

Data Path : Z:\HPCHEM1\BNA E\DATA\BE031716\
 Data File : BE091465.D
 Acq On : 17 Mar 2016 14:10
 Operator : UM/SJ
 Sample : H1746-01MS
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :

Quant Time: Mar 17 14:54:10 2016
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\SIM-BE031616.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Mar 17 15:28:00 2016
 Response via : Initial Calibration

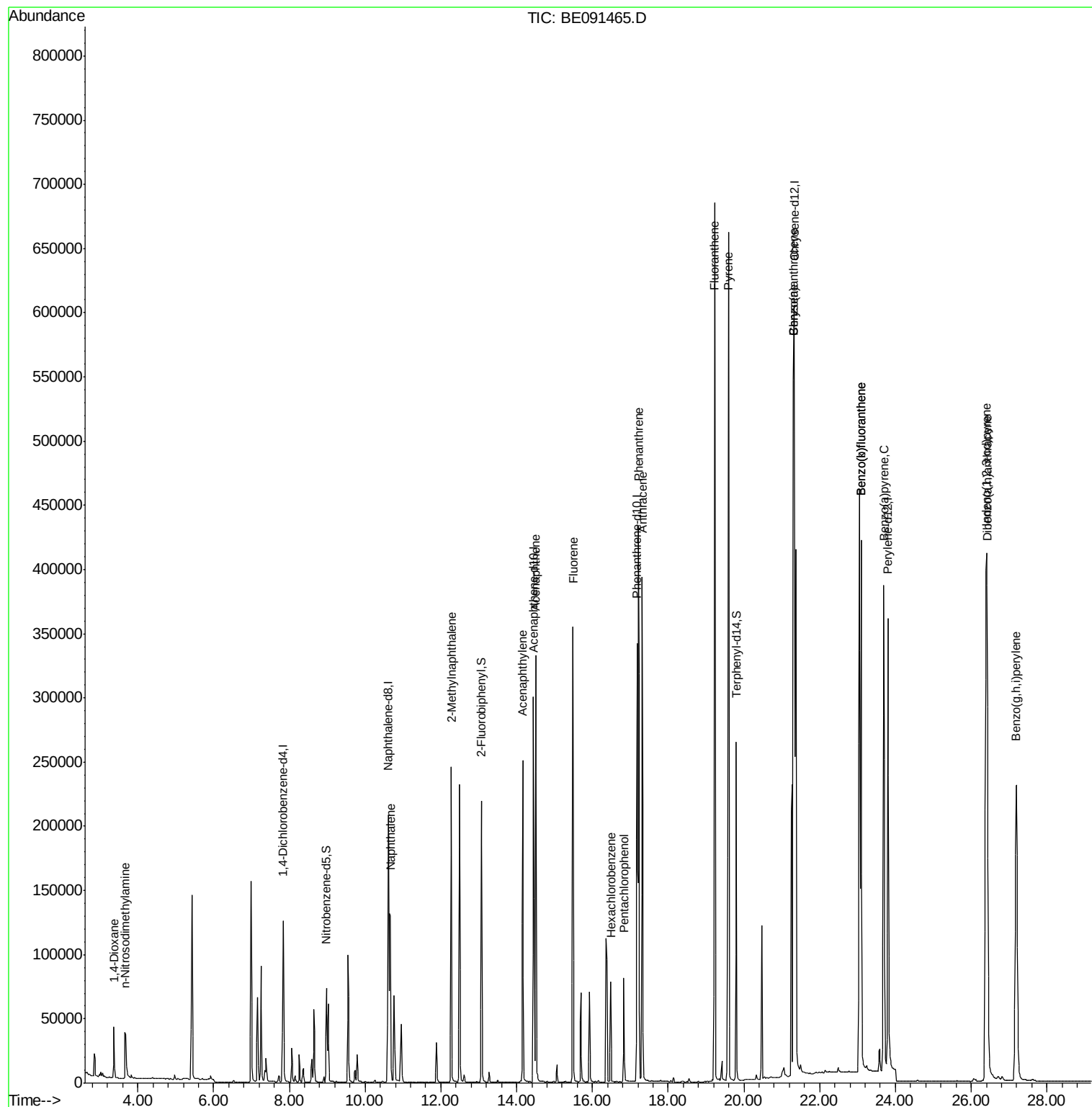
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.84	152	61926	5.00	ng	0.00
4) Naphthalene-d8	10.61	136	292027	5.00	ng	0.00
8) Acenaphthene-d10	14.45	164	180764	5.00	ng	0.00
13) Phenanthrene-d10	17.18	188	425663	5.00	ng	0.00
19) Chrysene-d12	21.33	240	545585	5.00	ng	0.00
25) Perylene-d12	23.81	264	523895	5.00	ng	0.00
System Monitoring Compounds						
5) Nitrobenzene-d5	8.98	82	65839	4.16	ng	0.00
9) 2-Fluorobiphenyl	13.07	172	229435	4.92	ng	-0.01
21) Terphenyl-d14	19.80	244	349602	4.31	ng	0.00
Target Compounds						Ovalue
2) 1,4-Dioxane	3.37	88	26971	3.72	ng	# 100
3) n-Nitrosodimethylamine	3.66	42	38200	3.21	ng	# 100
6) Naphthalene	10.67	128	254716	3.55	ng	98
7) 2-Methylnaphthalene	12.27	142	186224	3.98	ng	91
10) Acenaphthylene	14.16	152	294862	3.74	ng	# 100
11) Acenaphthene	14.50	154	199648	3.59	ng	# 100
12) Fluorene	15.49	166	258616	3.60	ng	# 100
14) Hexachlorobenzene	16.48	284	71073	3.81	ng	# 100
15) Pentachlorophenol	16.83	266	55506	5.53	ng	90
16) Phenanthrene	17.22	178	488857	4.02	ng	# 100
17) Anthracene	17.31	178	425890	3.92	ng	# 100
18) Fluoranthene	19.23	202	665242	4.79	ng	# 69
20) Pyrene	19.59	202	670191	4.31	ng	# 92
22) Benzo(a)anthracene	21.31	228	776476	4.06	ng	97
23) Chrysene	21.31	228	776288	6.30	ng	# 88
24) Indeno(1,2,3-cd)pyrene	26.40	276	670393	3.67	ng	# 100
26) Benzo(b)fluoranthene	23.09	252	626775	3.51	ng	92
27) Benzo(k)fluoranthene	23.09	252	626775	3.79	ng	# 92
28) Benzo(a)pyrene	23.69	252	608123	4.00	ng	# 92
29) Dibenzo(a,h)anthracene	26.42	278	546184	3.71	ng	96
30) Benzo(g,h,i)perylene	27.18	276	574318	3.73	ng	98

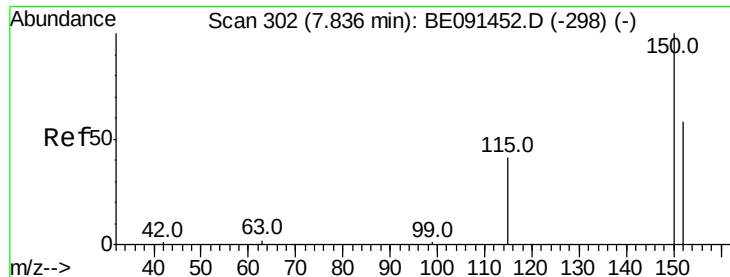
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 7.84 min Scan# 302

Delta R.T. 0.00 min

Lab File: BE091465.D

Acq: 17 Mar 2016 14:10

Instrument :

BNA_E

ClientSampleId :

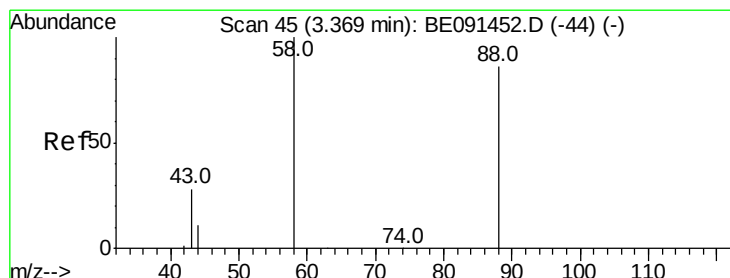
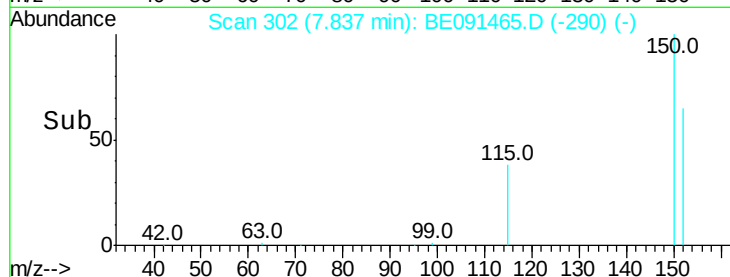
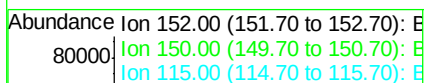
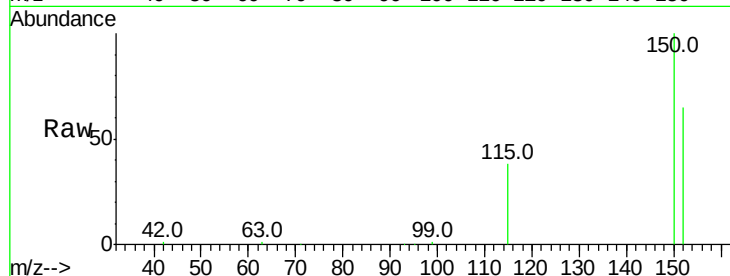
Tot Ion:152 Resp: 61926

Ion Ratio Lower Upper

152 100

150 154.3 136.8 205.2

115 59.0 56.9 85.3



#2

1,4-Dioxane

Concen: 3.72 ng

RT: 3.37 min Scan# 45

Delta R.T. 0.00 min

Lab File: BE091465.D

Acq: 17 Mar 2016 14:10

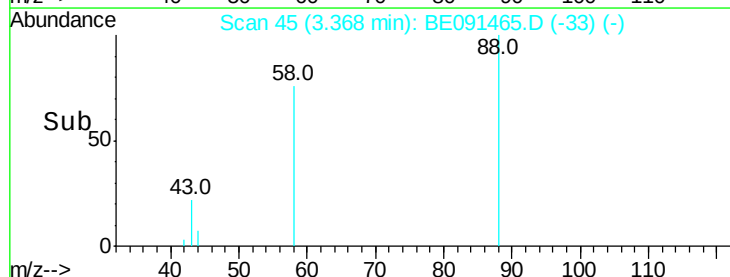
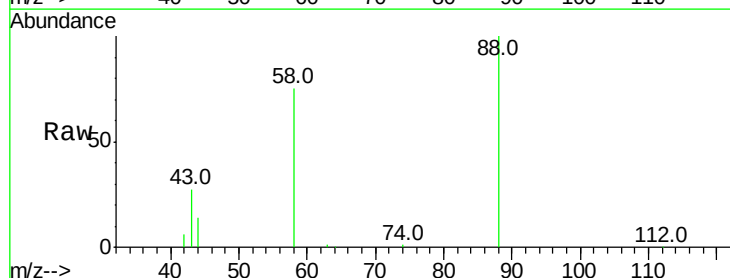
Tgt Ion: 88 Resp: 26971

