

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE020615\
 Data File : BE089531.D
 Acq On : 6 Feb 2015 17:09
 Operator : TP/IZ
 Sample : SSTDICC010
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_E
 LabSampleId :
 SSTDICC010

Quant Time: Feb 07 03:36:12 2015
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\SIMPAH-BE020615.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sat Feb 07 03:25:41 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	9.42	152	33566	5.00	ng	0.00
2) Naphthalene-d8	12.33	136	124541	5.00	ng	0.00
6) Acenaphthene-d10	16.52	164	49860	5.00	ng	0.01
11) Phenanthrene-d10	19.85	188	92033	5.00	ng	0.00
16) Chrysene-d12	23.73	240	113117	5.00	ng	0.00
22) Perylene-d12	25.42	264	122242	5.00	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
3) Nitrobenzene-d5	10.69	82	92222	10.45	ng	0.00
7) 2-Fluorobiphenyl	14.97	172	131095	8.37	ng	0.00
18) Terphenyl-d14	22.37	244	149300	7.40	ng	0.00

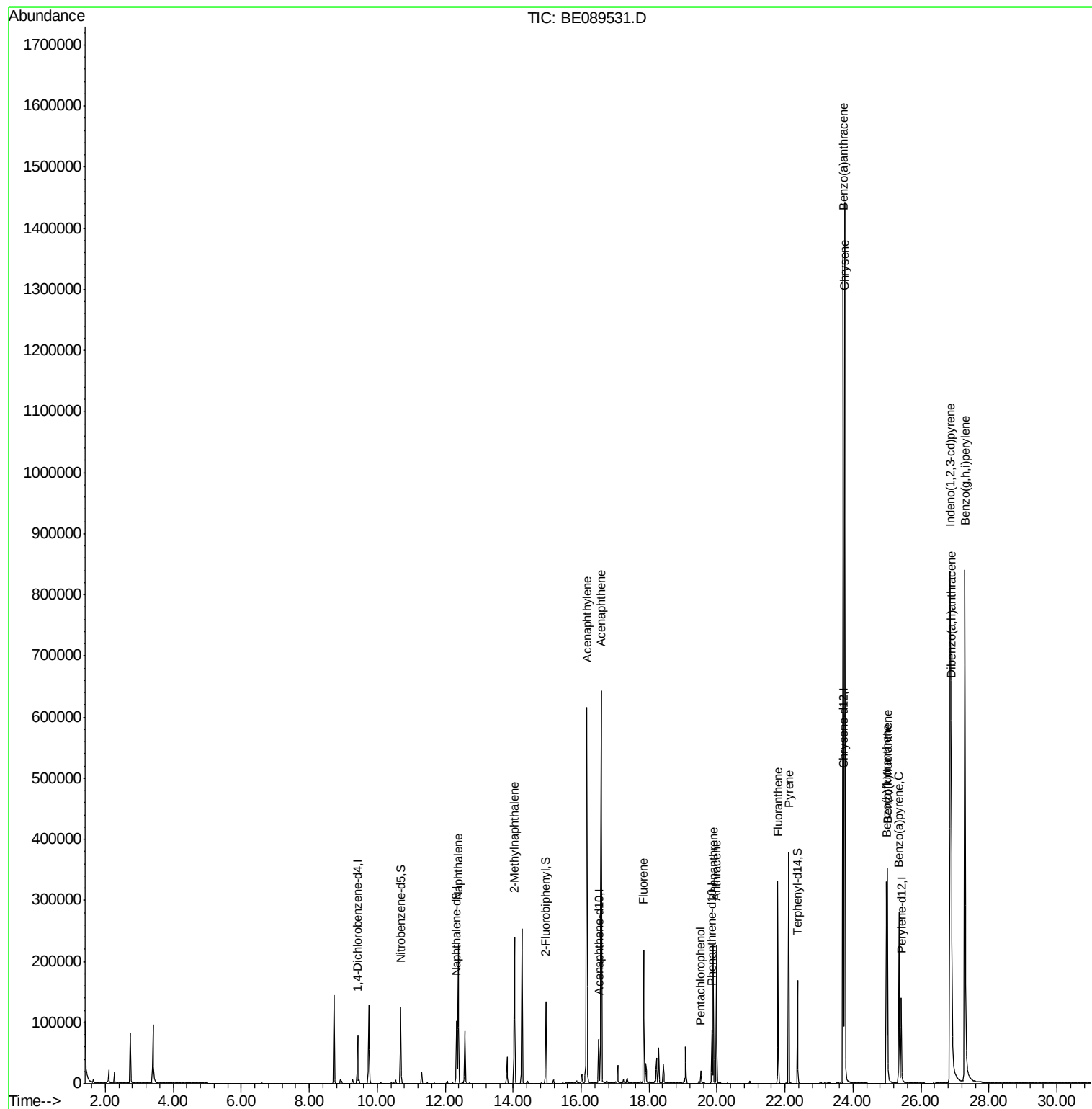
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Naphthalene	12.38	128	273694	8.97	ng	99
5) 2-Methylnaphthalene	14.04	142	161740	8.33	ng	97
8) Acenaphthylene	16.17	152	918516	8.76	ng	99
9) Acenaphthene	16.59	154	132592	8.23	ng	99
10) Fluorene	17.84	166	147744	8.15	ng	98
12) Pentachlorophenol	19.52	266	11633	16.77	ng	88
13) Phenanthrene	19.89	178	223349	8.05	ng	99
14) Anthracene	19.99	178	217475	8.66	ng	100
15) Fluoranthene	21.79	202	234899	9.15	ng	99
17) Pyrene	22.11	202	249581	7.27	ng	99
19) Benzo(a)anthracene	23.71	228	1015147	8.27	ng	95
20) Chrysene	23.75	228	996778	7.82	ng	95
21) Indeno(1,2,3-cd)pyrene	26.86	276	1456290	10.28	ng	100
23) Benzo(b)fluoranthene	24.98	252	257145	9.50	ng	99
24) Benzo(k)fluoranthene	25.01	252	310609	7.99	ng	98
25) Benzo(a)pyrene	25.35	252	270359	9.53	ng	98
26) Dibenzo(a,h)anthracene	26.89	278	314371	9.95	ng	96
27) Benzo(g,h,i)perylene	27.29	276	1208292	9.14	ng	99

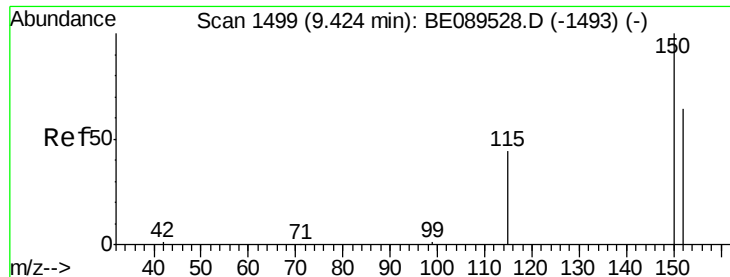
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 9.42 min Scan# 1499

Delta R.T. 0.00 min

Lab File: BE089531.D

Acq: 6 Feb 2015 17:09

Instrument :

BNA_E

LabSampleId :

SSTDICC010

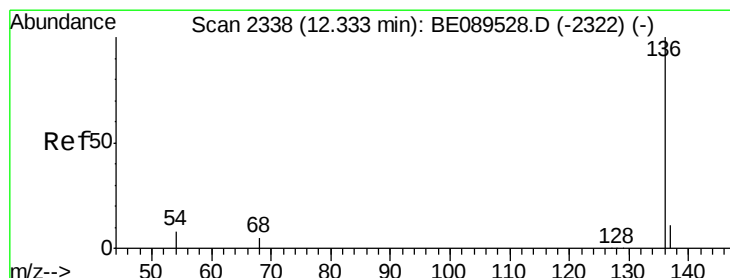
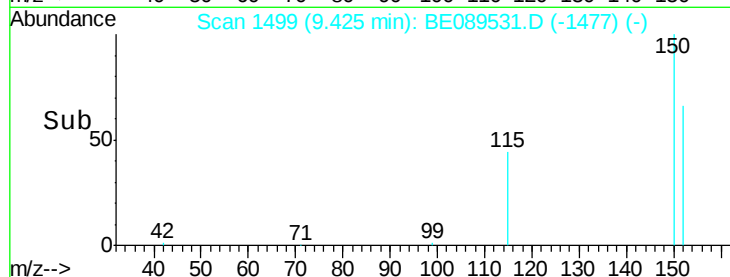
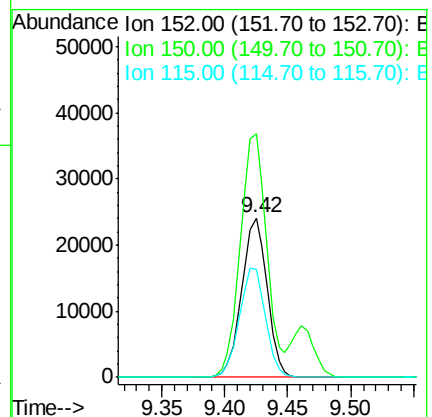
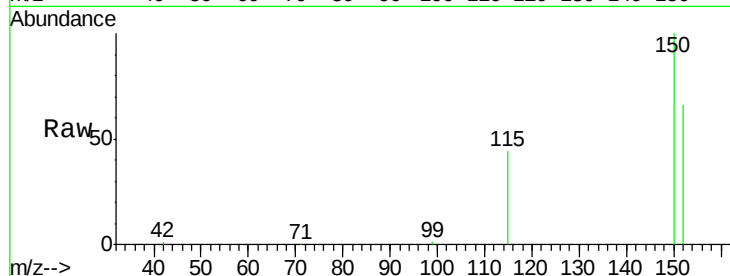
Tgt Ion:152 Resp: 33566

