

Data Path : W:\HPCHEM1\MSVOA_X\DATA\VX051718\
 Data File : VX001789.D
 Acq On : 17 May 2018 14:39
 Operator : JC/MD
 Sample : J2853-11
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 ST008MW026-180507

Quant Time: May 18 03:56:14 2018
 Quant Method : W:\HPCHEM1\MSVOA_X\METHOD\82X051518W.M
 Quant Title : SW846 8260
 QLast Update : Tue May 15 01:36:22 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	294003	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	397444	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	320087	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	159836	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.07	65	207706	52.71	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.42%	
35) Dibromofluoromethane	5.51	113	177884	53.04	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.08%	
50) Toluene-d8	8.72	98	623182	51.88	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.76%	
62) 4-Bromofluorobenzene	11.14	95	178840	41.35	ug/l	0.00
Spiked Amount	50.000		Recovery	=	82.70%	

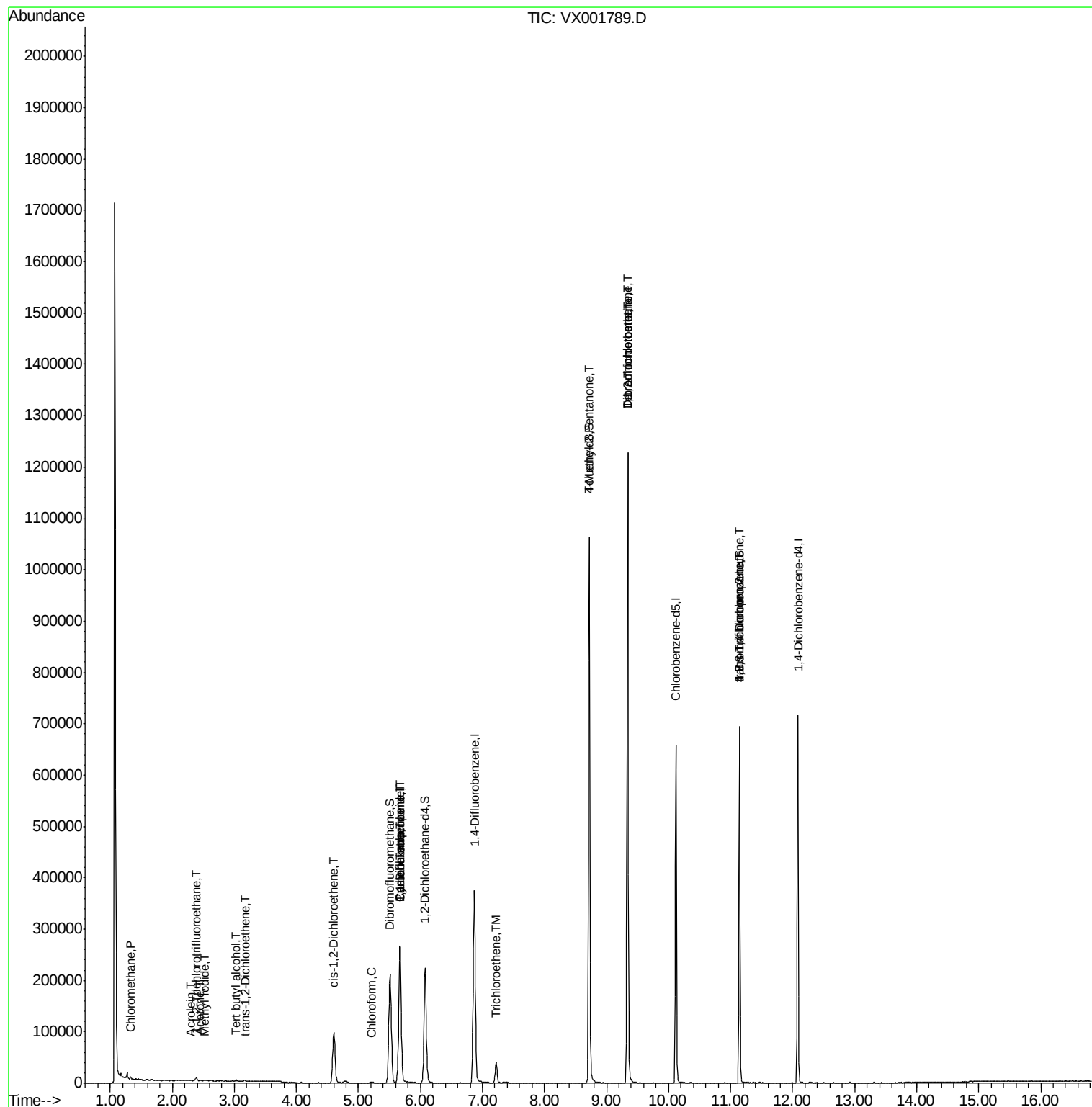
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	2276	0.71	ug/l	97
5) Bromomethane	1.66	94	1109	Below Cal	#	70
9) 1,1,2-Trichlorotrifluoroet	2.39	101	2554	0.85	ug/l	95
10) Methyl Iodide	2.51	142	1357	0.49	ug/l	# 84
11) Tert butyl alcohol	3.03	59	1726	2.47	ug/l	# 75
13) Acrolein	2.31	56	102	0.21	ug/l	# 15
16) Acetone	2.45	43	1096	0.71	ug/l	# 88
21) trans-1,2-Dichloroethene	3.16	96	791	0.25	ug/l	# 78
27) cis-1,2-Dichloroethene	4.60	96	66418	18.23	ug/l	92
30) Chloroform	5.21	83	1420	0.24	ug/l	97
31) Cyclohexane	5.67	56	4482	0.90	ug/l	# 1
36) 1,1-Dichloropropene	5.67	75	16799	3.67	ug/l	# 49
38) Carbon Tetrachloride	5.67	117	24222	5.05	ug/l	# 16
44) Trichloroethene	7.22	130	17074	4.08	ug/l	93
51) 4-Methyl-2-Pentanone	8.72	43	2661	0.56	ug/l	# 1
55) 1,1,2-Trichloroethane	9.34	97	1891	0.57	ug/l	# 1
60) Dibromochloromethane	9.34	129	224515	66.22	ug/l	# 11
64) Tetrachloroethene	9.34	164	272271	65.34	ug/l	99
76) 1,2,3-Trichloropropane	11.14	75	82098	27.01	ug/l	# 39
81) trans-1,4-Dichloro-2-buten	11.14	75	82098	78.48	ug/l	# 10

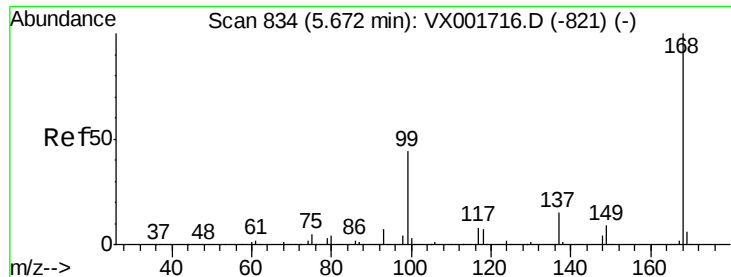
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 834

Delta R.T. 0.00 min

Lab File: VX001789.D

Acq: 17 May 2018 14:39

Instrument :

MSVOA_X

ClientSampleId :

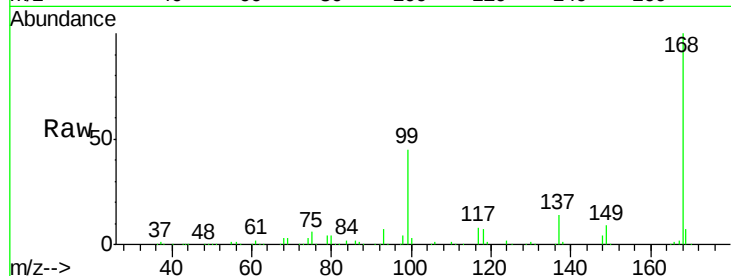
ST008MW026-180507

Tgt Ion:168 Resp: 294003

Ion Ratio Lower Upper

168 100

99 45.1 35.0 52.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

120000

100000

80000

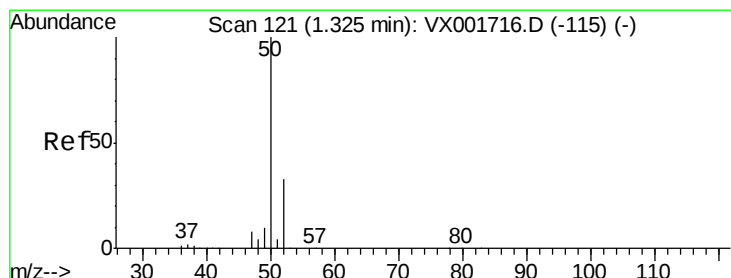
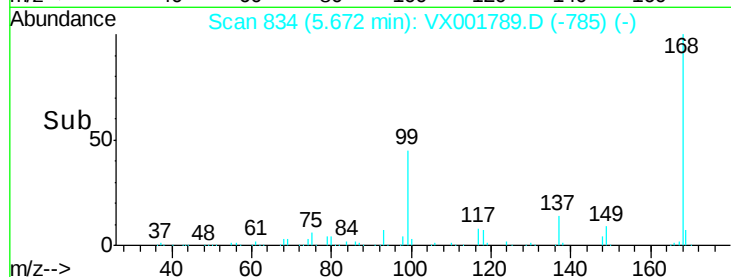
60000

