

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE011515\
 Data File : BE089397.D
 Acq On : 15 Jan 2015 17:27
 Operator : TP/IZ
 Sample : SSTDICC002
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_M
 LabSampleId :
 SSTDICC0.1

Quant Time: Jan 16 05:29:30 2015
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\SIM-PAH-BE011515.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jan 16 05:21:30 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.80	152	20616	5.00	ng	0.00
3) Naphthalene-d8	8.36	136	78082	5.00	ng	0.00
7) Acenaphthene-d10	10.49	164	35060	5.00	ng	0.00
12) Phenanthrene-d10	12.50	188	53190	5.00	ng	0.00
17) Chrysene-d12	17.78	240	39610	5.00	ng	0.00
23) Perylene-d12	20.81	264	31887	5.00	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
4) Nitrobenzene-d5	7.50	82	9183	1.81	ng	0.00
8) 2-Fluorobiphenyl	9.70	172	17976	1.88	ng	0.00
19) Terphenyl-d14	15.59	244	11688	1.75	ng	0.00

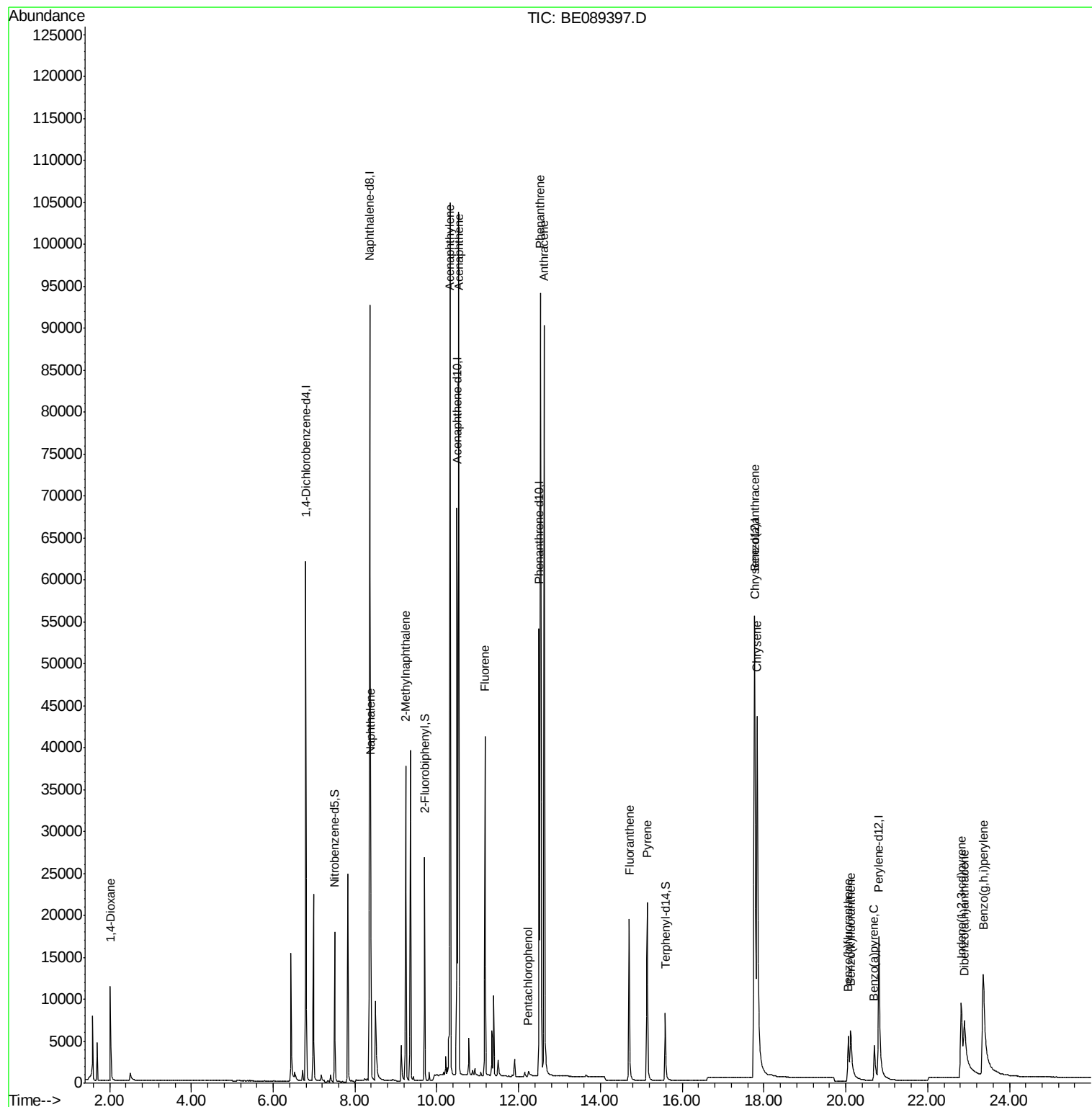
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 1,4-Dioxane	2.02	88	5916	2.00	ng	99
5) Naphthalene	8.39	128	33132	1.92	ng	100
6) 2-Methylnaphthalene	9.24	142	20175	1.82	ng	98
9) Acenaphthylene	10.32	152	114920	1.95	ng	100
10) Acenaphthene	10.54	154	17481	1.92	ng	98
11) Fluorene	11.17	166	18811	1.98	ng	99
13) Pentachlorophenol	12.24	266	1111	1.95	ng	89
14) Phenanthrene	12.54	178	103921	1.92	ng	100
15) Anthracene	12.62	178	99988	1.97	ng	100
16) Fluoranthene	14.70	202	21484	2.06	ng	99
18) Pyrene	15.14	202	23325	1.81	ng	100
20) Benzo(a)anthracene	17.76	228	56919	1.62	ng	98
21) Chrysene	17.83	228	76820	1.91	ng	98
22) Indeno(1,2,3-cd)pyrene	22.83	276	17745	0.74	ng	# 75
24) Benzo(b)fluoranthene	20.06	252	8049	1.44	ng	96
25) Benzo(k)fluoranthene	20.12	252	16135	1.86	ng	97
26) Benzo(a)pyrene	20.70	252	8449	1.55	ng	95
27) Dibenzo(a,h)anthracene	22.91	278	6235	1.44	ng	92
28) Benzo(g,h,i)perylene	23.36	276	39539	1.57	ng	93

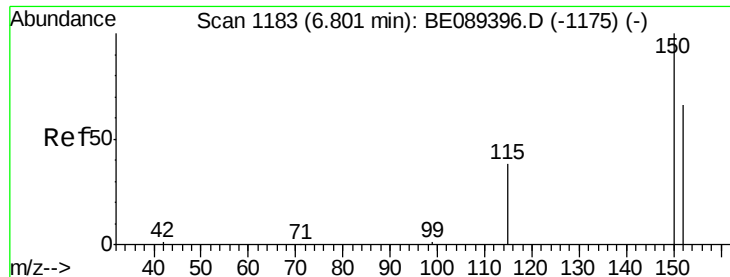
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 6.80 min Scan# 1183

Delta R.T. -0.00 min

Lab File: BE089397.D

Acq: 15 Jan 2015 17:27

Instrument :

BNA_M

LabSampleId :

SSTDIC0.1

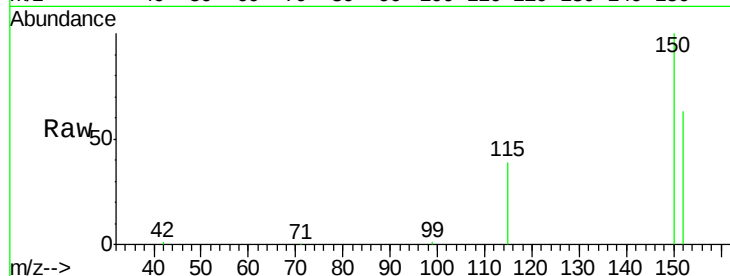
Tgt Ion:152 Resp: 20616

Ion Ratio Lower Upper

152 100

150 158.5 121.9 182.9

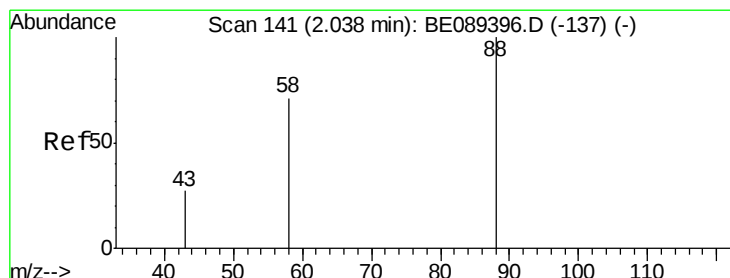
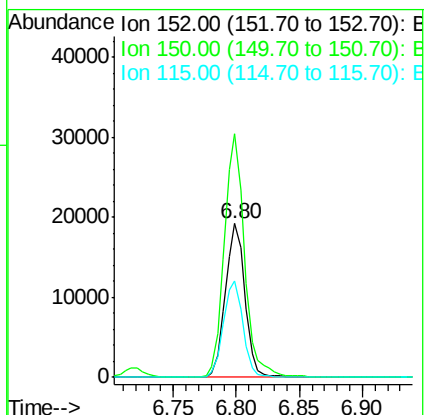
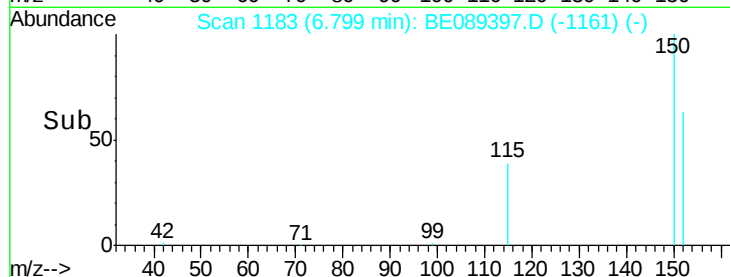
115 62.4 47.0 70.6



