

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX070618\
 Data File : VX003229.D
 Acq On : 06 Jul 2018 22:53
 Operator : JC/MD
 Sample : J3844-09DL 5X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jul 07 00:04:41 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X062518W.M
 Quant Title : SW846 8260
 QLast Update : Mon Jun 25 14:38:05 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	269305	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	376505	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	352011	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	198849	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.07	65	174149	46.78	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.56%	
35) Dibromofluoromethane	5.51	113	148248	49.72	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.44%	
50) Toluene-d8	8.72	98	525198	48.24	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.48%	
62) 4-Bromofluorobenzene	11.14	95	184806	44.01	ug/l	0.00
Spiked Amount	50.000		Recovery	=	88.02%	

Target Compounds

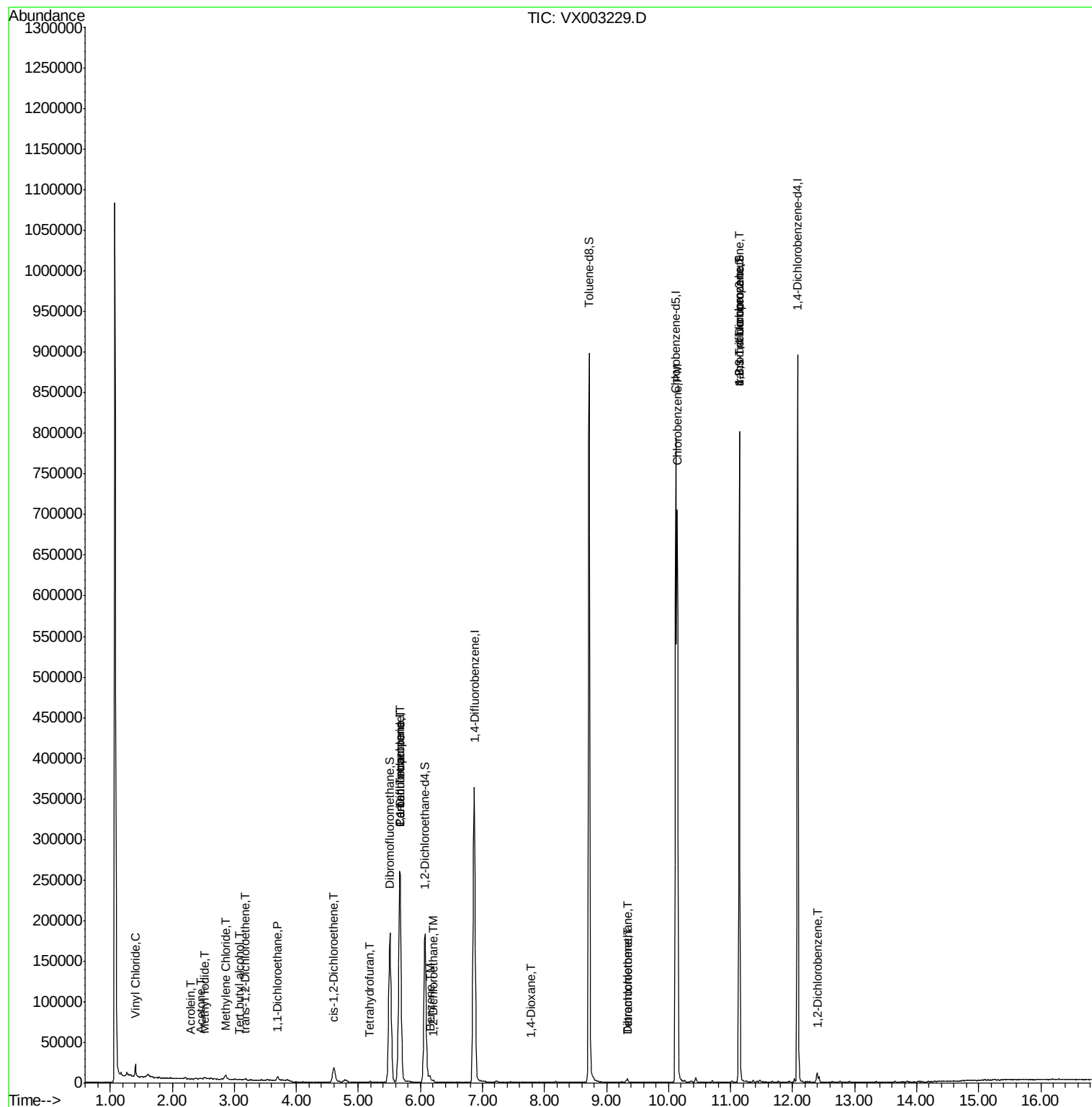
						Qvalue
2) Dichlorodifluoromethane	1.20	85	23	Below Cal	#	43
3) Chloromethane	1.32	50	1018	Below Cal		95
4) Vinyl Chloride	1.40	62	8794	2.89 ug/l	#	72
5) Bromomethane	1.64	94	2120	Below Cal		91
6) Chloroethane	1.71	64	330	Below Cal	#	43
10) Methyl Iodide	2.52	142	2649	6.99 ug/l		95
11) Tert butyl alcohol	3.08	59	962	1.30 ug/l	#	36
13) Acrolein	2.31	56	114	4.50 ug/l	#	51
16) Acetone	2.45	43	1460	0.95 ug/l	#	88
20) Methylene Chloride	2.86	84	2436	0.81 ug/l	#	83
21) trans-1,2-Dichloroethene	3.17	96	659	0.23 ug/l	#	64
24) 1,1-Dichloroethane	3.70	63	4255	0.78 ug/l		95
27) cis-1,2-Dichloroethene	4.60	96	10533	3.25 ug/l		82
29) Tetrahydrofuran	5.18	42	870	0.59 ug/l	#	90
36) 1,1-Dichloropropene	5.67	75	17513	4.24 ug/l	#	50
38) Carbon Tetrachloride	5.67	117	24245	5.35 ug/l	#	16
40) Benzene	6.15	78	8384	0.70 ug/l		91
42) 1,2-Dichloroethane	6.21	62	1662	0.34 ug/l		100
49) 1,4-Dioxane	7.78	88	197	2.64 ug/l	#	59
60) Dibromochloromethane	9.33	129	730	0.22 ug/l	#	11
64) Tetrachloroethene	9.34	164	864	0.22 ug/l	#	64
65) Chlorobenzene	10.14	112	298652	33.40 ug/l		100
76) 1,2,3-Trichloropropane	11.14	75	92010	25.54 ug/l	#	33
81) trans-1,4-Dichloro-2-buten	11.14	75	92010	72.50 ug/l	#	7
91) 1,2-Dichlorobenzene	12.40	146	3352	0.48 ug/l		96

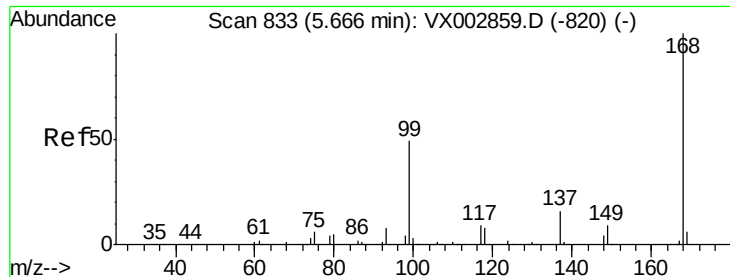
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Mon Jun 25 14:38:05 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 833

Delta R.T. 0.00 min

Lab File: VX003229.D

Acq: 06 Jul 2018 22:53

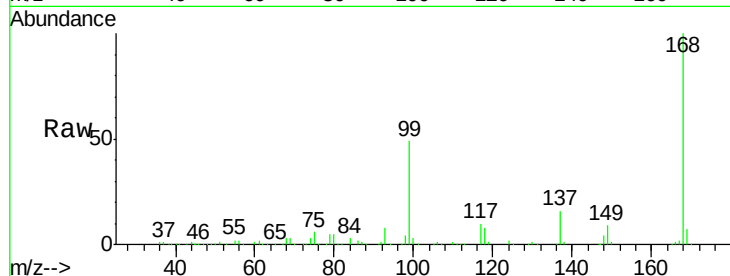
Instrument :
MSVOA_X
ClientSampled :

Tot Ion:168 Resp: 269305

Ion Ratio Lower Upper

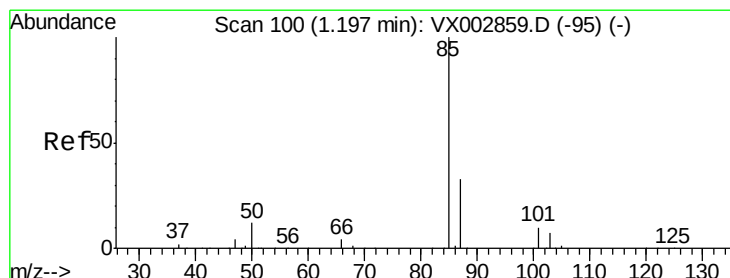
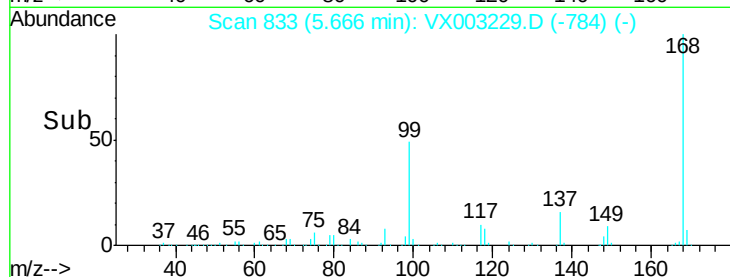
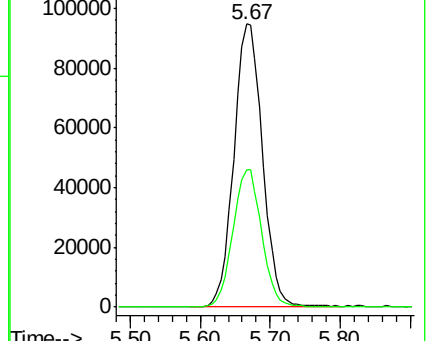
168 100

99 48.8 39.3 58.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.20 min Scan# 100

Delta R.T. 0.00 min

Lab File: VX003229.D

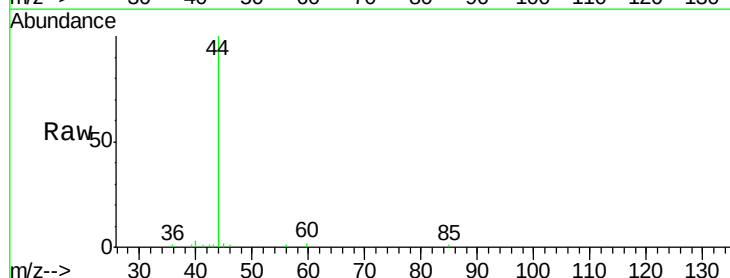
Acq: 06 Jul 2018 22:53

Tgt Ion: 85 Resp: 23

Ion Ratio Lower Upper

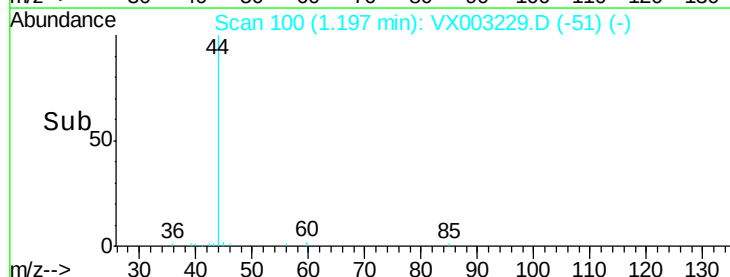
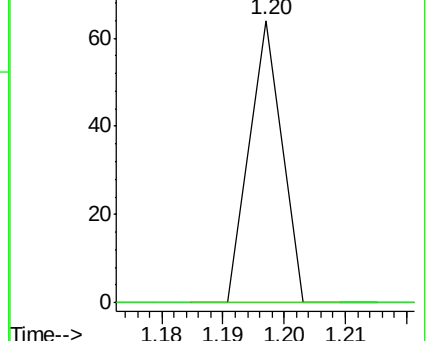
85 100

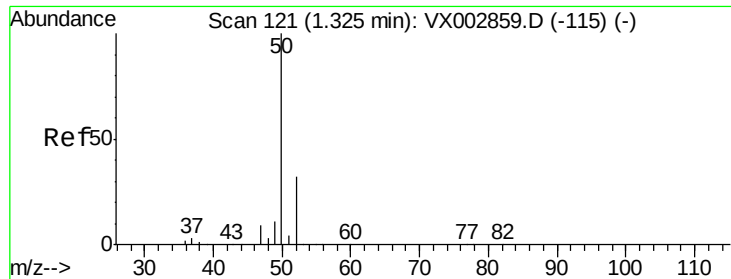
87 0.0 16.0 47.9#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0





