

Data Path : Z:\HPCHEM1\BNA E\DATA\BE040216\
 Data File : BE091596.D
 Acq On : 1 Apr 2016 18:43
 Operator : UM/SJ
 Sample : PB89421BL
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 PB89421BL

Quant Time: Apr 01 23:43:23 2016
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\8270-SIM-BE033016.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Mar 30 18:45:59 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.82	152	35946	5.00	ng	0.00
6) Naphthalene-d8	10.59	136	169364	5.00	ng	0.00
10) Acenaphthene-d10	14.42	164	105234	5.00	ng	-0.03
16) Phenanthrene-d10	17.16	188	274444	5.00	ng	-0.01
22) Chrysene-d12	21.31	240	337801	5.00	ng	-0.02
28) Perylene-d12	23.77	264	288664	5.00	ng	-0.02

System Monitoring Compounds						
4) 2-Fluorophenol	5.41	112	62864	6.68	ng	-0.02
5) Phenol-d6	6.97	99	89827	7.06	ng	-0.02
7) Nitrobenzene-d5	8.96	82	37035	3.26	ng	-0.02
11) 2,4,6-Tribromophenol	15.91	330	24946	5.35	ng	-0.01
12) 2-Fluorobiphenyl	13.05	172	109998	3.68	ng	-0.02
24) Terphenyl-d14	19.78	244	173025	4.04	ng	0.00

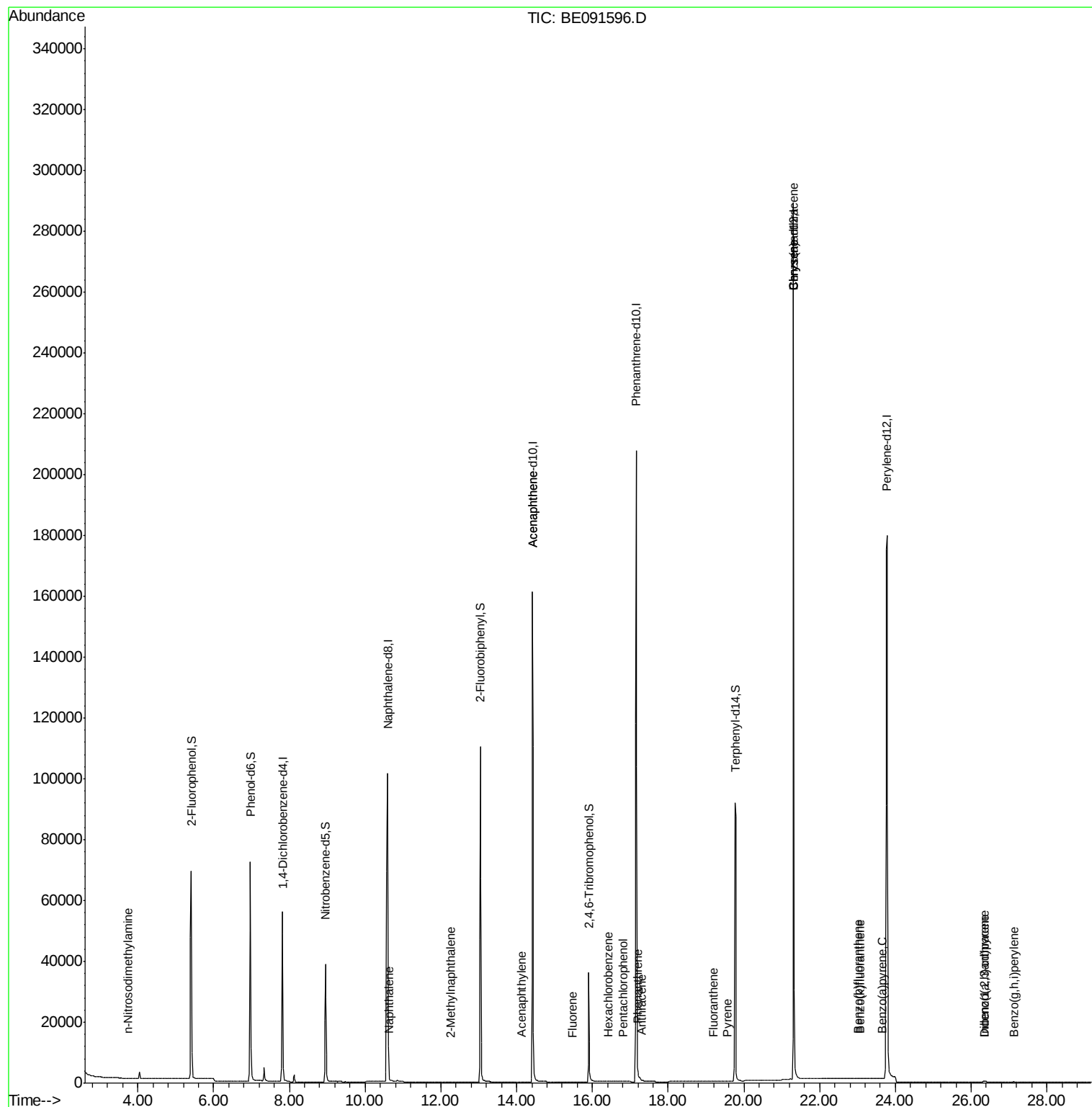
Target Compounds						Qvalue
3) n-Nitrosodimethylamine	3.75	42	49	0.01	ng	# 4
8) Naphthalene	10.63	128	65	0.00	ng	# 1
9) 2-Methylnaphthalene	12.25	142	46	0.00	ng	# 48
13) Acenaphthylene	14.14	152	984	0.02	ng	# 60
14) Acenaphthene	14.42	154	471	0.02	ng	# 12
15) Fluorene	15.47	166	33	0.00	ng	# 58
17) Hexachlorobenzene	16.43	284	18	0.00	ng	# 1
18) Pentachlorophenol	16.81	266	51	0.01	ng	# 65
19) Phenanthrene	17.19	178	122	0.00	ng	# 59
20) Anthracene	17.29	178	44	0.00	ng	# 53
21) Fluoranthene	19.20	202	108	0.00	ng	# 84
23) Pyrene	19.57	202	93	0.00	ng	# 35
25) Benzo(a)anthracene	21.31	228	1301	0.02	ng	# 69
26) Chrysene	21.31	228	1308	0.02	ng	# 82
27) Indeno(1,2,3-cd)pyrene	26.34	276	437	0.01	ng	# 85
29) Benzo(b)fluoranthene	23.01	252	334	0.00	ng	# 1
30) Benzo(k)fluoranthene	23.07	252	221	0.00	ng	# 1
31) Benzo(a)pyrene	23.65	252	221	0.00	ng	# 1
32) Dibenzo(a,h)anthracene	26.36	278	447	0.01	ng	# 12
33) Benzo(a,h,i)perylene	27.13	276	228	0.00	ng	# 4

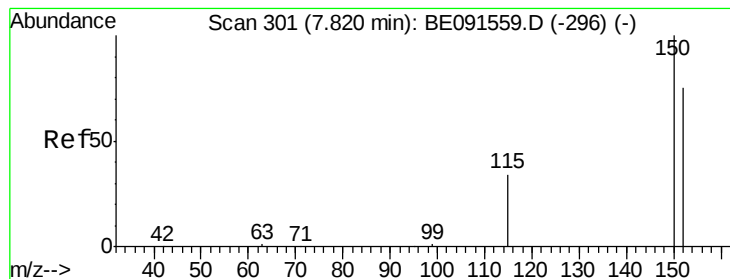
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 7.82 min Scan# 301

Delta R.T. 0.00 min

Lab File: BE091596.D

Acq: 1 Apr 2016 18:43

Instrument :

BNA_E

ClientSampleId :

PB89421BL

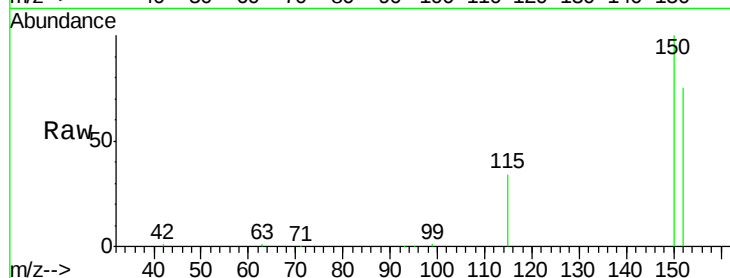
Tot Ion:152 Resp: 35946

Ion Ratio Lower Upper

152 100

150 133.5 122.2 183.2

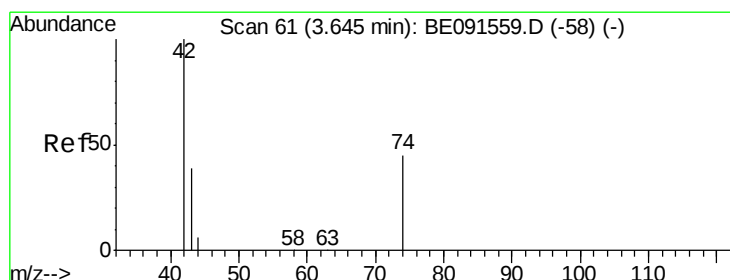
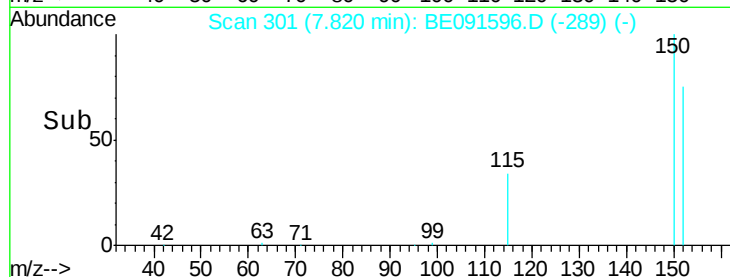
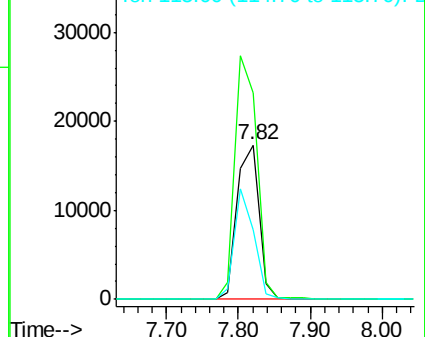
115 45.2 45.9 68.9#



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



#3

n-Nitrosodimethylamine

Concen: 0.01 ng

RT: 3.75 min Scan# 67

Delta R.T. 0.07 min

Lab File: BE091596.D

Acq: 1 Apr 2016 18:43

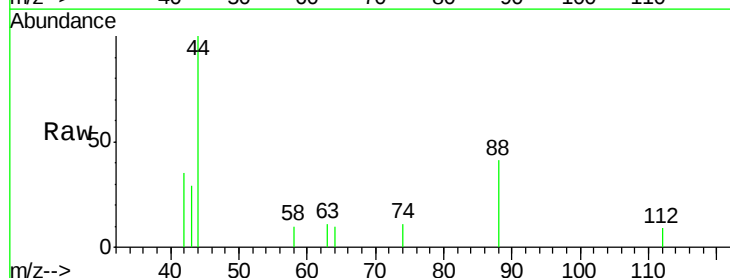
Tgt Ion: 42 Resp: 49

Ion Ratio Lower Upper

42 100

74 0.0 84.3 126.5#

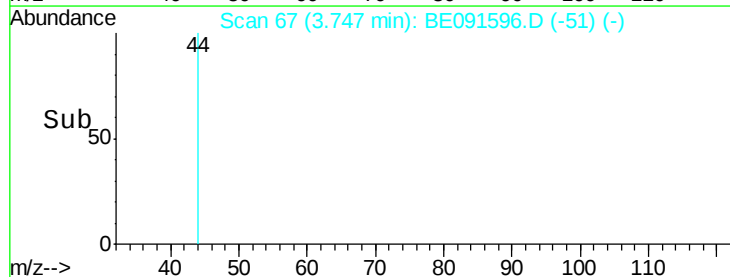
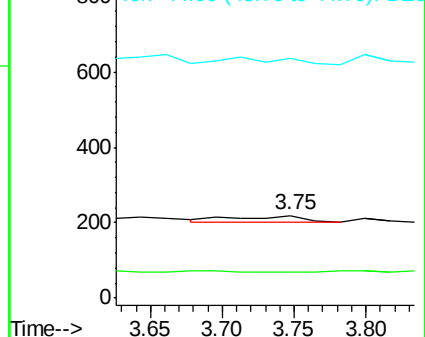
44 0.0 6.7 10.1#

