

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE070115\
 Data File : BE090044.D
 Acq On : 1 Jul 2015 15:41
 Operator : TP/IZ
 Sample : G2824-11DL 4X
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 X1SS0660624-150626DL

Quant Time: Jul 02 05:15:08 2015
 Quant Method : Z:\HPCHEM1\BNA_M\METHODS\8270-SIM-BE062915.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Jun 30 07:01:01 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.62	152	17714	5.00	ng	0.00
6) Naphthalene-d8	10.37	136	77675	5.00	ng	-0.02
12) Acenaphthene-d10	14.22	164	45345	5.00	ng	0.00
18) Phenanthrene-d10	16.96	188	107576	5.00	ng	-0.02
25) Chrysene-d12	21.12	240	132416	5.00	ng	-0.01
32) Perylene-d12	23.44	264	127333	5.00	ng	-0.02

System Monitoring Compounds

4) 2-Fluorophenol	5.25	112	4943	1.21	ng	0.00
5) Phenol-d6	6.80	99	7026	1.23	ng	0.00
7) Nitrobenzene-d5	8.76	82	4279	0.69	ng	0.00
13) 2,4,6-Tribromophenol	15.73	330	1151	0.87	ng	0.00
14) 2-Fluorobiphenyl	12.85	172	10323	0.76	ng	0.00
27) Terphenyl-d14	19.58	244	16294	0.74	ng	-0.01

Target Compounds

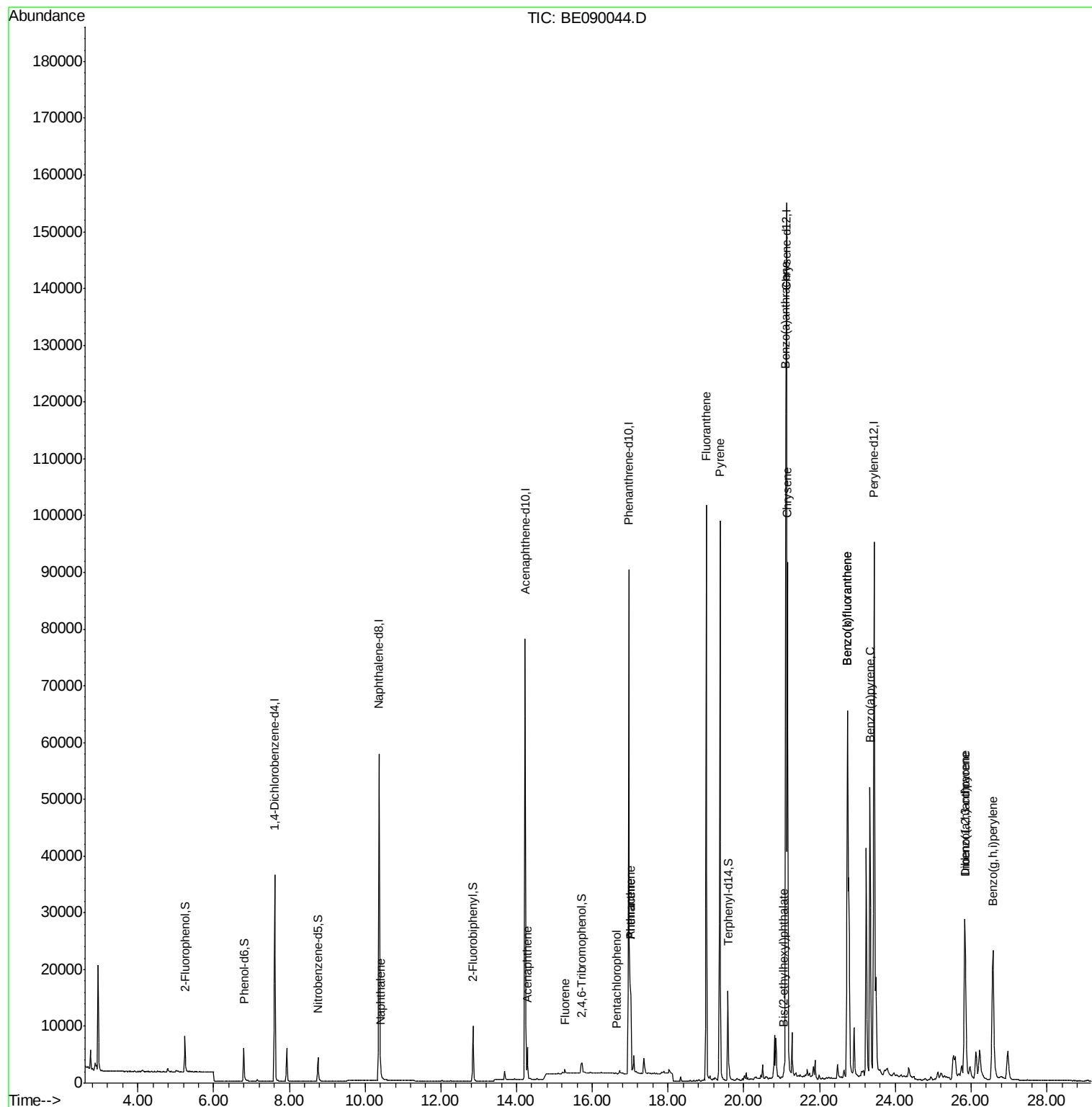
						Qvalue
9) Naphthalene	10.42	128	1171	0.07	ng	# 88
16) Acenaphthene	14.28	154	933	0.08	ng	94
17) Fluorene	15.27	166	541	0.03	ng	# 78
21) Pentachlorophenol	16.65	266	3	0.26	ng	# 52
22) Phenanthrene	17.00	178	22389	0.81	ng	99
23) Anthracene	17.00	178	22389	0.89	ng	98
24) Fluoranthene	19.01	202	91798	2.98	ng	100
26) Pyrene	19.37	202	90167	2.86	ng	96
28) Benzo(a)anthracene	21.10	228	73260	2.22	ng	99
29) Chrysene	21.16	228	80727	2.35	ng	98
30) Bis(2-ethylhexyl)phthalate	21.05	149	516	0.34	ng	# 95
31) Indeno(1,2,3-cd)pyrene	25.84	276	48186	1.46	ng	97
33) Benzo(b)fluoranthene	22.74	252	111327	3.96	ng	98
34) Benzo(k)fluoranthene	22.74	252	111327	3.55	ng	99
35) Benzo(a)pyrene	23.33	252	75795	2.92	ng	98
36) Dibenzo(a,h)anthracene	25.85	278	11974	0.45	ng	96
37) Benzo(g,h,i)perylene	26.57	276	51743	1.92	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: 7.62 min Scan# 852

Delta R.T. -0.01 min

Lab File: BE090044.D

Acq: 1 Jul 2015 15:41

Instrument :

BNA_E

ClientSampleId :

X1SS0660624-150626DL

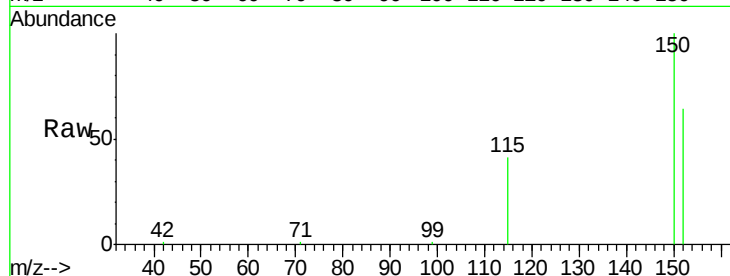
Tgt Ion:152 Resp: 17714

Ion Ratio Lower Upper

152 100

150 155.8 123.9 185.9

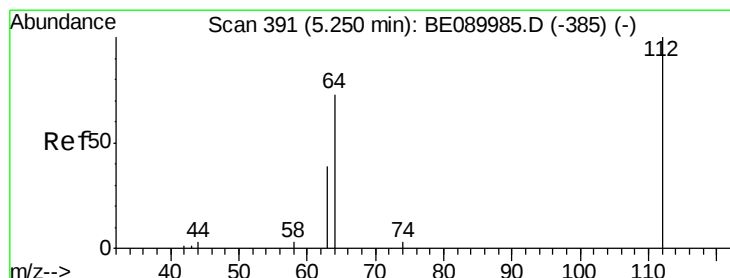
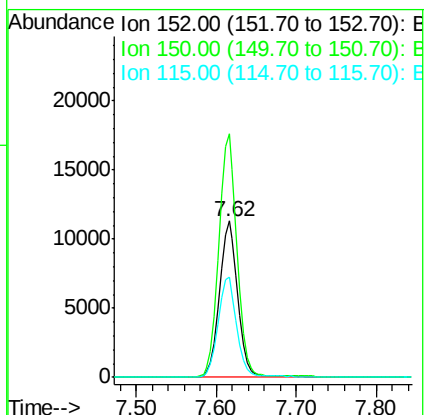
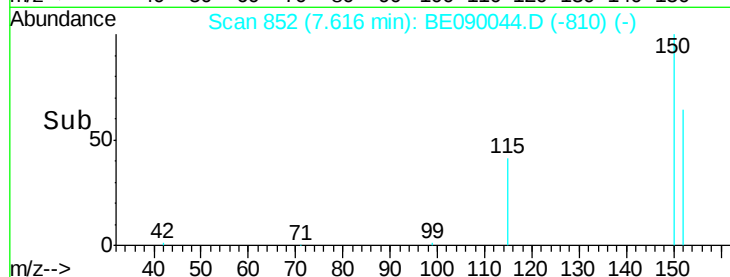
115 64.0 50.6 76.0



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



#4

2-Fluorophenol

Concen: 1.21 ng

RT: 5.25 min Scan# 390

Delta R.T. -0.00 min

Lab File: BE090044.D

Acq: 1 Jul 2015 15:41

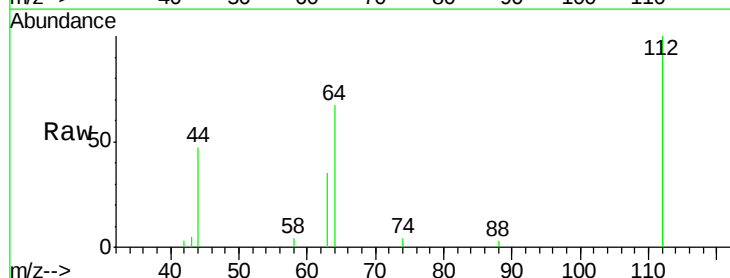
Tgt Ion:112 Resp: 4943

Ion Ratio Lower Upper

112 100

64 69.5 56.3 84.5

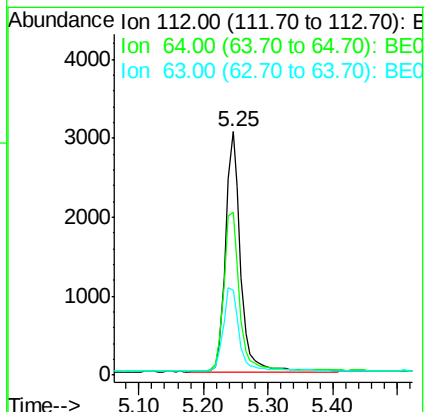
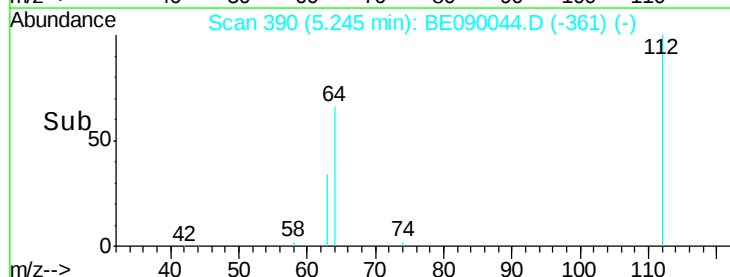
63 35.9 29.8 44.6

