

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE020416\
 Data File : BE091391.D
 Acq On : 4 Feb 2016 12:14
 Operator : UM/IZ
 Sample : G4825-05
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 LOD-WATER2016-01

Quant Time: Feb 05 06:33:11 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	6.88	152	48693	5.00	ng	0.00
4) Naphthalene-d8	9.55	136	226584	5.00	ng	0.00
8) Acenaphthene-d10	13.36	164	144435	5.00	ng	0.00
14) Phenanthrene-d10	16.09	188	377466	5.00	ng	0.00
18) Chrysene-d12	20.22	240	412334	5.00	ng	0.00
24) Perylene-d12	22.10	264	371803	5.00	ng	0.00

System Monitoring Compounds						
2) 2-Fluorophenol	4.91	112	76422	6.65	ng	-0.04
3) Phenol-d6	6.54	99	104234	6.41	ng	-0.03
5) Nitrobenzene-d5	8.18	82	41825	2.91	ng	0.00
9) 2,4,6-Tribromophenol	14.90	330	25364	3.77	ng	0.00
10) 2-Fluorobiphenyl	12.01	172	146185	3.89	ng	0.00
20) Terphenyl-d14	18.61	244	251255	4.12	ng	0.00

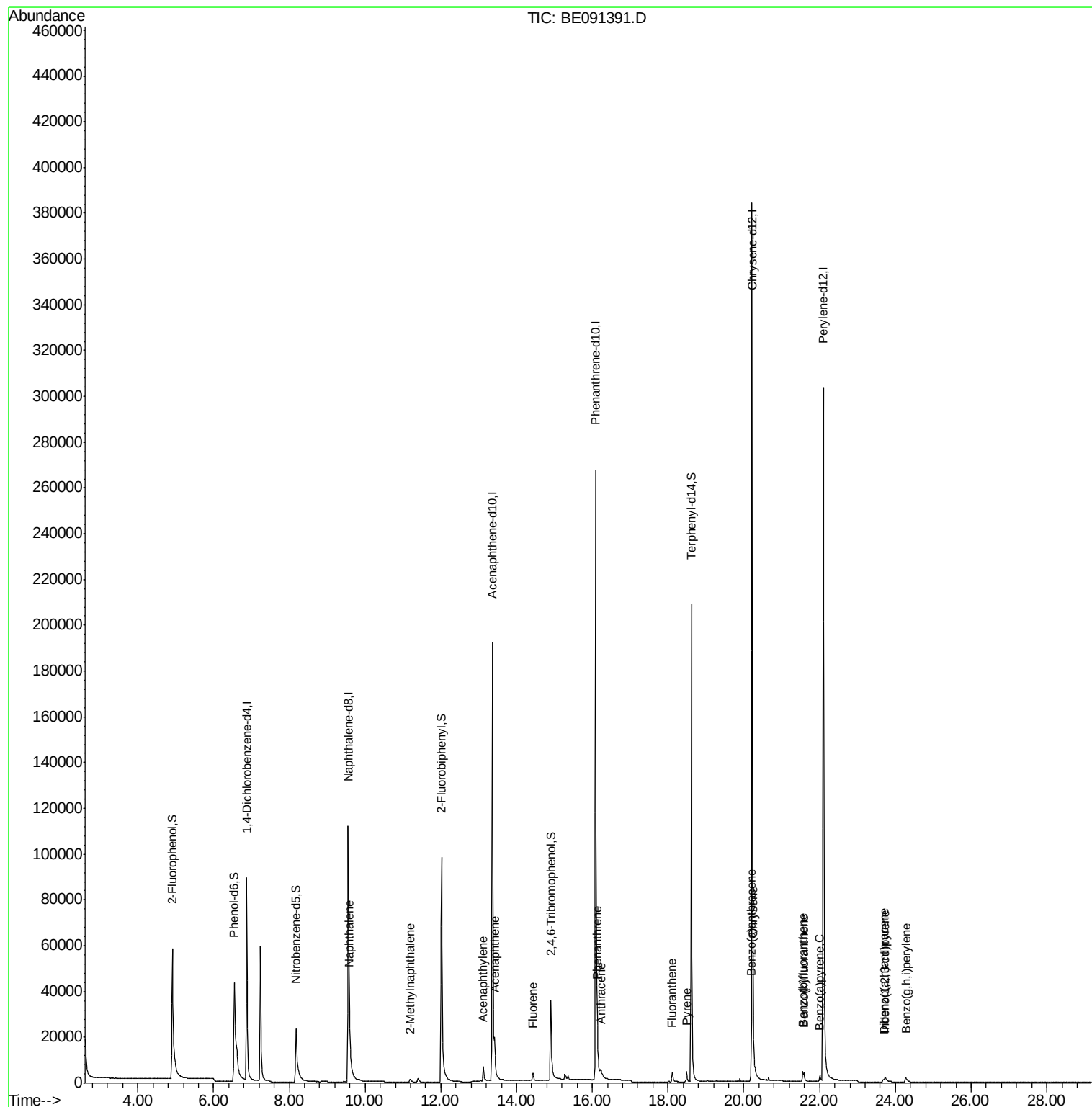
Target Compounds						Qvalue
6) Naphthalene	9.60	128	3709	0.07	ng	# 91
7) 2-Methylnaphthalene	11.18	142	2151	0.19	ng	95
11) Acenaphthylene	13.12	152	12298	0.23	ng	99
12) Acenaphthene	13.42	154	2765	0.07	ng	96
13) Fluorene	14.43	166	3210	0.06	ng	98
15) Phenanthrene	16.13	178	7450	0.08	ng	96
16) Anthracene	16.22	178	5050	0.06	ng	97
17) Fluoranthene	18.11	202	6158	0.18	ng	99
19) Pyrene	18.49	202	6062	0.07	ng	99
21) Benzo(a)anthracene	20.19	228	5591	0.23	ng	98
22) Chrysene	20.25	228	8638	0.01	ng	98
23) Indeno(1,2,3-cd)pyrene	23.73	276	4807	0.21	ng	97
25) Benzo(b)fluoranthene	21.56	252	4933	0.20	ng	# 93
26) Benzo(k)fluoranthene	21.58	252	5475	0.08	ng	# 91
27) Benzo(a)pyrene	22.01	252	3814	0.21	ng	# 84
28) Dibenzo(a,h)anthracene	23.69	278	3523	0.29	ng	# 85
29) Benzo(g,h,i)perylene	24.28	276	4860	0.19	ng	# 85

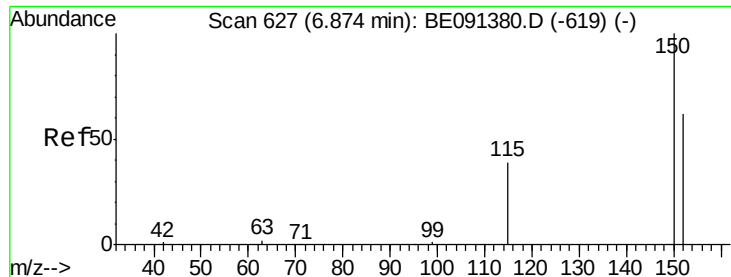
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE020416\
Data File : BE091391.D
Acq On : 4 Feb 2016 12:14
Operator : UM/IZ
Sample : G4825-05
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_E
ClientSampleId :
LOD-WATER2016-01

Quant Time: Feb 05 06:33:11 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



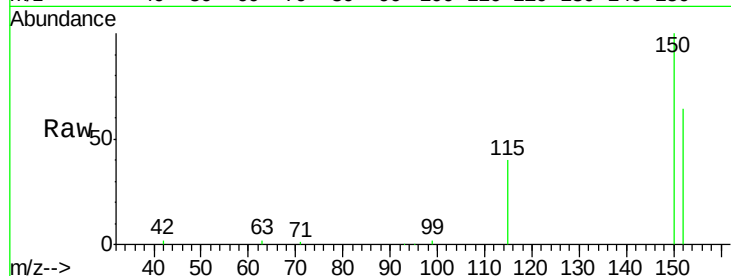


#1

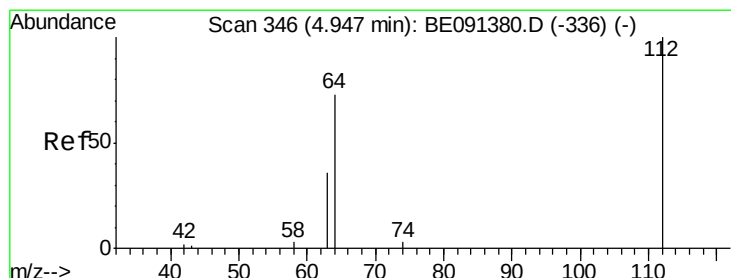
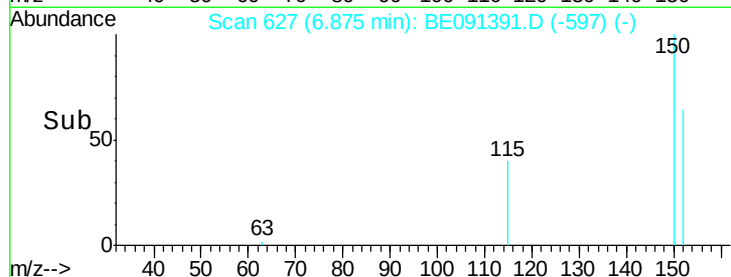
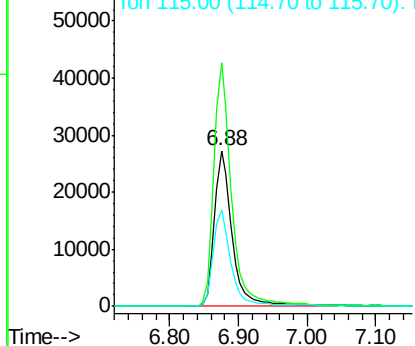
1,4-Dichlorobenzene-d4
Concen: 5.00 ng
RT: 6.88 min Scan# 627
Delta R.T. 0.00 min
Lab File: BE091391.D
Acq: 4 Feb 2016 12:14

Instrument :
BNA_E
ClientSampleId :
LOD-WATER2016-01

Tgt Ion:152 Resp: 48693
Ion Ratio Lower Upper
152 100
150 156.7 128.9 193.3
115 62.5 50.9 76.3



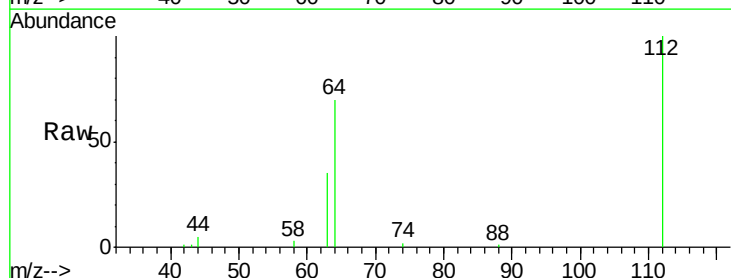
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



