

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX052319\
 Data File : VX009861.D
 Acq On : 23 May 2019 16:17
 Operator : JC/SP
 Sample : K2999-03
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 OUTFALL001-190521

Quant Time: May 24 03:51:59 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X042919W.M
 Quant Title : SW846 8260
 QLast Update : Thu May 09 07:31:15 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	175080	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	279353	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	244798	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	99671	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.06	65	119268	49.90	ug/l	0.00
Spiked Amount			Recovery	=	99.80%	
35) Dibromofluoromethane	5.50	113	86022	48.98	ug/l	0.00
Spiked Amount			Recovery	=	97.96%	
50) Toluene-d8	8.71	98	357446	50.42	ug/l	0.00
Spiked Amount			Recovery	=	100.84%	
62) 4-Bromofluorobenzene	11.13	95	115799	44.95	ug/l	0.00
Spiked Amount			Recovery	=	89.90%	

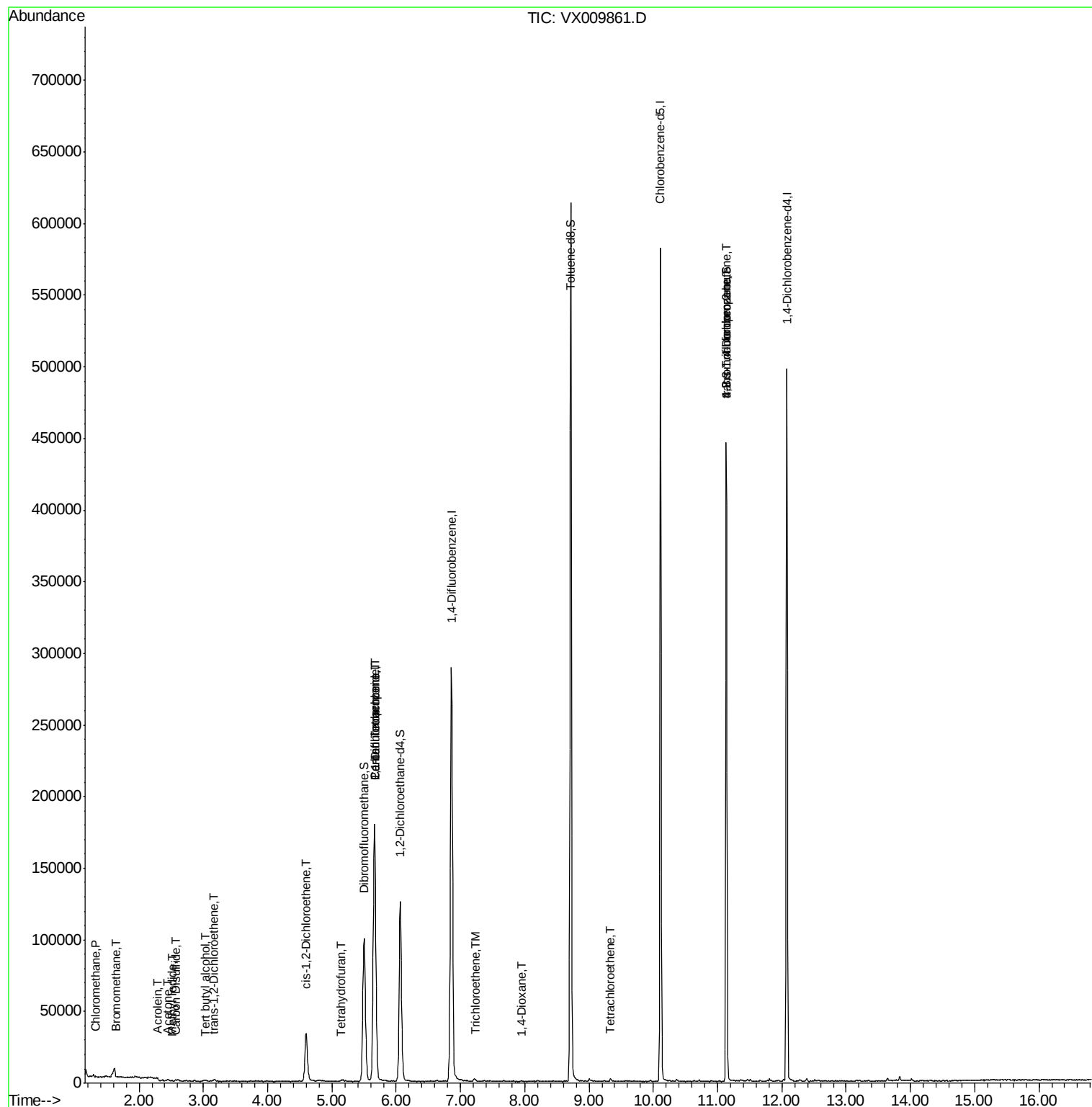
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	448	0.203	ug/l	89
5) Bromomethane	1.64	94	599	0.465	ug/l	82
10) Methyl Iodide	2.53	142	379	4.775	ug/l #	80
11) Tert butyl alcohol	3.03	59	532	0.962	ug/l #	73
13) Acrolein	2.29	56	313	0.625	ug/l #	79
16) Acetone	2.44	43	1479	1.152	ug/l #	87
17) Carbon Disulfide	2.57	76	1044	0.226	ug/l #	91
21) trans-1,2-Dichloroethene	3.17	96	484	0.272	ug/l #	73
27) cis-1,2-Dichloroethene	4.60	96	20721	9.744	ug/l	93
28) Bromochloromethane	5.02	49	218	Below Cal	#	33
29) Tetrahydrofuran	5.14	42	559	0.436	ug/l #	56
36) 1,1-Dichloropropene	5.66	75	14339	5.523	ug/l #	50
38) Carbon Tetrachloride	5.66	117	16294	6.908	ug/l #	16
44) Trichloroethene	7.23	130	544	0.280	ug/l	76
49) 1,4-Dioxane	7.95	88	22	0.378	ug/l #	1
64) Tetrachloroethene	9.34	164	346	0.206	ug/l #	80
76) 1,2,3-Trichloropropane	11.13	75	60022	25.961	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.13	75	60022	66.425	ug/l #	11

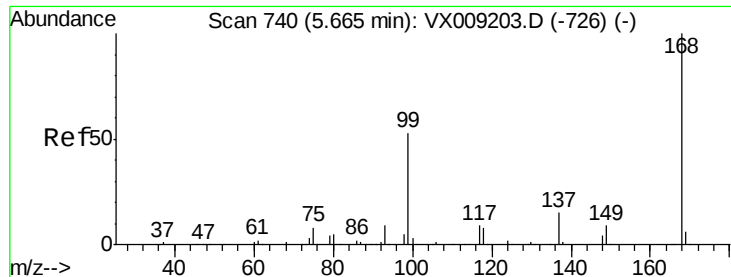
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: May 24 03:51:59 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X042919W.M
Quant Title : SW846 8260
QLast Update : Thu May 09 07:31:15 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 740

Delta R.T. -0.00 min

Lab File: VX009861.D

Acq: 23 May 2019 16:17

Instrument :

MSVOA_X

ClientSampleId :

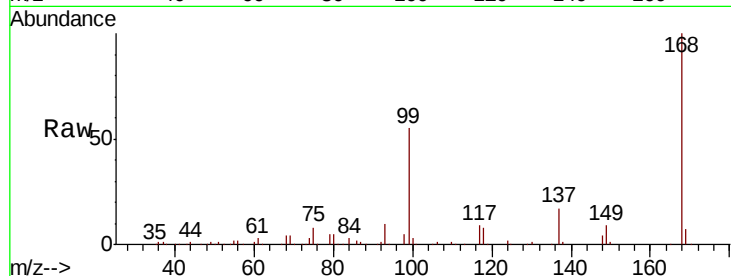
OUTFALL001-190521

Tot Ion:168 Resp: 175080

Ion Ratio Lower Upper

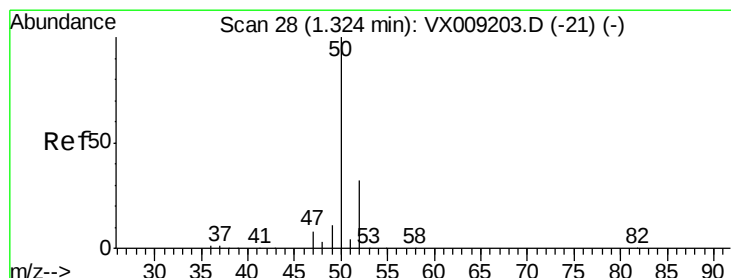
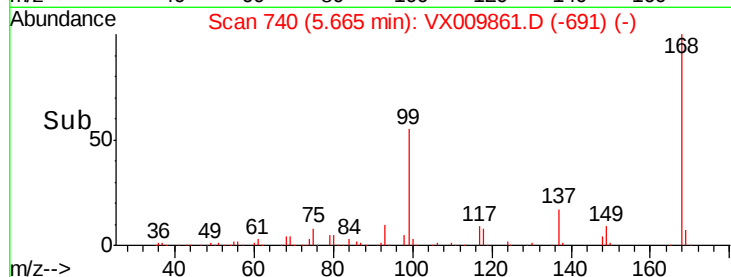
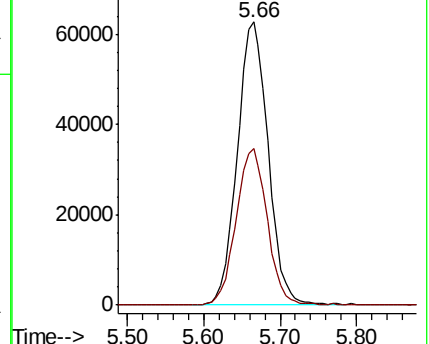
168 100

