

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE020416\
 Data File : BE091392.D
 Acq On : 4 Feb 2016 12:53
 Operator : UM/IZ
 Sample : G4825-06
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 LOQ-WATER2016-02

Quant Time: Feb 05 06:33:25 2016
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\8270-SIM-BE020216.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Feb 03 00:27:53 2016
 Response via : Initial Calibration

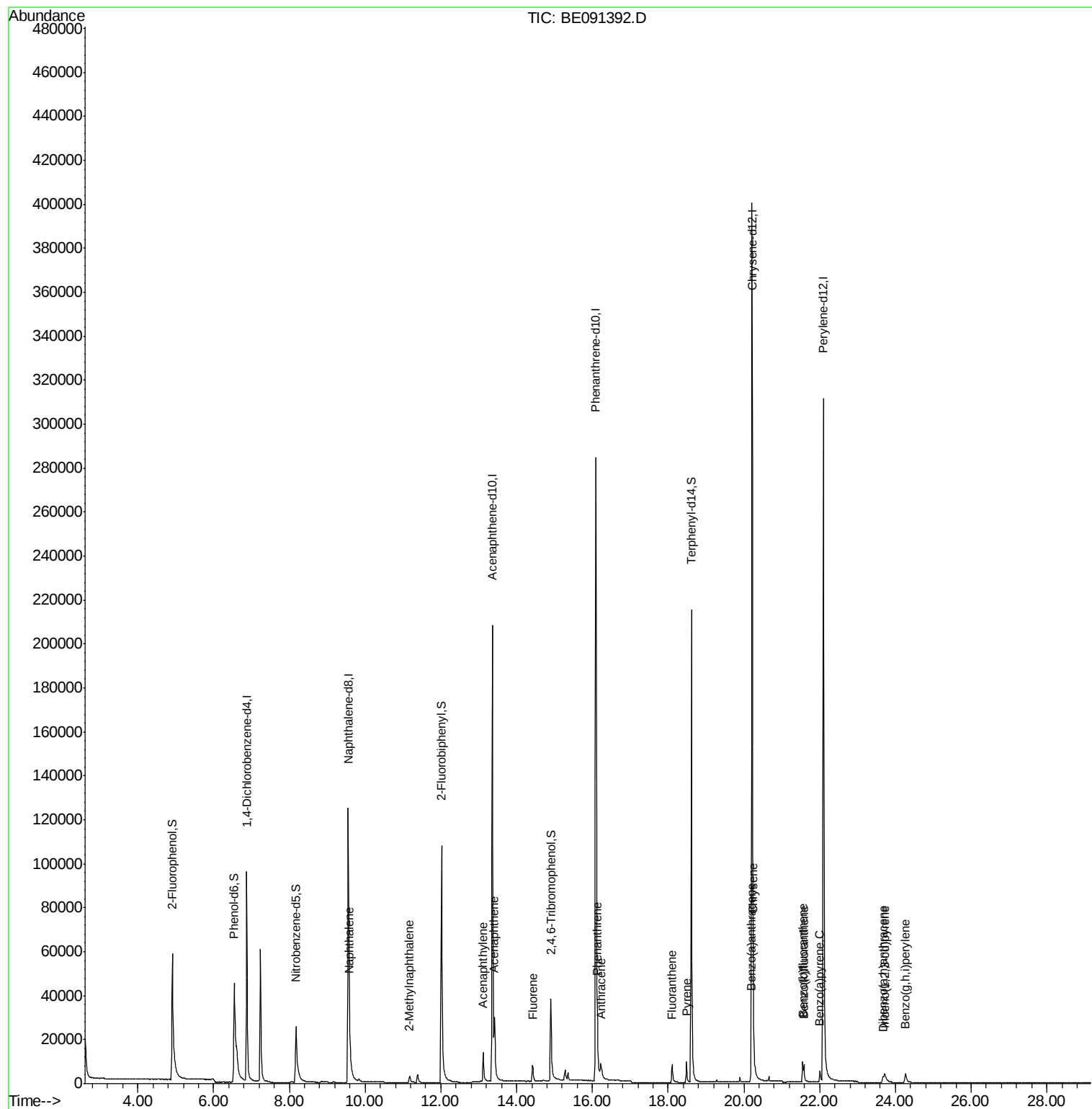
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.87	152	51427	5.00	ng	0.00
4) Naphthalene-d8	9.55	136	237033	5.00	ng	0.00
8) Acenaphthene-d10	13.35	164	150615	5.00	ng	0.00
14) Phenanthrene-d10	16.09	188	395901	5.00	ng	0.00
18) Chrysene-d12	20.21	240	423626	5.00	ng	0.00
24) Perylene-d12	22.10	264	385544	5.00	ng	0.00
System Monitoring Compounds						
2) 2-Fluorophenol	4.91	112	78400	6.46	ng	-0.04
3) Phenol-d6	6.54	99	107441	6.26	ng	-0.03
5) Nitrobenzene-d5	8.17	82	43632	2.90	ng	0.00
9) 2,4,6-Tribromophenol	14.90	330	27088	3.86	ng	0.00
10) 2-Fluorobiphenyl	12.02	172	150739	3.84	ng	0.00
20) Terphenyl-d14	18.62	244	260513	4.16	ng	0.00
Target Compounds						Qvalue
6) Naphthalene	9.60	128	7385	0.14	ng	96
7) 2-Methylnaphthalene	11.17	142	4133	0.25	ng	97
11) Acenaphthylene	13.12	152	24699	0.27	ng	99
12) Acenaphthene	13.42	154	5445	0.13	ng	98
13) Fluorene	14.42	166	6640	0.12	ng	99
15) Phenanthrene	16.13	178	14440	0.14	ng	98
16) Anthracene	16.22	178	10508	0.12	ng	100
17) Fluoranthene	18.10	202	11803	0.22	ng	100
19) Pyrene	18.49	202	12057	0.13	ng	99
21) Benzo(a)anthracene	20.19	228	9615	0.27	ng	98
22) Chrysene	20.25	228	17099	0.09	ng	99
23) Indeno(1,2,3-cd)pyrene	23.72	276	9750	0.26	ng	# 90
25) Benzo(b)fluoranthene	21.55	252	9423	0.24	ng	98
26) Benzo(k)fluoranthene	21.58	252	11976	0.14	ng	97
27) Benzo(a)pyrene	22.01	252	7636	0.25	ng	92
28) Dibenzo(a,h)anthracene	23.68	278	6980	0.33	ng	# 93
29) Benzo(g,h,i)perylene	24.27	276	10192	0.25	ng	95

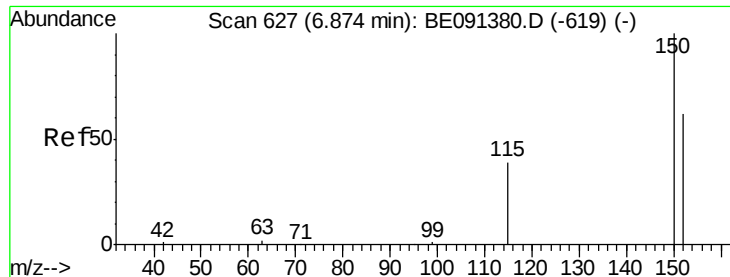
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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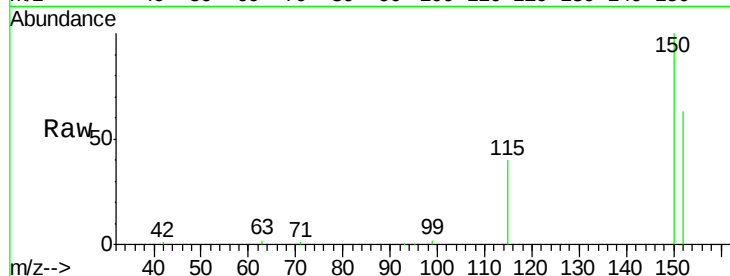


#1

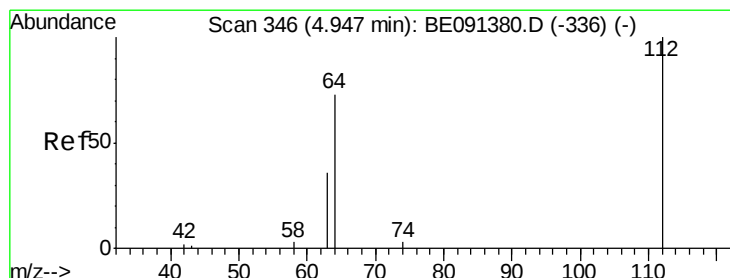
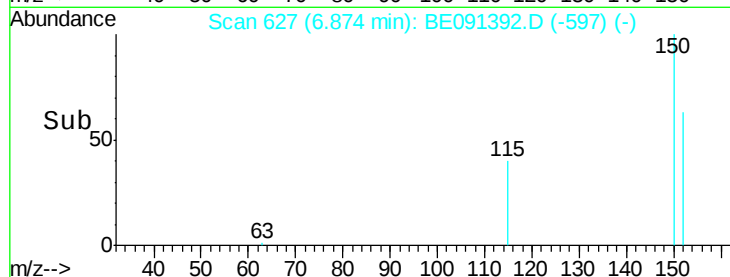
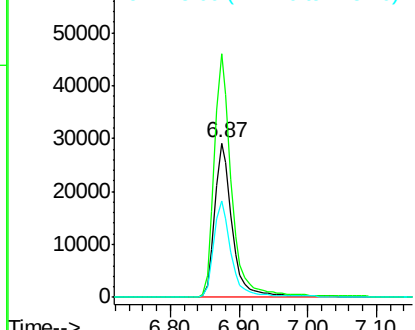
1,4-Dichlorobenzene-d4
Concen: 5.00 ng
RT: 6.87 min Scan# 627
Delta R.T. 0.00 min
Lab File: BE091392.D
Acq: 4 Feb 2016 12:53

Instrument :
BNA_E
ClientSampleId :
LOQ-WATER2016-02

Tgt Ion:152 Resp: 51427
Ion Ratio Lower Upper
152 100
150 157.7 128.9 193.3
115 62.6 50.9 76.3



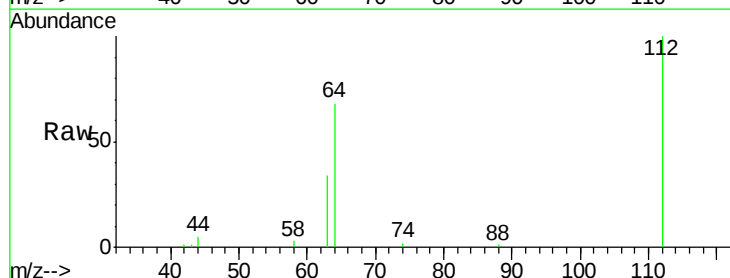
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



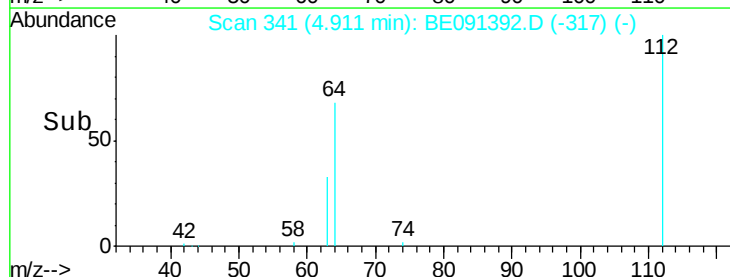
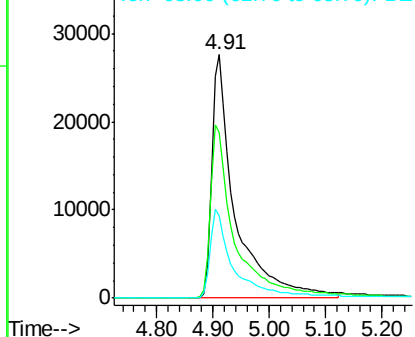
#2