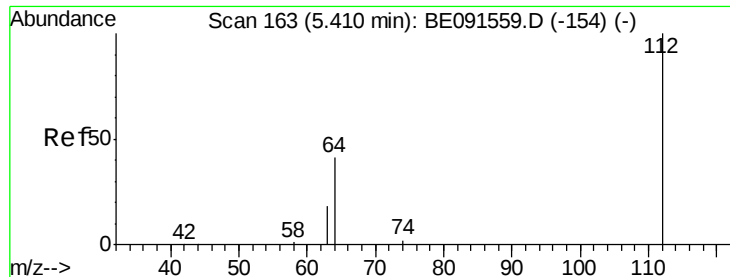


Abundance Ion 42.00 (41.70 to 42.70): BE0

Ion 74.00 (73.70 to 74.70): BE0

Ion 44.00 (43.70 to 44.70): BE0





#4

2-Fluorophenol

Concen: 6.68 ng

RT: 5.41 min Scan# 163

Delta R.T. -0.02 min

Lab File: BE091596.D

Acq: 1 Apr 2016 18:43

Instrument :

BNA_E

ClientSampleId :

PB89421BL

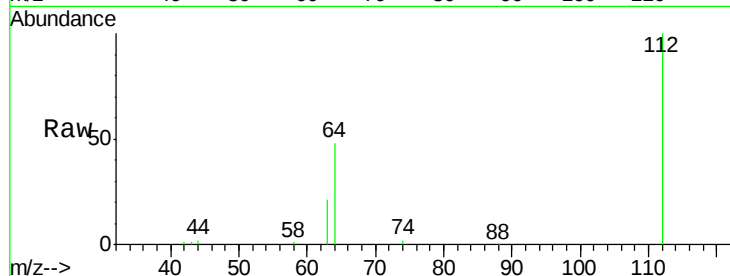
Tot Ion:112 Resp: 62864

Ion Ratio Lower Upper

112 100

64 67.7 53.3 79.9

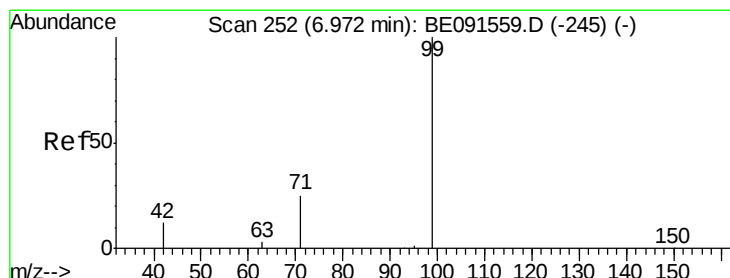
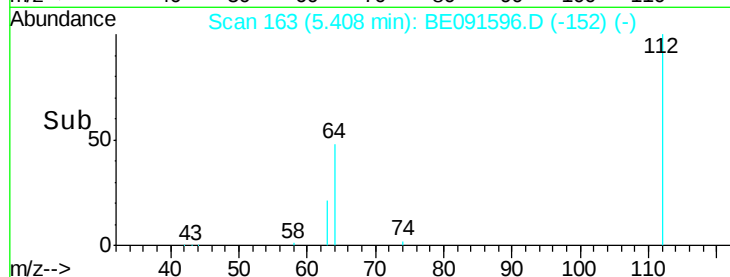
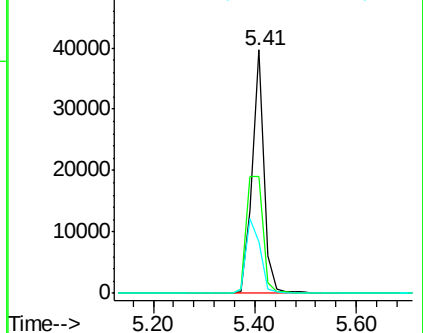
63 36.5 29.8 44.8



Abundance Ion 112.00 (111.70 to 112.70): BE0

Ion 64.00 (63.70 to 64.70): BE0

Ion 63.00 (62.70 to 63.70): BE0



#5

Phenol-d6

Concen: 7.06 ng

RT: 6.97 min Scan# 252

Delta R.T. -0.02 min

Lab File: BE091596.D

Acq: 1 Apr 2016 18:43

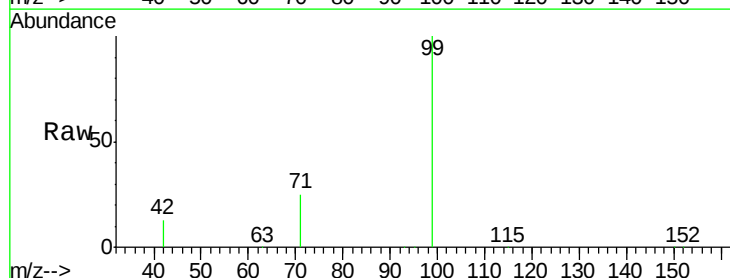
Tgt Ion: 99 Resp: 89827

Ion Ratio Lower Upper

99 100

42 25.1 20.6 30.8

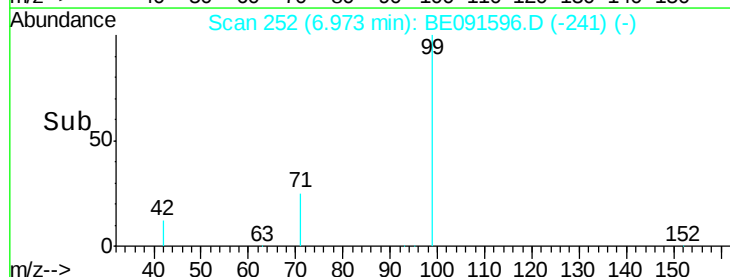
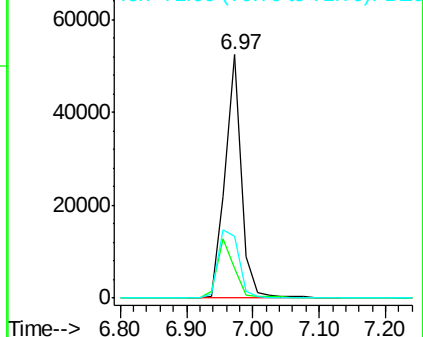
71 35.8 29.0 43.4

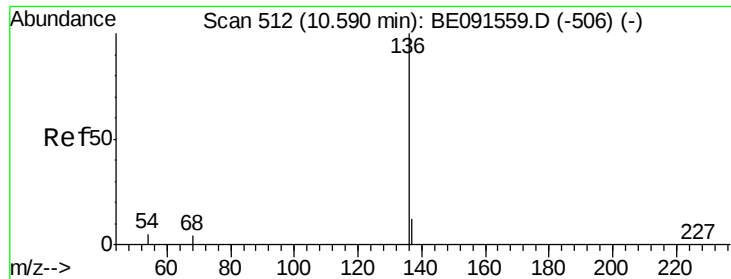


Abundance Ion 99.00 (98.70 to 99.70): BE0

Ion 42.00 (41.70 to 42.70): BE0

Ion 71.00 (70.70 to 71.70): BE0





#6

Naphthalene-d8

Concen: 5.00 ng

RT: 10.59 min Scan# 512

Delta R.T. -0.00 min

Lab File: BE091596.D

Acq: 1 Apr 2016 18:43

Instrument :

BNA_E

ClientSampleId :

PB89421BL

Tot Ion:136 Resp: 169364

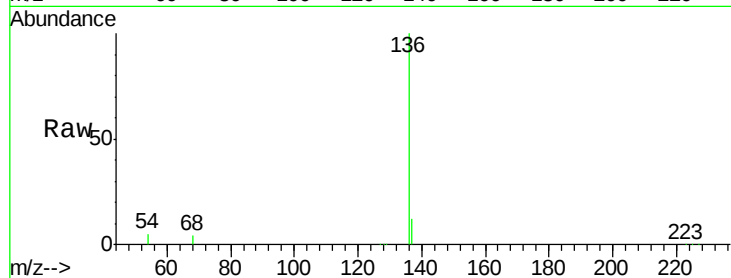
Ion Ratio Lower Upper

136 100

137 11.8 8.8 13.2

54 4.8 5.2 7.8#

68 3.9 4.1 6.1#

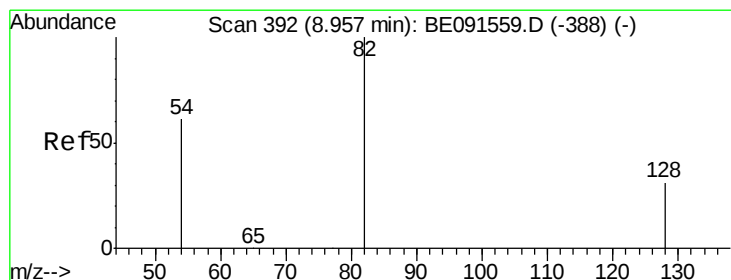
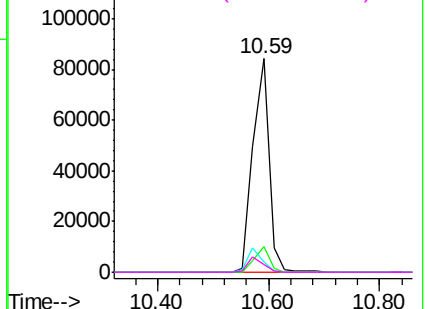
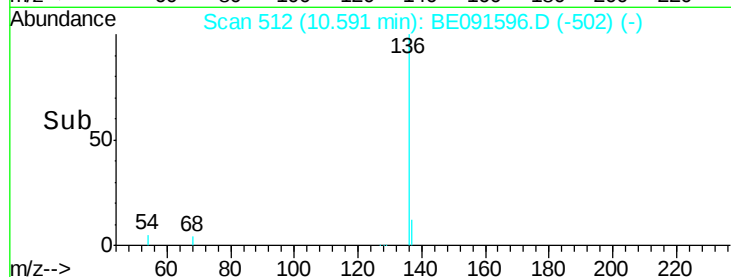


Abundance Ion 136.00 (135.70 to 136.70): E

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



#7

Nitrobenzene-d5

Concen: 3.26 ng

RT: 8.96 min Scan# 392

Delta R.T. -0.02 min

Lab File: BE091596.D

Acq: 1 Apr 2016 18:43

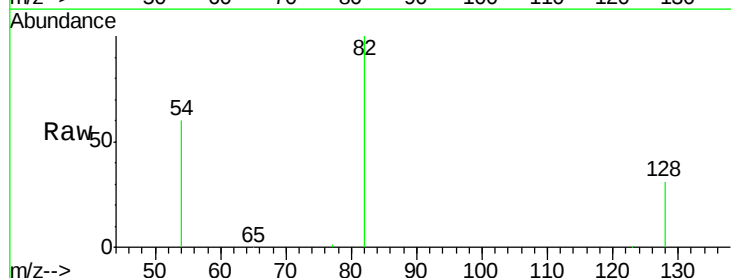
Tgt Ion: 82 Resp: 37035

Ion Ratio Lower Upper

82 100

128 30.7 23.5 35.3

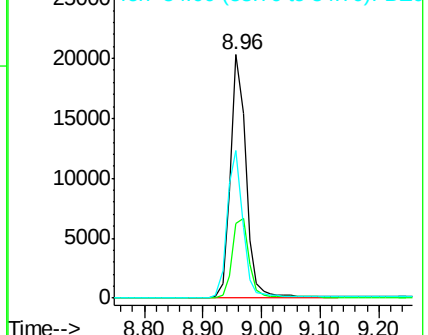
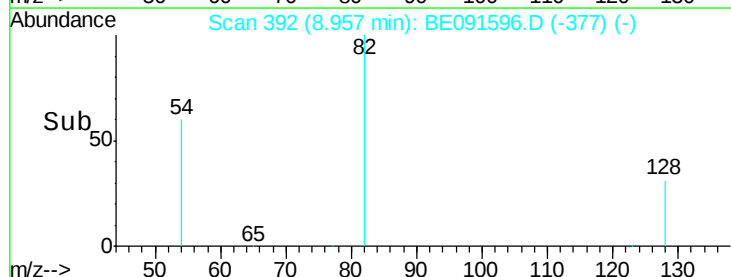
54 60.5 52.4 78.6