#3

Chloromethane

Concen: Below Cal

RT: 1.32 min Scan# 121

Delta R.T. 0.00 min

Lab File: VX003229.D

Acq: 06 Jul 2018 22:53

Instrument :

MSVOA_X

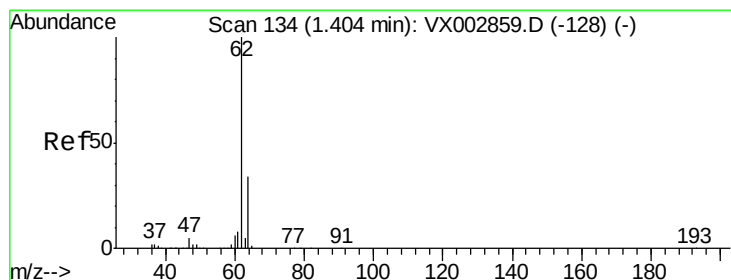
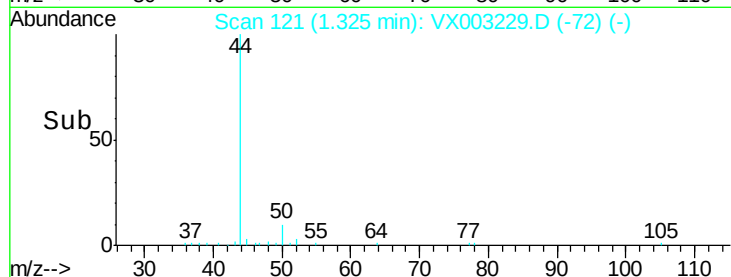
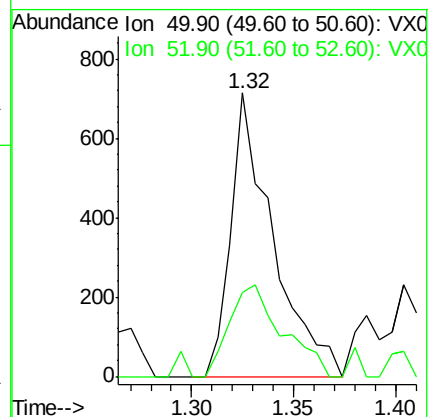
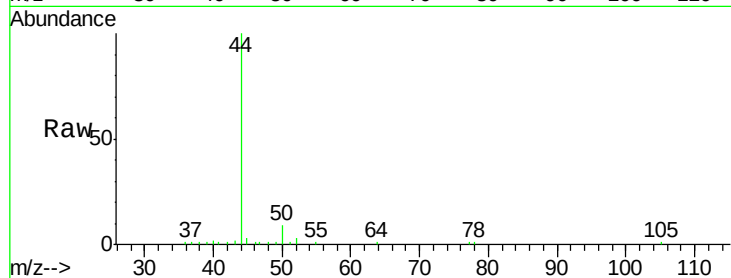
ClientSampled :

Tot Ion: 50 Resp: 1018

Ion Ratio Lower Upper

50 100

52 29.6 25.7 38.5



#4

Vinyl Chloride

Concen: 2.89 ug/l

RT: 1.40 min Scan# 134

Delta R.T. 0.00 min

Lab File: VX003229.D

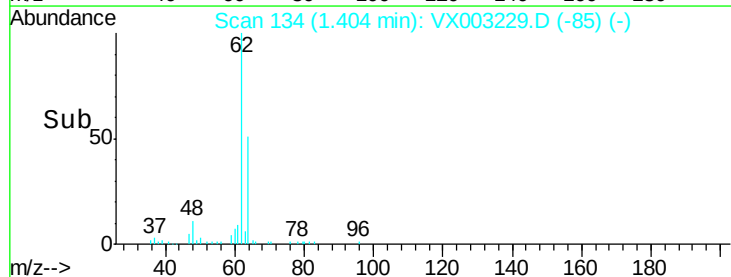
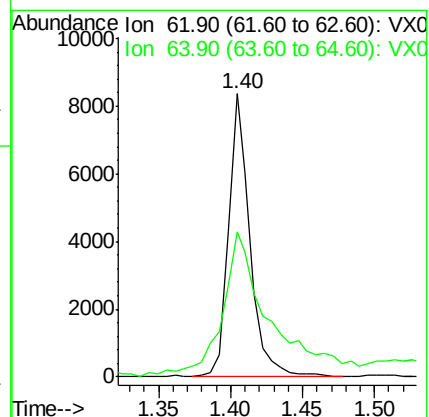
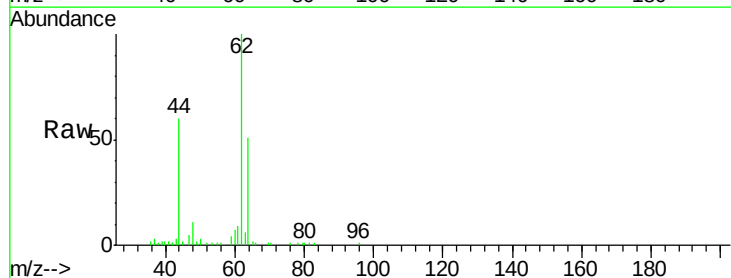
Acq: 06 Jul 2018 22:53

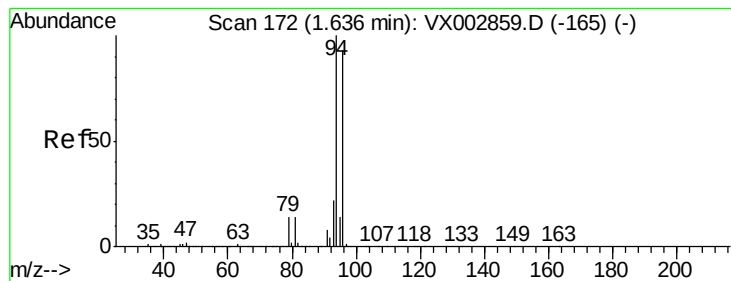
Tgt Ion: 62 Resp: 8794

Ion Ratio Lower Upper

62 100

64 47.5 25.4 38.2#





#5

Bromomethane

Concen: Below Cal

RT: 1.64 min Scan# 173

Delta R.T. 0.01 min

Lab File: VX003229.D

Acq: 06 Jul 2018 22:53

Instrument :

MSVOA_X

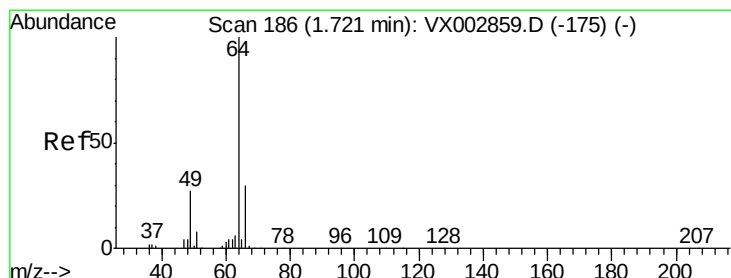
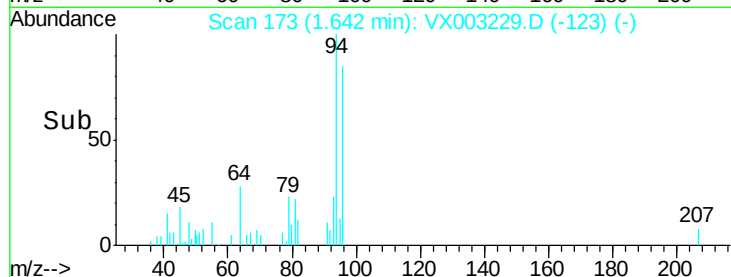
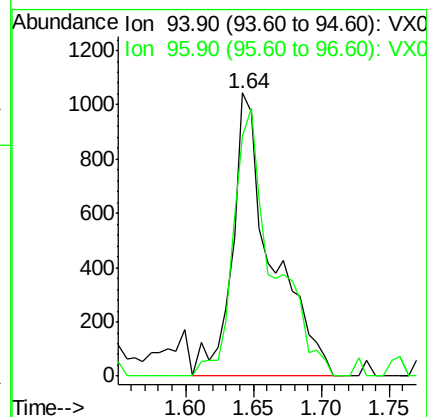
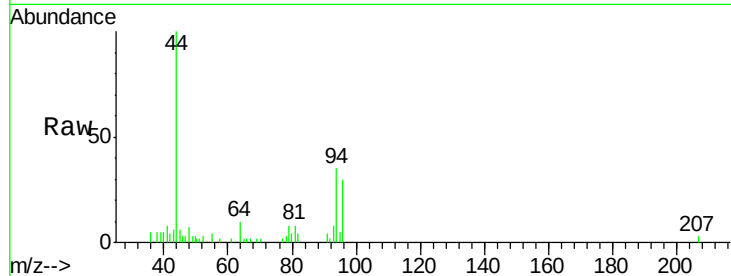
ClientSampleId :

Tot Ion: 94 Resp: 2120

Ion Ratio Lower Upper

94 100

96 84.6 74.9 112.3



#6

Chloroethane

Concen: Below Cal

RT: 1.71 min Scan# 184

Delta R.T. -0.01 min

Lab File: VX003229.D

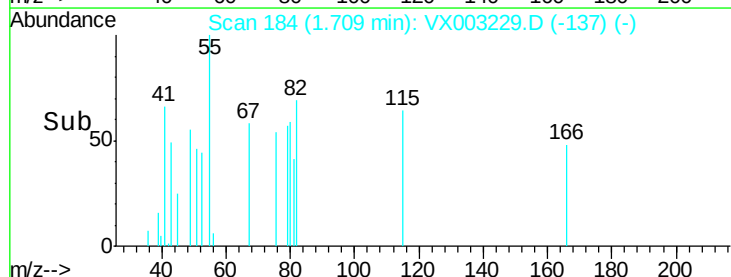
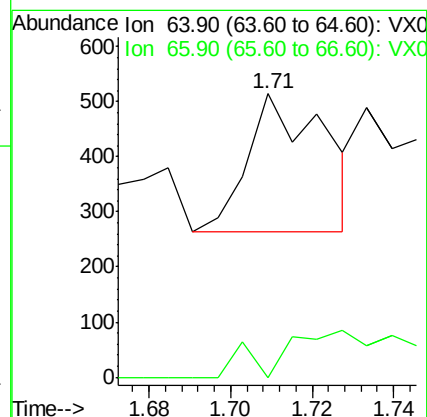
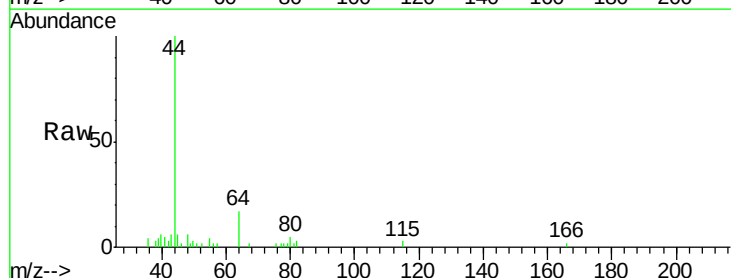
Acq: 06 Jul 2018 22:53

