

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX100219\
 Data File : VX012765.D
 Acq On : 02 Oct 2019 17:13
 Operator : JC/SP
 Sample : K5159-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 OUTFALL001-191001

Quant Time: Oct 03 01:33:28 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X092319W.M
 Quant Title : SW846 8260
 QLast Update : Mon Sep 23 12:27:01 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	170328	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	297158	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	244949	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	90093	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.05	65	120036	48.40	ug/l	0.00
Spiked Amount			Recovery	=	96.80%	
35) Dibromofluoromethane	5.49	113	90968	51.40	ug/l	0.00
Spiked Amount			Recovery	=	102.80%	
50) Toluene-d8	8.71	98	348512	51.14	ug/l	0.00
Spiked Amount			Recovery	=	102.28%	
62) 4-Bromofluorobenzene	11.14	95	109915	41.02	ug/l	0.00
Spiked Amount			Recovery	=	82.04%	

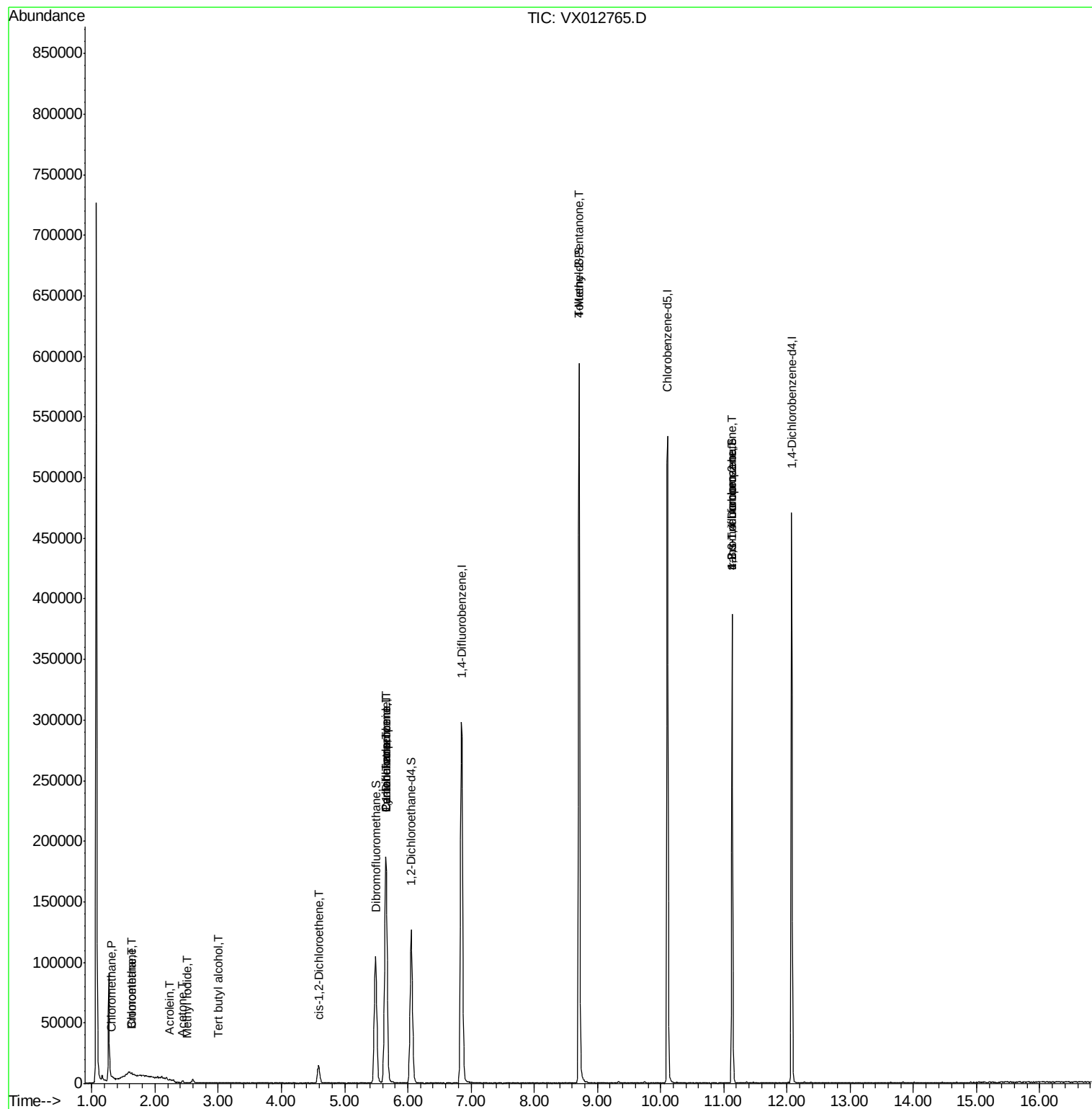
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	821	0.373	ug/l #	77
5) Bromomethane	1.64	94	470	0.547	ug/l #	58
6) Chloroethane	1.63	64	1901	1.289	ug/l #	88
10) Methyl Iodide	2.51	142	138	5.016	ug/l #	55
11) Tert butyl alcohol	3.00	59	280	0.452	ug/l #	72
13) Acrolein	2.24	56	91	10.486	ug/l	97
16) Acetone	2.43	43	1828	1.391	ug/l	90
27) cis-1,2-Dichloroethene	4.59	96	8439	3.585	ug/l	87
31) Cyclohexane	5.65	56	4028	1.167	ug/l #	1
36) 1,1-Dichloropropene	5.65	75	14323	5.001	ug/l #	52
38) Carbon Tetrachloride	5.65	117	18332	6.300	ug/l #	17
51) 4-Methyl-2-Pentanone	8.71	43	1642	0.475	ug/l #	1
76) 1,2,3-Trichloropropane	11.14	75	56009	23.502	ug/l #	38
81) trans-1,4-Dichloro-2-buten	11.14	75	56009	67.351	ug/l #	8

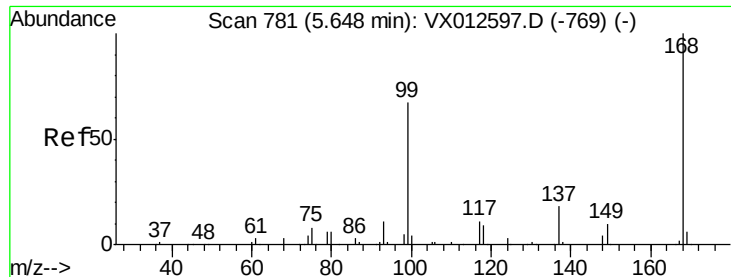
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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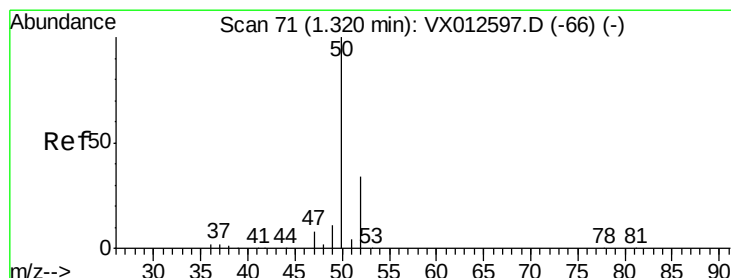
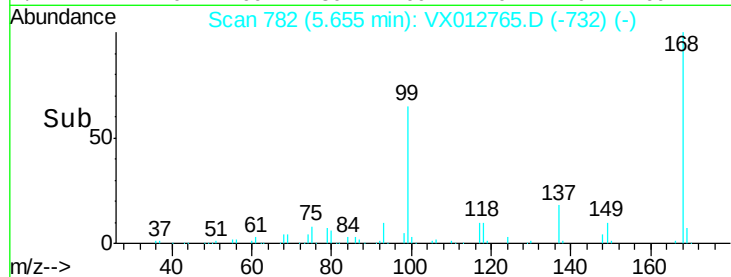
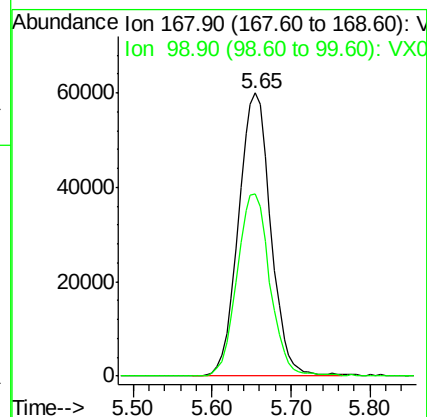
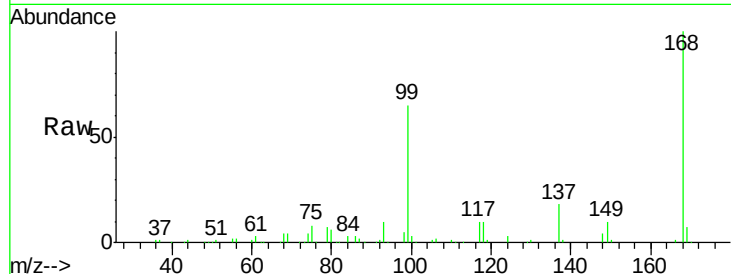