Ion Ratio Lower Upper

152 100

150 152.5 125.7 188.5

115 67.8 55.6 83.4



#2

Naphthalene-d8

Concen: 5.00 ng

RT: 12.33 min Scan# 2339

Delta R.T. 0.00 min

Lab File: BE089531.D

Acq: 6 Feb 2015 17:09

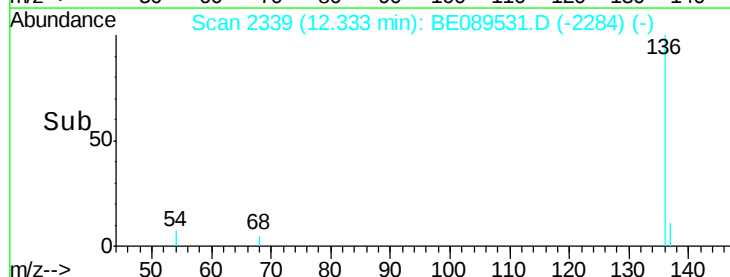
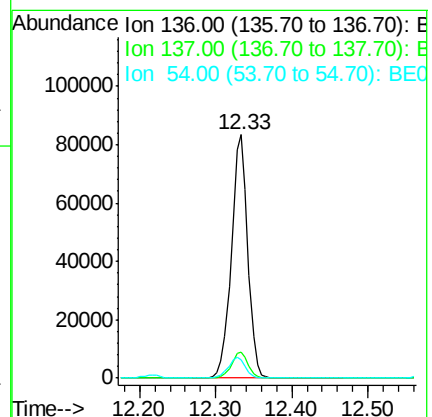
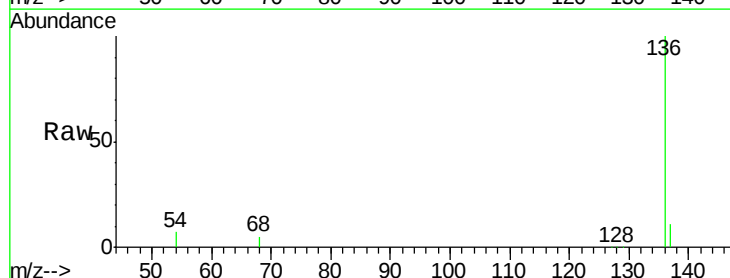
Tgt Ion:136 Resp: 124541

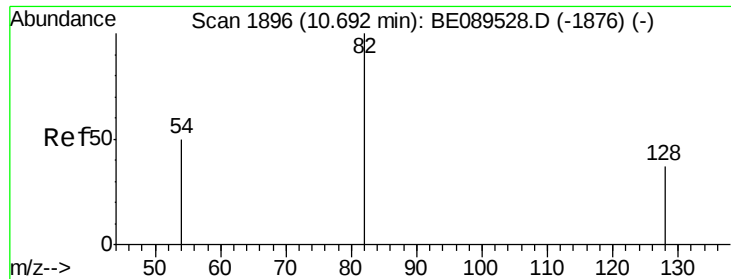
Ion Ratio Lower Upper

136 100

137 10.7 8.7 13.1

54 7.4 6.1 9.1





#3

Nitrobenzene-d5

Concen: 10.45 ng

RT: 10.69 min Scan# 1897

Delta R.T. 0.00 min

Lab File: BE089531.D

Acq: 6 Feb 2015 17:09

Instrument :

BNA_E

LabSampleId :

SSTDIC010

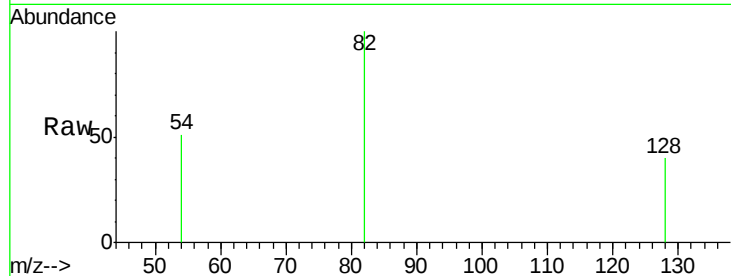
Tgt Ion: 82 Resp: 92222

Ion Ratio Lower Upper

82 100

128 40.0 30.2 45.4

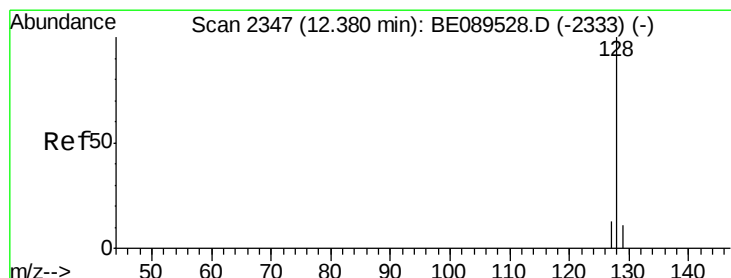
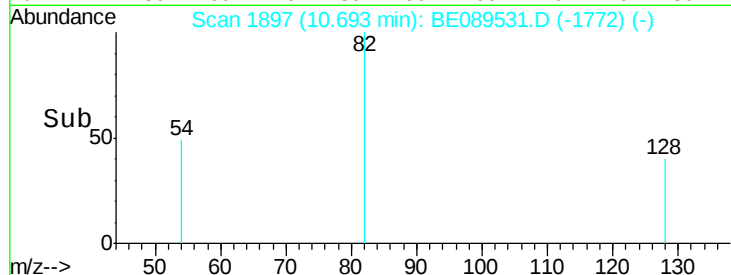
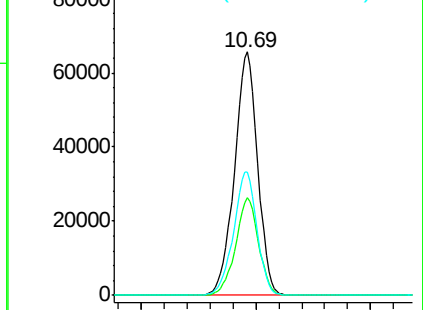
54 50.6 40.6 60.8



Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): BE0

Ion 54.00 (53.70 to 54.70): BE0



#4

Naphthalene

Concen: 8.97 ng

RT: 12.38 min Scan# 2348

Delta R.T. 0.00 min

Lab File: BE089531.D

Acq: 6 Feb 2015 17:09

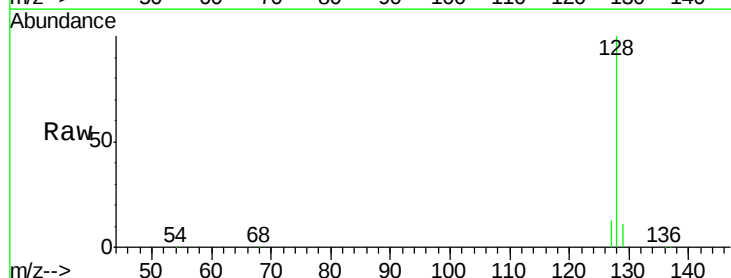
Tgt Ion: 128 Resp: 273694

Ion Ratio Lower Upper

128 100

129 10.8 9.1 13.7

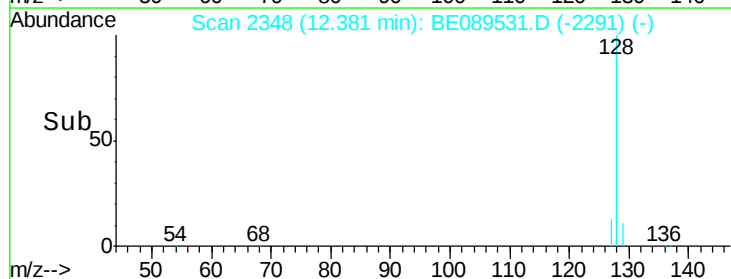
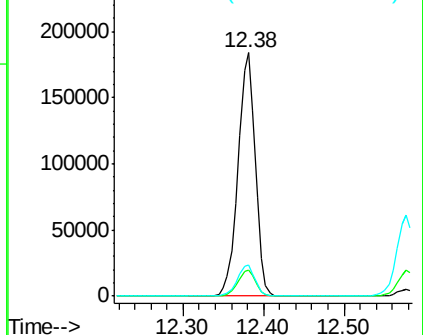
127 12.7 10.5 15.7

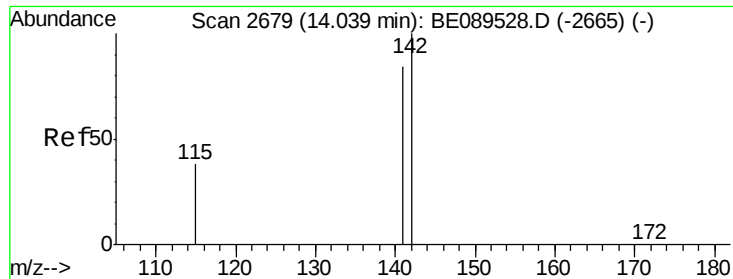


Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E





#5

2-Methylnaphthalene

Concen: 8.33 ng

RT: 14.04 min Scan# 2679

Delta R.T. -0.00 min

Lab File: BE089531.D

Acq: 6 Feb 2015 17:09

Instrument :

BNA_E

LabSampleId :

SSTDICC010

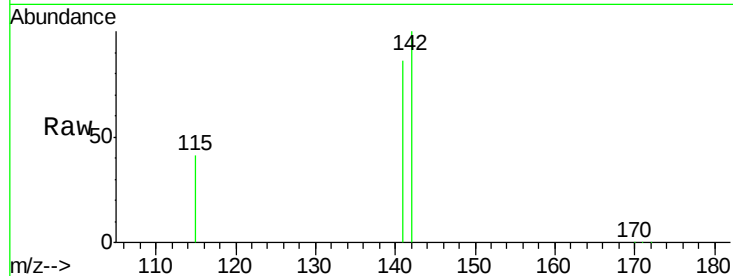
Tgt Ion:142 Resp: 161740

Ion Ratio Lower Upper

142 100

141 86.3 67.0 100.6

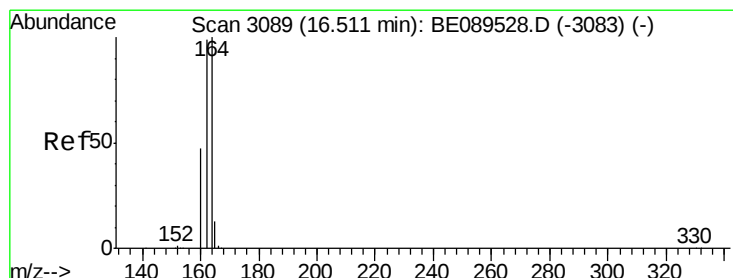
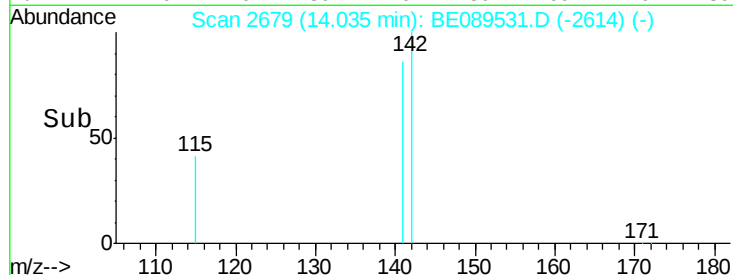
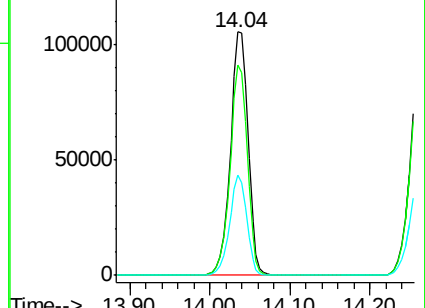
115 41.0 30.6 45.8