40000

20000

0

Time-->



#3

Chloromethane

Concen: 0.71 ug/l

RT: 1.32 min Scan# 121

Delta R.T. 0.00 min

Lab File: VX001789.D

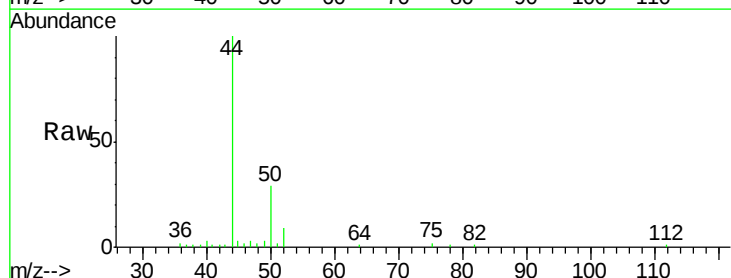
Acq: 17 May 2018 14:39

Tgt Ion: 50 Resp: 2276

Ion Ratio Lower Upper

50 100

52 31.4 26.3 39.5



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

2000

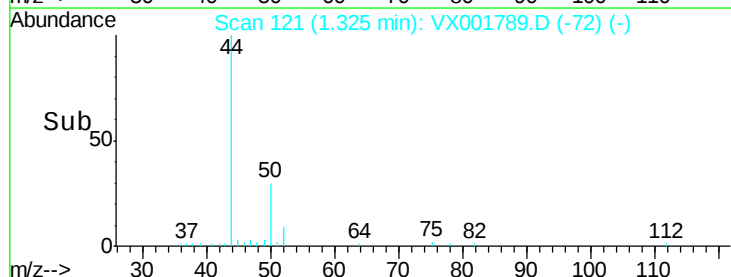
1500

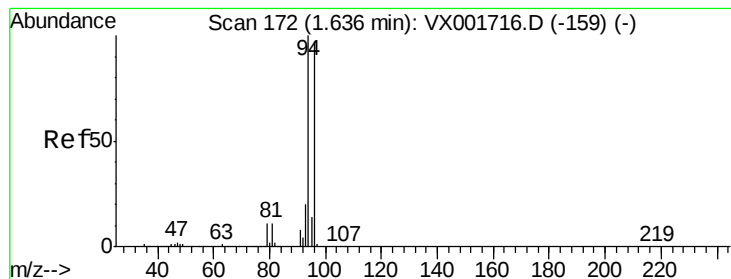
1000

500

0

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 1.66 min Scan# 176

Delta R.T. 0.03 min

Lab File: VX001789.D

Acq: 17 May 2018 14:39

Instrument :

MSVOA_X

ClientSampleId :

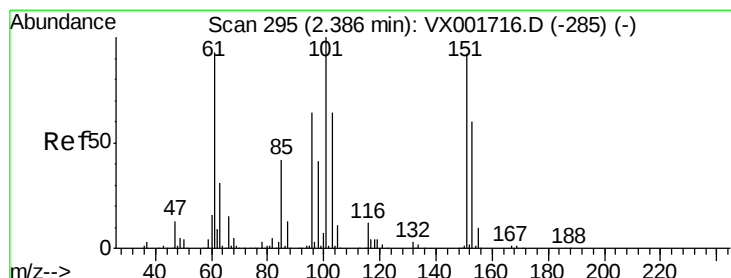
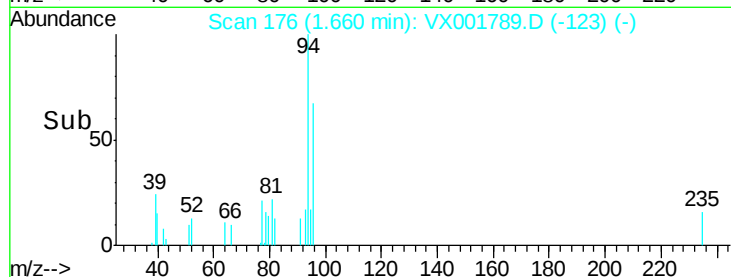
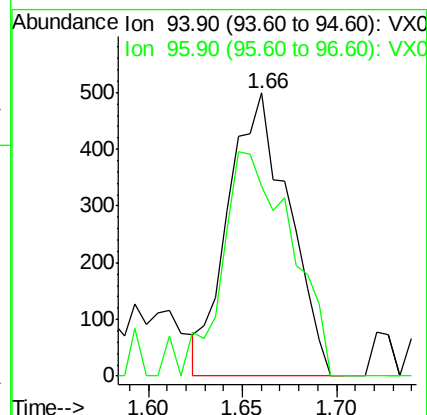
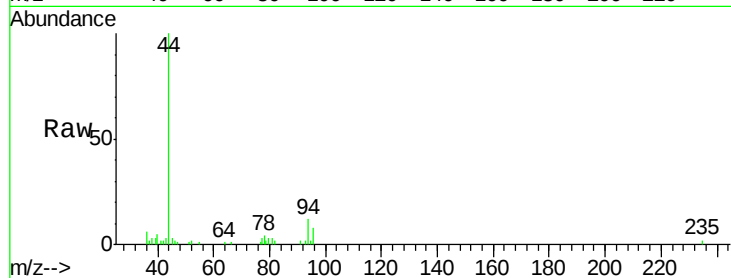
ST008MW026-180507

Tgt Ion: 94 Resp: 1109

Ion Ratio Lower Upper

94 100

96 67.1 77.4 116.0#



#9

1,1,2-Trichlorotrifluoroethane

Concen: 0.85 ug/l

RT: 2.39 min Scan# 295

Delta R.T. 0.00 min

Lab File: VX001789.D

Acq: 17 May 2018 14:39

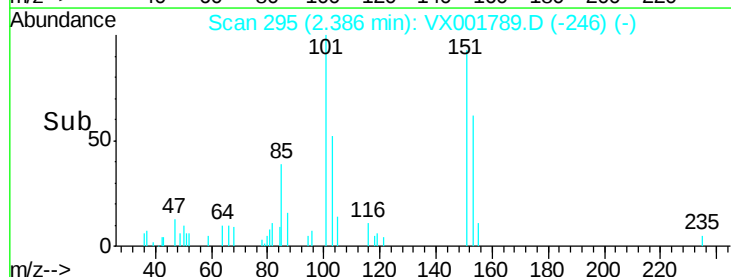
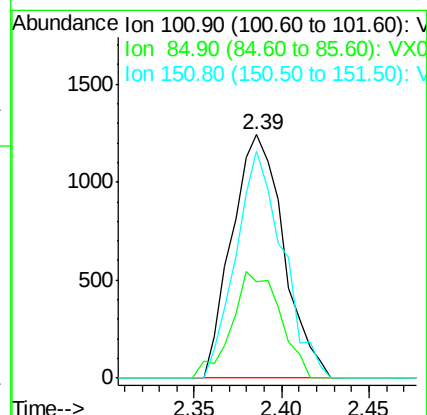
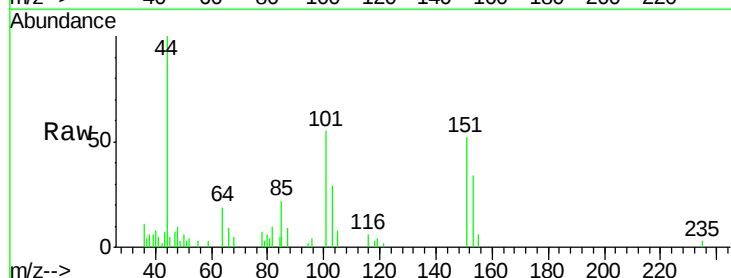
Tgt Ion: 101 Resp: 2554

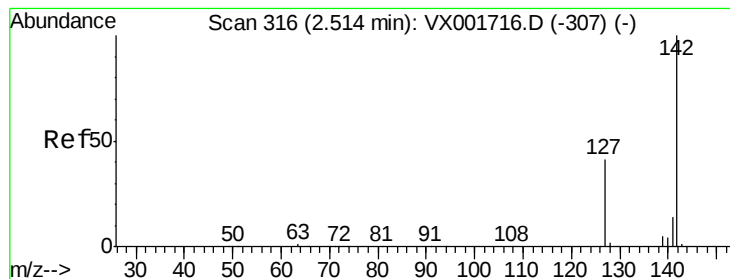
Ion Ratio Lower Upper

101 100

85 40.9 33.7 50.5

151 84.7 73.0 109.6





#10

Methyl Iodide

Concen: 0.49 ug/l

RT: 2.51 min Scan# 316

Delta R.T. 0.00 min

Lab File: VX001789.D

Acq: 17 May 2018 14:39

Instrument :

MSVOA_X

ClientSampleId :

ST008MW026-180507

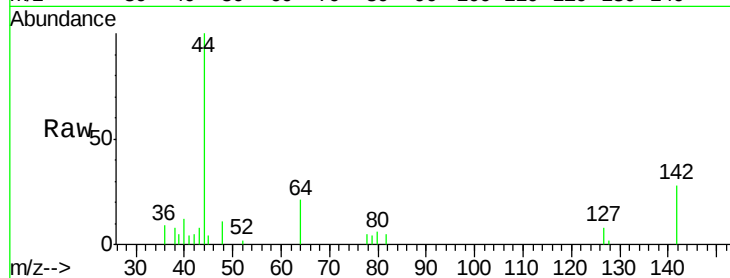
Tgt Ion:142 Resp: 1357

Ion Ratio Lower Upper

142 100

127 31.9 32.5 48.7#

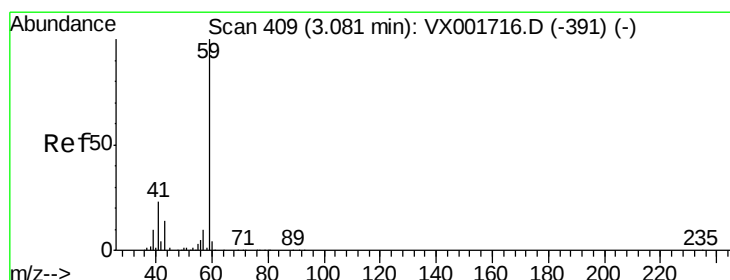
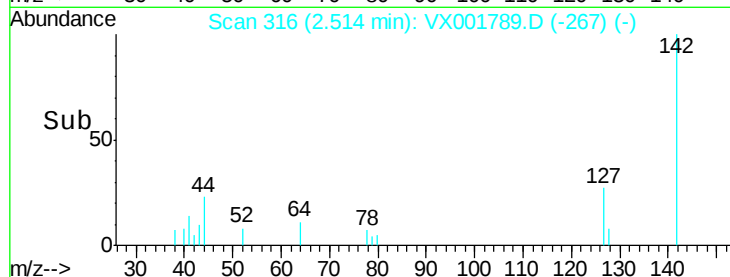
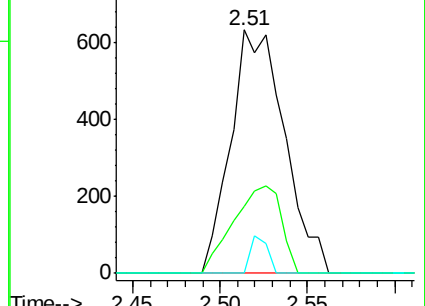
141 4.8 11.4 17.0#



