

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX091418\
 Data File : VX004550.D
 Acq On : 14 Sep 2018 19:47
 Operator : JC/MD
 Sample : J4913-08
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 BP-DUP01-20180912

Quant Time: Sep 15 04:44:02 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X091118W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 12 02:17:23 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	283122	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	420416	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	356833	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	202950	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.07	65	183395	50.24	ug/l	0.00
Spiked Amount			Recovery	=	100.48%	
35) Dibromofluoromethane	5.49	113	166229	43.21	ug/l	0.00
Spiked Amount			Recovery	=	86.42%	
50) Toluene-d8	8.71	98	561677	43.54	ug/l	0.00
Spiked Amount			Recovery	=	87.08%	
62) 4-Bromofluorobenzene	11.14	95	188231	40.87	ug/l	0.00
Spiked Amount			Recovery	=	81.74%	

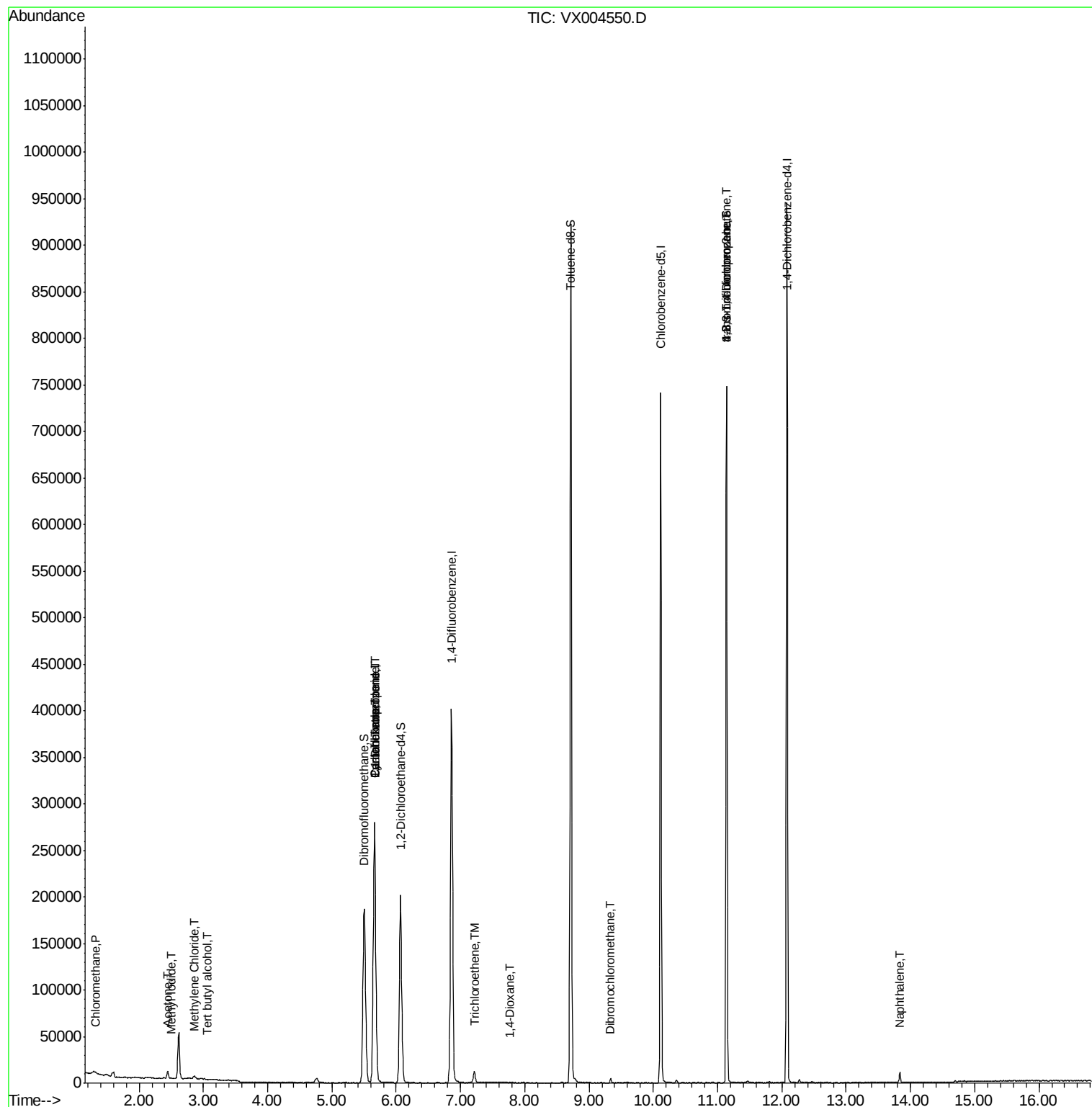
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	856	0.23	ug/l	# 77
5) Bromomethane	1.64	94	180	Below	Cal	# 71
10) Methyl Iodide	2.51	142	86	4.28	ug/l	# 41
11) Tert butyl alcohol	3.06	59	304	0.35	ug/l	# 89
16) Acetone	2.45	43	7694	4.32	ug/l	94
20) Methylene Chloride	2.86	84	1256	0.34	ug/l	87
31) Cyclohexane	5.67	56	4507	0.85	ug/l	# 1
36) 1,1-Dichloropropene	5.67	75	18148	3.56	ug/l	# 49
38) Carbon Tetrachloride	5.66	117	24620	4.94	ug/l	# 16
44) Trichloroethene	7.22	130	5097	1.30	ug/l	92
49) 1,4-Dioxane	7.76	88	110	1.22	ug/l	# 51
60) Dibromochloromethane	9.34	129	738	0.20	ug/l	# 11
76) 1,2,3-Trichloropropane	11.14	75	87891	21.53	ug/l	# 37
81) trans-1,4-Dichloro-2-buten	11.14	75	87891	68.61	ug/l	# 10
95) Naphthalene	13.83	128	8105	0.58	ug/l	99

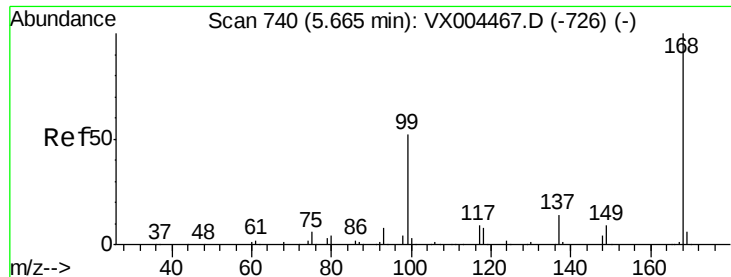
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.00 min

Lab File: VX004550.D

Acq: 14 Sep 2018 19:47

Instrument :

MSVOA_X

ClientSampleId :

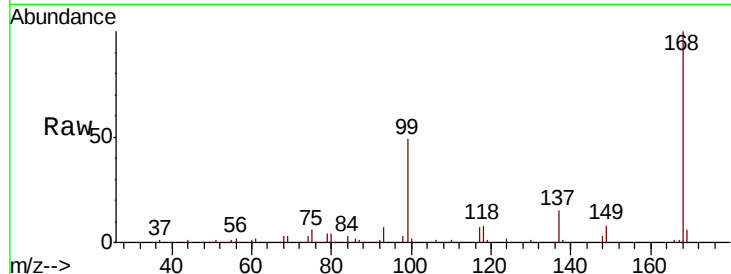
BP-DUP01-20180912

Tot Ion:168 Resp: 283122

Ion Ratio Lower Upper

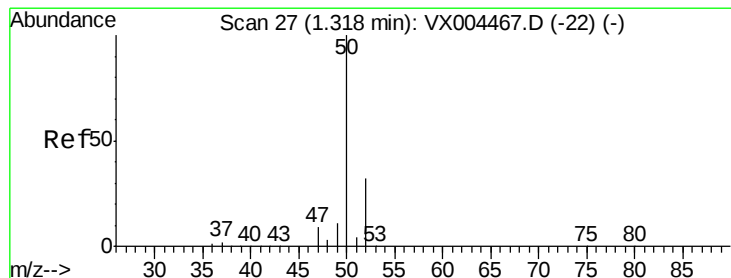
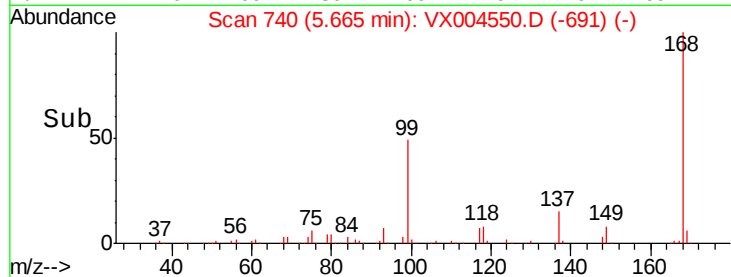
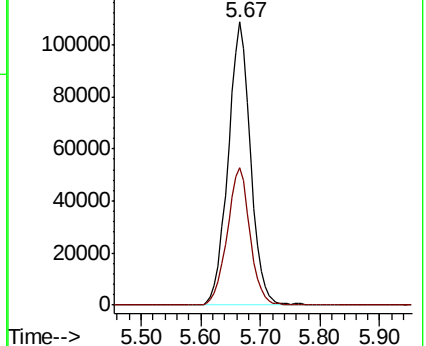
168 100