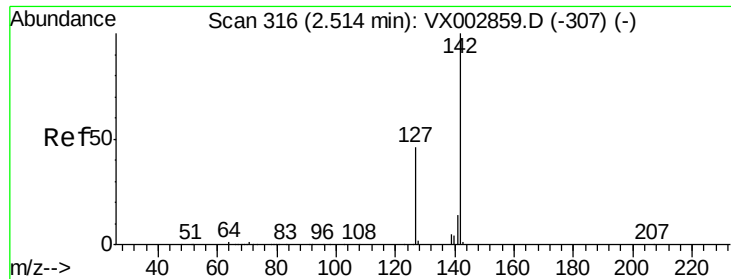
Tgt Ion: 64 Resp: 330

Ion Ratio Lower Upper

64 100

66 0.0 25.5 38.3#

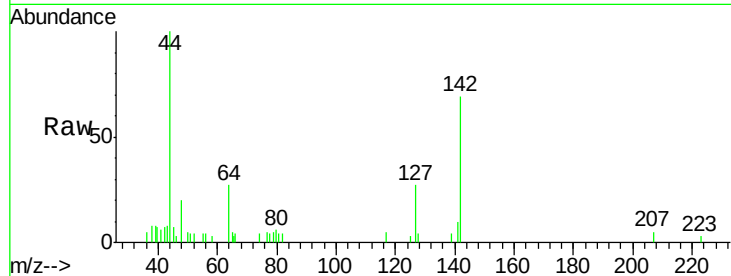




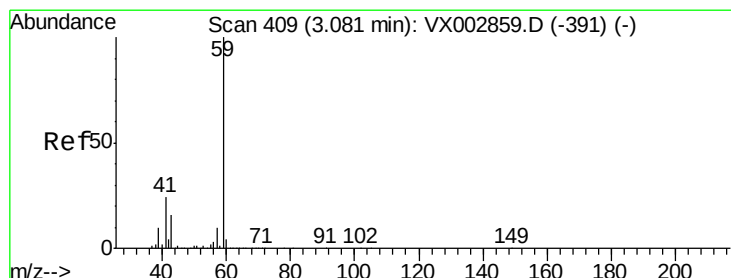
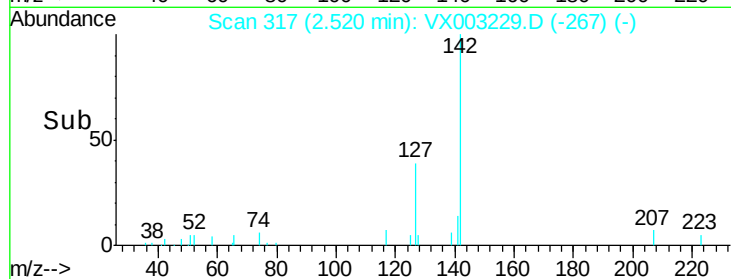
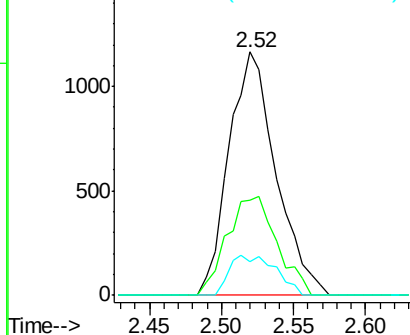
#10
Methyl Iodide
Concen: 6.99 ug/l
RT: 2.52 min Scan# 317
Delta R.T. 0.01 min
Lab File: VX003229.D
Acq: 06 Jul 2018 22:53

Instrument :
MSVOA_X
ClientSampled :

Tot Ion:142 Resp: 2649
Ion Ratio Lower Upper
142 100
127 42.9 36.6 55.0
141 16.1 11.3 16.9

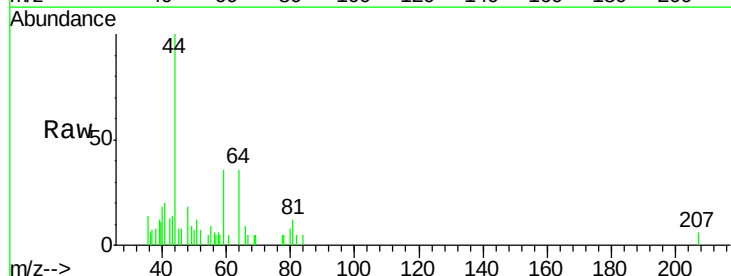


Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V

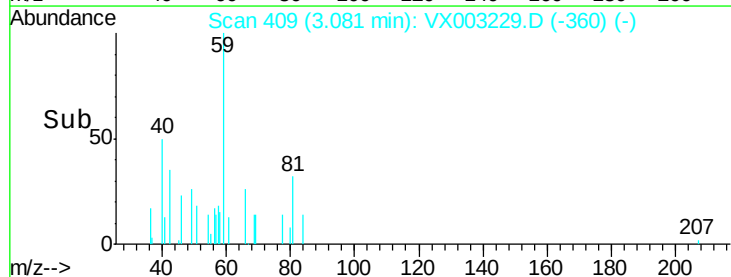
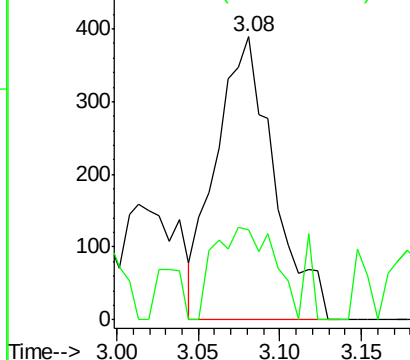


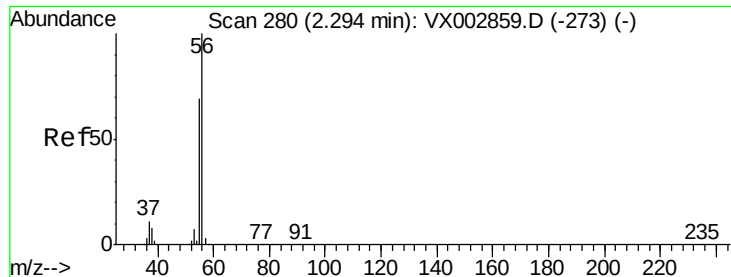
#11
Tert butyl alcohol
Concen: 1.30 ug/l
RT: 3.08 min Scan# 409
Delta R.T. 0.00 min
Lab File: VX003229.D
Acq: 06 Jul 2018 22:53

Tgt Ion: 59 Resp: 962
Ion Ratio Lower Upper
59 100
57 33.9 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: 4.50 ug/l

RT: 2.31 min Scan# 282

Delta R.T. 0.01 min

Lab File: VX003229.D

Acq: 06 Jul 2018 22:53

Instrument :

MSVOA_X

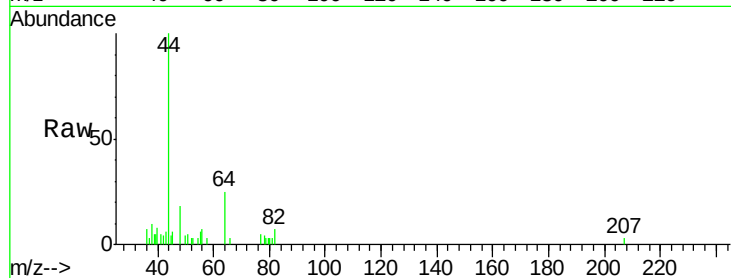
ClientSampleId :

Tot Ion: 56 Resp: 114

Ion Ratio Lower Upper

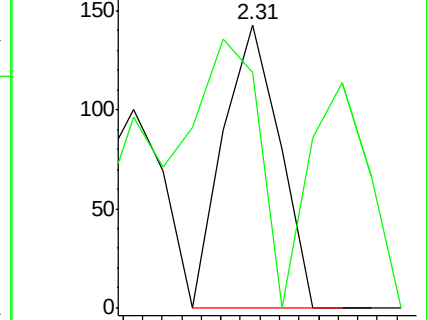
56 100

55 111.4 57.0 85.4#

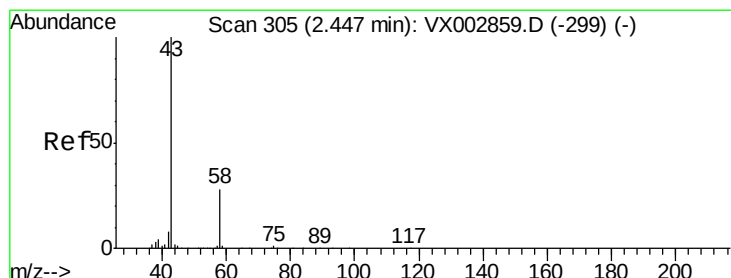
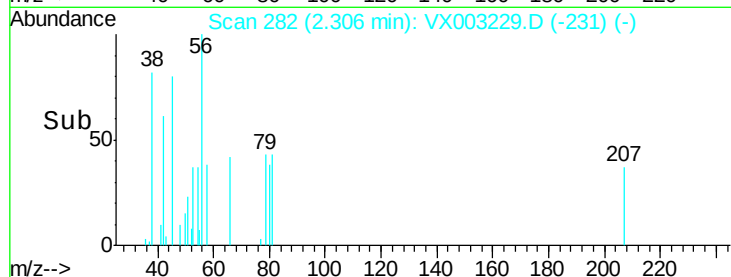


Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



Time-->



#16

Acetone

Concen: 0.95 ug/l

RT: 2.45 min Scan# 305

Delta R.T. 0.00 min

Lab File: VX003229.D

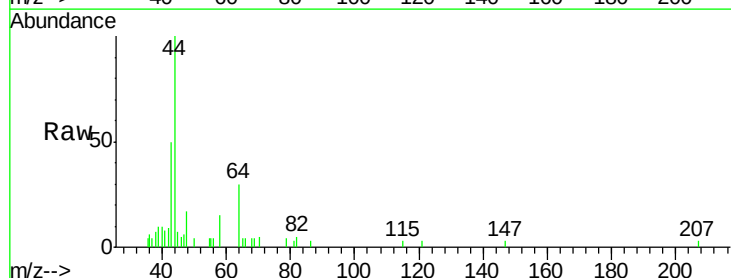
Acq: 06 Jul 2018 22:53

Tgt Ion: 43 Resp: 1460

Ion Ratio Lower Upper

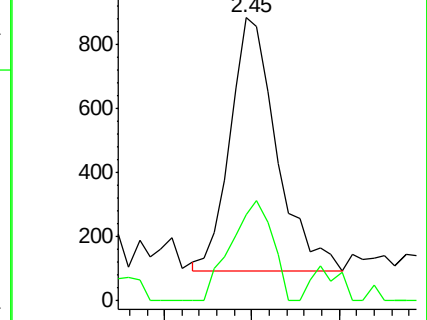
43 100

58 34.0 22.1 33.1#

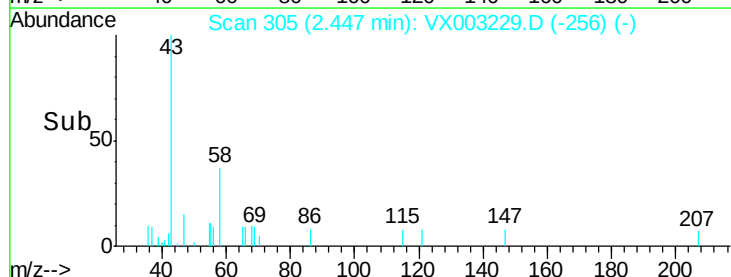


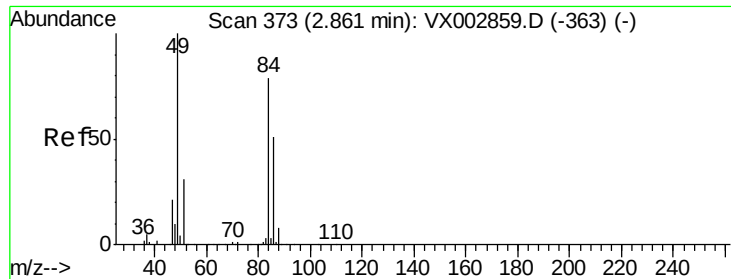
Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



Time-->

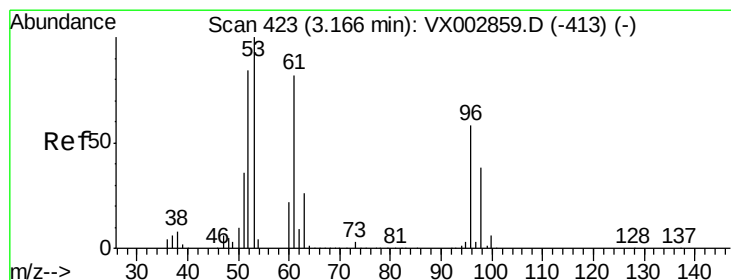
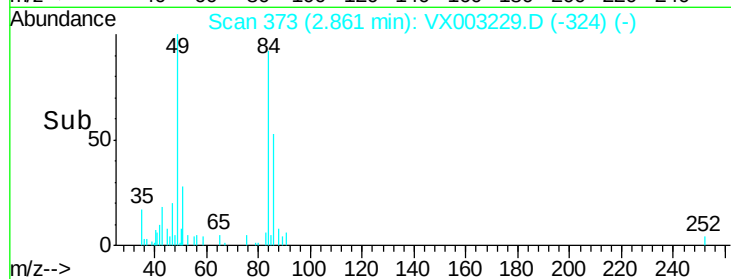
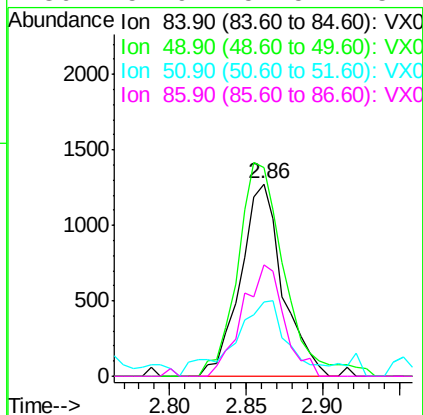
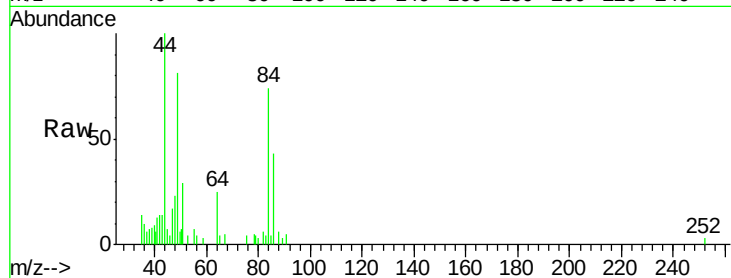