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.65 min Scan# 782
Delta R.T. 0.01 min
Lab File: VX012765.D
Acq: 02 Oct 2019 17:13

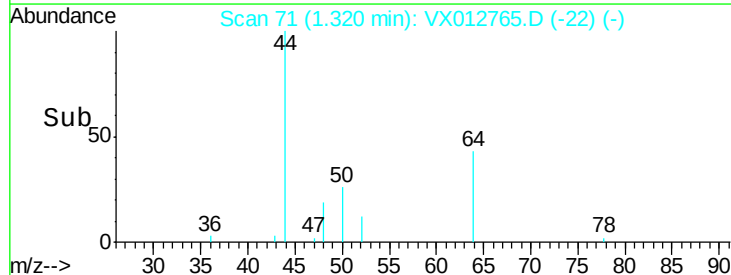
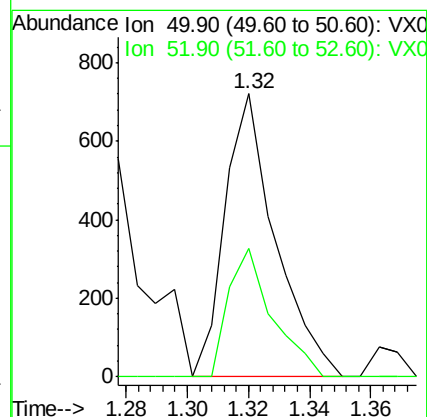
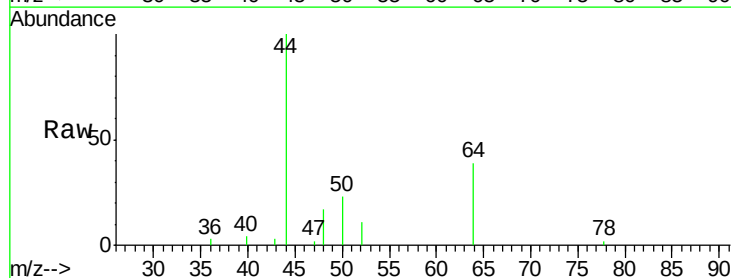
Instrument :
MSVOA_X
ClientSampleId :
OUTFALL001-191001

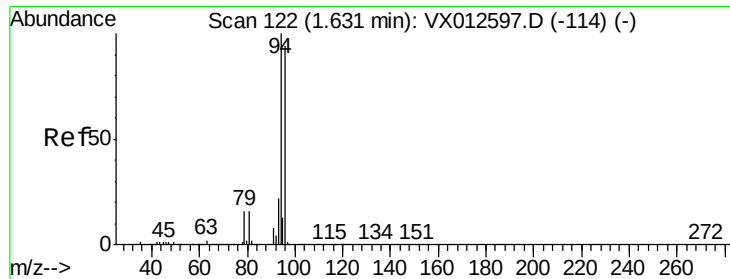
Tot Ion:168 Resp: 170328
Ion Ratio Lower Upper
168 100
99 64.4 51.4 77.2



#3
Chloromethane
Concen: 0.373 ug/l
RT: 1.32 min Scan# 71
Delta R.T. 0.00 min
Lab File: VX012765.D
Acq: 02 Oct 2019 17:13

Tgt Ion: 50 Resp: 821
Ion Ratio Lower Upper
50 100
52 45.2 25.7 38.5#





#5

Bromomethane

Concen: 0.547 ug/l

RT: 1.64 min Scan# 124

Delta R.T. 0.02 min

Lab File: VX012765.D

Acq: 02 Oct 2019 17:13

Instrument :

MSVOA_X

ClientSampleId :

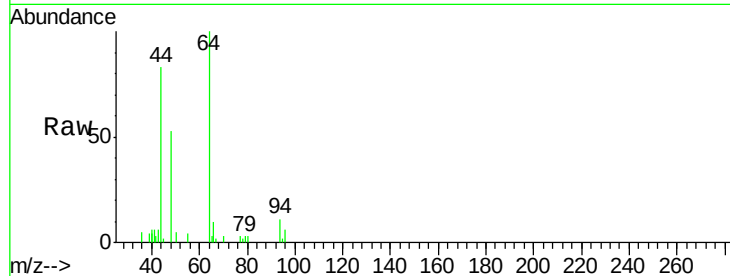
OUTFALL001-191001

Tot Ion: 94 Resp: 470

Ion Ratio Lower Upper

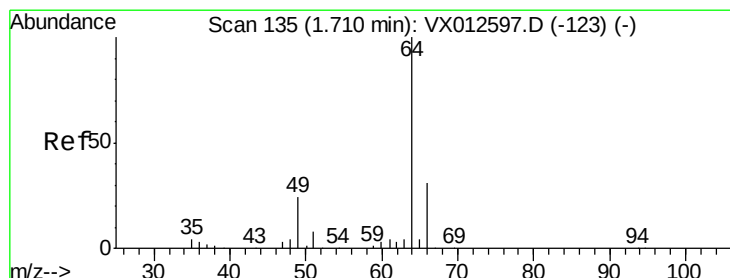
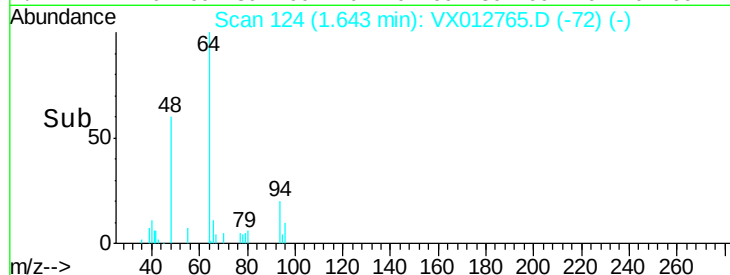
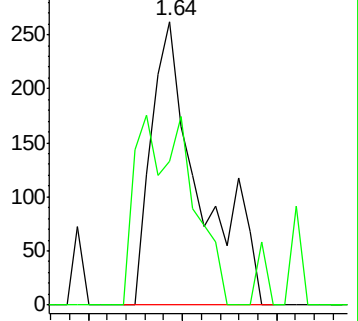
94 100

96 50.8 72.8 109.2#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#6

Chloroethane

Concen: 1.289 ug/l

RT: 1.63 min Scan# 122

Delta R.T. -0.08 min

Lab File: VX012765.D

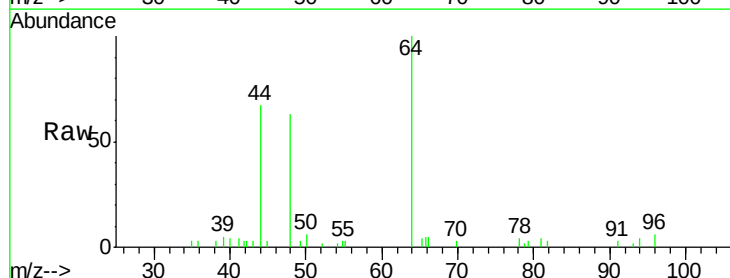
Acq: 02 Oct 2019 17:13

Tgt Ion: 64 Resp: 1901

Ion Ratio Lower Upper

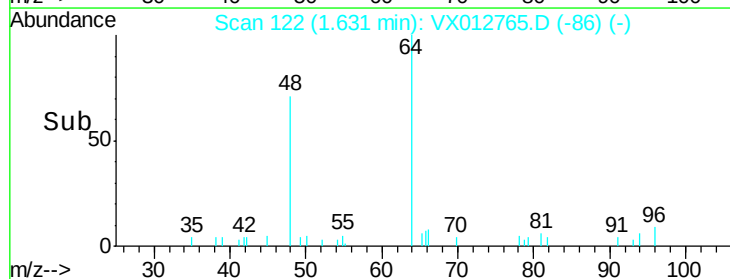
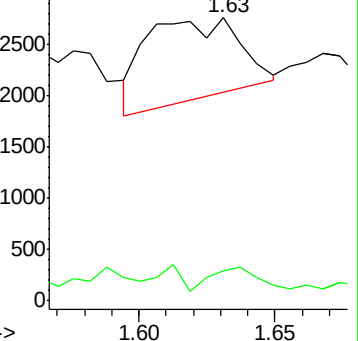
64 100