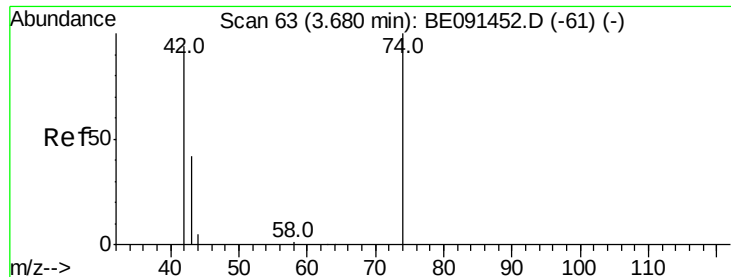
Ion Ratio Lower Upper

88 100

58 78.6 0.0 0.0#

43 32.9 0.0 0.0#





#3

n-Nitrosodimethylamine

Concen: 3.21 ng

RT: 3.66 min Scan# 62

Delta R.T. -0.02 min

Lab File: BE091465.D

Acq: 17 Mar 2016 14:10

Instrument :

BNA_E

ClientSampleId :

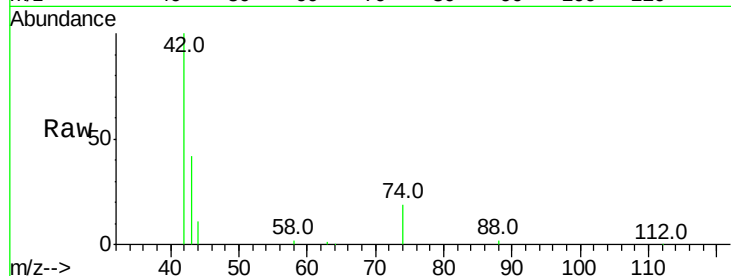
Tot Ion: 42 Resp: 38200

Ion Ratio Lower Upper

42 100

74 96.3 0.0 0.0#

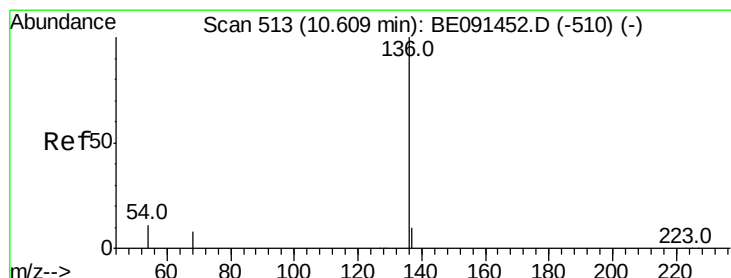
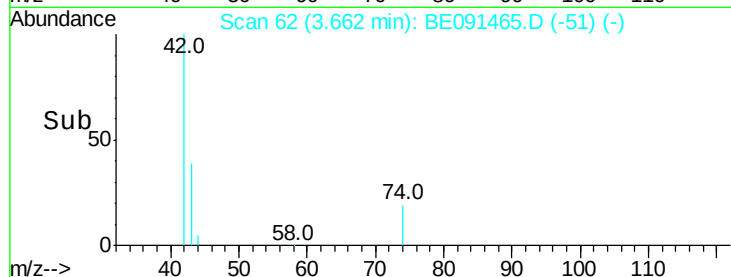
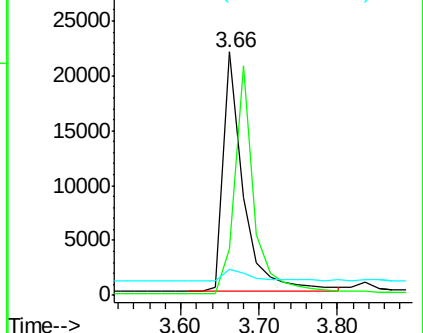
44 7.0 0.0 0.0#



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

Naphthalene-d8

Concen: 5.00 ng

RT: 10.61 min Scan# 513

Delta R.T. 0.00 min

Lab File: BE091465.D

Acq: 17 Mar 2016 14:10

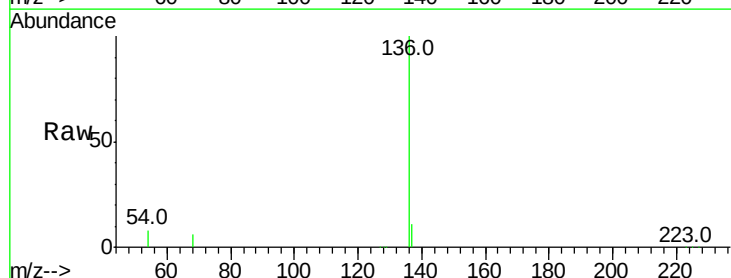
Tgt Ion: 136 Resp: 292027

Ion Ratio Lower Upper

136 100

137 10.8 8.0 12.0

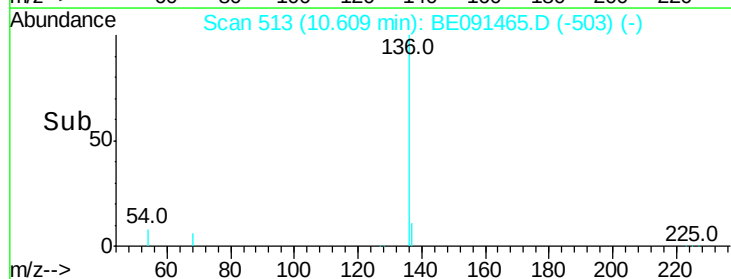
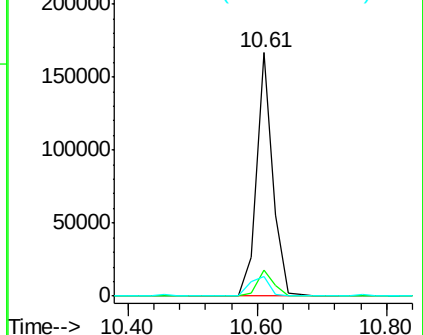
54 8.2 9.1 13.7#

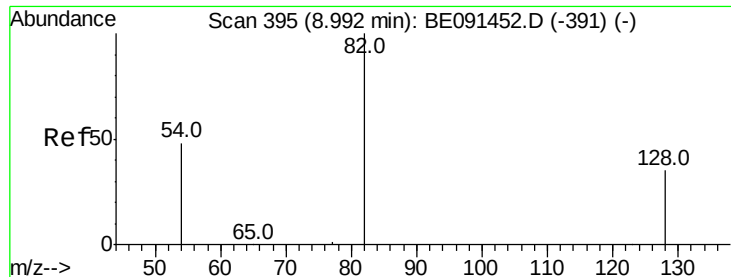


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BE0





#5

Nitrobenzene-d5

Concen: 4.16 ng

RT: 8.98 min Scan# 394

Delta R.T. -0.01 min

Lab File: BE091465.D

Acq: 17 Mar 2016 14:10

Instrument :

BNA_E

ClientSampleId :

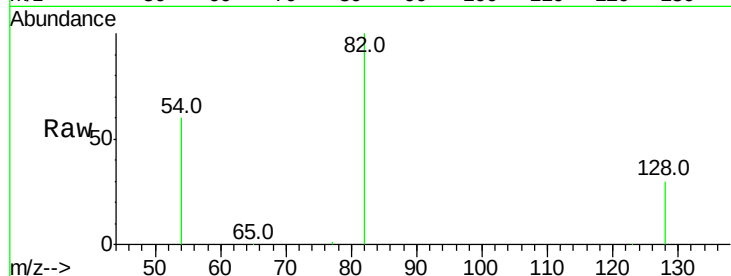
Tot Ion: 82 Resp: 65839

Ion Ratio Lower Upper

82 100

128 29.9 29.4 44.2

54 60.2 39.8 59.8#

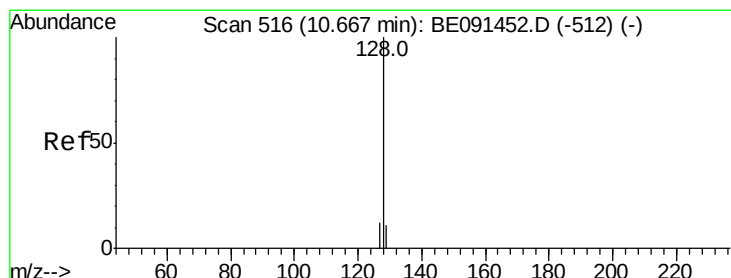
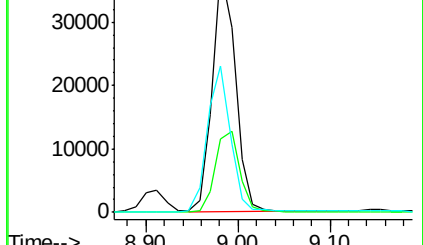
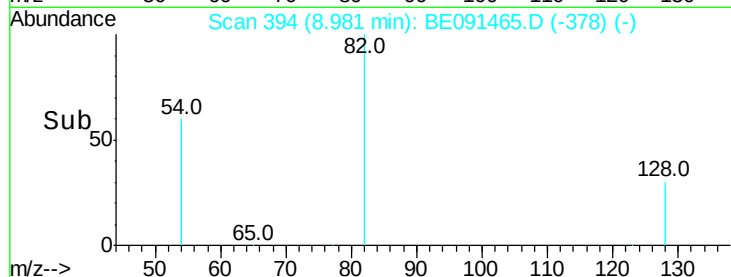


Abundance Ion 82.00 (81.70 to 82.70): BE091452.D (-391) (-)

Ion 128.00 (127.70 to 128.70): BE091452.D (-391) (-)

Ion 54.00 (53.70 to 54.70): BE091452.D (-391) (-)

Time-->



#6

Naphthalene

Concen: 3.55 ng

RT: 10.67 min Scan# 516

Delta R.T. 0.00 min

Lab File: BE091465.D

Acq: 17 Mar 2016 14:10

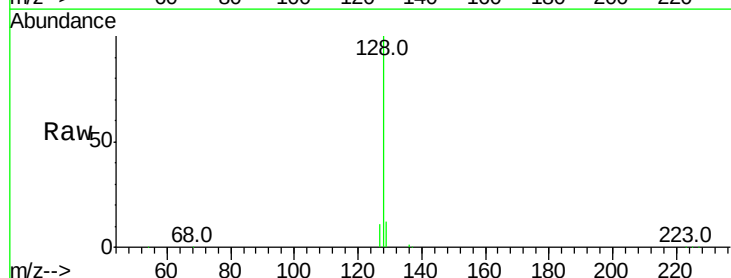
Tgt Ion: 128 Resp: 254716

Ion Ratio Lower Upper

128 100

129 12.3 9.4 14.0

127 11.1 9.7 14.5

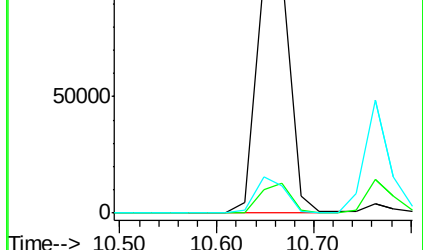
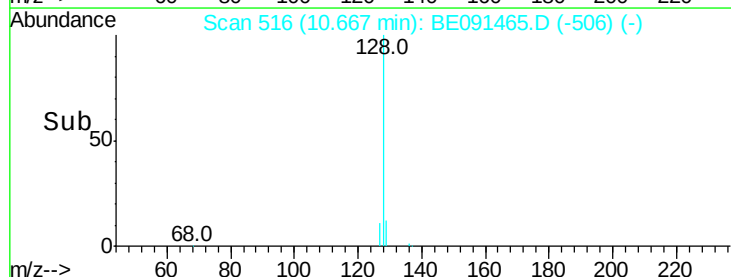


