

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX062818\
 Data File : VX002988.D
 Acq On : 28 Jun 2018 16:34
 Operator : JC/MD
 Sample : J3711-03
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 QNWP8-EQUIP-BLANK

Quant Time: Jun 29 06:09:59 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	269808	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	374648	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	349764	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	194852	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.07	65	180538	48.41	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.82%	
35) Dibromofluoromethane	5.51	113	145395	49.01	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.02%	
50) Toluene-d8	8.72	98	527446	48.68	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.36%	
62) 4-Bromofluorobenzene	11.14	95	184889	44.25	ug/l	0.00
Spiked Amount	50.000		Recovery	=	88.50%	

Target Compounds

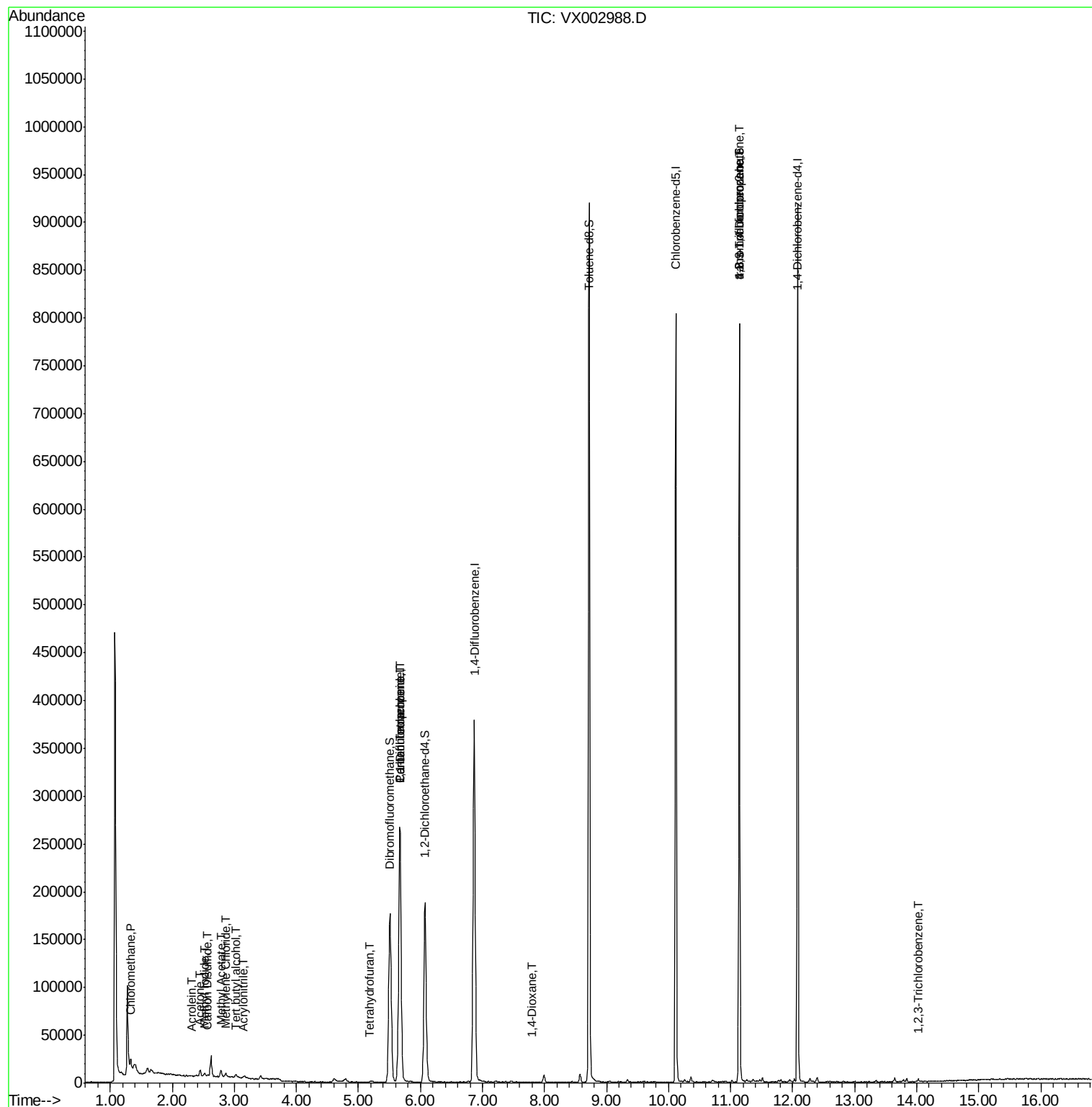
						Qvalue
2) Dichlorodifluoromethane	1.20	85	227	Below Cal		83
3) Chloromethane	1.32	50	6070	1.26 ug/l		93
5) Bromomethane	1.65	94	2470	Below Cal	#	79
6) Chloroethane	1.71	64	360	Below Cal	#	68
10) Methyl Iodide	2.52	142	4083	7.41 ug/l		97
11) Tert butyl alcohol	3.02	59	2348	3.16 ug/l	#	83
13) Acrolein	2.30	56	253	4.83 ug/l	#	44
15) Acrylonitrile	3.15	53	537	0.34 ug/l	#	67
16) Acetone	2.45	43	7624	4.94 ug/l		99
17) Carbon Disulfide	2.57	76	2454	0.35 ug/l	#	73
18) Methyl Acetate	2.78	43	8014	1.86 ug/l		91
20) Methylene Chloride	2.86	84	1941	0.65 ug/l	#	87
29) Tetrahydrofuran	5.18	42	628	0.43 ug/l	#	67
36) 1,1-Dichloropropene	5.67	75	18400	4.48 ug/l	#	50
38) Carbon Tetrachloride	5.67	117	24124	5.35 ug/l	#	16
49) 1,4-Dioxane	7.79	88	44	0.59 ug/l	#	1
76) 1,2,3-Trichloropropane	11.14	75	95623	27.09 ug/l	#	33
81) trans-1,4-Dichloro-2-buten	11.14	75	95623	76.68 ug/l	#	7
96) 1,2,3-Trichlorobenzene	14.02	180	1020	0.20 ug/l		94

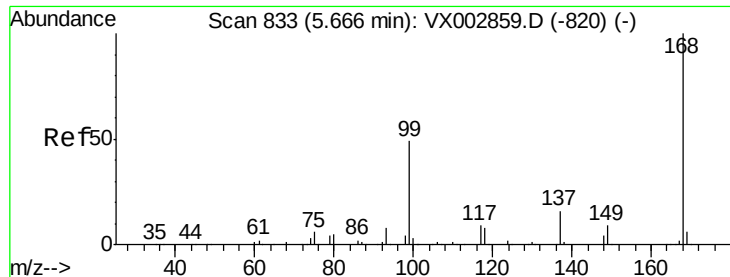
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 834

Delta R.T. 0.01 min

Lab File: VX002988.D

Acq: 28 Jun 2018 16:34

Instrument :

MSVOA_X

ClientSampleId :

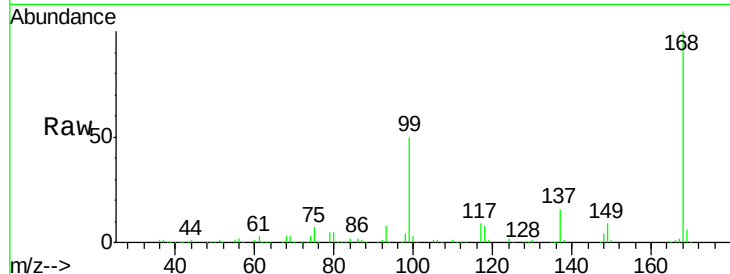
QNWP8-EQUIP-BLANK

Tot Ion:168 Resp: 269808

Ion Ratio Lower Upper

168 100

99 49.9 39.3 58.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

100000

80000

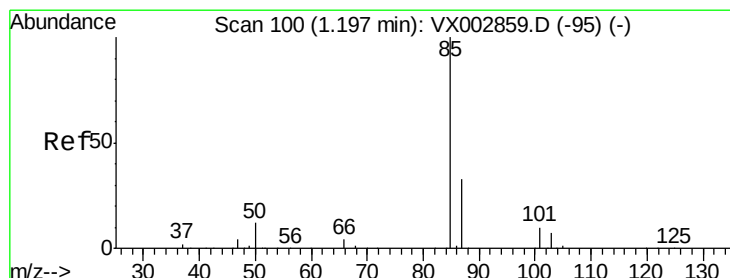
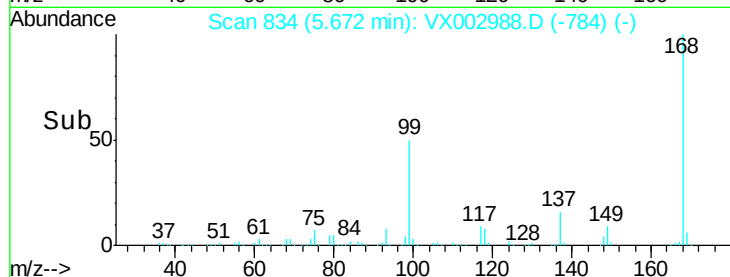
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.20 min Scan# 100

Delta R.T. 0.00 min

Lab File: VX002988.D

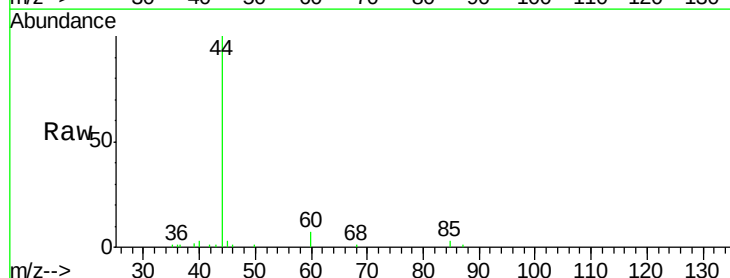
Acq: 28 Jun 2018 16:34

Tgt Ion: 85 Resp: 227

Ion Ratio Lower Upper

85 100

87 41.3 16.0 47.9



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.20

300

250

200

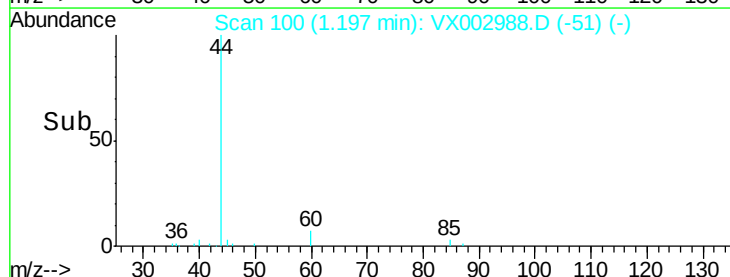
150

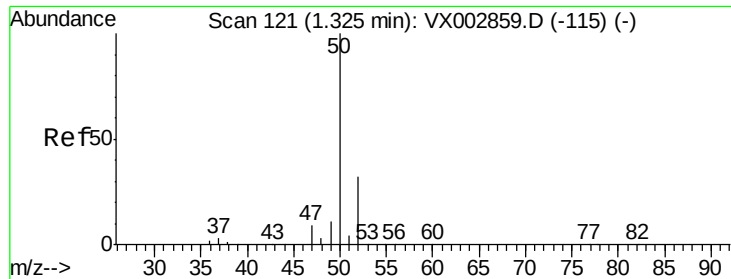
100

50

0

Time--> 1.16 1.18 1.20 1.22





#3

Chloromethane

Concen: 1.26 ua/l

RT: 1.32 min Scan# 121

Delta R.T. 0.00 min

Lab File: VX002988.D

Acq: 28 Jun 2018 16:34

Instrument :

