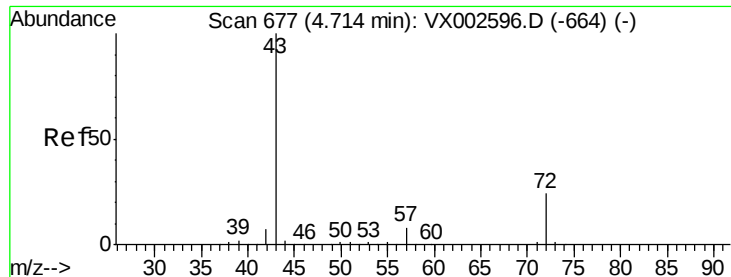
84 100

49 129.6 107.8 161.6

51 38.6 32.8 49.2

86 58.4 52.5 78.7





#25

2-Butanone

Concen: 2.25 ug/l

RT: 4.73 min Scan# 679

Delta R.T. 0.01 min

Lab File: VX002738.D

Acq: 20 Jun 2018 13:41

Instrument :

MSVOA_X

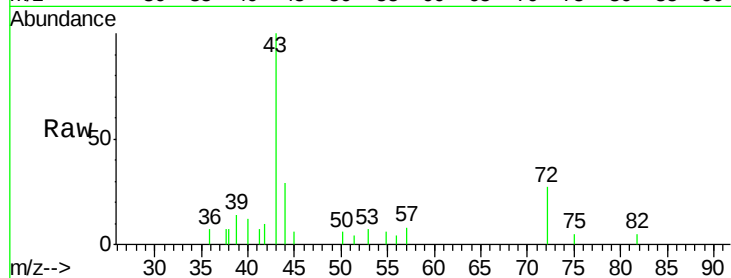
ClientSampled :

Tot Ion: 43 Resp: 4370

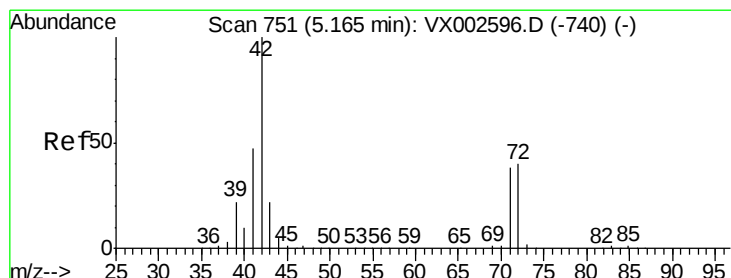
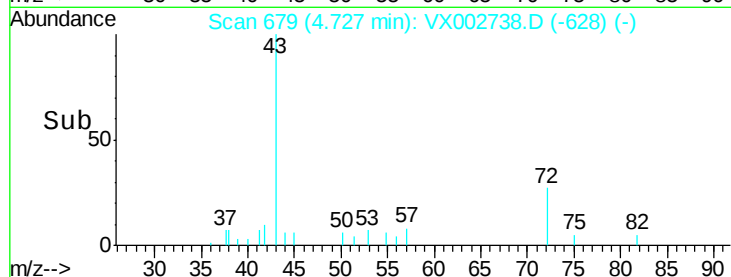
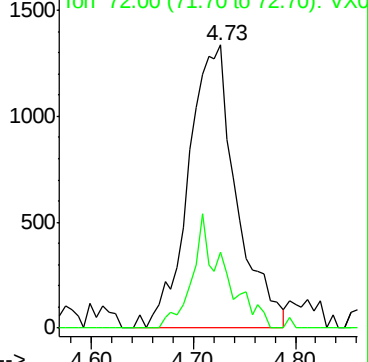
Ion Ratio Lower Upper

43 100

72 26.8 18.5 27.7



Abundance Ion 43.00 (42.70 to 43.70): VX002738.D (-628) (-)



#29

Tetrahydrofuran

Concen: 1.26 ug/l

RT: 5.18 min Scan# 754

Delta R.T. 0.02 min

Lab File: VX002738.D

Acq: 20 Jun 2018 13:41

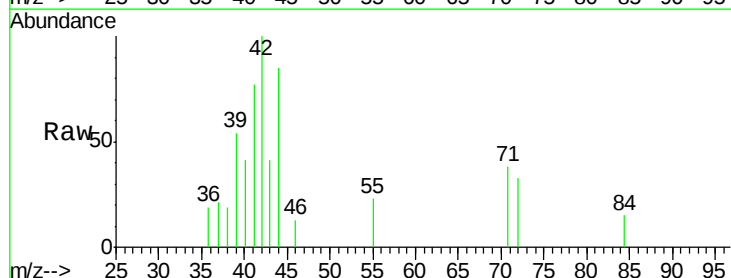
Tgt Ion: 42 Resp: 1595

Ion Ratio Lower Upper

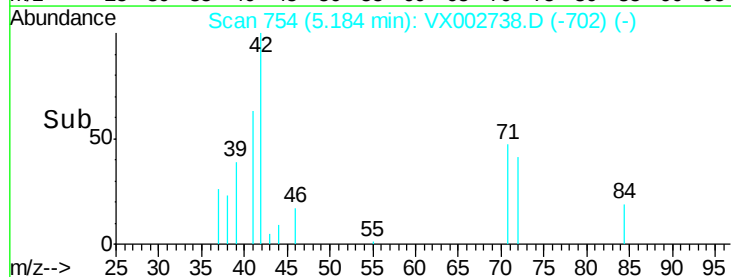
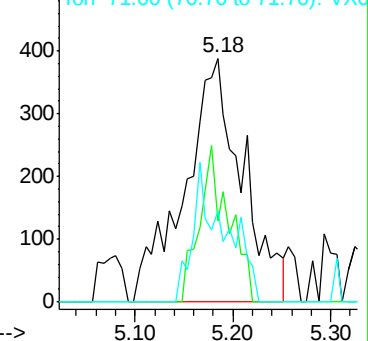
42 100

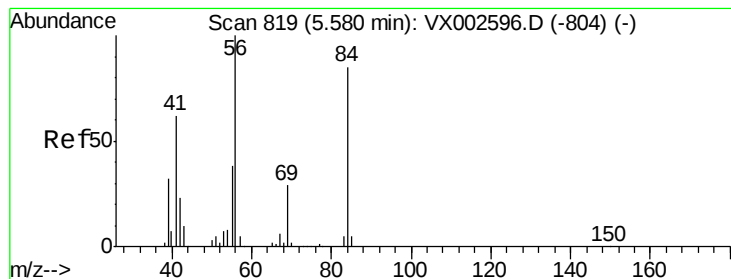
72 32.4 32.0 48.0

71 32.0 30.1 45.1



Abundance Ion 42.00 (41.70 to 42.70): VX002738.D (-702) (-)





#31

Cyclohexane

Concen: 1.20 ug/l

RT: 5.67 min Scan# 833

Delta R.T. 0.09 min

Lab File: VX002738.D

Acq: 20 Jun 2018 13:41

Instrument :
MSVOA_X
ClientSampled :