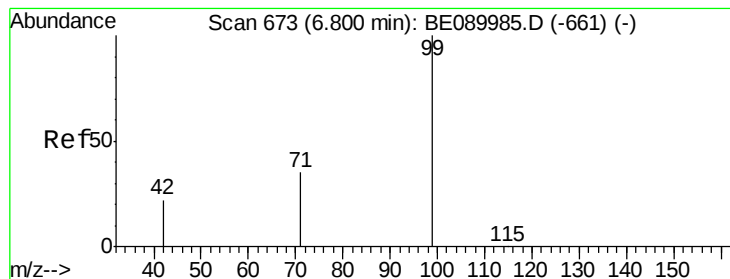


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BE0

Ion 63.00 (62.70 to 63.70): BE0





#5

Phenol-d6

Concen: 1.23 ng

RT: 6.80 min Scan# 672

Delta R.T. -0.00 min

Lab File: BE090044.D

Acq: 1 Jul 2015 15:41

Instrument :

BNA_E

ClientSampleId :

X1SS0660624-150626DL

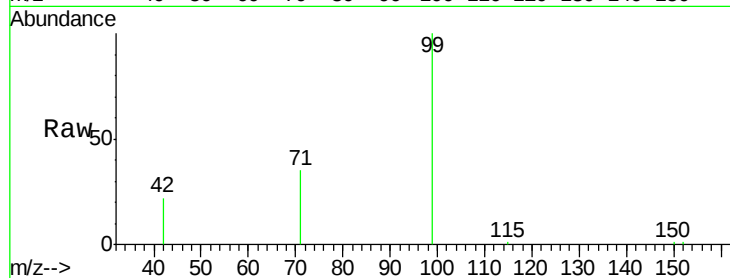
Tgt Ion: 99 Resp: 7026

Ion Ratio Lower Upper

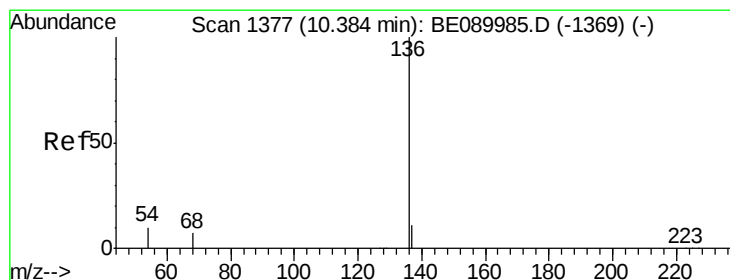
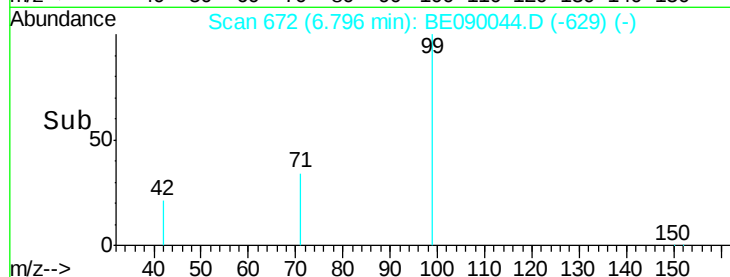
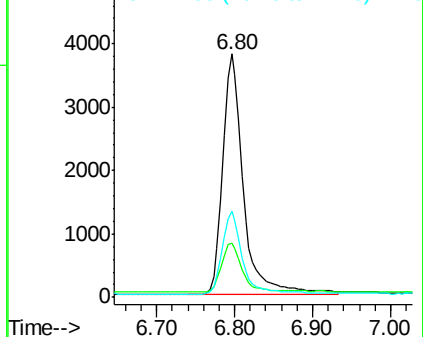
99 100

42 20.3 18.7 28.1

71 34.5 27.5 41.3



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: 10.37 min Scan# 1375

Delta R.T. -0.02 min

Lab File: BE090044.D

Acq: 1 Jul 2015 15:41

Tgt Ion: 136 Resp: 77675

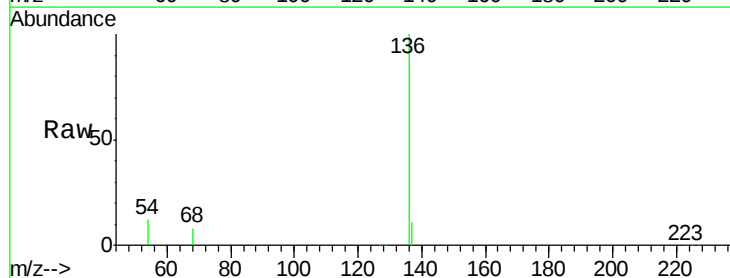
Ion Ratio Lower Upper

136 100

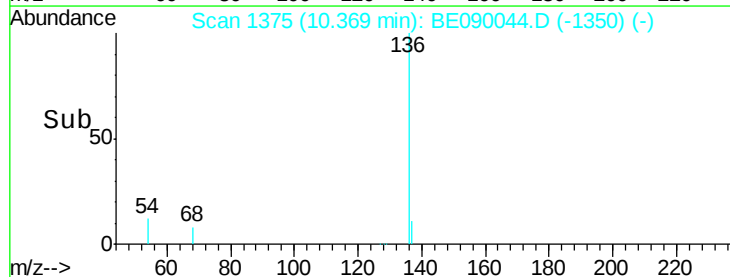
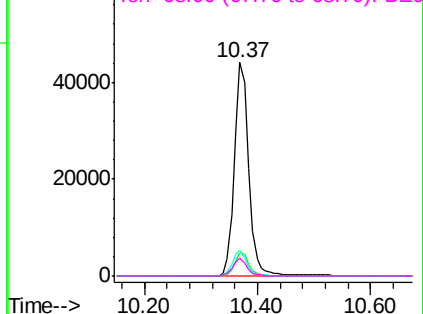
137 10.8 8.9 13.3

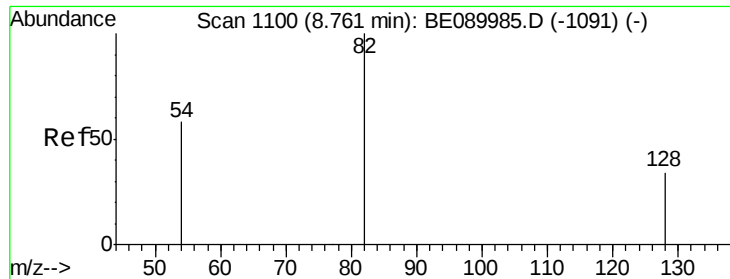
54 11.8 8.2 12.4

68 8.3 5.8 8.8



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: 0.69 ng

RT: 8.76 min Scan# 1099

Delta R.T. -0.01 min

Lab File: BE090044.D

Acq: 1 Jul 2015 15:41

Instrument :

BNA_E

ClientSampleId :

X1SS0660624-150626DL

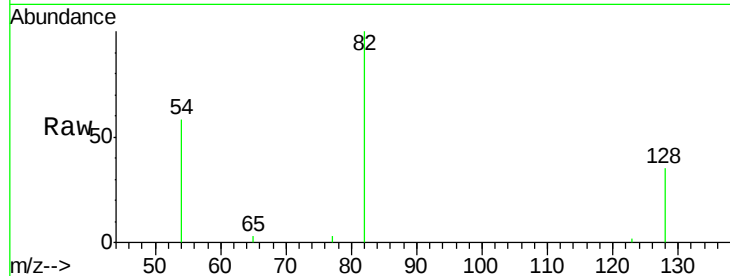
Tgt Ion: 82 Resp: 4279

Ion Ratio Lower Upper

82 100

128 34.6 28.0 42.0

54 58.4 47.6 71.4

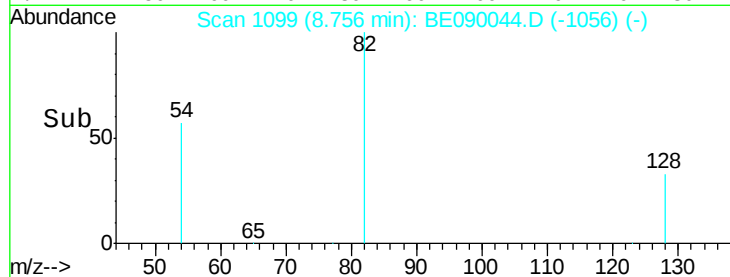


Abundance Ion 82.00 (81.70 to 82.70): BE089985.D (-1091) (-)

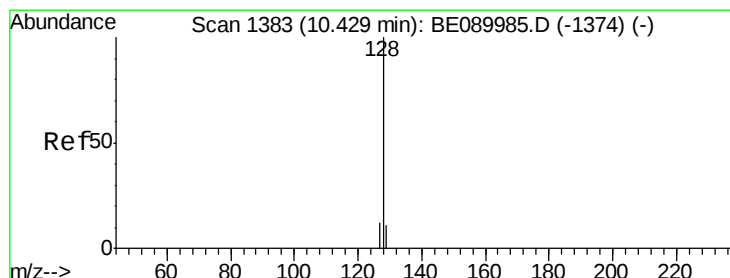
Ion 128.00 (127.70 to 128.70): BE089985.D (-1091) (-)

Ion 54.00 (53.70 to 54.70): BE089985.D (-1091) (-)

Time-->



Time-->



#9

Naphthalene

Concen: 0.07 ng

RT: 10.42 min Scan# 1382

Delta R.T. -0.01 min

Lab File: BE090044.D

Acq: 1 Jul 2015 15:41

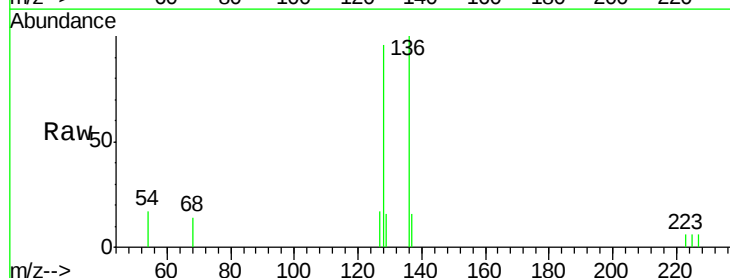
Tgt Ion: 128 Resp: 1171

Ion Ratio Lower Upper

128 100

129 16.9 9.3 13.9#

127 17.2 10.2 15.4#

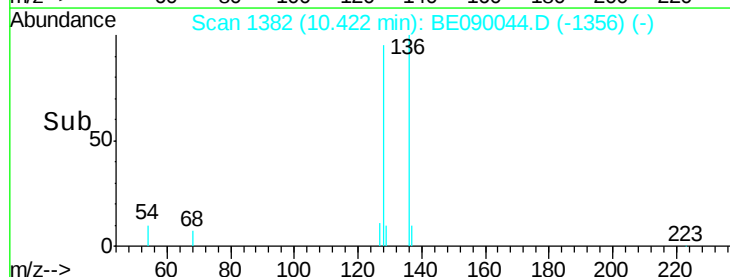


Abundance Ion 128.00 (127.70 to 128.70): BE089985.D (-1374) (-)