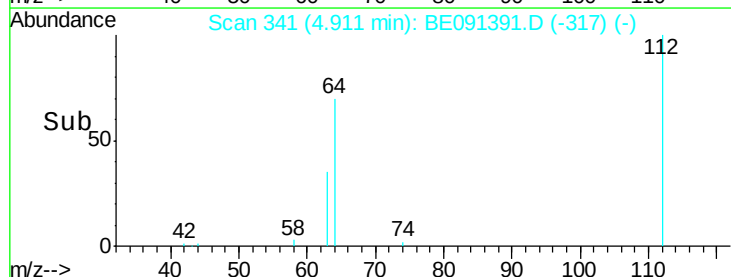
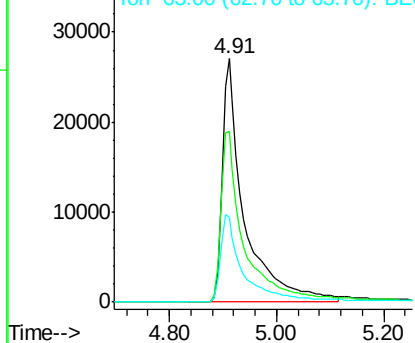
#2

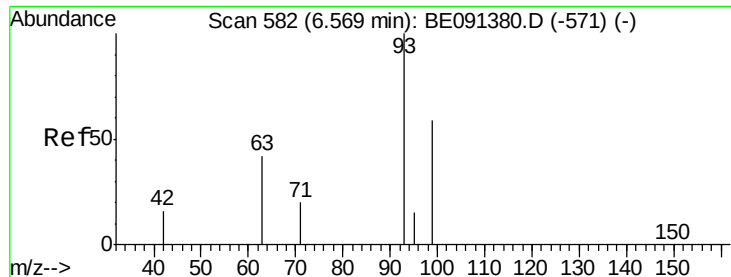
2-Fluorophenol
Concen: 6.65 ng
RT: 4.91 min Scan# 341
Delta R.T. -0.04 min
Lab File: BE091391.D
Acq: 4 Feb 2016 12:14

Tgt Ion:112 Resp: 76422
Ion Ratio Lower Upper
112 100
64 72.7 60.5 90.7
63 36.4 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: 6.41 ng

RT: 6.54 min Scan# 578

Delta R.T. -0.03 min

Lab File: BE091391.D

Acq: 4 Feb 2016 12:14

Instrument :

BNA_E

ClientSampleId :

LOD-WATER2016-01

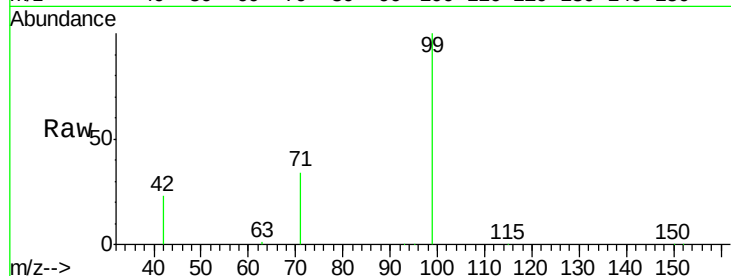
Tgt Ion: 99 Resp: 104234

Ion Ratio Lower Upper

99 100

42 15.5 13.3 19.9

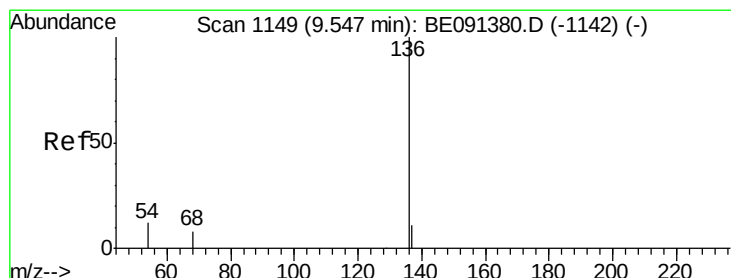
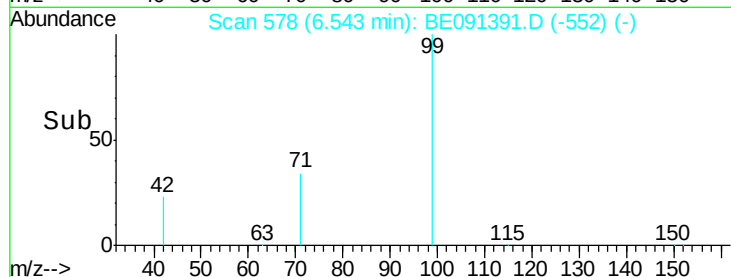
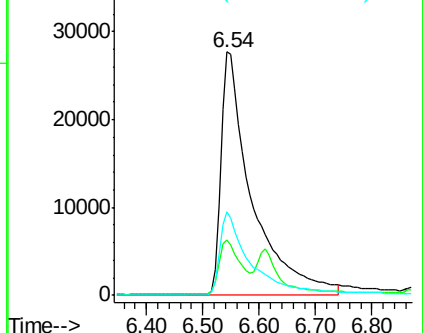
71 33.5 25.6 38.4



Abundance Ion 99.00 (98.70 to 99.70): BE0

Ion 42.00 (41.70 to 42.70): BE0

Ion 71.00 (70.70 to 71.70): BE0



#4

Naphthalene-d8

Concen: 5.00 ng

RT: 9.55 min Scan# 1150

Delta R.T. 0.01 min

Lab File: BE091391.D

Acq: 4 Feb 2016 12:14

Tgt Ion: 136 Resp: 226584

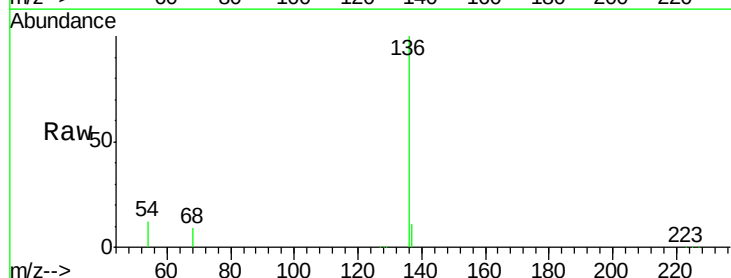
Ion Ratio Lower Upper

136 100

137 10.9 8.7 13.1

54 12.3 9.3 13.9

68 8.8 6.7 10.1

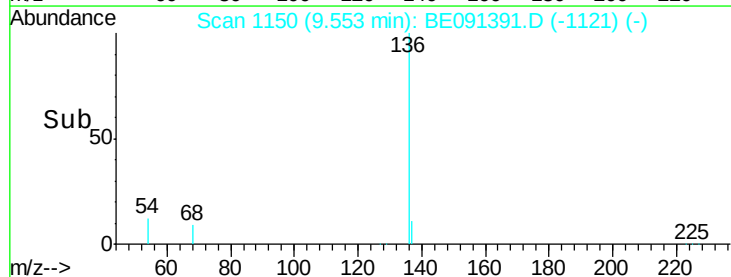
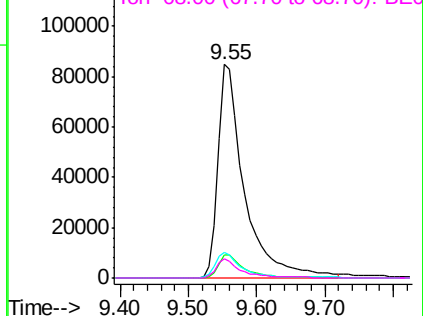


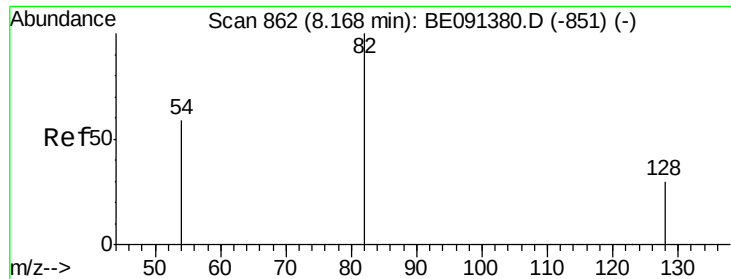
Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BE0

Ion 68.00 (67.70 to 68.70): BE0





#5

Nitrobenzene-d5

Concen: 2.91 ng

RT: 8.18 min Scan# 864

Delta R.T. 0.01 min

Lab File: BE091391.D

Acq: 4 Feb 2016 12:14

Instrument :

BNA_E

ClientSampleId :

LOD-WATER2016-01

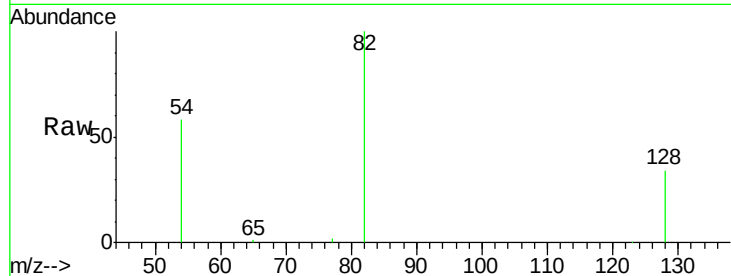
Tgt Ion: 82 Resp: 41825

Ion Ratio Lower Upper

82 100

128 33.8 25.0 37.4

54 58.4 48.1 72.1

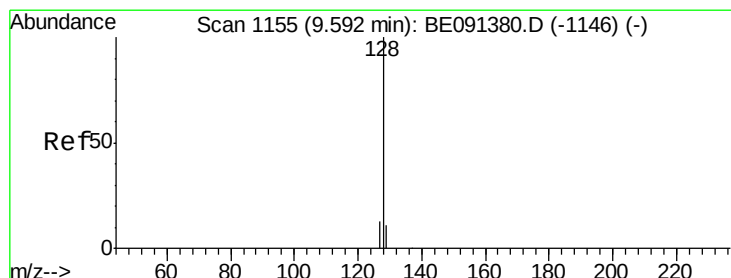
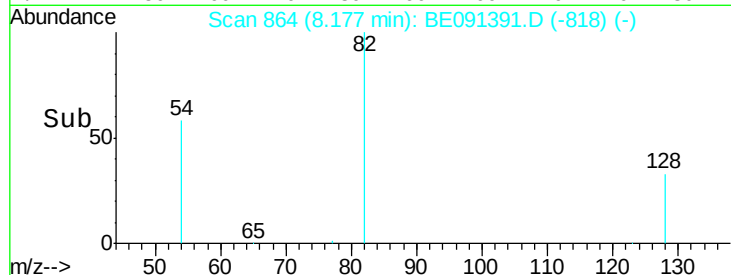


Abundance Ion 82.00 (81.70 to 82.70): BE091391.D (-818) (-)

Ion 128.00 (127.70 to 128.70): BE091391.D (-818) (-)

Ion 54.00 (53.70 to 54.70): BE091391.D (-818) (-)