99 48.7 39.9 59.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#3

Chloromethane

Concen: 0.23 ug/l

RT: 1.32 min Scan# 28

Delta R.T. 0.01 min

Lab File: VX004550.D

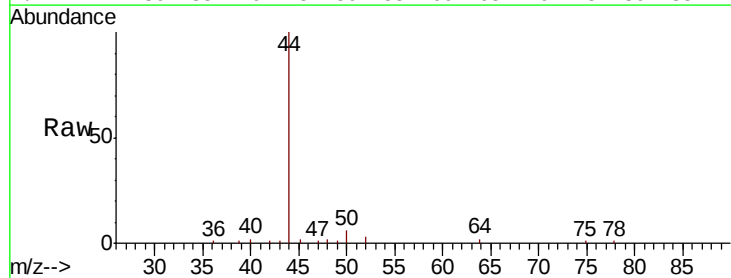
Acq: 14 Sep 2018 19:47

Tgt Ion: 50 Resp: 856

Ion Ratio Lower Upper

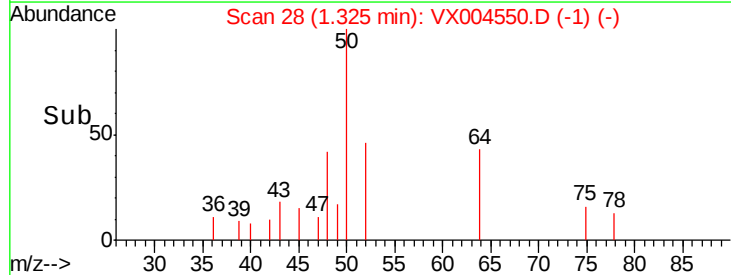
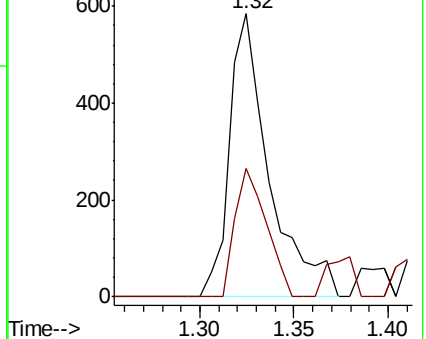
50 100

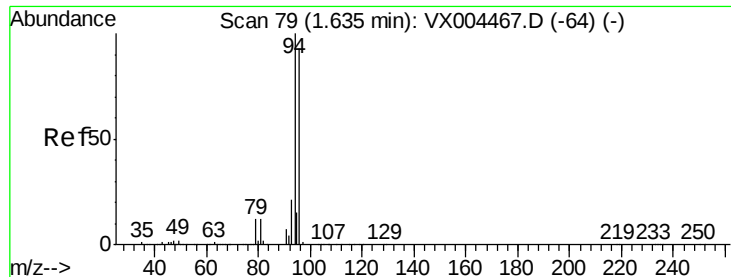
52 45.5 26.2 39.2#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#5

Bromomethane

Concen: Below Cal

RT: 1.64 min Scan# 80

Delta R.T. 0.01 min

Lab File: VX004550.D

Acq: 14 Sep 2018 19:47

Instrument :

MSVOA_X

ClientSampleId :

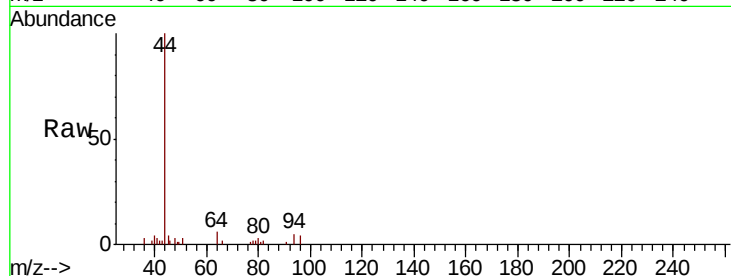
BP-DUP01-20180912

Tot Ion: 94 Resp: 180

Ion Ratio Lower Upper

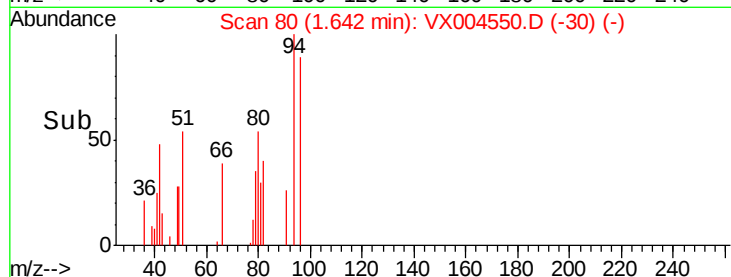
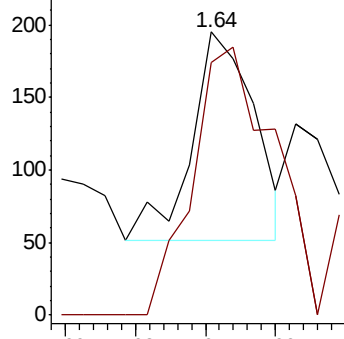
94 100

96 120.8 74.5 111.7#

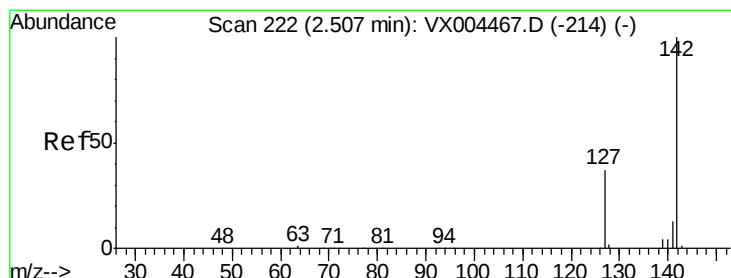


Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



Time-->



#10

Methyl Iodide

Concen: 4.28 ug/l

RT: 2.51 min Scan# 222

Delta R.T. 0.00 min

Lab File: VX004550.D

Acq: 14 Sep 2018 19:47

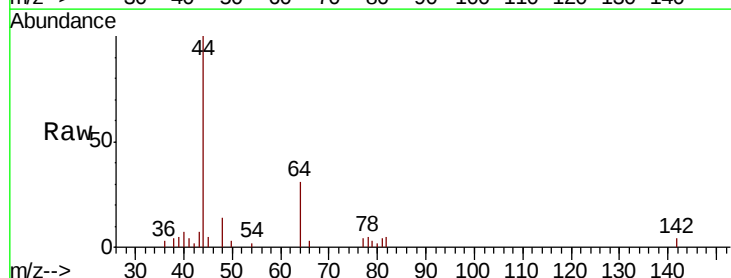
Tgt Ion: 142 Resp: 86

Ion Ratio Lower Upper

142 100

127 0.0 33.8 50.6#

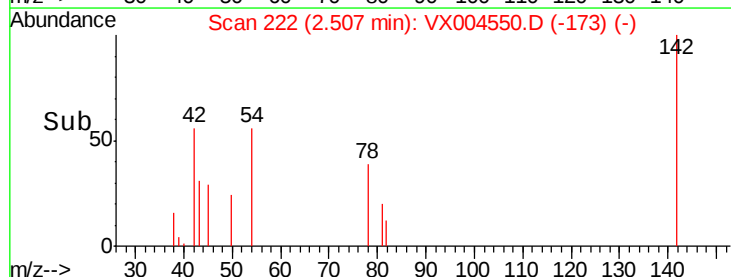
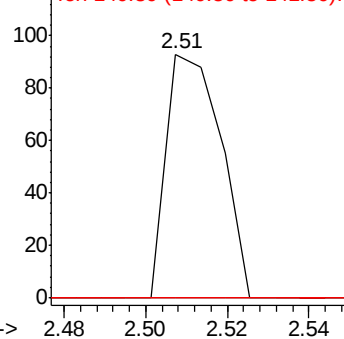
141 0.0 11.4 17.0#