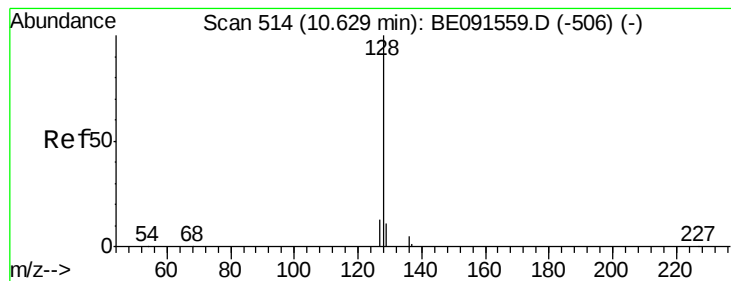


Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE0





#8

Naphthalene

Concen: 0.00 ng

RT: 10.63 min Scan# 514

Delta R.T. -0.02 min

Lab File: BE091596.D

Acq: 1 Apr 2016 18:43

Instrument :

BNA_E

ClientSampleId :

PB89421BL

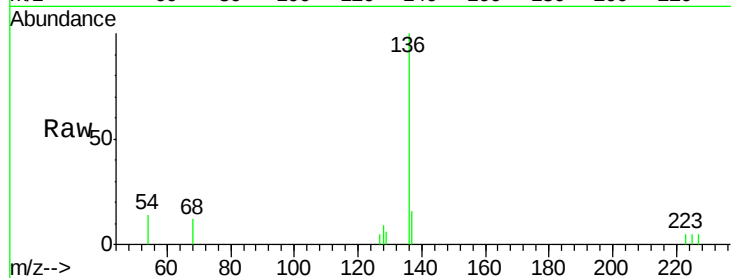
Tot Ion:128 Resp: 65

Ion Ratio Lower Upper

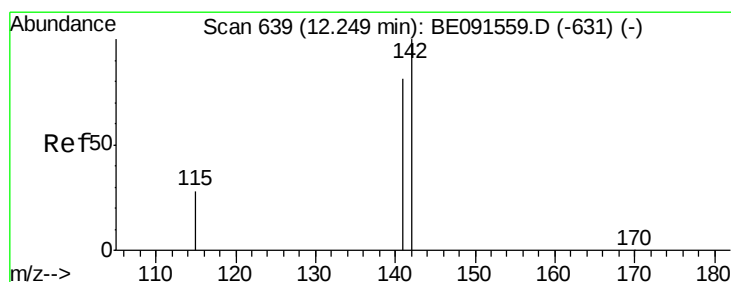
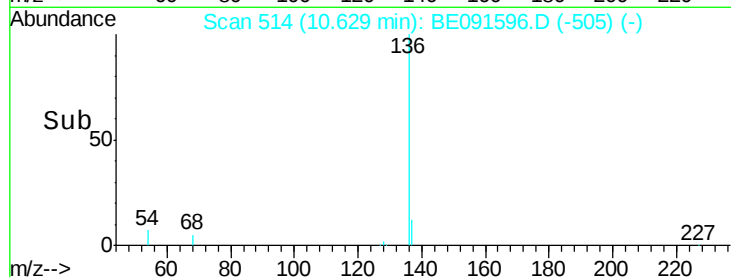
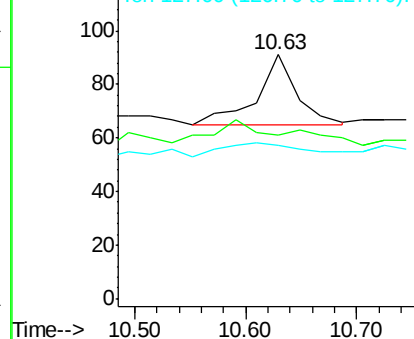
128 100

129 67.0 8.2 12.2#

127 62.6 11.8 17.8#



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



#9

2-Methylnaphthalene

Concen: 0.00 ng

RT: 12.25 min Scan# 639

Delta R.T. -0.01 min

Lab File: BE091596.D

Acq: 1 Apr 2016 18:43

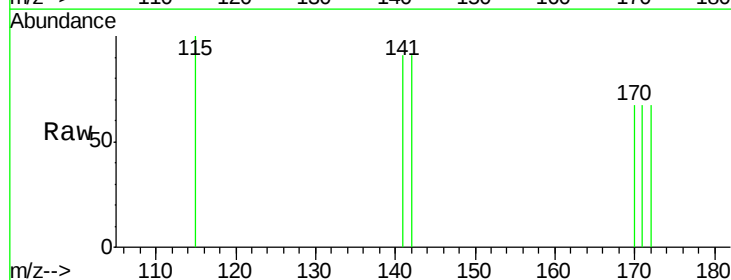
Tgt Ion:142 Resp: 46

Ion Ratio Lower Upper

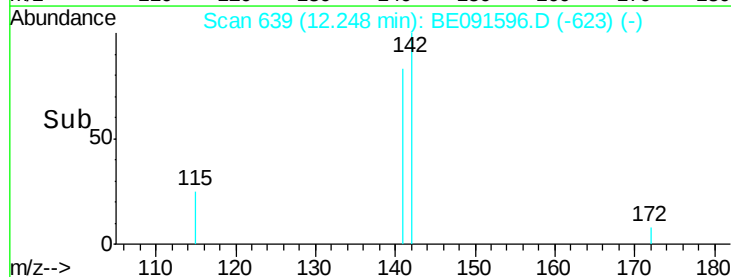
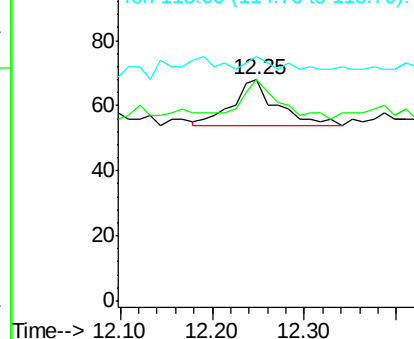
142 100

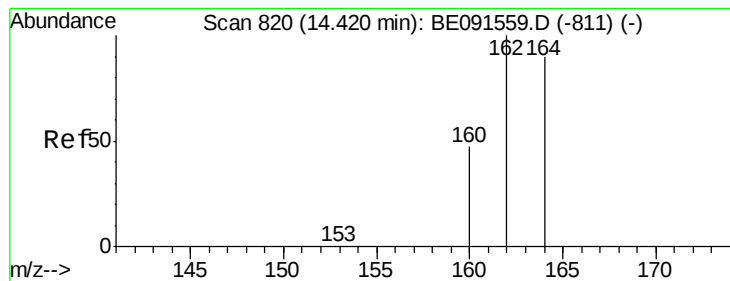
141 100.0 66.9 100.3

115 110.3 25.1 37.7#



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





#10

Acenaphthene-d10

Concen: 5.00 ng

RT: 14.42 min Scan# 820

Delta R.T. -0.03 min

Lab File: BE091596.D

Acq: 1 Apr 2016 18:43

Instrument :

BNA_E

ClientSampleId :

PB89421BL

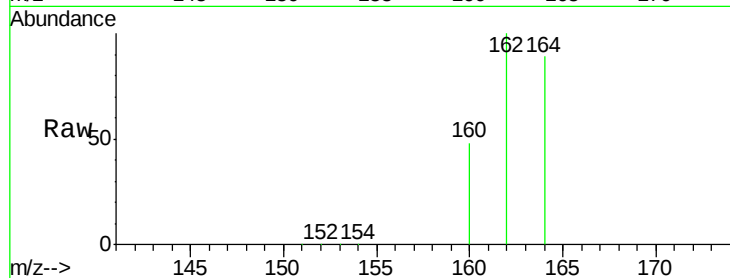
Tot Ion:164 Resp: 105234

Ion Ratio Lower Upper

164 100

162 112.9 84.4 126.6

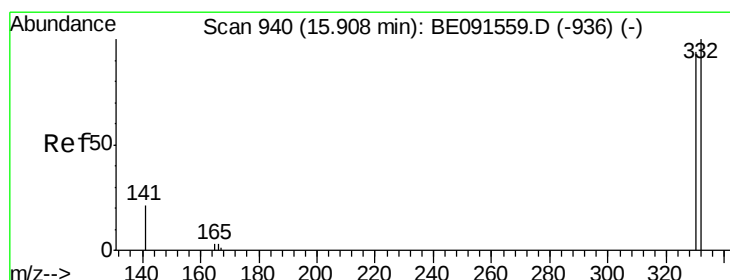
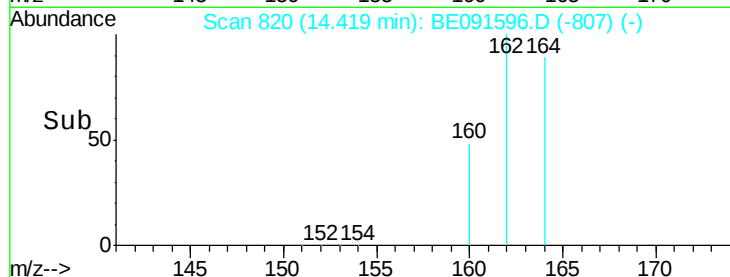
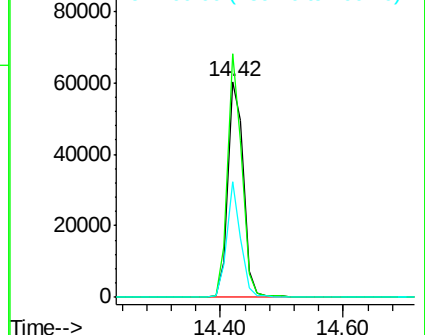
160 53.9 37.7 56.5



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



#11

2,4,6-Tribromophenol

Concen: 5.35 ng

RT: 15.91 min Scan# 940

Delta R.T. -0.01 min

Lab File: BE091596.D

Acq: 1 Apr 2016 18:43

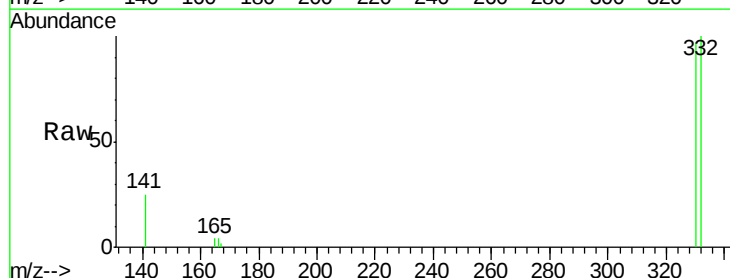
Tgt Ion:330 Resp: 24946

Ion Ratio Lower Upper

330 100

332 97.0 79.2 118.8

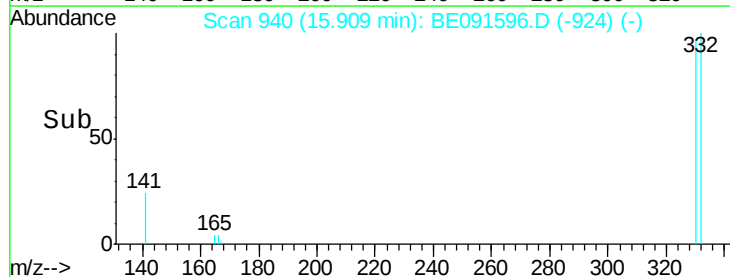
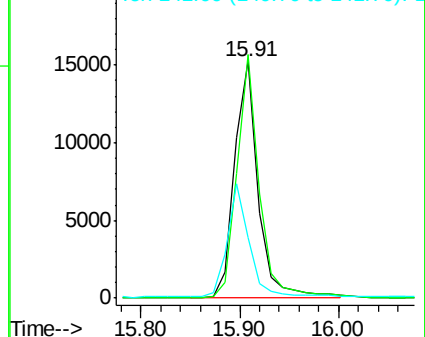
141 44.7 28.1 42.1#

