

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX052819\
 Data File : VX009923.D
 Acq On : 28 May 2019 18:30
 Operator : JC/SP
 Sample : K3015-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 OUTFALL001-WK-4

Quant Time: May 29 04:12:34 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X052819W.M
 Quant Title : SW846 8260
 QLast Update : Wed May 29 04:00:56 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	182220	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	294028	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	264064	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	111363	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.07	65	124460	48.35	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.70%	
35) Dibromofluoromethane	5.50	113	90626	49.03	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.06%	
50) Toluene-d8	8.71	98	374664	49.91	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.82%	
62) 4-Bromofluorobenzene	11.13	95	123862	45.94	ug/l	0.00
Spiked Amount	50.000		Recovery	=	91.88%	

Target Compounds

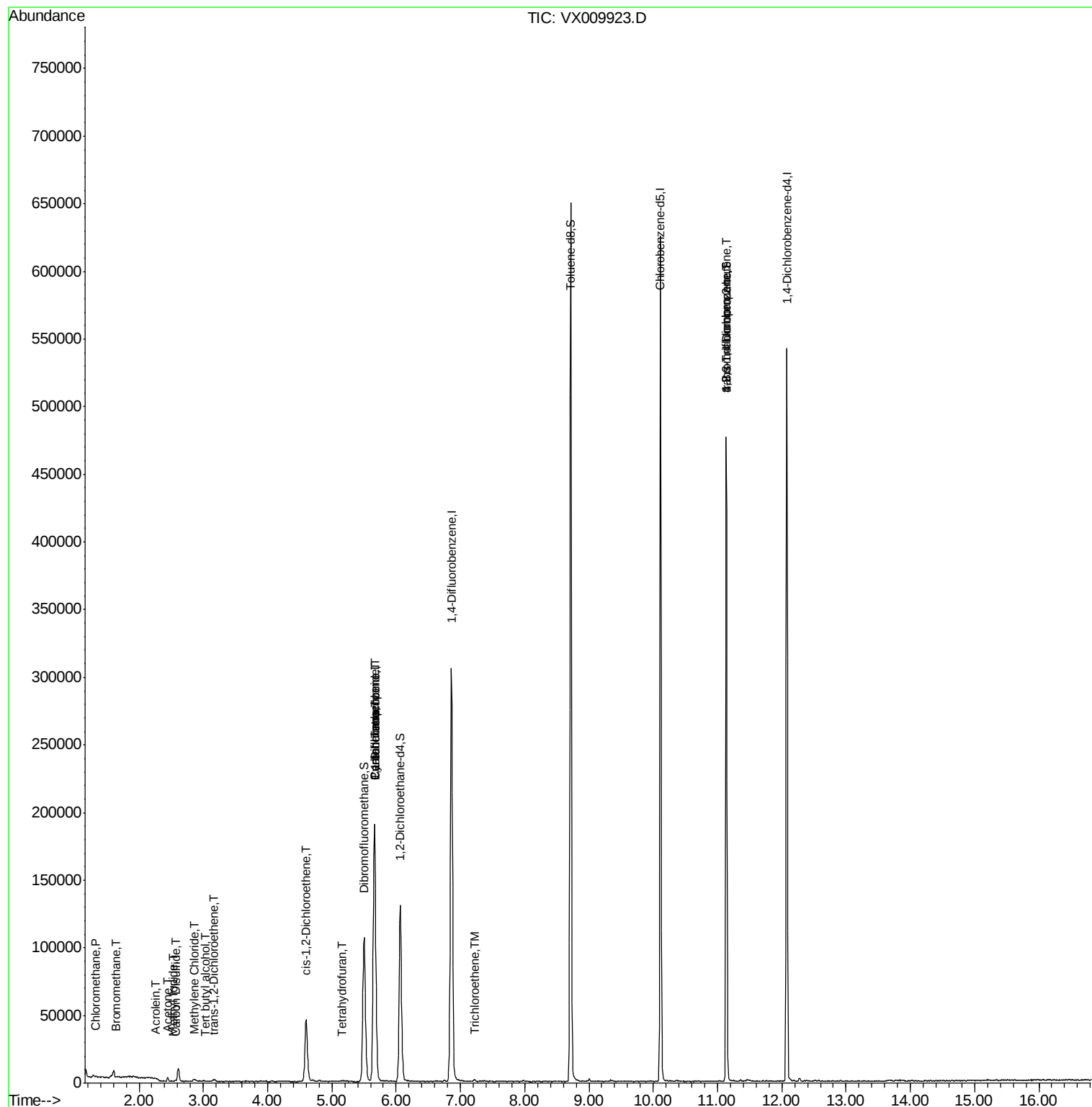
						Qvalue
3) Chloromethane	1.33	50	713	0.238	ug/l	98
5) Bromomethane	1.64	94	367	0.224	ug/l #	60
10) Methyl Iodide	2.53	142	203	4.739	ug/l #	42
11) Tert butyl alcohol	3.03	59	682	1.077	ug/l	100
13) Acrolein	2.27	56	174	21.452	ug/l #	14
16) Acetone	2.45	43	3503	2.355	ug/l	93
17) Carbon Disulfide	2.57	76	781	0.523	ug/l #	65
20) Methylene Chloride	2.85	84	709	0.311	ug/l #	82
21) trans-1,2-Dichloroethene	3.17	96	467	0.227	ug/l #	77
27) cis-1,2-Dichloroethene	4.60	96	28509	12.028	ug/l	89
29) Tetrahydrofuran	5.16	42	646	0.435	ug/l #	84
31) Cyclohexane	5.66	56	4528	1.156	ug/l #	1
36) 1,1-Dichloropropene	5.67	75	14412	4.831	ug/l #	50
38) Carbon Tetrachloride	5.67	117	17839	6.920	ug/l #	17
44) Trichloroethene	7.22	130	571	0.266	ug/l	73
76) 1,2,3-Trichloropropane	11.13	75	64121	24.078	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.13	75	64121	59.573	ug/l #	10

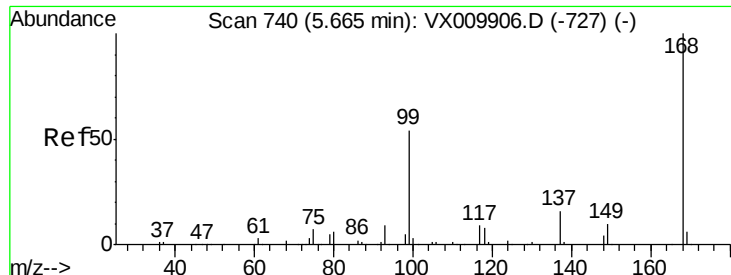
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed May 29 04:00:56 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.00 min

Lab File: VX009923.D

Acq: 28 May 2019 18:30

Instrument :

MSVOA_X

ClientSampleId :

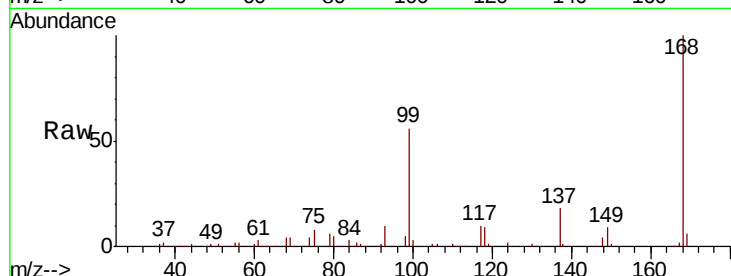
OUTFALL001-WK-4

Tot Ion:168 Resp: 182220

Ion Ratio Lower Upper

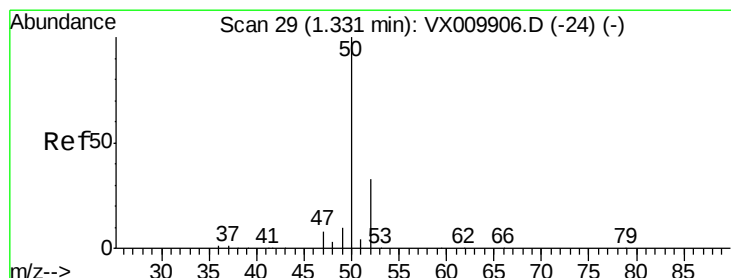
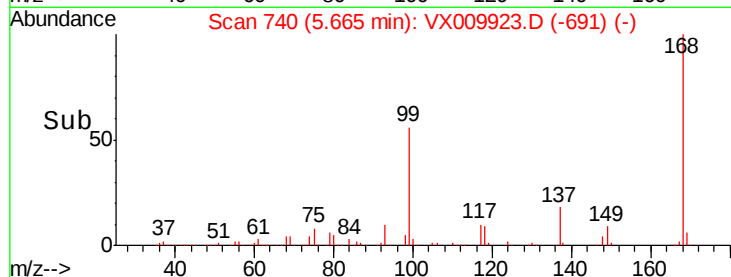
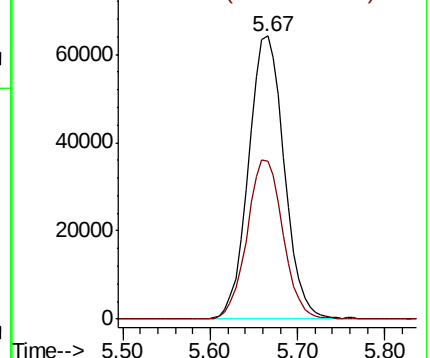
168 100