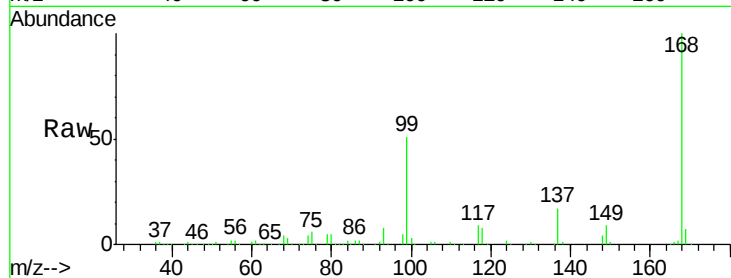
Tot Ion: 56 Resp: 4744

Ion Ratio Lower Upper

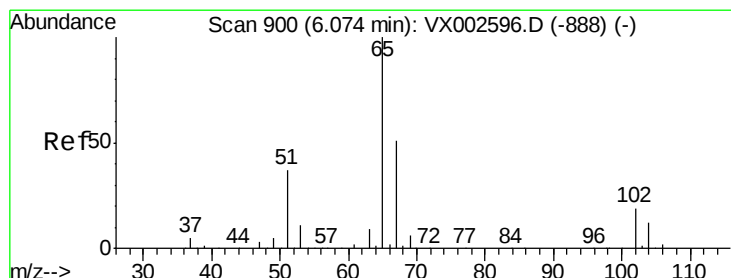
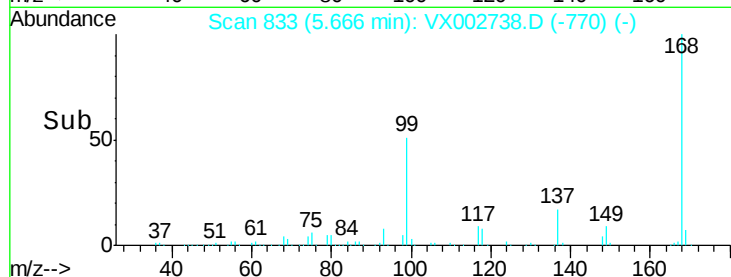
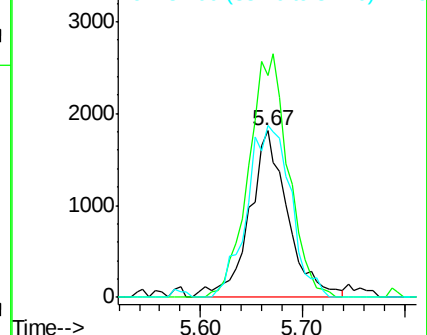
56 100

69 133.5 23.7 35.5#

84 109.8 64.1 96.1#



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: 44.61 ug/l

RT: 6.07 min Scan# 900

Delta R.T. 0.00 min

Lab File: VX002738.D

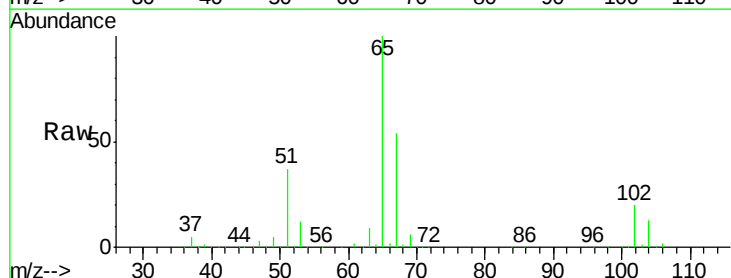
Acq: 20 Jun 2018 13:41

Tgt Ion: 65 Resp: 149297

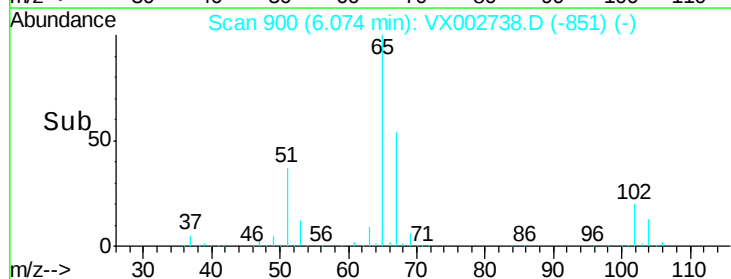
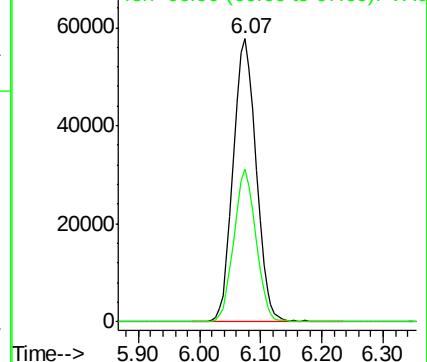
Ion Ratio Lower Upper

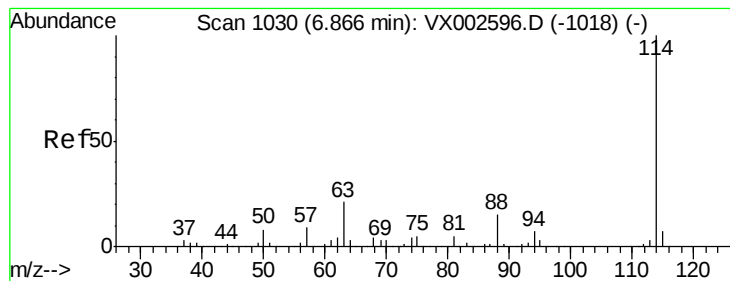
65 100

67 51.7 0.0 102.6



Abundance Ion 64.90 (64.60 to 65.60): VX0
Ion 66.90 (66.60 to 67.60): VX0





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 6.87 min Scan# 1030

Delta R.T. 0.00 min

Lab File: VX002738.D

Acq: 20 Jun 2018 13:41

Instrument :

MSVOA_X

ClientSampleId :

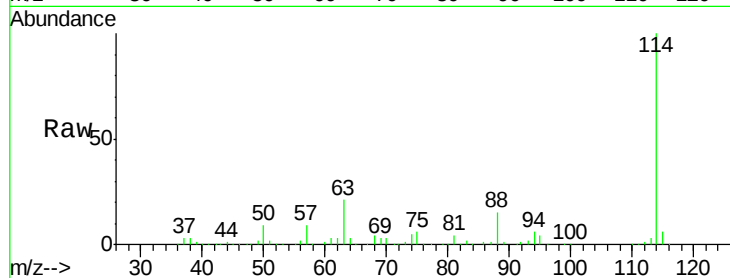
Tot Ion:114 Resp: 311418

Ion Ratio Lower Upper

114 100

63 20.5 0.0 41.4

88 15.0 0.0 30.0



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

6.87

150000

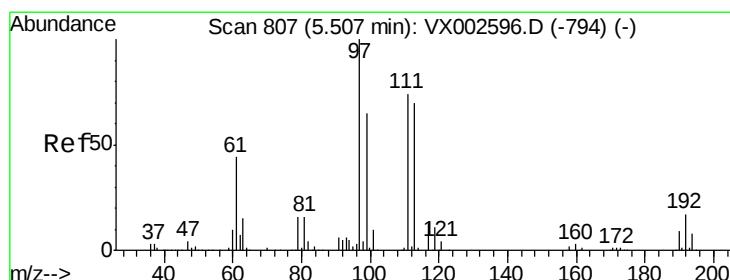
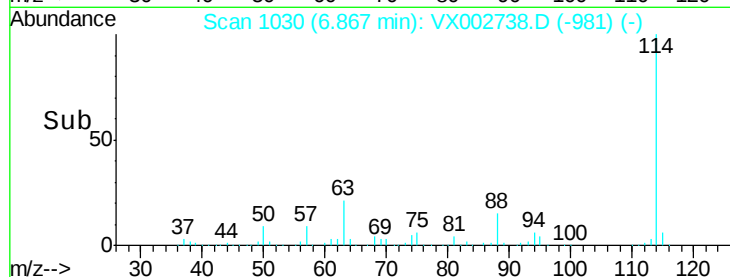
100000

