

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE011416\
 Data File : BE091365.D
 Acq On : 15 Jan 2016 00:12
 Operator : UM/IZ
 Sample : PB87820BS
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 PB87820BS

Quant Time: Jan 15 01:34:56 2016
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\8270-SIM-BE011416.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Jan 14 23:29:02 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.87	152	20665	5.00	ng	0.00
4) Naphthalene-d8	9.55	136	92710	5.00	ng	0.00
8) Acenaphthene-d10	13.35	164	43160	5.00	ng	0.00
14) Phenanthrene-d10	16.08	188	121791	5.00	ng	0.00
18) Chrysene-d12	20.22	240	149721	5.00	ng	0.00
24) Perylene-d12	22.10	264	106639	5.00	ng	0.00

System Monitoring Compounds						
2) 2-Fluorophenol	4.92	112	18769	6.11	ng	-0.03
3) Phenol-d6	6.54	99	34717	6.25	ng	-0.03
5) Nitrobenzene-d5	8.15	82	22660	4.22	ng	-0.02
9) 2,4,6-Tribromophenol	14.88	330	7635	5.24	ng	-0.01
10) 2-Fluorobiphenyl	12.00	172	46212	4.95	ng	-0.01
20) Terphenyl-d14	18.62	244	72714	3.50	ng	0.00

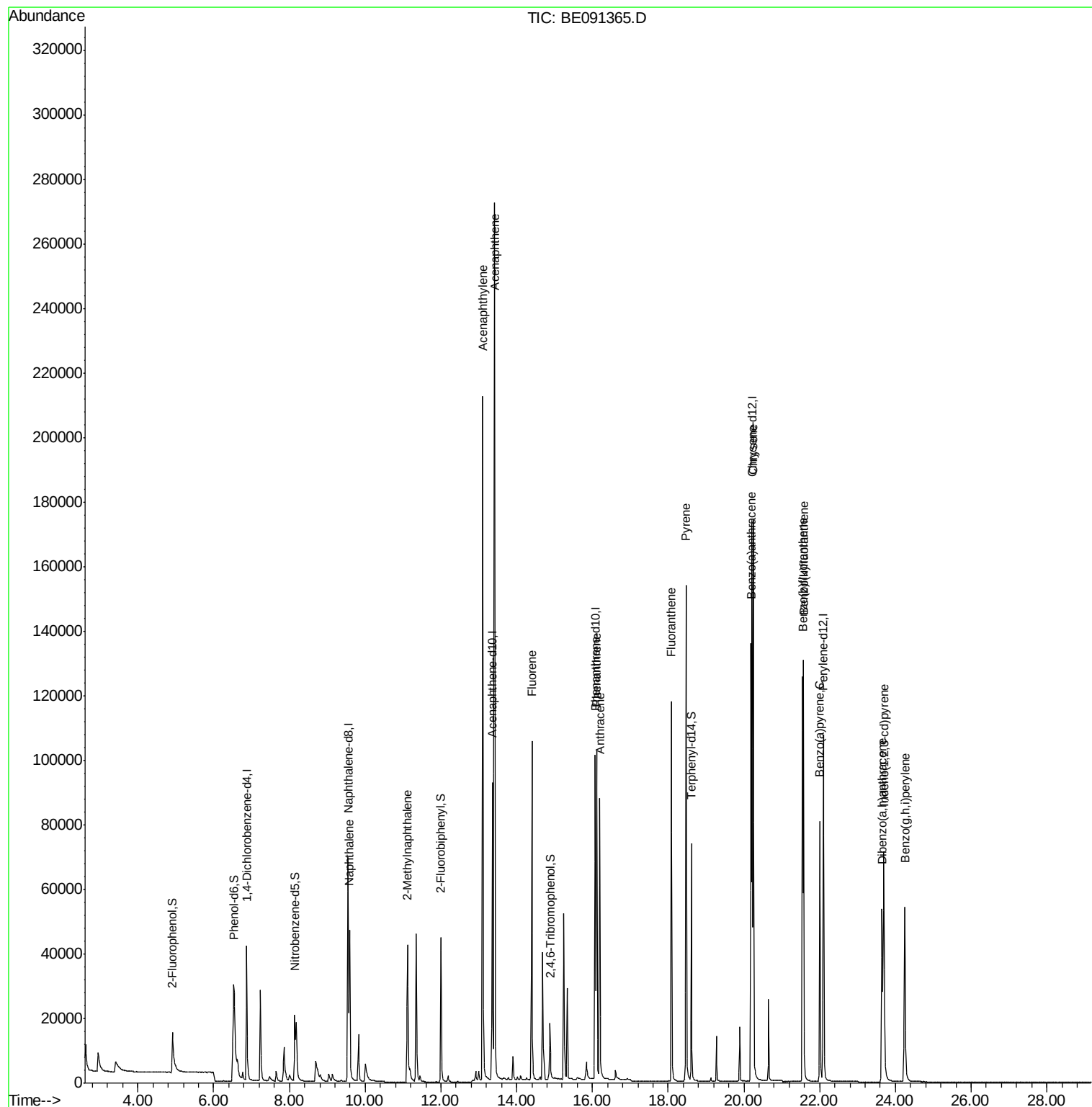
Target Compounds					Qvalue	
6) Naphthalene	9.59	128	71409	3.61	ng	99
7) 2-Methylnaphthalene	11.12	142	36364	3.16	ng	95
11) Acenaphthylene	13.10	152	278074	3.54	ng	99
12) Acenaphthene	13.41	154	48795	3.98	ng	84
13) Fluorene	14.40	166	71099	4.17	ng	96
15) Phenanthrene	16.11	178	125425	4.16	ng	100
16) Anthracene	16.20	178	106368	3.71	ng	100
17) Fluoranthene	18.09	202	102879	3.34	ng	100
19) Pyrene	18.47	202	120691	3.41	ng	99
21) Benzo(a)anthracene	20.19	228	100892	3.26	ng	98
22) Chrysene	20.25	228	138760	3.82	ng	99
23) Indeno(1,2,3-cd)pyrene	23.69	276	93060	2.74	ng	93
25) Benzo(b)fluoranthene	21.55	252	109243	4.11	ng	99
26) Benzo(k)fluoranthene	21.57	252	117428	3.91	ng	99
27) Benzo(a)pyrene	22.00	252	84283	3.30	ng	98
28) Dibenzo(a,h)anthracene	23.65	278	68290	3.03	ng	100
29) Benzo(g,h,i)perylene	24.25	276	83074	3.30	ng	97

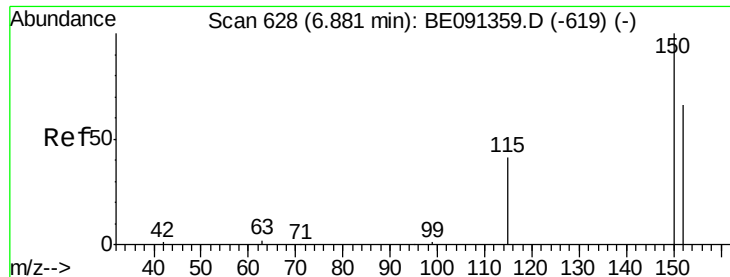
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 6.87 min Scan# 627

Delta R.T. -0.01 min

Lab File: BE091365.D

Acq: 15 Jan 2016 00:12

Instrument :

BNA_E

ClientSampleId :

PB87820BS

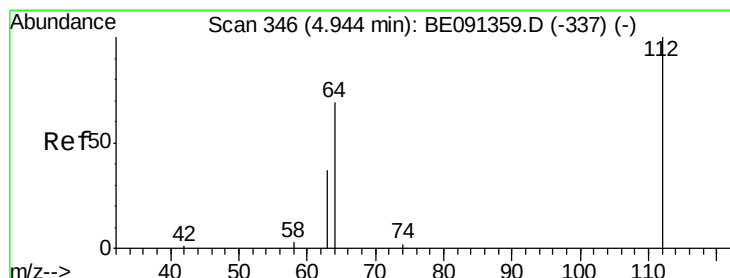
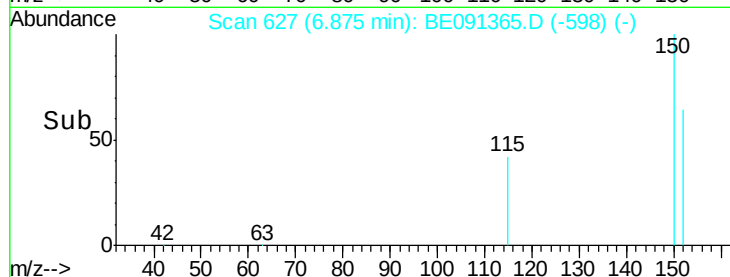
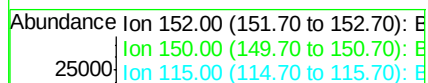
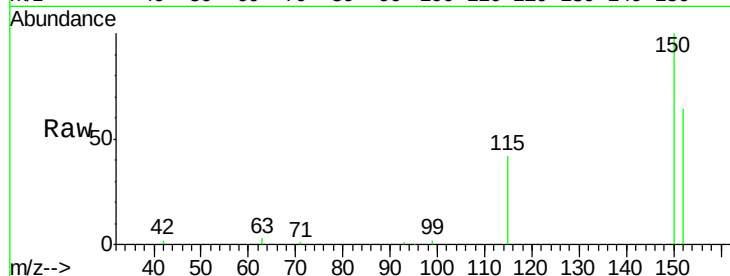
Tgt Ion:152 Resp: 20665

Ion Ratio Lower Upper

152 100

150 155.1 121.6 182.4

115 65.9 50.6 75.8



#2

2-Fluorophenol

Concen: 6.11 ng

RT: 4.92 min Scan# 342

Delta R.T. -0.03 min

Lab File: BE091365.D

Acq: 15 Jan 2016 00:12

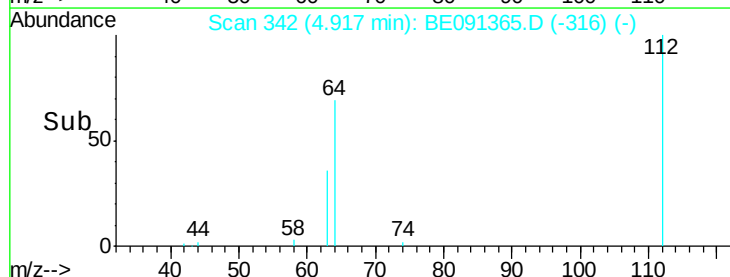
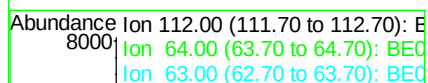
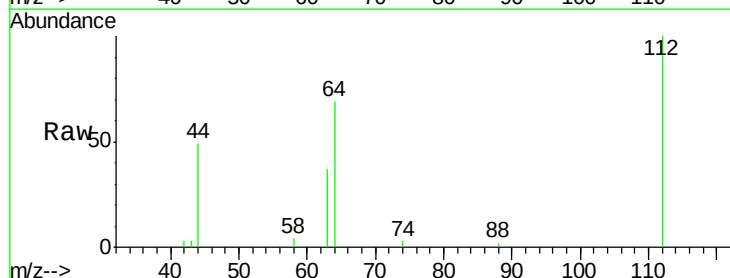
Tgt Ion:112 Resp: 18769