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: 2.47 ug/l

RT: 3.03 min Scan# 400

Delta R.T. -0.05 min

Lab File: VX001789.D

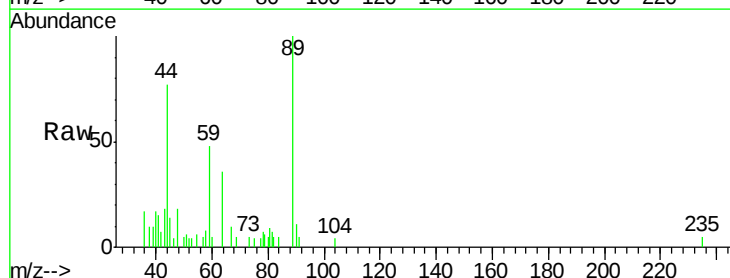
Acq: 17 May 2018 14:39

Tgt Ion: 59 Resp: 1726

Ion Ratio Lower Upper

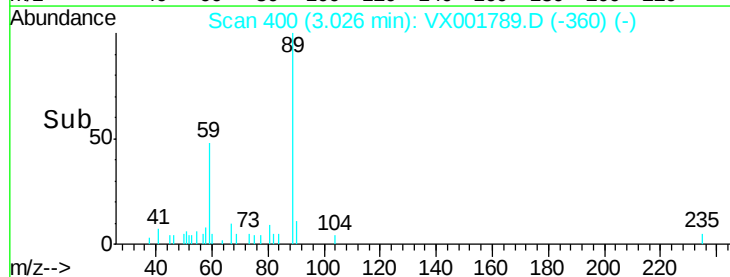
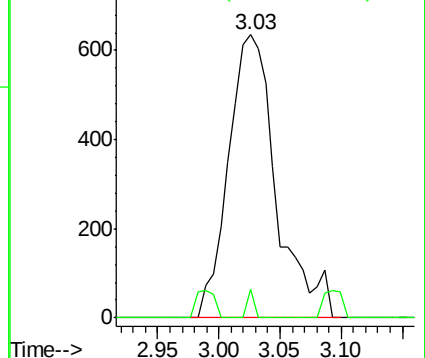
59 100

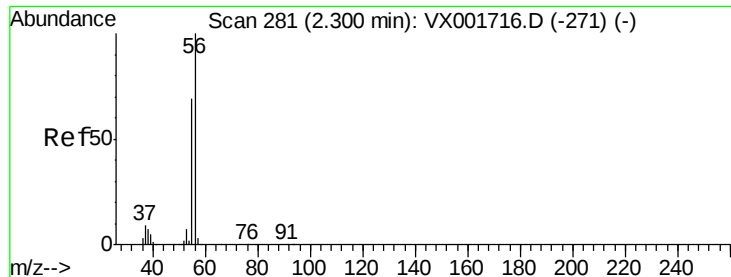
57 1.3 8.5 12.7#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: 0.21 ug/l

RT: 2.31 min Scan# 282

Delta R.T. 0.01 min

Lab File: VX001789.D

Acq: 17 May 2018 14:39

Instrument :

MSVOA_X

ClientSampleId :

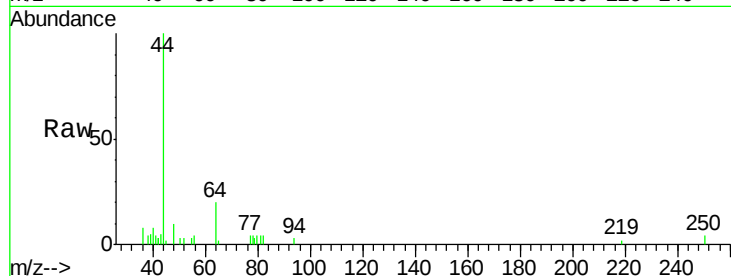
ST008MW026-180507

Tgt Ion: 56 Resp: 102

Ion Ratio Lower Upper

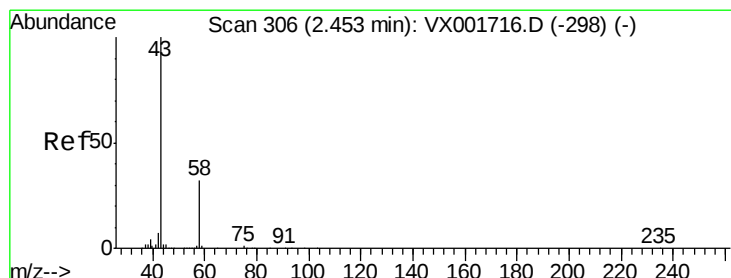
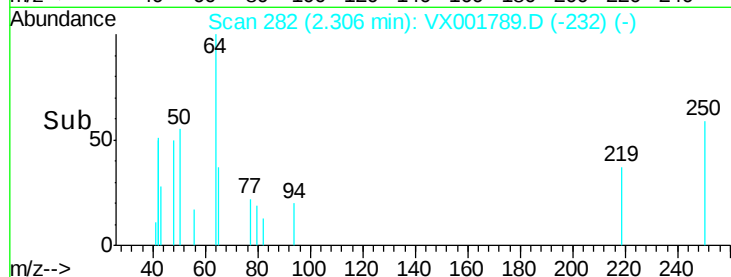
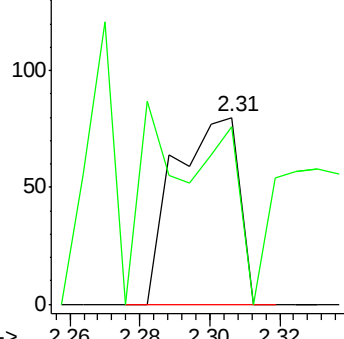
56 100

55 0.0 56.2 84.2#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#16

Acetone

Concen: 0.71 ug/l

RT: 2.45 min Scan# 305

Delta R.T. -0.01 min

Lab File: VX001789.D

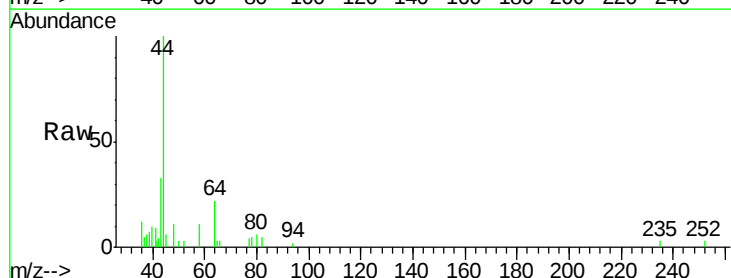
Acq: 17 May 2018 14:39

Tgt Ion: 43 Resp: 1096

Ion Ratio Lower Upper

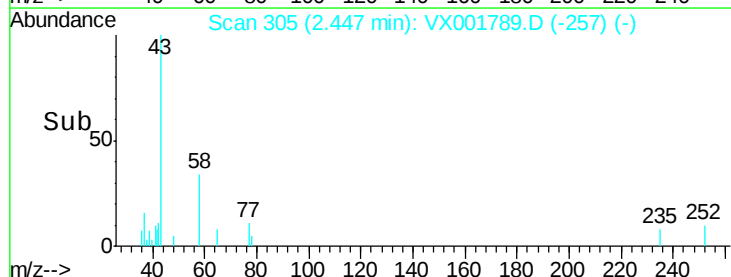
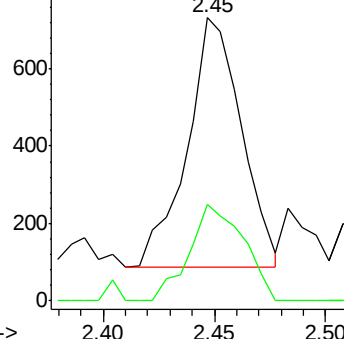
43 100

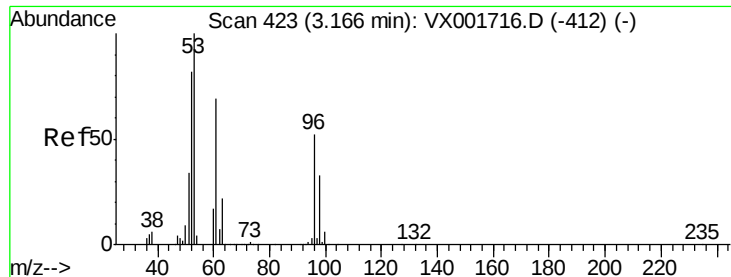
58 38.4 25.3 37.9#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#21

trans-1,2-Dichloroethene

Concen: 0.25 ug/l

RT: 3.16 min Scan# 422

Delta R.T. -0.01 min

Lab File: VX001789.D

Acq: 17 May 2018 14:39

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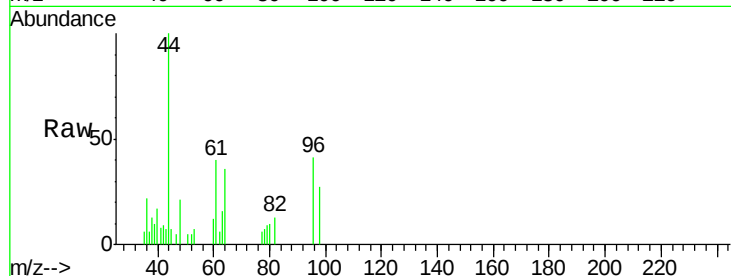
Tgt Ion: 96 Resp: 791

Ion Ratio Lower Upper

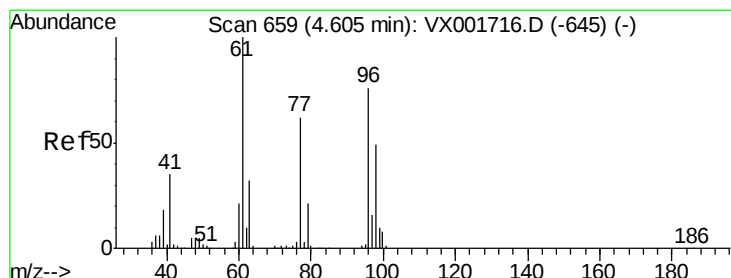
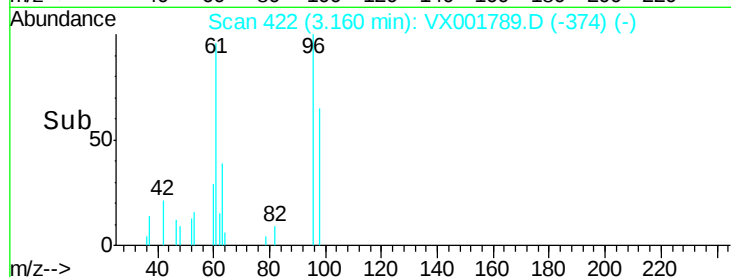
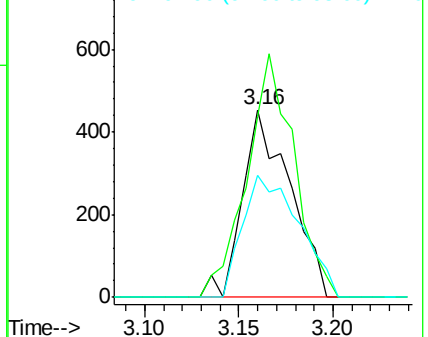
96 100

