

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE011516\
 Data File : BE091373.D
 Acq On : 15 Jan 2016 10:17
 Operator : UM/IZ
 Sample : PB87820BL
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 PB87820BL

Quant Time: Jan 16 05:03:46 2016
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\8270-SIM-BE011416.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jan 15 15:14:26 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.87	152	22724	5.00	ng	0.00
4) Naphthalene-d8	9.55	136	94665	5.00	ng	0.00
8) Acenaphthene-d10	13.36	164	44752	5.00	ng	0.00
14) Phenanthrene-d10	16.08	188	131435	5.00	ng	0.00
18) Chrysene-d12	20.22	240	121278	5.00	ng	0.00
24) Perylene-d12	22.10	264	110214	5.00	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
2) 2-Fluorophenol	4.90	112	33669	8.79	ng	-0.04
3) Phenol-d6	6.54	99	47282	7.32	ng	-0.03
5) Nitrobenzene-d5	8.17	82	24886	3.71	ng	0.00
9) 2,4,6-Tribromophenol	14.89	330	6562	4.43	ng	0.00
10) 2-Fluorobiphenyl	12.02	172	50428	4.09	ng	0.00
20) Terphenyl-d14	18.62	244	72207	4.22	ng	0.00

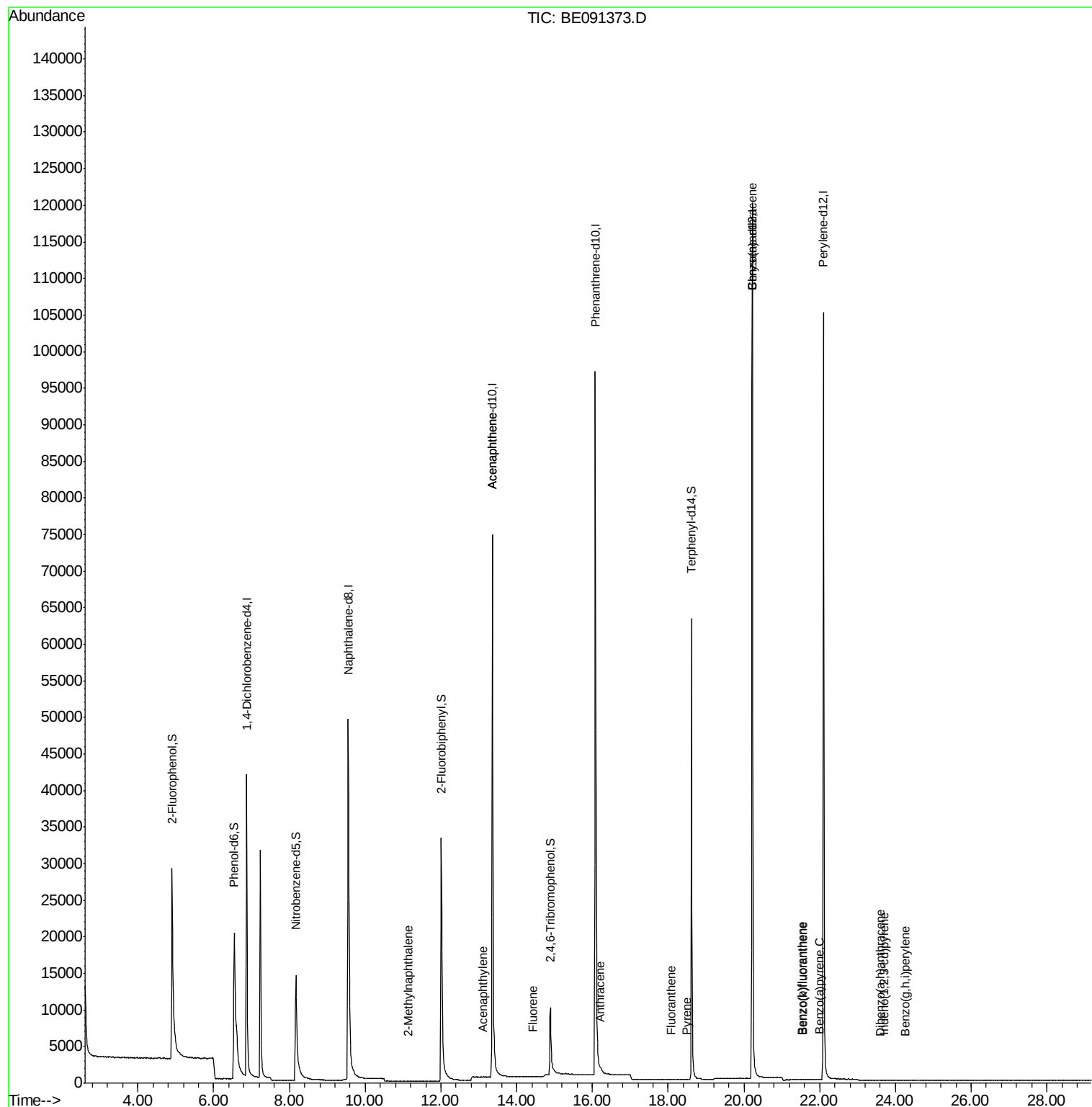
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
7) 2-Methylnaphthalene	11.15	142	2	0.37	ng	# 63
11) Acenaphthylene	13.12	152	46	0.27	ng	# 66
12) Acenaphthene	13.36	154	372	0.03	ng	# 1
13) Fluorene	14.42	166	6	0.14	ng	# 1
16) Anthracene	16.20	178	41	0.24	ng	# 65
17) Fluoranthene	18.08	202	6	0.27	ng	# 65
19) Pyrene	18.49	202	13	0.39	ng	# 62
21) Benzo(a)anthracene	20.22	228	552	0.40	ng	# 80
23) Indeno(1,2,3-cd)pyrene	23.71	276	12	0.35	ng	# 49
25) Benzo(b)fluoranthene	21.53	252	3	0.28	ng	# 1
26) Benzo(k)fluoranthene	21.57	252	36	0.26	ng	# 1
27) Benzo(a)pyrene	22.01	252	61	0.27	ng	# 1
28) Dibenzo(a,h)anthracene	23.61	278	4	0.44	ng	# 1
29) Benzo(g,h,i)perylene	24.25	276	4	0.34	ng	# 1

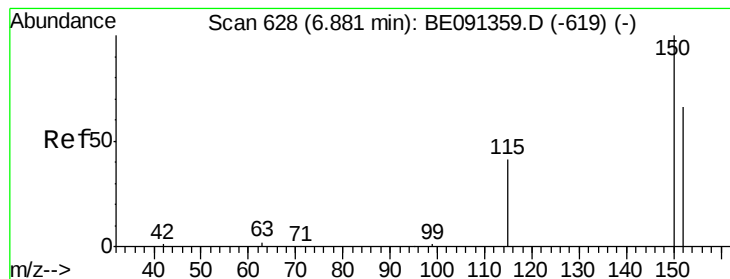
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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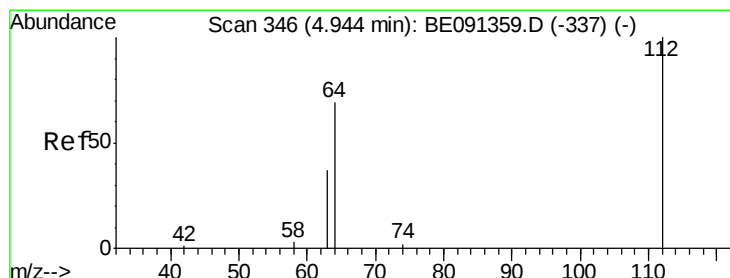
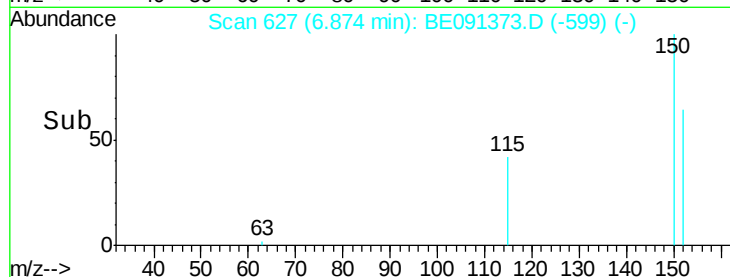
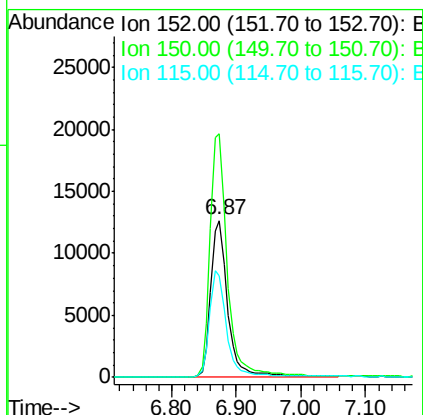
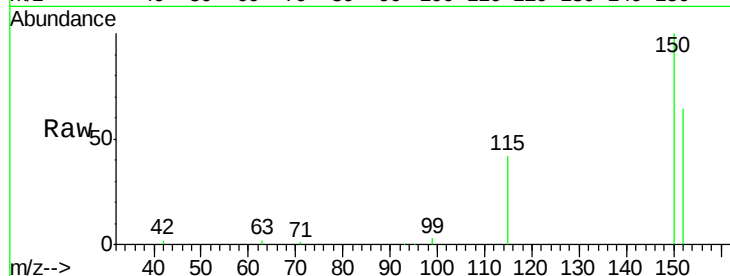


#1

1,4-Dichlorobenzene-d4
Concen: 5.00 ng
RT: 6.87 min Scan# 627
Delta R.T. -0.01 min
Lab File: BE091373.D
Acq: 15 Jan 2016 10:17

