

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX061518\
 Data File : VX002632.D
 Acq On : 16 Jun 2018 08:05
 Operator : JC/MD
 Sample : J3477-05
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 43 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jun 18 06:07:41 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	213373	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	307758	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	285509	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	156247	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	148149	45.69	ug/l	0.00
Spiked Amount			Recovery	=	91.38%	
35) Dibromofluoromethane	5.51	113	112391	45.76	ug/l	0.00
Spiked Amount			Recovery	=	91.52%	
50) Toluene-d8	8.72	98	435820	46.73	ug/l	0.00
Spiked Amount			Recovery	=	93.46%	
62) 4-Bromofluorobenzene	11.14	95	150554	42.60	ug/l	0.00
Spiked Amount			Recovery	=	85.20%	

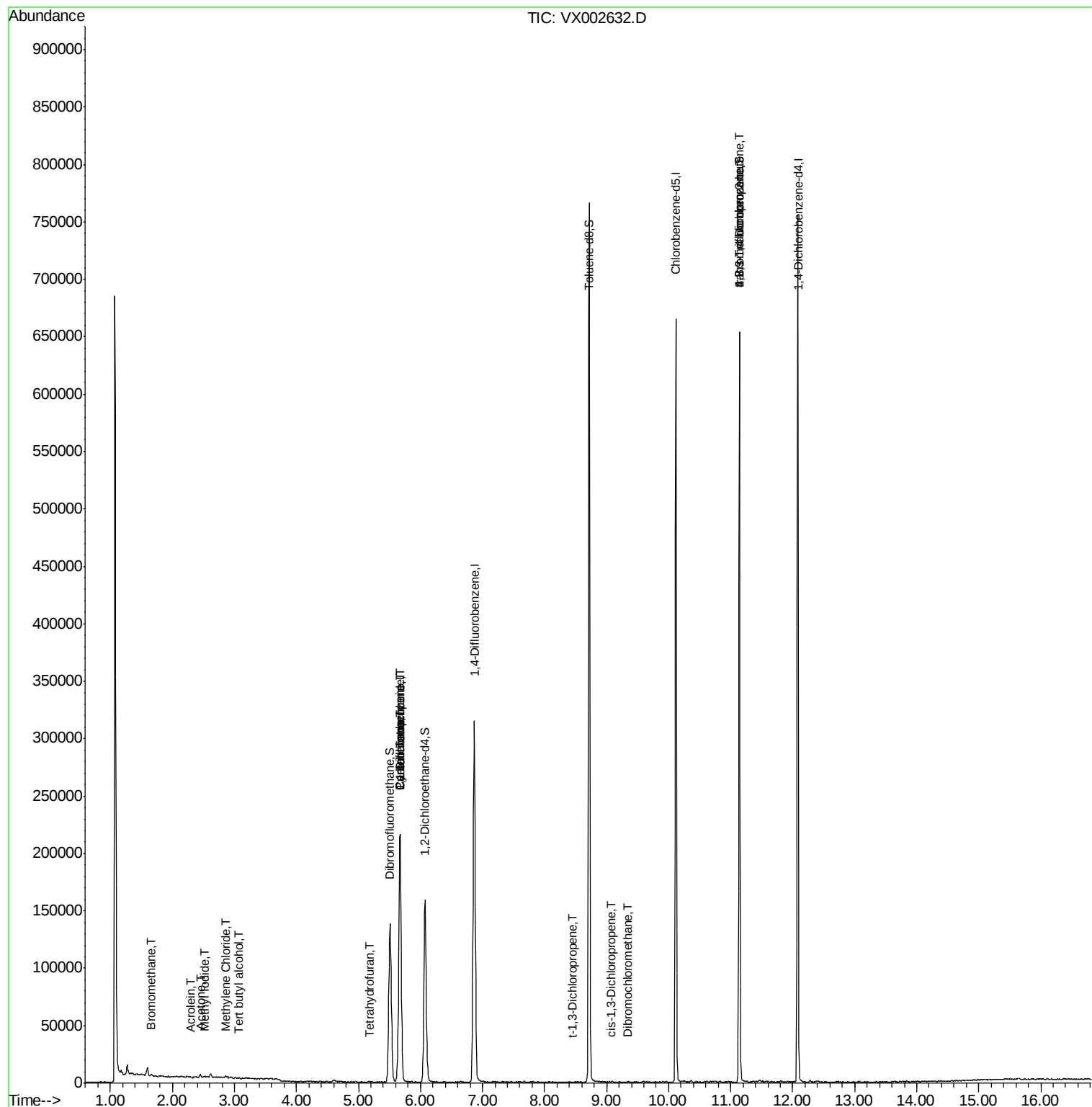
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.66	94	1144	0.68	ug/l	96
10) Methyl Iodide	2.53	142	1330	5.53	ug/l #	94
11) Tert butyl alcohol	3.08	59	333	0.50	ug/l #	94
13) Acrolein	2.31	56	155	7.34	ug/l #	25
16) Acetone	2.45	43	2328	1.63	ug/l #	84
20) Methylene Chloride	2.86	84	596	0.20	ug/l #	79
29) Tetrahydrofuran	5.17	42	418	0.34	ug/l #	67
31) Cyclohexane	5.67	56	4451	1.16	ug/l #	25
36) 1,1-Dichloropropene	5.67	75	15149	4.63	ug/l #	51
38) Carbon Tetrachloride	5.67	117	19514	6.00	ug/l #	16
53) t-1,3-Dichloropropene	8.44	75	74	2.41	ug/l #	43
54) cis-1,3-Dichloropropene	9.07	75	24	3.22	ug/l #	32
60) Dibromochloromethane	9.34	129	47	3.78	ug/l #	11
76) 1,2,3-Trichloropropane	11.14	75	79437	26.94	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.14	75	79437	83.18	ug/l #	6

(#) = 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# 834

Delta R.T. -0.00 min

Lab File: VX002632.D

Acq: 16 Jun 2018 08:05

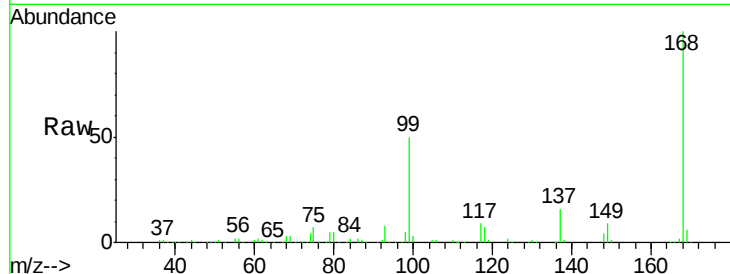
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:168 Resp: 213373

Ion Ratio Lower Upper

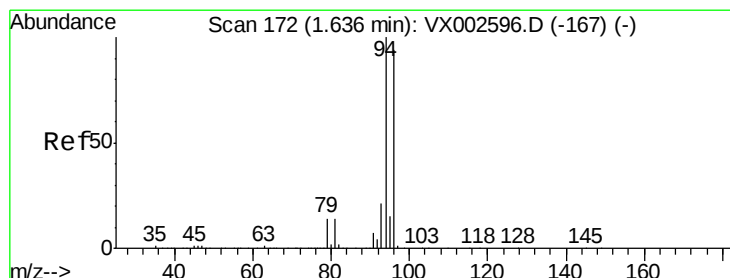
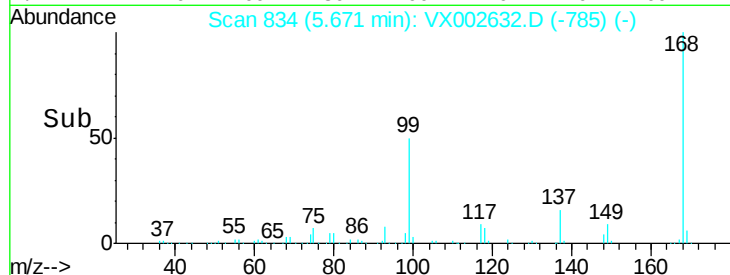
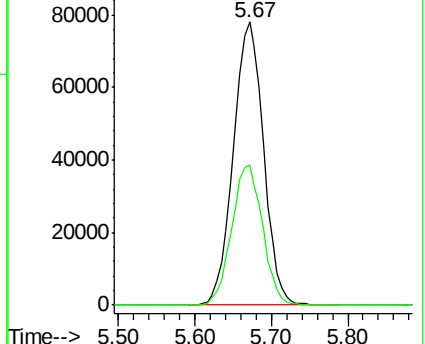
168 100

