

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX052419\
 Data File : VX009888.D
 Acq On : 24 May 2019 15:47
 Operator : JC/SP
 Sample : K3015-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 OUTFALL001-WK-4

Quant Time: May 25 00:14:18 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	5.67	168	178111	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	288362	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	258247	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	113612	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	122979	50.58	ug/l	0.00
Spiked Amount			Recovery	=	101.16%	
35) Dibromofluoromethane	5.50	113	88916	49.05	ug/l	0.00
Spiked Amount			Recovery	=	98.10%	
50) Toluene-d8	8.71	98	365793	49.98	ug/l	0.00
Spiked Amount			Recovery	=	99.96%	
62) 4-Bromofluorobenzene	11.13	95	123380	46.40	ug/l	0.00
Spiked Amount			Recovery	=	92.80%	

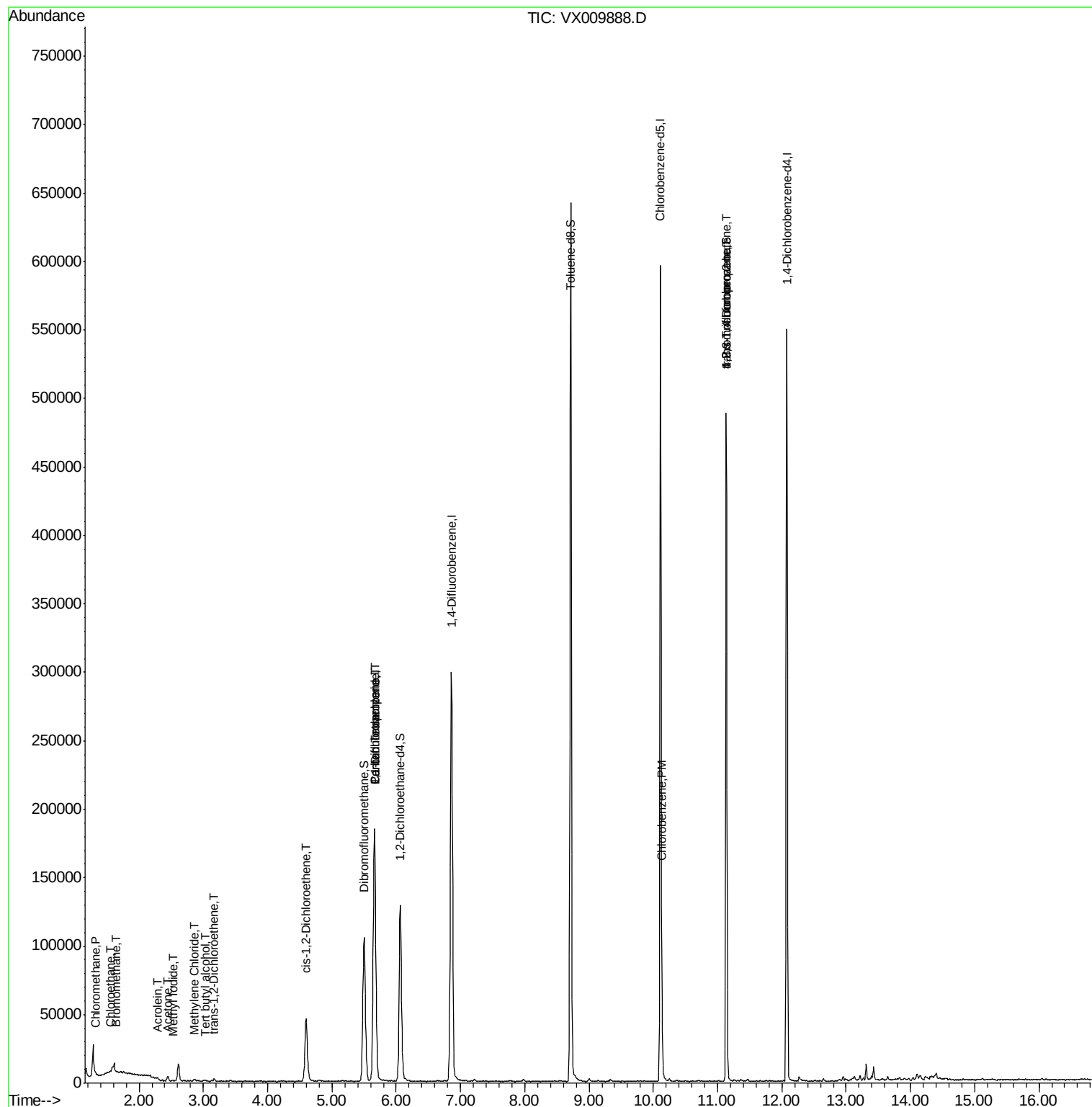
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	679	0.303	ug/l #	87
5) Bromomethane	1.65	94	301	0.230	ug/l #	63
6) Chloroethane	1.54	64	5878	4.190	ug/l #	43
10) Methyl Iodide	2.52	142	174	4.675	ug/l #	42
11) Tert butyl alcohol	3.03	59	818	1.453	ug/l #	73
13) Acrolein	2.28	56	226	0.443	ug/l #	14
16) Acetone	2.45	43	3665	2.807	ug/l	92
20) Methylene Chloride	2.86	84	636	0.301	ug/l #	88
21) trans-1,2-Dichloroethene	3.17	96	532	0.294	ug/l #	40
27) cis-1,2-Dichloroethene	4.60	96	27693	12.801	ug/l	92
28) Bromochloromethane	5.01	49	66	Below Cal	#	20
36) 1,1-Dichloropropene	5.66	75	14643	5.464	ug/l #	50
38) Carbon Tetrachloride	5.66	117	16479	6.768	ug/l #	18
65) Chlorobenzene	10.13	112	11095	2.148	ug/l	100
76) 1,2,3-Trichloropropane	11.13	75	64597	24.511	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.13	75	64597	62.716	ug/l #	10

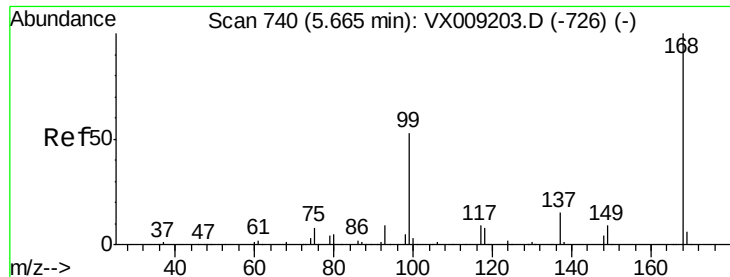
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.00 min

Lab File: VX009888.D

Acq: 24 May 2019 15:47

Instrument :

MSVOA_X

ClientSampleId :

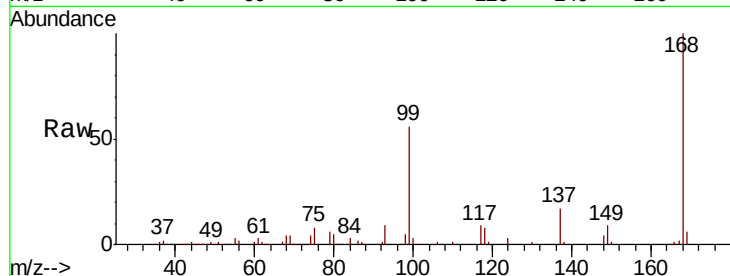
OUTFALL001-WK-4

Tot Ion:168 Resp: 178111

Ion Ratio Lower Upper

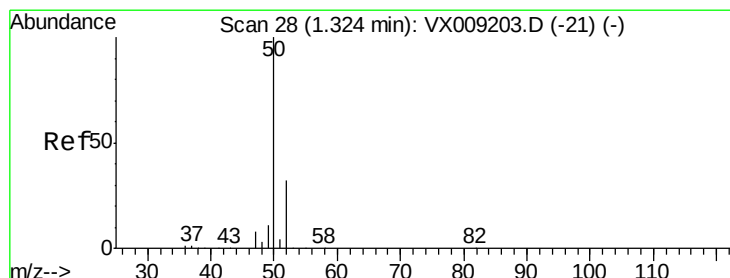
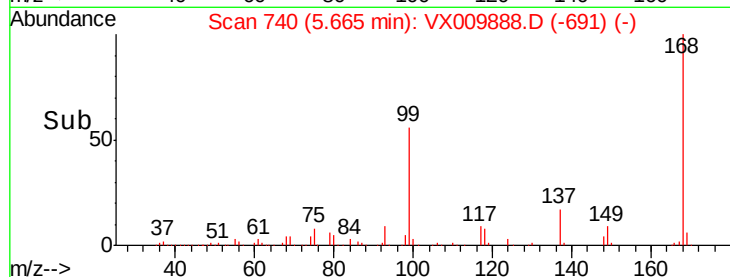
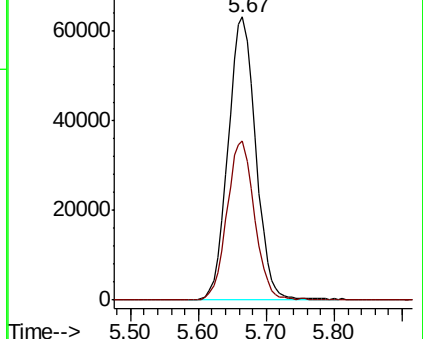
168 100

