

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX090618\
 Data File : VX004395.D
 Acq On : 06 Sep 2018 19:47
 Operator : JC/MD
 Sample : J4794-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 OUTFALL001-180904

Quant Time: Sep 07 04:48:24 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X082218W.M
 Quant Title : SW846 8260
 QLast Update : Thu Aug 23 05:39:44 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	293401	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	467658	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	445190	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	240128	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	205060	53.62	ug/l	0.00
Spiked Amount						
			Recovery	=	107.24%	
35) Dibromofluoromethane	5.50	113	180359	51.84	ug/l	0.00
Spiked Amount						
			Recovery	=	103.68%	
50) Toluene-d8	8.72	98	670111	51.03	ug/l	0.00
Spiked Amount						
			Recovery	=	102.06%	
62) 4-Bromofluorobenzene	11.14	95	233299	47.61	ug/l	0.00
Spiked Amount						
			Recovery	=	95.22%	

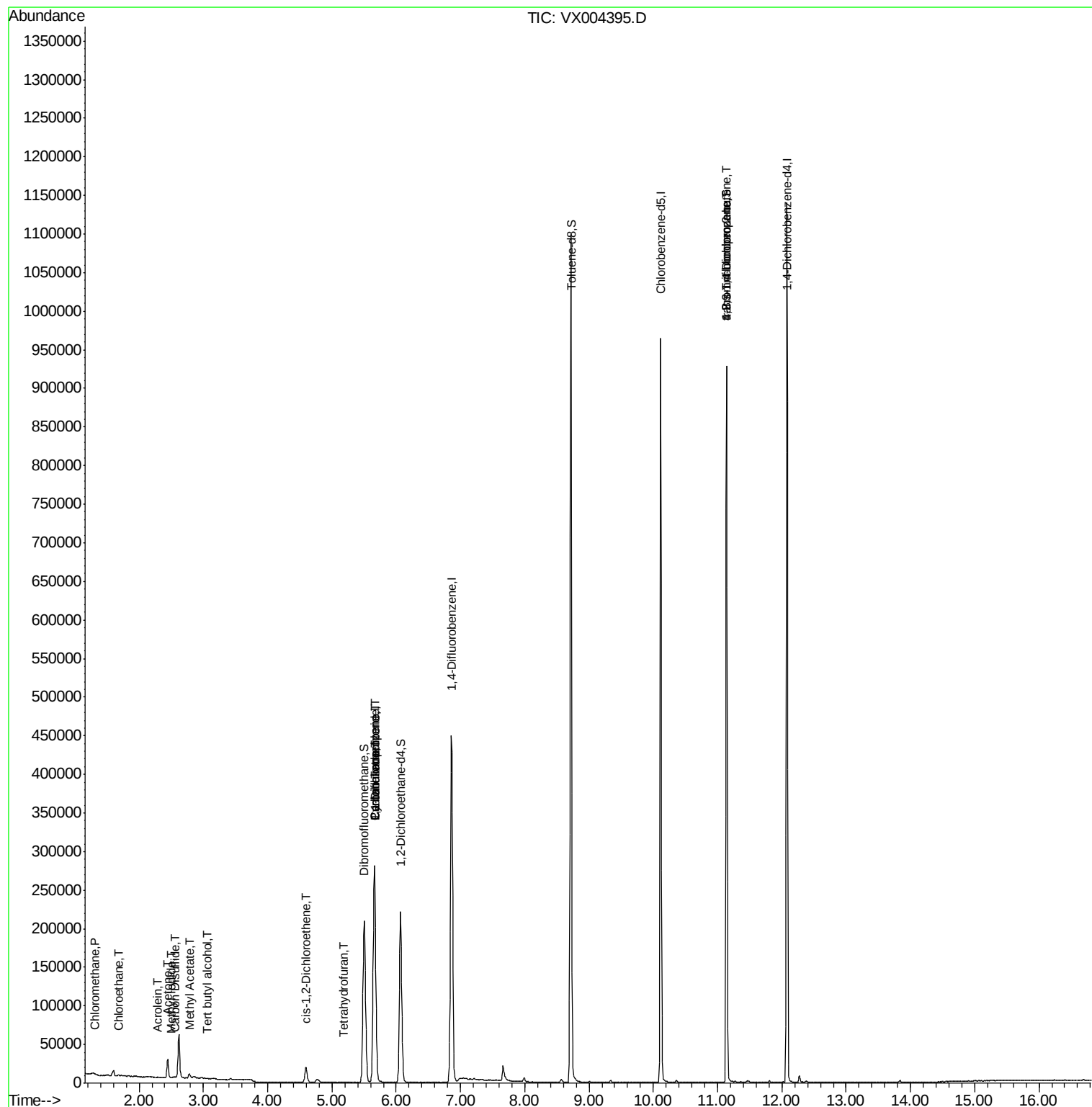
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	795	0.50	ug/l	# 87
5) Bromomethane	1.64	94	912	Below Cal		93
6) Chloroethane	1.69	64	3703	2.16	ug/l	# 54
10) Methyl Iodide	2.51	142	428	4.37	ug/l	# 58
11) Tert butyl alcohol	3.06	59	703	0.86	ug/l	# 66
13) Acrolein	2.29	56	95	0.48	ug/l	# 1
16) Acetone	2.45	43	24315	7.75	ug/l	98
17) Carbon Disulfide	2.56	76	688	0.88	ug/l	# 83
18) Methyl Acetate	2.78	43	7259	1.28	ug/l	98
25) 2-Butanone	4.71	43	398	Below Cal		# 63
27) cis-1,2-Dichloroethene	4.60	96	12499	3.20	ug/l	91
29) Tetrahydrofuran	5.17	42	1058	0.64	ug/l	# 71
31) Cyclohexane	5.66	56	5024	0.94	ug/l	# 1
36) 1,1-Dichloropropene	5.66	75	19000	3.61	ug/l	# 49
38) Carbon Tetrachloride	5.66	117	25448	5.15	ug/l	# 15
76) 1,2,3-Trichloropropane	11.14	75	108540	22.22	ug/l	# 37
81) trans-1,4-Dichloro-2-buten	11.14	75	108540	72.11	ug/l	# 10
94) Hexachlorobutadiene	13.78	225	164	Below Cal		# 53

(#) = 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# 740

Delta R.T. 0.01 min

Lab File: VX004395.D

Acq: 06 Sep 2018 19:47

Instrument :

MSVOA_X

ClientSampleId :

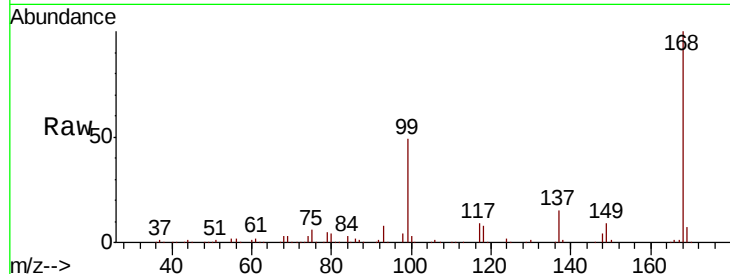
OUTFALL001-180904

Tot Ion:168 Resp: 293401

Ion Ratio Lower Upper

168 100

99 49.1 39.9 59.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

120000

100000

80000

60000

40000

20000

0

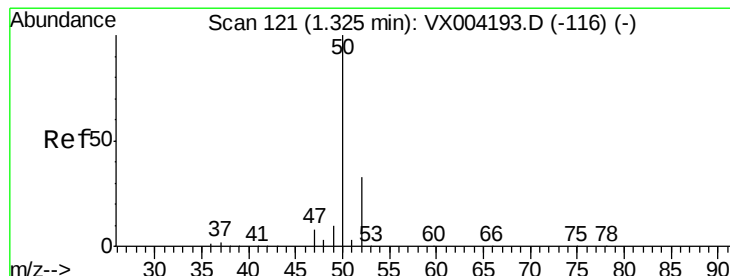
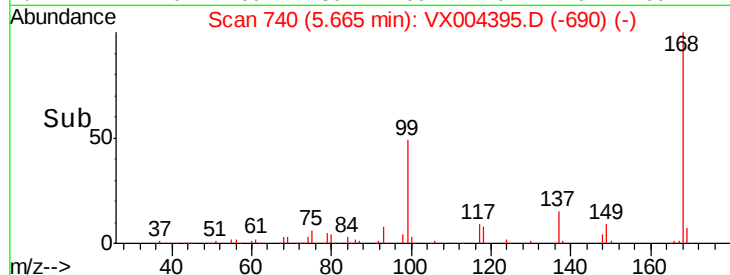
Time-->