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



#2

1,4-Dioxane

Concen: 2.00 ng

RT: 2.02 min Scan# 138

Delta R.T. -0.01 min

Lab File: BE089397.D

Acq: 15 Jan 2015 17:27

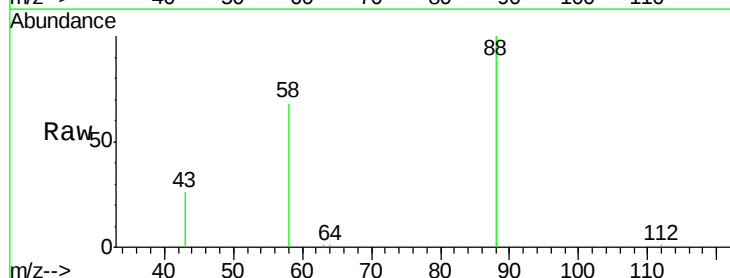
Tgt Ion: 88 Resp: 5916

Ion Ratio Lower Upper

88 100

58 79.8 64.6 96.8

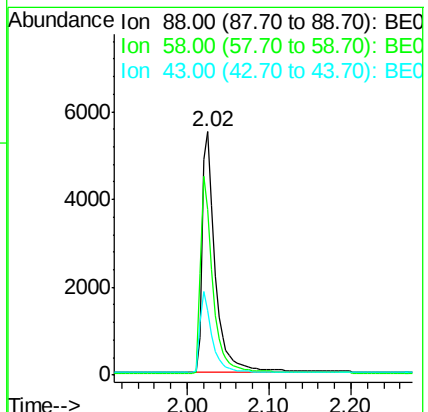
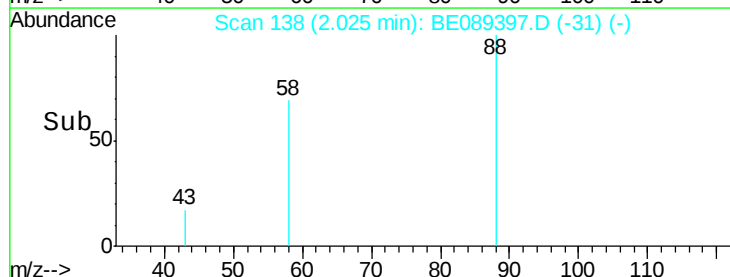
43 32.1 25.7 38.5

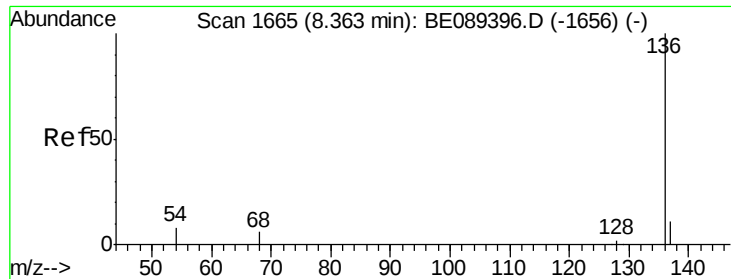


Abundance Ion 88.00 (87.70 to 88.70): BE0

Ion 58.00 (57.70 to 58.70): BE0

Ion 43.00 (42.70 to 43.70): BE0





#3

Naphthalene-d8

Concen: 5.00 ng

RT: 8.36 min Scan# 1665

Delta R.T. -0.00 min

Lab File: BE089397.D

Acq: 15 Jan 2015 17:27

Instrument :

BNA_M

LabSampleId :

SSTDIC0.1

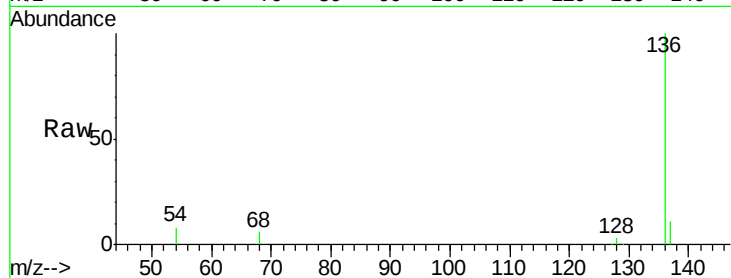
Tgt Ion: 136 Resp: 78082

Ion Ratio Lower Upper

136 100

137 10.9 8.7 13.1

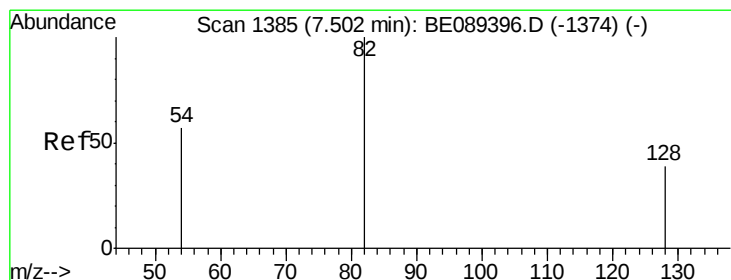
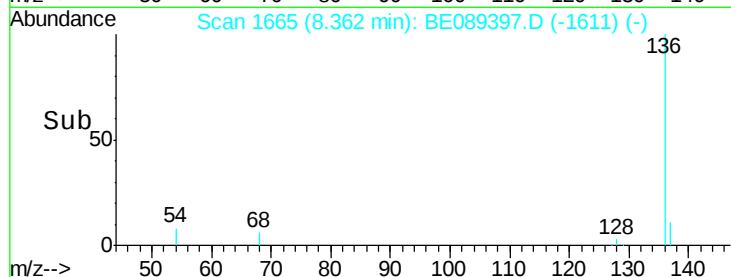
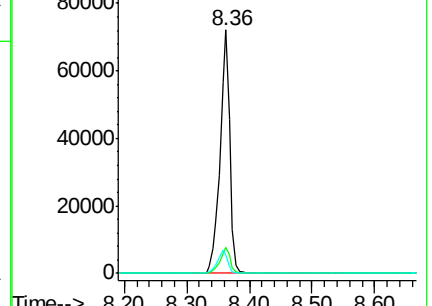
54 7.8 6.5 9.7



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



#4

Nitrobenzene-d5

Concen: 1.81 ng

RT: 7.50 min Scan# 1385

Delta R.T. -0.00 min

Lab File: BE089397.D

Acq: 15 Jan 2015 17:27

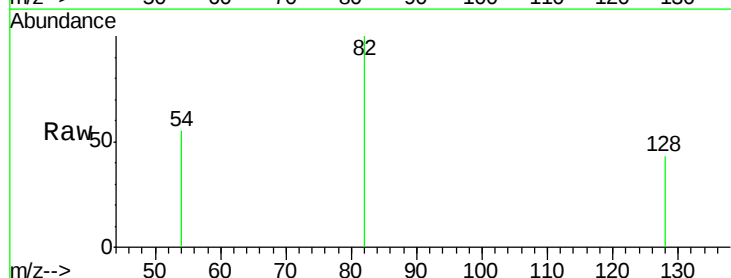
Tgt Ion: 82 Resp: 9183

Ion Ratio Lower Upper

82 100

128 43.2 31.5 47.3

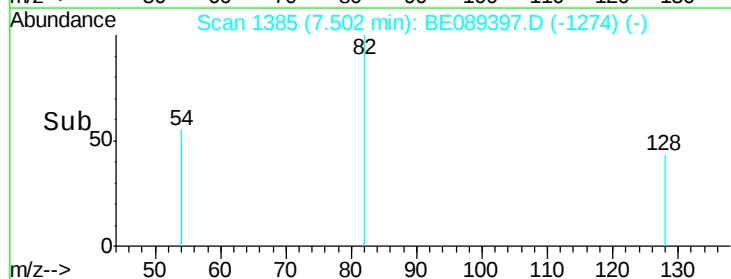
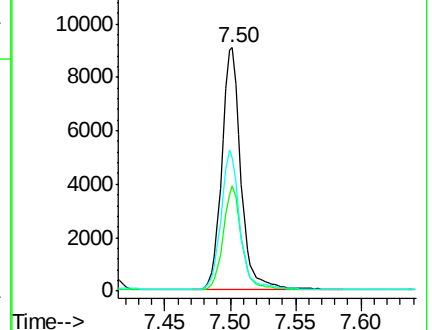
54 54.9 46.2 69.2

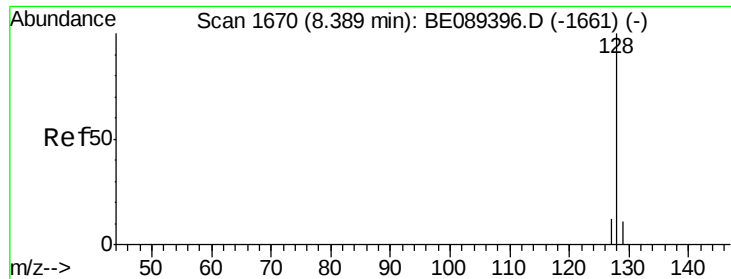


Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE0





#5

Naphthalene

Concen: 1.92 ng

RT: 8.39 min Scan# 1670

Delta R.T. -0.00 min

Lab File: BE089397.D

Acq: 15 Jan 2015 17:27

Instrument :

BNA_M

LabSampleId :

SSTDIC0.1

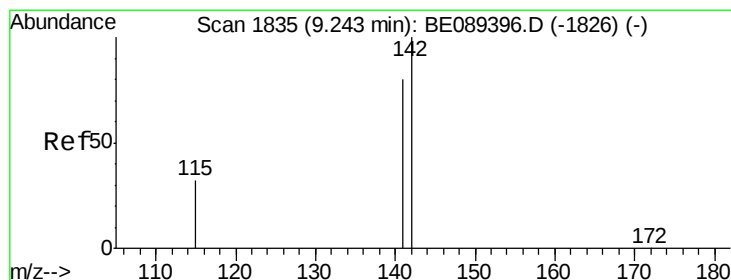
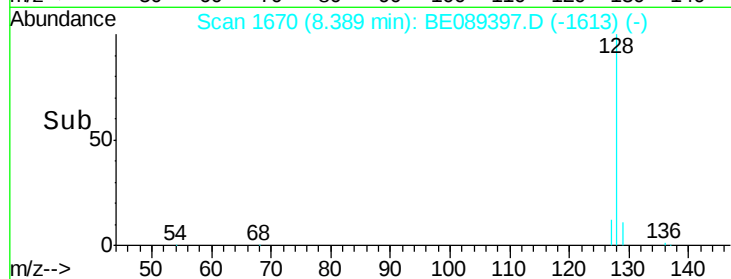
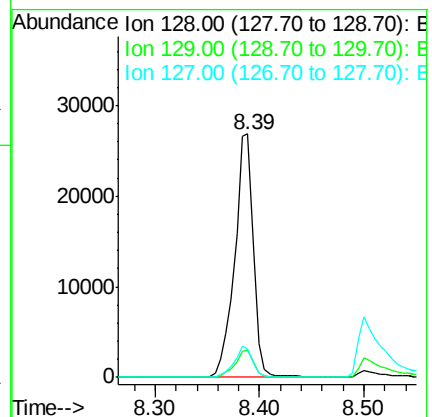
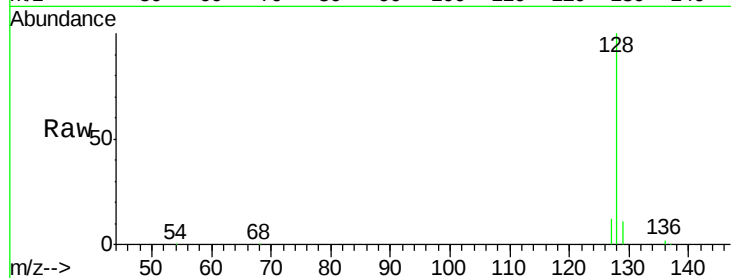
Tgt Ion:128 Resp: 33132