99 56.1 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: 0.303 ug/l

RT: 1.33 min Scan# 29

Delta R.T. 0.01 min

Lab File: VX009888.D

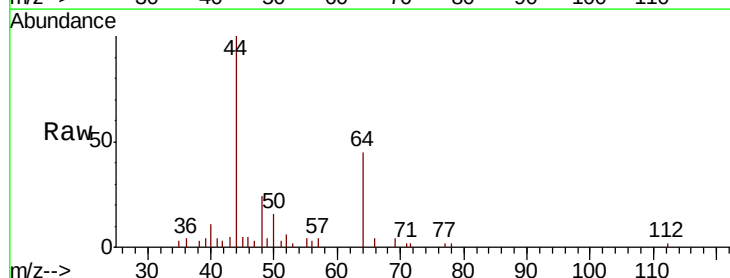
Acq: 24 May 2019 15:47

Tgt Ion: 50 Resp: 679

Ion Ratio Lower Upper

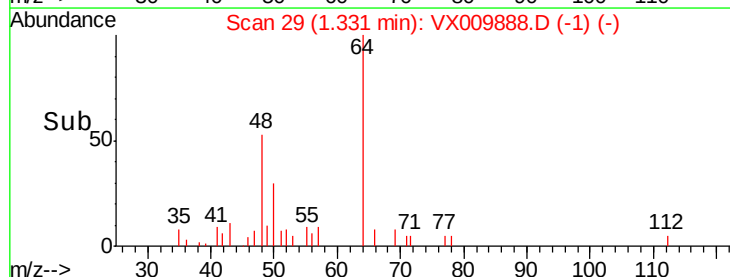
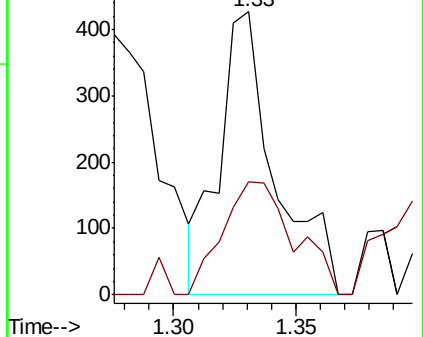
50 100

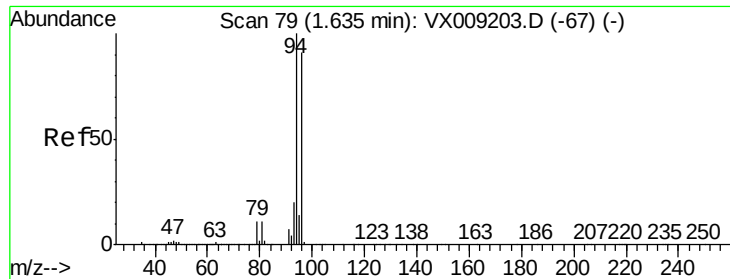
52 39.8 25.9 38.9#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#5

Bromomethane

Concen: 0.230 ug/l

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX009888.D

Acq: 24 May 2019 15:47

Instrument :

MSVOA_X

ClientSampleId :

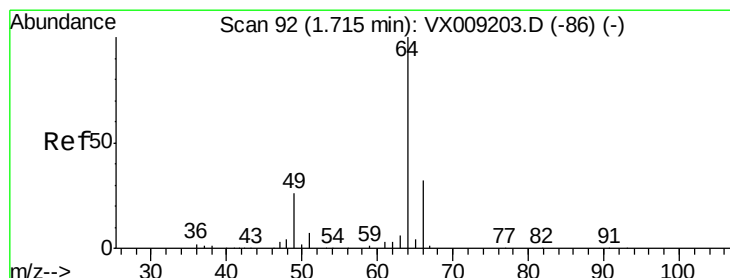
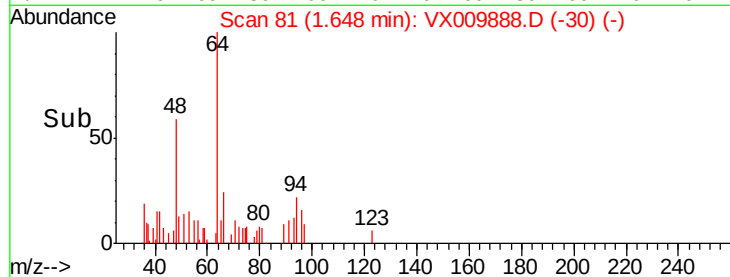
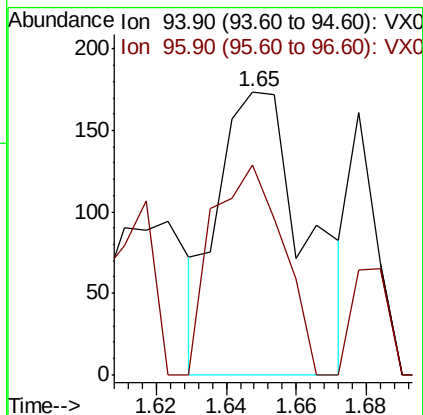
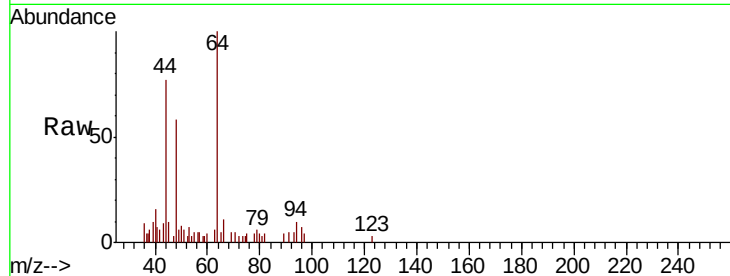
OUTFALL001-WK-4

Tot Ion: 94 Resp: 301

Ion Ratio Lower Upper

94 100

96 126.5 73.0 109.6#



#6

Chloroethane

Concen: 4.190 ug/l

RT: 1.54 min Scan# 64

Delta R.T. -0.17 min

Lab File: VX009888.D

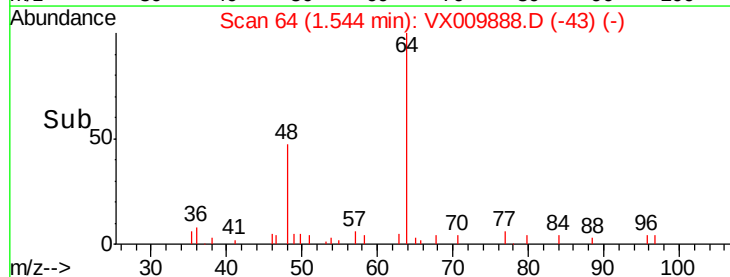
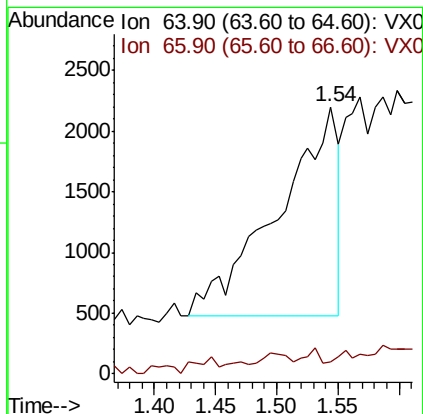
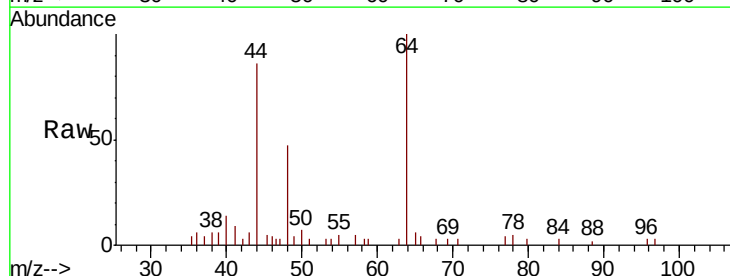
Acq: 24 May 2019 15:47