5.50

5.60

5.70

5.80



#3

Chloromethane

Concen: 0.50 ug/l

RT: 1.32 min Scan# 27

Delta R.T. -0.01 min

Lab File: VX004395.D

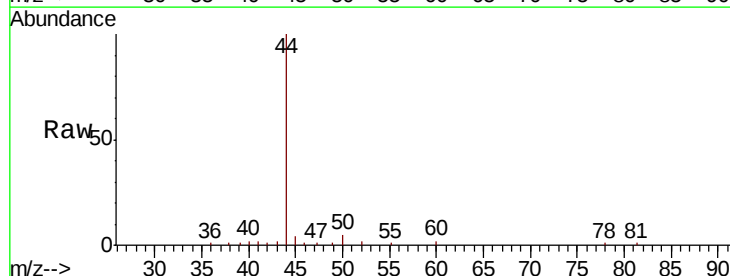
Acq: 06 Sep 2018 19:47

Tgt Ion: 50 Resp: 795

Ion Ratio Lower Upper

50 100

52 40.3 26.2 39.2#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

500

400

300

200

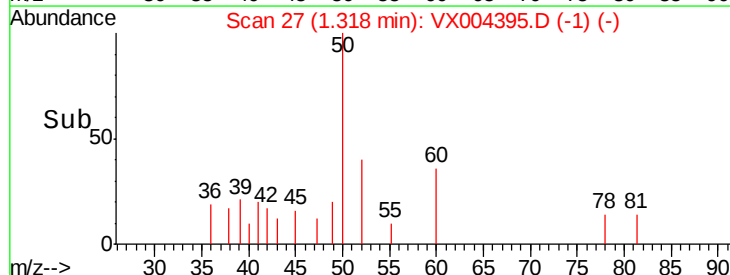
100

0

Time-->

1.30

1.35





#5

Bromomethane

Concen: Below Cal

RT: 1.64 min Scan# 80

Delta R.T. 0.01 min

Lab File: VX004395.D

Acq: 06 Sep 2018 19:47

Instrument :

MSVOA_X

ClientSampleId :

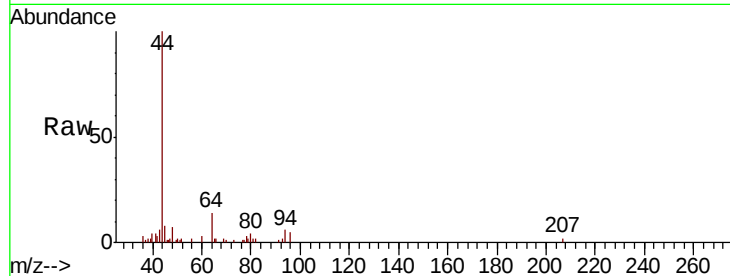
OUTFALL001-180904

Tot Ion: 94 Resp: 912

Ion Ratio Lower Upper

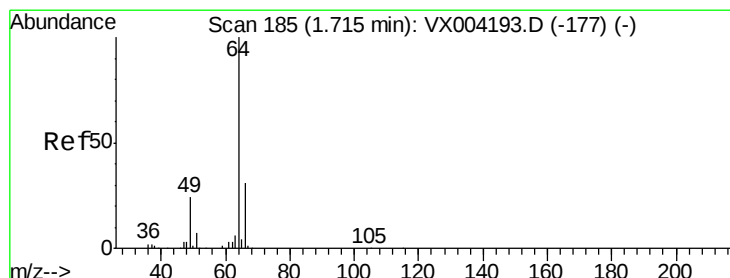
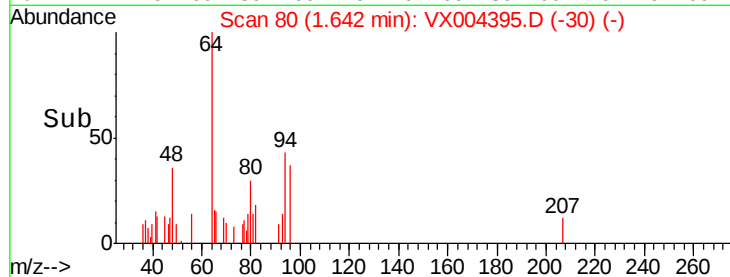
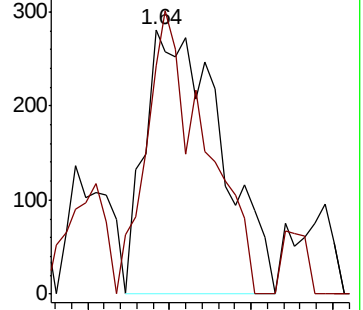
94 100

96 86.5 74.5 111.7



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#6

Chloroethane

Concen: 2.16 ug/l

RT: 1.69 min Scan# 88

Delta R.T. -0.02 min

Lab File: VX004395.D

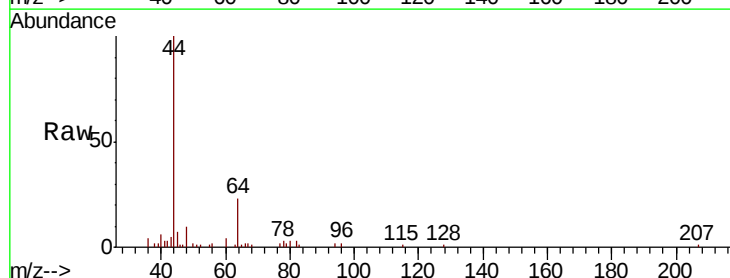
Acq: 06 Sep 2018 19:47

Tgt Ion: 64 Resp: 3703

Ion Ratio Lower Upper

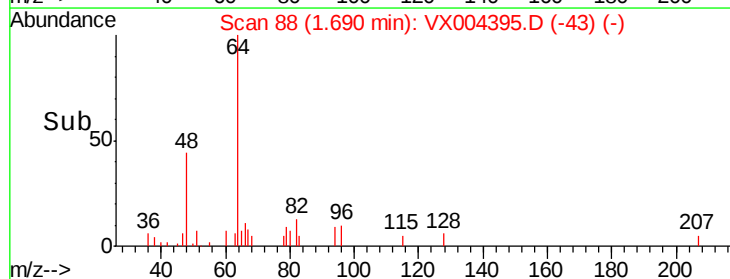
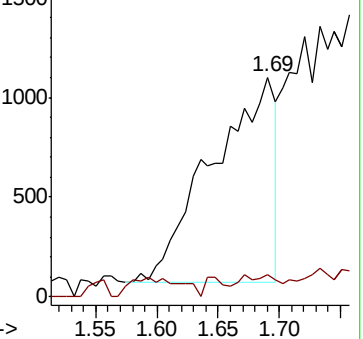
64 100

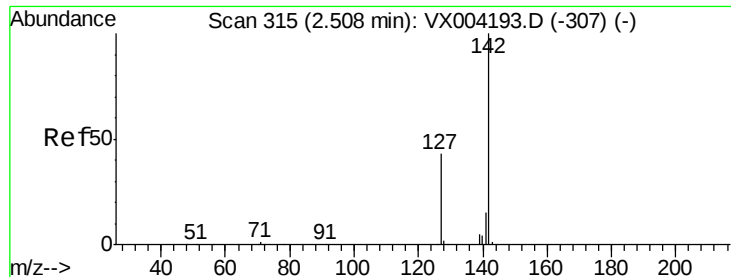
66 5.3 24.6 36.8#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

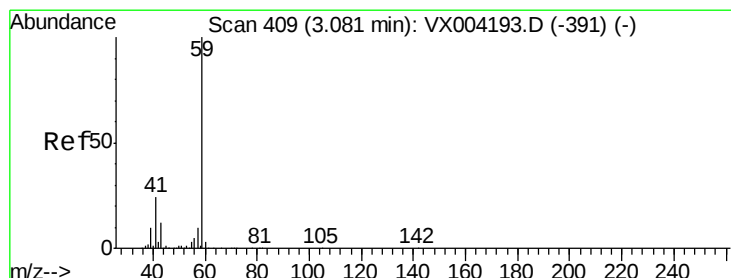
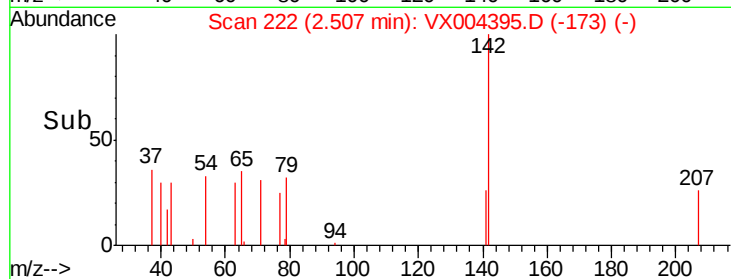
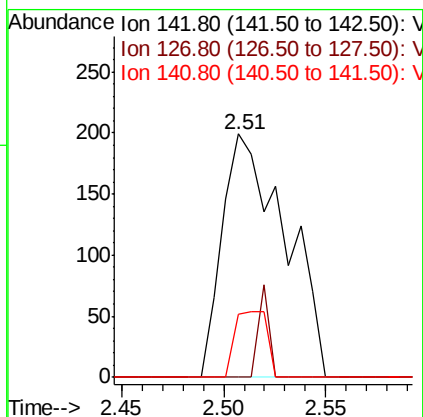
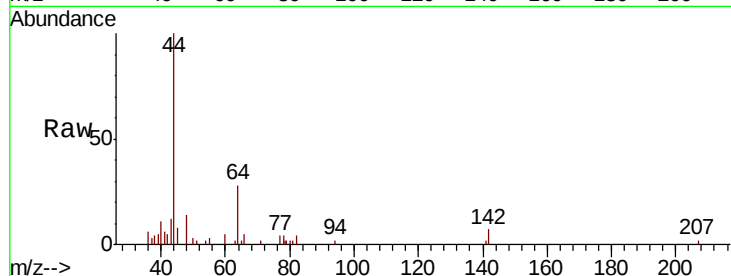




#10
Methyl Iodide
Concen: 4.37 ug/l
RT: 2.51 min Scan# 222
Delta R.T. 0.00 min
Lab File: VX004395.D
Acq: 06 Sep 2018 19:47