Ion Ratio Lower Upper

128 100

129 11.4 9.0 13.6

127 11.9 9.6 14.4



#6

2-Methylnaphthalene

Concen: 1.82 ng

RT: 9.24 min Scan# 1835

Delta R.T. 0.00 min

Lab File: BE089397.D

Acq: 15 Jan 2015 17:27

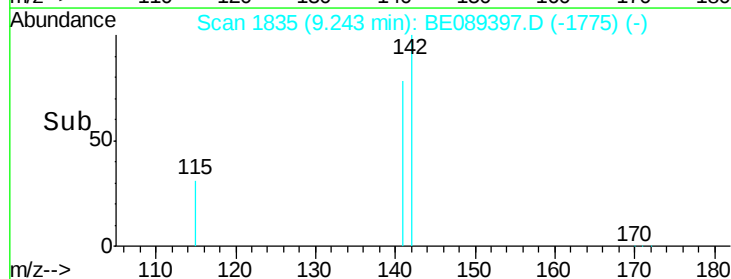
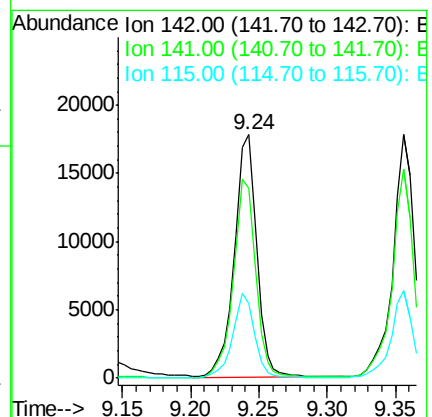
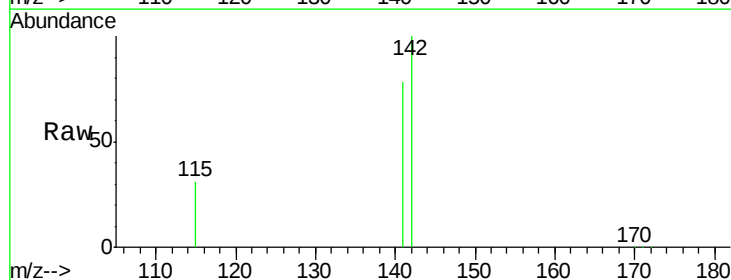
Tgt Ion:142 Resp: 20175

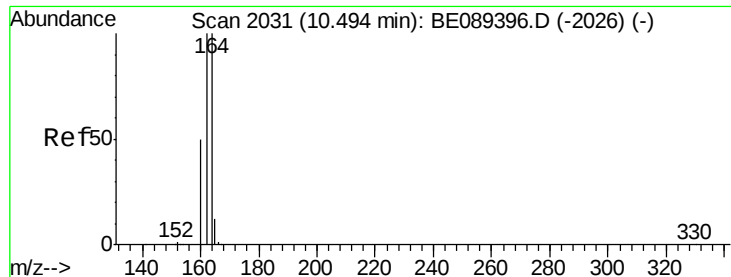
Ion Ratio Lower Upper

142 100

141 78.0 63.7 95.5

115 30.8 25.4 38.0





#7

Acenaphthene-d10

Concen: 5.00 ng

RT: 10.49 min Scan# 2031

Delta R.T. 0.00 min

Lab File: BE089397.D

Acq: 15 Jan 2015 17:27

Instrument :

BNA_M

LabSampleId :

SSTDICC0.1

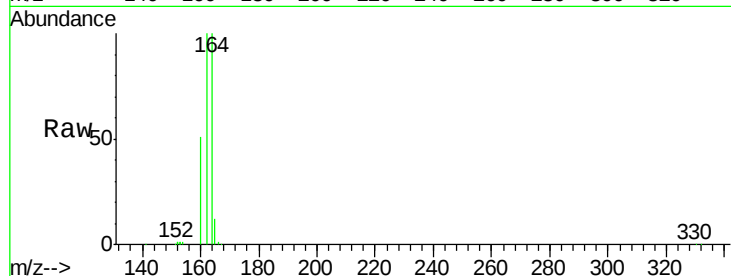
Tgt Ion:164 Resp: 35060

Ion Ratio Lower Upper

164 100

162 99.9 80.2 120.4

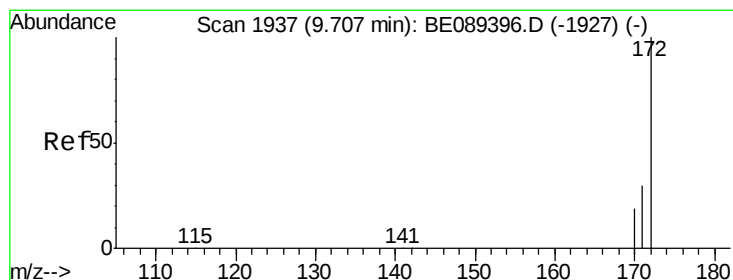
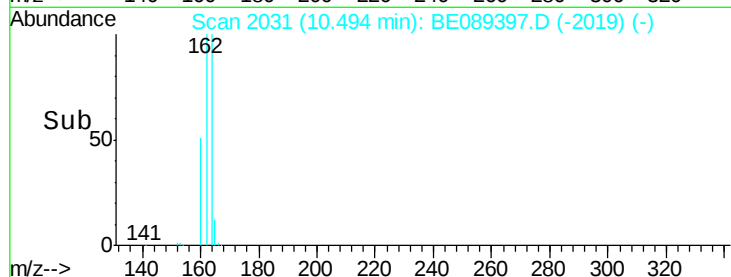
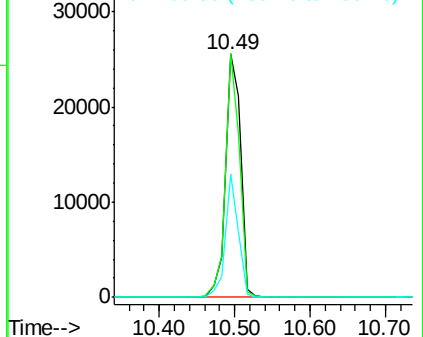
160 50.8 40.1 60.1



Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E



#8

2-Fluorobiphenyl

Concen: 1.88 ng

RT: 9.70 min Scan# 1936

Delta R.T. -0.00 min

Lab File: BE089397.D

Acq: 15 Jan 2015 17:27

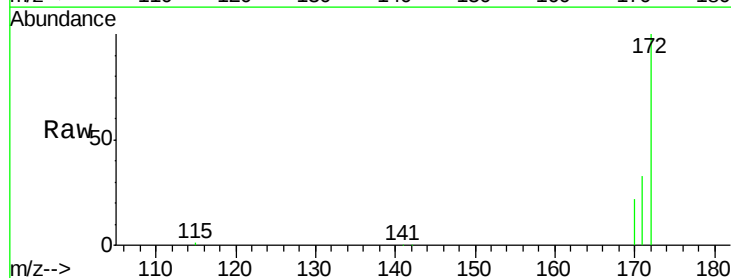
Tgt Ion:172 Resp: 17976

Ion Ratio Lower Upper

172 100

171 32.7 24.4 36.6

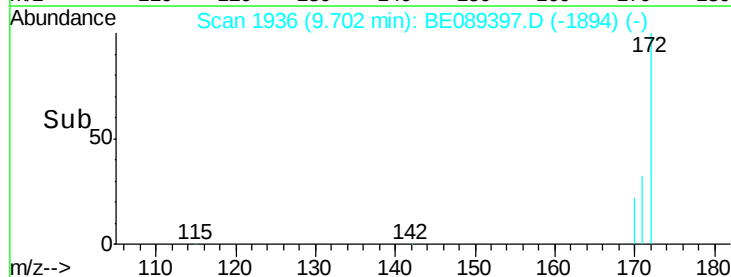
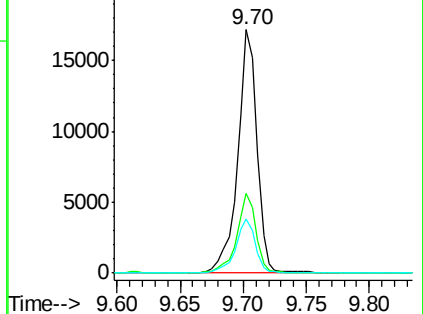
170 22.4 15.8 23.6

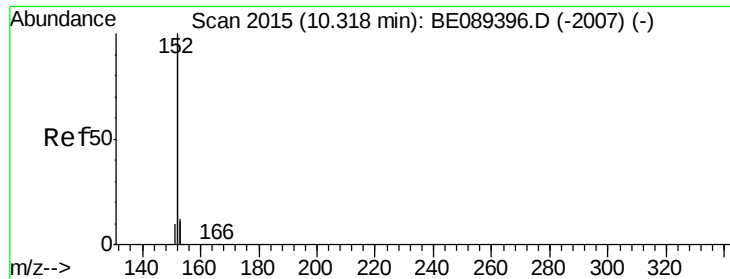


Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E





#9

Acenaphthylene

Concen: 1.95 ng

RT: 10.32 min Scan# 2015

Delta R.T. 0.00 min

Lab File: BE089397.D

Acq: 15 Jan 2015 17:27

Instrument :