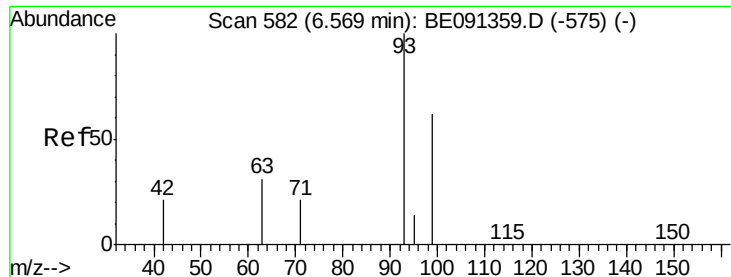
Ion Ratio Lower Upper

112 100

64 71.4 57.4 86.0

63 38.8 32.2 48.2





#3

Phenol-d6

Concen: 6.25 ng

RT: 6.54 min Scan# 577

Delta R.T. -0.03 min

Lab File: BE091365.D

Acq: 15 Jan 2016 00:12

Instrument :

BNA_E

ClientSampleId :

PB87820BS

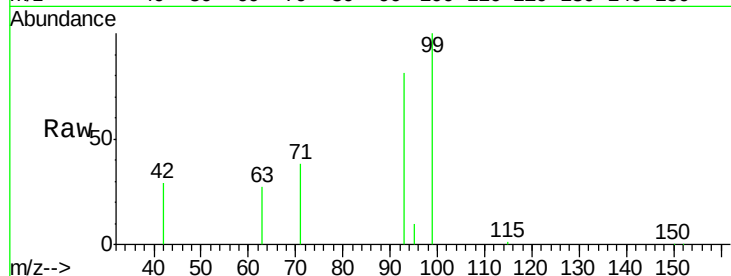
Tgt Ion: 99 Resp: 34717

Ion Ratio Lower Upper

99 100

42 23.5 22.9 34.3

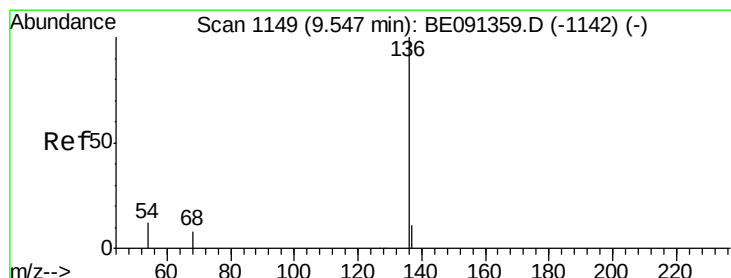
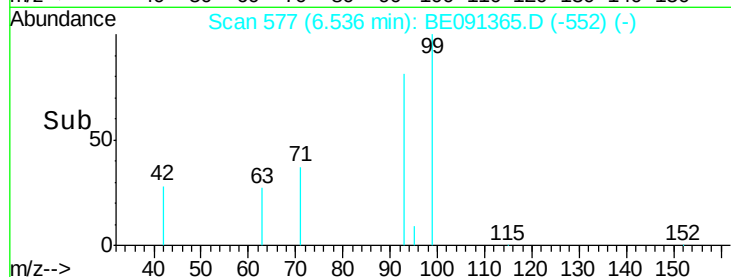
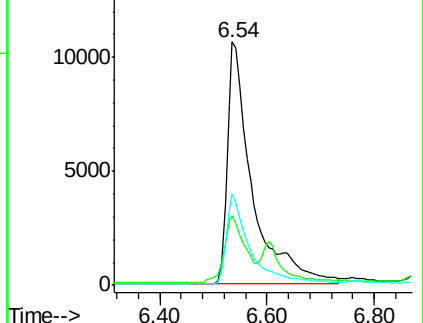
71 35.4 35.4 53.2#



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# 1149

Delta R.T. 0.00 min

Lab File: BE091365.D

Acq: 15 Jan 2016 00:12

Tgt Ion: 136 Resp: 92710

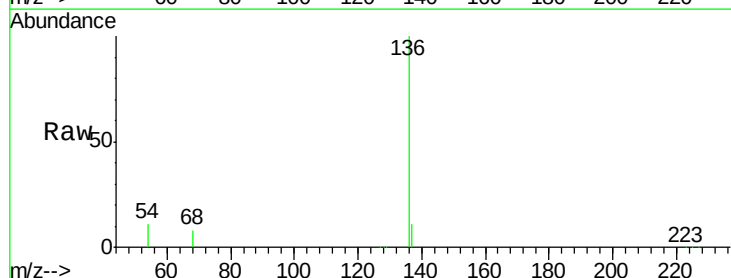
Ion Ratio Lower Upper

136 100

137 11.1 8.7 13.1

54 10.6 9.8 14.6

68 7.6 6.6 10.0

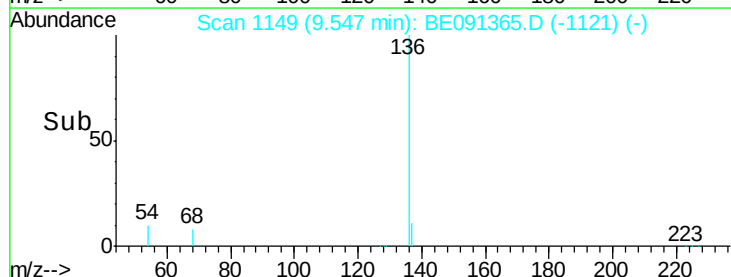
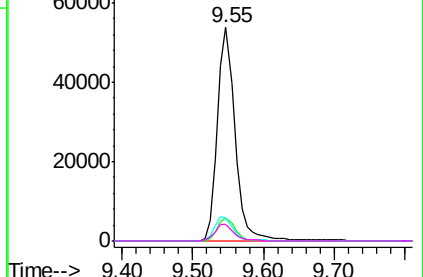


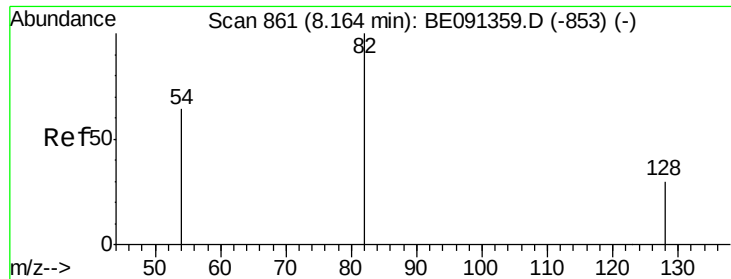
Abundance Ion 136.00 (135.70 to 136.70): E

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: 4.22 ng

RT: 8.15 min Scan# 857

Delta R.T. -0.02 min

Lab File: BE091365.D

Acq: 15 Jan 2016 00:12

Instrument :

BNA_E

ClientSampleId :

PB87820BS

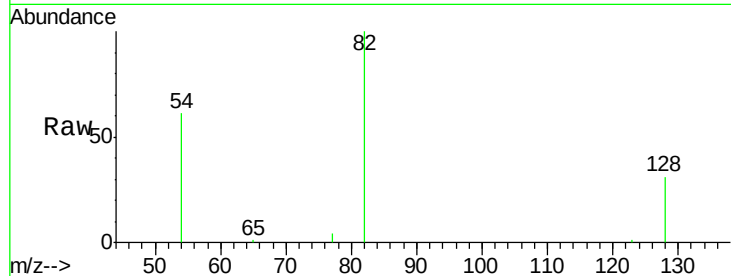
Tgt Ion: 82 Resp: 22660

Ion Ratio Lower Upper

82 100

128 31.1 24.6 36.8

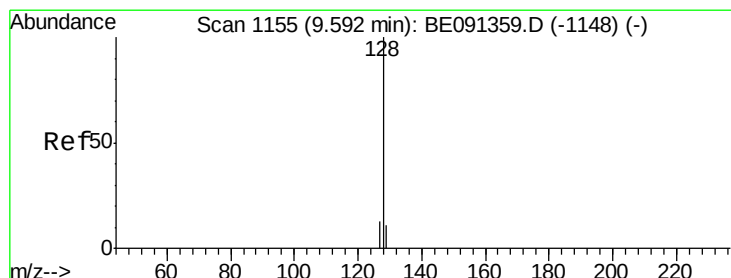
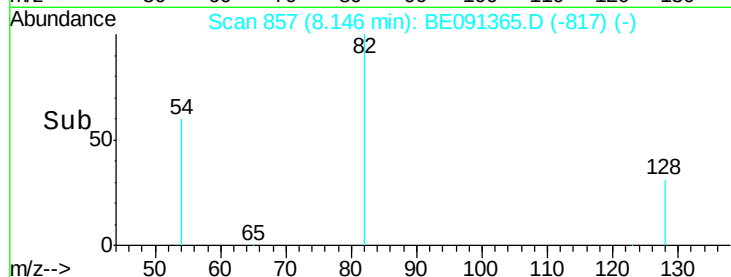
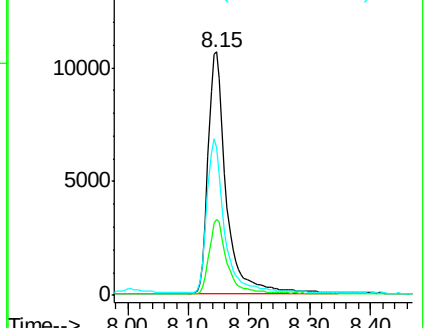
54 60.8 52.7 79.1



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: 3.61 ng

RT: 9.59 min Scan# 1155

Delta R.T. 0.00 min

Lab File: BE091365.D

Acq: 15 Jan 2016 00:12

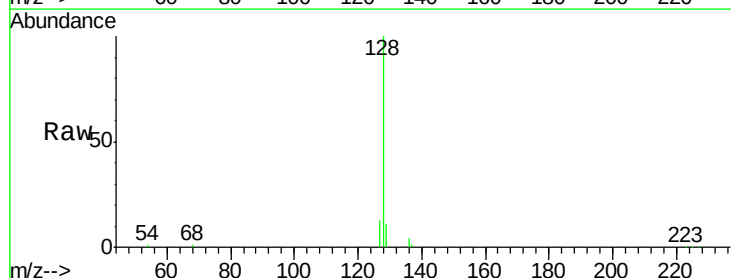
Tgt Ion: 128 Resp: 71409

Ion Ratio Lower Upper

128 100

129 11.1 9.3 13.9

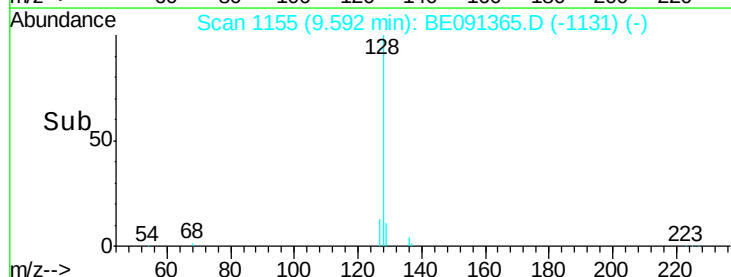
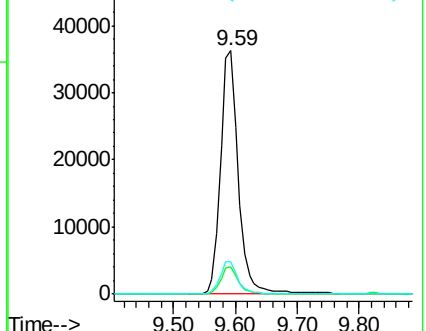
127 13.2 10.6 15.8