#20
Methylene Chloride
Concen: 0.81 ug/l
RT: 2.86 min Scan# 373
Delta R.T. 0.00 min
Lab File: VX003229.D
Acq: 06 Jul 2018 22:53

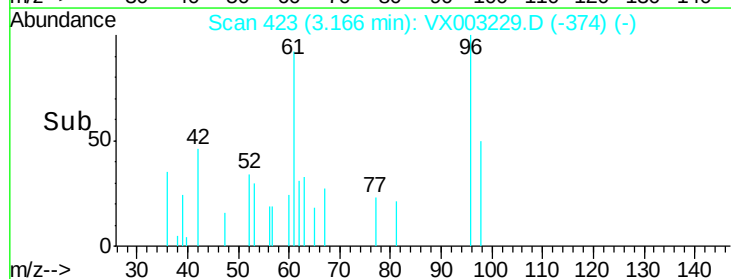
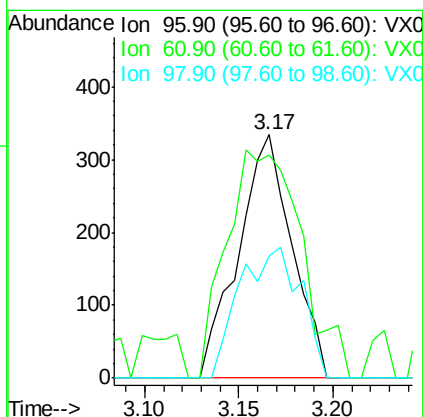
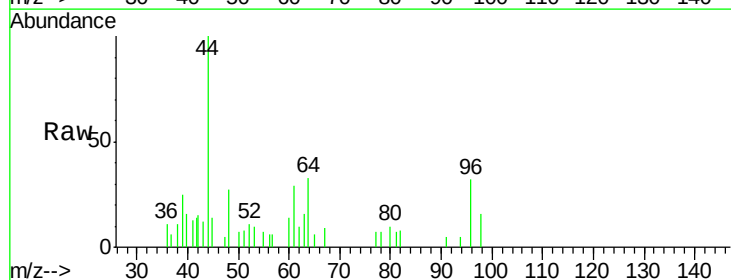
Instrument :
MSVOA_X
ClientSampleId :

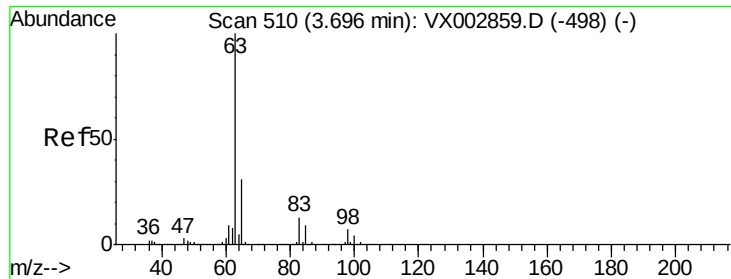
Tot Ion: 84 Resp: 2436
Ion Ratio Lower Upper
84 100
49 108.8 107.8 161.6
51 32.1 32.8 49.2#
86 57.9 52.5 78.7



#21
trans-1,2-Dichloroethene
Concen: 0.23 ug/l
RT: 3.17 min Scan# 423
Delta R.T. 0.00 min
Lab File: VX003229.D
Acq: 06 Jul 2018 22:53

Tgt Ion: 96 Resp: 659
Ion Ratio Lower Upper
96 100
61 91.6 117.0 175.4#
98 50.3 52.4 78.6#

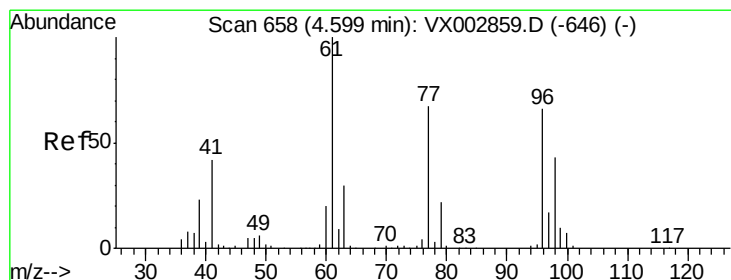
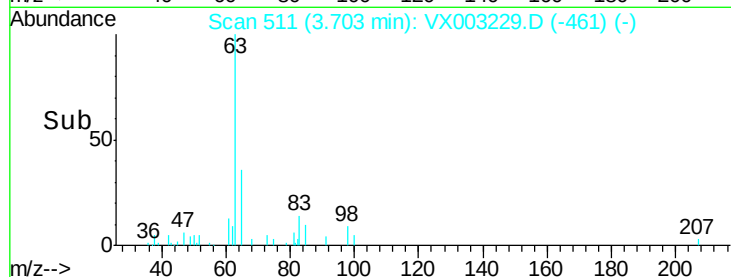
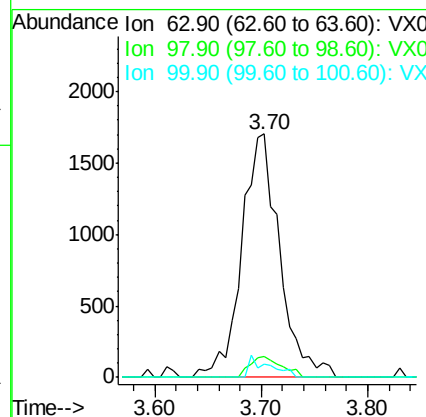
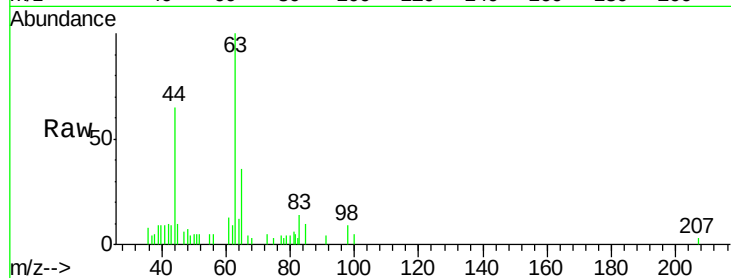




#24
1,1-Dichloroethane
Concen: 0.78 ug/l
RT: 3.70 min Scan# 511
Delta R.T. 0.01 min
Lab File: VX003229.D
Acq: 06 Jul 2018 22:53

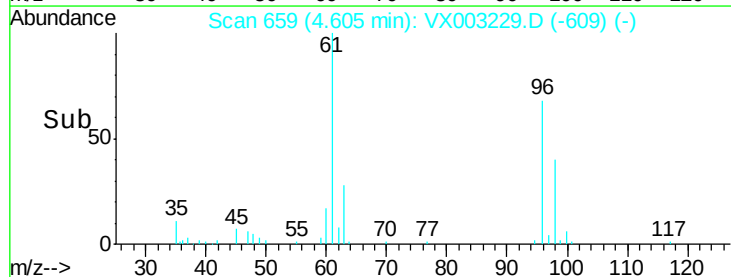
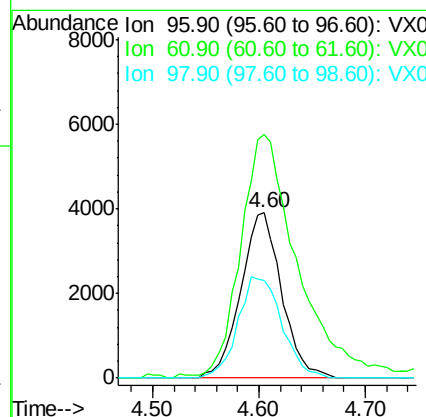
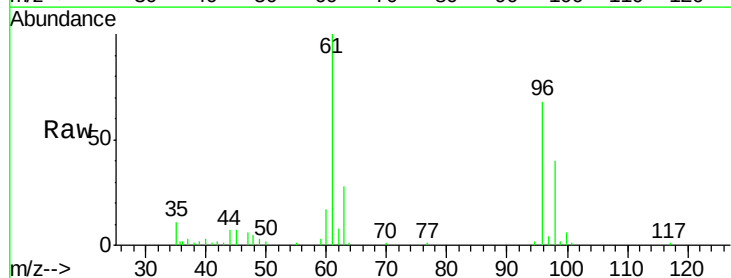
Instrument :
MSVOA_X
ClientSampleId :

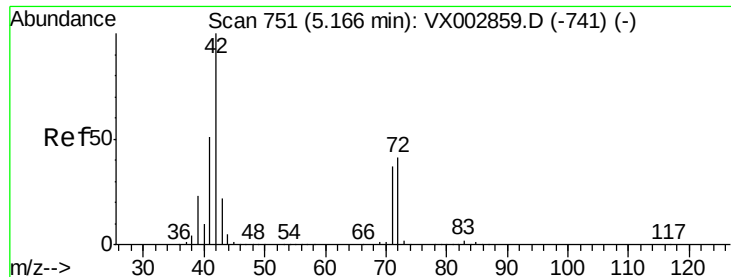
Tot Ion	Ratio	Lower	Upper
63	100		
98	8.6	3.4	10.2
100	5.4	2.0	6.0



#27
cis-1,2-Dichloroethene
Concen: 3.25 ug/l
RT: 4.60 min Scan# 659
Delta R.T. 0.01 min
Lab File: VX003229.D
Acq: 06 Jul 2018 22:53

Tgt Ion	Ratio	Lower	Upper
96	100		
61	198.5	0.0	330.2
98	65.9	0.0	130.2





#29

Tetrahydrofuran

Concen: 0.59 ug/l

RT: 5.18 min Scan# 753

Delta R.T. 0.01 min

Lab File: VX003229.D

Acq: 06 Jul 2018 22:53

Instrument :

MSVOA_X

ClientSampleId :

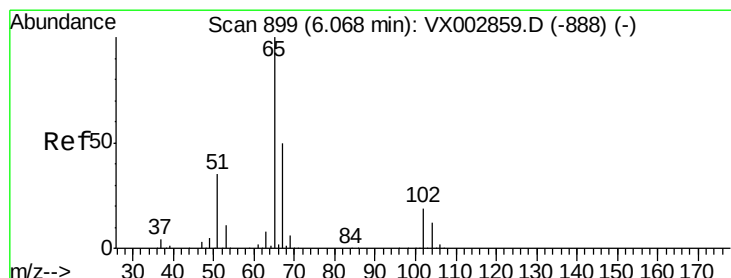
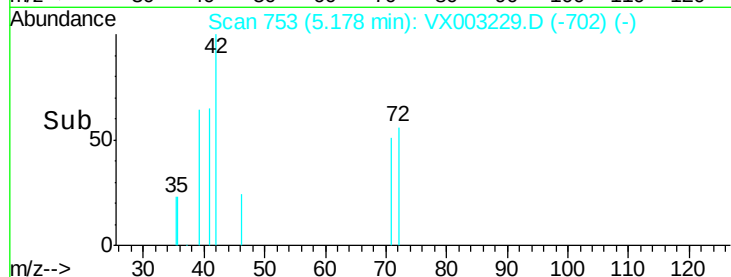
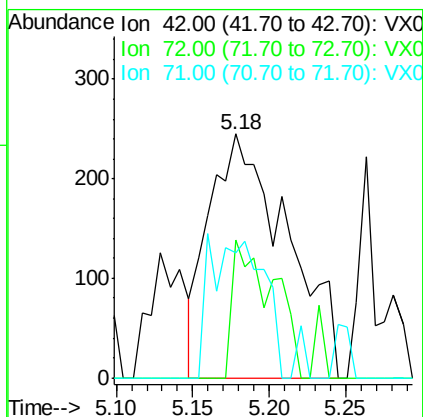
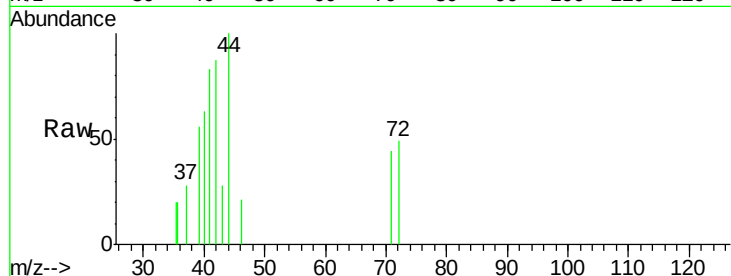
Tot Ion: 42 Resp: 870