61 96.5 105.8 158.8#

98 65.2 50.2 75.4



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



#27

cis-1,2-Dichloroethene

Concen: 18.23 ug/l

RT: 4.60 min Scan# 659

Delta R.T. 0.00 min

Lab File: VX001789.D

Acq: 17 May 2018 14:39

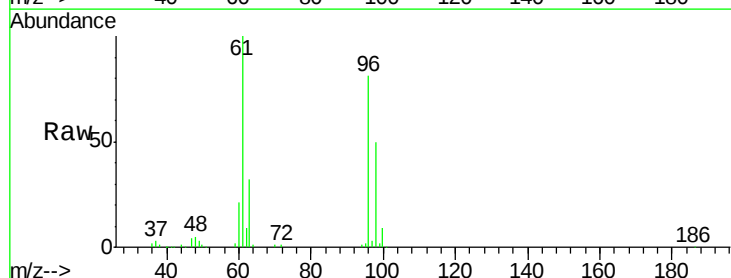
Tgt Ion: 96 Resp: 66418

Ion Ratio Lower Upper

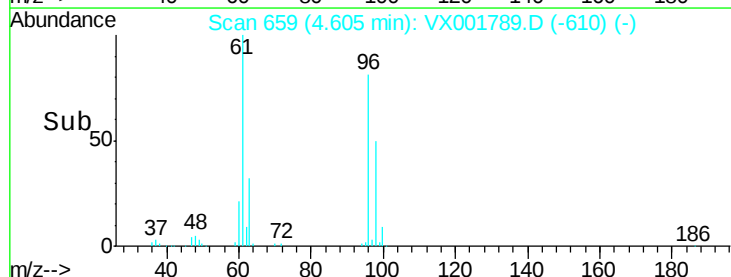
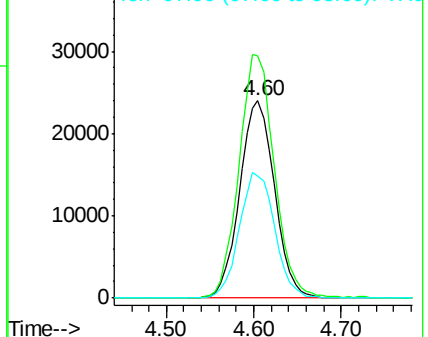
96 100

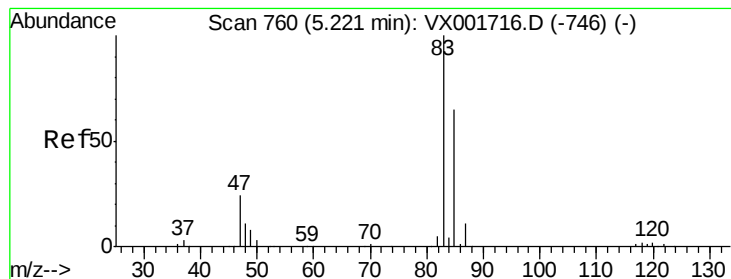
61 126.0 0.0 280.4

98 64.6 0.0 128.4



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





#30

Chloroform

Concen: 0.24 ug/l

RT: 5.21 min Scan# 759

Delta R.T. -0.01 min

Lab File: VX001789.D

Acq: 17 May 2018 14:39

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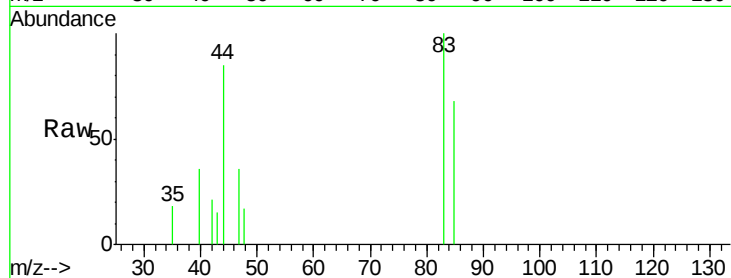
ST008MW026-180507

Tgt Ion: 83 Resp: 1420

Ion Ratio Lower Upper

83 100

85 67.9 52.3 78.5



Abundance Ion 82.90 (82.60 to 83.60): VX0

Ion 84.90 (84.60 to 85.60): VX0

5.21

400

300

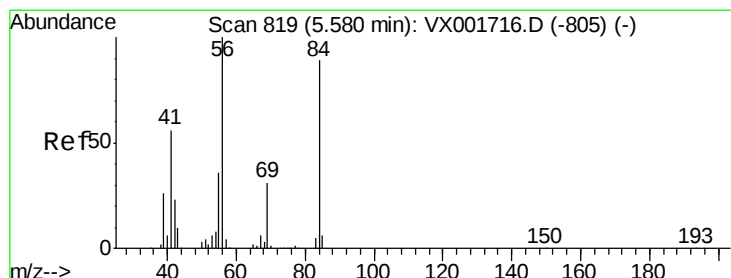
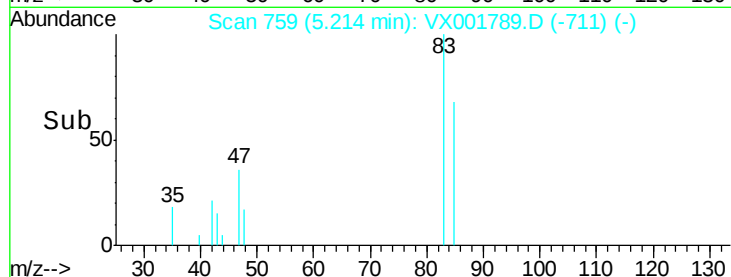
200

100

0

5.15 5.20 5.25 5.30

Time-->



#31

Cyclohexane

Concen: 0.90 ug/l

RT: 5.67 min Scan# 834

Delta R.T. 0.09 min

Lab File: VX001789.D

Acq: 17 May 2018 14:39

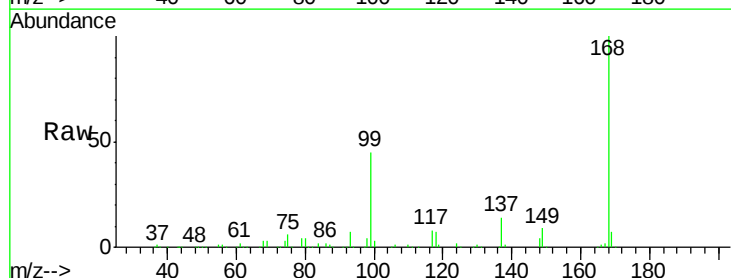
Tgt Ion: 56 Resp: 4482

Ion Ratio Lower Upper

56 100

69 174.4 25.0 37.6#

84 152.1 71.0 106.4#



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

3000

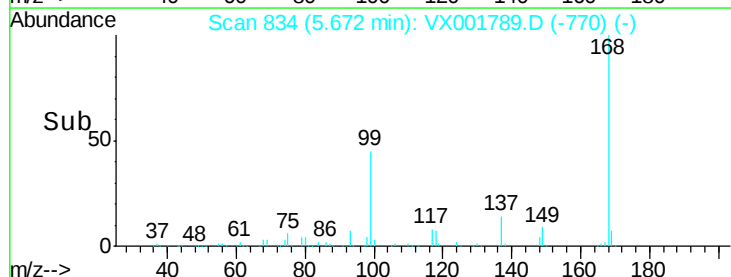
2000

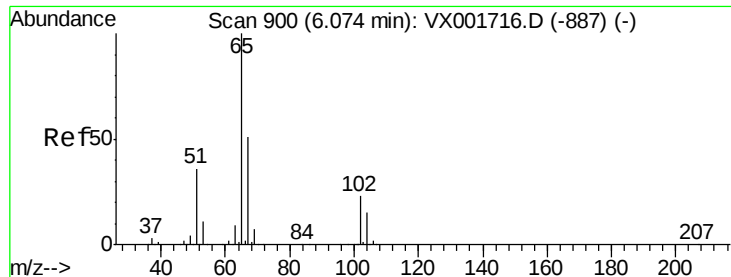
1000

0

5.60 5.67 5.80

Time-->





#33

1,2-Dichloroethane-d4

Concen: 52.71 ug/l

RT: 6.07 min Scan# 900

Delta R.T. 0.00 min

Lab File: VX001789.D

Acq: 17 May 2018 14:39

Instrument :

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ClientSampleId :

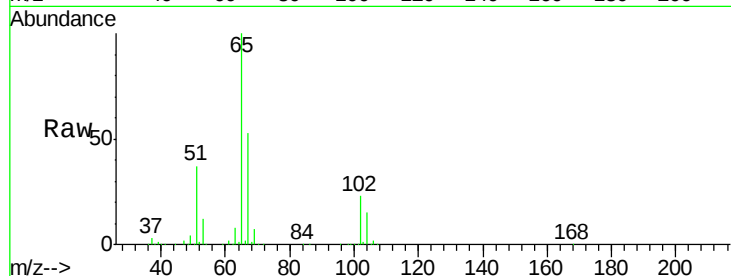
ST008MW026-180507

Tgt Ion: 65 Resp: 207706

Ion Ratio Lower Upper

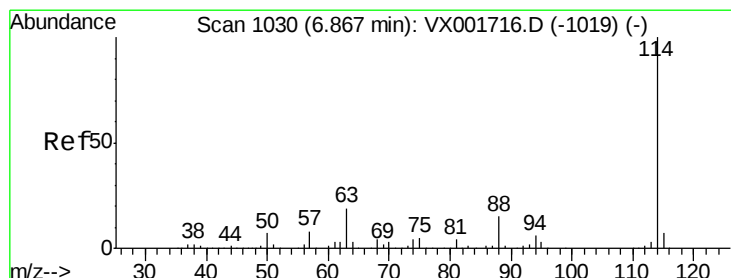
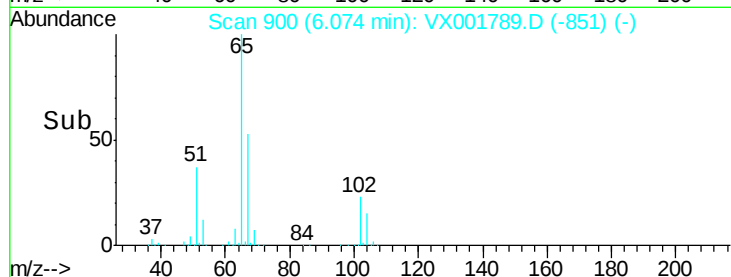
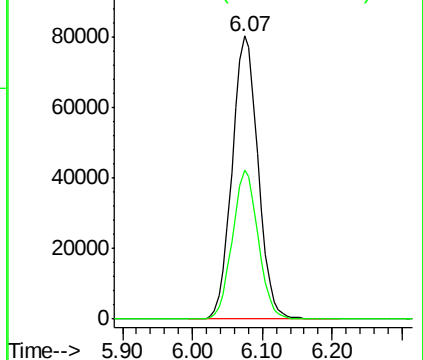
65 100