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E



#6

Acenaphthene-d10

Concen: 5.00 ng

RT: 16.52 min Scan# 3091

Delta R.T. 0.01 min

Lab File: BE089531.D

Acq: 6 Feb 2015 17:09

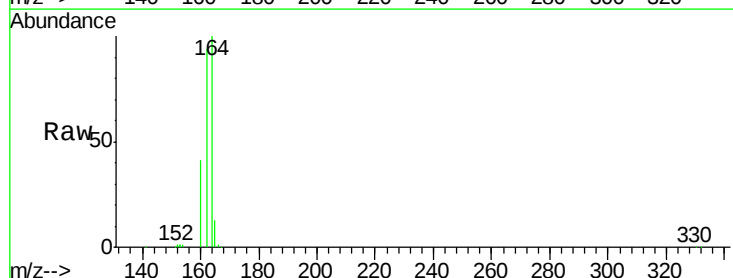
Tgt Ion:164 Resp: 49860

Ion Ratio Lower Upper

164 100

162 93.6 79.5 119.3

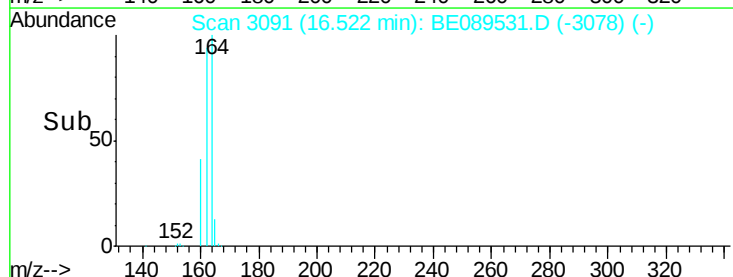
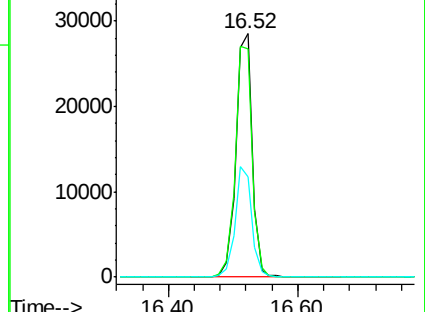
160 41.3 37.6 56.4

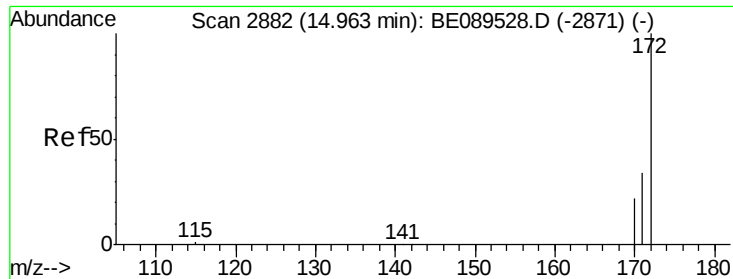


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E





#7

2-Fluorobiphenyl

Concen: 8.37 ng

RT: 14.97 min Scan# 2884

Delta R.T. 0.00 min

Lab File: BE089531.D

Acq: 6 Feb 2015 17:09

Instrument :

BNA_E

LabSampleId :

SSTDIC010

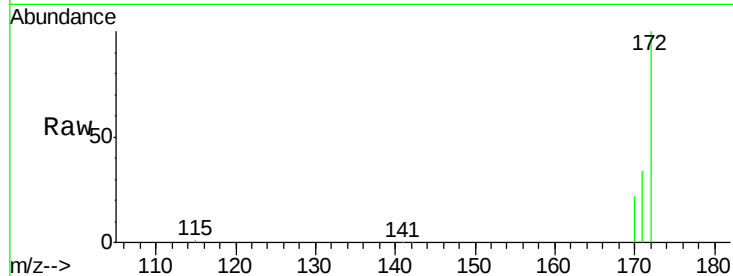
Tgt Ion:172 Resp: 131095

Ion Ratio Lower Upper

172 100

171 33.6 27.7 41.5

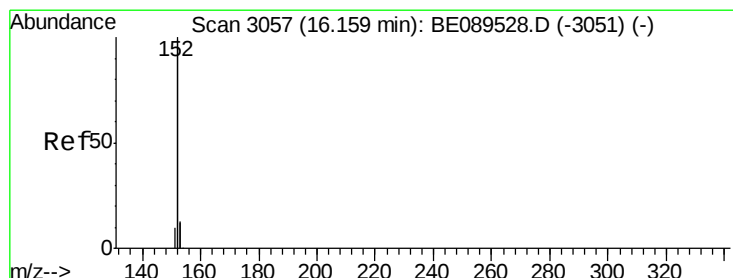
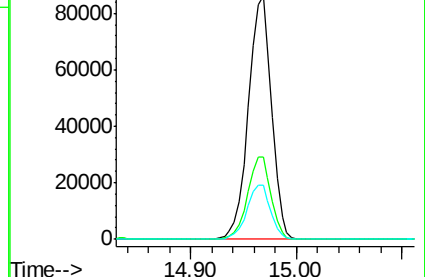
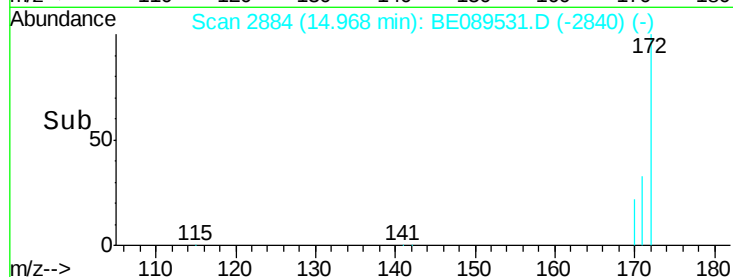
170 22.1 18.3 27.5



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



#8

Acenaphthylene

Concen: 8.76 ng

RT: 16.17 min Scan# 3059

Delta R.T. 0.01 min

Lab File: BE089531.D

Acq: 6 Feb 2015 17:09

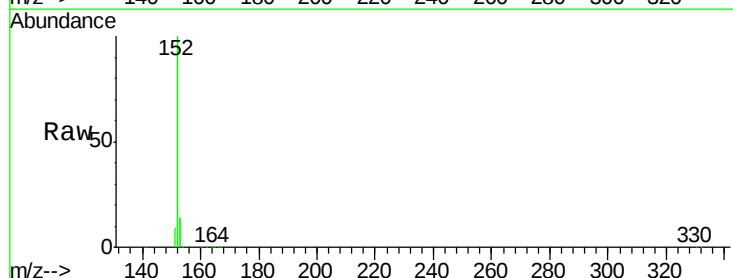
Tgt Ion:152 Resp: 918516

Ion Ratio Lower Upper

152 100

151 4.9 4.0 6.0

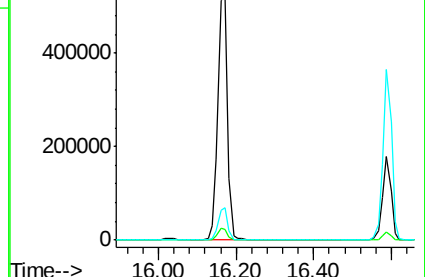
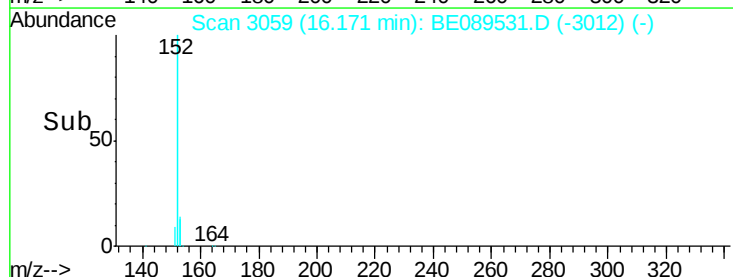
153 12.9 10.6 15.8

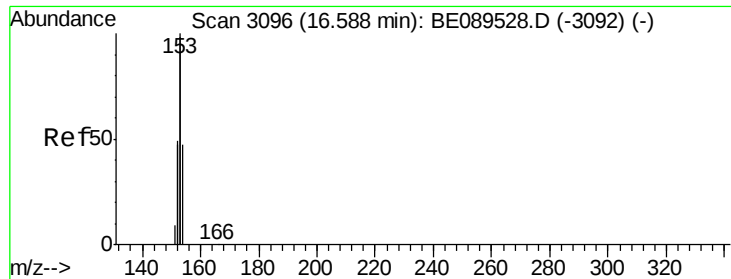


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





#9

Acenaphthene

Concen: 8.23 ng

RT: 16.59 min Scan# 3097

Delta R.T. 0.00 min

Lab File: BE089531.D

Acq: 6 Feb 2015 17:09

Instrument :

BNA_E

LabSampleId :