99 49.5 39.3 58.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#5

Bromomethane

Concen: 0.68 ug/l

RT: 1.66 min Scan# 176

Delta R.T. 0.02 min

Lab File: VX002632.D

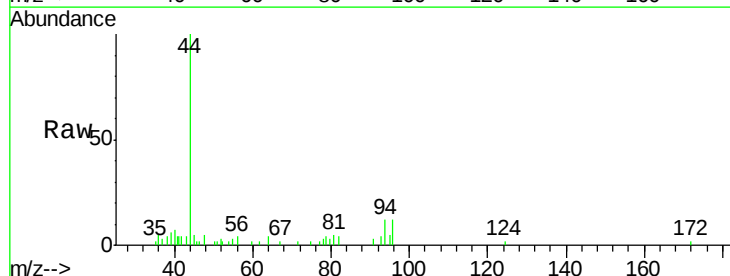
Acq: 16 Jun 2018 08:05

Tgt Ion: 94 Resp: 1144

Ion Ratio Lower Upper

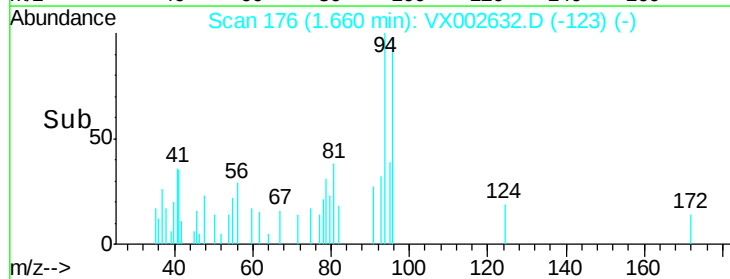
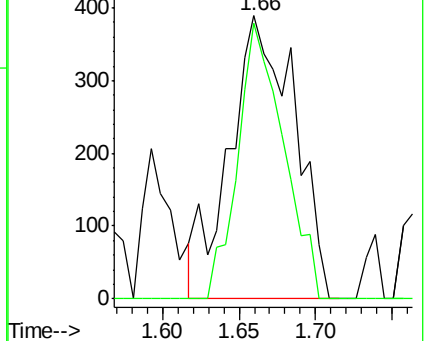
94 100

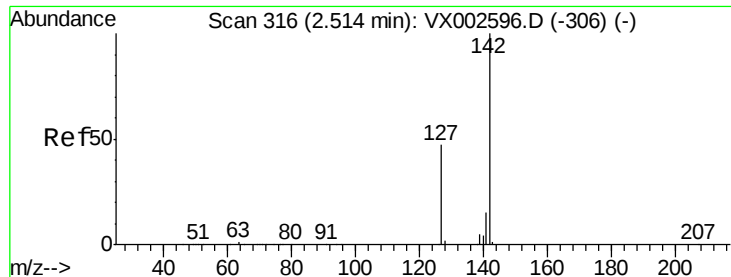
96 97.4 74.9 112.3



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

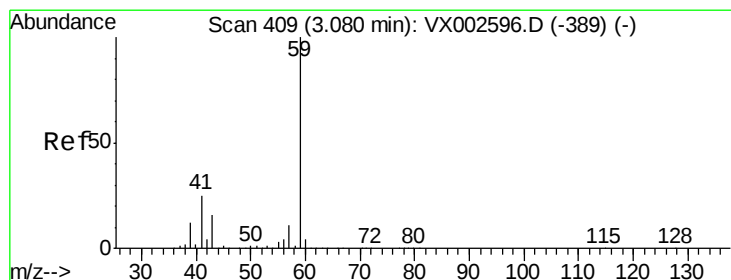
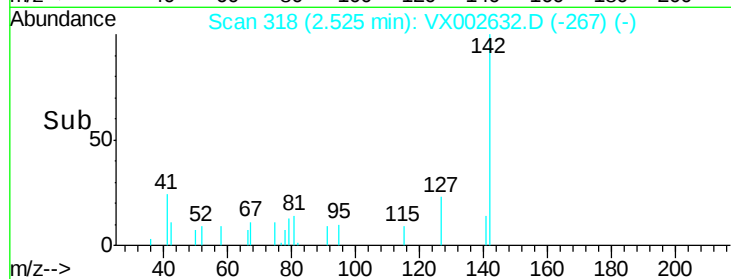
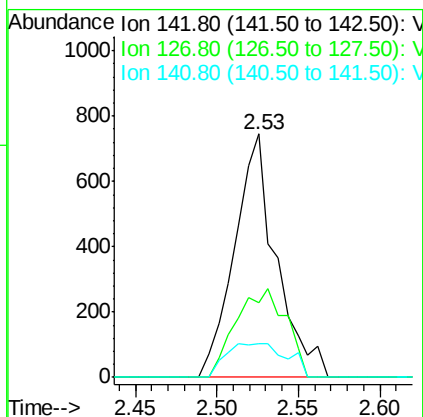
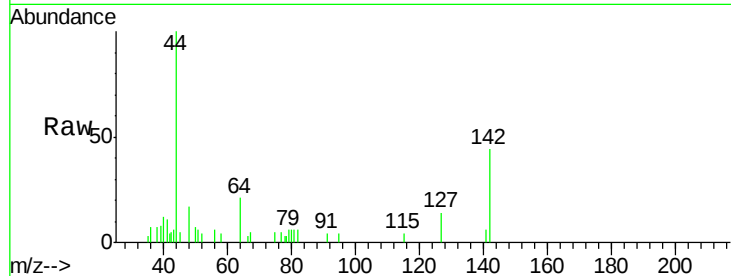




#10
Methyl Iodide
Concen: 5.53 ug/l
RT: 2.53 min Scan# 318
Delta R.T. 0.01 min
Lab File: VX002632.D
Acq: 16 Jun 2018 08:05

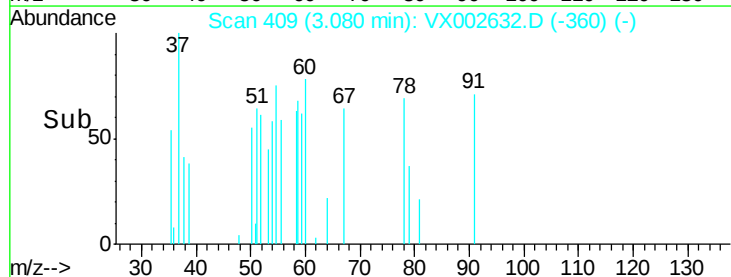
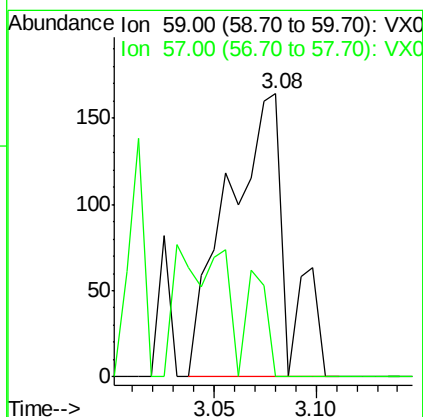
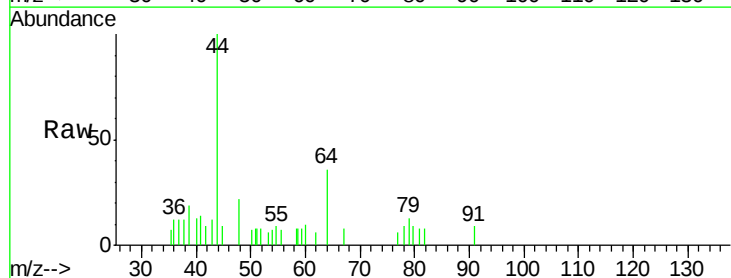
Instrument :
MSVOA_X
ClientSampleId :

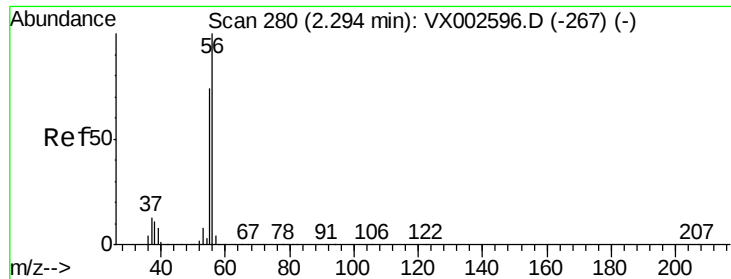
Tot Ion:142 Resp: 1330
Ion Ratio Lower Upper
142 100
127 43.7 36.6 55.0
141 20.4 11.3 16.9#



#11
Tert butyl alcohol
Concen: 0.50 ug/l
RT: 3.08 min Scan# 409
Delta R.T. -0.00 min
Lab File: VX002632.D
Acq: 16 Jun 2018 08:05

Tgt Ion: 59 Resp: 333
Ion Ratio Lower Upper
59 100
57 12.6 8.2 12.2#





#13

Acrolein

Concen: 7.34 ug/l

RT: 2.31 min Scan# 282

Delta R.T. 0.01 min

Lab File: VX002632.D

Acq: 16 Jun 2018 08:05

Instrument :