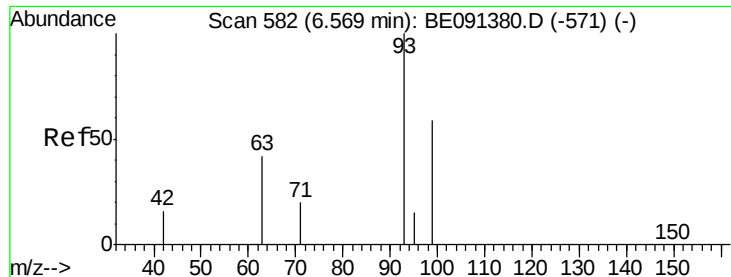
2-Fluorophenol
Concen: 6.46 ng
RT: 4.91 min Scan# 341
Delta R.T. -0.04 min
Lab File: BE091392.D
Acq: 4 Feb 2016 12:53

Tgt Ion:112 Resp: 78400
Ion Ratio Lower Upper
112 100
64 72.8 60.5 90.7
63 36.5 29.8 44.8



Abundance Ion 112.00 (111.70 to 112.70): E
Ion 64.00 (63.70 to 64.70): BE0
Ion 63.00 (62.70 to 63.70): BE0





#3

Phenol-d6

Concen: 6.26 ng

RT: 6.54 min Scan# 578

Delta R.T. -0.03 min

Lab File: BE091392.D

Acq: 4 Feb 2016 12:53

Instrument :

BNA_E

ClientSampleId :

LOQ-WATER2016-02

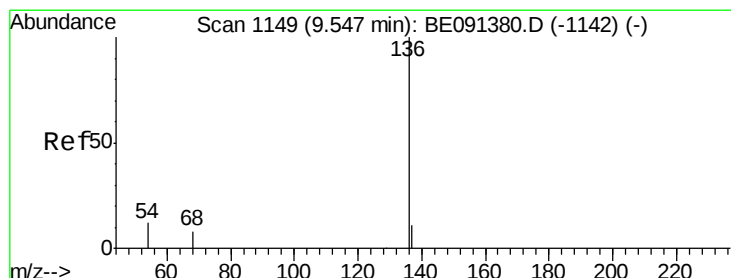
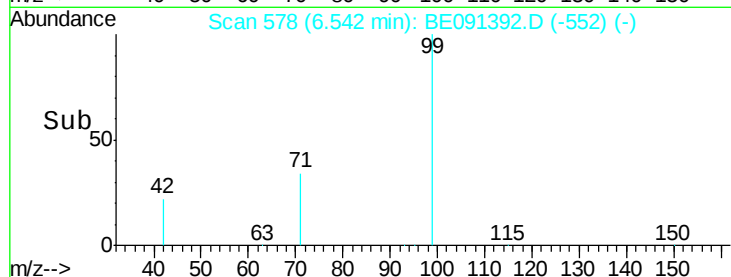
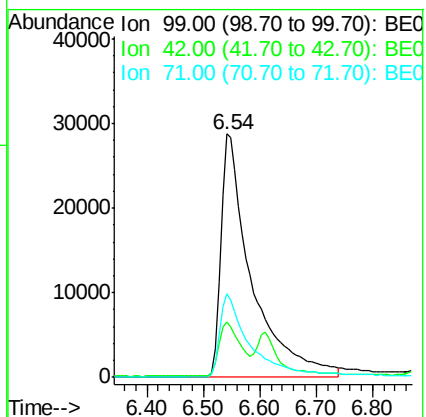
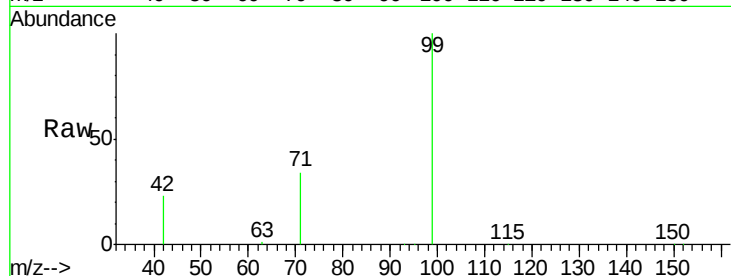
Tgt Ion: 99 Resp: 107441

Ion Ratio Lower Upper

99 100

42 15.8 13.3 19.9

71 33.6 25.6 38.4



#4

Naphthalene-d8

Concen: 5.00 ng

RT: 9.55 min Scan# 1150

Delta R.T. 0.01 min

Lab File: BE091392.D

Acq: 4 Feb 2016 12:53

Tgt Ion: 136 Resp: 237033

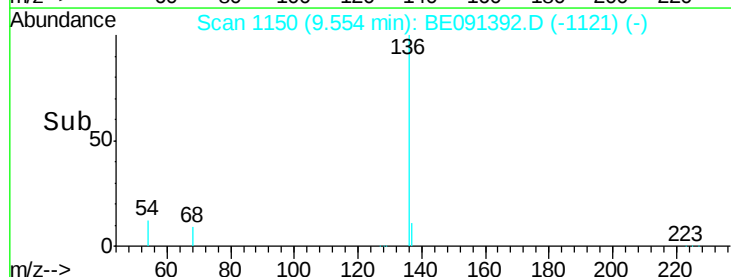
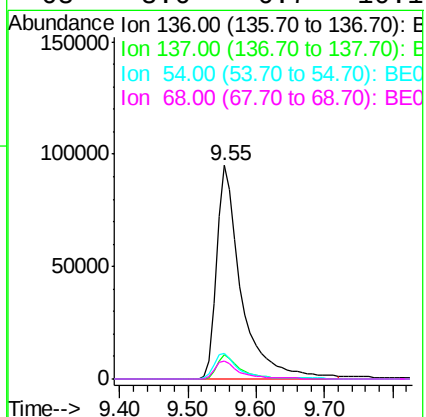
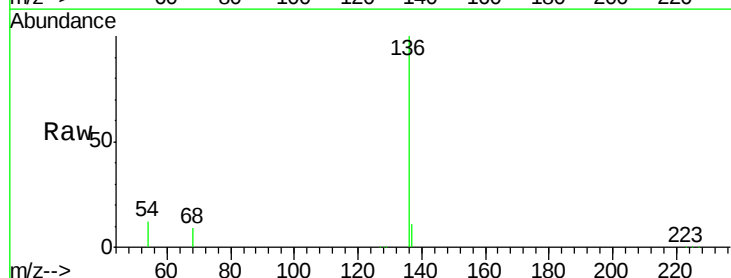
Ion Ratio Lower Upper

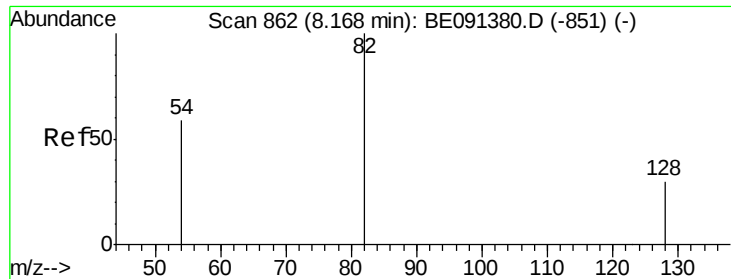
136 100

137 11.1 8.7 13.1

54 12.1 9.3 13.9

68 8.6 6.7 10.1





#5

Nitrobenzene-d5

Concen: 2.90 ng

RT: 8.17 min Scan# 863

Delta R.T. 0.00 min

Lab File: BE091392.D

Acq: 4 Feb 2016 12:53

Instrument :

BNA_E

ClientSampleId :

LOQ-WATER2016-02

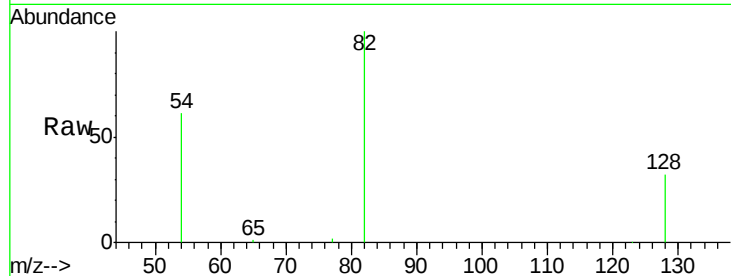
Tgt Ion: 82 Resp: 43632

Ion Ratio Lower Upper

82 100

128 32.0 25.0 37.4

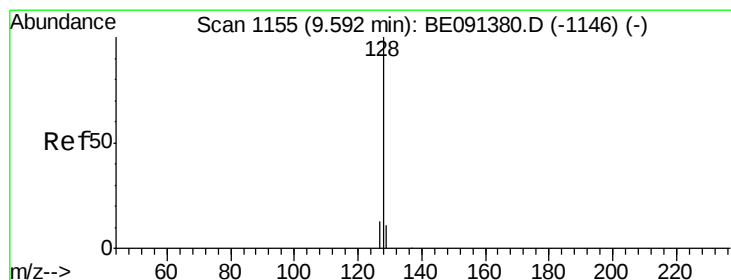
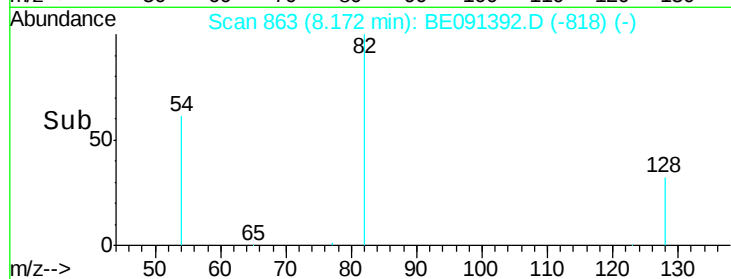
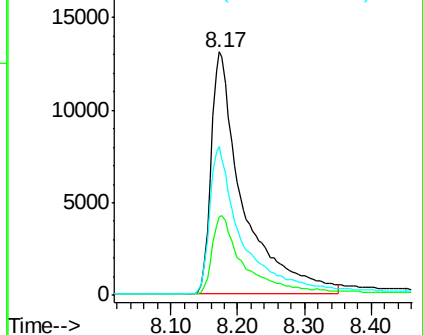
54 61.3 48.1 72.1



Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): BE0

Ion 54.00 (53.70 to 54.70): BE0



#6

Naphthalene

Concen: 0.14 ng

RT: 9.60 min Scan# 1156

Delta R.T. 0.01 min

Lab File: BE091392.D

Acq: 4 Feb 2016 12:53

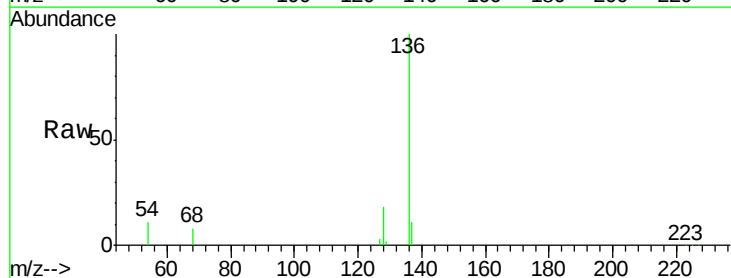
Tgt Ion: 128 Resp: 7385

Ion Ratio Lower Upper

128 100

129 13.4 9.1 13.7

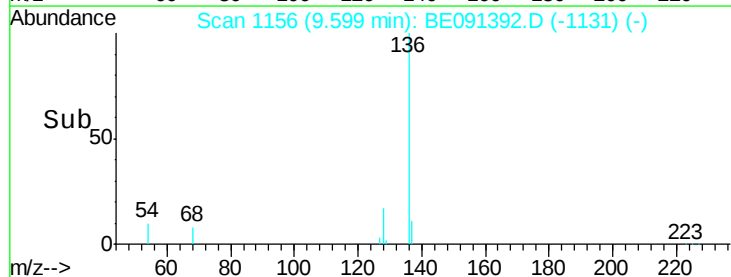
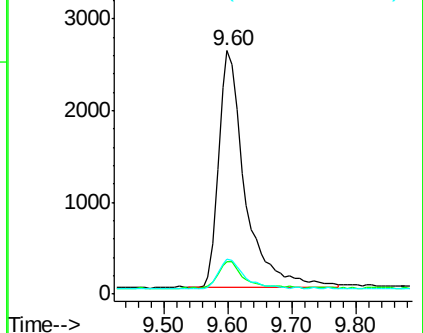
127 14.3 10.5 15.7

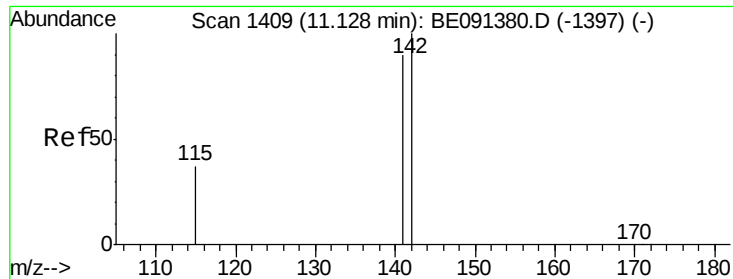


Abundance Ion 128.00 (127.70 to 128.70): BE

Ion 129.00 (128.70 to 129.70): BE

Ion 127.00 (126.70 to 127.70): BE





#7

2-Methylnaphthalene

Concen: 0.25 ng

RT: 11.17 min Scan# 1419

Delta R.T. 0.05 min

Lab File: BE091392.D

Acq: 4 Feb 2016 12:53

Instrument :

BNA_E

ClientSampleId :

LOQ-WATER2016-02

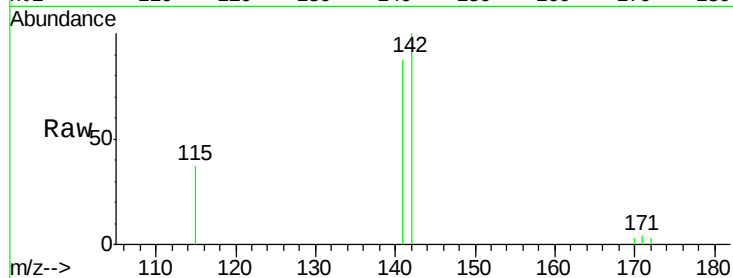
Tgt Ion:142 Resp: 4133

Ion Ratio Lower Upper

142 100

141 87.5 72.3 108.5

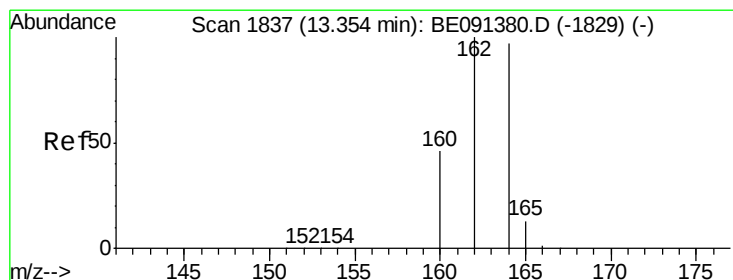
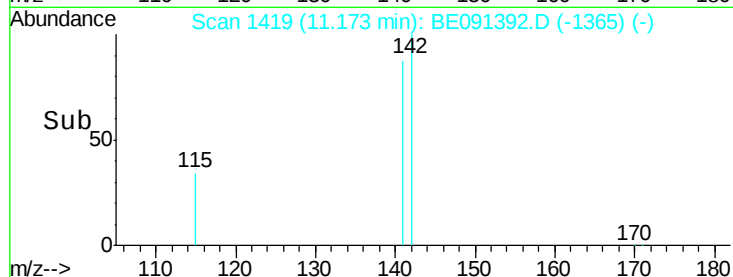
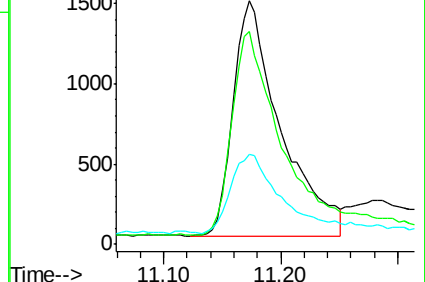
115 37.2 30.5 45.7



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E



#8

Acenaphthene-d10

Concen: 5.00 ng

RT: 13.35 min Scan# 1837

Delta R.T. -0.00 min

Lab File: BE091392.D

Acq: 4 Feb 2016 12:53

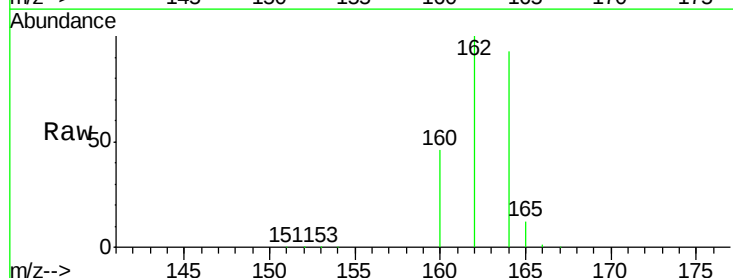
Tgt Ion:164 Resp: 150615

Ion Ratio Lower Upper

164 100

162 107.2 82.2 123.2

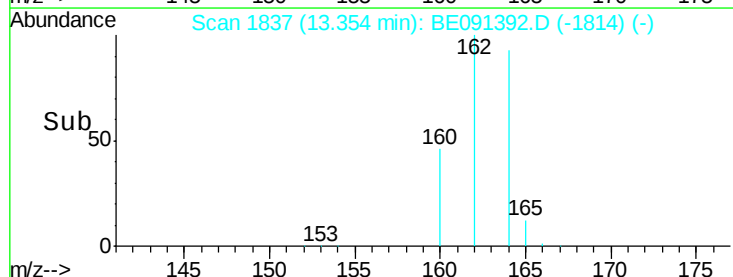
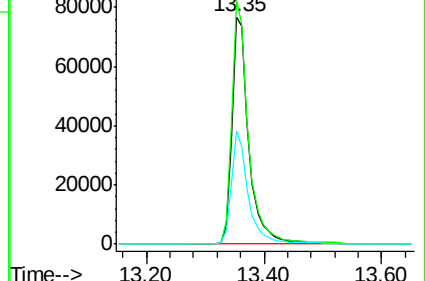
160 49.6 37.8 56.8

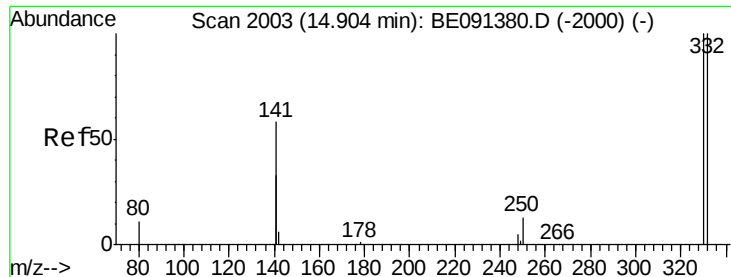


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E





#9

2,4,6-Tribromophenol

Concen: 3.86 ng

RT: 14.90 min Scan# 2003

Delta R.T. 0.00 min

Lab File: BE091392.D

Acq: 4 Feb 2016 12:53

Instrument :

BNA_E

ClientSampleId :

LOQ-WATER2016-02

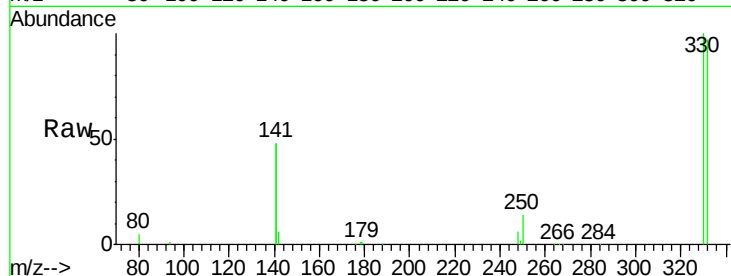
Tgt Ion:330 Resp: 27088

Ion Ratio Lower Upper

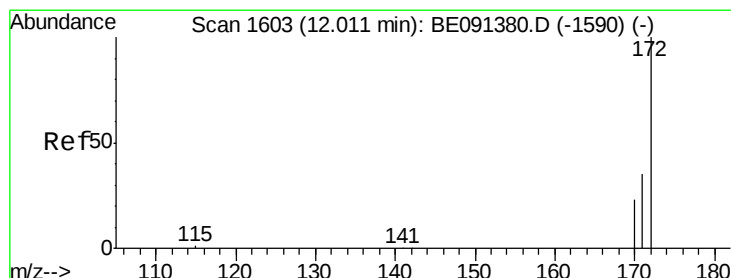
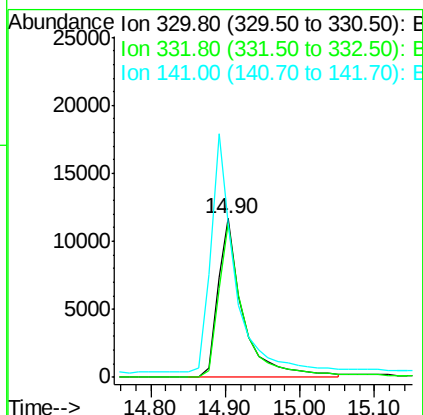
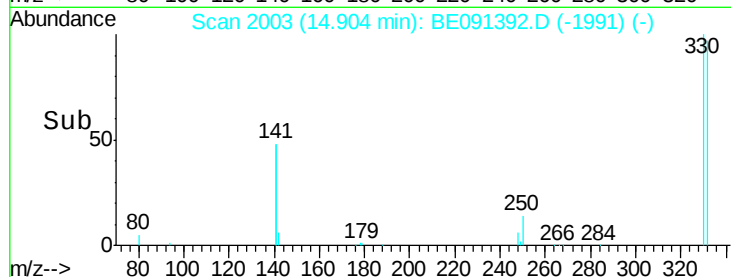
330 100

332 96.3 78.8 118.2

141 145.6 105.1 157.7



Abundance Ion 329.80 (329.50 to 330.50): E
Ion 331.80 (331.50 to 332.50): E
Ion 141.00 (140.70 to 141.70): E