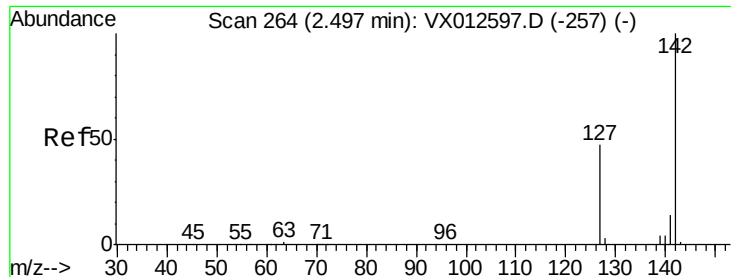
66 23.6 24.0 36.0#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

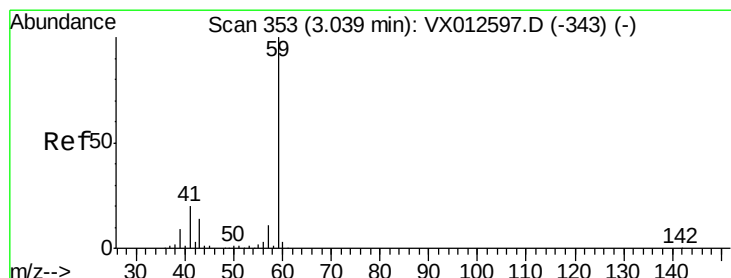
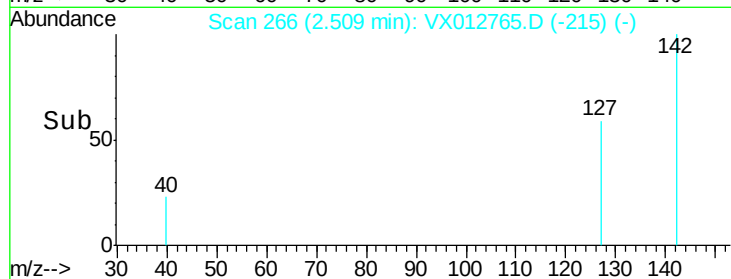
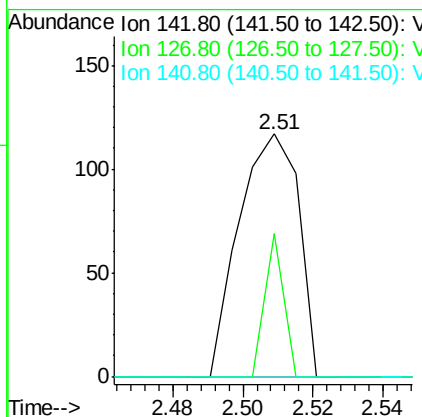
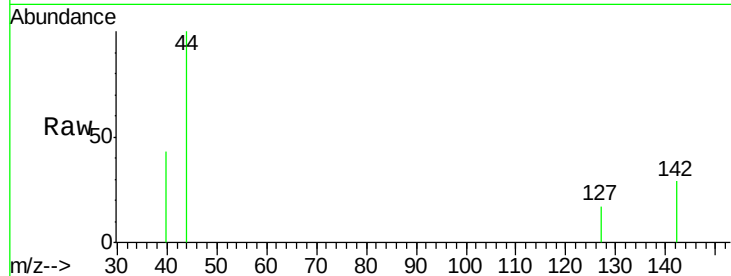




#10
Methvl Iodide
Concen: 5.016 ug/l
RT: 2.51 min Scan# 266
Delta R.T. 0.01 min
Lab File: VX012765.D
Acq: 02 Oct 2019 17:13

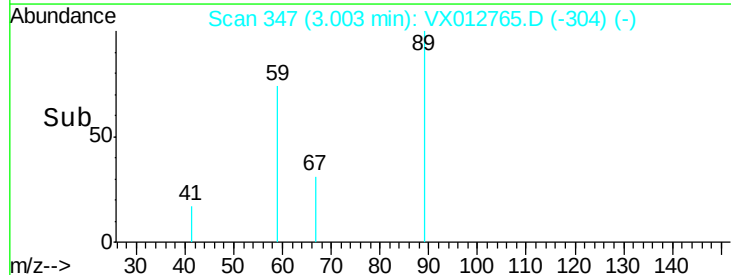
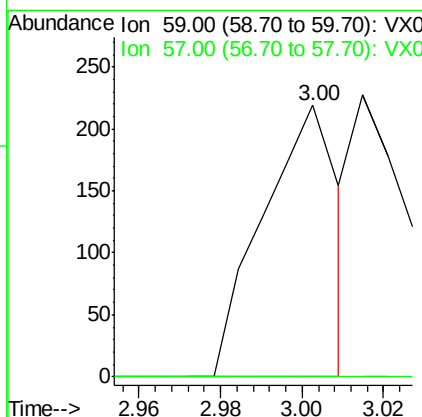
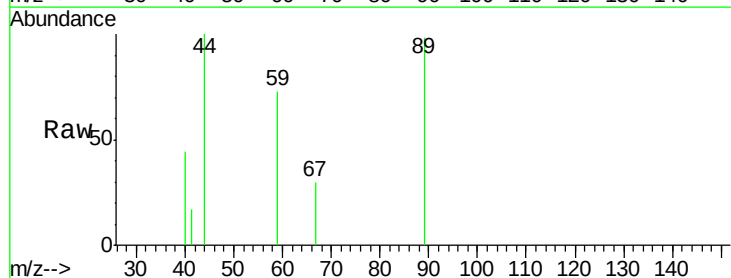
Instrument :
MSVOA_X
ClientSampleId :
OUTFALL001-191001

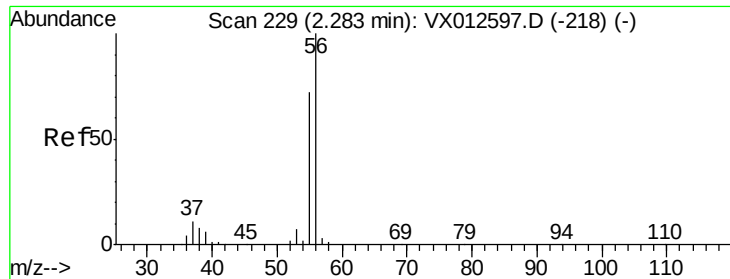
Tot Ion:142 Resp: 138
Ion Ratio Lower Upper
142 100
127 18.1 40.8 61.2#
141 0.0 12.1 18.1#



#11
Tert butyl alcohol
Concen: 0.452 ug/l
RT: 3.00 min Scan# 347
Delta R.T. -0.04 min
Lab File: VX012765.D
Acq: 02 Oct 2019 17:13

Tgt Ion: 59 Resp: 280
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#





#13

Acrolein

Concen: 10.486 ug/l

RT: 2.24 min Scan# 222

Delta R.T. -0.04 min

Lab File: VX012765.D

Acq: 02 Oct 2019 17:13

Instrument :

MSVOA_X

ClientSampleId :

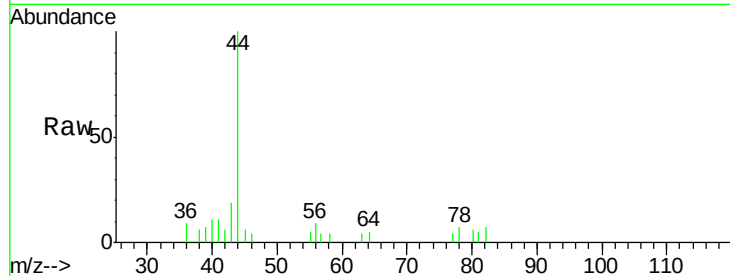
OUTFALL001-191001

Tot Ion: 56 Resp: 91

Ion Ratio Lower Upper

56 100

55 67.0 55.8 83.8



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

150

100

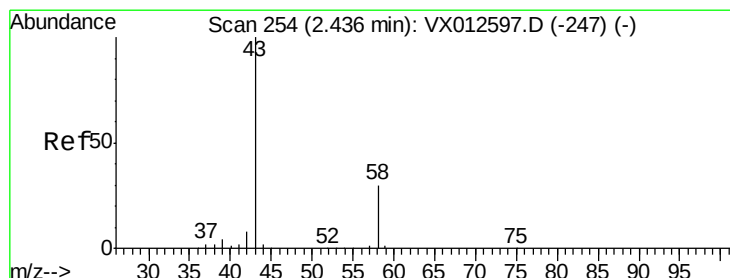
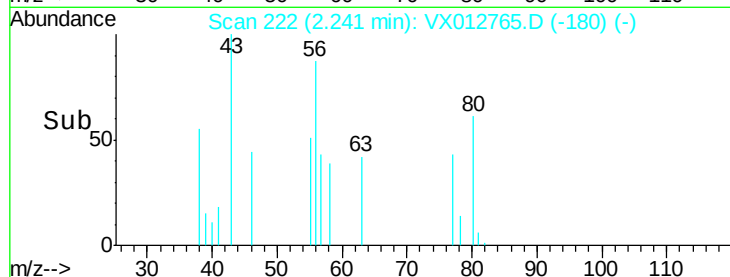
50