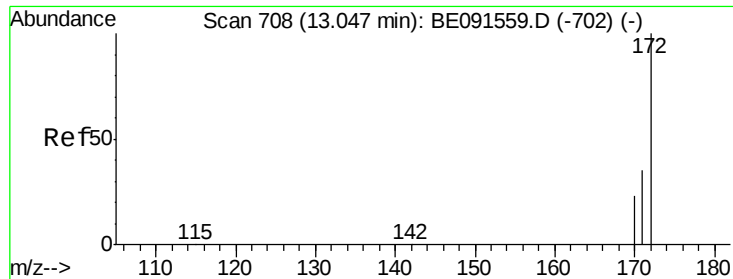


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

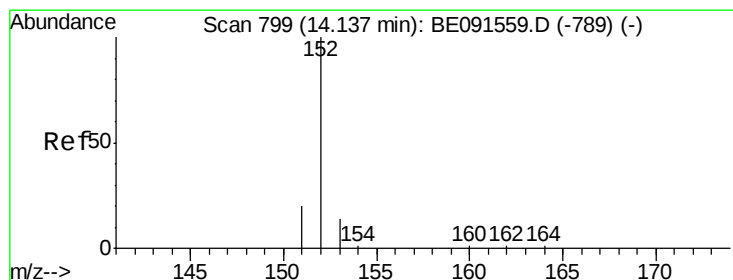
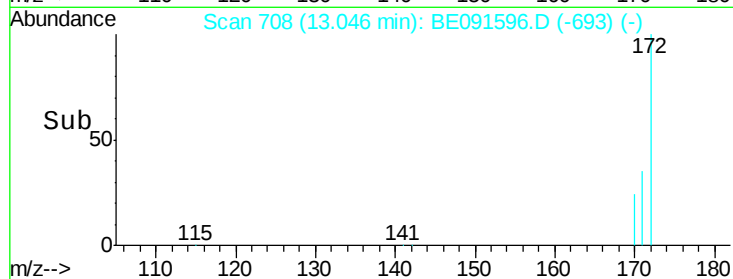
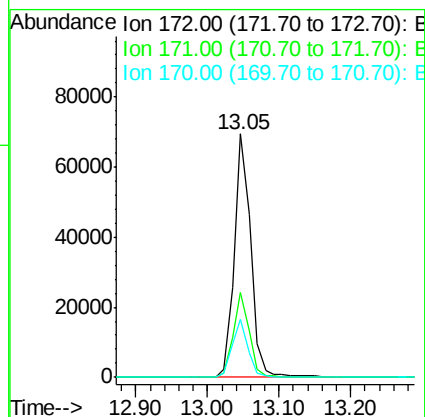
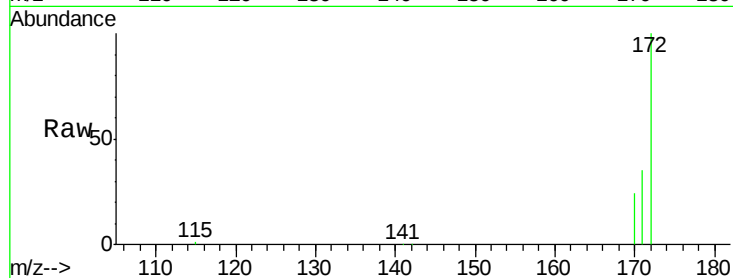




#12
2-Fluorobiphenyl
Concen: 3.68 ng
RT: 13.05 min Scan# 708
Delta R.T. -0.02 min
Lab File: BE091596.D
Acq: 1 Apr 2016 18:43

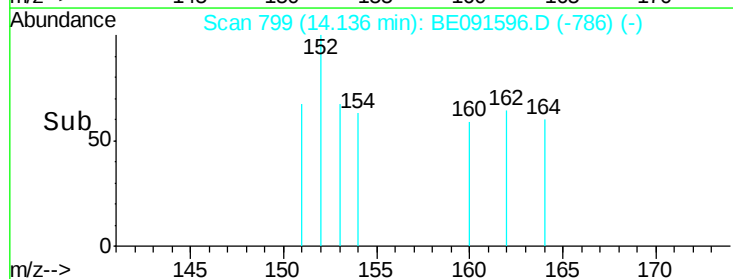
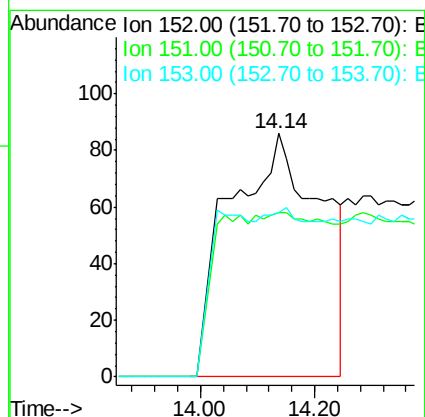
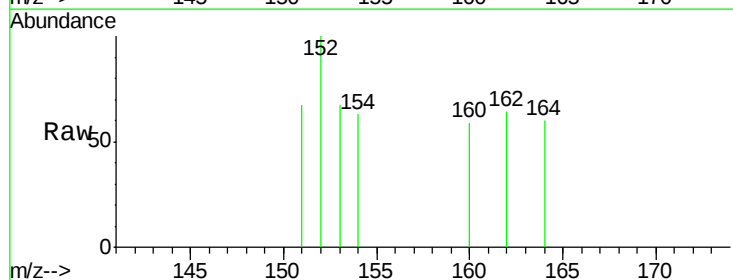
Instrument :
BNA_E
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PB89421BL

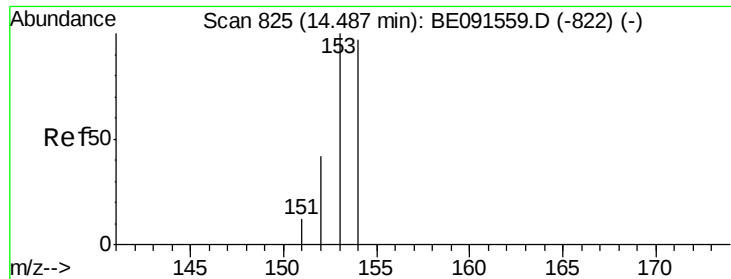
Tot Ion:172 Resp: 109998
Ion Ratio Lower Upper
172 100
171 34.9 29.8 44.8
170 23.7 21.4 32.2



#13
Acenaphthylene
Concen: 0.02 ng
RT: 14.14 min Scan# 799
Delta R.T. -0.01 min
Lab File: BE091596.D
Acq: 1 Apr 2016 18:43

Tgt Ion:152 Resp: 984
Ion Ratio Lower Upper
152 100
151 0.0 16.3 24.5#
153 0.0 11.1 16.7#





#14

Acenaphthene

Concen: 0.02 ng

RT: 14.42 min Scan# 820

Delta R.T. -0.08 min

Lab File: BE091596.D

Acq: 1 Apr 2016 18:43

Instrument :

BNA_E

ClientSampleId :

PB89421BL

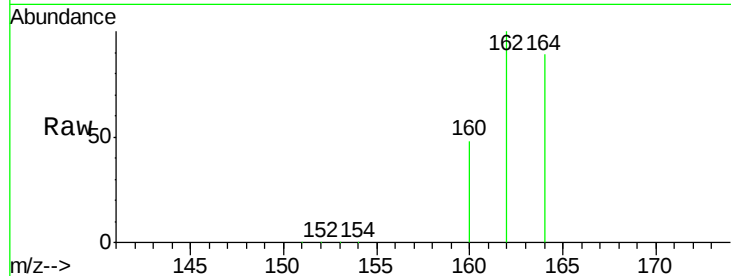
Tot Ion:154 Resp: 471

Ion Ratio Lower Upper

154 100

153 9.8 87.3 130.9#

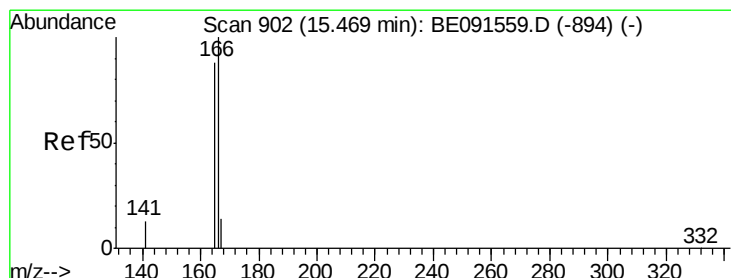
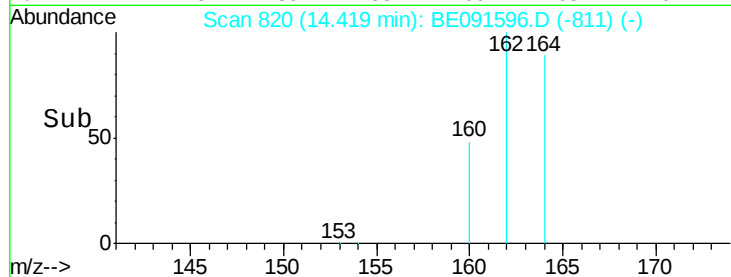
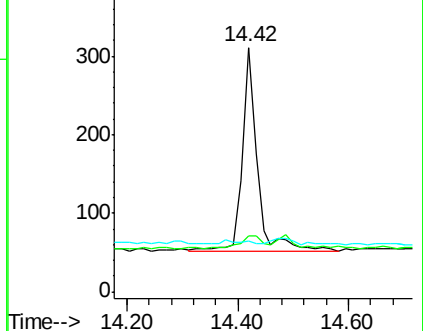
152 0.0 42.9 64.3#



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



#15

Fluorene

Concen: 0.00 ng

RT: 15.47 min Scan# 902

Delta R.T. -0.01 min

Lab File: BE091596.D

Acq: 1 Apr 2016 18:43

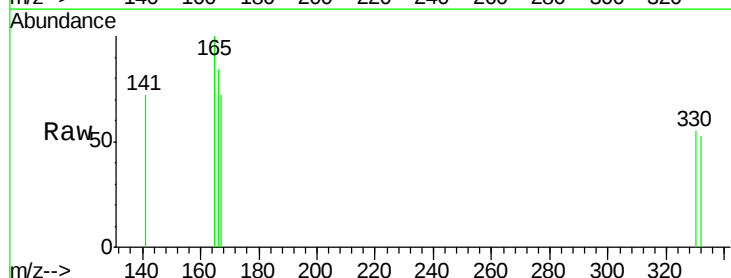
Tgt Ion:166 Resp: 33

Ion Ratio Lower Upper

166 100

165 142.4 79.2 118.8#

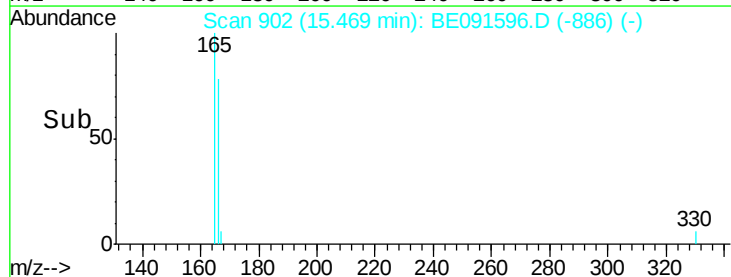
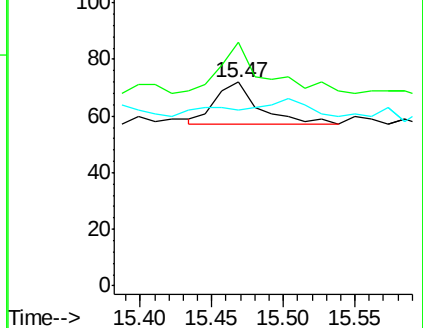
167 0.0 10.8 16.2#

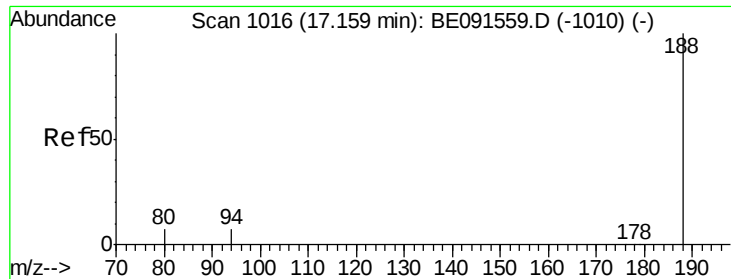


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

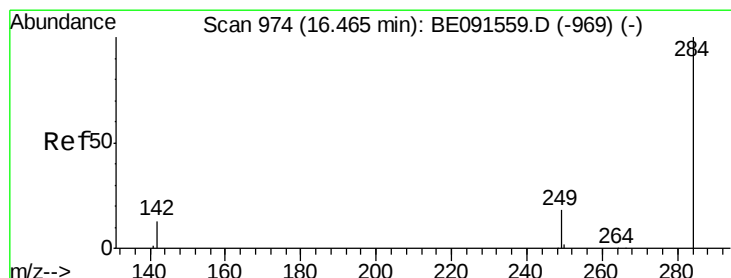
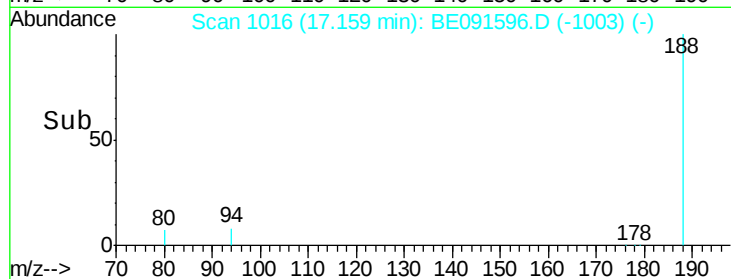
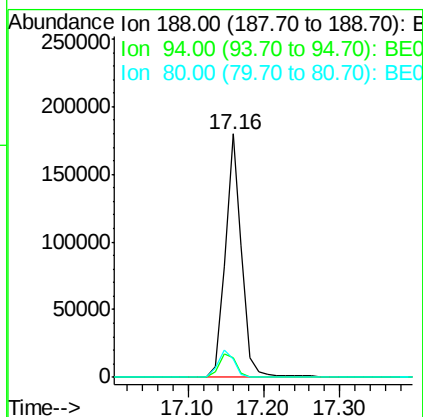
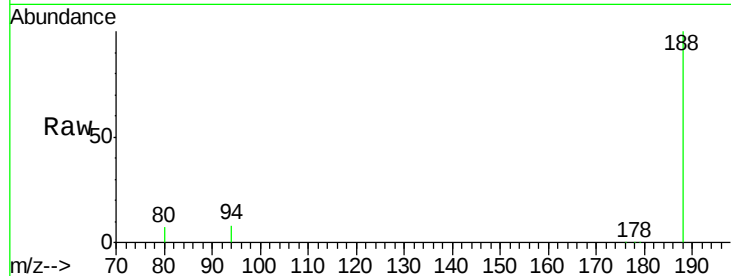