SSTDIC010

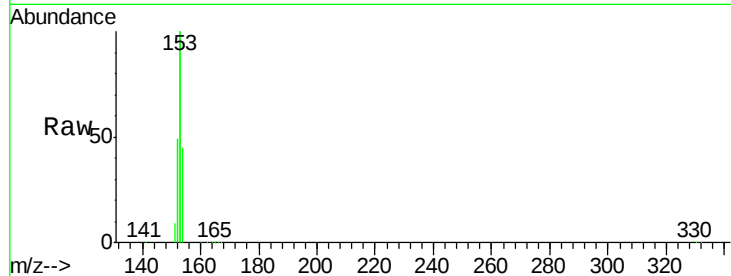
Tgt Ion:154 Resp: 132592

Ion Ratio Lower Upper

154 100

153 429.8 340.8 511.2

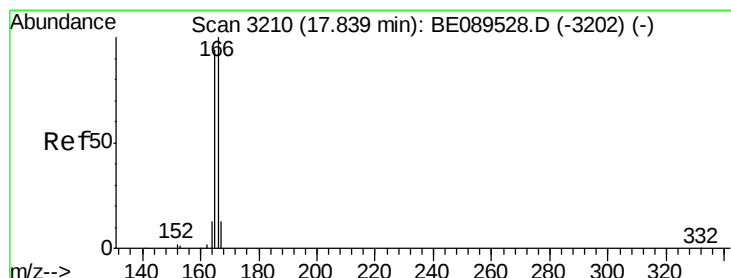
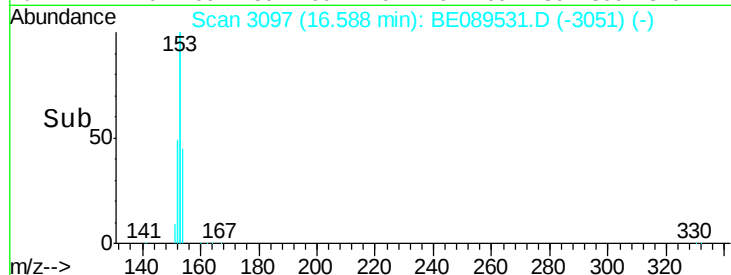
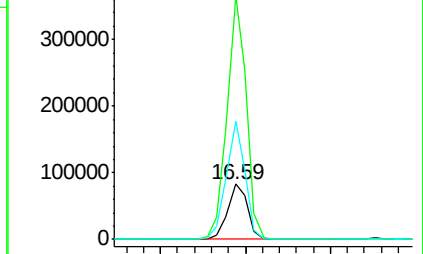
152 205.4 165.5 248.3



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



#10

Fluorene

Concen: 8.15 ng

RT: 17.84 min Scan# 3211

Delta R.T. 0.00 min

Lab File: BE089531.D

Acq: 6 Feb 2015 17:09

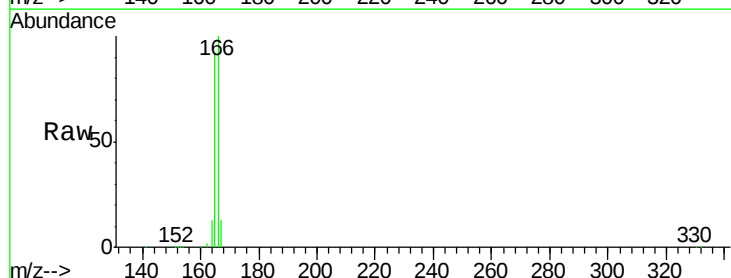
Tgt Ion:166 Resp: 147744

Ion Ratio Lower Upper

166 100

165 92.2 75.5 113.3

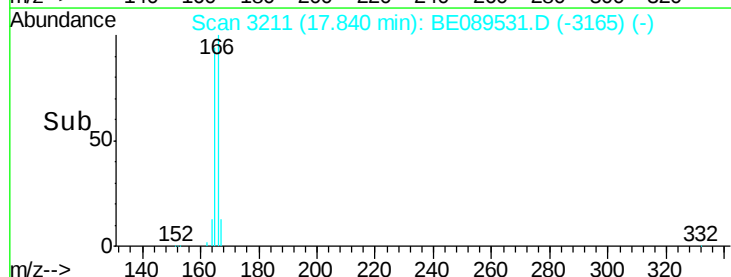
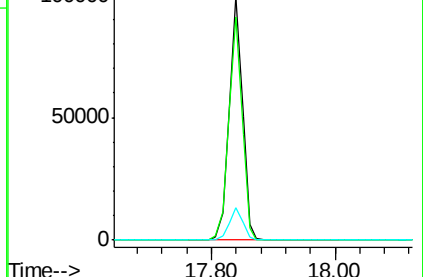
167 13.3 10.9 16.3

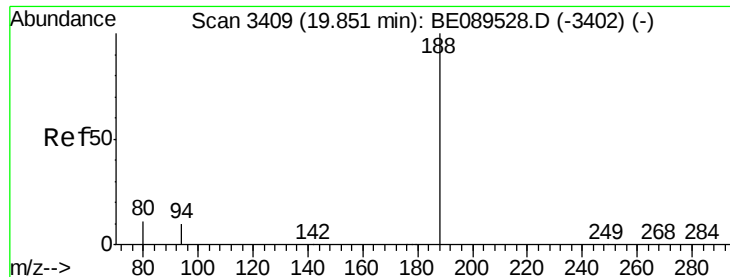


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

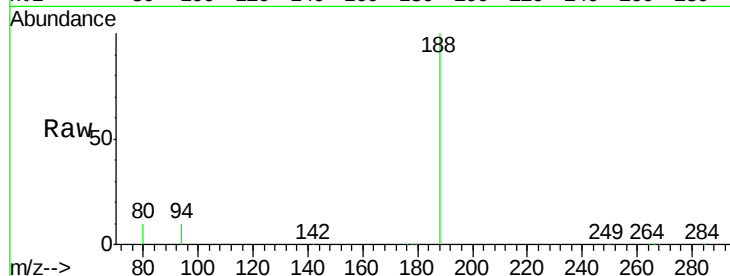




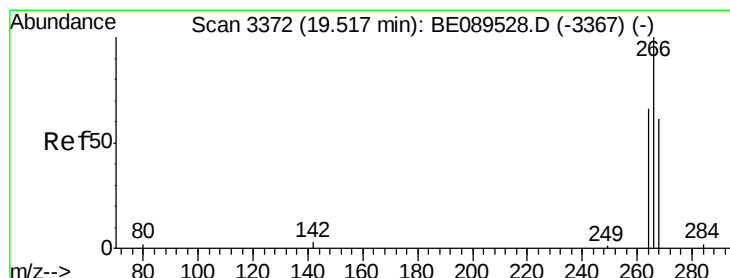
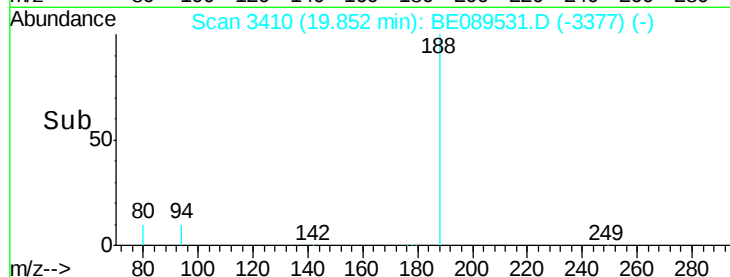
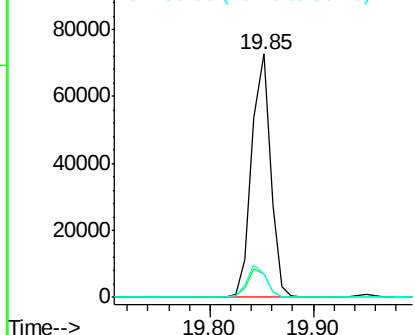
#11
Phenanthrene-d10
Concen: 5.00 ng
RT: 19.85 min Scan# 3410
Delta R.T. 0.00 min
Lab File: BE089531.D
Acq: 6 Feb 2015 17:09

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Tgt Ion:188 Resp: 92033
Ion Ratio Lower Upper
188 100
94 9.9 8.4 12.6
80 9.8 8.6 12.8

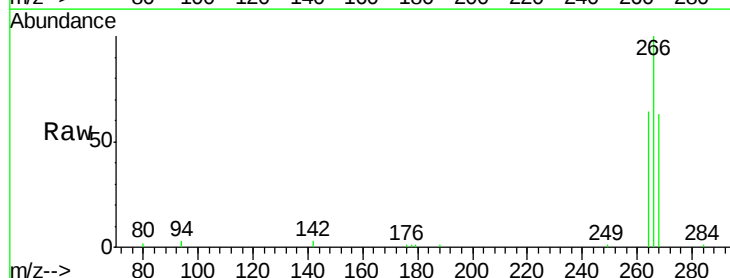


Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BE0
Ion 80.00 (79.70 to 80.70): BE0

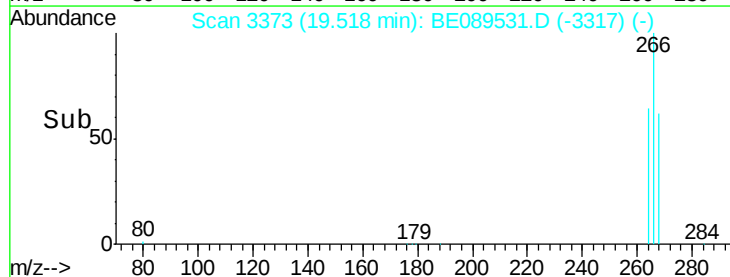
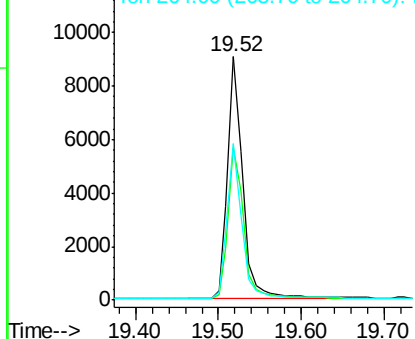


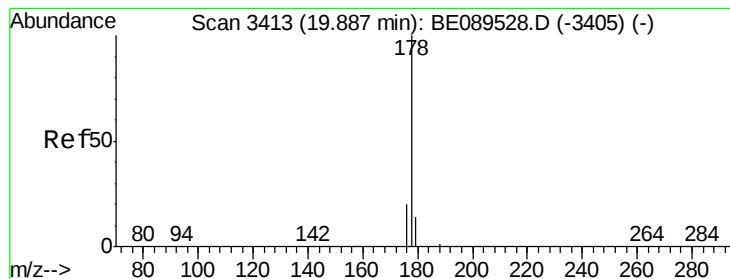
#12
Pentachlorophenol
Concen: 16.77 ng
RT: 19.52 min Scan# 3373
Delta R.T. 0.00 min
Lab File: BE089531.D
Acq: 6 Feb 2015 17:09

Tgt Ion:266 Resp: 11633
Ion Ratio Lower Upper
266 100
268 62.6 57.9 86.9
264 64.3 60.2 90.4



Abundance Ion 265.70 (265.40 to 266.40): E
Ion 268.00 (267.70 to 268.70): E
Ion 264.00 (263.70 to 264.70): E





#13

Phenanthrene

Concen: 8.05 ng

RT: 19.89 min Scan# 3414

Delta R.T. 0.00 min

Lab File: BE089531.D

Acq: 6 Feb 2015 17:09

Instrument :

BNA_E

LabSampleId :