Time-->



#6

Naphthalene

Concen: 0.07 ng

RT: 9.60 min Scan# 1156

Delta R.T. 0.01 min

Lab File: BE091391.D

Acq: 4 Feb 2016 12:14

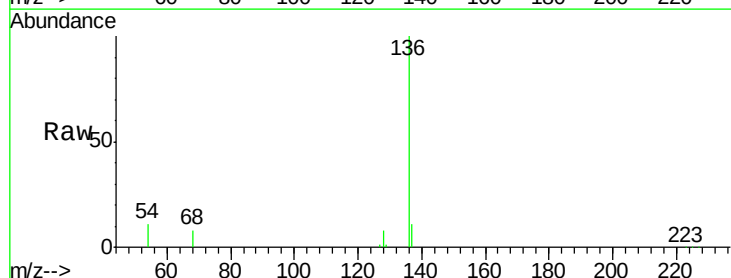
Tgt Ion: 128 Resp: 3709

Ion Ratio Lower Upper

128 100

129 15.3 9.1 13.7#

127 16.2 10.5 15.7#

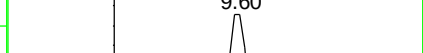
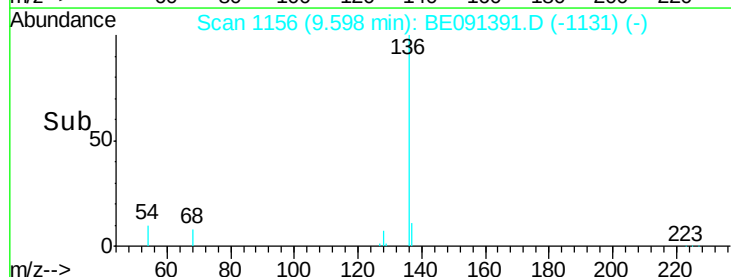


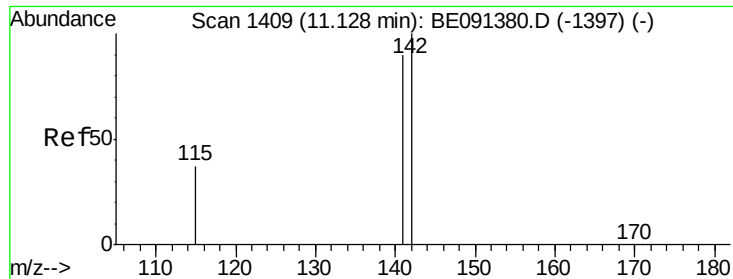
Abundance Ion 128.00 (127.70 to 128.70): BE091391.D (-1131) (-)

Ion 129.00 (128.70 to 129.70): BE091391.D (-1131) (-)

Ion 127.00 (126.70 to 127.70): BE091391.D (-1131) (-)

Time-->





#7

2-Methylnaphthalene

Concen: 0.19 ng

RT: 11.18 min Scan# 1421

Delta R.T. 0.05 min

Lab File: BE091391.D

Acq: 4 Feb 2016 12:14

Instrument :

BNA_E

ClientSampleId :

LOD-WATER2016-01

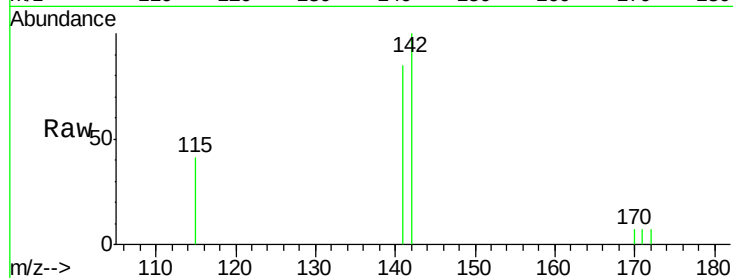
Tgt Ion:142 Resp: 2151

Ion Ratio Lower Upper

142 100

141 85.1 72.3 108.5

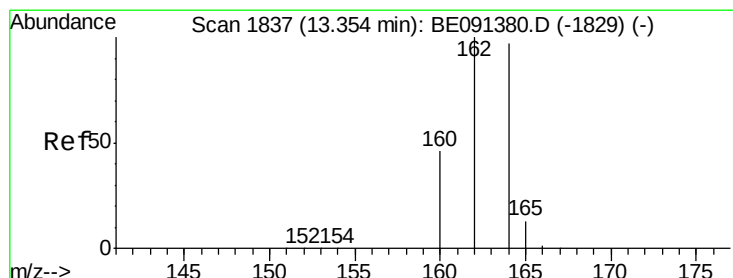
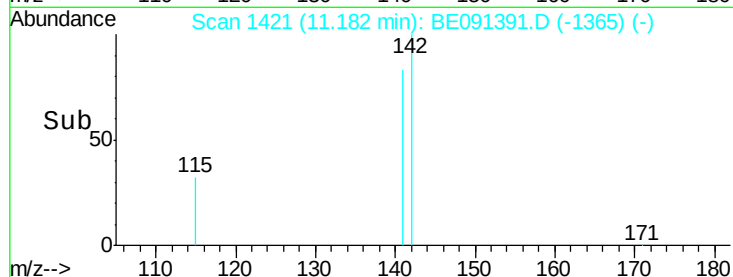
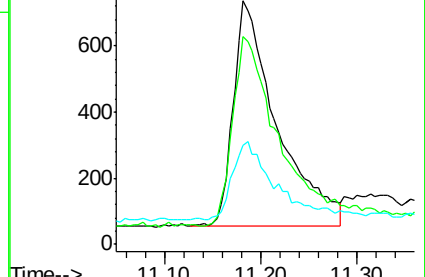
115 40.8 30.5 45.7



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: 13.36 min Scan# 1838

Delta R.T. 0.01 min

Lab File: BE091391.D

Acq: 4 Feb 2016 12:14

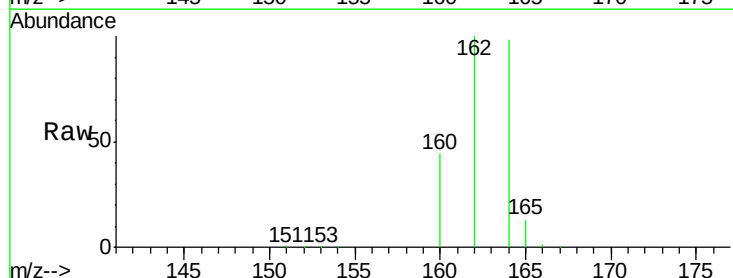
Tgt Ion:164 Resp: 144435

Ion Ratio Lower Upper

164 100

162 102.4 82.2 123.2

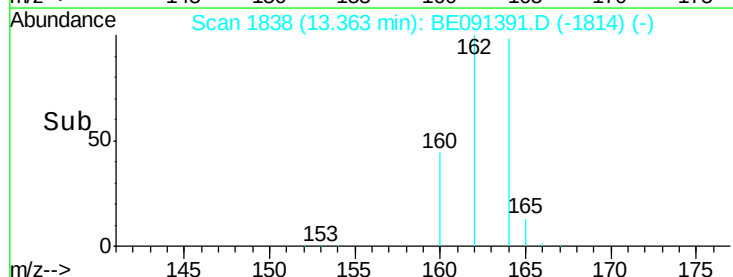
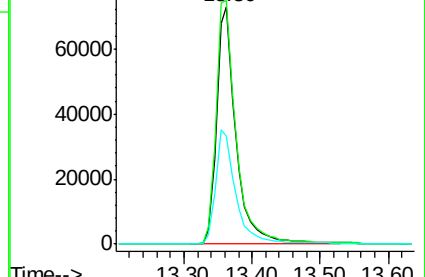
160 45.5 37.8 56.8

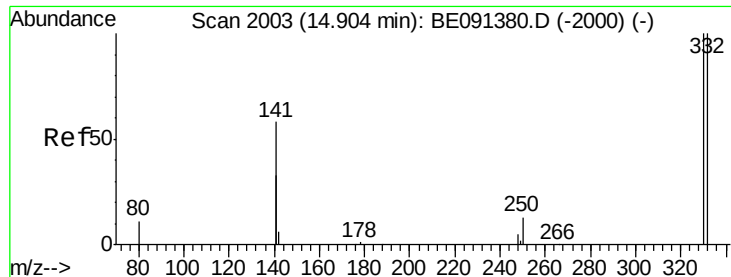


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E





#9

2,4,6-Tribromophenol

Concen: 3.77 ng

RT: 14.90 min Scan# 2003

Delta R.T. -0.00 min

Lab File: BE091391.D

Acq: 4 Feb 2016 12:14

Instrument :

BNA_E

ClientSampleId :

LOD-WATER2016-01

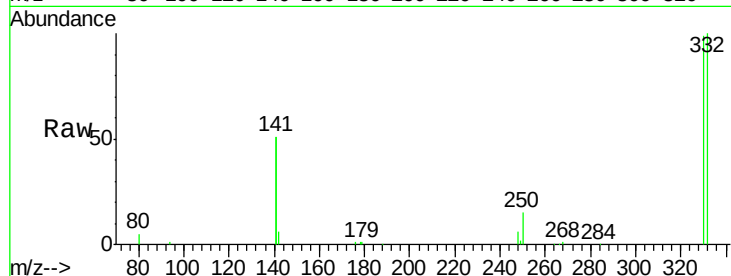
Tgt Ion:330 Resp: 25364

Ion Ratio Lower Upper

330 100

332 98.6 78.8 118.2

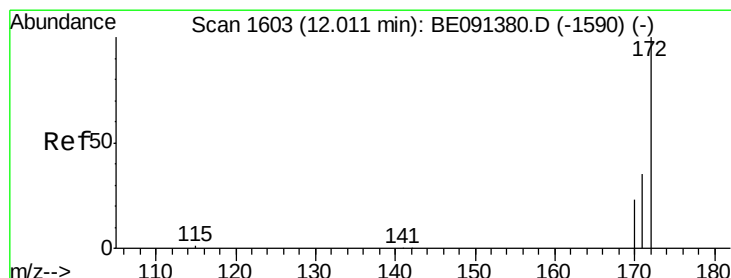
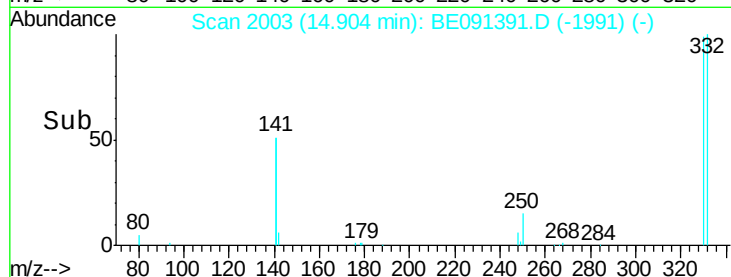
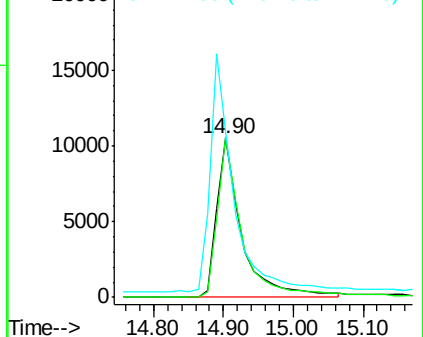
141 145.1 105.1 157.7