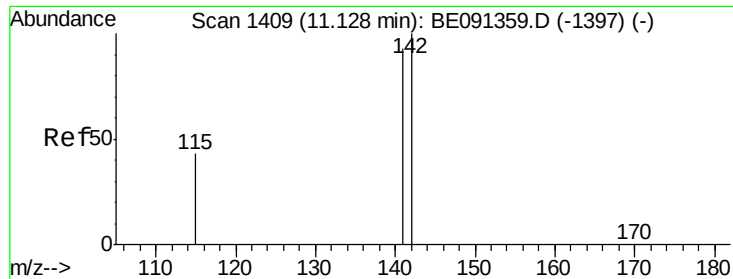


Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E





#7

2-Methylnaphthalene

Concen: 3.16 ng

RT: 11.12 min Scan# 1407

Delta R.T. -0.01 min

Lab File: BE091365.D

Acq: 15 Jan 2016 00:12

Instrument :

BNA_E

ClientSampleId :

PB87820BS

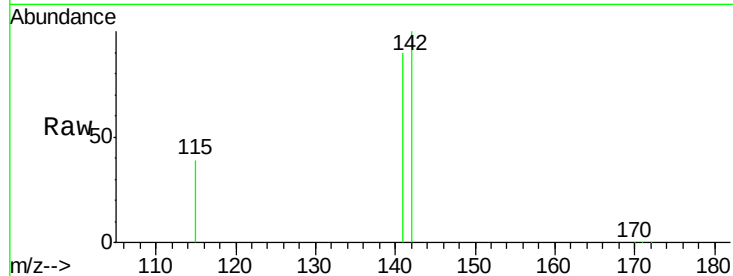
Tgt Ion:142 Resp: 36364

Ion Ratio Lower Upper

142 100

141 90.3 74.5 111.7

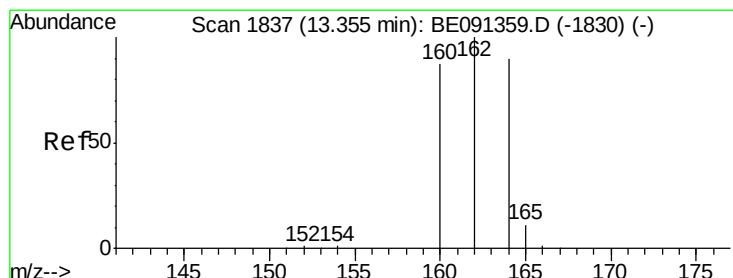
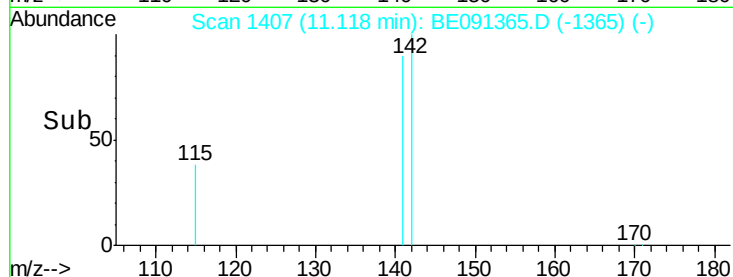
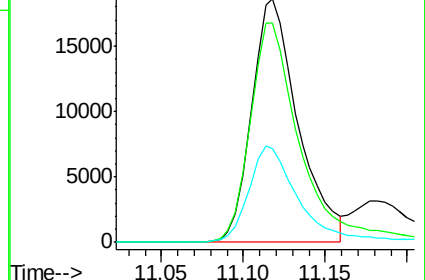
115 38.5 35.2 52.8



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: BE091365.D

Acq: 15 Jan 2016 00:12

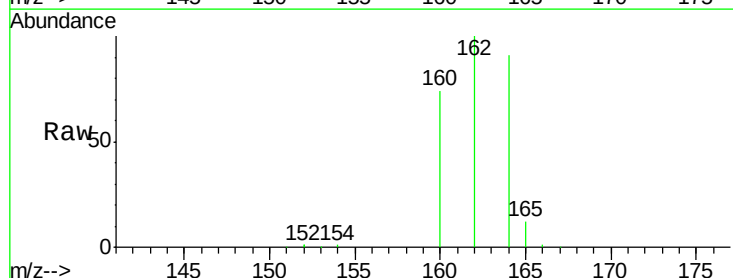
Tgt Ion:164 Resp: 43160

Ion Ratio Lower Upper

164 100

162 109.7 88.5 132.7

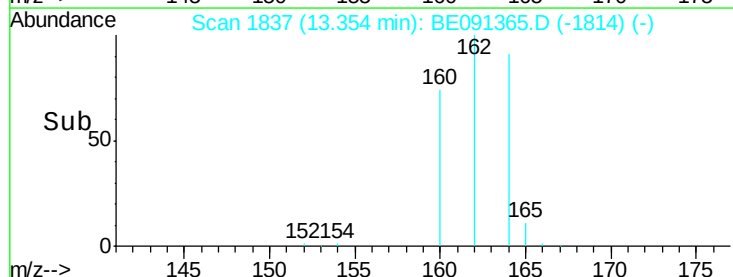
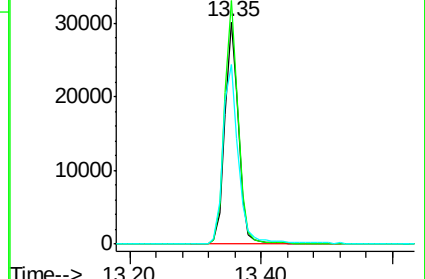
160 81.2 76.7 115.1

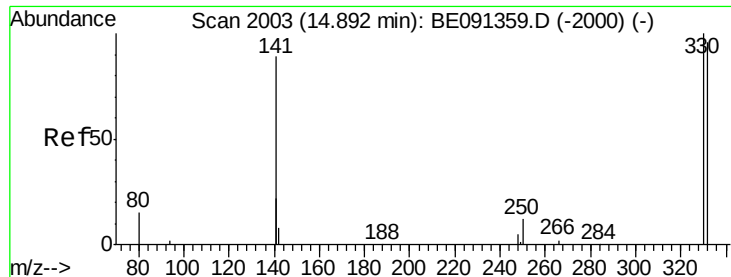


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E





#9

2,4,6-Tribromophenol

Concen: 5.24 ng

RT: 14.88 min Scan# 2002

Delta R.T. -0.01 min

Lab File: BE091365.D

Acq: 15 Jan 2016 00:12

Instrument :

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ClientSampleId :

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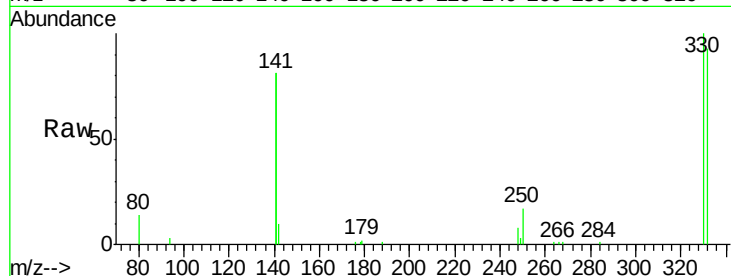
Tgt Ion:330 Resp: 7635

Ion Ratio Lower Upper

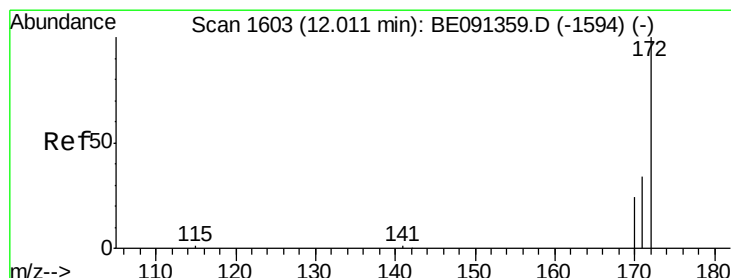
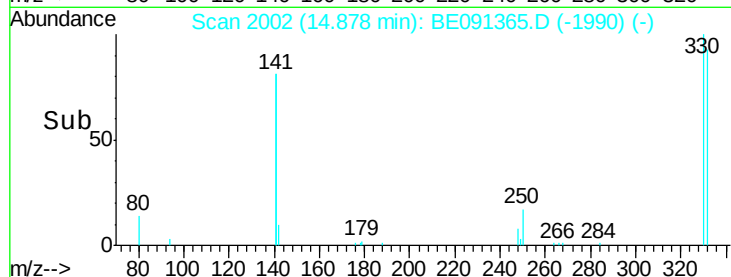
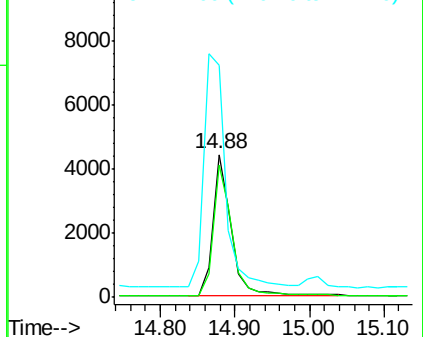
330 100

332 95.6 78.6 118.0

141 191.5 147.8 221.8



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: 4.95 ng

RT: 12.00 min Scan# 1601

Delta R.T. -0.01 min

Lab File: BE091365.D

Acq: 15 Jan 2016 00:12

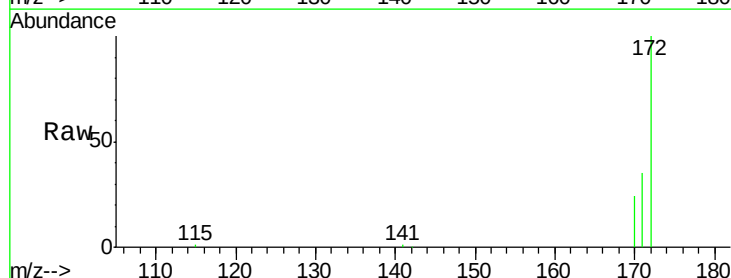
Tgt Ion:172 Resp: 46212

Ion Ratio Lower Upper

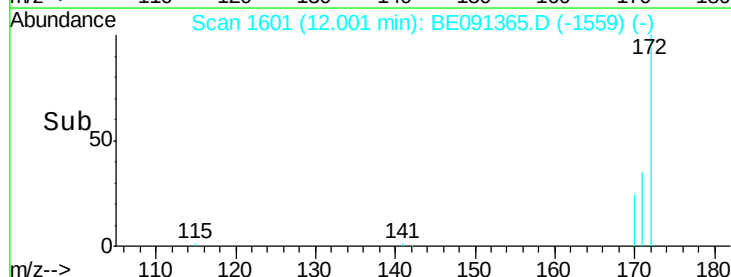
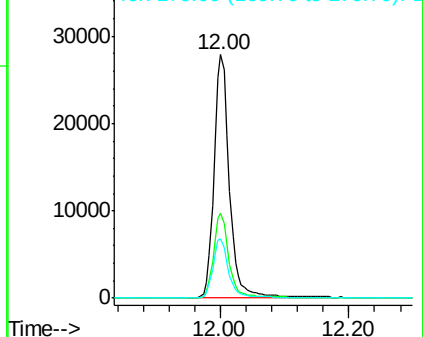
172 100