SSTDICC010

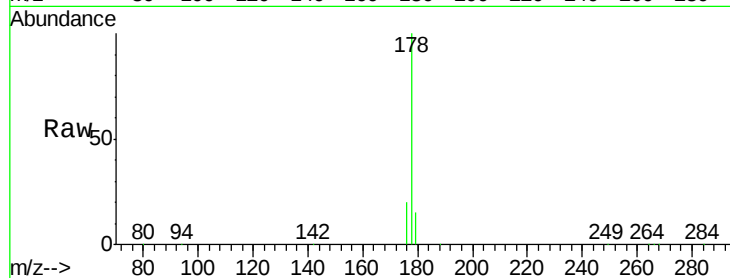
Tgt Ion:178 Resp: 223349

Ion Ratio Lower Upper

178 100

176 18.8 15.4 23.0

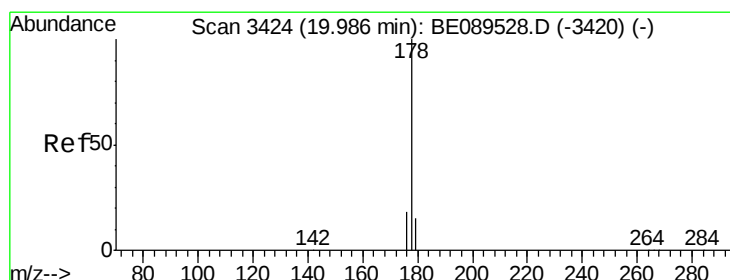
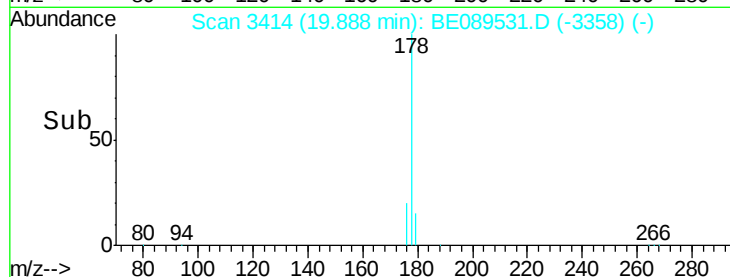
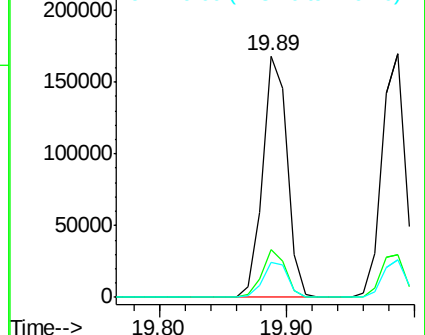
179 15.2 12.2 18.2



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#14

Anthracene

Concen: 8.66 ng

RT: 19.99 min Scan# 3425

Delta R.T. 0.00 min

Lab File: BE089531.D

Acq: 6 Feb 2015 17:09

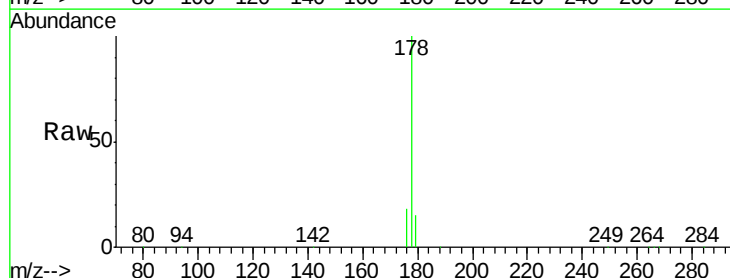
Tgt Ion:178 Resp: 217475

Ion Ratio Lower Upper

178 100

176 18.2 14.5 21.7

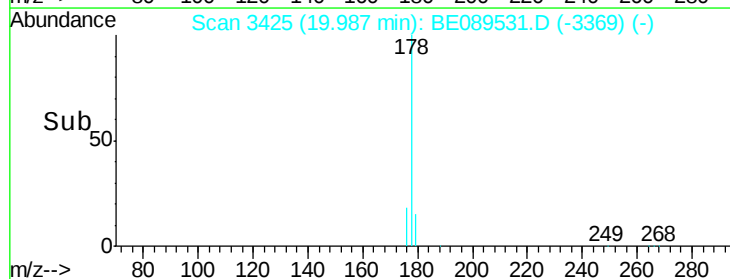
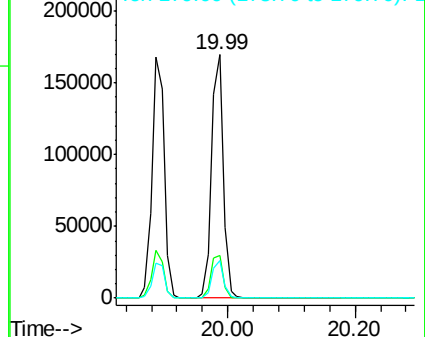
179 15.2 12.2 18.2

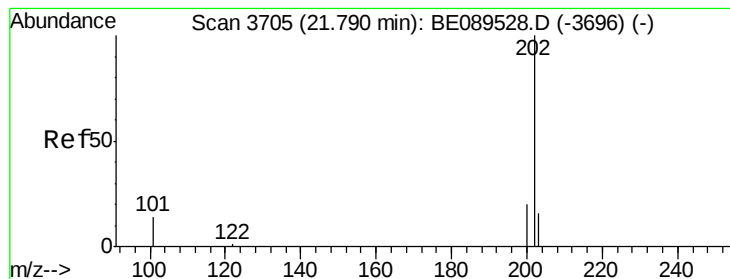


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#15

Fluoranthene

Concen: 9.15 ng

RT: 21.79 min Scan# 3706

Delta R.T. 0.00 min

Lab File: BE089531.D

Acq: 6 Feb 2015 17:09

Instrument :

BNA_E

LabSampleId :

SSTDIC010

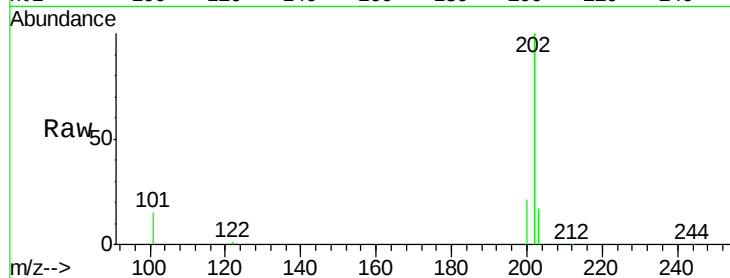
Tgt Ion:202 Resp: 234899

Ion Ratio Lower Upper

202 100

101 14.1 11.6 17.4

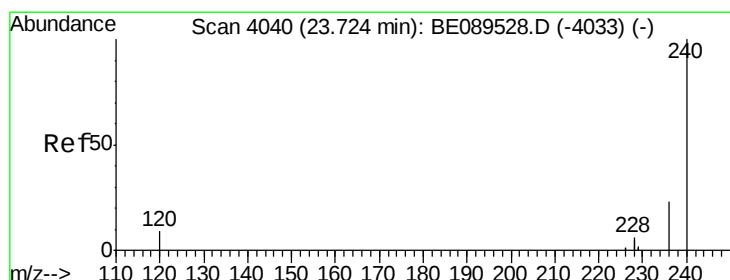
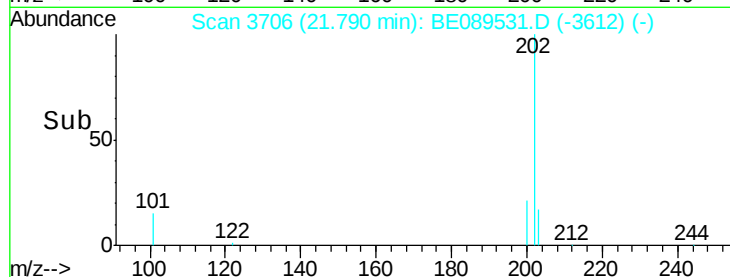
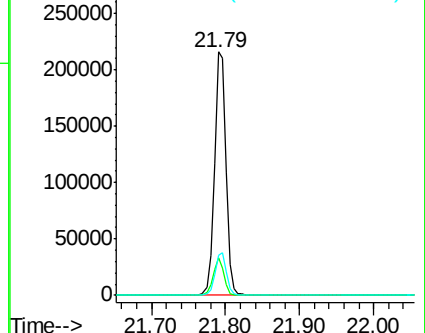
203 17.2 13.6 20.4



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



#16

Chrysene-d12

Concen: 5.00 ng

RT: 23.73 min Scan# 4042

Delta R.T. 0.00 min

Lab File: BE089531.D

Acq: 6 Feb 2015 17:09

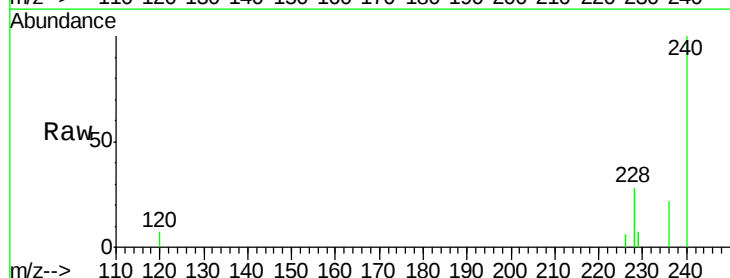
Tgt Ion:240 Resp: 113117

Ion Ratio Lower Upper

240 100

120 6.7 7.2 10.8#

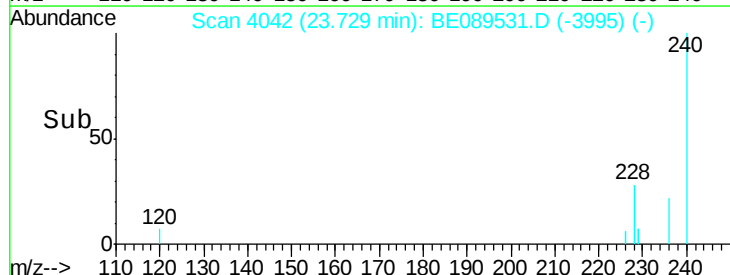
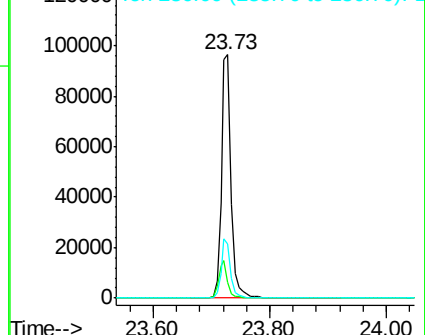
236 22.1 18.5 27.7