50000

0

Time-->

6.70 6.80 6.90 7.00



#35

Dibromofluoromethane

Concen: 47.07 ug/l

RT: 5.51 min Scan# 807

Delta R.T. 0.00 min

Lab File: VX002738.D

Acq: 20 Jun 2018 13:41

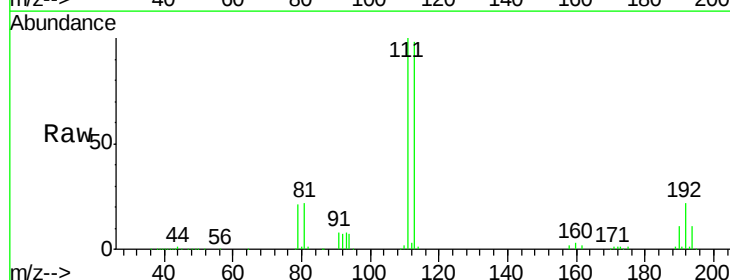
Tgt Ion:113 Resp: 116983

Ion Ratio Lower Upper

113 100

111 102.2 81.4 122.0

192 24.0 19.1 28.7



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

5.51

60000

50000

40000

30000

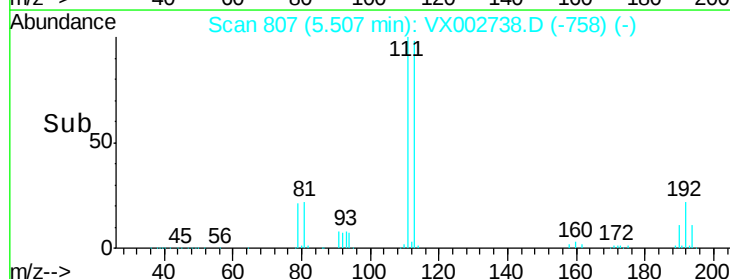
20000

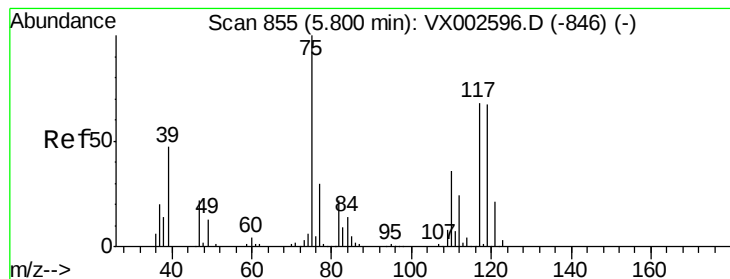
10000

0

Time-->

5.40 5.50 5.60





#36

1,1-Dichloropropene

Concen: 4.59 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.13 min

Lab File: VX002738.D

Acq: 20 Jun 2018 13:41

Instrument :
MSVOA_X
ClientSampleId :

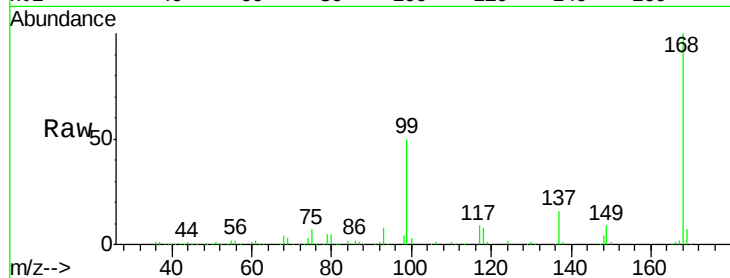
Tot Ion: 75 Resp: 15178

Ion Ratio Lower Upper

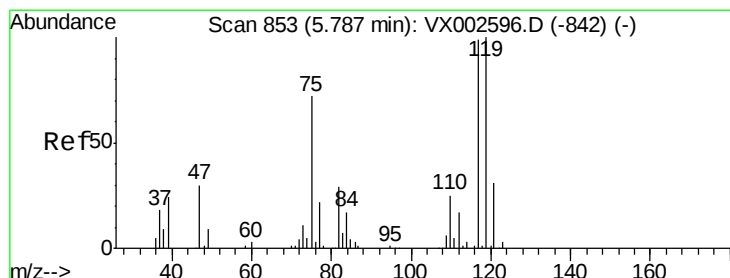
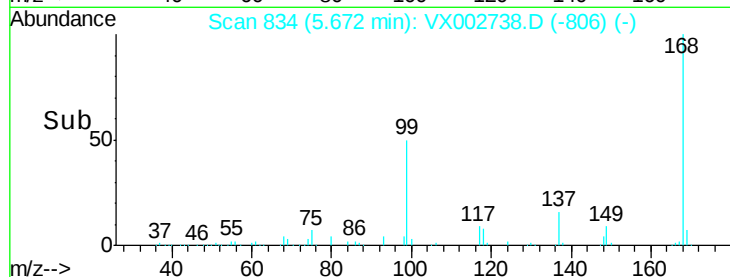
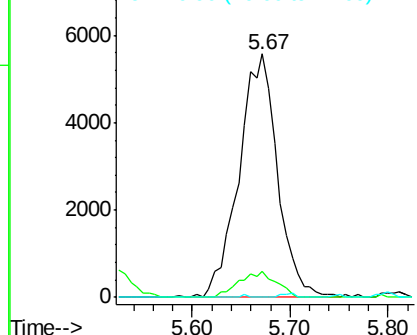
75 100

110 10.2 18.1 54.4#

77 0.2 24.3 36.5#



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: 5.98 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.12 min

Lab File: VX002738.D

Acq: 20 Jun 2018 13:41

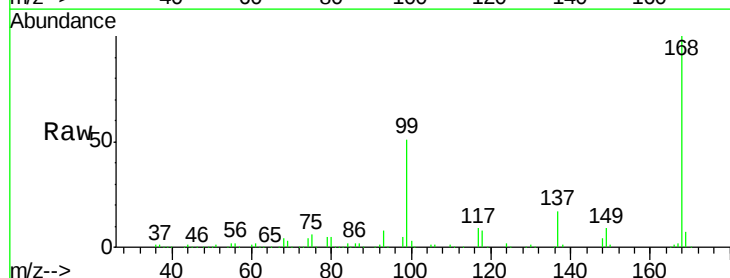
Tgt Ion: 117 Resp: 19700

Ion Ratio Lower Upper

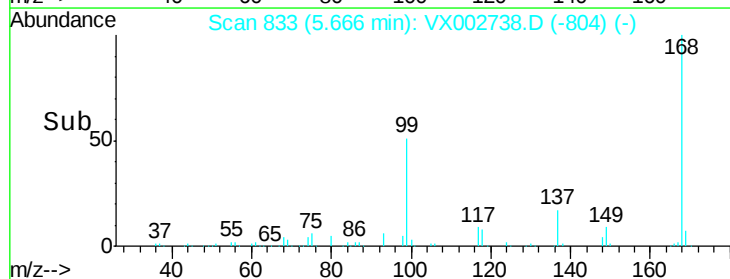
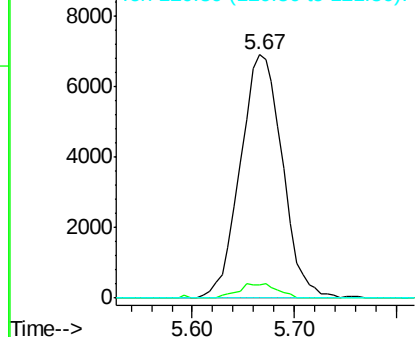
117 100