#16
Phenanthrene-d10
Concen: 5.00 ng
RT: 17.16 min Scan# 1016
Delta R.T. -0.01 min
Lab File: BE091596.D
Acq: 1 Apr 2016 18:43

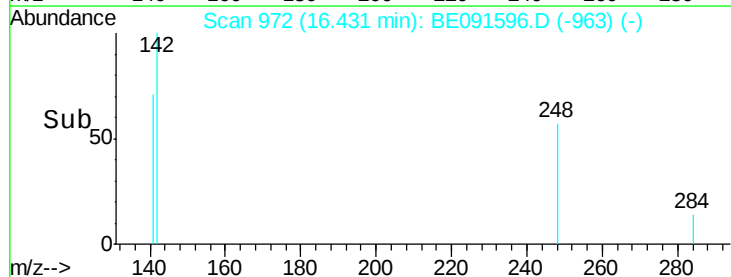
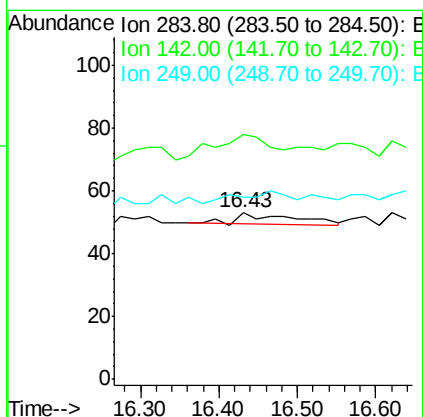
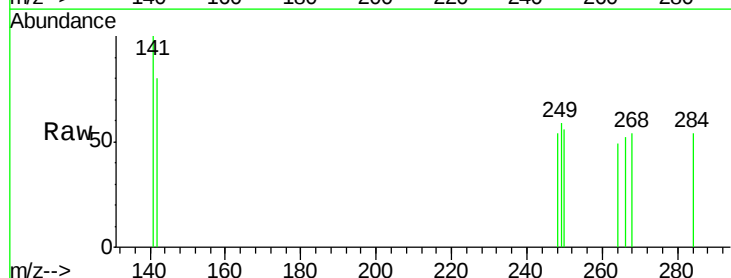
Instrument :
BNA_E
ClientSampleId :
PB89421BL

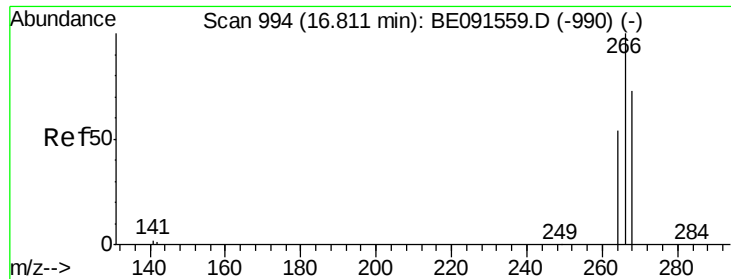
Tot Ion:188 Resp: 274444
Ion Ratio Lower Upper
188 100
94 7.9 5.4 8.2
80 7.5 5.0 7.4#



#17
Hexachlorobenzene
Concen: 0.00 ng
RT: 16.43 min Scan# 972
Delta R.T. -0.05 min
Lab File: BE091596.D
Acq: 1 Apr 2016 18:43

Tgt Ion:284 Resp: 18
Ion Ratio Lower Upper
284 100
142 211.1 31.0 46.4#
249 0.0 25.8 38.8#

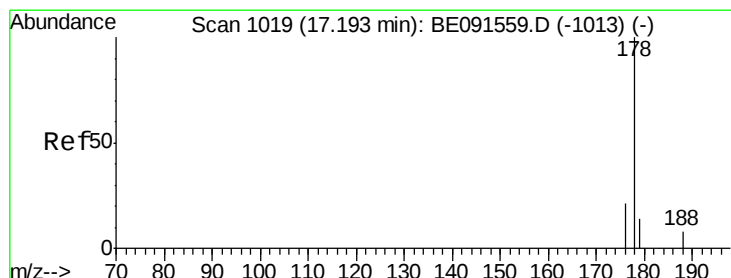
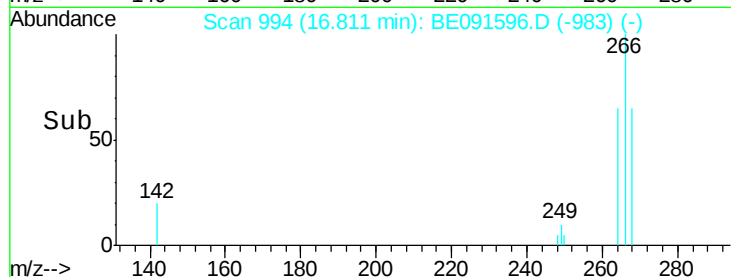
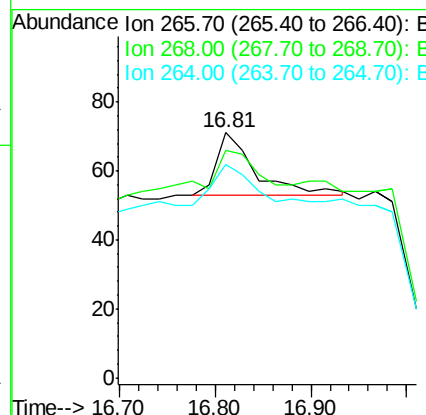
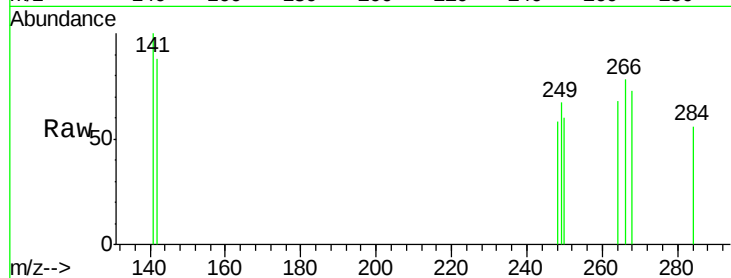




#18
 Pentachlorophenol
 Concen: 0.01 ng
 RT: 16.81 min Scan# 994
 Delta R.T. -0.02 min
 Lab File: BE091596.D
 Acq: 1 Apr 2016 18:43

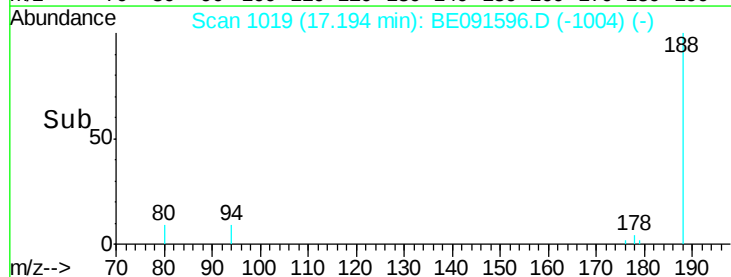
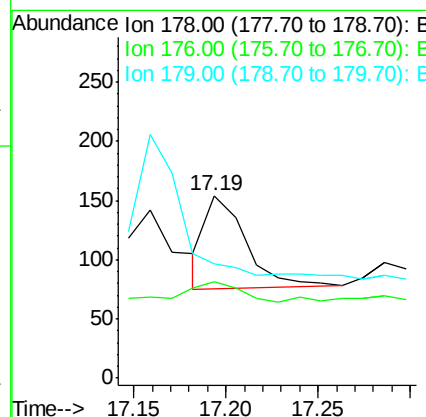
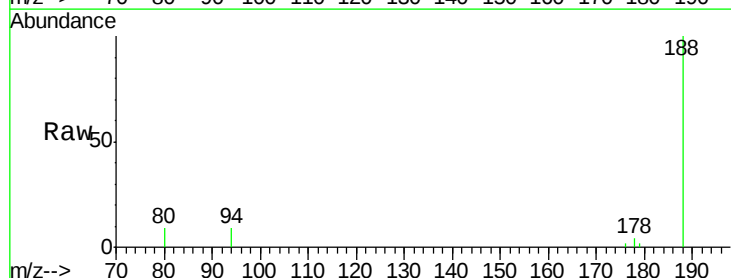
Instrument :
 BNA_E
 ClientSampleId :
 PB89421BL

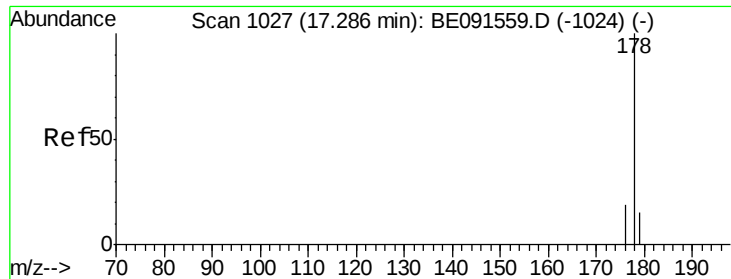
Tot Ion:266 Resp: 51
 Ion Ratio Lower Upper
 266 100
 268 93.0 48.2 72.2#
 264 87.3 52.1 78.1#



#19
 Phenanthrene
 Concen: 0.00 ng
 RT: 17.19 min Scan# 1019
 Delta R.T. -0.01 min
 Lab File: BE091596.D
 Acq: 1 Apr 2016 18:43

Tgt Ion:178 Resp: 122
 Ion Ratio Lower Upper
 178 100
 176 0.0 15.5 23.3#
 179 0.0 13.1 19.7#





#20

Anthracene

Concen: 0.00 ng

RT: 17.29 min Scan# 1027

Delta R.T. -0.01 min

Lab File: BE091596.D

Acq: 1 Apr 2016 18:43

Instrument :

BNA_E

ClientSampleId :

PB89421BL

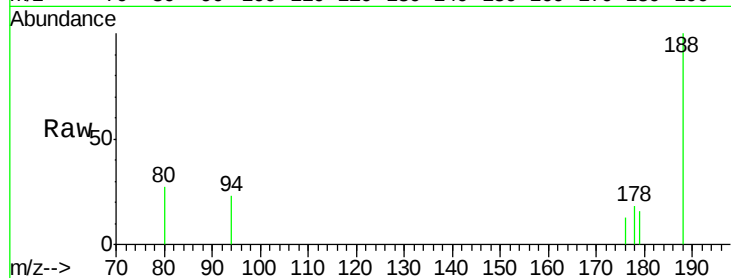
Tot Ion:178 Resp: 44

Ion Ratio Lower Upper

178 100

176 43.2 14.9 22.3#

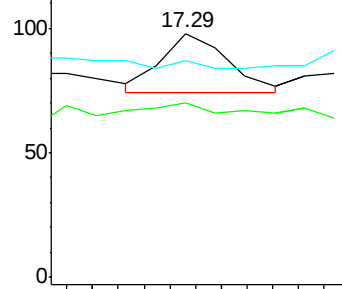
179 0.0 12.2 18.4#



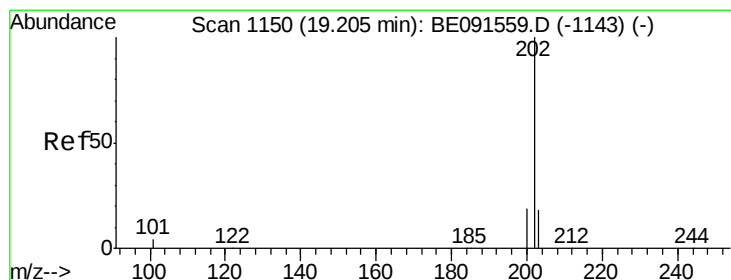
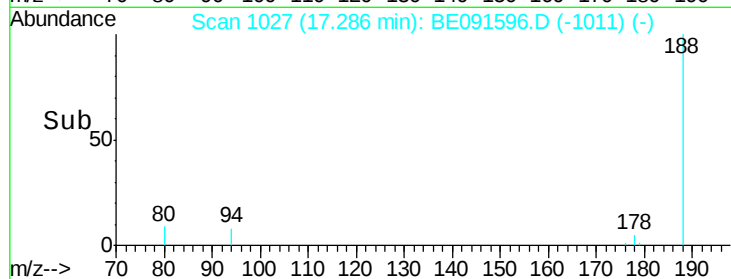
Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