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: 3.89 ng

RT: 12.01 min Scan# 1604

Delta R.T. 0.00 min

Lab File: BE091391.D

Acq: 4 Feb 2016 12:14

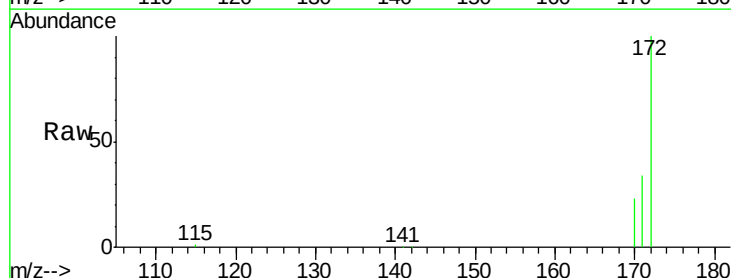
Tgt Ion:172 Resp: 146185

Ion Ratio Lower Upper

172 100

171 34.2 27.8 41.8

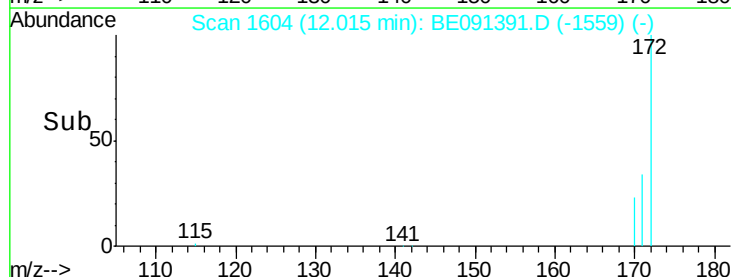
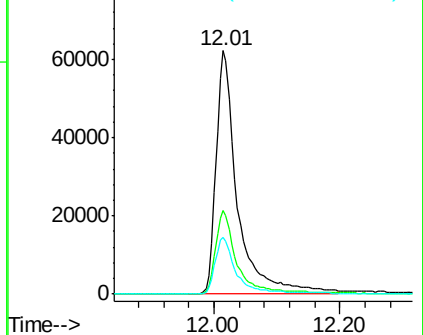
170 23.4 18.6 28.0

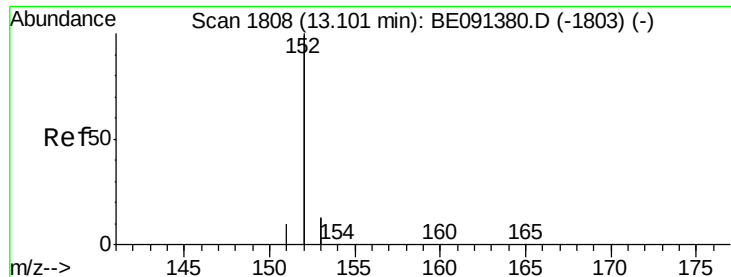


Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E





#11

Acenaphthylene

Concen: 0.23 ng

RT: 13.12 min Scan# 1810

Delta R.T. 0.02 min

Lab File: BE091391.D

Acq: 4 Feb 2016 12:14

Instrument :

BNA_E

ClientSampleId :

LOD-WATER2016-01

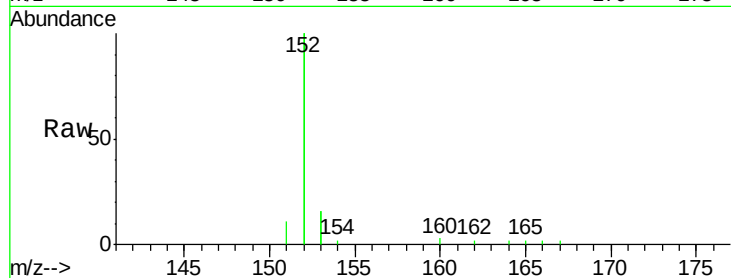
Tgt Ion:152 Resp: 12298

Ion Ratio Lower Upper

152 100

151 4.9 3.8 5.8

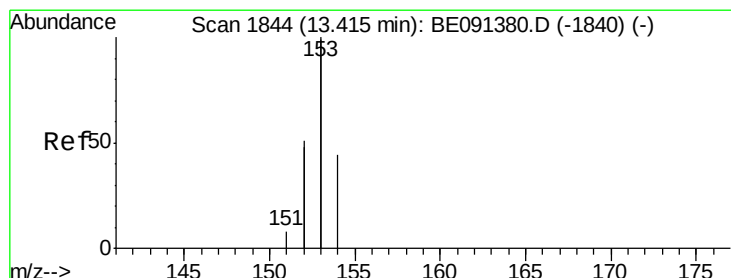
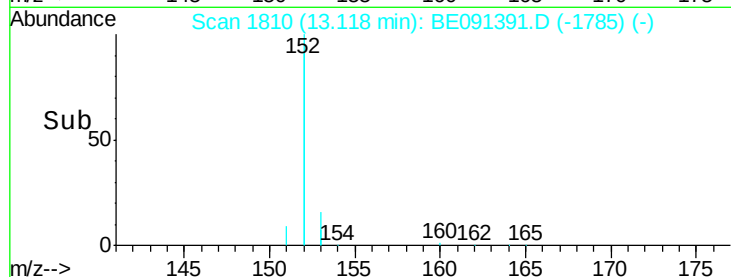
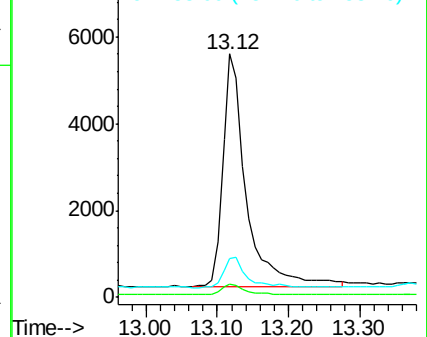
153 13.5 10.2 15.4



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: 0.07 ng

RT: 13.42 min Scan# 1845

Delta R.T. 0.01 min

Lab File: BE091391.D

Acq: 4 Feb 2016 12:14

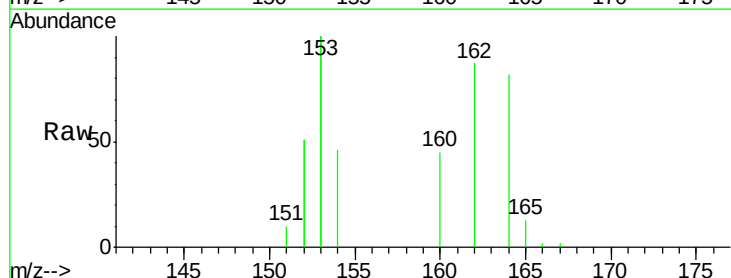
Tgt Ion:154 Resp: 2765

Ion Ratio Lower Upper

154 100

153 469.9 369.8 554.8

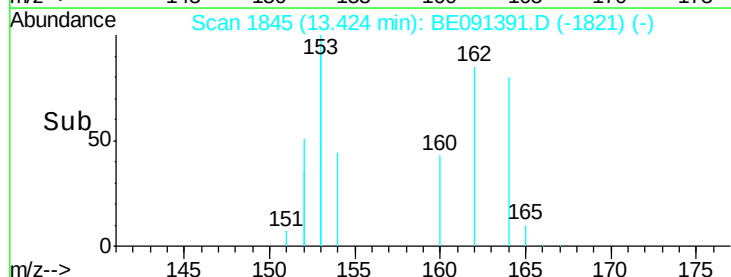
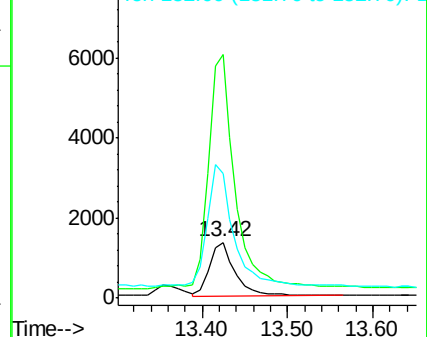
152 233.7 194.4 291.6

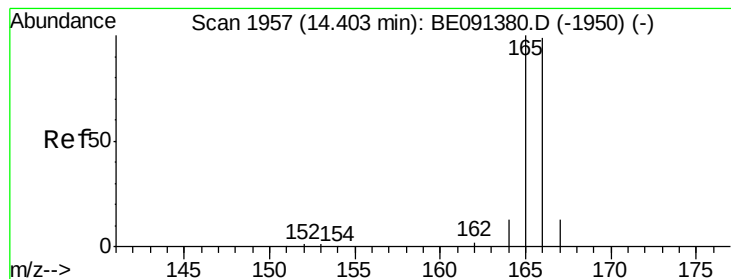


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E





#13

Fluorene

Concen: 0.06 ng

RT: 14.43 min Scan# 1960

Delta R.T. 0.03 min

Lab File: BE091391.D

Acq: 4 Feb 2016 12:14

Instrument :

BNA_E

ClientSampleId :

LOD-WATER2016-01

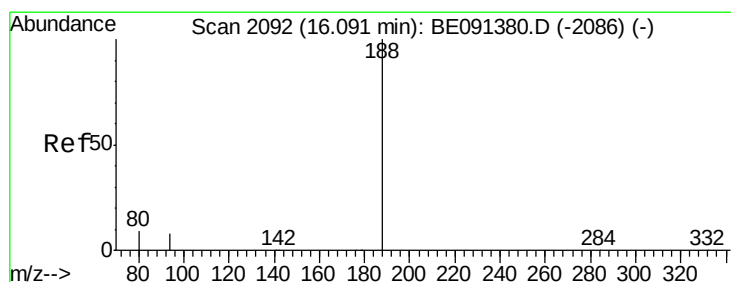
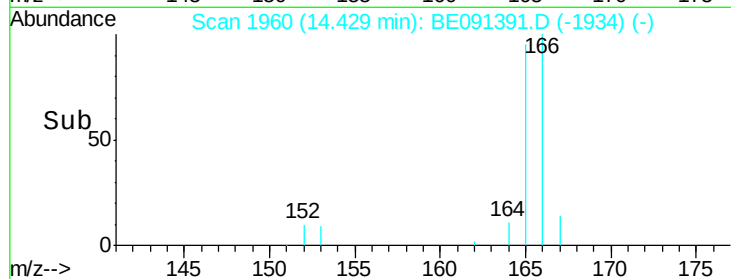
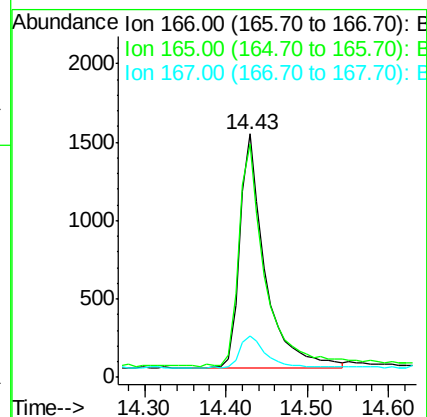
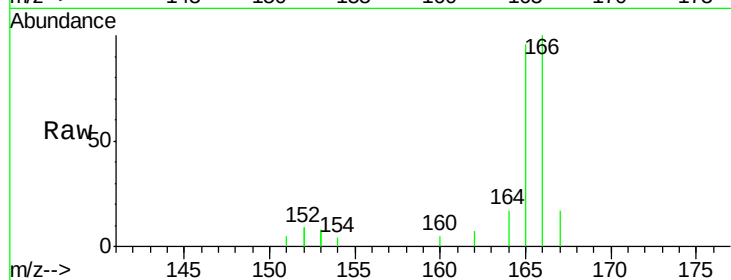
Tgt Ion:166 Resp: 3210