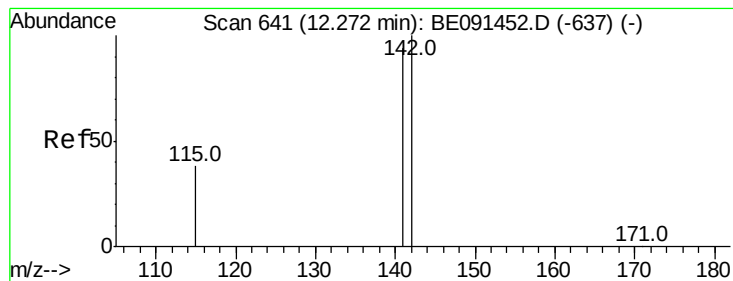
Abundance Ion 128.00 (127.70 to 128.70): BE091452.D (-512) (-)

Ion 129.00 (128.70 to 129.70): BE091452.D (-512) (-)

Ion 127.00 (126.70 to 127.70): BE091452.D (-512) (-)

Time-->





#7

2-Methylnaphthalene

Concen: 3.98 ng

RT: 12.27 min Scan# 641

Delta R.T. -0.00 min

Lab File: BE091465.D

Acq: 17 Mar 2016 14:10

Instrument :

BNA_E

ClientSampleId :

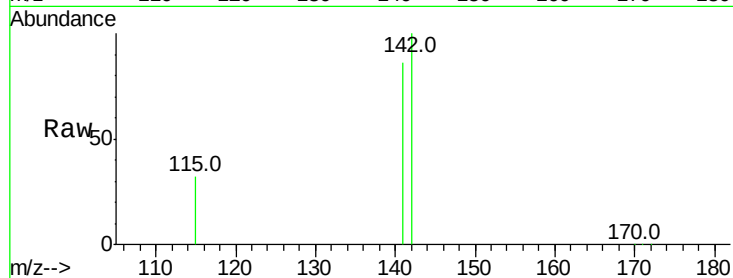
Tot Ion:142 Resp: 186224

Ion Ratio Lower Upper

142 100

141 86.0 75.0 112.4

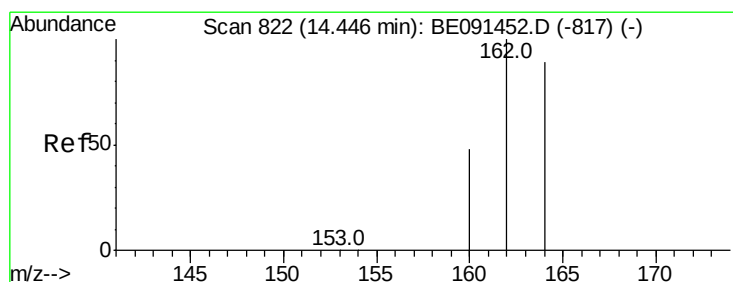
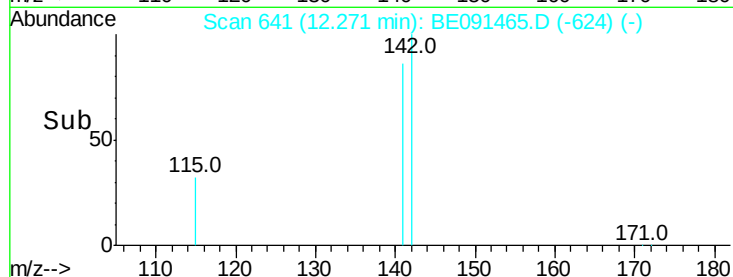
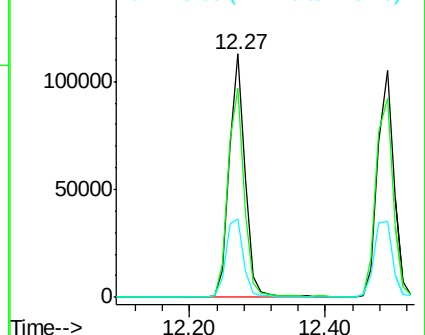
115 32.1 30.8 46.2



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: 14.45 min Scan# 822

Delta R.T. -0.00 min

Lab File: BE091465.D

Acq: 17 Mar 2016 14:10

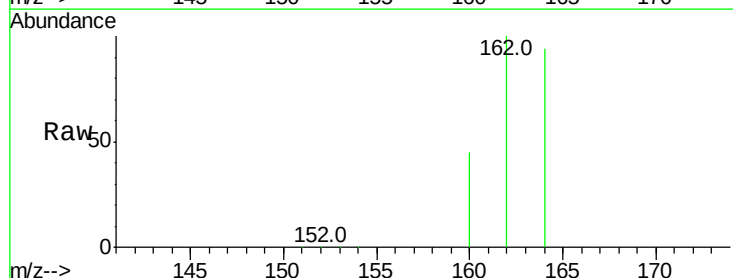
Tgt Ion:164 Resp: 180764

Ion Ratio Lower Upper

164 100

162 106.1 89.8 134.8

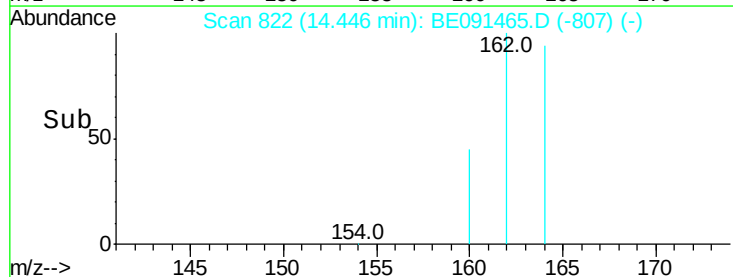
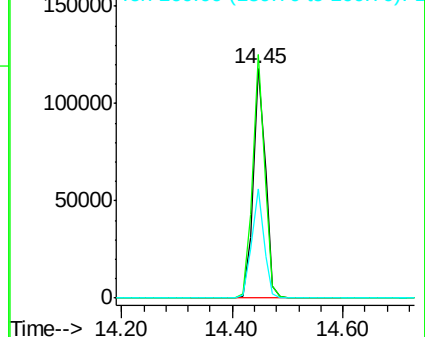
160 47.8 43.1 64.7

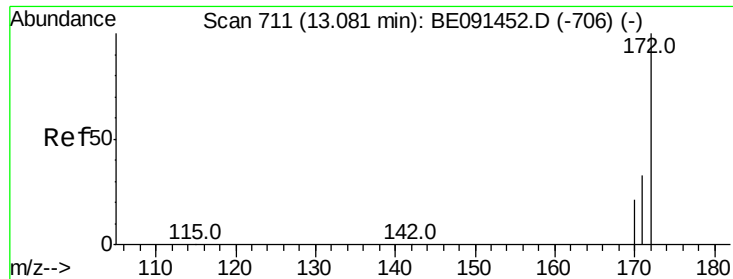


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E





#9

2-Fluorobiphenyl

Concen: 4.92 ng

RT: 13.07 min Scan# 710

Delta R.T. -0.01 min

Lab File: BE091465.D

Acq: 17 Mar 2016 14:10

Instrument :

BNA_E

ClientSampleId :

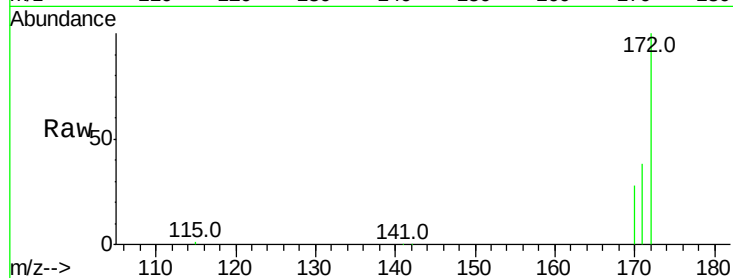
Tot Ion:172 Resp: 229435

Ion Ratio Lower Upper

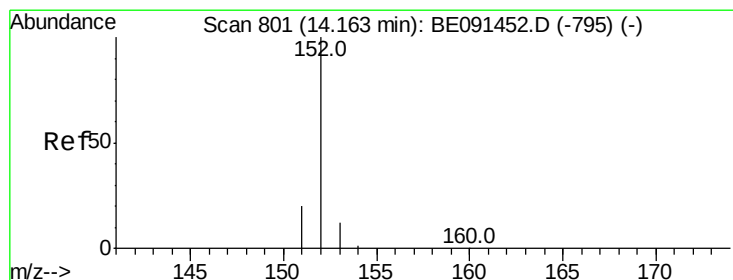
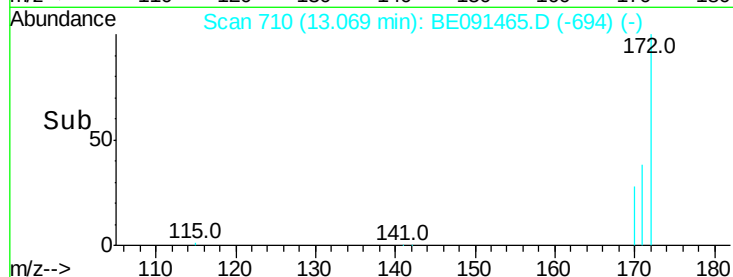
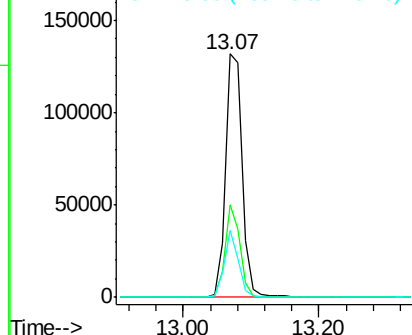
172 100

171 38.0 26.7 40.1

170 27.7 17.4 26.2#



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



#10

Acenaphthylene

Concen: 3.74 ng

RT: 14.16 min Scan# 801

Delta R.T. -0.00 min

Lab File: BE091465.D

Acq: 17 Mar 2016 14:10

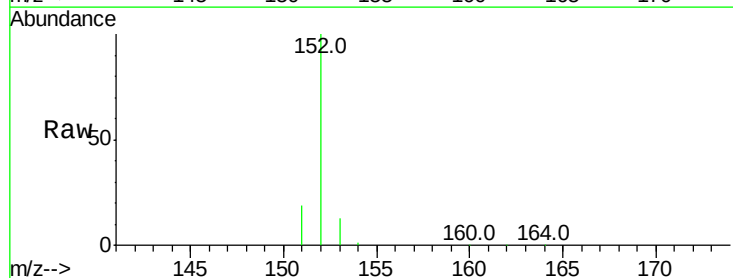
Tgt Ion:152 Resp: 294862

Ion Ratio Lower Upper

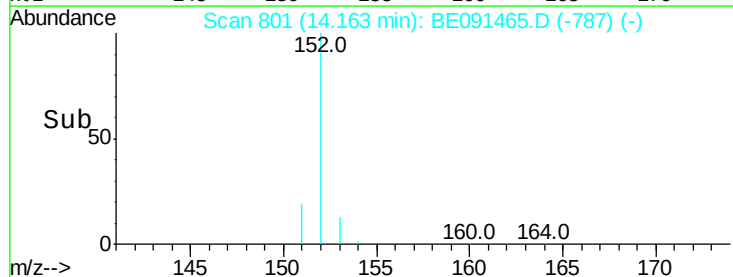
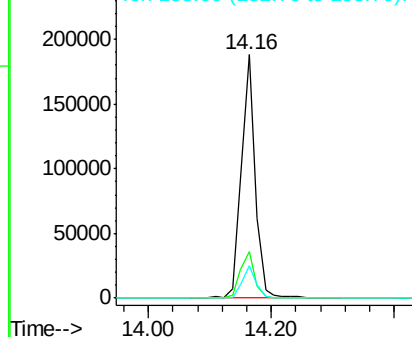
152 100