#10

2-Fluorobiphenyl

Concen: 3.84 ng

RT: 12.02 min Scan# 1604

Delta R.T. 0.00 min

Lab File: BE091392.D

Acq: 4 Feb 2016 12:53

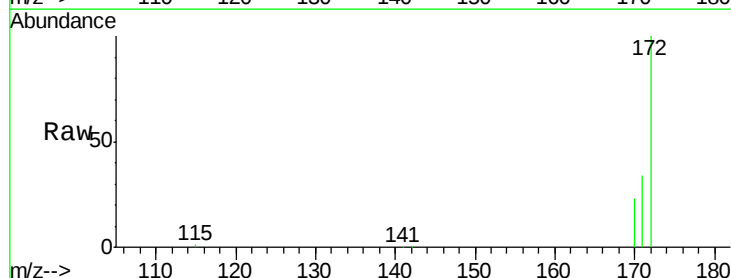
Tgt Ion:172 Resp: 150739

Ion Ratio Lower Upper

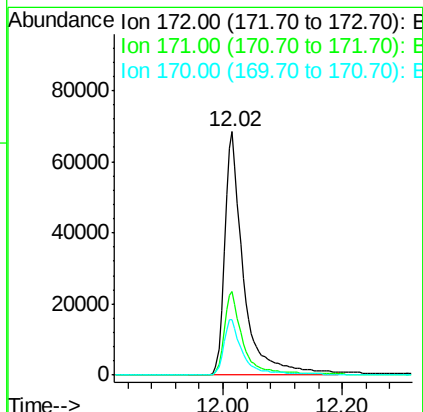
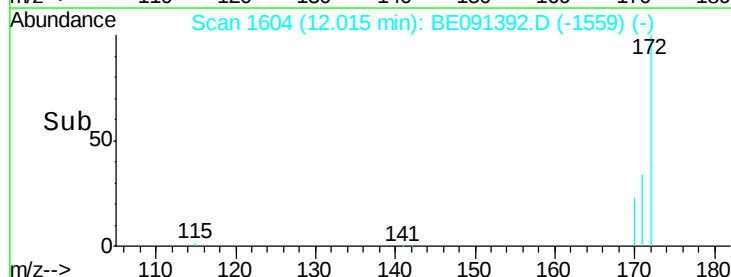
172 100

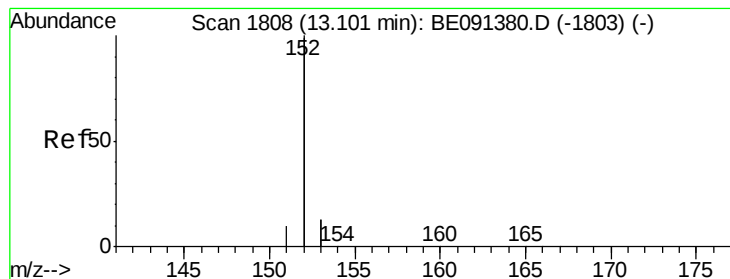
171 34.5 27.8 41.8

170 22.9 18.6 28.0



Abundance Ion 172.00 (171.70 to 172.70): E
Ion 171.00 (170.70 to 171.70): E
Ion 170.00 (169.70 to 170.70): E





#11

Acenaphthylene

Concen: 0.27 ng

RT: 13.12 min Scan# 1810

Delta R.T. 0.02 min

Lab File: BE091392.D

Acq: 4 Feb 2016 12:53

Instrument :

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ClientSampleId :

LOQ-WATER2016-02

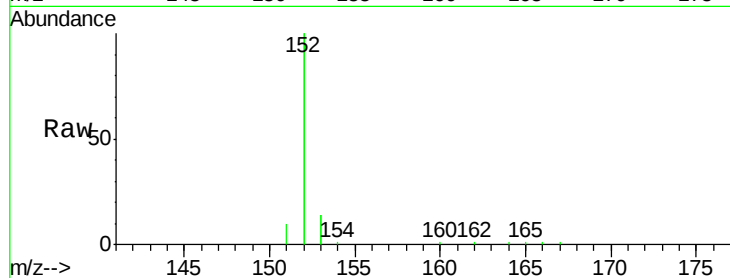
Tgt Ion:152 Resp: 24699

Ion Ratio Lower Upper

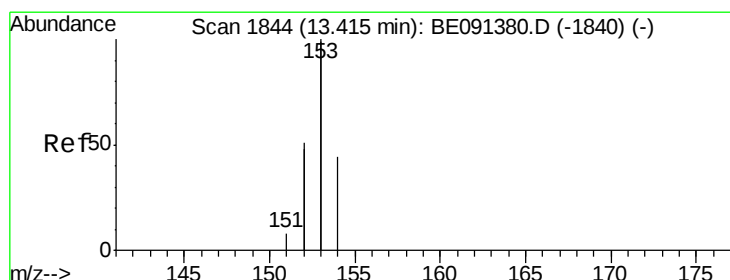
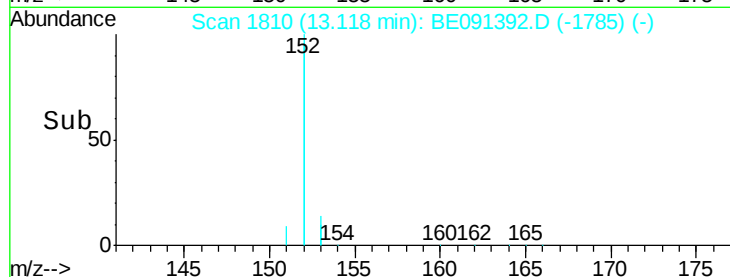
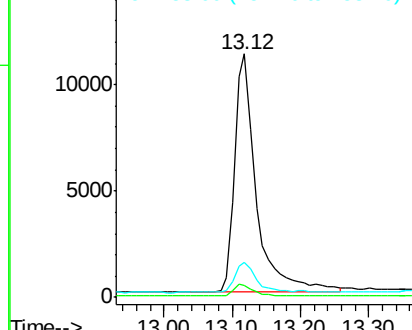
152 100

151 5.0 3.8 5.8

153 13.1 10.2 15.4



Abundance Ion 152.00 (151.70 to 152.70): E
Ion 151.00 (150.70 to 151.70): E
Ion 153.00 (152.70 to 153.70): E



#12

Acenaphthene

Concen: 0.13 ng

RT: 13.42 min Scan# 1844

Delta R.T. -0.00 min

Lab File: BE091392.D

Acq: 4 Feb 2016 12:53

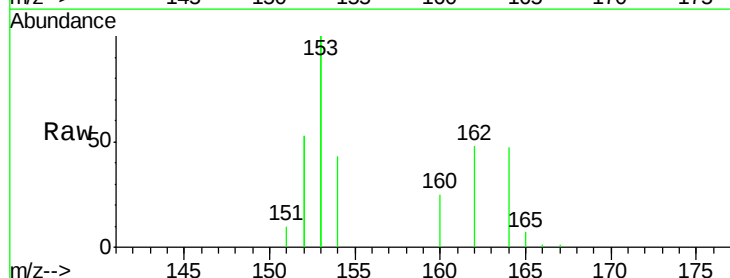
Tgt Ion:154 Resp: 5445

Ion Ratio Lower Upper

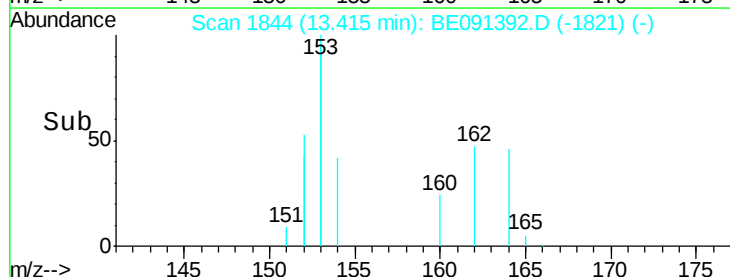
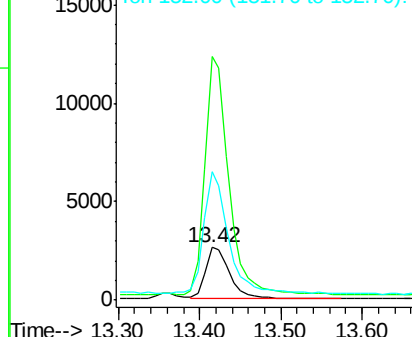
154 100

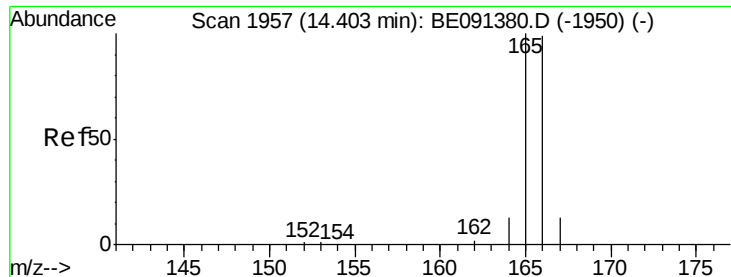
153 458.9 369.8 554.8

152 238.5 194.4 291.6



Abundance Ion 154.00 (153.70 to 154.70): E
Ion 153.00 (152.70 to 153.70): E
Ion 152.00 (151.70 to 152.70): E





#13

Fluorene

Concen: 0.12 ng

RT: 14.42 min Scan# 1959

Delta R.T. 0.02 min

Lab File: BE091392.D

Acq: 4 Feb 2016 12:53

Instrument :

BNA_E

ClientSampleId :

LOQ-WATER2016-02

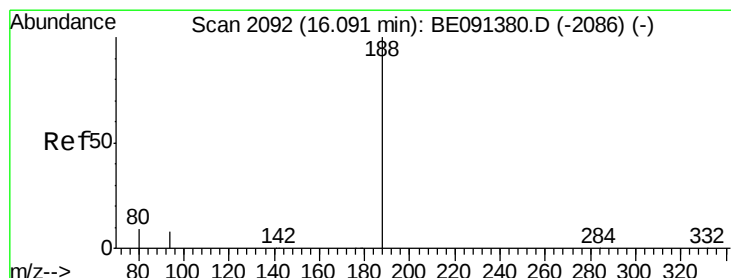
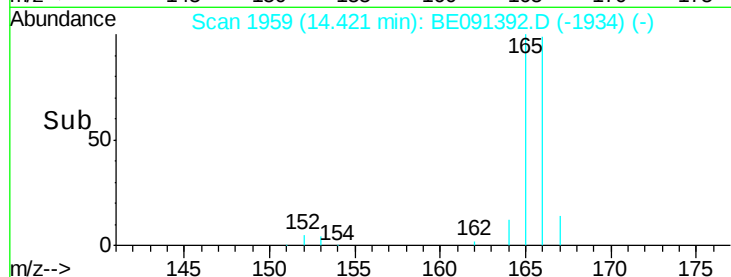
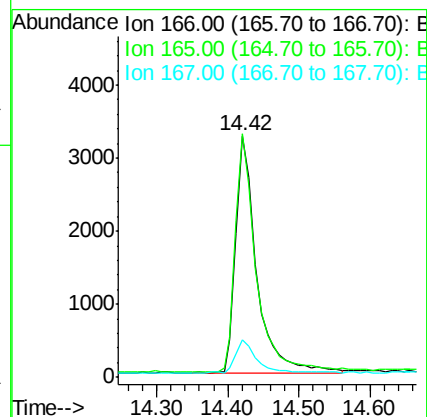
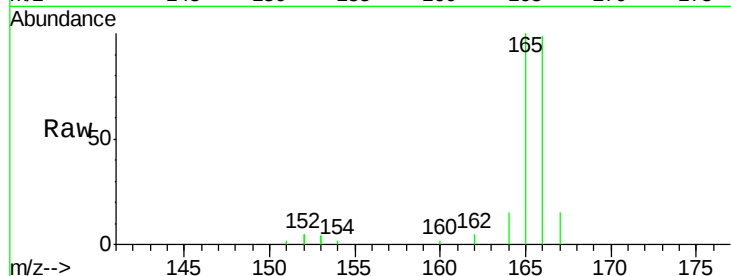
Tgt Ion:166 Resp: 6640