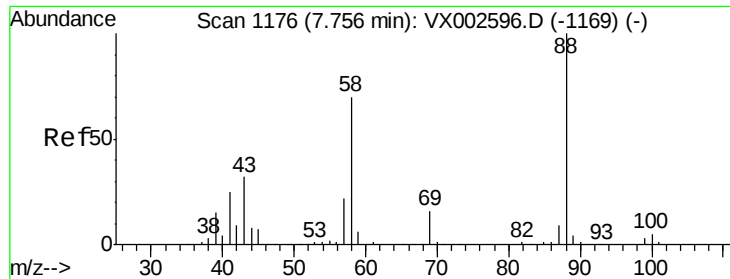
119 5.2 77.4 116.0#

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

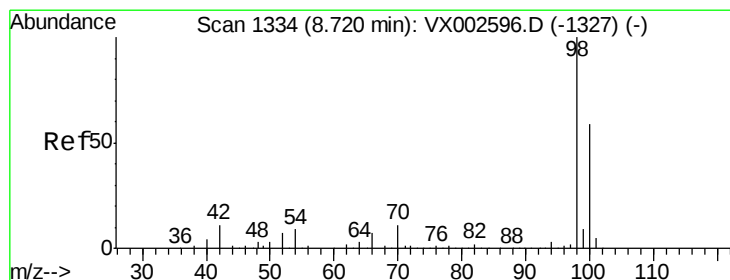
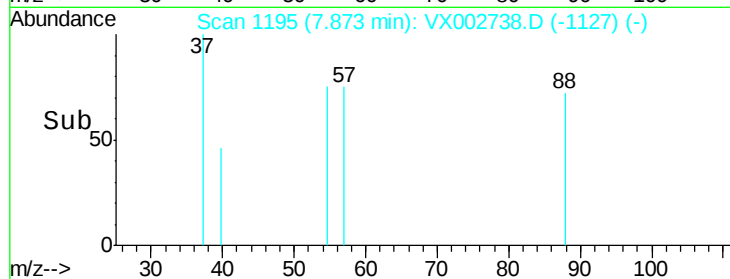
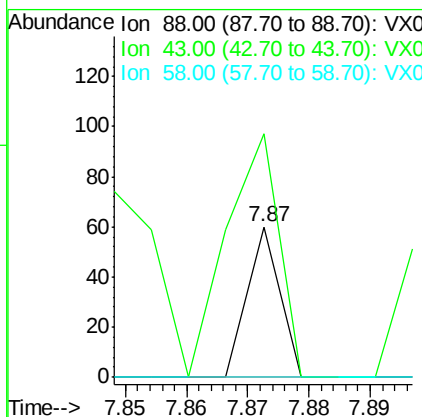
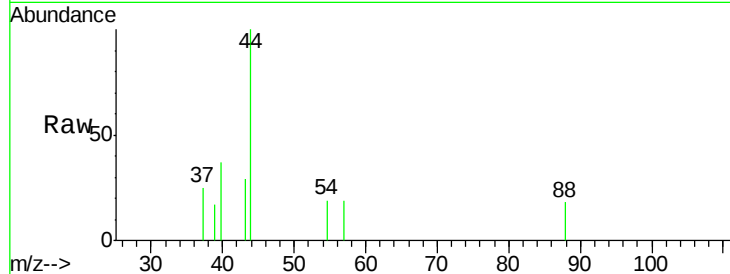




#49
 1,4-Dioxane
 Concen: 0.37 ug/l
 RT: 7.87 min Scan# 1195
 Delta R.T. 0.12 min
 Lab File: VX002738.D
 Acq: 20 Jun 2018 13:41

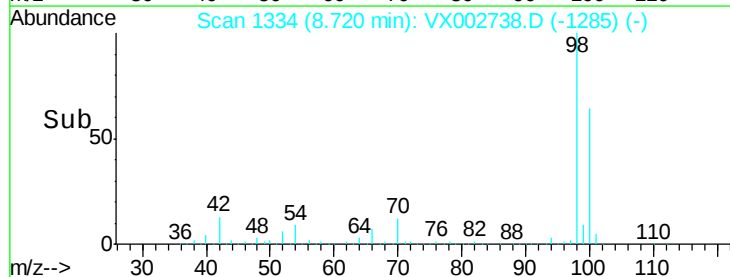
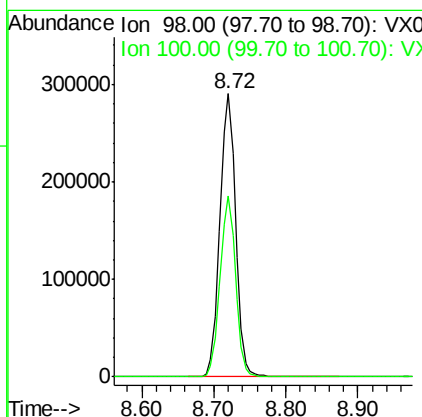
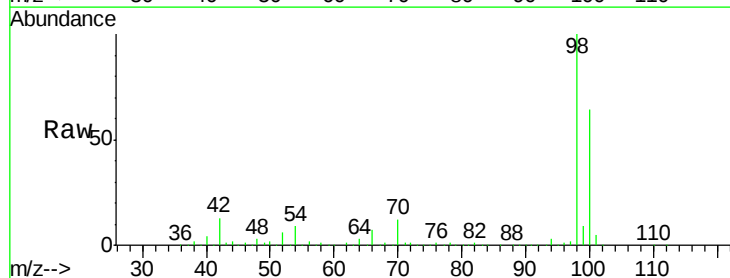
Instrument :
 MSVOA_X
 ClientSampled :

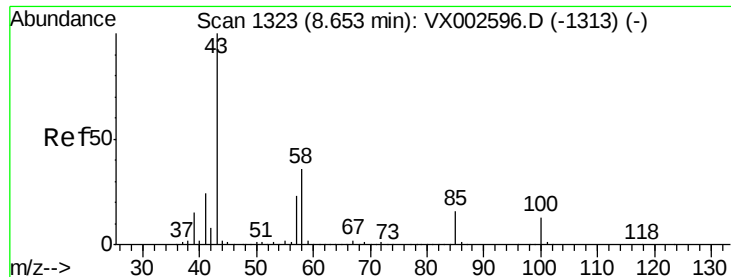
Tot Ion: 88 Resp: 22
 Ion Ratio Lower Upper
 88 100
 43 259.1 29.8 44.6#
 58 0.0 57.1 85.7#



#50
 Toluene-d8
 Concen: 46.74 ug/l
 RT: 8.72 min Scan# 1334
 Delta R.T. 0.00 min
 Lab File: VX002738.D
 Acq: 20 Jun 2018 13:41