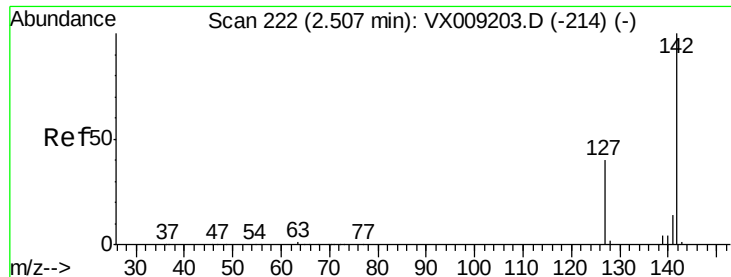
Tgt Ion: 64 Resp: 5878

Ion Ratio Lower Upper

64 100

66 0.0 25.3 37.9#

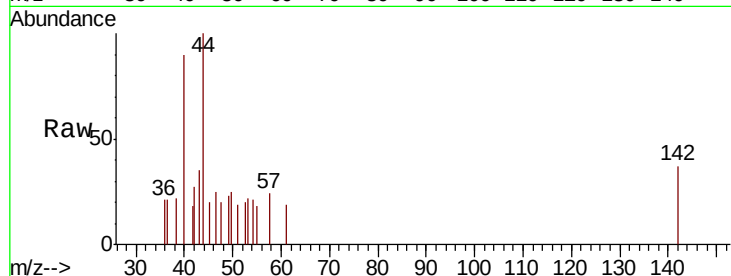




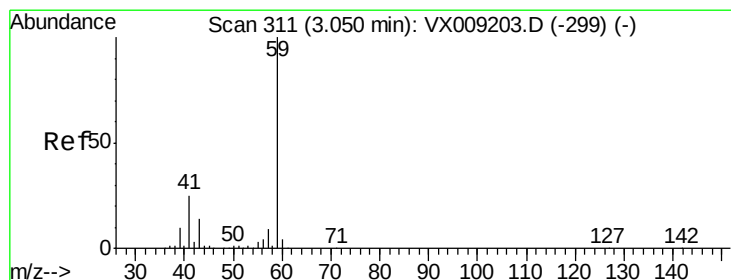
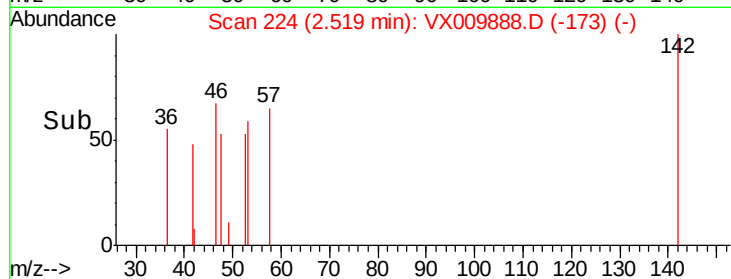
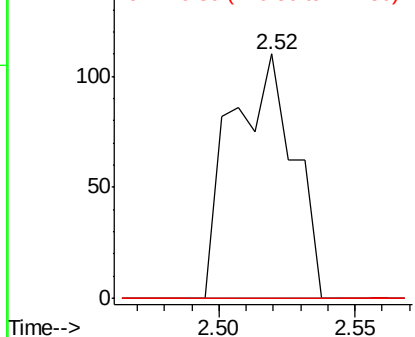
#10
Methvl Iodide
Concen: 4.675 ug/l
RT: 2.52 min Scan# 224
Delta R.T. 0.01 min
Lab File: VX009888.D
Acq: 24 May 2019 15:47

Instrument :
MSVOA_X
ClientSampleId :
OUTFALL001-WK-4

Tot Ion:142 Resp: 174
Ion Ratio Lower Upper
142 100
127 0.0 32.7 49.1#
141 0.0 11.5 17.3#

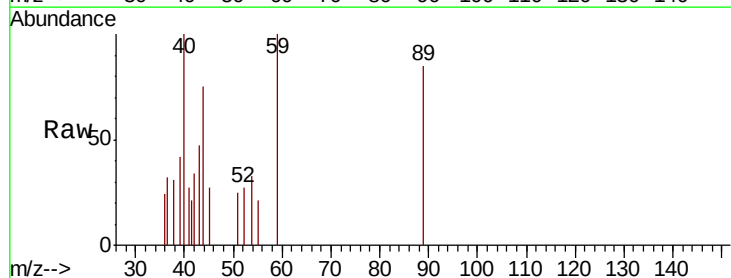


Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V

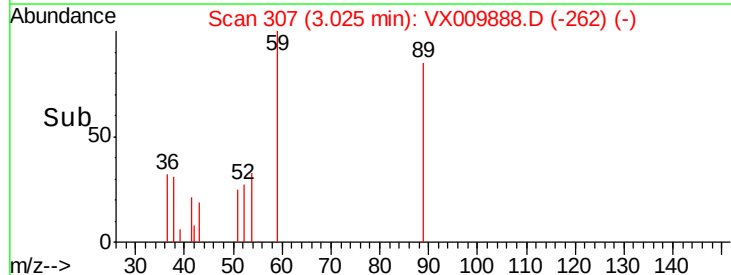
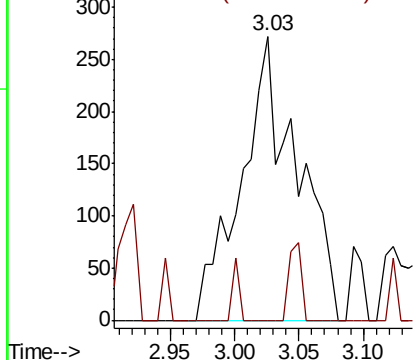


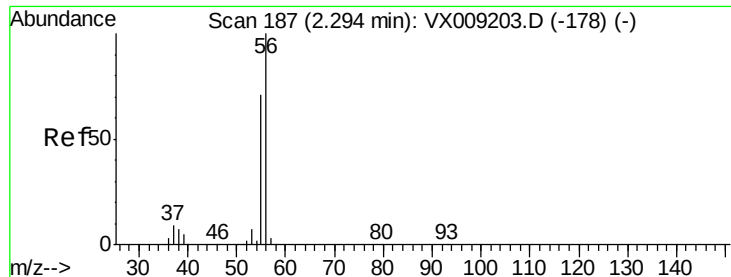
#11
Tert butyl alcohol
Concen: 1.453 ug/l
RT: 3.03 min Scan# 307
Delta R.T. -0.02 min
Lab File: VX009888.D
Acq: 24 May 2019 15:47

Tgt Ion: 59 Resp: 818
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.2#



Abundance Ion 59.00 (58.70 to 59.70): VX0
Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: 0.443 ug/l

RT: 2.28 min Scan# 185

Delta R.T. -0.01 min

Lab File: VX009888.D

Acq: 24 May 2019 15:47

Instrument :

MSVOA_X

ClientSampleId :

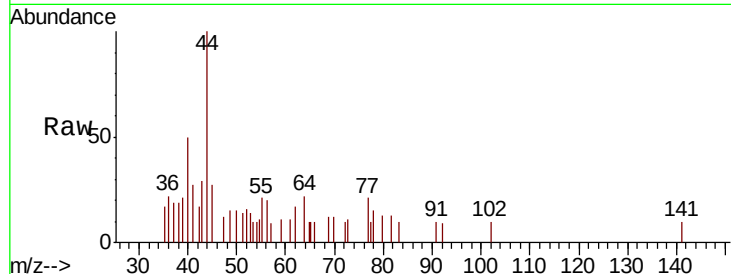
OUTFALL001-WK-4

Tot Ion: 56 Resp: 226

Ion Ratio Lower Upper

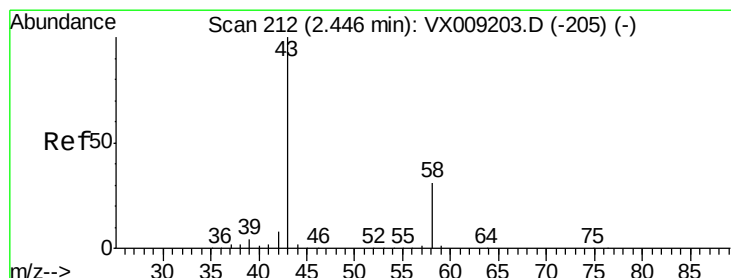
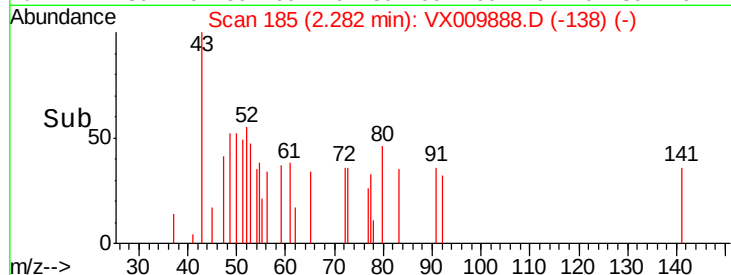
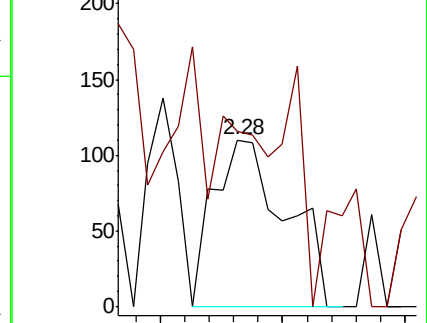
56 100

55 0.0 56.6 85.0#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#16

Acetone

Concen: 2.807 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX009888.D

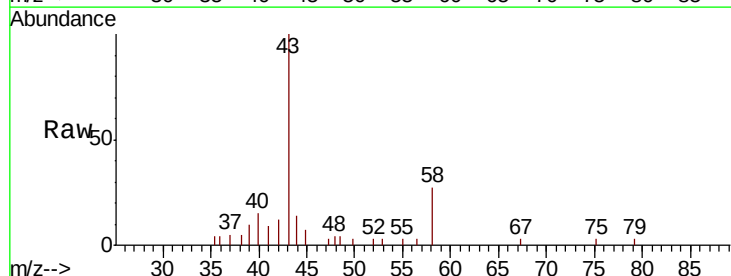
Acq: 24 May 2019 15:47

Tgt Ion: 43 Resp: 3665

Ion Ratio Lower Upper

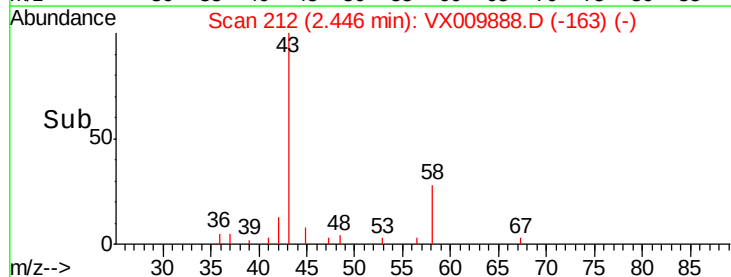
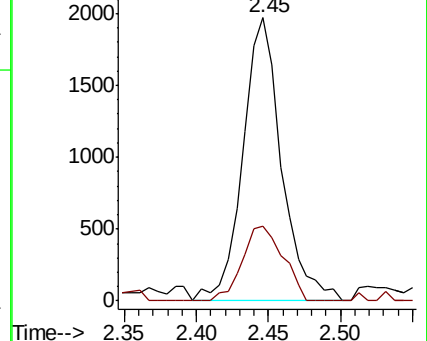
43 100