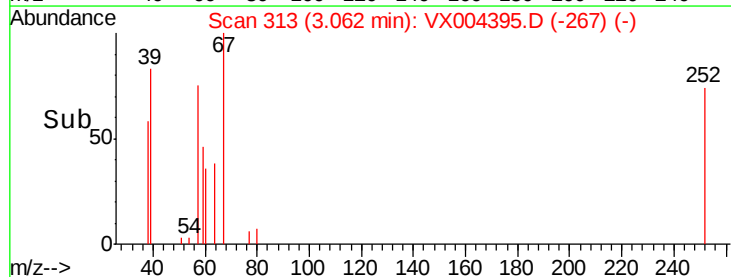
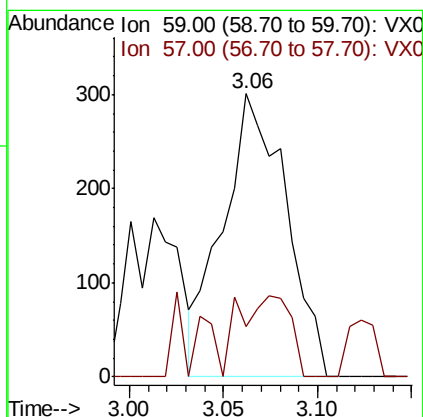
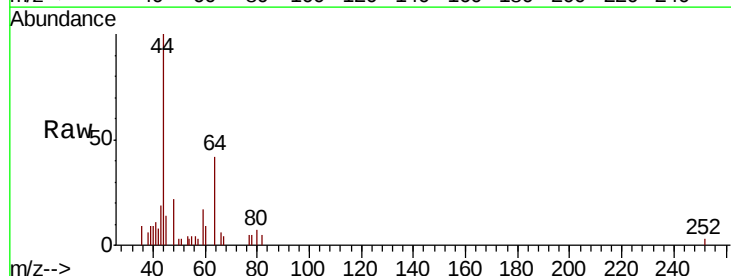
Instrument :
MSVOA_X
ClientSampleId :
OUTFALL001-180904

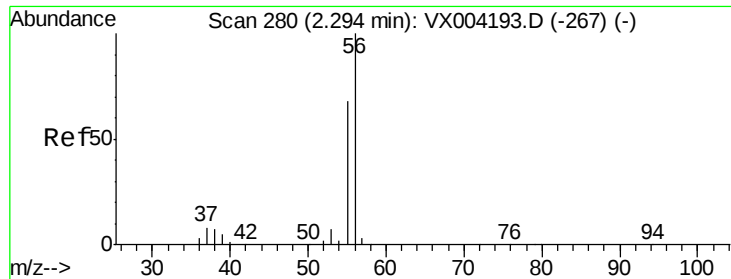
Tot Ion: 142 Resp: 428
Ion Ratio Lower Upper
142 100
127 6.5 33.8 50.6#
141 13.8 11.4 17.0



#11
Tert butyl alcohol
Concen: 0.86 ug/l
RT: 3.06 min Scan# 313
Delta R.T. -0.02 min
Lab File: VX004395.D
Acq: 06 Sep 2018 19:47

Tgt Ion: 59 Resp: 703
Ion Ratio Lower Upper
59 100
57 23.0 8.2 12.4#





#13

Acrolein

Concen: 0.48 ug/l

RT: 2.29 min Scan# 187

Delta R.T. -0.00 min

Lab File: VX004395.D

Acq: 06 Sep 2018 19:47

Instrument :

MSVOA_X

ClientSampleId :

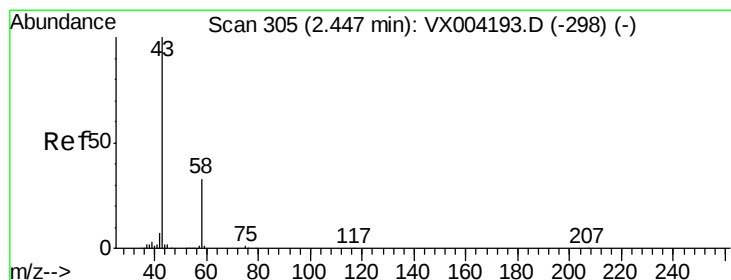
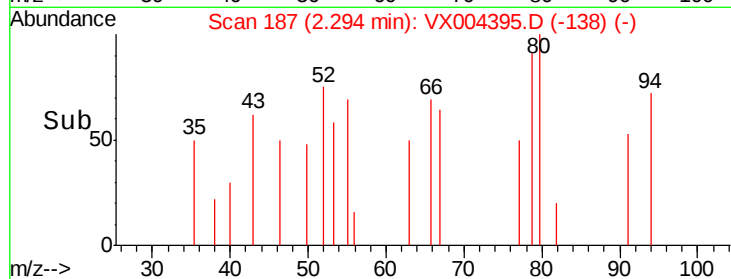
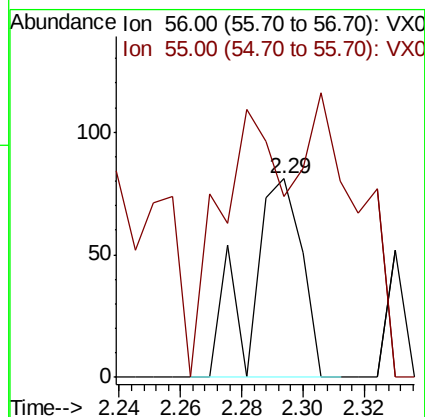
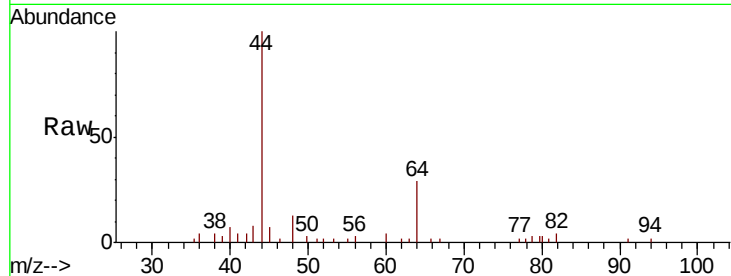
OUTFALL001-180904

Tot Ion: 56 Resp: 95

Ion Ratio Lower Upper

56 100

55 161.1 54.7 82.1#



#16

Acetone

Concen: 7.75 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX004395.D

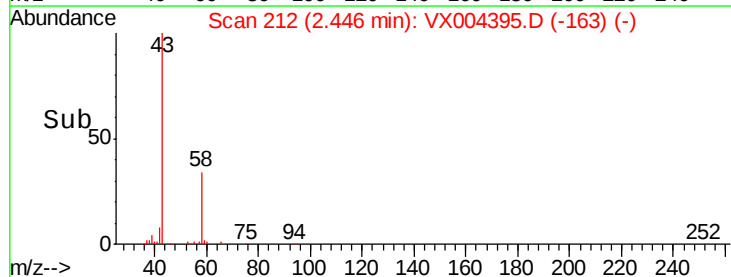
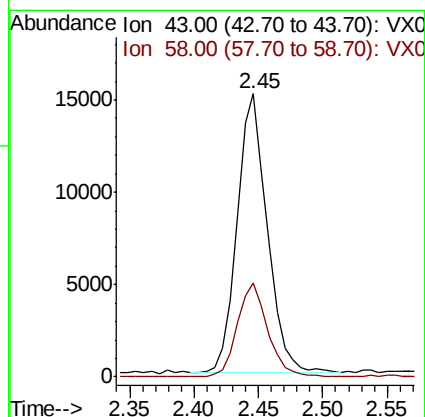
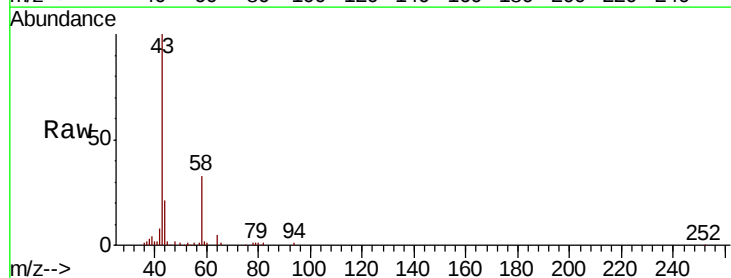
Acq: 06 Sep 2018 19:47