99 56.0 43.0 64.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#3

Chloromethane

Concen: 0.238 ug/l

RT: 1.33 min Scan# 29

Delta R.T. 0.00 min

Lab File: VX009923.D

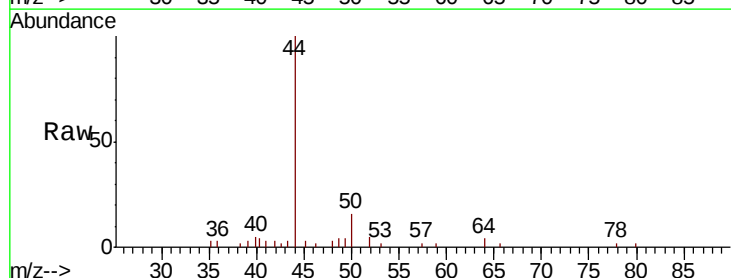
Acq: 28 May 2019 18:30

Tgt Ion: 50 Resp: 713

Ion Ratio Lower Upper

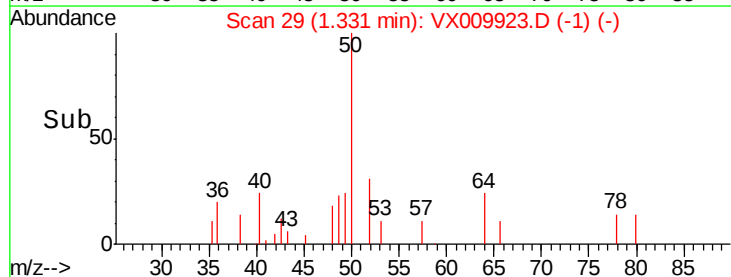
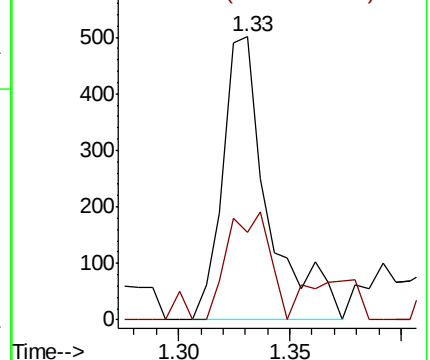
50 100

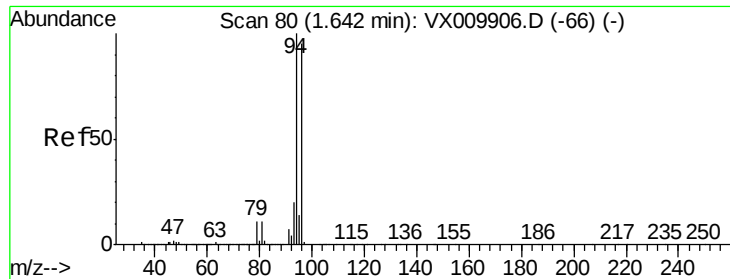
52 31.1 26.0 39.0



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#5

Bromomethane

Concen: 0.224 ug/l

RT: 1.64 min Scan# 80

Delta R.T. 0.00 min

Lab File: VX009923.D

Acq: 28 May 2019 18:30

Instrument :

MSVOA_X

ClientSampleId :

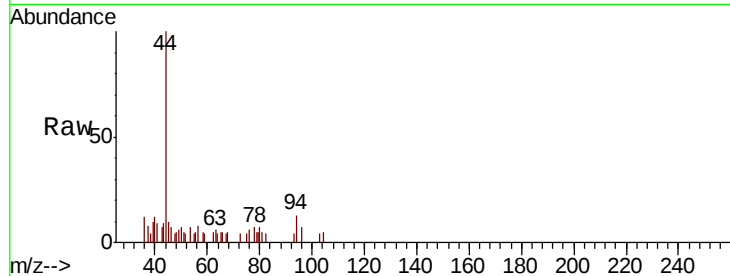
OUTFALL001-WK-4

Tot Ion: 94 Resp: 367

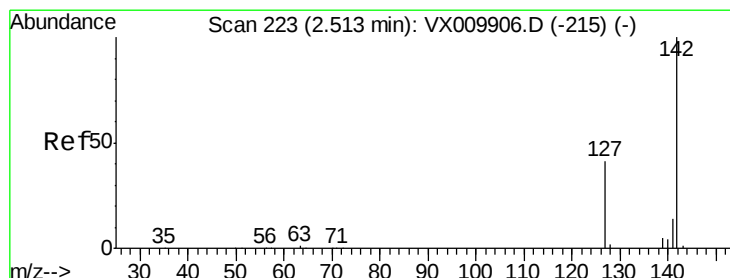
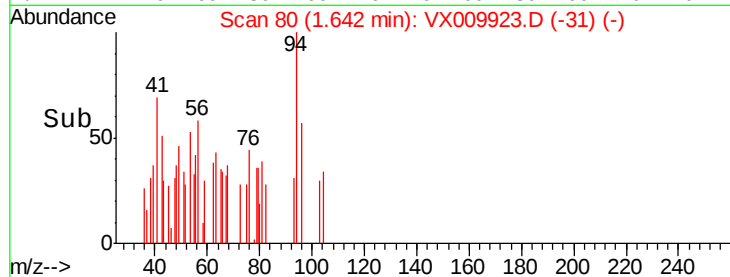
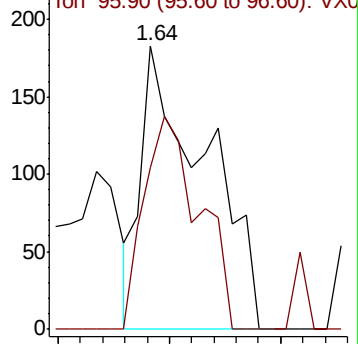
Ion Ratio Lower Upper

94 100

96 56.8 76.2 114.4#



Abundance Ion 93.90 (93.60 to 94.60): VX0



#10

Methyl Iodide

Concen: 4.739 ug/l

RT: 2.53 min Scan# 225

Delta R.T. 0.01 min

Lab File: VX009923.D

Acq: 28 May 2019 18:30

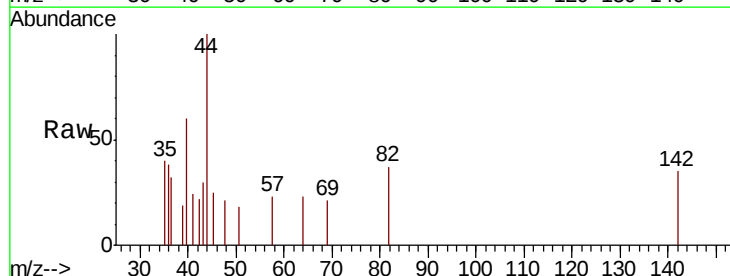
Tgt Ion: 142 Resp: 203

Ion Ratio Lower Upper

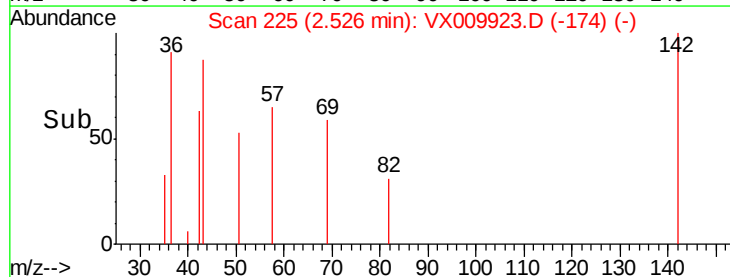
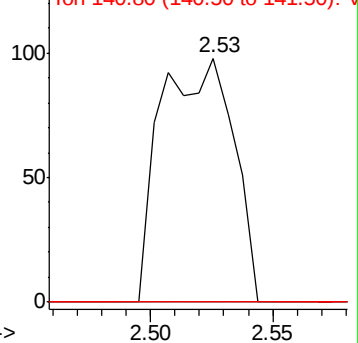
142 100

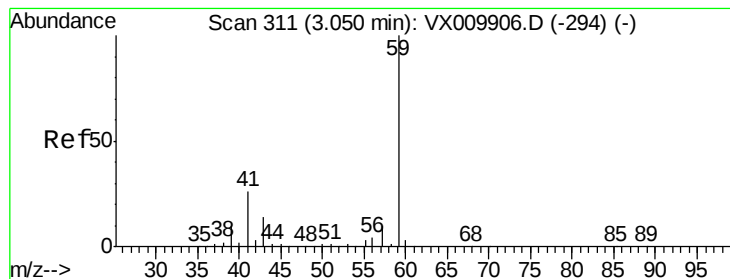
127 0.0 33.0 49.4#

141 0.0 11.4 17.0#



Abundance Ion 141.80 (141.50 to 142.50): V



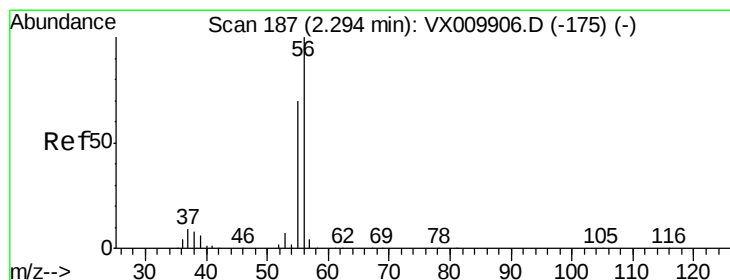
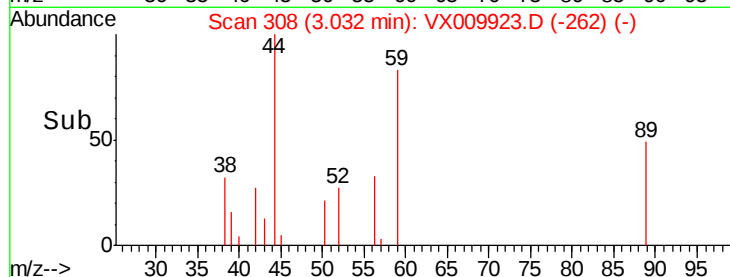
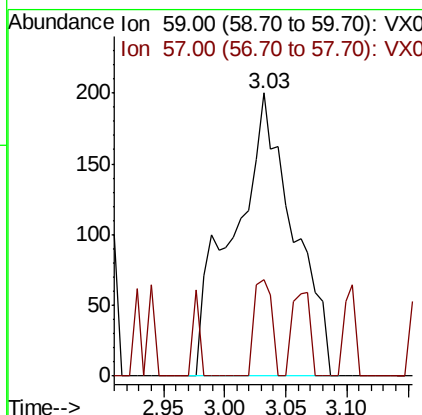
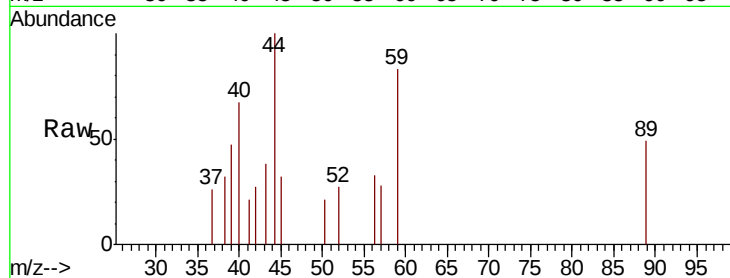