BNA_M

LabSampleId :

SSTDICC0.1

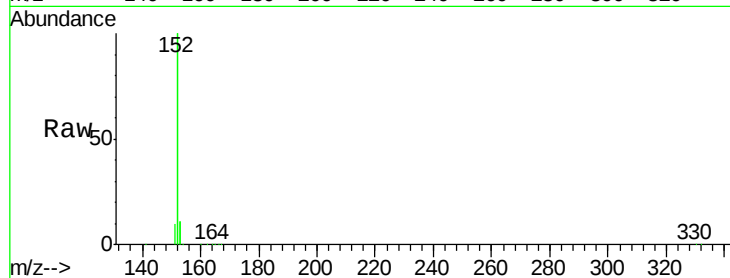
Tgt Ion:152 Resp: 114920

Ion Ratio Lower Upper

152 100

151 4.7 3.7 5.5

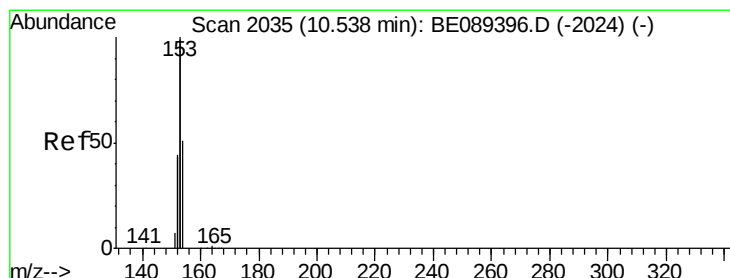
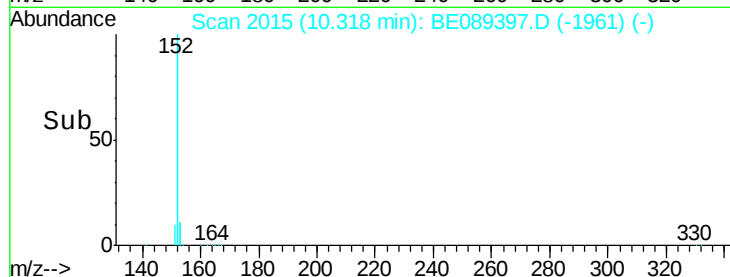
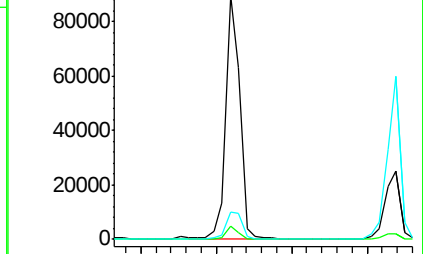
153 12.8 10.2 15.4



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



#10

Acenaphthene

Concen: 1.92 ng

RT: 10.54 min Scan# 2035

Delta R.T. 0.00 min

Lab File: BE089397.D

Acq: 15 Jan 2015 17:27

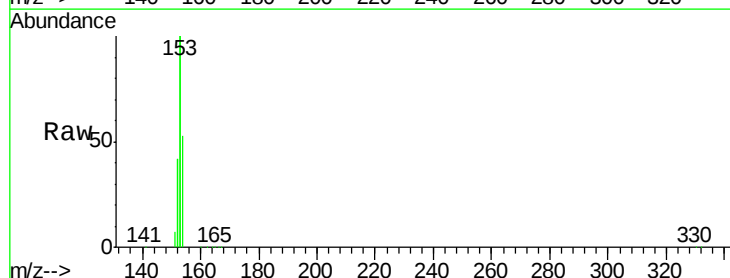
Tgt Ion:154 Resp: 17481

Ion Ratio Lower Upper

154 100

153 407.3 327.0 490.4

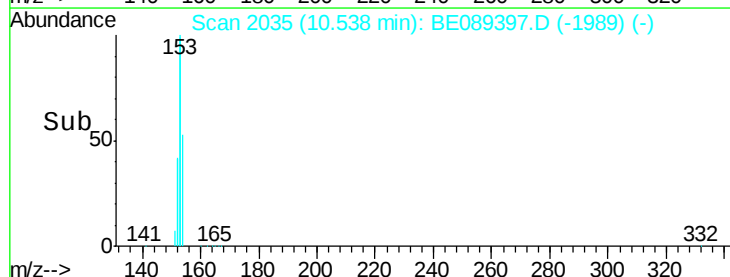
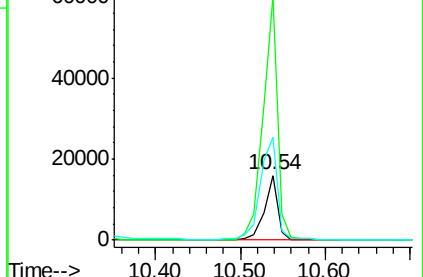
152 195.5 162.2 243.4

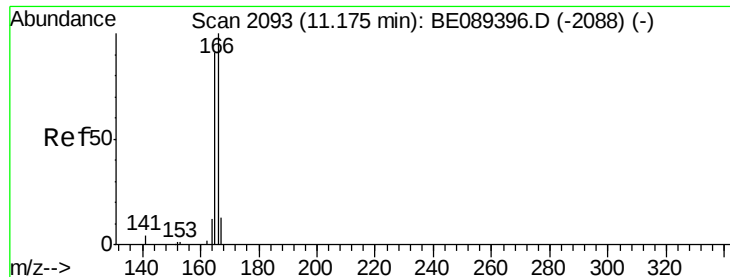


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E





#11

Fluorene

Concen: 1.98 ng

RT: 11.17 min Scan# 2093

Delta R.T. 0.00 min

Lab File: BE089397.D

Acq: 15 Jan 2015 17:27

Instrument :

BNA_M

LabSampleId :

SSTDIC0.1

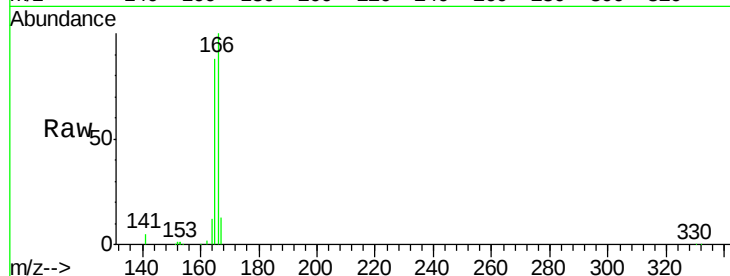
Tgt Ion:166 Resp: 18811

Ion Ratio Lower Upper

166 100

165 89.4 72.5 108.7

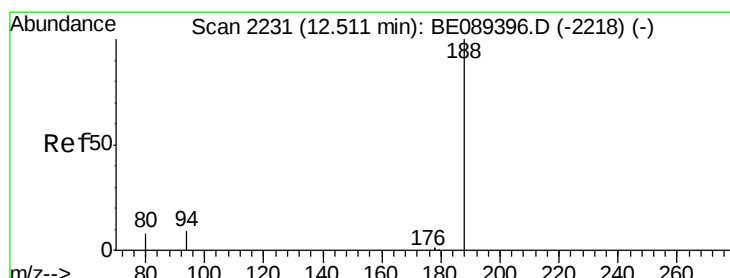
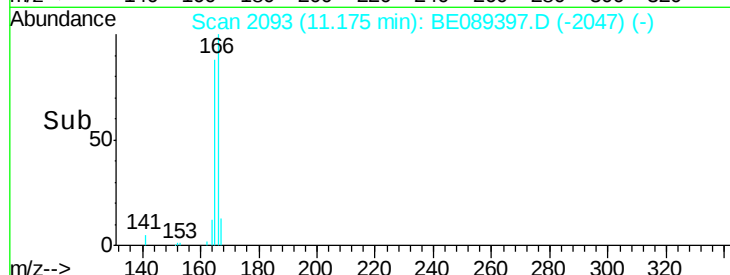
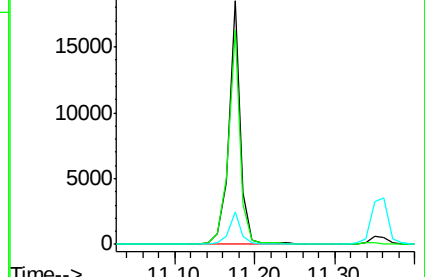
167 13.3 10.7 16.1



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



#12

Phenanthrene-d10

Concen: 5.00 ng

RT: 12.50 min Scan# 2230

Delta R.T. -0.01 min

Lab File: BE089397.D

Acq: 15 Jan 2015 17:27

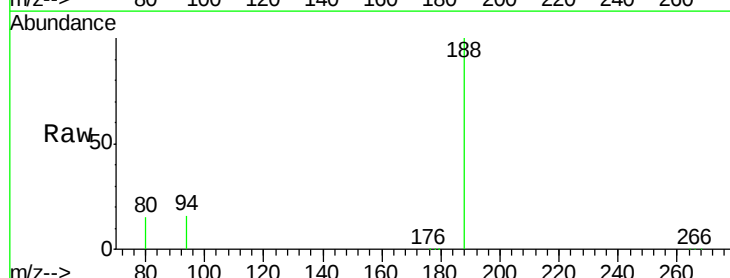
Tgt Ion:188 Resp: 53190

Ion Ratio Lower Upper

188 100

94 15.7 7.6 11.4#

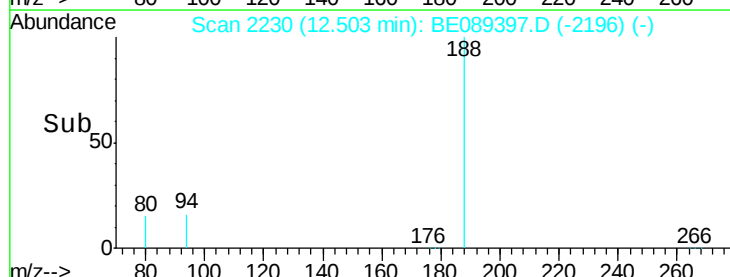
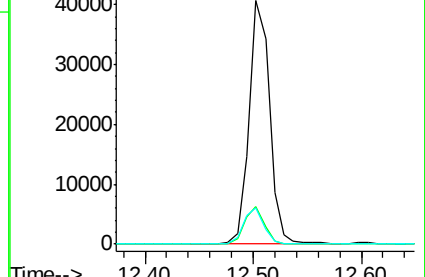
80 14.8 6.8 10.2#