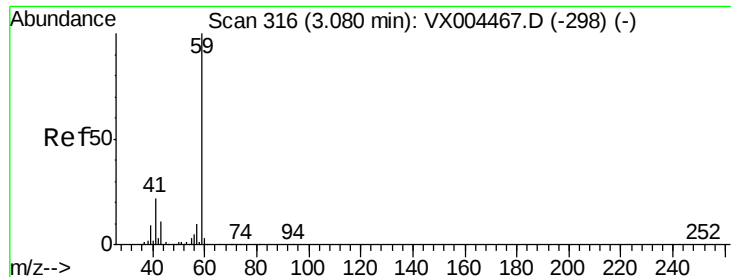
Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



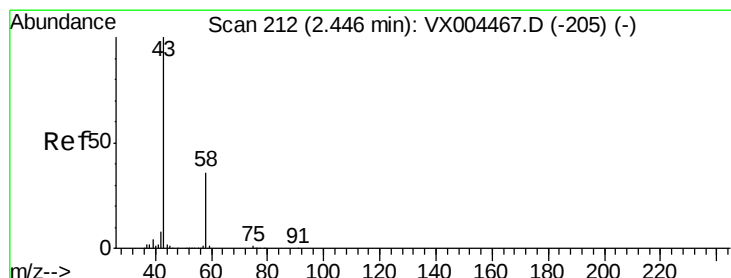
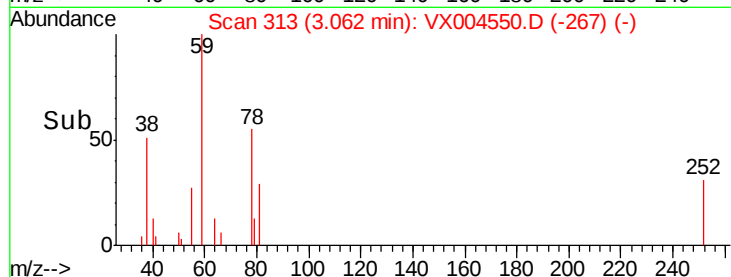
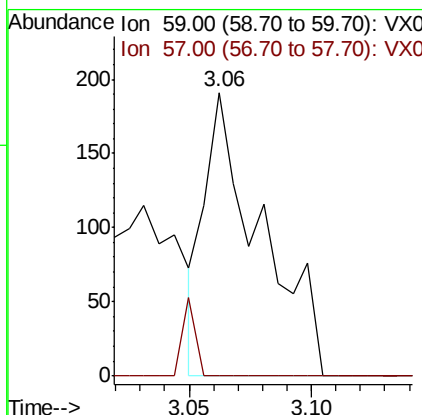
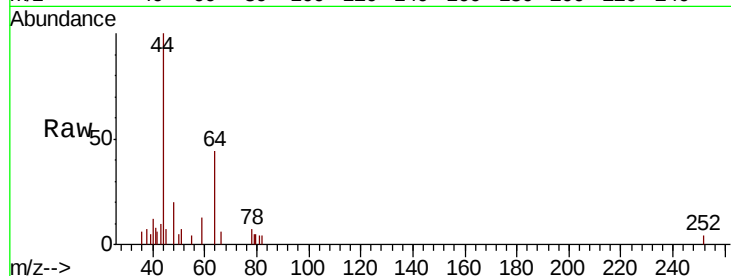
Time-->



#11
Tert butvl alcohol
Concen: 0.35 ug/l
RT: 3.06 min Scan# 313
Delta R.T. -0.02 min
Lab File: VX004550.D
Acq: 14 Sep 2018 19:47

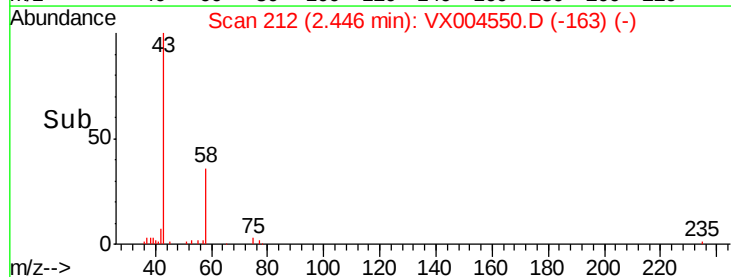
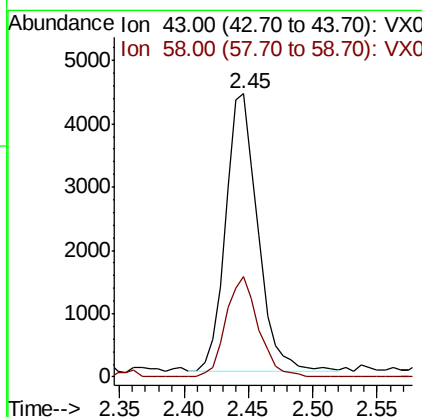
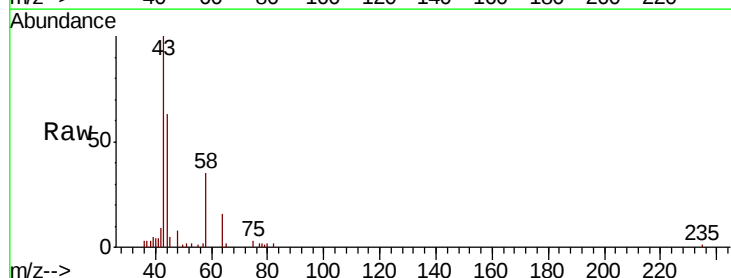
Instrument :
MSVOA_X
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BP-DUP01-20180912

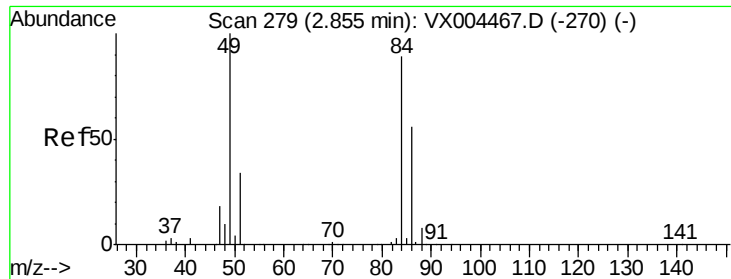
Tot Ion: 59 Resp: 304
Ion Ratio Lower Upper
59 100
57 6.3 8.2 12.4#



#16
Acetone
Concen: 4.32 ug/l
RT: 2.45 min Scan# 212
Delta R.T. 0.00 min
Lab File: VX004550.D
Acq: 14 Sep 2018 19:47

Tgt Ion: 43 Resp: 7694
Ion Ratio Lower Upper
43 100
58 36.0 26.2 39.4

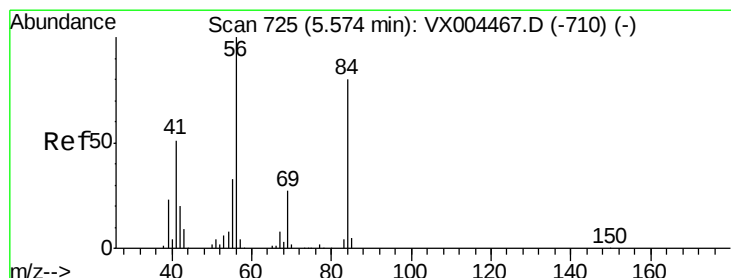
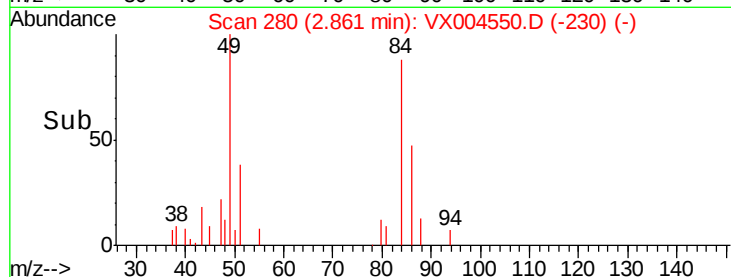
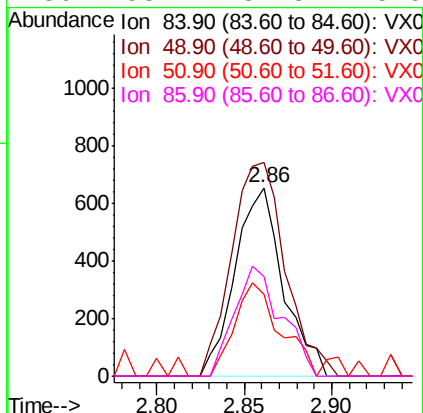
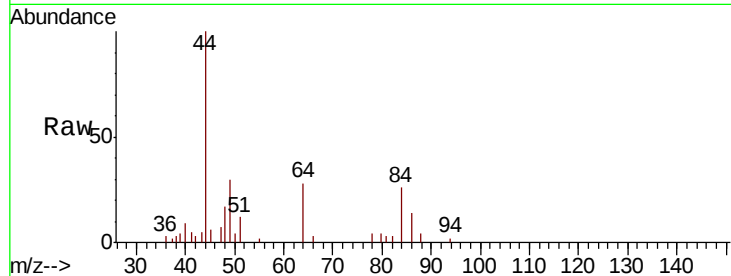