Ion Ratio Lower Upper

42 100

72 29.5 32.0 48.0#

71 39.3 30.1 45.1



#33

1,2-Dichloroethane-d4

Concen: 46.78 ug/l

RT: 6.07 min Scan# 900

Delta R.T. 0.01 min

Lab File: VX003229.D

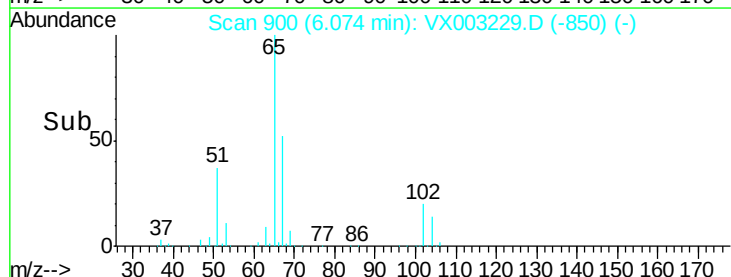
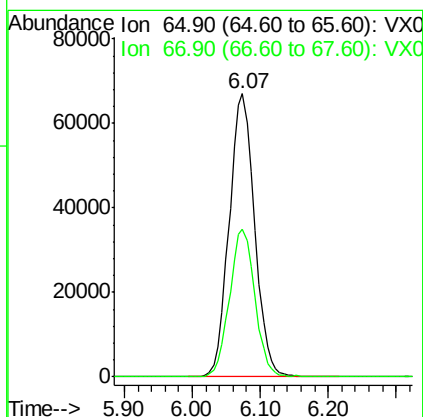
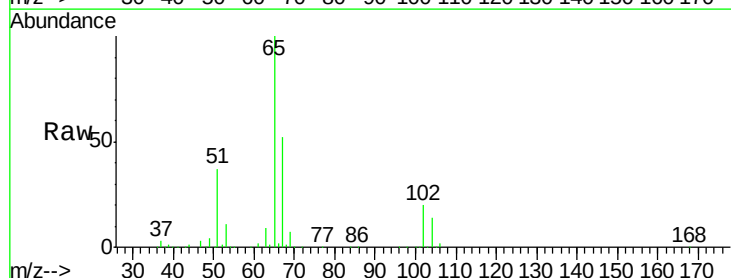
Acq: 06 Jul 2018 22:53

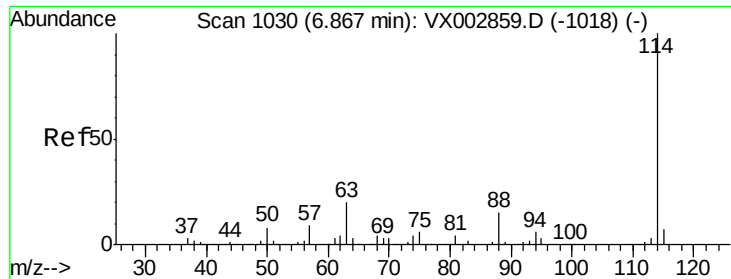
Tgt Ion: 65 Resp: 174149

Ion Ratio Lower Upper

65 100

67 52.0 0.0 102.6

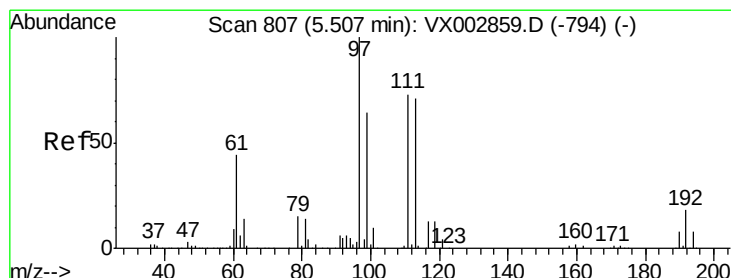
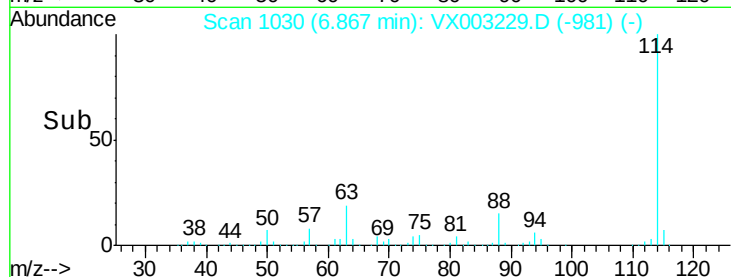
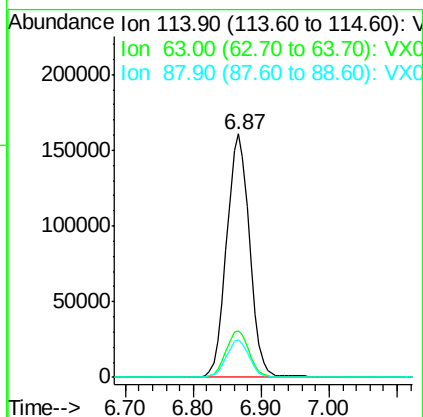
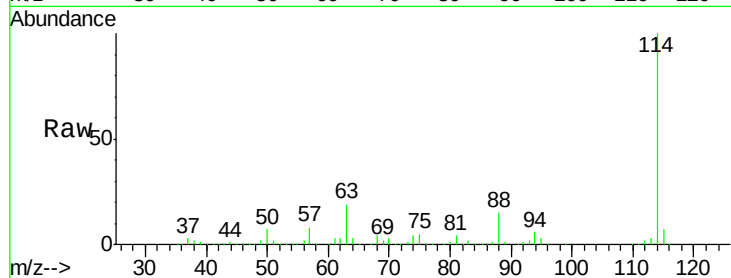




#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.87 min Scan# 1030
 Delta R.T. 0.00 min
 Lab File: VX003229.D
 Acq: 06 Jul 2018 22:53

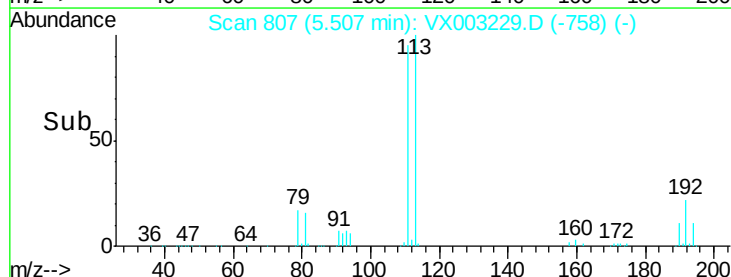
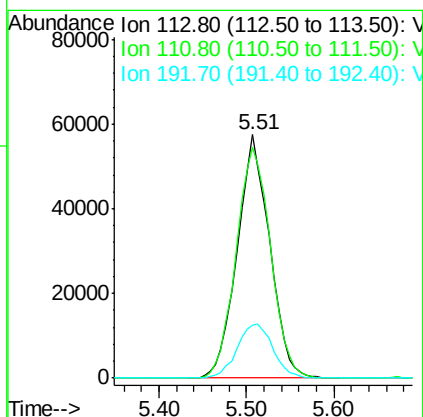
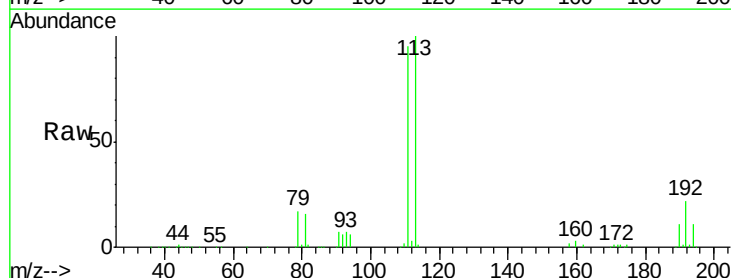
Instrument :
 MSVOA_X
 ClientSampleId :

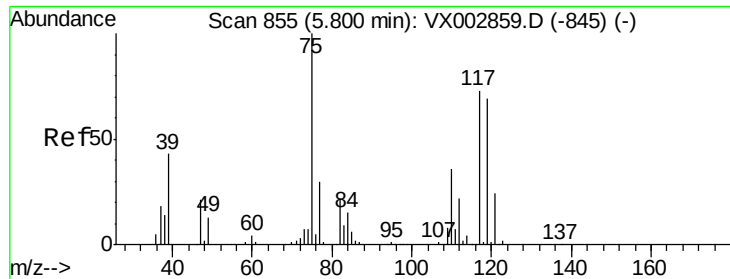
Tot Ion:114 Resp: 376505
 Ion Ratio Lower Upper
 114 100
 63 19.3 0.0 41.4
 88 15.2 0.0 30.0



#35
 Dibromofluoromethane
 Concen: 49.72 ug/l
 RT: 5.51 min Scan# 807
 Delta R.T. 0.00 min
 Lab File: VX003229.D
 Acq: 06 Jul 2018 22:53

Tgt Ion:113 Resp: 148248
 Ion Ratio Lower Upper
 113 100
 111 101.3 81.4 122.0
 192 24.7 19.1 28.7

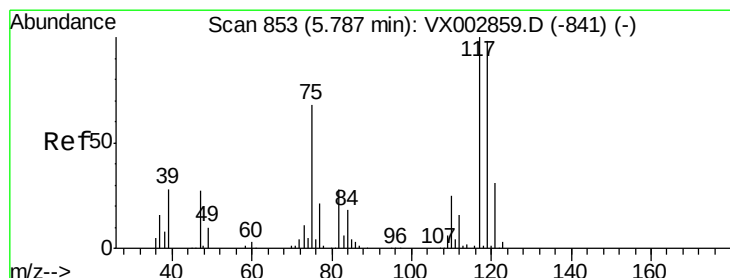
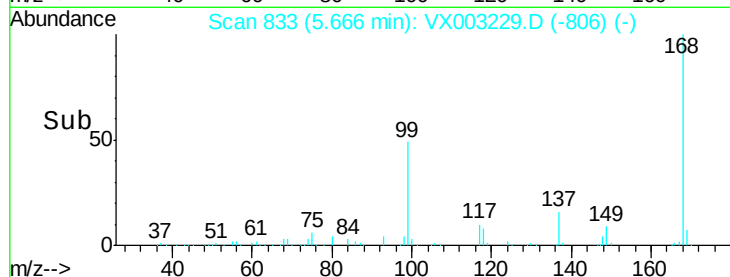
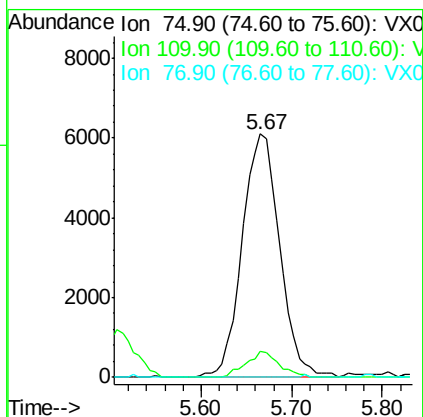
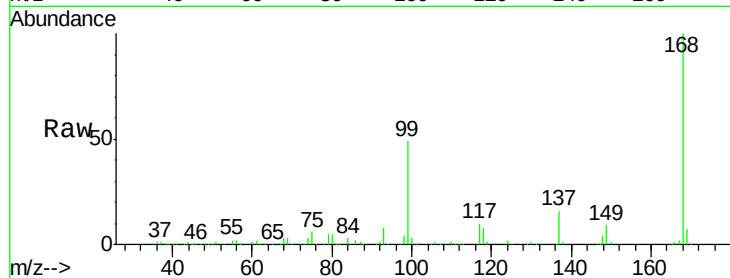




#36
 1,1-Dichloropropene
 Concen: 4.24 ug/l
 RT: 5.67 min Scan# 833
 Delta R.T. -0.13 min
 Lab File: VX003229.D
 Acq: 06 Jul 2018 22:53