Instrument :
BNA_E
ClientSampleId :
PB87820BL

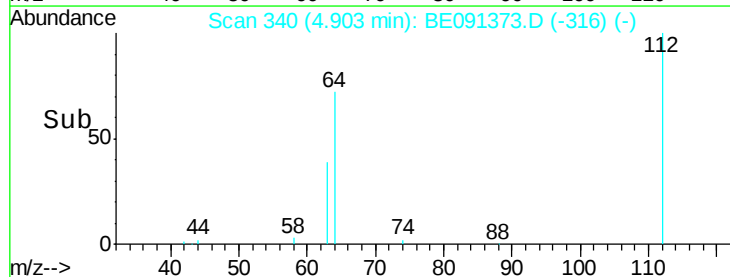
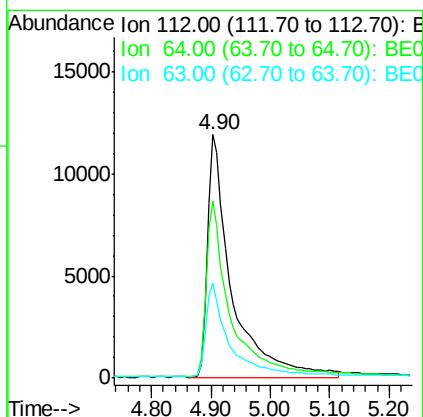
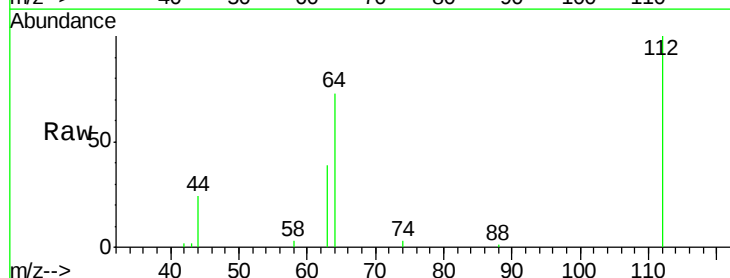
Tgt Ion:152 Resp: 22724
Ion Ratio Lower Upper
152 100
150 155.2 121.6 182.4
115 64.9 50.6 75.8

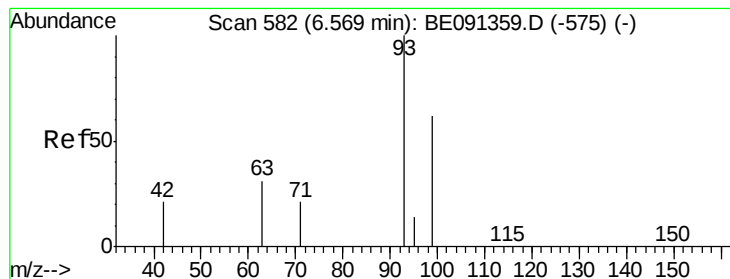


#2

2-Fluorophenol
Concen: 8.79 ng
RT: 4.90 min Scan# 340
Delta R.T. -0.04 min
Lab File: BE091373.D
Acq: 15 Jan 2016 10:17

Tgt Ion:112 Resp: 33669
Ion Ratio Lower Upper
112 100
64 72.1 57.4 86.0
63 37.9 32.2 48.2





#3

Phenol-d6

Concen: 7.32 ng

RT: 6.54 min Scan# 578

Delta R.T. -0.03 min

Lab File: BE091373.D

Acq: 15 Jan 2016 10:17

Instrument :

BNA_E

ClientSampleId :

PB87820BL

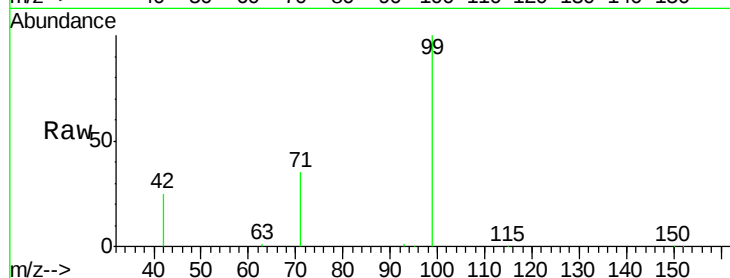
Tgt Ion: 99 Resp: 47282

Ion Ratio Lower Upper

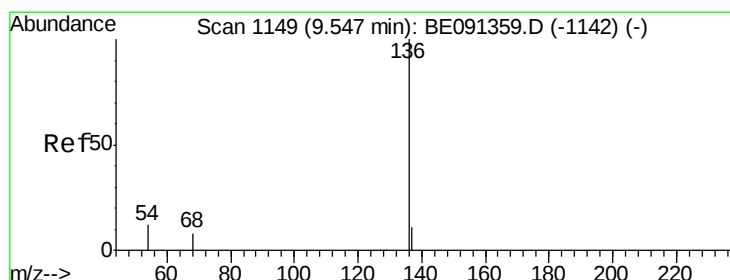
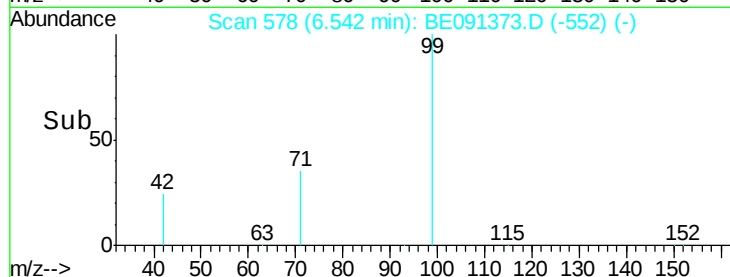
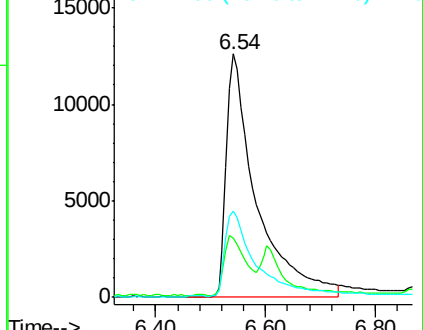
99 100

42 17.6 22.9 34.3#

71 36.4 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# 1150

Delta R.T. 0.01 min

Lab File: BE091373.D

Acq: 15 Jan 2016 10:17

Tgt Ion: 136 Resp: 94665

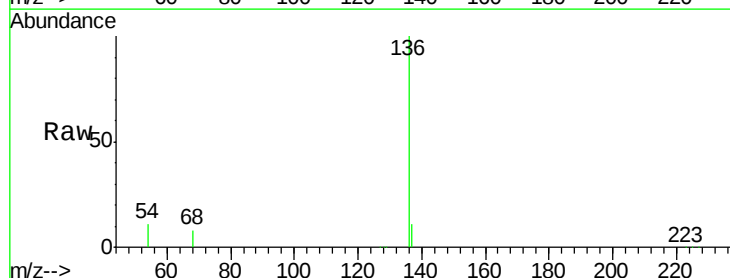
Ion Ratio Lower Upper

136 100

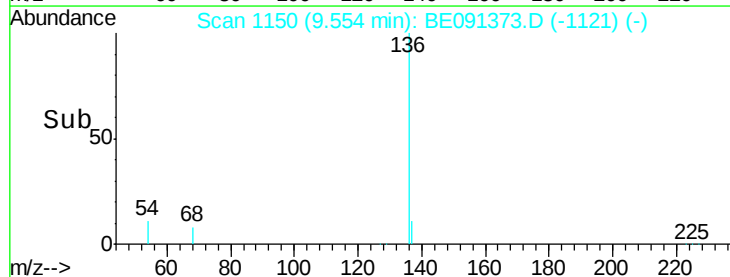
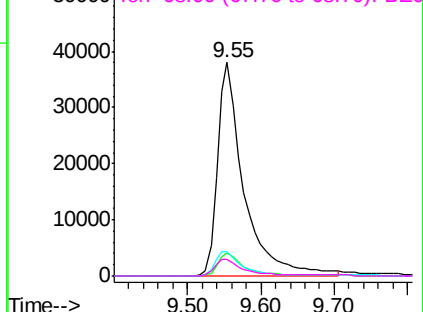
137 11.1 8.7 13.1

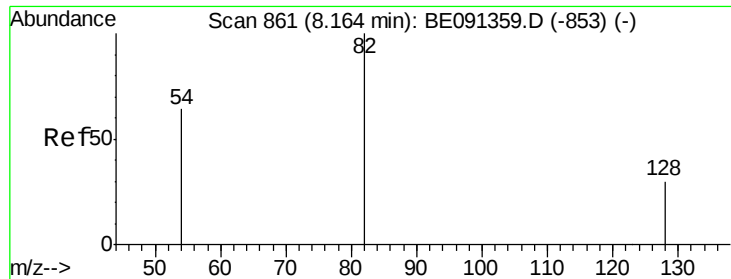
54 11.2 9.8 14.6

68 7.8 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: 3.71 ng

RT: 8.17 min Scan# 863

Delta R.T. 0.01 min

Lab File: BE091373.D

Acq: 15 Jan 2016 10:17

Instrument :

BNA_E

ClientSampleId :

PB87820BL

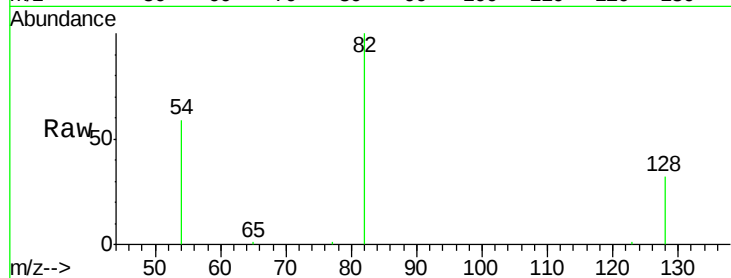
Tgt Ion: 82 Resp: 24886

Ion Ratio Lower Upper

82 100

128 31.5 24.6 36.8

54 59.4 52.7 79.1



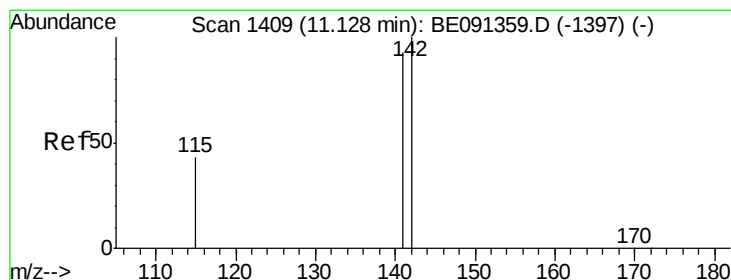
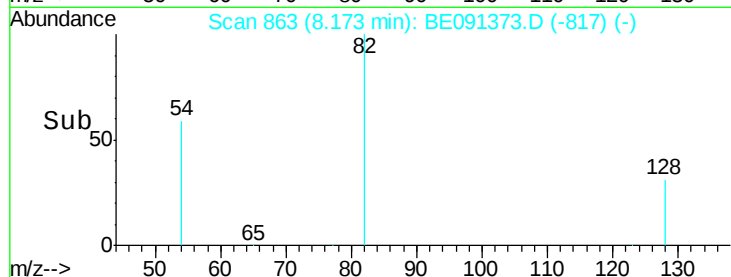
Abundance Ion 82.00 (81.70 to 82.70): BE091373.D (-817) (-)