#20
Methvlene Chloride
Concen: 0.34 ug/l
RT: 2.86 min Scan# 280
Delta R.T. 0.01 min
Lab File: VX004550.D
Acq: 14 Sep 2018 19:47

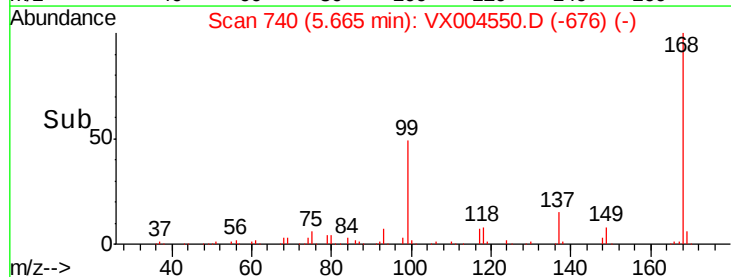
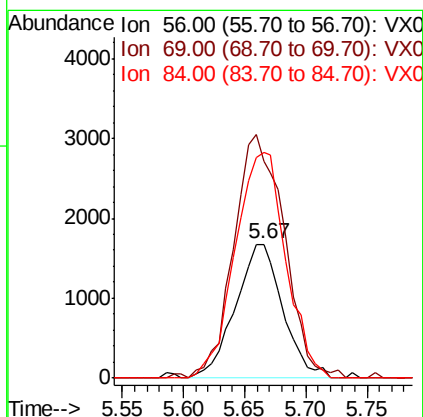
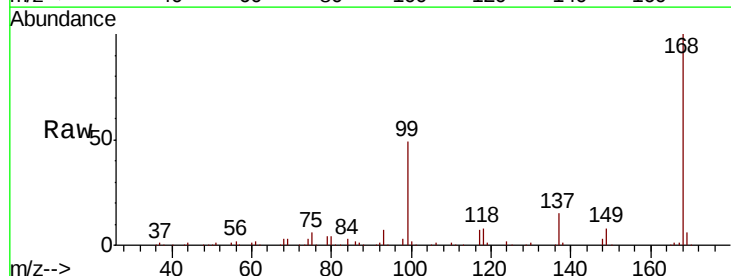
Instrument :
MSVOA_X
ClientSampleId :
BP-DUP01-20180912

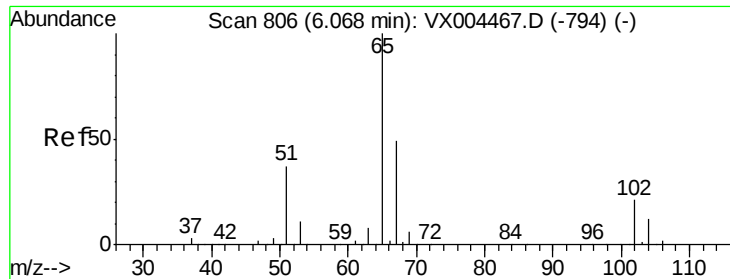
Tot Ion:	84	Resp:	1256
Ion	Ratio	Lower	Upper
84	100		
49	113.5	101.2	151.8
51	43.6	29.5	44.3
86	53.1	52.3	78.5



#31
Cyclohexane
Concen: 0.85 ug/l
RT: 5.67 min Scan# 740
Delta R.T. 0.09 min
Lab File: VX004550.D
Acq: 14 Sep 2018 19:47

Tgt Ion:	56	Resp:	4507
Ion	Ratio	Lower	Upper
56	100		
69	162.5	25.4	38.2#
84	169.1	71.4	107.2#





#33

1,2-Dichloroethane-d4

Concen: 50.24 ug/l

RT: 6.07 min Scan# 806

Delta R.T. 0.00 min

Lab File: VX004550.D

Acq: 14 Sep 2018 19:47

Instrument :

MSVOA_X

ClientSampleId :

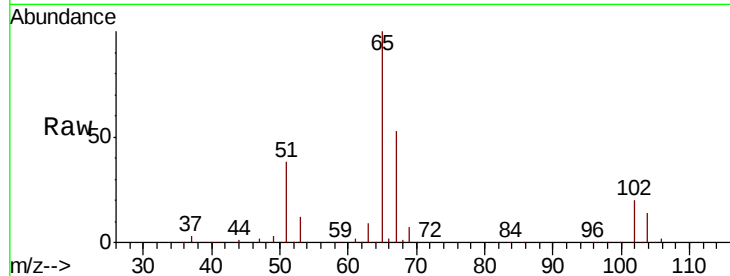
BP-DUP01-20180912

Tot Ion: 65 Resp: 183395

Ion Ratio Lower Upper

65 100

67 55.2 0.0 106.8



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

6.07

80000

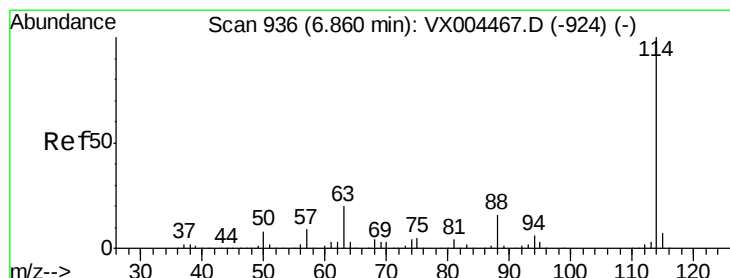
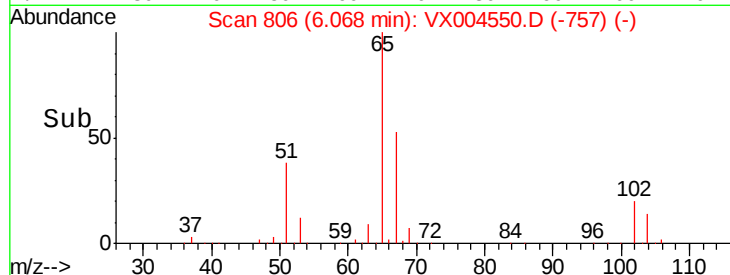
60000