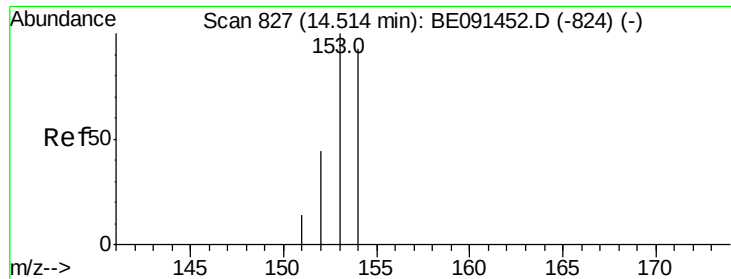
151 19.8 0.0 0.0#

153 13.1 0.0 0.0#



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

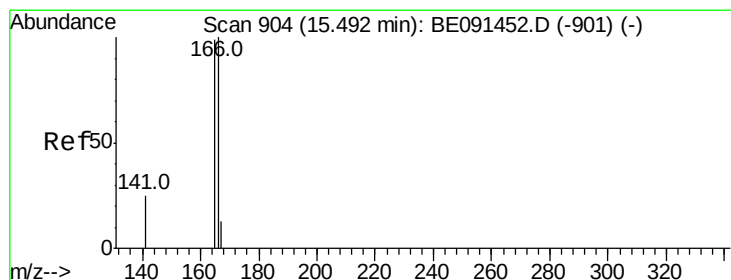
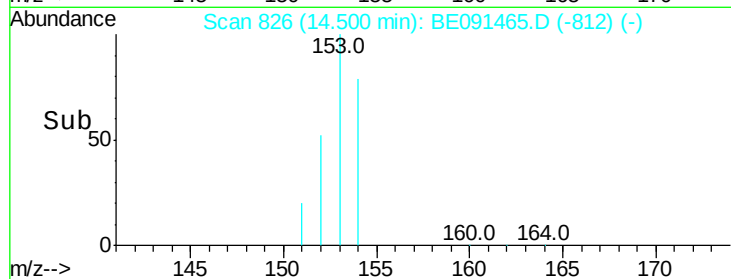
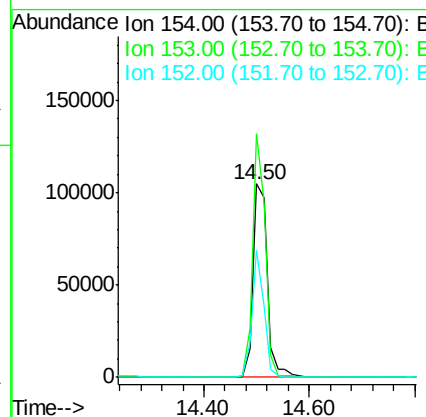
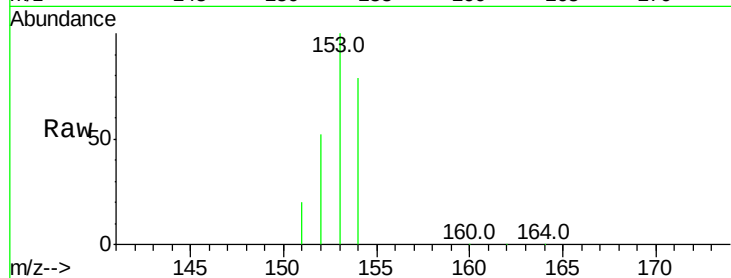




#11
Acenaphthene
Concen: 3.59 ng
RT: 14.50 min Scan# 826
Delta R.T. -0.01 min
Lab File: BE091465.D
Acq: 17 Mar 2016 14:10

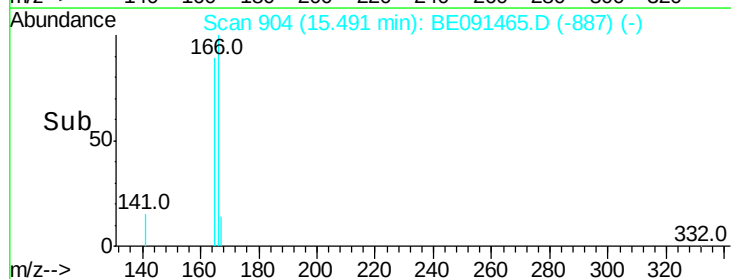
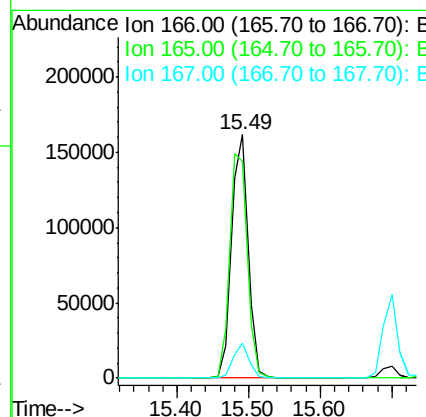
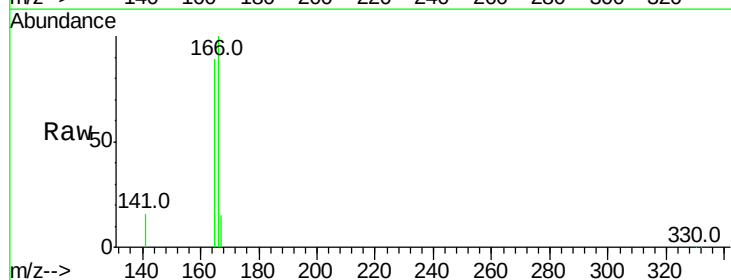
Instrument :
BNA_E
ClientSampleId :

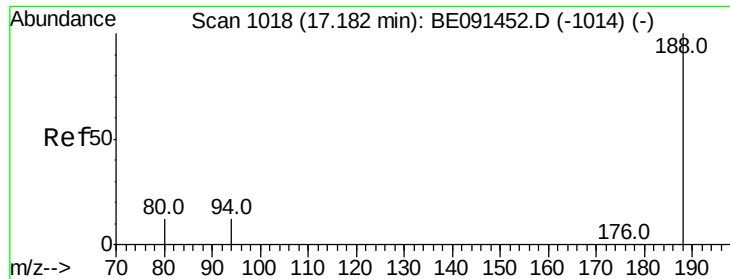
Tot Ion:154 Resp: 199648
Ion Ratio Lower Upper
154 100
153 108.4 0.0 0.0#
152 53.3 0.0 0.0#



#12
Fluorene
Concen: 3.60 ng
RT: 15.49 min Scan# 904
Delta R.T. -0.00 min
Lab File: BE091465.D
Acq: 17 Mar 2016 14:10

Tgt Ion:166 Resp: 258616
Ion Ratio Lower Upper
166 100
165 98.5 0.0 0.0#
167 13.8 0.0 0.0#

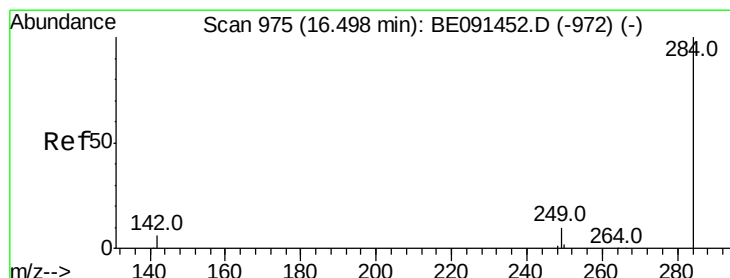
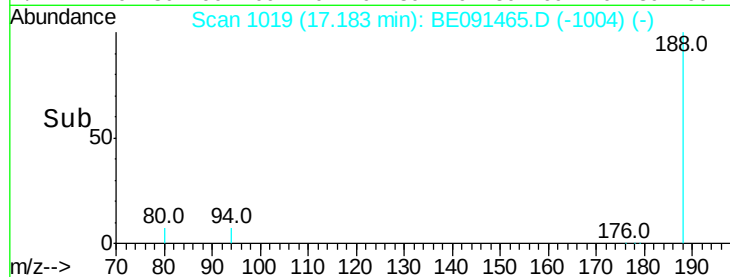
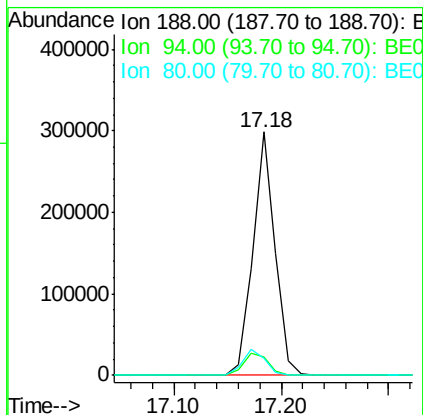
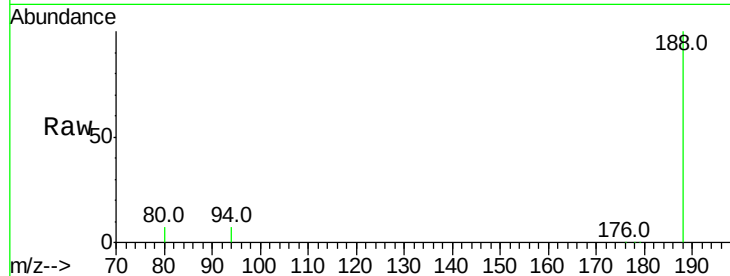




#13
Phenanthrene-d10
Concen: 5.00 ng
RT: 17.18 min Scan# 1019
Delta R.T. 0.00 min
Lab File: BE091465.D
Acq: 17 Mar 2016 14:10

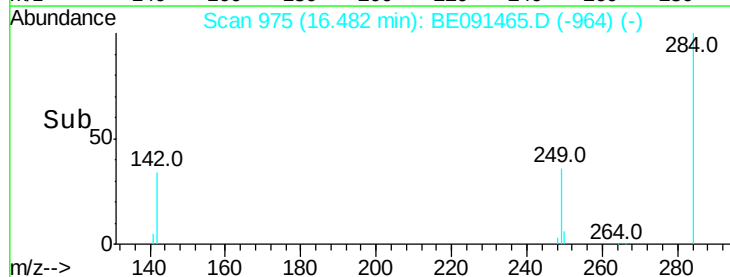
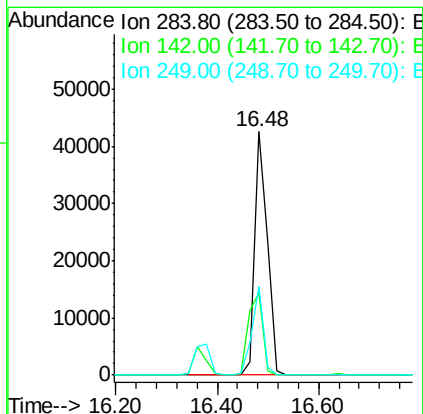
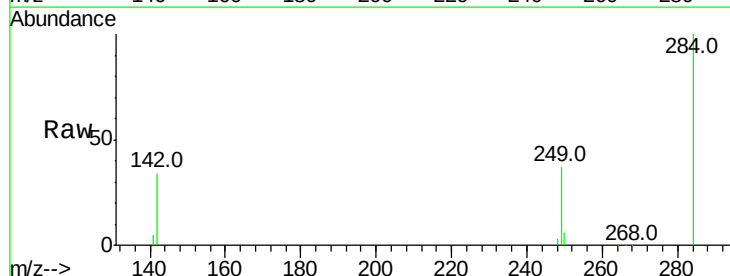
Instrument :
BNA_E
ClientSampleId :