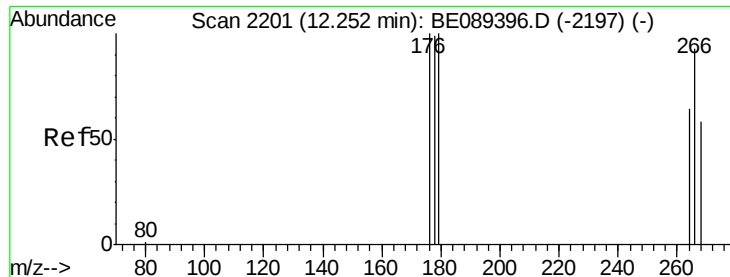


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BE0

Ion 80.00 (79.70 to 80.70): BE0

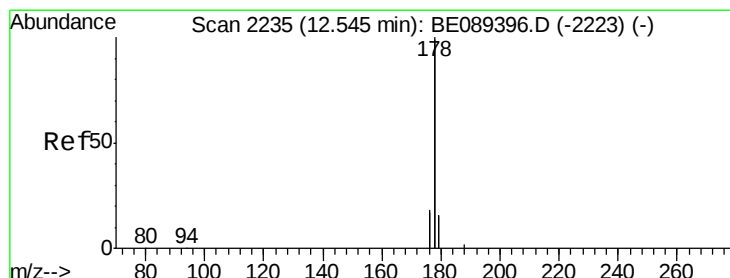
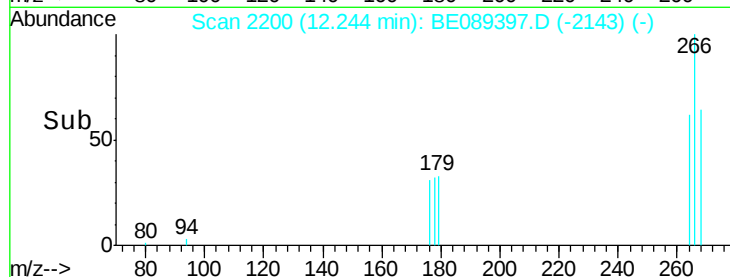
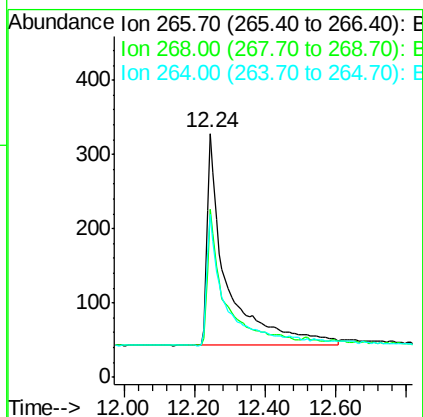
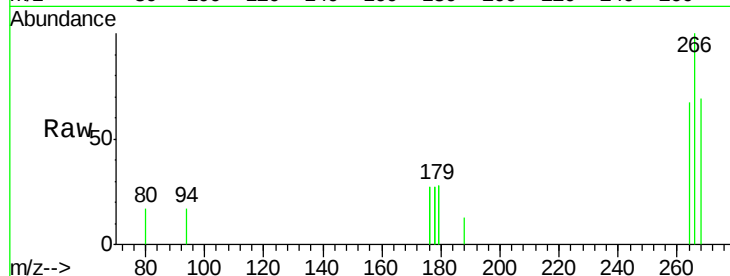




#13
 Pentachlorophenol
 Concen: 1.95 ng
 RT: 12.24 min Scan# 2200
 Delta R.T. -0.01 min
 Lab File: BE089397.D
 Acq: 15 Jan 2015 17:27

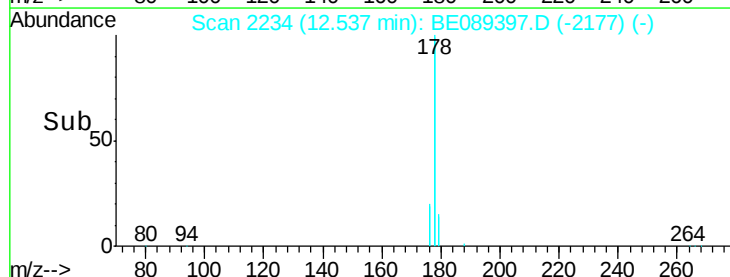
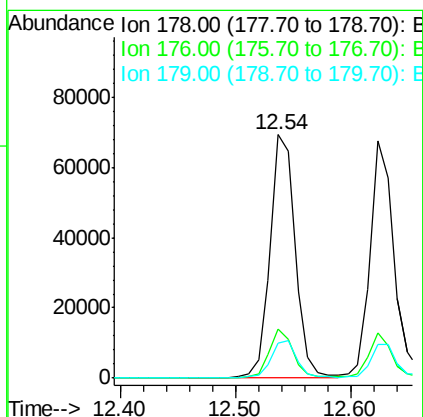
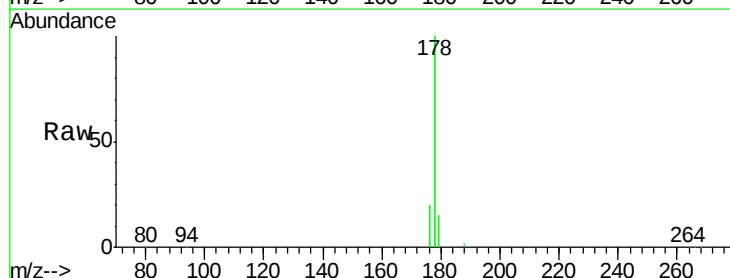
Instrument :
 BNA_M
 LabSampleId :
 SSTDICC0.1

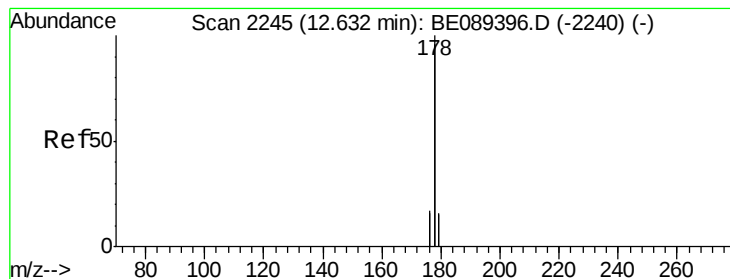
Tgt Ion: 266 Resp: 1111
 Ion Ratio Lower Upper
 266 100
 268 68.9 60.5 90.7
 264 67.1 63.6 95.4



#14
 Phenanthrene
 Concen: 1.92 ng
 RT: 12.54 min Scan# 2234
 Delta R.T. -0.01 min
 Lab File: BE089397.D
 Acq: 15 Jan 2015 17:27

Tgt Ion: 178 Resp: 103921
 Ion Ratio Lower Upper
 178 100
 176 18.7 14.9 22.3
 179 15.3 12.3 18.5





#15

Anthracene

Concen: 1.97 ng

RT: 12.62 min Scan# 2244

Delta R.T. -0.01 min

Lab File: BE089397.D

Acq: 15 Jan 2015 17:27

Instrument :

BNA_M

LabSampleId :

SSTDIC0.1

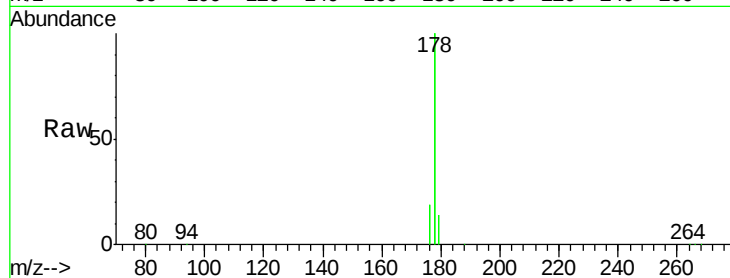
Tgt Ion:178 Resp: 99988

Ion Ratio Lower Upper

178 100

176 17.9 14.4 21.6

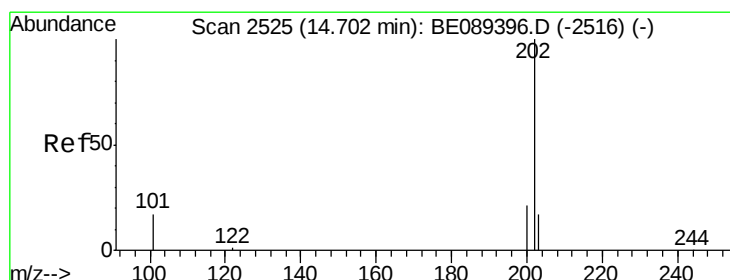
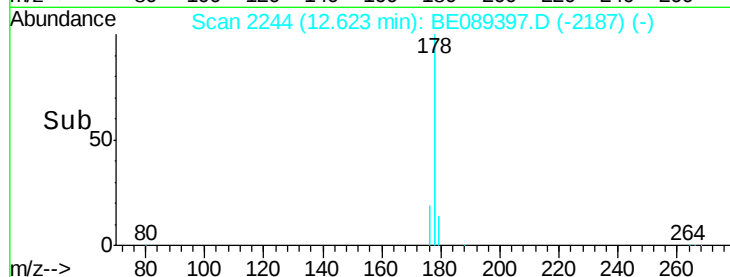
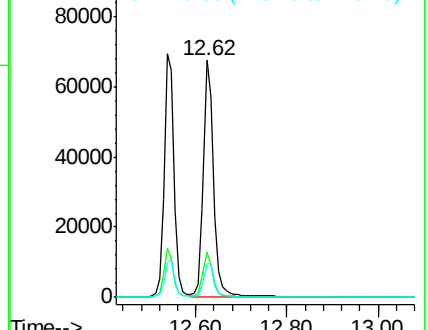
179 15.1 12.0 18.0