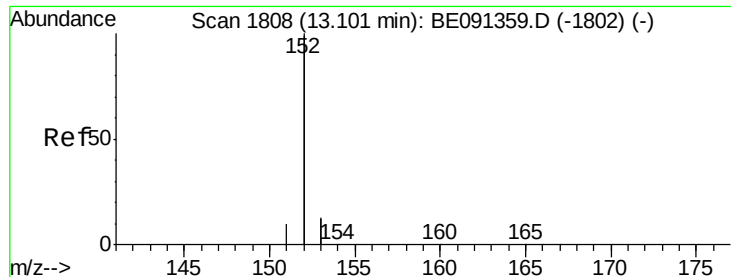
171 34.8 27.3 40.9

170 24.3 19.8 29.6



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: 3.54 ng

RT: 13.10 min Scan# 1808

Delta R.T. 0.00 min

Lab File: BE091365.D

Acq: 15 Jan 2016 00:12

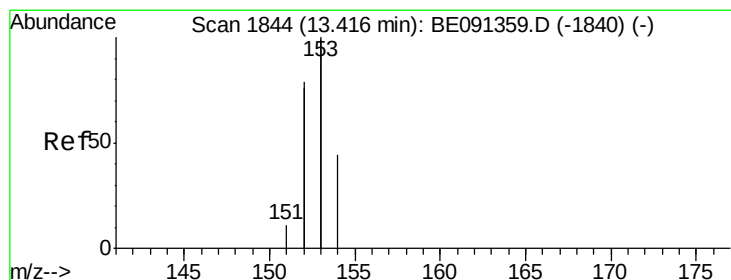
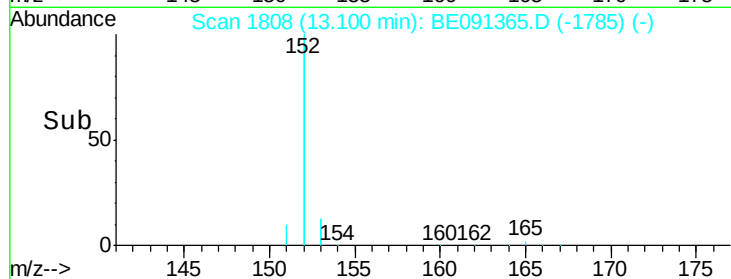
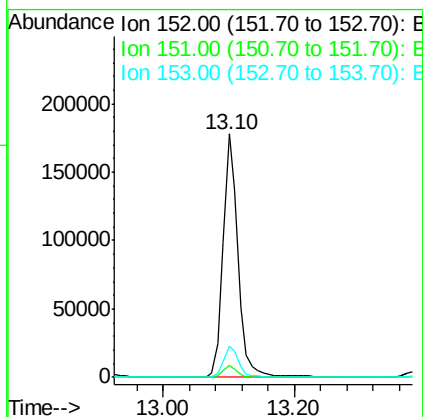
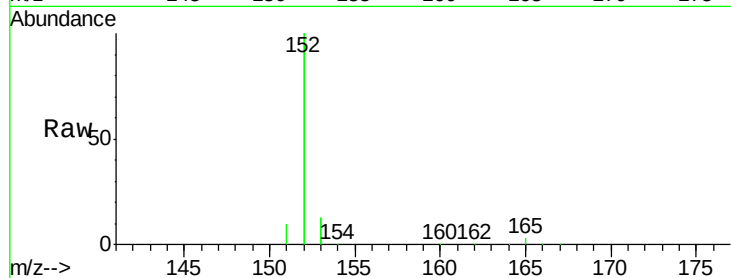
Instrument :

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Tgt Ion:	152	Resp:	278074
Ion	Ratio	Lower	Upper
152	100		
151	4.8	3.8	5.8
153	12.9	10.1	15.1



#12

Acenaphthene

Concen: 3.98 ng

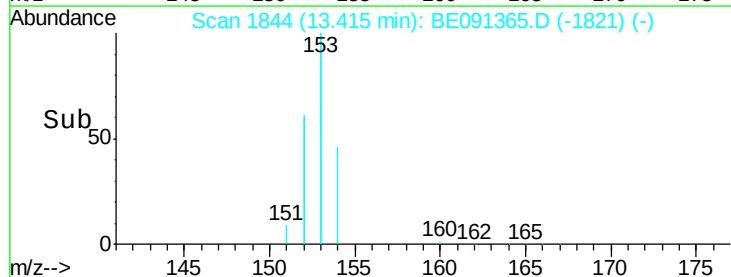
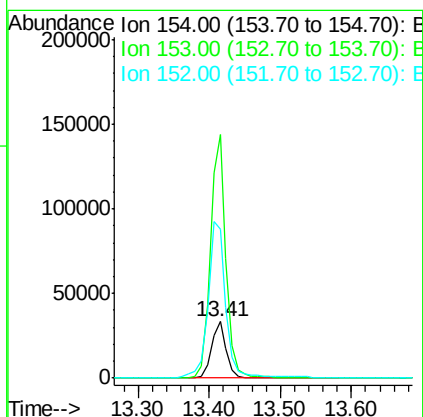
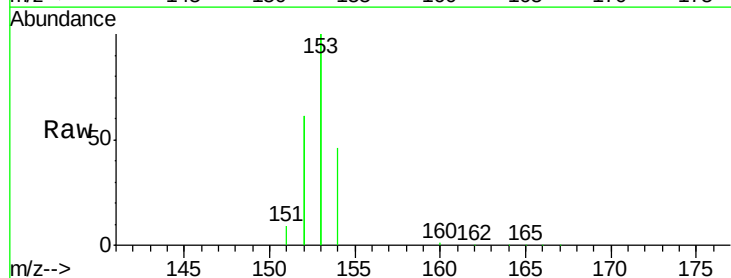
RT: 13.41 min Scan# 1844

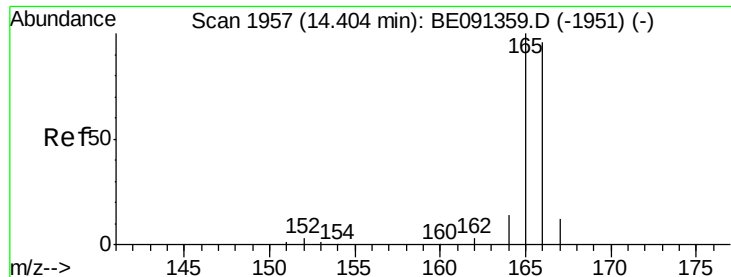
Delta R.T. -0.00 min

Lab File: BE091365.D

Acq: 15 Jan 2016 00:12

Tgt Ion:	154	Resp:	48795
Ion	Ratio	Lower	Upper
154	100		
153	448.6	370.2	555.4
152	322.3	310.5	465.7





#13

Fluorene

Concen: 4.17 ng

RT: 14.40 min Scan# 1957

Delta R.T. -0.00 min

Lab File: BE091365.D

Acq: 15 Jan 2016 00:12

Instrument :

BNA_E

ClientSampleId :

PB87820BS

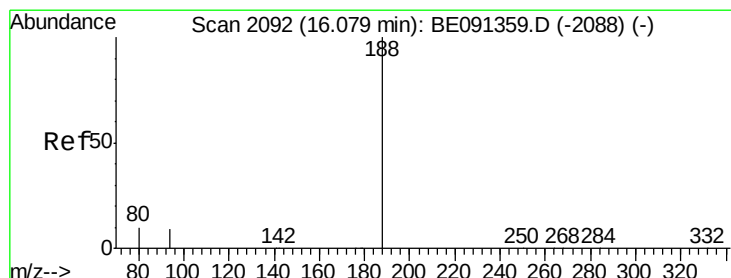
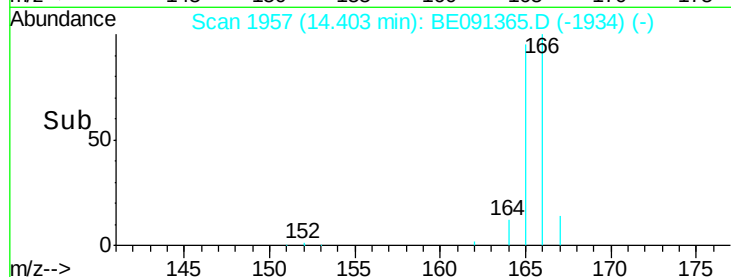
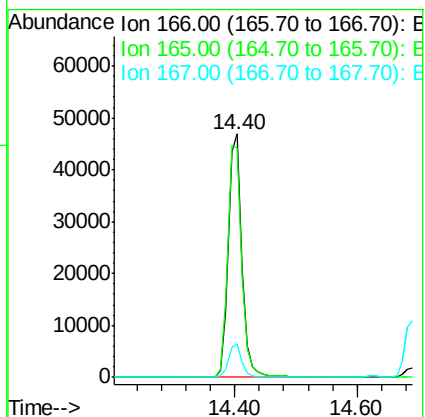
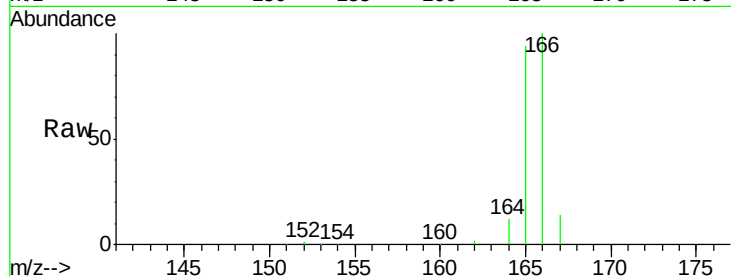
Tgt Ion:166 Resp: 71099