MSVOA_X

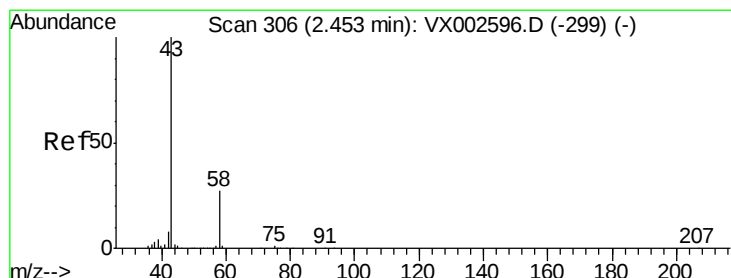
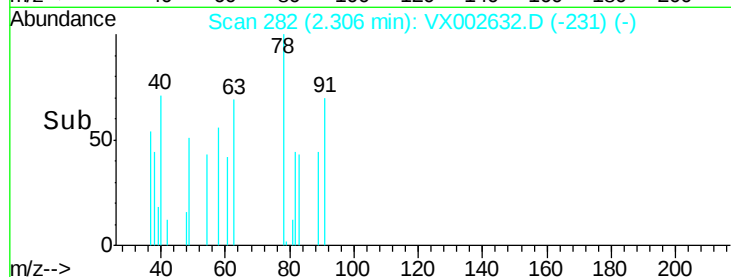
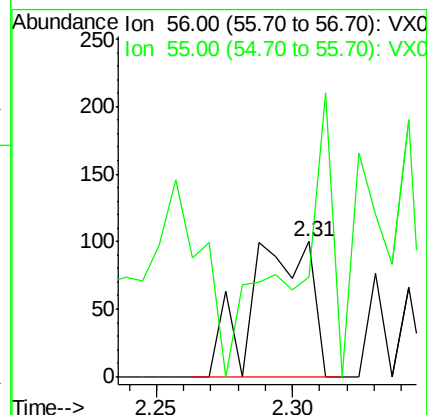
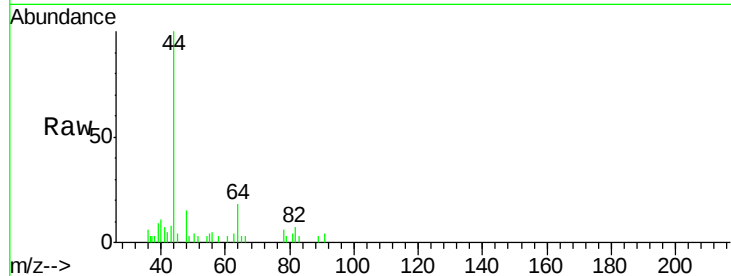
ClientSampled :

Tot Ion: 56 Resp: 155

Ion Ratio Lower Upper

56 100

55 132.9 57.0 85.4#



#16

Acetone

Concen: 1.63 ug/l

RT: 2.45 min Scan# 305

Delta R.T. -0.01 min

Lab File: VX002632.D

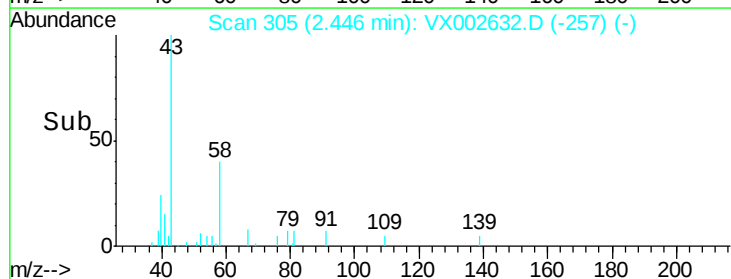
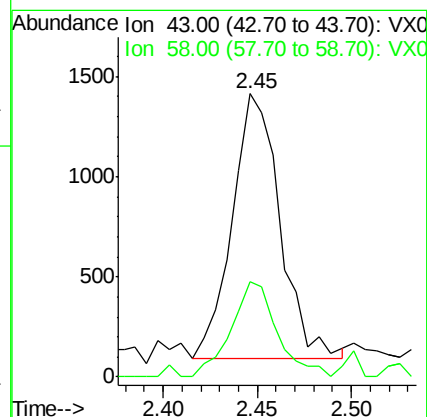
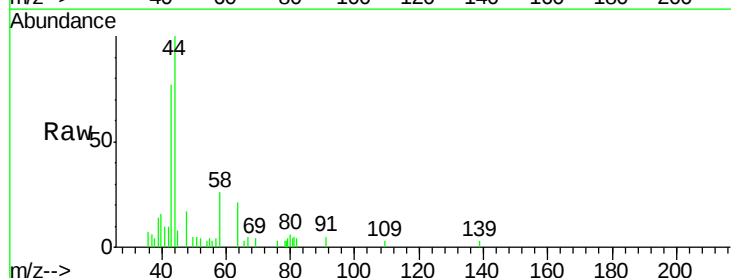
Acq: 16 Jun 2018 08:05

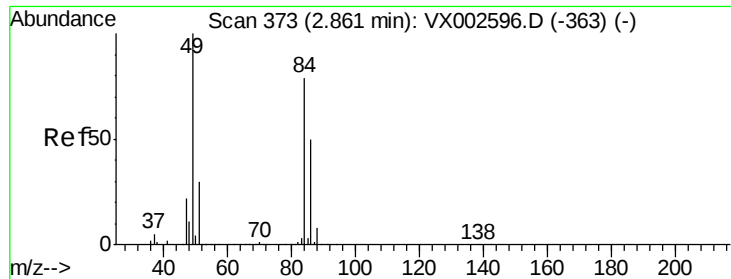
Tgt Ion: 43 Resp: 2328

Ion Ratio Lower Upper

43 100

58 35.9 22.1 33.1#





#20

Methylene Chloride

Concen: 0.20 ug/l

RT: 2.86 min Scan# 373

Delta R.T. -0.00 min

Lab File: VX002632.D

Acq: 16 Jun 2018 08:05

Instrument :

MSVOA_X

ClientSampled :

Tot Ion: 84 Resp: 596

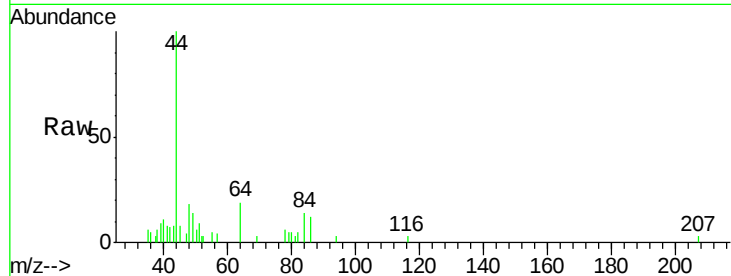
Ion Ratio Lower Upper

84 100

49 103.4 107.8 161.6#

51 37.6 32.8 49.2

86 82.5 52.5 78.7#

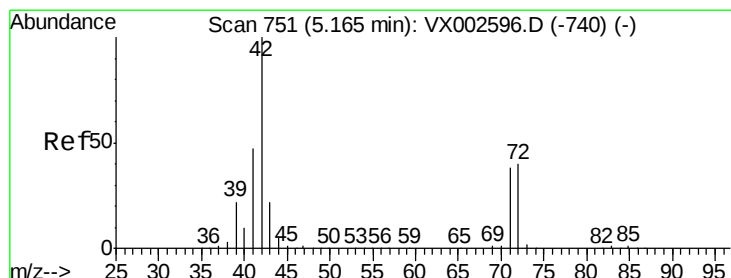
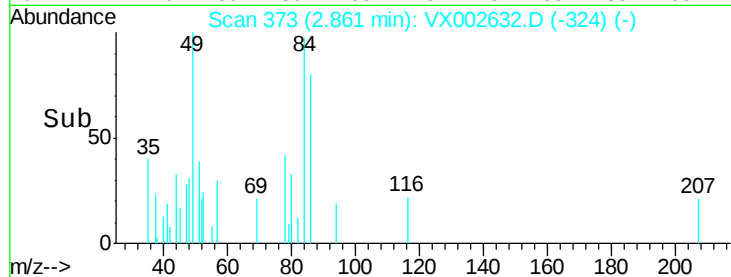
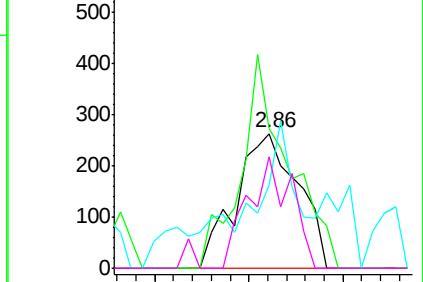


