

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX062018\
 Data File : VX002764.D
 Acq On : 21 Jun 2018 02:05
 Operator : JC/MD
 Sample : PB110408ZHE#03
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 35 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jun 21 05:57:29 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	223761	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	318216	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	298854	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	169618	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	154029	45.30	ug/l	0.00
Spiked Amount			Recovery	=	90.60%	
35) Dibromofluoromethane	5.51	113	123324	48.56	ug/l	0.00
Spiked Amount			Recovery	=	97.12%	
50) Toluene-d8	8.72	98	456402	47.33	ug/l	0.00
Spiked Amount			Recovery	=	94.66%	
62) 4-Bromofluorobenzene	11.14	95	160582	43.95	ug/l	0.00
Spiked Amount			Recovery	=	87.90%	

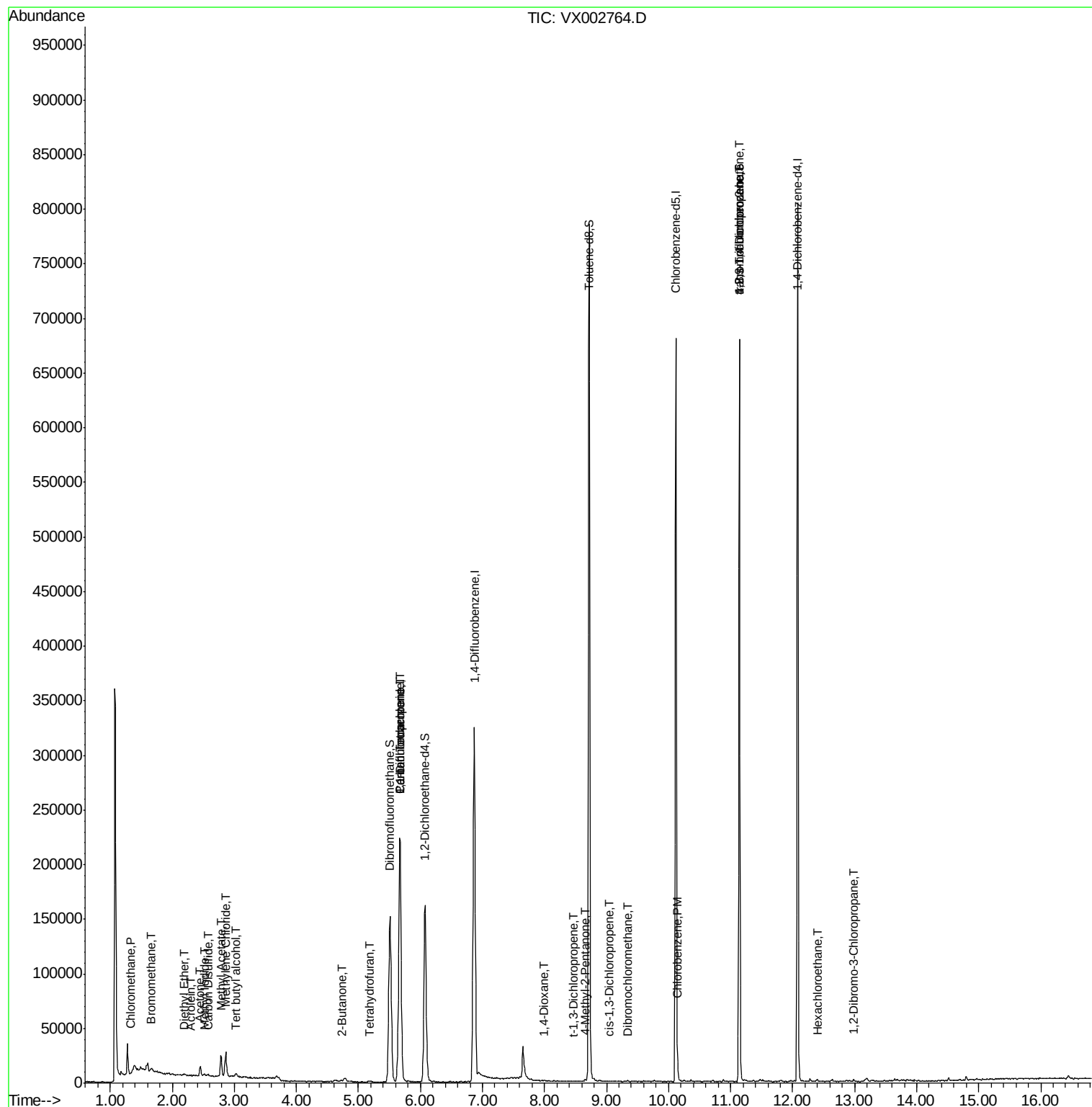
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	592	0.21	ug/l	98
5) Bromomethane	1.66	94	1578	0.89	ug/l	99
8) Diethyl Ether	2.19	74	388	0.21	ug/l	95
10) Methyl Iodide	2.52	142	2073	5.70	ug/l	95
11) Tert butyl alcohol	3.02	59	2154	3.06	ug/l #	90
13) Acrolein	2.29	56	319	7.80	ug/l #	61
16) Acetone	2.45	43	9445	6.30	ug/l	99
17) Carbon Disulfide	2.57	76	1828	0.31	ug/l #	91
18) Methyl Acetate	2.78	43	22241	5.56	ug/l	94
20) Methylene Chloride	2.86	84	10540	3.43	ug/l	95
25) 2-Butanone	4.73	43	1753	0.89	ug/l #	85
29) Tetrahydrofuran	5.18	42	1043	0.81	ug/l #	78
36) 1,1-Dichloropropene	5.66	75	15451	4.57	ug/l #	50
38) Carbon Tetrachloride	5.67	117	20367	6.05	ug/l #	16
49) 1,4-Dioxane	7.98	88	19	0.31	ug/l #	22
51) 4-Methyl-2-Pentanone	8.66	43	1152	0.28	ug/l	96
53) t-1,3-Dichloropropene	8.46	75	78	2.41	ug/l #	43
54) cis-1,3-Dichloropropene	9.05	75	136	3.24	ug/l #	76
60) Dibromochloromethane	9.35	129	123	3.80	ug/l #	11
65) Chlorobenzene	10.15	112	3670	0.50	ug/l	97
76) 1,2,3-Trichloropropane	11.14	75	84363	26.36	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.14	75	84363	81.47	ug/l #	7
90) Hexachloroethane	12.39	117	26	2.64	ug/l #	1
92) 1,2-Dibromo-3-Chloropropan	12.98	75	268	0.38	ug/l #	1

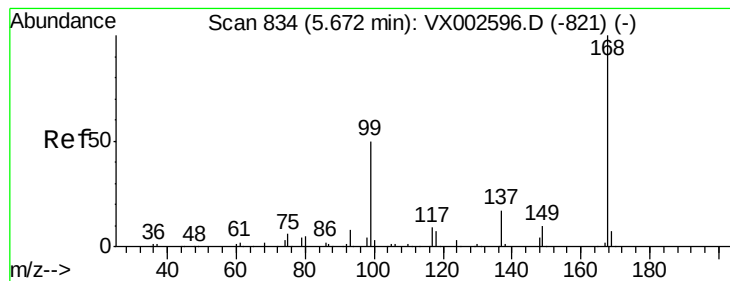
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Jun 21 05:57:29 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X061518W.M
Quant Title : SW846 8260
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# 834

Delta R.T. 0.00 min

Lab File: VX002764.D

Acq: 21 Jun 2018 02:05

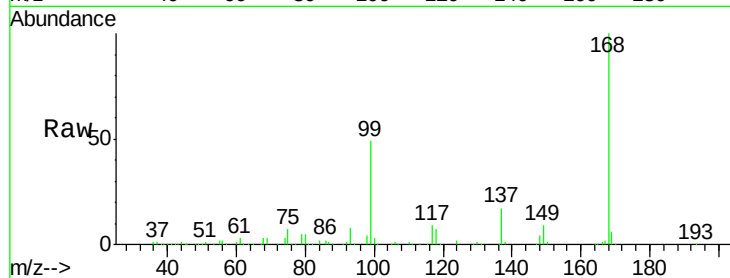
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:168 Resp: 223761

Ion Ratio Lower Upper

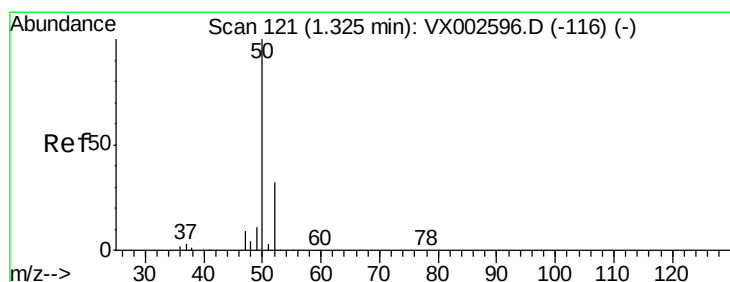
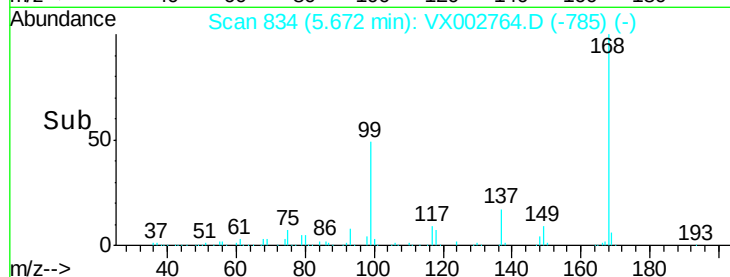
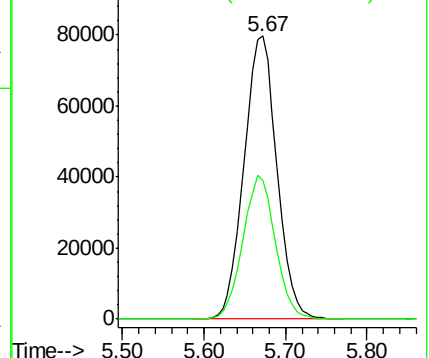
168 100

99 49.2 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: 0.21 ug/l

RT: 1.33 min Scan# 122

Delta R.T. 0.01 min

Lab File: VX002764.D

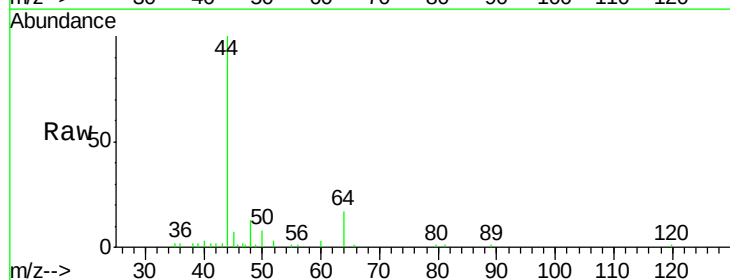
Acq: 21 Jun 2018 02:05

Tgt Ion: 50 Resp: 592

Ion Ratio Lower Upper

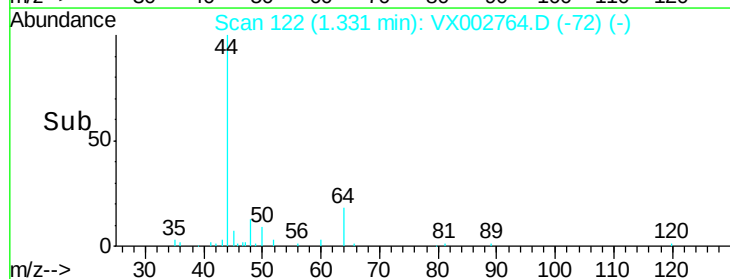
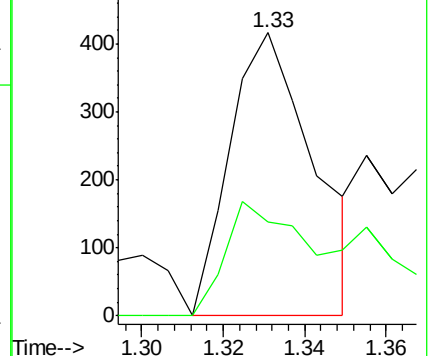
50 100