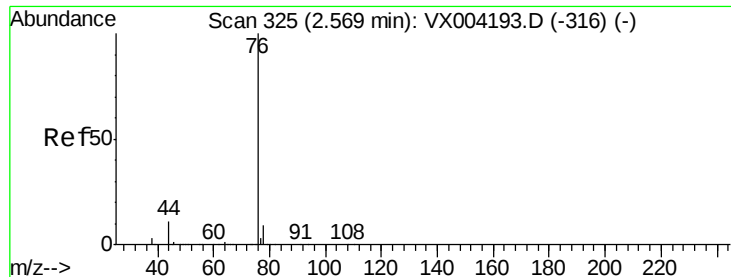
Tgt Ion: 43 Resp: 24315

Ion Ratio Lower Upper

43 100

58 33.8 26.2 39.4

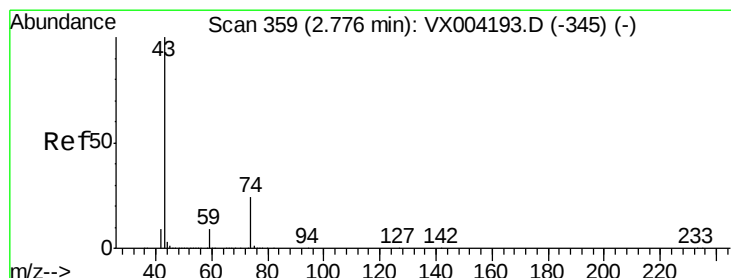
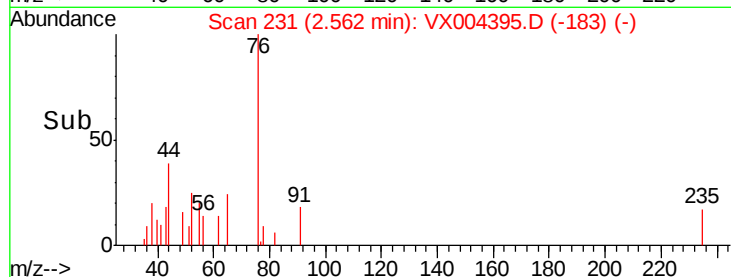
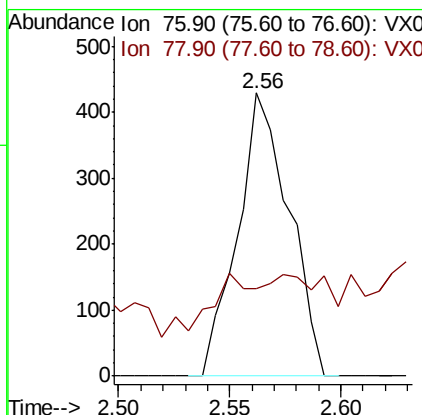
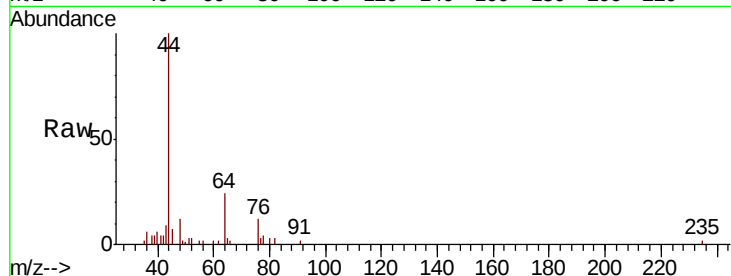




#17
Carbon Disulfide
Concen: 0.88 ug/l
RT: 2.56 min Scan# 231
Delta R.T. -0.01 min
Lab File: VX004395.D
Acq: 06 Sep 2018 19:47

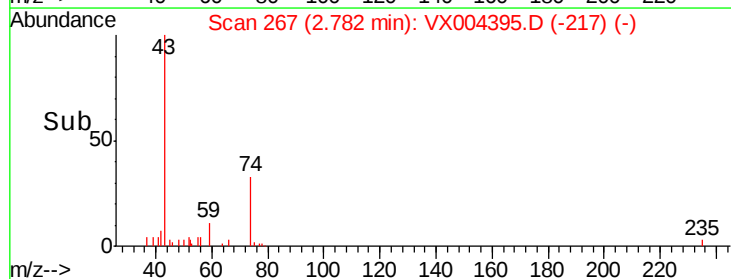
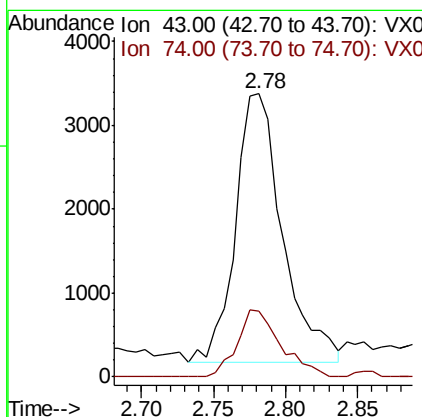
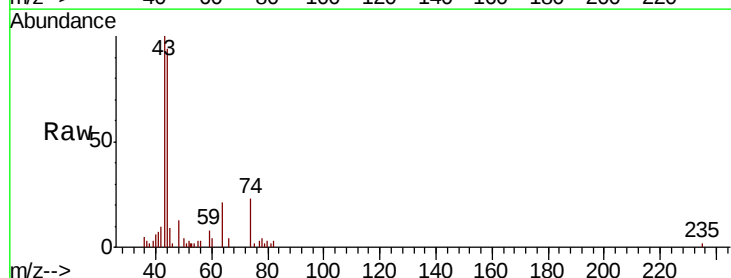
Instrument :
MSVOA_X
ClientSampleId :
OUTFALL001-180904

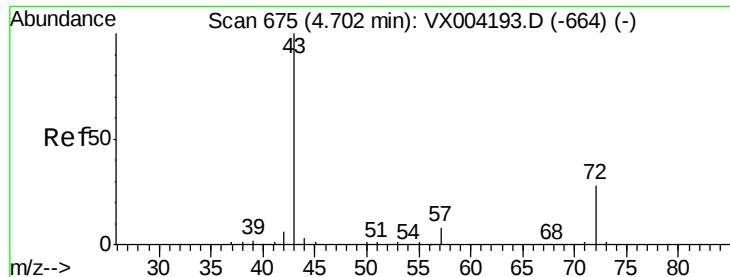
Tot Ion: 76 Resp: 688
Ion Ratio Lower Upper
76 100
78 14.9 7.0 10.6#



#18
Methyl Acetate
Concen: 1.28 ug/l
RT: 2.78 min Scan# 267
Delta R.T. 0.01 min
Lab File: VX004395.D
Acq: 06 Sep 2018 19:47

Tgt Ion: 43 Resp: 7259
Ion Ratio Lower Upper
43 100
74 23.1 19.4 29.2





#25

2-Butanone

Concen: Below Cal

RT: 4.71 min Scan# 584

Delta R.T. 0.01 min

Lab File: VX004395.D

Acq: 06 Sep 2018 19:47

Instrument :

MSVOA_X

ClientSampleId :

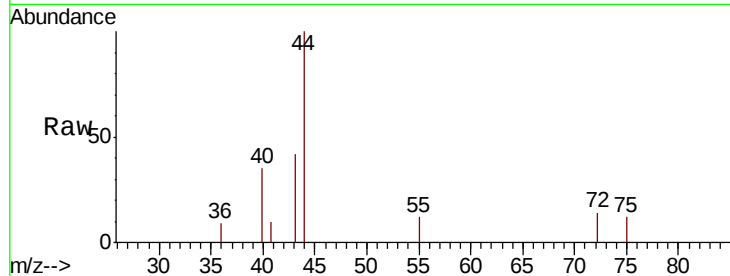
OUTFALL001-180904

Tot Ion: 43 Resp: 398

Ion Ratio Lower Upper

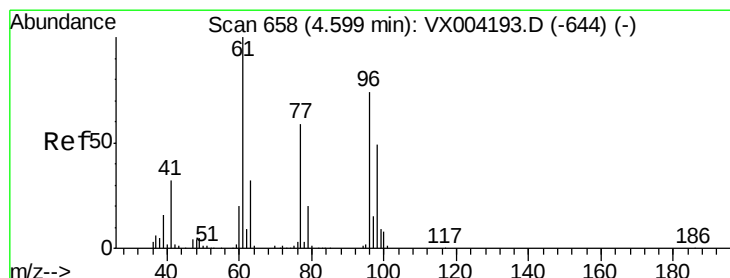
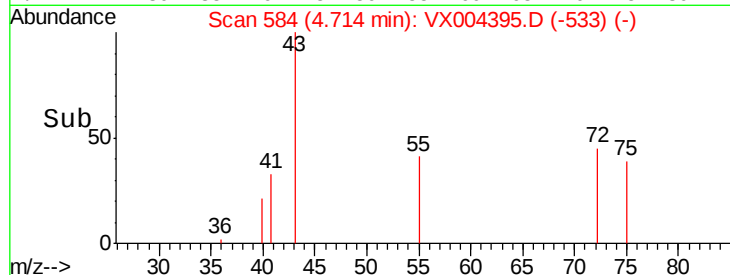
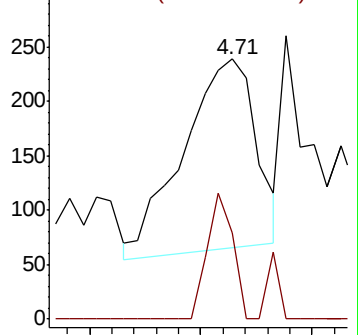
43 100