99 55.2 42.3 63.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#3

Chloromethane

Concen: 0.203 ug/l

RT: 1.32 min Scan# 28

Delta R.T. -0.00 min

Lab File: VX009861.D

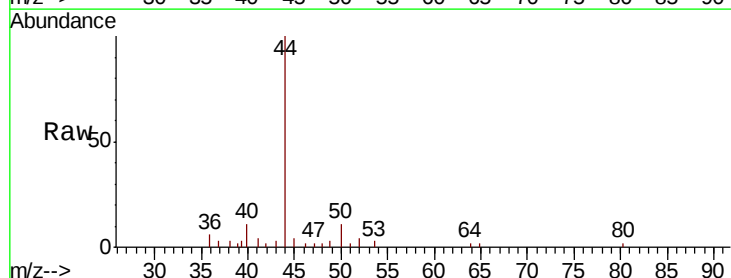
Acq: 23 May 2019 16:17

Tgt Ion: 50 Resp: 448

Ion Ratio Lower Upper

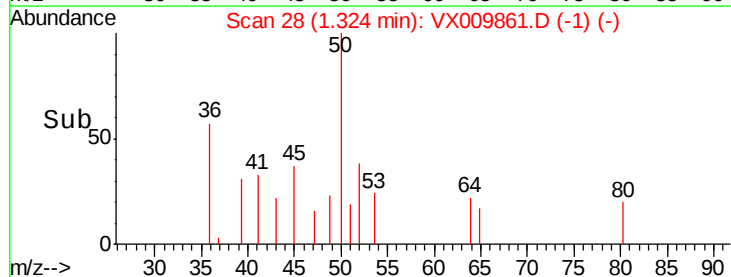
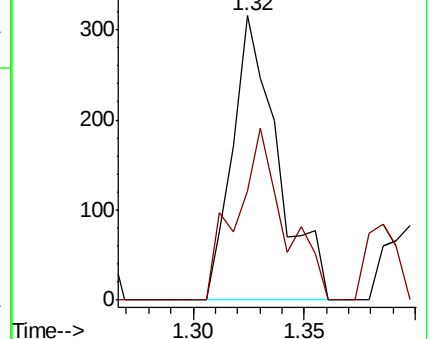
50 100

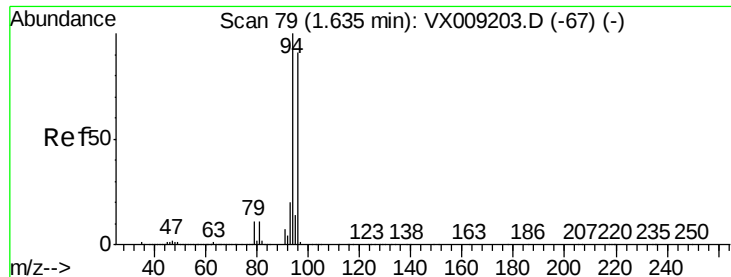
52 38.3 25.9 38.9



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#5

Bromomethane

Concen: 0.465 ug/l

RT: 1.64 min Scan# 80

Delta R.T. 0.01 min

Lab File: VX009861.D

Acq: 23 May 2019 16:17

Instrument :

MSVOA_X

ClientSampleId :

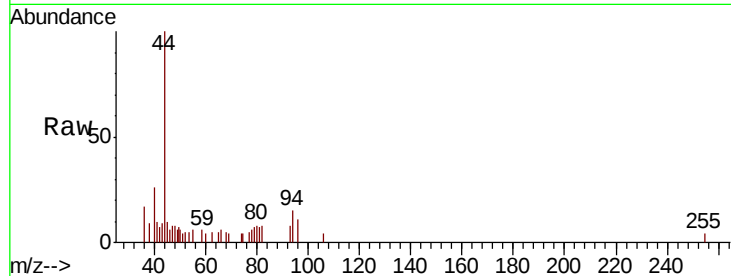
OUTFALL001-190521

Tot Ion: 94 Resp: 599

Ion Ratio Lower Upper

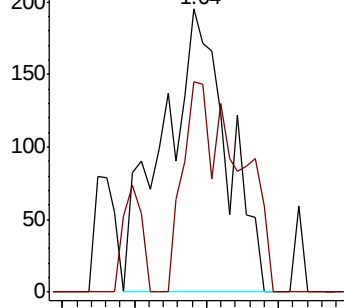
94 100

96 74.4 73.0 109.6

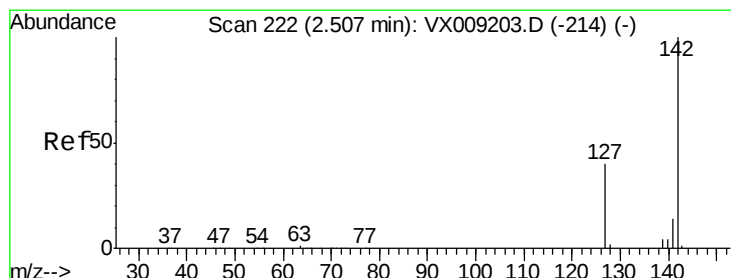
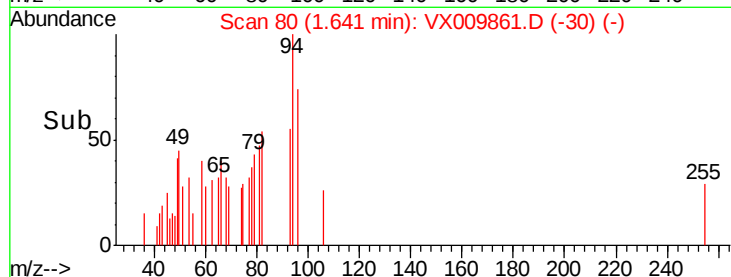


Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



Time-->



#10

Methyl Iodide

Concen: 4.775 ug/l

RT: 2.53 min Scan# 225

Delta R.T. 0.02 min

Lab File: VX009861.D

Acq: 23 May 2019 16:17

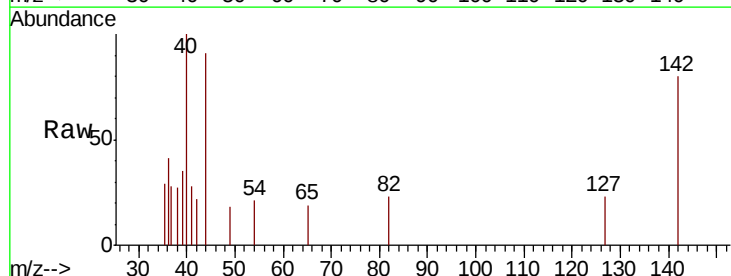
Tgt Ion: 142 Resp: 379

Ion Ratio Lower Upper

142 100

127 31.9 32.7 49.1#

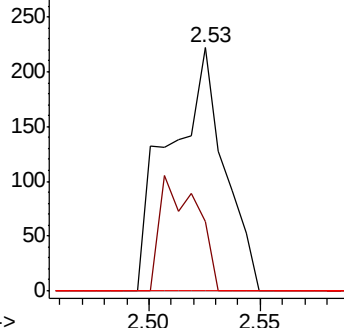
141 0.0 11.5 17.3#



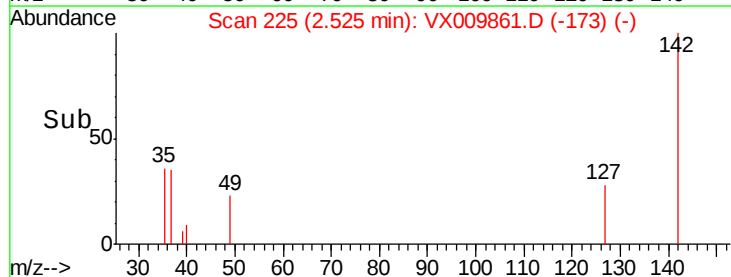
Abundance Ion 141.80 (141.50 to 142.50): V

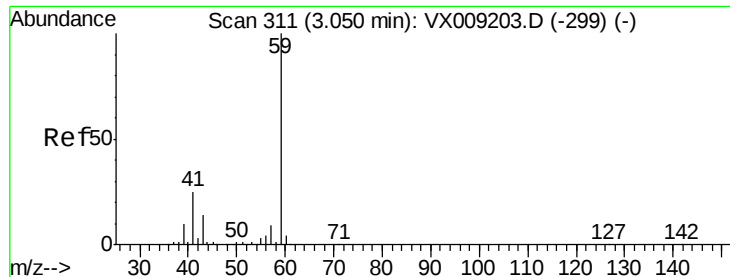
Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



Time-->

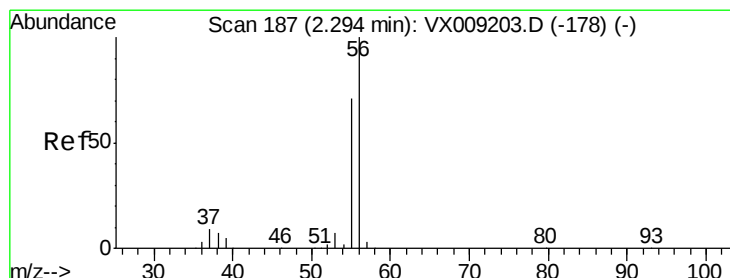
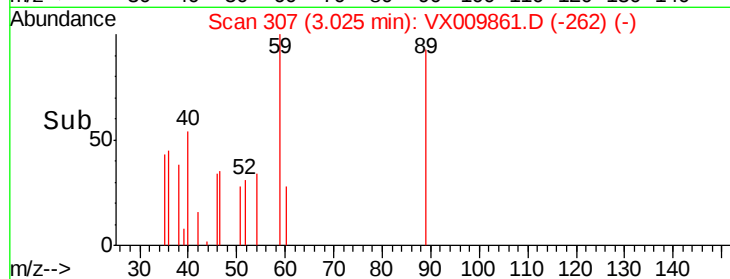
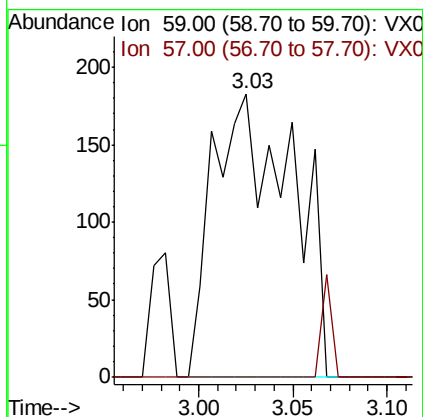
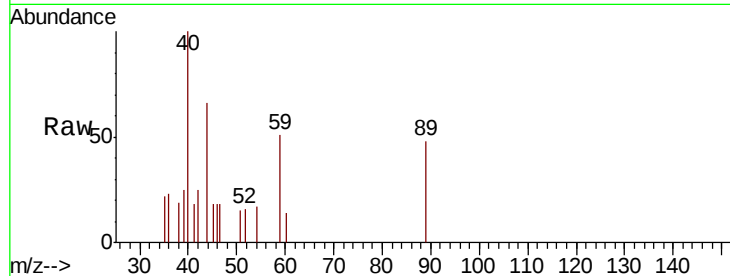