#11

Tert butyl alcohol
 Concen: 1.077 ug/l
 RT: 3.03 min Scan# 308
 Delta R.T. -0.02 min
 Lab File: VX009923.D
 Acq: 28 May 2019 18:30

Instrument :
 MSVOA_X
 ClientSampleId :
 OUTFALL001-WK-4

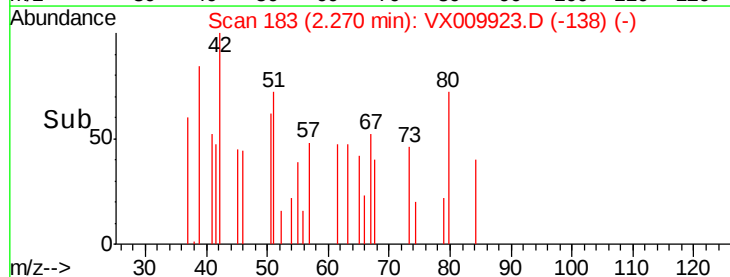
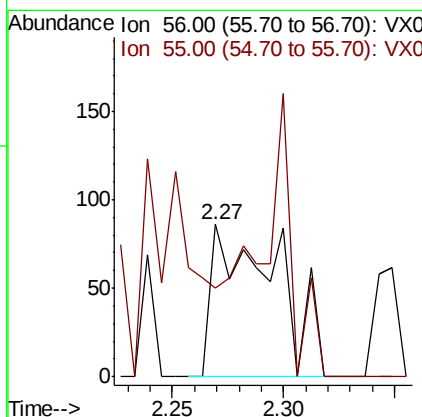
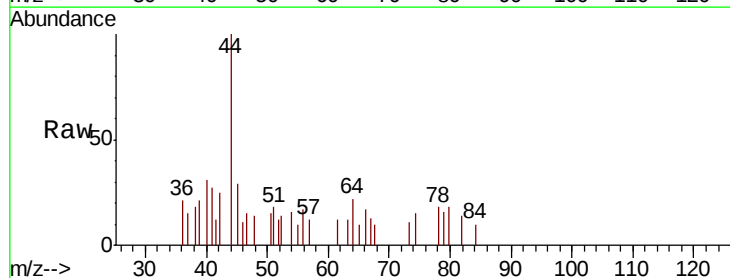
Tot Ion: 59 Resp: 682
 Ion Ratio Lower Upper
 59 100
 57 10.3 8.2 12.2

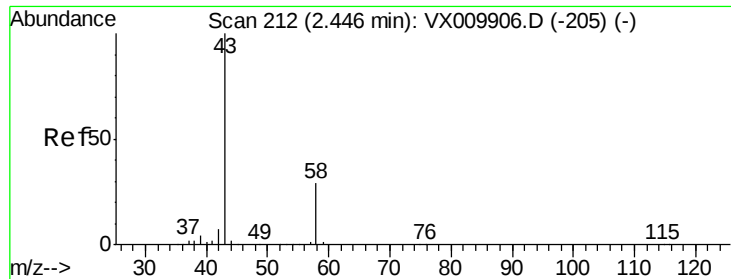


#13

Acrolein
 Concen: 21.452 ug/l
 RT: 2.27 min Scan# 183
 Delta R.T. -0.02 min
 Lab File: VX009923.D
 Acq: 28 May 2019 18:30

Tgt Ion: 56 Resp: 174
 Ion Ratio Lower Upper
 56 100
 55 0.0 57.0 85.4#





#16

Acetone

Concen: 2.355 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX009923.D

Acq: 28 May 2019 18:30

Instrument :

MSVOA_X

ClientSampleId :

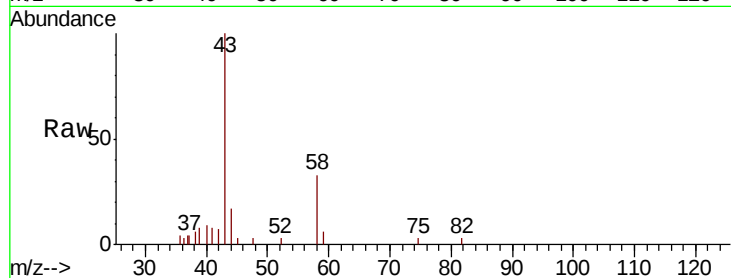
OUTFALL001-WK-4

Tot Ion: 43 Resp: 3503

Ion Ratio Lower Upper

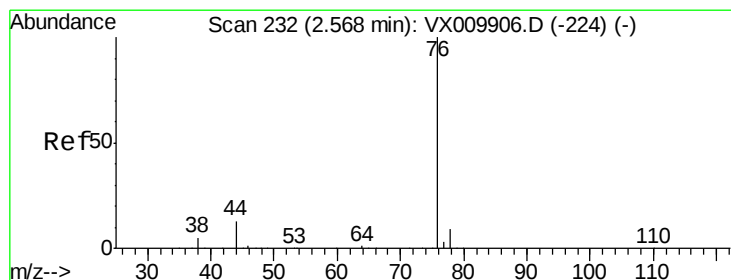
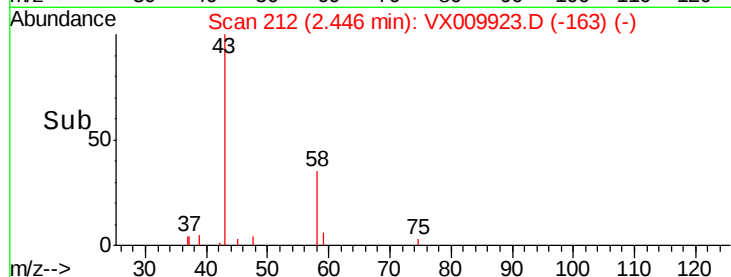
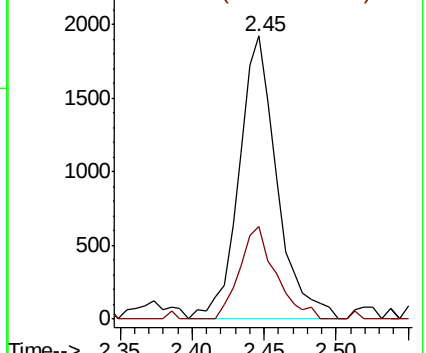
43 100

58 32.6 23.2 34.8



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#17

Carbon Disulfide

Concen: 0.523 ug/l

RT: 2.57 min Scan# 232

Delta R.T. 0.00 min

Lab File: VX009923.D

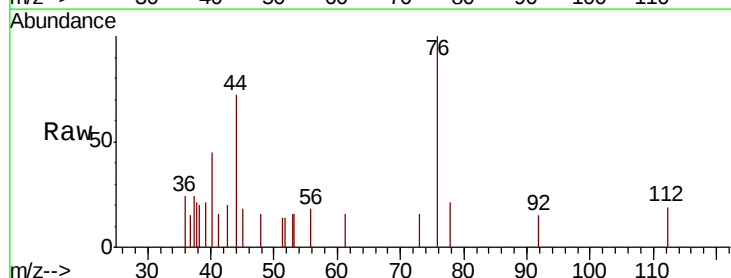
Acq: 28 May 2019 18:30

Tgt Ion: 76 Resp: 781

Ion Ratio Lower Upper

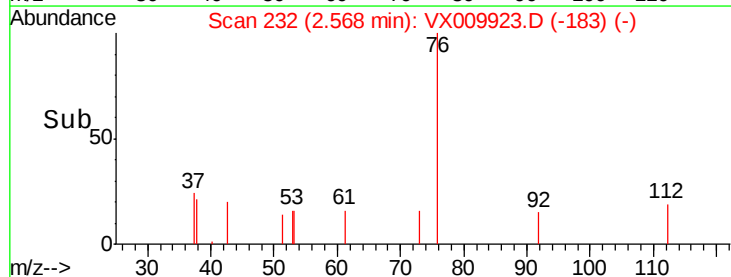
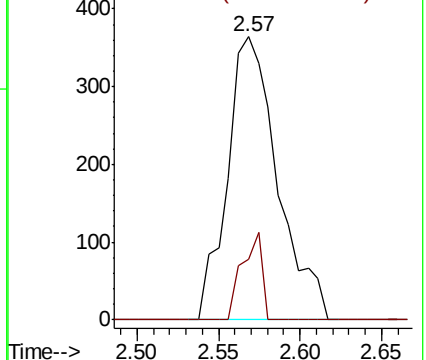
76 100