72 46.7 22.0 33.0#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



#27

cis-1,2-Dichloroethene

Concen: 3.20 ug/l

RT: 4.60 min Scan# 565

Delta R.T. -0.00 min

Lab File: VX004395.D

Acq: 06 Sep 2018 19:47

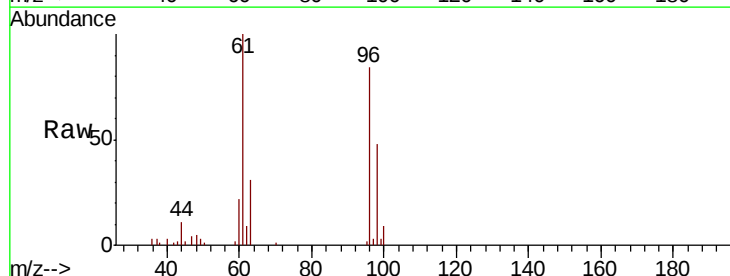
Tgt Ion: 96 Resp: 12499

Ion Ratio Lower Upper

96 100

61 126.2 0.0 282.6

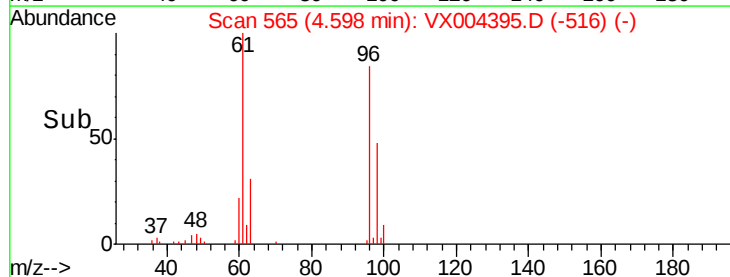
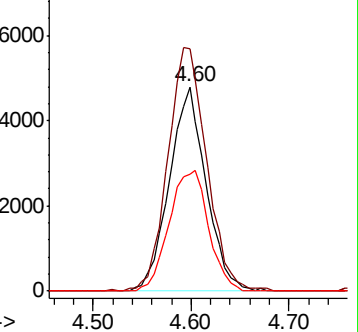
98 63.0 0.0 130.2

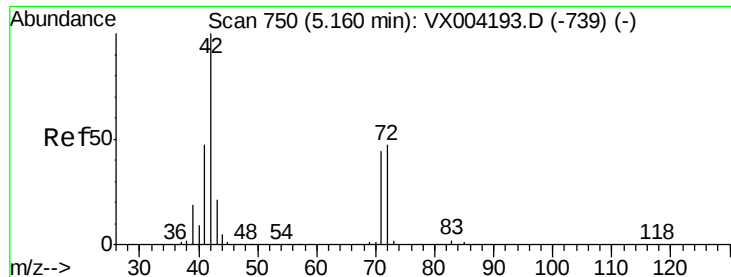


Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0





#29

Tetrahydrofuran

Concen: 0.64 ug/l

RT: 5.17 min Scan# 659

Delta R.T. 0.01 min

Lab File: VX004395.D

Acq: 06 Sep 2018 19:47

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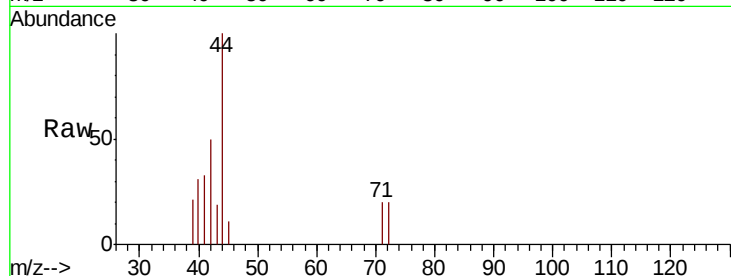
Tot Ion: 42 Resp: 1058

Ion Ratio Lower Upper

42 100

72 26.5 37.4 56.0#

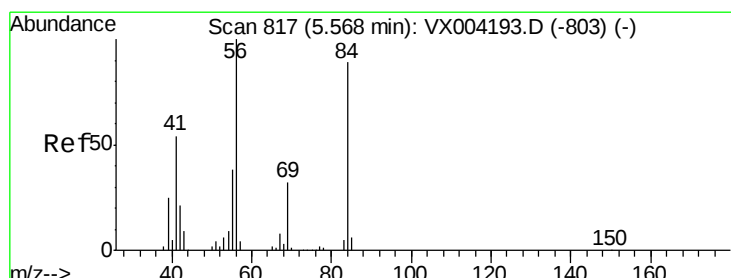
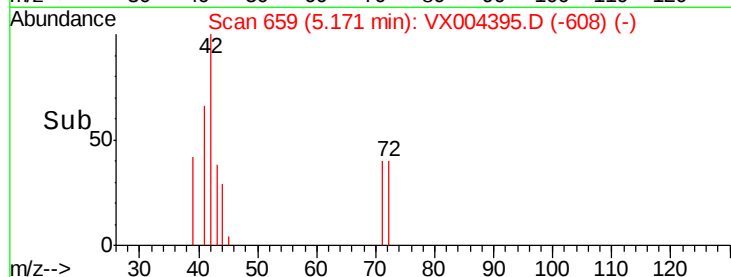
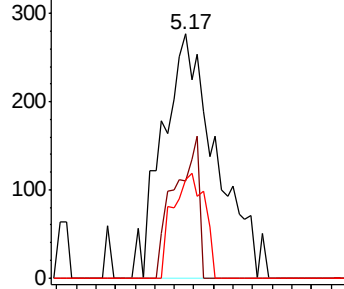
71 25.2 34.5 51.7#



Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0



#31

Cyclohexane

Concen: 0.94 ug/l

RT: 5.66 min Scan# 739

Delta R.T. 0.09 min

Lab File: VX004395.D

Acq: 06 Sep 2018 19:47

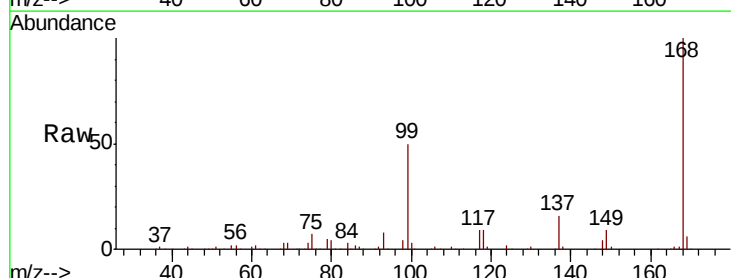
Tgt Ion: 56 Resp: 5024

Ion Ratio Lower Upper

56 100

69 166.3 25.4 38.2#

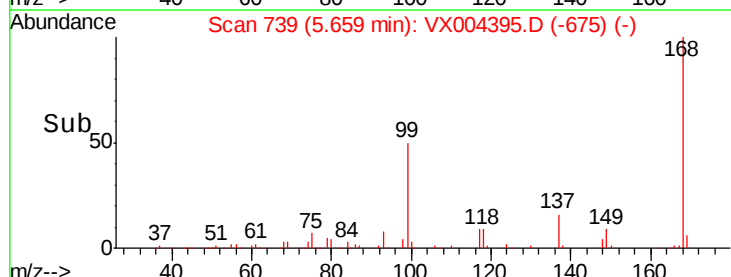
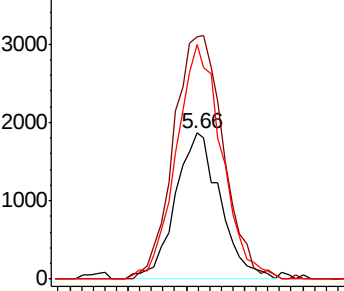
84 160.7 71.4 107.2#

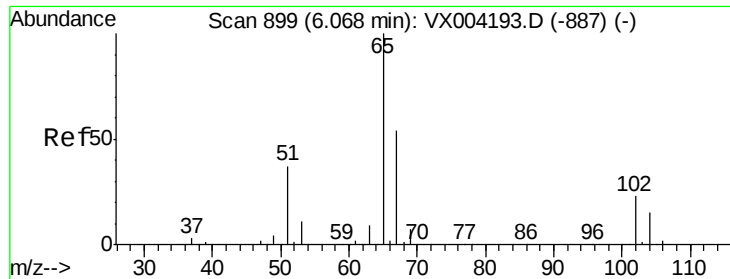


Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0

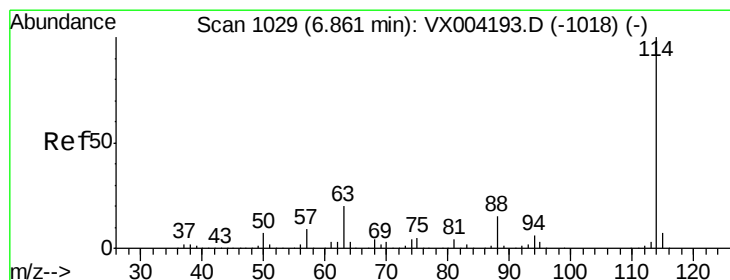
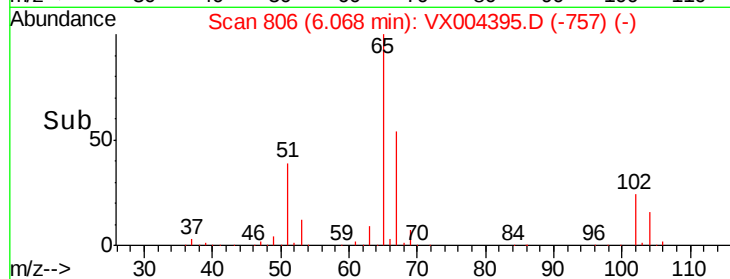
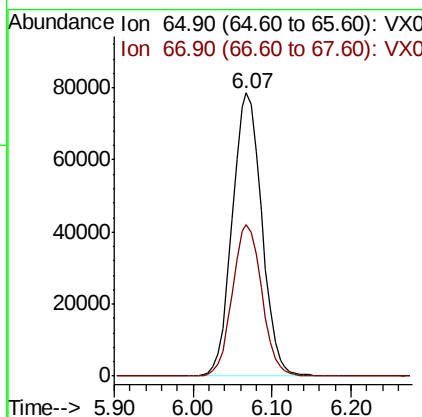
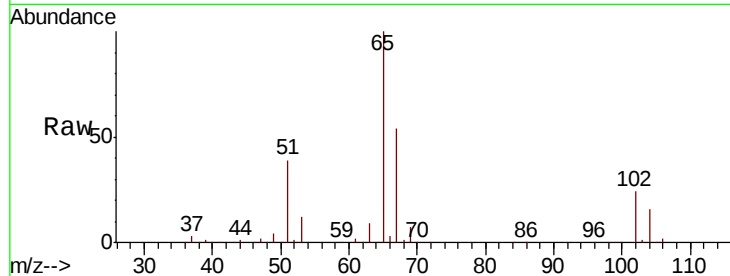