#11
Tert butyl alcohol
Concen: 0.962 ug/l
RT: 3.03 min Scan# 307
Delta R.T. -0.02 min
Lab File: VX009861.D
Acq: 23 May 2019 16:17

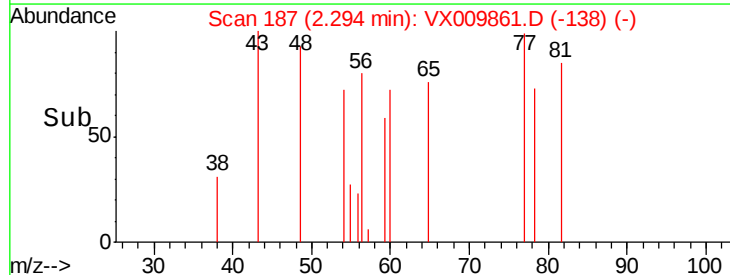
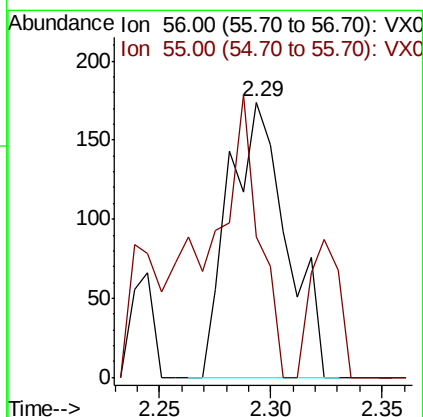
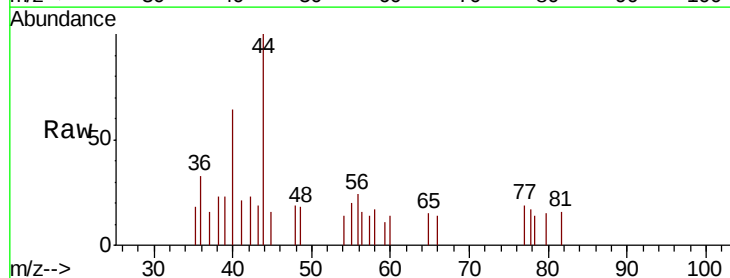
Instrument :
MSVOA_X
ClientSampleId :
OUTFALL001-190521

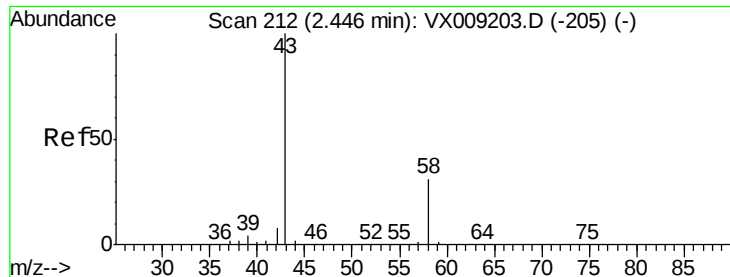
Tot Ion: 59 Resp: 532
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.2#



#13
Acrolein
Concen: 0.625 ug/l
RT: 2.29 min Scan# 187
Delta R.T. -0.00 min
Lab File: VX009861.D
Acq: 23 May 2019 16:17

Tgt Ion: 56 Resp: 313
Ion Ratio Lower Upper
56 100
55 88.5 56.6 85.0#





#16

Acetone

Concen: 1.152 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.01 min

Lab File: VX009861.D

Acq: 23 May 2019 16:17

Instrument :

MSVOA_X

ClientSampleId :

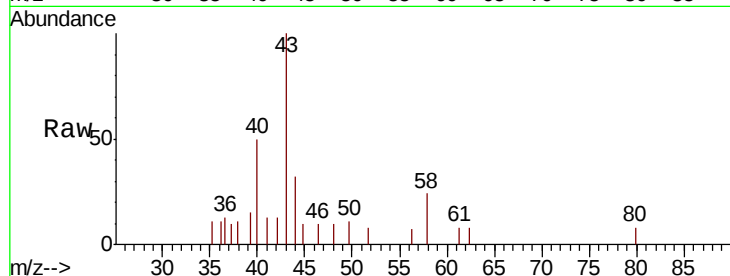
OUTFALL001-190521

Tot Ion: 43 Resp: 1479

Ion Ratio Lower Upper

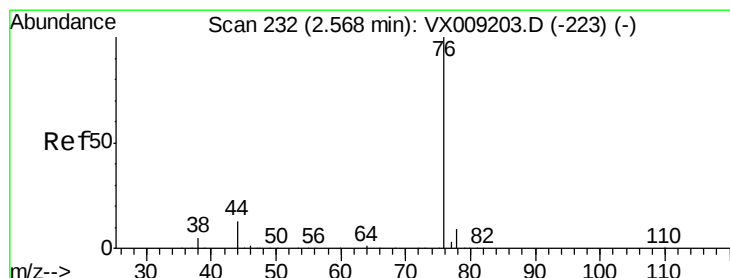
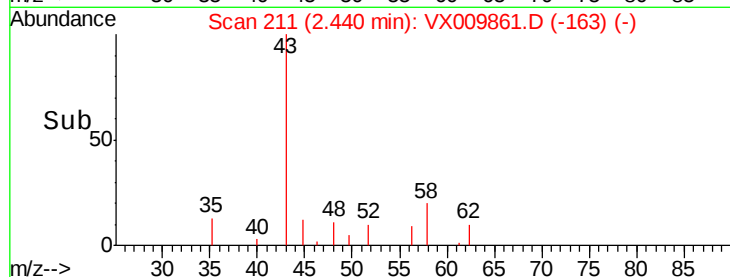
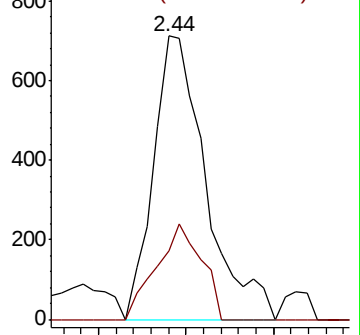
43 100

58 24.0 24.9 37.3#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#17

Carbon Disulfide

Concen: 0.226 ug/l

RT: 2.57 min Scan# 232

Delta R.T. -0.00 min

Lab File: VX009861.D

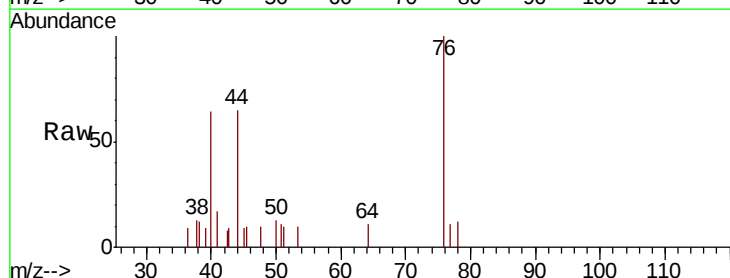
Acq: 23 May 2019 16:17

Tgt Ion: 76 Resp: 1044

Ion Ratio Lower Upper

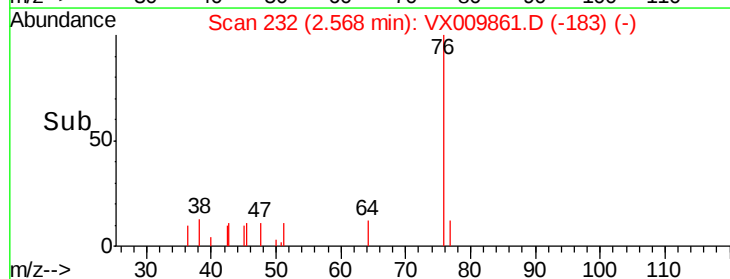
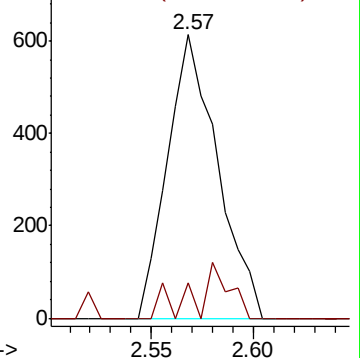
76 100

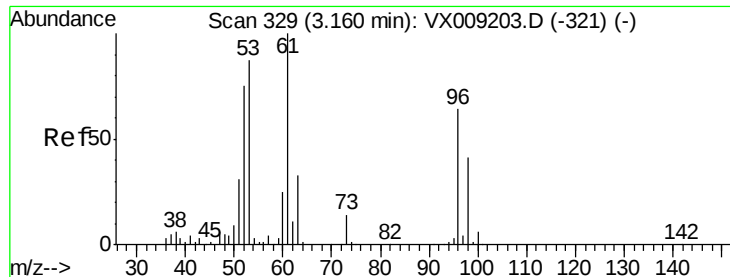
78 12.4 7.4 11.0#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0





#21

trans-1,2-Dichloroethene

Concen: 0.272 ug/l

RT: 3.17 min Scan# 331

Delta R.T. 0.01 min

Lab File: VX009861.D

Acq: 23 May 2019 16:17

Instrument :