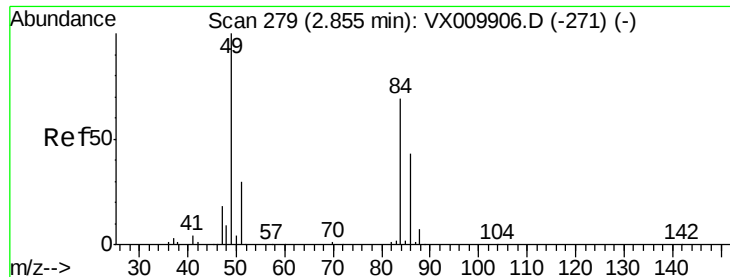
78 21.4 7.0 10.6#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

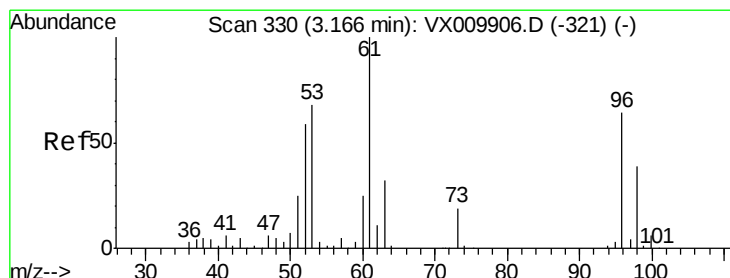
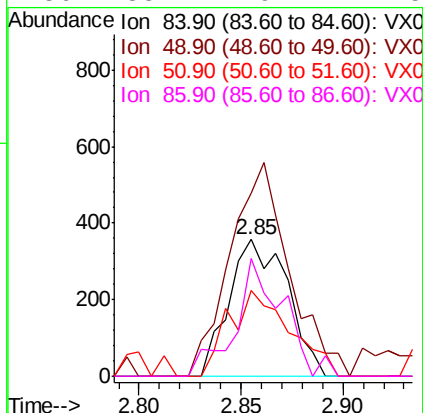
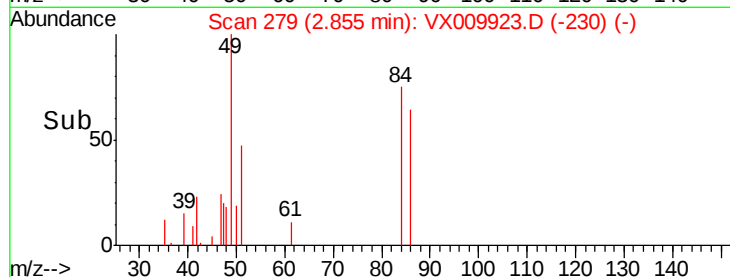
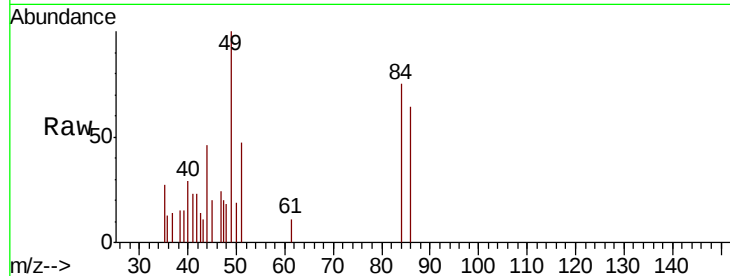




#20
Methvlene Chloride
Concen: 0.311 ug/l
RT: 2.85 min Scan# 279
Delta R.T. 0.00 min
Lab File: VX009923.D
Acq: 28 May 2019 18:30

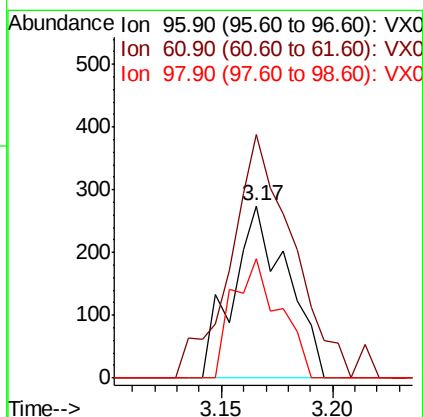
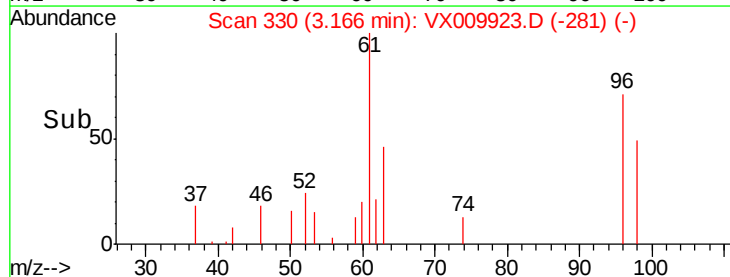
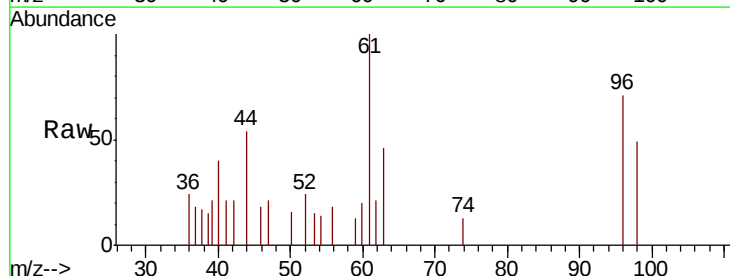
Instrument :
MSVOA_X
ClientSampleId :
OUTFALL001-WK-4

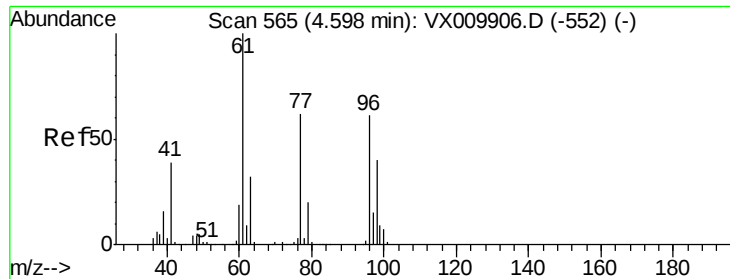
Tot Ion: 84 Resp: 709
Ion Ratio Lower Upper
84 100
49 133.9 115.8 173.6
51 63.0 34.4 51.6#
86 85.7 49.7 74.5#



#21
trans-1,2-Dichloroethene
Concen: 0.227 ug/l
RT: 3.17 min Scan# 330
Delta R.T. 0.00 min
Lab File: VX009923.D
Acq: 28 May 2019 18:30

Tgt Ion: 96 Resp: 467
Ion Ratio Lower Upper
96 100
61 121.5 125.7 188.5#
98 69.7 49.0 73.6



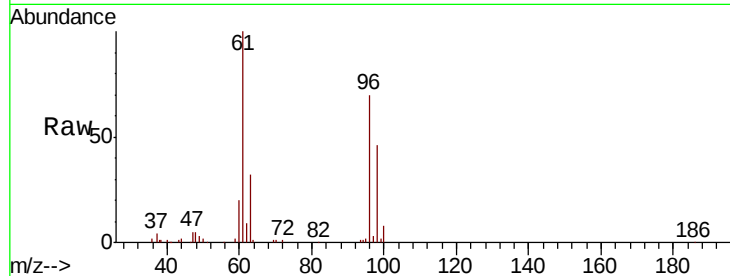


#27

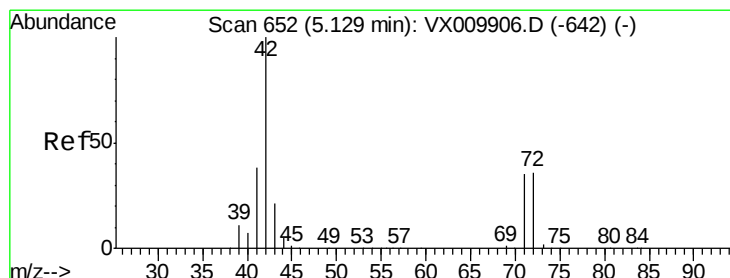
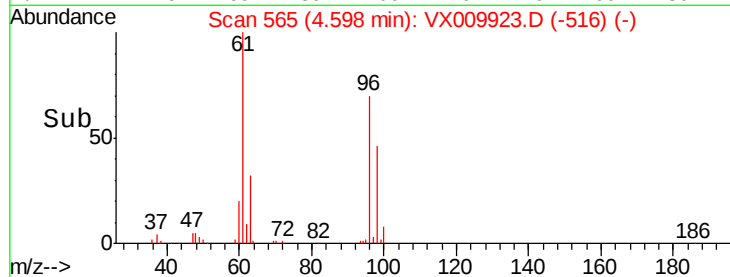
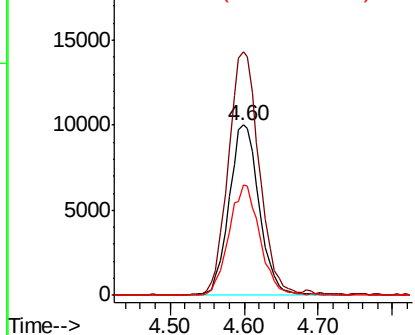
cis-1,2-Dichloroethene
 Concen: 12.028 ug/l
 RT: 4.60 min Scan# 565
 Delta R.T. 0.00 min
 Lab File: VX009923.D
 Acq: 28 May 2019 18:30