#33
 1,2-Dichloroethane-d4
 Concen: 53.62 ug/l
 RT: 6.07 min Scan# 806
 Delta R.T. -0.00 min
 Lab File: VX004395.D
 Acq: 06 Sep 2018 19:47

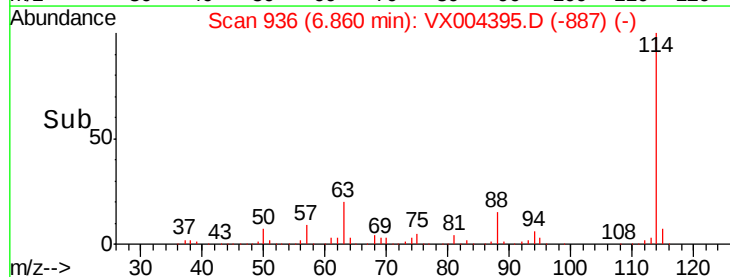
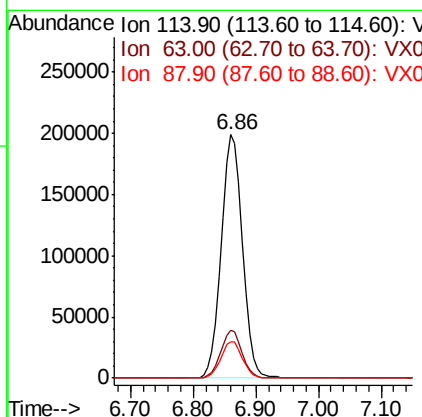
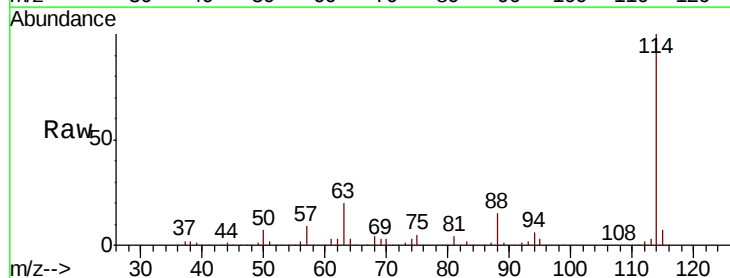
Instrument :
 MSVOA_X
 ClientSampleId :
 OUTFALL001-180904

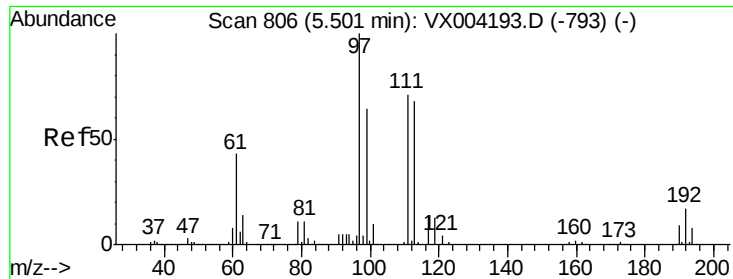
Tot Ion: 65 Resp: 205060
 Ion Ratio Lower Upper
 65 100
 67 53.5 0.0 106.8



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. -0.00 min
 Lab File: VX004395.D
 Acq: 06 Sep 2018 19:47

Tgt Ion: 114 Resp: 467658
 Ion Ratio Lower Upper
 114 100
 63 19.9 0.0 39.0
 88 15.1 0.0 30.4

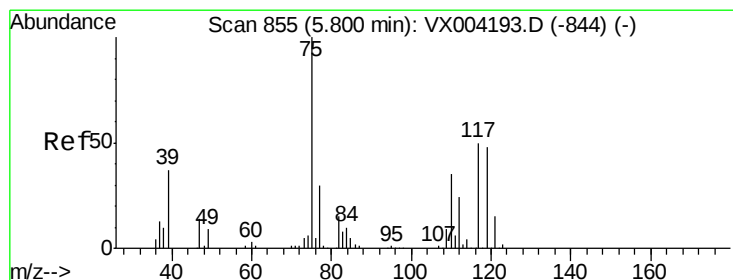
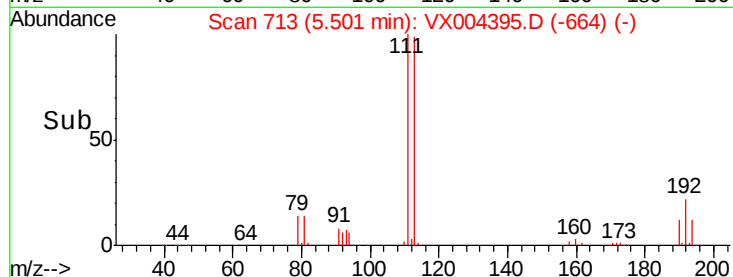
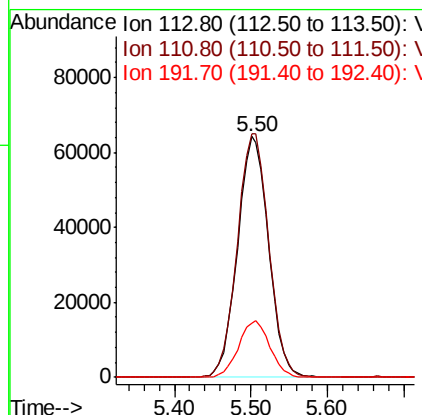
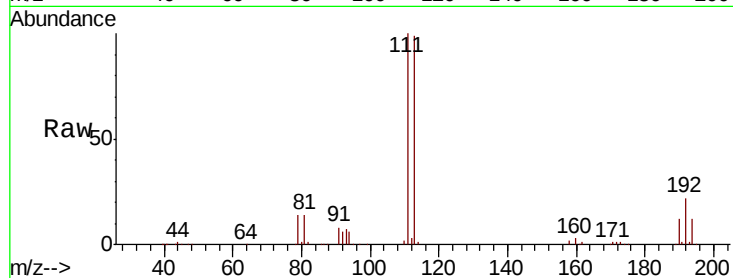




#35
 Dibromofluoromethane
 Concen: 51.84 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. -0.00 min
 Lab File: VX004395.D
 Acq: 06 Sep 2018 19:47

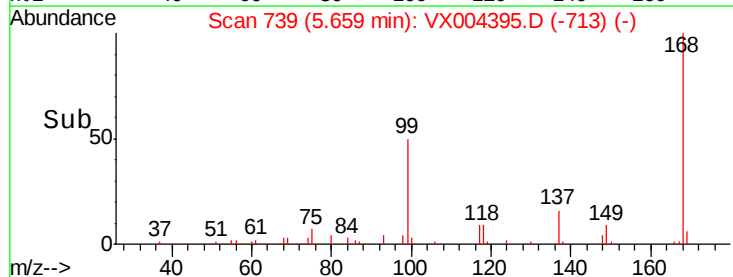
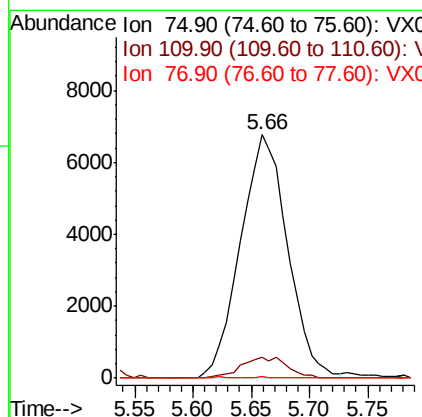
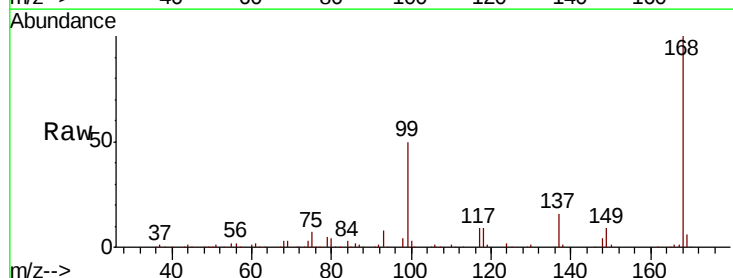
Instrument :
 MSVOA_X
 ClientSampleId :
 OUTFALL001-180904

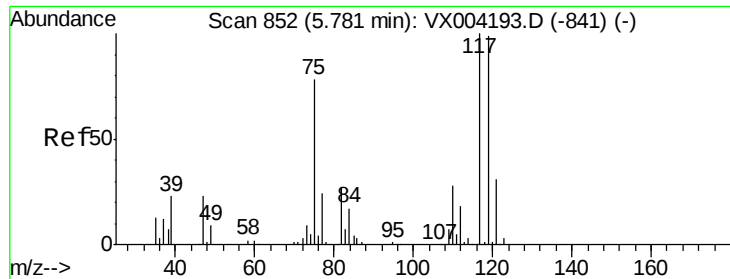
Tot Ion	Ratio	Lower	Upper
113	100		
111	102.8	82.4	123.6
192	23.8	19.4	29.2