Ion Ratio Lower Upper

166 100

165 100.4 79.3 118.9

167 15.8 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: BE091391.D

Acq: 4 Feb 2016 12:14

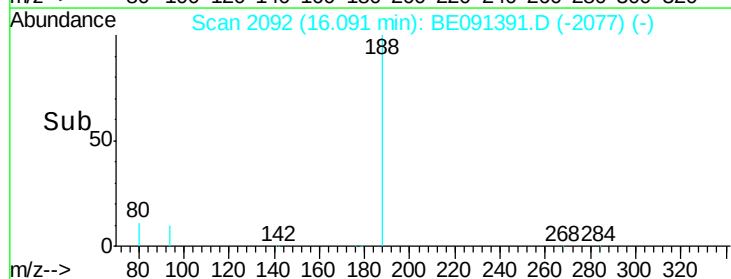
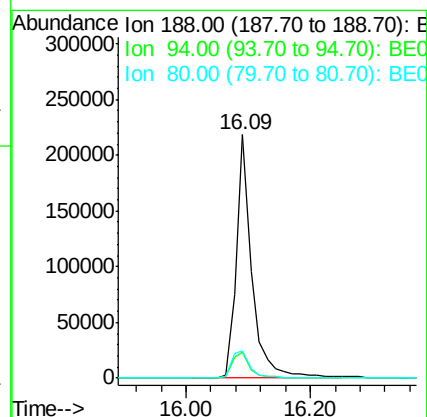
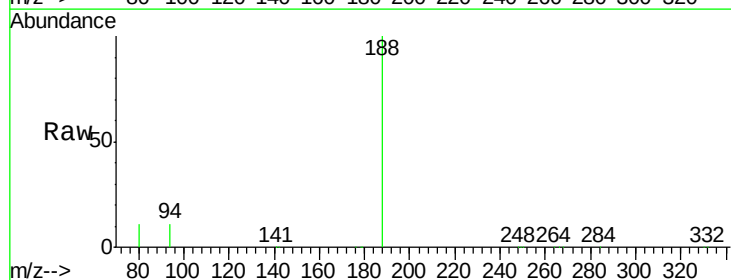
Tgt Ion:188 Resp: 377466

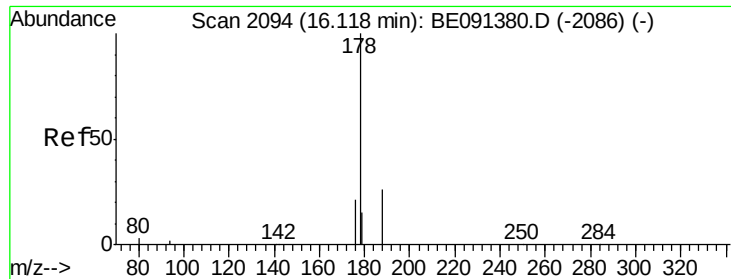
Ion Ratio Lower Upper

188 100

94 10.6 6.6 10.0#

80 11.2 7.0 10.6#





#15

Phenanthrene

Concen: 0.08 ng

RT: 16.13 min Scan# 2095

Delta R.T. 0.01 min

Lab File: BE091391.D

Acq: 4 Feb 2016 12:14

Instrument :

BNA_E

ClientSampleId :

LOD-WATER2016-01

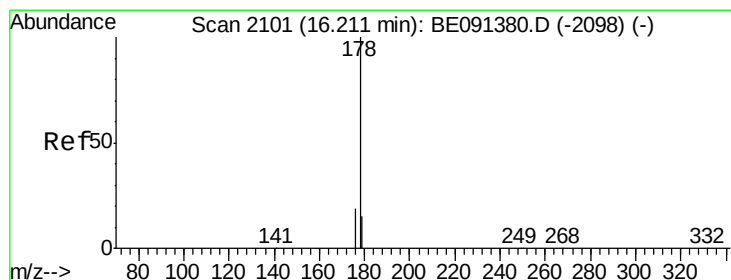
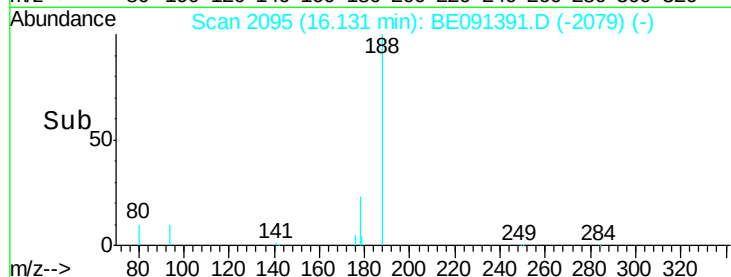
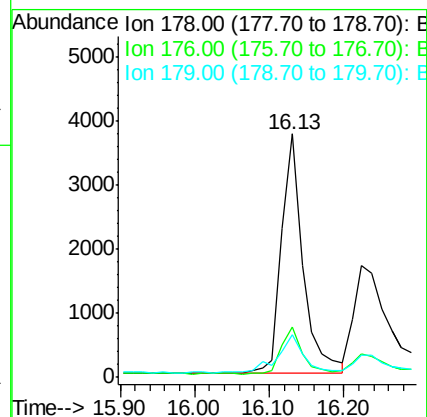
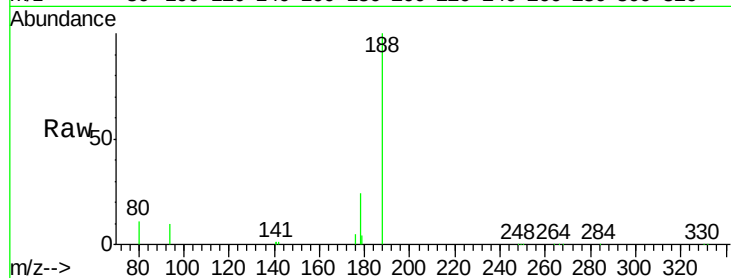
Tgt Ion:178 Resp: 7450

Ion Ratio Lower Upper

178 100

176 19.1 15.4 23.2

179 19.0 12.7 19.1



#16

Anthracene

Concen: 0.06 ng

RT: 16.22 min Scan# 2102

Delta R.T. 0.01 min

Lab File: BE091391.D

Acq: 4 Feb 2016 12:14

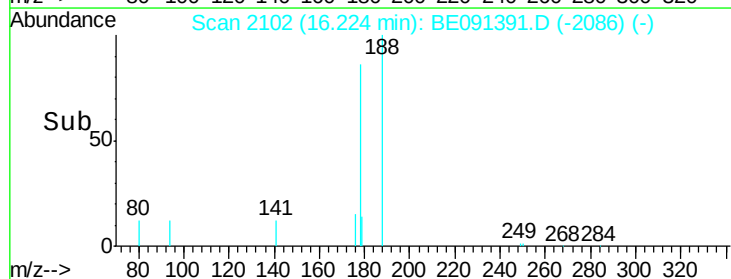
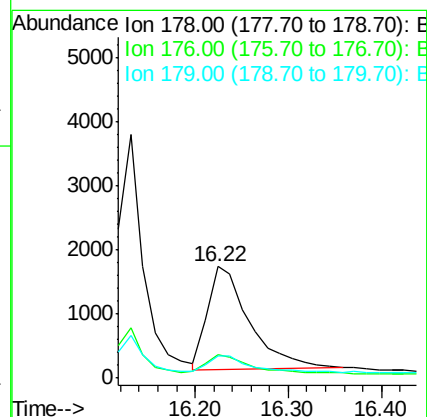
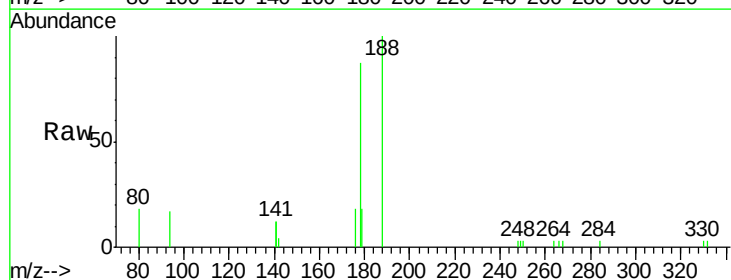
Tgt Ion:178 Resp: 5050

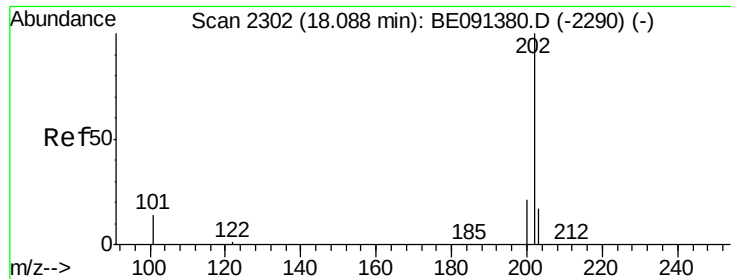
Ion Ratio Lower Upper

178 100

176 17.9 14.8 22.2

179 17.1 12.1 18.1

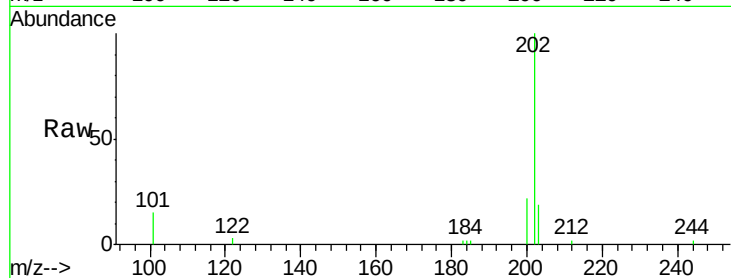




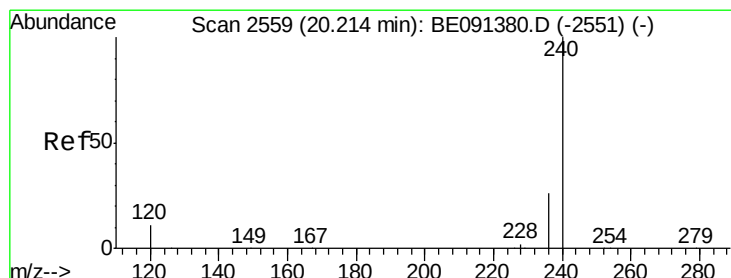
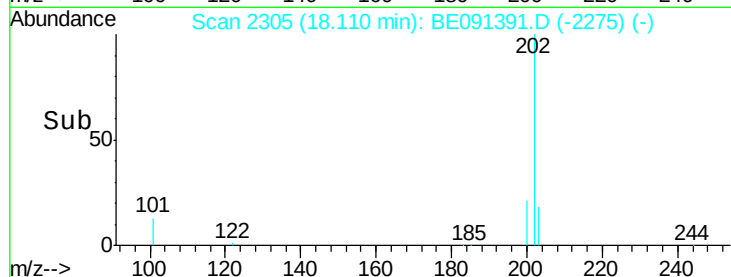
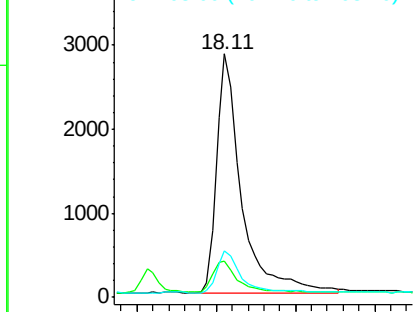
#17
 Fluoranthene
 Concen: 0.18 ng
 RT: 18.11 min Scan# 2305
 Delta R.T. 0.02 min
 Lab File: BE091391.D
 Acq: 4 Feb 2016 12:14

Instrument :
 BNA_E
 ClientSampleId :
 LOD-WATER2016-01

Tgt Ion:202 Resp: 6158
 Ion Ratio Lower Upper
 202 100
 101 12.8 10.5 15.7
 203 17.1 13.9 20.9