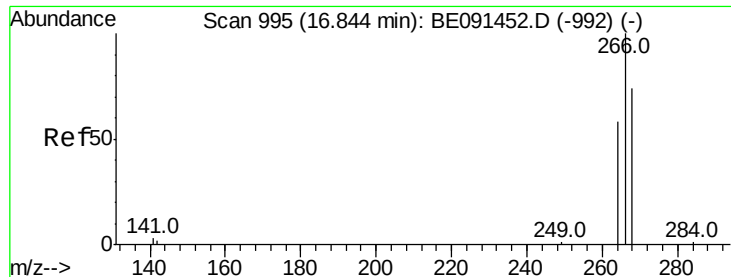
Tot Ion	Ratio	Lower	Upper
188	100		
94	7.5	9.5	14.3#
80	6.9	9.8	14.8#



#14
Hexachlorobenzene
Concen: 3.81 ng
RT: 16.48 min Scan# 975
Delta R.T. -0.02 min
Lab File: BE091465.D
Acq: 17 Mar 2016 14:10

Tgt Ion	Ratio	Lower	Upper
284	100		
142	38.7	0.0	0.0#
249	32.7	0.0	0.0#

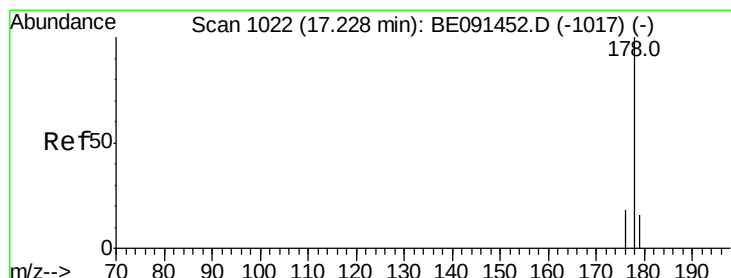
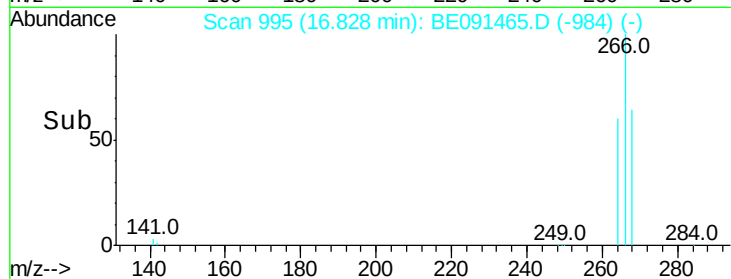
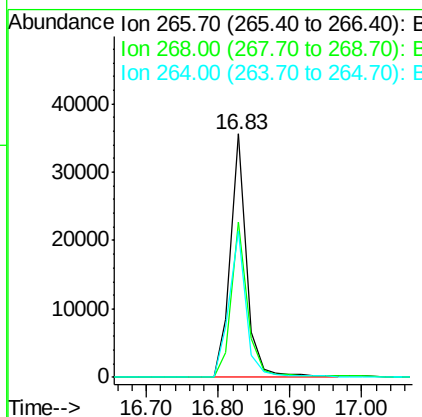
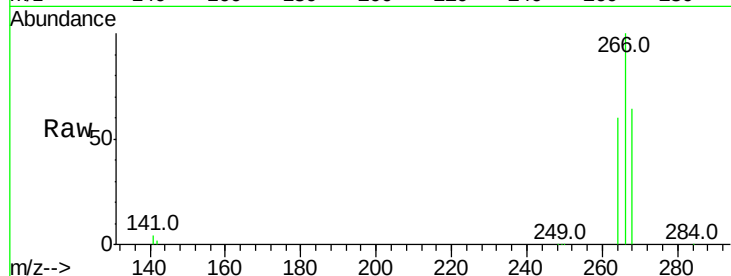




#15
 Pentachlorophenol
 Concen: 5.53 ng
 RT: 16.83 min Scan# 995
 Delta R.T. -0.01 min
 Lab File: BE091465.D
 Acq: 17 Mar 2016 14:10

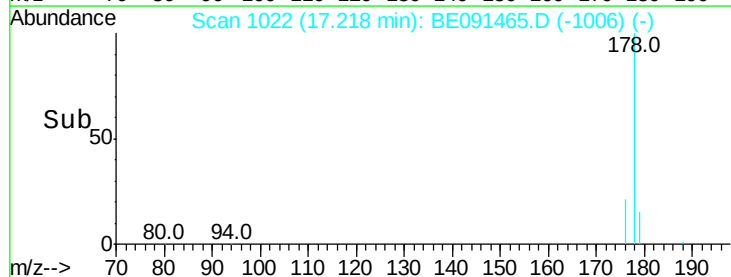
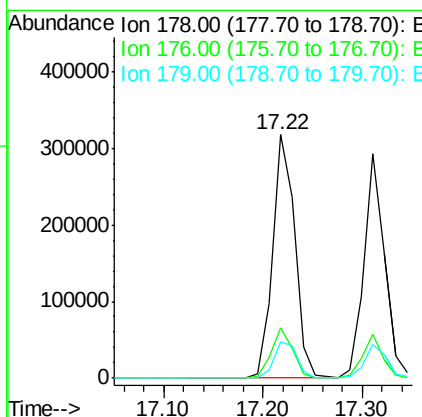
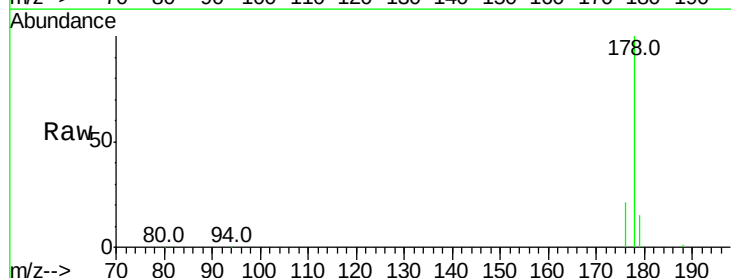
Instrument :
 BNA_E
 ClientSampleId :

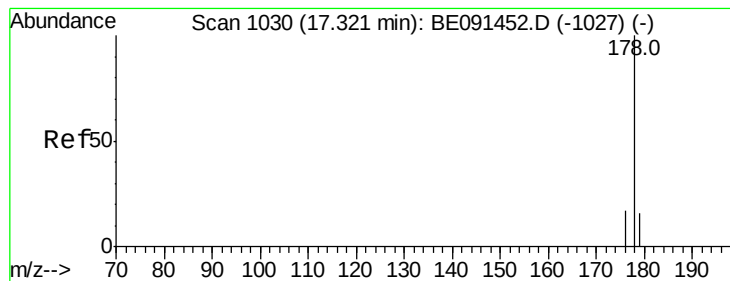
Tot Ion:266 Resp: 55506
 Ion Ratio Lower Upper
 266 100
 268 63.8 61.0 91.6
 264 60.1 45.7 68.5



#16
 Phenanthrene
 Concen: 4.02 ng
 RT: 17.22 min Scan# 1022
 Delta R.T. -0.01 min
 Lab File: BE091465.D
 Acq: 17 Mar 2016 14:10

Tgt Ion:178 Resp: 488857
 Ion Ratio Lower Upper
 178 100
 176 19.7 0.0 0.0#
 179 15.6 0.0 0.0#





#17

Anthracene

Concen: 3.92 ng

RT: 17.31 min Scan# 1030

Delta R.T. -0.01 min

Lab File: BE091465.D

Acq: 17 Mar 2016 14:10

Instrument :

BNA_E

ClientSampleId :

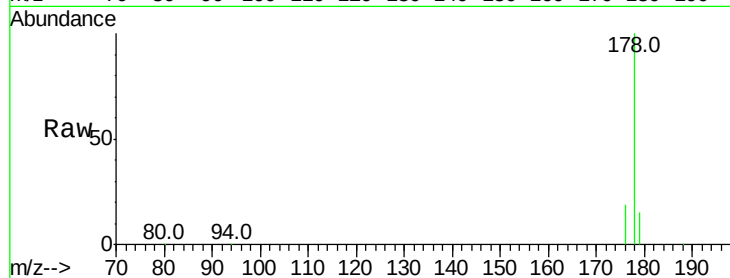
Tot Ion:178 Resp: 425890

Ion Ratio Lower Upper

178 100

176 19.0 0.0 0.0#

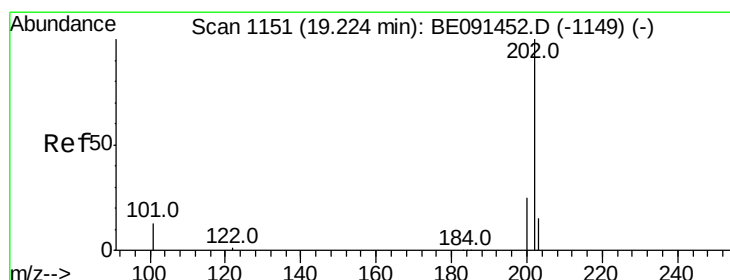
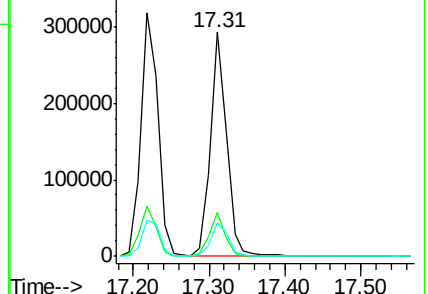
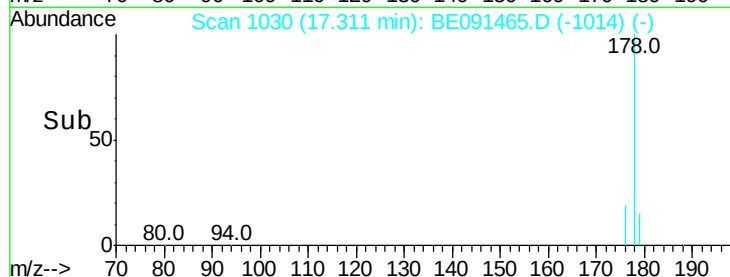
179 15.8 0.0 0.0#



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



#18

Fluoranthene

Concen: 4.79 ng

RT: 19.23 min Scan# 1152

Delta R.T. 0.00 min

Lab File: BE091465.D

Acq: 17 Mar 2016 14:10

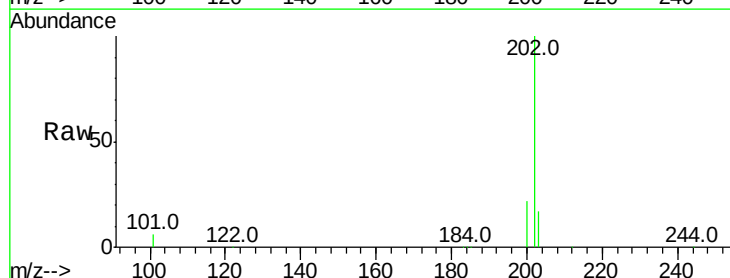
Tgt Ion:202 Resp: 665242

Ion Ratio Lower Upper

202 100

101 9.9 1.1 1.7#

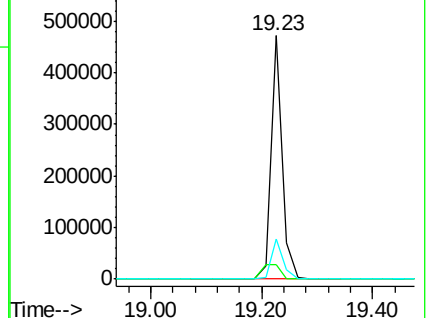
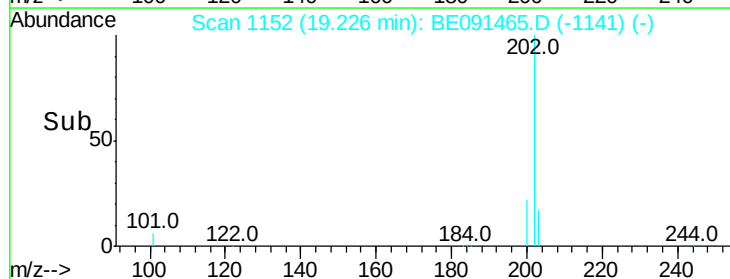
203 17.6 1.0 1.6#