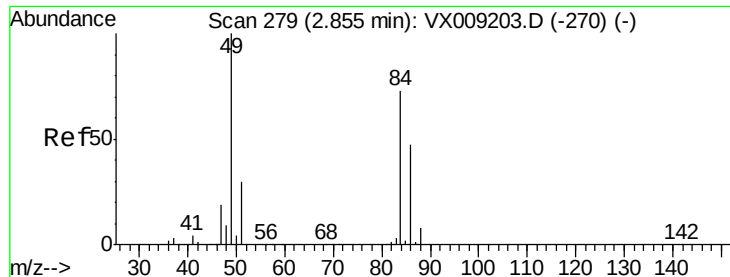
58 26.6 24.9 37.3



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

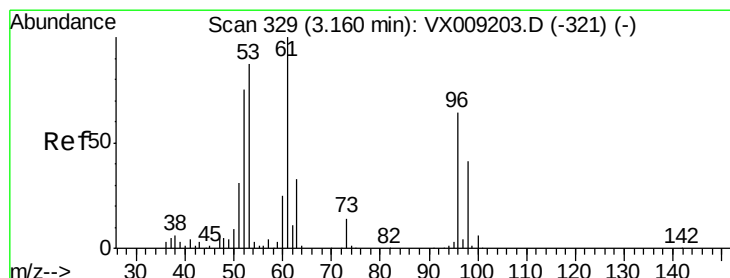
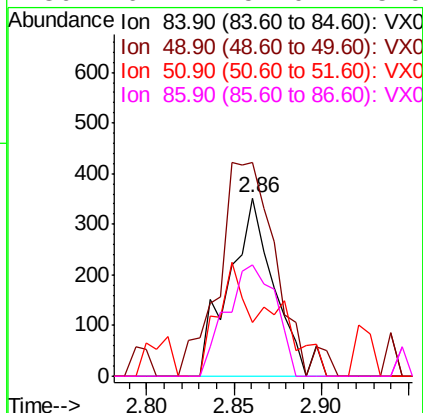
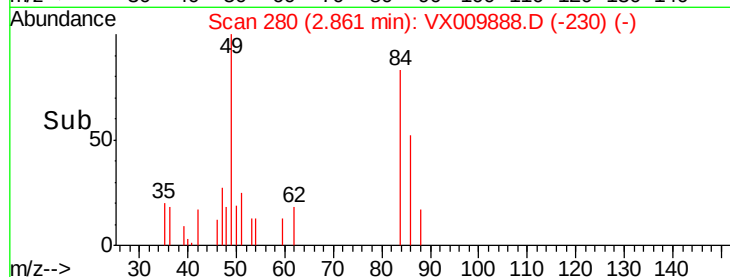
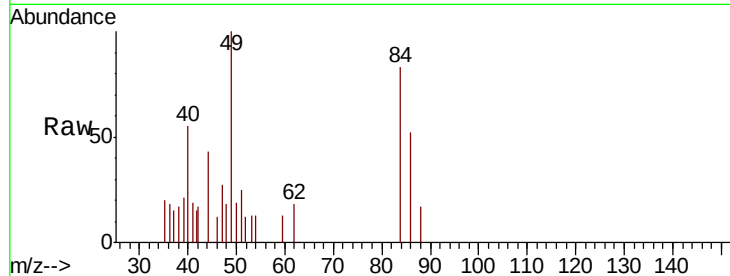




#20
Methylene Chloride
Concen: 0.301 ug/l
RT: 2.86 min Scan# 280
Delta R.T. 0.01 min
Lab File: VX009888.D
Acq: 24 May 2019 15:47

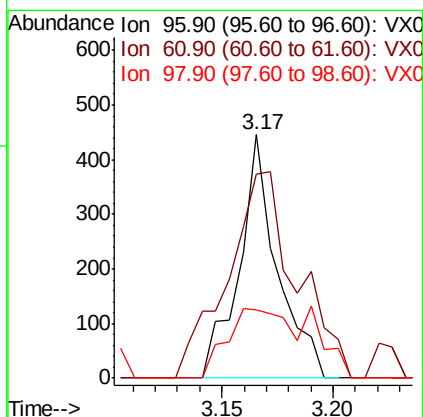
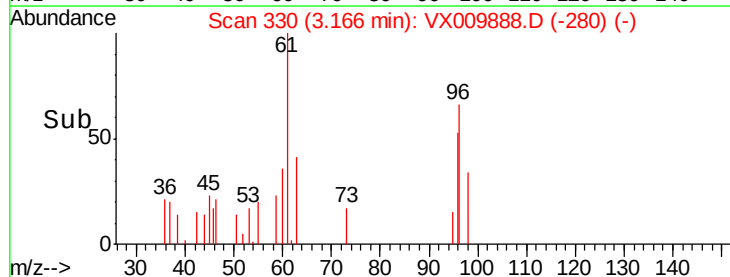
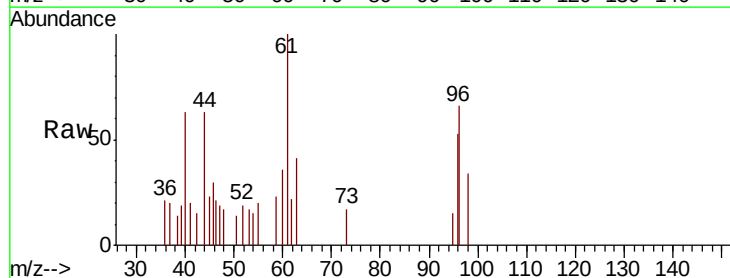
Instrument :
MSVOA_X
ClientSampleId :
OUTFALL001-WK-4

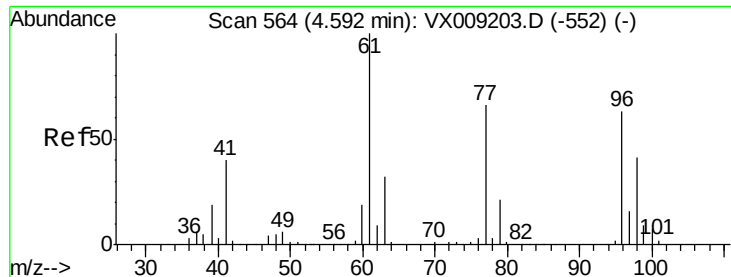
Tot Ion: 84 Resp: 636
Ion Ratio Lower Upper
84 100
49 119.9 109.9 164.9
51 30.1 32.7 49.1#
86 62.2 52.0 78.0



#21
trans-1,2-Dichloroethene
Concen: 0.294 ug/l
RT: 3.17 min Scan# 330
Delta R.T. 0.01 min
Lab File: VX009888.D
Acq: 24 May 2019 15:47

Tgt Ion: 96 Resp: 532
Ion Ratio Lower Upper
96 100
61 69.3 124.5 186.7#
98 28.3 50.4 75.6#



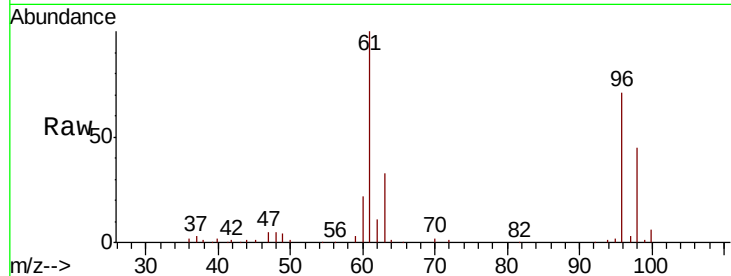


#27

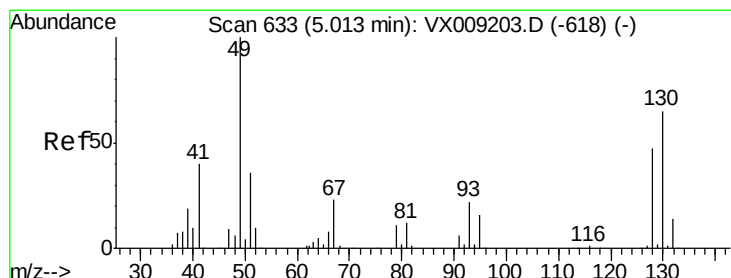
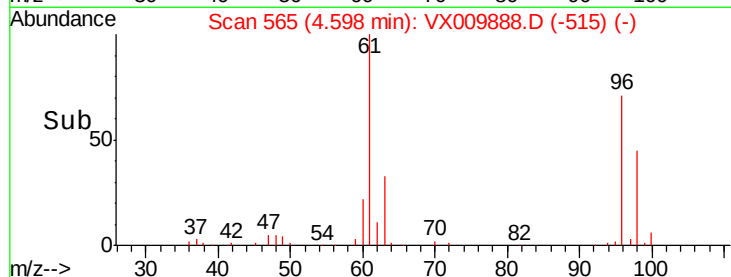
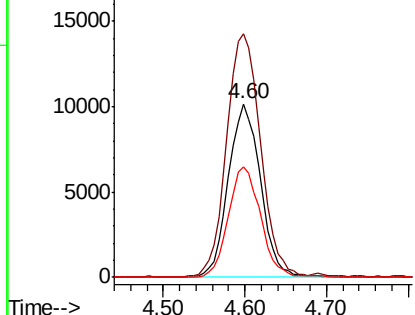
cis-1,2-Dichloroethene
 Concen: 12.801 ug/l
 RT: 4.60 min Scan# 565
 Delta R.T. 0.01 min
 Lab File: VX009888.D
 Acq: 24 May 2019 15:47