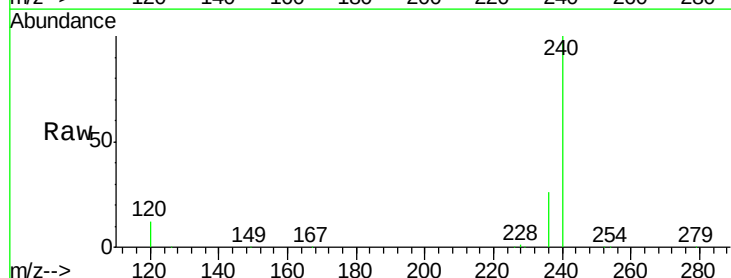


Abundance Ion 202.00 (201.70 to 202.70): E
 Ion 101.00 (100.70 to 101.70): E
 Ion 203.00 (202.70 to 203.70): E

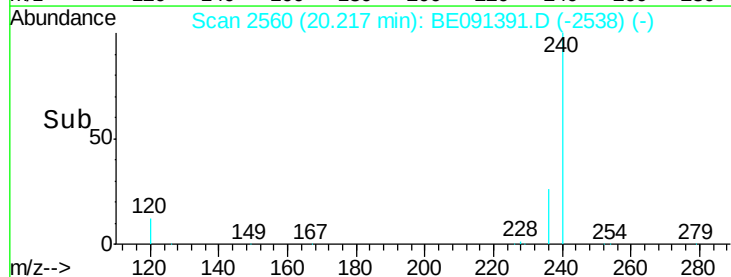
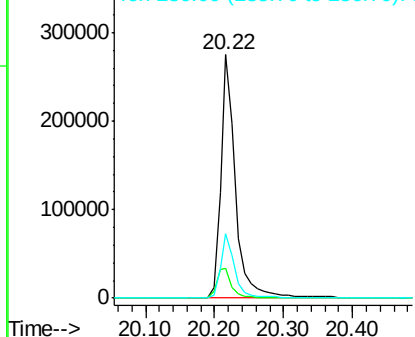


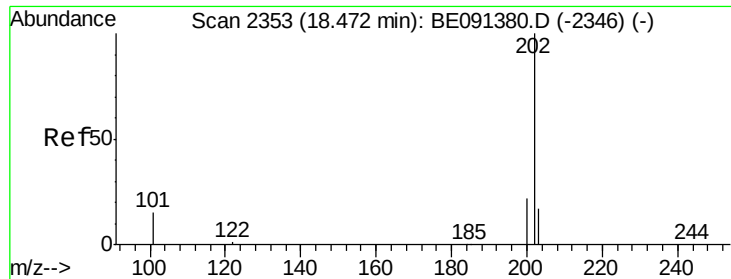
#18
 Chrysene-d12
 Concen: 5.00 ng
 RT: 20.22 min Scan# 2560
 Delta R.T. 0.00 min
 Lab File: BE091391.D
 Acq: 4 Feb 2016 12:14

Tgt Ion:240 Resp: 412334
 Ion Ratio Lower Upper
 240 100
 120 12.1 8.9 13.3
 236 26.4 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: 0.07 ng

RT: 18.49 min Scan# 2355

Delta R.T. 0.01 min

Lab File: BE091391.D

Acq: 4 Feb 2016 12:14

Instrument :

BNA_E

ClientSampleId :

LOD-WATER2016-01

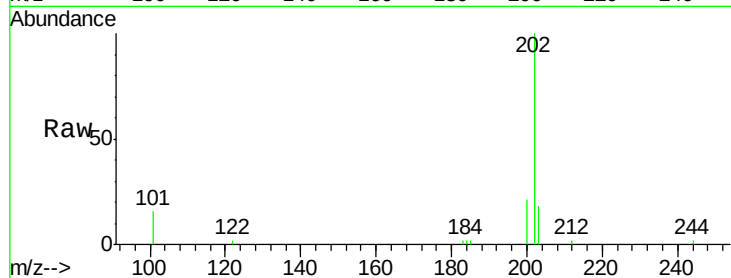
Tgt Ion:202 Resp: 6062

Ion Ratio Lower Upper

202 100

200 20.4 16.8 25.2

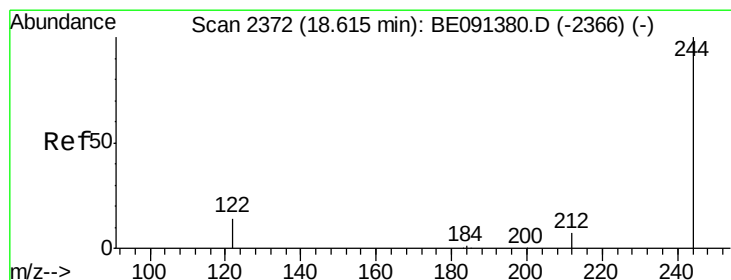
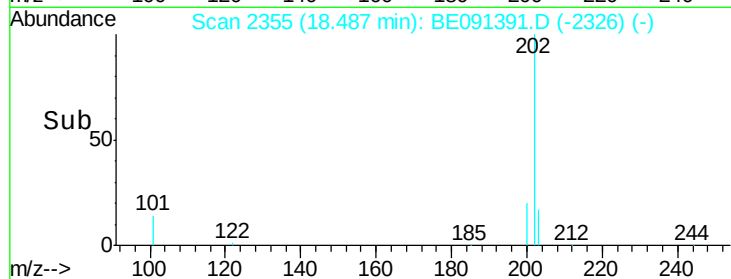
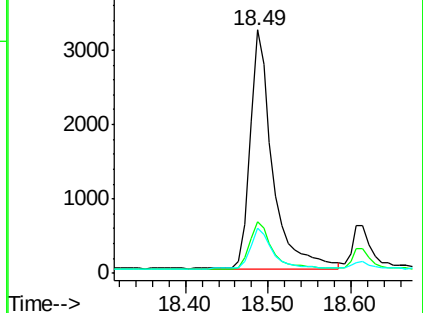
203 17.3 14.0 21.0



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: 4.12 ng

RT: 18.61 min Scan# 2372

Delta R.T. -0.00 min

Lab File: BE091391.D

Acq: 4 Feb 2016 12:14

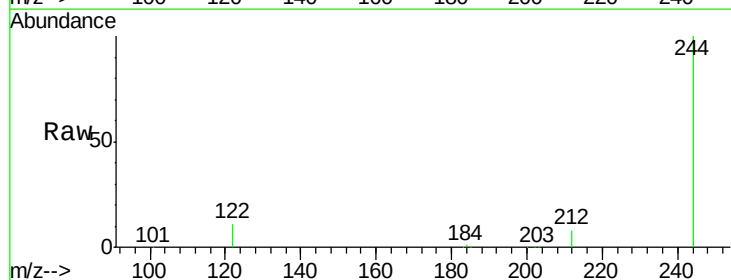
Tgt Ion:244 Resp: 251255

Ion Ratio Lower Upper

244 100

212 7.7 6.1 9.1

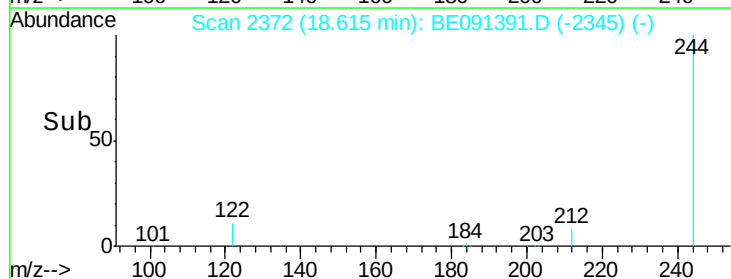
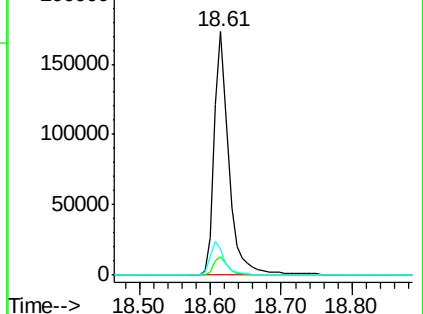
122 10.7 11.0 16.6#

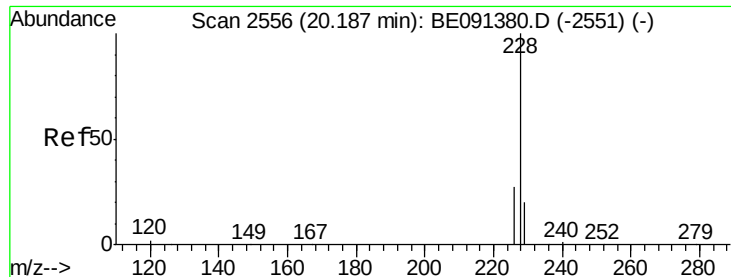


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#21

Benzo(a)anthracene

Concen: 0.23 ng

RT: 20.19 min Scan# 2557

Delta R.T. 0.00 min

Lab File: BE091391.D

Acq: 4 Feb 2016 12:14

Instrument :

BNA_E

ClientSampleId :

LOD-WATER2016-01

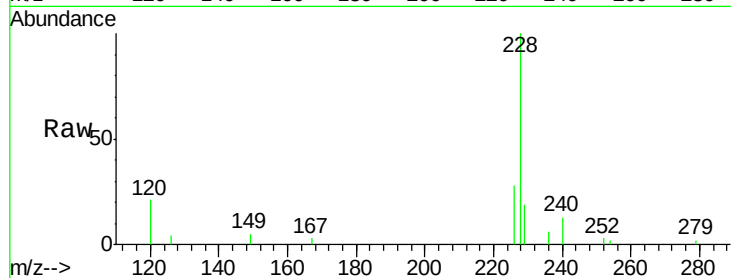
Tgt Ion:228 Resp: 5591

Ion Ratio Lower Upper

228 100

226 28.0 21.7 32.5

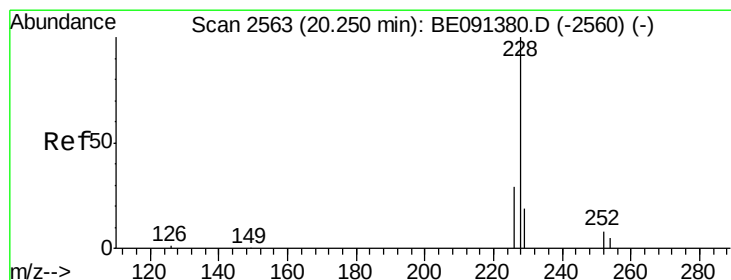
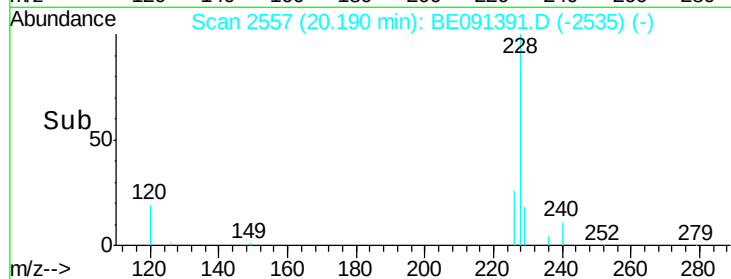
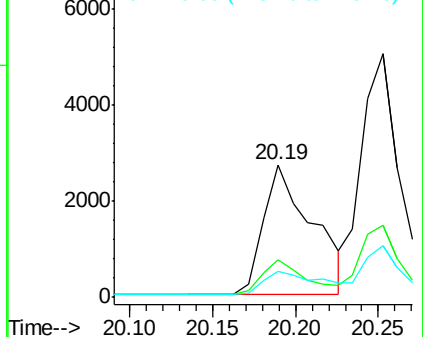
229 19.3 16.1 24.1