Abundance Ion 83.90 (83.60 to 84.60): VX0

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



#29

Tetrahydrofuran

Concen: 0.34 ug/l

RT: 5.17 min Scan# 752

Delta R.T. 0.01 min

Lab File: VX002632.D

Acq: 16 Jun 2018 08:05

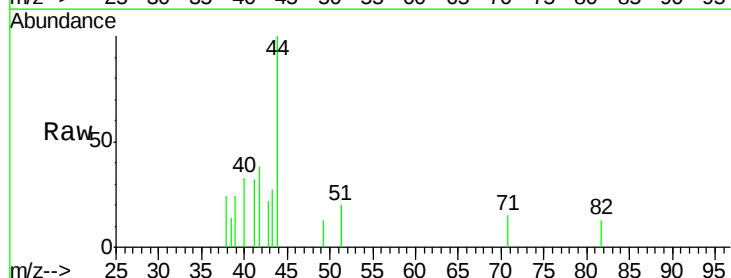
Tgt Ion: 42 Resp: 418

Ion Ratio Lower Upper

42 100

72 12.2 32.0 48.0#

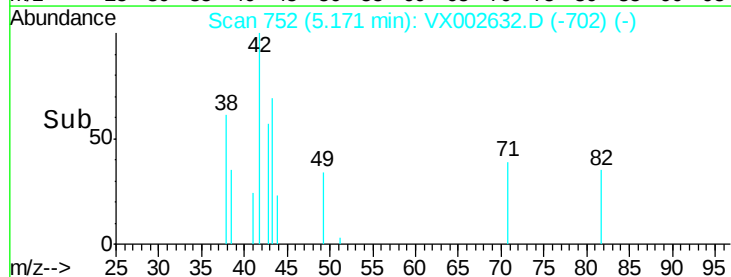
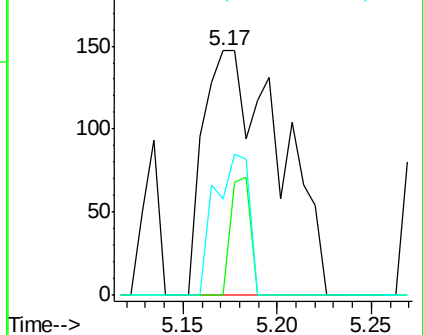
71 25.4 30.1 45.1#

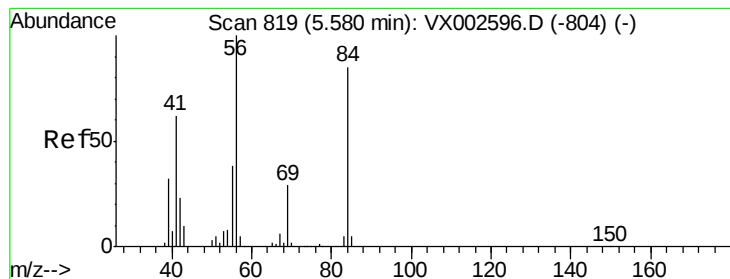


Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0





#31

Cyclohexane

Concen: 1.16 ug/l

RT: 5.67 min Scan# 834

Delta R.T. 0.09 min

Lab File: VX002632.D

Acq: 16 Jun 2018 08:05

Instrument :

MSVOA_X

ClientSampleId :

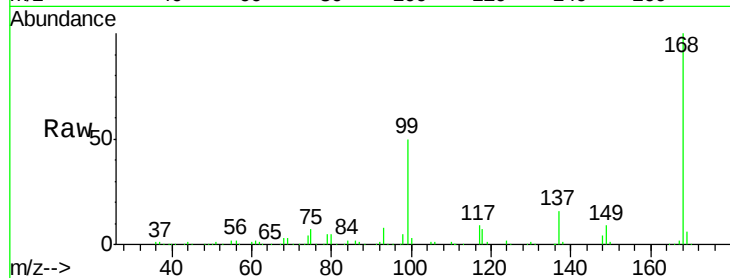
Tot Ion: 56 Resp: 4451

Ion Ratio Lower Upper

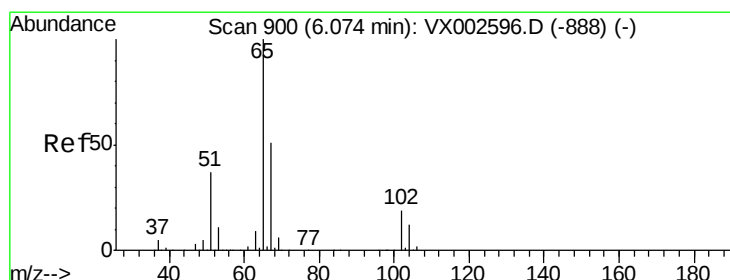
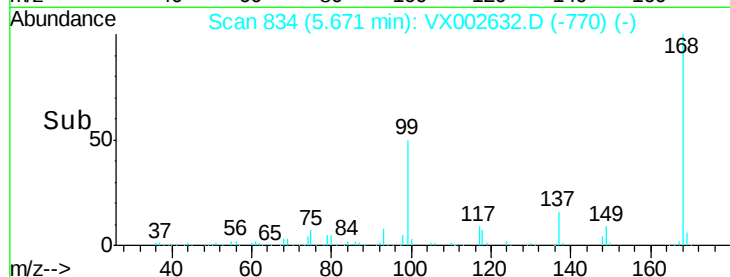
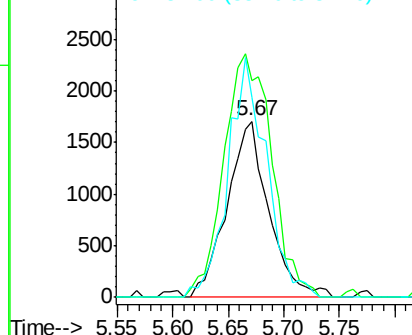
56 100

69 123.4 23.7 35.5#

84 113.5 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: 45.69 ug/l

RT: 6.07 min Scan# 900

Delta R.T. 0.00 min

Lab File: VX002632.D

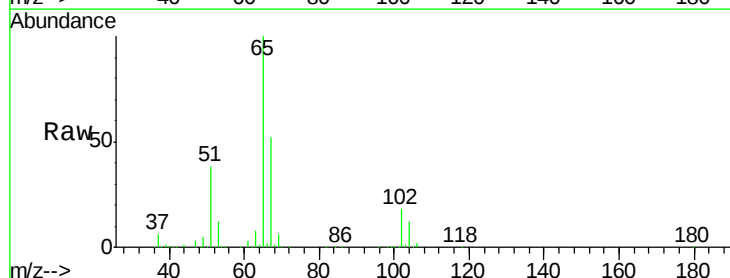
Acq: 16 Jun 2018 08:05

Tgt Ion: 65 Resp: 148149

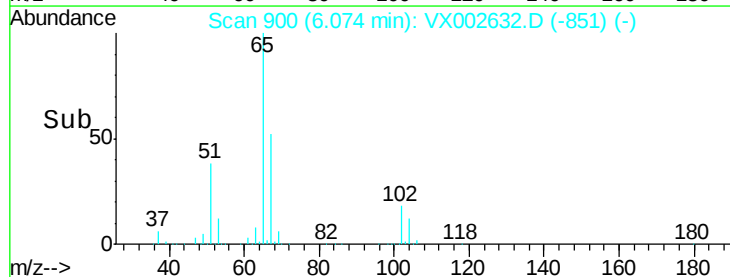
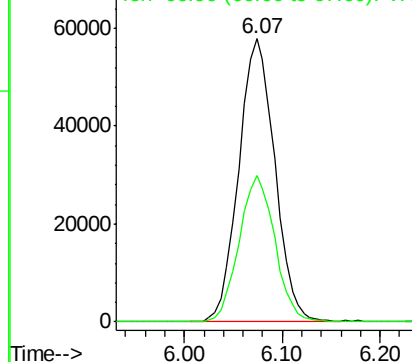
Ion Ratio Lower Upper