67 52.2 0.0 102.8



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0



#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 6.87 min Scan# 1030

Delta R.T. 0.00 min

Lab File: VX001789.D

Acq: 17 May 2018 14:39

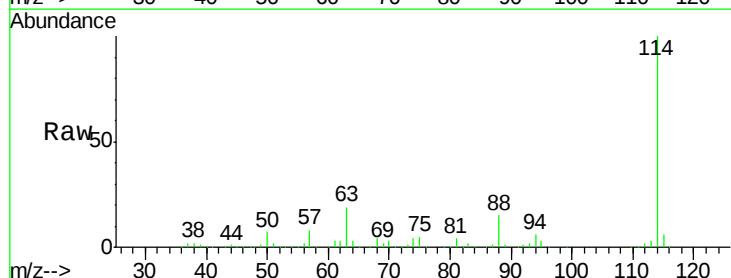
Tgt Ion: 114 Resp: 397444

Ion Ratio Lower Upper

114 100

63 18.9 0.0 37.0

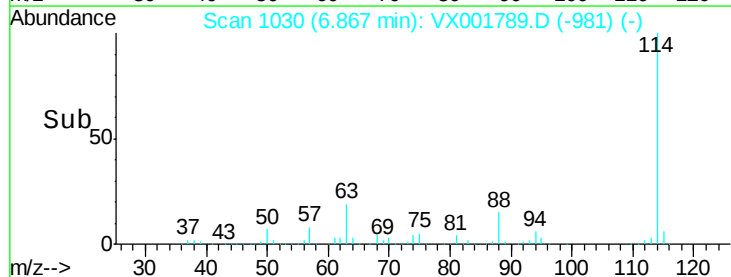
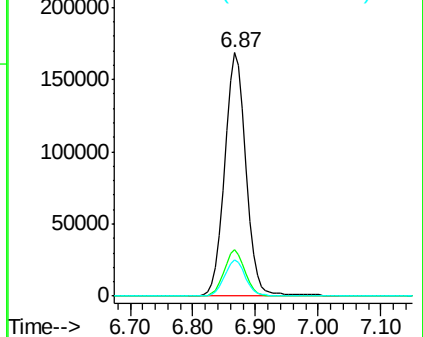
88 14.8 0.0 29.8

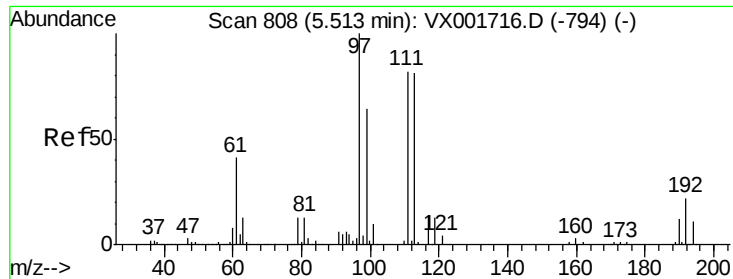


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0

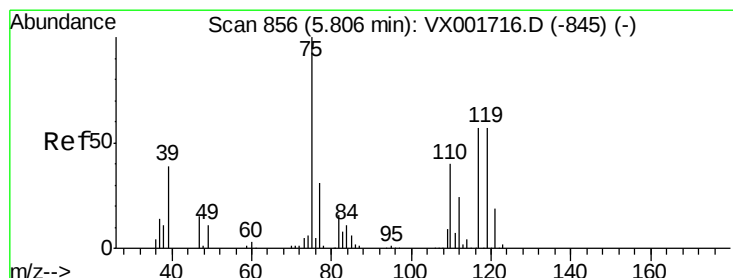
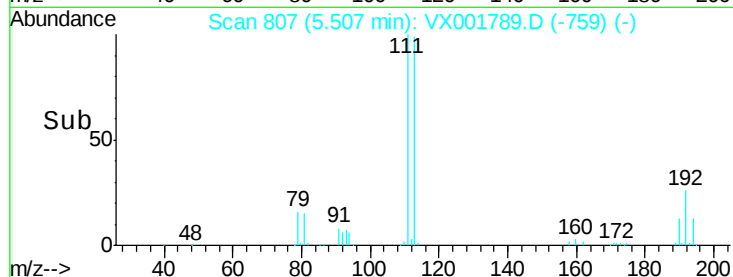
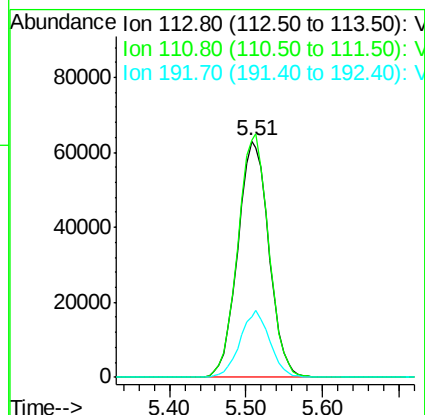
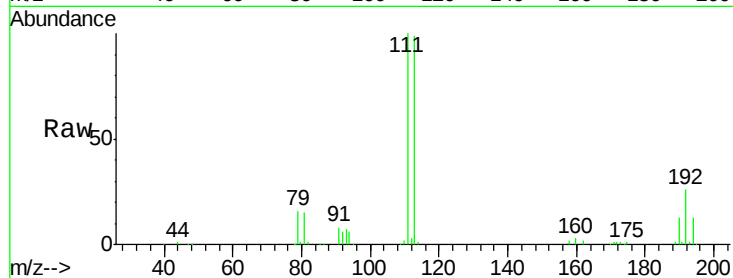




#35
 Dibromofluoromethane
 Concen: 53.04 ug/l
 RT: 5.51 min Scan# 807
 Delta R.T. -0.01 min
 Lab File: VX001789.D
 Acq: 17 May 2018 14:39

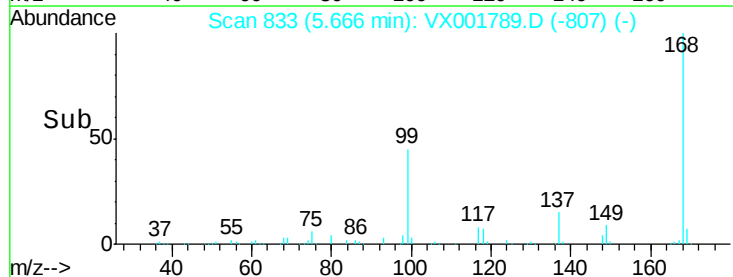
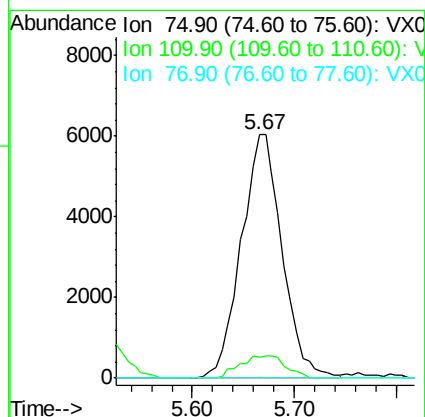
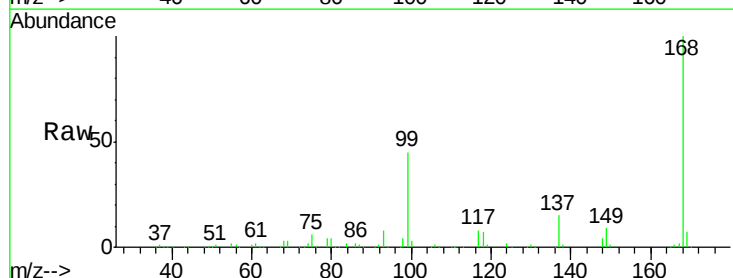
Instrument :
 MSVOA_X
 ClientSampleId :
 ST008MW026-180507

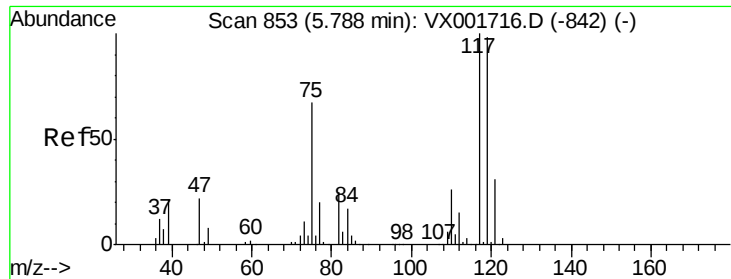
Tgt Ion:113 Resp: 177884
 Ion Ratio Lower Upper
 113 100
 111 102.0 82.0 123.0
 192 27.0 21.6 32.4



#36
 1,1-Dichloropropene
 Concen: 3.67 ug/l
 RT: 5.67 min Scan# 833
 Delta R.T. -0.14 min
 Lab File: VX001789.D
 Acq: 17 May 2018 14:39

Tgt Ion: 75 Resp: 16799
 Ion Ratio Lower Upper
 75 100
 110 10.1 19.1 57.1#
 77 0.0 24.6 37.0#





#38

Carbon Tetrachloride

Concen: 5.05 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.12 min

Lab File: VX001789.D

Acq: 17 May 2018 14:39

Instrument :

MSVOA_X

ClientSampleId :