Ion 128.00 (127.70 to 128.70): BE091373.D (-817) (-)

Ion 54.00 (53.70 to 54.70): BE091373.D (-817) (-)

8.17

Time--> 8.00 8.10 8.20 8.30 8.40



#7

2-Methylnaphthalene

Concen: 0.37 ng

RT: 11.15 min Scan# 1413

Delta R.T. 0.02 min

Lab File: BE091373.D

Acq: 15 Jan 2016 10:17

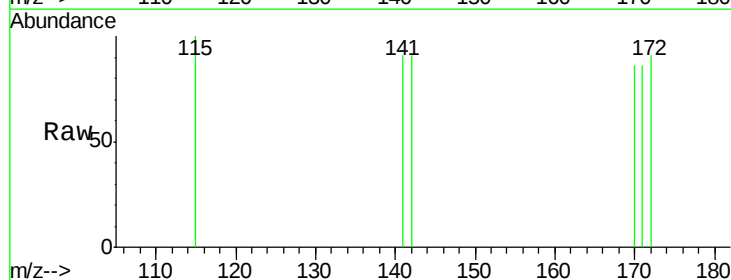
Tgt Ion: 142 Resp: 2

Ion Ratio Lower Upper

142 100

141 100.0 74.5 111.7

115 109.6 35.2 52.8#



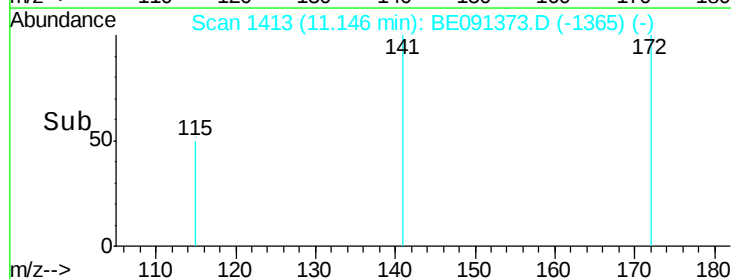
Abundance Ion 142.00 (141.70 to 142.70): BE091373.D (-1365) (-)

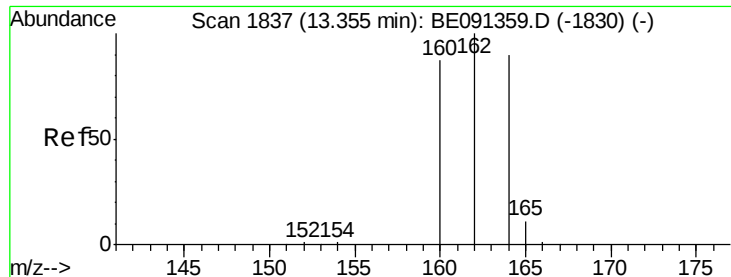
Ion 141.00 (140.70 to 141.70): BE091373.D (-1365) (-)

Ion 115.00 (114.70 to 115.70): BE091373.D (-1365) (-)

11.15

Time--> 11.13 11.14 11.15 11.16





#8

Acenaphthene-d10

Concen: 5.00 ng

RT: 13.36 min Scan# 1838

Delta R.T. 0.01 min

Lab File: BE091373.D

Acq: 15 Jan 2016 10:17

Instrument :

BNA_E

ClientSampleId :

PB87820BL

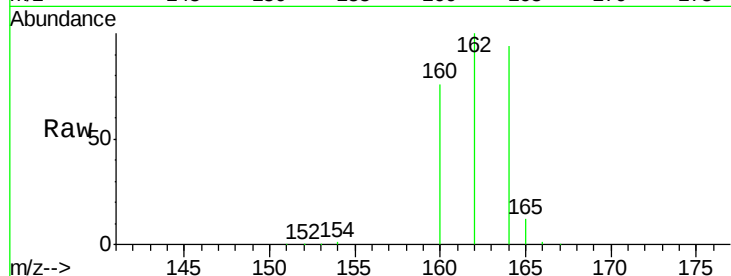
Tgt Ion:164 Resp: 44752

Ion Ratio Lower Upper

164 100

162 106.0 88.5 132.7

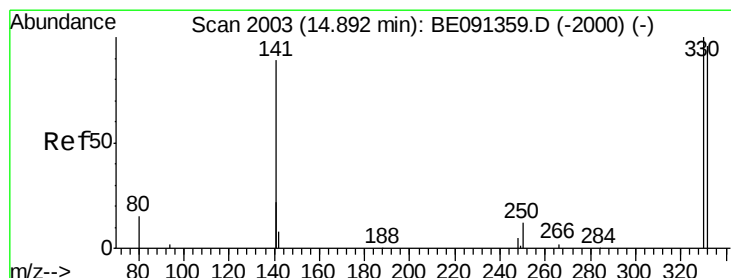
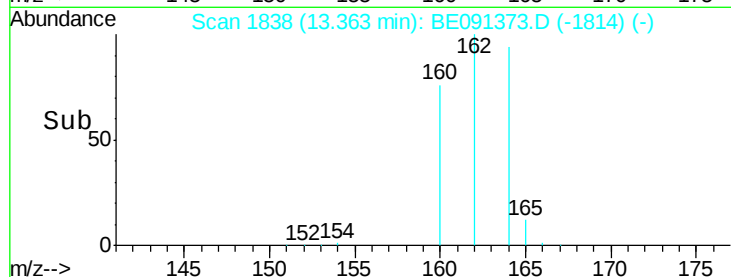
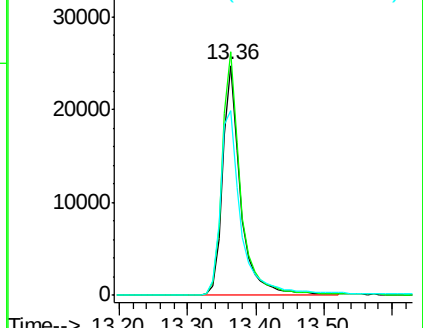
160 80.3 76.7 115.1



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: 4.43 ng

RT: 14.89 min Scan# 2003

Delta R.T. 0.00 min

Lab File: BE091373.D

Acq: 15 Jan 2016 10:17

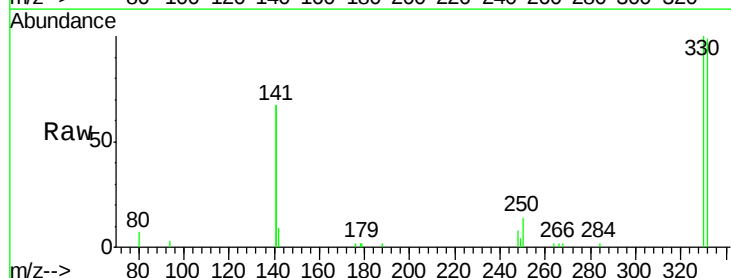
Tgt Ion:330 Resp: 6562

Ion Ratio Lower Upper

330 100

332 97.1 78.6 118.0

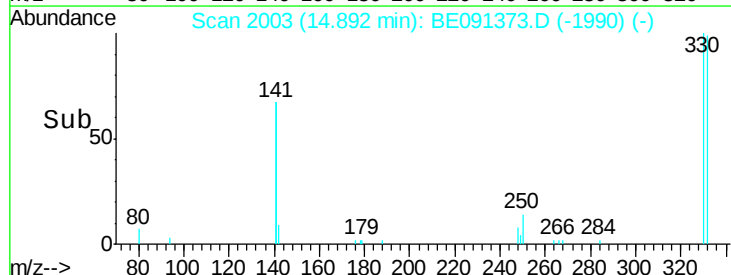
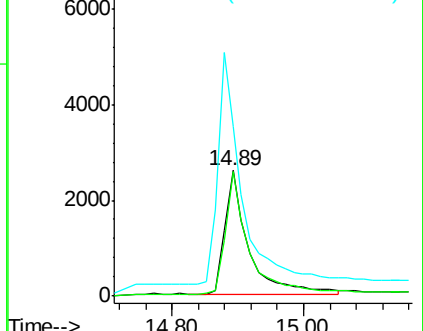
141 190.8 147.8 221.8

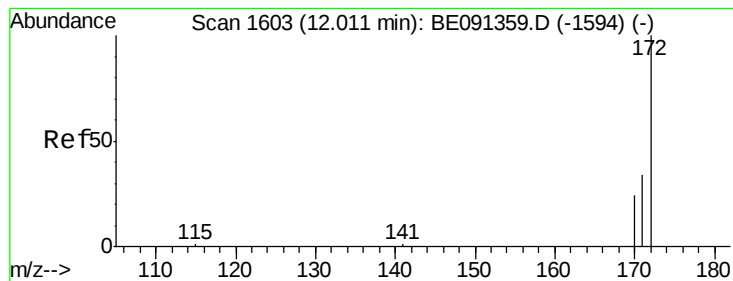


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E





#10

2-Fluorobiphenyl

Concen: 4.09 ng

RT: 12.02 min Scan# 1604

Delta R.T. 0.00 min

Lab File: BE091373.D

Acq: 15 Jan 2016 10:17

Instrument :

BNA_E

ClientSampled :