Instrument :
 MSVOA_X
 ClientSampleId :
 OUTFALL001-WK-4

Tot Ion	Ratio	Lower	Upper
96	100		
61	148.7	0.0	324.0
98	64.0	0.0	130.4



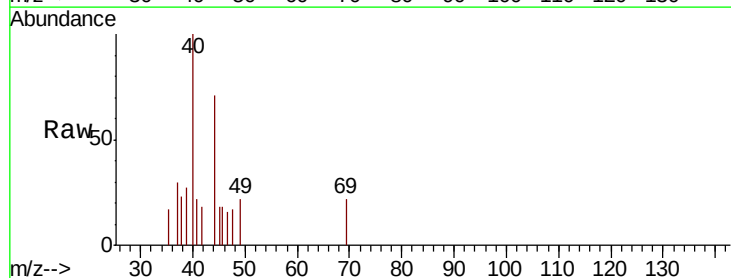
Abundance Ion 95.90 (95.60 to 96.60): VX0
 Ion 60.90 (60.60 to 61.60): VX0
 Ion 97.90 (97.60 to 98.60): VX0



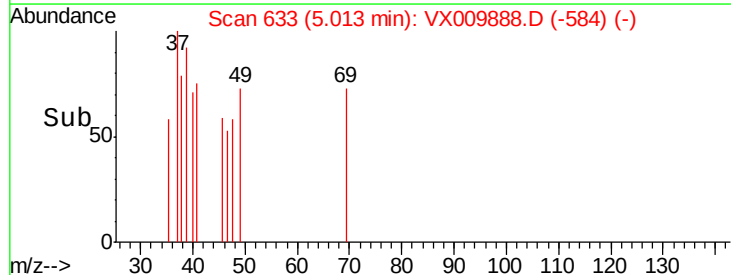
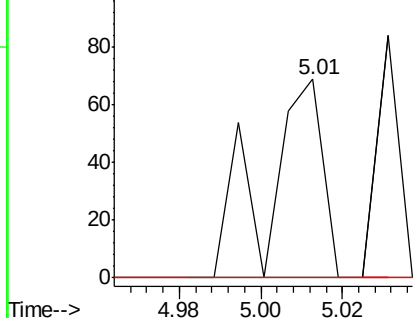
#28

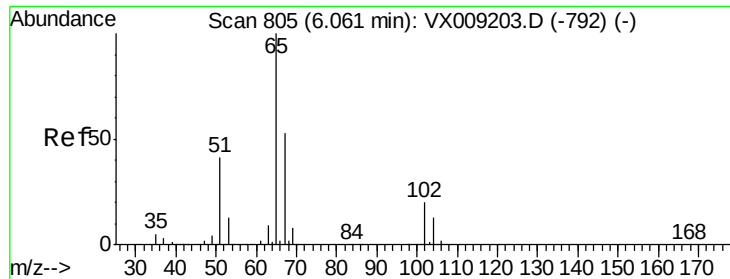
Bromochloromethane
 Concen: Below Cal
 RT: 5.01 min Scan# 633
 Delta R.T. 0.00 min
 Lab File: VX009888.D
 Acq: 24 May 2019 15:47

Tgt Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	3.8
130	0.0	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

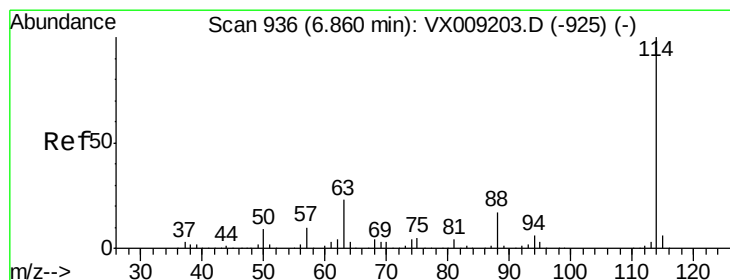
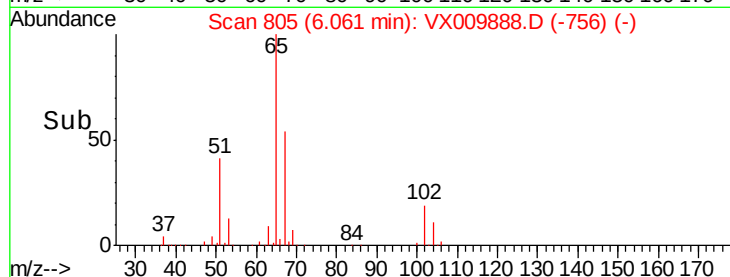
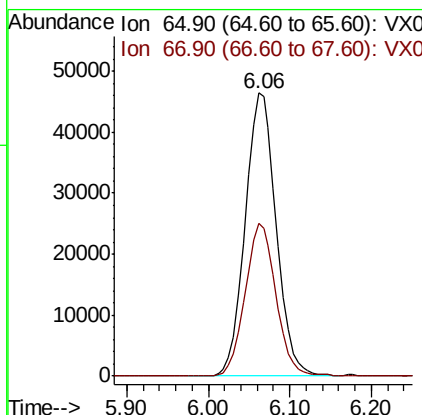
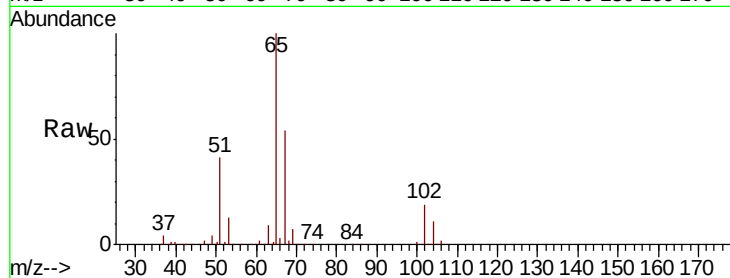




#33
 1,2-Dichloroethane-d4
 Concen: 50.579 ug/l
 RT: 6.06 min Scan# 805
 Delta R.T. -0.00 min
 Lab File: VX009888.D
 Acq: 24 May 2019 15:47

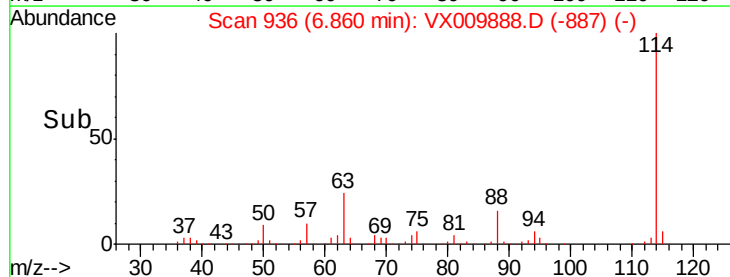
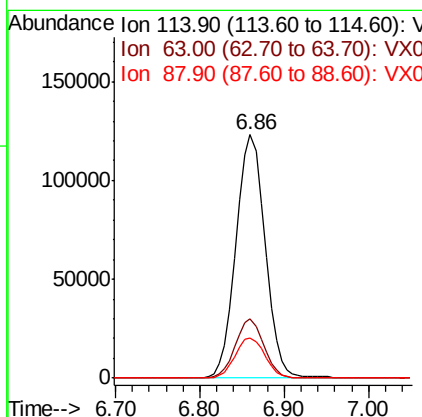
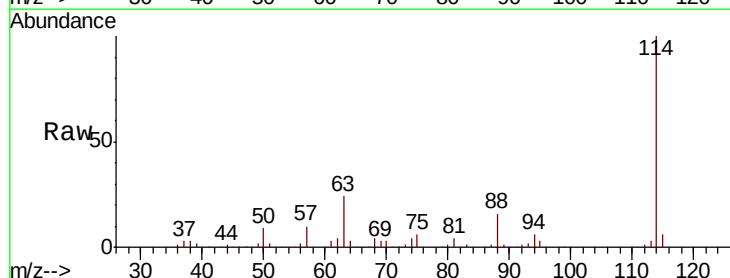
Instrument :
 MSVOA_X
 ClientSampleId :
 OUTFALL001-WK-4