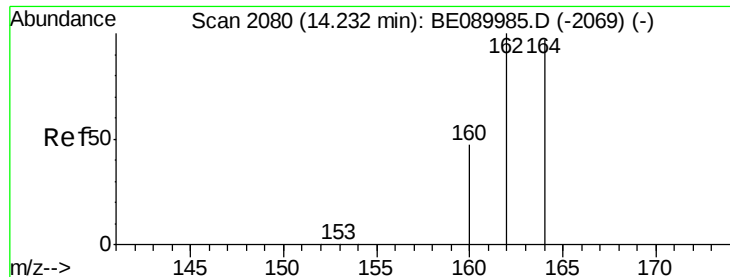
Ion 129.00 (128.70 to 129.70): BE089985.D (-1374) (-)

Ion 127.00 (126.70 to 127.70): BE089985.D (-1374) (-)

Time-->



Time-->



#12

Acenaphthene-d10

Concen: 5.00 ng

RT: 14.22 min Scan# 2079

Delta R.T. -0.01 min

Lab File: BE090044.D

Acq: 1 Jul 2015 15:41

Instrument :

BNA_E

ClientSampleId :

X1SS0660624-150626DL

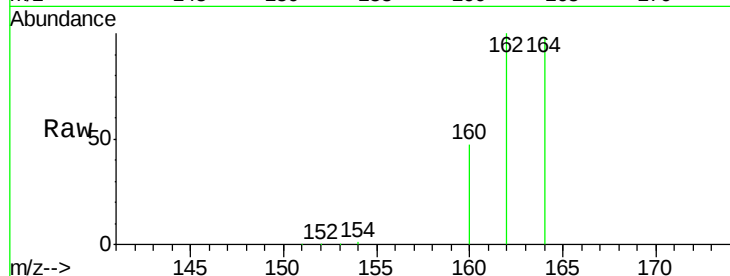
Tgt Ion:164 Resp: 45345

Ion Ratio Lower Upper

164 100

162 102.1 82.2 123.4

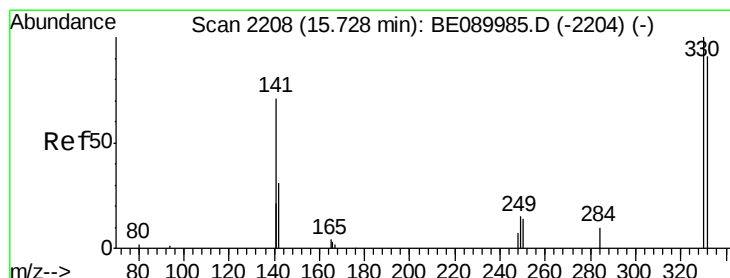
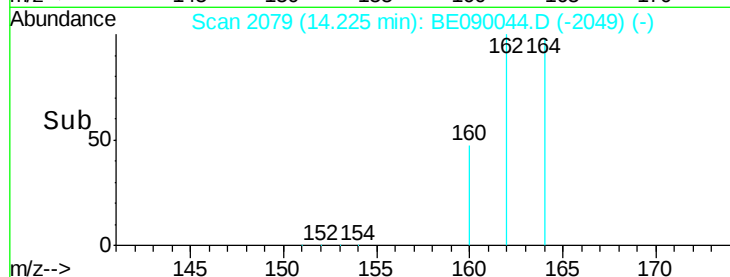
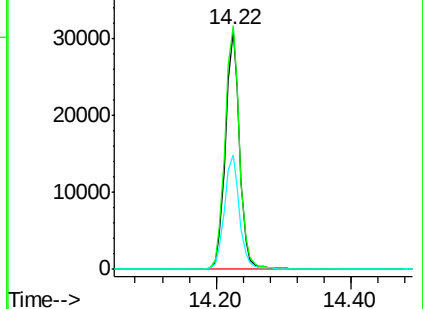
160 47.8 39.0 58.6



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



#13

2,4,6-Tribromophenol

Concen: 0.87 ng

RT: 15.73 min Scan# 2208

Delta R.T. -0.00 min

Lab File: BE090044.D

Acq: 1 Jul 2015 15:41

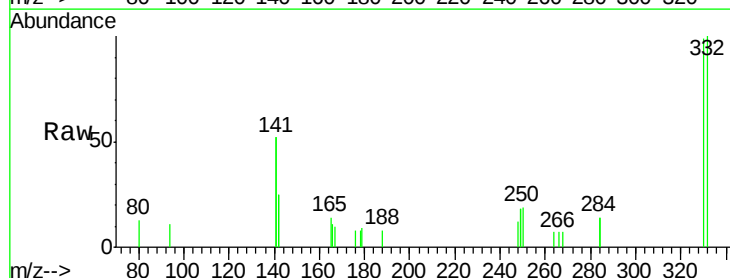
Tgt Ion:330 Resp: 1151

Ion Ratio Lower Upper

330 100

332 100.8 76.4 114.6

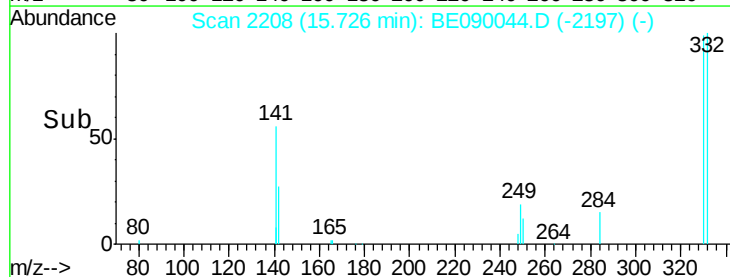
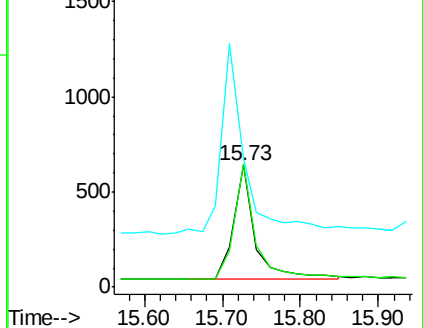
141 179.2 130.3 195.5

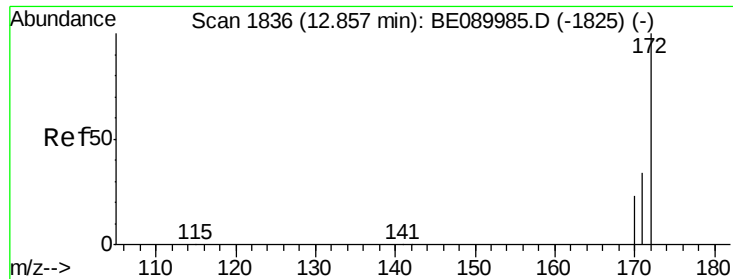


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

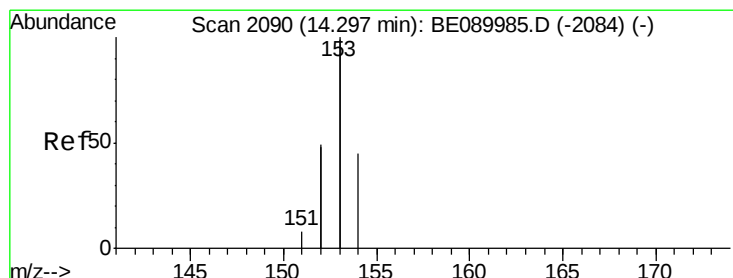
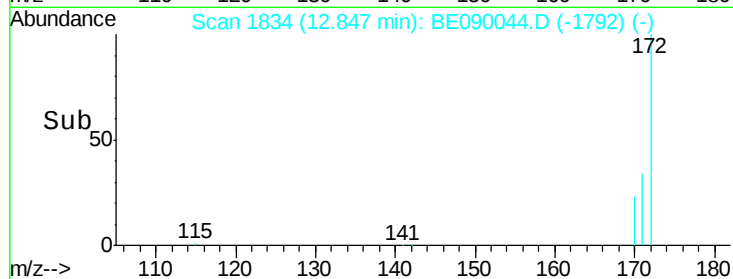
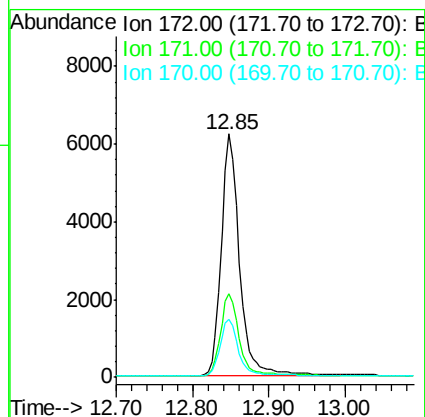
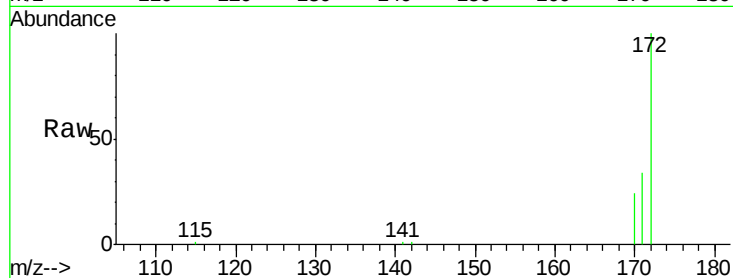




#14
2-Fluorobiphenyl
Concen: 0.76 ng
RT: 12.85 min Scan# 1834
Delta R.T. -0.01 min
Lab File: BE090044.D
Acq: 1 Jul 2015 15:41

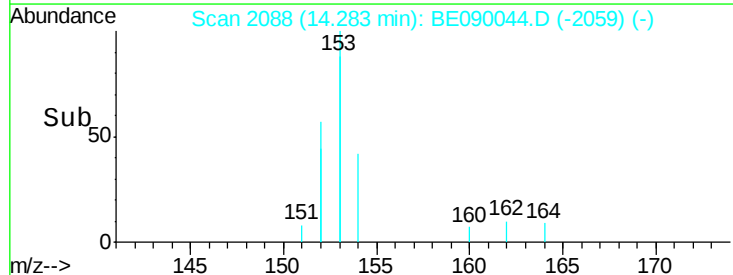
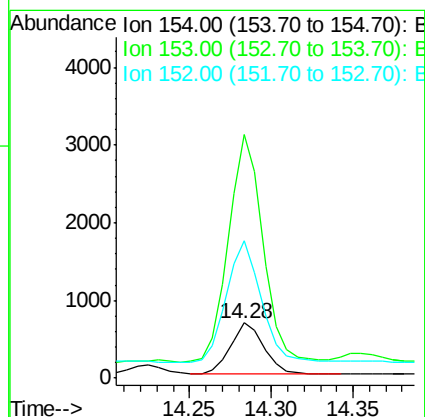
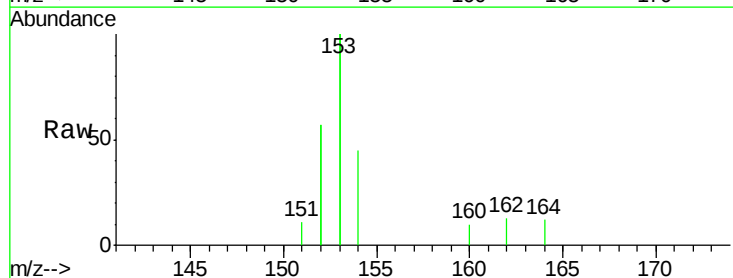
Instrument :
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X1SS0660624-150626DL