Ion Ratio Lower Upper

166 100

165 99.8 79.3 118.9

167 14.1 10.6 16.0



#14

Phenanthrene-d10

Concen: 5.00 ng

RT: 16.09 min Scan# 2092

Delta R.T. -0.00 min

Lab File: BE091392.D

Acq: 4 Feb 2016 12:53

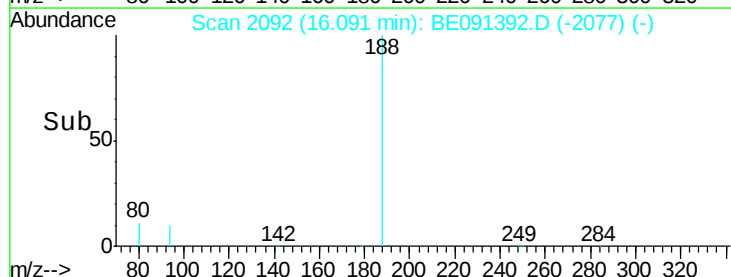
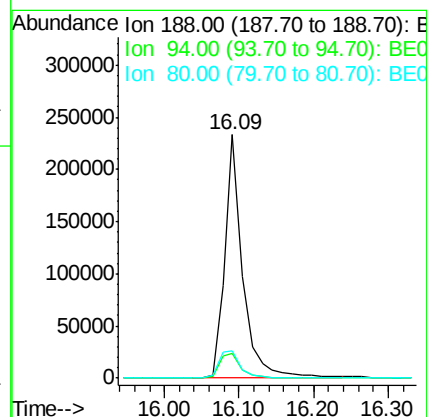
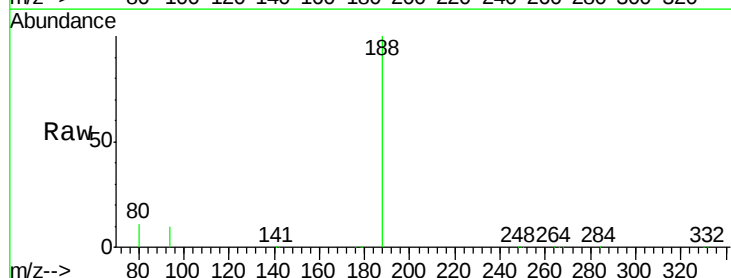
Tgt Ion:188 Resp: 395901

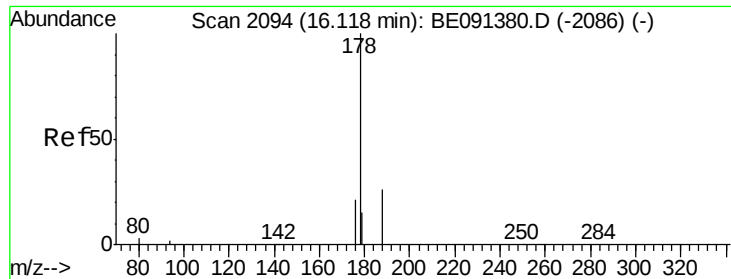
Ion Ratio Lower Upper

188 100

94 10.2 6.6 10.0#

80 11.0 7.0 10.6#





#15

Phenanthrene

Concen: 0.14 ng

RT: 16.13 min Scan# 2095

Delta R.T. 0.01 min

Lab File: BE091392.D

Acq: 4 Feb 2016 12:53

Instrument :

BNA_E

ClientSampleId :

LOQ-WATER2016-02

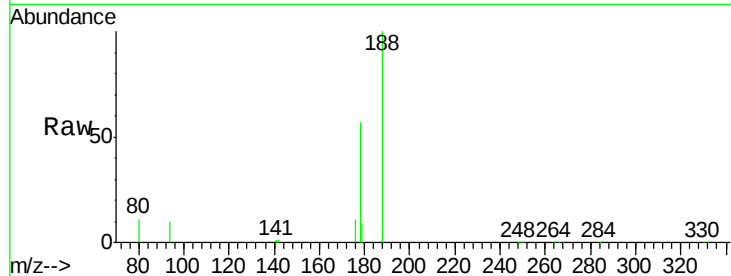
Tgt Ion:178 Resp: 14440

Ion Ratio Lower Upper

178 100

176 18.5 15.4 23.2

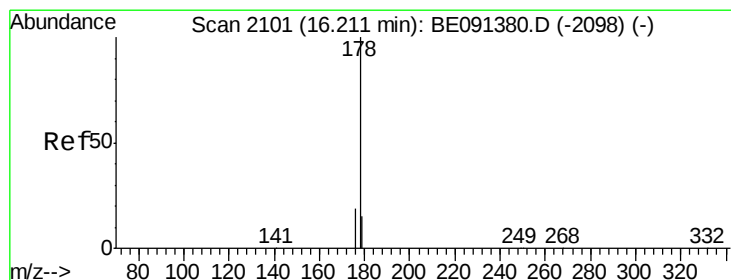
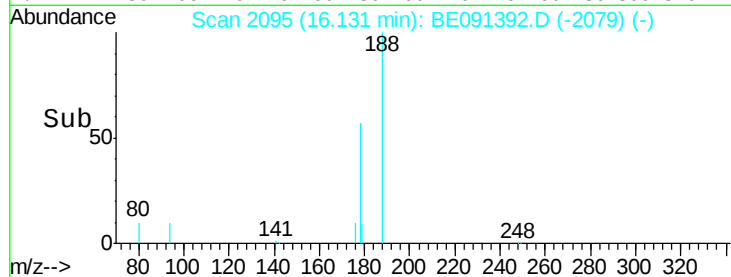
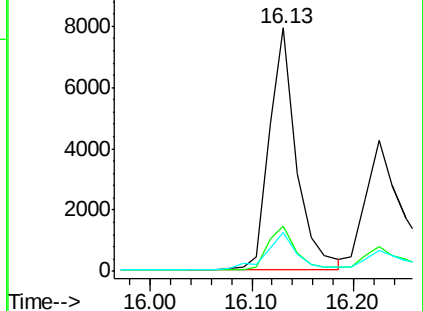
179 16.8 12.7 19.1



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#16

Anthracene

Concen: 0.12 ng

RT: 16.22 min Scan# 2102

Delta R.T. 0.01 min

Lab File: BE091392.D

Acq: 4 Feb 2016 12:53

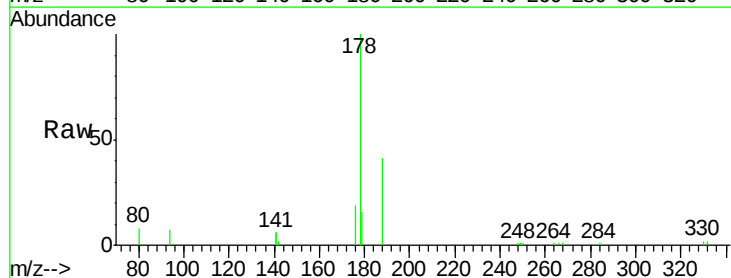
Tgt Ion:178 Resp: 10508

Ion Ratio Lower Upper

178 100

176 18.6 14.8 22.2

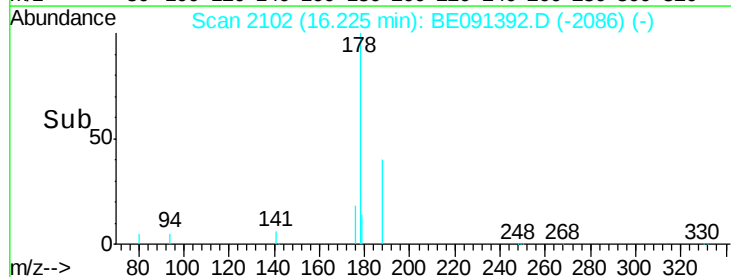
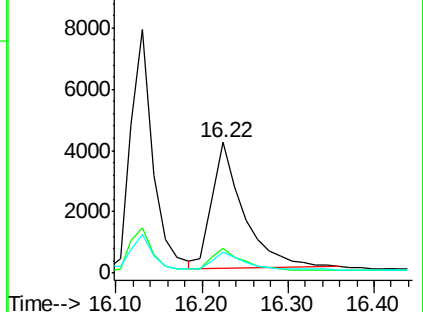
179 15.3 12.1 18.1

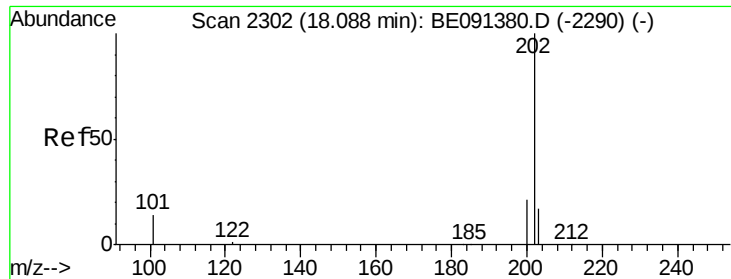


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

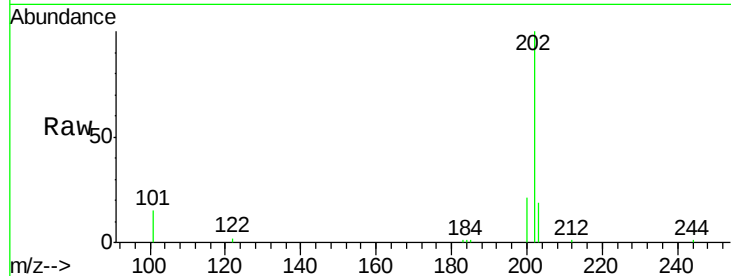




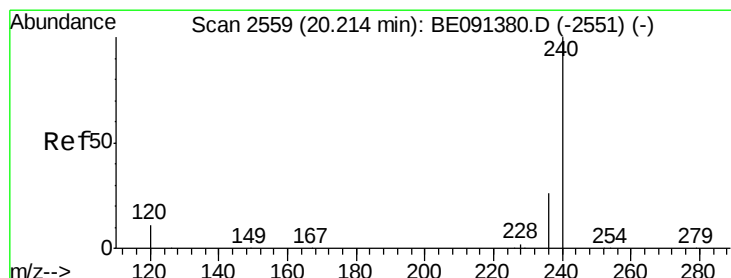
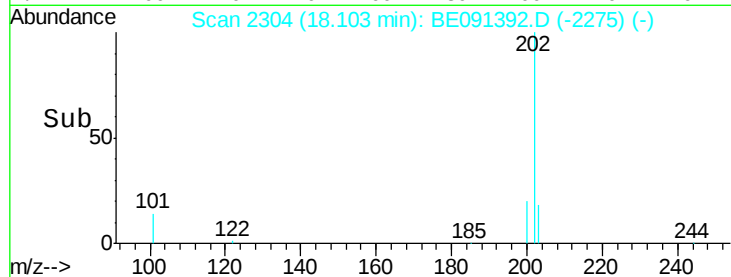
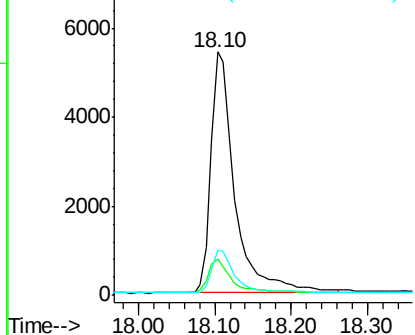
#17
Fluoranthene
 Concen: 0.22 ng
 RT: 18.10 min Scan# 2304
 Delta R.T. 0.02 min
 Lab File: BE091392.D
 Acq: 4 Feb 2016 12:53