Tgt Ion: 98 Resp: 441056
 Ion Ratio Lower Upper
 98 100
 100 63.1 50.9 76.3

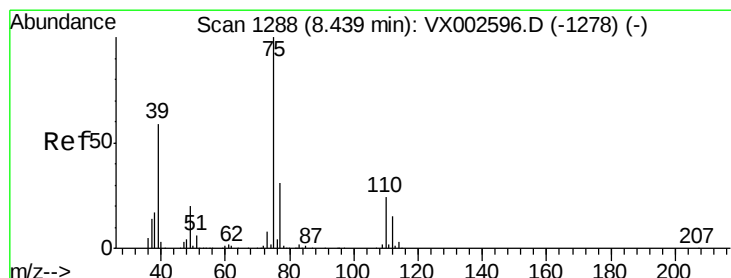
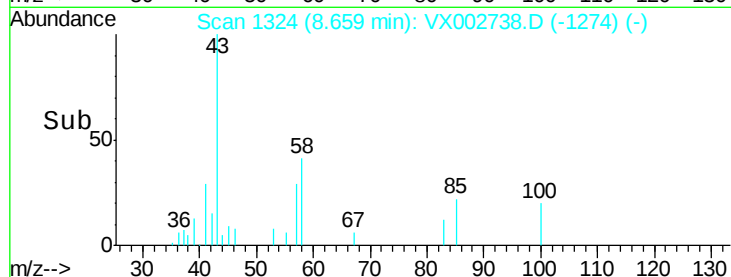
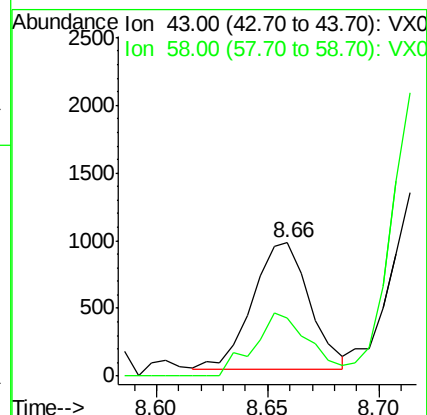
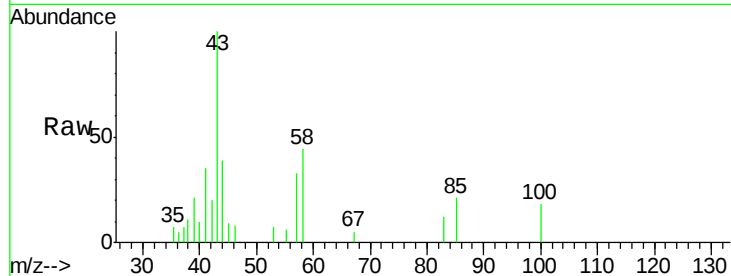




#51
4-Methyl-2-Pentanone
Concen: 0.42 ug/l
RT: 8.66 min Scan# 1324
Delta R.T. 0.01 min
Lab File: VX002738.D
Acq: 20 Jun 2018 13:41

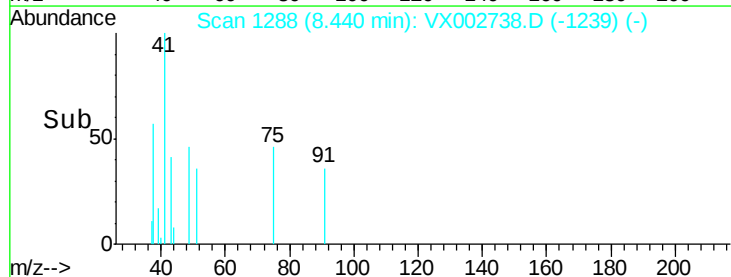
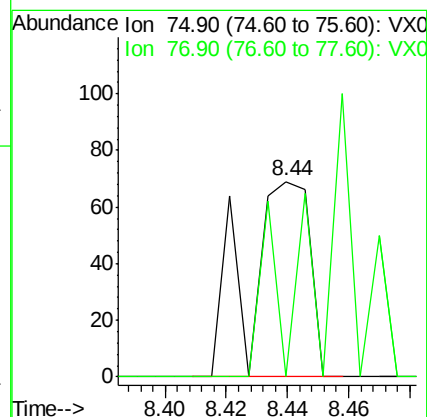
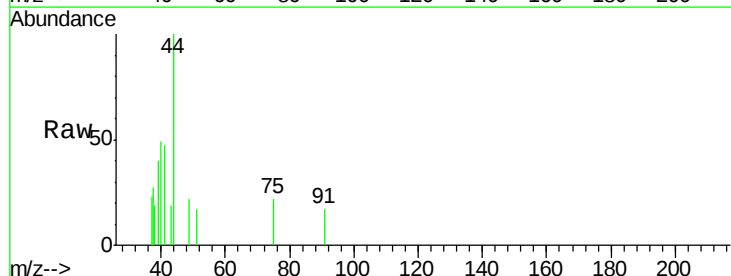
Instrument :
MSVOA_X
ClientSampled :

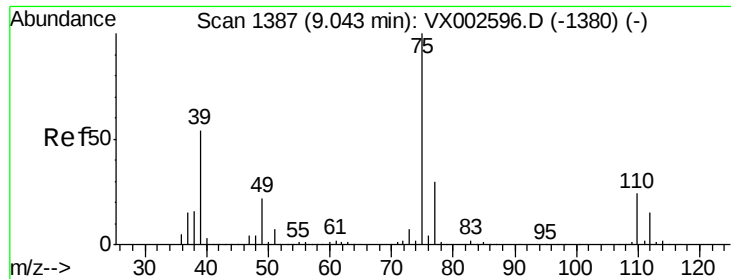
Tot Ion: 43 Resp: 1656
Ion Ratio Lower Upper
43 100
58 48.7 28.6 42.8#



#53
t-1,3-Dichloropropene
Concen: 2.42 ug/l
RT: 8.44 min Scan# 1288
Delta R.T. 0.00 min
Lab File: VX002738.D
Acq: 20 Jun 2018 13:41

Tgt Ion: 75 Resp: 96
Ion Ratio Lower Upper
75 100
77 0.0 25.4 38.2#



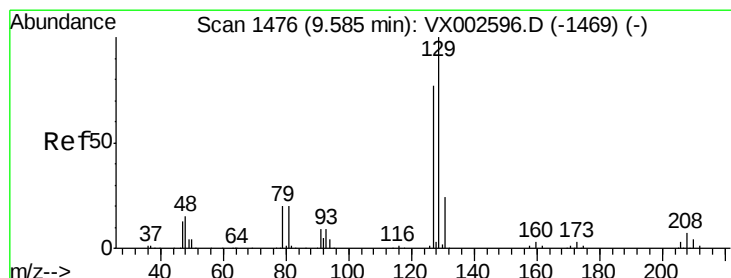
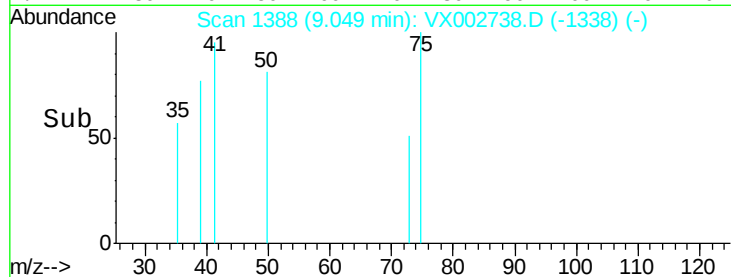
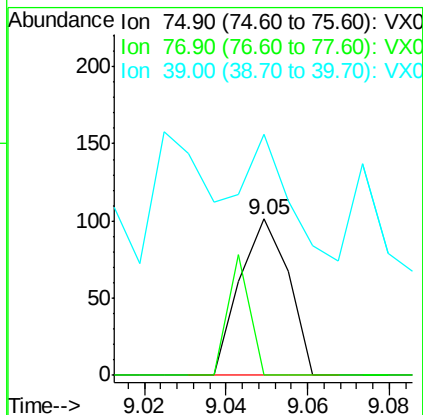
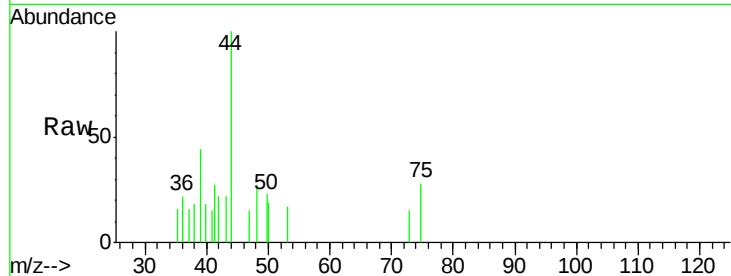


#54

cis-1,3-Dichloropropene
Concen: 3.23 ug/l
RT: 9.05 min Scan# 1388
Delta R.T. 0.01 min
Lab File: VX002738.D
Acq: 20 Jun 2018 13:41