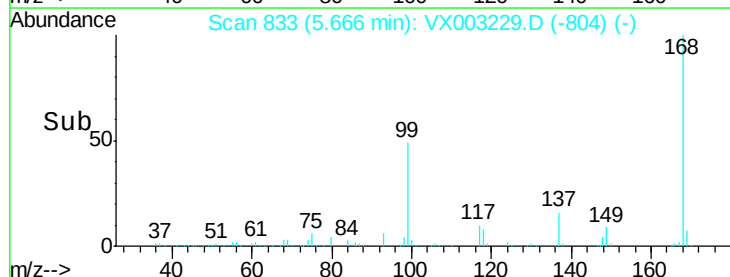
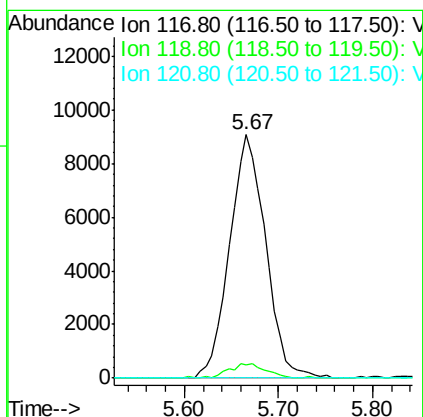
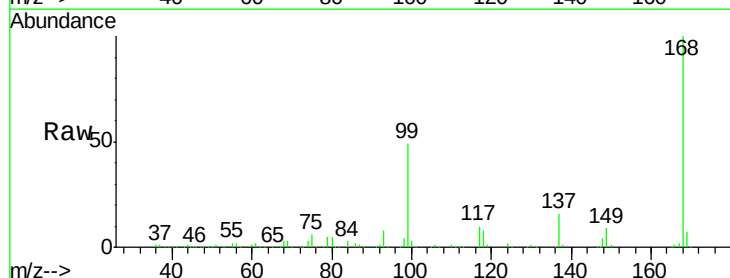
Instrument :
 MSVOA_X
 ClientSampleId :

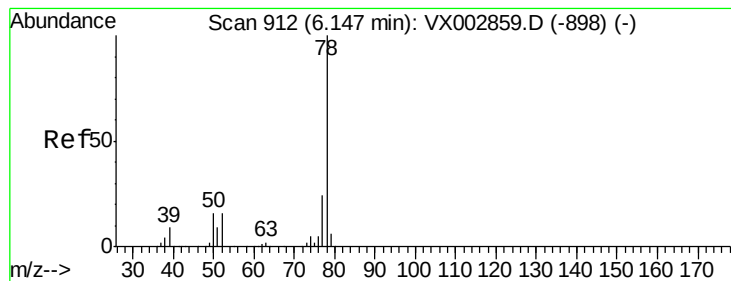
Tot Ion	Ratio	Lower	Upper
75	100		
110	9.4	18.1	54.4#
77	0.0	24.3	36.5#



#38
 Carbon Tetrachloride
 Concen: 5.35 ug/l
 RT: 5.67 min Scan# 833
 Delta R.T. -0.12 min
 Lab File: VX003229.D
 Acq: 06 Jul 2018 22:53

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.3	77.4	116.0#
121	0.0	24.4	36.6#





#40

Benzene

Concen: 0.70 ug/l

RT: 6.15 min Scan# 913

Delta R.T. 0.01 min

Lab File: VX003229.D

Acq: 06 Jul 2018 22:53

Instrument :

MSVOA_X

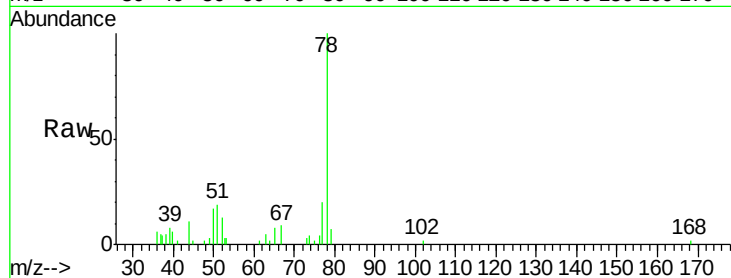
ClientSampled :

Tot Ion: 78 Resp: 8384

Ion Ratio Lower Upper

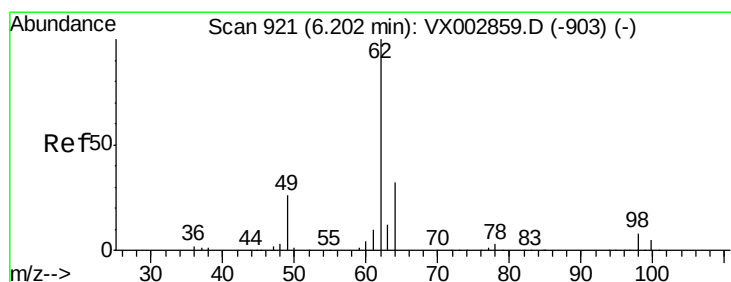
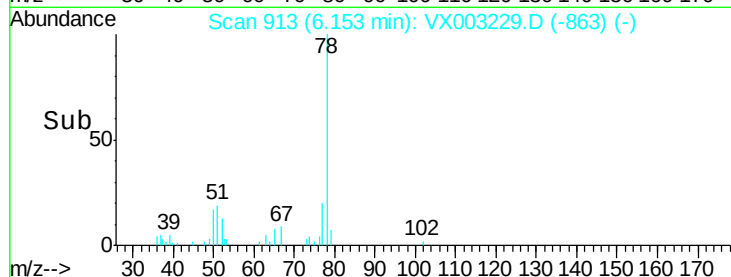
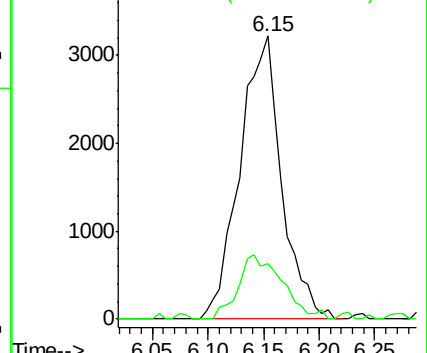
78 100

77 19.6 19.1 28.7



Abundance Ion 78.00 (77.70 to 78.70): VX0

Ion 77.00 (76.70 to 77.70): VX0



#42

1,2-Dichloroethane

Concen: 0.34 ug/l

RT: 6.21 min Scan# 922

Delta R.T. 0.01 min

Lab File: VX003229.D

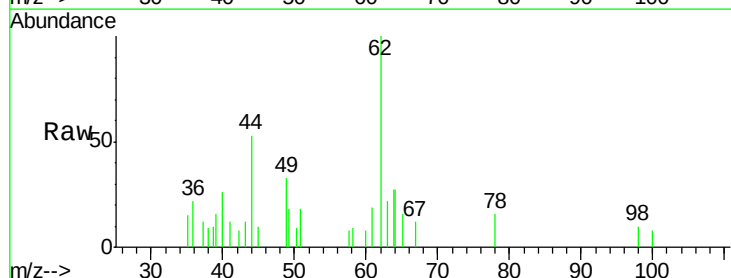
Acq: 06 Jul 2018 22:53

Tgt Ion: 62 Resp: 1662

Ion Ratio Lower Upper

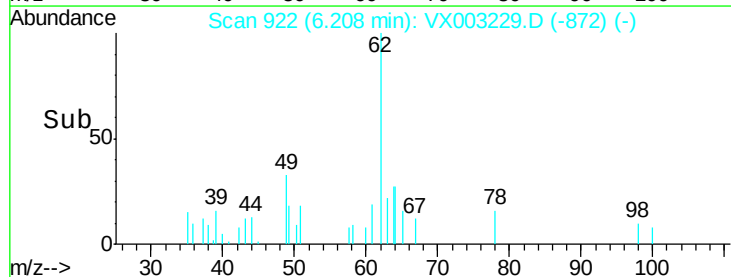
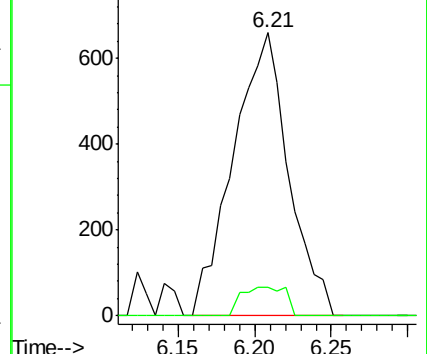
62 100

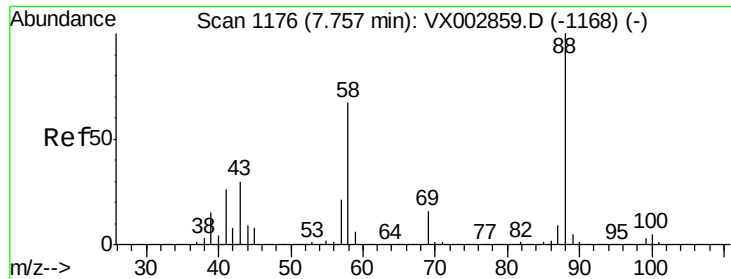
98 8.1 0.0 16.6



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 97.90 (97.60 to 98.60): VX0

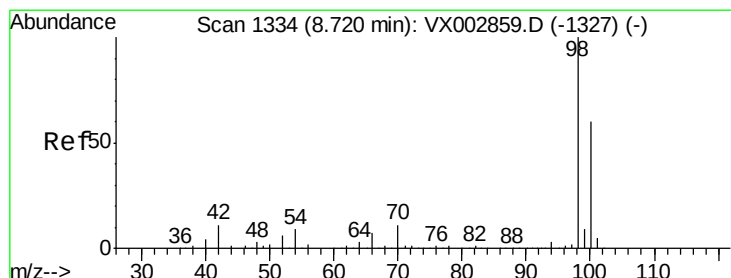
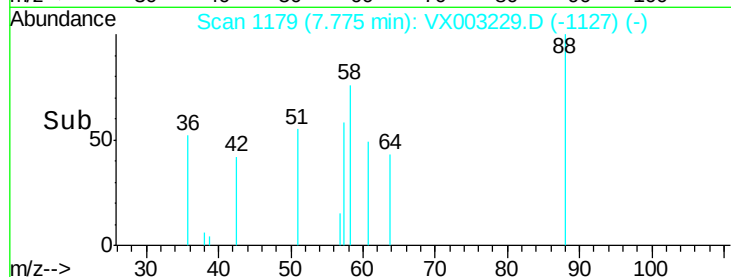
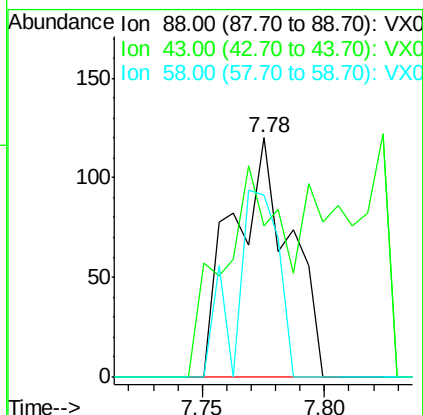
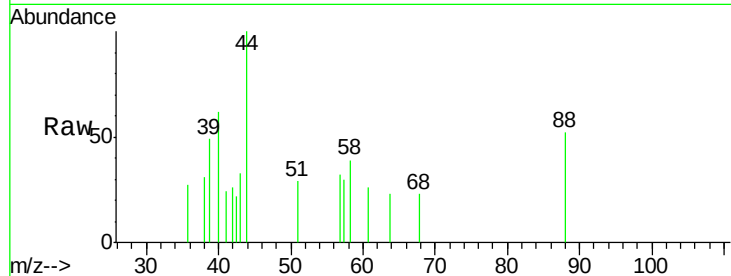




#49
1,4-Dioxane
Concen: 2.64 ug/l
RT: 7.78 min Scan# 1179
Delta R.T. 0.02 min
Lab File: VX003229.D
Acq: 06 Jul 2018 22:53

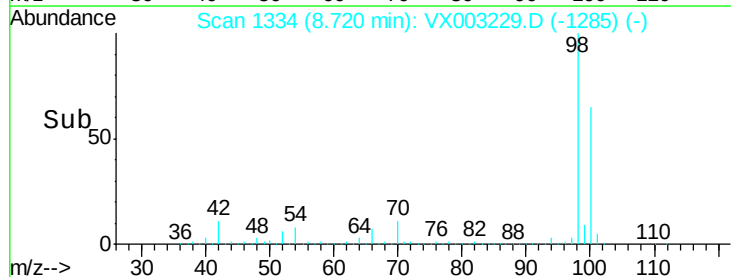
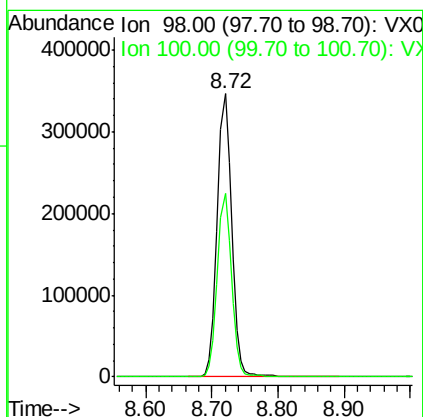
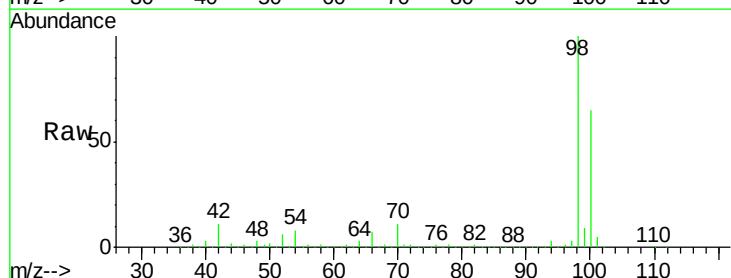
Instrument :
MSVOA_X
ClientSampled :