ST008MW026-180507

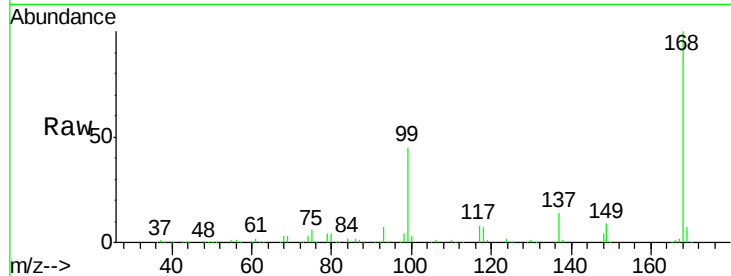
Tgt Ion:117 Resp: 24222

Ion Ratio Lower Upper

117 100

119 6.1 77.6 116.4#

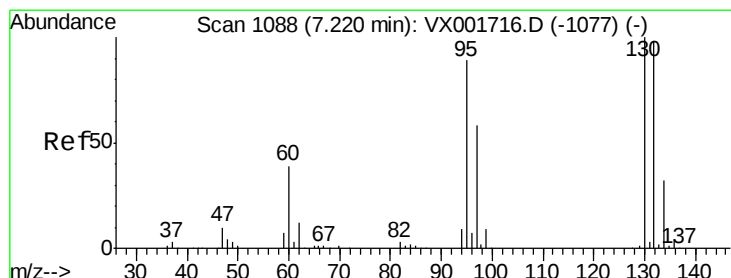
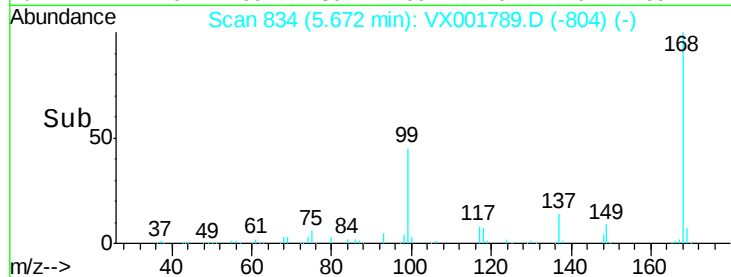
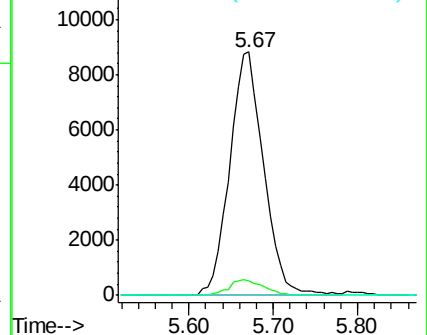
121 0.0 24.6 36.8#



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



#44

Trichloroethene

Concen: 4.08 ug/l

RT: 7.22 min Scan# 1088

Delta R.T. 0.00 min

Lab File: VX001789.D

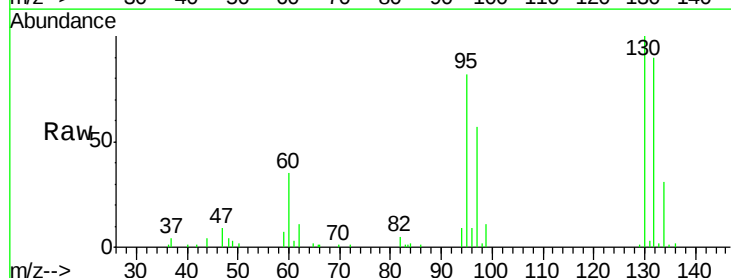
Acq: 17 May 2018 14:39

Tgt Ion:130 Resp: 17074

Ion Ratio Lower Upper

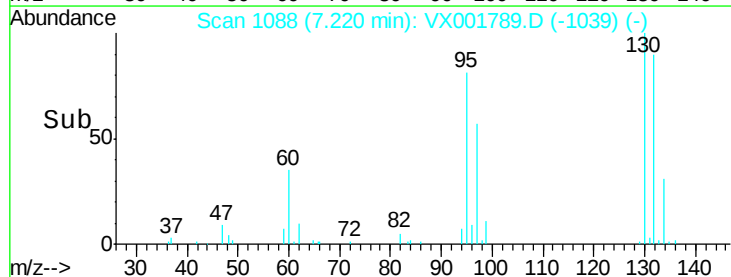
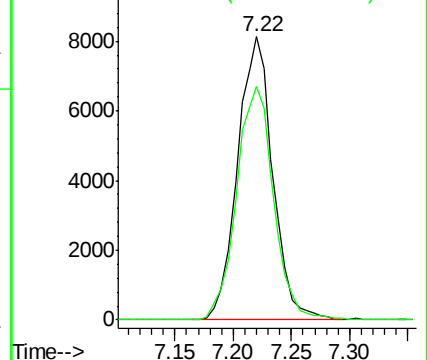
130 100

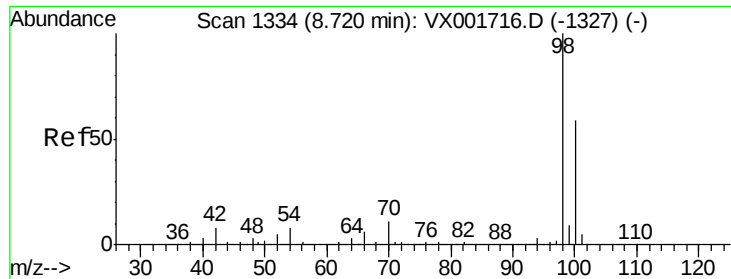
95 82.4 0.0 177.2



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

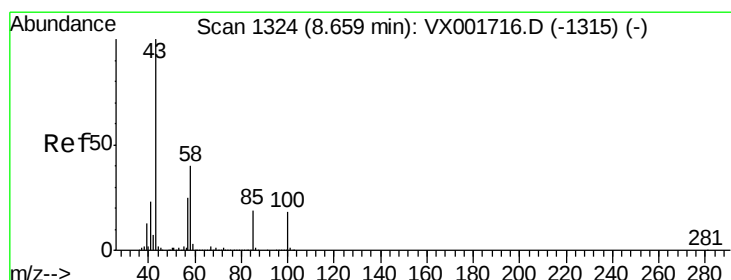
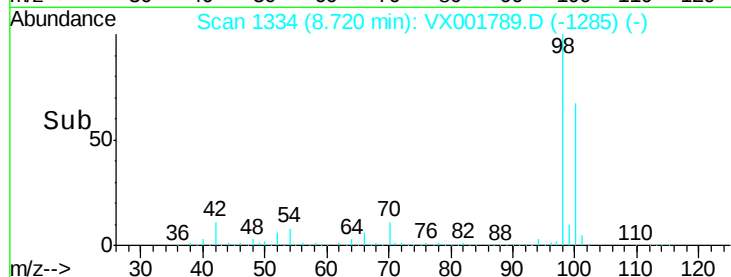
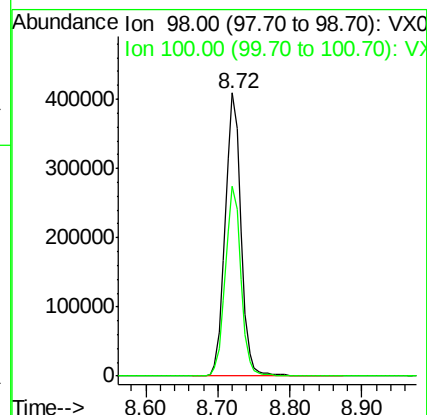
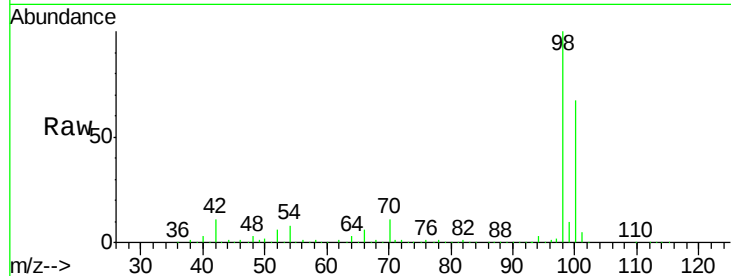




#50
Toluene-d8
Concen: 51.88 ug/l
RT: 8.72 min Scan# 1334
Delta R.T. 0.00 min
Lab File: VX001789.D
Acq: 17 May 2018 14:39

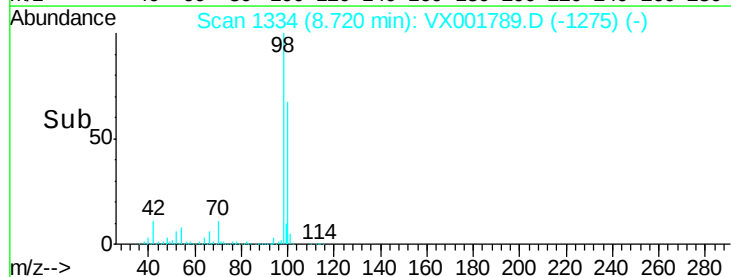
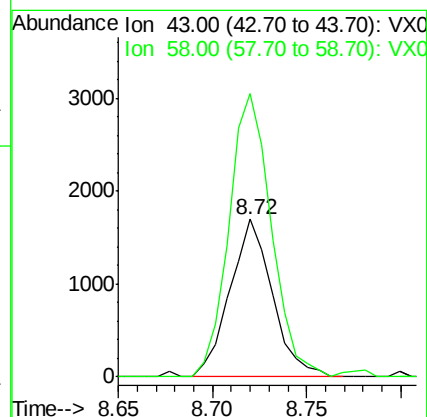
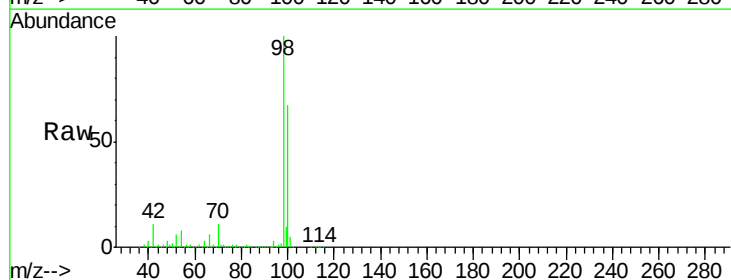
Instrument :
MSVOA_X
ClientSampleId :
ST008MW026-180507

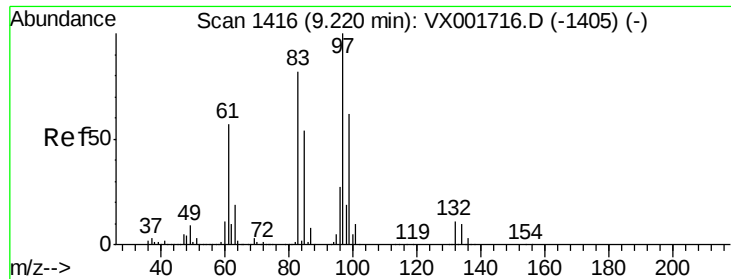
Tgt Ion: 98 Resp: 623182
Ion Ratio Lower Upper
98 100
100 66.6 54.0 81.0



#51
4-Methyl-2-Pentanone
Concen: 0.56 ug/l
RT: 8.72 min Scan# 1334
Delta R.T. 0.06 min
Lab File: VX001789.D
Acq: 17 May 2018 14:39