Instrument :
MSVOA_X
ClientSampled :

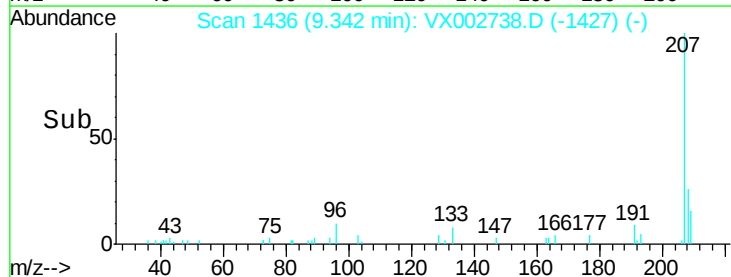
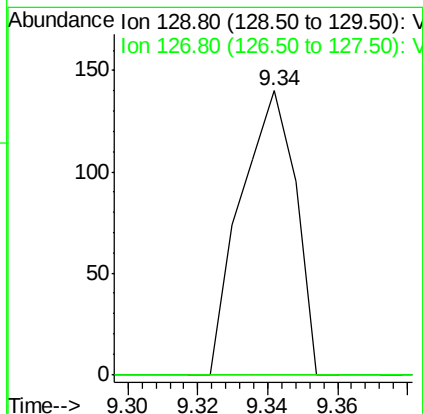
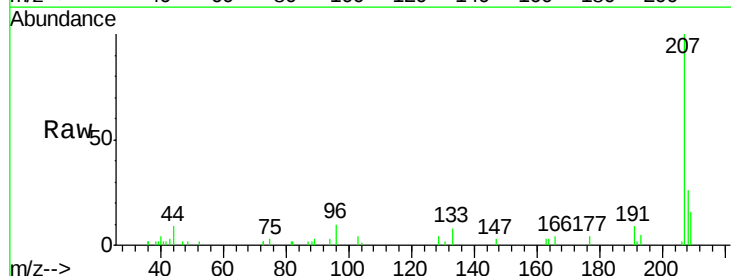
Tot Ion: 75 Resp: 84
Ion Ratio Lower Upper
75 100
77 0.0 24.8 37.2#
39 81.2 42.4 63.6#

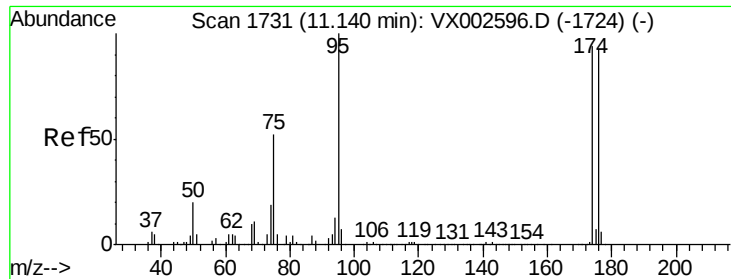


#60

Dibromochloromethane
Concen: 3.81 ug/l
RT: 9.34 min Scan# 1436
Delta R.T. -0.24 min
Lab File: VX002738.D
Acq: 20 Jun 2018 13:41

Tgt Ion: 129 Resp: 152
Ion Ratio Lower Upper
129 100
127 0.0 38.5 115.3#





#62

4-Bromofluorobenzene

Concen: 42.95 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.00 min

Lab File: VX002738.D

Acq: 20 Jun 2018 13:41

Instrument :

MSVOA_X

ClientSampleId :

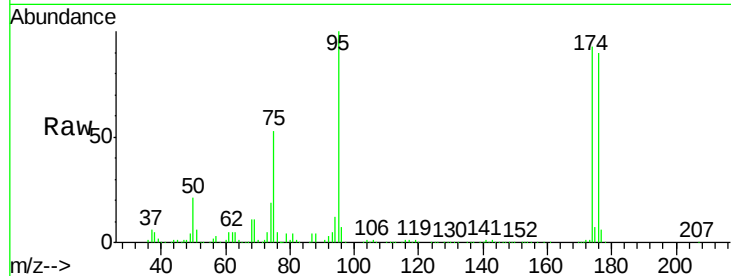
Tot Ion: 95 Resp: 153578

Ion Ratio Lower Upper

95 100

174 97.2 0.0 187.4

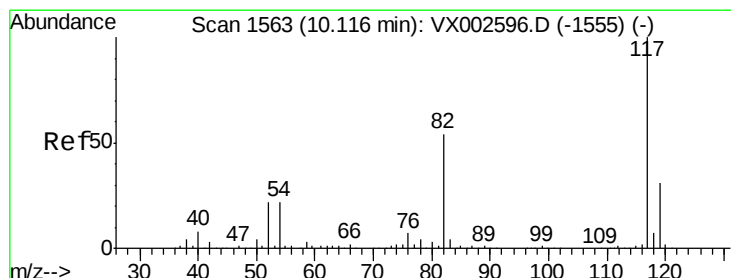
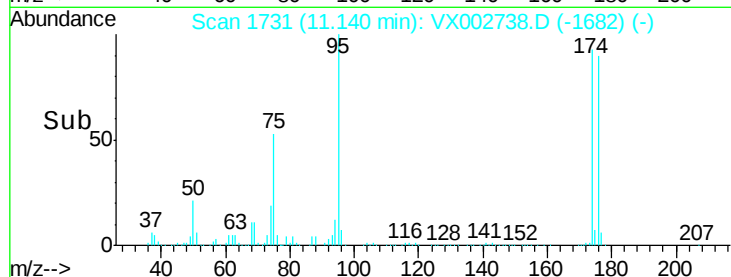
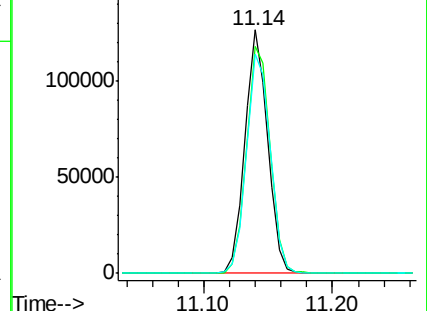
176 94.3 0.0 181.0



Abundance Ion 94.90 (94.60 to 95.60): VX002738.D (-1682) (-)

Ion 173.80 (173.50 to 174.50): VX002738.D (-1682) (-)

Ion 175.80 (175.50 to 176.50): VX002738.D (-1682) (-)



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 10.12 min Scan# 1563

Delta R.T. 0.00 min

Lab File: VX002738.D

Acq: 20 Jun 2018 13:41

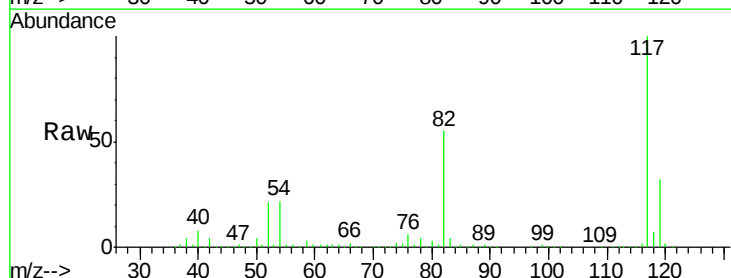
Tgt Ion: 117 Resp: 288392

Ion Ratio Lower Upper

117 100

82 54.8 45.0 67.4

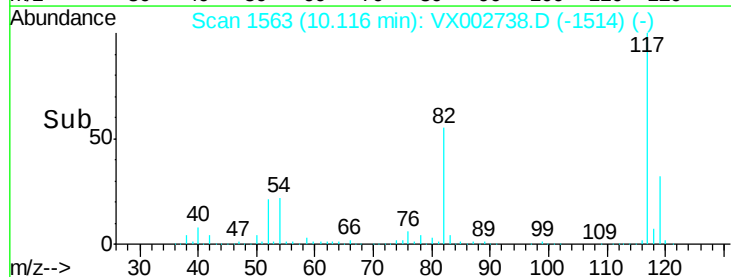
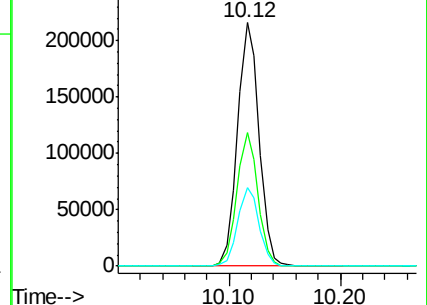
119 32.1 25.8 38.6