Instrument :
 BNA_E
 ClientSampleId :
 LOQ-WATER2016-02

Tgt Ion:202 Resp: 11803
 Ion Ratio Lower Upper
 202 100
 101 13.1 10.5 15.7
 203 17.4 13.9 20.9

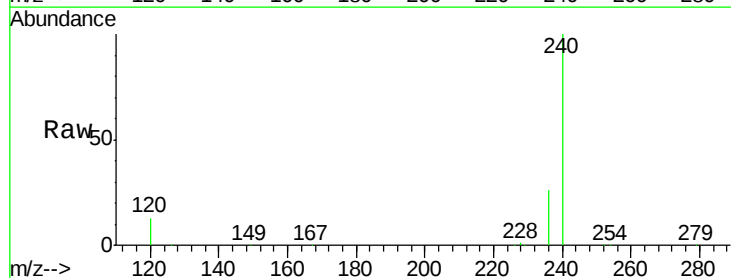


Abundance Ion 202.00 (201.70 to 202.70): E
 Ion 101.00 (100.70 to 101.70): E
 Ion 203.00 (202.70 to 203.70): E

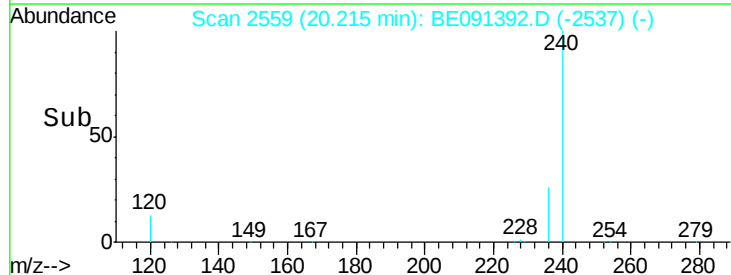
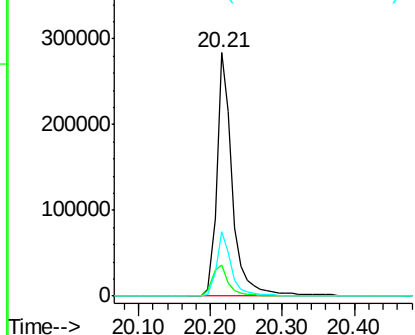


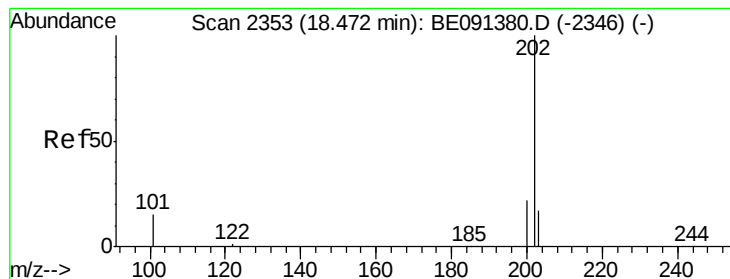
#18
Chrysene-d12
 Concen: 5.00 ng
 RT: 20.21 min Scan# 2559
 Delta R.T. 0.00 min
 Lab File: BE091392.D
 Acq: 4 Feb 2016 12:53

Tgt Ion:240 Resp: 423626
 Ion Ratio Lower Upper
 240 100
 120 12.9 8.9 13.3
 236 26.5 21.0 31.4



Abundance Ion 240.00 (239.70 to 240.70): E
 Ion 120.00 (119.70 to 120.70): E
 Ion 236.00 (235.70 to 236.70): E





#19

Pyrene

Concen: 0.13 ng

RT: 18.49 min Scan# 2355

Delta R.T. 0.02 min

Lab File: BE091392.D

Acq: 4 Feb 2016 12:53

Instrument :

BNA_E

ClientSampleId :

LOQ-WATER2016-02

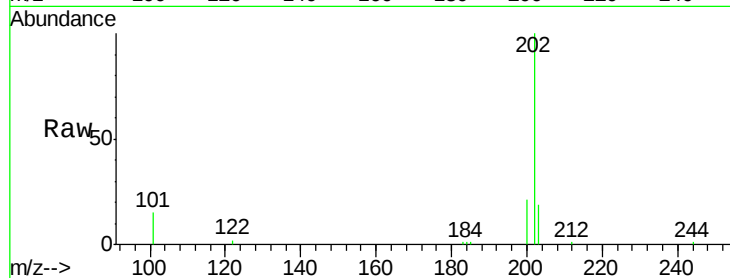
Tgt Ion:202 Resp: 12057

Ion Ratio Lower Upper

202 100

200 21.2 16.8 25.2

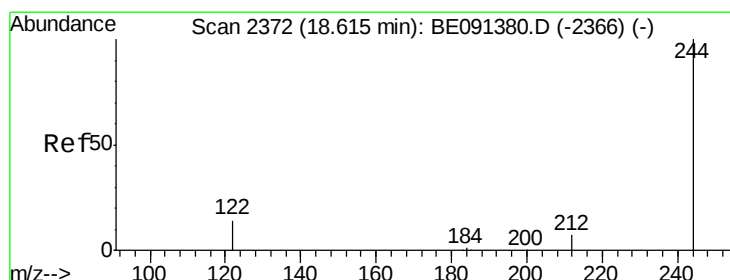
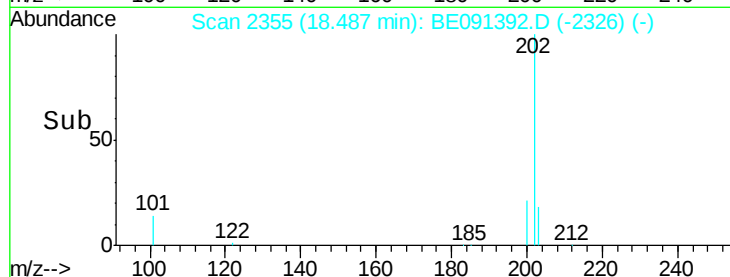
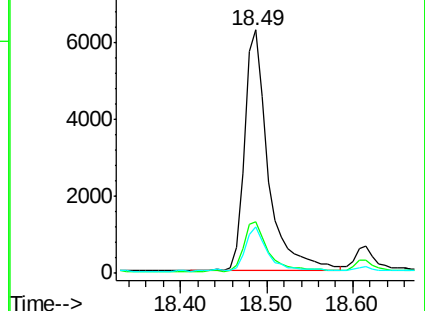
203 18.0 14.0 21.0



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E



#20

Terphenyl-d14

Concen: 4.16 ng

RT: 18.62 min Scan# 2372

Delta R.T. 0.00 min

Lab File: BE091392.D

Acq: 4 Feb 2016 12:53

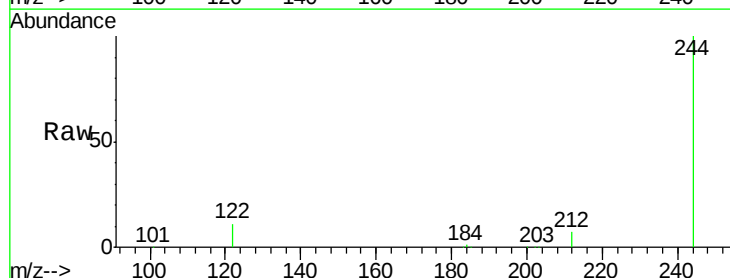
Tgt Ion:244 Resp: 260513

Ion Ratio Lower Upper

244 100

212 7.4 6.1 9.1

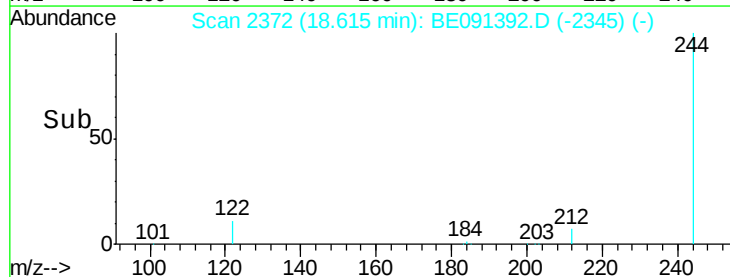
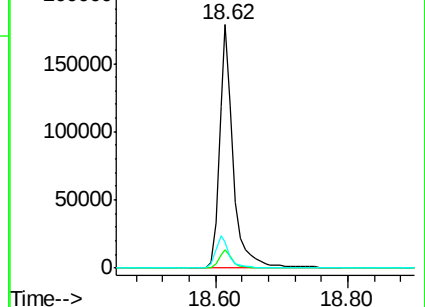
122 10.7 11.0 16.6#

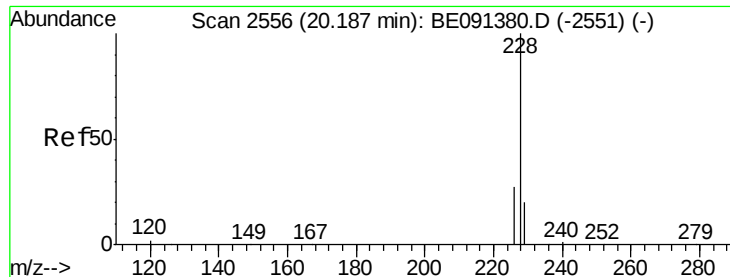


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#21

Benzo(a)anthracene

Concen: 0.27 ng

RT: 20.19 min Scan# 2556

Delta R.T. 0.00 min

Lab File: BE091392.D

Acq: 4 Feb 2016 12:53

Instrument :

BNA_E

ClientSampleId :

LOQ-WATER2016-02

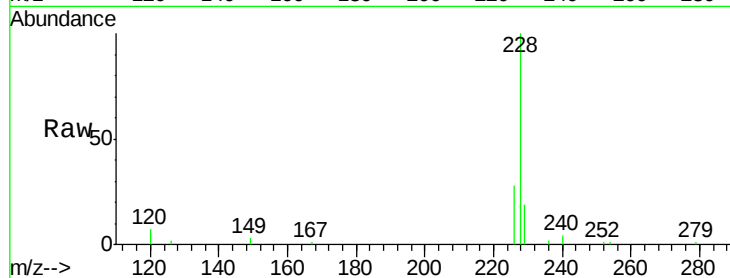
Tgt Ion:228 Resp: 9615

Ion Ratio Lower Upper

228 100

226 28.3 21.7 32.5

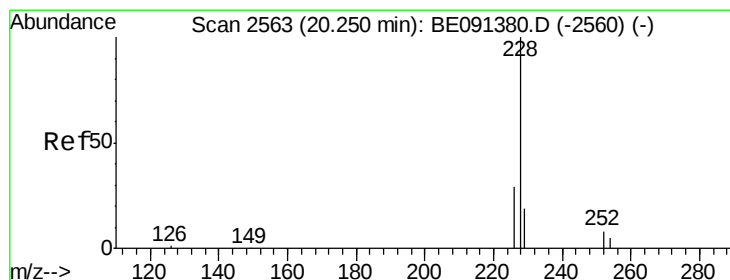
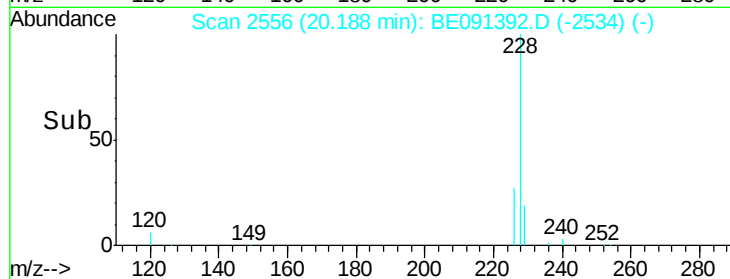
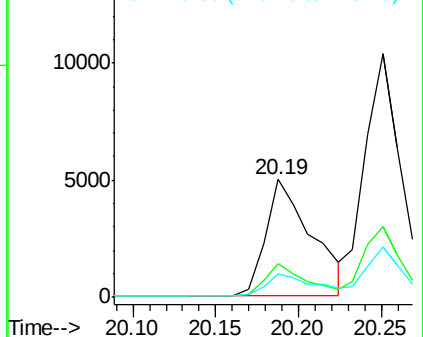
229 19.4 16.1 24.1