MSVOA_X

ClientSampleId :

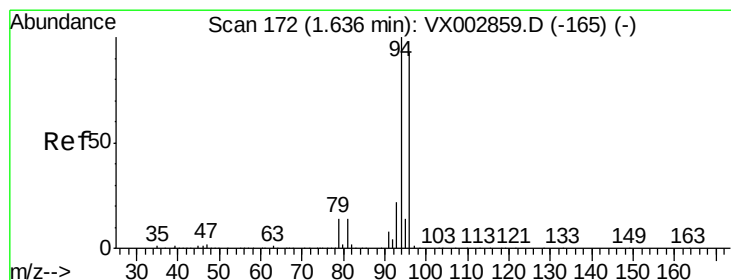
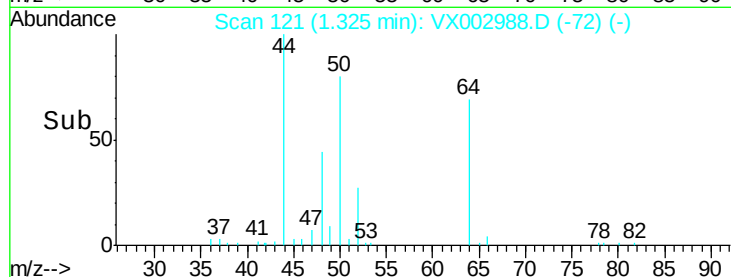
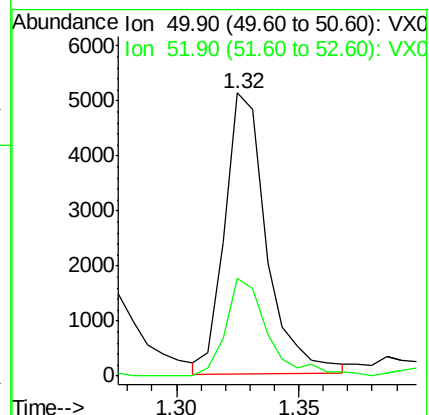
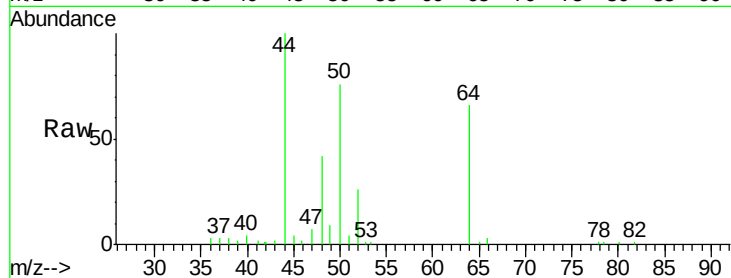
QNWP8-EQUIP-BLANK

Tot Ion: 50 Resp: 6070

Ion Ratio Lower Upper

50 100

52 35.8 25.7 38.5



#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 174

Delta R.T. 0.01 min

Lab File: VX002988.D

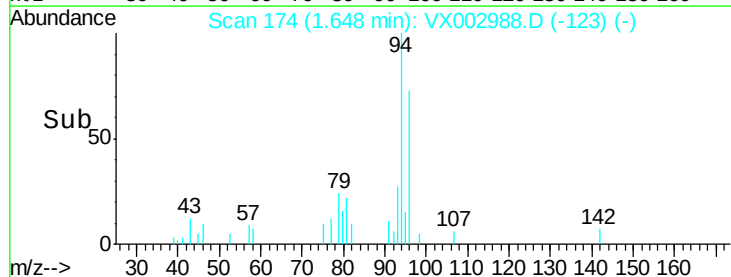
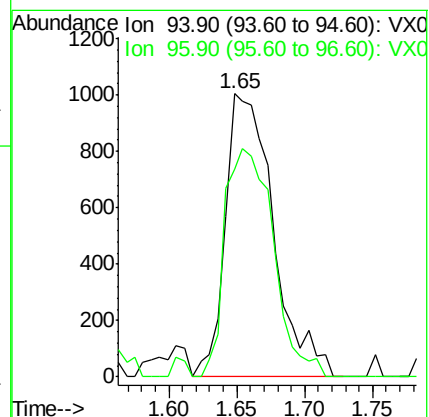
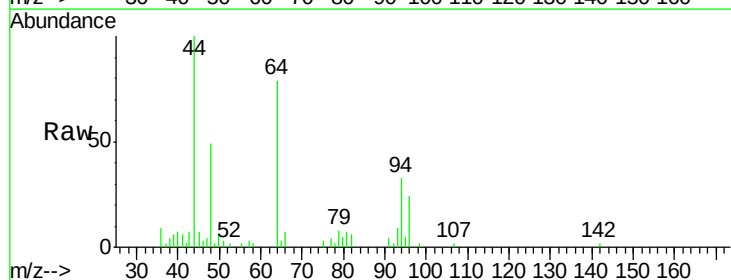
Acq: 28 Jun 2018 16:34

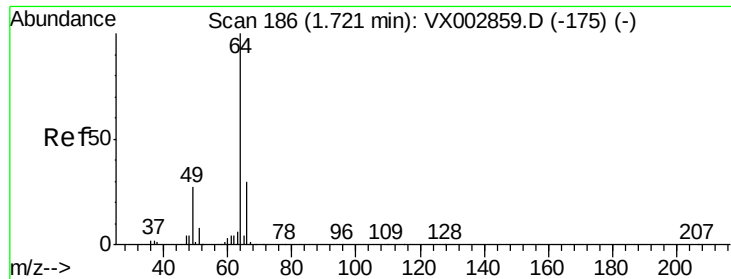
Tgt Ion: 94 Resp: 2470

Ion Ratio Lower Upper

94 100

96 73.3 74.9 112.3#





#6

Chloroethane

Concen: Below Cal

RT: 1.71 min Scan# 184

Delta R.T. -0.01 min

Lab File: VX002988.D

Acq: 28 Jun 2018 16:34

Instrument :

MSVOA_X

ClientSampleId :

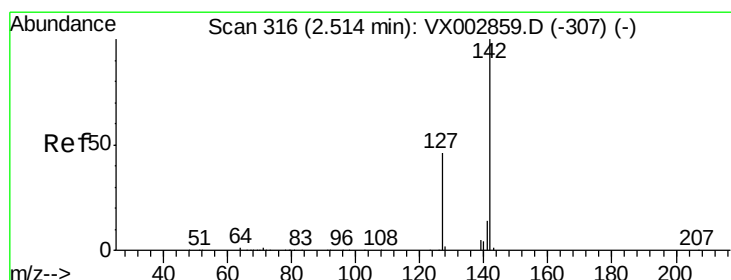
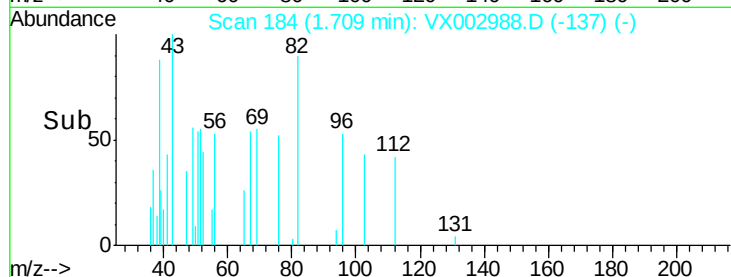
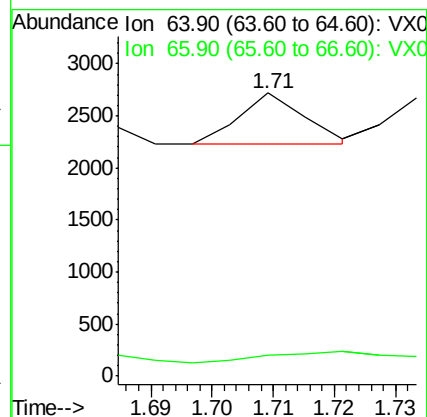
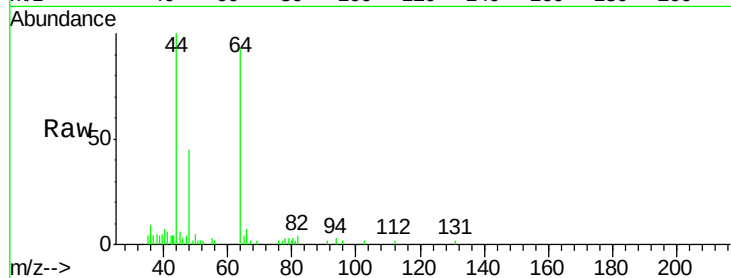
QNWP8-EQUIP-BLANK