Tgt Ion: 43 Resp: 2661
Ion Ratio Lower Upper
43 100
58 178.0 31.4 47.0#

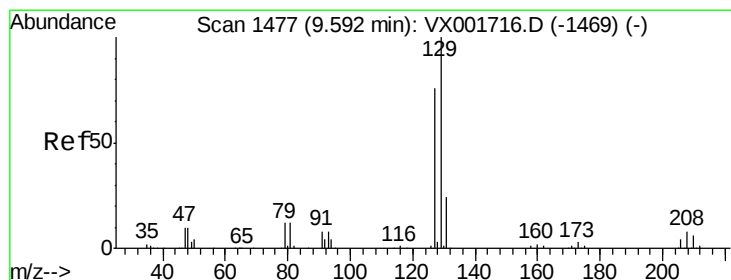
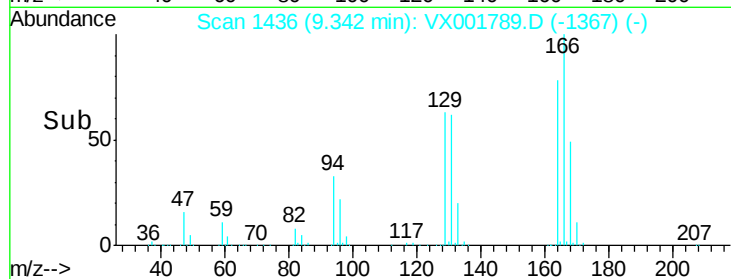
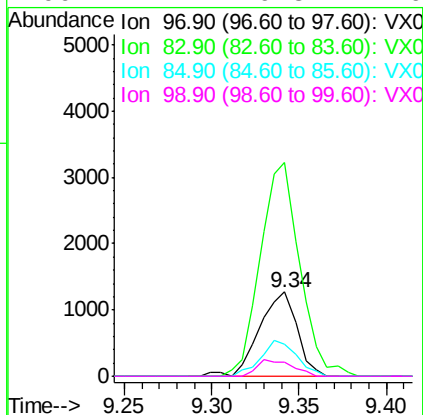
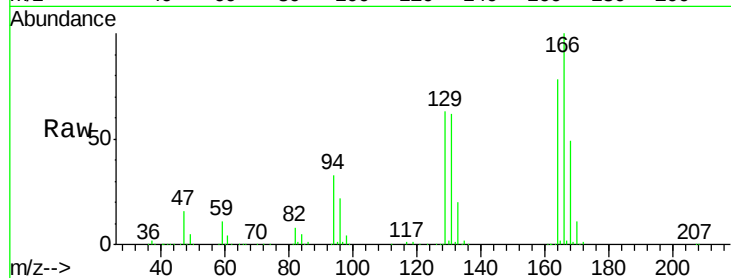




#55
 1,1,2-Trichloroethane
 Concen: 0.57 ug/l
 RT: 9.34 min Scan# 1436
 Delta R.T. 0.12 min
 Lab File: VX001789.D
 Acq: 17 May 2018 14:39

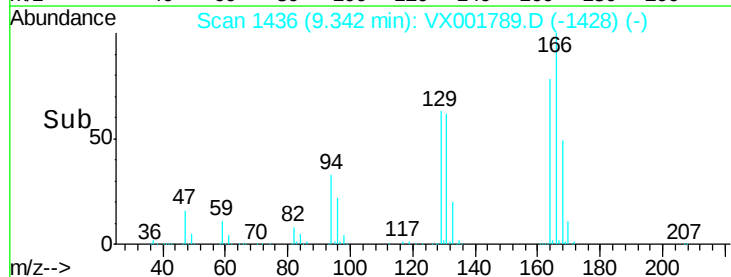
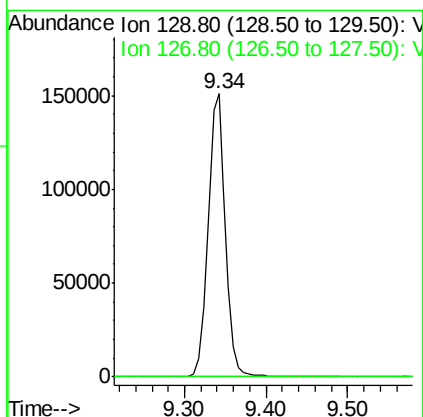
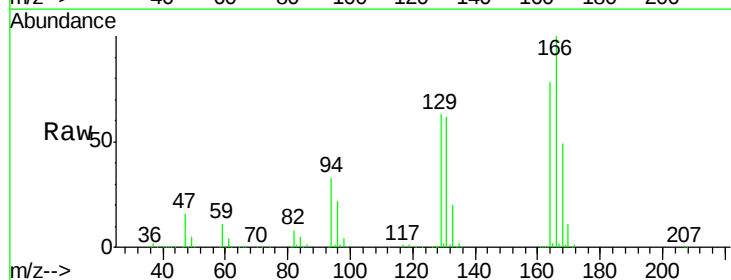
Instrument :
 MSVOA_X
 ClientSampleId :
 ST008MW026-180507

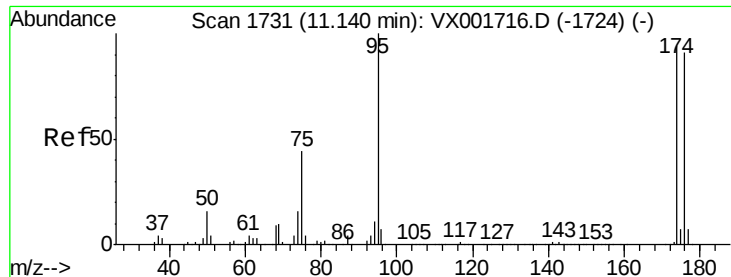
Tgt Ion: 97 Resp: 1891
 Ion Ratio Lower Upper
 97 100
 83 254.4 65.8 98.8#
 85 38.1 43.4 65.0#
 99 17.1 49.8 74.6#



#60
 Dibromochloromethane
 Concen: 66.22 ug/l
 RT: 9.34 min Scan# 1436
 Delta R.T. -0.25 min
 Lab File: VX001789.D
 Acq: 17 May 2018 14:39

Tgt Ion: 129 Resp: 224515
 Ion Ratio Lower Upper
 129 100
 127 0.1 38.7 116.1#





#62

4-Bromofluorobenzene

Concen: 41.35 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.00 min

Lab File: VX001789.D

Acq: 17 May 2018 14:39

Instrument :

MSVOA_X

ClientSampleId :

ST008MW026-180507

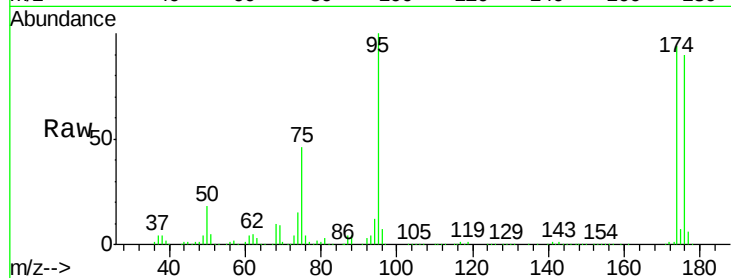
Tgt Ion: 95 Resp: 178840

Ion Ratio Lower Upper

95 100

174 102.0 0.0 201.8

176 98.3 0.0 196.8



Abundance Ion 94.90 (94.60 to 95.60): VX001716.D (-1724) (-)

Ion 173.80 (173.50 to 174.50): VX001716.D (-1724) (-)

Ion 175.80 (175.50 to 176.50): VX001716.D (-1724) (-)

11.14

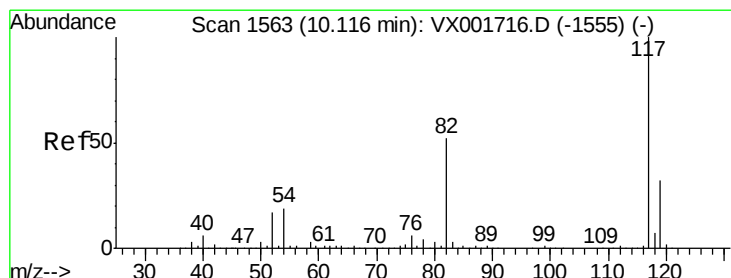
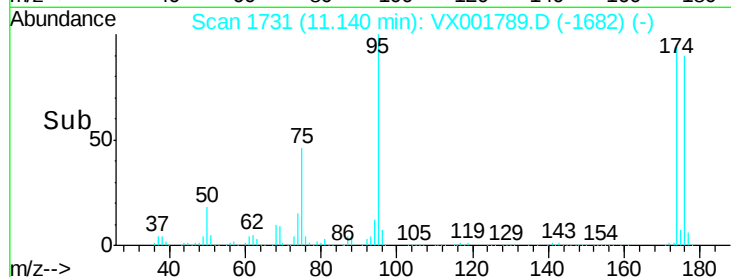
150000

100000

50000

0

Time-->



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 10.12 min Scan# 1563

Delta R.T. 0.00 min

Lab File: VX001789.D

Acq: 17 May 2018 14:39

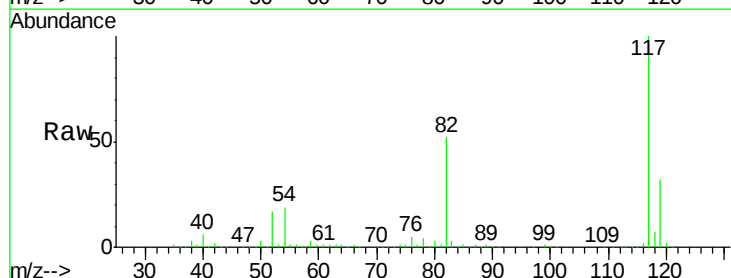
Tgt Ion: 117 Resp: 320087

Ion Ratio Lower Upper

117 100

82 52.1 41.4 62.2

119 32.0 25.6 38.4



Abundance Ion 116.90 (116.60 to 117.60): VX001716.D (-1555) (-)

Ion 82.00 (81.70 to 82.70): VX001716.D (-1555) (-)

Ion 118.90 (118.60 to 119.60): VX001716.D (-1555) (-)