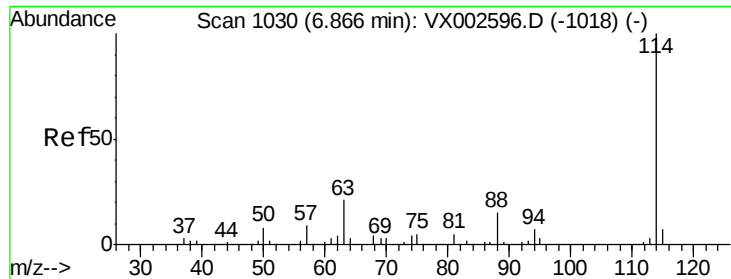
65 100

67 51.3 0.0 102.6



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

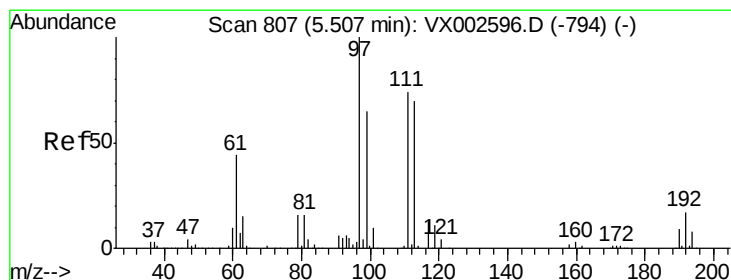
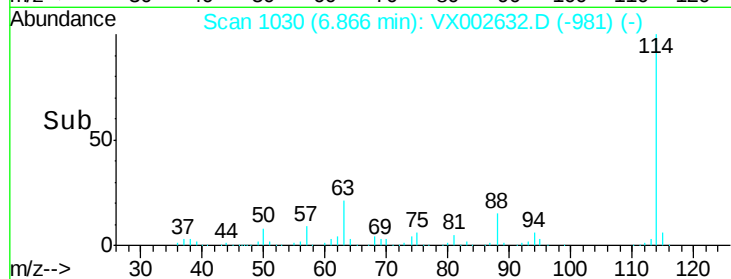
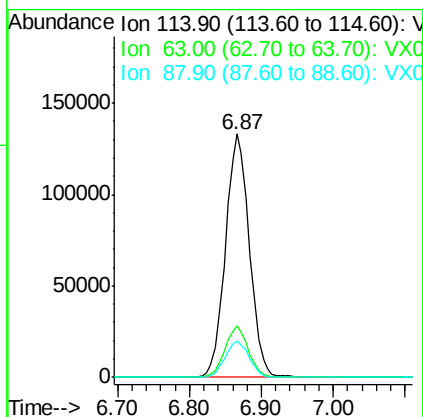
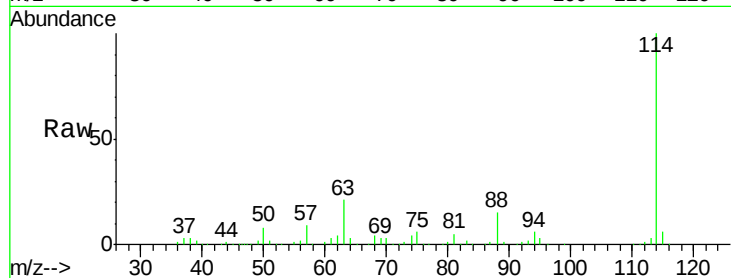




#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.87 min Scan# 1030
 Delta R.T. -0.00 min
 Lab File: VX002632.D
 Acq: 16 Jun 2018 08:05

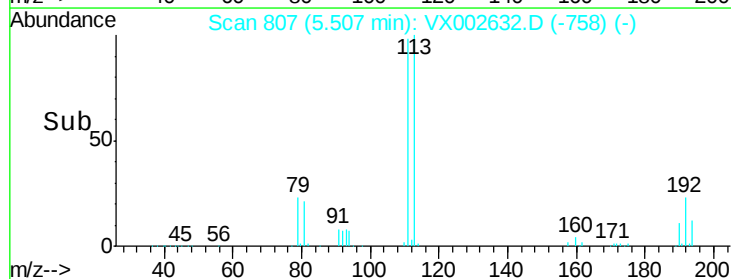
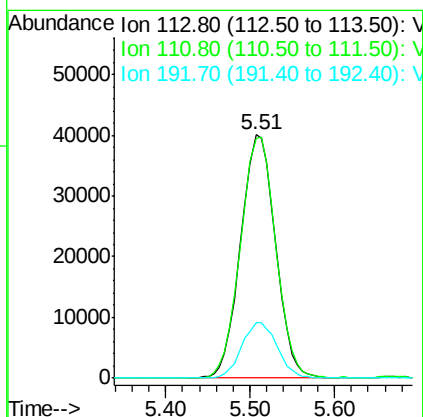
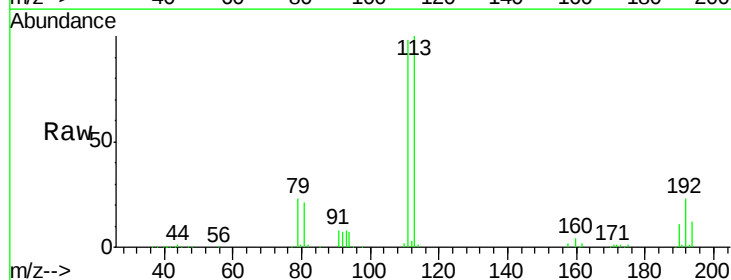
Instrument :
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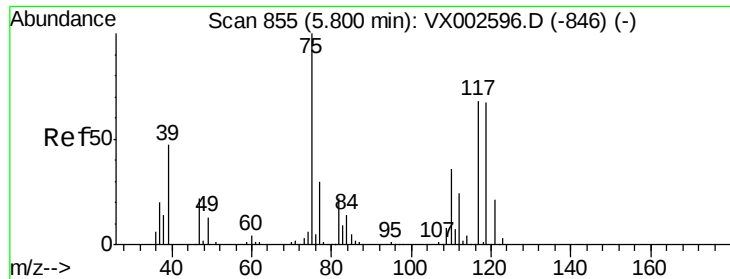
Tot Ion:114 Resp: 307758
 Ion Ratio Lower Upper
 114 100
 63 21.4 0.0 41.4
 88 14.8 0.0 30.0



#35
 Dibromofluoromethane
 Concen: 45.76 ug/l
 RT: 5.51 min Scan# 807
 Delta R.T. -0.00 min
 Lab File: VX002632.D
 Acq: 16 Jun 2018 08:05

Tgt Ion:113 Resp: 112391
 Ion Ratio Lower Upper
 113 100
 111 100.9 81.4 122.0
 192 23.2 19.1 28.7

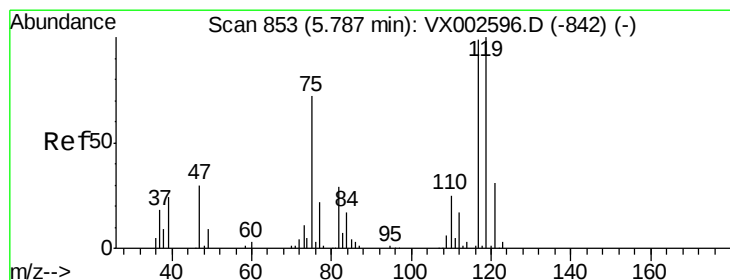
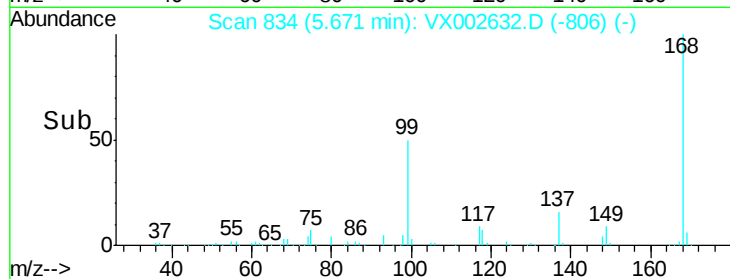
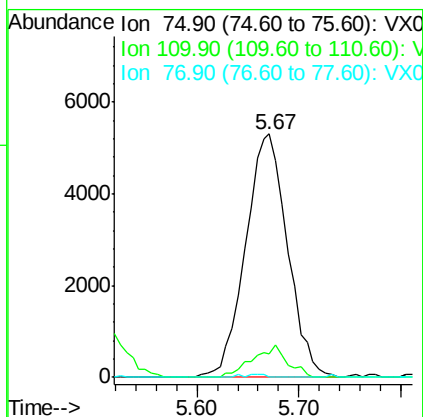
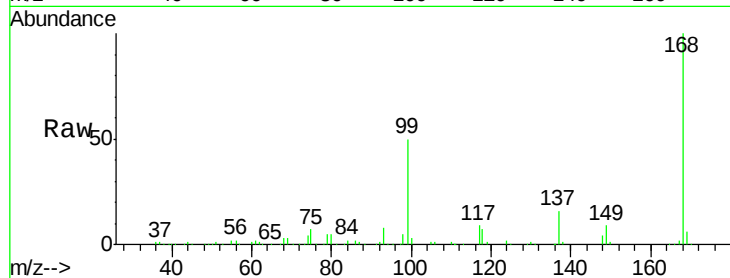




#36
 1,1-Dichloropropene
 Concen: 4.63 ug/l
 RT: 5.67 min Scan# 834
 Delta R.T. -0.13 min
 Lab File: VX002632.D
 Acq: 16 Jun 2018 08:05