0

2.22 2.24 2.26

2.24

Time-->



#16

Acetone

Concen: 1.391 ug/l

RT: 2.43 min Scan# 253

Delta R.T. -0.01 min

Lab File: VX012765.D

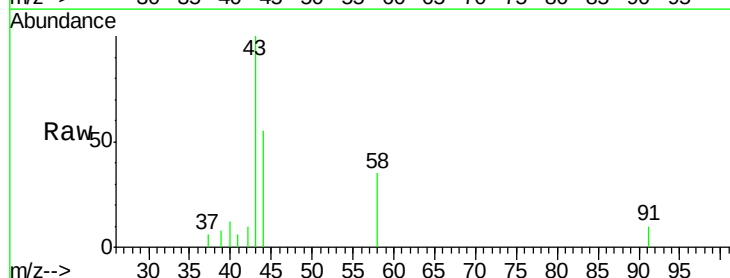
Acq: 02 Oct 2019 17:13

Tgt Ion: 43 Resp: 1828

Ion Ratio Lower Upper

43 100

58 34.6 23.3 34.9



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

1200

1000

800

600

400

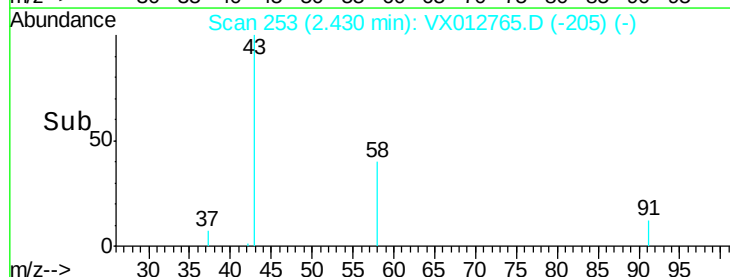
200

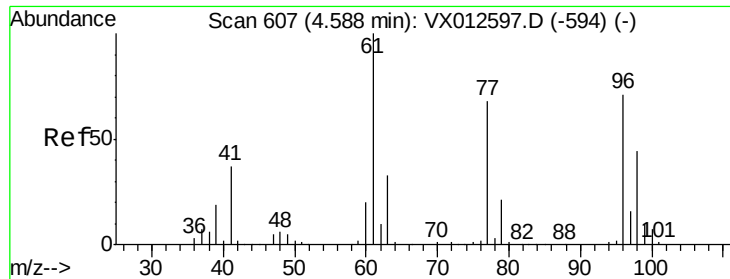
0

2.40 2.45 2.50

2.43

Time-->



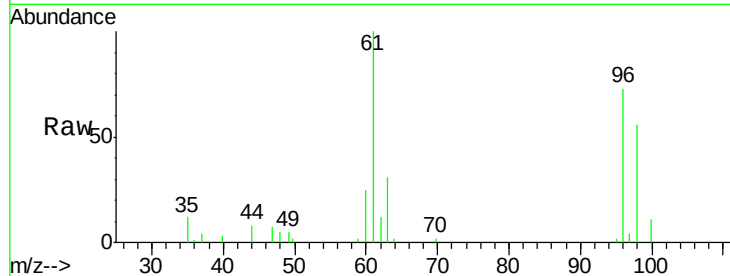


#27

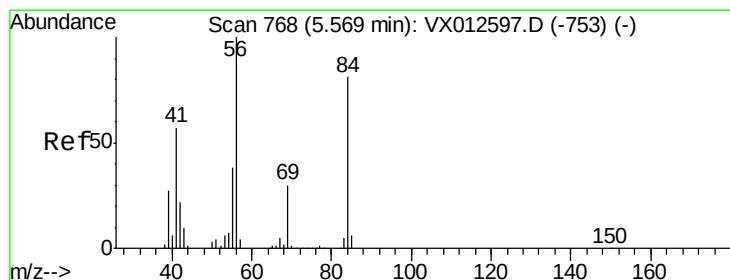
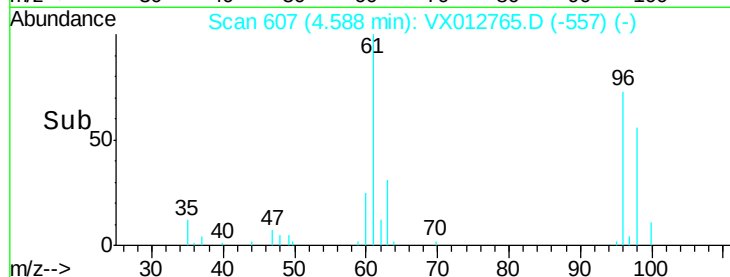
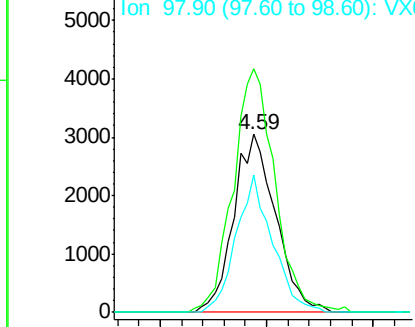
cis-1,2-Dichloroethene
Concen: 3.585 ug/l
RT: 4.59 min Scan# 607
Delta R.T. 0.01 min
Lab File: VX012765.D
Acq: 02 Oct 2019 17:13

Instrument :
MSVOA_X
ClientSampleId :
OUTFALL001-191001

Tot Ion: 96 Resp: 8439
Ion Ratio Lower Upper
96 100
61 136.9 0.0 319.4
98 66.7 0.0 130.6



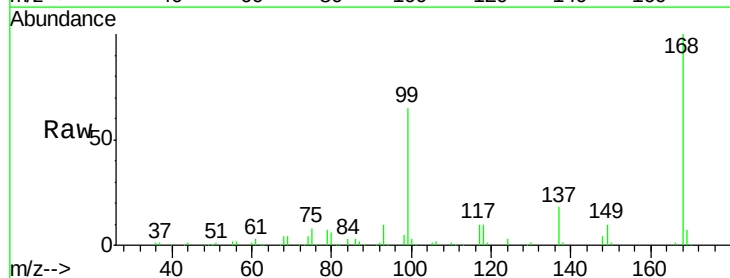
Abundance Ion 95.90 (95.60 to 96.60): VX0
Ion 60.90 (60.60 to 61.60): VX0
Ion 97.90 (97.60 to 98.60): VX0



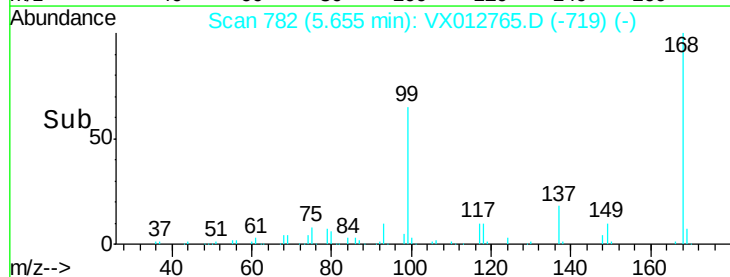
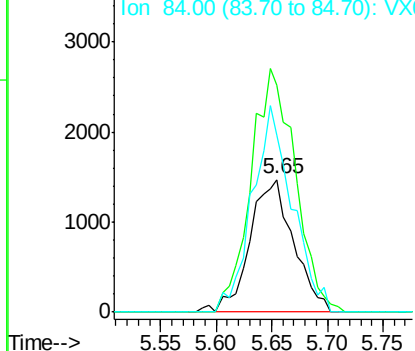
#31