Instrument :
 MSVOA_X
 ClientSampleId :
 OUTFALL001-WK-4

Tot Ion	Ratio	Lower	Upper
96	100		
61	145.9	0.0	334.0
98	65.7	0.0	131.6



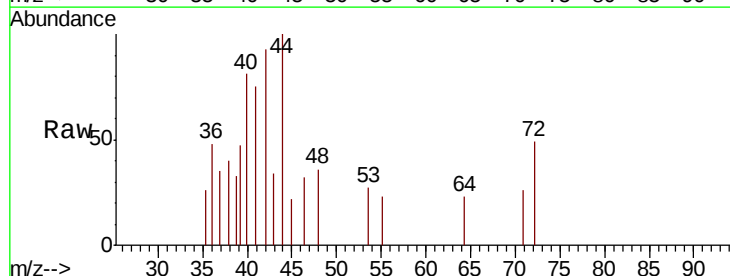
Abundance Ion 95.90 (95.60 to 96.60): VX0
 Ion 60.90 (60.60 to 61.60): VX0
 Ion 97.90 (97.60 to 98.60): VX0



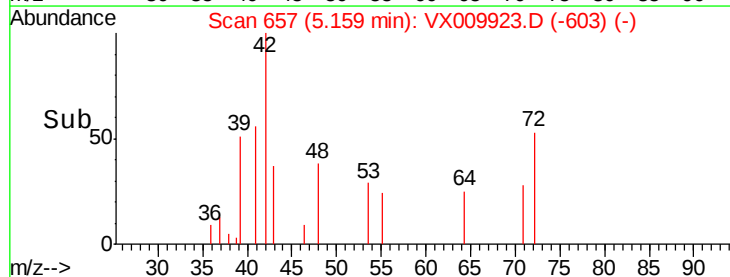
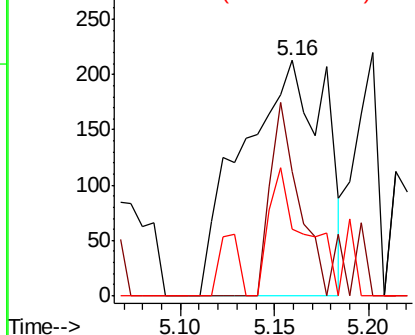
#29

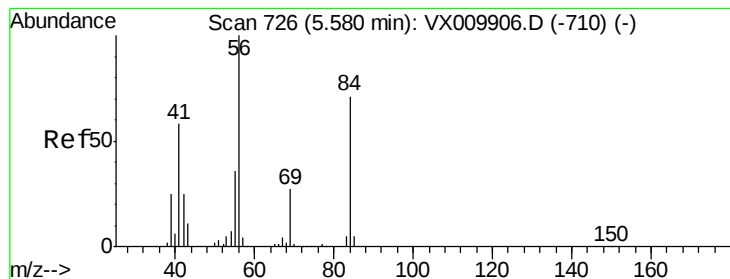
Tetrahydrofuran
 Concen: 0.435 ug/l
 RT: 5.16 min Scan# 657
 Delta R.T. 0.03 min
 Lab File: VX009923.D
 Acq: 28 May 2019 18:30

Tgt Ion	Ratio	Lower	Upper
42	100		
72	28.5	29.2	43.8#
71	23.7	27.6	41.4#



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: 1.156 ug/l

RT: 5.66 min Scan# 739

Delta R.T. 0.08 min

Lab File: VX009923.D

Acq: 28 May 2019 18:30

Instrument :

MSVOA_X

ClientSampleId :

OUTFALL001-WK-4

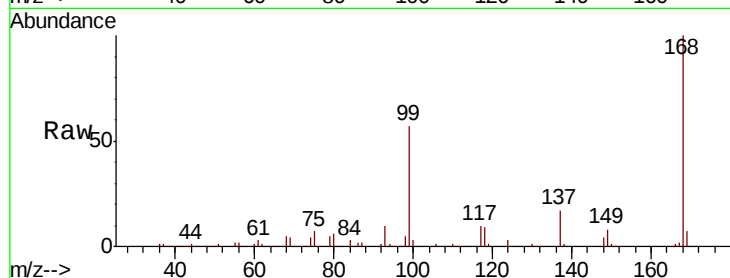
Tot Ion: 56 Resp: 4528

Ion Ratio Lower Upper

56 100

69 180.7 21.6 32.4#

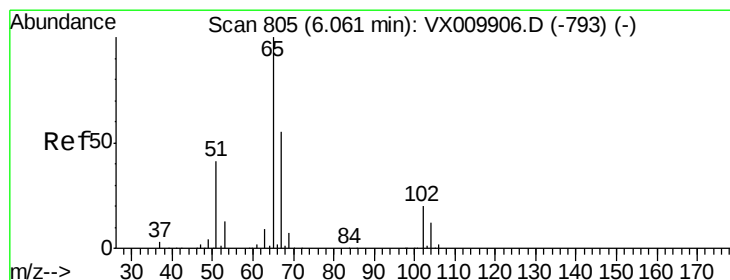
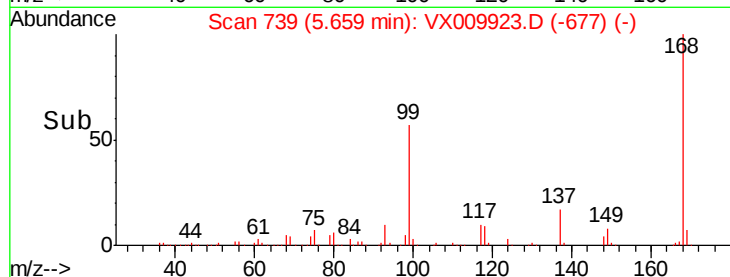
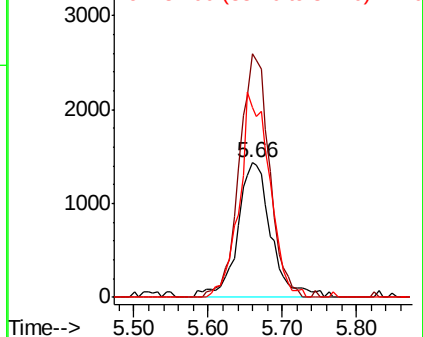
84 140.6 56.8 85.2#



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: 48.352 ug/l

RT: 6.07 min Scan# 806

Delta R.T. 0.01 min

Lab File: VX009923.D

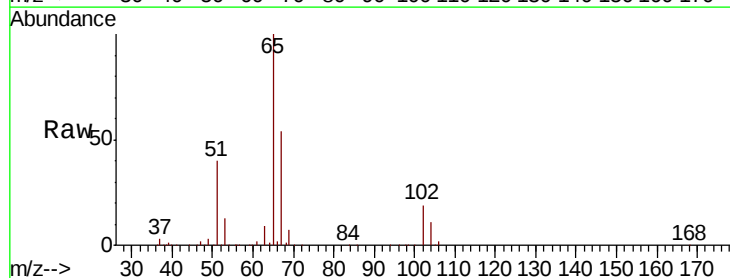
Acq: 28 May 2019 18:30

Tgt Ion: 65 Resp: 124460

Ion Ratio Lower Upper

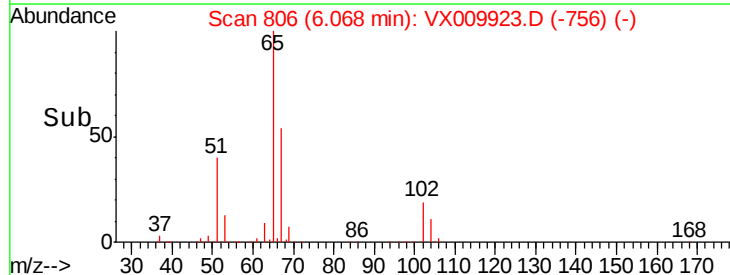
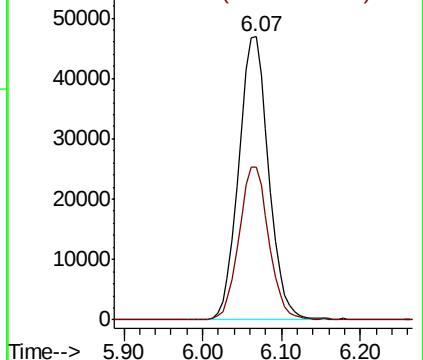
65 100

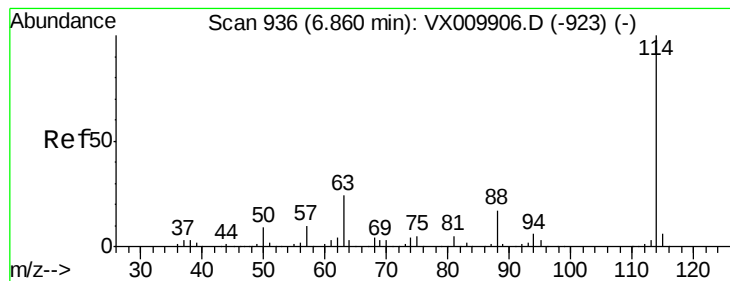
67 53.7 0.0 108.4



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. 0.00 min

Lab File: VX009923.D

Acq: 28 May 2019 18:30

Instrument :

MSVOA_X

ClientSampleId :