MSVOA_X

ClientSampleId :

OUTFALL001-190521

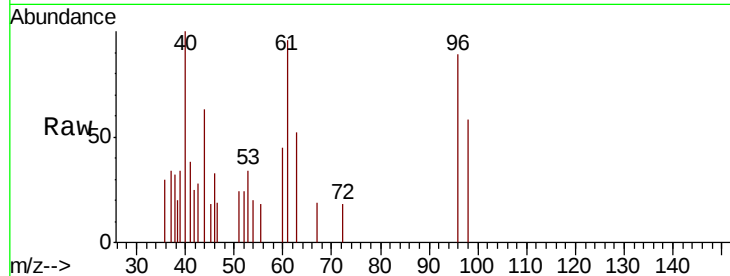
Tot Ion: 96 Resp: 484

Ion Ratio Lower Upper

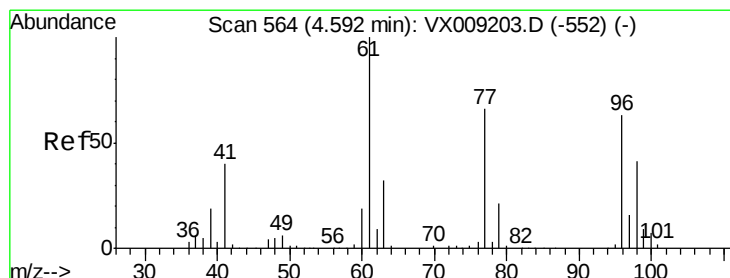
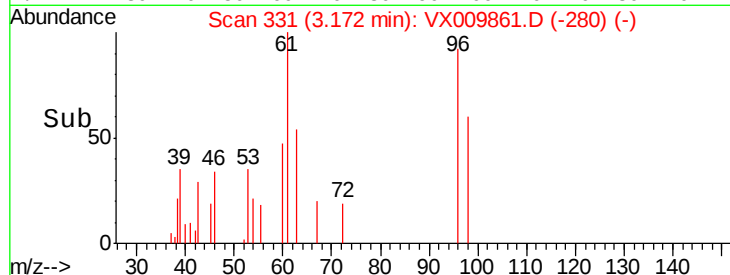
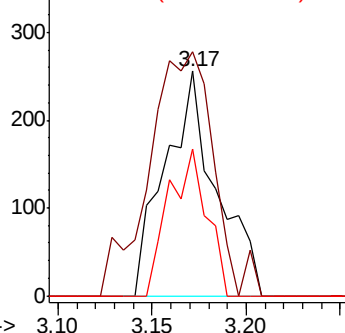
96 100

61 108.6 124.5 186.7#

98 65.2 50.4 75.6



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: 9.744 ug/l

RT: 4.60 min Scan# 565

Delta R.T. 0.01 min

Lab File: VX009861.D

Acq: 23 May 2019 16:17

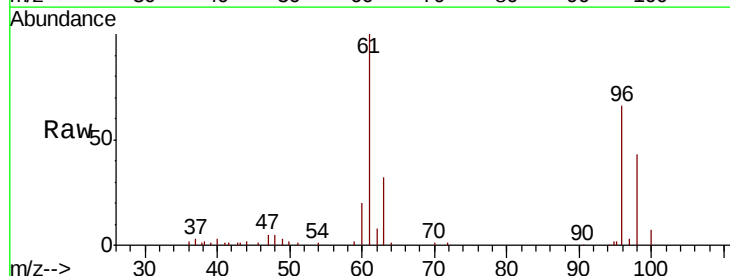
Tgt Ion: 96 Resp: 20721

Ion Ratio Lower Upper

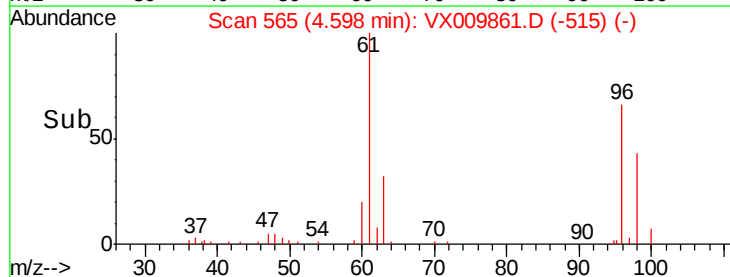
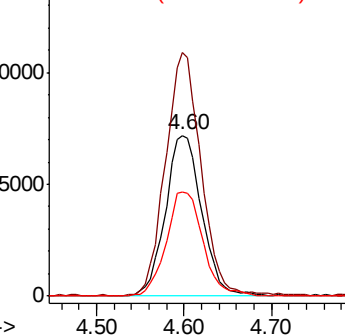
96 100

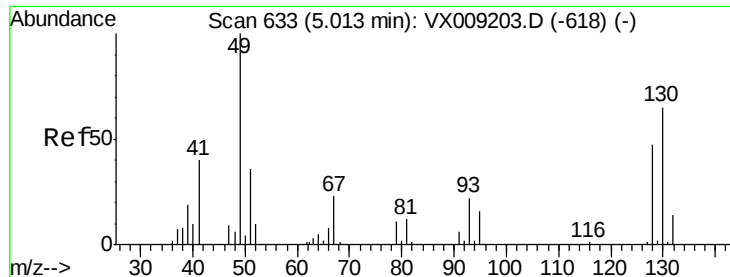
61 149.3 0.0 324.0

98 65.3 0.0 130.4



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





#28

Bromochloromethane

Concen: Below Cal

RT: 5.02 min Scan# 634

Delta R.T. 0.01 min

Lab File: VX009861.D

Acq: 23 May 2019 16:17

Instrument :

MSVOA_X

ClientSampleId :

OUTFALL001-190521

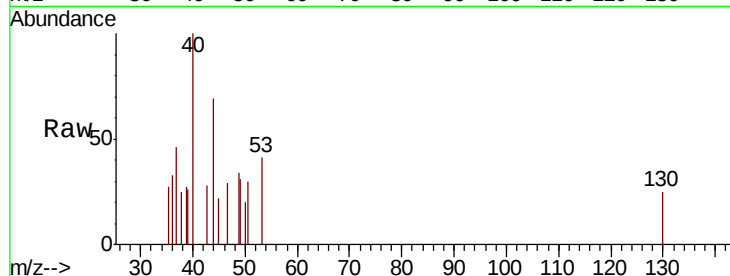
Tot Ion: 49 Resp: 218

Ion Ratio Lower Upper

49 100

129 0.0 0.0 3.8

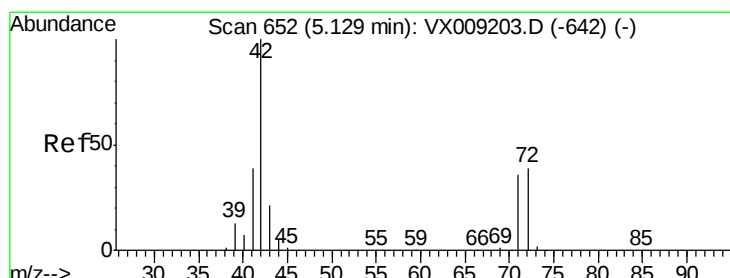
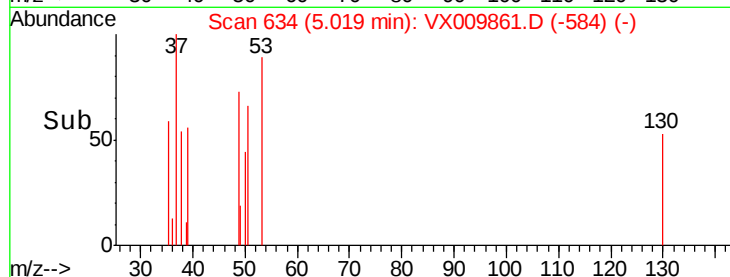
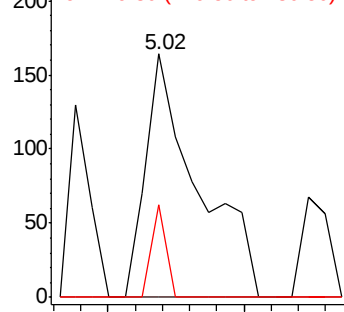
130 10.6 51.2 76.8#



Abundance Ion 48.90 (48.60 to 49.60): VX0

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V



#29

Tetrahydrofuran

Concen: 0.436 ug/l

RT: 5.14 min Scan# 654

Delta R.T. 0.01 min

Lab File: VX009861.D

Acq: 23 May 2019 16:17

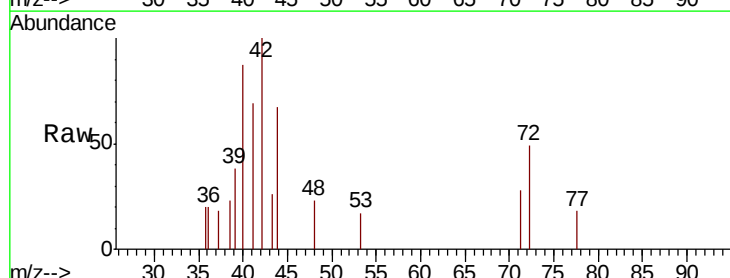
Tgt Ion: 42 Resp: 559

Ion Ratio Lower Upper

42 100

72 0.0 30.4 45.6#

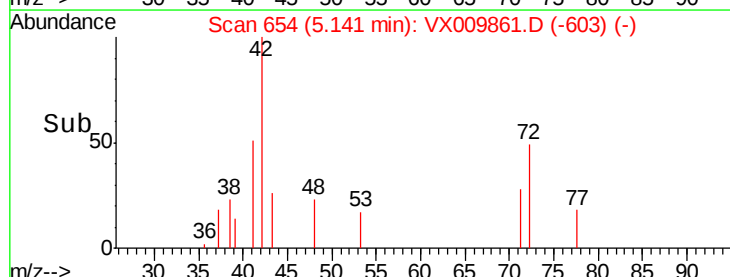
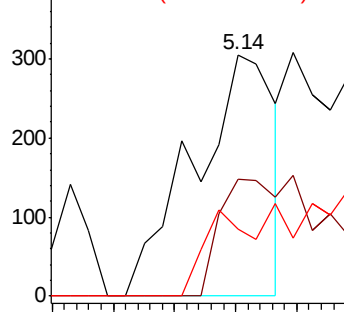
71 21.3 28.6 43.0#