Tot Ion: 64 Resp: 360

Ion Ratio Lower Upper

64 100

66 14.0 25.5 38.3#



#10

Methyl Iodide

Concen: 7.41 ug/l

RT: 2.52 min Scan# 317

Delta R.T. 0.01 min

Lab File: VX002988.D

Acq: 28 Jun 2018 16:34

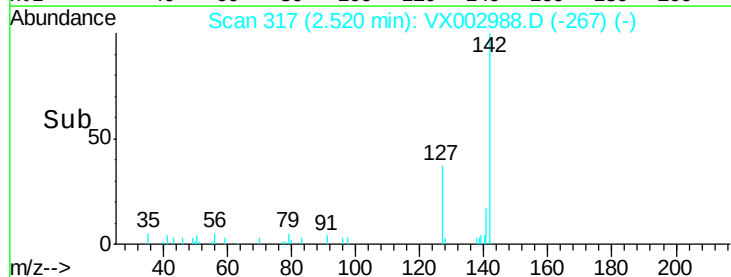
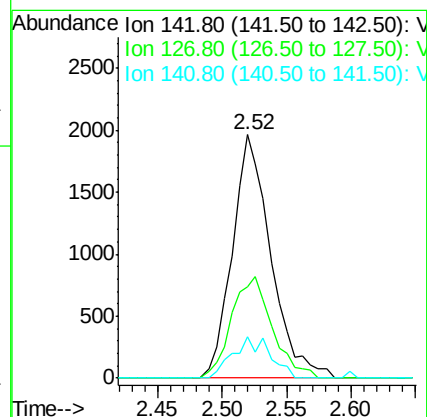
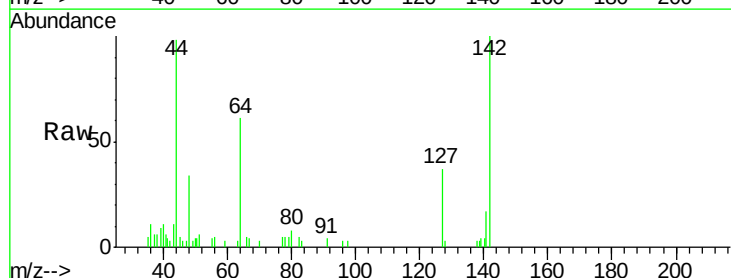
Tgt Ion: 142 Resp: 4083

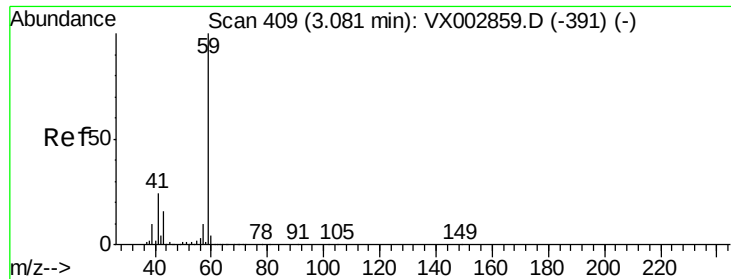
Ion Ratio Lower Upper

142 100

127 44.1 36.6 55.0

141 16.3 11.3 16.9



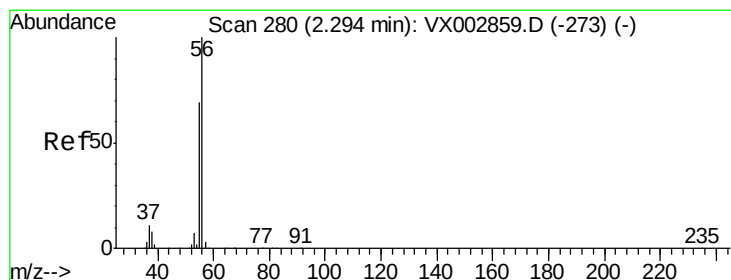
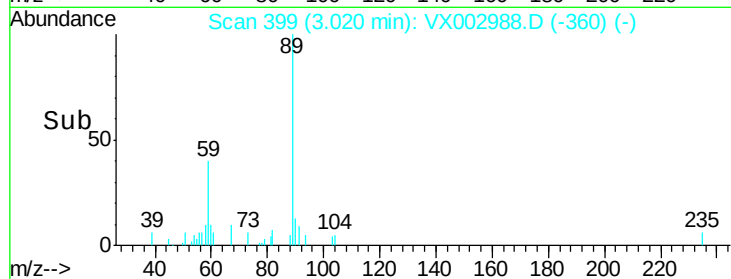
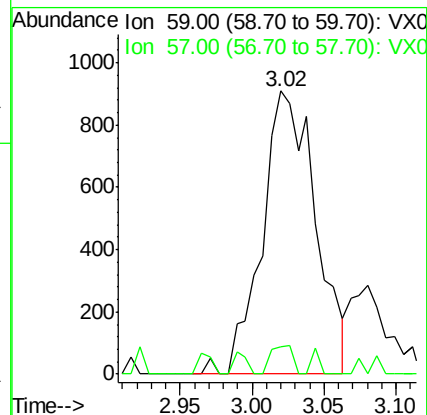
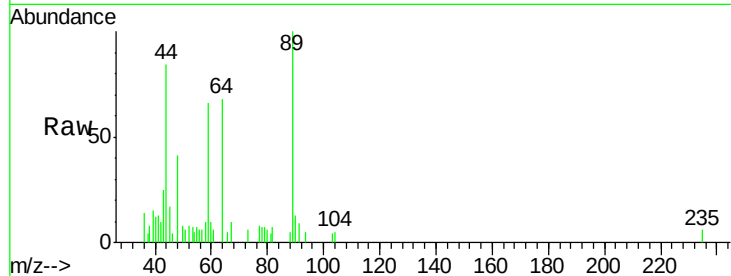


#11

Tert butyl alcohol
 Concen: 3.16 ug/l
 RT: 3.02 min Scan# 399
 Delta R.T. -0.06 min
 Lab File: VX002988.D
 Acq: 28 Jun 2018 16:34

Instrument :
 MSVOA_X
 ClientSampleId :
 QNWP8-EQUIP-BLANK

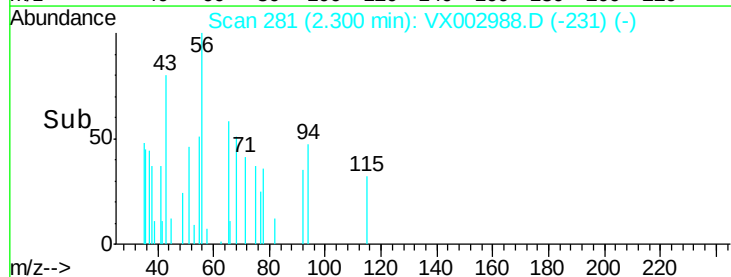
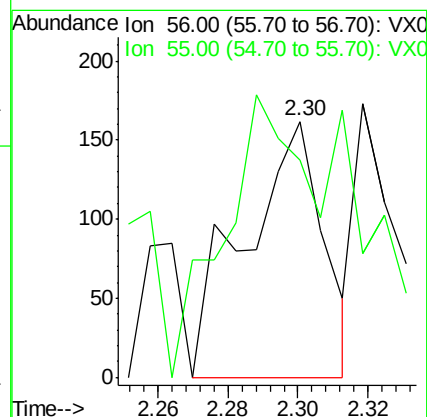
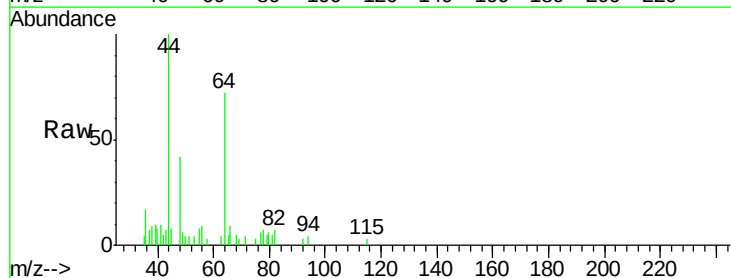
Tot Ion: 59 Resp: 2348
 Ion Ratio Lower Upper
 59 100
 57 4.0 8.2 12.2#

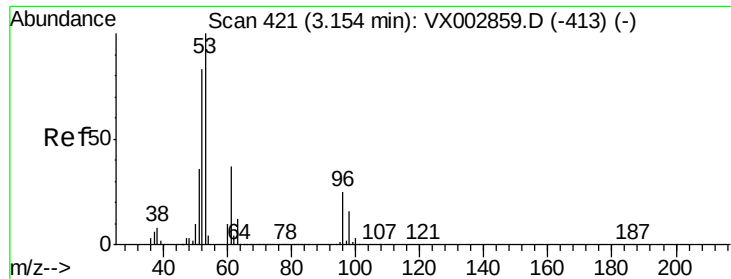


#13

Acrolein
 Concen: 4.83 ug/l
 RT: 2.30 min Scan# 281
 Delta R.T. 0.01 min
 Lab File: VX002988.D
 Acq: 28 Jun 2018 16:34

Tgt Ion: 56 Resp: 253
 Ion Ratio Lower Upper
 56 100
 55 117.8 57.0 85.4#





#15

Acrylonitrile

Concen: 0.34 ug/l

RT: 3.15 min Scan# 420

Delta R.T. -0.01 min

Lab File: VX002988.D

Acq: 28 Jun 2018 16:34

Instrument :

MSVOA_X

ClientSampleId :

QNWP8-EQUIP-BLANK

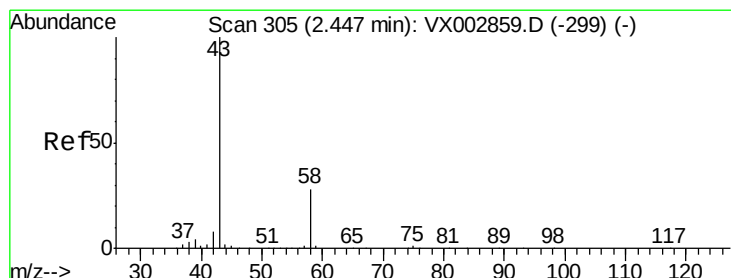
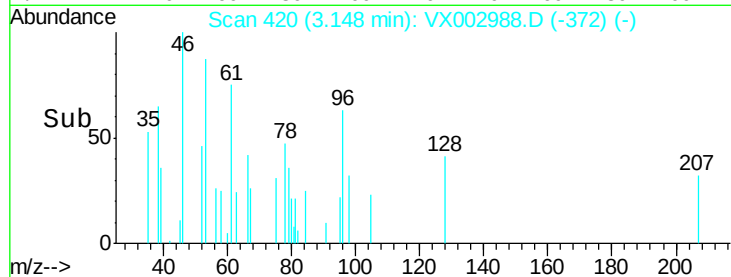
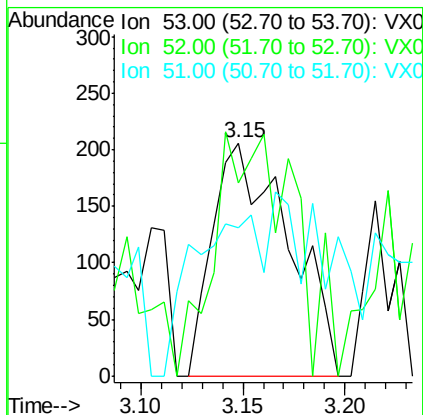
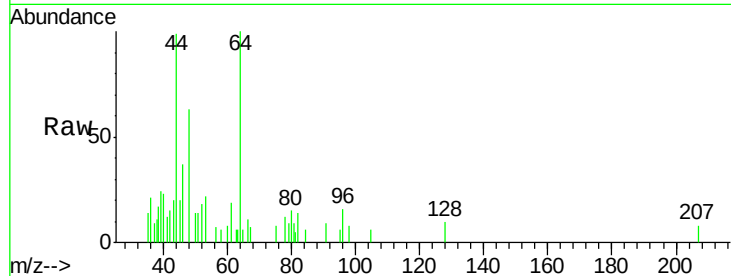
Tot Ion: 53 Resp: 537