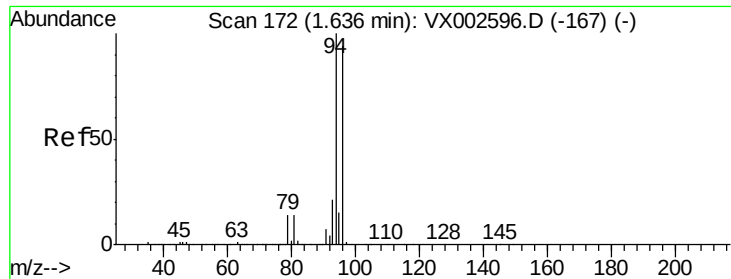
52 33.1 25.7 38.5



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#5

Bromomethane

Concen: 0.89 ug/l

RT: 1.66 min Scan# 176

Delta R.T. 0.02 min

Lab File: VX002764.D

Acq: 21 Jun 2018 02:05

Instrument :

MSVOA_X

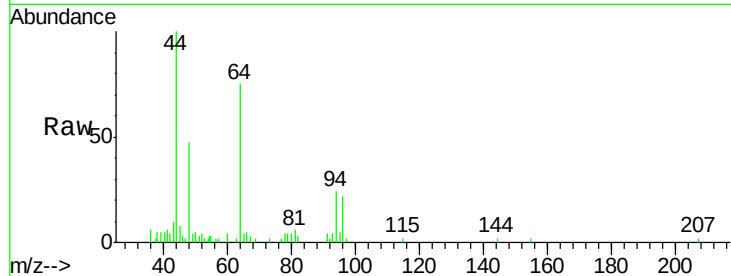
ClientSampled :

Tot Ion: 94 Resp: 1578

Ion Ratio Lower Upper

94 100

96 94.3 74.9 112.3



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.66

800

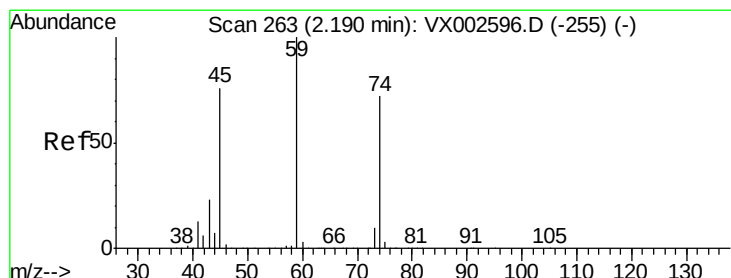
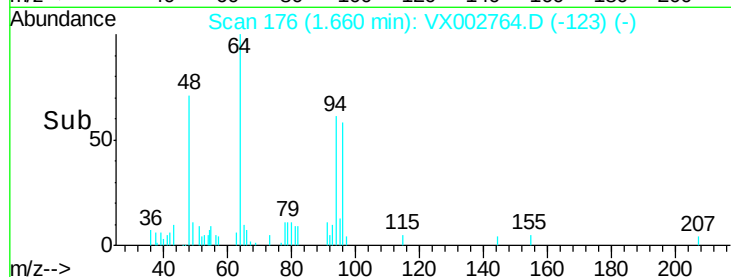
600

400

200

0

Time-->



#8

Diethyl Ether

Concen: 0.21 ug/l

RT: 2.19 min Scan# 263

Delta R.T. 0.00 min

Lab File: VX002764.D

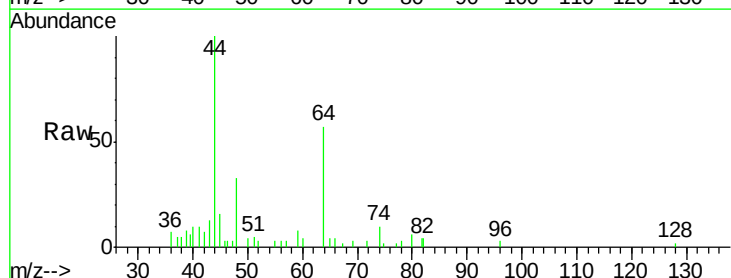
Acq: 21 Jun 2018 02:05

Tgt Ion: 74 Resp: 388

Ion Ratio Lower Upper

74 100

45 100.8 53.1 159.4



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0

2.19

400

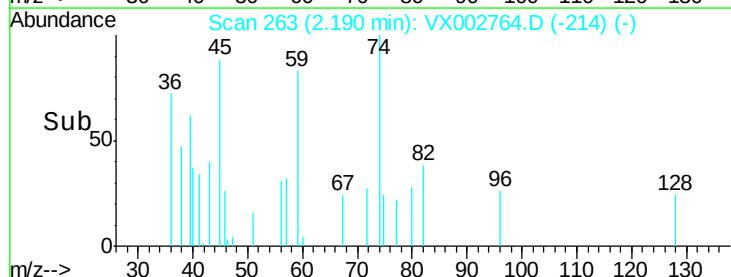
300

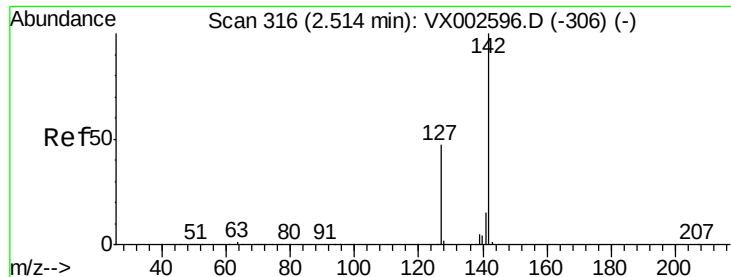
200

100

0

Time-->

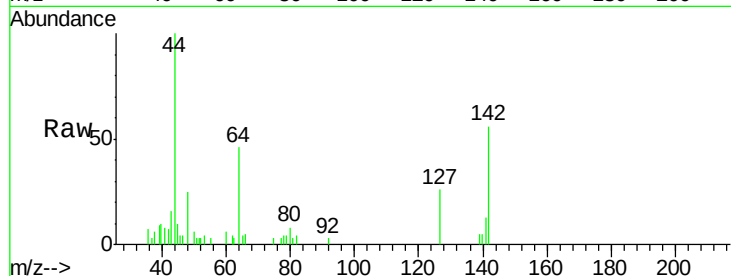




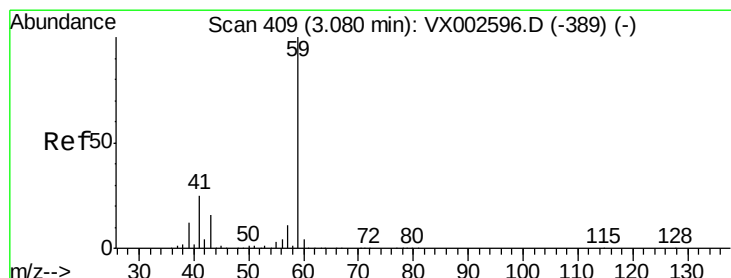
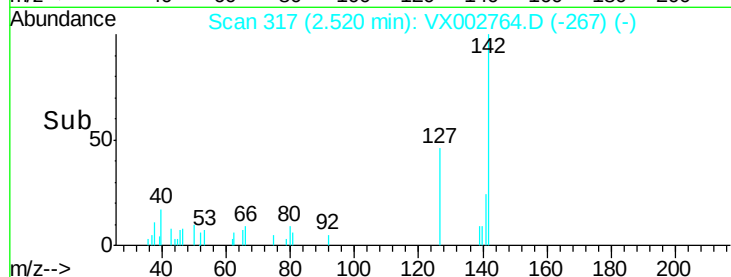
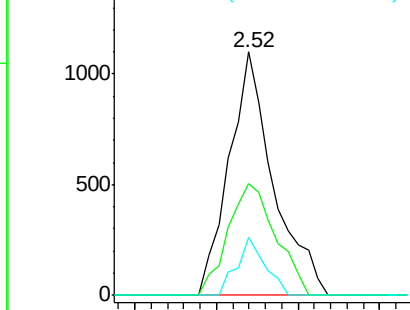
#10
Methyl Iodide
Concen: 5.70 ug/l
RT: 2.52 min Scan# 317
Delta R.T. 0.01 min
Lab File: VX002764.D
Acq: 21 Jun 2018 02:05

Instrument :
MSVOA_X
ClientSampled :

Tot Ion:142 Resp: 2073
Ion Ratio Lower Upper
142 100
127 49.3 36.6 55.0
141 15.1 11.3 16.9

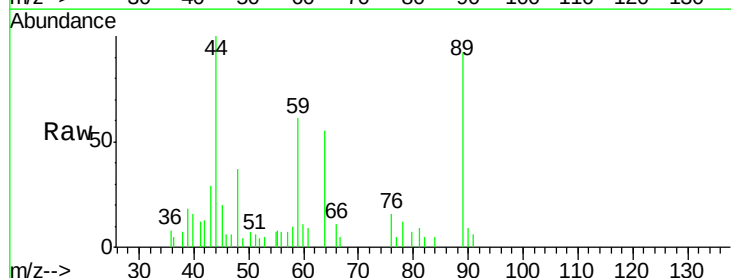


Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V

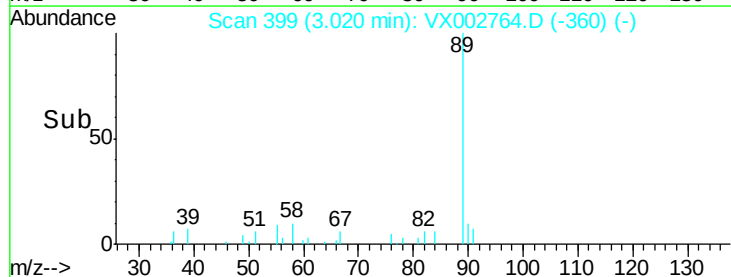
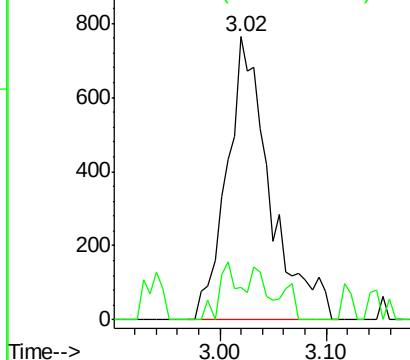


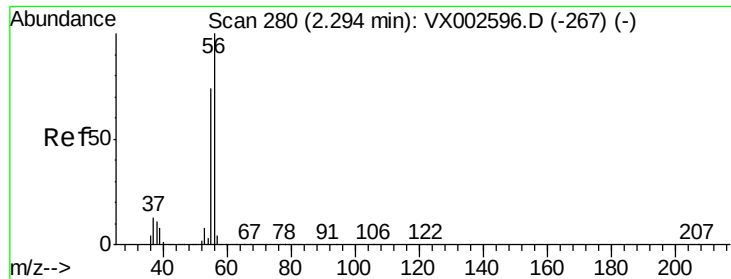
#11
Tert butyl alcohol
Concen: 3.06 ug/l
RT: 3.02 min Scan# 399
Delta R.T. -0.06 min
Lab File: VX002764.D
Acq: 21 Jun 2018 02:05

Tgt Ion: 59 Resp: 2154
Ion Ratio Lower Upper
59 100
57 6.6 8.2 12.2#



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





#13

Acrolein

Concen: 7.80 ug/l

RT: 2.29 min Scan# 280

Delta R.T. 0.00 min

Lab File: VX002764.D

Acq: 21 Jun 2018 02:05

Instrument :

MSVOA_X

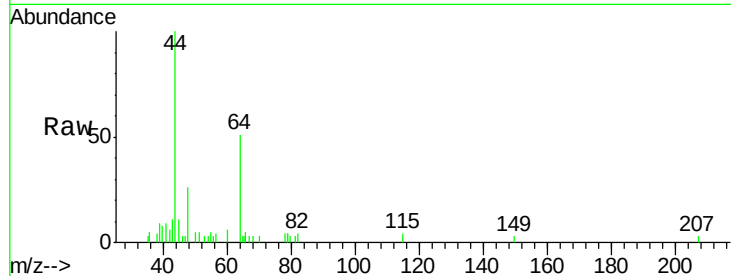
ClientSampleId :