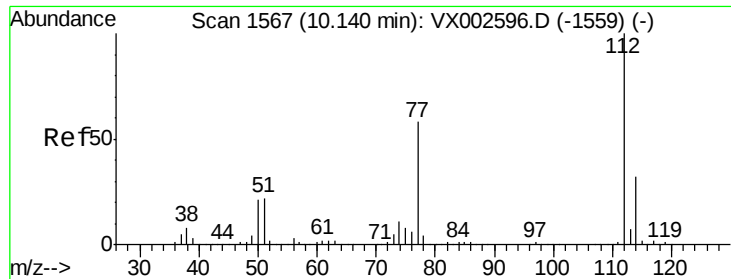


Abundance Ion 116.90 (116.60 to 117.60): VX002738.D (-1514) (-)

Ion 82.00 (81.70 to 82.70): VX002738.D (-1514) (-)

Ion 118.90 (118.60 to 119.60): VX002738.D (-1514) (-)





#65

Chlorobenzene

Concen: 0.46 ug/l

RT: 10.14 min Scan# 1567

Delta R.T. 0.00 min

Lab File: VX002738.D

Acq: 20 Jun 2018 13:41

Instrument :

MSVOA_X

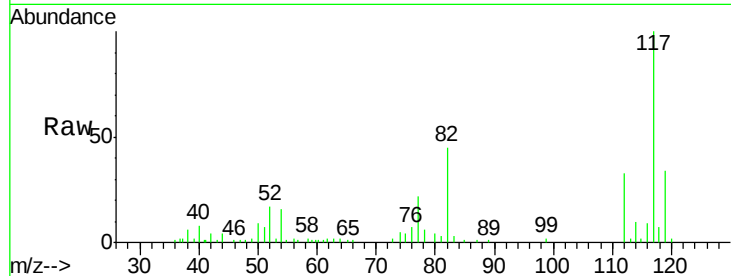
ClientSampled :

Tot Ion:112 Resp: 3235

Ion Ratio Lower Upper

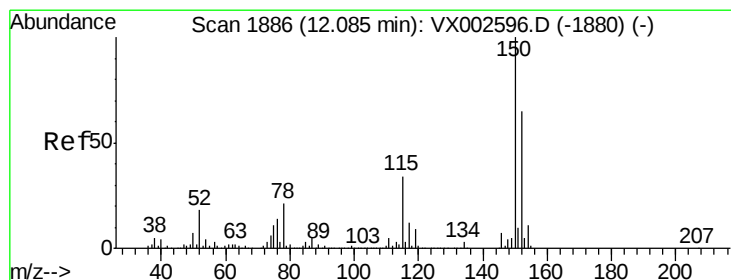
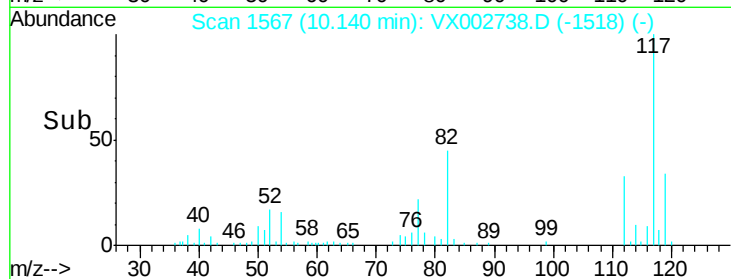
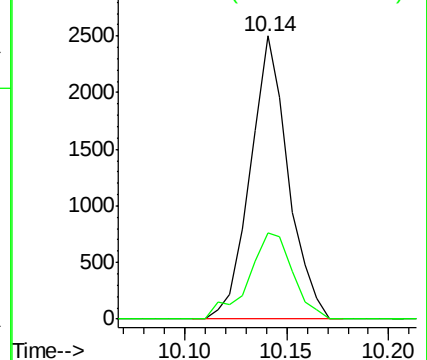
112 100

114 30.3 25.3 37.9



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.09 min Scan# 1886

Delta R.T. 0.00 min

Lab File: VX002738.D

Acq: 20 Jun 2018 13:41

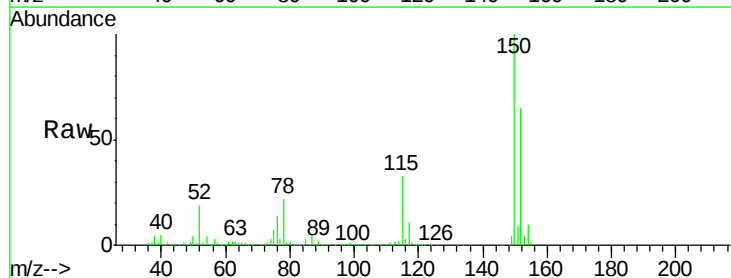
Tgt Ion:152 Resp: 161751

Ion Ratio Lower Upper

152 100

115 54.5 40.1 120.2

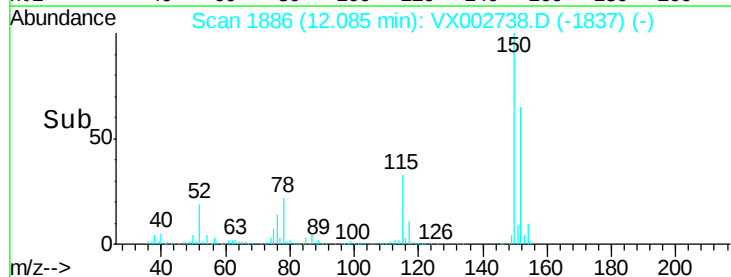
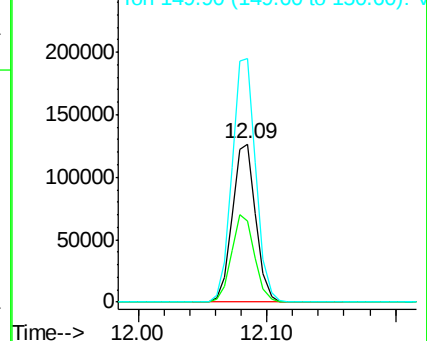
150 156.3 0.0 347.2