Ion Ratio Lower Upper

53 100

52 109.7 66.7 100.1#

51 62.0 29.9 44.9#



#16

Acetone

Concen: 4.94 ug/l

RT: 2.45 min Scan# 306

Delta R.T. 0.01 min

Lab File: VX002988.D

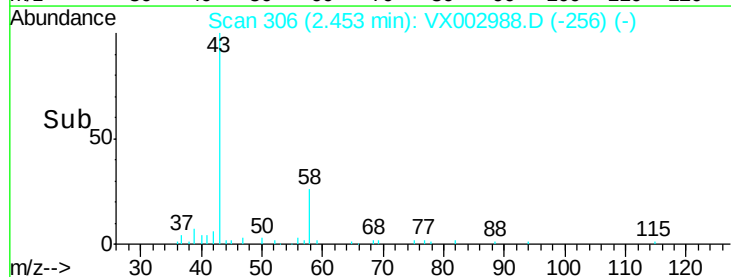
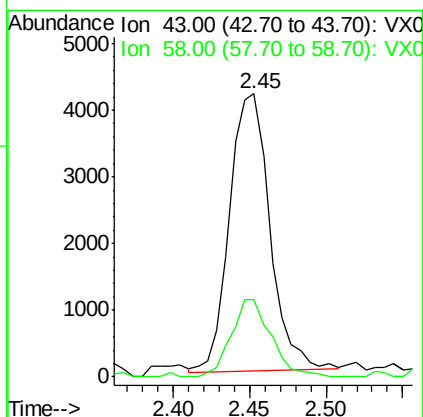
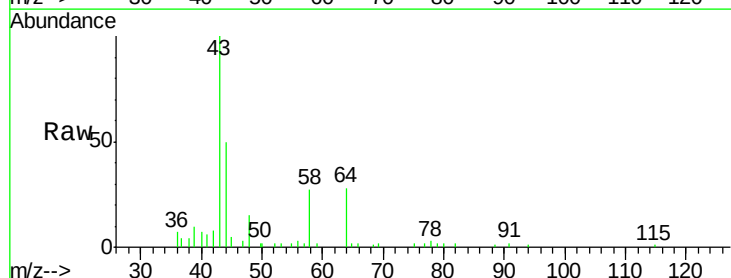
Acq: 28 Jun 2018 16:34

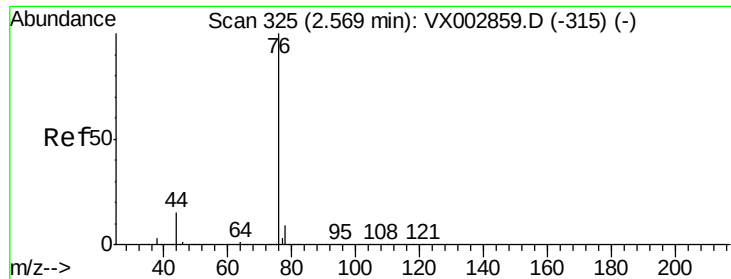
Tgt Ion: 43 Resp: 7624

Ion Ratio Lower Upper

43 100

58 28.2 22.1 33.1

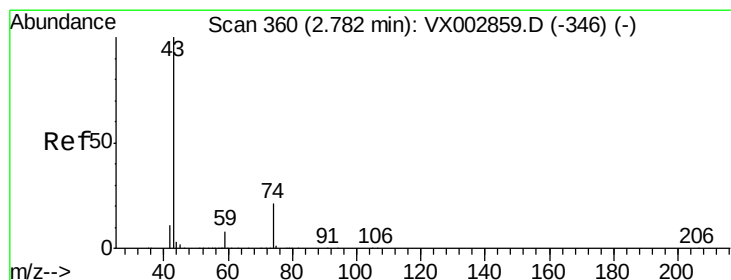
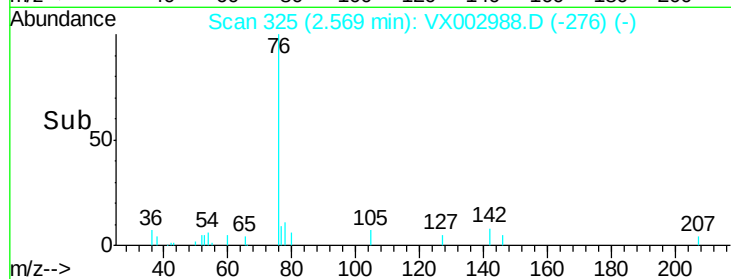
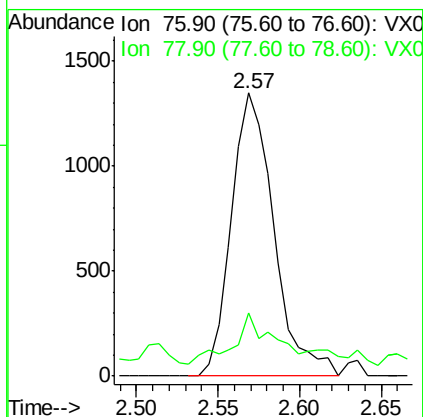
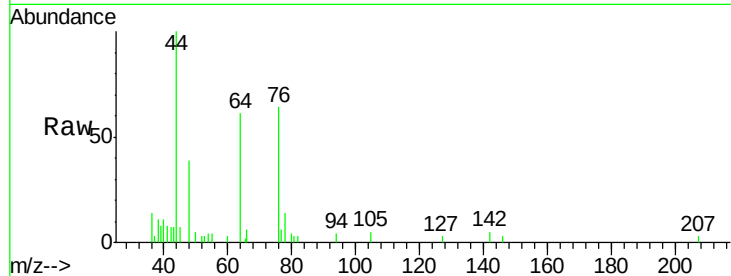




#17
Carbon Disulfide
Concen: 0.35 ug/l
RT: 2.57 min Scan# 325
Delta R.T. 0.00 min
Lab File: VX002988.D
Acq: 28 Jun 2018 16:34

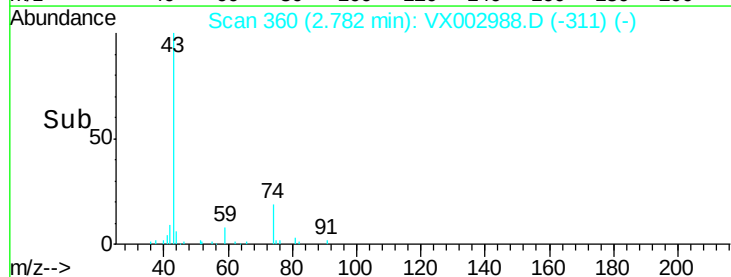
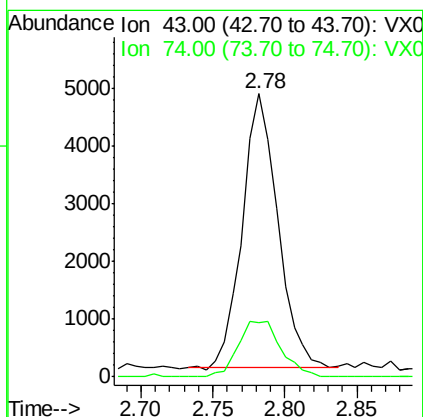
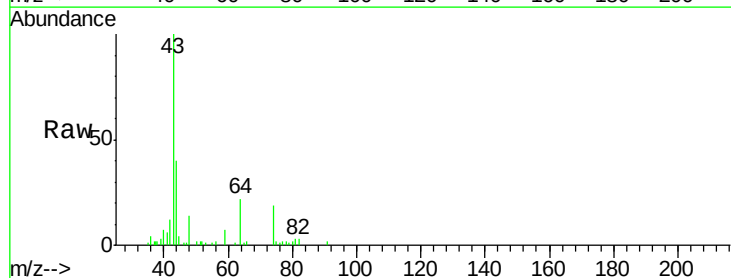
Instrument :
MSVOA_X
ClientSampleId :
QNWP8-EQUIP-BLANK

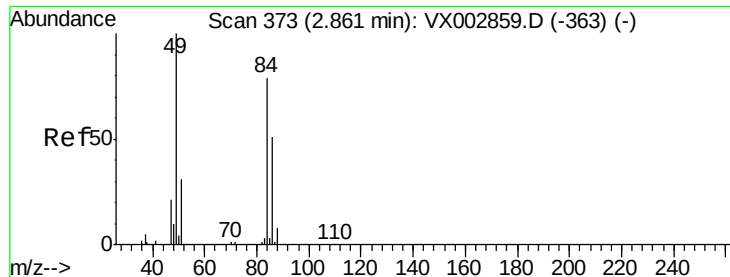
Tot Ion: 76 Resp: 2454
Ion Ratio Lower Upper
76 100
78 18.1 6.9 10.3#



#18
Methyl Acetate
Concen: 1.86 ug/l
RT: 2.78 min Scan# 360
Delta R.T. 0.00 min
Lab File: VX002988.D
Acq: 28 Jun 2018 16:34