Tot Ion: 56 Resp: 319

Ion Ratio Lower Upper

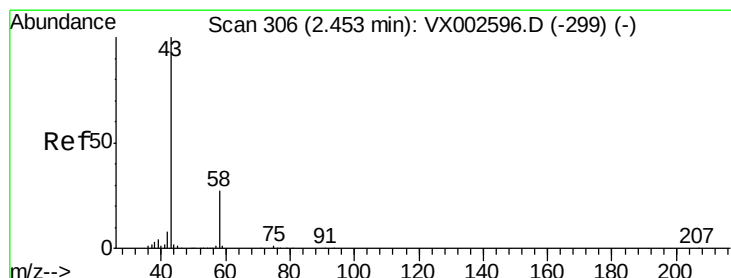
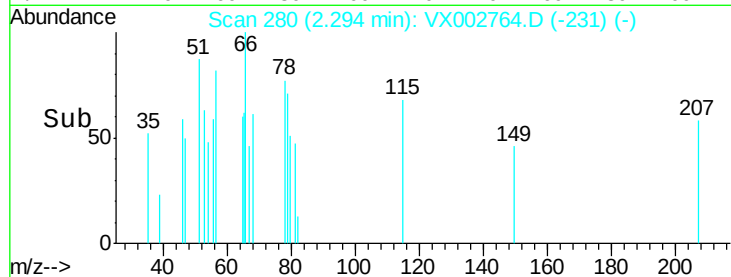
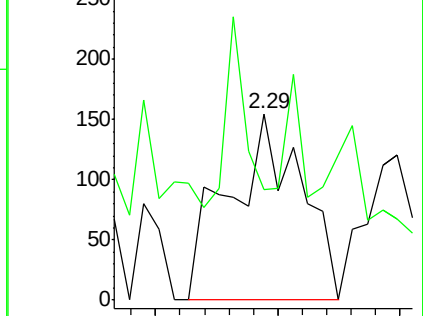
56 100

55 38.6 57.0 85.4#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#16

Acetone

Concen: 6.30 ug/l

RT: 2.45 min Scan# 305

Delta R.T. -0.01 min

Lab File: VX002764.D

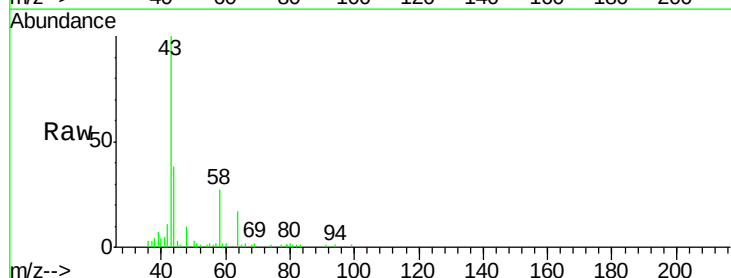
Acq: 21 Jun 2018 02:05

Tgt Ion: 43 Resp: 9445

Ion Ratio Lower Upper

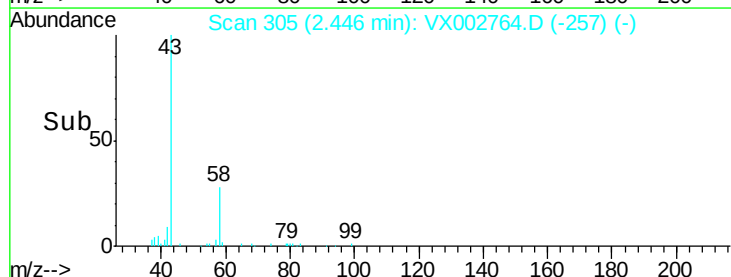
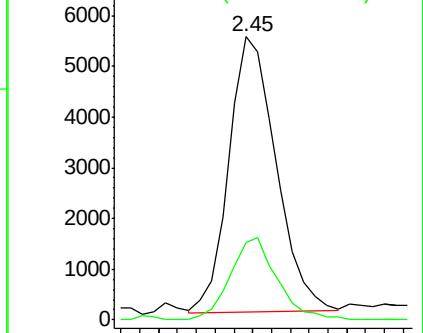
43 100

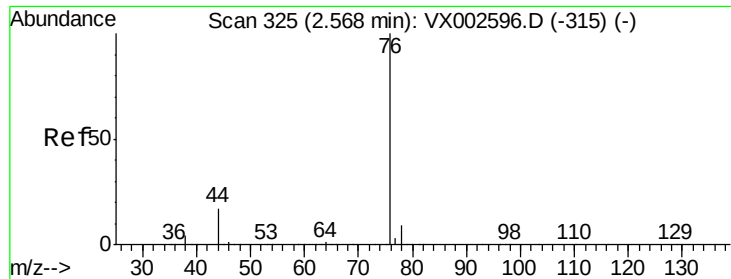
58 28.3 22.1 33.1



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#17

Carbon Disulfide

Concen: 0.31 ug/l

RT: 2.57 min Scan# 326

Delta R.T. 0.01 min

Lab File: VX002764.D

Acq: 21 Jun 2018 02:05

Instrument :

MSVOA_X

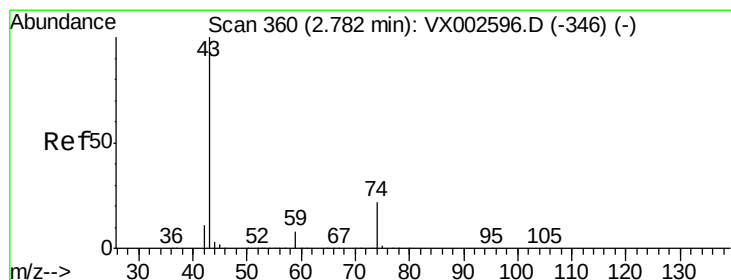
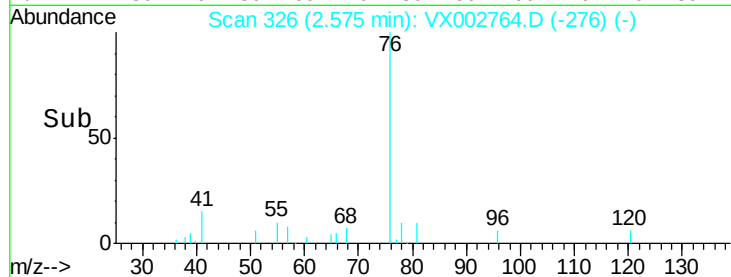
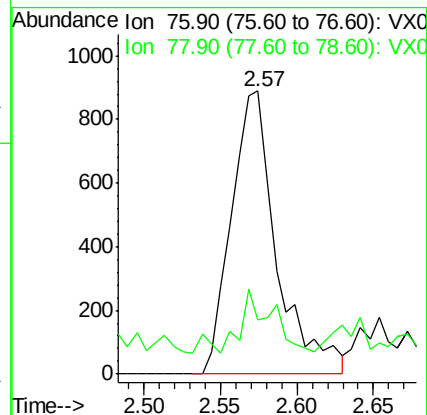
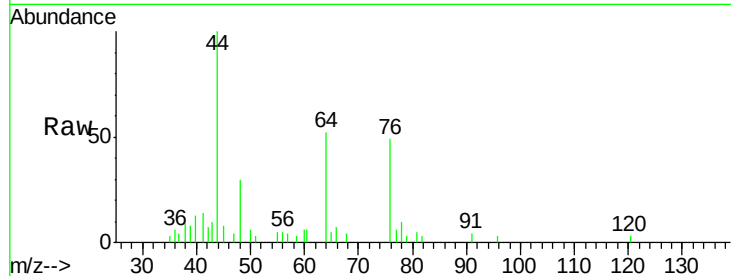
ClientSampleId :

Tot Ion: 76 Resp: 1828

Ion Ratio Lower Upper

76 100

78 11.9 6.9 10.3#



#18

Methyl Acetate

Concen: 5.56 ug/l

RT: 2.78 min Scan# 360

Delta R.T. 0.00 min

Lab File: VX002764.D

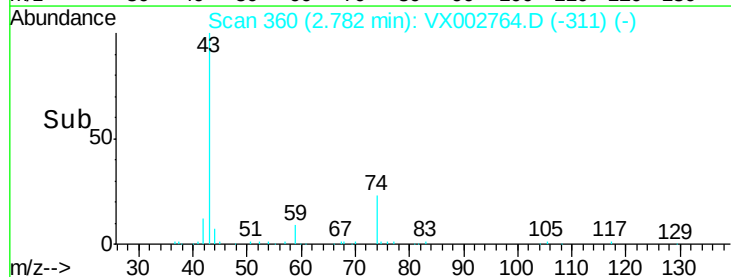
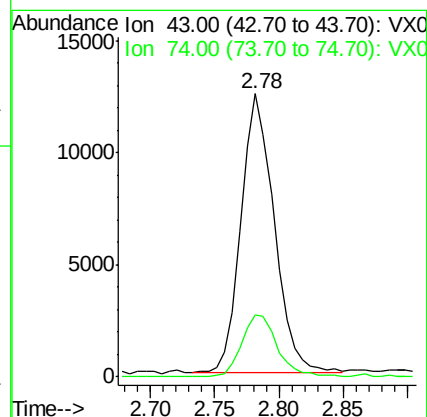
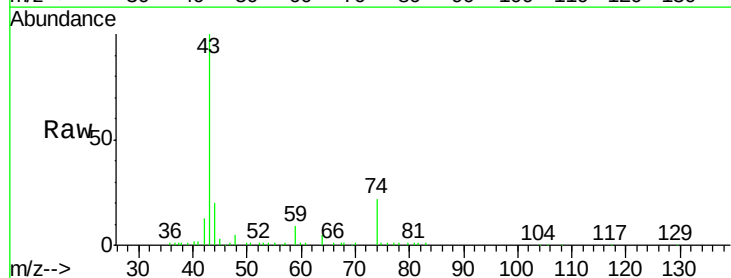
Acq: 21 Jun 2018 02:05

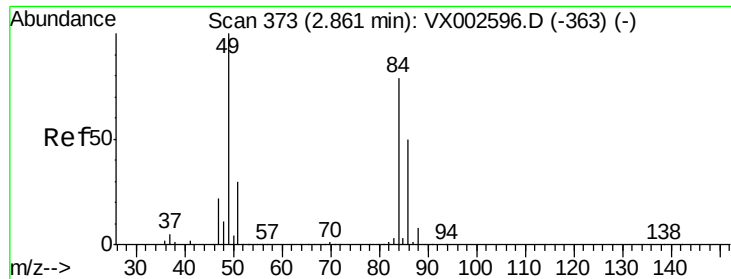
Tgt Ion: 43 Resp: 22241

Ion Ratio Lower Upper

43 100

74 23.7 16.7 25.1

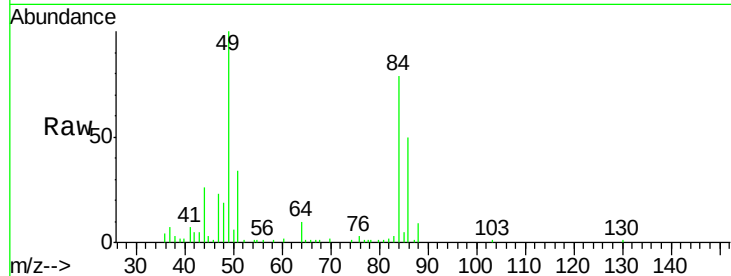




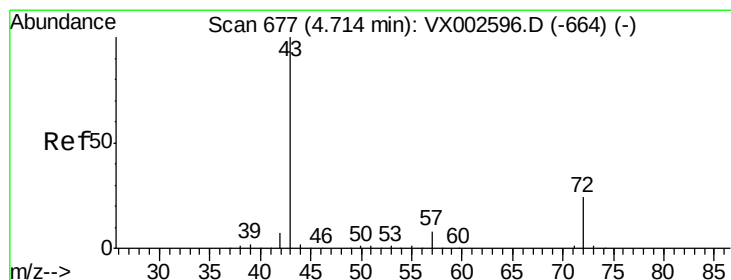
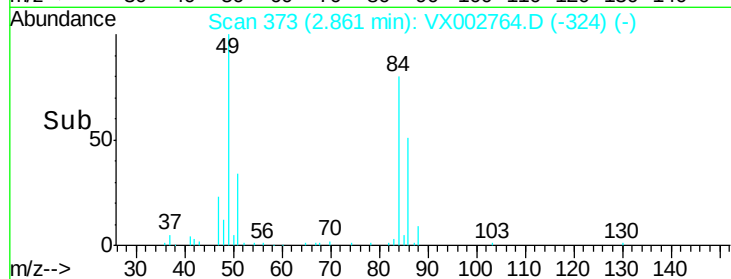
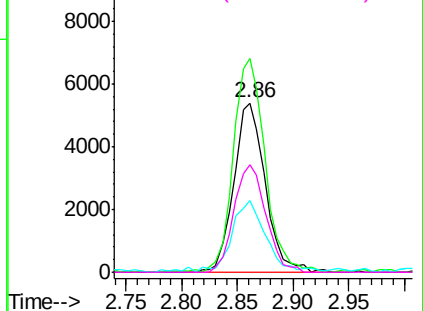
#20
Methylene Chloride
Concen: 3.43 ug/l
RT: 2.86 min Scan# 373
Delta R.T. 0.00 min
Lab File: VX002764.D
Acq: 21 Jun 2018 02:05

Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 84 Resp: 10540
Ion Ratio Lower Upper
84 100
49 125.1 107.8 161.6
51 40.2 32.8 49.2
86 63.5 52.5 78.7

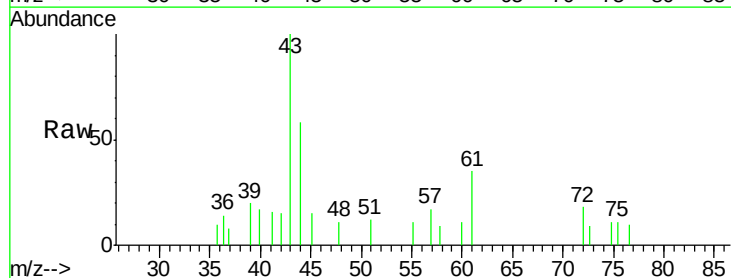


Abundance Ion 83.90 (83.60 to 84.60): VX0
Ion 48.90 (48.60 to 49.60): VX0
Ion 50.90 (50.60 to 51.60): VX0
Ion 85.90 (85.60 to 86.60): VX0

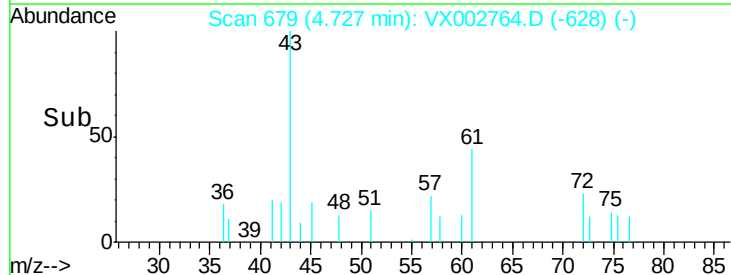
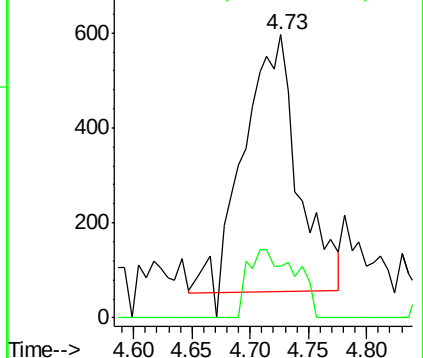


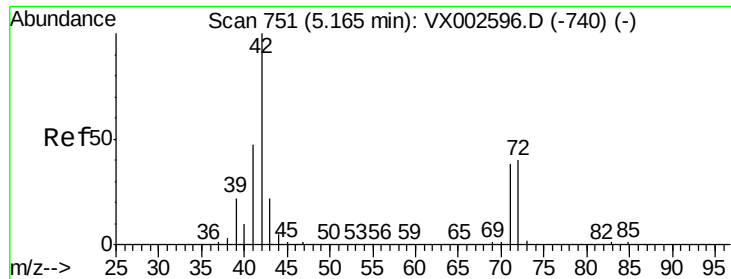
#25
2-Butanone
Concen: 0.89 ug/l
RT: 4.73 min Scan# 679
Delta R.T. 0.01 min
Lab File: VX002764.D
Acq: 21 Jun 2018 02:05

Tgt Ion: 43 Resp: 1753
Ion Ratio Lower Upper
43 100
72 30.6 18.5 27.7#



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

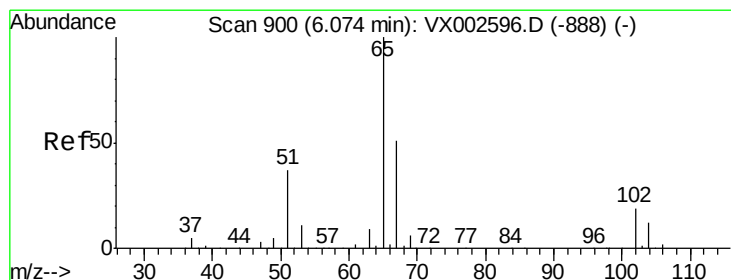
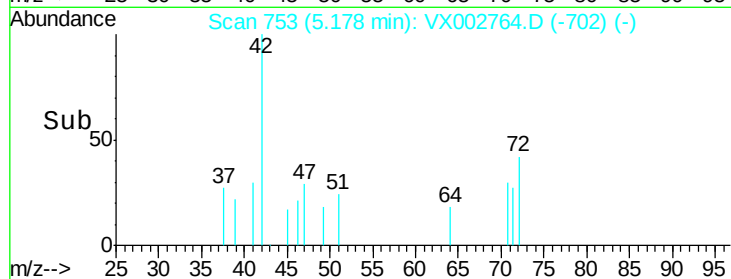
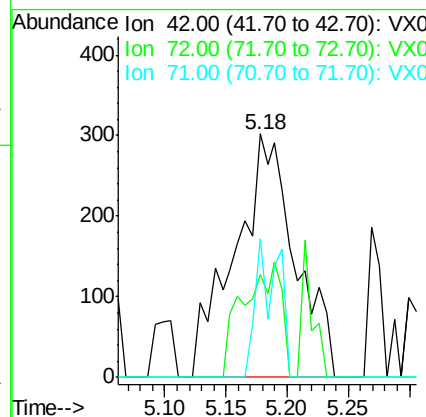
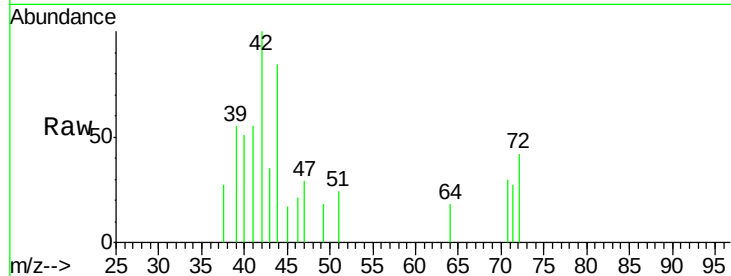




#29
Tetrahydrofuran
Concen: 0.81 ug/l
RT: 5.18 min Scan# 753
Delta R.T. 0.01 min
Lab File: VX002764.D
Acq: 21 Jun 2018 02:05

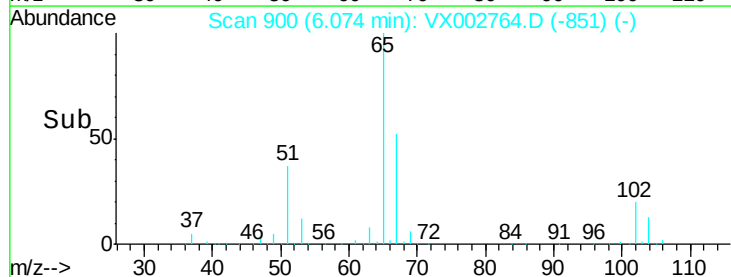
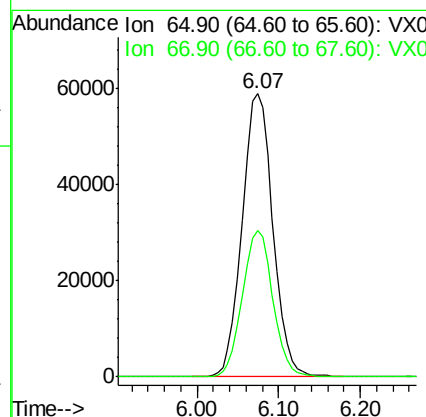
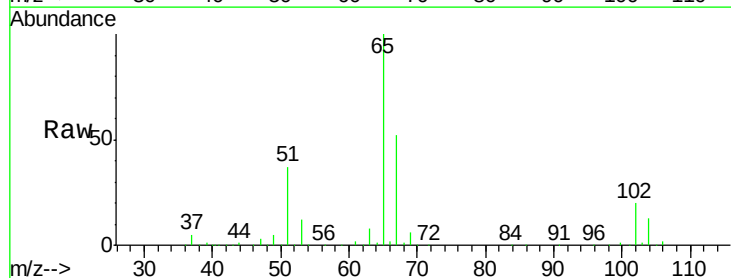
Instrument :
MSVOA_X
ClientSampleId :

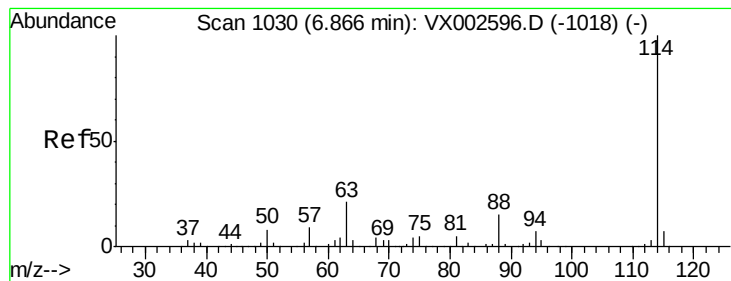
Tot Ion: 42 Resp: 1043
Ion Ratio Lower Upper
42 100
72 29.8 32.0 48.0#
71 21.3 30.1 45.1#



#33
1,2-Dichloroethane-d4
Concen: 45.30 ug/l
RT: 6.07 min Scan# 900
Delta R.T. 0.00 min
Lab File: VX002764.D
Acq: 21 Jun 2018 02:05

Tgt Ion: 65 Resp: 154029
Ion Ratio Lower Upper
65 100
67 51.3 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: VX002764.D

Acq: 21 Jun 2018 02:05

Instrument :

MSVOA_X

ClientSampleId :

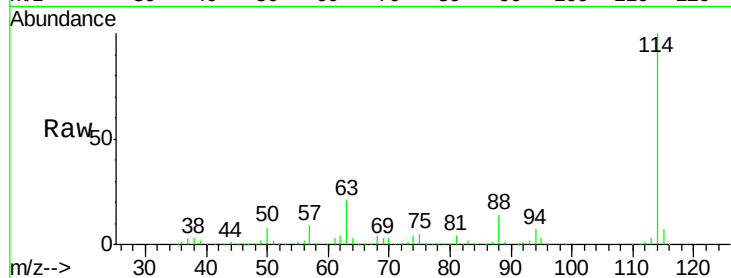
Tot Ion:114 Resp: 318216

Ion Ratio Lower Upper

114 100

63 21.0 0.0 41.4

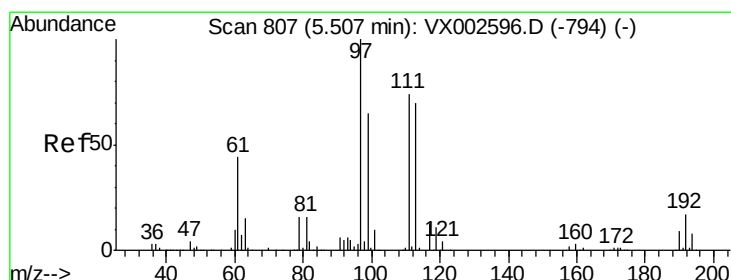
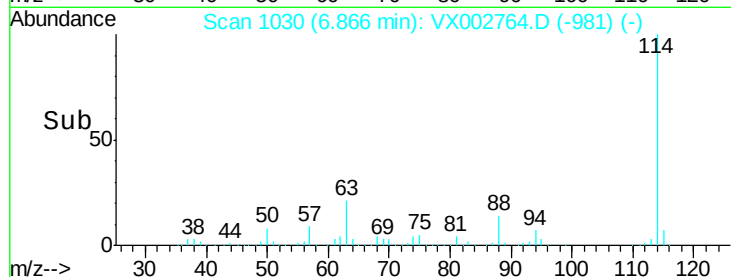
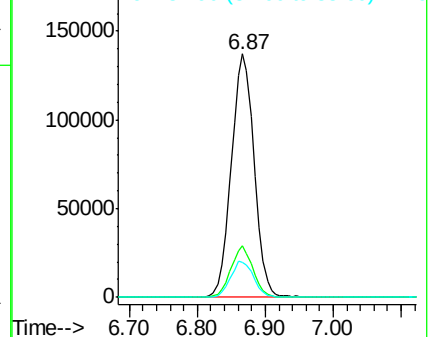
88 14.5 0.0 30.0