Ion Ratio Lower Upper

166 100

165 99.2 83.0 124.6

167 13.5 11.1 16.7



#14

Phenanthrene-d10

Concen: 5.00 ng

RT: 16.08 min Scan# 2092

Delta R.T. -0.00 min

Lab File: BE091365.D

Acq: 15 Jan 2016 00:12

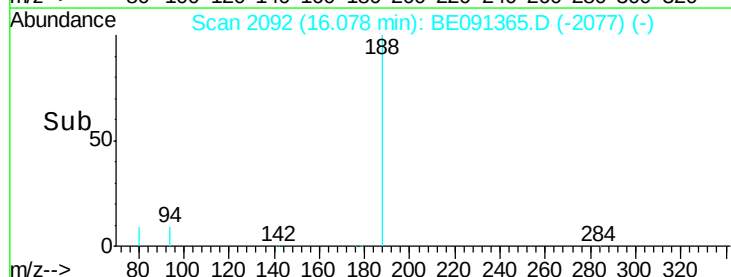
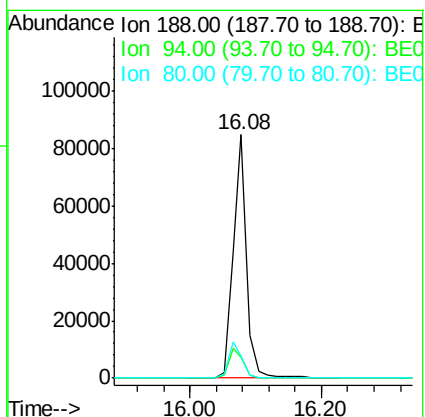
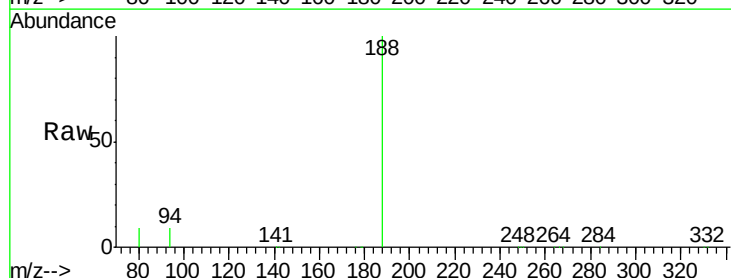
Tgt Ion:188 Resp: 121791

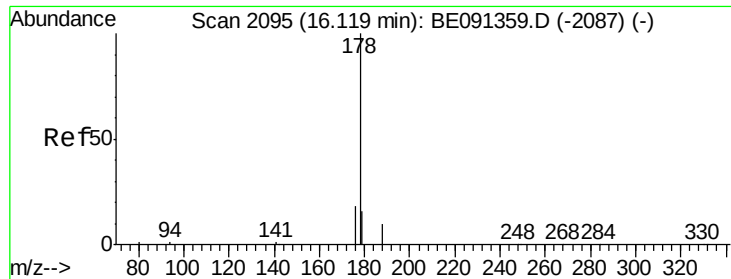
Ion Ratio Lower Upper

188 100

94 8.8 7.5 11.3

80 9.1 8.2 12.2





#15

Phenanthrene

Concen: 4.16 ng

RT: 16.11 min Scan# 2094

Delta R.T. -0.01 min

Lab File: BE091365.D

Acq: 15 Jan 2016 00:12

Instrument :

BNA_E

ClientSampleId :

PB87820BS

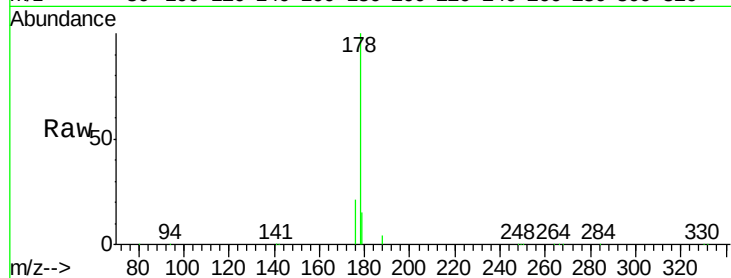
Tgt Ion:178 Resp: 125425

Ion Ratio Lower Upper

178 100

176 19.4 15.4 23.2

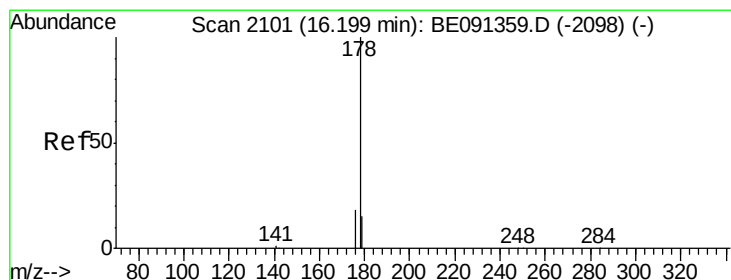
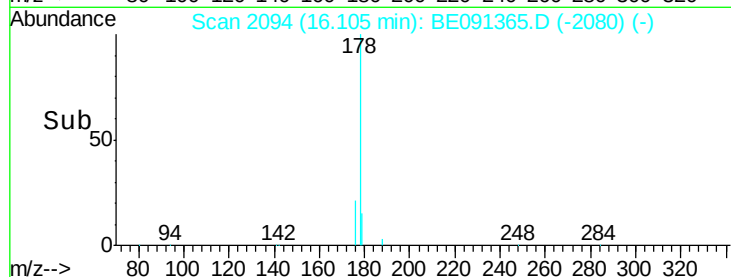
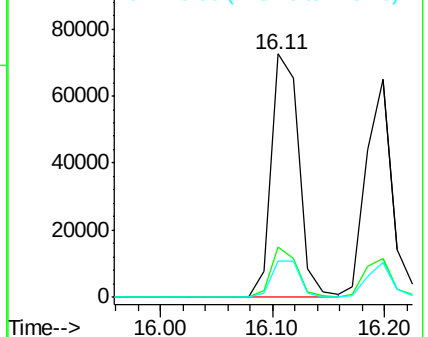
179 15.7 12.8 19.2



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: 3.71 ng

RT: 16.20 min Scan# 2101

Delta R.T. -0.00 min

Lab File: BE091365.D

Acq: 15 Jan 2016 00:12

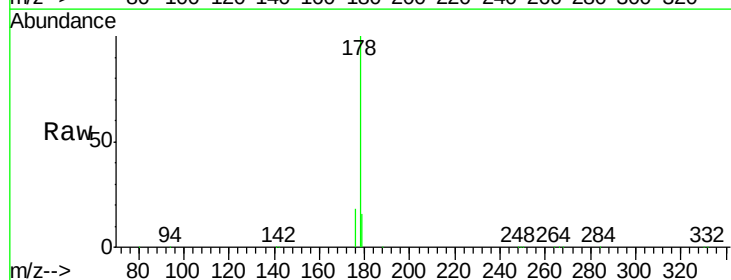
Tgt Ion:178 Resp: 106368

Ion Ratio Lower Upper

178 100

176 18.8 15.0 22.6

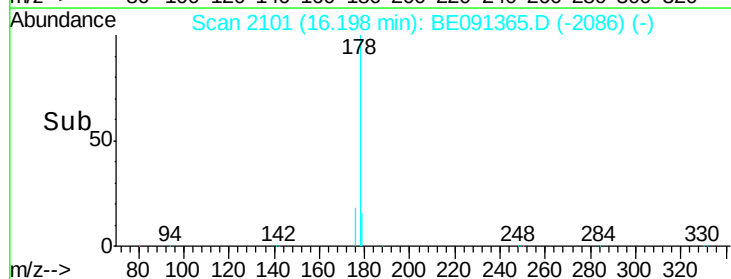
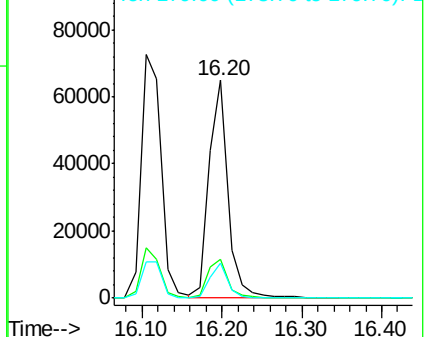
179 15.3 12.4 18.6

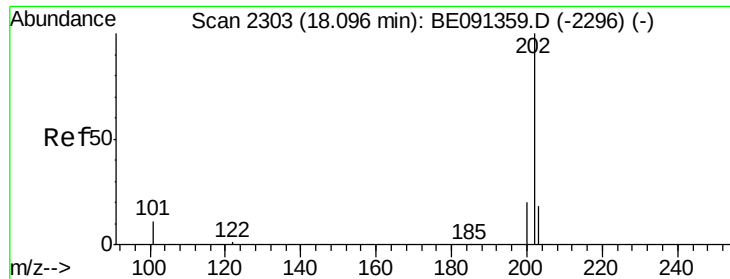


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

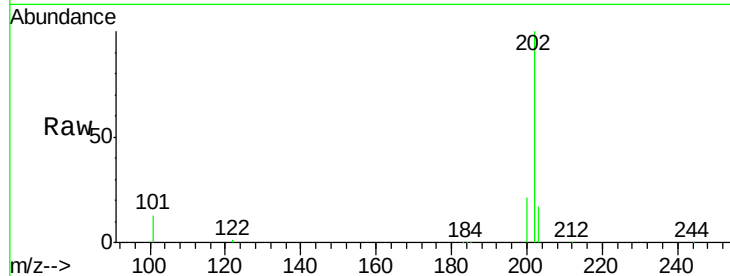




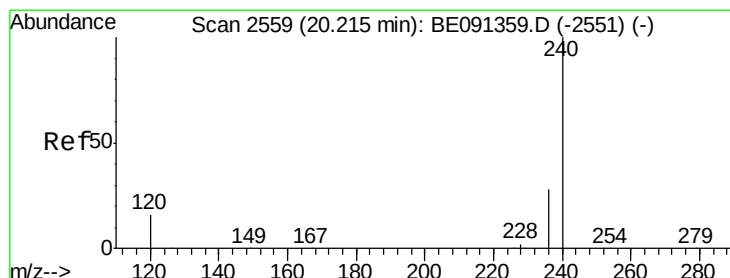
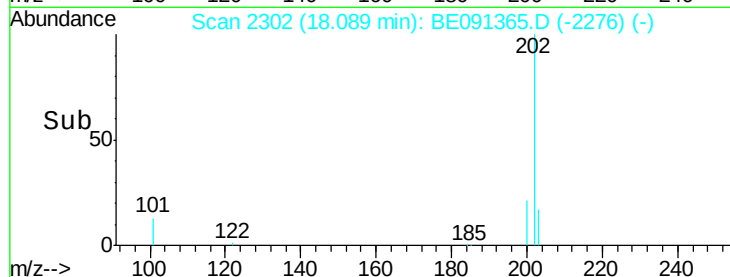
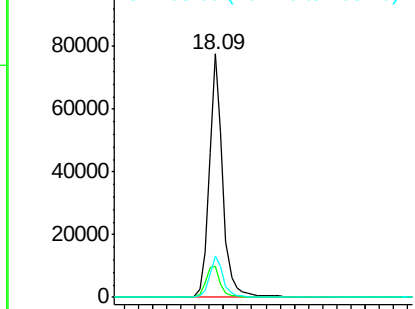
#17
 Fluoranthene
 Concen: 3.34 ng
 RT: 18.09 min Scan# 2302
 Delta R.T. -0.01 min
 Lab File: BE091365.D
 Acq: 15 Jan 2016 00:12

Instrument :
 BNA_E
 ClientSampleId :
 PB87820BS

Tgt Ion:202 Resp: 102879
 Ion Ratio Lower Upper
 202 100
 101 14.0 11.0 16.4
 203 17.3 13.9 20.9