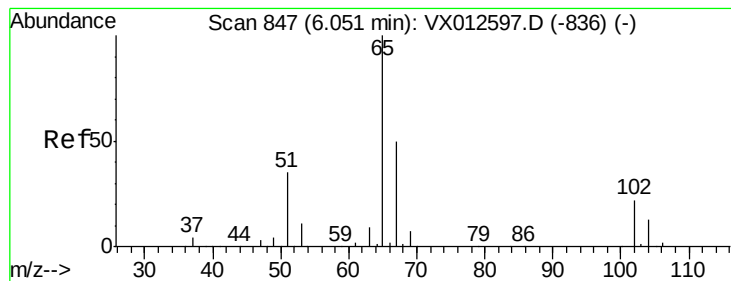
Cyclohexane
Concen: 1.167 ug/l
RT: 5.65 min Scan# 782
Delta R.T. 0.09 min
Lab File: VX012765.D
Acq: 02 Oct 2019 17:13

Tgt Ion: 56 Resp: 4028
Ion Ratio Lower Upper
56 100
69 170.7 25.0 37.6#
84 133.7 66.4 99.6#



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: 48.396 ug/l

RT: 6.05 min Scan# 847

Delta R.T. 0.00 min

Lab File: VX012765.D

Acq: 02 Oct 2019 17:13

Instrument :

MSVOA_X

ClientSampleId :

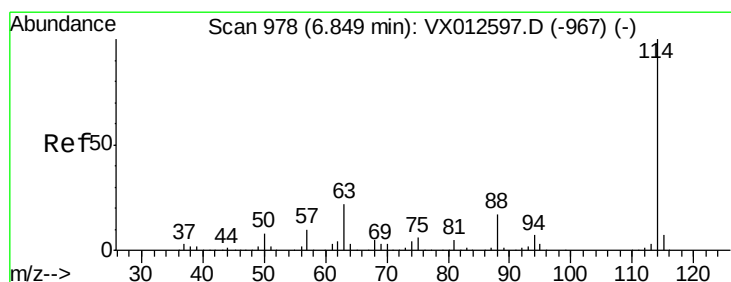
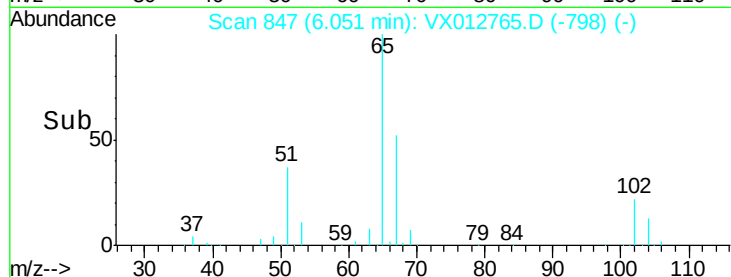
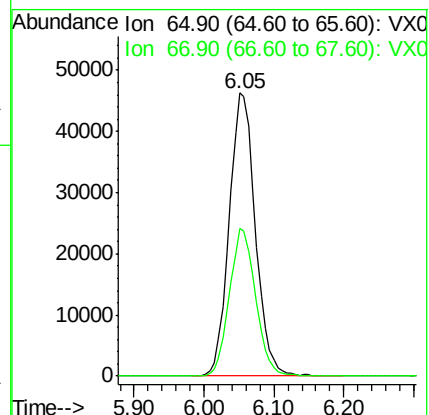
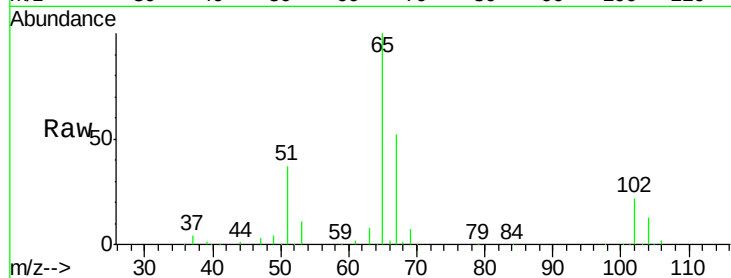
OUTFALL001-191001

Tot Ion: 65 Resp: 120036

Ion Ratio Lower Upper

65 100

67 52.3 0.0 101.2



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 978

Delta R.T. 0.00 min

Lab File: VX012765.D

Acq: 02 Oct 2019 17:13

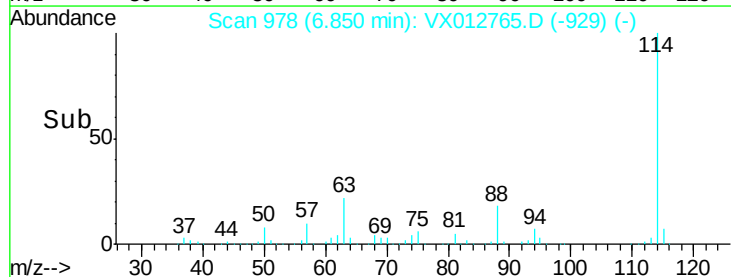
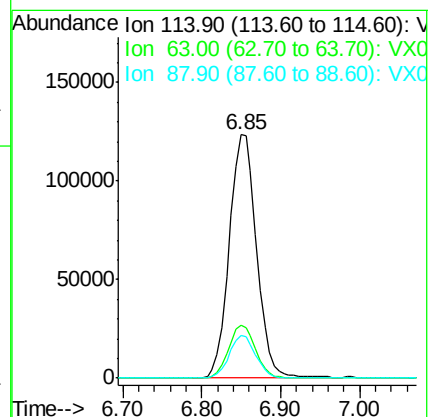
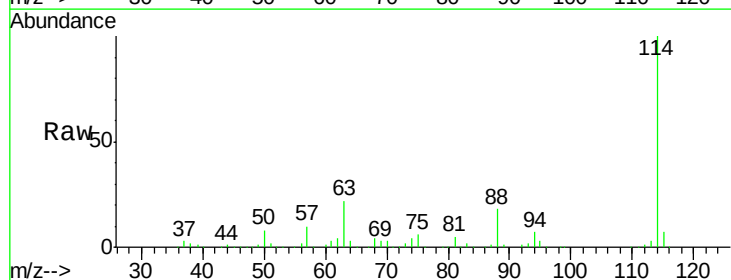
Tgt Ion: 114 Resp: 297158

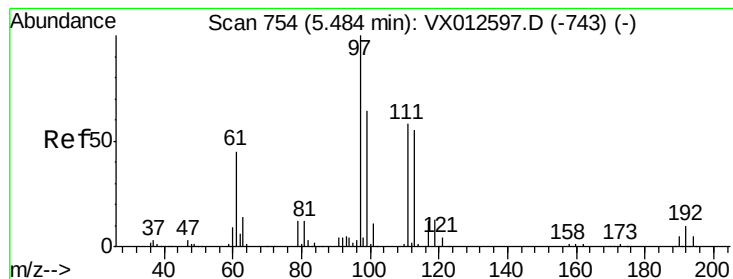
Ion Ratio Lower Upper

114 100

63 21.9 0.0 43.2

88 17.6 0.0 33.2





#35

Dibromofluoromethane

Concen: 51.403 ug/l

RT: 5.49 min Scan# 755

Delta R.T. 0.00 min

Lab File: VX012765.D

Acq: 02 Oct 2019 17:13

Instrument :

MSVOA_X

ClientSampleId :