10.12

300000

250000

200000

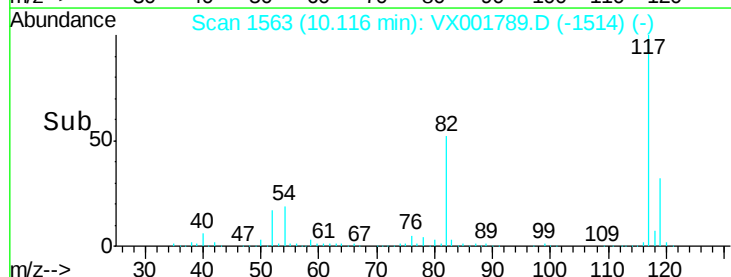
150000

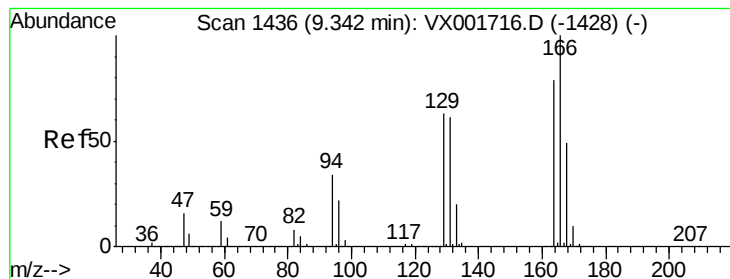
100000

50000

0

Time-->





#64

Tetrachloroethene

Concen: 65.34 ug/l

RT: 9.34 min Scan# 1436

Delta R.T. 0.00 min

Lab File: VX001789.D

Acq: 17 May 2018 14:39

Instrument :

MSVOA_X

ClientSampleId :

ST008MW026-180507

Tgt Ion:164 Resp: 272271

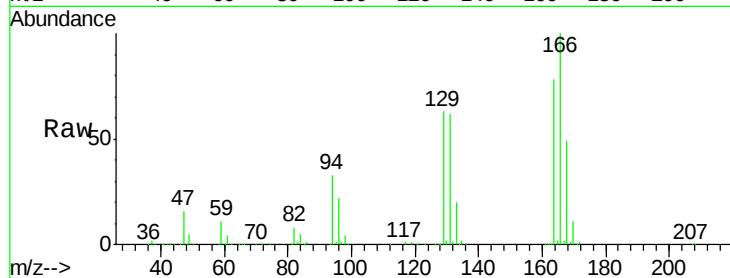
Ion Ratio Lower Upper

164 100

166 127.4 101.8 152.8

129 80.8 63.8 95.6

131 79.1 62.2 93.2

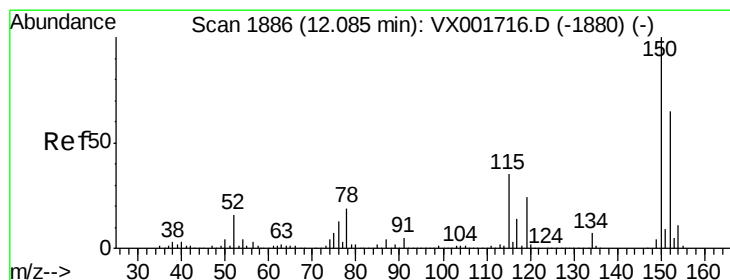
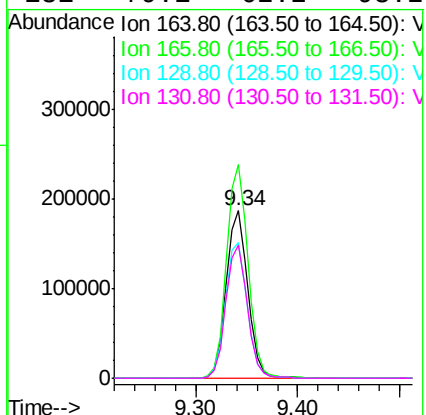
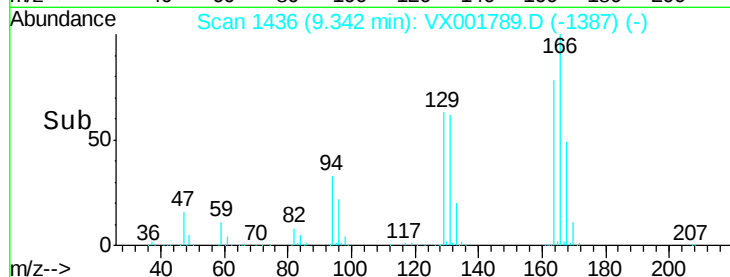


Abundance Ion 163.80 (163.50 to 164.50): V

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



#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.09 min Scan# 1886

Delta R.T. 0.00 min

Lab File: VX001789.D

Acq: 17 May 2018 14:39

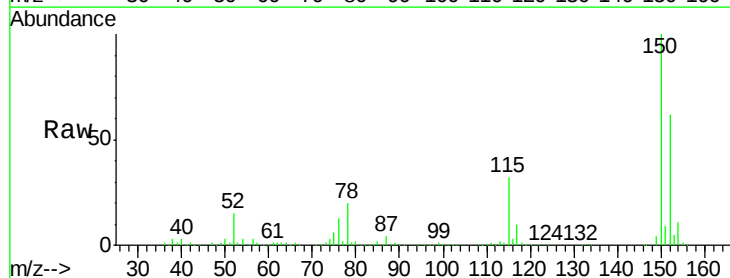
Tgt Ion:152 Resp: 159836

Ion Ratio Lower Upper

152 100

115 51.5 37.4 112.2

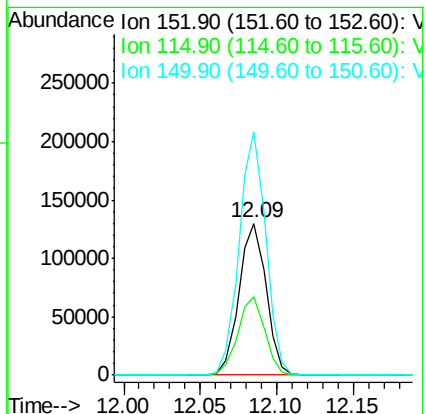
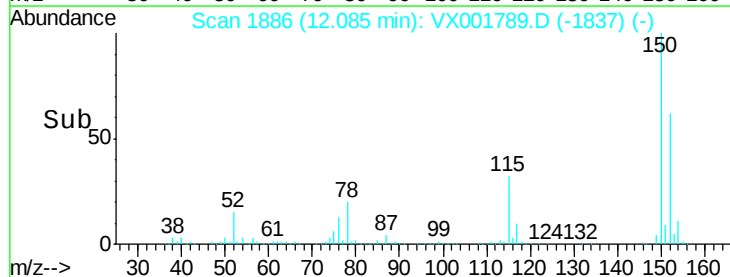
150 157.6 0.0 344.8

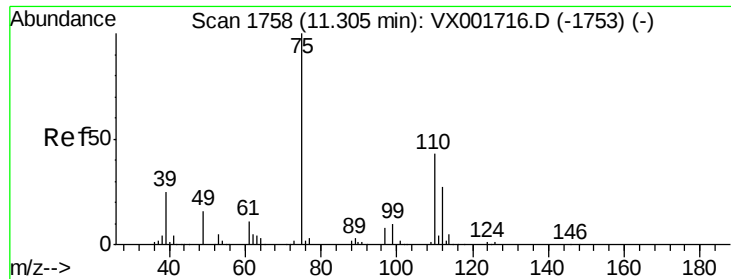


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V

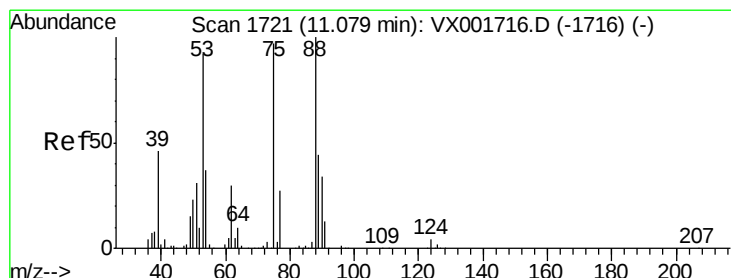
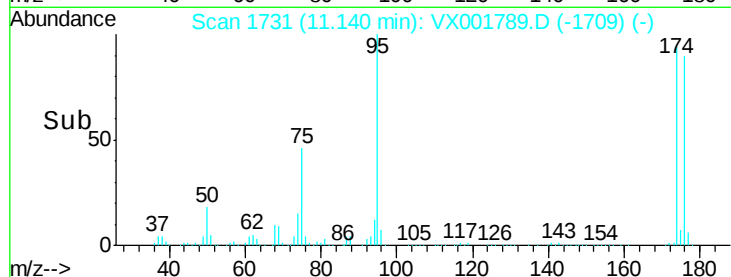
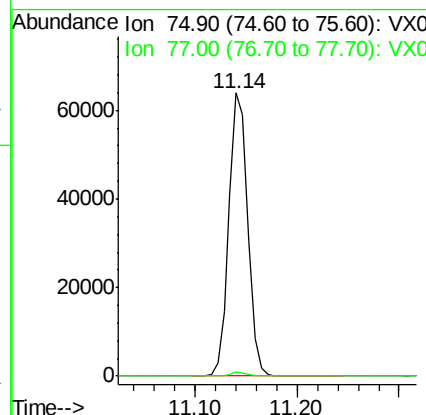
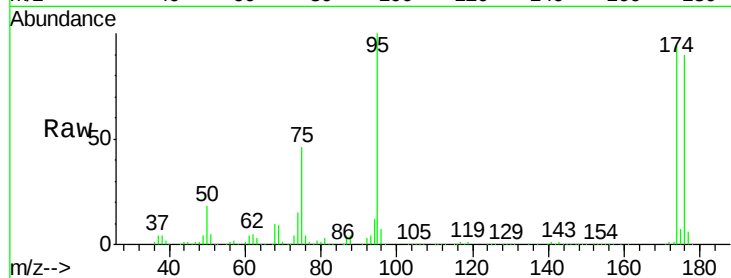




#76
 1,2,3-Trichloropropane
 Concen: 27.01 ug/l
 RT: 11.14 min Scan# 1731
 Delta R.T. -0.16 min
 Lab File: VX001789.D
 Acq: 17 May 2018 14:39

Instrument :
 MSVOA_X
 ClientSampleId :
 ST008MW026-180507

Tgt Ion: 75 Resp: 82098
 Ion Ratio Lower Upper
 75 100
 77 1.3 18.9 56.7#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 78.48 ug/l
 RT: 11.14 min Scan# 1731
 Delta R.T. 0.06 min
 Lab File: VX001789.D
 Acq: 17 May 2018 14:39

Tgt Ion: 75 Resp: 82098
 Ion Ratio Lower Upper
 75 100
 53 0.1 79.4 119.2#
 89 0.0 38.8 58.2#