Tgt Ion: 43 Resp: 8014
Ion Ratio Lower Upper
43 100
74 24.9 16.7 25.1

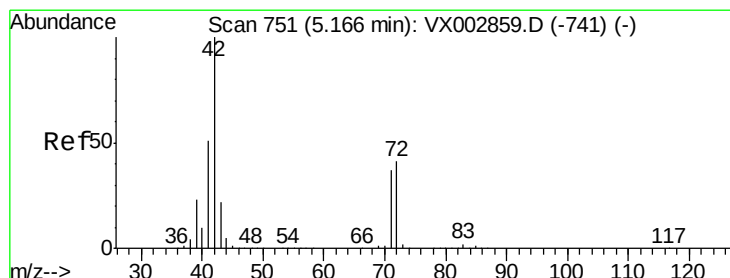
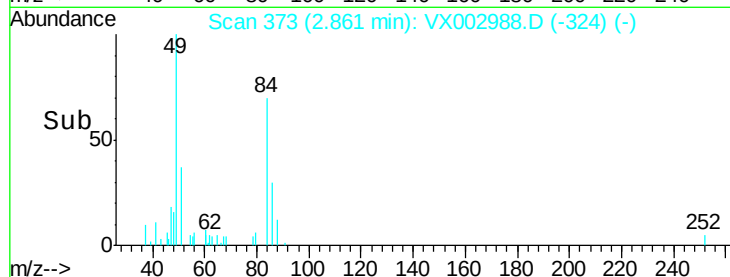
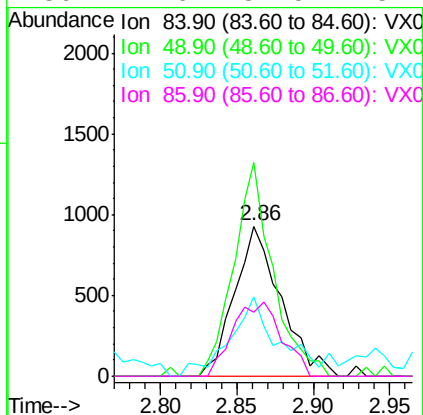
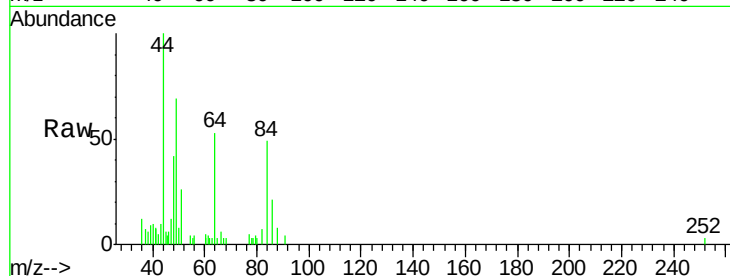




#20
Methvlene Chloride
Concen: 0.65 ug/l
RT: 2.86 min Scan# 373
Delta R.T. 0.00 min
Lab File: VX002988.D
Acq: 28 Jun 2018 16:34

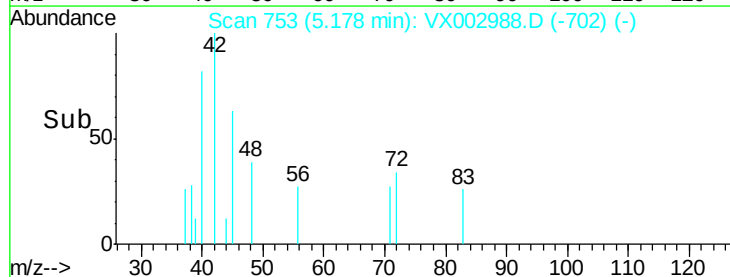
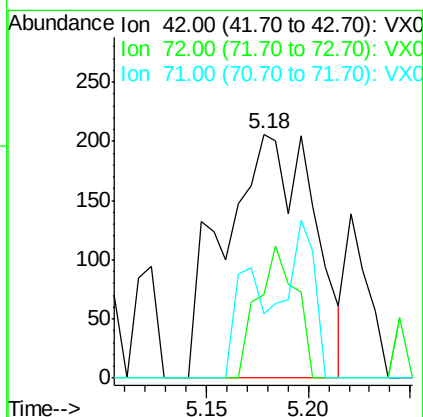
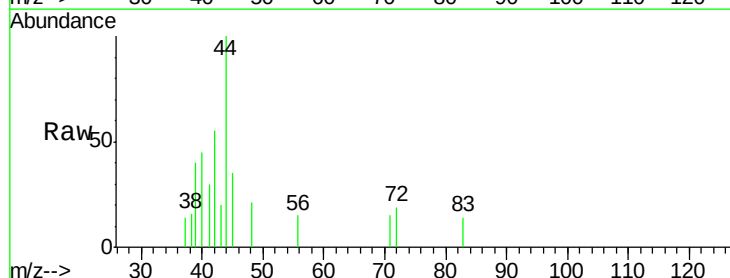
Instrument :
MSVOA_X
ClientSampleId :
QNWP8-EQUIP-BLANK

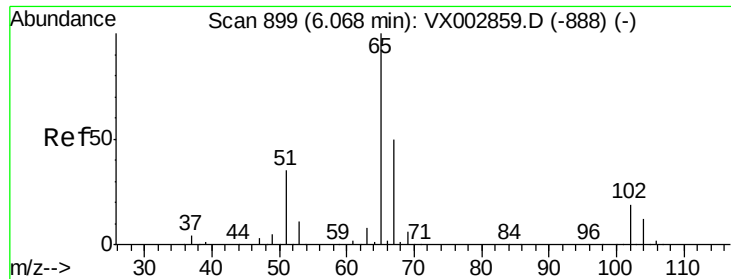
Tot Ion: 84 Resp: 1941
Ion Ratio Lower Upper
84 100
49 142.6 107.8 161.6
51 46.2 32.8 49.2
86 42.6 52.5 78.7#



#29
Tetrahydrofuran
Concen: 0.43 ug/l
RT: 5.18 min Scan# 753
Delta R.T. 0.01 min
Lab File: VX002988.D
Acq: 28 Jun 2018 16:34

Tgt Ion: 42 Resp: 628
Ion Ratio Lower Upper
42 100
72 23.2 32.0 48.0#
71 13.9 30.1 45.1#

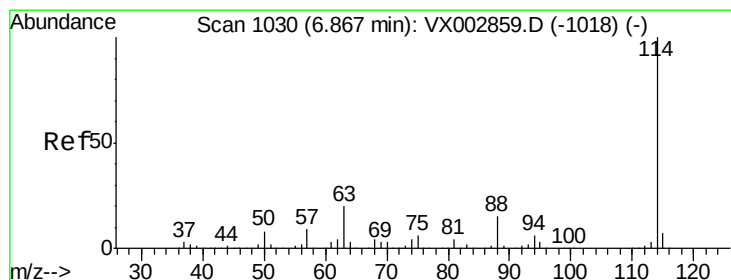
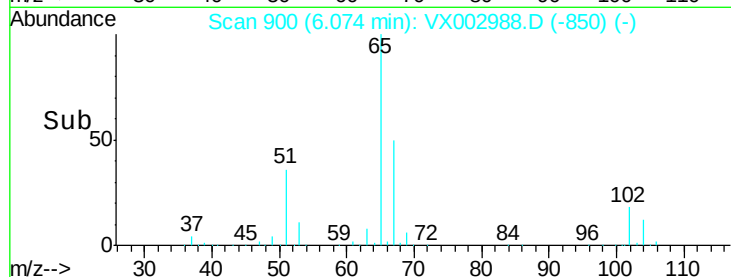
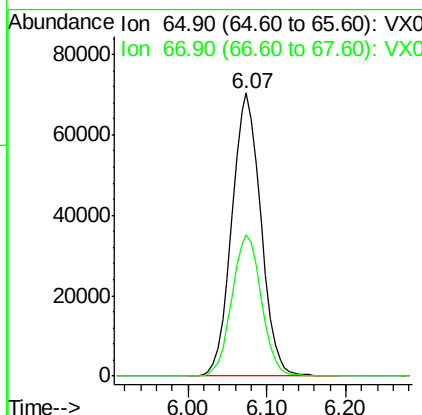
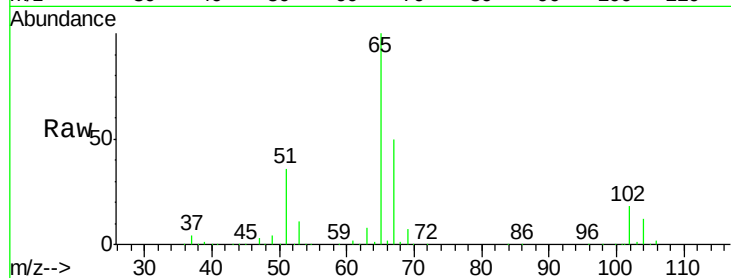




#33
 1,2-Dichloroethane-d4
 Concen: 48.41 ug/l
 RT: 6.07 min Scan# 900
 Delta R.T. 0.01 min
 Lab File: VX002988.D
 Acq: 28 Jun 2018 16:34

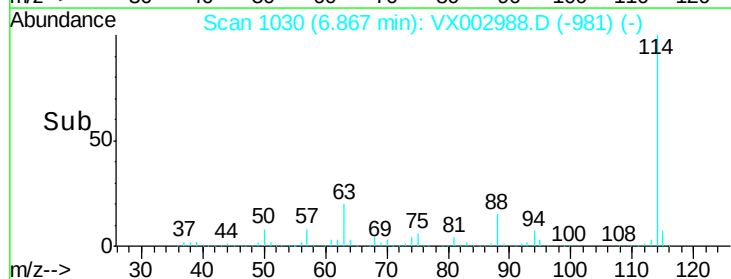
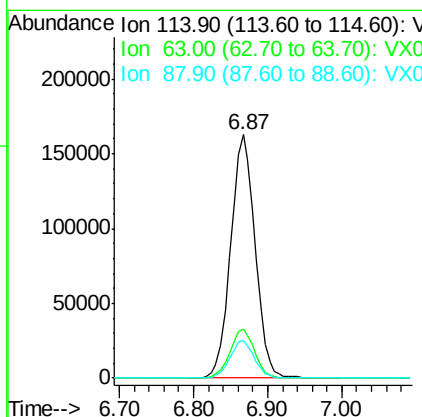
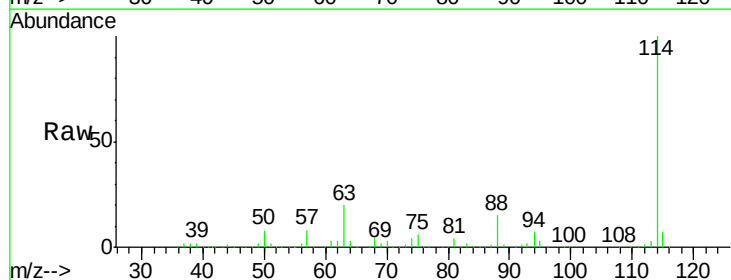
Instrument :
 MSVOA_X
 ClientSampleId :
 QNWP8-EQUIP-BLANK