Time-->



#21

Fluoranthene

Concen: 0.00 ng

RT: 19.20 min Scan# 1150

Delta R.T. -0.02 min

Lab File: BE091596.D

Acq: 1 Apr 2016 18:43

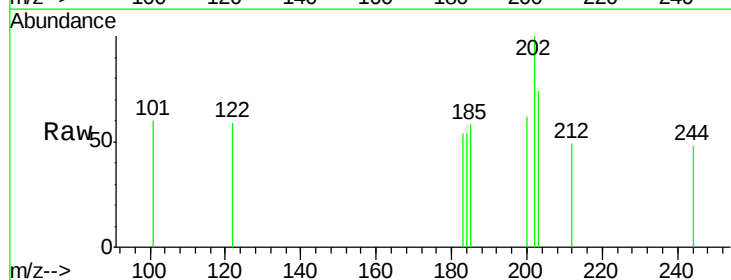
Tgt Ion:202 Resp: 108

Ion Ratio Lower Upper

202 100

101 2.8 8.3 12.5#

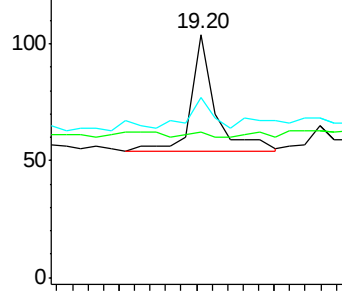
203 23.1 13.9 20.9#



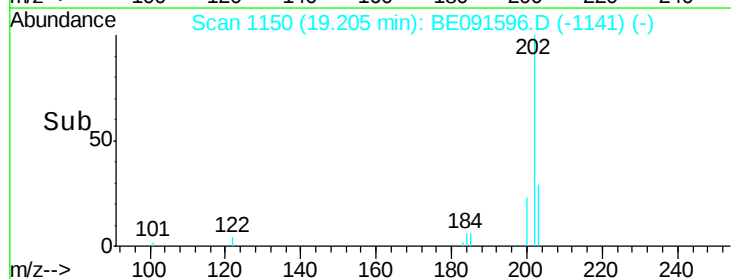
Abundance Ion 202.00 (201.70 to 202.70): E

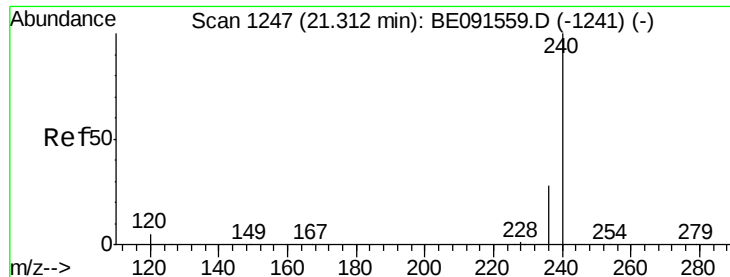
Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



Time-->





#22

Chrysene-d12

Concen: 5.00 ng

RT: 21.31 min Scan# 1247

Delta R.T. -0.02 min

Lab File: BE091596.D

Acq: 1 Apr 2016 18:43

Instrument :

BNA_E

ClientSampled :

PB89421BL

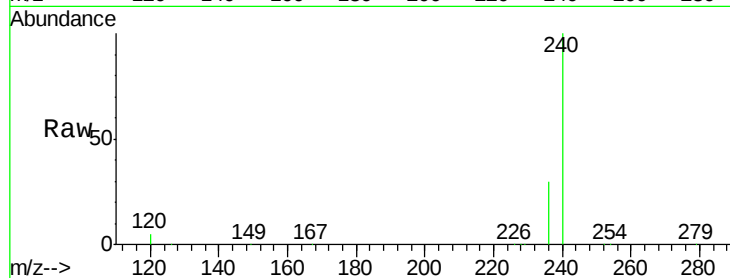
Tot Ion:240 Resp: 337801

Ion Ratio Lower Upper

240 100

120 5.0 4.0 6.0

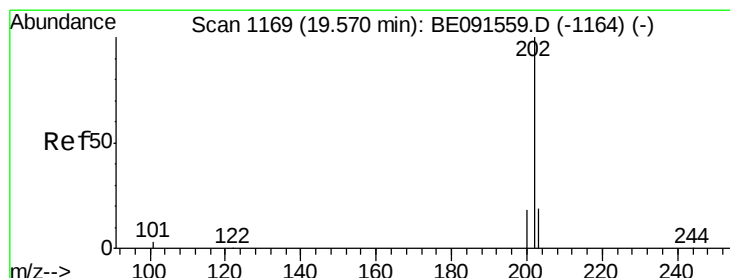
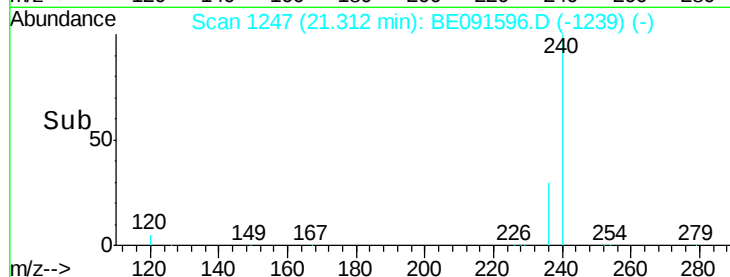
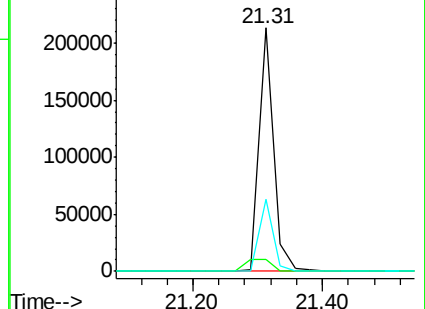
236 29.5 23.0 34.4



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



#23

Pyrene

Concen: 0.00 ng

RT: 19.57 min Scan# 1169

Delta R.T. -0.00 min

Lab File: BE091596.D

Acq: 1 Apr 2016 18:43

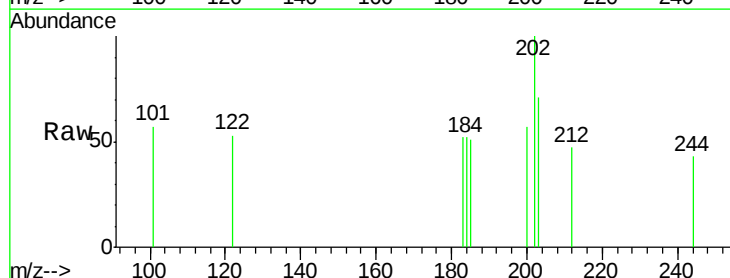
Tgt Ion:202 Resp: 93

Ion Ratio Lower Upper

202 100

200 24.7 16.4 24.6#

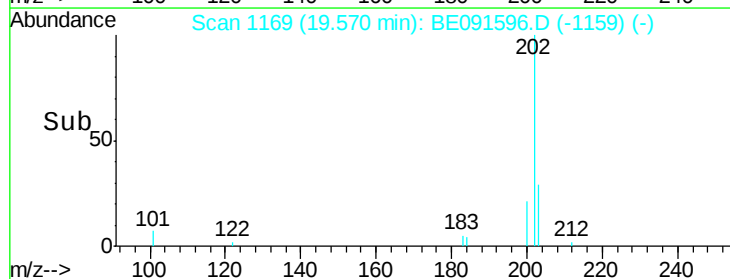
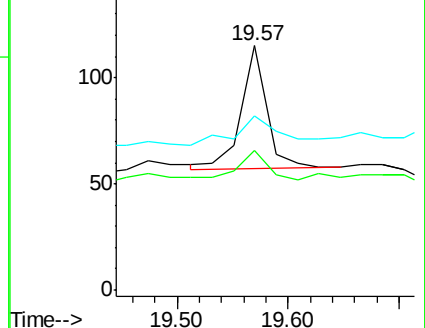
203 75.3 14.6 21.8#

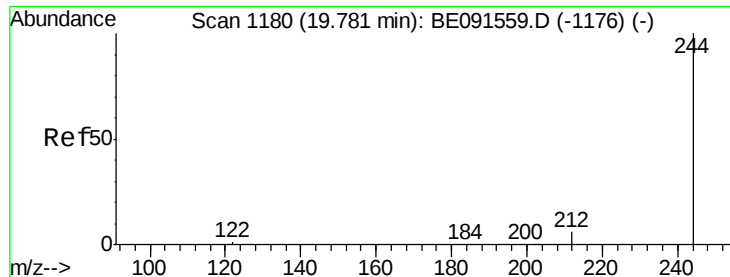


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#24

Terphenyl-d14

Concen: 4.04 ng

RT: 19.78 min Scan# 1180

Delta R.T. -0.00 min

Lab File: BE091596.D

Acq: 1 Apr 2016 18:43

Instrument :

BNA_E

ClientSampled :

PB89421BL

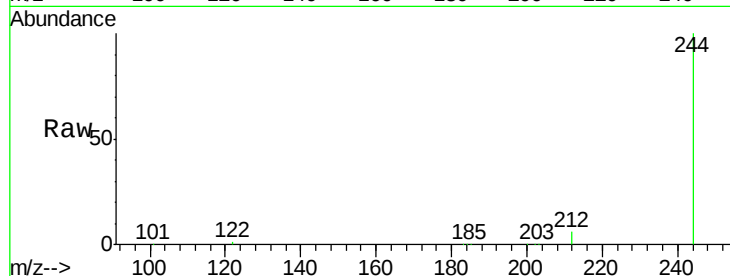
Tot Ion:244 Resp: 173025

Ion Ratio Lower Upper

244 100

212 6.2 5.8 8.8

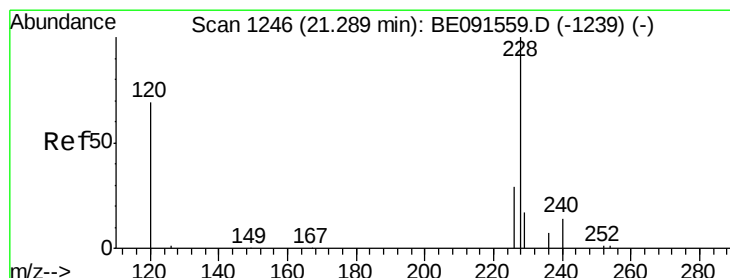
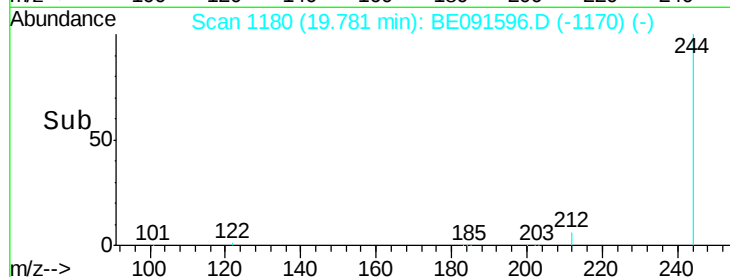
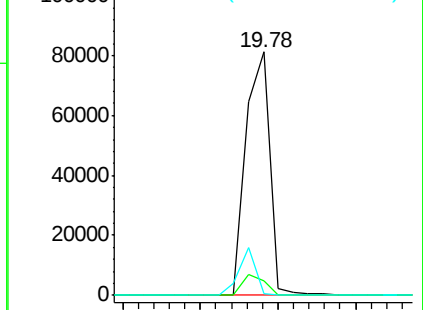
122 0.7 1.8 2.8#