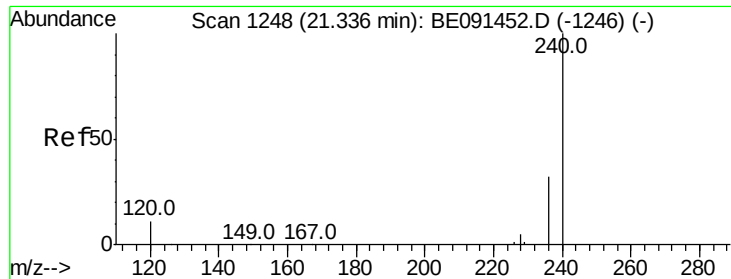


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E

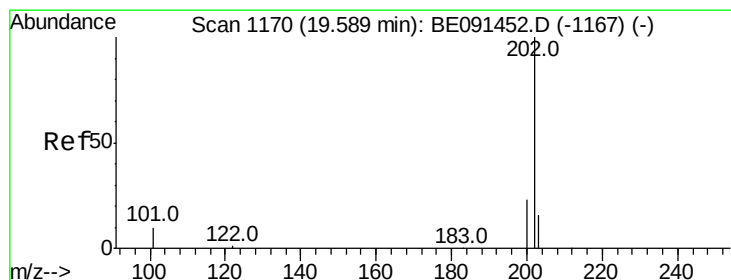
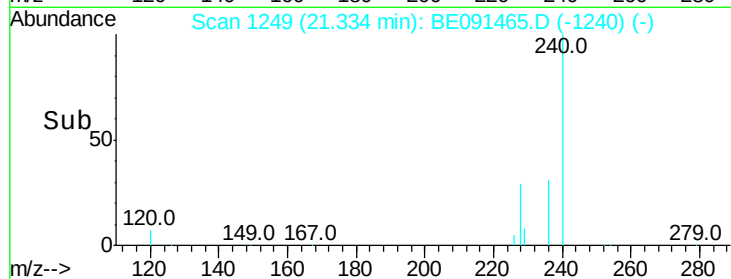
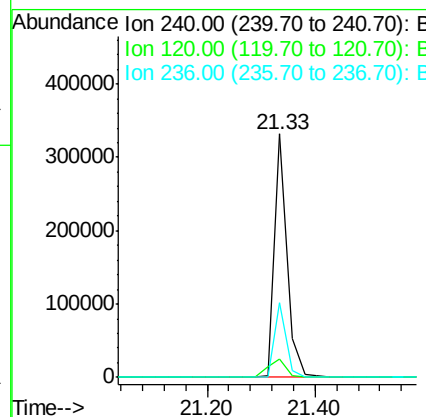
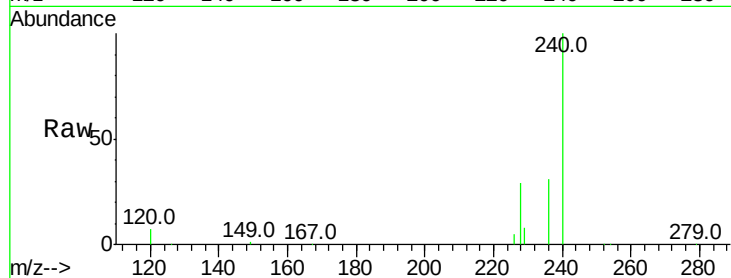




#19
Chrysene-d12
Concen: 5.00 ng
RT: 21.33 min Scan# 1249
Delta R.T. -0.00 min
Lab File: BE091465.D
Acq: 17 Mar 2016 14:10

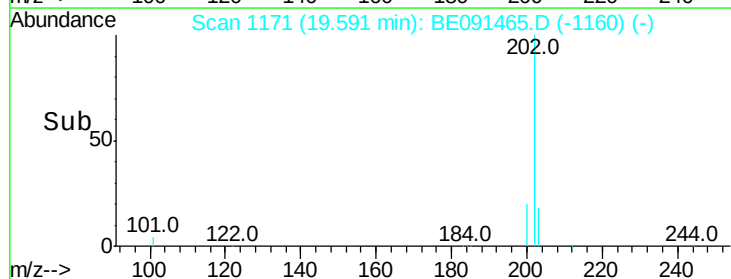
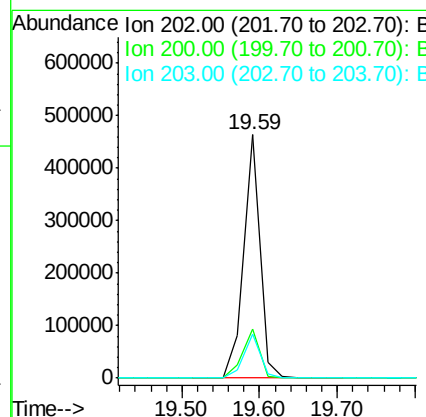
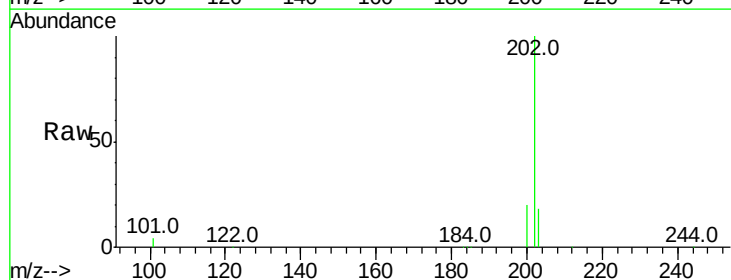
Instrument :
BNA_E
ClientSampleId :

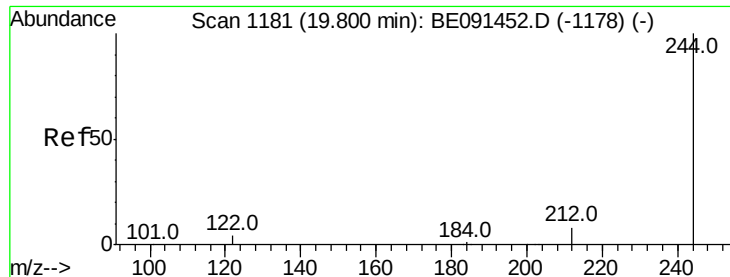
Tot Ion:240 Resp: 545585
Ion Ratio Lower Upper
240 100
120 7.4 8.8 13.2#
236 30.7 25.7 38.5



#20
Pyrene
Concen: 4.31 ng
RT: 19.59 min Scan# 1171
Delta R.T. 0.00 min
Lab File: BE091465.D
Acq: 17 Mar 2016 14:10

Tgt Ion:202 Resp: 670191
Ion Ratio Lower Upper
202 100
200 21.4 0.0 0.0#
203 18.6 0.1 0.1#





#21

Terphenyl-d14

Concen: 4.31 ng

RT: 19.80 min Scan# 1182

Delta R.T. 0.00 min

Lab File: BE091465.D

Acq: 17 Mar 2016 14:10

Instrument :

BNA_E

ClientSampleId :

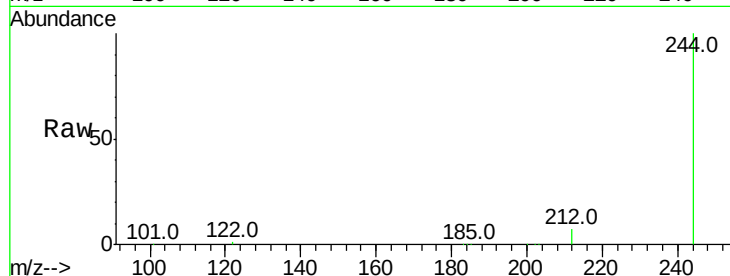
Tot Ion:244 Resp: 349602

Ion Ratio Lower Upper

244 100

212 6.8 6.6 10.0

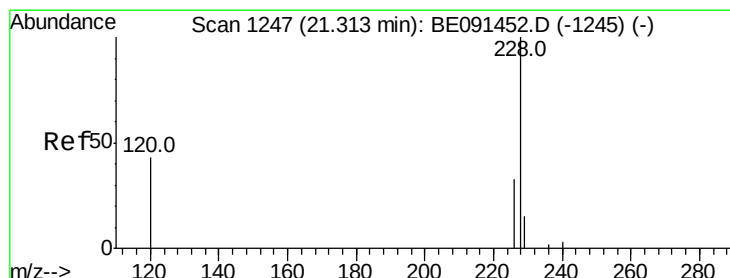
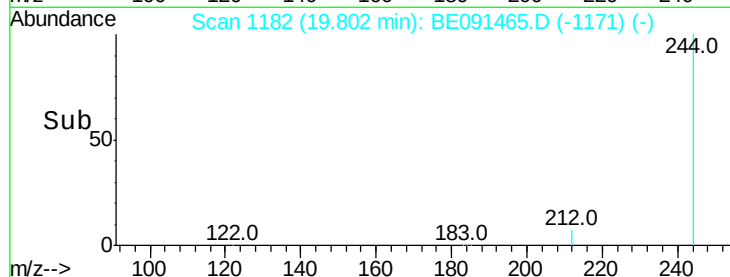
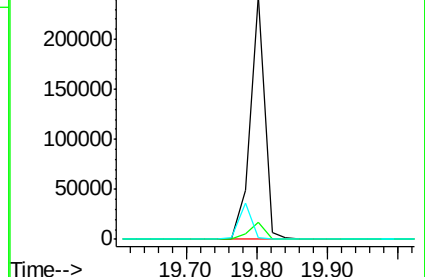
122 0.9 3.4 5.0#