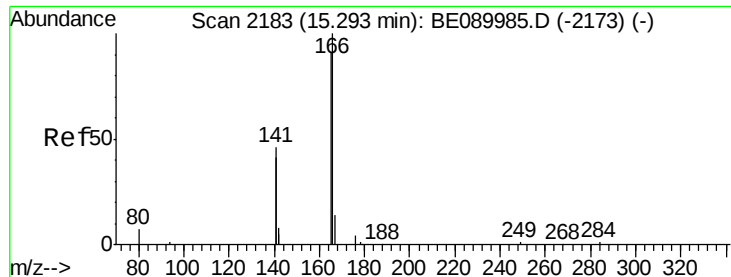
Tgt Ion:172 Resp: 10323
Ion Ratio Lower Upper
172 100
171 34.5 27.8 41.6
170 23.7 18.3 27.5



#16
Acenaphthene
Concen: 0.08 ng
RT: 14.28 min Scan# 2088
Delta R.T. -0.01 min
Lab File: BE090044.D
Acq: 1 Jul 2015 15:41

Tgt Ion:154 Resp: 933
Ion Ratio Lower Upper
154 100
153 461.0 358.6 538.0
152 251.3 189.6 284.4





#17

Fluorene

Concen: 0.03 ng

RT: 15.27 min Scan# 2182

Delta R.T. -0.02 min

Lab File: BE090044.D

Acq: 1 Jul 2015 15:41

Instrument :

BNA_E

ClientSampleId :

X1SS0660624-150626DL

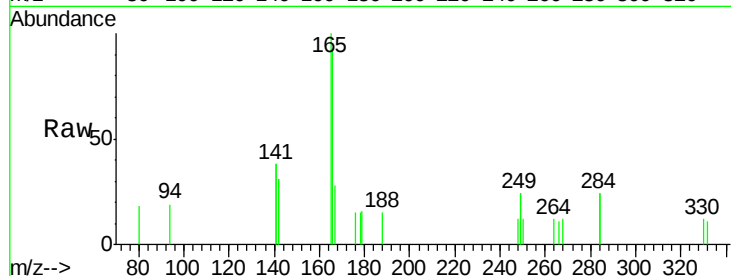
Tgt Ion:166 Resp: 541

Ion Ratio Lower Upper

166 100

165 121.8 79.0 118.6#

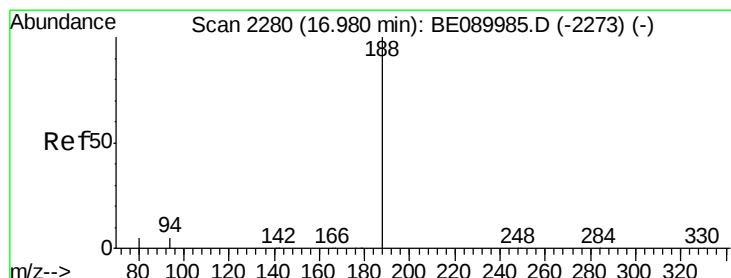
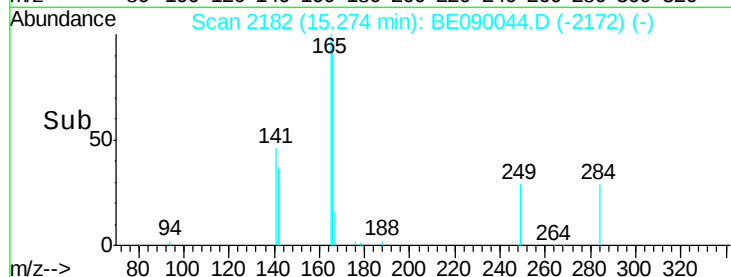
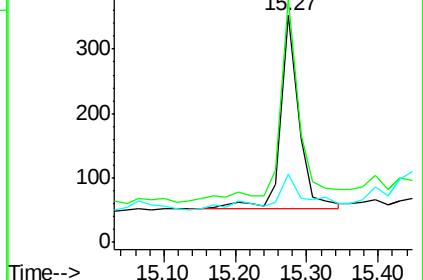
167 19.2 11.8 17.8#



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



#18

Phenanthrene-d10

Concen: 5.00 ng

RT: 16.96 min Scan# 2279

Delta R.T. -0.02 min

Lab File: BE090044.D

Acq: 1 Jul 2015 15:41

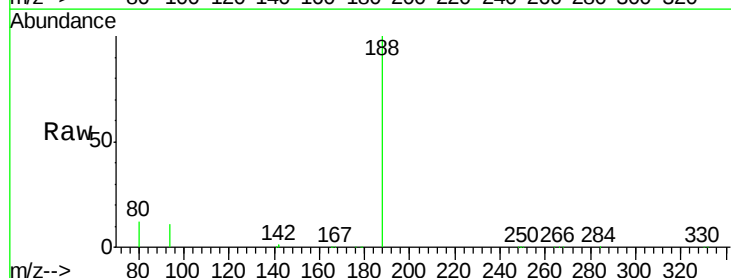
Tgt Ion:188 Resp: 107576

Ion Ratio Lower Upper

188 100

94 10.7 4.1 6.1#

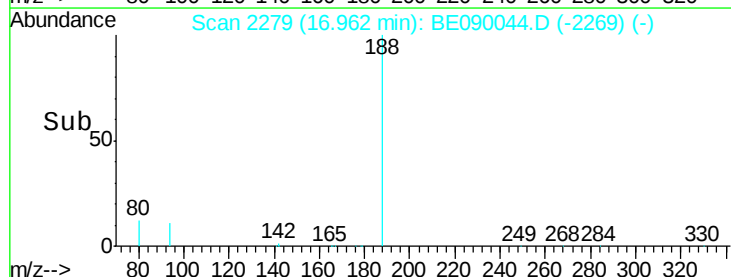
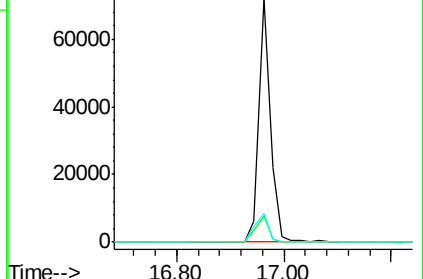
80 11.6 4.2 6.2#

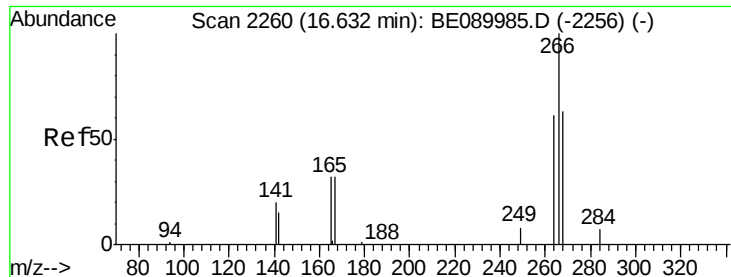


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BE0

Ion 80.00 (79.70 to 80.70): BE0





#21

Pentachlorophenol

Concen: 0.26 ng

RT: 16.65 min Scan# 2261

Delta R.T. 0.02 min

Lab File: BE090044.D

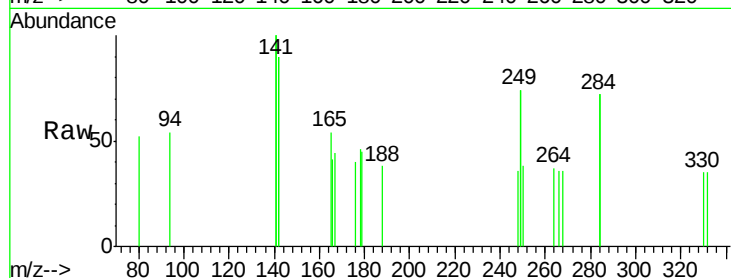
Acq: 1 Jul 2015 15:41

Instrument :

BNA_E

ClientSampleId :

X1SS0660624-150626DL



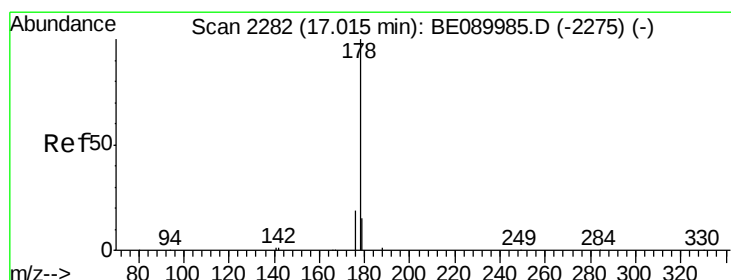
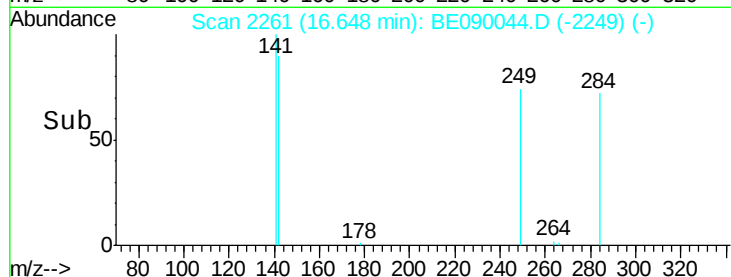
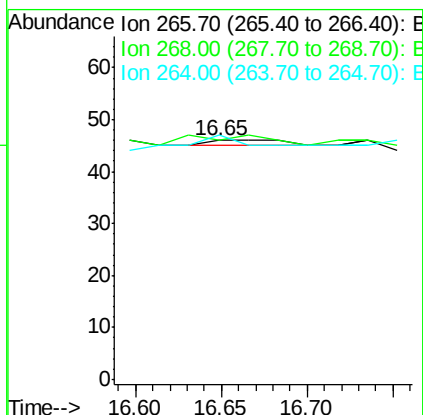
Tgt Ion:266 Resp: 3