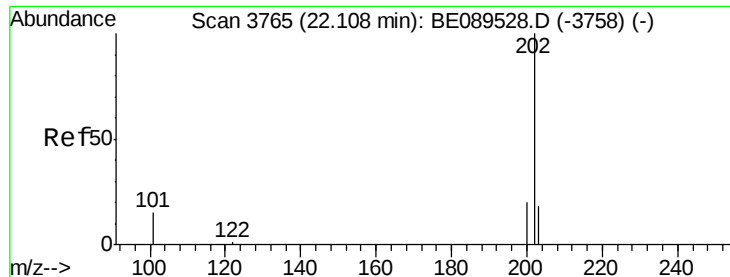


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#17

Pyrene

Concen: 7.27 ng

RT: 22.11 min Scan# 3766

Delta R.T. 0.00 min

Lab File: BE089531.D

Acq: 6 Feb 2015 17:09

Instrument :

BNA_E

LabSampleId :

SSTDIC010

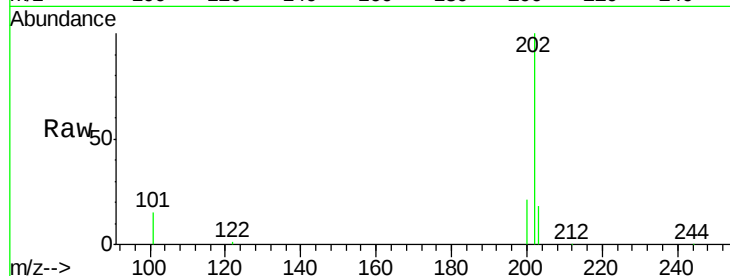
Tgt Ion:202 Resp: 249581

Ion Ratio Lower Upper

202 100

200 20.7 16.3 24.5

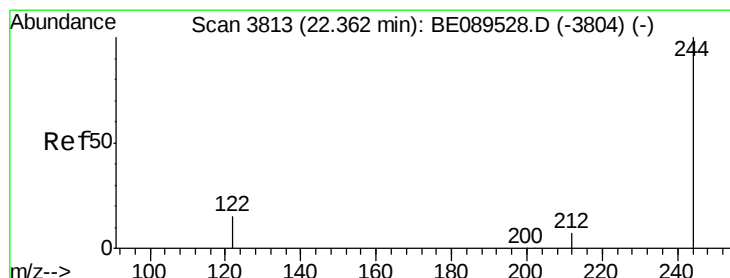
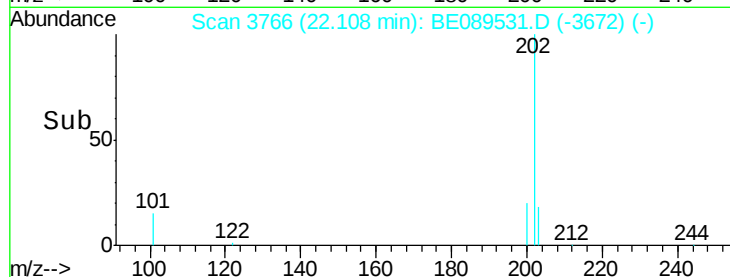
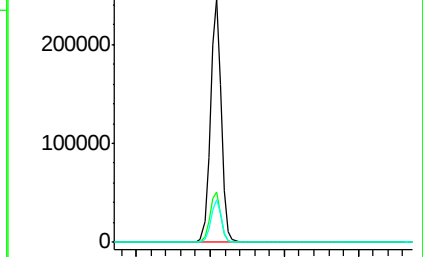
203 17.4 13.5 20.3



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



#18

Terphenyl-d14

Concen: 7.40 ng

RT: 22.37 min Scan# 3815

Delta R.T. 0.01 min

Lab File: BE089531.D

Acq: 6 Feb 2015 17:09

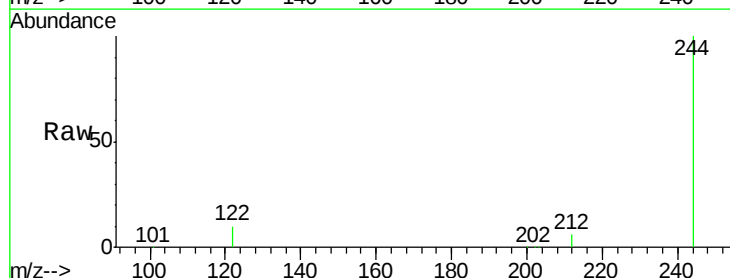
Tgt Ion:244 Resp: 149300

Ion Ratio Lower Upper

244 100

212 6.4 5.8 8.8

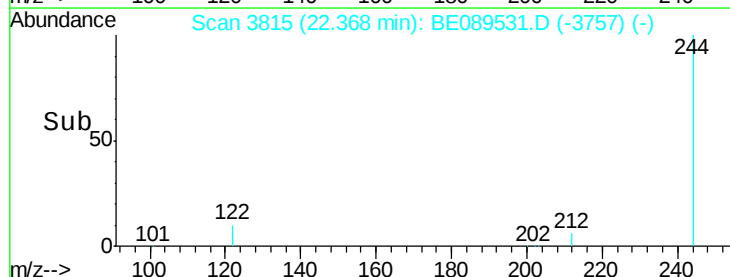
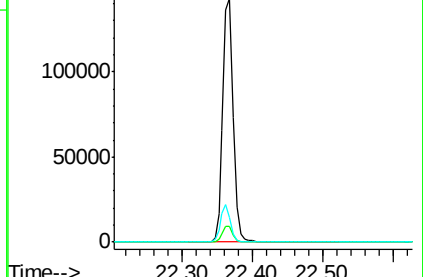
122 10.4 12.6 19.0#

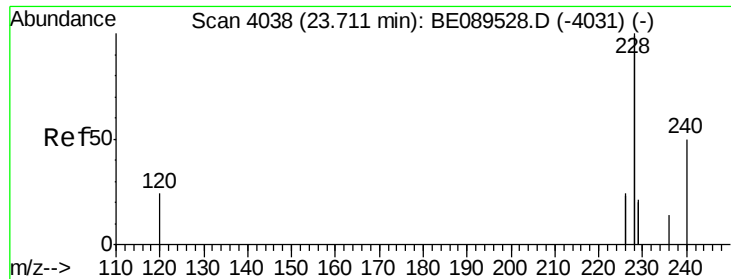


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#19

Benzo(a)anthracene

Concen: 8.27 ng

RT: 23.71 min Scan# 4039

Delta R.T. -0.00 min

Lab File: BE089531.D

Acq: 6 Feb 2015 17:09

Instrument :

BNA_E

LabSampleId :

SSTDIC010

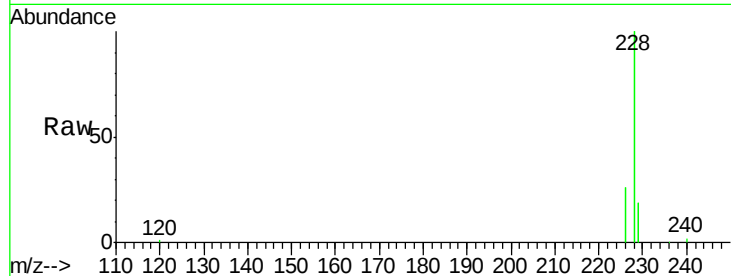
Tgt Ion:228 Resp: 1015147

Ion Ratio Lower Upper

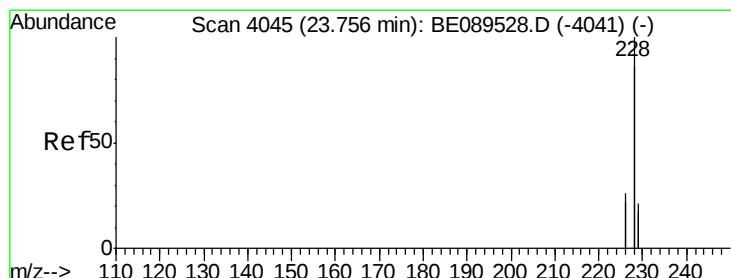
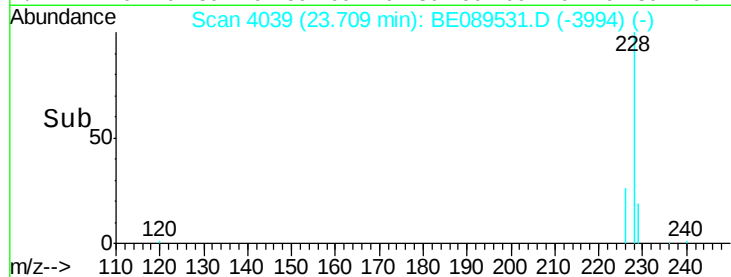
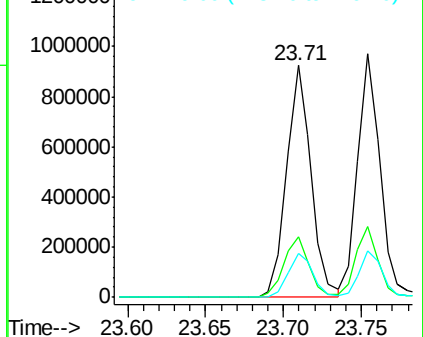
228 100

226 26.3 19.0 28.4

229 19.1 16.8 25.2



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



#20

Chrysene

Concen: 7.82 ng

RT: 23.75 min Scan# 4046

Delta R.T. -0.00 min

Lab File: BE089531.D

Acq: 6 Feb 2015 17:09

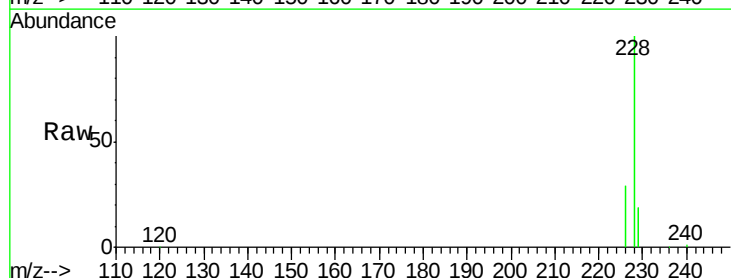
Tgt Ion:228 Resp: 996778

Ion Ratio Lower Upper

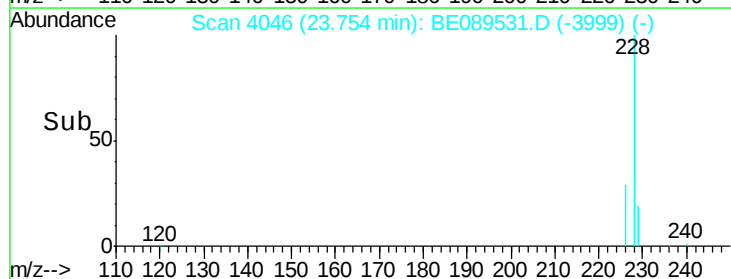
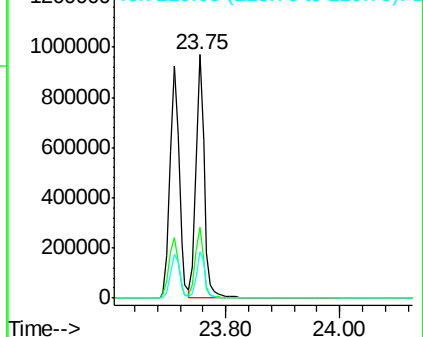
228 100