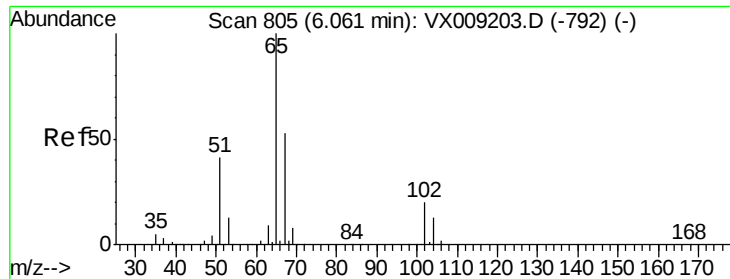


Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0

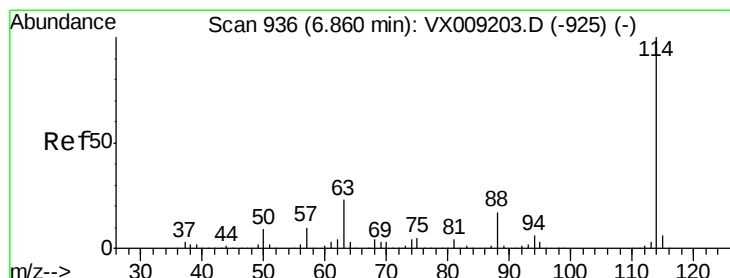
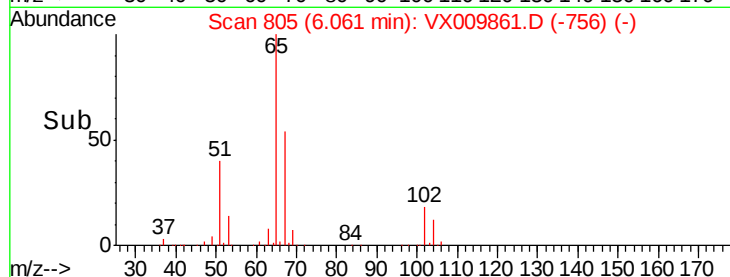
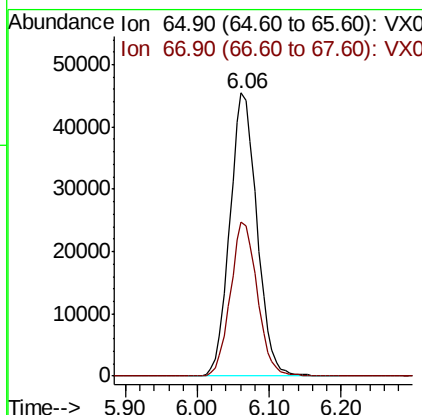
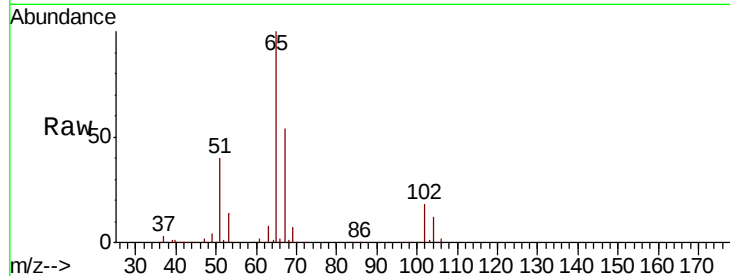




#33
 1,2-Dichloroethane-d4
 Concen: 49.902 ug/l
 RT: 6.06 min Scan# 805
 Delta R.T. -0.00 min
 Lab File: VX009861.D
 Acq: 23 May 2019 16:17

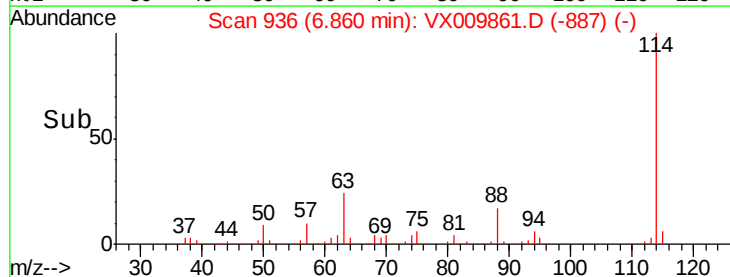
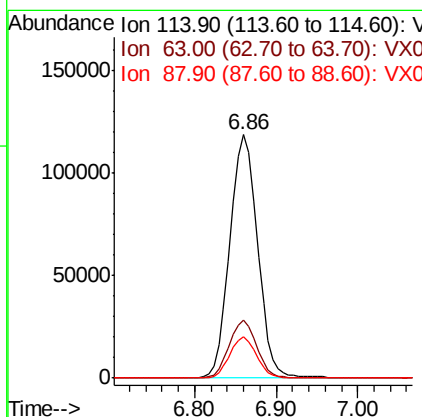
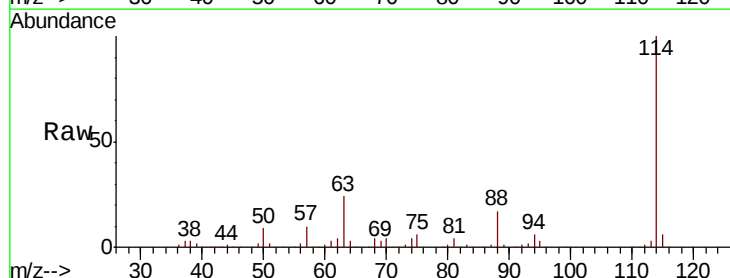
Instrument :
 MSVOA_X
 ClientSampleId :
 OUTFALL001-190521

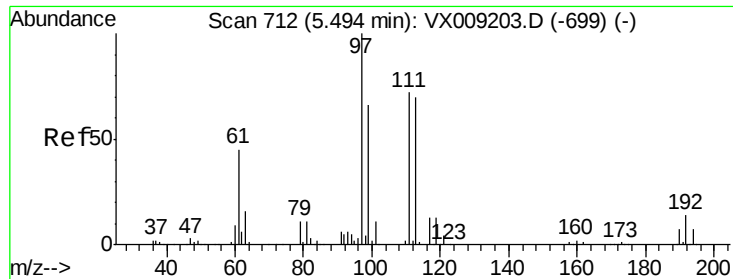
Tot Ion: 65 Resp: 119268
 Ion Ratio Lower Upper
 65 100
 67 53.7 0.0 106.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. -0.00 min
 Lab File: VX009861.D
 Acq: 23 May 2019 16:17

Tgt Ion: 114 Resp: 279353
 Ion Ratio Lower Upper
 114 100
 63 23.8 0.0 45.6
 88 16.8 0.0 33.2





#35

Dibromofluoromethane

Concen: 48.984 ug/l

RT: 5.50 min Scan# 713

Delta R.T. 0.01 min

Lab File: VX009861.D

Acq: 23 May 2019 16:17

Instrument :

MSVOA_X

ClientSampleId :

OUTFALL001-190521

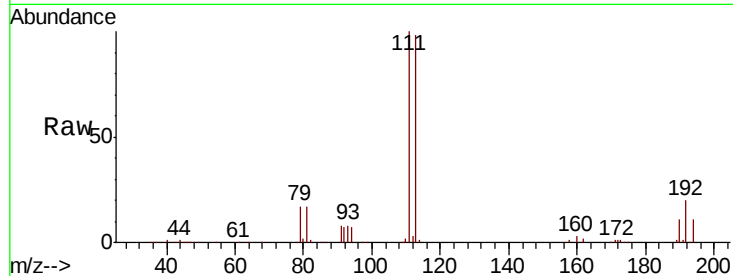
Tot Ion:113 Resp: 86022

Ion Ratio Lower Upper

113 100

111 102.7 82.8 124.2

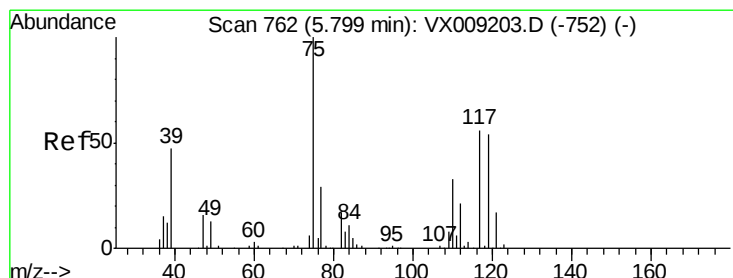
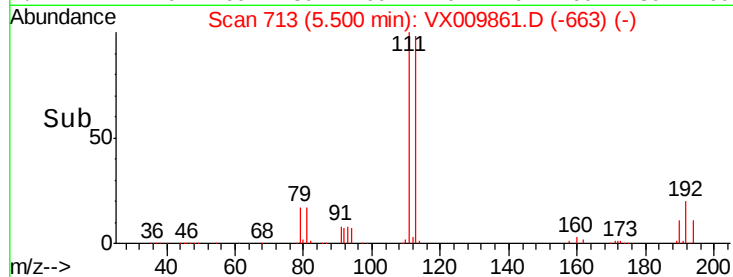
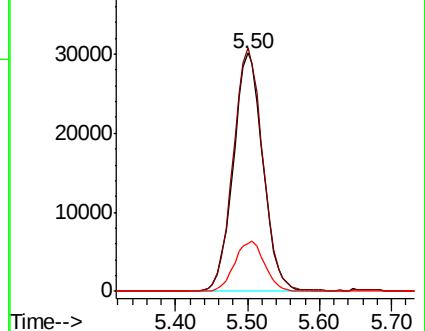
192 21.5 17.0 25.6