Ion Ratio Lower Upper

266 100

268 100.0 51.8 77.8#

264 102.2 50.2 75.2#



#22

Phenanthrene

Concen: 0.81 ng

RT: 17.00 min Scan# 2281

Delta R.T. -0.02 min

Lab File: BE090044.D

Acq: 1 Jul 2015 15:41

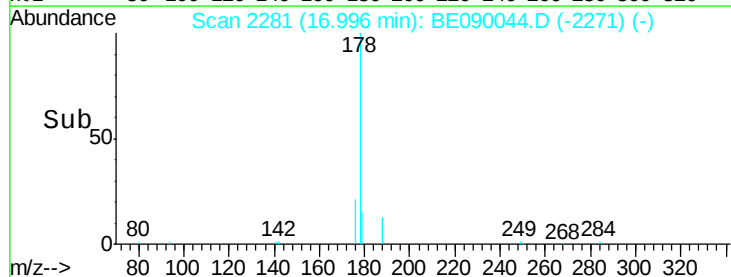
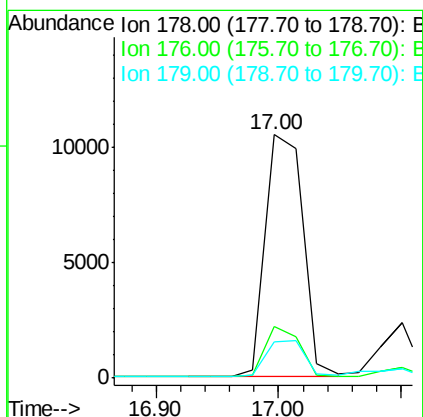
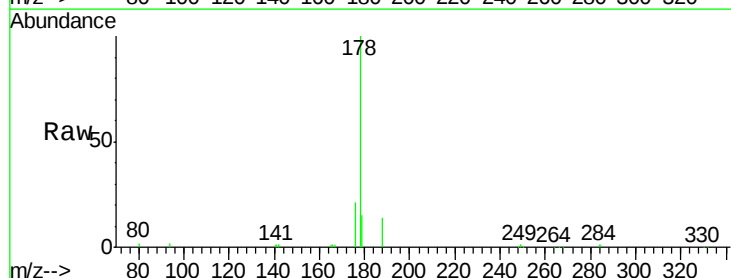
Tgt Ion:178 Resp: 22389

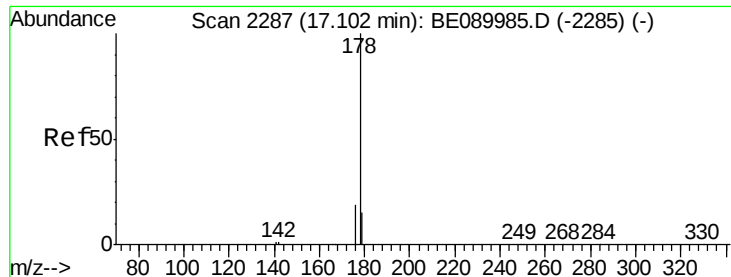
Ion Ratio Lower Upper

178 100

176 19.3 15.3 22.9

179 15.8 12.4 18.6





#23

Anthracene

Concen: 0.89 ng

RT: 17.00 min Scan# 2281

Delta R.T. -0.11 min

Lab File: BE090044.D

Acq: 1 Jul 2015 15:41

Instrument :

BNA_E

ClientSampleId :

X1SS0660624-150626DL

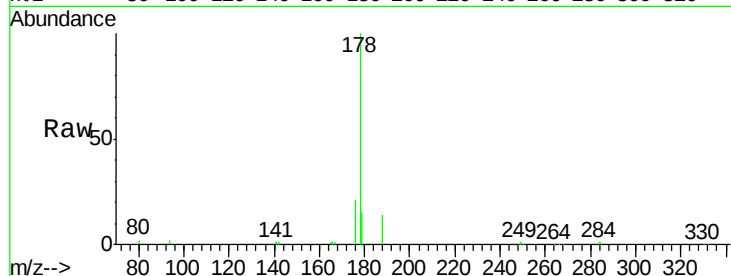
Tgt Ion:178 Resp: 22389

Ion Ratio Lower Upper

178 100

176 19.3 14.7 22.1

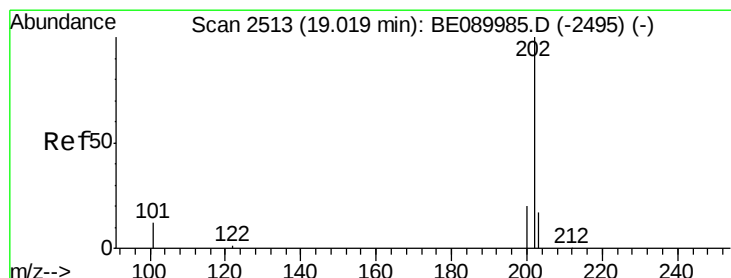
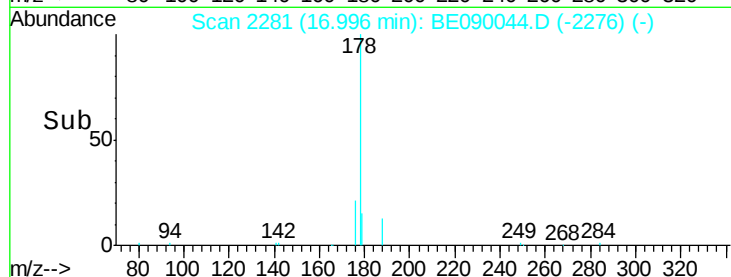
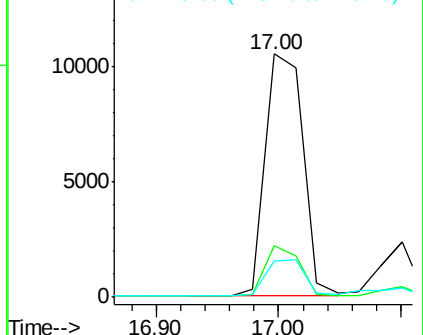
179 15.7 12.1 18.1



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



#24

Fluoranthene

Concen: 2.98 ng

RT: 19.01 min Scan# 2511

Delta R.T. -0.01 min

Lab File: BE090044.D

Acq: 1 Jul 2015 15:41

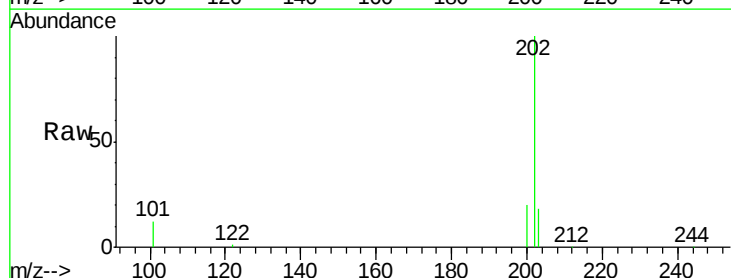
Tgt Ion:202 Resp: 91798

Ion Ratio Lower Upper

202 100

101 13.1 10.6 15.8

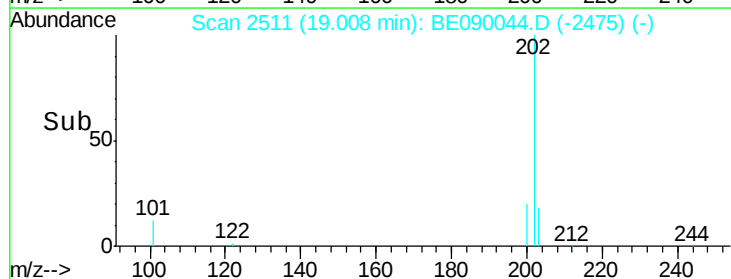
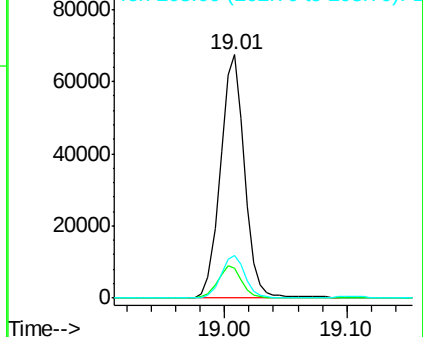
203 17.3 13.8 20.6

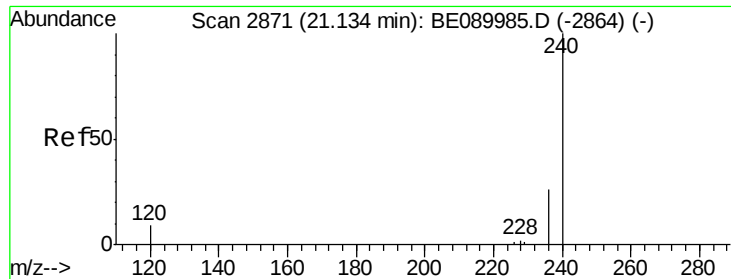


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E

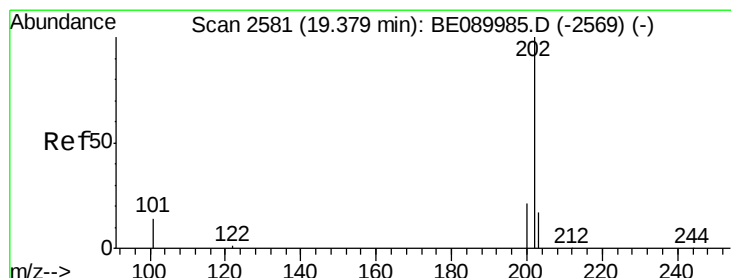
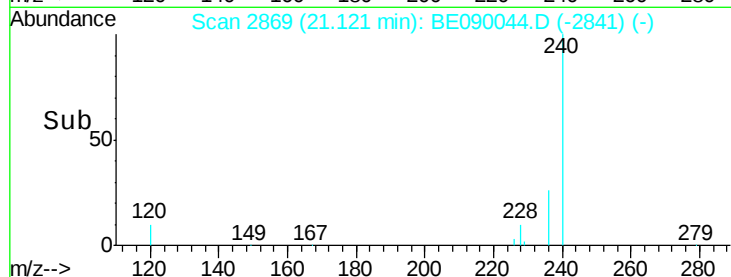
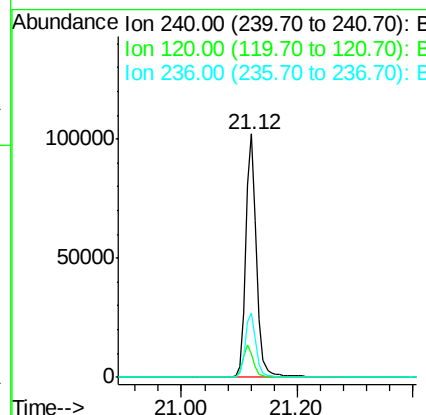
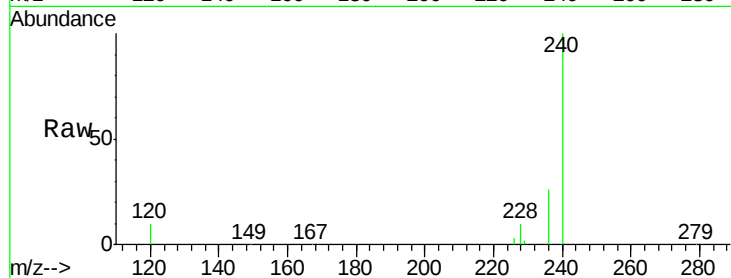




#25
Chrysene-d12
Concen: 5.00 ng
RT: 21.12 min Scan# 2869
Delta R.T. -0.01 min
Lab File: BE090044.D
Acq: 1 Jul 2015 15:41