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



#16

Fluoranthene

Concen: 2.06 ng

RT: 14.70 min Scan# 2525

Delta R.T. 0.00 min

Lab File: BE089397.D

Acq: 15 Jan 2015 17:27

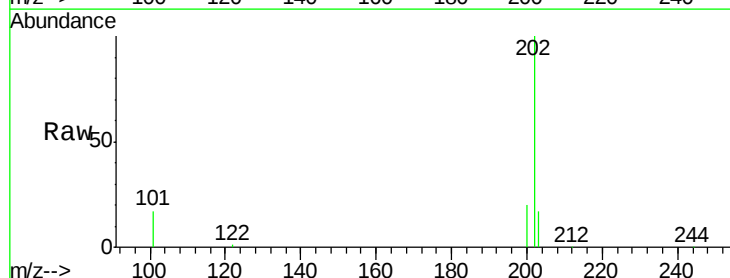
Tgt Ion:202 Resp: 21484

Ion Ratio Lower Upper

202 100

101 16.9 13.2 19.8

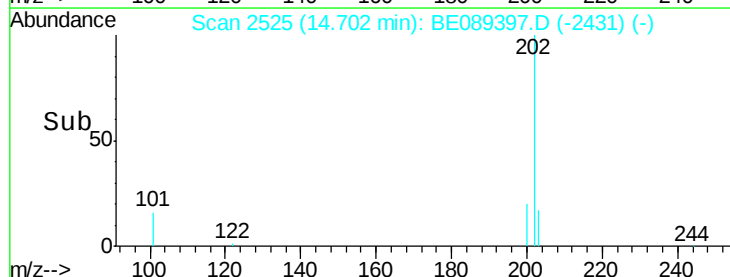
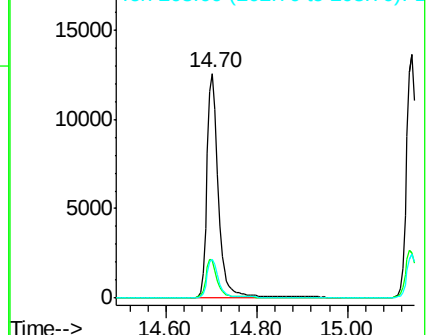
203 17.1 13.5 20.3

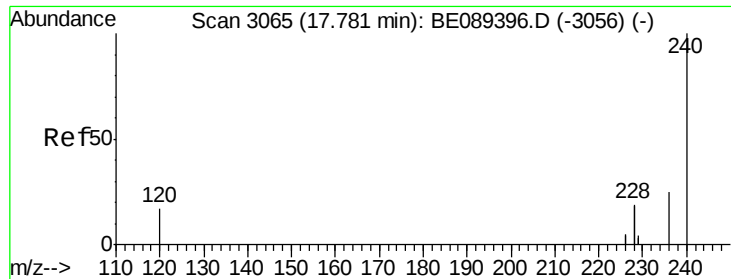


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E

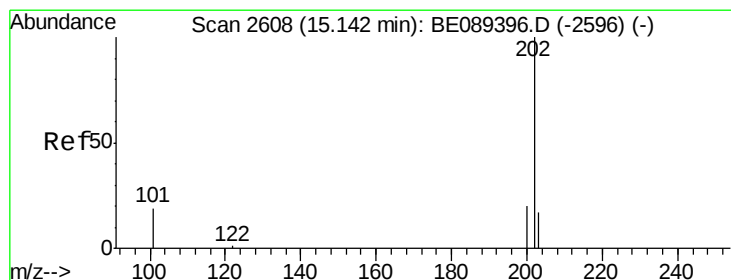
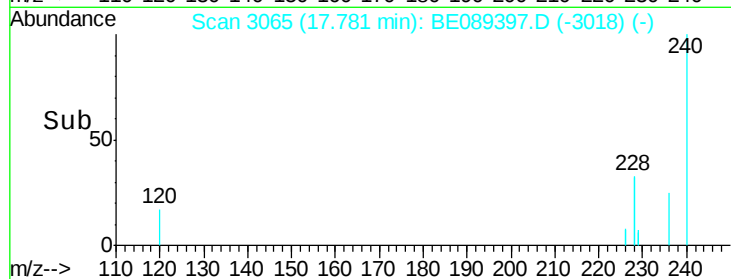
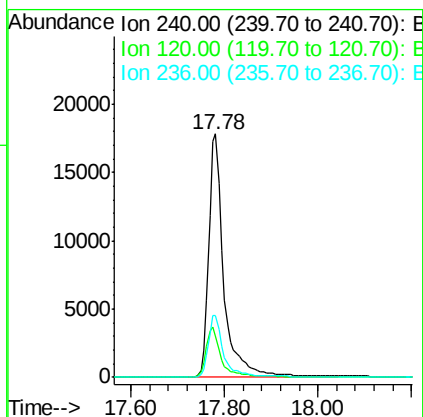
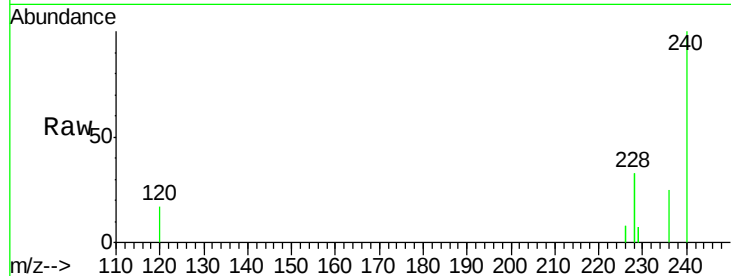




#17
Chrysene-d12
Concen: 5.00 ng
RT: 17.78 min Scan# 3065
Delta R.T. 0.00 min
Lab File: BE089397.D
Acq: 15 Jan 2015 17:27

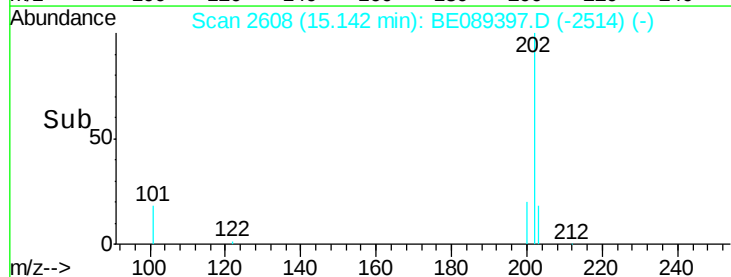
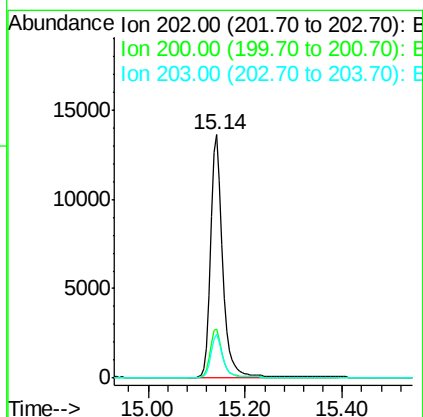
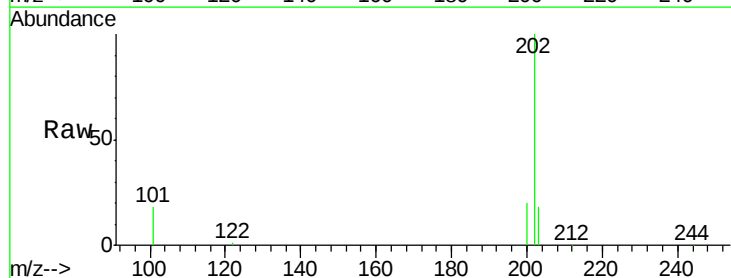
Instrument :
BNA_M
LabSampleId :
SSTDIC0.1

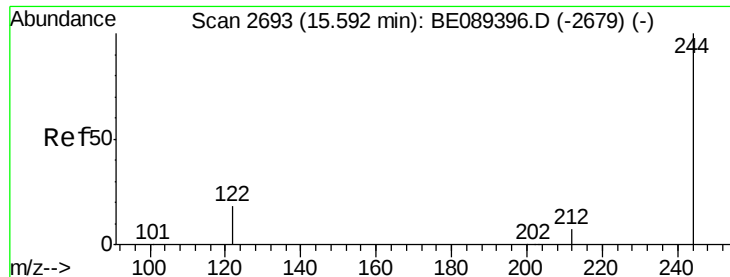
Tgt Ion:240 Resp: 39610
Ion Ratio Lower Upper
240 100
120 17.0 14.2 21.2
236 25.2 20.6 30.8



#18
Pyrene
Concen: 1.81 ng
RT: 15.14 min Scan# 2608
Delta R.T. 0.00 min
Lab File: BE089397.D
Acq: 15 Jan 2015 17:27

Tgt Ion:202 Resp: 23325
Ion Ratio Lower Upper
202 100
200 20.3 16.2 24.2
203 17.5 13.7 20.5





#19

Terphenyl-d14

Concen: 1.75 ng

RT: 15.59 min Scan# 2692

Delta R.T. -0.00 min

Lab File: BE089397.D

Acq: 15 Jan 2015 17:27

Instrument :

BNA_M

LabSampleId :

SSTDIC0.1

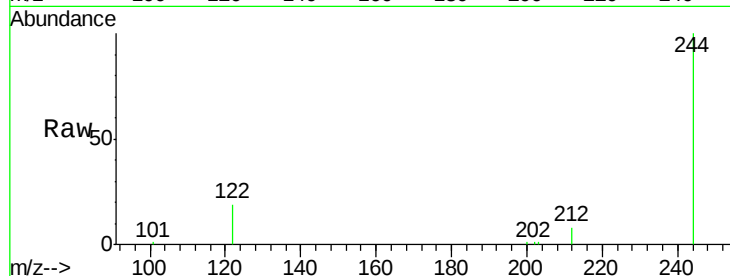
Tgt Ion:244 Resp: 11688

Ion Ratio Lower Upper

244 100

212 7.5 6.7 10.1

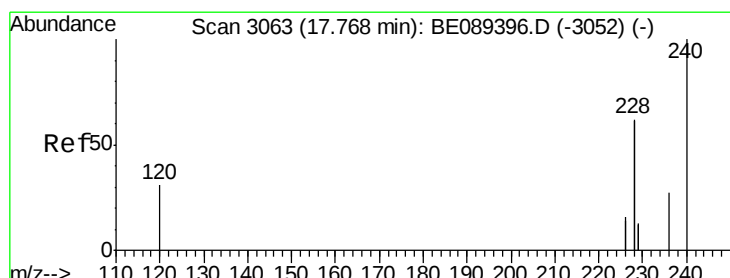
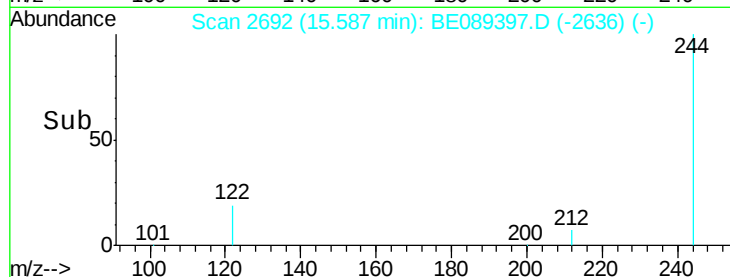
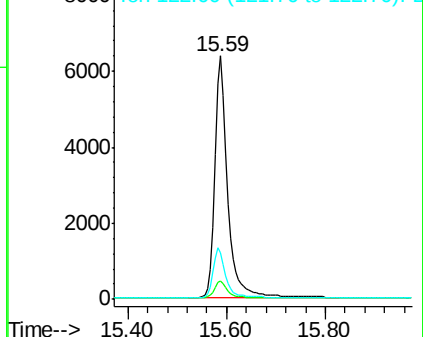
122 19.2 15.7 23.5