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#22

Chrysene

Concen: 0.09 ng

RT: 20.25 min Scan# 2563

Delta R.T. 0.00 min

Lab File: BE091392.D

Acq: 4 Feb 2016 12:53

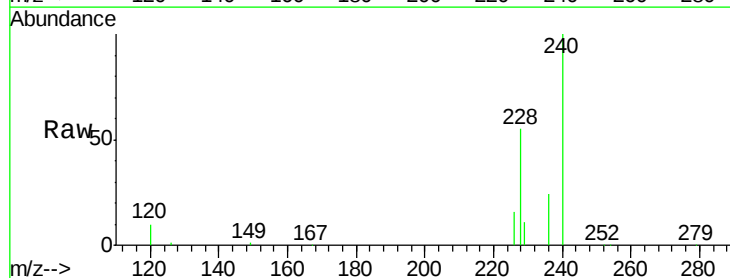
Tgt Ion:228 Resp: 17099

Ion Ratio Lower Upper

228 100

226 29.2 23.4 35.0

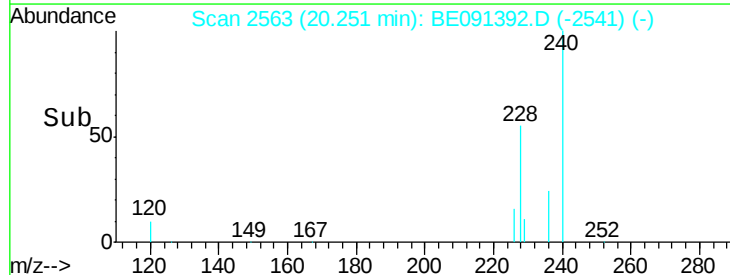
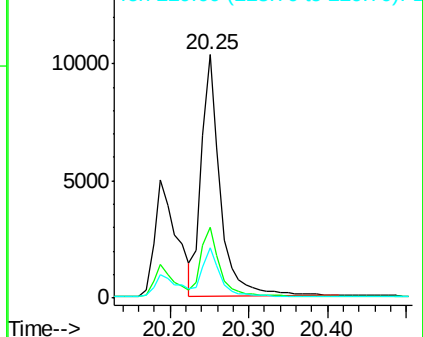
229 20.4 15.7 23.5

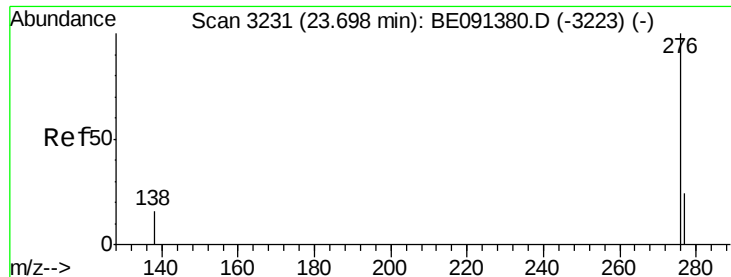


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#23

Indeno(1,2,3-cd)pyrene

Concen: 0.26 ng

RT: 23.72 min Scan# 3236

Delta R.T. 0.03 min

Lab File: BE091392.D

Acq: 4 Feb 2016 12:53

Instrument :

BNA_E

ClientSampleId :

LOQ-WATER2016-02

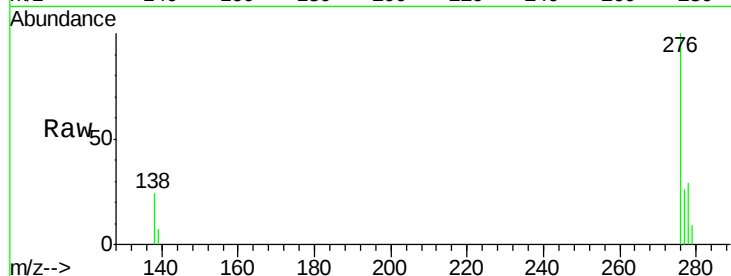
Tgt Ion:276 Resp: 9750

Ion Ratio Lower Upper

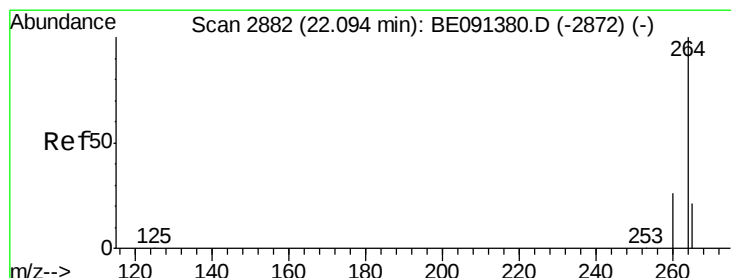
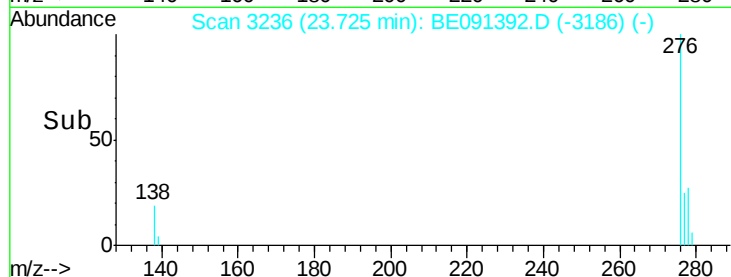
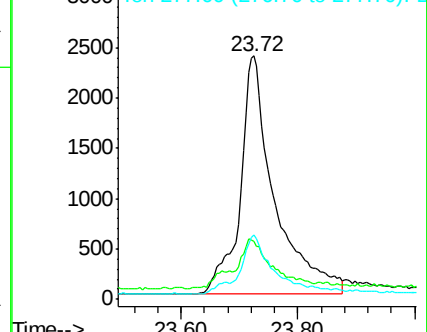
276 100

138 15.8 16.6 25.0#

277 19.5 19.0 28.6



Abundance Ion 276.00 (275.70 to 276.70): E
Ion 138.00 (137.70 to 138.70): E
Ion 277.00 (276.70 to 277.70): E



#24

Perylene-d12

Concen: 5.00 ng

RT: 22.10 min Scan# 2883

Delta R.T. 0.00 min

Lab File: BE091392.D

Acq: 4 Feb 2016 12:53

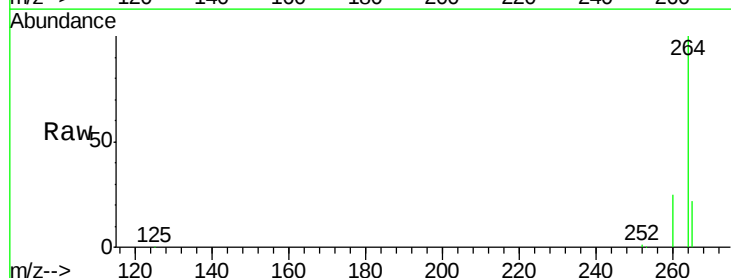
Tgt Ion:264 Resp: 385544

Ion Ratio Lower Upper

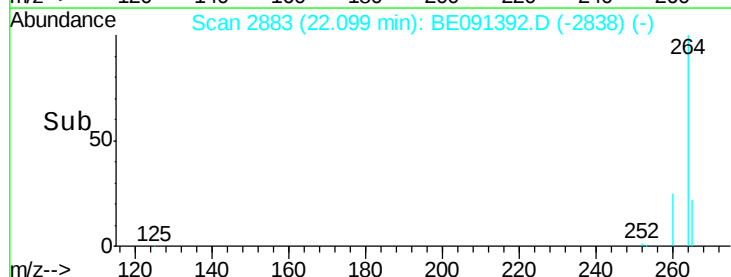
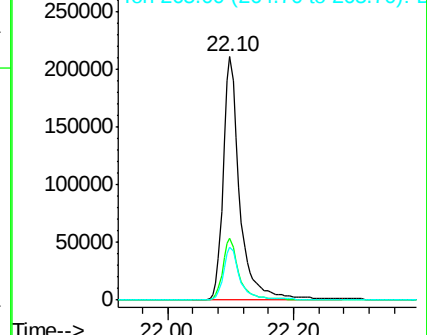
264 100

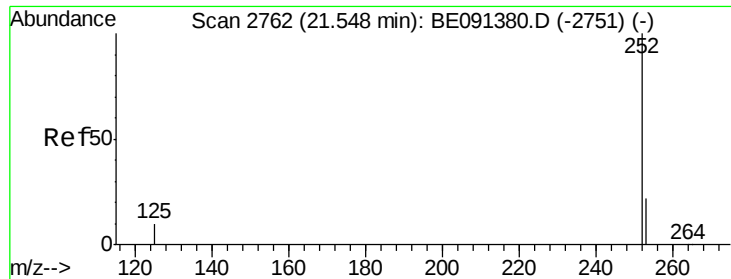
260 25.4 20.7 31.1

265 21.7 17.2 25.8



Abundance Ion 264.00 (263.70 to 264.70): E
Ion 260.00 (259.70 to 260.70): E
Ion 265.00 (264.70 to 265.70): E

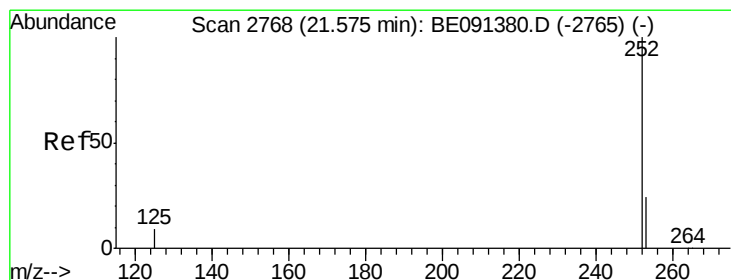
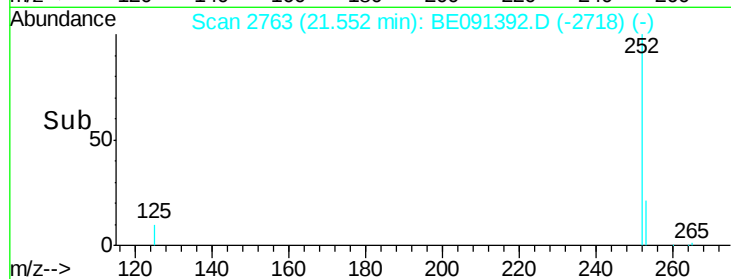
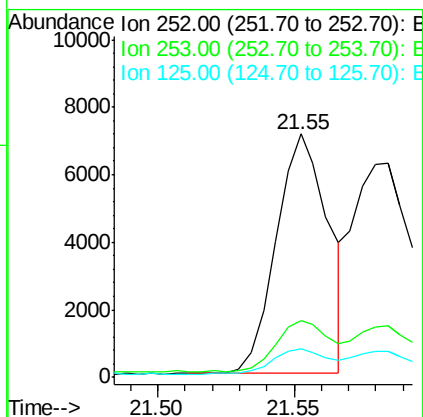
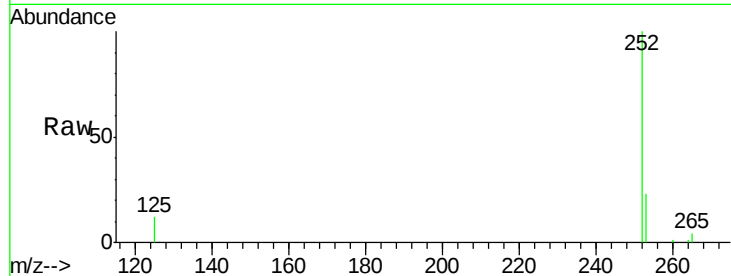