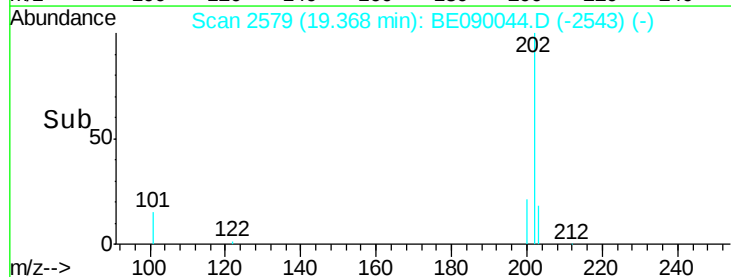
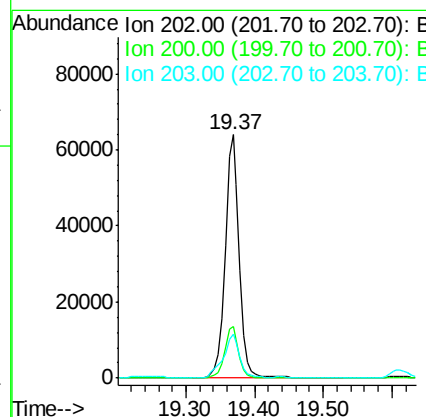
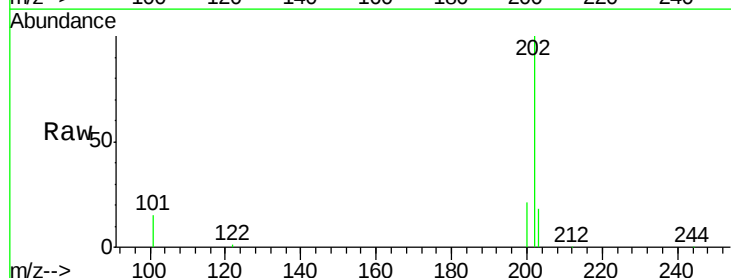
Instrument :
BNA_E
ClientSampleId :
X1SS0660624-150626DL

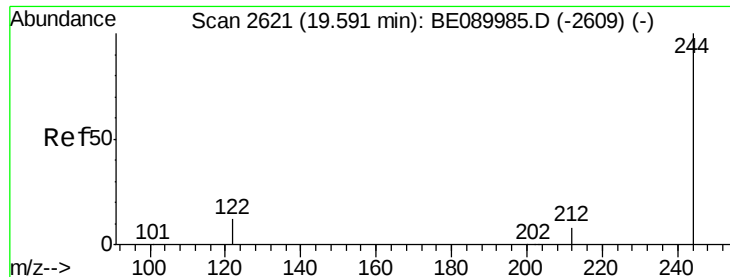
Tgt Ion:240 Resp: 132416
Ion Ratio Lower Upper
240 100
120 9.7 6.9 10.3
236 26.3 20.8 31.2



#26
Pyrene
Concen: 2.86 ng
RT: 19.37 min Scan# 2579
Delta R.T. -0.01 min
Lab File: BE090044.D
Acq: 1 Jul 2015 15:41

Tgt Ion:202 Resp: 90167
Ion Ratio Lower Upper
202 100
200 21.2 16.8 25.2
203 20.8 13.9 20.9

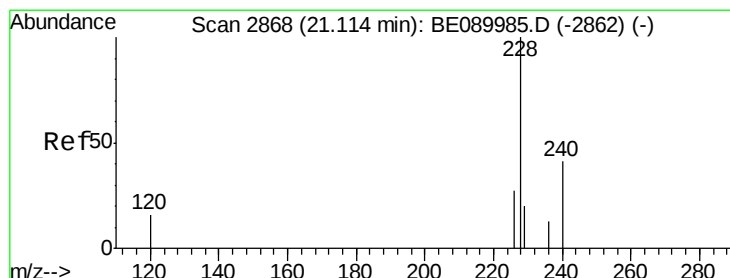
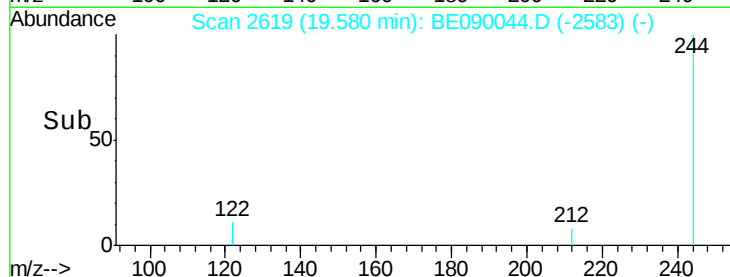
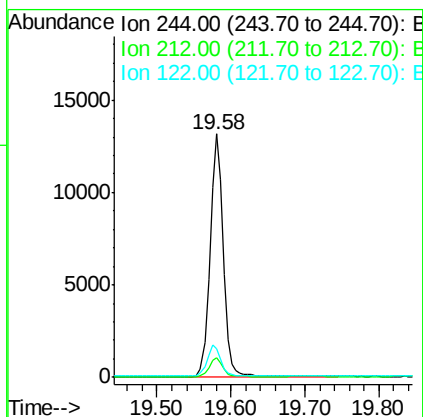
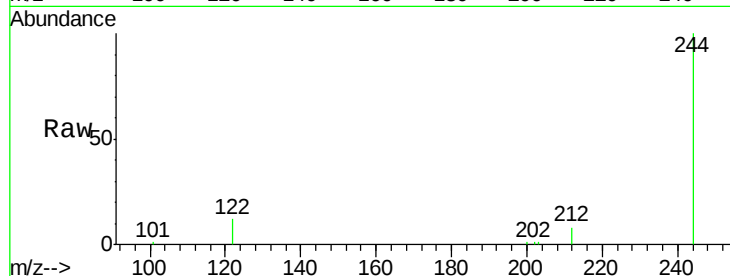




#27
 Terphenyl-d14
 Concen: 0.74 ng
 RT: 19.58 min Scan# 2619
 Delta R.T. -0.01 min
 Lab File: BE090044.D
 Acq: 1 Jul 2015 15:41

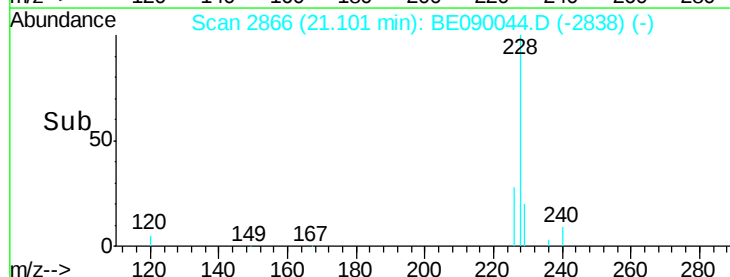
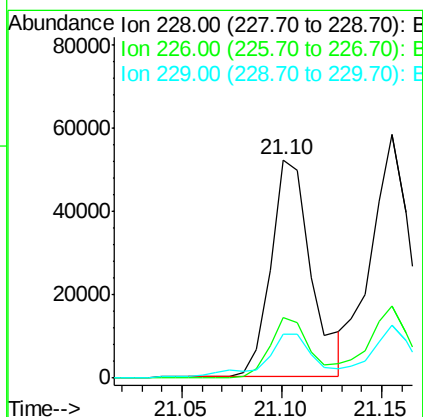
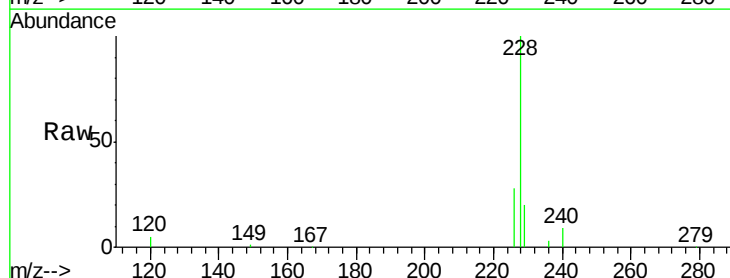
Instrument :
 BNA_E
 ClientSampleId :
 X1SS0660624-150626DL

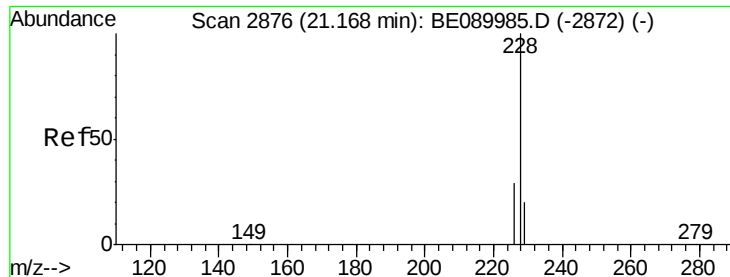
Tgt Ion:244 Resp: 16294
 Ion Ratio Lower Upper
 244 100
 212 8.1 6.6 9.8
 122 11.8 9.8 14.8



#28
 Benzo(a)anthracene
 Concen: 2.22 ng
 RT: 21.10 min Scan# 2866
 Delta R.T. -0.01 min
 Lab File: BE090044.D
 Acq: 1 Jul 2015 15:41

Tgt Ion:228 Resp: 73260
 Ion Ratio Lower Upper
 228 100
 226 28.0 21.8 32.6
 229 20.3 15.8 23.6





#29

Chrysene

Concen: 2.35 ng

RT: 21.16 min Scan# 2874

Delta R.T. -0.01 min

Lab File: BE090044.D

Acq: 1 Jul 2015 15:41

Instrument :

BNA_E

ClientSampleId :

X1SS0660624-150626DL

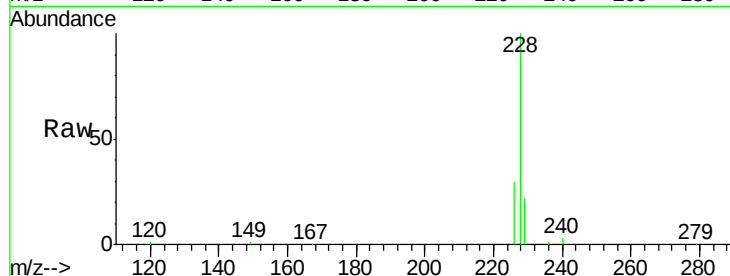
Tgt Ion:228 Resp: 80727

Ion Ratio Lower Upper

228 100

226 29.8 23.4 35.0

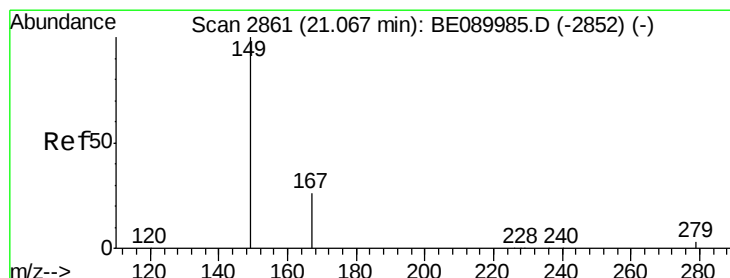
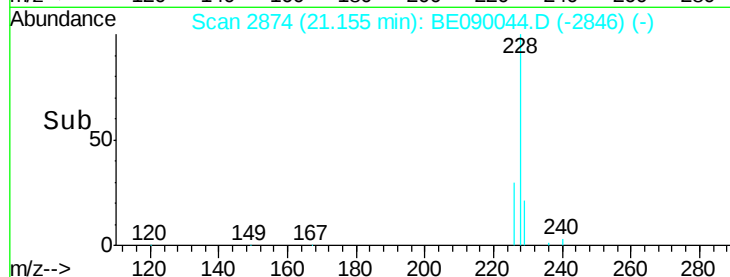
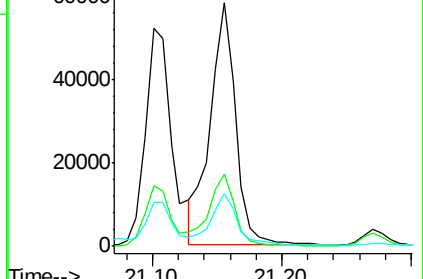
229 21.6 16.2 24.2