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: 0.01 ng

RT: 20.25 min Scan# 2564

Delta R.T. 0.00 min

Lab File: BE091391.D

Acq: 4 Feb 2016 12:14

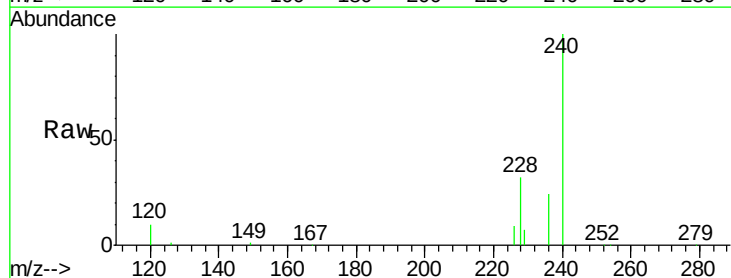
Tgt Ion:228 Resp: 8638

Ion Ratio Lower Upper

228 100

226 29.8 23.4 35.0

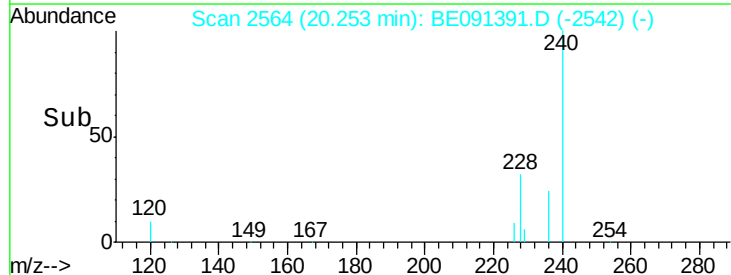
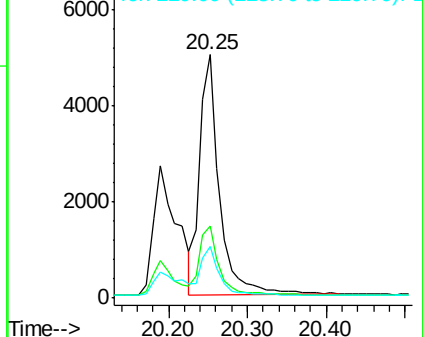
229 21.3 15.7 23.5

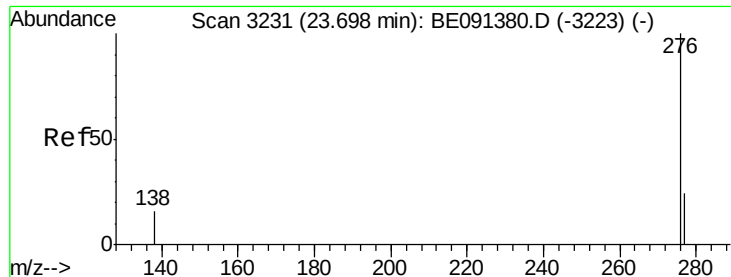


Abundance Ion 228.00 (227.70 to 228.70): E

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: 0.21 ng

RT: 23.73 min Scan# 3239

Delta R.T. 0.03 min

Lab File: BE091391.D

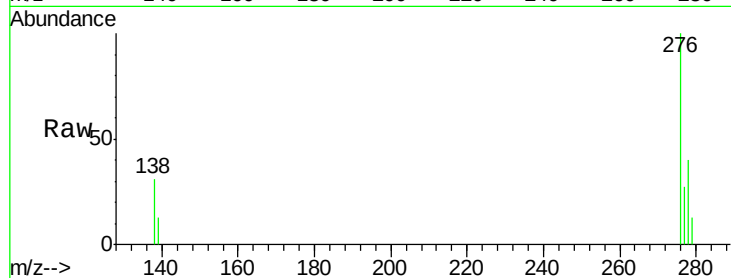
Acq: 4 Feb 2016 12:14

Instrument :

BNA_E

ClientSampleId :

LOD-WATER2016-01



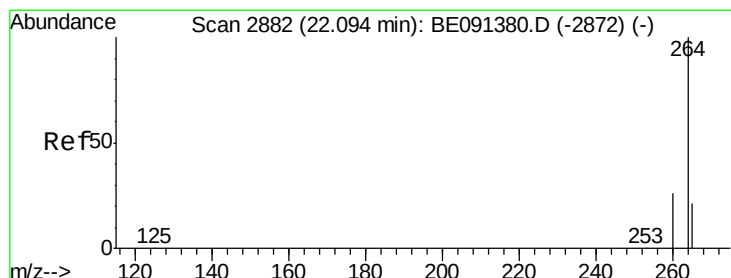
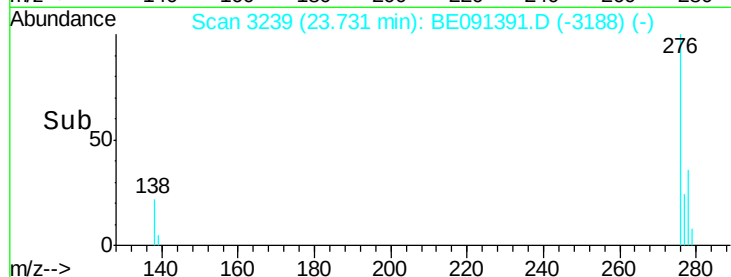
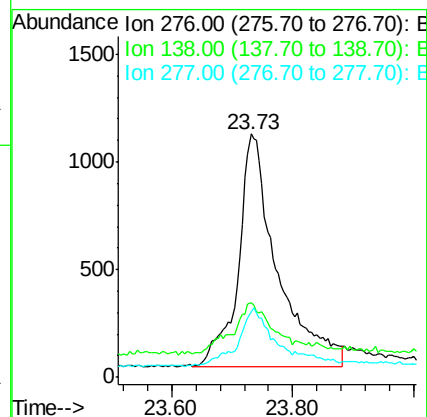
Tgt Ion:276 Resp: 4807

Ion Ratio Lower Upper

276 100

138 21.9 16.6 25.0

277 21.6 19.0 28.6



#24

Perylene-d12

Concen: 5.00 ng

RT: 22.10 min Scan# 2884

Delta R.T. 0.01 min

Lab File: BE091391.D

Acq: 4 Feb 2016 12:14

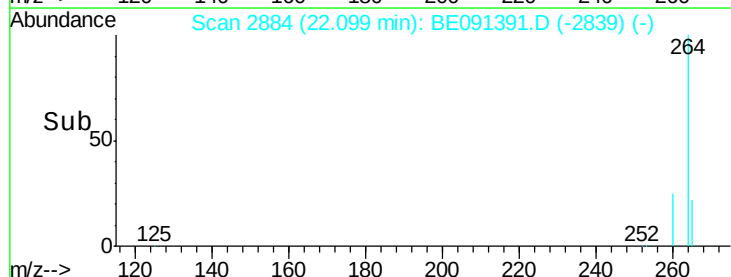
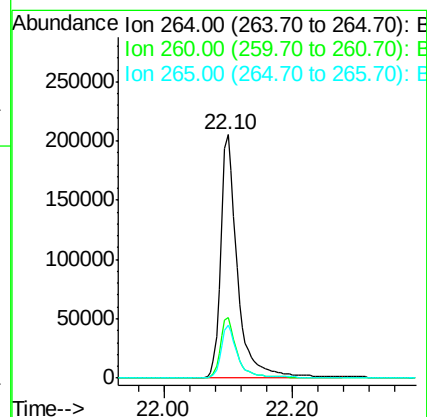
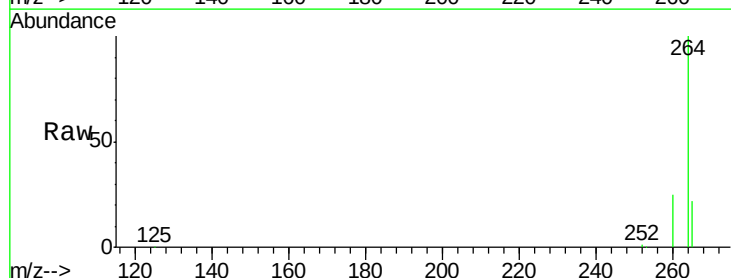
Tgt Ion:264 Resp: 371803

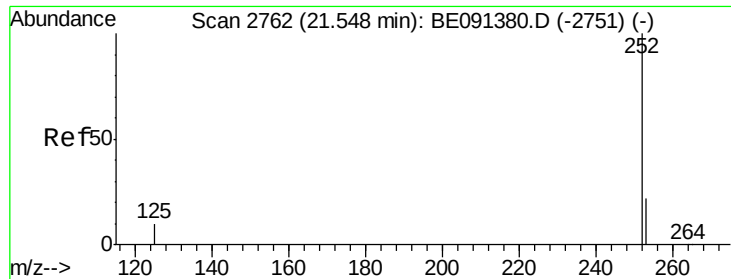
Ion Ratio Lower Upper

264 100

260 25.0 20.7 31.1

265 22.0 17.2 25.8

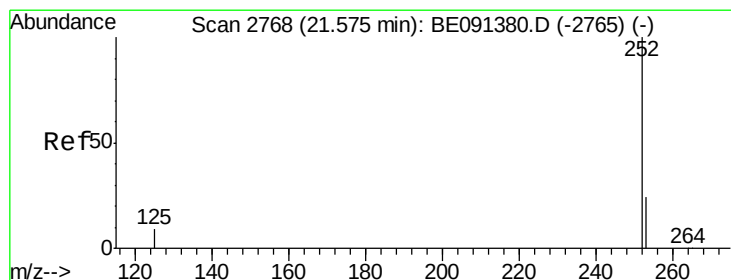
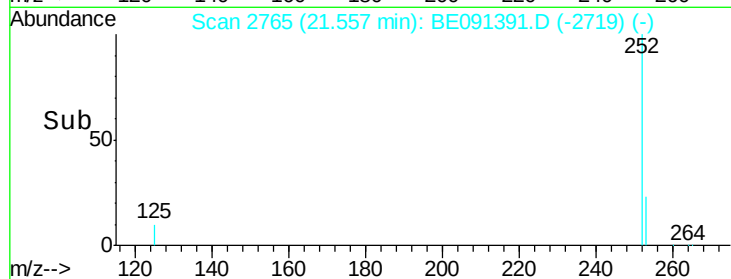
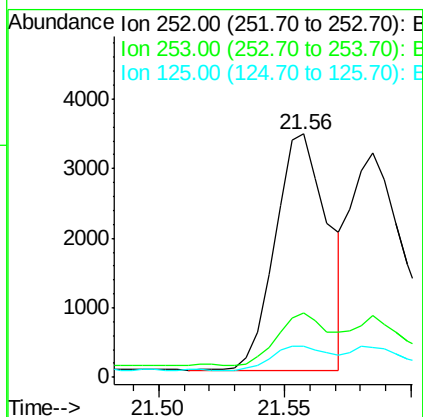
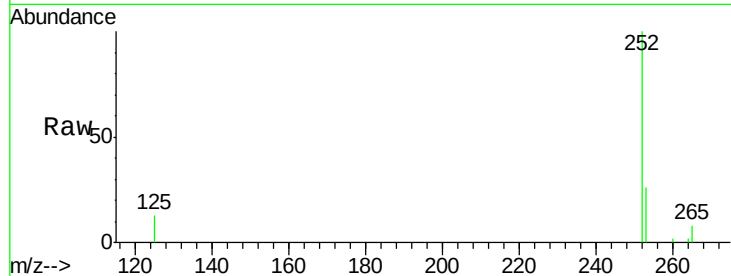