#25
Benzo(b)fluoranthene
Concen: 0.24 ng
RT: 21.55 min Scan# 2763
Delta R.T. 0.01 min
Lab File: BE091392.D
Acq: 4 Feb 2016 12:53

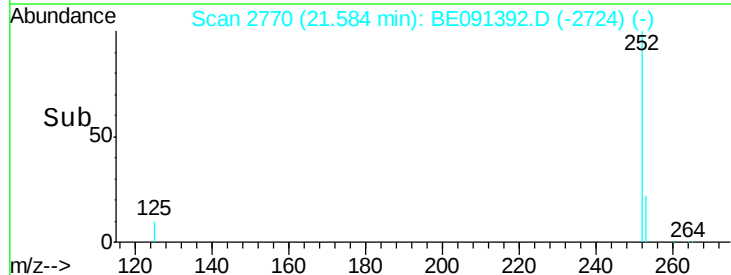
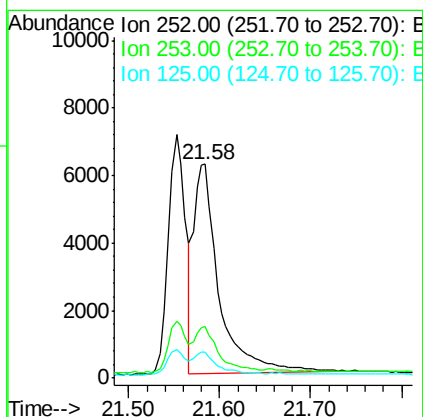
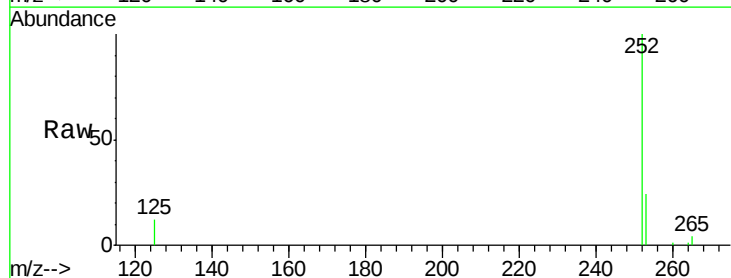
Instrument :
BNA_E
ClientSampleId :
LOQ-WATER2016-02

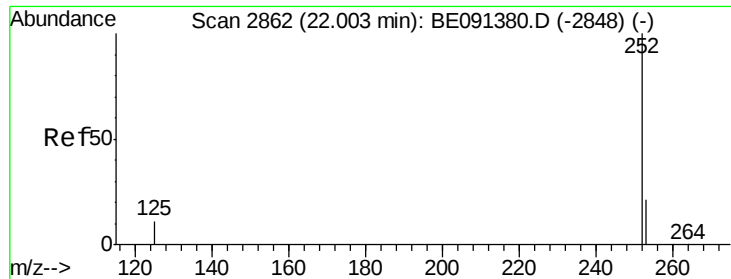
Tgt Ion:252 Resp: 9423
Ion Ratio Lower Upper
252 100
253 23.2 18.2 27.2
125 11.7 8.3 12.5



#26
Benzo(k)fluoranthene
Concen: 0.14 ng
RT: 21.58 min Scan# 2770
Delta R.T. 0.01 min
Lab File: BE091392.D
Acq: 4 Feb 2016 12:53

Tgt Ion:252 Resp: 11976
Ion Ratio Lower Upper
252 100
253 23.8 18.1 27.1
125 11.9 8.2 12.4





#27

Benzo(a)pyrene

Concen: 0.25 ng

RT: 22.01 min Scan# 2863

Delta R.T. 0.00 min

Lab File: BE091392.D

Acq: 4 Feb 2016 12:53

Instrument :

BNA_E

ClientSampleId :

LOQ-WATER2016-02

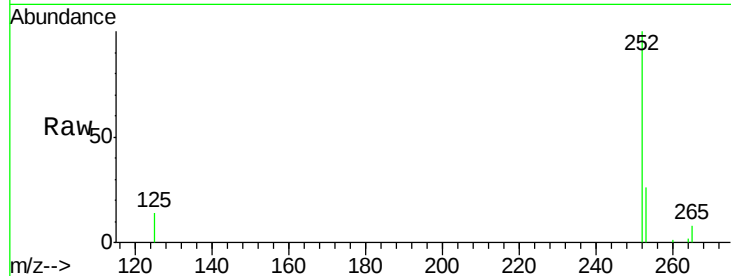
Tgt Ion:252 Resp: 7636

Ion Ratio Lower Upper

252 100

253 26.2 17.5 26.3

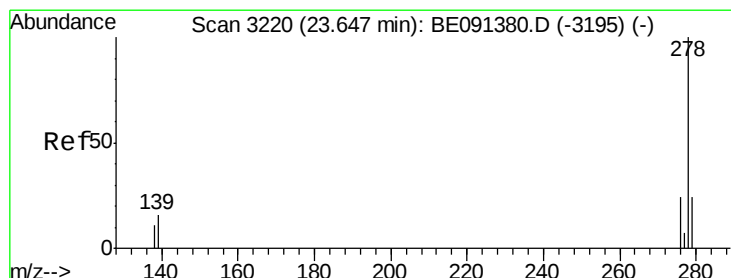
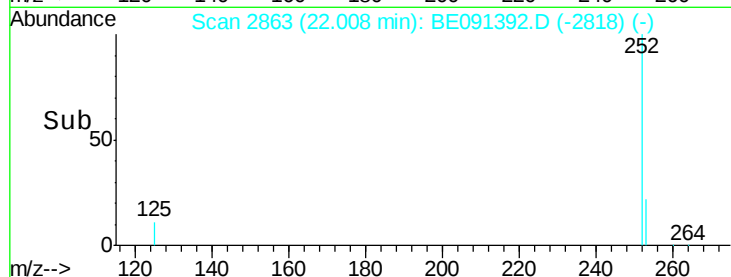
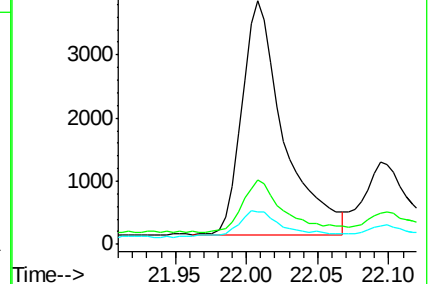
125 13.6 9.4 14.0



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#28

Dibenzo(a,h)anthracene

Concen: 0.33 ng

RT: 23.68 min Scan# 3226

Delta R.T. 0.03 min

Lab File: BE091392.D

Acq: 4 Feb 2016 12:53

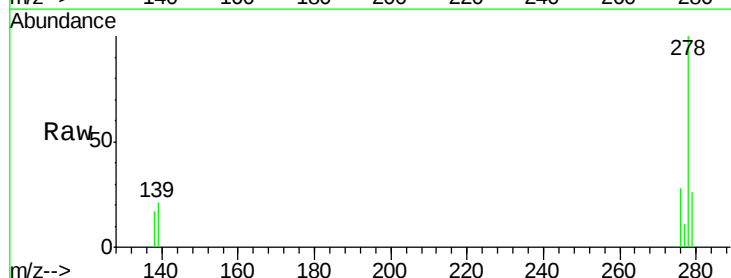
Tgt Ion:278 Resp: 6980

Ion Ratio Lower Upper

278 100

139 21.0 13.0 19.4#

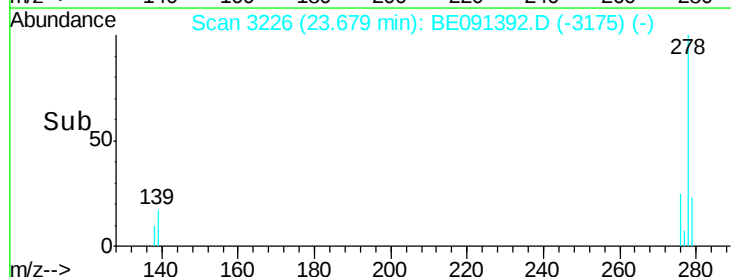
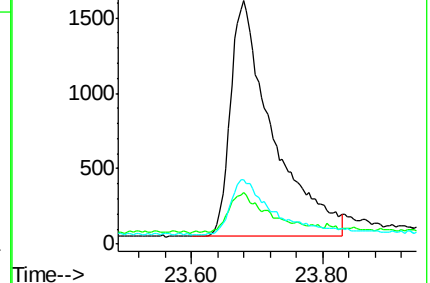
279 26.4 19.2 28.8

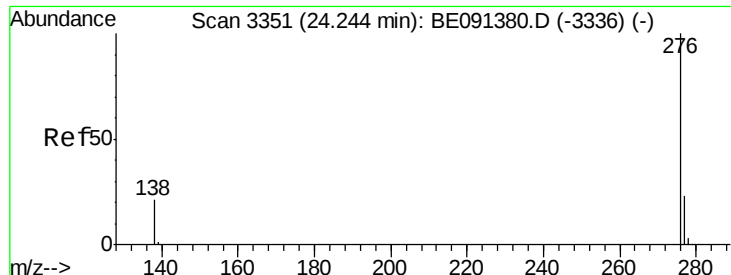


Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E





#29

Benzo(g,h,i)perylene

Concen: 0.25 ng

RT: 24.27 min Scan# 3355

Delta R.T. 0.02 min

Lab File: BE091392.D

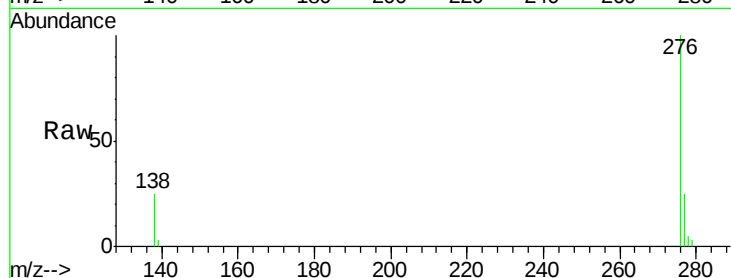
Acq: 4 Feb 2016 12:53

Instrument :

BNA_E

ClientSampleId :

LOQ-WATER2016-02



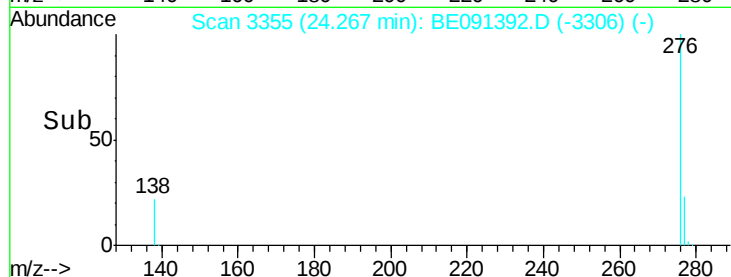
Tgt Ion: 276 Resp: 10192

Ion Ratio Lower Upper

276 100

277 24.5 18.9 28.3

138 25.5 17.0 25.6



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