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



#30

Bis(2-ethylhexyl)phthalate

Concen: 0.34 ng

RT: 21.05 min Scan# 2859

Delta R.T. -0.01 min

Lab File: BE090044.D

Acq: 1 Jul 2015 15:41

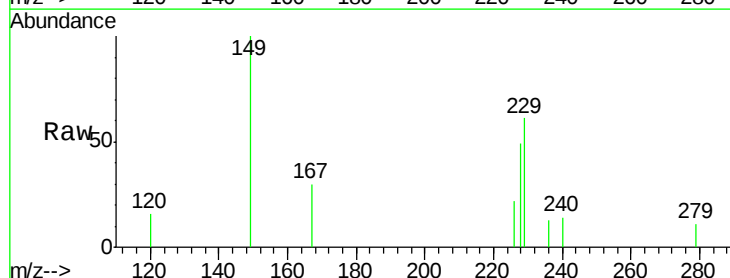
Tgt Ion:149 Resp: 516

Ion Ratio Lower Upper

149 100

167 22.9 20.3 30.5

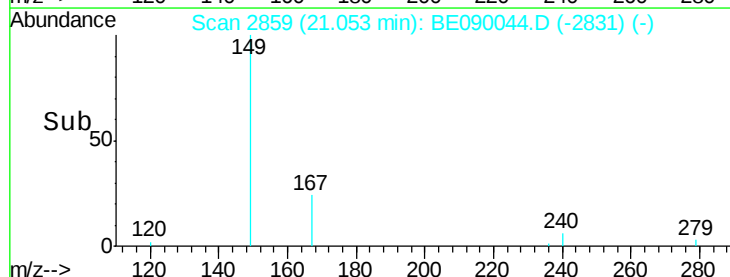
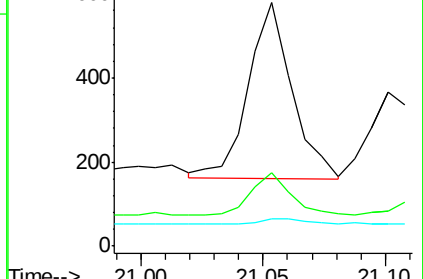
279 4.1 2.6 3.8#

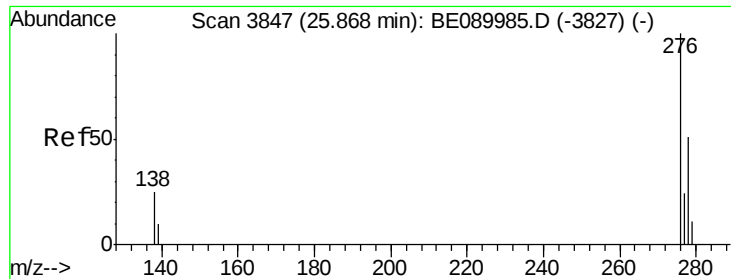


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E





#31

Indeno(1,2,3-cd)pyrene

Concen: 1.46 ng

RT: 25.84 min Scan# 3840

Delta R.T. -0.03 min

Lab File: BE090044.D

Acq: 1 Jul 2015 15:41

Instrument :

BNA_E

ClientSampleId :

X1SS0660624-150626DL

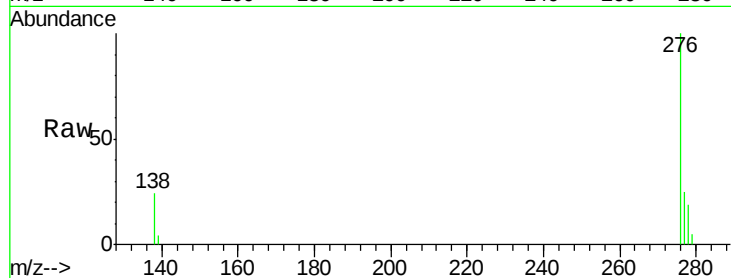
Tgt Ion:276 Resp: 48186

Ion Ratio Lower Upper

276 100

138 24.7 21.3 31.9

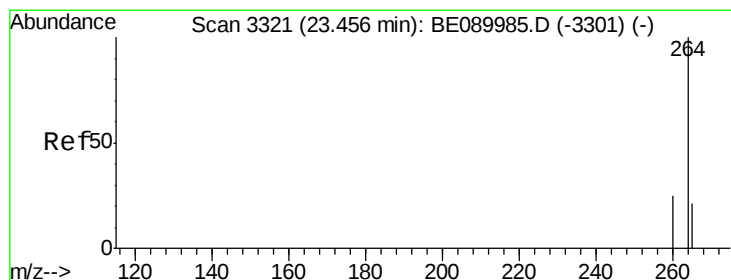
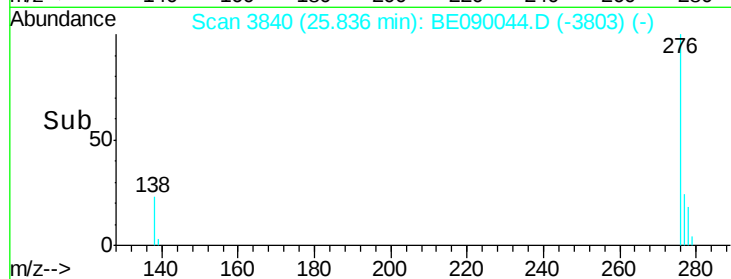
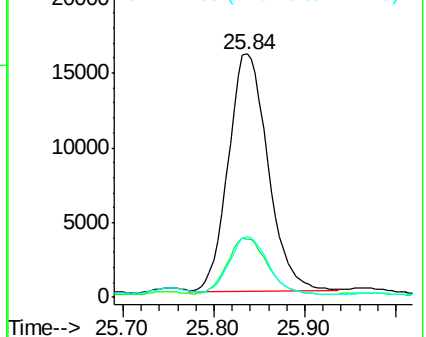
277 24.0 19.7 29.5



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



#32

Perylene-d12

Concen: 5.00 ng

RT: 23.44 min Scan# 3317

Delta R.T. -0.02 min

Lab File: BE090044.D

Acq: 1 Jul 2015 15:41

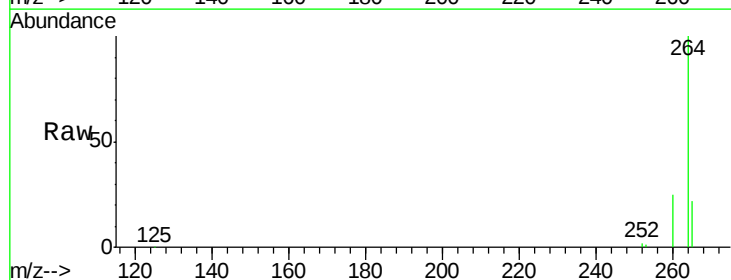
Tgt Ion:264 Resp: 127333

Ion Ratio Lower Upper

264 100

260 25.1 20.2 30.2

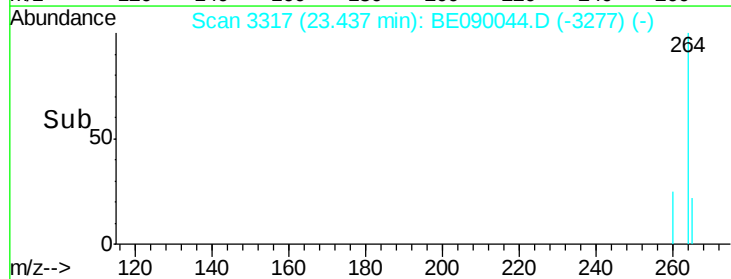
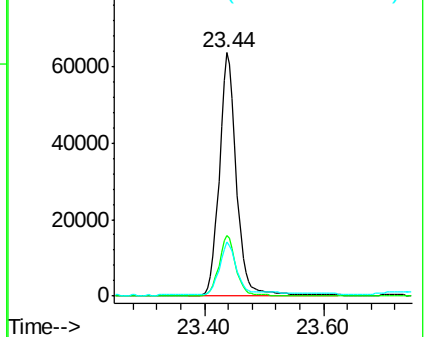
265 22.1 17.1 25.7

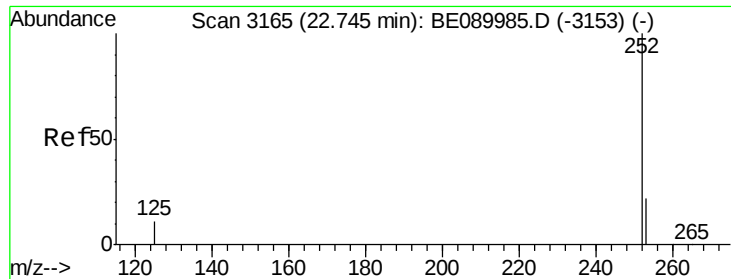


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#33

Benzo(b)fluoranthene

Concen: 3.96 ng

RT: 22.74 min Scan# 3163

Delta R.T. -0.01 min

Lab File: BE090044.D

Acq: 1 Jul 2015 15:41

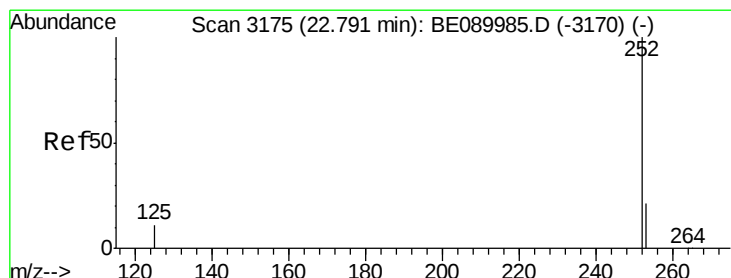
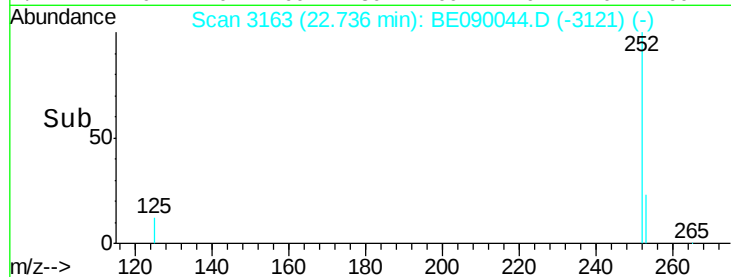
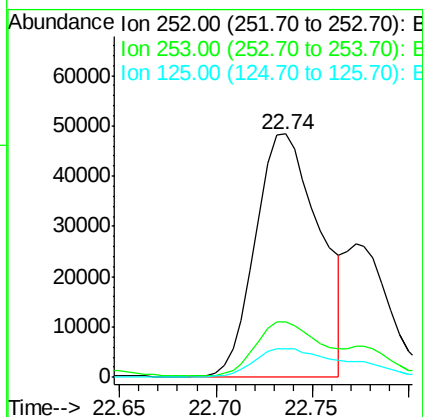
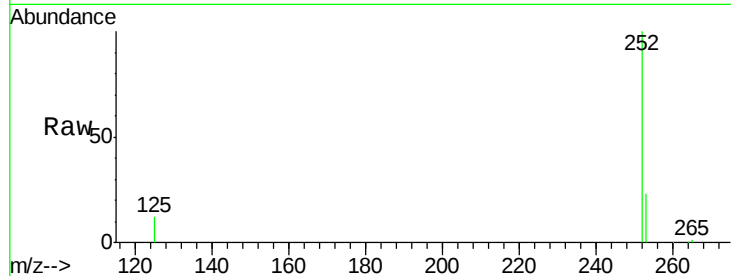
Instrument :