PB87820BL

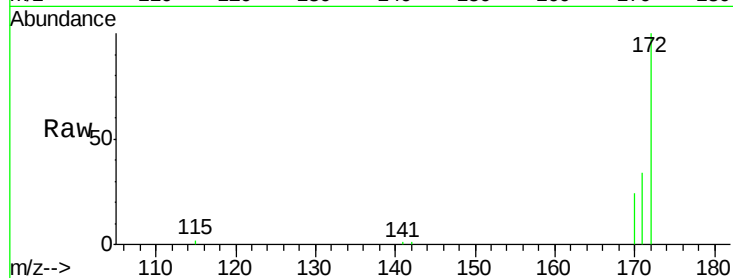
Tgt Ion:172 Resp: 50428

Ion Ratio Lower Upper

172 100

171 34.1 27.3 40.9

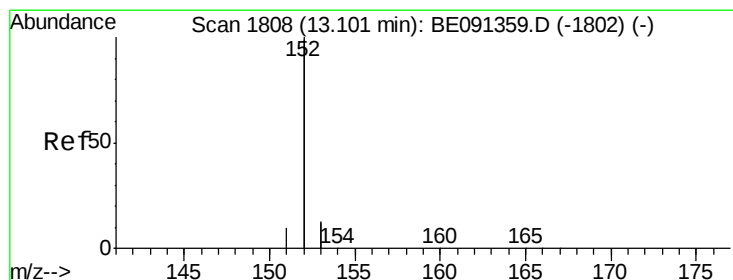
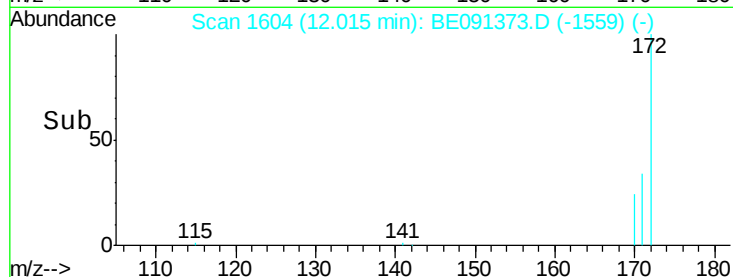
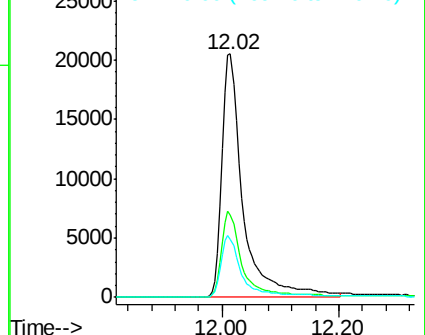
170 24.0 19.8 29.6



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: 0.27 ng

RT: 13.12 min Scan# 1810

Delta R.T. 0.02 min

Lab File: BE091373.D

Acq: 15 Jan 2016 10:17

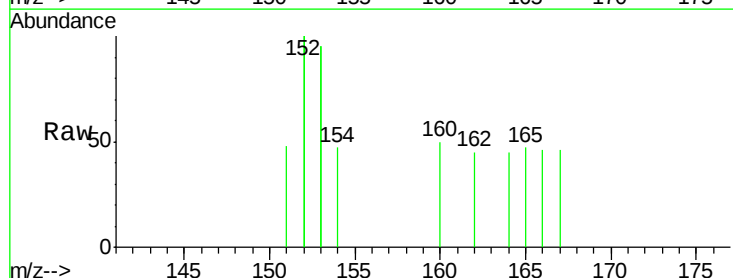
Tgt Ion:152 Resp: 46

Ion Ratio Lower Upper

152 100

151 17.4 3.8 5.8#

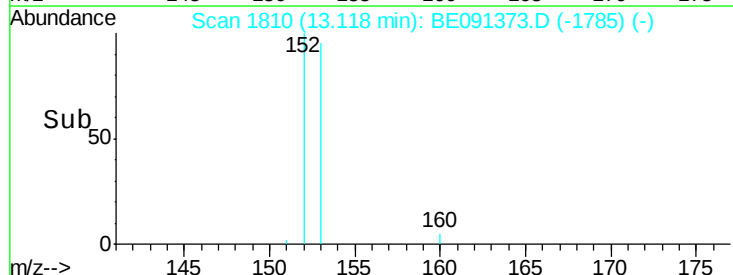
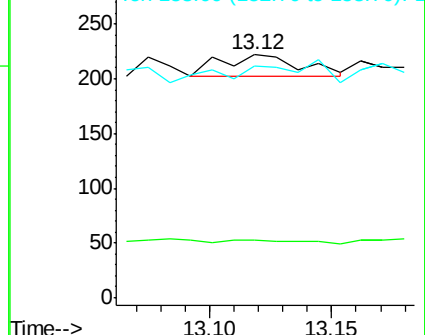
153 0.0 10.1 15.1#

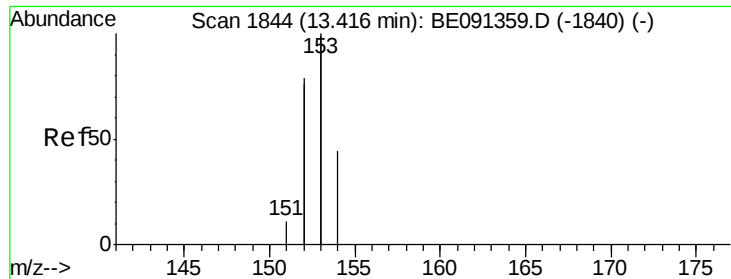


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





#12

Acenaphthene

Concen: 0.03 ng

RT: 13.36 min Scan# 1838

Delta R.T. -0.05 min

Lab File: BE091373.D

Acq: 15 Jan 2016 10:17

Instrument :

BNA_E

ClientSampleId :

PB87820BL

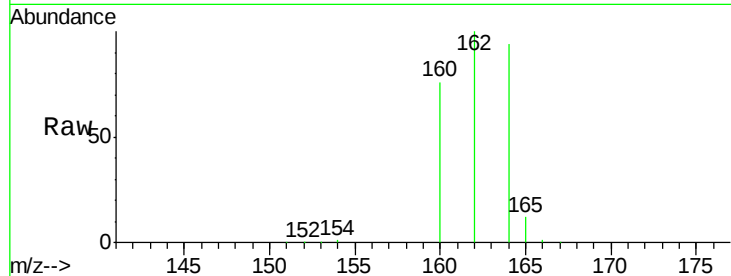
Tgt Ion:154 Resp: 372

Ion Ratio Lower Upper

154 100

153 32.8 370.2 555.4#

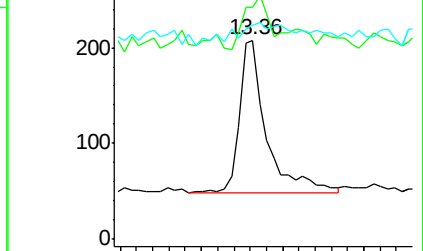
152 29.6 310.5 465.7#



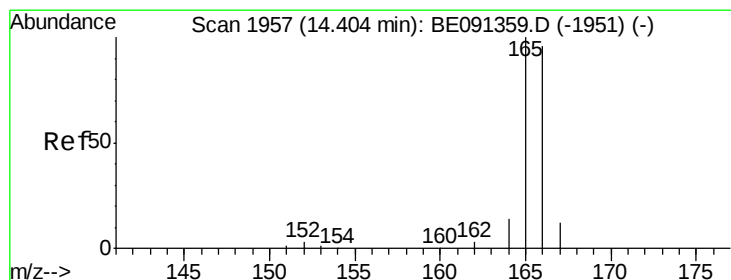
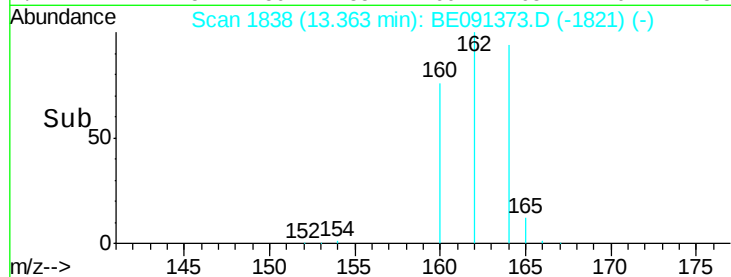
Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E



Time--> 13.20 13.30 13.40 13.50



#13

Fluorene

Concen: 0.14 ng

RT: 14.42 min Scan# 1959

Delta R.T. 0.02 min

Lab File: BE091373.D

Acq: 15 Jan 2016 10:17

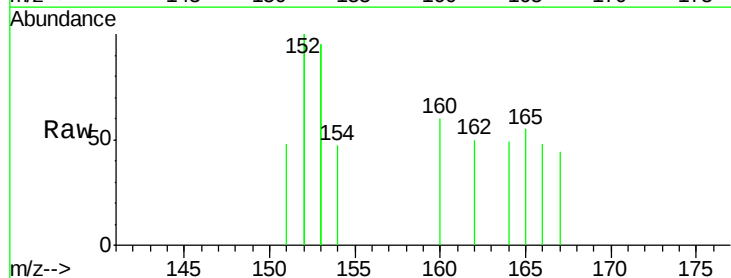
Tgt Ion:166 Resp: 6

Ion Ratio Lower Upper

166 100

165 316.7 83.0 124.6#

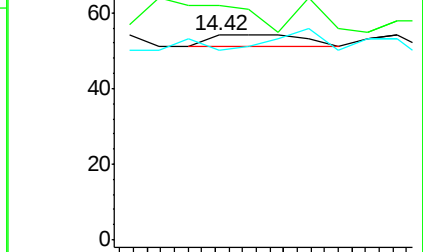
167 50.0 11.1 16.7#



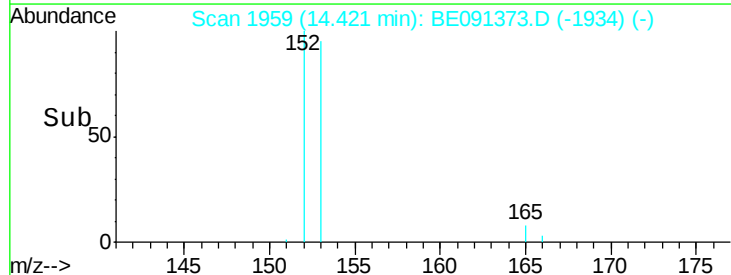
Abundance Ion 166.00 (165.70 to 166.70): E