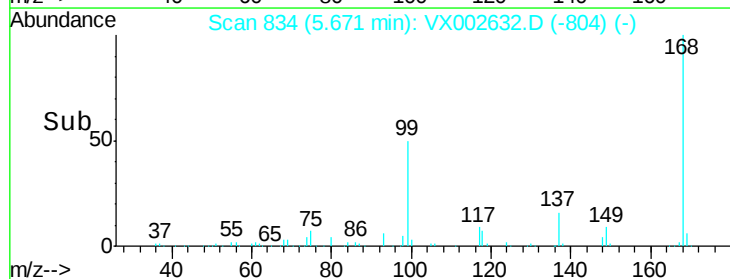
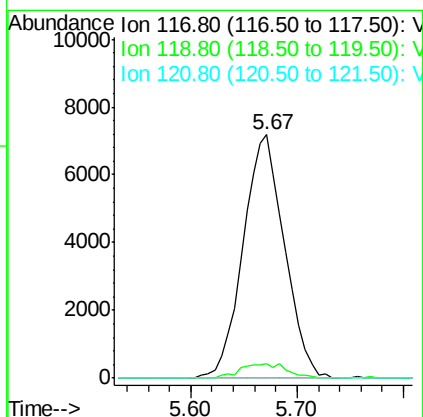
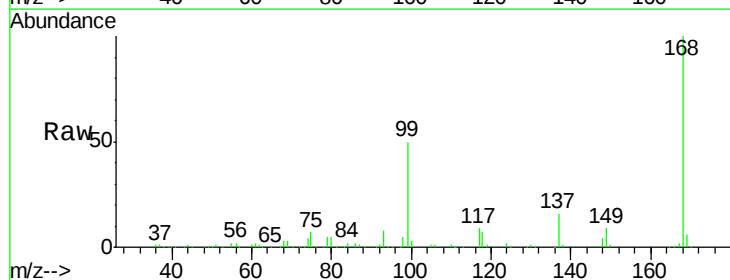
Instrument :
 MSVOA_X
 ClientSampleId :

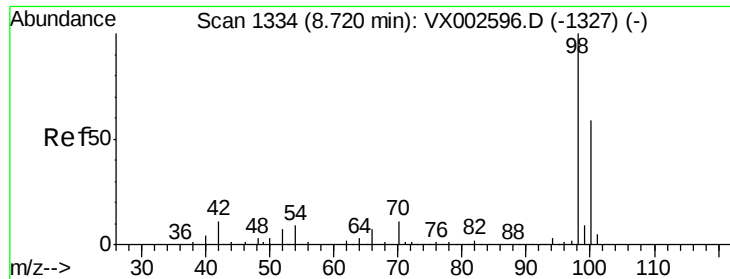
Tot Ion: 75 Resp: 15149
 Ion Ratio Lower Upper
 75 100
 110 11.2 18.1 54.4#
 77 0.0 24.3 36.5#



#38
 Carbon Tetrachloride
 Concen: 6.00 ug/l
 RT: 5.67 min Scan# 834
 Delta R.T. -0.12 min
 Lab File: VX002632.D
 Acq: 16 Jun 2018 08:05

Tgt Ion: 117 Resp: 19514
 Ion Ratio Lower Upper
 117 100
 119 6.2 77.4 116.0#
 121 0.0 24.4 36.6#





#50

Toluene-d8

Concen: 46.73 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. 0.00 min

Lab File: VX002632.D

Acq: 16 Jun 2018 08:05

Instrument :

MSVOA_X

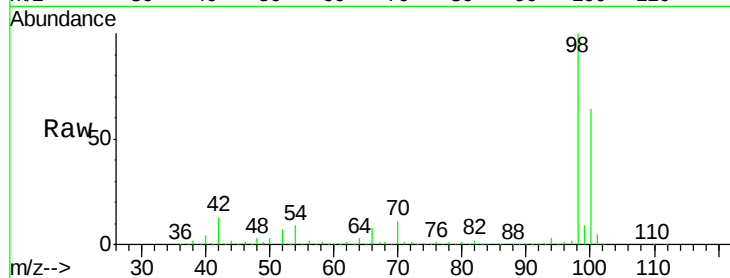
ClientSampleId :

Tot Ion: 98 Resp: 435820

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): VX0

300000

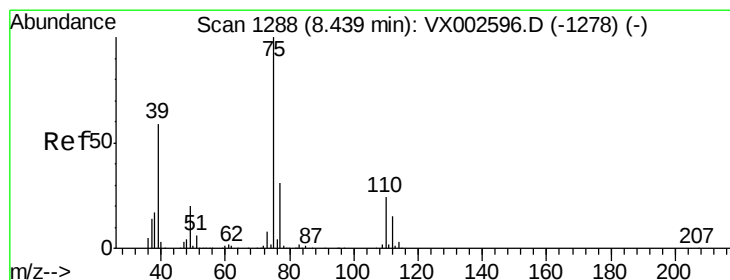
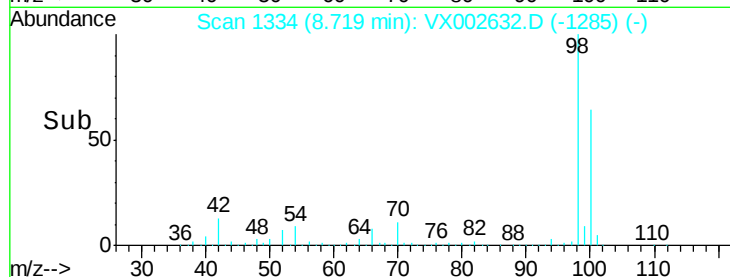
200000

100000

0

8.60 8.70 8.80

Time-->



#53

t-1,3-Dichloropropene

Concen: 2.41 ug/l

RT: 8.44 min Scan# 1288

Delta R.T. 0.00 min

Lab File: VX002632.D

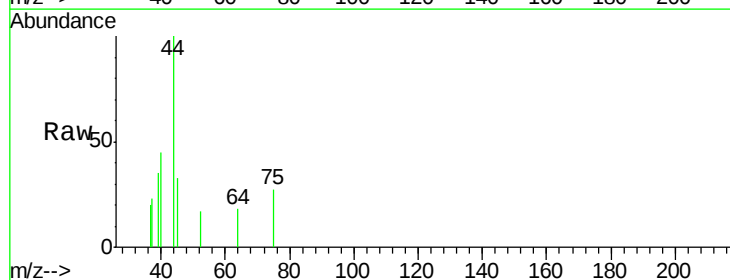
Acq: 16 Jun 2018 08:05

Tgt Ion: 75 Resp: 74

Ion Ratio Lower Upper

75 100

77 0.0 25.4 38.2#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 76.90 (76.60 to 77.60): VX0