OUTFALL001-WK-4

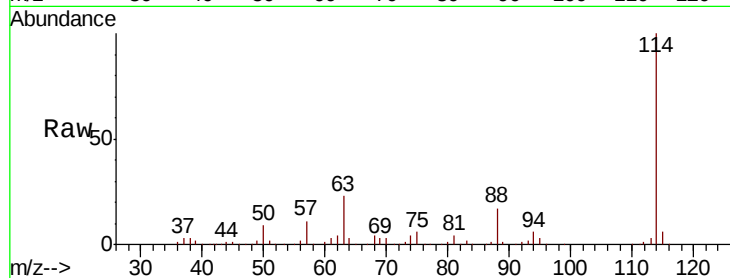
Tot Ion:114 Resp: 294028

Ion Ratio Lower Upper

114 100

63 23.2 0.0 47.4

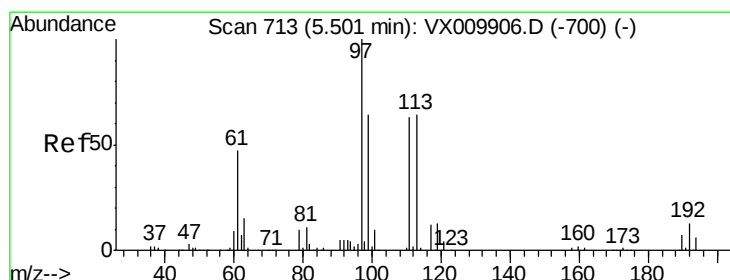
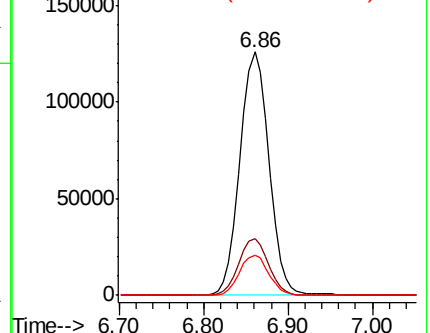
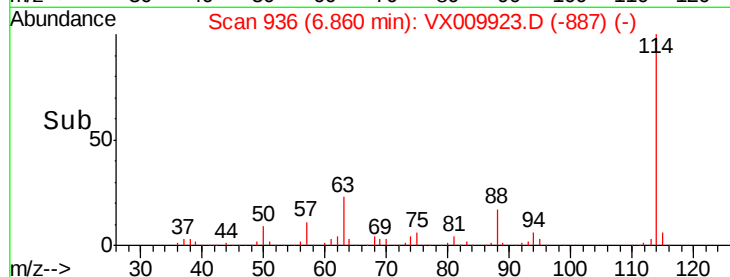
88 16.6 0.0 33.0



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: 49.025 ug/l

RT: 5.50 min Scan# 713

Delta R.T. 0.00 min

Lab File: VX009923.D

Acq: 28 May 2019 18:30

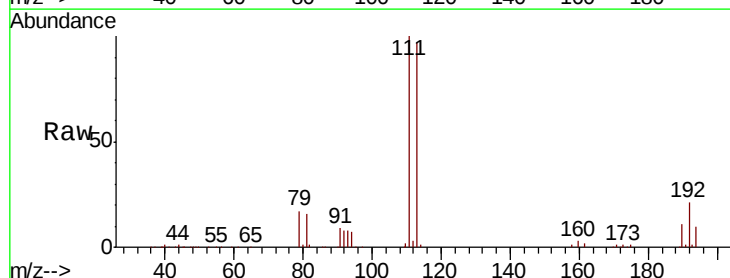
Tgt Ion:113 Resp: 90626

Ion Ratio Lower Upper

113 100

111 102.8 82.2 123.2

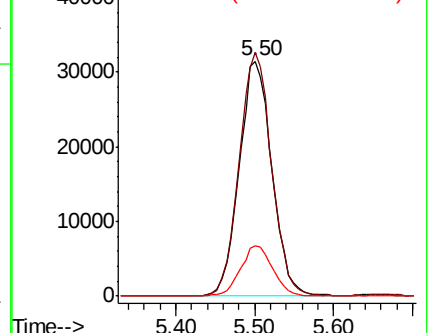
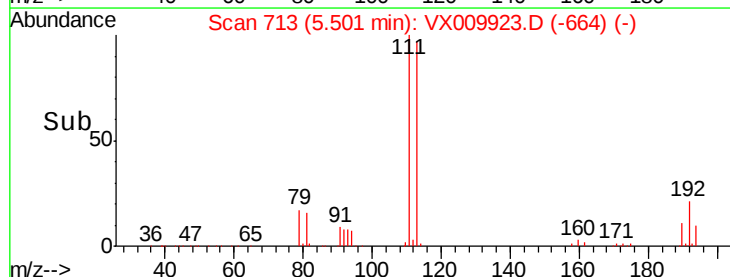
192 21.2 17.1 25.7

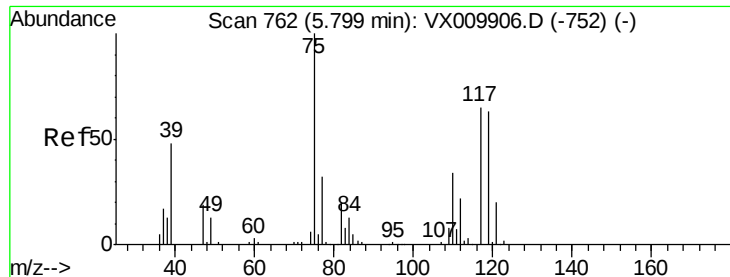


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

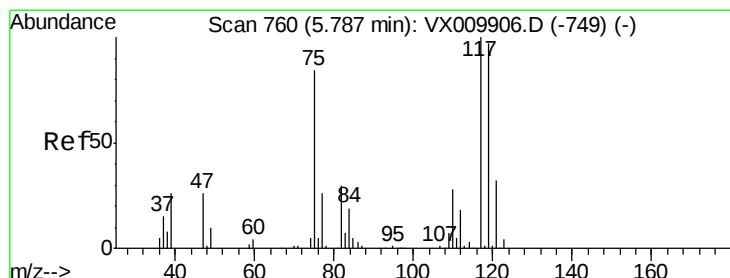
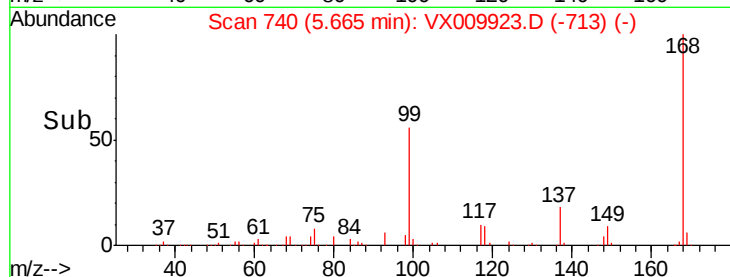
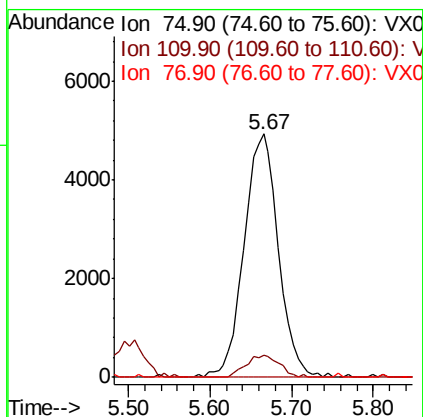
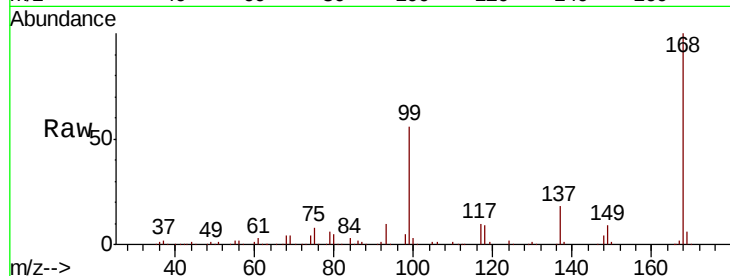




#36
 1,1-Dichloropropene
 Concen: 4.831 ug/l
 RT: 5.67 min Scan# 740
 Delta R.T. -0.13 min
 Lab File: VX009923.D
 Acq: 28 May 2019 18:30

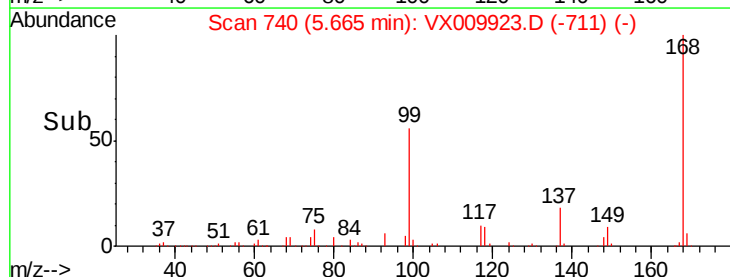
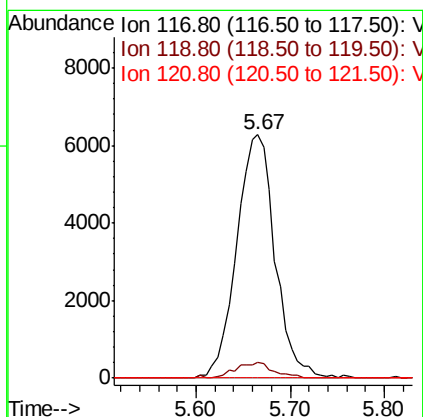
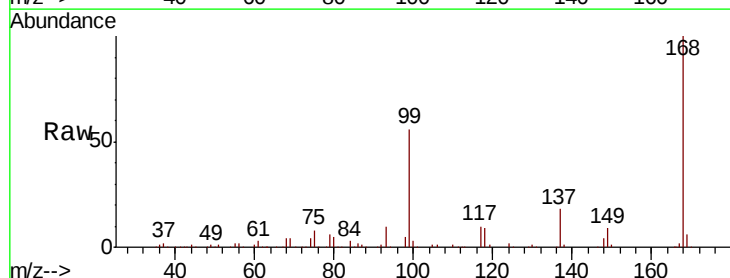
Instrument :
 MSVOA_X
 ClientSampleId :
 OUTFALL001-WK-4