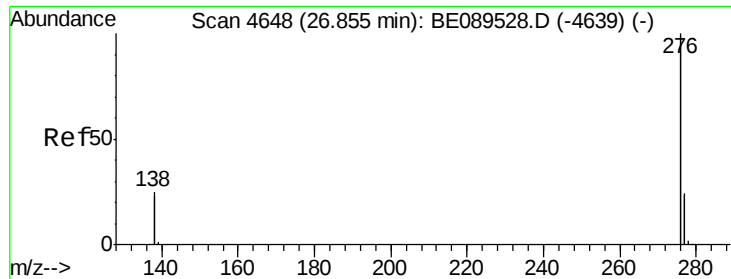
226 29.2 21.0 31.4

229 18.9 16.7 25.1



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





#21

Indeno(1,2,3-cd)pyrene

Concen: 10.28 ng

RT: 26.86 min Scan# 4650

Delta R.T. 0.01 min

Lab File: BE089531.D

Acq: 6 Feb 2015 17:09

Instrument :

BNA_E

LabSampleId :

SSTDIC010

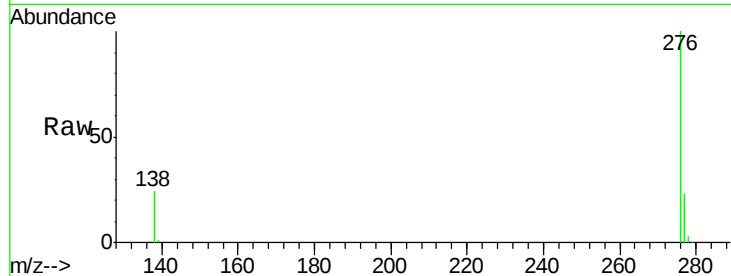
Tgt Ion:276 Resp: 1456290

Ion Ratio Lower Upper

276 100

138 28.9 23.0 34.4

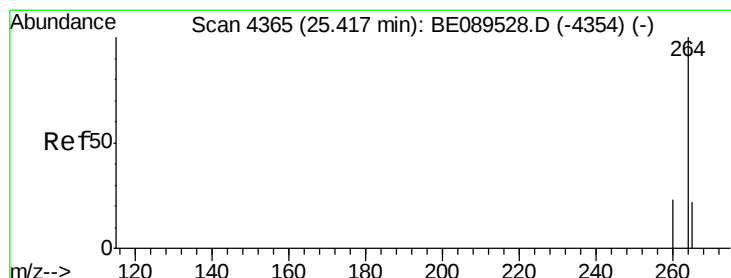
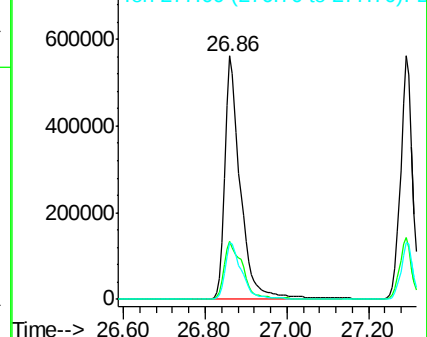
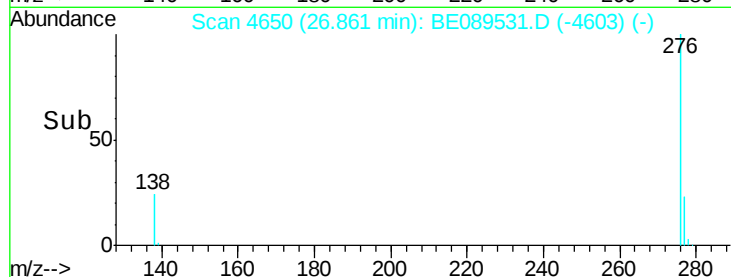
277 25.2 19.9 29.9



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



#22

Perylene-d12

Concen: 5.00 ng

RT: 25.42 min Scan# 4367

Delta R.T. 0.00 min

Lab File: BE089531.D

Acq: 6 Feb 2015 17:09

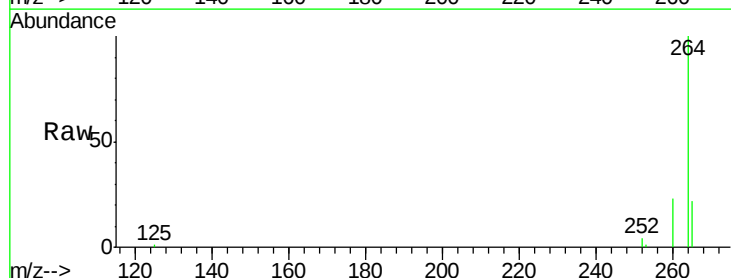
Tgt Ion:264 Resp: 122242

Ion Ratio Lower Upper

264 100

260 22.9 18.7 28.1

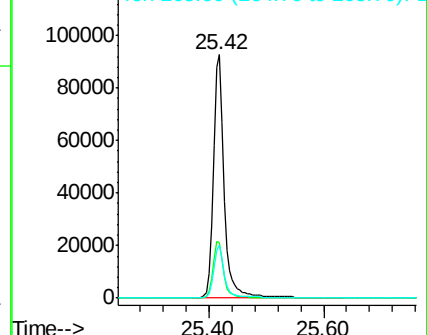
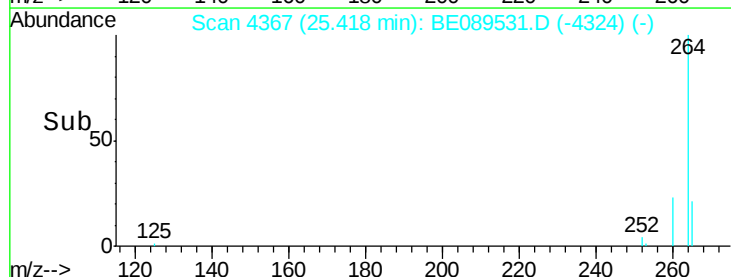
265 21.6 17.5 26.3

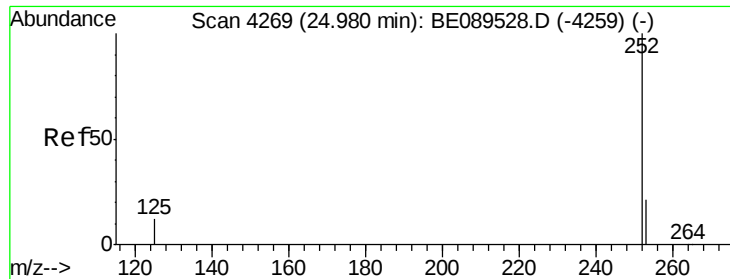


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E

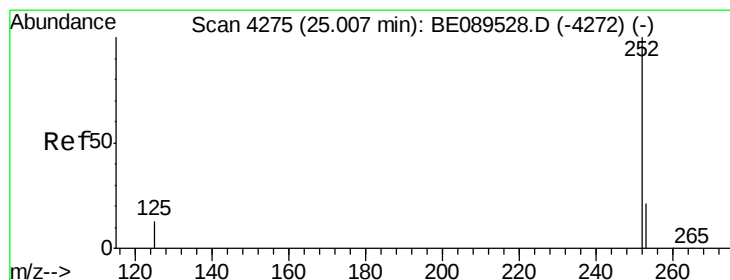
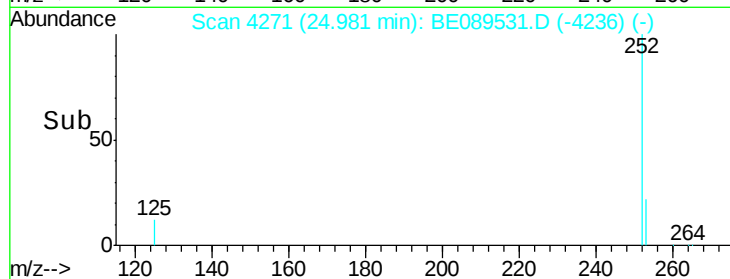
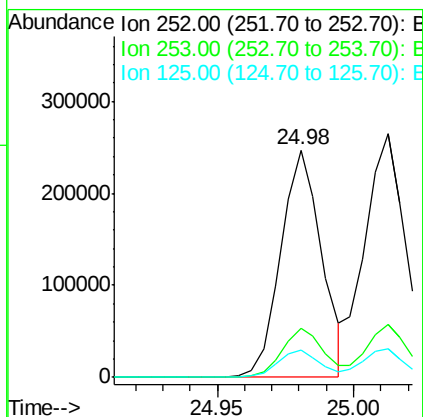
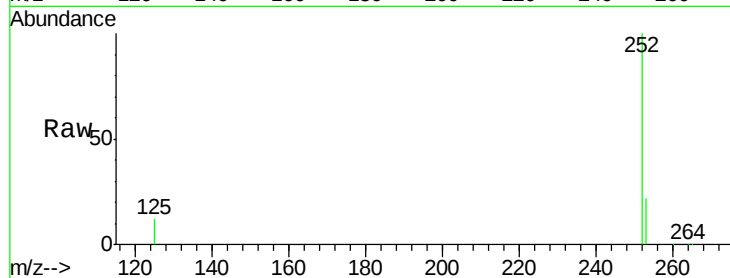




#23
Benzo(b)fluoranthene
Concen: 9.50 ng
RT: 24.98 min Scan# 4271
Delta R.T. 0.00 min
Lab File: BE089531.D
Acq: 6 Feb 2015 17:09