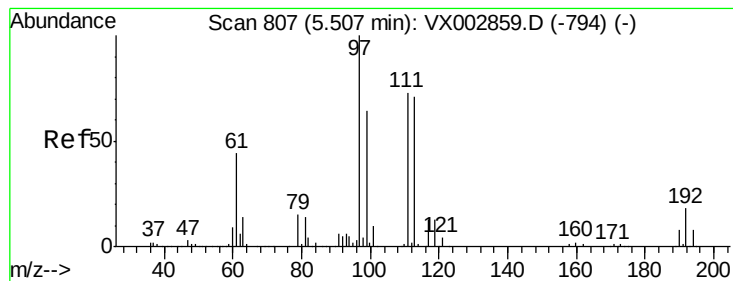
Tot Ion: 65 Resp: 180538
 Ion Ratio Lower Upper
 65 100
 67 50.6 0.0 102.6



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.87 min Scan# 1030
 Delta R.T. 0.00 min
 Lab File: VX002988.D
 Acq: 28 Jun 2018 16:34

Tgt Ion: 114 Resp: 374648
 Ion Ratio Lower Upper
 114 100
 63 20.0 0.0 41.4
 88 15.2 0.0 30.0





#35

Dibromofluoromethane

Concen: 49.01 ug/l

RT: 5.51 min Scan# 807

Delta R.T. 0.00 min

Lab File: VX002988.D

Acq: 28 Jun 2018 16:34

Instrument :

MSVOA_X

ClientSampleId :

QNWP8-EQUIP-BLANK

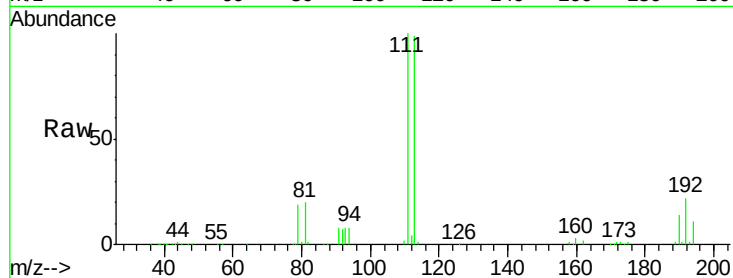
Tot Ion:113 Resp: 145395

Ion Ratio Lower Upper

113 100

111 102.4 81.4 122.0

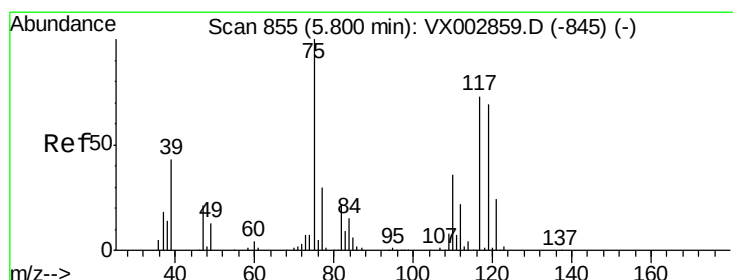
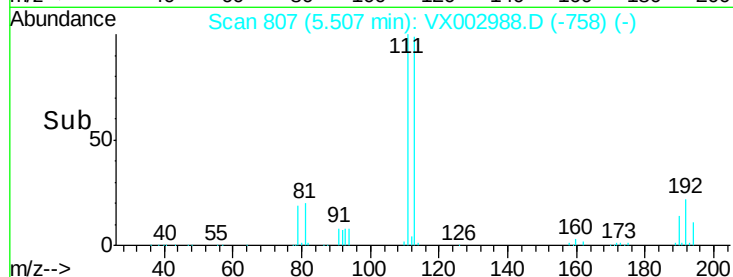
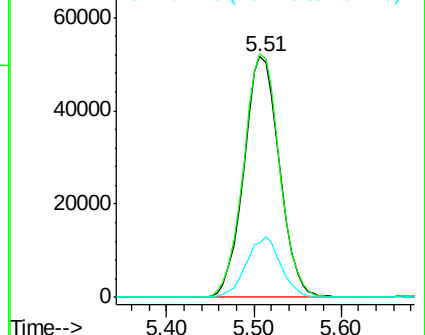
192 24.3 19.1 28.7



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: 4.48 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.13 min

Lab File: VX002988.D

Acq: 28 Jun 2018 16:34

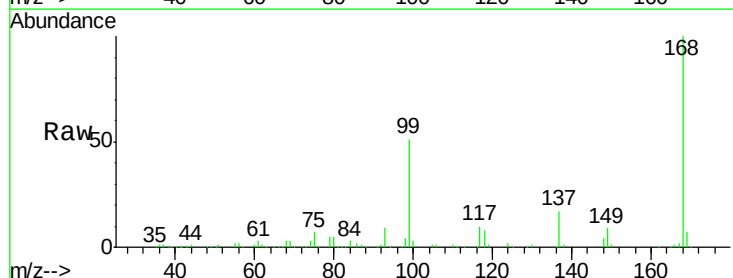
Tgt Ion: 75 Resp: 18400

Ion Ratio Lower Upper

75 100

110 9.6 18.1 54.4#

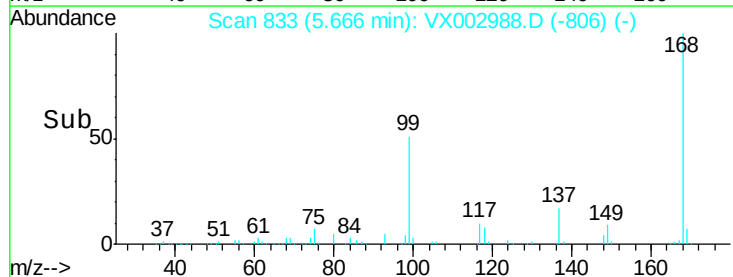
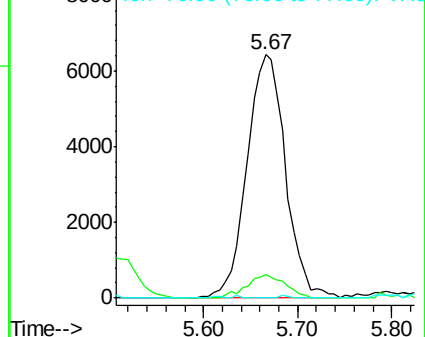
77 0.3 24.3 36.5#

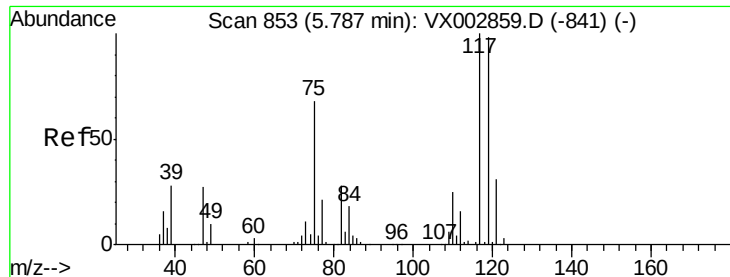


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 5.35 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.12 min

Lab File: VX002988.D

Acq: 28 Jun 2018 16:34

Instrument :

MSVOA_X

ClientSampleId :

QNWP8-EQUIP-BLANK

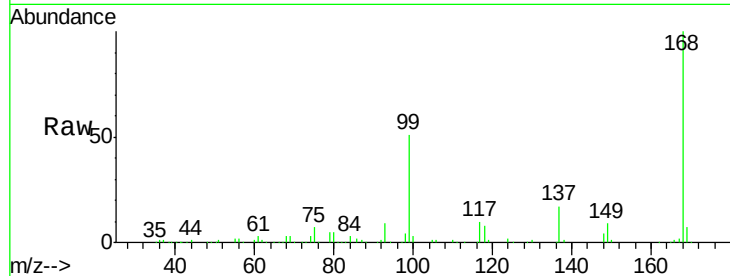
Tot Ion:117 Resp: 24124

Ion Ratio Lower Upper

117 100

119 5.5 77.4 116.0#

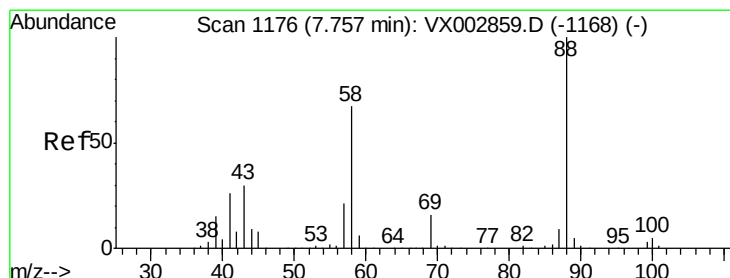
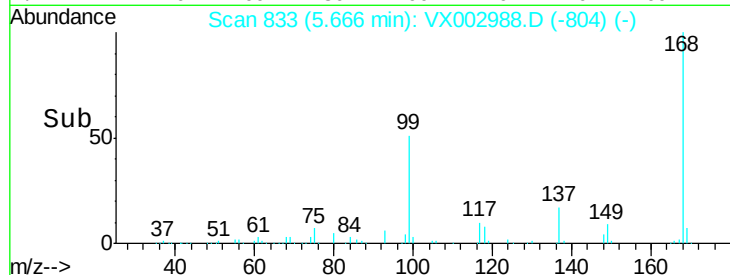
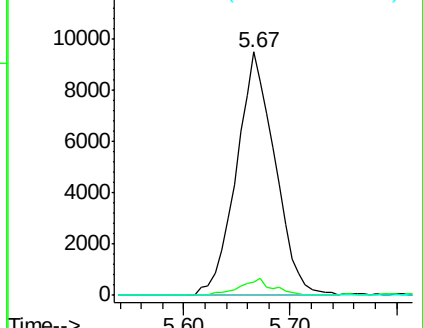
121 0.0 24.4 36.6#