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: 5.523 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX009861.D

Acq: 23 May 2019 16:17

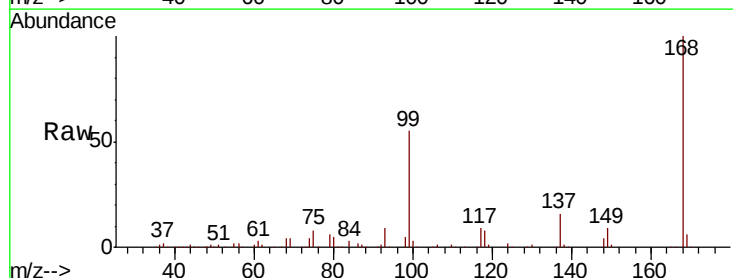
Tgt Ion: 75 Resp: 14339

Ion Ratio Lower Upper

75 100

110 8.2 16.9 50.6#

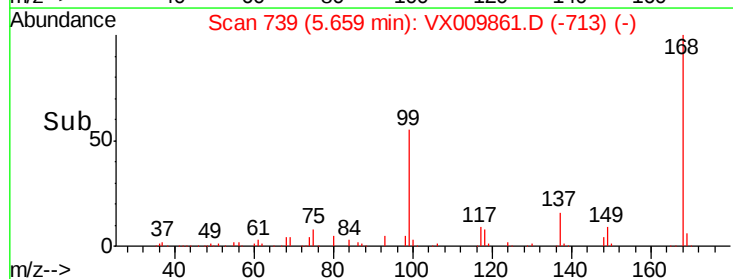
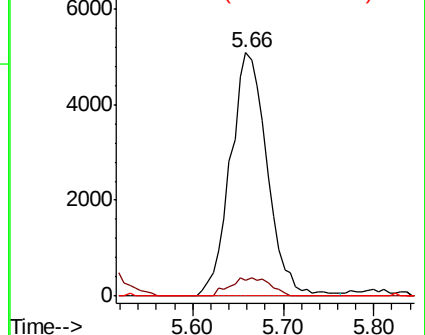
77 0.0 24.8 37.2#

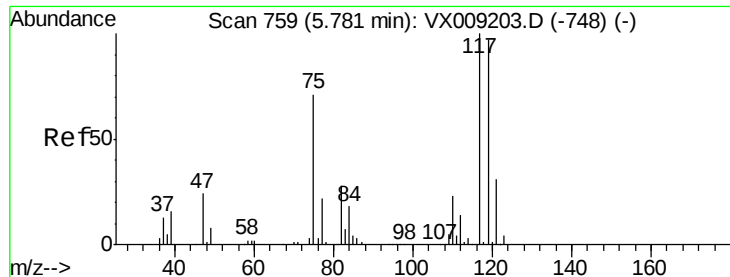


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.908 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.12 min

Lab File: VX009861.D

Acq: 23 May 2019 16:17

Instrument :

MSVOA_X

ClientSampleId :

OUTFALL001-190521

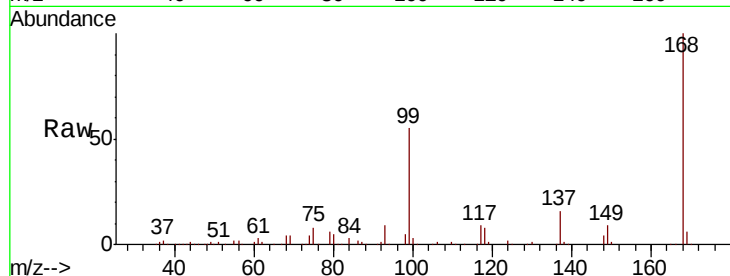
Tot Ion:117 Resp: 16294

Ion Ratio Lower Upper

117 100

119 5.6 77.5 116.3#

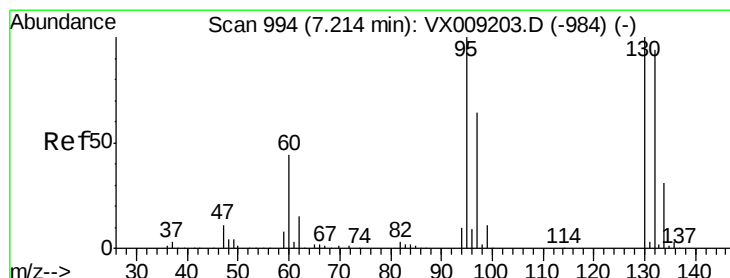
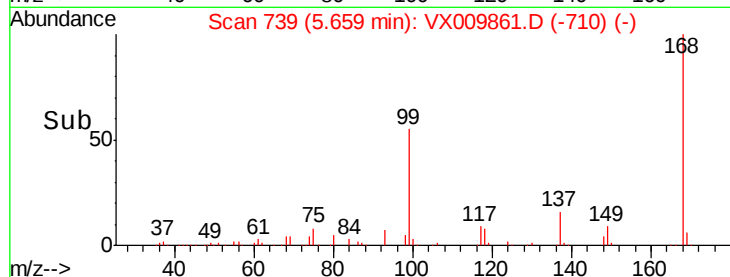
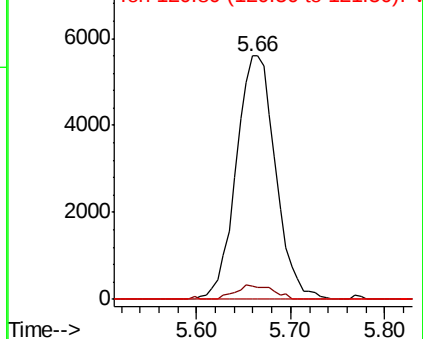
121 0.0 24.7 37.1#



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: 0.280 ug/l

RT: 7.23 min Scan# 996

Delta R.T. 0.01 min

Lab File: VX009861.D

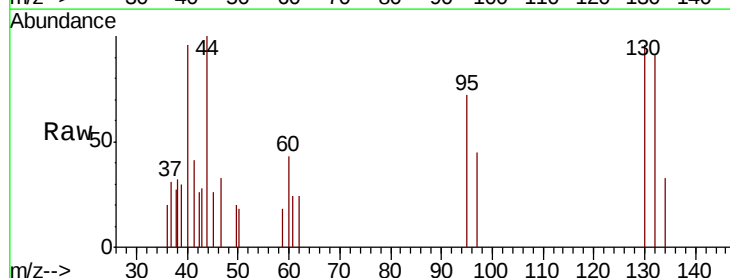
Acq: 23 May 2019 16:17

Tgt Ion:130 Resp: 544

Ion Ratio Lower Upper

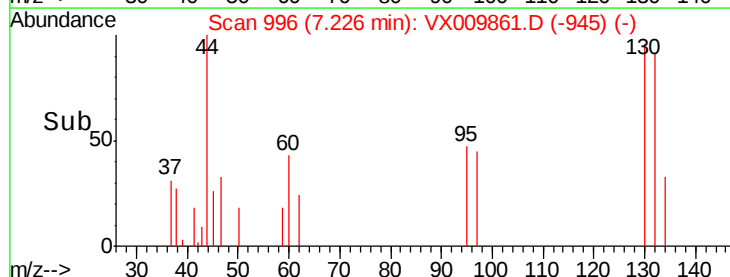
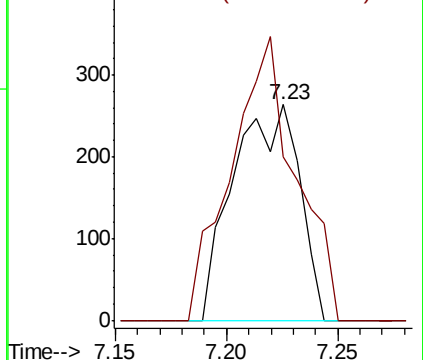
130 100

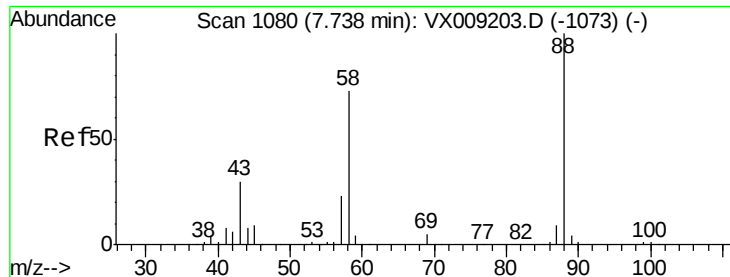
95 75.8 0.0 199.2



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

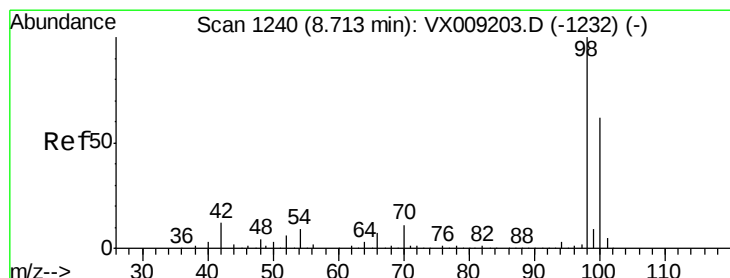
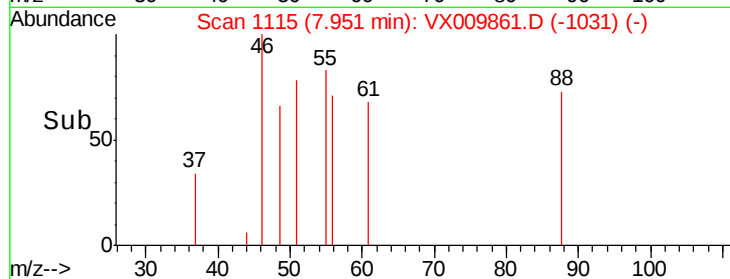
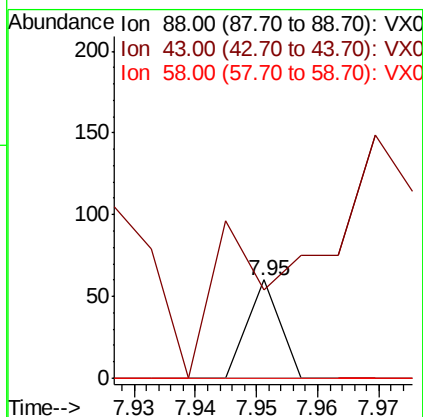
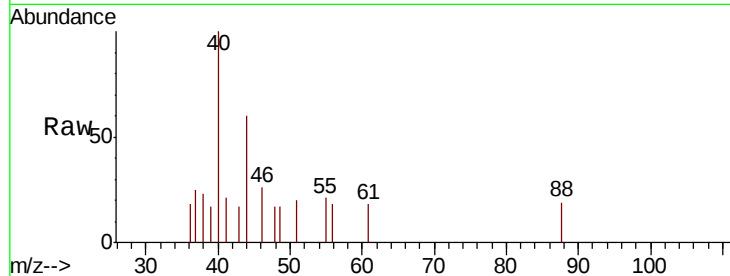