#25
Benzo(b)fluoranthene
Concen: 0.20 ng
RT: 21.56 min Scan# 2765
Delta R.T. 0.01 min
Lab File: BE091391.D
Acq: 4 Feb 2016 12:14

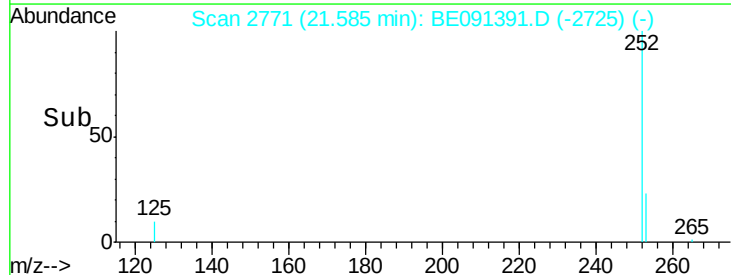
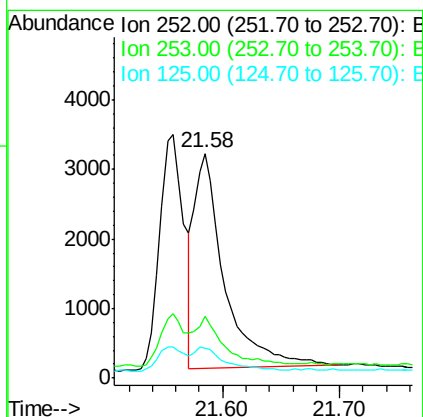
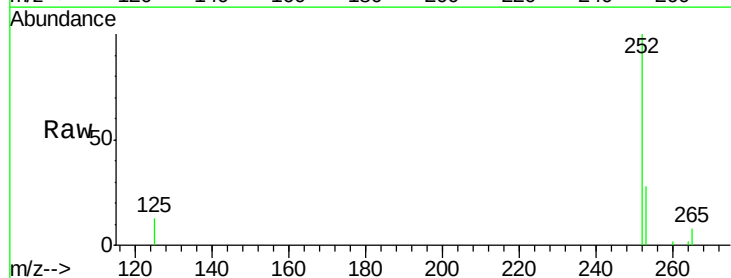
Instrument :
BNA_E
ClientSampleId :
LOD-WATER2016-01

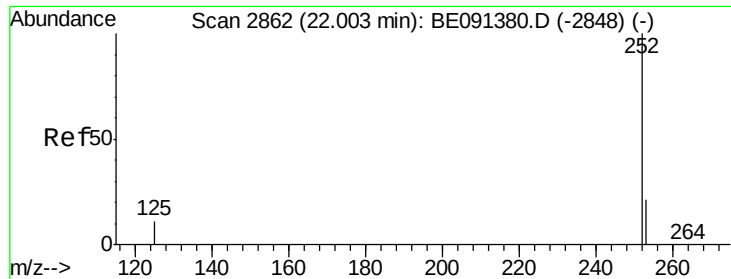
Tgt Ion:252 Resp: 4933
Ion Ratio Lower Upper
252 100
253 26.4 18.2 27.2
125 12.8 8.3 12.5#



#26
Benzo(k)fluoranthene
Concen: 0.08 ng
RT: 21.58 min Scan# 2771
Delta R.T. 0.01 min
Lab File: BE091391.D
Acq: 4 Feb 2016 12:14

Tgt Ion:252 Resp: 5475
Ion Ratio Lower Upper
252 100
253 27.6 18.1 27.1#
125 13.1 8.2 12.4#





#27

Benzo(a)pyrene

Concen: 0.21 ng

RT: 22.01 min Scan# 2864

Delta R.T. 0.01 min

Lab File: BE091391.D

Acq: 4 Feb 2016 12:14

Instrument :

BNA_E

ClientSampleId :

LOD-WATER2016-01

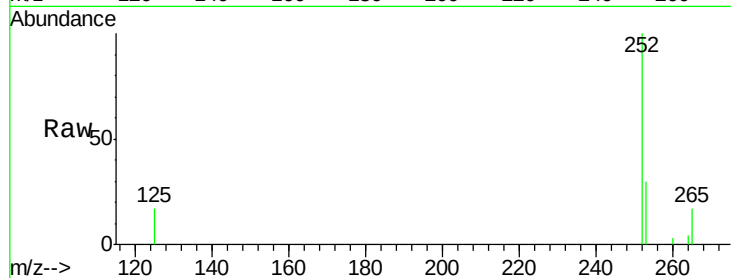
Tgt Ion:252 Resp: 3814

Ion Ratio Lower Upper

252 100

253 30.1 17.5 26.3#

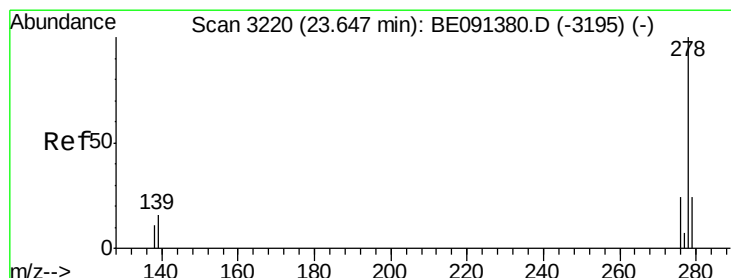
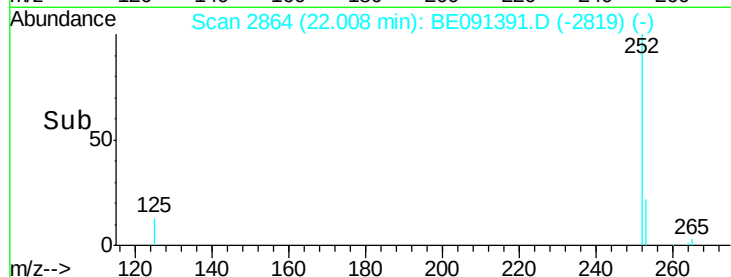
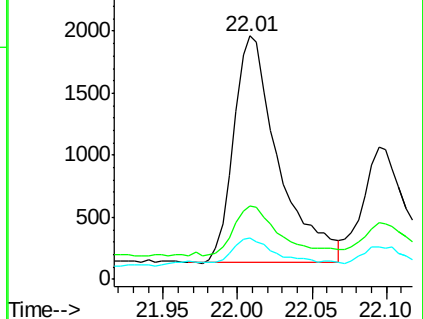
125 17.1 9.4 14.0#



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: 0.29 ng

RT: 23.69 min Scan# 3230

Delta R.T. 0.04 min

Lab File: BE091391.D

Acq: 4 Feb 2016 12:14

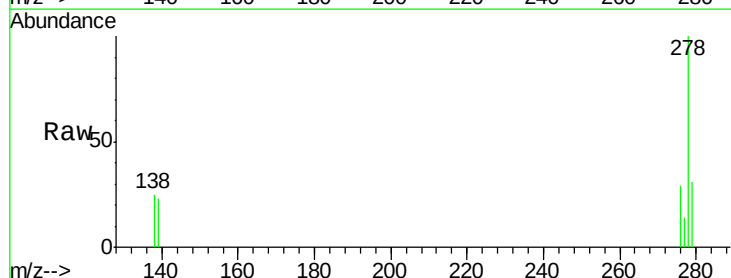
Tgt Ion:278 Resp: 3523

Ion Ratio Lower Upper

278 100

139 23.2 13.0 19.4#

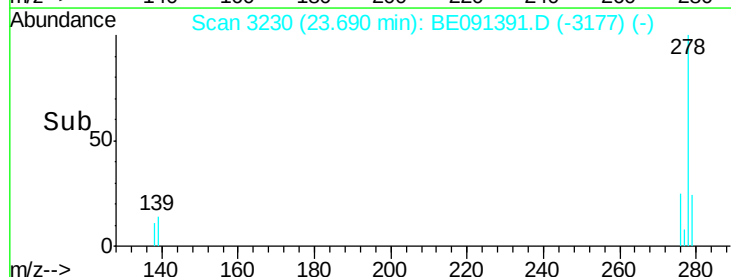
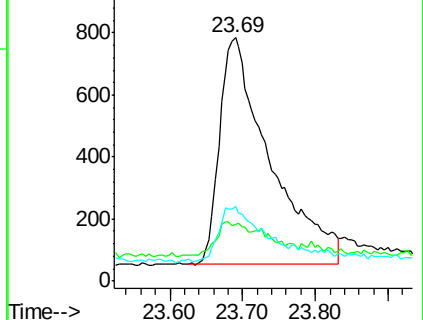
279 30.7 19.2 28.8#

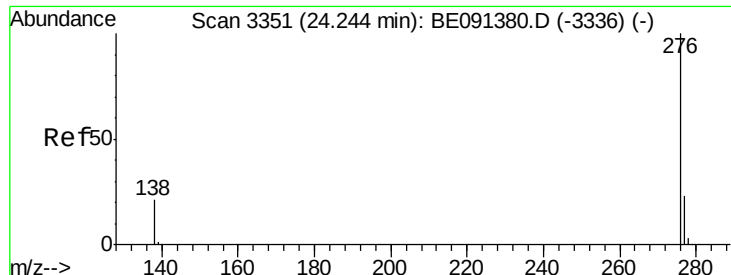


Abundance Ion 278.00 (277.70 to 278.70): E

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: 0.19 ng

RT: 24.28 min Scan# 3359

Delta R.T. 0.03 min

Lab File: BE091391.D

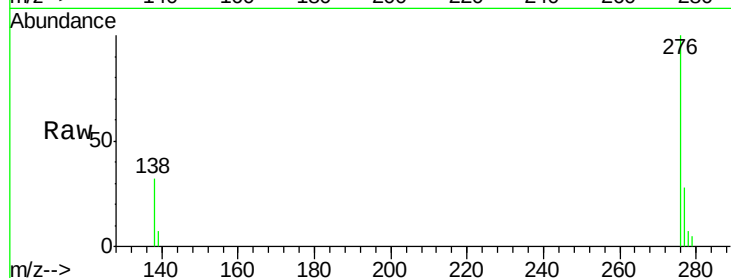
Acq: 4 Feb 2016 12:14

Instrument :

BNA_E

ClientSampleId :

LOD-WATER2016-01



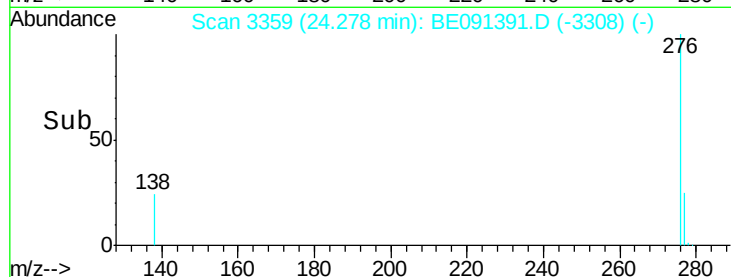
Tgt Ion: 276 Resp: 4860

Ion Ratio Lower Upper

276 100

277 27.7 18.9 28.3

138 31.6 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