40000

20000

0

Time--> 5.90 6.00 6.10 6.20



#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 6.86 min Scan# 936

Delta R.T. 0.00 min

Lab File: VX004550.D

Acq: 14 Sep 2018 19:47

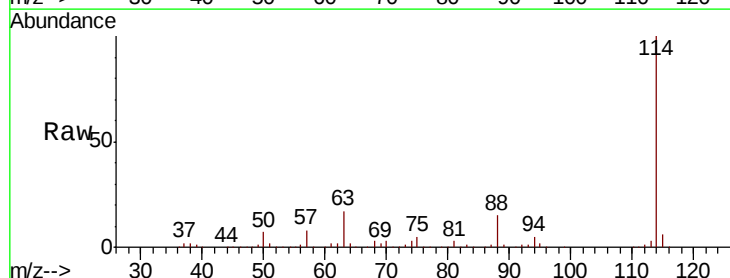
Tgt Ion: 114 Resp: 420416

Ion Ratio Lower Upper

114 100

63 16.6 0.0 39.0

88 15.1 0.0 30.4



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

250000

200000

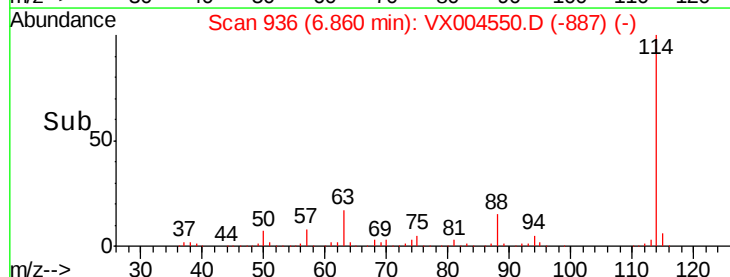
150000

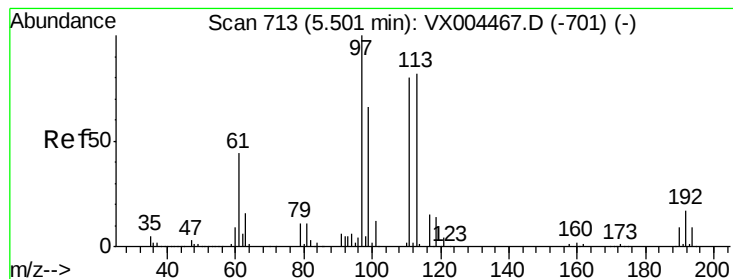
100000

50000

0

Time--> 6.70 6.80 6.90 7.00





#35

Dibromofluoromethane

Concen: 43.21 ug/l

RT: 5.49 min Scan# 712

Delta R.T. -0.01 min

Lab File: VX004550.D

Acq: 14 Sep 2018 19:47

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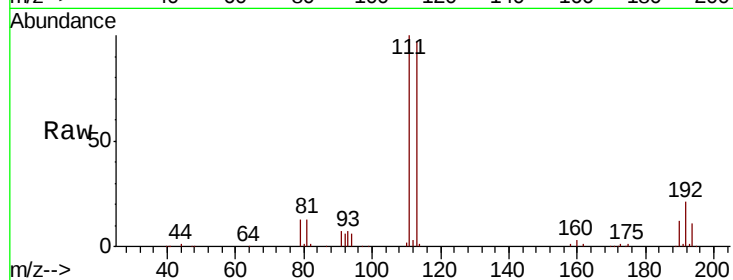
Tot Ion:113 Resp: 166229

Ion Ratio Lower Upper

113 100

111 102.6 82.4 123.6

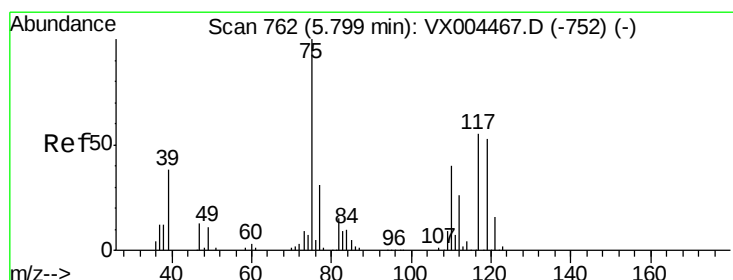
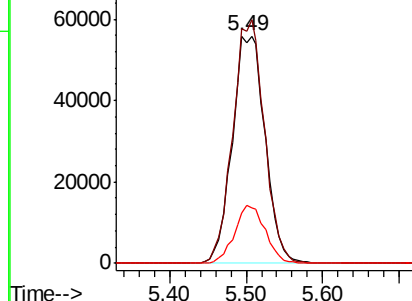
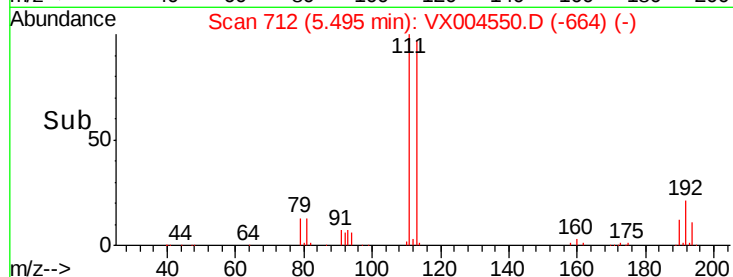
192 23.8 19.4 29.2



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: 3.56 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.13 min

Lab File: VX004550.D

Acq: 14 Sep 2018 19:47

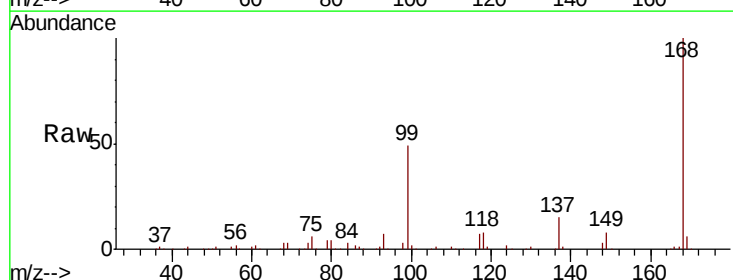
Tgt Ion: 75 Resp: 18148

Ion Ratio Lower Upper

75 100

110 8.6 18.0 54.0#

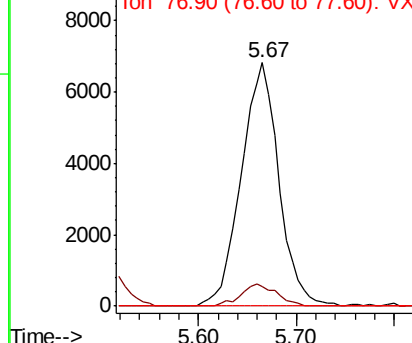
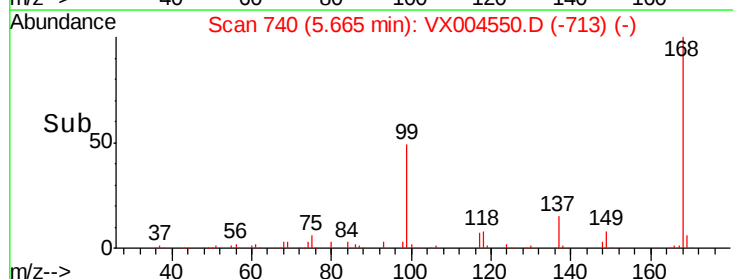
77 0.0 24.6 36.8#

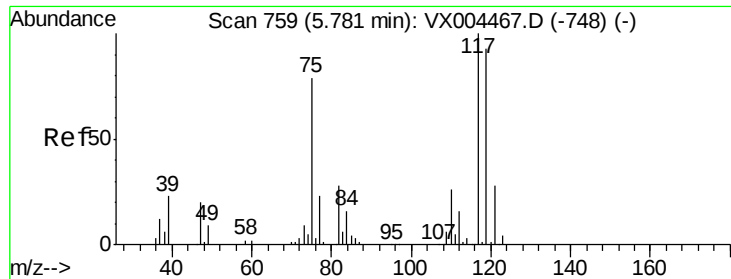


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 4.94 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.12 min

Lab File: VX004550.D

Acq: 14 Sep 2018 19:47

Instrument :

MSVOA_X

ClientSampleId :

BP-DUP01-20180912

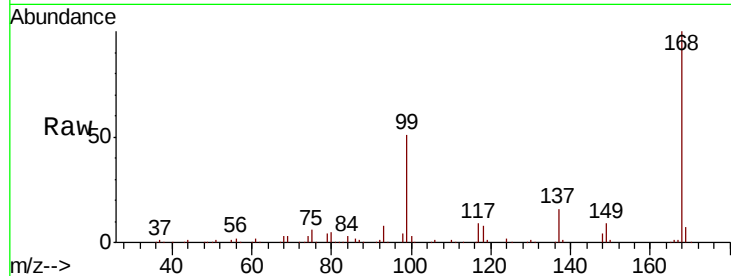
Tot Ion:117 Resp: 24620

Ion Ratio Lower Upper

117 100

119 6.9 78.8 118.2#

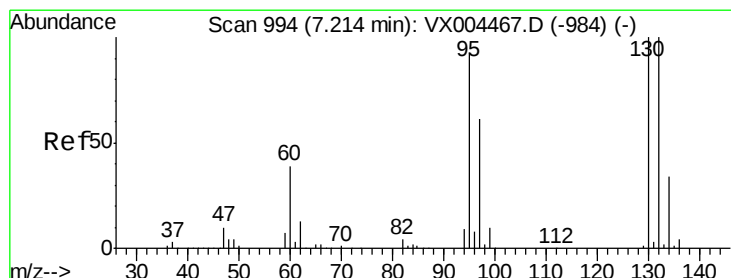
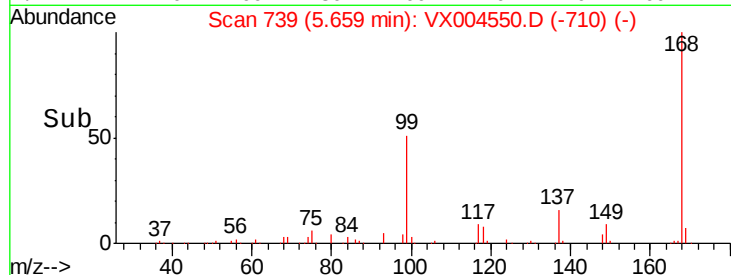
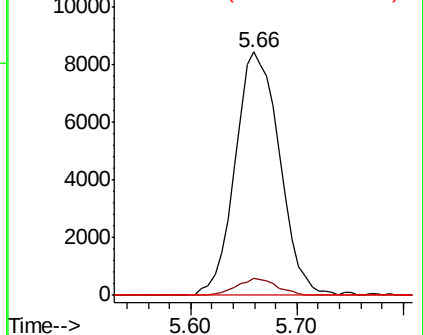
121 0.0 24.9 37.3#