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



#25

Benzo(a)anthracene

Concen: 0.02 ng

RT: 21.31 min Scan# 1247

Delta R.T. -0.00 min

Lab File: BE091596.D

Acq: 1 Apr 2016 18:43

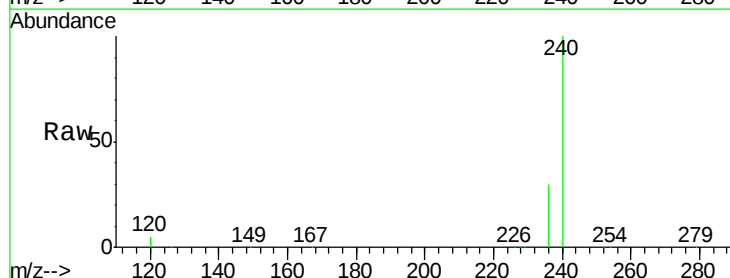
Tgt Ion:228 Resp: 1301

Ion Ratio Lower Upper

228 100

226 16.6 24.0 36.0#

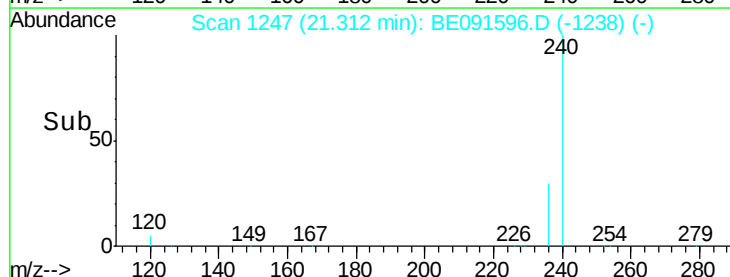
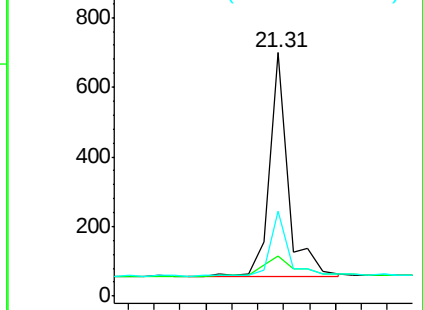
229 34.9 13.8 20.6#

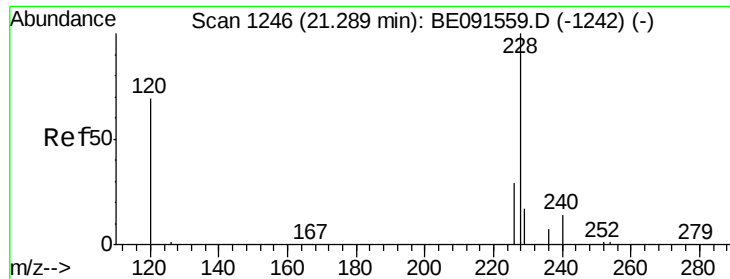


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

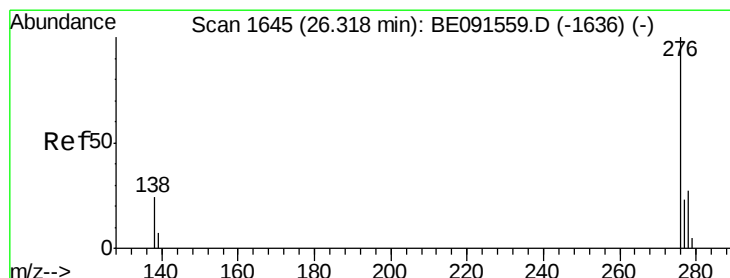
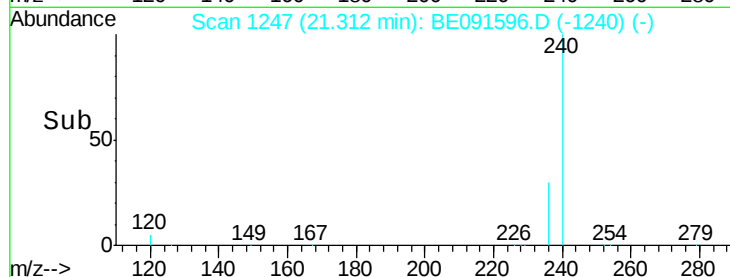
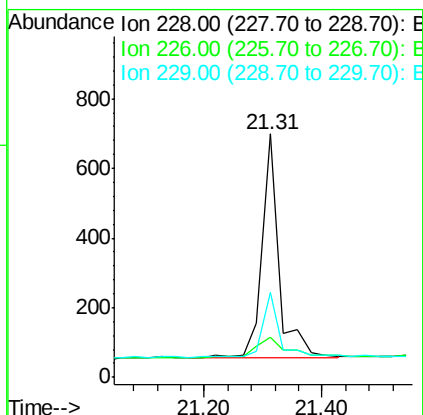
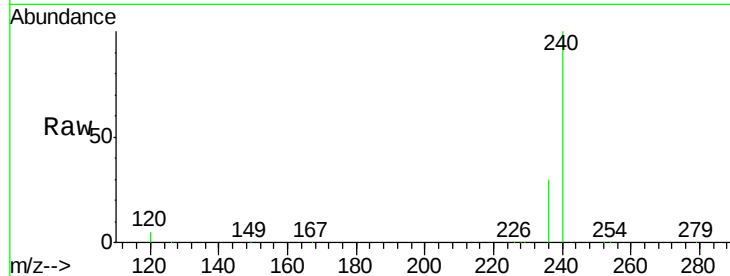




#26
Chrysene
Concen: 0.02 ng
RT: 21.31 min Scan# 1247
Delta R.T. -0.05 min
Lab File: BE091596.D
Acq: 1 Apr 2016 18:43

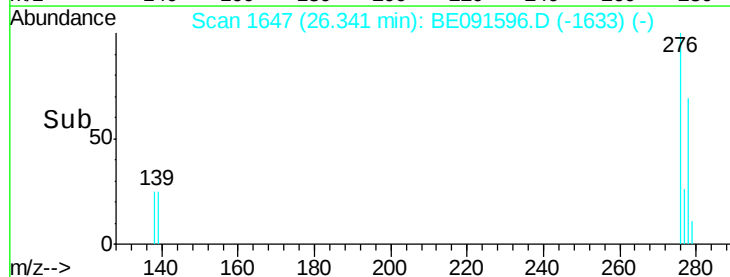
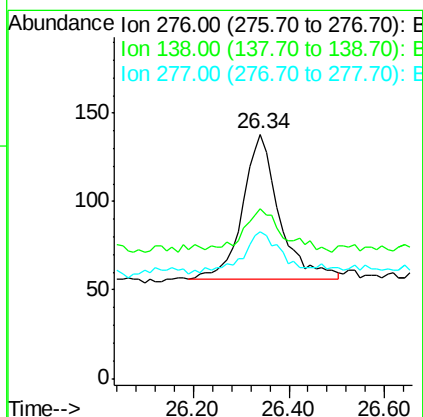
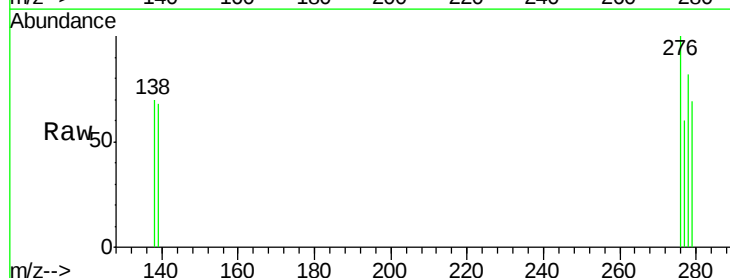
Instrument :
BNA_E
ClientSampleId :
PB89421BL

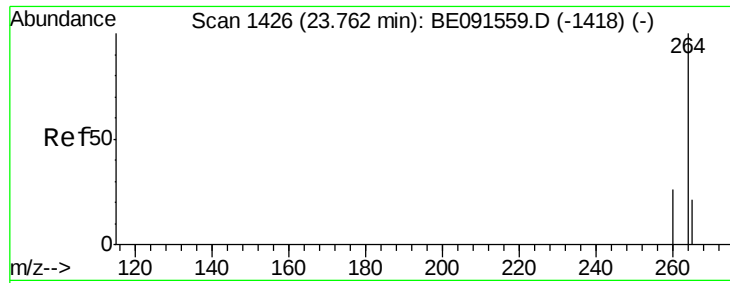
Tot Ion:228 Resp: 1308
Ion Ratio Lower Upper
228 100
226 16.6 18.9 28.3#
229 34.9 19.1 28.7#



#27
Indeno(1,2,3-cd)pyrene
Concen: 0.01 ng
RT: 26.34 min Scan# 1647
Delta R.T. -0.03 min
Lab File: BE091596.D
Acq: 1 Apr 2016 18:43

Tgt Ion:276 Resp: 437
Ion Ratio Lower Upper
276 100
138 33.4 20.2 30.4#
277 31.4 19.8 29.8#

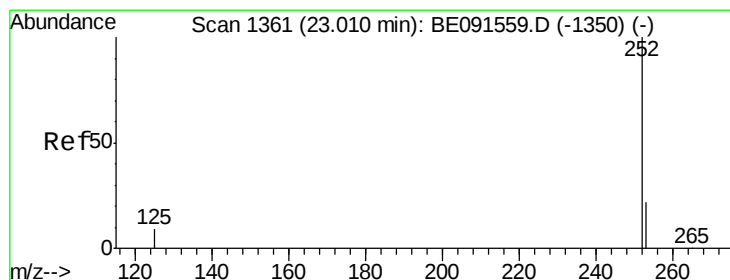
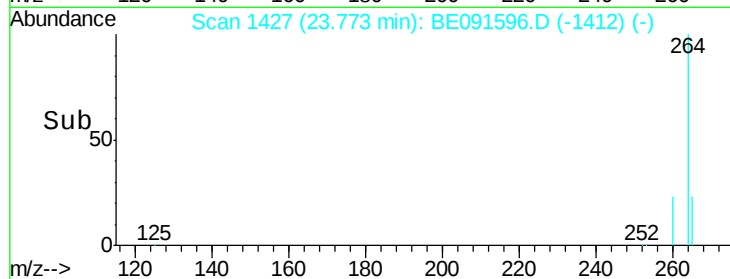
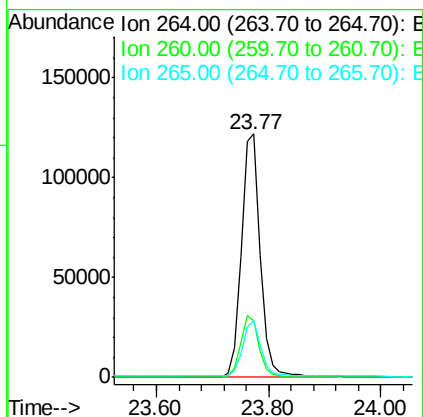
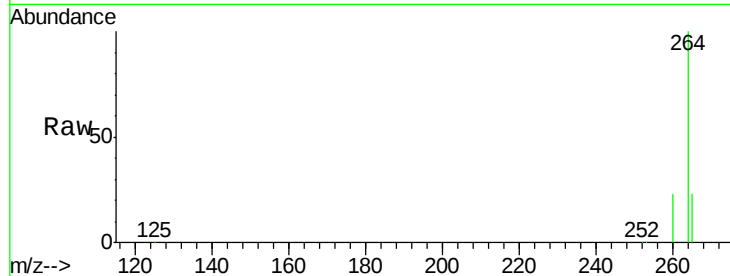




#28
 Pervlene-d12
 Concen: 5.00 ng
 RT: 23.77 min Scan# 1427
 Delta R.T. -0.02 min
 Lab File: BE091596.D
 Acq: 1 Apr 2016 18:43