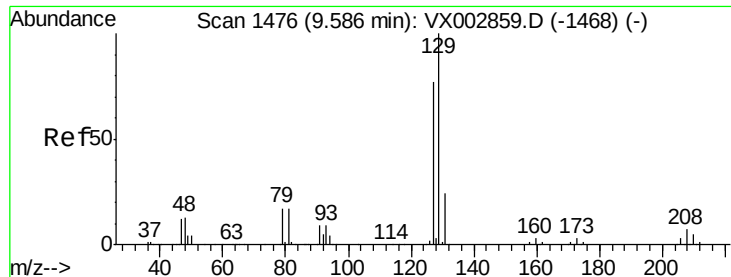
Tot Ion: 88 Resp: 197
Ion Ratio Lower Upper
88 100
43 89.8 29.8 44.6#
58 57.9 57.1 85.7



#50
Toluene-d8
Concen: 48.24 ug/l
RT: 8.72 min Scan# 1334
Delta R.T. 0.00 min
Lab File: VX003229.D
Acq: 06 Jul 2018 22:53

Tgt Ion: 98 Resp: 525198
Ion Ratio Lower Upper
98 100
100 63.8 50.9 76.3





#60

Dibromochloromethane

Concen: 0.22 ug/l

RT: 9.33 min Scan# 1434

Delta R.T. -0.26 min

Lab File: VX003229.D

Acq: 06 Jul 2018 22:53

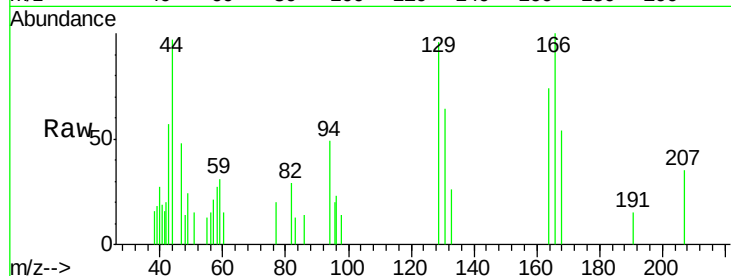
Instrument :
MSVOA_X
ClientSampled :

Tot Ion:129 Resp: 730

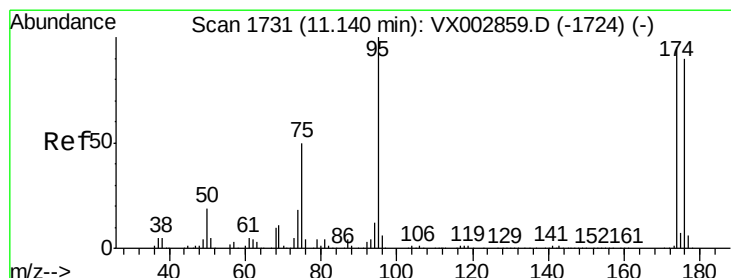
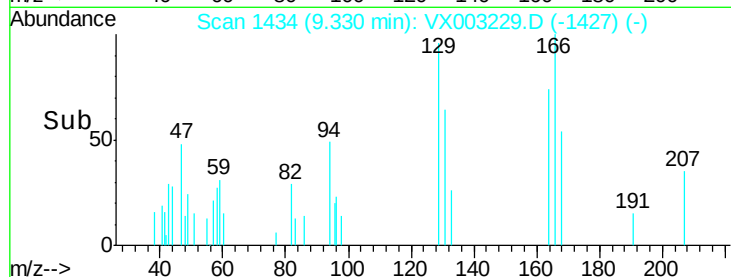
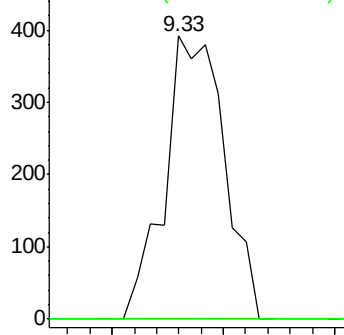
Ion Ratio Lower Upper

129 100

127 0.0 38.5 115.3#



Abundance Ion 128.80 (128.50 to 129.50): V
Ion 126.80 (126.50 to 127.50): V



#62

4-Bromofluorobenzene

Concen: 44.01 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.00 min

Lab File: VX003229.D

Acq: 06 Jul 2018 22:53

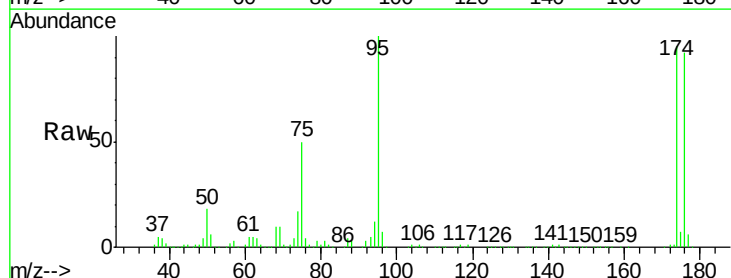
Tgt Ion: 95 Resp: 184806

Ion Ratio Lower Upper

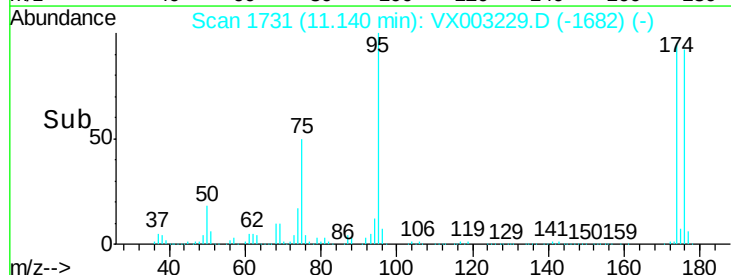
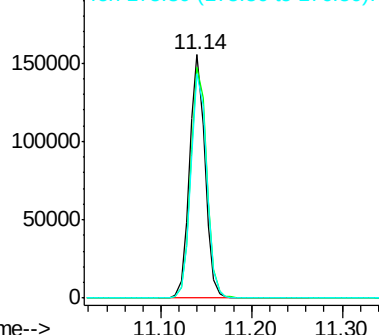
95 100

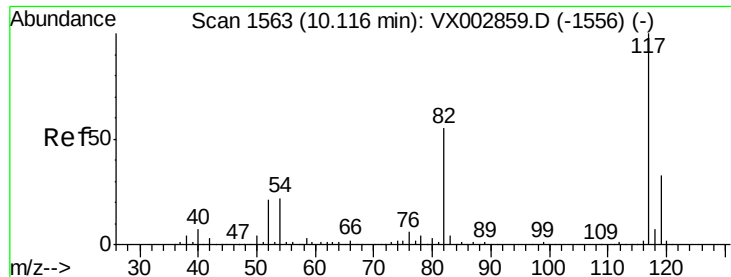
174 98.5 0.0 187.4

176 95.4 0.0 181.0



Abundance Ion 94.90 (94.60 to 95.60): VX0
Ion 173.80 (173.50 to 174.50): V
Ion 175.80 (175.50 to 176.50): V

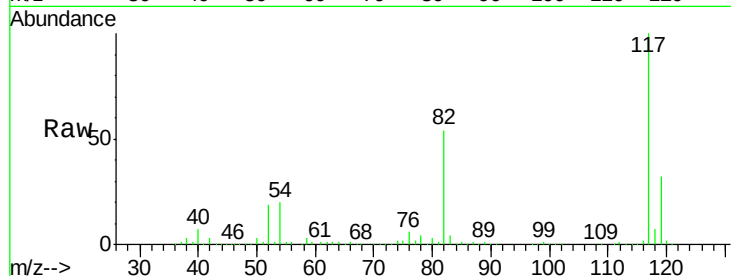




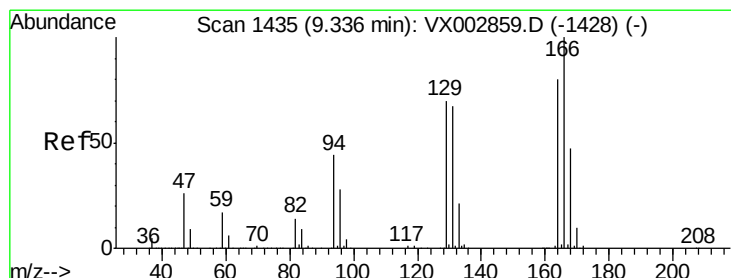
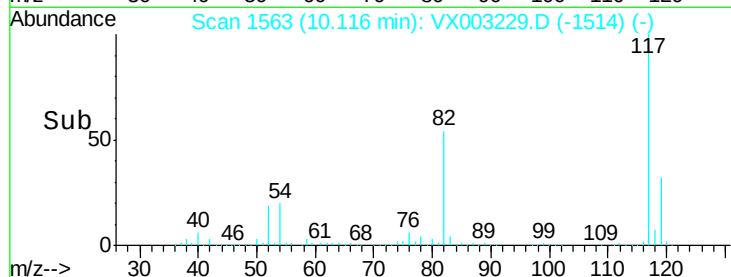
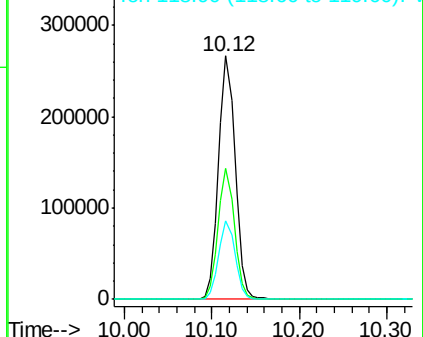
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. 0.00 min
Lab File: VX003229.D
Acq: 06 Jul 2018 22:53

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:117 Resp: 352011
Ion Ratio Lower Upper
117 100
82 53.7 45.0 67.4
119 32.0 25.8 38.6

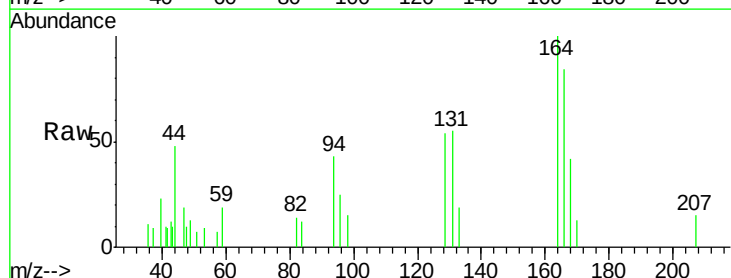


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

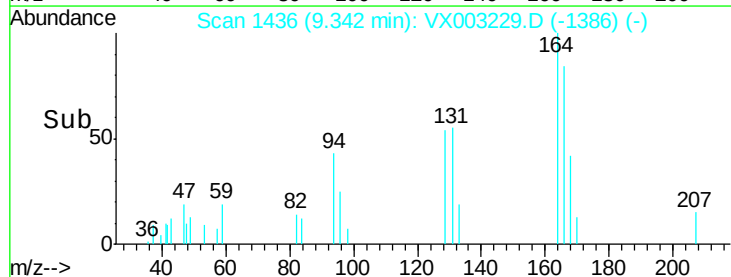
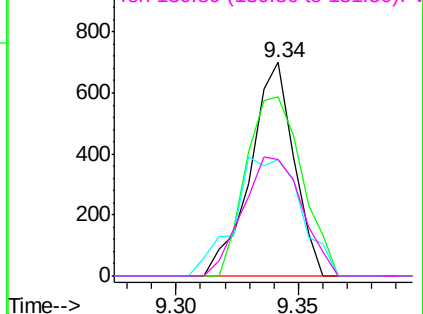


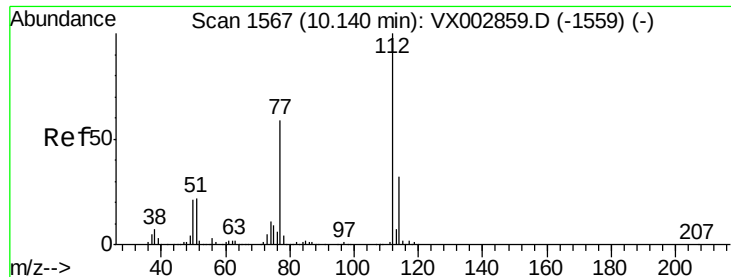
#64
Tetrachloroethene
Concen: 0.22 ug/l
RT: 9.34 min Scan# 1436
Delta R.T. 0.01 min
Lab File: VX003229.D
Acq: 06 Jul 2018 22:53