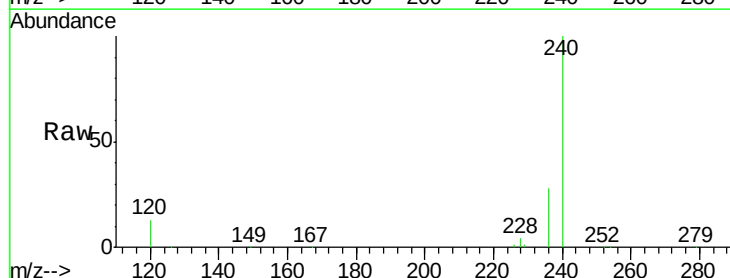


Abundance Ion 202.00 (201.70 to 202.70): E
 Ion 101.00 (100.70 to 101.70): E
 Ion 203.00 (202.70 to 203.70): E

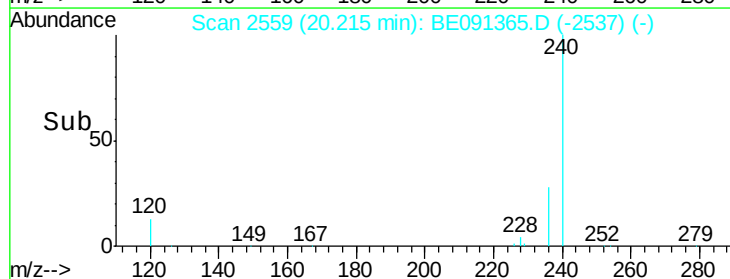
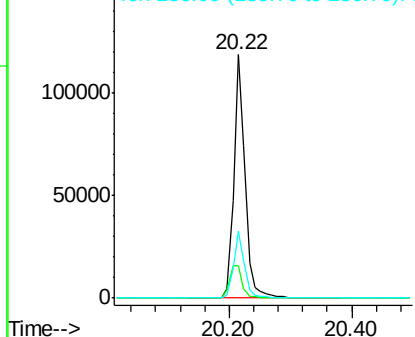


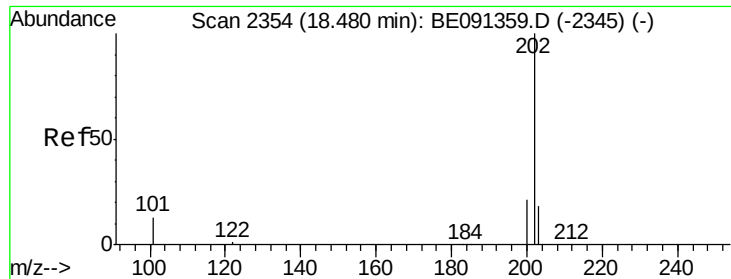
#18
 Chrysene-d12
 Concen: 5.00 ng
 RT: 20.22 min Scan# 2559
 Delta R.T. 0.00 min
 Lab File: BE091365.D
 Acq: 15 Jan 2016 00:12

Tgt Ion:240 Resp: 149721
 Ion Ratio Lower Upper
 240 100
 120 13.1 12.6 19.0
 236 27.7 22.7 34.1



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: 3.41 ng

RT: 18.47 min Scan# 2353

Delta R.T. -0.01 min

Lab File: BE091365.D

Acq: 15 Jan 2016 00:12

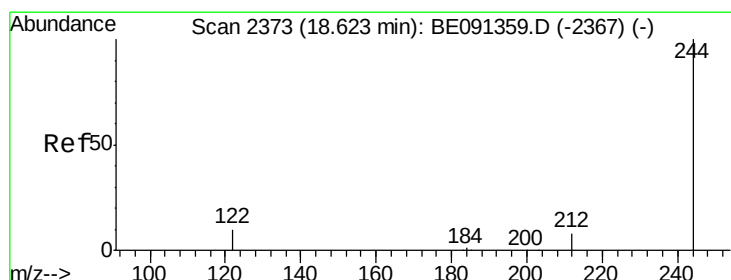
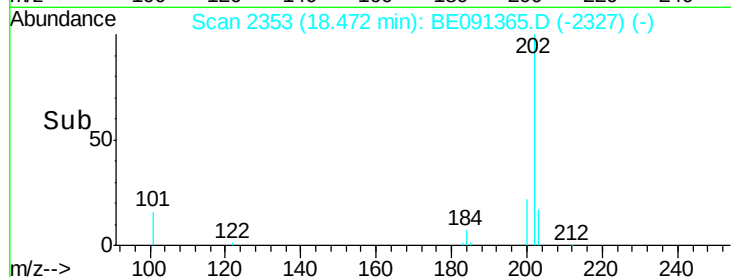
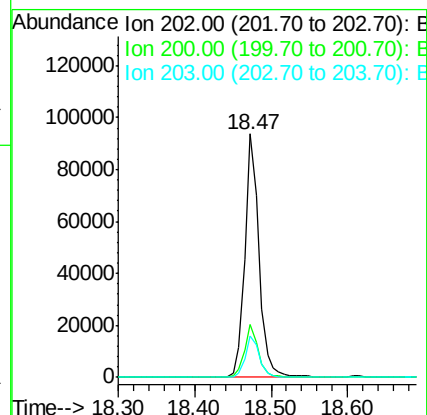
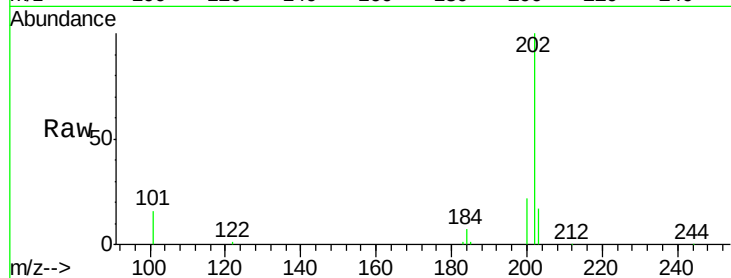
Instrument :

BNA_E

ClientSampleId :

PB87820BS

Tgt Ion:	202	Resp:	120691
Ion	Ratio	Lower	Upper
202	100		
200	21.2	17.2	25.8
203	17.5	14.2	21.4



#20

Terphenyl-d14

Concen: 3.50 ng

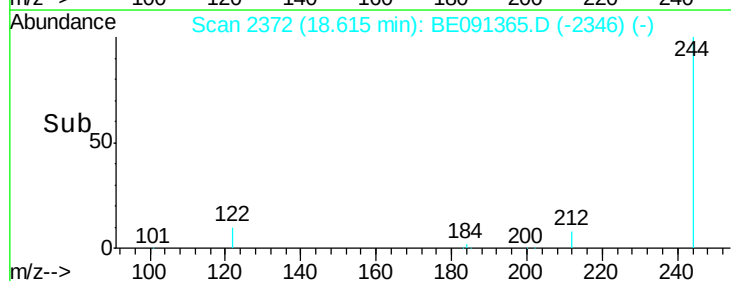
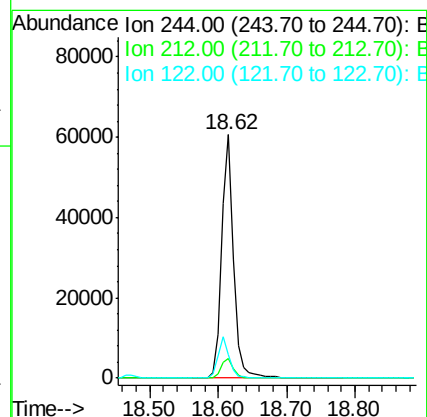
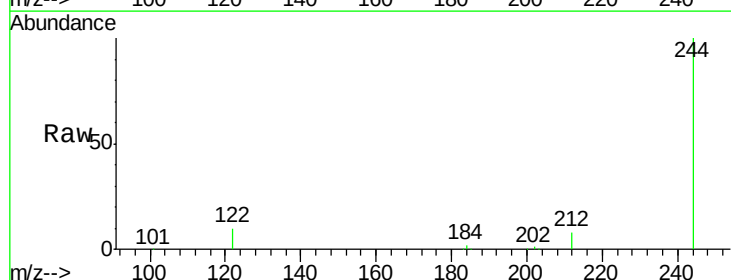
RT: 18.62 min Scan# 2372

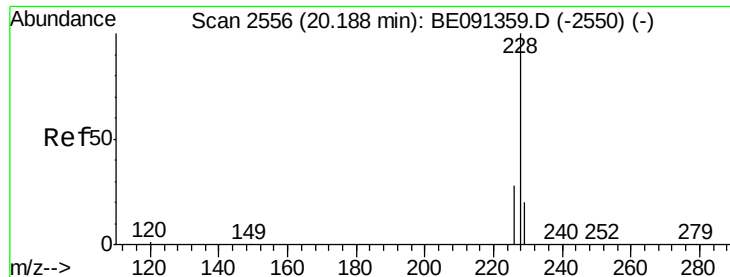
Delta R.T. -0.01 min

Lab File: BE091365.D

Acq: 15 Jan 2016 00:12

Tgt Ion:	244	Resp:	72714
Ion	Ratio	Lower	Upper
244	100		
212	8.3	7.0	10.4
122	9.9	8.5	12.7

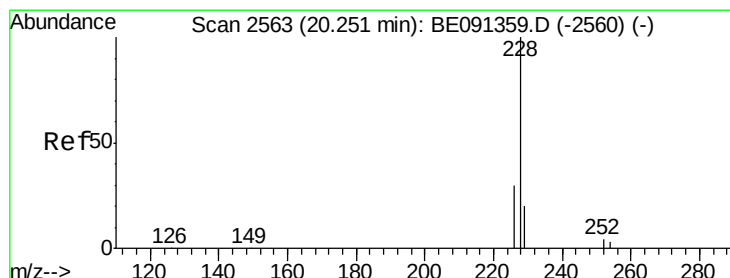
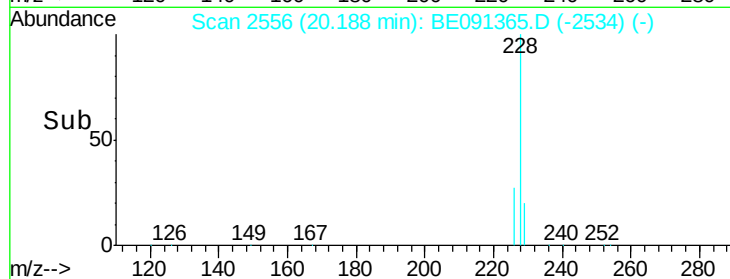
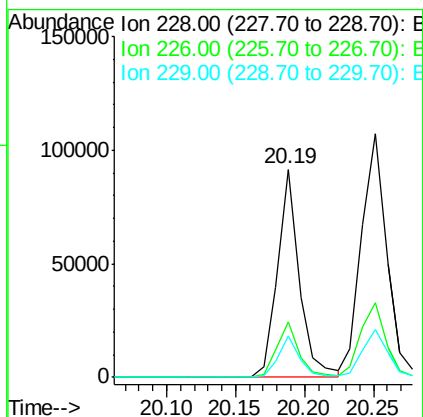
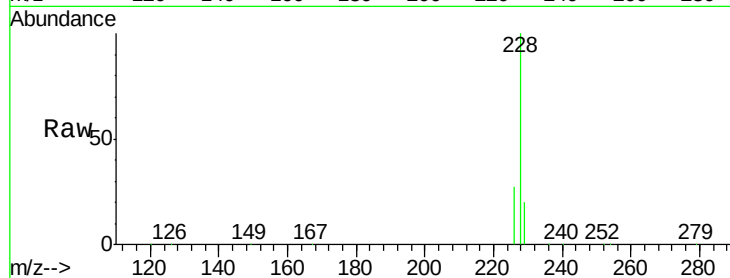