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



#35

Dibromofluoromethane

Concen: 48.56 ug/l

RT: 5.51 min Scan# 808

Delta R.T. 0.01 min

Lab File: VX002764.D

Acq: 21 Jun 2018 02:05

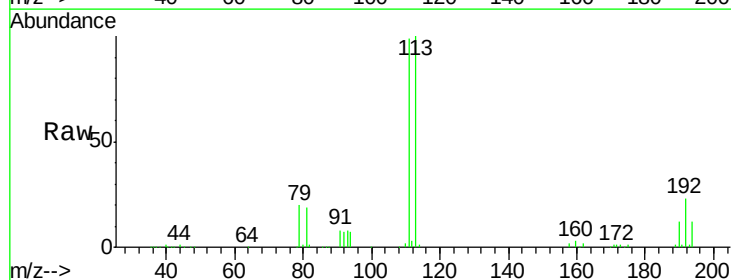
Tgt Ion:113 Resp: 123324

Ion Ratio Lower Upper

113 100

111 101.9 81.4 122.0

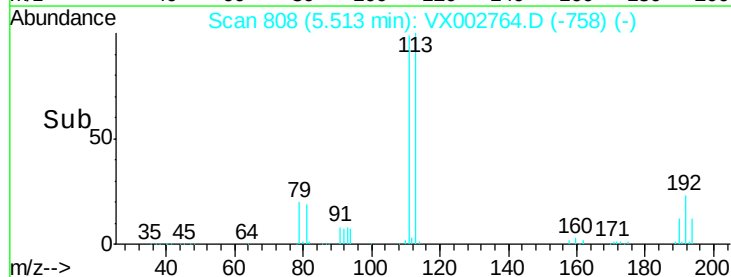
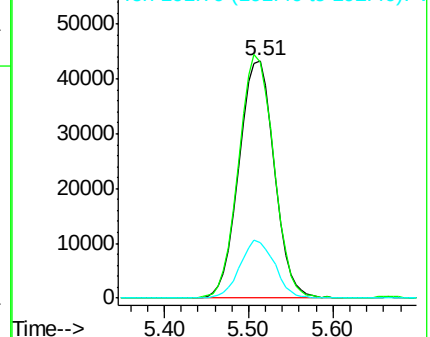
192 23.9 19.1 28.7

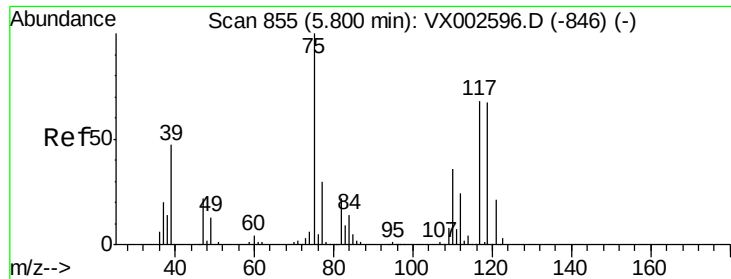


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

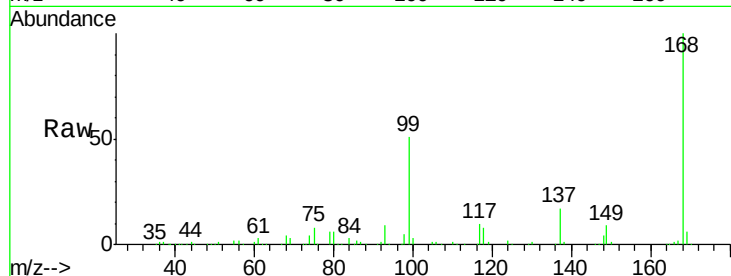




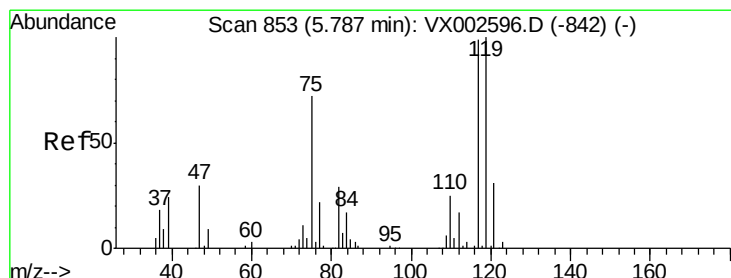
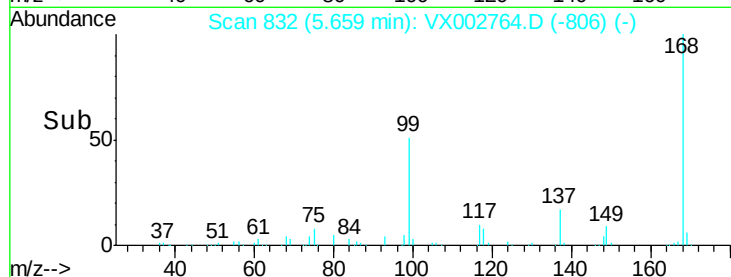
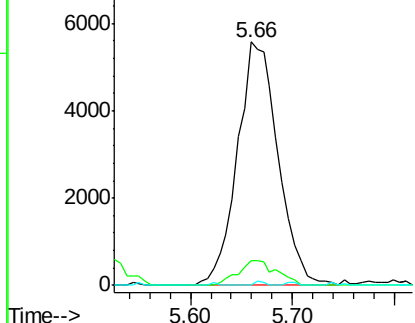
#36
 1,1-Dichloropropene
 Concen: 4.57 ug/l
 RT: 5.66 min Scan# 832
 Delta R.T. -0.14 min
 Lab File: VX002764.D
 Acq: 21 Jun 2018 02:05

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
75	100		
110	9.6	18.1	54.4#
77	0.3	24.3	36.5#

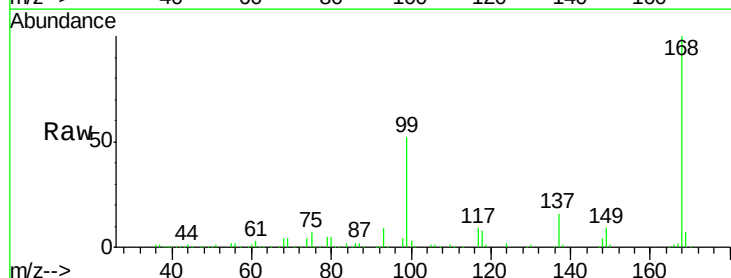


Abundance Ion 74.90 (74.60 to 75.60): VX0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VX0

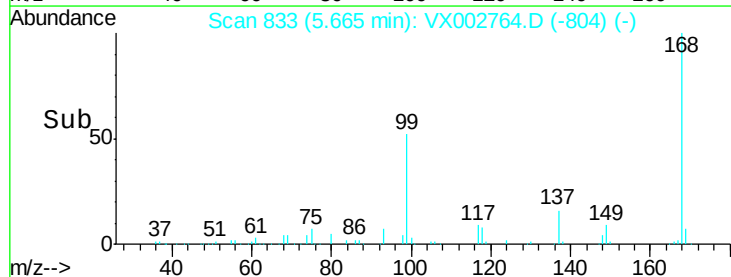
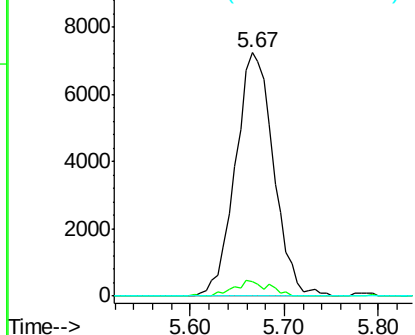


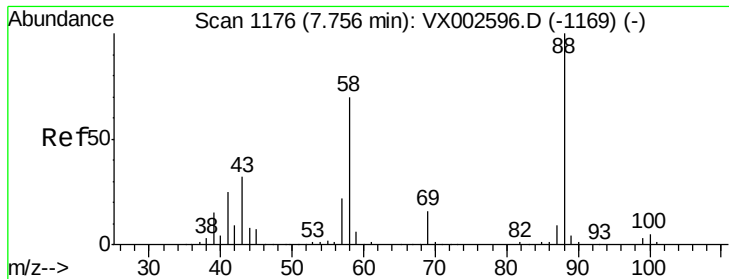
#38
 Carbon Tetrachloride
 Concen: 6.05 ug/l
 RT: 5.67 min Scan# 833
 Delta R.T. -0.12 min
 Lab File: VX002764.D
 Acq: 21 Jun 2018 02:05

Tgt Ion	Ratio	Lower	Upper
117	100		
119	6.1	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

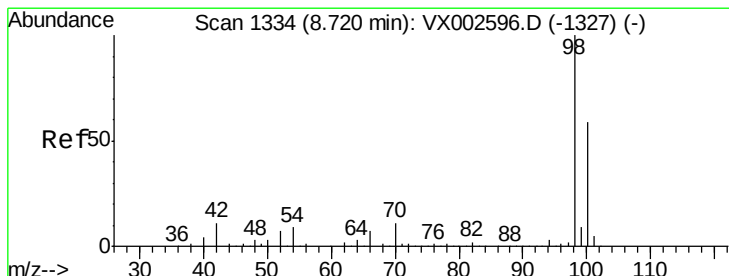
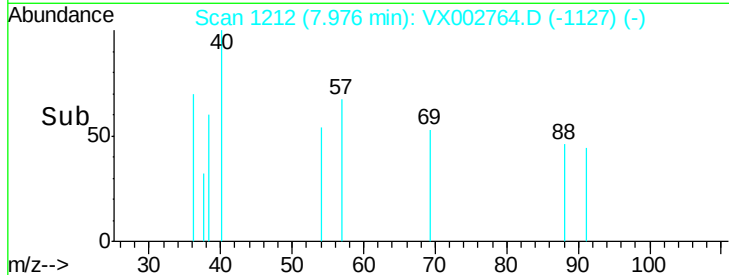
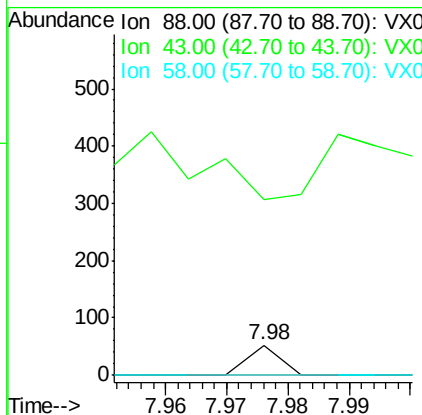
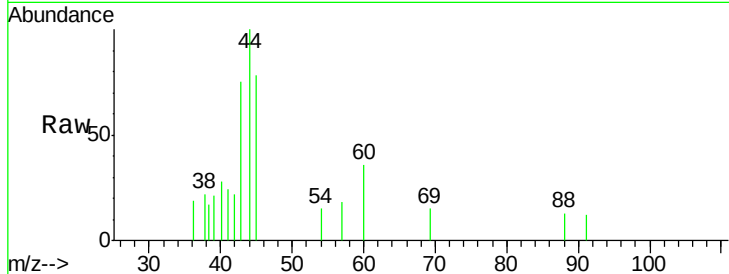