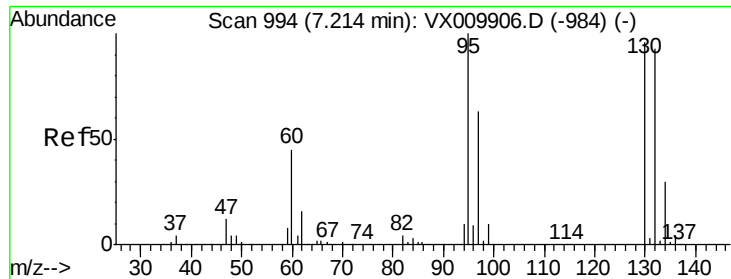
Tot Ion: 75 Resp: 14412
 Ion Ratio Lower Upper
 75 100
 110 8.9 16.7 50.1#
 77 0.0 25.0 37.4#



#38
 Carbon Tetrachloride
 Concen: 6.920 ug/l
 RT: 5.67 min Scan# 740
 Delta R.T. -0.12 min
 Lab File: VX009923.D
 Acq: 28 May 2019 18:30

Tgt Ion: 117 Resp: 17839
 Ion Ratio Lower Upper
 117 100
 119 6.5 77.3 115.9#
 121 0.0 25.4 38.0#

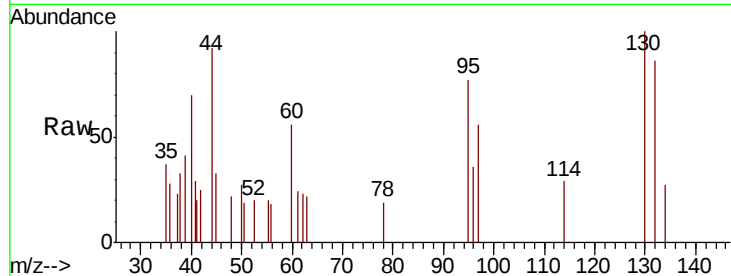




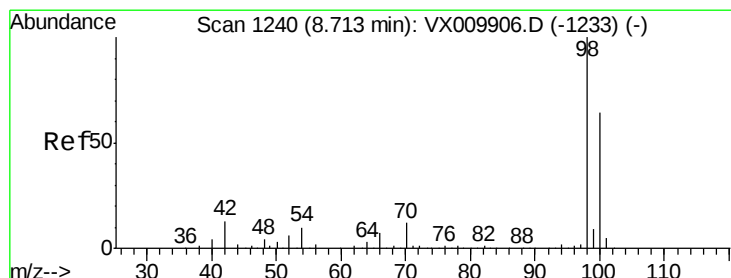
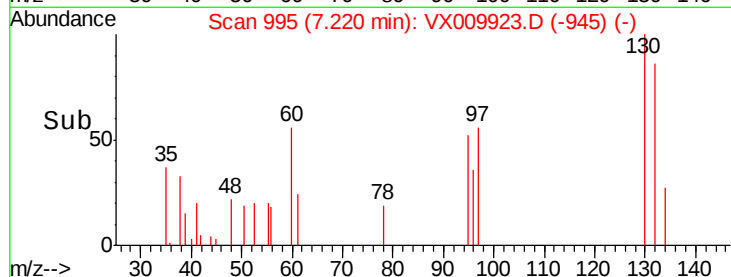
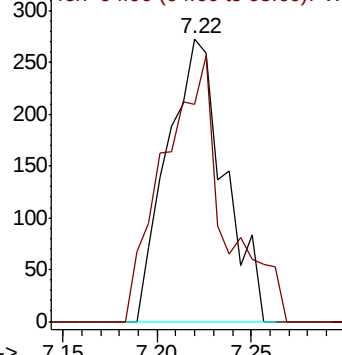
#44
 Trichloroethene
 Concen: 0.266 ug/l
 RT: 7.22 min Scan# 995
 Delta R.T. 0.01 min
 Lab File: VX009923.D
 Acq: 28 May 2019 18:30

Instrument :
 MSVOA_X
 ClientSampleId :
 OUTFALL001-WK-4

Tot Ion:130 Resp: 571
 Ion Ratio Lower Upper
 130 100
 95 76.6 0.0 207.4

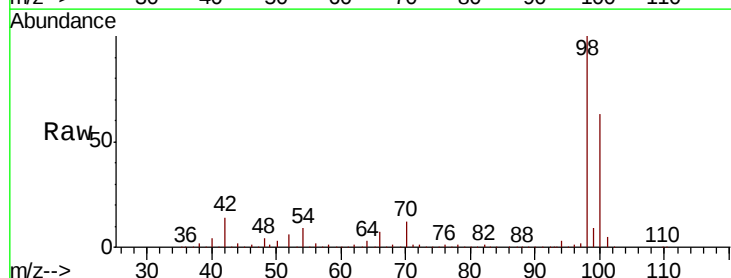


Abundance Ion 129.80 (129.50 to 130.50): V
 Ion 94.90 (94.60 to 95.60): VX0

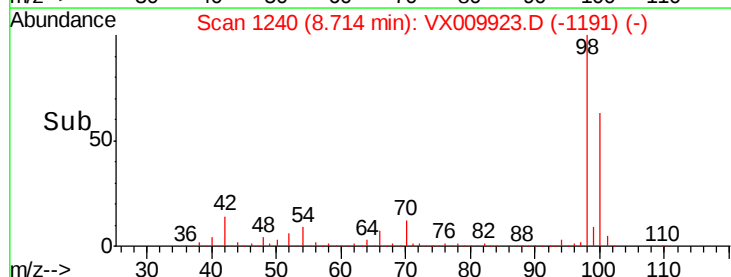
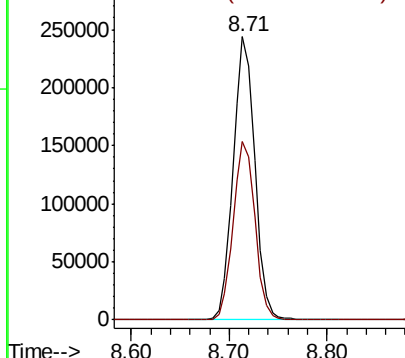


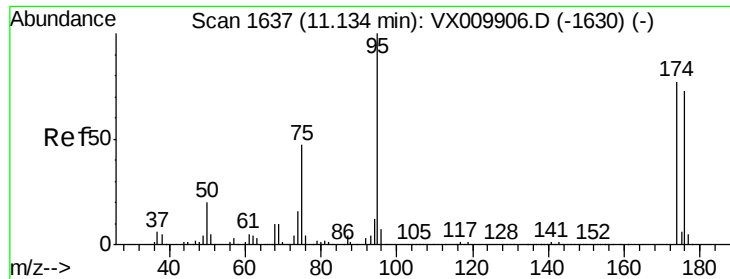
#50
 Toluene-d8
 Concen: 49.911 ug/l
 RT: 8.71 min Scan# 1240
 Delta R.T. 0.00 min
 Lab File: VX009923.D
 Acq: 28 May 2019 18:30

Tgt Ion: 98 Resp: 374664
 Ion Ratio Lower Upper
 98 100
 100 63.7 51.5 77.3



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

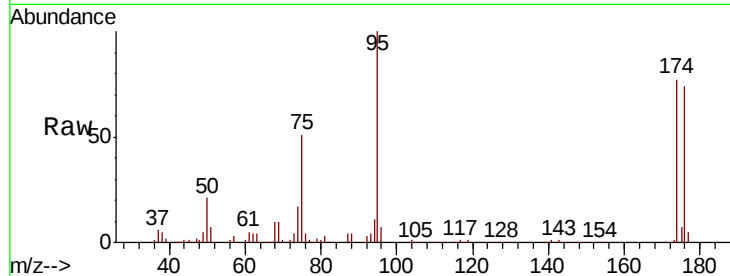




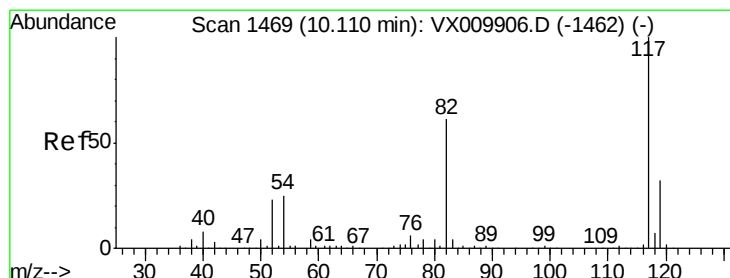
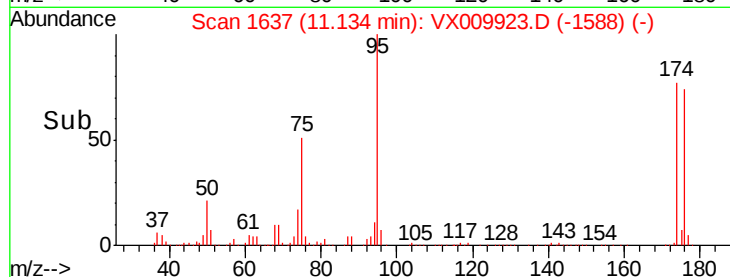
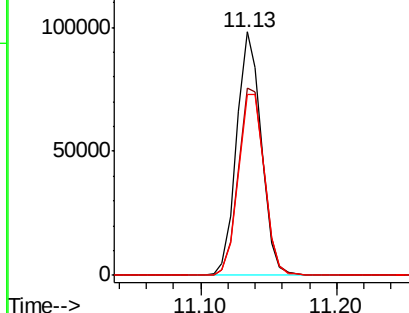
#62
 4-Bromofluorobenzene
 Concen: 45.939 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. 0.00 min
 Lab File: VX009923.D
 Acq: 28 May 2019 18:30

Instrument :
 MSVOA_X
 ClientSampleId :
 OUTFALL001-WK-4

Tot Ion: 95 Resp: 123862
 Ion Ratio Lower Upper
 95 100
 174 80.9 0.0 160.4
 176 78.9 0.0 154.6