#36
 1,1-Dichloropropene
 Concen: 3.61 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.14 min
 Lab File: VX004395.D
 Acq: 06 Sep 2018 19:47

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.6	18.0	54.0#
77	0.1	24.6	36.8#





#38

Carbon Tetrachloride

Concen: 5.15 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.12 min

Lab File: VX004395.D

Acq: 06 Sep 2018 19:47

Instrument :

MSVOA_X

ClientSampleId :

OUTFALL001-180904

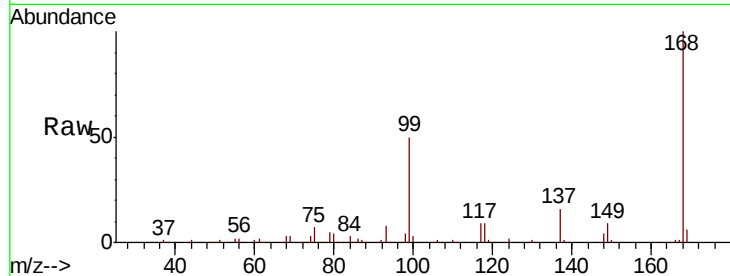
Tot Ion:117 Resp: 25448

Ion Ratio Lower Upper

117 100

119 5.9 78.8 118.2#

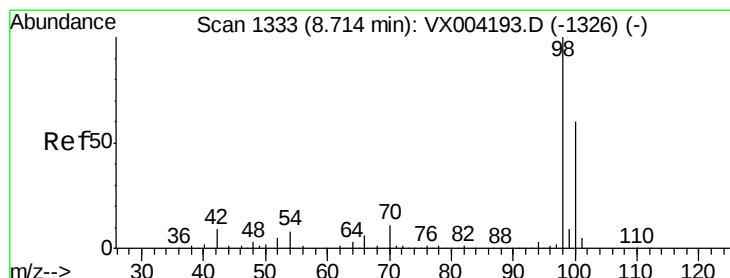
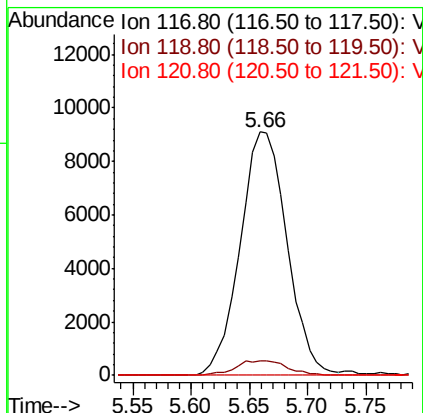
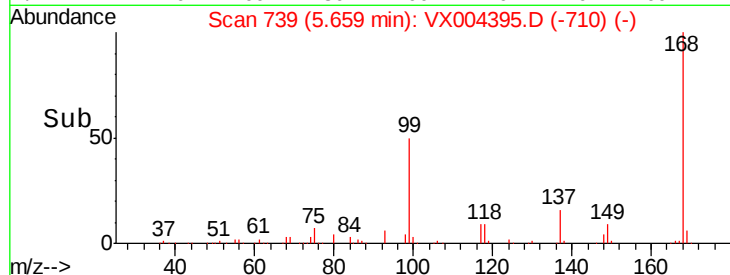
121 0.0 24.9 37.3#



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



#50

Toluene-d8

Concen: 51.03 ug/l

RT: 8.72 min Scan# 1241

Delta R.T. 0.01 min

Lab File: VX004395.D

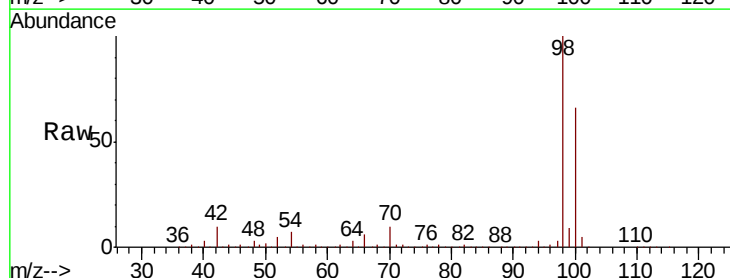
Acq: 06 Sep 2018 19:47

Tgt Ion: 98 Resp: 670111

Ion Ratio Lower Upper

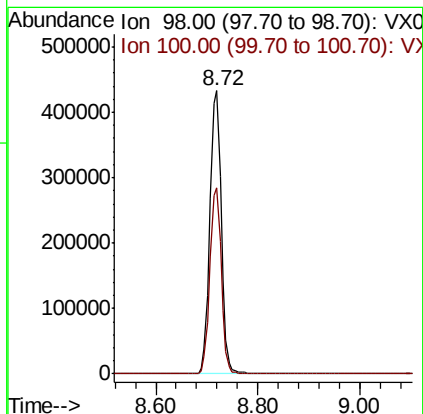
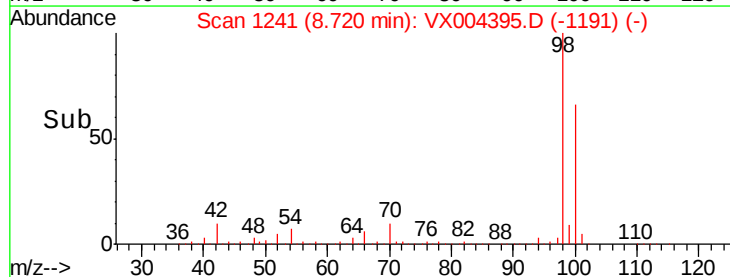
98 100

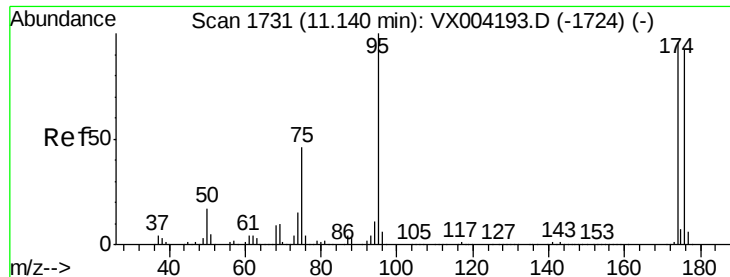
100 65.8 52.9 79.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V

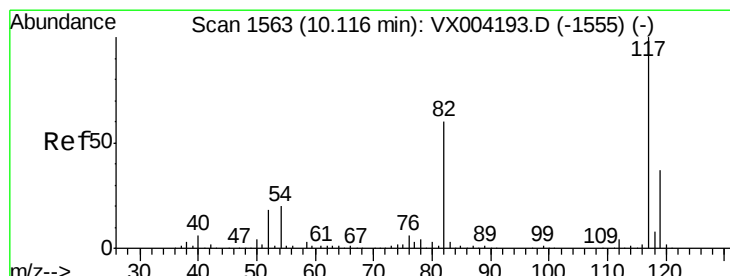
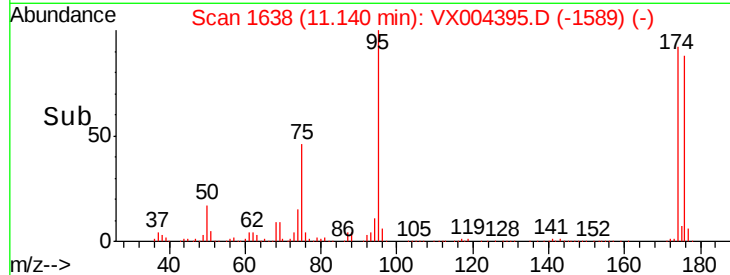
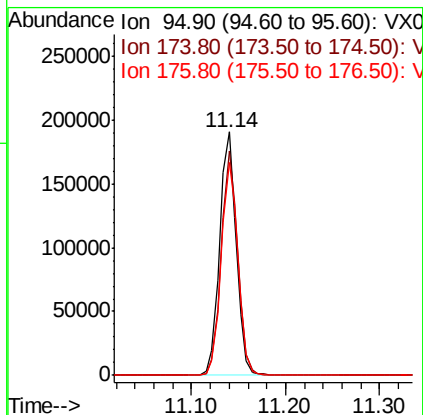
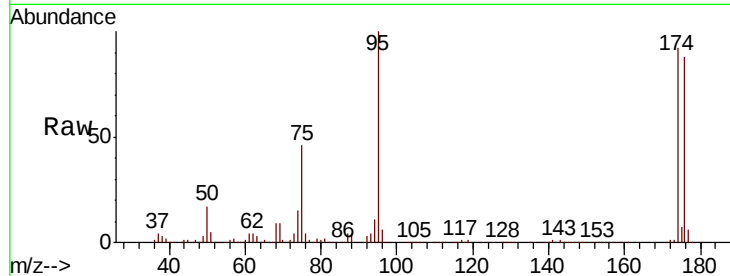




#62
4-Bromofluorobenzene
Concen: 47.61 ug/l
RT: 11.14 min Scan# 1638
Delta R.T. -0.00 min
Lab File: VX004395.D
Acq: 06 Sep 2018 19:47