#49
 1,4-Dioxane
 Concen: 0.31 ug/l
 RT: 7.98 min Scan# 1212
 Delta R.T. 0.22 min
 Lab File: VX002764.D
 Acq: 21 Jun 2018 02:05

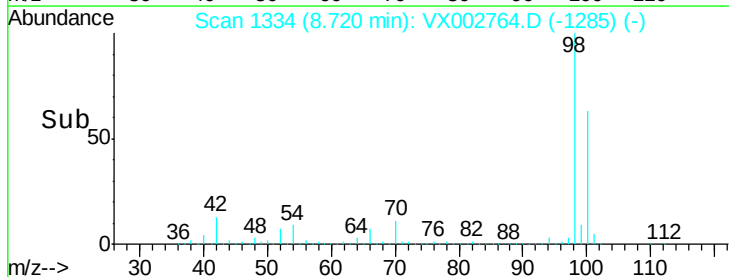
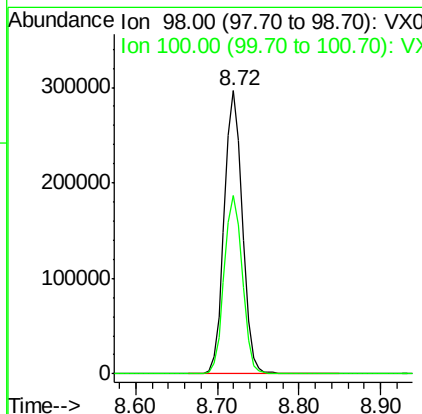
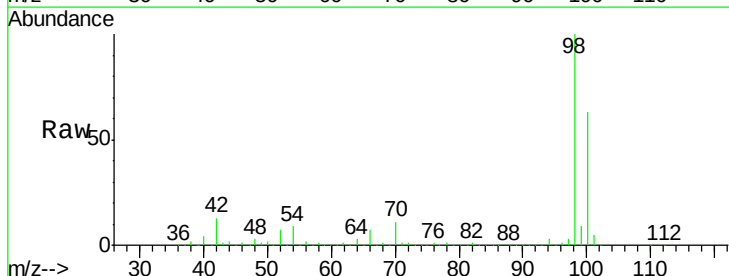
Instrument :
 MSVOA_X
 ClientSampled :

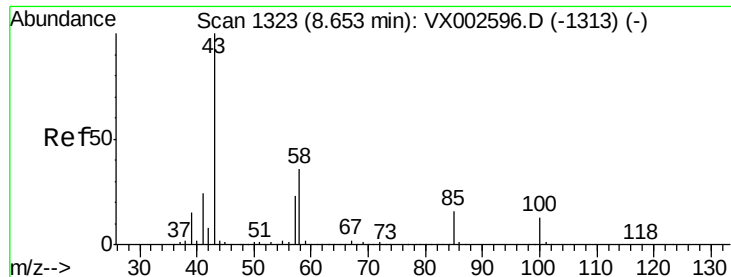
Tot Ion: 88 Resp: 19
 Ion Ratio Lower Upper
 88 100
 43 0.0 29.8 44.6#
 58 0.0 57.1 85.7#



#50
 Toluene-d8
 Concen: 47.33 ug/l
 RT: 8.72 min Scan# 1334
 Delta R.T. 0.00 min
 Lab File: VX002764.D
 Acq: 21 Jun 2018 02:05

Tgt Ion: 98 Resp: 456402
 Ion Ratio Lower Upper
 98 100
 100 63.2 50.9 76.3





#51

4-Methyl-2-Pentanone

Concen: 0.28 ug/l

RT: 8.66 min Scan# 1324

Delta R.T. 0.01 min

Lab File: VX002764.D

Acq: 21 Jun 2018 02:05

Instrument :

MSVOA_X

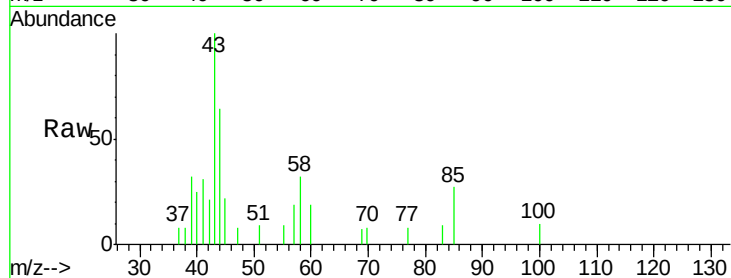
ClientSampled :

Tot Ion: 43 Resp: 1152

Ion Ratio Lower Upper

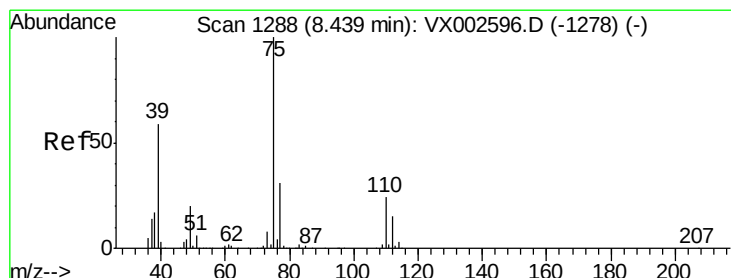
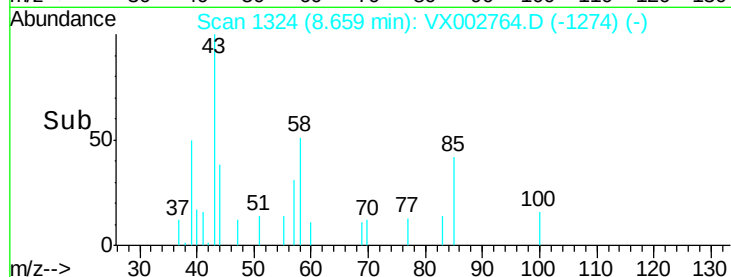
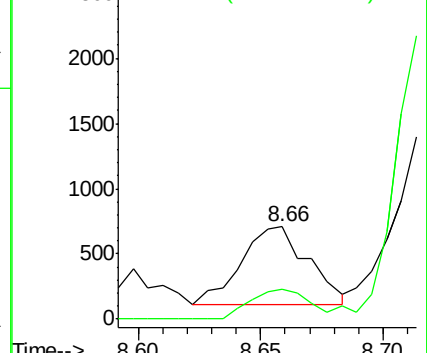
43 100

58 33.1 28.6 42.8



Abundance Ion 43.00 (42.70 to 43.70): VX002764.D (-1274) (-)

Ion 58.00 (57.70 to 58.70): VX002764.D (-1274) (-)



#53

t-1,3-Dichloropropene

Concen: 2.41 ug/l

RT: 8.46 min Scan# 1291

Delta R.T. 0.02 min

Lab File: VX002764.D

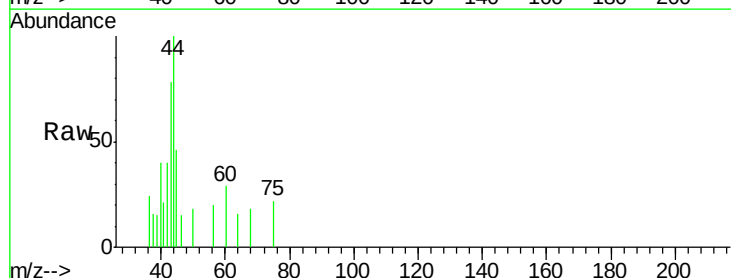
Acq: 21 Jun 2018 02:05

Tgt Ion: 75 Resp: 78

Ion Ratio Lower Upper

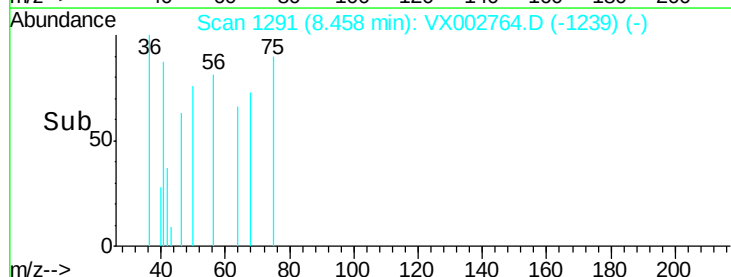
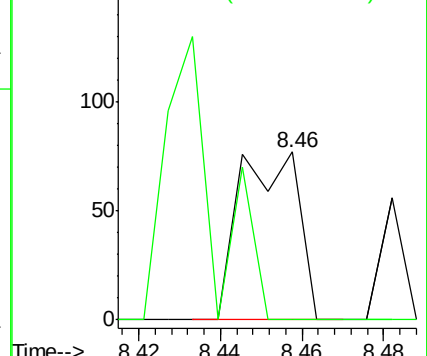
75 100

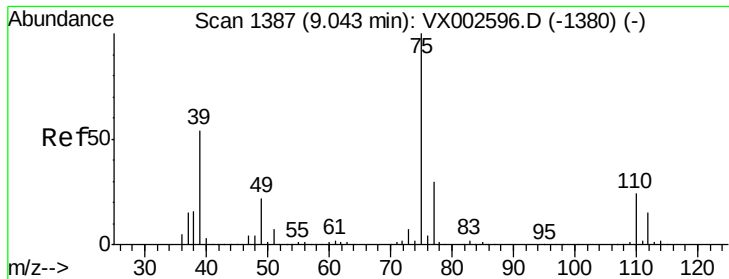
77 0.0 25.4 38.2#



Abundance Ion 74.90 (74.60 to 75.60): VX002764.D (-1239) (-)

Ion 76.90 (76.60 to 77.60): VX002764.D (-1239) (-)



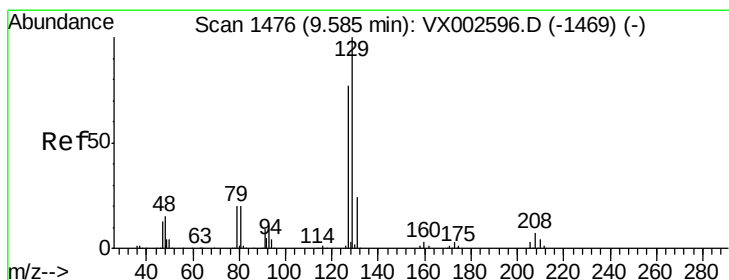
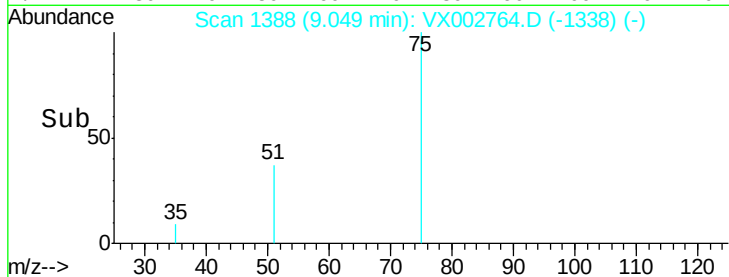
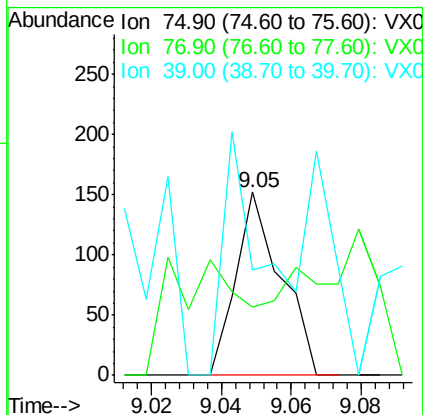
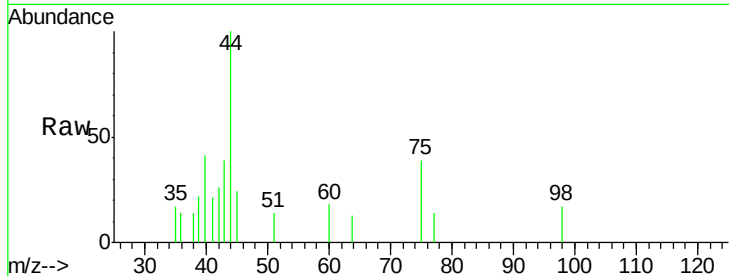