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: 0.59 ug/l

RT: 7.79 min Scan# 1182

Delta R.T. 0.04 min

Lab File: VX002988.D

Acq: 28 Jun 2018 16:34

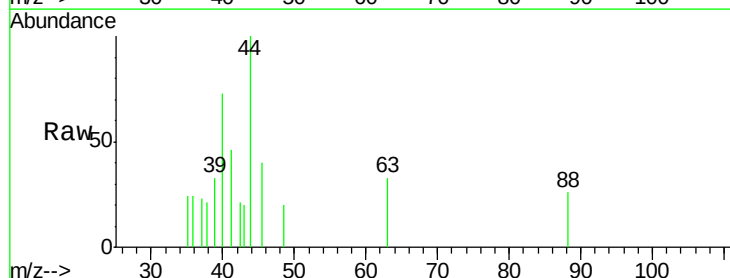
Tgt Ion: 88 Resp: 44

Ion Ratio Lower Upper

88 100

43 250.0 29.8 44.6#

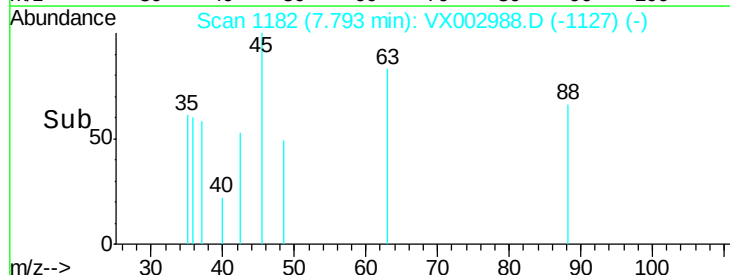
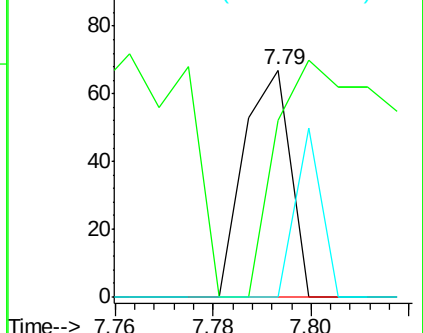
58 40.9 57.1 85.7#

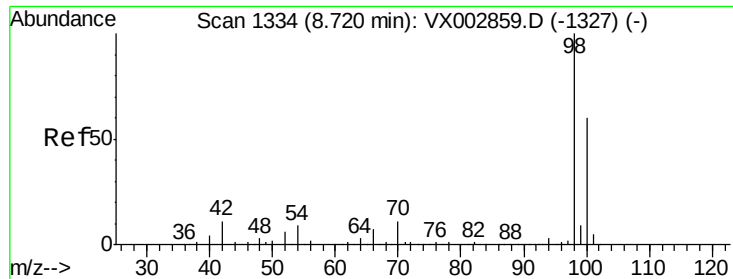


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

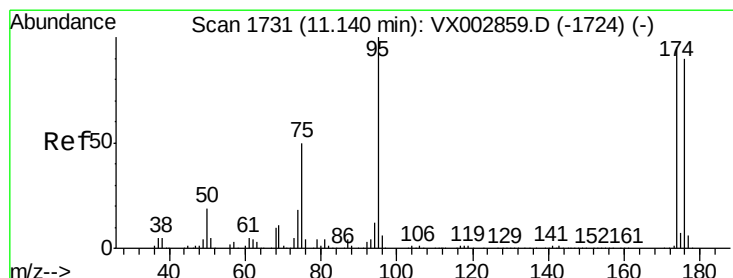
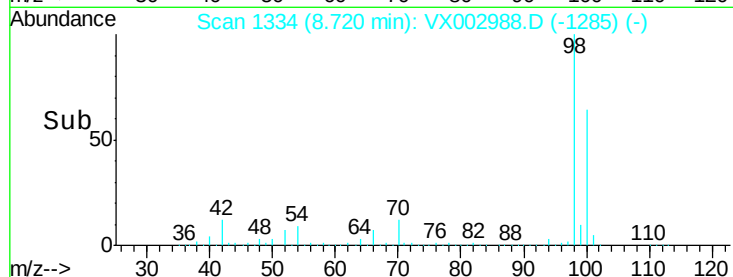
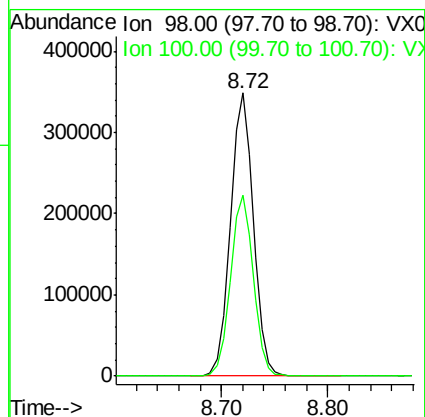
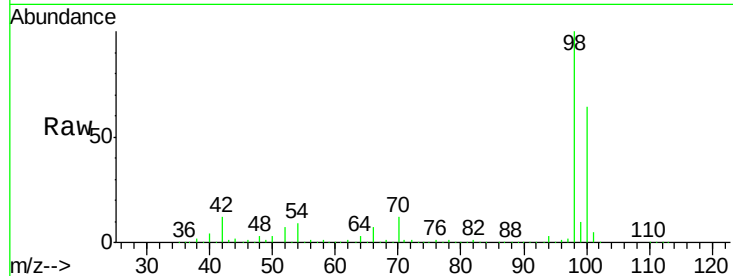




#50
Toluene-d8
Concen: 48.68 ug/l
RT: 8.72 min Scan# 1334
Delta R.T. 0.00 min
Lab File: VX002988.D
Acq: 28 Jun 2018 16:34

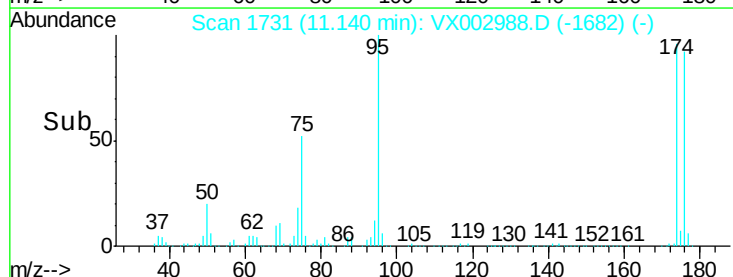
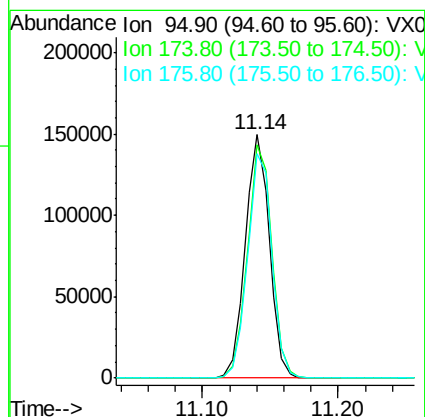
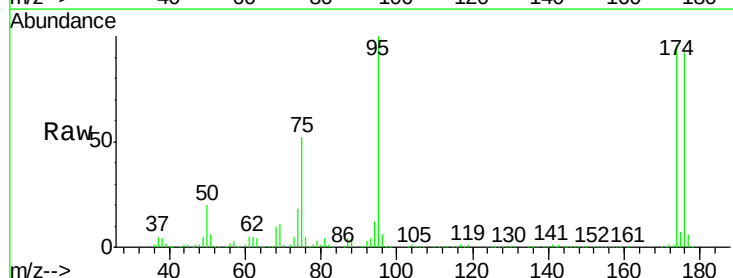
Instrument :
MSVOA_X
ClientSampleId :
QNWP8-EQUIP-BLANK

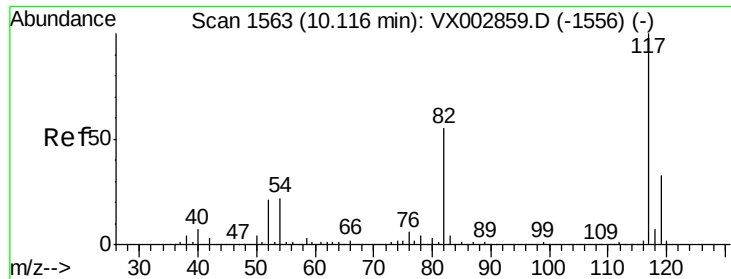
Tot Ion: 98 Resp: 527446
Ion Ratio Lower Upper
98 100
100 63.8 50.9 76.3



#62
4-Bromofluorobenzene
Concen: 44.25 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. 0.00 min
Lab File: VX002988.D
Acq: 28 Jun 2018 16:34

Tgt Ion: 95 Resp: 184889
Ion Ratio Lower Upper
95 100
174 97.3 0.0 187.4
176 93.5 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: VX002988.D

Acq: 28 Jun 2018 16:34

Instrument :

MSVOA_X

ClientSampleId :

QNWP8-EQUIP-BLANK

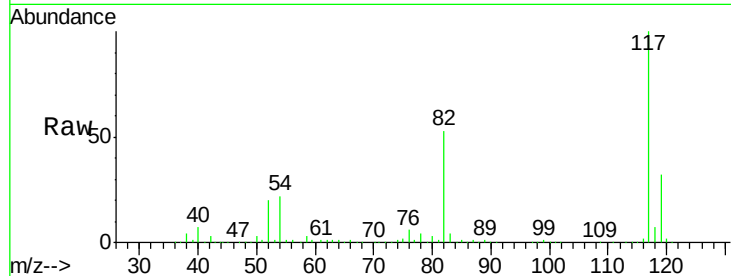
Tot Ion:117 Resp: 349764

Ion Ratio Lower Upper

117 100

82 53.1 45.0 67.4

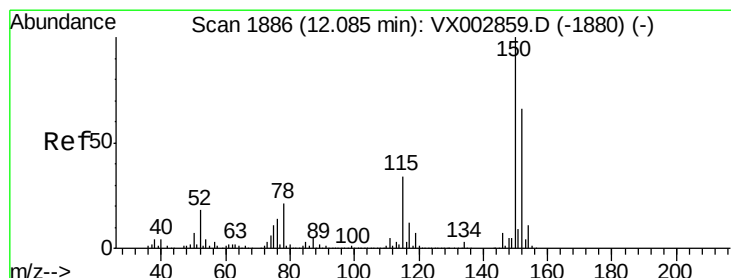
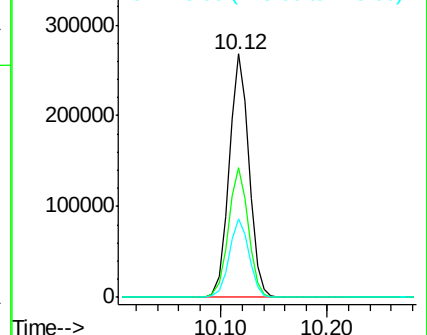
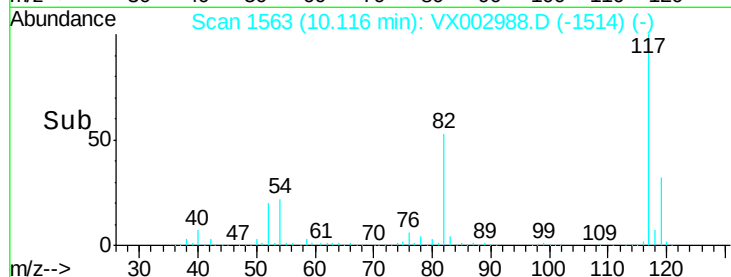
119 32.2 25.8 38.6