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



#20

Benzo(a)anthracene

Concen: 1.62 ng

RT: 17.76 min Scan# 3062

Delta R.T. -0.01 min

Lab File: BE089397.D

Acq: 15 Jan 2015 17:27

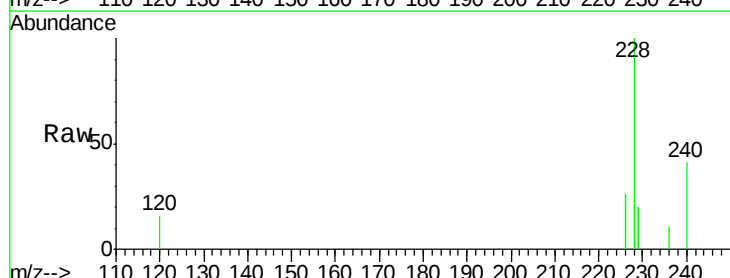
Tgt Ion:228 Resp: 56919

Ion Ratio Lower Upper

228 100

226 26.4 20.6 31.0

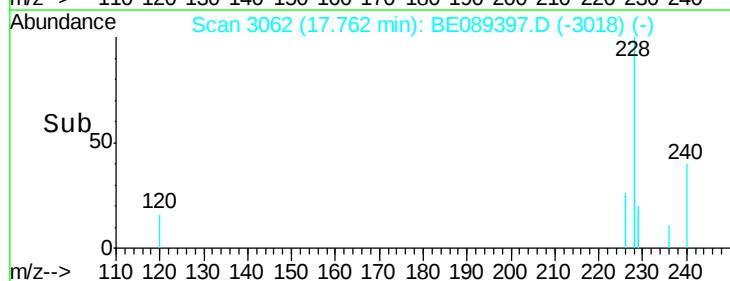
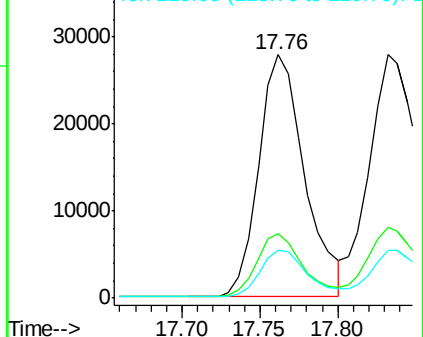
229 19.6 17.1 25.7

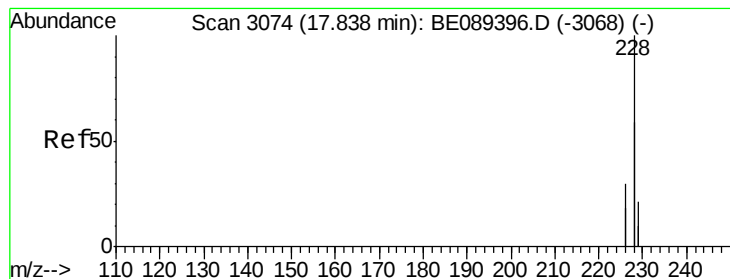


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#21

Chrysene

Concen: 1.91 ng

RT: 17.83 min Scan# 3073

Delta R.T. -0.01 min

Lab File: BE089397.D

Acq: 15 Jan 2015 17:27

Instrument :

BNA_M

LabSampleId :

SSTDICC0.1

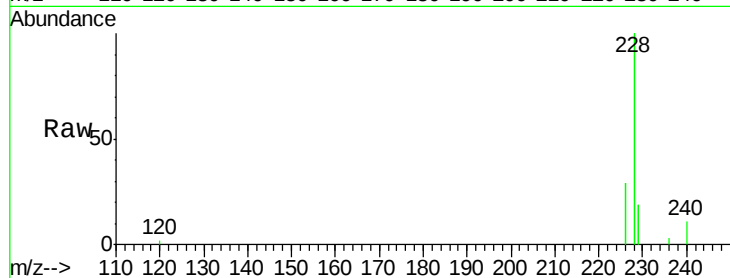
Tgt Ion:228 Resp: 76820

Ion Ratio Lower Upper

228 100

226 29.4 24.2 36.4

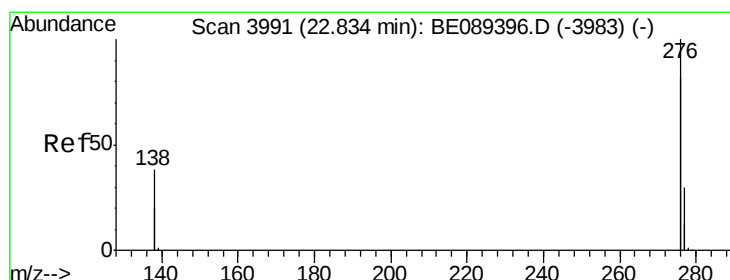
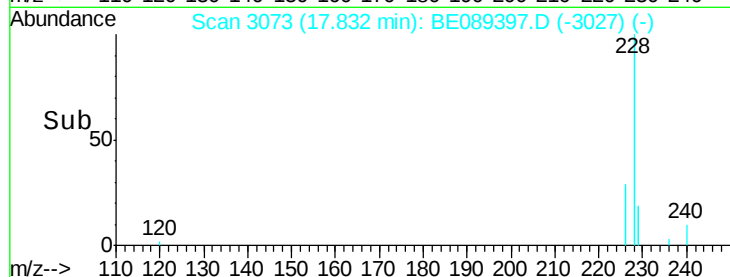
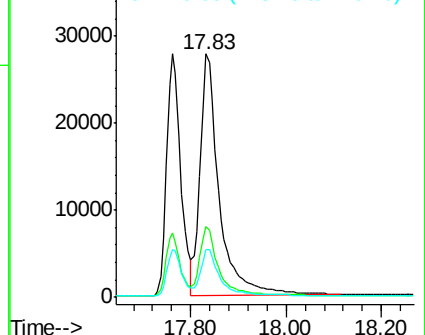
229 19.4 16.5 24.7



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



#22

Indeno(1,2,3-cd)pyrene

Concen: 0.74 ng

RT: 22.83 min Scan# 3990

Delta R.T. -0.01 min

Lab File: BE089397.D

Acq: 15 Jan 2015 17:27

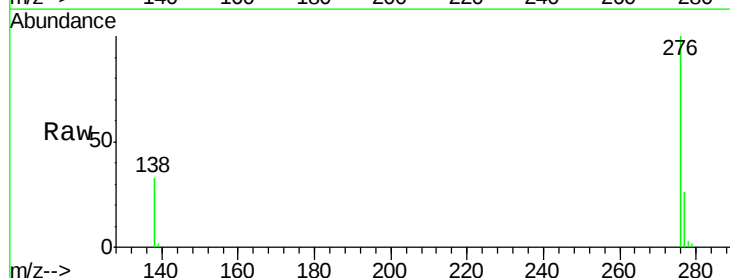
Tgt Ion:276 Resp: 17745

Ion Ratio Lower Upper

276 100

138 32.0 15.0 22.6#

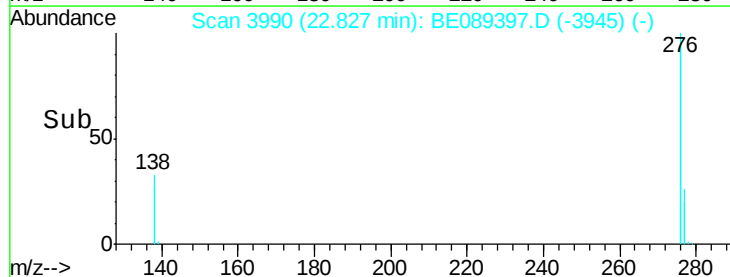
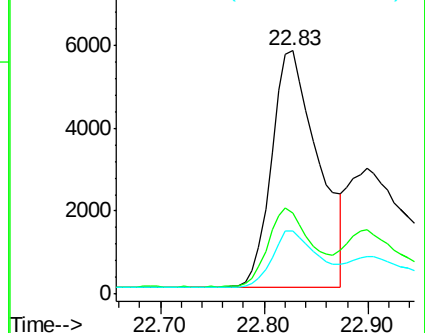
277 22.4 11.4 17.2#