#54

cis-1,3-Dichloropropene
Concen: 3.24 ug/l
RT: 9.05 min Scan# 1388
Delta R.T. 0.01 min
Lab File: VX002764.D
Acq: 21 Jun 2018 02:05

Instrument :
MSVOA_X
ClientSampled :

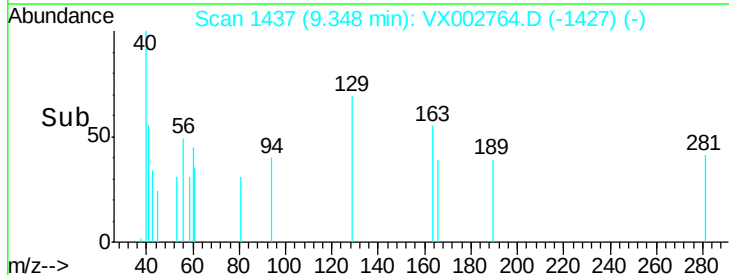
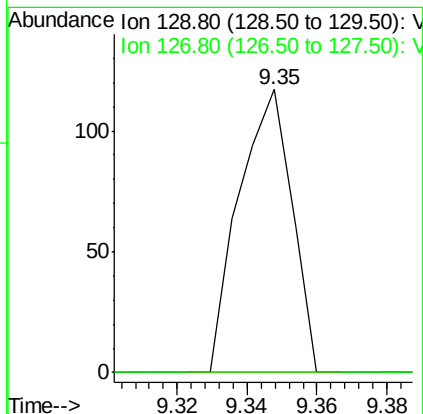
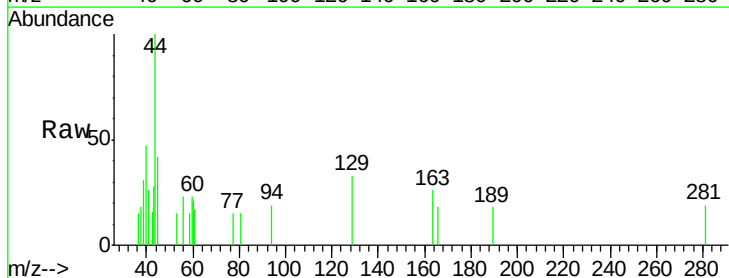
Tot Ion: 75 Resp: 136
Ion Ratio Lower Upper
75 100
77 1.3 24.8 37.2#
39 57.9 42.4 63.6

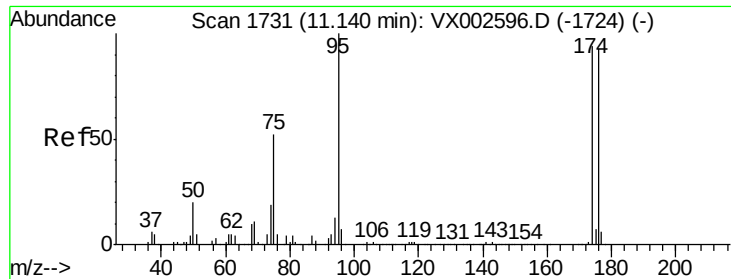


#60

Dibromochloromethane
Concen: 3.80 ug/l
RT: 9.35 min Scan# 1437
Delta R.T. -0.24 min
Lab File: VX002764.D
Acq: 21 Jun 2018 02:05

Tgt Ion: 129 Resp: 123
Ion Ratio Lower Upper
129 100
127 0.0 38.5 115.3#

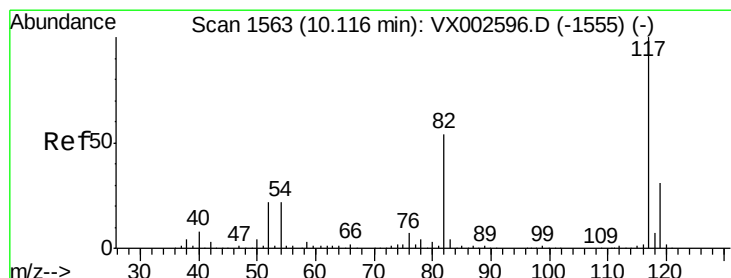
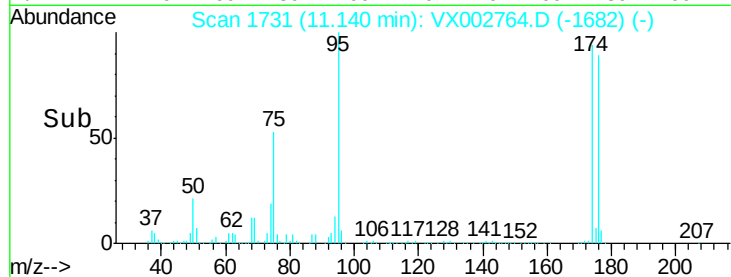
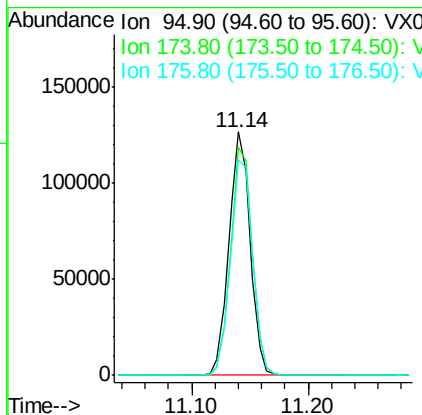
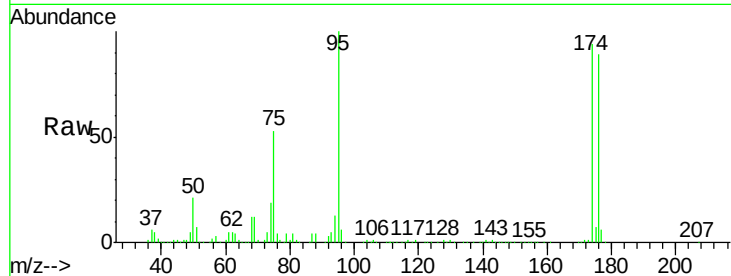




#62
4-Bromofluorobenzene
Concen: 43.95 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. 0.00 min
Lab File: VX002764.D
Acq: 21 Jun 2018 02:05

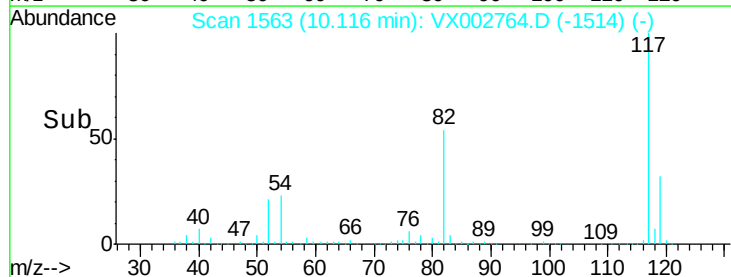
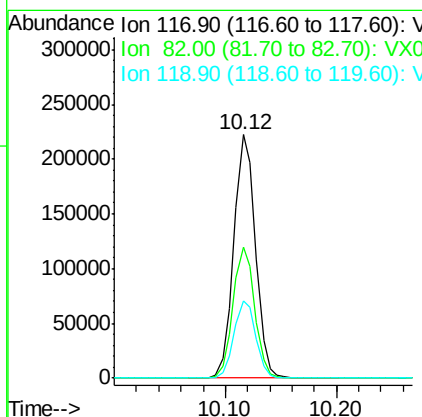
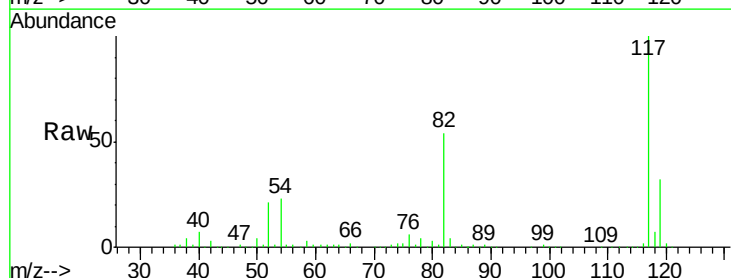
Instrument :
MSVOA_X
ClientSampleId :

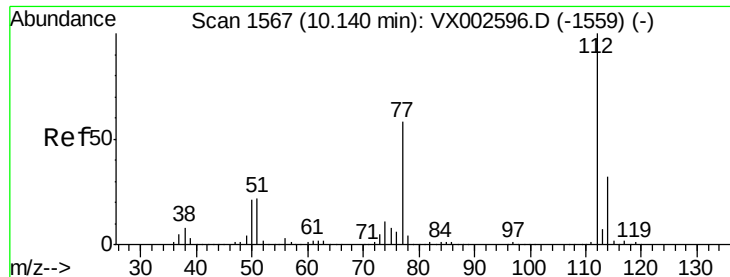
Tot Ion: 95 Resp: 160582
Ion Ratio Lower Upper
95 100
174 96.4 0.0 187.4
176 92.9 0.0 181.0



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. 0.00 min
Lab File: VX002764.D
Acq: 21 Jun 2018 02:05

Tgt Ion: 117 Resp: 298854
Ion Ratio Lower Upper
117 100
82 53.7 45.0 67.4
119 32.0 25.8 38.6





#65

Chlorobenzene

Concen: 0.50 ug/l

RT: 10.15 min Scan# 1568

Delta R.T. 0.01 min

Lab File: VX002764.D

Acq: 21 Jun 2018 02:05

Instrument :

MSVOA_X

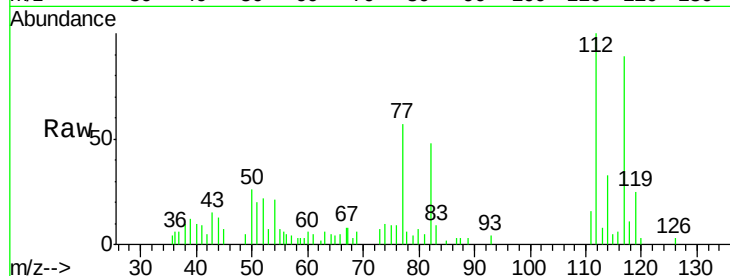
ClientSampled :

Tot Ion:112 Resp: 3670

Ion Ratio Lower Upper

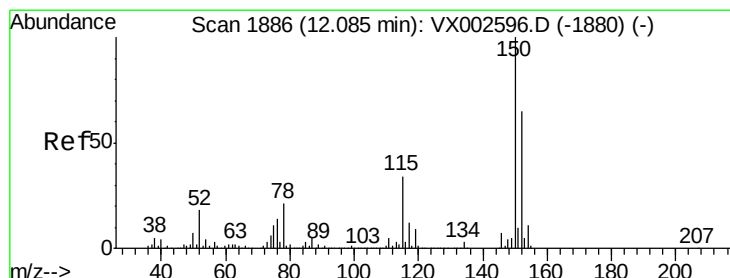
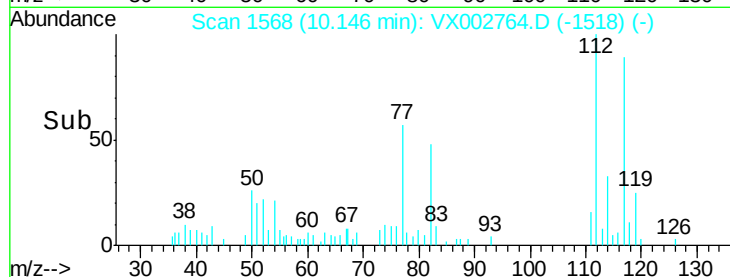
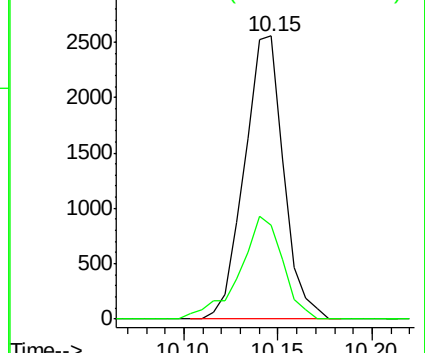
112 100