BNA_E

ClientSampleId :

X1SS0660624-150626DL

Tgt Ion:	252	Resp:	111327
Ion Ratio	Lower	Upper	
252	100		
253	22.9	17.8	26.8
125	11.9	9.0	13.4



#34

Benzo(k)fluoranthene

Concen: 3.55 ng

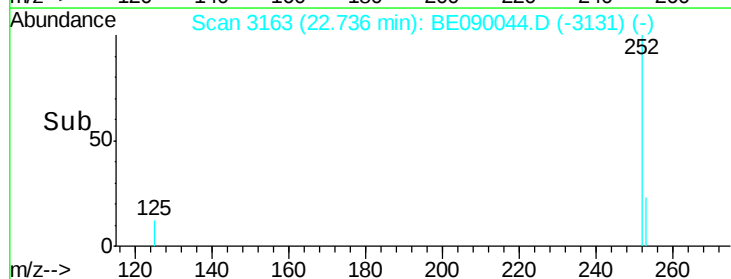
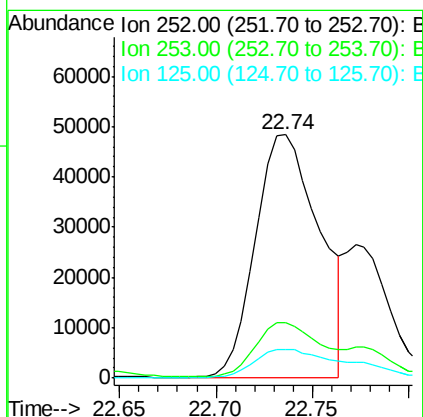
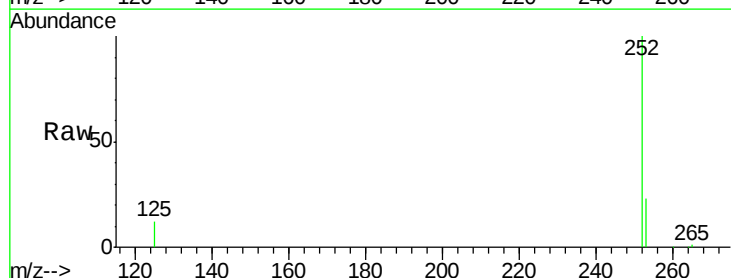
RT: 22.74 min Scan# 3163

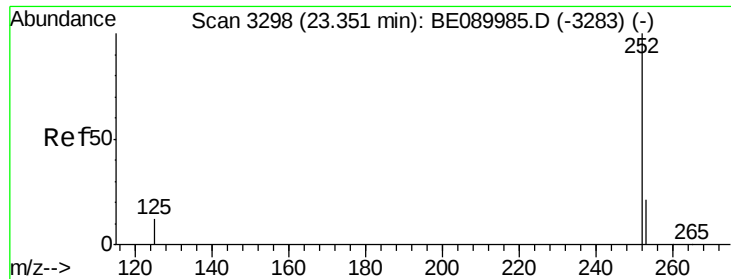
Delta R.T. -0.05 min

Lab File: BE090044.D

Acq: 1 Jul 2015 15:41

Tgt Ion:	252	Resp:	111327
Ion Ratio	Lower	Upper	
252	100		
253	22.9	17.5	26.3
125	11.9	9.5	14.3





#35

Benzo(a)pyrene

Concen: 2.92 ng

RT: 23.33 min Scan# 3294

Delta R.T. -0.02 min

Lab File: BE090044.D

Acq: 1 Jul 2015 15:41

Instrument :

BNA_E

ClientSampleId :

X1SS0660624-150626DL

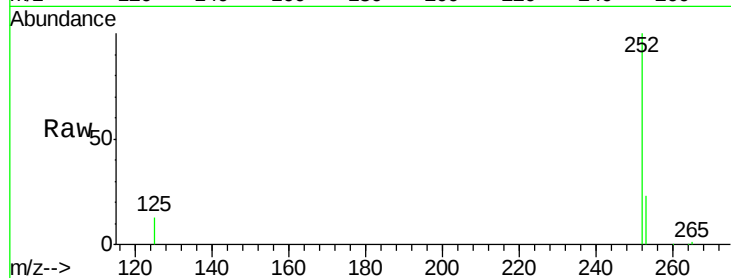
Tgt Ion:252 Resp: 75795

Ion Ratio Lower Upper

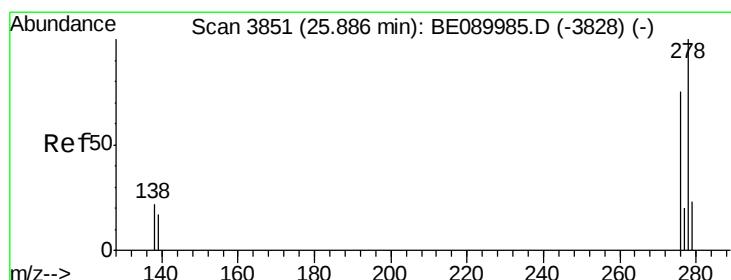
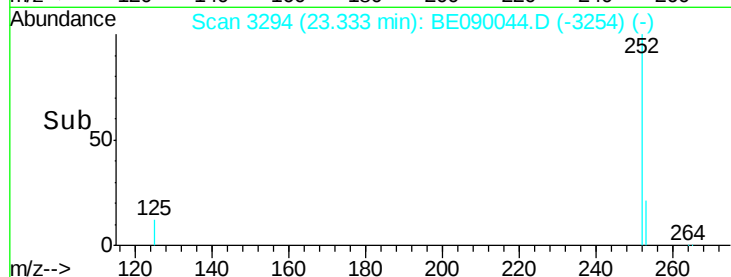
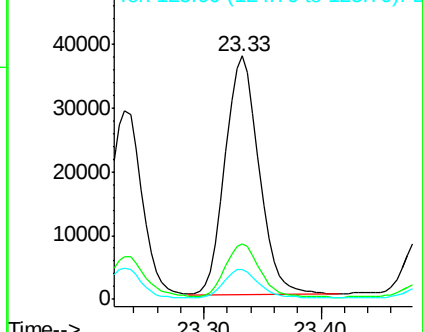
252 100

253 23.0 17.4 26.2

125 12.5 10.5 15.7



Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E



#36

Dibenzo(a,h)anthracene

Concen: 0.45 ng

RT: 25.85 min Scan# 3843

Delta R.T. -0.04 min

Lab File: BE090044.D

Acq: 1 Jul 2015 15:41

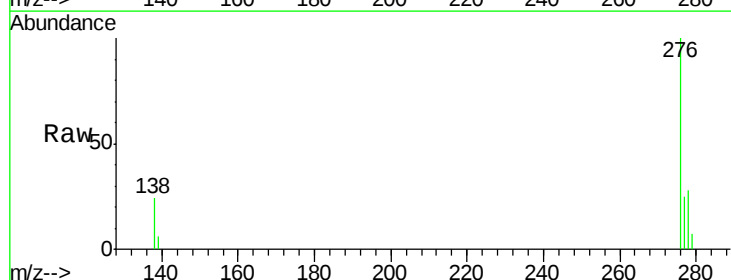
Tgt Ion:278 Resp: 11974

Ion Ratio Lower Upper

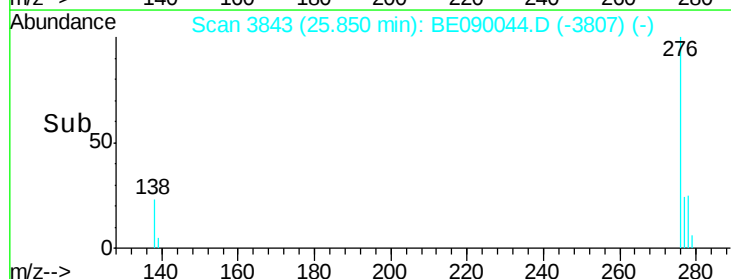
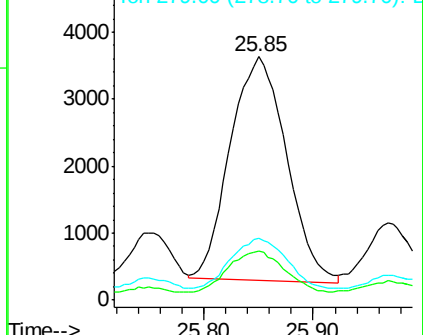
278 100

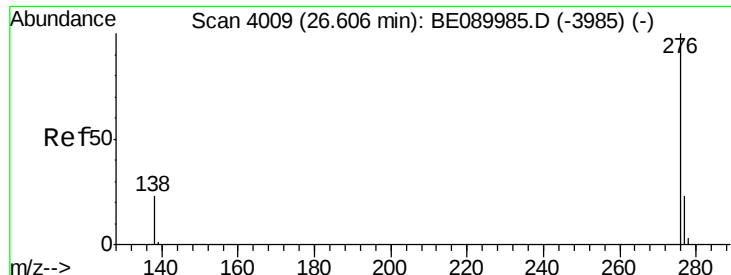
139 20.2 14.4 21.6

279 25.3 19.0 28.6



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





#37

Benzo(g,h,i)perylene

Concen: 1.92 ng

RT: 26.57 min Scan# 4002

Delta R.T. -0.03 min

Lab File: BE090044.D

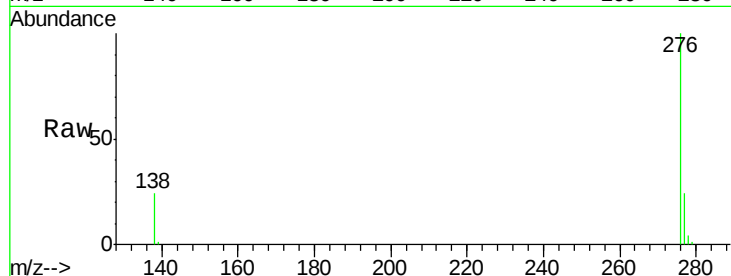
Acq: 1 Jul 2015 15:41

Instrument :

BNA_E

ClientSampleId :

X1SS0660624-150626DL



Tgt Ion: 276 Resp: 51743

Ion Ratio Lower Upper

276 100

277 23.9 18.8 28.2

138 24.4 18.6 27.8