80

60

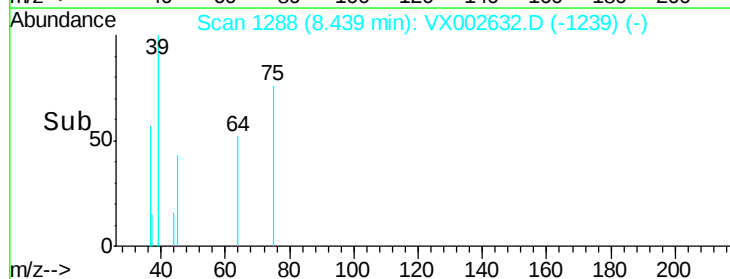
40

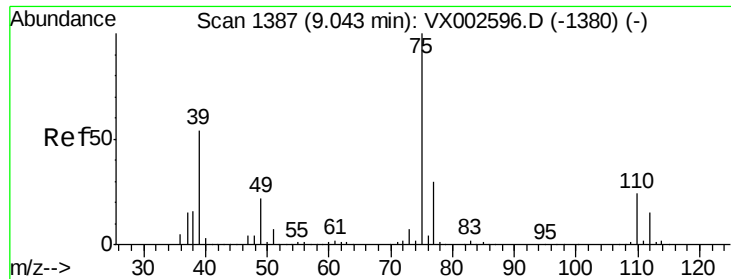
20

0

8.42 8.44 8.46

Time-->



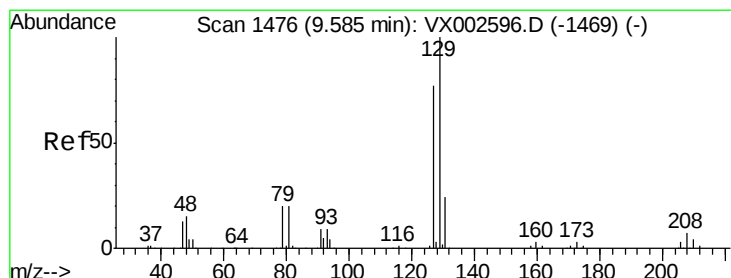
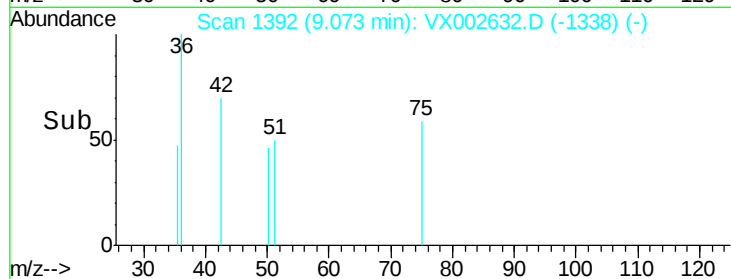
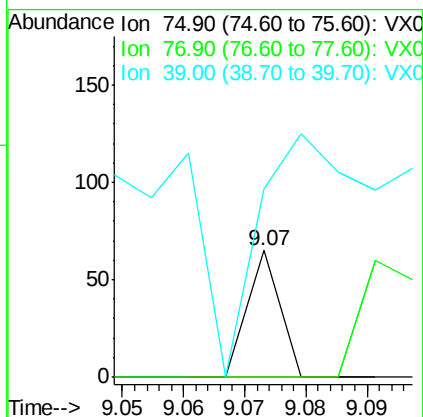
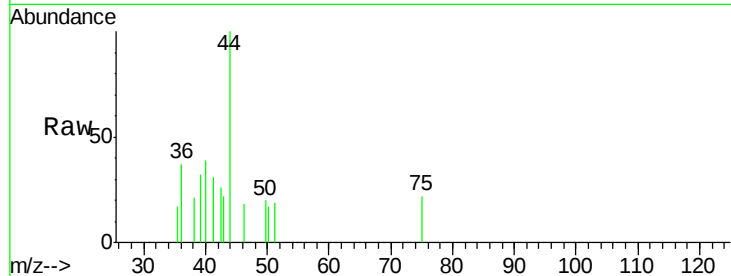


#54

cis-1,3-Dichloropropene
Concen: 3.22 ug/l
RT: 9.07 min Scan# 1392
Delta R.T. 0.03 min
Lab File: VX002632.D
Acq: 16 Jun 2018 08:05

Instrument :
MSVOA_X
ClientSampled :

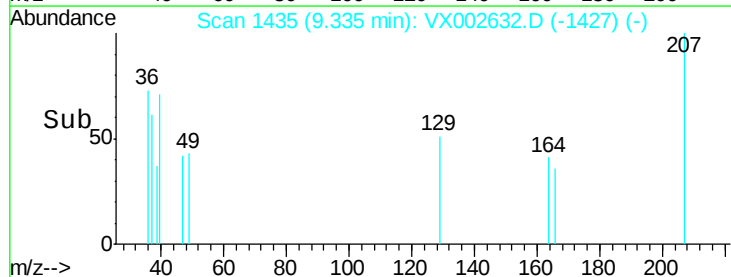
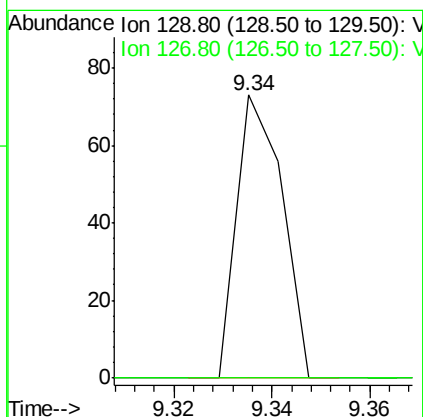
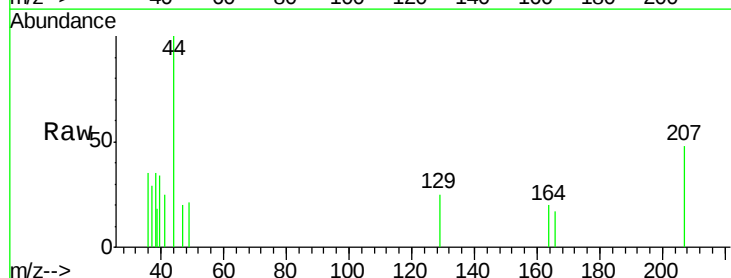
Tot Ion	Ratio	Lower	Upper
75	100		
77	0.0	24.8	37.2#
39	0.0	42.4	63.6#

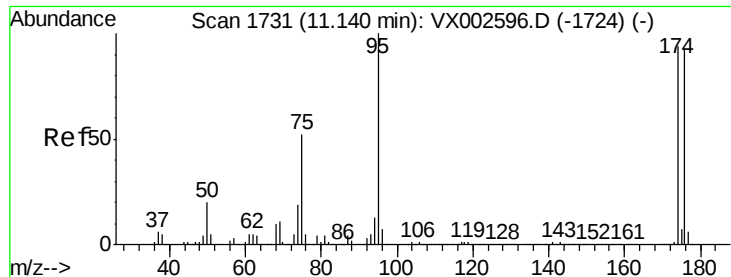


#60

Dibromochloromethane
Concen: 3.78 ug/l
RT: 9.34 min Scan# 1435
Delta R.T. -0.25 min
Lab File: VX002632.D
Acq: 16 Jun 2018 08:05

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

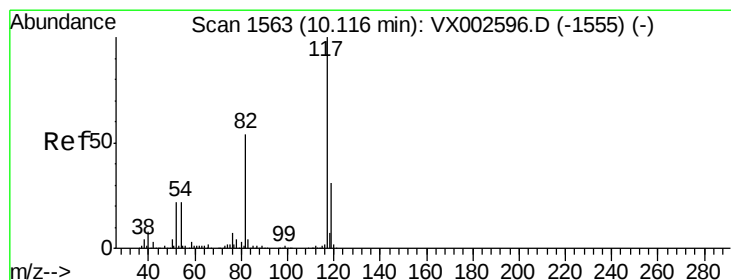
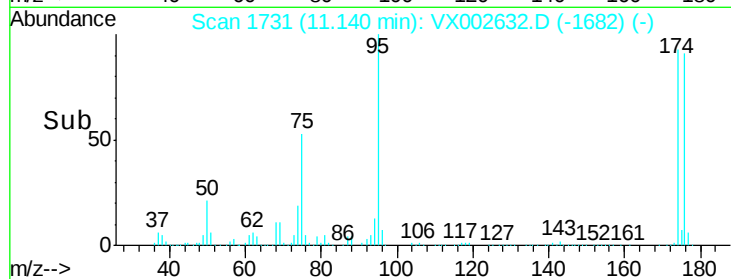
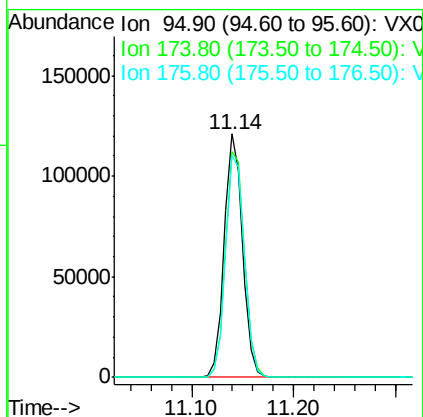
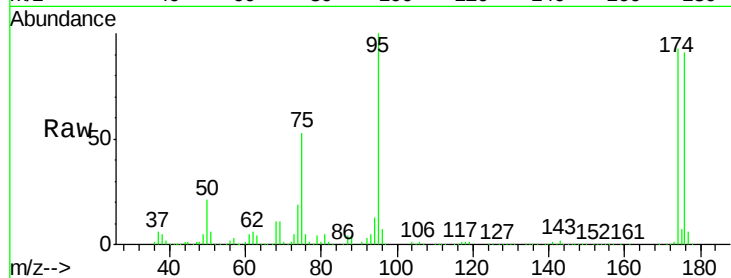




#62
4-Bromofluorobenzene
Concen: 42.60 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. -0.00 min
Lab File: VX002632.D
Acq: 16 Jun 2018 08:05