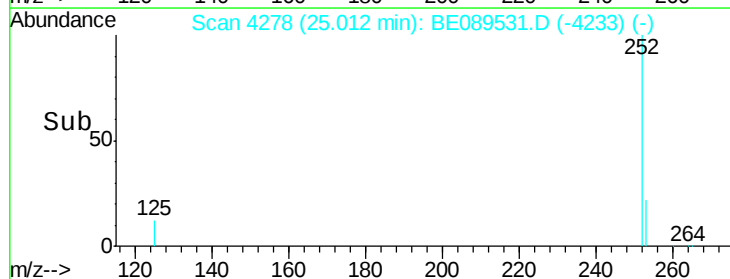
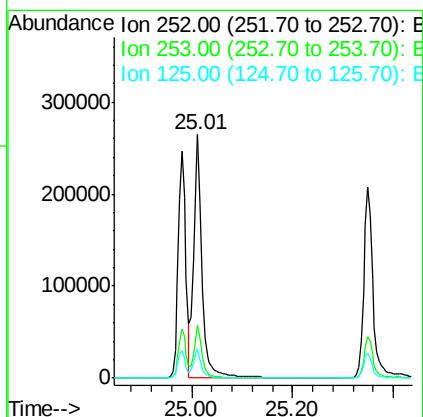
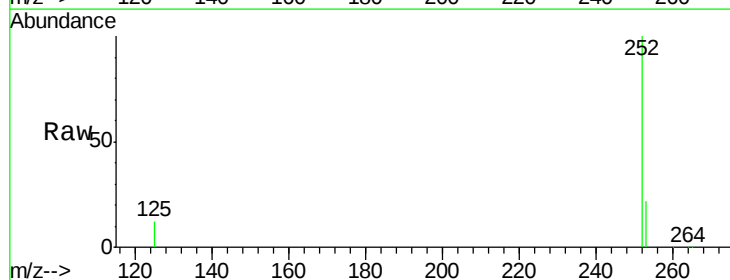
Instrument :
BNA_E
LabSampleId :
SSTDICC010

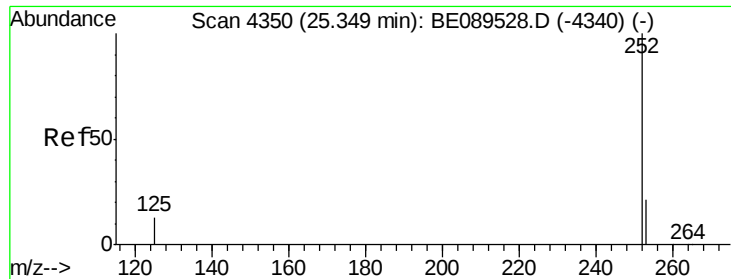
Tgt Ion:252 Resp: 257145
Ion Ratio Lower Upper
252 100
253 21.7 17.4 26.0
125 11.9 10.4 15.6



#24
Benzo(k)fluoranthene
Concen: 7.99 ng
RT: 25.01 min Scan# 4278
Delta R.T. 0.01 min
Lab File: BE089531.D
Acq: 6 Feb 2015 17:09

Tgt Ion:252 Resp: 310609
Ion Ratio Lower Upper
252 100
253 21.8 17.2 25.8
125 11.7 10.6 15.8





#25

Benzo(a)pyrene

Concen: 9.53 ng

RT: 25.35 min Scan# 4352

Delta R.T. 0.00 min

Lab File: BE089531.D

Acq: 6 Feb 2015 17:09

Instrument :

BNA_E

LabSampleId :

SSTDICC010

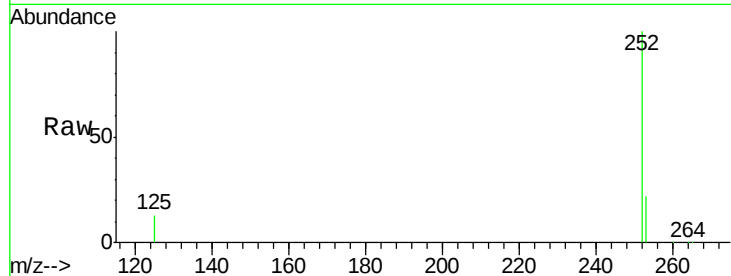
Tgt Ion:252 Resp: 270359

Ion Ratio Lower Upper

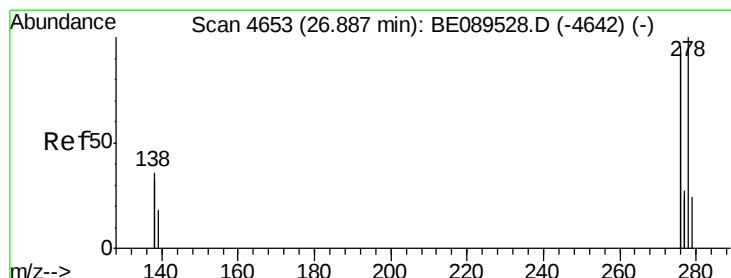
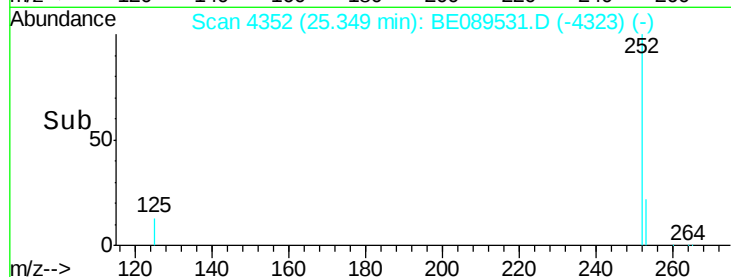
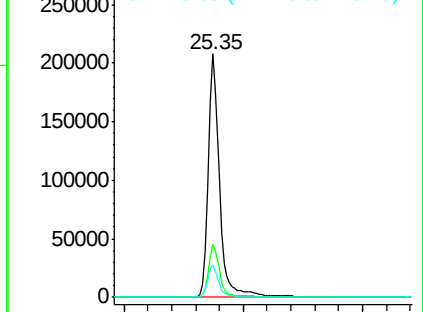
252 100

253 21.5 17.8 26.6

125 13.2 11.4 17.2



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



#26

Dibenzo(a,h)anthracene

Concen: 9.95 ng

RT: 26.89 min Scan# 4655

Delta R.T. 0.01 min

Lab File: BE089531.D

Acq: 6 Feb 2015 17:09

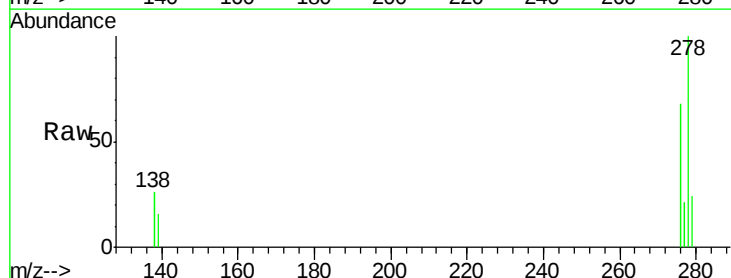
Tgt Ion:278 Resp: 314371

Ion Ratio Lower Upper

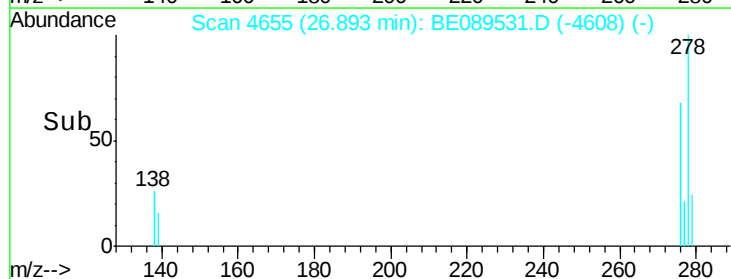
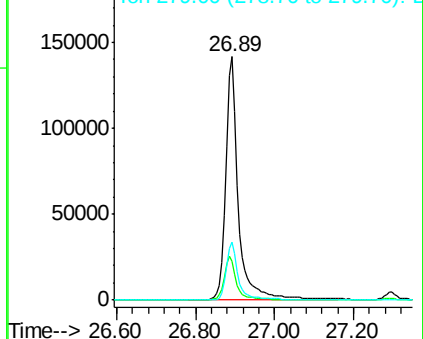
278 100

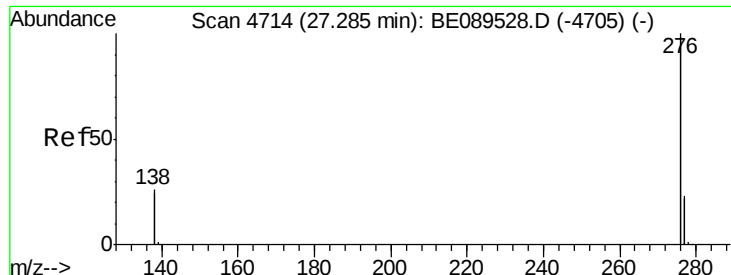
139 16.2 15.7 23.5

279 23.9 19.5 29.3



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





#27

Benzo(g,h,i)perylene

Concen: 9.14 ng

RT: 27.29 min Scan# 4716

Delta R.T. 0.01 min

Lab File: BE089531.D

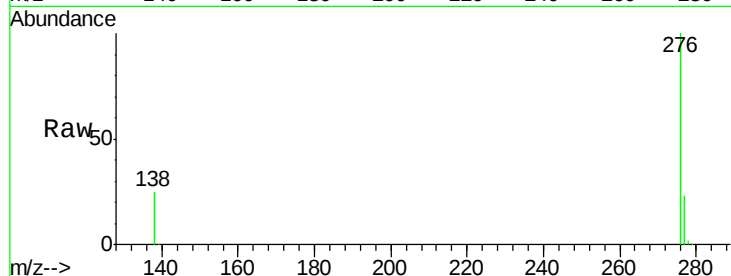
Acq: 6 Feb 2015 17:09

Instrument :

BNA_E

LabSampleId :

SSTDIC010



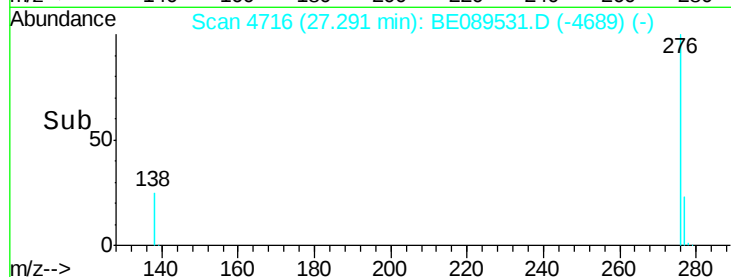
Tgt Ion: 276 Resp: 1208292

Ion Ratio Lower Upper

276 100

277 23.2 18.6 27.8

138 25.5 20.9 31.3



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