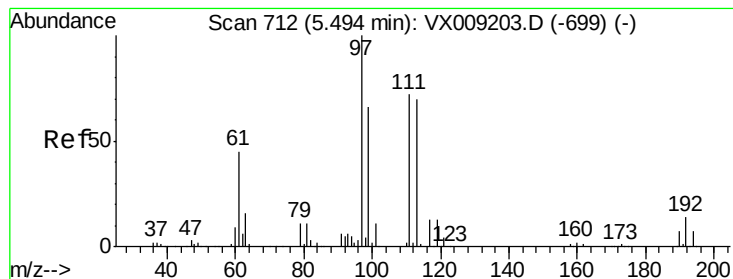
Tot Ion: 65 Resp: 122979
 Ion Ratio Lower Upper
 65 100
 67 53.6 0.0 106.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. -0.00 min
 Lab File: VX009888.D
 Acq: 24 May 2019 15:47

Tgt Ion: 114 Resp: 288362
 Ion Ratio Lower Upper
 114 100
 63 24.2 0.0 45.6
 88 16.2 0.0 33.2





#35

Dibromofluoromethane

Concen: 49.050 ug/l

RT: 5.50 min Scan# 713

Delta R.T. 0.01 min

Lab File: VX009888.D

Acq: 24 May 2019 15:47

Instrument :

MSVOA_X

ClientSampleId :

OUTFALL001-WK-4

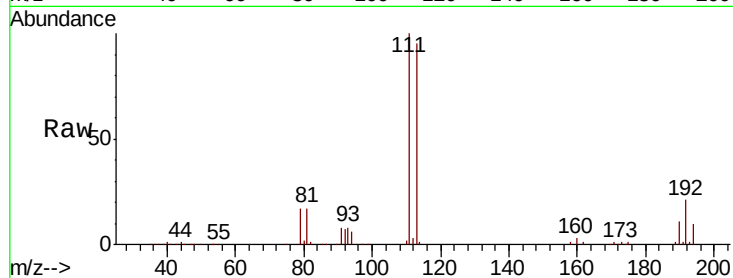
Tot Ion:113 Resp: 88916

Ion Ratio Lower Upper

113 100

111 102.5 82.8 124.2

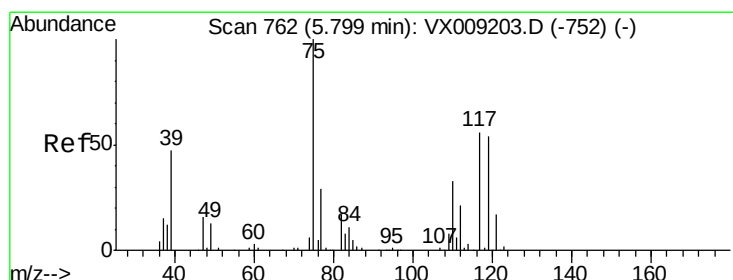
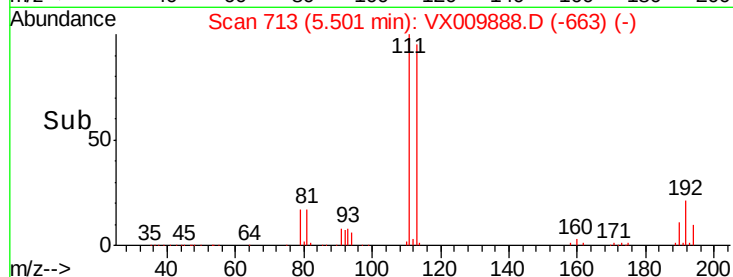
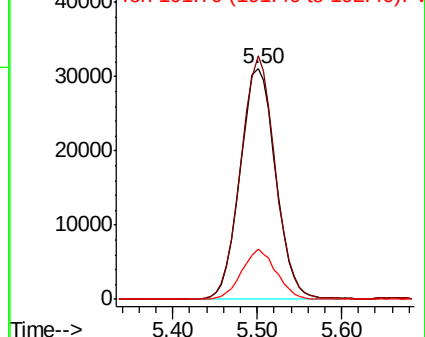
192 21.1 17.0 25.6



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: 5.464 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX009888.D

Acq: 24 May 2019 15:47

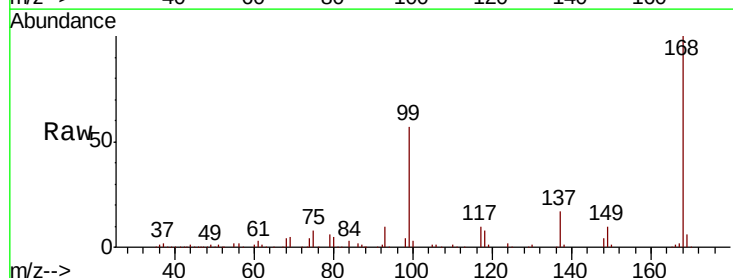
Tgt Ion: 75 Resp: 14643

Ion Ratio Lower Upper

75 100

110 8.6 16.9 50.6#

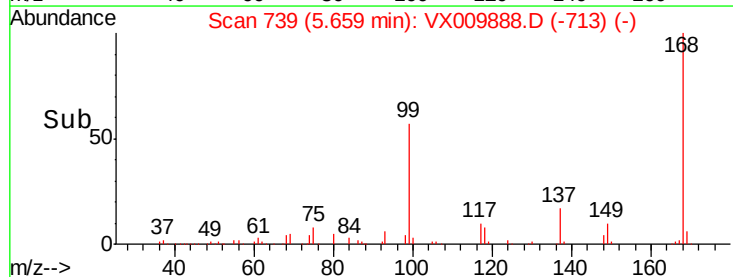
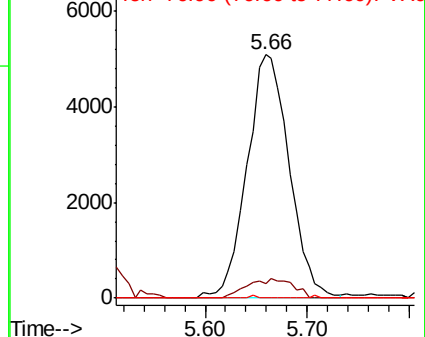
77 0.2 24.8 37.2#

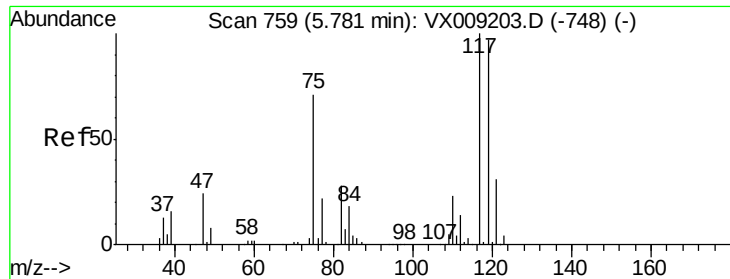


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0

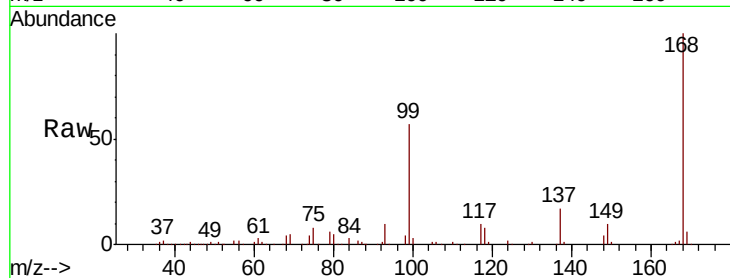




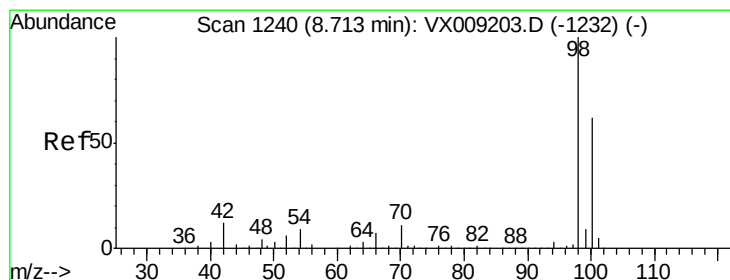
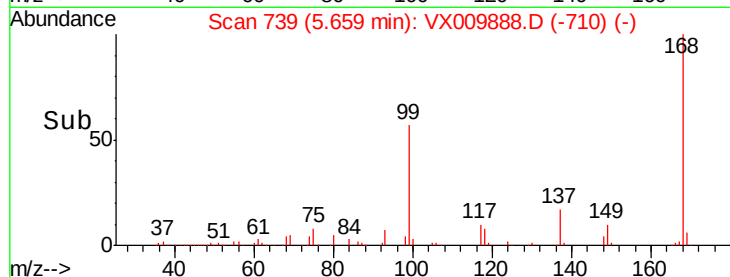
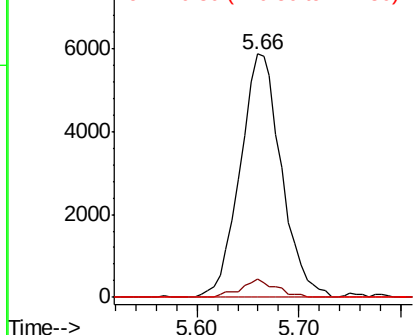
#38
Carbon Tetrachloride
Concen: 6.768 ug/l
RT: 5.66 min Scan# 739
Delta R.T. -0.12 min
Lab File: VX009888.D
Acq: 24 May 2019 15:47