OUTFALL001-191001

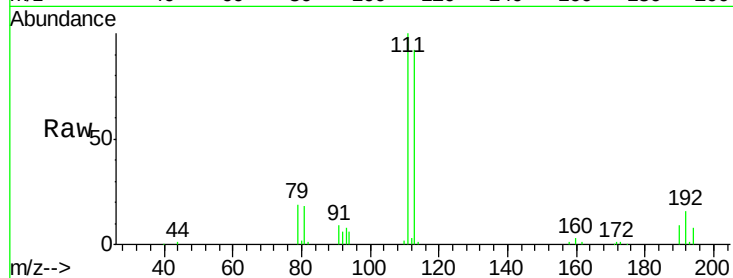
Tot Ion:113 Resp: 90968

Ion Ratio Lower Upper

113 100

111 102.5 83.4 125.2

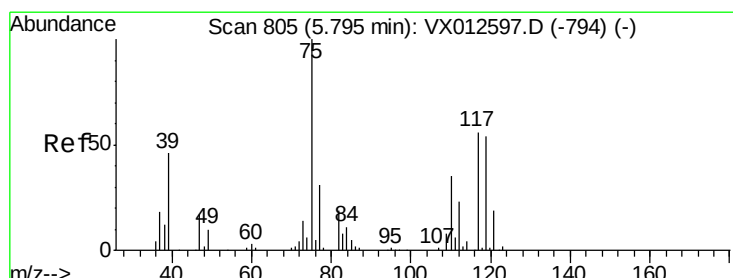
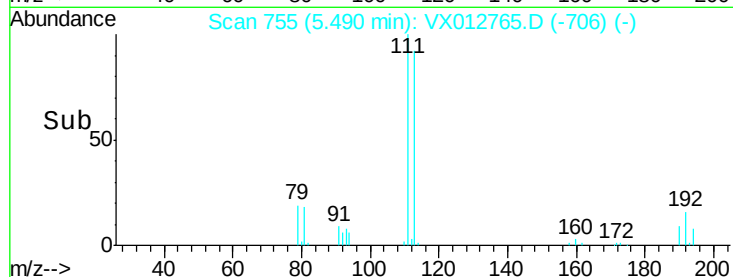
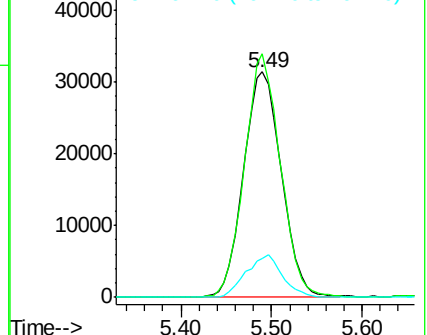
192 18.1 14.4 21.6



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: 5.001 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.14 min

Lab File: VX012765.D

Acq: 02 Oct 2019 17:13

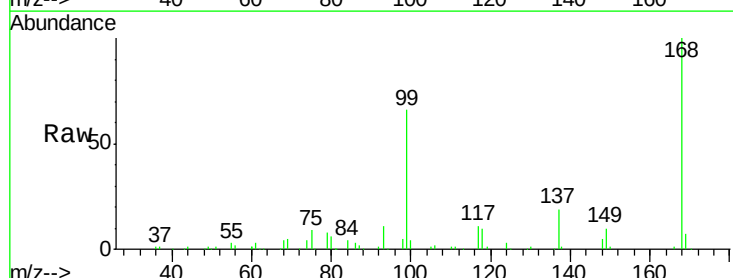
Tgt Ion: 75 Resp: 14323

Ion Ratio Lower Upper

75 100

110 9.6 16.7 50.0#

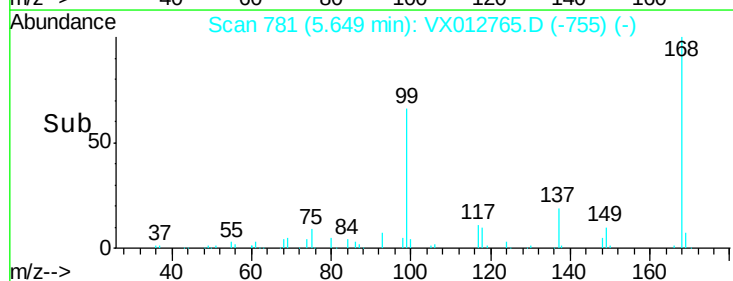
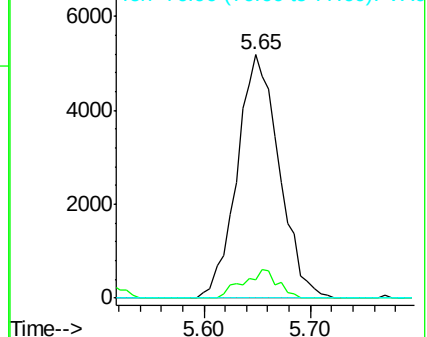
77 0.0 24.2 36.2#

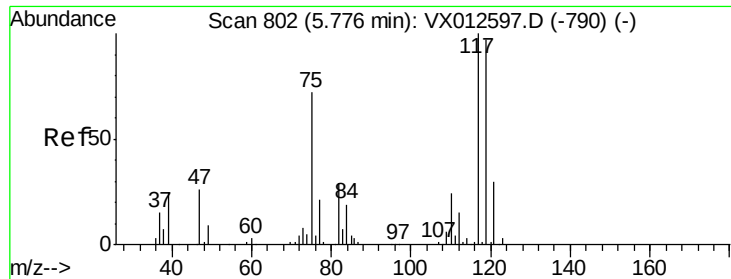


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0

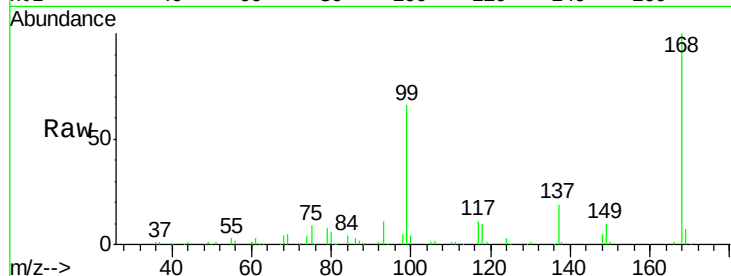




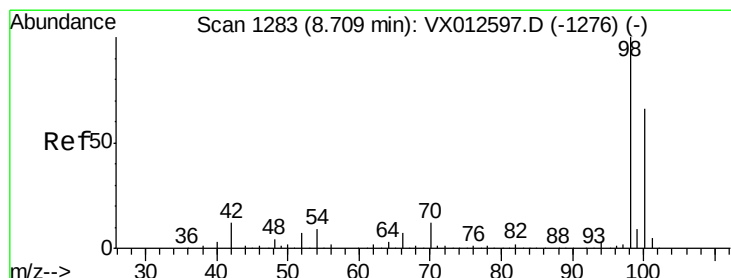
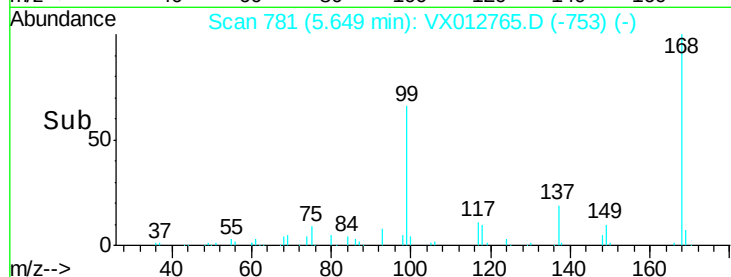
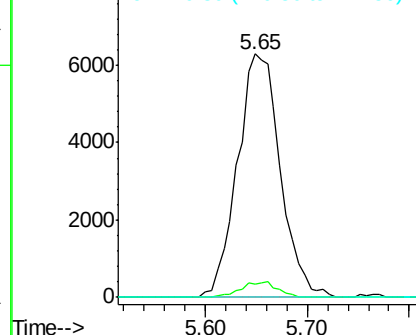
#38
Carbon Tetrachloride
Concen: 6.300 ug/l
RT: 5.65 min Scan# 781
Delta R.T. -0.13 min
Lab File: VX012765.D
Acq: 02 Oct 2019 17:13

Instrument :
MSVOA_X
ClientSampleId :
OUTFALL001-191001

Tot Ion:117 Resp: 18332
Ion Ratio Lower Upper
117 100
119 5.5 75.7 113.5#
121 0.0 24.2 36.4#

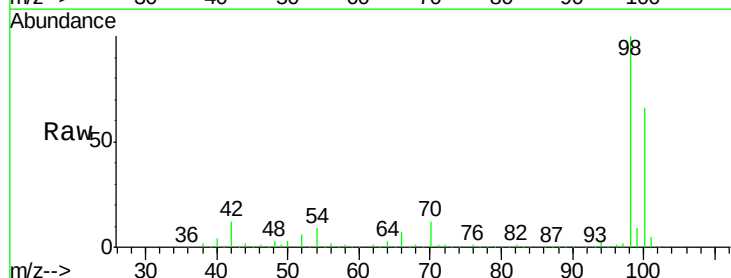


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

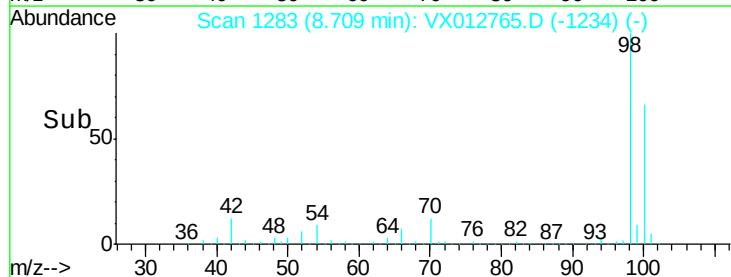
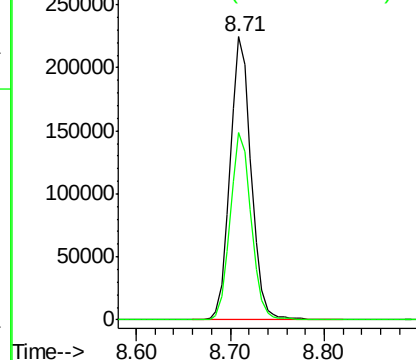