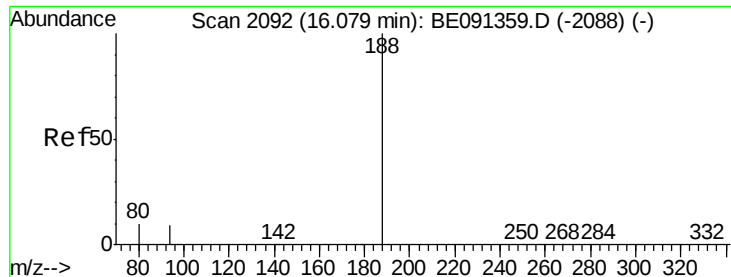
Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E



Time--> 14.40 14.42 14.44 14.46

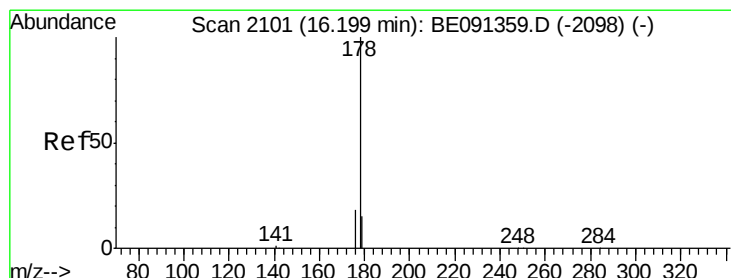
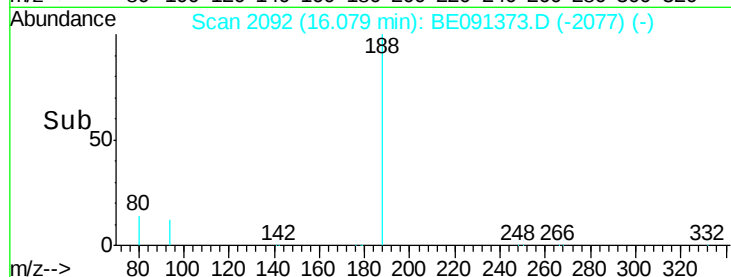
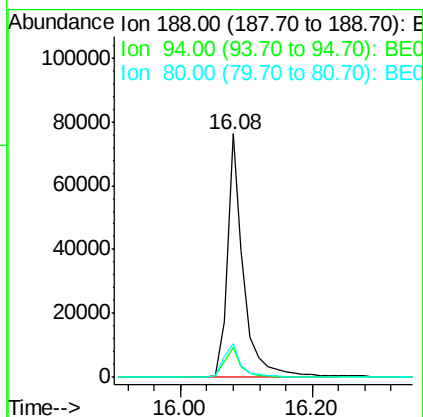
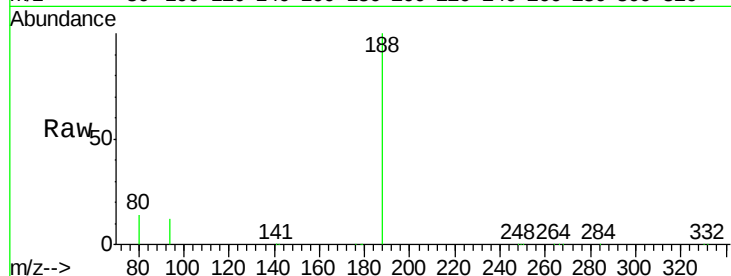




#14
Phenanthrene-d10
Concen: 5.00 ng
RT: 16.08 min Scan# 2092
Delta R.T. -0.00 min
Lab File: BE091373.D
Acq: 15 Jan 2016 10:17

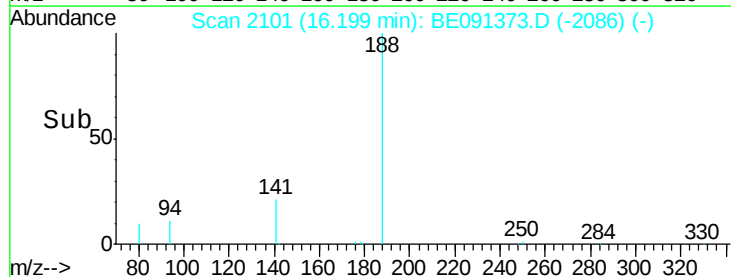
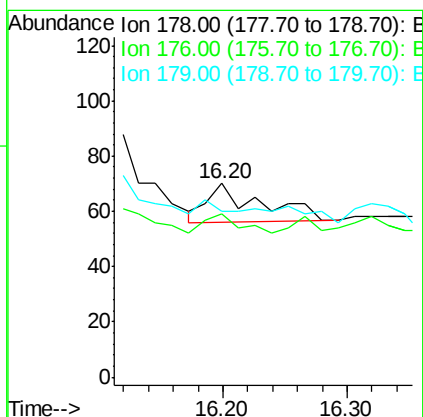
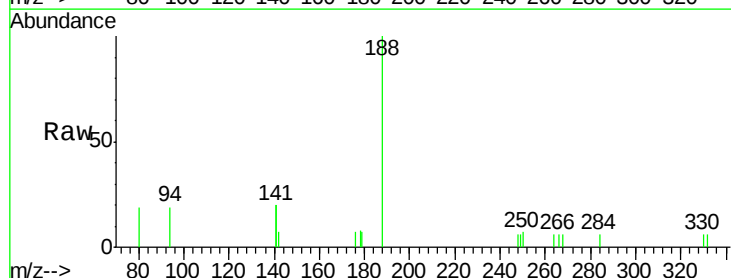
Instrument :
BNA_E
ClientSampleId :
PB87820BL

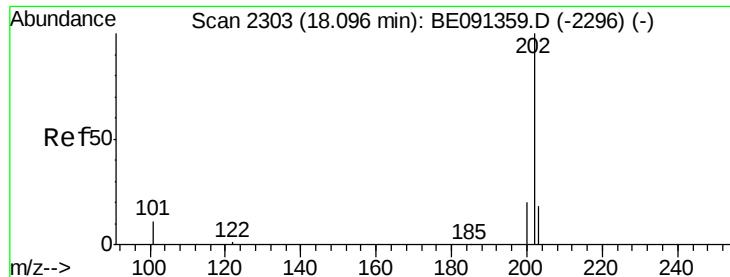
Tgt Ion:188 Resp: 131435
Ion Ratio Lower Upper
188 100
94 12.3 7.5 11.3#
80 13.7 8.2 12.2#



#16
Anthracene
Concen: 0.24 ng
RT: 16.20 min Scan# 2101
Delta R.T. 0.00 min
Lab File: BE091373.D
Acq: 15 Jan 2016 10:17

Tgt Ion:178 Resp: 41
Ion Ratio Lower Upper
178 100
176 34.1 15.0 22.6#
179 0.0 12.4 18.6#

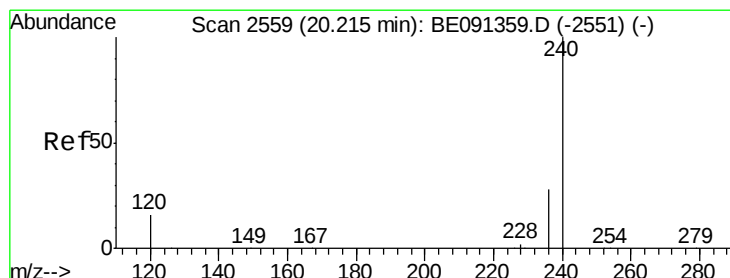
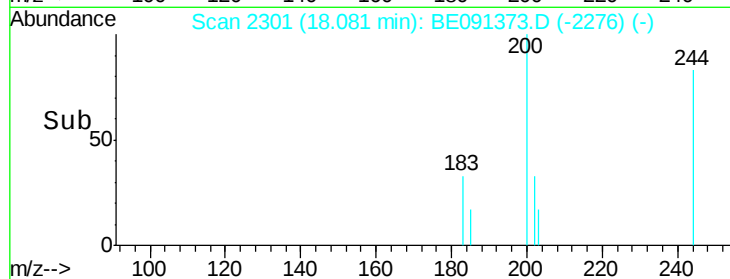
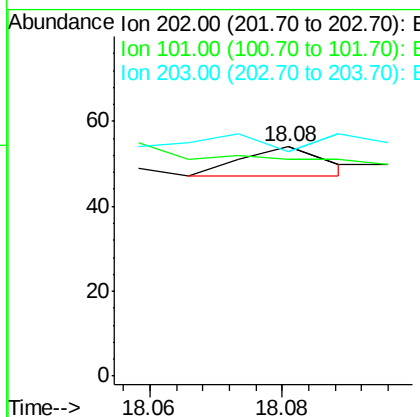
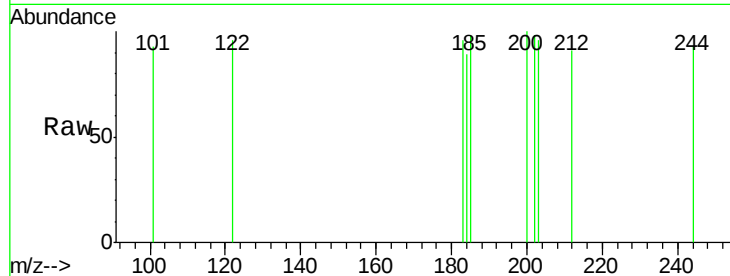




#17
 Fluoranthene
 Concen: 0.27 ng
 RT: 18.08 min Scan# 2301
 Delta R.T. -0.02 min
 Lab File: BE091373.D
 Acq: 15 Jan 2016 10:17