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



#22

Benzo(a)anthracene

Concen: 4.06 ng

RT: 21.31 min Scan# 1248

Delta R.T. -0.00 min

Lab File: BE091465.D

Acq: 17 Mar 2016 14:10

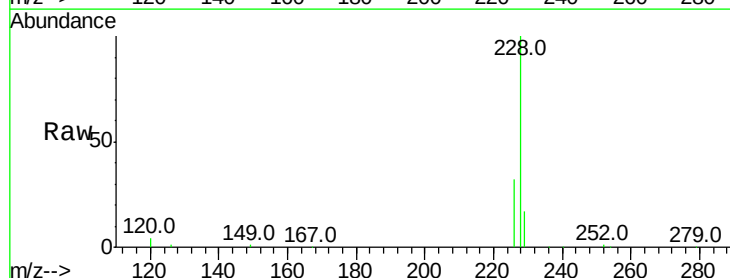
Tgt Ion:228 Resp: 776476

Ion Ratio Lower Upper

228 100

226 32.0 27.1 40.7

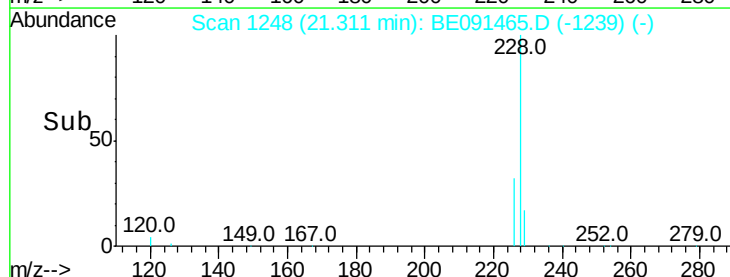
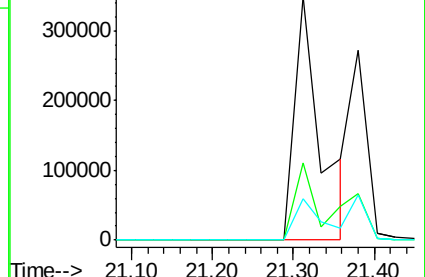
229 16.9 12.3 18.5

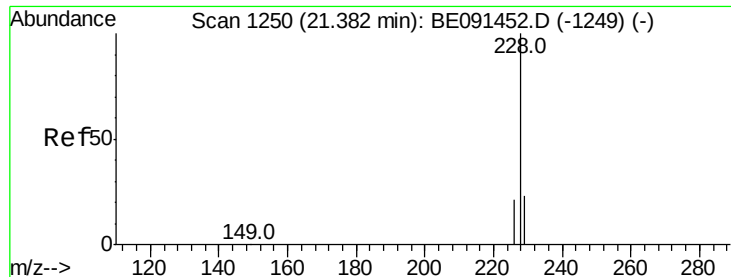


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#23

Chrysene

Concen: 6.30 ng

RT: 21.31 min Scan# 1248

Delta R.T. -0.07 min

Lab File: BE091465.D

Acq: 17 Mar 2016 14:10

Instrument :

BNA_E

ClientSampleId :

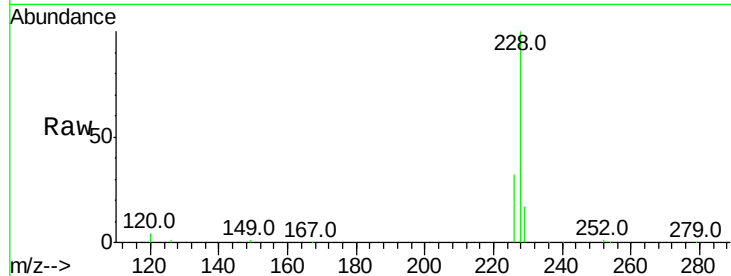
Tot Ion:228 Resp: 776288

Ion Ratio Lower Upper

228 100

226 32.0 20.3 30.5#

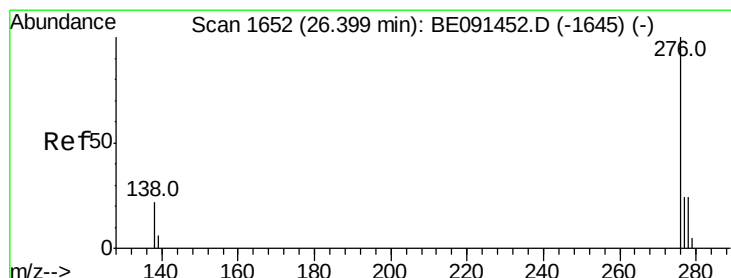
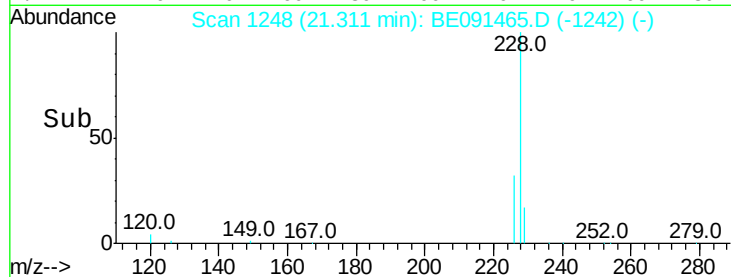
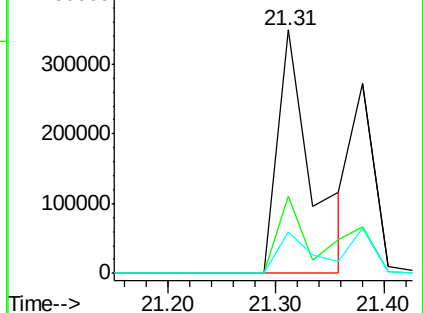
229 16.9 17.4 26.0#



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



#24

Indeno(1,2,3-cd)pyrene

Concen: 3.67 ng

RT: 26.40 min Scan# 1653

Delta R.T. -0.00 min

Lab File: BE091465.D

Acq: 17 Mar 2016 14:10

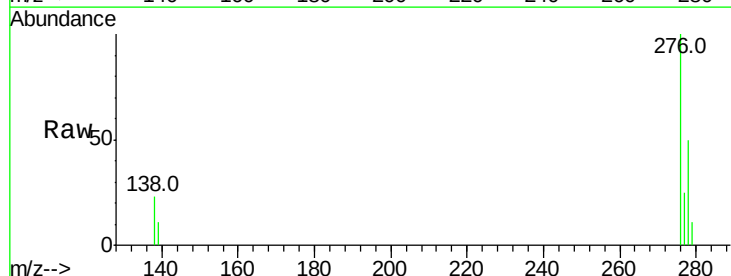
Tgt Ion:276 Resp: 670393

Ion Ratio Lower Upper

276 100

138 25.1 0.0 0.0#

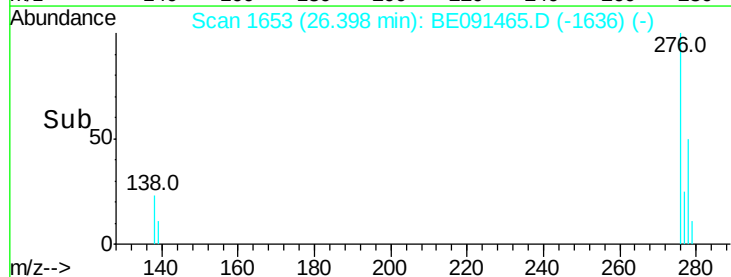
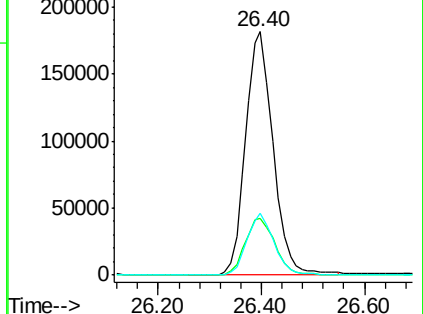
277 24.8 0.0 0.0#

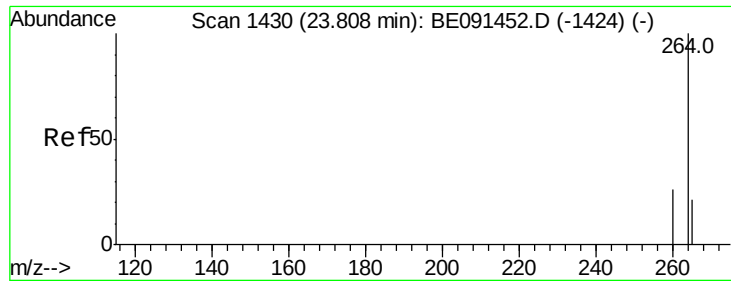


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

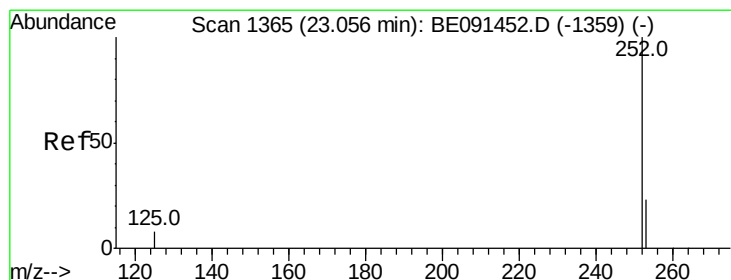
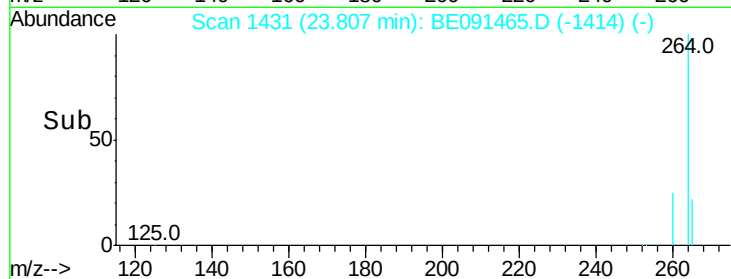
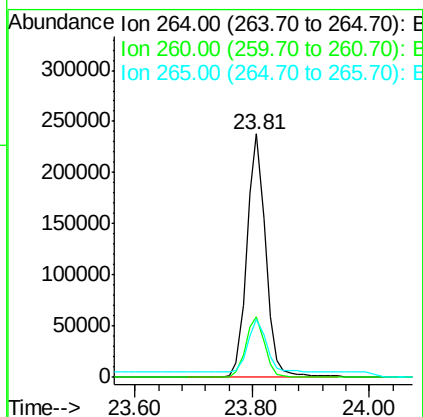
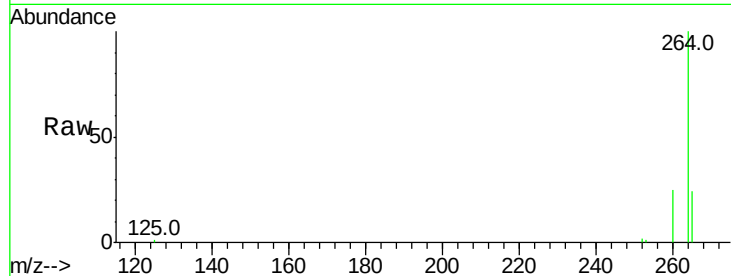




#25
Pervlene-d12
Concen: 5.00 ng
RT: 23.81 min Scan# 1431
Delta R.T. -0.00 min
Lab File: BE091465.D
Acq: 17 Mar 2016 14:10

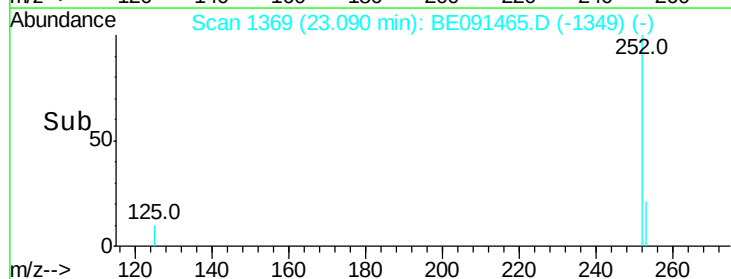
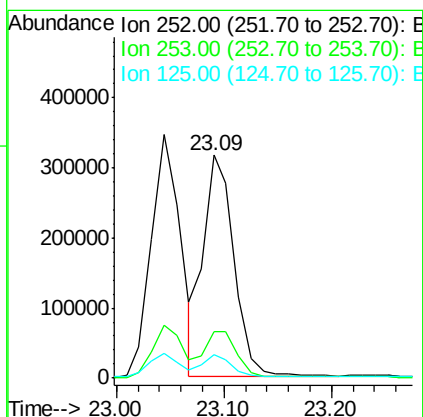
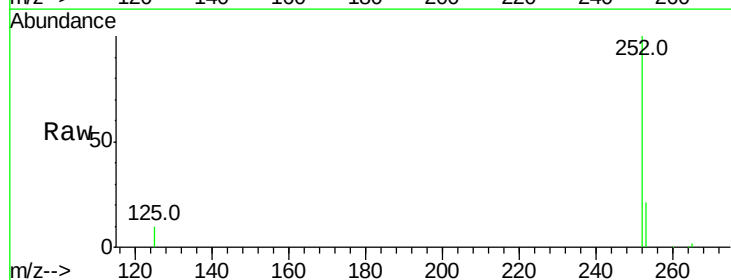
Instrument :
BNA_E
ClientSampleId :