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



#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.09 min Scan# 1886

Delta R.T. 0.00 min

Lab File: VX002988.D

Acq: 28 Jun 2018 16:34

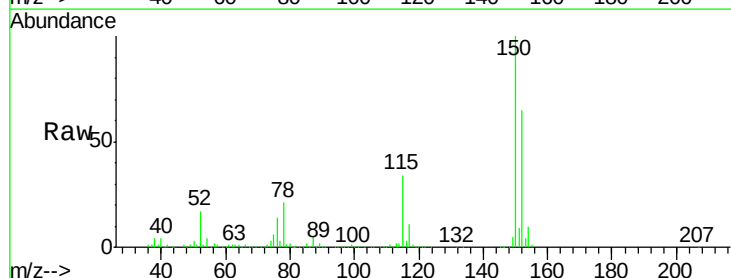
Tgt Ion:152 Resp: 194852

Ion Ratio Lower Upper

152 100

115 54.1 40.1 120.2

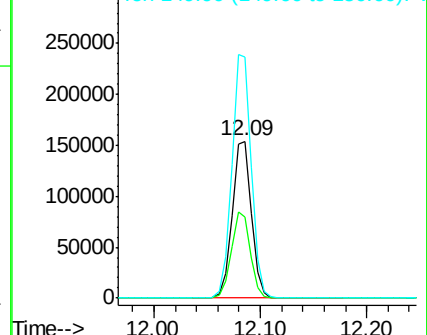
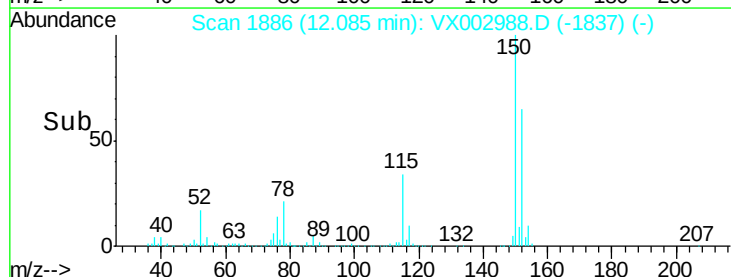
150 156.2 0.0 347.2

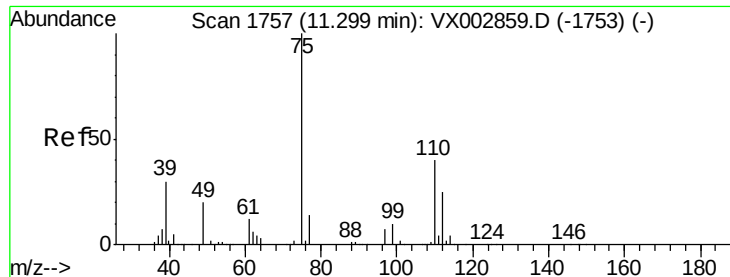


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V

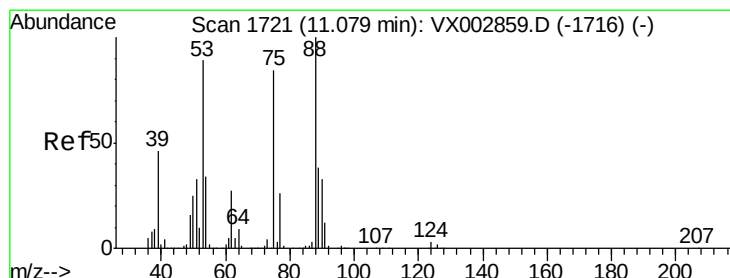
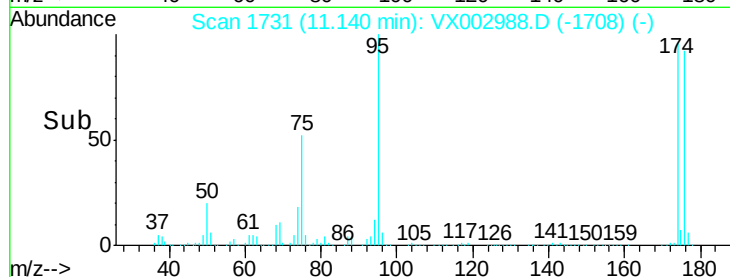
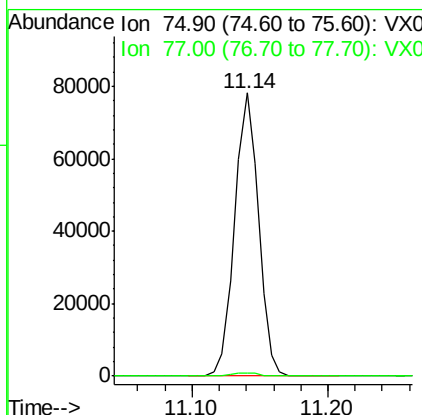
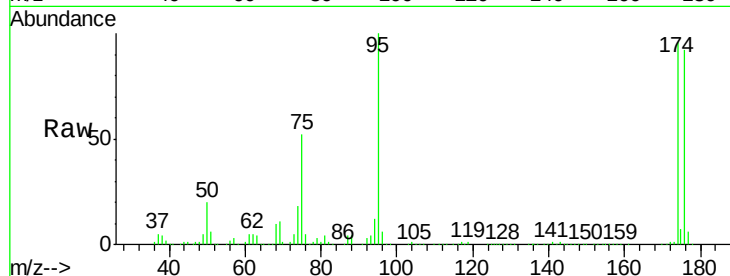




#76
 1,2,3-Trichloropropane
 Concen: 27.09 ug/l
 RT: 11.14 min Scan# 1731
 Delta R.T. -0.16 min
 Lab File: VX002988.D
 Acq: 28 Jun 2018 16:34

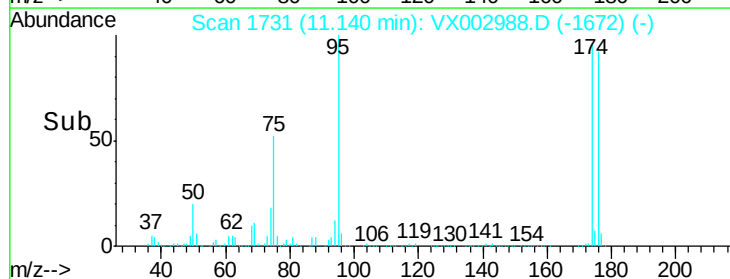
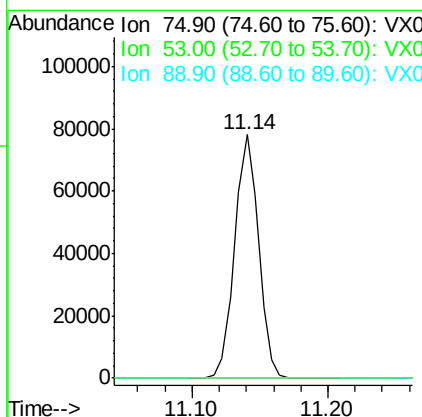
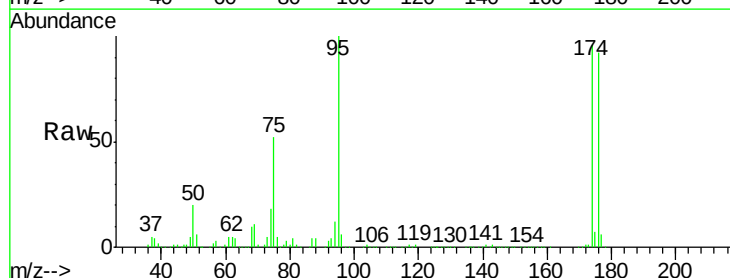
Instrument :
 MSVOA_X
 ClientSampleId :
 QNWP8-EQUIP-BLANK

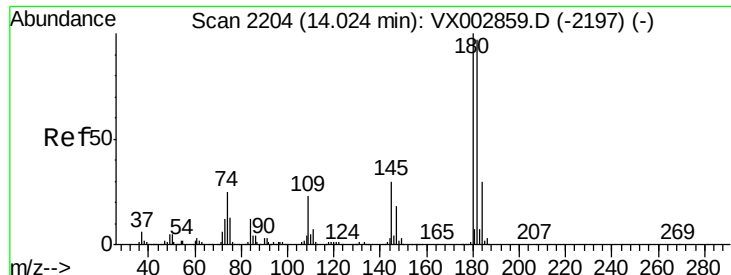
Tot Ion: 75 Resp: 95623
 Ion Ratio Lower Upper
 75 100
 77 1.2 22.8 68.3#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 76.68 ug/l
 RT: 11.14 min Scan# 1731
 Delta R.T. 0.06 min
 Lab File: VX002988.D
 Acq: 28 Jun 2018 16:34

Tgt Ion: 75 Resp: 95623
 Ion Ratio Lower Upper
 75 100
 53 0.3 86.8 130.2#
 89 0.0 38.2 57.2#

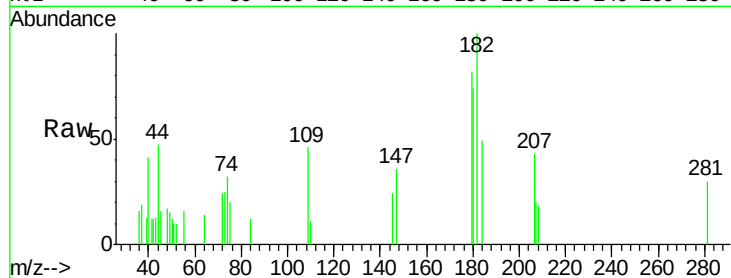




#96
 1,2,3-Trichlorobenzene
 Concen: 0.20 ug/l
 RT: 14.02 min Scan# 2203
 Delta R.T. -0.01 min
 Lab File: VX002988.D
 Acq: 28 Jun 2018 16:34

Instrument :
 MSVOA_X
 ClientSampleId :
 QNWP8-EQUIP-BLANK

Tot Ion	Ratio	Lower	Upper
180	100		
182	91.3	48.0	144.0
145	24.3	14.8	44.3



Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.90 (144.60 to 145.60): V