Tgt Ion:164 Resp: 864
Ion Ratio Lower Upper
164 100
166 83.7 102.9 154.3#
129 54.3 68.6 102.8#
131 54.6 66.8 100.2#



Abundance Ion 163.80 (163.50 to 164.50): V
Ion 165.80 (165.50 to 166.50): V
Ion 128.80 (128.50 to 129.50): V
Ion 130.80 (130.50 to 131.50): V





#65

Chlorobenzene

Concen: 33.40 ug/l

RT: 10.14 min Scan# 1567

Delta R.T. 0.00 min

Lab File: VX003229.D

Acq: 06 Jul 2018 22:53

Instrument :

MSVOA_X

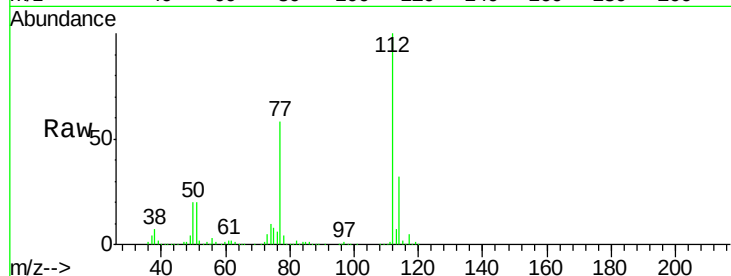
ClientSampleId :

Tot Ion:112 Resp: 298652

Ion Ratio Lower Upper

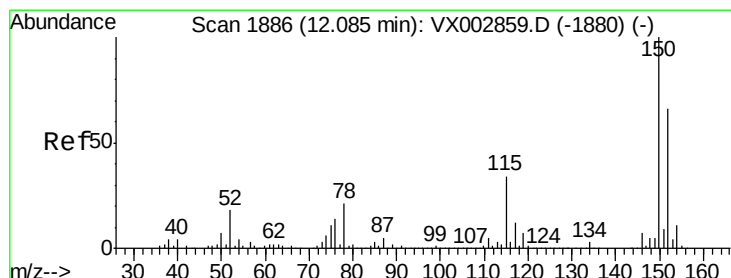
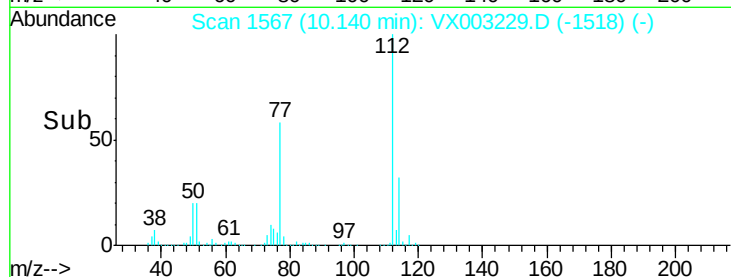
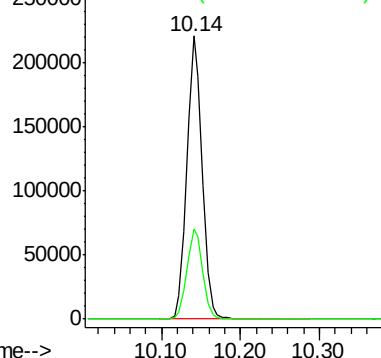
112 100

114 31.7 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: 12.08 min Scan# 1885

Delta R.T. -0.01 min

Lab File: VX003229.D

Acq: 06 Jul 2018 22:53

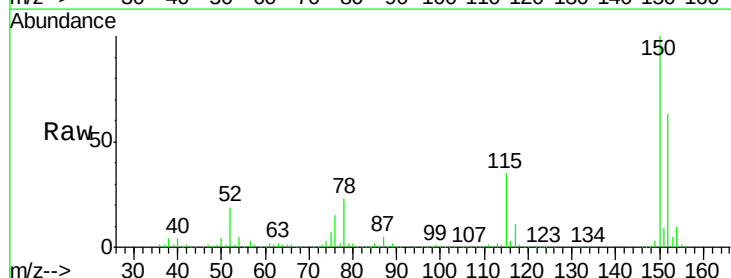
Tgt Ion:152 Resp: 198849

Ion Ratio Lower Upper

152 100

115 53.6 40.1 120.2

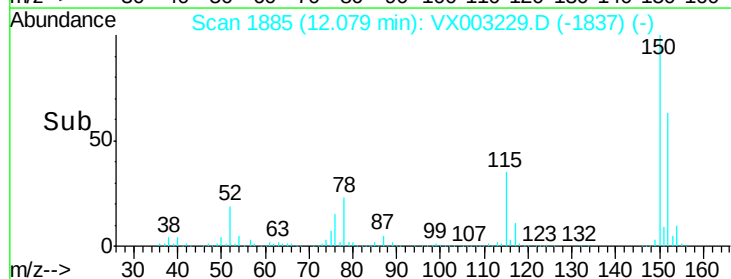
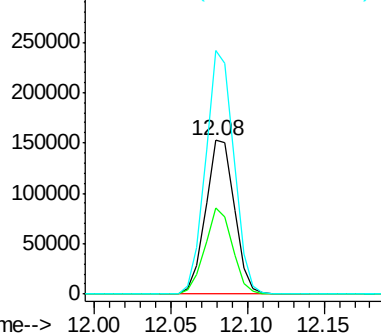
150 156.4 0.0 347.2

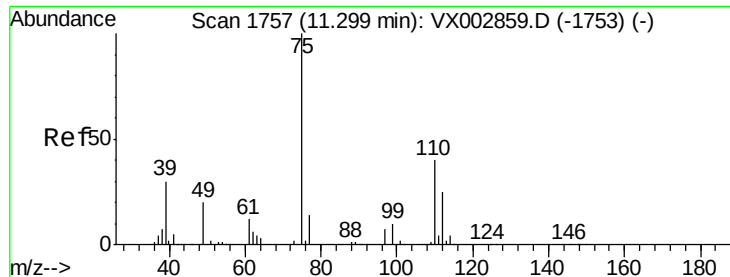


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 25.54 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX003229.D

Acq: 06 Jul 2018 22:53

Instrument :

MSVOA_X

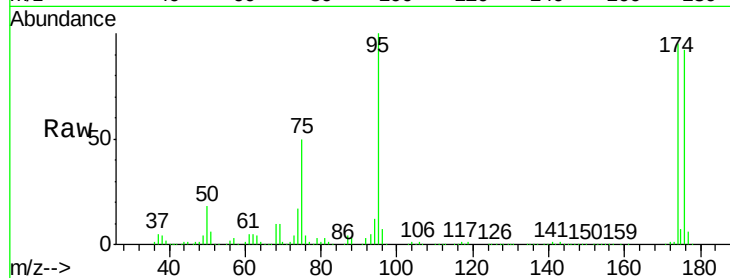
ClientSampled :

Tot Ion: 75 Resp: 92010

Ion Ratio Lower Upper

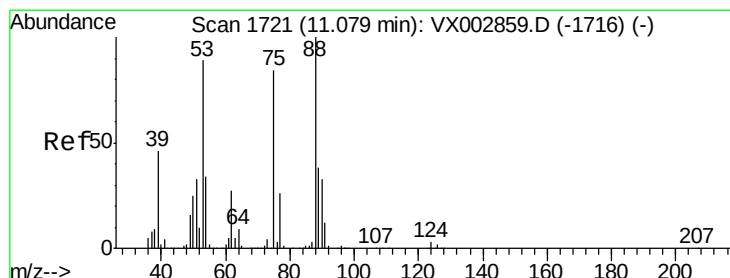
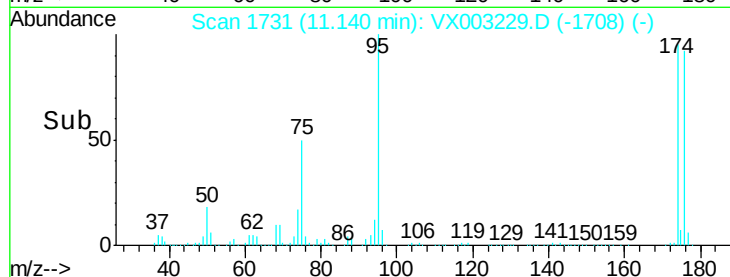
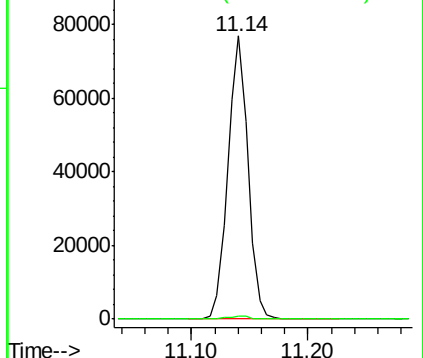
75 100

77 1.3 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: 72.50 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX003229.D

Acq: 06 Jul 2018 22:53

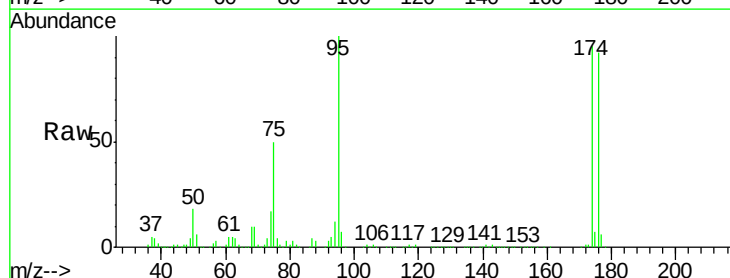
Tgt Ion: 75 Resp: 92010

Ion Ratio Lower Upper

75 100

53 0.3 86.8 130.2#

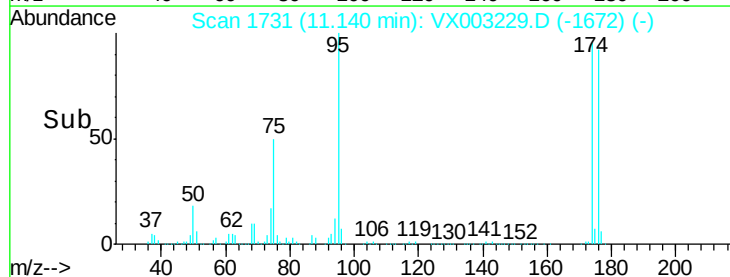
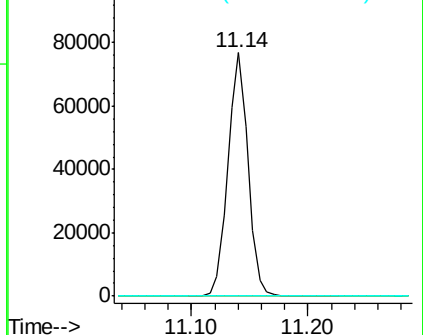
89 0.0 38.2 57.2#

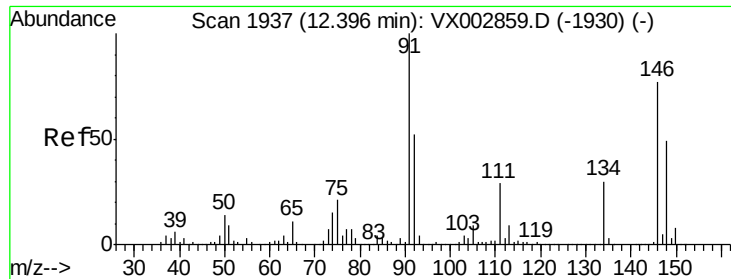


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0

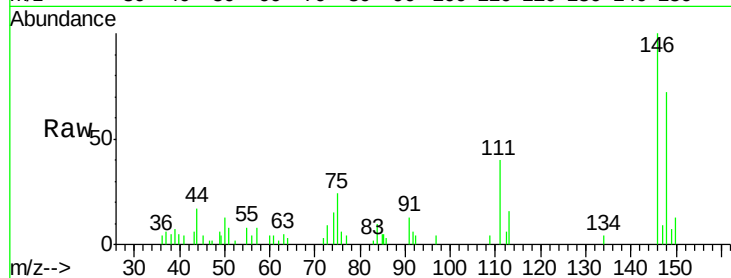




#91
 1,2-Dichlorobenzene
 Concen: 0.48 ug/l
 RT: 12.40 min Scan# 1937
 Delta R.T. 0.00 min
 Lab File: VX003229.D
 Acq: 06 Jul 2018 22:53

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion:146 Resp: 3352
 Ion Ratio Lower Upper
 146 100
 111 36.5 19.4 58.1
 148 66.5 31.7 95.1



Abundance Ion 145.90 (145.60 to 146.60): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V