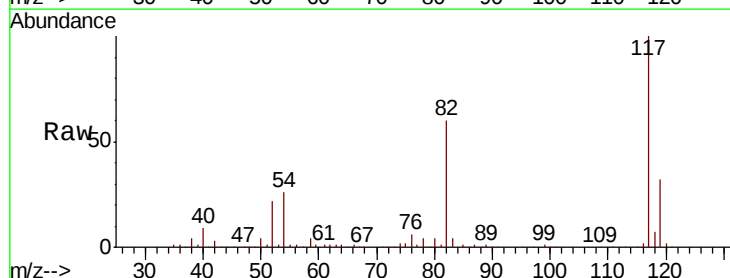


Abundance Ion 94.90 (94.60 to 95.60): VX0
 Ion 173.80 (173.50 to 174.50): V
 Ion 175.80 (175.50 to 176.50): V

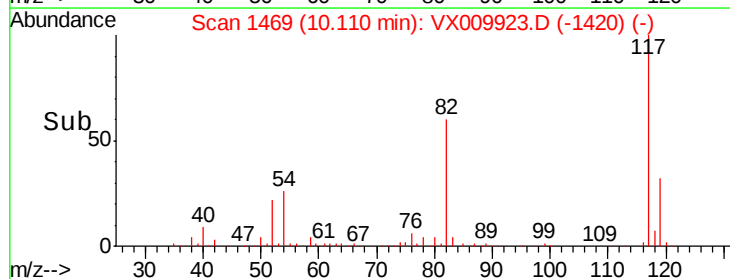
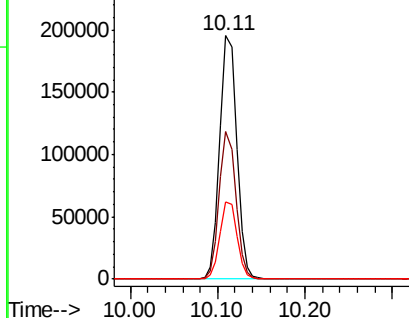


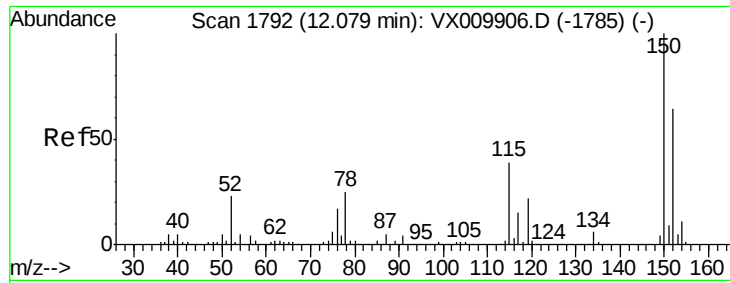
#63
 Chlorobenzene-d5
 Concen: 50.000 ug/l
 RT: 10.11 min Scan# 1469
 Delta R.T. 0.00 min
 Lab File: VX009923.D
 Acq: 28 May 2019 18:30

Tgt Ion: 117 Resp: 264064
 Ion Ratio Lower Upper
 117 100
 82 60.5 49.2 73.8
 119 32.0 25.2 37.8



Abundance Ion 116.90 (116.60 to 117.60): V
 Ion 82.00 (81.70 to 82.70): VX0
 Ion 118.90 (118.60 to 119.60): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. 0.00 min

Lab File: VX009923.D

Acq: 28 May 2019 18:30

Instrument :

MSVOA_X

ClientSampleId :

OUTFALL001-WK-4

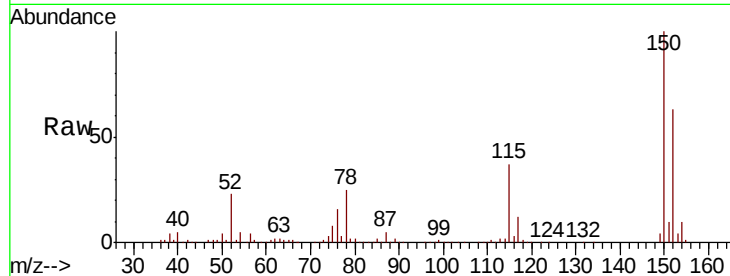
Tot Ion:152 Resp: 111363

Ion Ratio Lower Upper

152 100

115 59.2 41.4 124.2

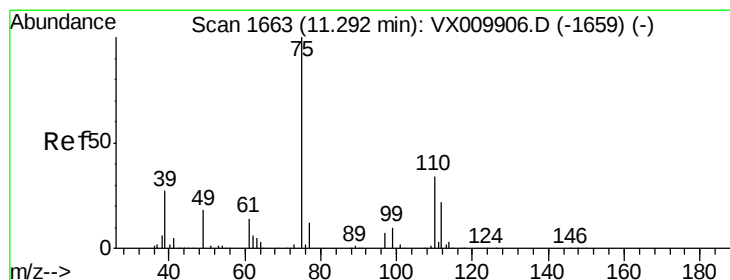
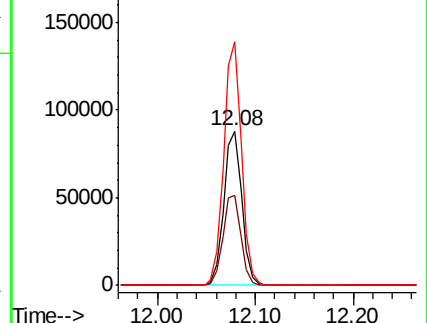
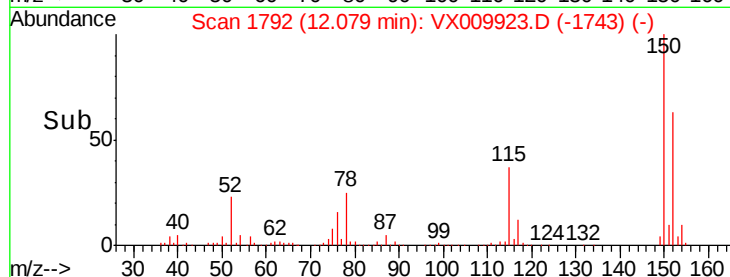
150 155.9 0.0 345.2



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 24.078 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX009923.D

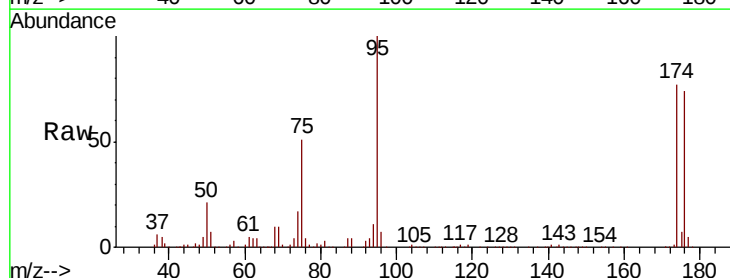
Acq: 28 May 2019 18:30

Tgt Ion: 75 Resp: 64121

Ion Ratio Lower Upper

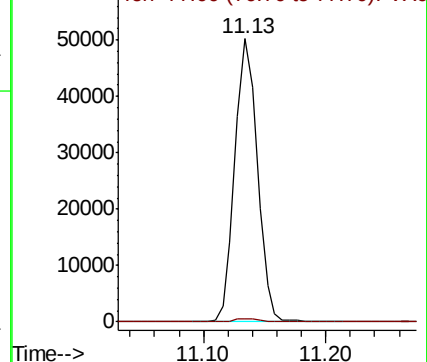
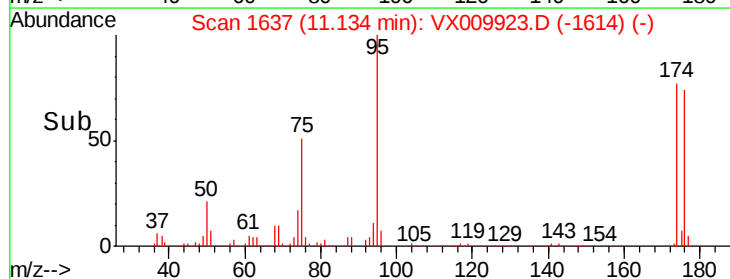
75 100

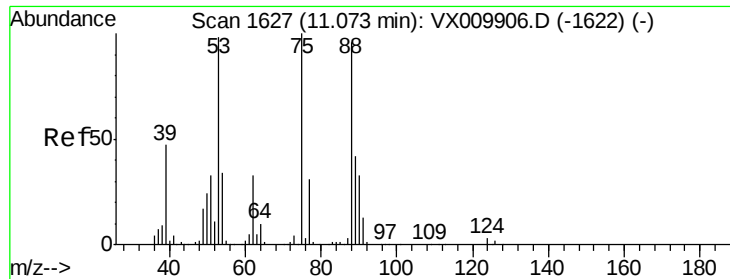
77 1.3 22.1 66.1#



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: 59.573 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX009923.D

Acq: 28 May 2019 18:30

Instrument :

MSVOA_X

ClientSampleId :

OUTFALL001-WK-4

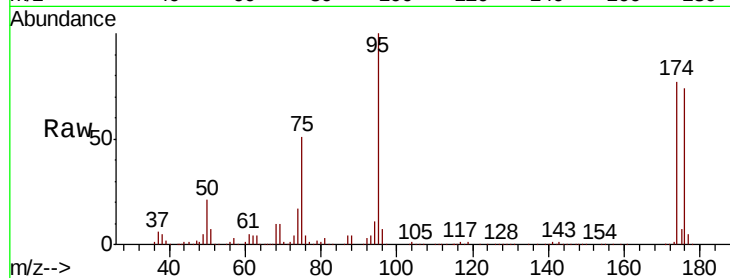
Tot Ion: 75 Resp: 64121

Ion Ratio Lower Upper

75 100

53 0.1 79.8 119.6#

89 0.0 34.2 51.4#



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