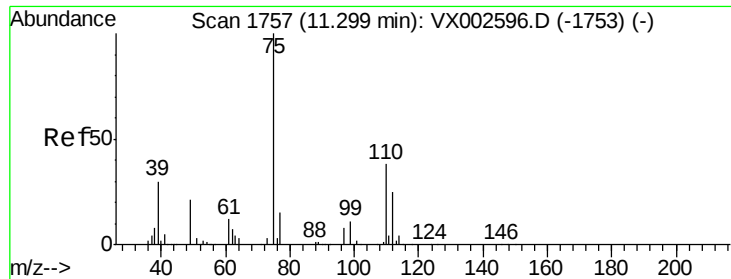


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V

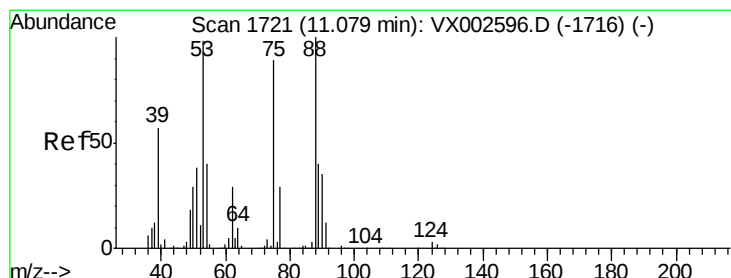
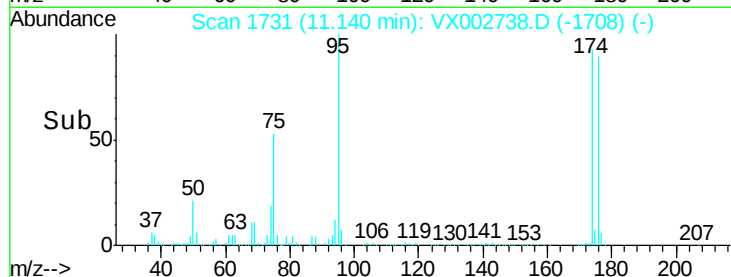
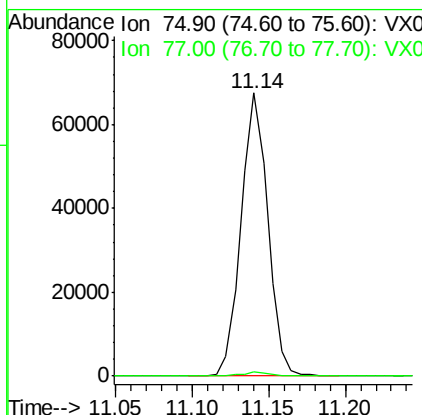
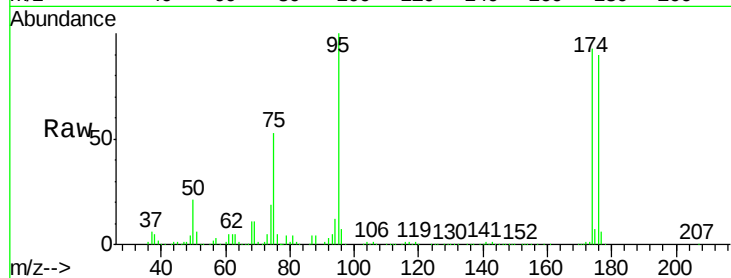




#76
 1,2,3-Trichloropropane
 Concen: 26.79 ug/l
 RT: 11.14 min Scan# 1731
 Delta R.T. -0.16 min
 Lab File: VX002738.D
 Acq: 20 Jun 2018 13:41

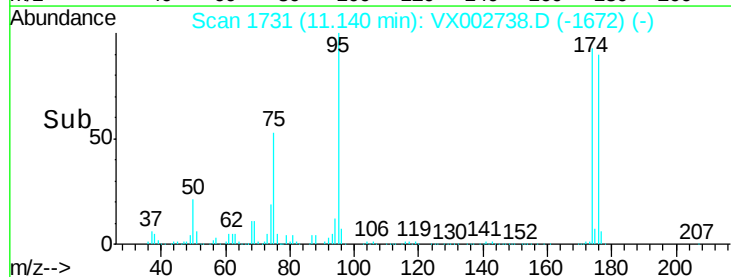
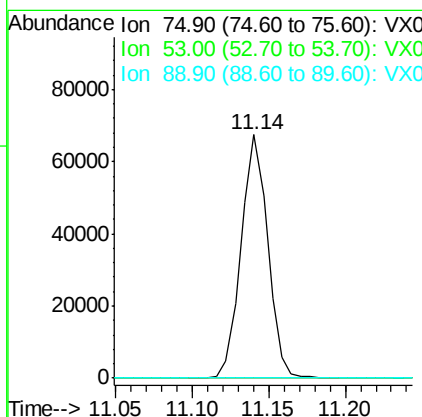
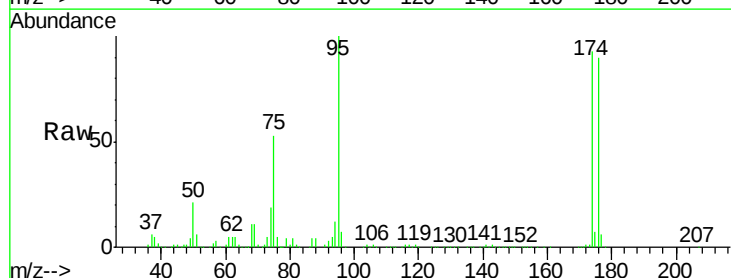
Instrument :
 MSVOA_X
 ClientSampled :

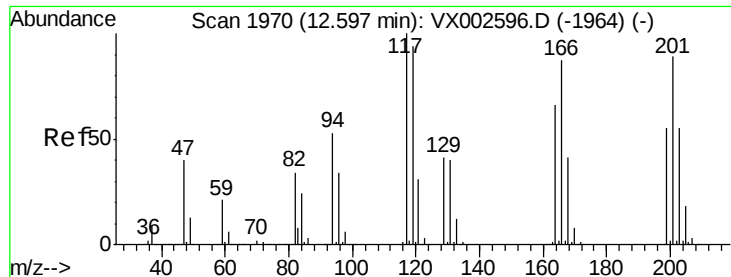
Tot Ion: 75 Resp: 81769
 Ion Ratio Lower Upper
 75 100
 77 1.4 22.8 68.3#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 82.73 ug/l
 RT: 11.14 min Scan# 1731
 Delta R.T. 0.06 min
 Lab File: VX002738.D
 Acq: 20 Jun 2018 13:41

Tgt Ion: 75 Resp: 81769
 Ion Ratio Lower Upper
 75 100
 53 0.1 86.8 130.2#
 89 0.0 38.2 57.2#





#90

Hexachloroethane

Concen: 2.64 ug/l

RT: 12.61 min Scan# 1972

Delta R.T. 0.01 min

Lab File: VX002738.D

Acq: 20 Jun 2018 13:41

Instrument :

MSVOA_X

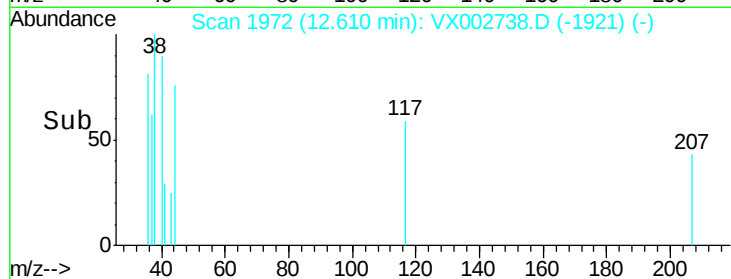
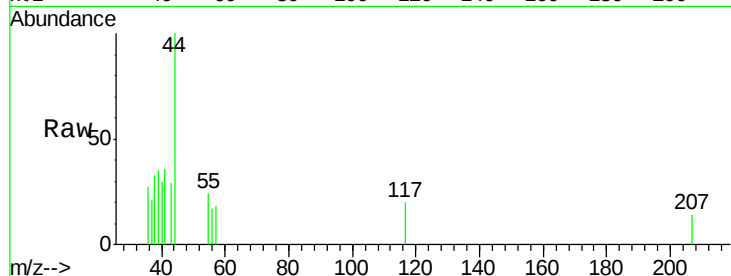
ClientSampleId :

Tot Ion:117 Resp: 27

Ion Ratio Lower Upper

117 100

201 0.0 49.0 147.0#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V