#21
Benzo(a)anthracene
Concen: 3.26 ng
RT: 20.19 min Scan# 2556
Delta R.T. 0.00 min
Lab File: BE091365.D
Acq: 15 Jan 2016 00:12

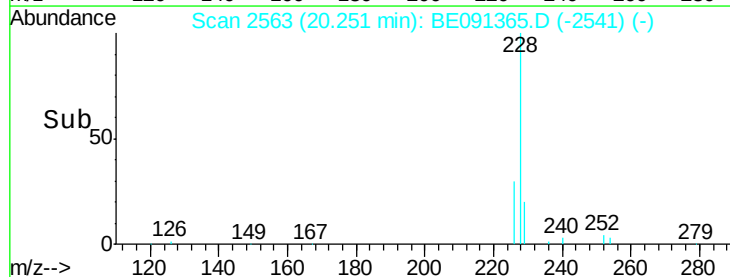
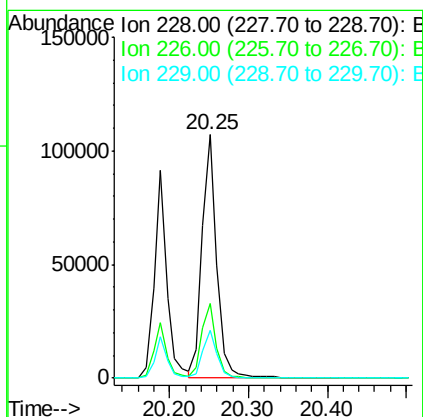
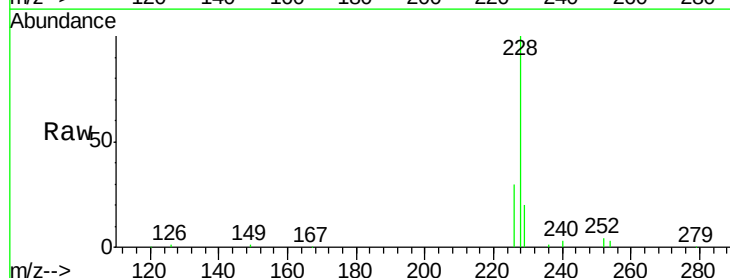
Instrument :
BNA_E
ClientSampleId :
PB87820BS

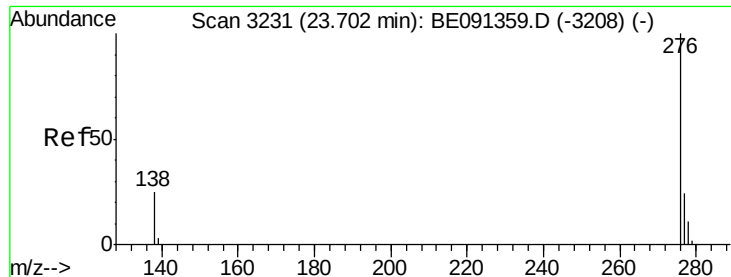
Tgt Ion:228 Resp: 100892
Ion Ratio Lower Upper
228 100
226 26.9 22.5 33.7
229 19.8 16.2 24.4



#22
Chrysene
Concen: 3.82 ng
RT: 20.25 min Scan# 2563
Delta R.T. 0.00 min
Lab File: BE091365.D
Acq: 15 Jan 2016 00:12

Tgt Ion:228 Resp: 138760
Ion Ratio Lower Upper
228 100
226 30.4 23.7 35.5
229 19.9 16.0 24.0





#23

Indeno(1,2,3-cd)pyrene

Concen: 2.74 ng

RT: 23.69 min Scan# 3230

Delta R.T. -0.01 min

Lab File: BE091365.D

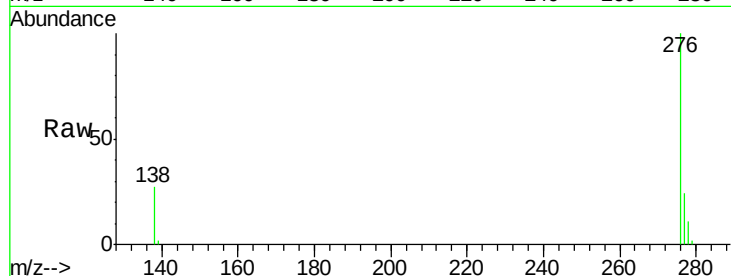
Acq: 15 Jan 2016 00:12

Instrument :

BNA_E

ClientSampleId :

PB87820BS



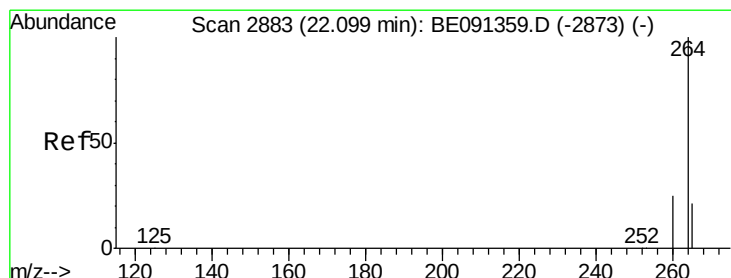
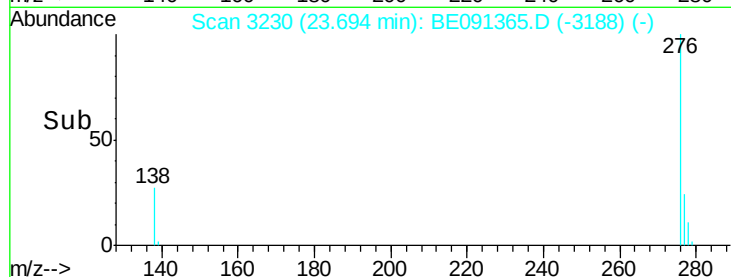
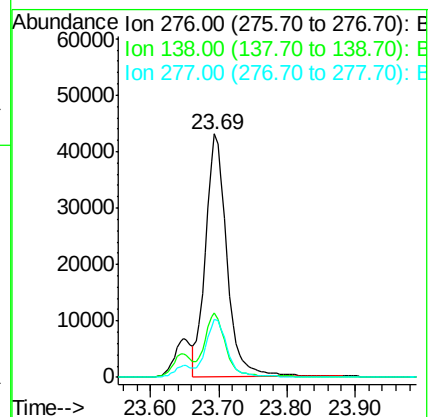
Tgt Ion:276 Resp: 93060

Ion Ratio Lower Upper

276 100

138 26.7 18.6 27.8

277 24.1 16.5 24.7



#24

Perylene-d12

Concen: 5.00 ng

RT: 22.10 min Scan# 2883

Delta R.T. -0.00 min

Lab File: BE091365.D

Acq: 15 Jan 2016 00:12

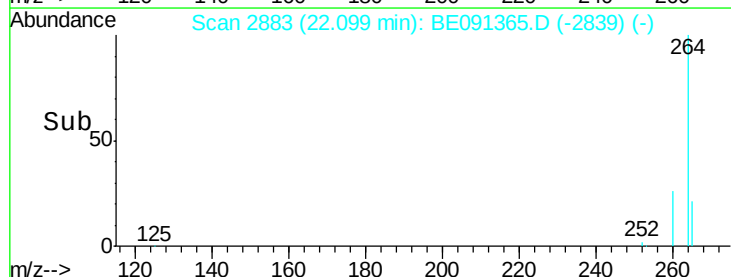
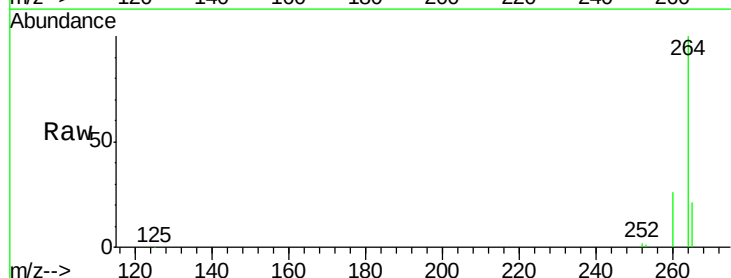
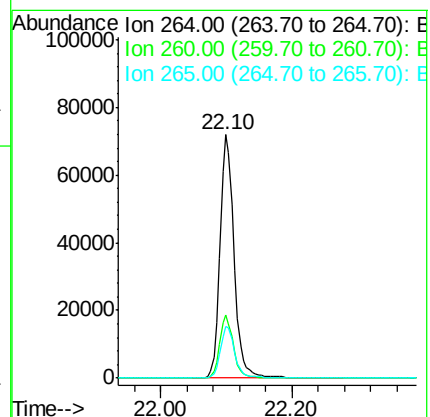
Tgt Ion:264 Resp: 106639

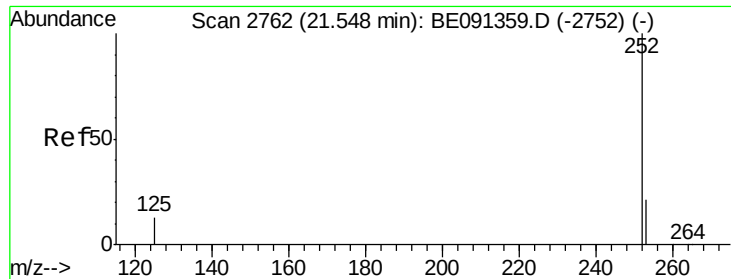
Ion Ratio Lower Upper

264 100

260 26.1 20.4 30.6

265 21.1 17.2 25.8





#25

Benzo(b)fluoranthene

Concen: 4.11 ng

RT: 21.55 min Scan# 2762

Delta R.T. -0.00 min

Lab File: BE091365.D

Acq: 15 Jan 2016 00:12

Instrument :

BNA_E

ClientSampleId :