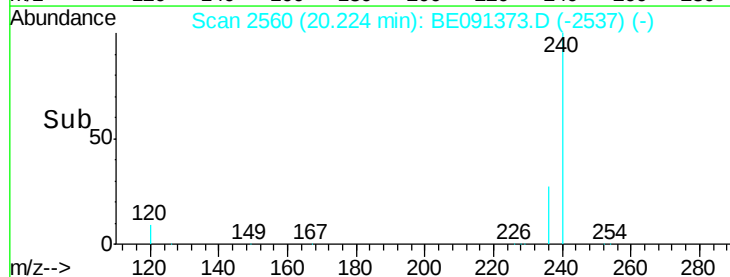
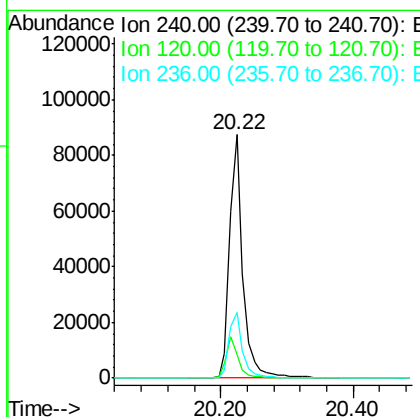
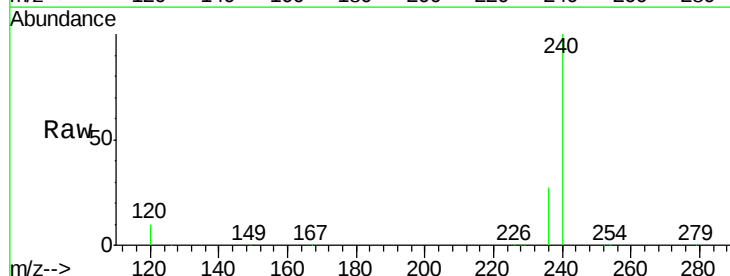
Instrument :
 BNA_E
 ClientSampleId :
 PB87820BL

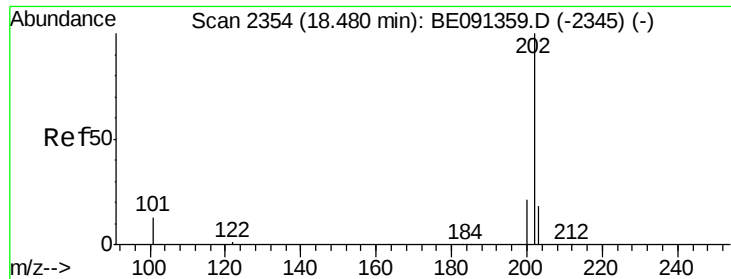
Tgt Ion: 202 Resp: 6
 Ion Ratio Lower Upper
 202 100
 101 0.0 11.0 16.4#
 203 33.3 13.9 20.9#



#18
 Chrysene-d12
 Concen: 5.00 ng
 RT: 20.22 min Scan# 2560
 Delta R.T. 0.01 min
 Lab File: BE091373.D
 Acq: 15 Jan 2016 10:17

Tgt Ion: 240 Resp: 121278
 Ion Ratio Lower Upper
 240 100
 120 9.5 12.6 19.0#
 236 26.8 22.7 34.1





#19

Pyrene

Concen: 0.39 ng

RT: 18.49 min Scan# 2355

Delta R.T. 0.01 min

Lab File: BE091373.D

Acq: 15 Jan 2016 10:17

Instrument :

BNA_E

ClientSampleId :

PB87820BL

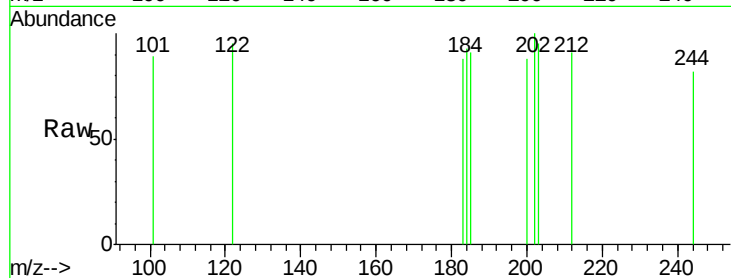
Tgt Ion:202 Resp: 13

Ion Ratio Lower Upper

202 100

200 0.0 17.2 25.8#

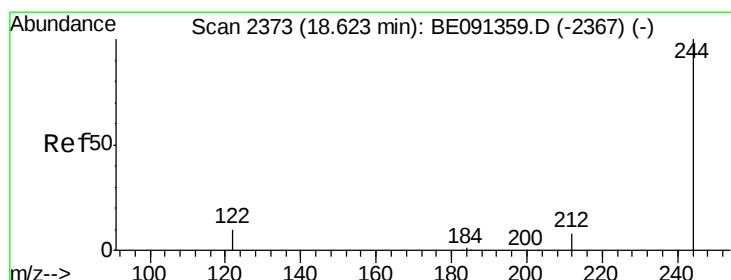
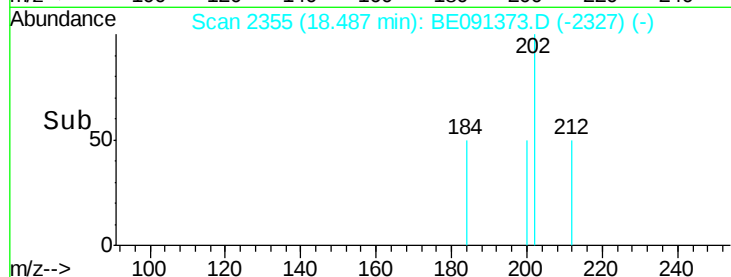
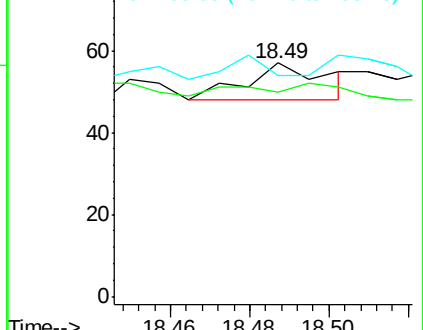
203 30.8 14.2 21.4#



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: 4.22 ng

RT: 18.62 min Scan# 2372

Delta R.T. -0.01 min

Lab File: BE091373.D

Acq: 15 Jan 2016 10:17

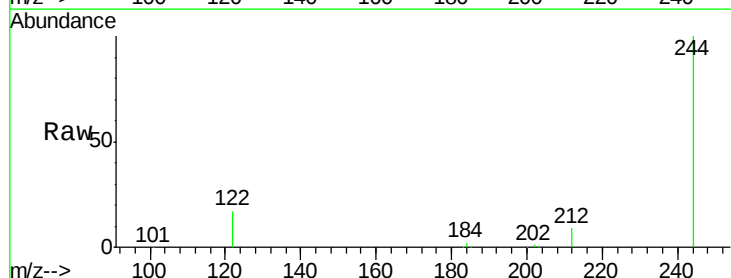
Tgt Ion:244 Resp: 72207

Ion Ratio Lower Upper

244 100

212 8.8 7.0 10.4

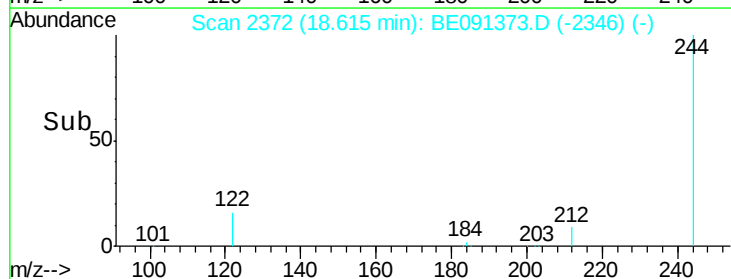
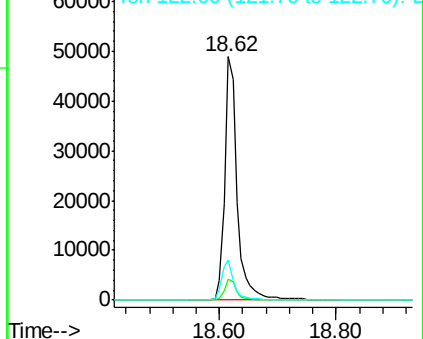
122 16.5 8.5 12.7#

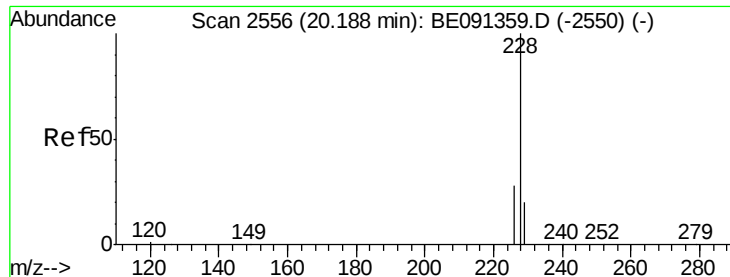


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#21

Benzo(a)anthracene

Concen: 0.40 ng

RT: 20.22 min Scan# 2560

Delta R.T. 0.04 min

Lab File: BE091373.D

Acq: 15 Jan 2016 10:17

Instrument :

BNA_E

ClientSampleId :