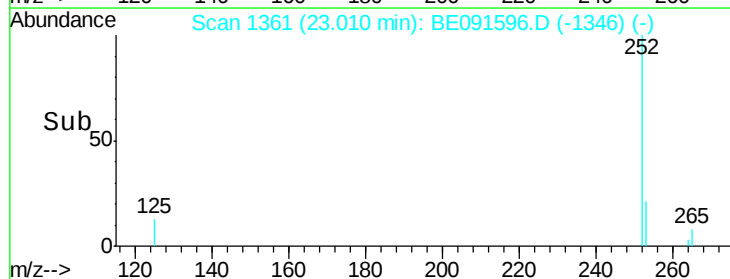
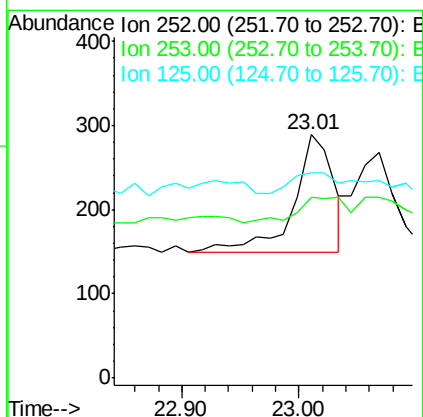
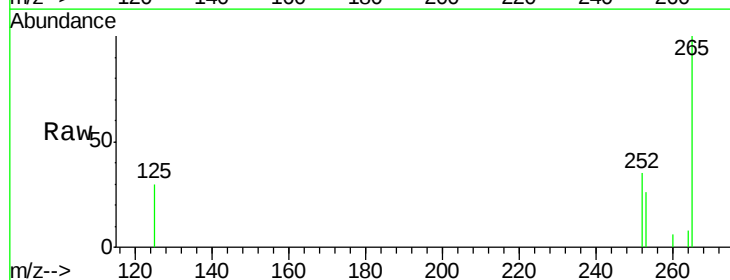
Instrument :
 BNA_E
 ClientSampleId :
 PB89421BL

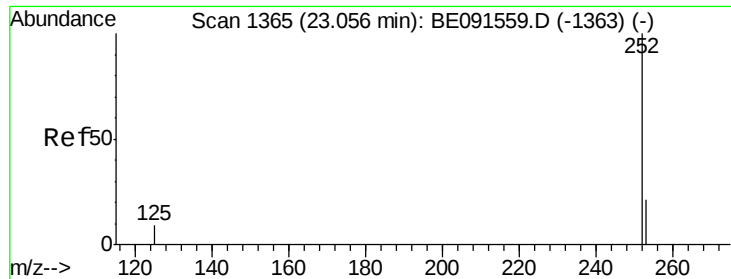
Tot Ion:264 Resp: 288664
 Ion Ratio Lower Upper
 264 100
 260 23.5 20.1 30.1
 265 23.2 18.3 27.5



#29
 Benzo(b)fluoranthene
 Concen: 0.00 ng
 RT: 23.01 min Scan# 1361
 Delta R.T. -0.02 min
 Lab File: BE091596.D
 Acq: 1 Apr 2016 18:43

Tgt Ion:252 Resp: 334
 Ion Ratio Lower Upper
 252 100
 253 74.4 18.7 28.1#
 125 84.4 9.8 14.6#





#30

Benzo(k)fluoranthene

Concen: 0.00 ng

RT: 23.07 min Scan# 1366

Delta R.T. -0.01 min

Lab File: BE091596.D

Acq: 1 Apr 2016 18:43

Instrument :

BNA_E

ClientSampleId :

PB89421BL

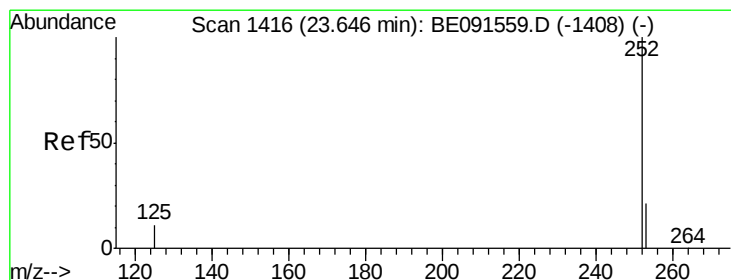
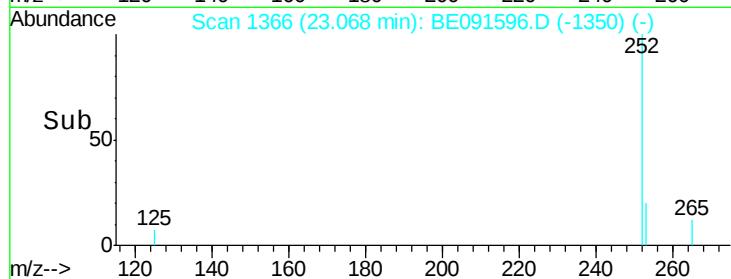
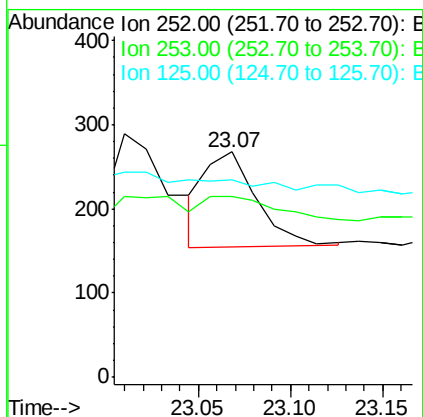
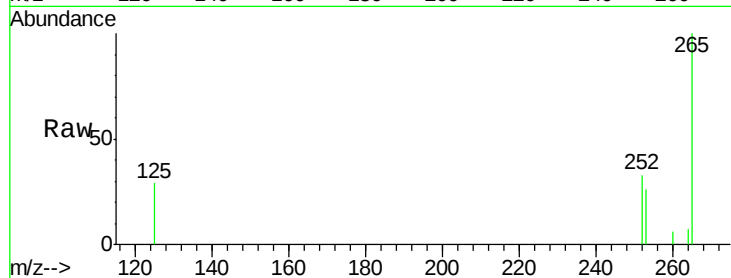
Tot Ion:252 Resp: 221

Ion Ratio Lower Upper

252 100

253 80.2 20.2 30.4#

125 87.7 9.4 14.2#



#31

Benzo(a)pyrene

Concen: 0.00 ng

RT: 23.65 min Scan# 1416

Delta R.T. -0.03 min

Lab File: BE091596.D

Acq: 1 Apr 2016 18:43

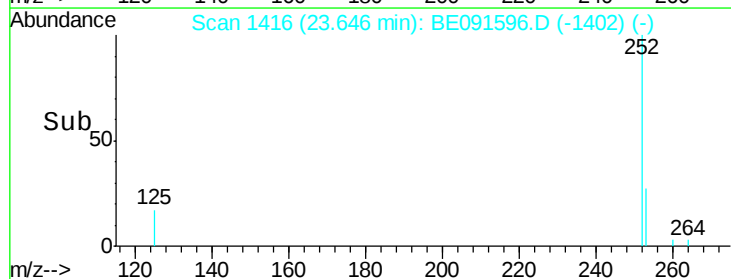
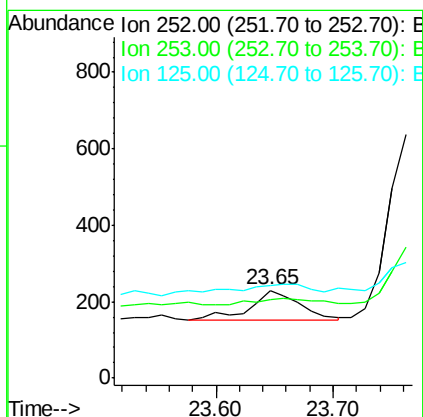
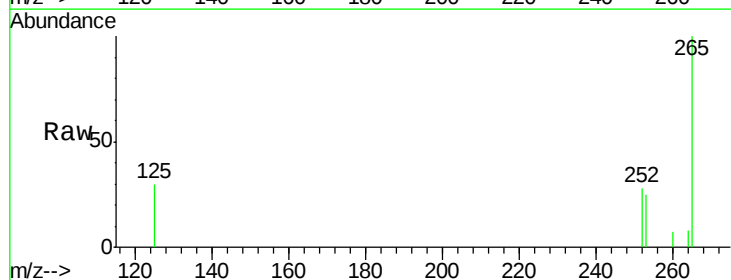
Tgt Ion:252 Resp: 221

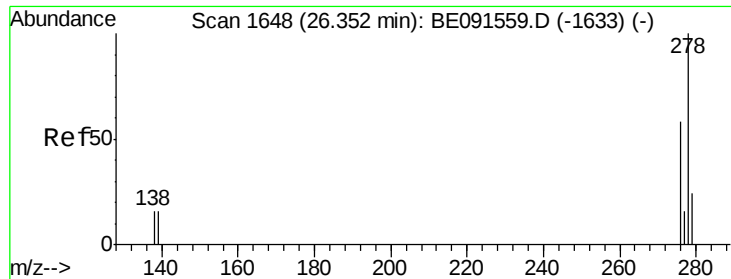
Ion Ratio Lower Upper

252 100

253 89.6 19.4 29.0#

125 104.8 11.4 17.2#





#32

Dibenzo(a,h)anthracene

Concen: 0.01 ng

RT: 26.36 min Scan# 1649

Delta R.T. -0.03 min

Lab File: BE091596.D

Acq: 1 Apr 2016 18:43

Instrument :

BNA_E

ClientSampleId :

PB89421BL

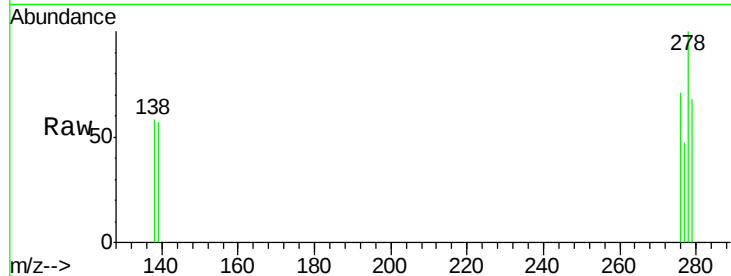
Tot Ion:278 Resp: 447

Ion Ratio Lower Upper

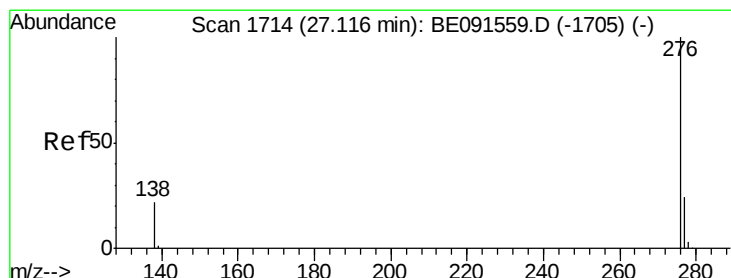
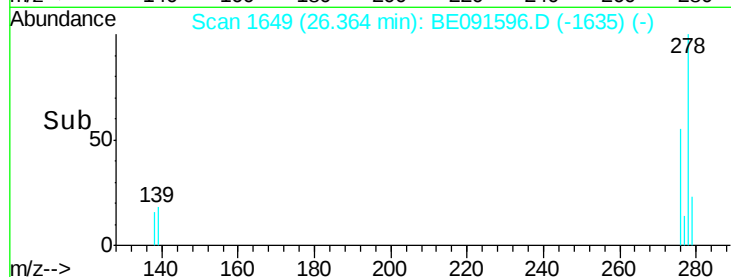
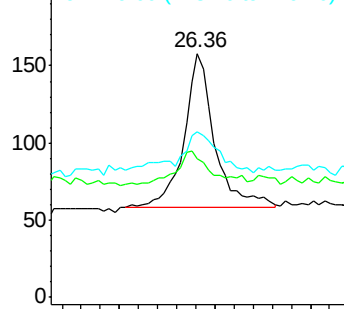
278 100

139 57.0 14.2 21.4#

279 67.7 19.6 29.4#



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



#33

Benzo(g,h,i)perylene

Concen: 0.00 ng

RT: 27.13 min Scan# 1715

Delta R.T. -0.03 min

Lab File: BE091596.D

Acq: 1 Apr 2016 18:43

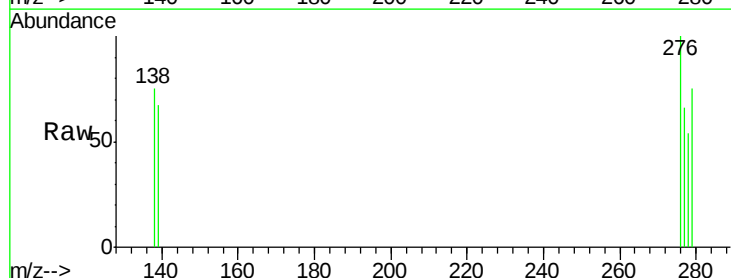
Tgt Ion:276 Resp: 228

Ion Ratio Lower Upper

276 100

277 66.4 19.4 29.2#

138 74.5 18.2 27.4#



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