PB87820BS

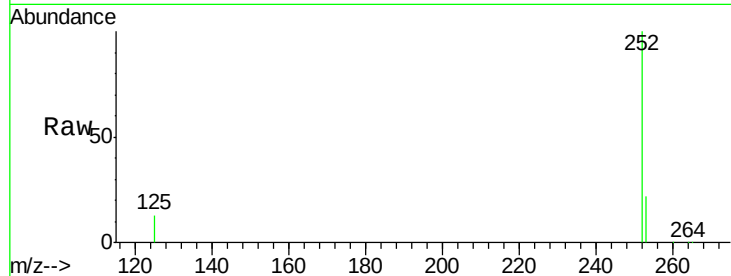
Tgt Ion:252 Resp: 109243

Ion Ratio Lower Upper

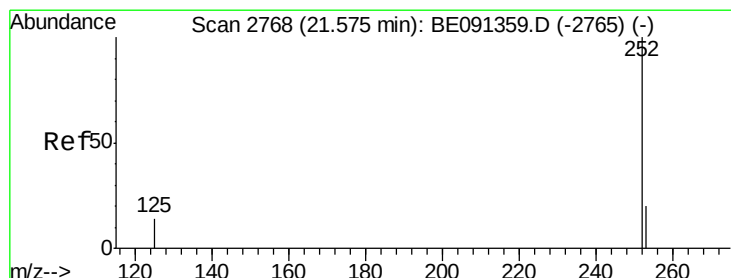
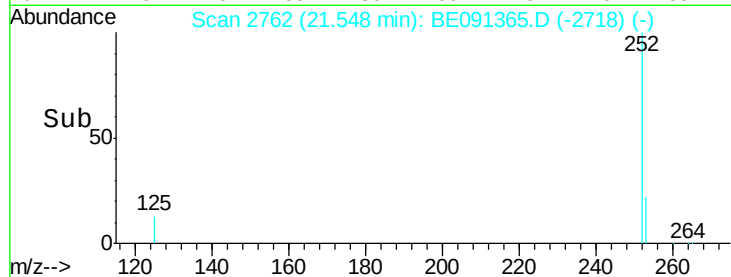
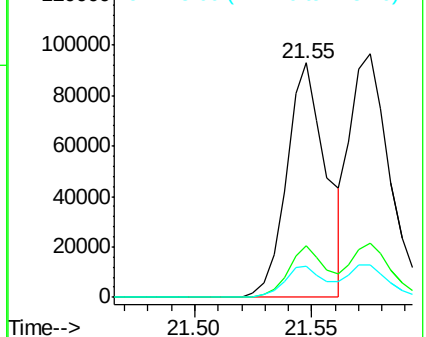
252 100

253 22.2 17.4 26.2

125 13.1 11.0 16.6



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



#26

Benzo(k)fluoranthene

Concen: 3.91 ng

RT: 21.57 min Scan# 2768

Delta R.T. -0.00 min

Lab File: BE091365.D

Acq: 15 Jan 2016 00:12

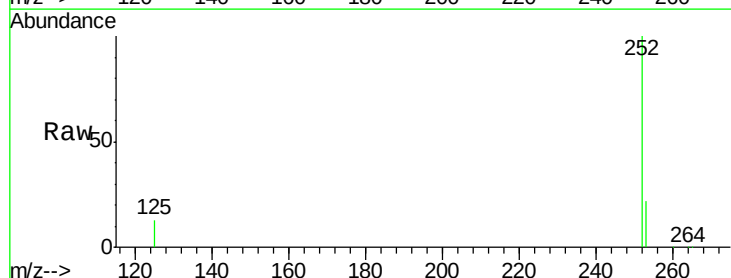
Tgt Ion:252 Resp: 117428

Ion Ratio Lower Upper

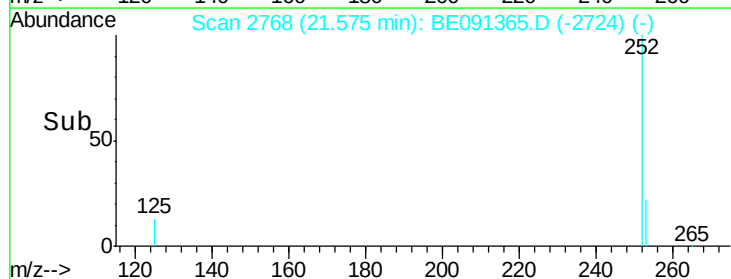
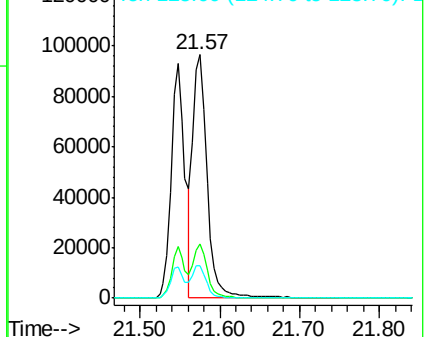
252 100

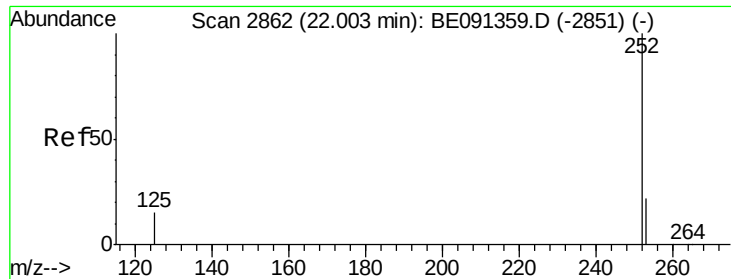
253 22.4 17.5 26.3

125 13.2 11.3 16.9



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





#27

Benzo(a)pyrene

Concen: 3.30 ng

RT: 22.00 min Scan# 2862

Delta R.T. -0.00 min

Lab File: BE091365.D

Acq: 15 Jan 2016 00:12

Instrument :

BNA_E

ClientSampleId :

PB87820BS

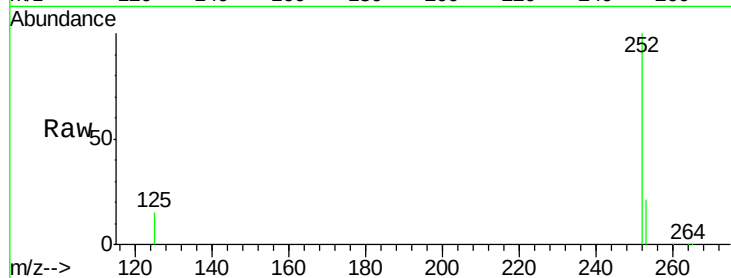
Tgt Ion:252 Resp: 84283

Ion Ratio Lower Upper

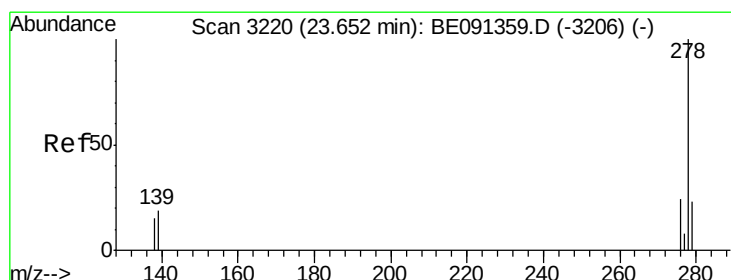
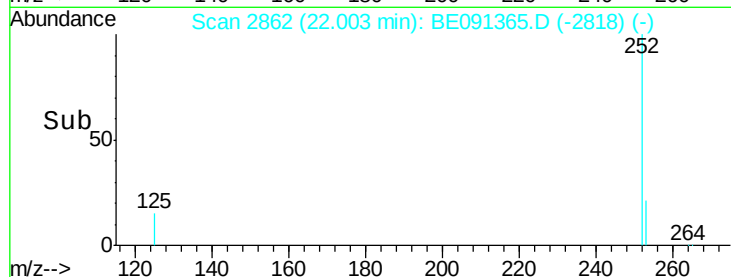
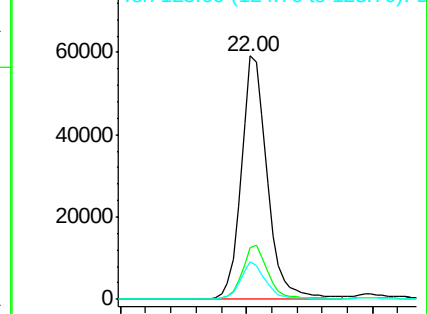
252 100

253 21.4 18.1 27.1

125 15.3 12.2 18.4



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: 3.03 ng

RT: 23.65 min Scan# 3220

Delta R.T. -0.00 min

Lab File: BE091365.D

Acq: 15 Jan 2016 00:12

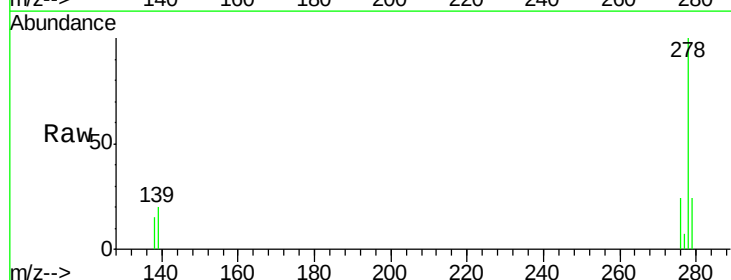
Tgt Ion:278 Resp: 68290

Ion Ratio Lower Upper

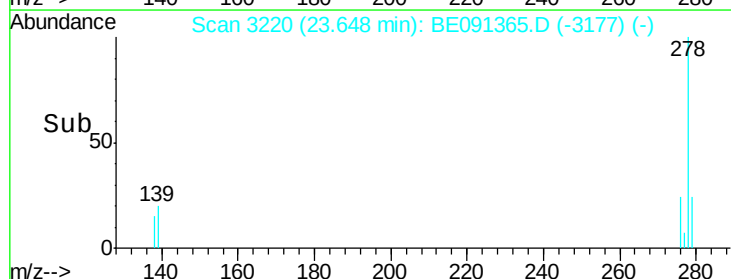
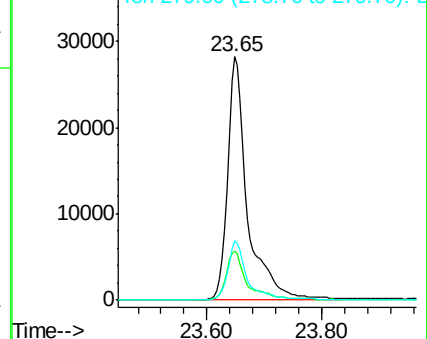
278 100

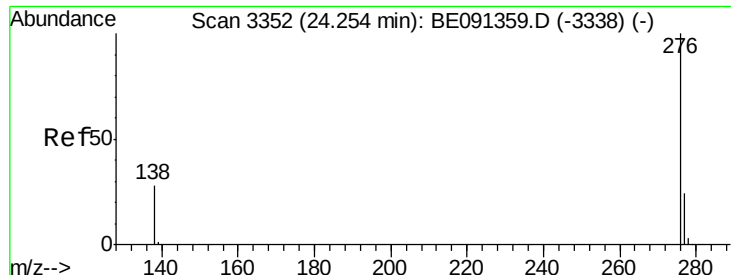
139 20.4 16.3 24.5

279 24.4 19.4 29.2



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: 3.30 ng

RT: 24.25 min Scan# 3352

Delta R.T. -0.00 min

Lab File: BE091365.D

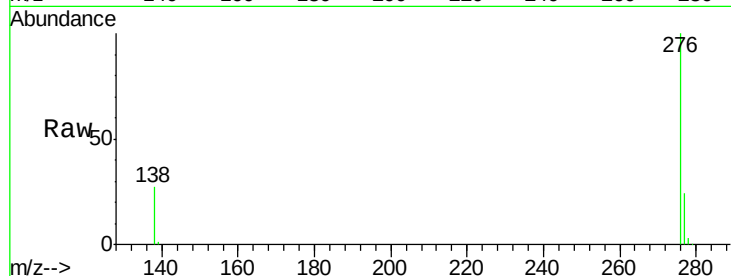
Acq: 15 Jan 2016 00:12

Instrument :

BNA_E

ClientSampleId :

PB87820BS



Tgt Ion: 276 Resp: 83074

Ion Ratio Lower Upper

276 100

277 23.9 19.8 29.6

138 27.3 23.3 34.9

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