PB87820BL

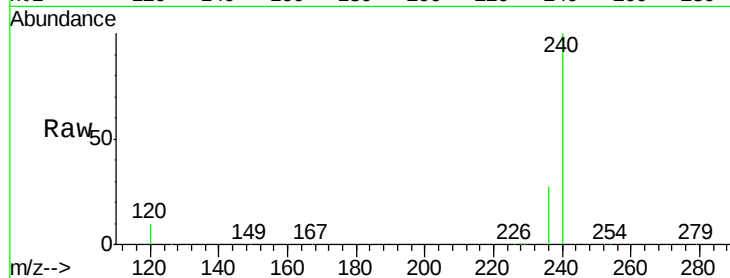
Tgt Ion: 228 Resp: 552

Ion Ratio Lower Upper

228 100

226 28.4 22.5 33.7

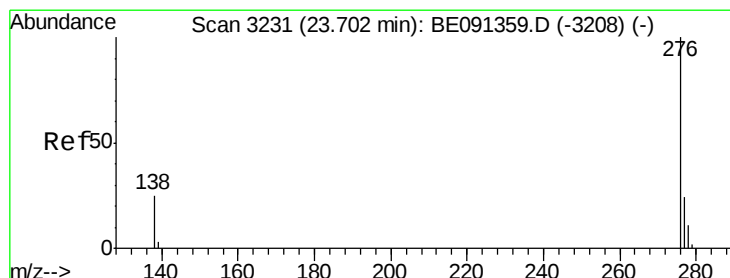
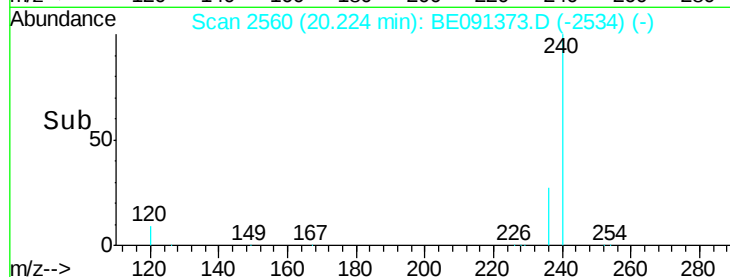
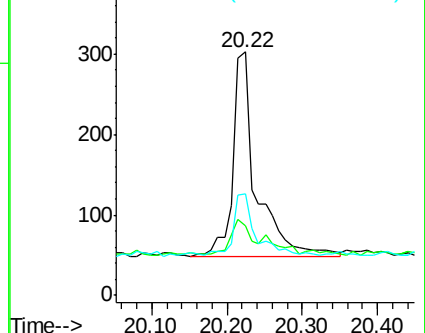
229 41.6 16.2 24.4#



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: 0.35 ng

RT: 23.71 min Scan# 3232

Delta R.T. 0.00 min

Lab File: BE091373.D

Acq: 15 Jan 2016 10:17

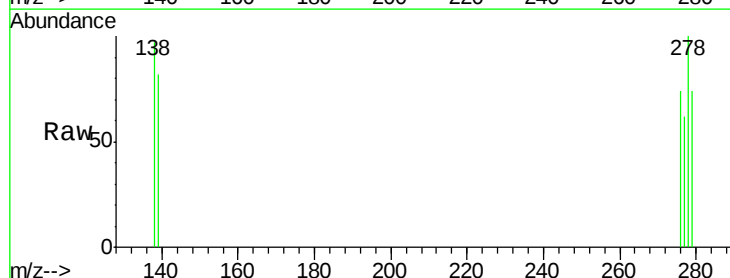
Tgt Ion: 276 Resp: 12

Ion Ratio Lower Upper

276 100

138 58.3 18.6 27.8#

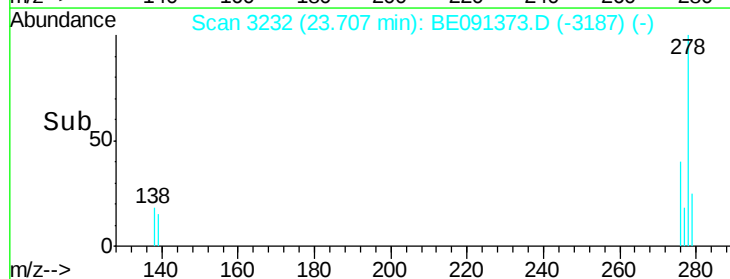
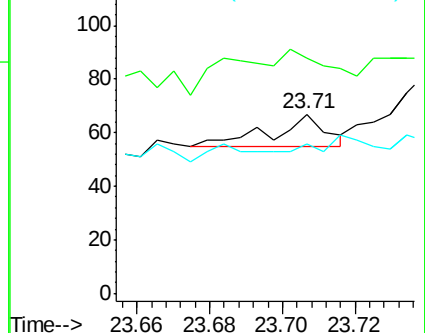
277 33.3 16.5 24.7#

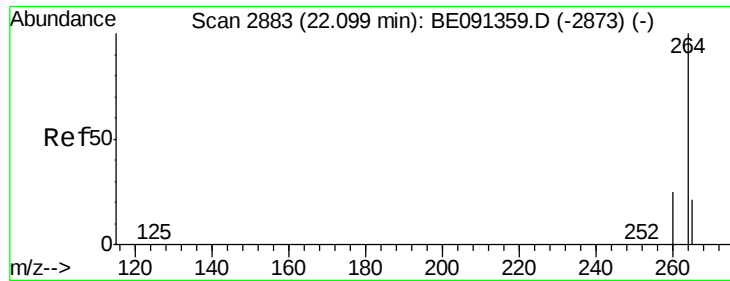


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

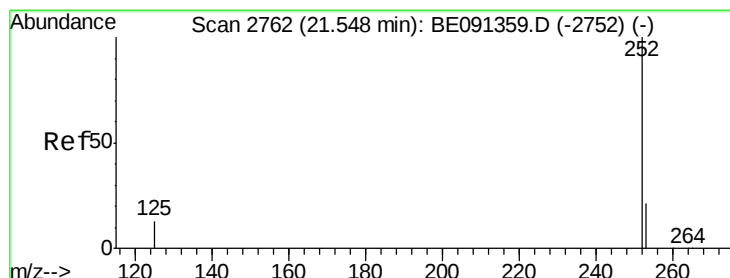
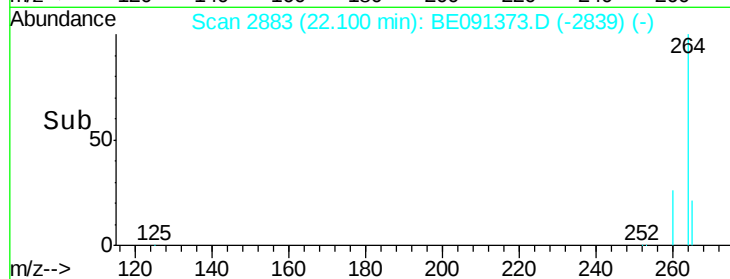
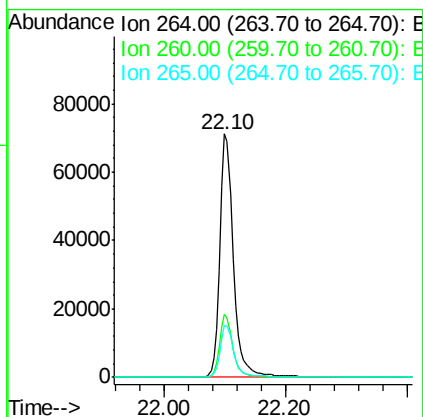
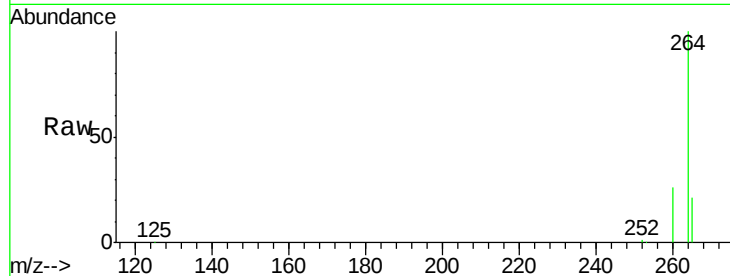




#24
 Perylene-d12
 Concen: 5.00 ng
 RT: 22.10 min Scan# 2883
 Delta R.T. 0.00 min
 Lab File: BE091373.D
 Acq: 15 Jan 2016 10:17

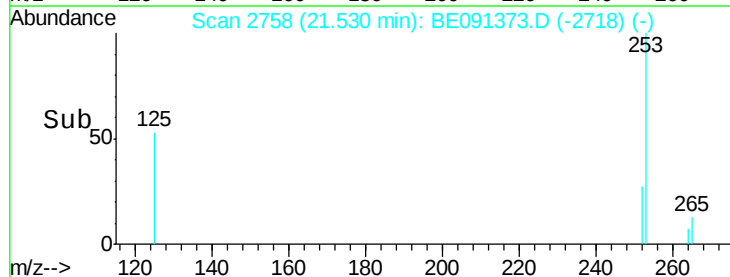
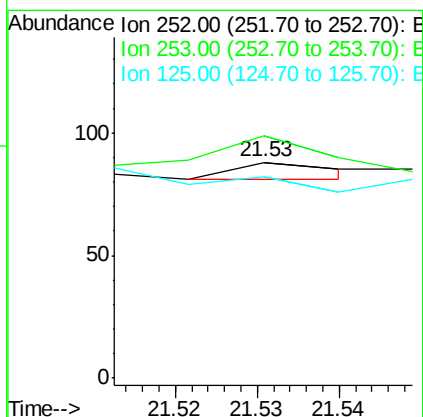
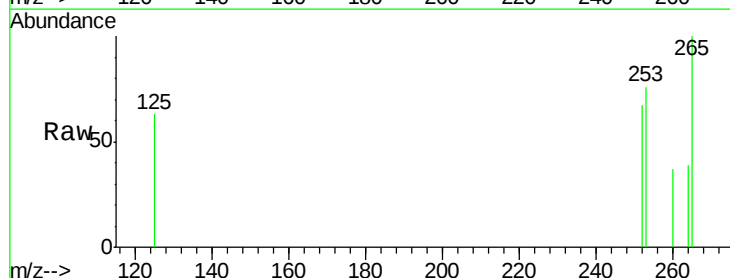
Instrument :
 BNA_E
 ClientSampleId :
 PB87820BL

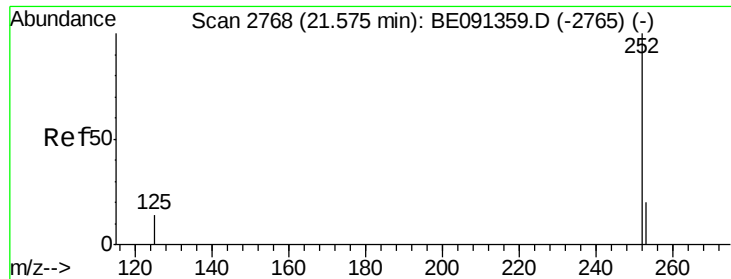
Tgt Ion:264 Resp: 110214
 Ion Ratio Lower Upper
 264 100
 260 25.8 20.4 30.6
 265 21.2 17.2 25.8