#49
 1,4-Dioxane
 Concen: 0.378 ug/l
 RT: 7.95 min Scan# 1115
 Delta R.T. 0.21 min
 Lab File: VX009861.D
 Acq: 23 May 2019 16:17

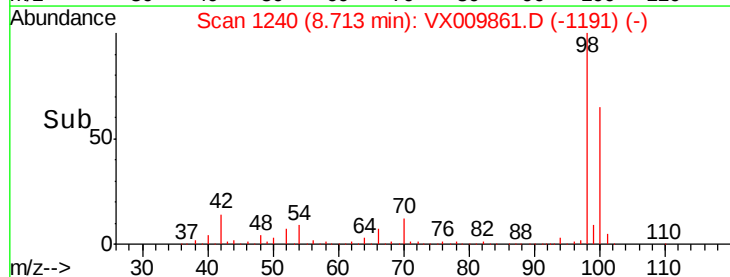
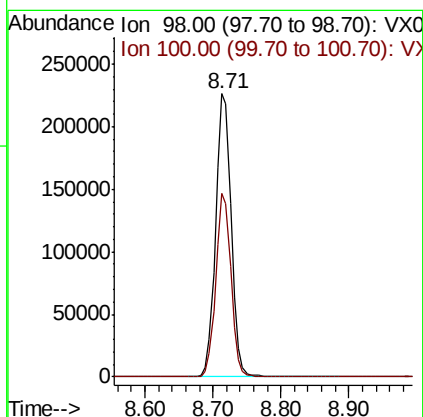
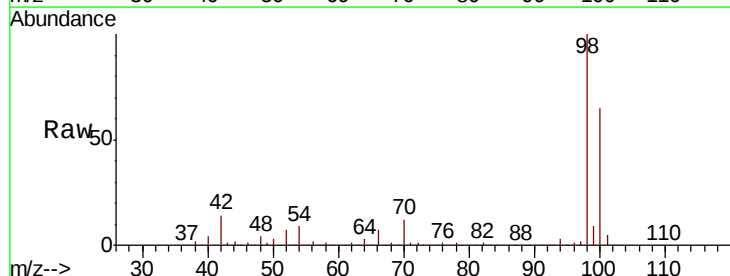
Instrument :
 MSVOA_X
 ClientSampleId :
 OUTFALL001-190521

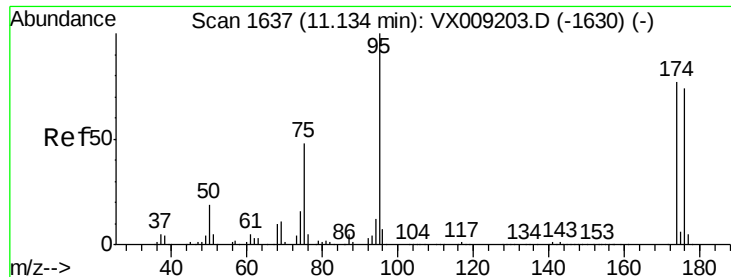
Tot Ion: 88 Resp: 22
 Ion Ratio Lower Upper
 88 100
 43 1218.2 28.6 42.8#
 58 0.0 61.7 92.5#



#50
 Toluene-d8
 Concen: 50.416 ug/l
 RT: 8.71 min Scan# 1240
 Delta R.T. -0.00 min
 Lab File: VX009861.D
 Acq: 23 May 2019 16:17

Tgt Ion: 98 Resp: 357446
 Ion Ratio Lower Upper
 98 100
 100 63.7 51.2 76.8





#62

4-Bromofluorobenzene

Concen: 44.949 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX009861.D

Acq: 23 May 2019 16:17

Instrument :

MSVOA_X

ClientSampleId :

OUTFALL001-190521

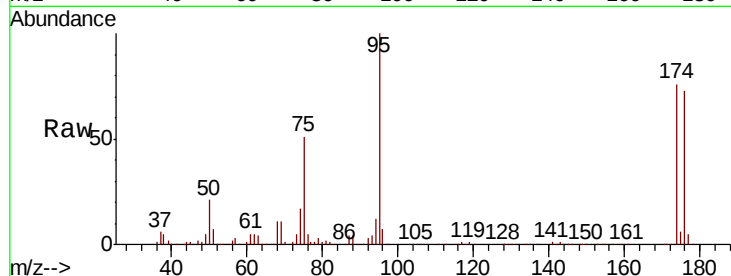
Tot Ion: 95 Resp: 115799

Ion Ratio Lower Upper

95 100

174 80.6 0.0 161.6

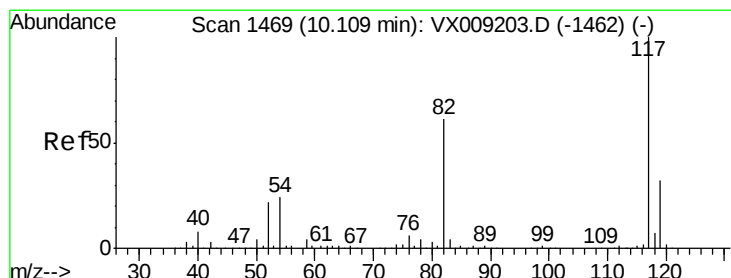
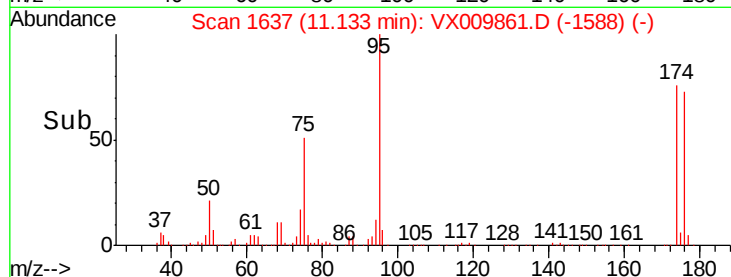
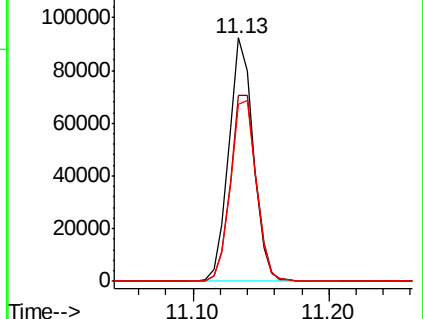
176 77.9 0.0 159.2



Abundance Ion 94.90 (94.60 to 95.60): VX009861.D (-1588) (-)

Ion 173.80 (173.50 to 174.50): VX009861.D (-1588) (-)

Ion 175.80 (175.50 to 176.50): VX009861.D (-1588) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. -0.00 min

Lab File: VX009861.D

Acq: 23 May 2019 16:17

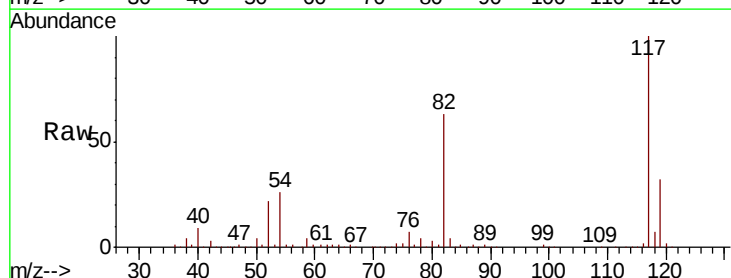
Tgt Ion: 117 Resp: 244798

Ion Ratio Lower Upper

117 100

82 62.9 48.8 73.2

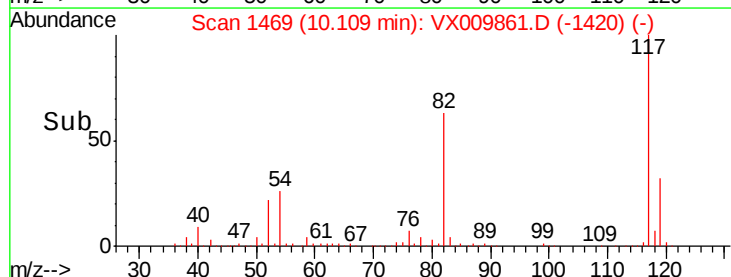
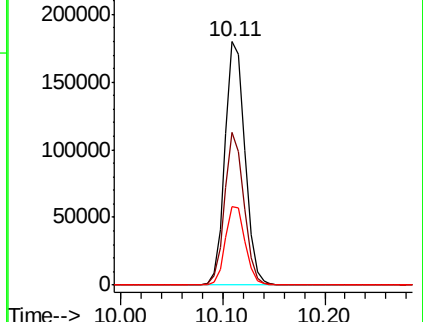
119 32.4 25.8 38.6