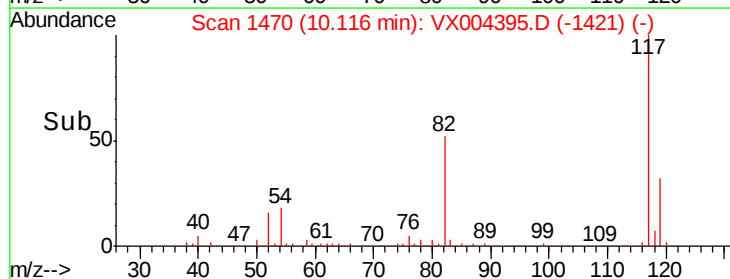
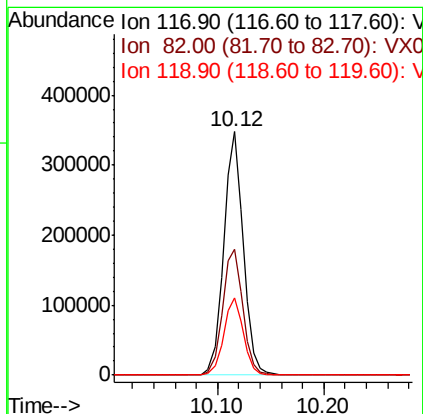
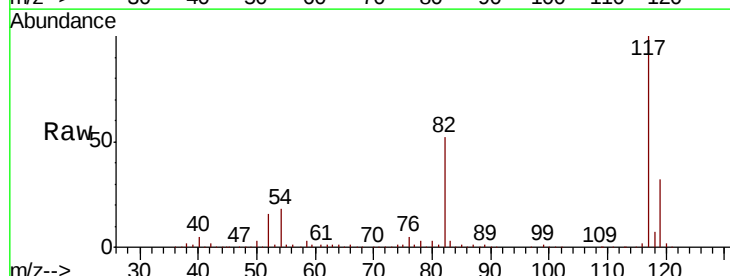
Instrument :
MSVOA_X
ClientSampleId :
OUTFALL001-180904

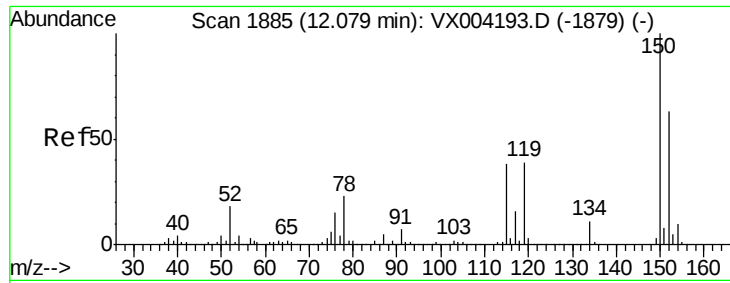
Tot Ion: 95 Resp: 233299
Ion Ratio Lower Upper
95 100
174 91.9 0.0 185.2
176 88.5 0.0 178.6



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. -0.00 min
Lab File: VX004395.D
Acq: 06 Sep 2018 19:47

Tgt Ion: 117 Resp: 445190
Ion Ratio Lower Upper
117 100
82 51.7 47.8 71.6
119 31.8 29.3 43.9





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX004395.D

Acq: 06 Sep 2018 19:47

Instrument :

MSVOA_X

ClientSampleId :

OUTFALL001-180904

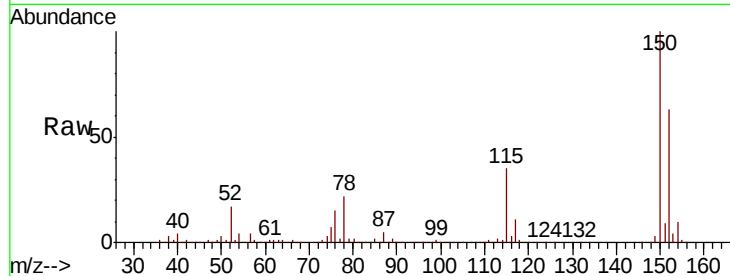
Tot Ion:152 Resp: 240128

Ion Ratio Lower Upper

152 100

115 55.4 39.0 117.0

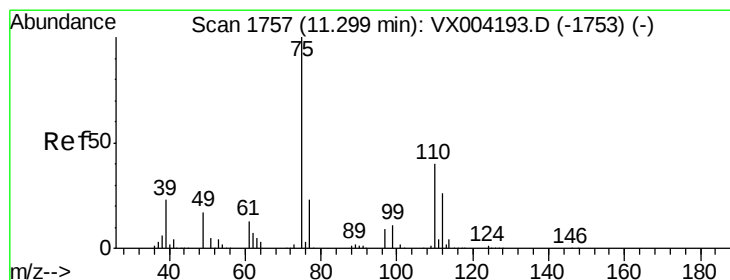
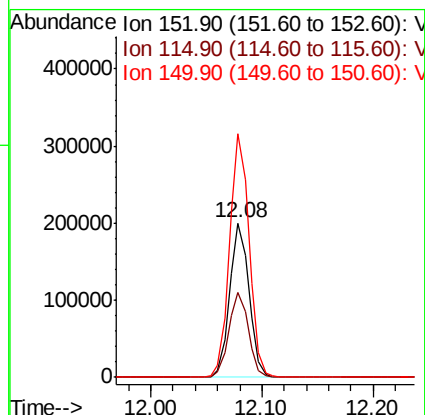
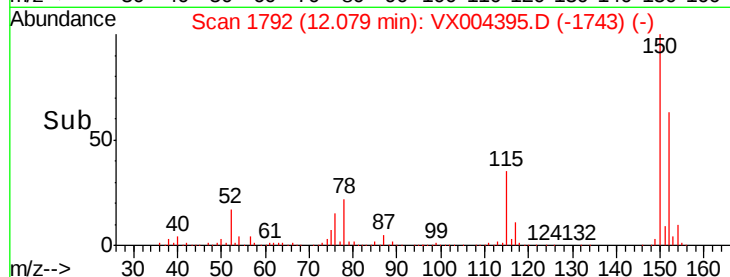
150 159.3 0.0 351.0



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: 22.22 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.16 min

Lab File: VX004395.D

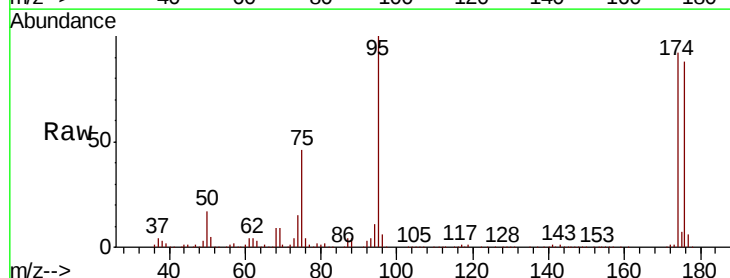
Acq: 06 Sep 2018 19:47

Tgt Ion: 75 Resp: 108540

Ion Ratio Lower Upper

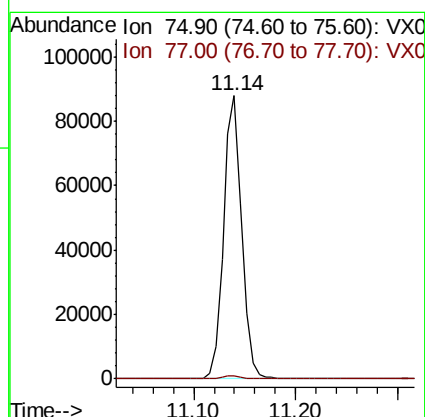
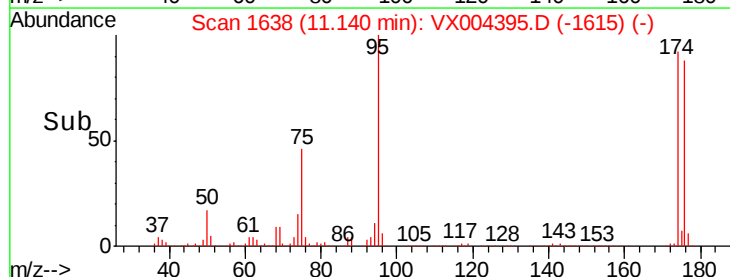
75 100

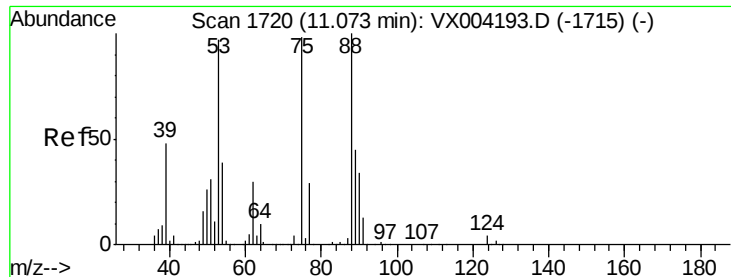
77 1.3 20.2 60.6#



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: 72.11 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.07 min

Lab File: VX004395.D

Acq: 06 Sep 2018 19:47

Instrument :

MSVOA_X

ClientSampleId :

OUTFALL001-180904

Tot Ion: 75 Resp: 108540

Ion Ratio Lower Upper

75 100

53 0.2 80.1 120.1#

89 0.0 37.2 55.8#