114 33.4 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: VX002764.D

Acq: 21 Jun 2018 02:05

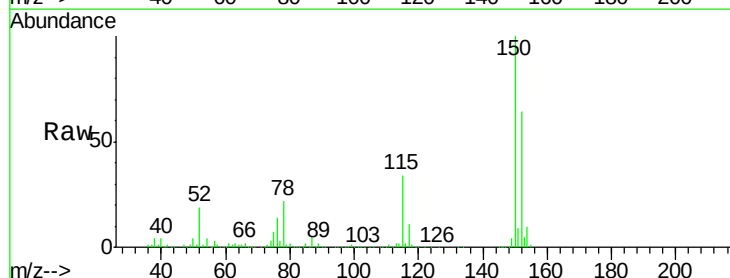
Tgt Ion:152 Resp: 169618

Ion Ratio Lower Upper

152 100

115 55.4 40.1 120.2

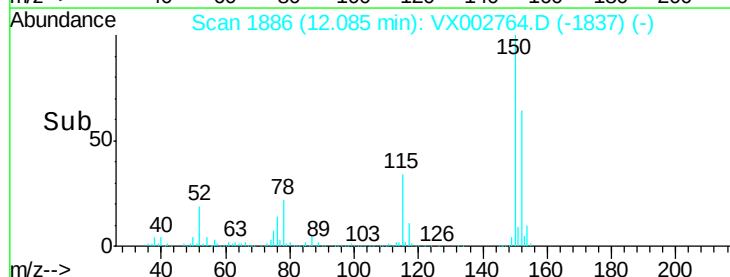
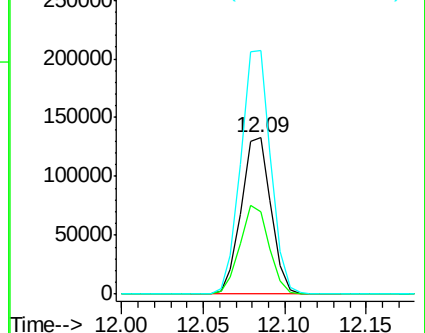
150 157.0 0.0 347.2

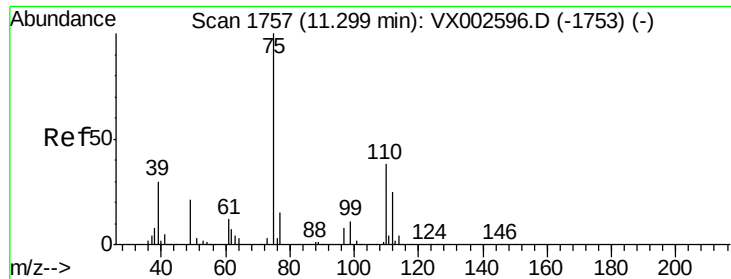


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 26.36 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX002764.D

Acq: 21 Jun 2018 02:05

Instrument :

MSVOA_X

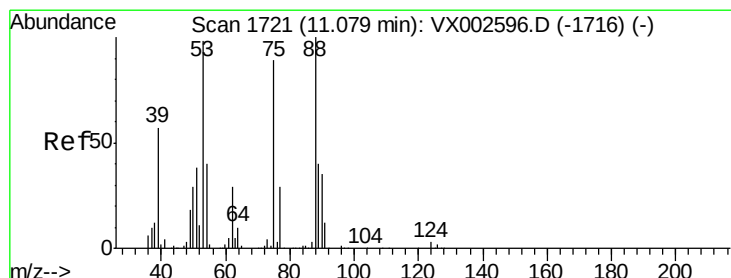
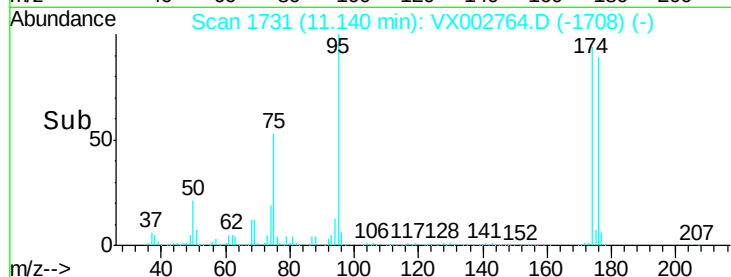
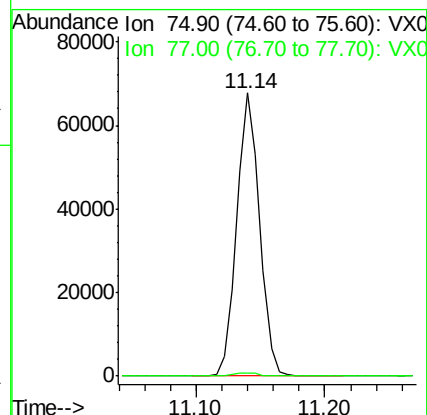
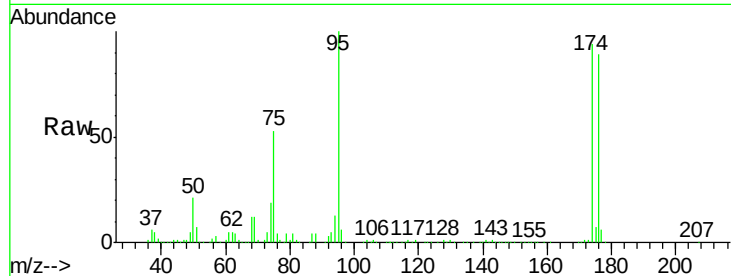
ClientSampleId :

Tot Ion: 75 Resp: 84363

Ion Ratio Lower Upper

75 100

77 1.2 22.8 68.3#



#81

trans-1,4-Dichloro-2-butene

Concen: 81.47 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX002764.D

Acq: 21 Jun 2018 02:05

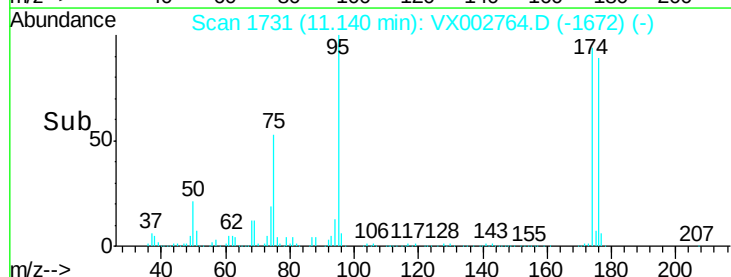
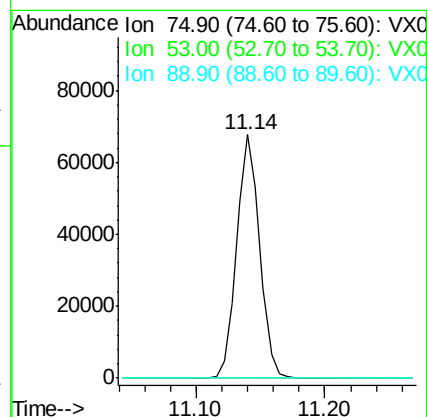
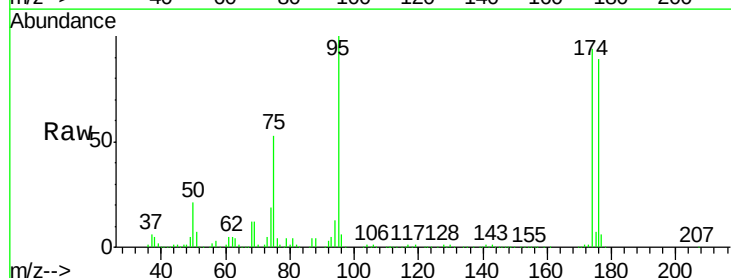
Tgt Ion: 75 Resp: 84363

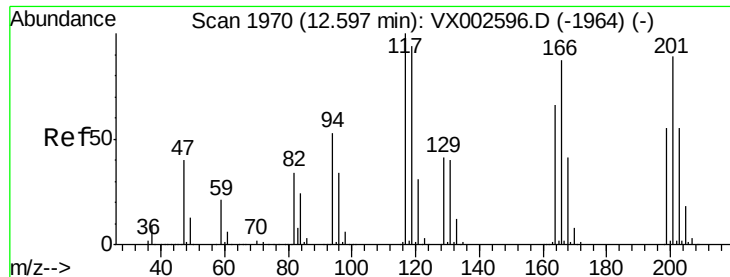
Ion Ratio Lower Upper

75 100

53 0.3 86.8 130.2#

89 0.0 38.2 57.2#





#90

Hexachloroethane

Concen: 2.64 ug/l

RT: 12.39 min Scan# 1936

Delta R.T. -0.21 min

Lab File: VX002764.D

Acq: 21 Jun 2018 02:05

Instrument :

MSVOA_X

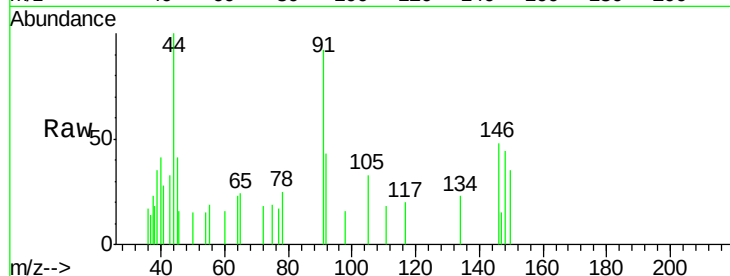
ClientSampled :

Tot Ion:117 Resp: 26

Ion Ratio Lower Upper

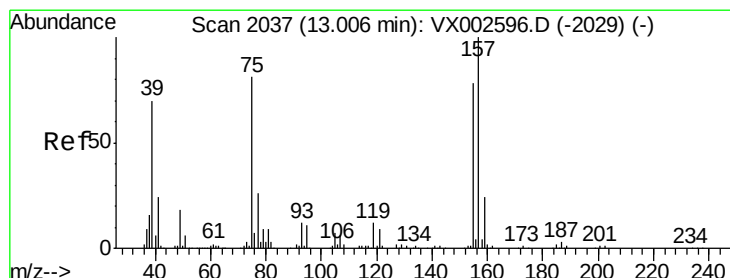
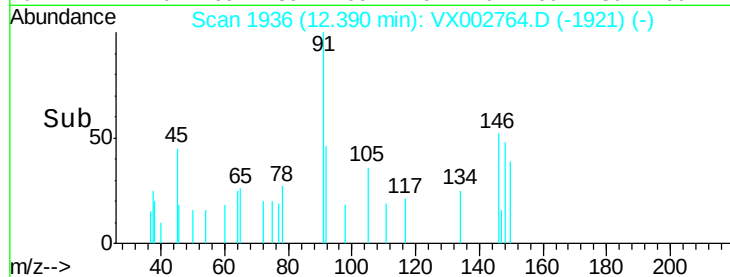
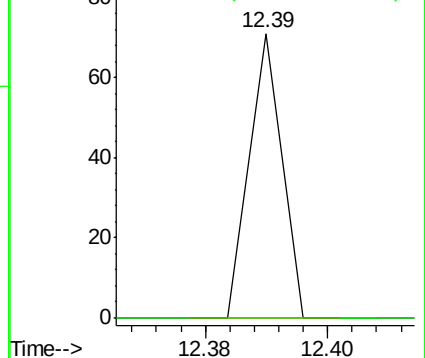
117 100

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



#92

1,2-Dibromo-3-Chloropropane

Concen: 0.38 ug/l

RT: 12.98 min Scan# 2032

Delta R.T. -0.03 min

Lab File: VX002764.D

Acq: 21 Jun 2018 02:05

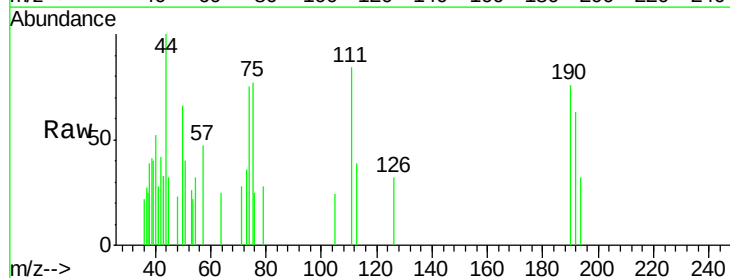
Tgt Ion: 75 Resp: 268

Ion Ratio Lower Upper

75 100

155 0.0 45.8 137.4#

157 0.0 60.1 180.3#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