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: 1.30 ug/l

RT: 7.22 min Scan# 995

Delta R.T. 0.01 min

Lab File: VX004550.D

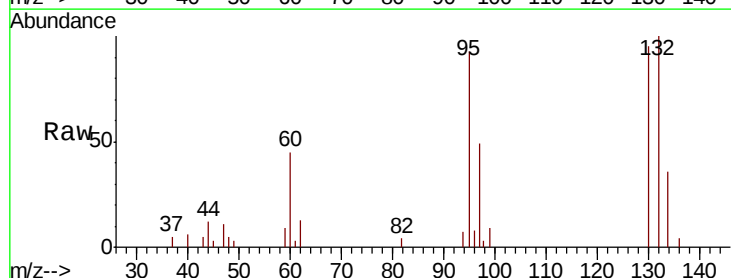
Acq: 14 Sep 2018 19:47

Tgt Ion:130 Resp: 5097

Ion Ratio Lower Upper

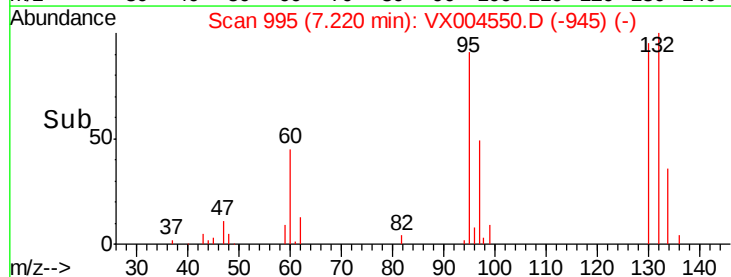
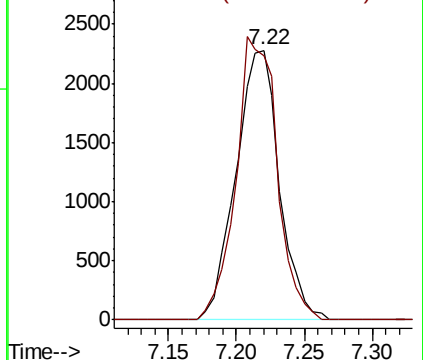
130 100

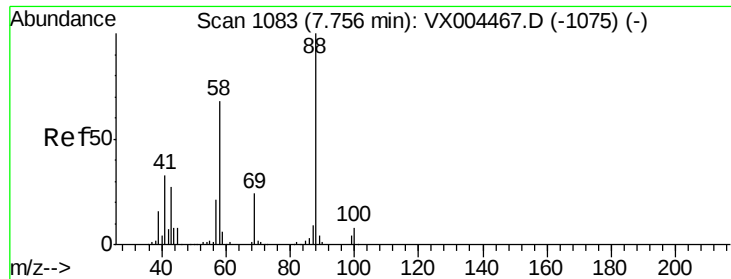
95 98.0 0.0 181.6



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0





#49

1,4-Dioxane

Concen: 1.22 ug/l

RT: 7.76 min Scan# 1084

Delta R.T. 0.01 min

Lab File: VX004550.D

Acq: 14 Sep 2018 19:47

Instrument :

MSVOA_X

ClientSampleId :

BP-DUP01-20180912

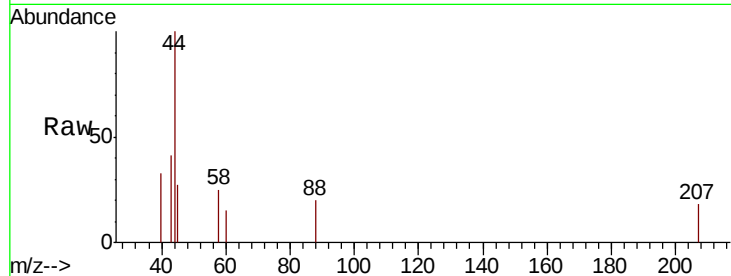
Tot Ion: 88 Resp: 110

Ion Ratio Lower Upper

88 100

43 96.4 24.7 37.1#

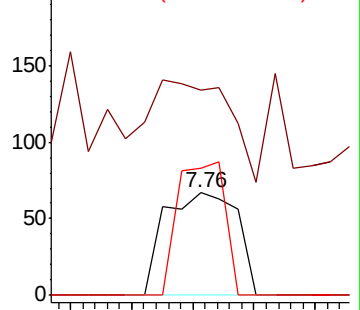
58 83.6 55.3 82.9#



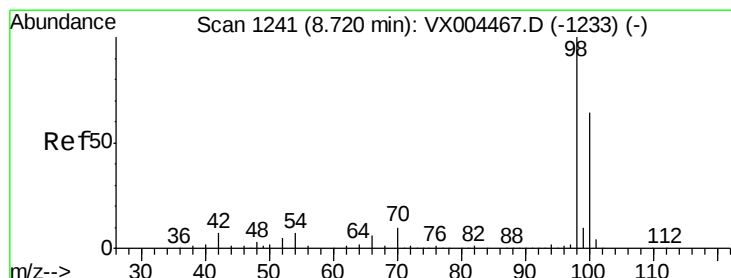
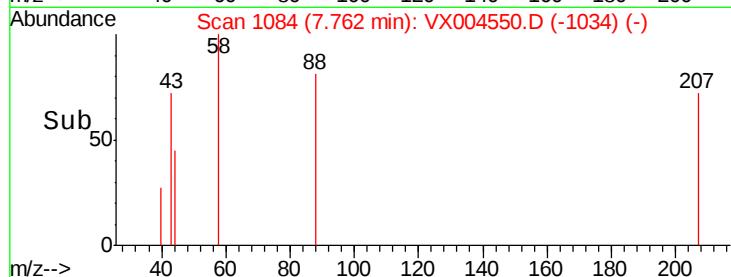
Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



Time-->



#50

Toluene-d8

Concen: 43.54 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.01 min

Lab File: VX004550.D

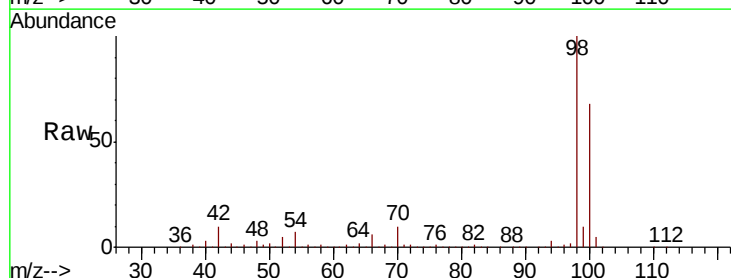
Acq: 14 Sep 2018 19:47

Tgt Ion: 98 Resp: 561677

Ion Ratio Lower Upper

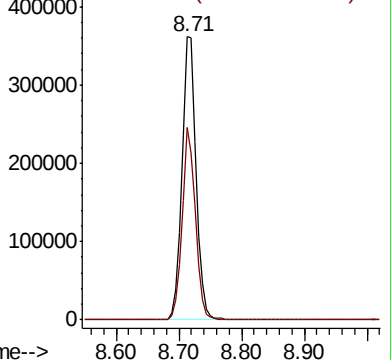
98 100

100 63.7 52.9 79.3

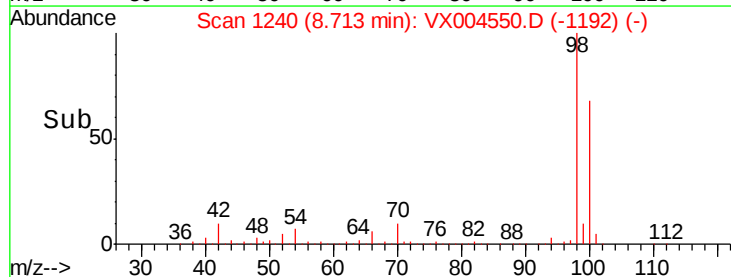


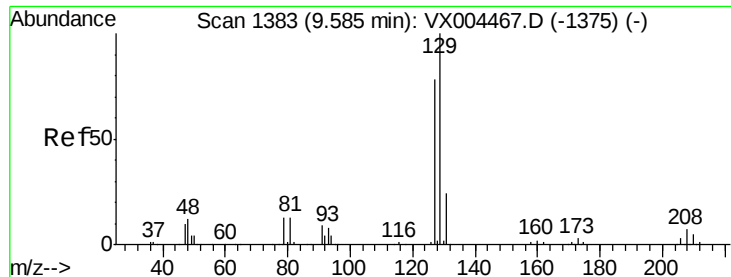
Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V