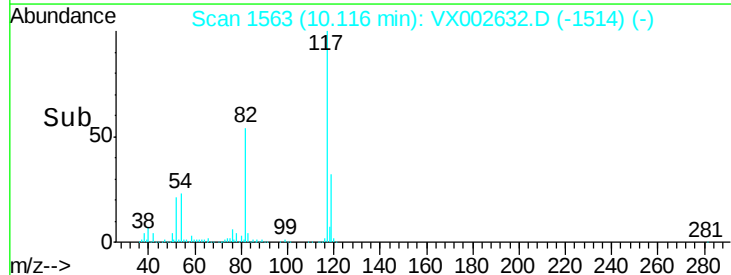
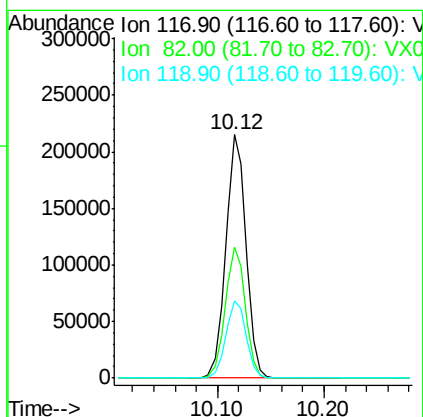
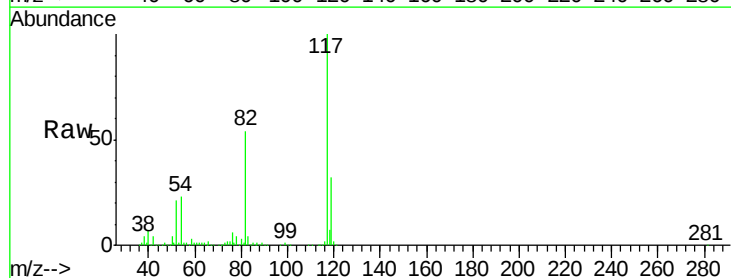
Instrument :
MSVOA_X
ClientSampleId :

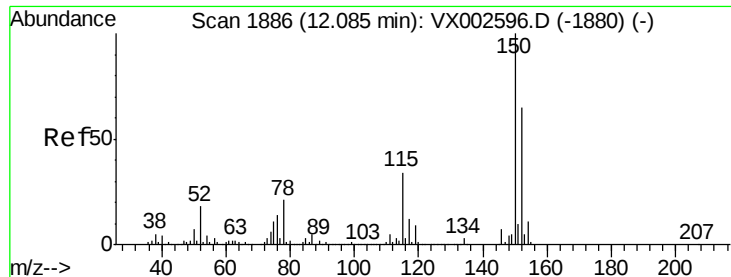
Tot Ion: 95 Resp: 150554
Ion Ratio Lower Upper
95 100
174 96.0 0.0 187.4
176 93.4 0.0 181.0



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. -0.00 min
Lab File: VX002632.D
Acq: 16 Jun 2018 08:05

Tgt Ion: 117 Resp: 285509
Ion Ratio Lower Upper
117 100
82 53.9 45.0 67.4
119 31.9 25.8 38.6





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.08 min Scan# 1886

Delta R.T. -0.00 min

Lab File: VX002632.D

Acq: 16 Jun 2018 08:05

Instrument :

MSVOA_X

ClientSampleId :

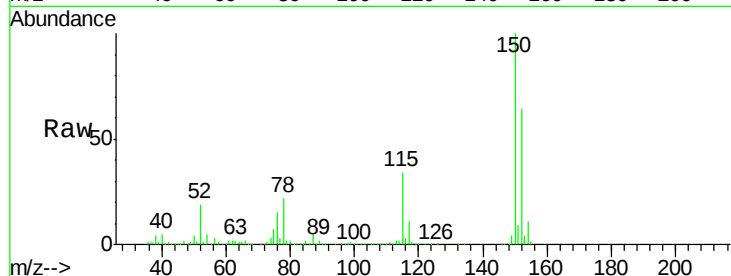
Tot Ion:152 Resp: 156247

Ion Ratio Lower Upper

152 100

115 55.0 40.1 120.2

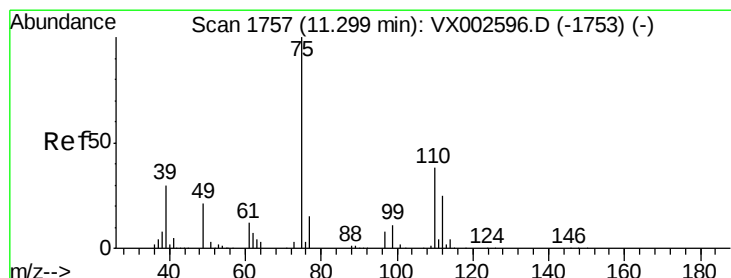
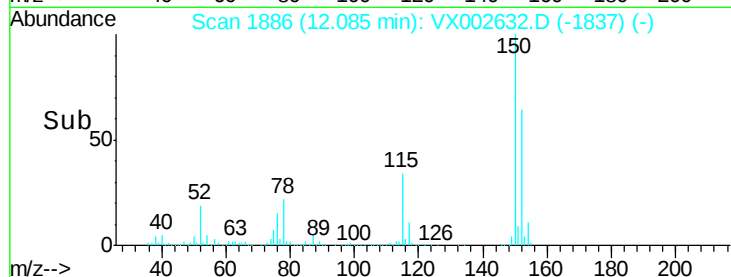
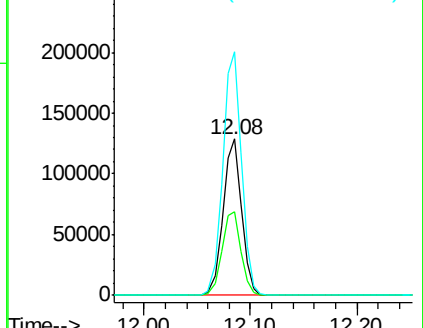
150 157.7 0.0 347.2



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: 26.94 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX002632.D

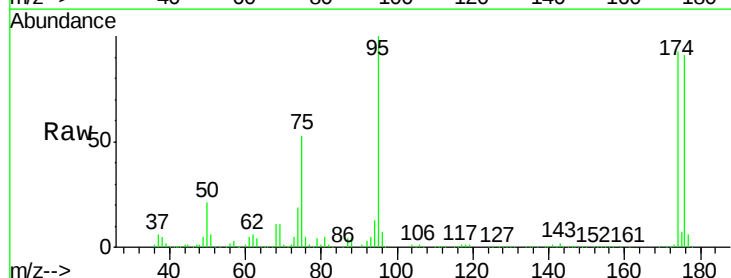
Acq: 16 Jun 2018 08:05

Tgt Ion: 75 Resp: 79437

Ion Ratio Lower Upper

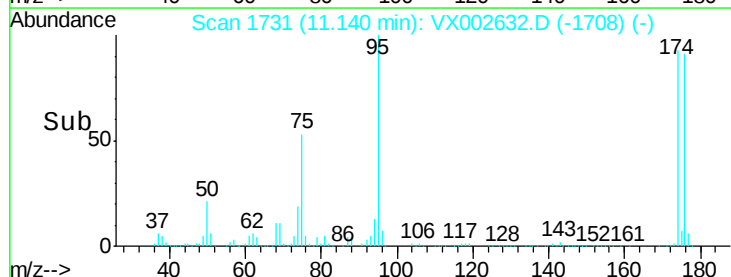
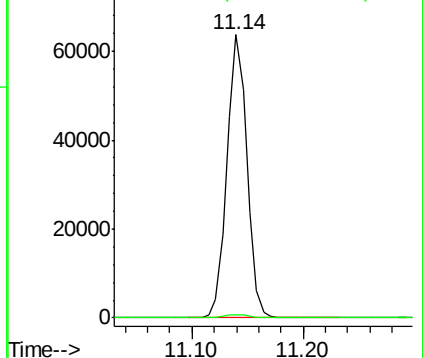
75 100

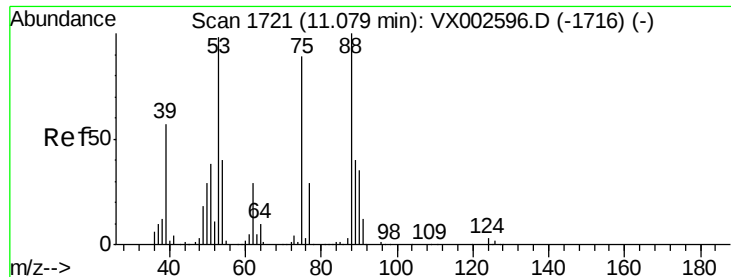
77 1.5 22.8 68.3#



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: 83.18 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX002632.D

Acq: 16 Jun 2018 08:05

Instrument :

MSVOA_X

ClientSampleId :

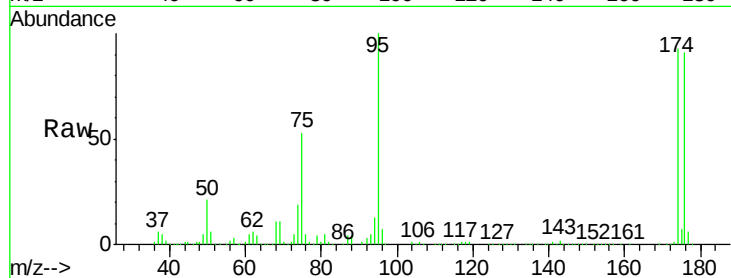
Tot Ion: 75 Resp: 79437

Ion Ratio Lower Upper

75 100

53 0.1 86.8 130.2#

89 0.0 38.2 57.2#



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