Instrument :
MSVOA_X
ClientSampleId :
OUTFALL001-WK-4

Tot Ion:117 Resp: 16479
Ion Ratio Lower Upper
117 100
119 7.7 77.5 116.3#
121 0.0 24.7 37.1#

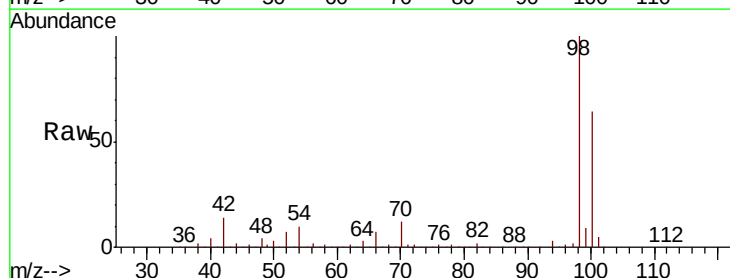


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

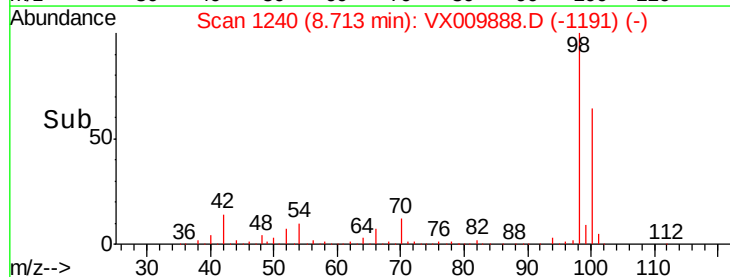
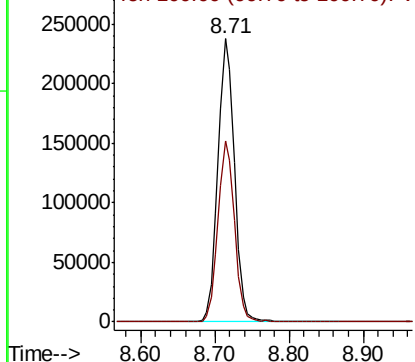


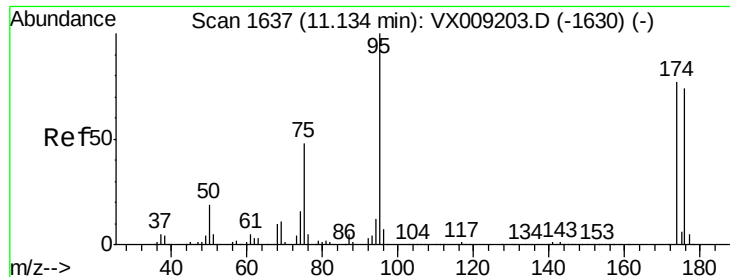
#50
Toluene-d8
Concen: 49.982 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. -0.00 min
Lab File: VX009888.D
Acq: 24 May 2019 15:47

Tgt Ion: 98 Resp: 365793
Ion Ratio Lower Upper
98 100
100 63.7 51.2 76.8



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

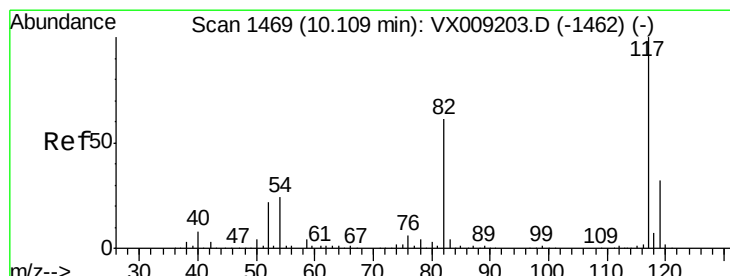
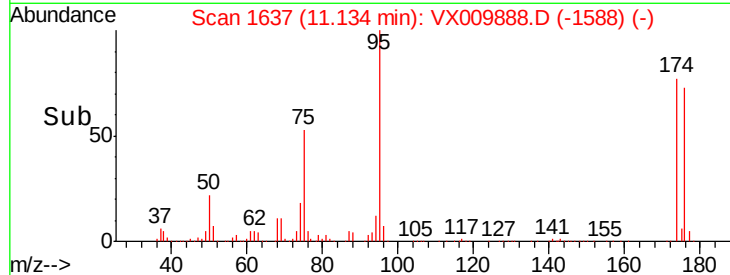
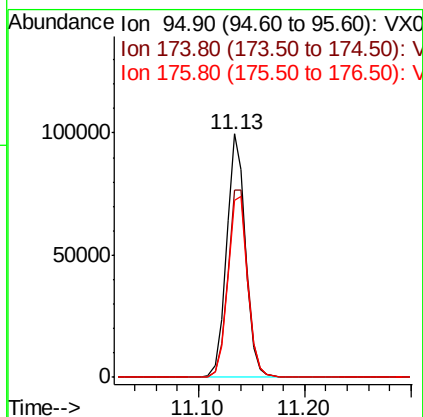
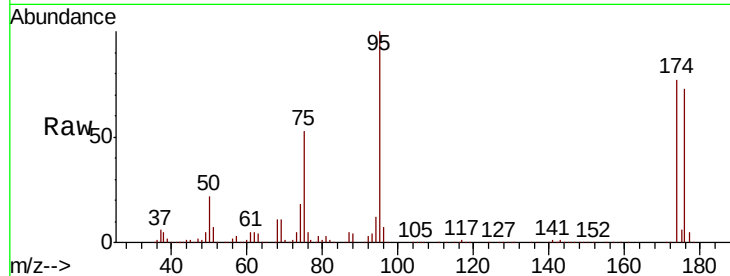




#62
4-Bromofluorobenzene
Concen: 46.396 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. -0.00 min
Lab File: VX009888.D
Acq: 24 May 2019 15:47

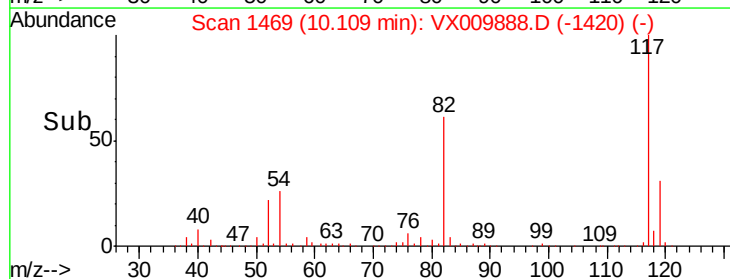
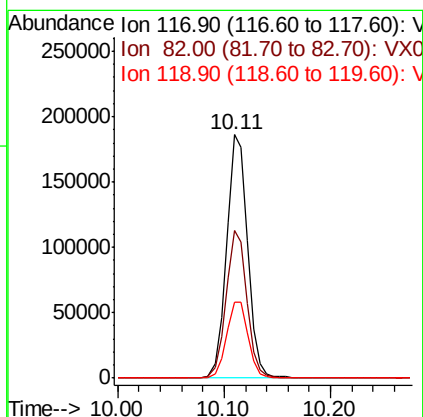
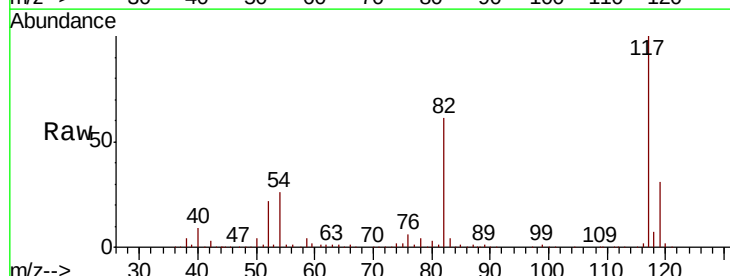
Instrument :
MSVOA_X
ClientSampleId :
OUTFALL001-WK-4

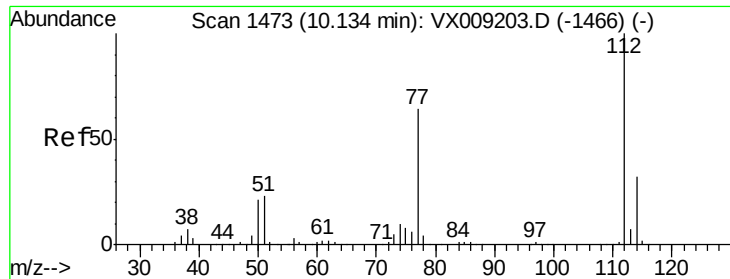
Tot Ion: 95 Resp: 123380
Ion Ratio Lower Upper
95 100
174 81.6 0.0 161.6
176 78.3 0.0 159.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. -0.00 min
Lab File: VX009888.D
Acq: 24 May 2019 15:47

Tgt Ion: 117 Resp: 258247
Ion Ratio Lower Upper
117 100
82 60.9 48.8 73.2
119 31.4 25.8 38.6