Time-->





#60

Dibromochloromethane

Concen: 0.20 ug/l

RT: 9.34 min Scan# 1342

Delta R.T. -0.25 min

Lab File: VX004550.D

Acq: 14 Sep 2018 19:47

Instrument :

MSVOA_X

ClientSampleId :

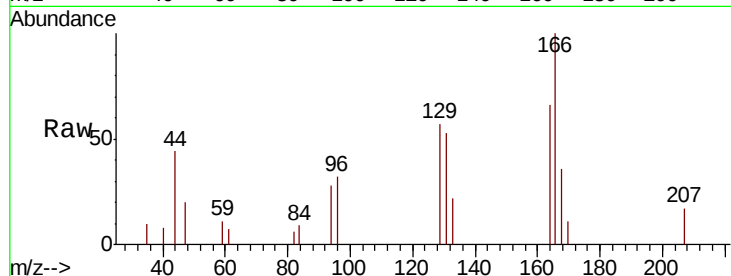
BP-DUP01-20180912

Tot Ion:129 Resp: 738

Ion Ratio Lower Upper

129 100

127 0.0 38.5 115.5#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V

9.34

600

500

400

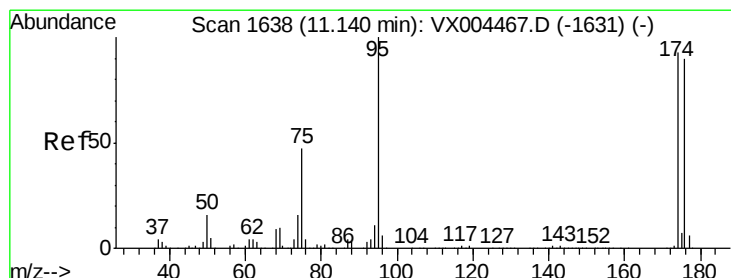
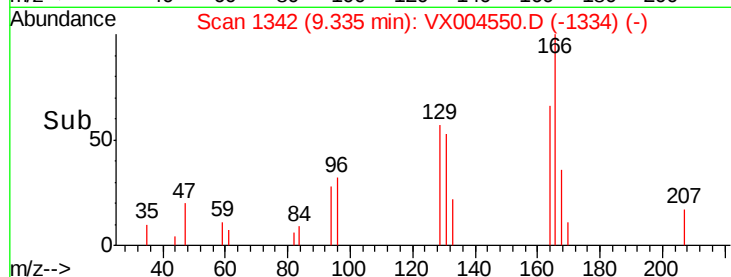
300

200

100

0

Time-->



#62

4-Bromofluorobenzene

Concen: 40.87 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.00 min

Lab File: VX004550.D

Acq: 14 Sep 2018 19:47

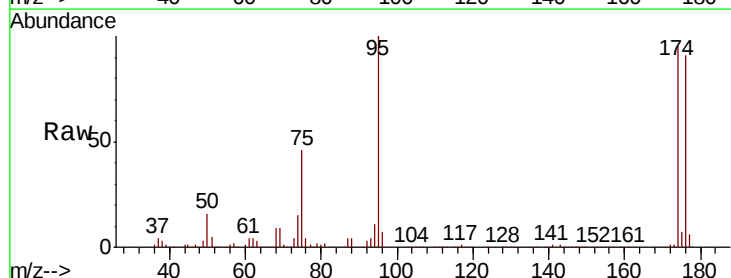
Tgt Ion: 95 Resp: 188231

Ion Ratio Lower Upper

95 100

174 92.5 0.0 185.2

176 89.5 0.0 178.6



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

200000

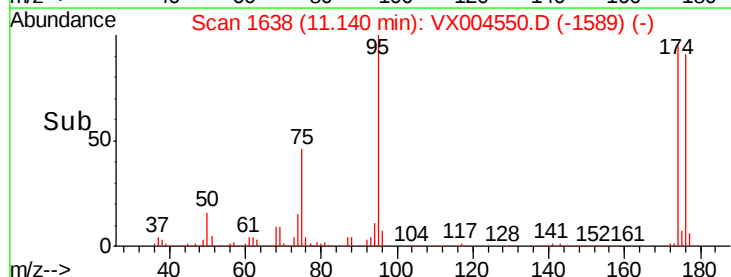
150000

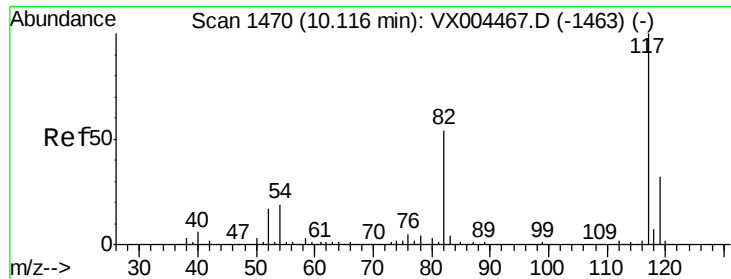
100000

50000

0

Time-->

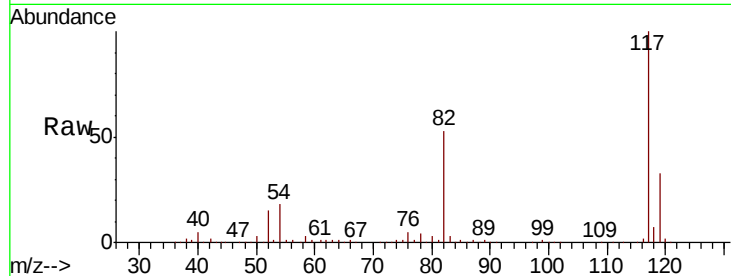




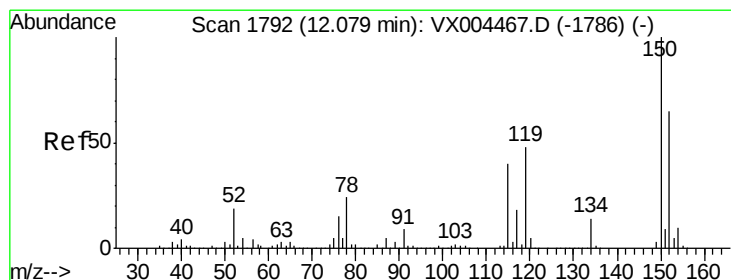
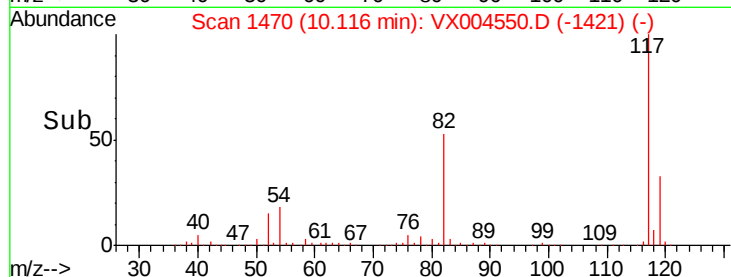
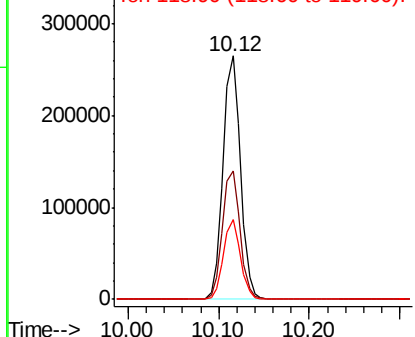
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. 0.00 min
Lab File: VX004550.D
Acq: 14 Sep 2018 19:47