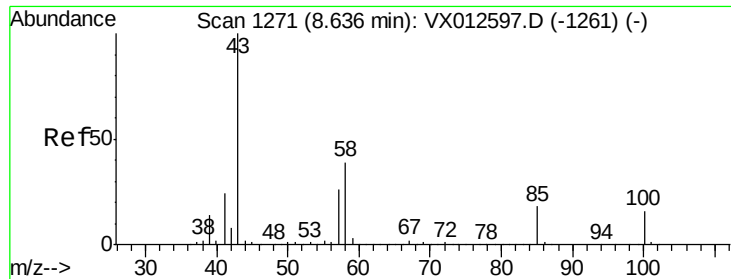
#50
Toluene-d8
Concen: 51.137 ug/l
RT: 8.71 min Scan# 1283
Delta R.T. 0.00 min
Lab File: VX012765.D
Acq: 02 Oct 2019 17:13

Tgt Ion: 98 Resp: 348512
Ion Ratio Lower Upper
98 100
100 66.1 53.4 80.2



Abundance Ion 98.00 (97.70 to 98.70): VX0
Ion 100.00 (99.70 to 100.70): V





#51

4-Methyl-2-Pentanone

Concen: 0.475 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.07 min

Lab File: VX012765.D

Acq: 02 Oct 2019 17:13

Instrument :

MSVOA_X

ClientSampleId :

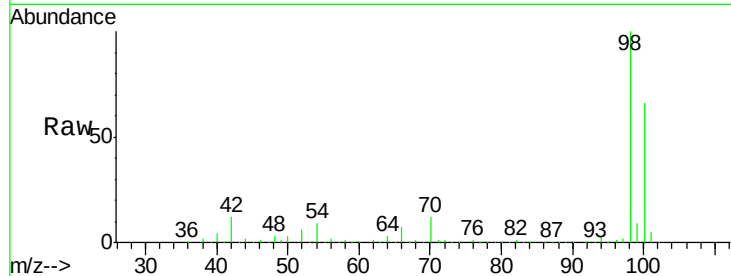
OUTFALL001-191001

Tot Ion: 43 Resp: 1642

Ion Ratio Lower Upper

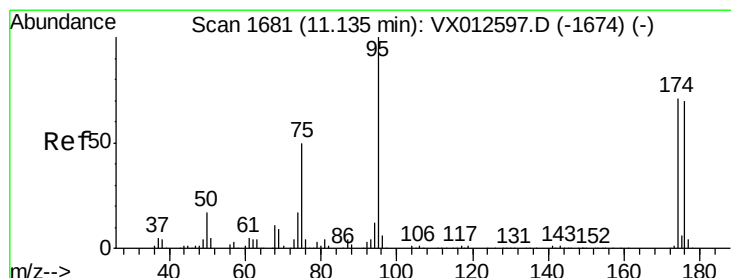
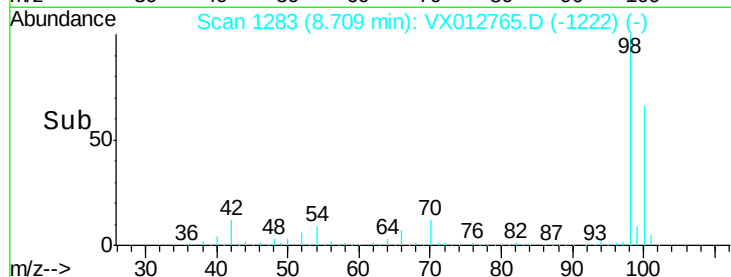
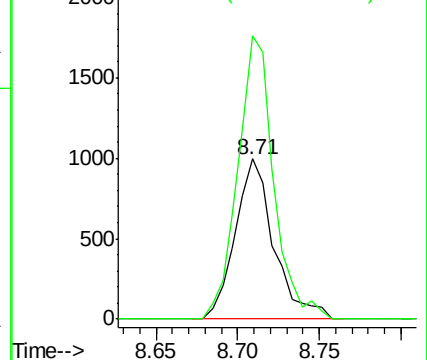
43 100

58 165.0 29.8 44.6#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#62

4-Bromofluorobenzene

Concen: 41.016 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.00 min

Lab File: VX012765.D

Acq: 02 Oct 2019 17:13

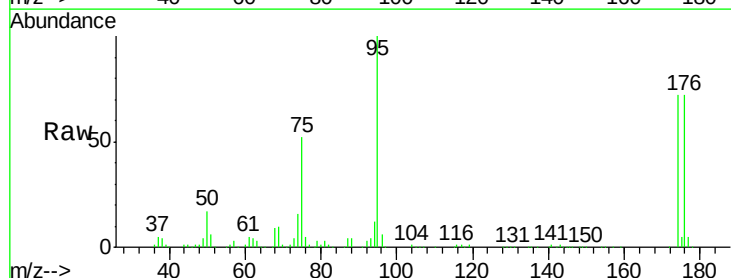
Tgt Ion: 95 Resp: 109915

Ion Ratio Lower Upper

95 100

174 70.4 0.0 140.0

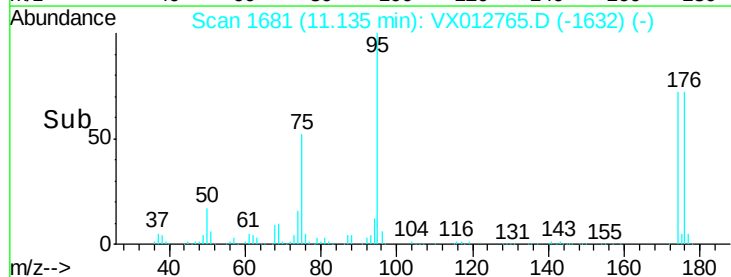
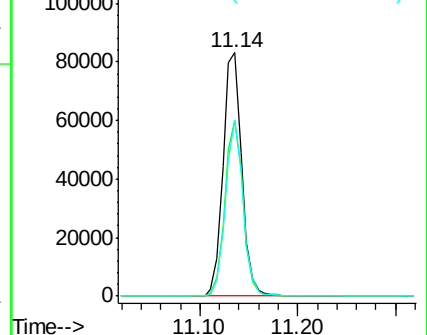
176 68.0 0.0 135.4