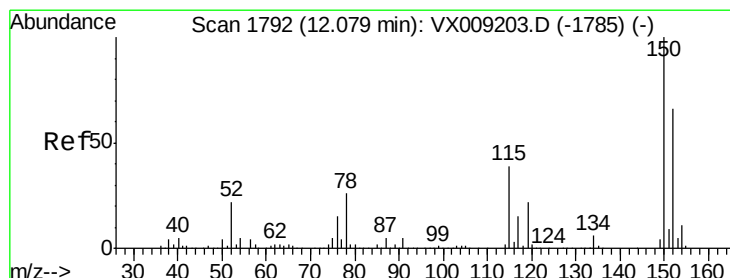
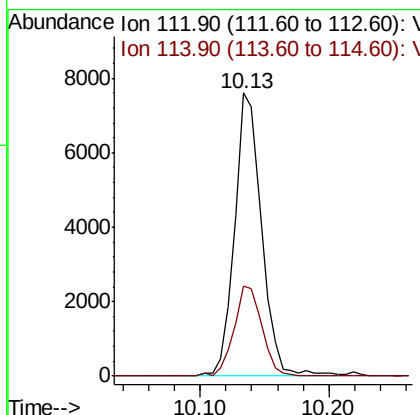
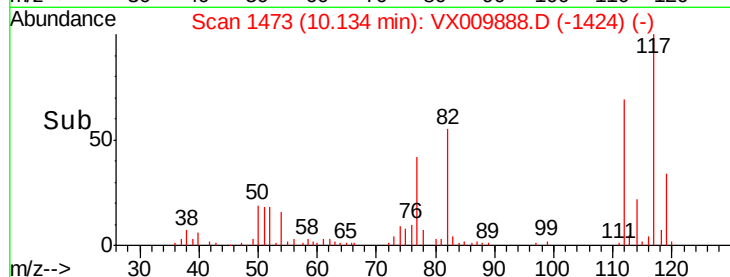
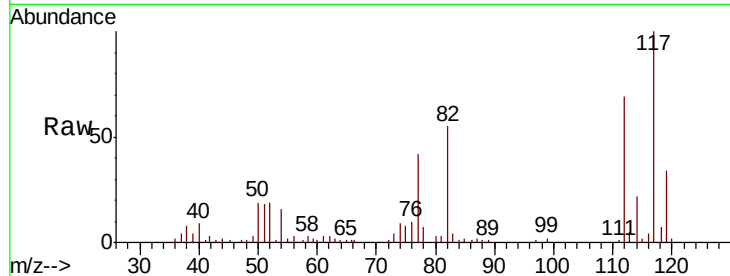




#65
Chlorobenzene
Concen: 2.148 ug/l
RT: 10.13 min Scan# 1473
Delta R.T. -0.00 min
Lab File: VX009888.D
Acq: 24 May 2019 15:47

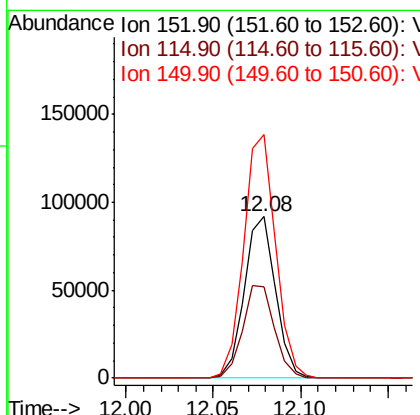
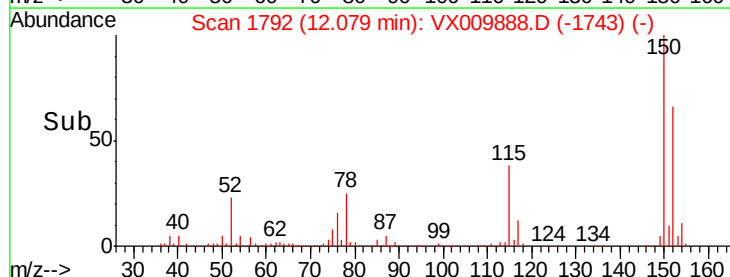
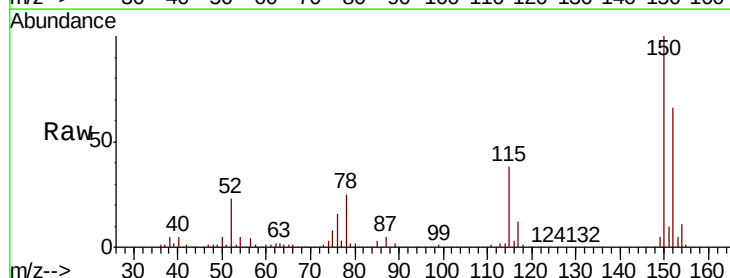
Instrument :
MSVOA_X
ClientSampleId :
OUTFALL001-WK-4

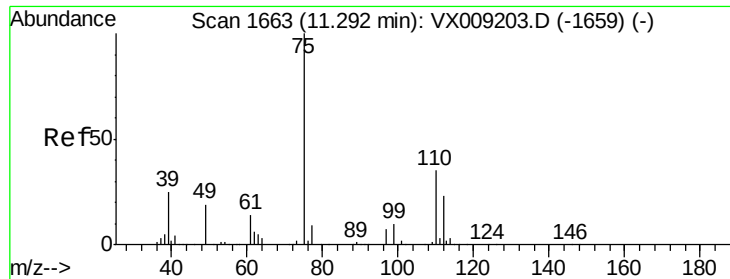
Tot Ion:112 Resp: 11095
Ion Ratio Lower Upper
112 100
114 31.7 25.5 38.3



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. -0.00 min
Lab File: VX009888.D
Acq: 24 May 2019 15:47

Tgt Ion:152 Resp: 113612
Ion Ratio Lower Upper
152 100
115 58.9 41.2 123.6
150 154.4 0.0 346.4





#76

1,2,3-Trichloropropane

Concen: 24.511 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX009888.D

Acq: 24 May 2019 15:47

Instrument :

MSVOA_X

ClientSampleId :

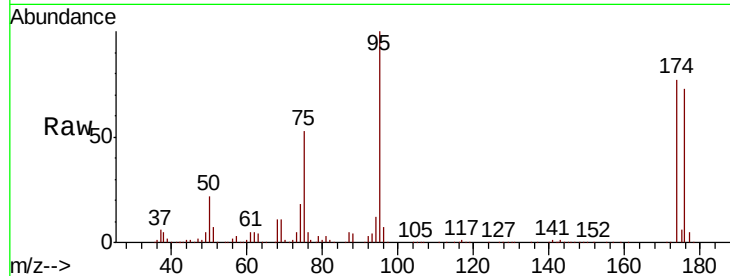
OUTFALL001-WK-4

Tot Ion: 75 Resp: 64597

Ion Ratio Lower Upper

75 100

77 1.4 22.1 66.1#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

11.13

60000

50000

40000

30000

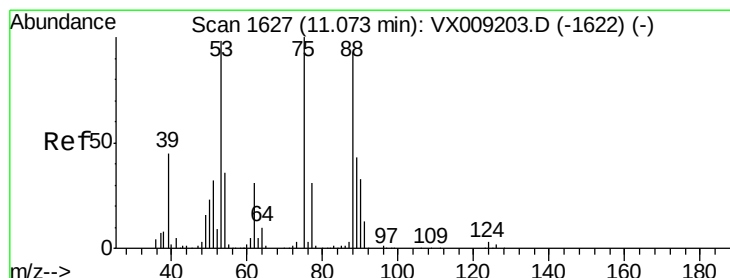
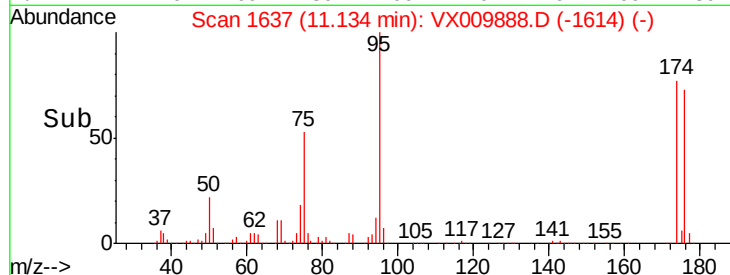
20000

10000

0

Time-->

11.10 11.20



#81

trans-1,4-Dichloro-2-butene

Concen: 62.716 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX009888.D

Acq: 24 May 2019 15:47

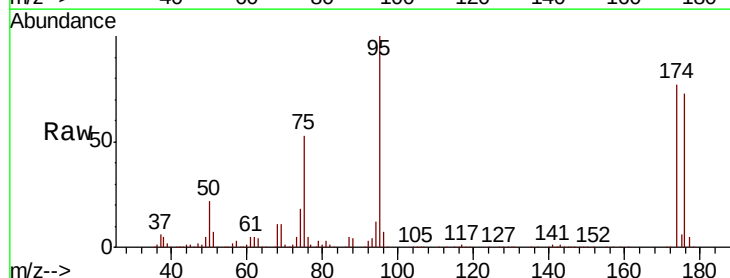
Tgt Ion: 75 Resp: 64597

Ion Ratio Lower Upper

75 100

53 0.0 79.0 118.6#

89 0.0 34.7 52.1#



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

60000

40000

20000

0

Time-->

11.10 11.20