Instrument :
MSVOA_X
ClientSampleId :
BP-DUP01-20180912

Tot Ion:117 Resp: 356833
Ion Ratio Lower Upper
117 100
82 52.7 47.8 71.6
119 32.5 29.3 43.9

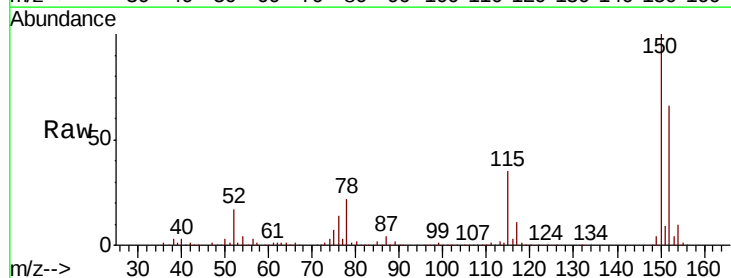


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

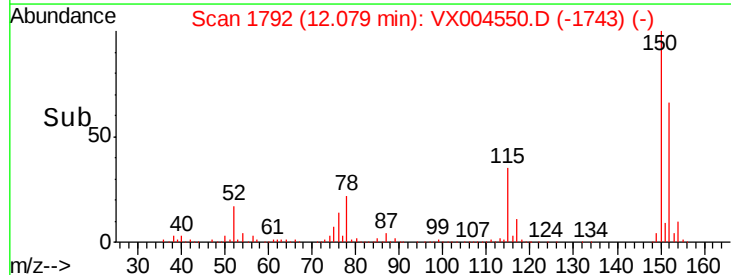
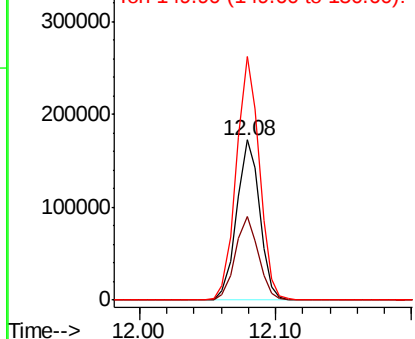


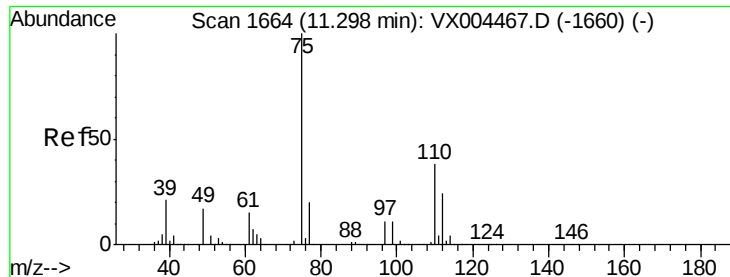
#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. 0.00 min
Lab File: VX004550.D
Acq: 14 Sep 2018 19:47

Tgt Ion:152 Resp: 202950
Ion Ratio Lower Upper
152 100
115 52.4 39.0 117.0
150 152.2 0.0 351.0



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: 21.53 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.16 min

Lab File: VX004550.D

Acq: 14 Sep 2018 19:47

Instrument :

MSVOA_X

ClientSampleId :

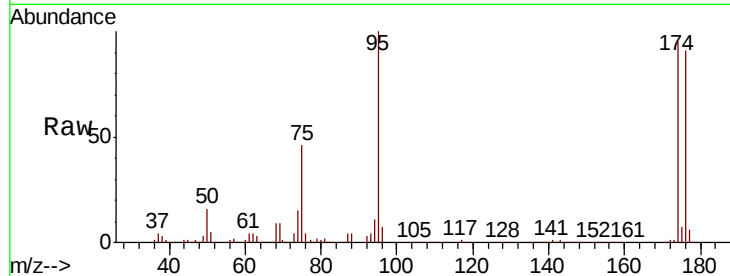
BP-DUP01-20180912

Tot Ion: 75 Resp: 87891

Ion Ratio Lower Upper

75 100

77 1.3 20.2 60.6#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

11.14

80000

60000

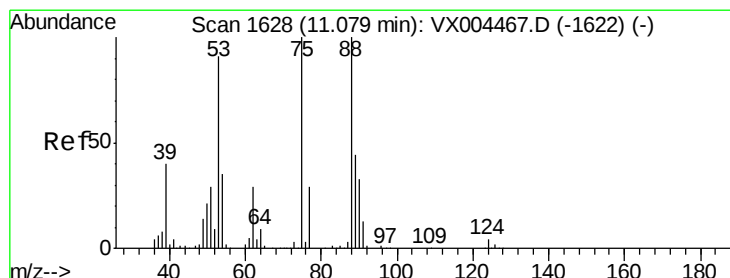
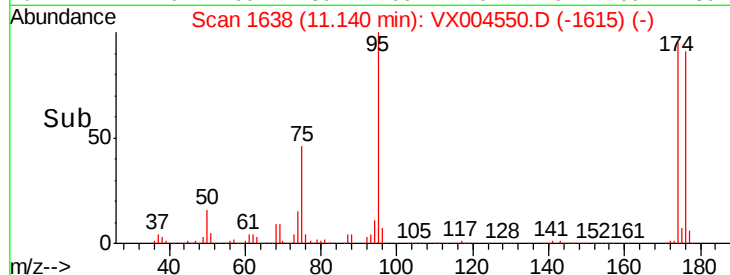
40000

20000

0

Time-->

11.10 11.20 11.30



#81

trans-1,4-Dichloro-2-butene

Concen: 68.61 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.06 min

Lab File: VX004550.D

Acq: 14 Sep 2018 19:47

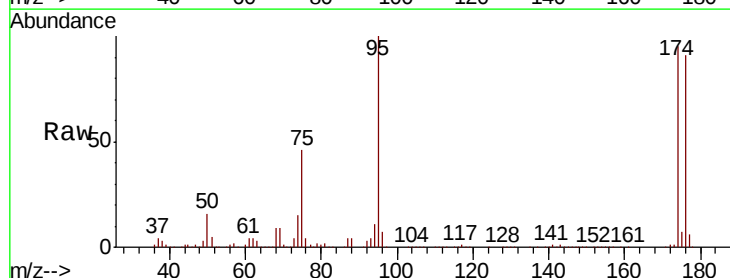
Tgt Ion: 75 Resp: 87891

Ion Ratio Lower Upper

75 100

53 0.1 80.1 120.1#

89 0.0 37.2 55.8#



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

11.14

80000

60000

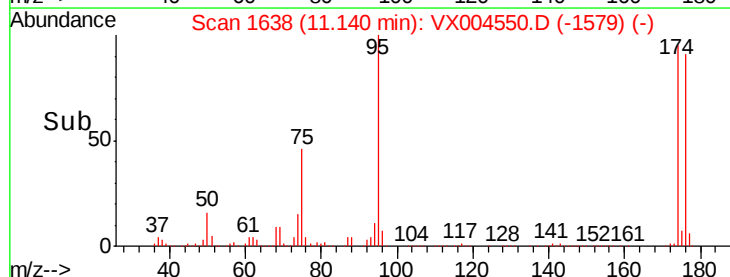
40000

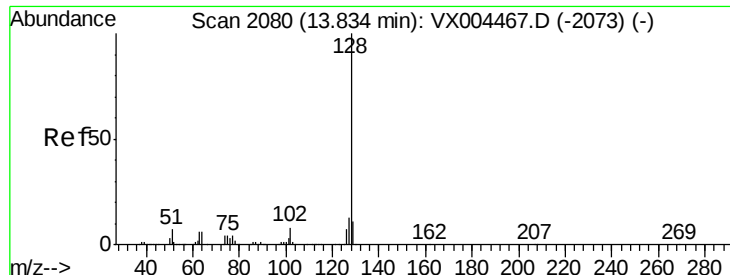
20000

0

Time-->

11.10 11.20 11.30





#95

Naphthalene

Concen: 0.58 ug/l

RT: 13.83 min Scan# 2080

Delta R.T. 0.00 min

Lab File: VX004550.D

Acq: 14 Sep 2018 19:47

Instrument :

MSVOA_X

ClientSampleId :

BP-DUP01-20180912

Tot Ion:128 Resp: 8105

Ion Ratio Lower Upper

128 100

127 12.7 10.2 15.2

129 10.2 8.6 12.8