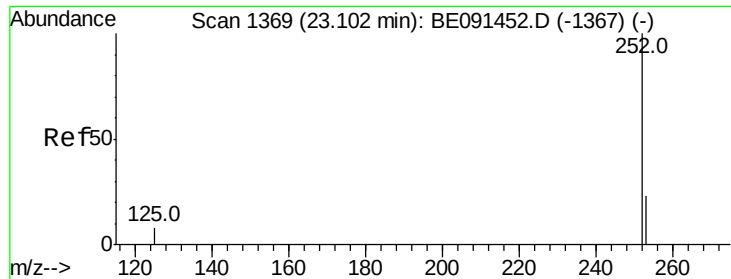
Tot Ion:264 Resp: 523895
Ion Ratio Lower Upper
264 100
260 25.1 20.7 31.1
265 23.8 19.4 29.2



#26
Benzo(b)fluoranthene
Concen: 3.51 ng
RT: 23.09 min Scan# 1369
Delta R.T. 0.03 min
Lab File: BE091465.D
Acq: 17 Mar 2016 14:10

Tgt Ion:252 Resp: 626775
Ion Ratio Lower Upper
252 100
253 21.1 20.6 30.8
125 10.4 10.2 15.4

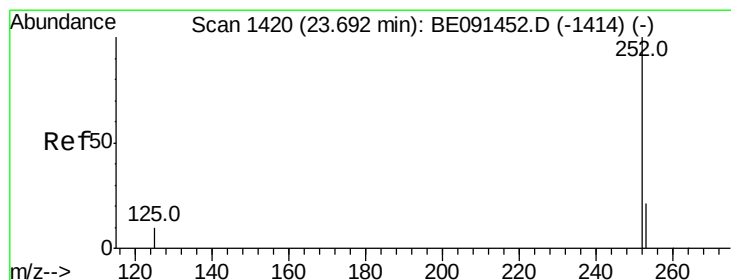
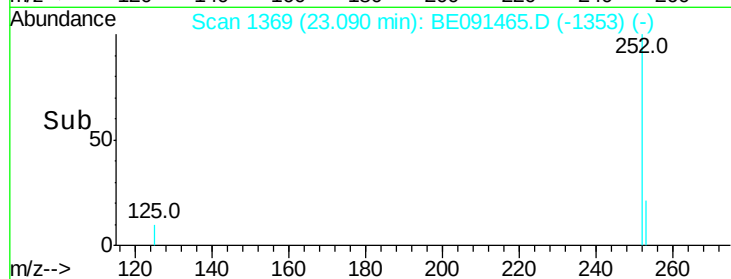
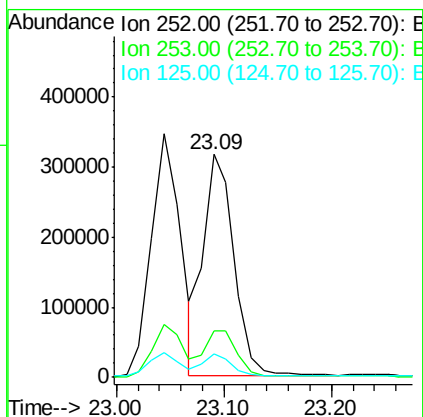
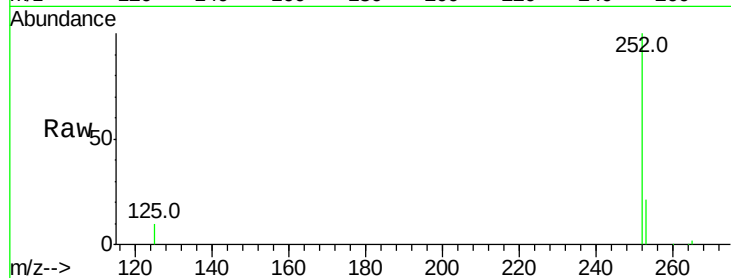




#27
Benzo(k)fluoranthene
Concen: 3.79 ng
RT: 23.09 min Scan# 1369
Delta R.T. -0.01 min
Lab File: BE091465.D
Acq: 17 Mar 2016 14:10

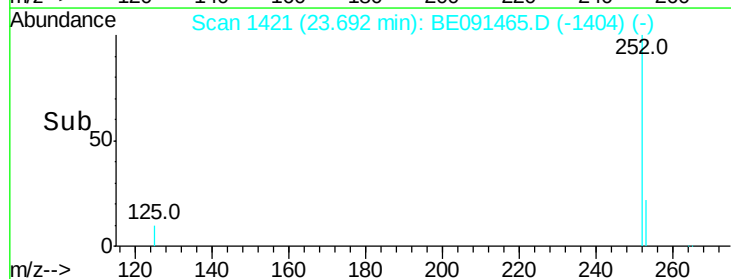
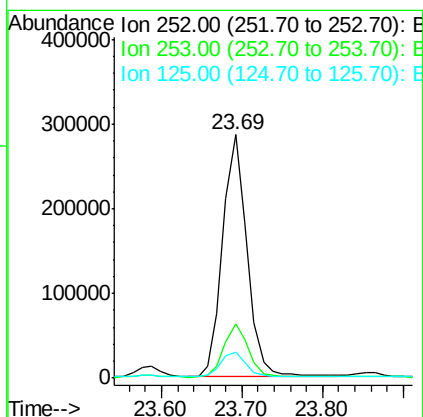
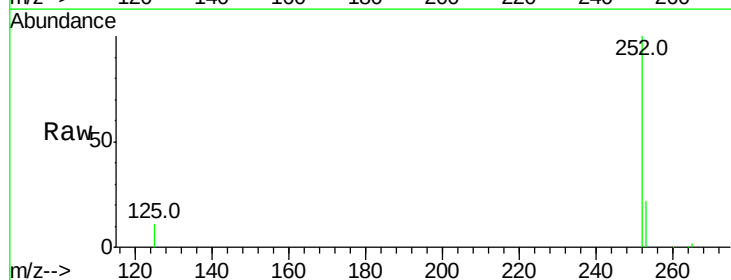
Instrument :
BNA_E
ClientSampleId :

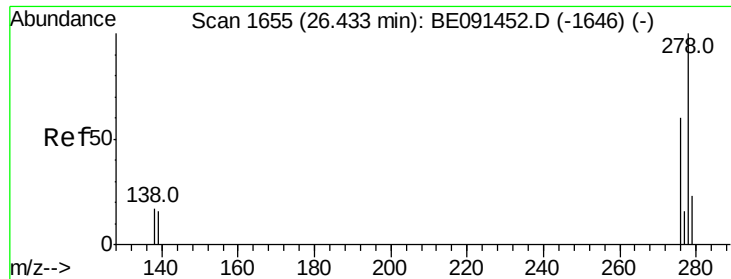
Tot Ion:252 Resp: 626775
Ion Ratio Lower Upper
252 100
253 21.1 20.2 30.2
125 10.4 10.6 16.0#



#28
Benzo(a)pyrene
Concen: 4.00 ng
RT: 23.69 min Scan# 1421
Delta R.T. -0.00 min
Lab File: BE091465.D
Acq: 17 Mar 2016 14:10

Tgt Ion:252 Resp: 608123
Ion Ratio Lower Upper
252 100
253 22.3 20.0 30.0
125 10.7 12.7 19.1#



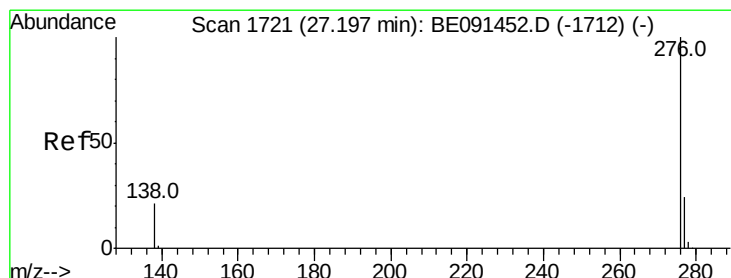
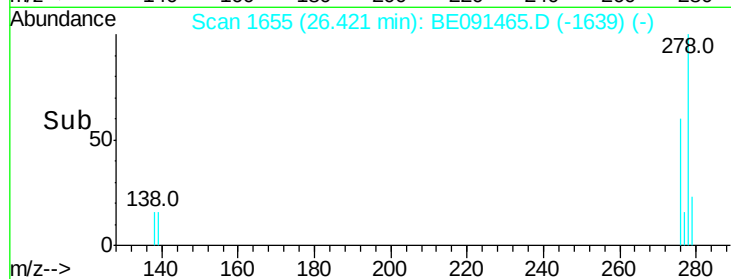
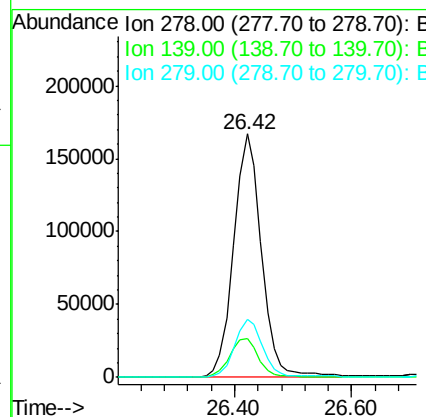
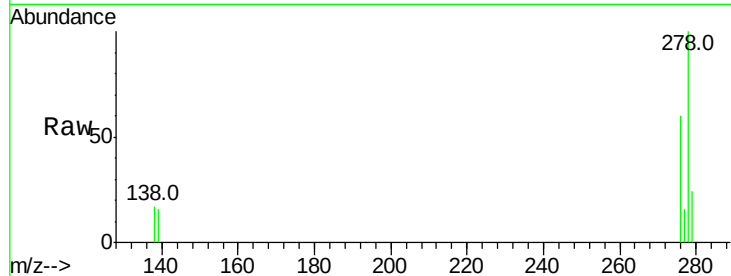


#29
Dibenzo(a,h)anthracene
Concen: 3.71 ng
RT: 26.42 min Scan# 1655
Delta R.T. -0.01 min
Lab File: BE091465.D
Acq: 17 Mar 2016 14:10

Instrument :
BNA_E
ClientSampleId :

Tot Ion:278 Resp: 546184

Ion	Ratio	Lower	Upper
278	100		
139	16.0	13.3	19.9
279	23.6	20.9	31.3



#30
Benzo(g,h,i)perylene
Concen: 3.73 ng
RT: 27.18 min Scan# 1721
Delta R.T. -0.01 min
Lab File: BE091465.D
Acq: 17 Mar 2016 14:10

Tgt Ion:276 Resp: 574318

Ion	Ratio	Lower	Upper
276	100		
277	23.0	19.8	29.8
138	22.3	17.6	26.4