#25
 Benzo(b)fluoranthene
 Concen: 0.28 ng
 RT: 21.53 min Scan# 2758
 Delta R.T. -0.02 min
 Lab File: BE091373.D
 Acq: 15 Jan 2016 10:17

Tgt Ion:252 Resp: 3
 Ion Ratio Lower Upper
 252 100
 253 112.5 17.4 26.2#
 125 93.2 11.0 16.6#

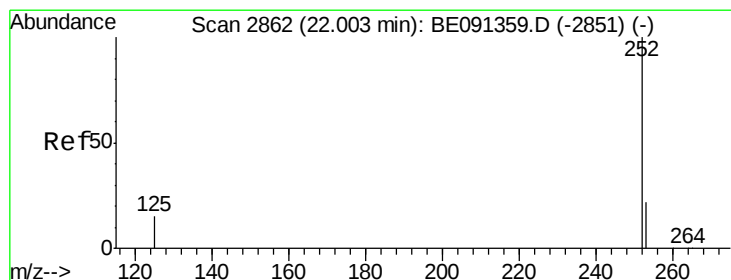
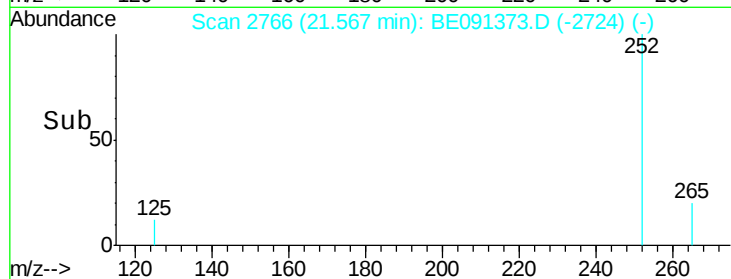
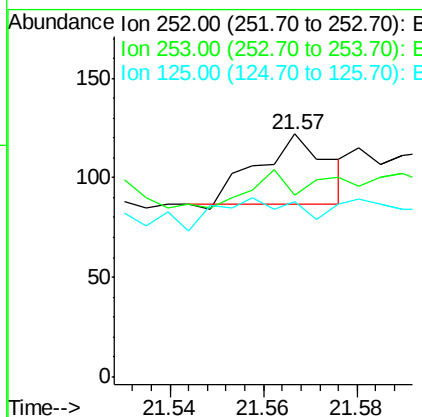
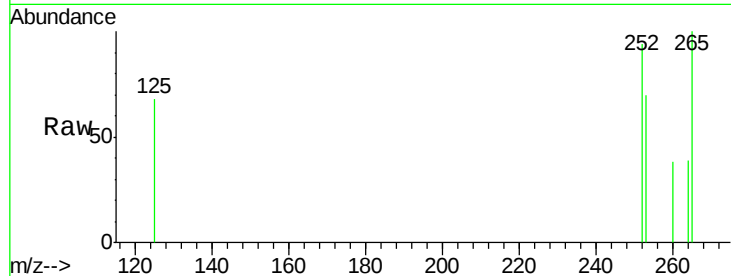




#26
Benzo(k)fluoranthene
Concen: 0.26 ng
RT: 21.57 min Scan# 2766
Delta R.T. -0.01 min
Lab File: BE091373.D
Acq: 15 Jan 2016 10:17

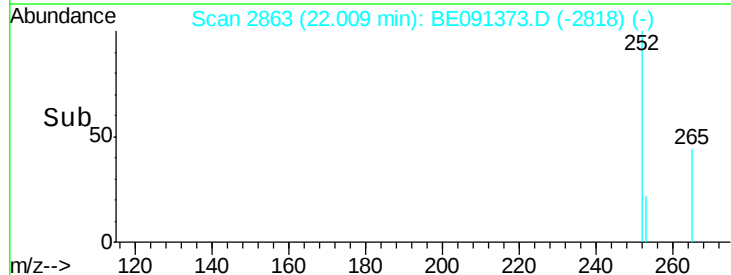
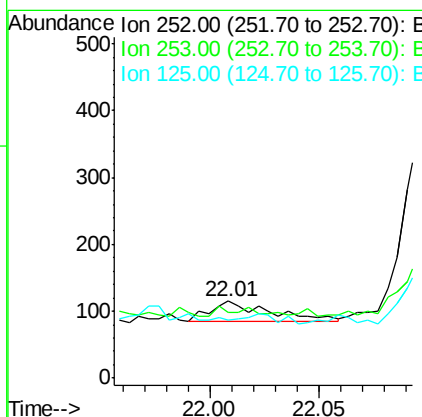
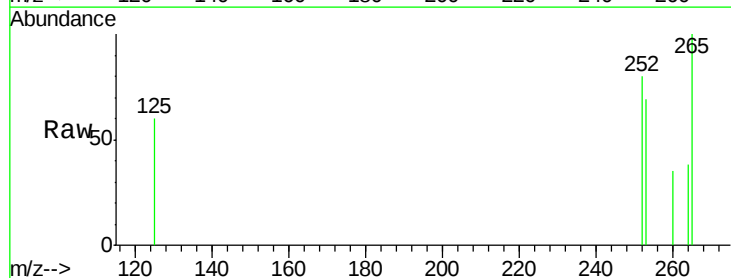
Instrument :
BNA_E
ClientSampleId :
PB87820BL

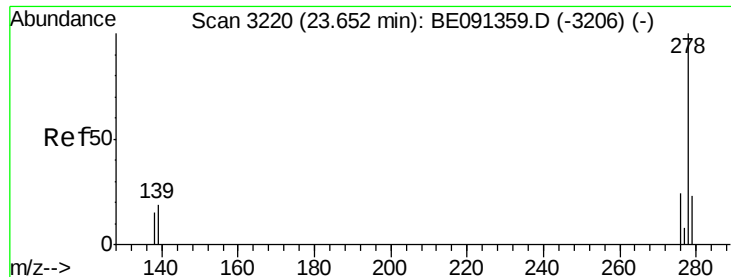
Tgt Ion: 252 Resp: 36
Ion Ratio Lower Upper
252 100
253 74.6 17.5 26.3#
125 72.1 11.3 16.9#



#27
Benzo(a)pyrene
Concen: 0.27 ng
RT: 22.01 min Scan# 2863
Delta R.T. 0.01 min
Lab File: BE091373.D
Acq: 15 Jan 2016 10:17

Tgt Ion: 252 Resp: 61
Ion Ratio Lower Upper
252 100
253 86.1 18.1 27.1#
125 74.8 12.2 18.4#





#28

Dibenzo(a,h)anthracene

Concen: 0.44 ng

RT: 23.61 min Scan# 3211

Delta R.T. -0.04 min

Lab File: BE091373.D

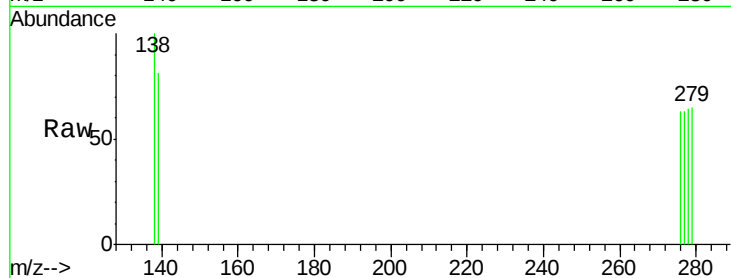
Acq: 15 Jan 2016 10:17

Instrument :

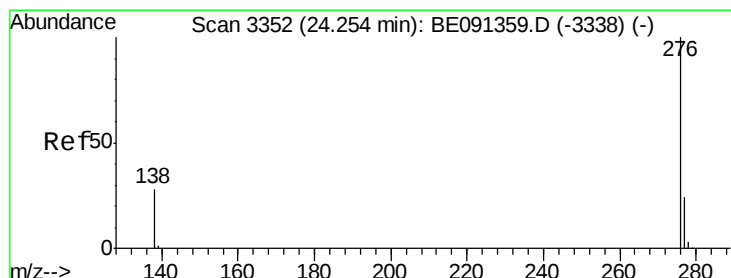
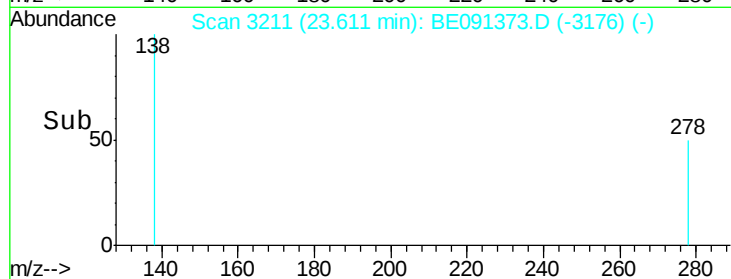
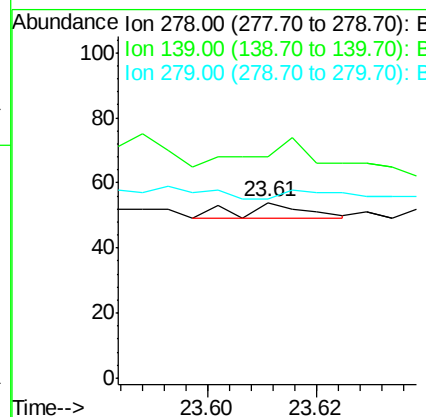
BNA_E

ClientSampleId :

PB87820BL



Tgt Ion:	278	Resp:	4
Ion	Ratio	Lower	Upper
278	100		
139	125.9	16.3	24.5#
279	101.9	19.4	29.2#



#29

Benzo(g,h,i)perylene

Concen: 0.34 ng

RT: 24.25 min Scan# 3352

Delta R.T. 0.00 min

Lab File: BE091373.D

Acq: 15 Jan 2016 10:17

Tgt Ion:	276	Resp:	4
Ion	Ratio	Lower	Upper
276	100		
277	98.2	19.8	29.6#
138	157.1	23.3	34.9#