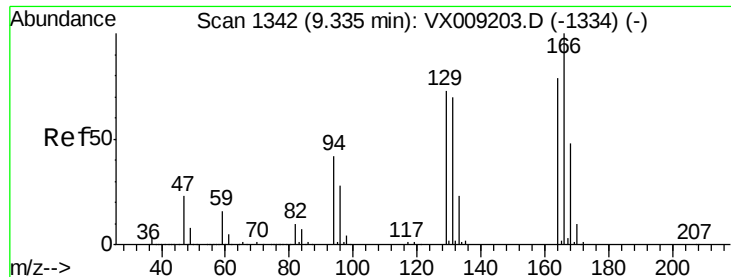


Abundance Ion 116.90 (116.60 to 117.60): VX009861.D (-1420) (-)

Ion 82.00 (81.70 to 82.70): VX009861.D (-1420) (-)

Ion 118.90 (118.60 to 119.60): VX009861.D (-1420) (-)





#64

Tetrachloroethene

Concen: 0.206 ug/l

RT: 9.34 min Scan# 1342

Delta R.T. -0.00 min

Lab File: VX009861.D

Acq: 23 May 2019 16:17

Instrument :

MSVOA_X

ClientSampleId :

OUTFALL001-190521

Tot Ion:164 Resp: 346

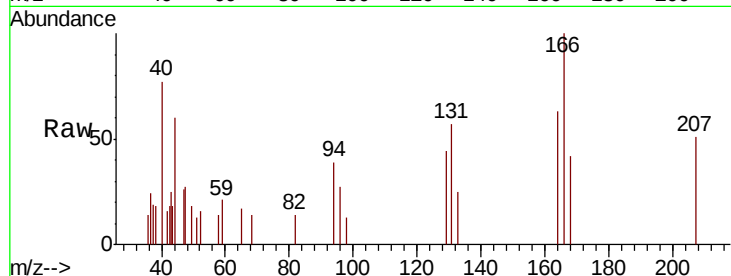
Ion Ratio Lower Upper

164 100

166 159.9 101.2 151.8#

129 70.9 74.3 111.5#

131 91.6 71.0 106.6



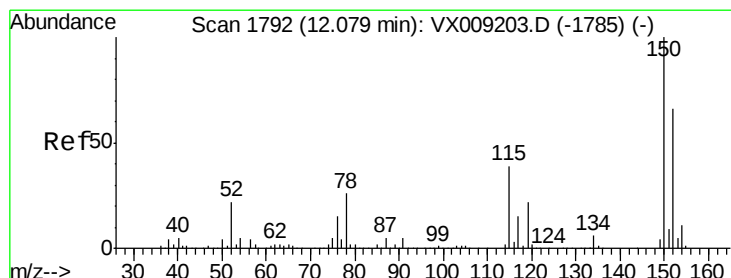
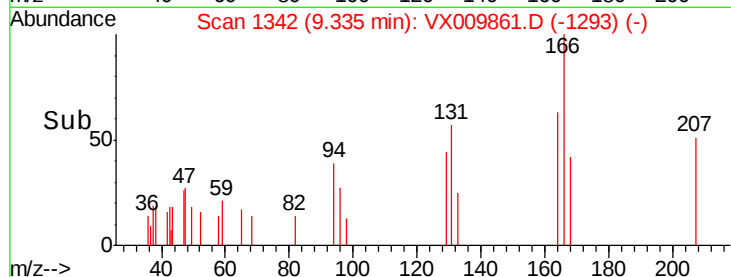
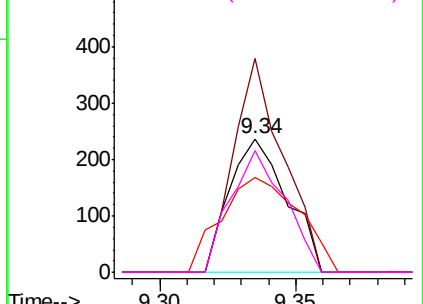
Abundance

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: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX009861.D

Acq: 23 May 2019 16:17

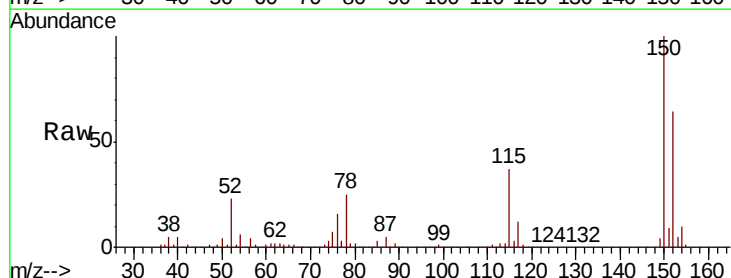
Tgt Ion:152 Resp: 99671

Ion Ratio Lower Upper

152 100

115 59.2 41.2 123.6

150 157.3 0.0 346.4

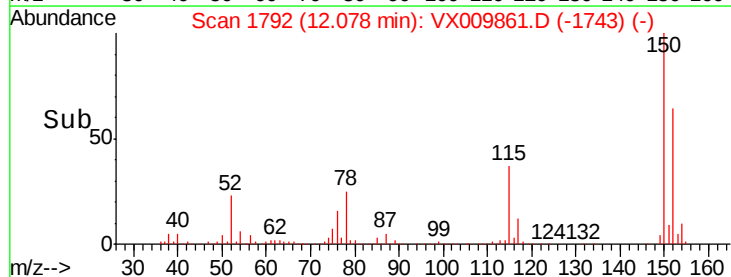
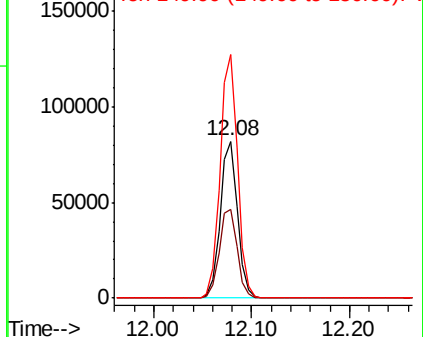


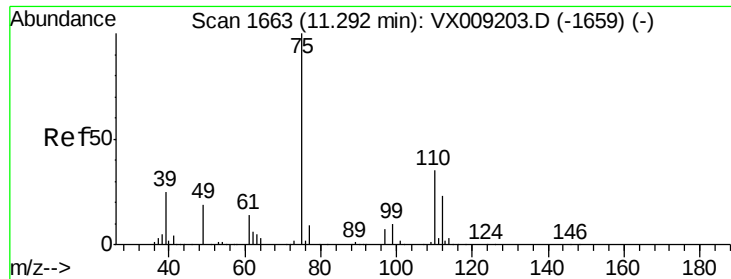
Abundance

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

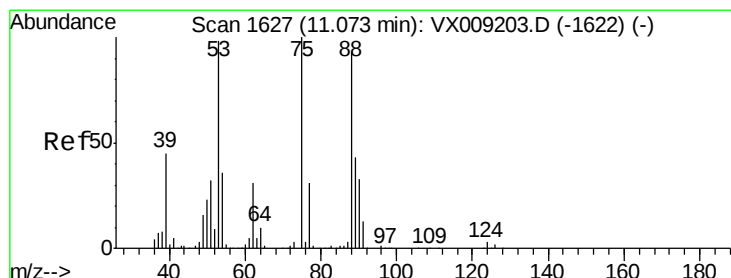
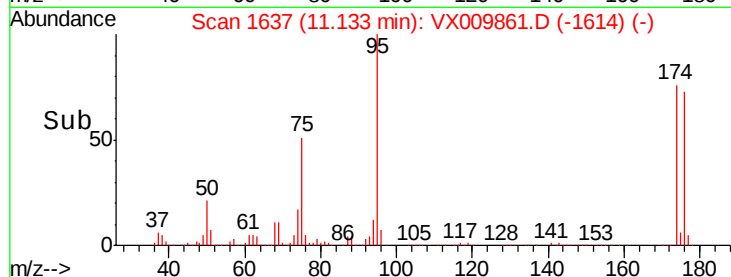
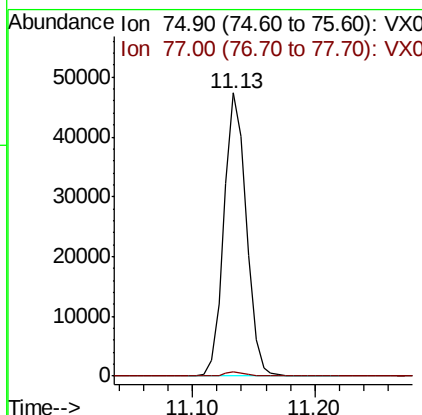
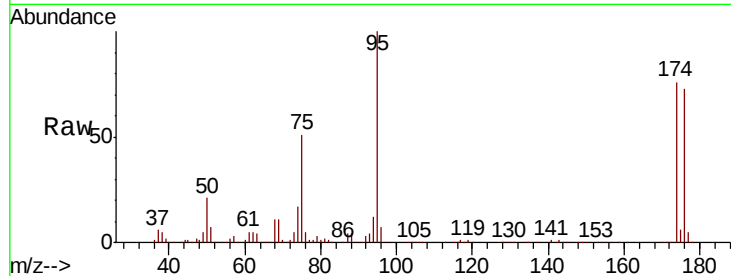




#76
 1,2,3-Trichloropropane
 Concen: 25.961 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. -0.16 min
 Lab File: VX009861.D
 Acq: 23 May 2019 16:17

Instrument :
 MSVOA_X
 ClientSampleId :
 OUTFALL001-190521

Tot Ion: 75 Resp: 60022
 Ion Ratio Lower Upper
 75 100
 77 1.5 22.1 66.1#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 66.425 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. 0.06 min
 Lab File: VX009861.D
 Acq: 23 May 2019 16:17

Tgt Ion: 75 Resp: 60022
 Ion Ratio Lower Upper
 75 100
 53 0.3 79.0 118.6#
 89 0.0 34.7 52.1#