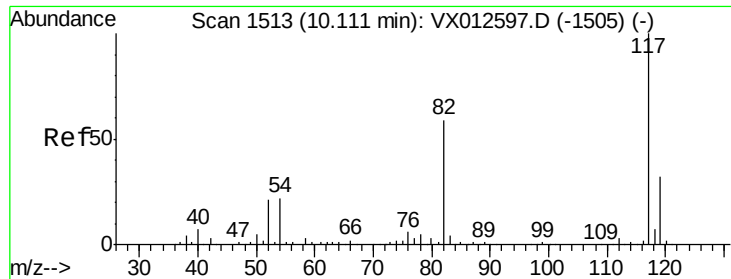


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

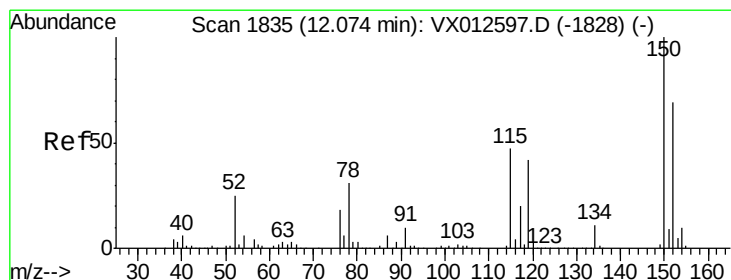
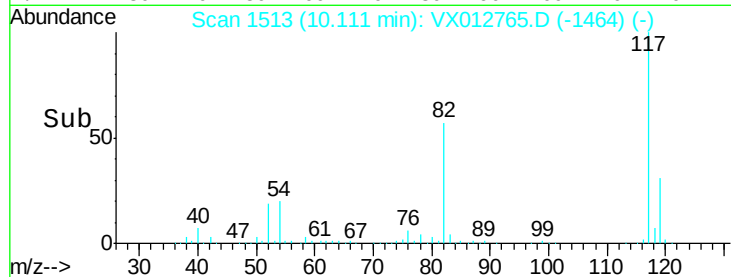
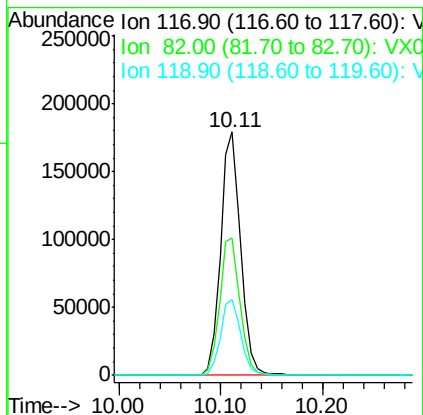
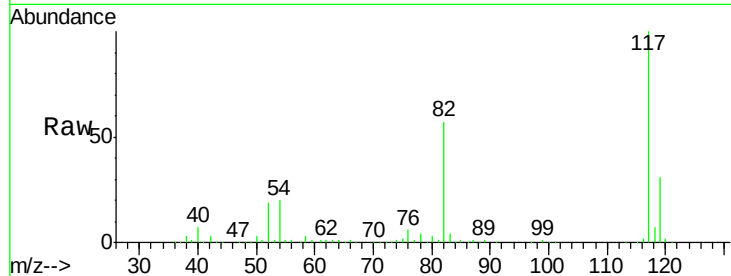




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. 0.00 min
Lab File: VX012765.D
Acq: 02 Oct 2019 17:13

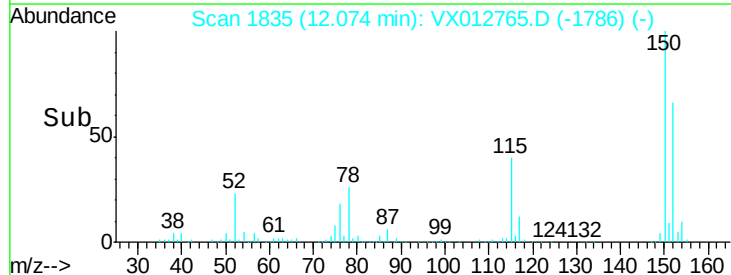
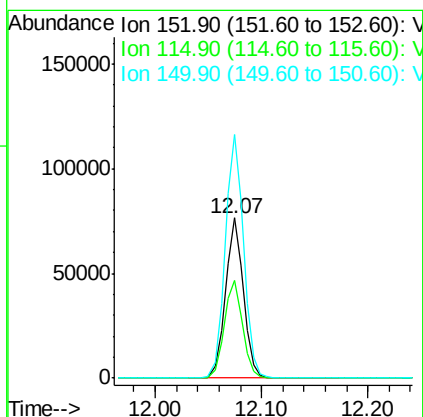
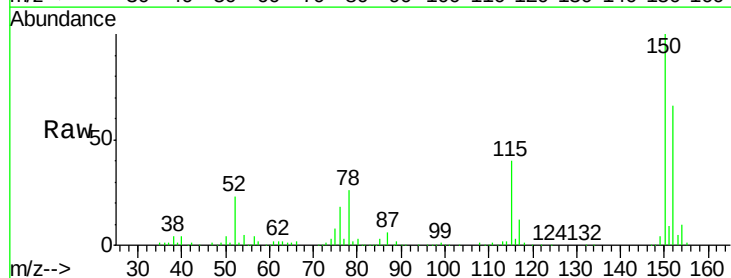
Instrument :
MSVOA_X
ClientSampleId :
OUTFALL001-191001

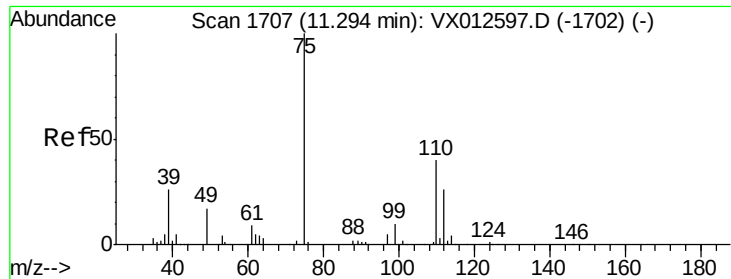
Tot Ion:117 Resp: 244949
Ion Ratio Lower Upper
117 100
82 56.6 45.9 68.9
119 31.4 25.3 37.9



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1835
Delta R.T. 0.00 min
Lab File: VX012765.D
Acq: 02 Oct 2019 17:13

Tgt Ion:152 Resp: 90093
Ion Ratio Lower Upper
152 100
115 62.1 44.1 132.3
150 155.8 0.0 343.8





#76

1,2,3-Trichloropropane

Concen: 23.502 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. -0.16 min

Lab File: VX012765.D

Acq: 02 Oct 2019 17:13

Instrument :

MSVOA_X

ClientSampleId :

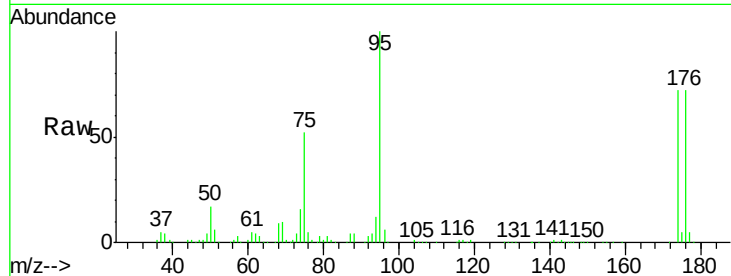
OUTFALL001-191001

Tot Ion: 75 Resp: 56009

Ion Ratio Lower Upper

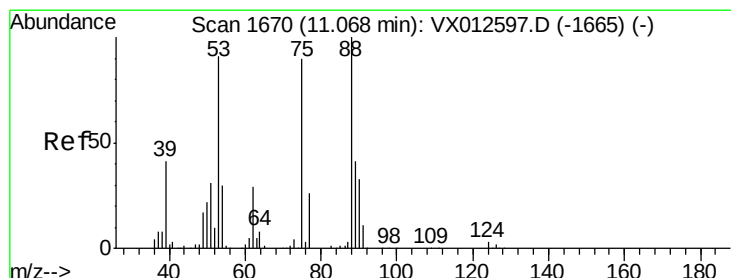
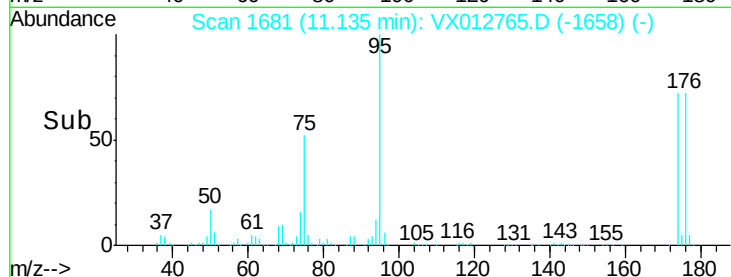
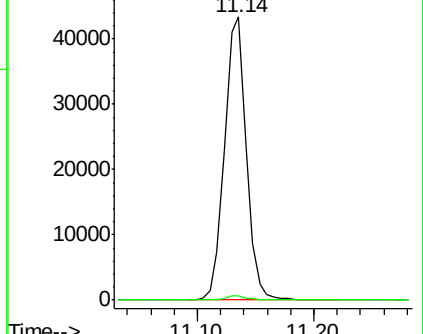
75 100

77 1.5 19.7 59.0#



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: 67.351 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.07 min

Lab File: VX012765.D

Acq: 02 Oct 2019 17:13

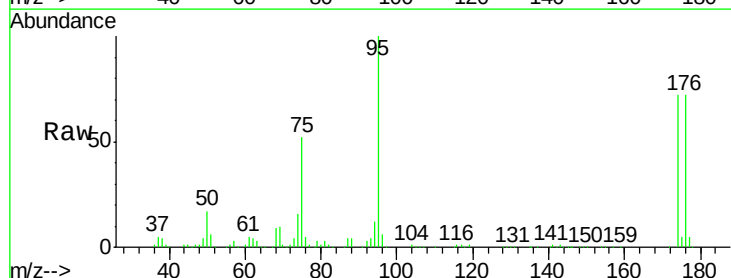
Tgt Ion: 75 Resp: 56009

Ion Ratio Lower Upper

75 100

53 0.0 83.6 125.4#

89 0.0 36.3 54.5#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0