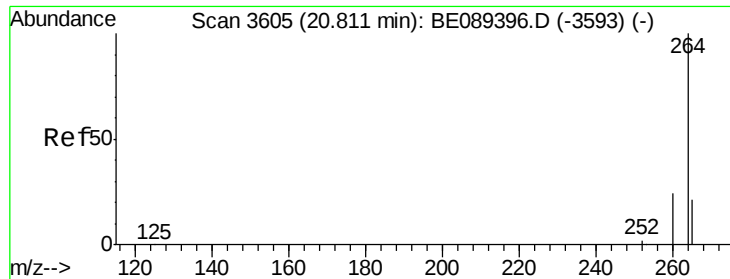


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

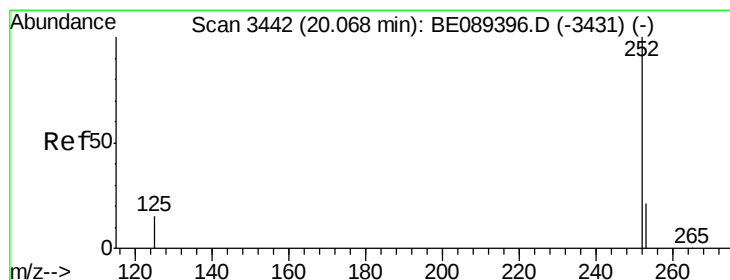
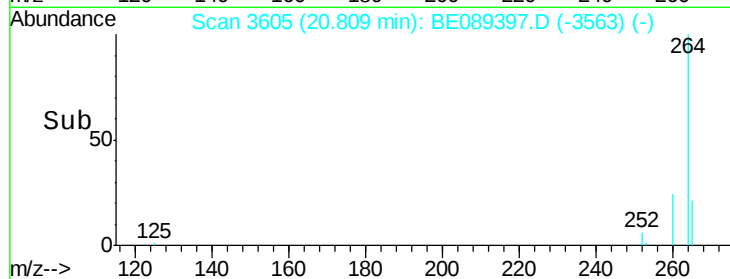
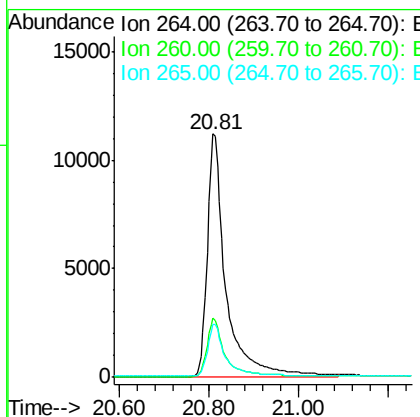
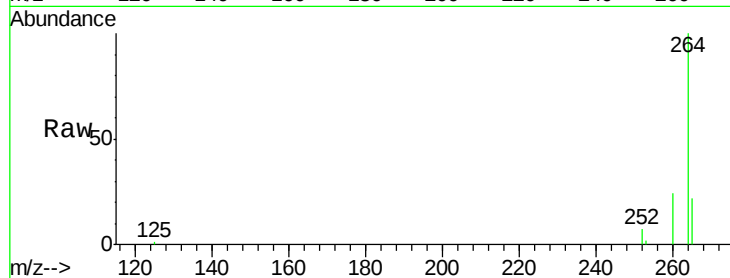




#23
 Perylene-d12
 Concen: 5.00 ng
 RT: 20.81 min Scan# 3605
 Delta R.T. -0.00 min
 Lab File: BE089397.D
 Acq: 15 Jan 2015 17:27

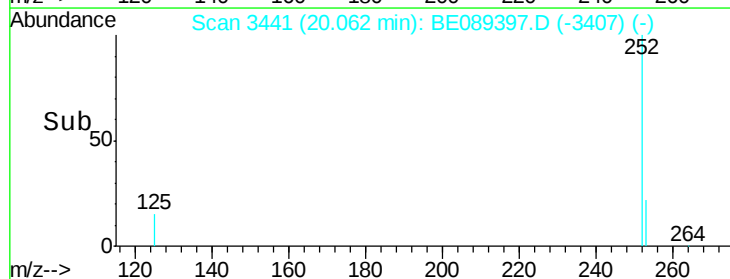
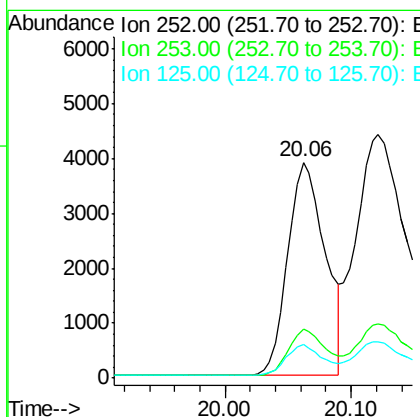
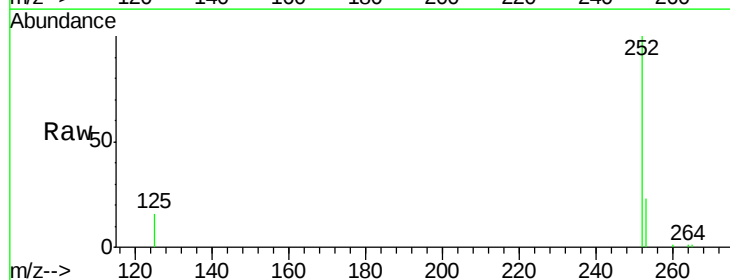
Instrument :
 BNA_M
 LabSampleId :
 SSTDICC0.1

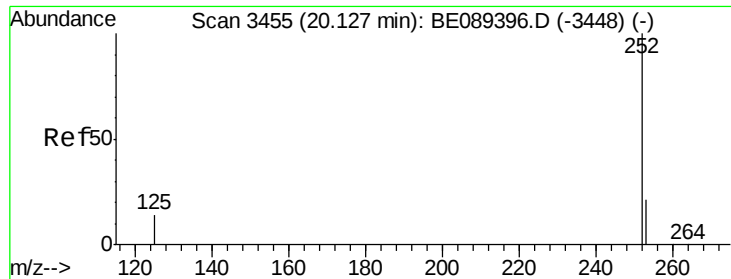
Tgt Ion: 264 Resp: 31887
 Ion Ratio Lower Upper
 264 100
 260 24.2 19.2 28.8
 265 21.5 17.3 25.9



#24
 Benzo(b)fluoranthene
 Concen: 1.44 ng
 RT: 20.06 min Scan# 3441
 Delta R.T. -0.01 min
 Lab File: BE089397.D
 Acq: 15 Jan 2015 17:27

Tgt Ion: 252 Resp: 8049
 Ion Ratio Lower Upper
 252 100
 253 22.6 19.1 28.7
 125 15.6 14.5 21.7





#25

Benzo(k)fluoranthene

Concen: 1.86 ng

RT: 20.12 min Scan# 3454

Delta R.T. -0.01 min

Lab File: BE089397.D

Acq: 15 Jan 2015 17:27

Instrument :

BNA_M

LabSampleId :

SSTDIC0.1

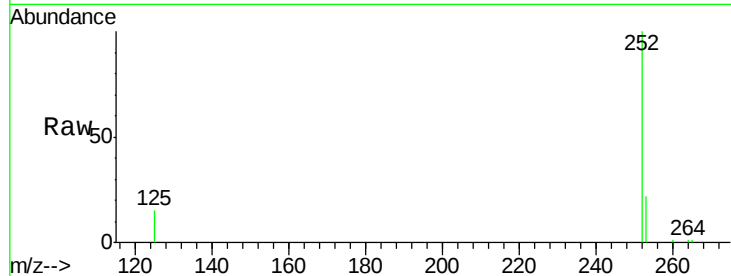
Tgt Ion:252 Resp: 16135

Ion Ratio Lower Upper

252 100

253 22.3 18.7 28.1

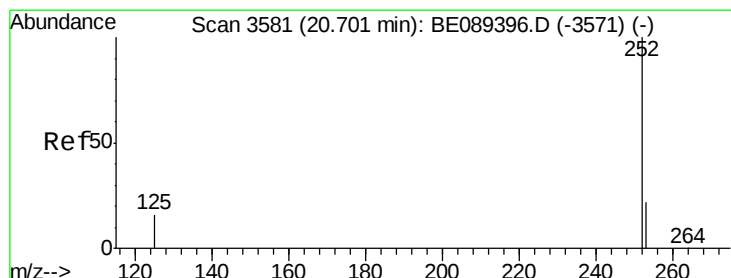
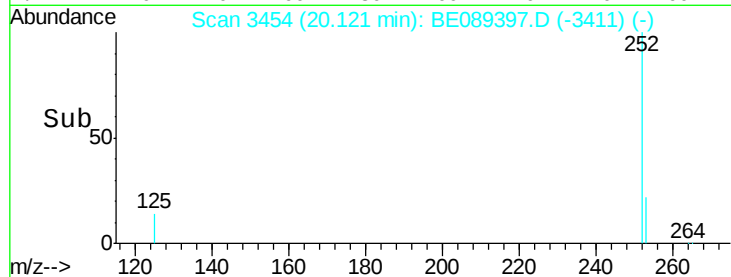
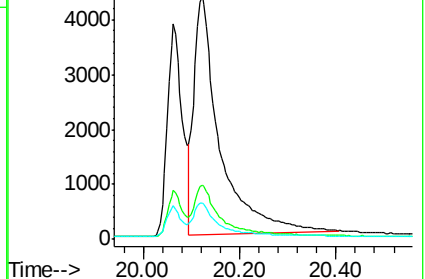
125 15.0 13.1 19.7



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



#26

Benzo(a)pyrene

Concen: 1.55 ng

RT: 20.70 min Scan# 3580

Delta R.T. -0.01 min

Lab File: BE089397.D

Acq: 15 Jan 2015 17:27

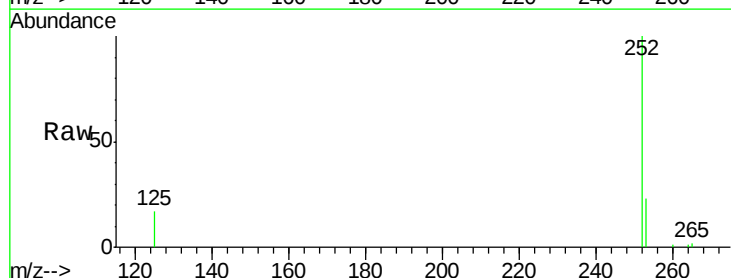
Tgt Ion:252 Resp: 8449

Ion Ratio Lower Upper

252 100

253 22.7 20.0 30.0

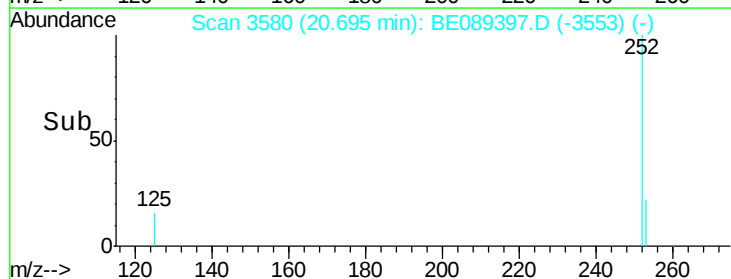
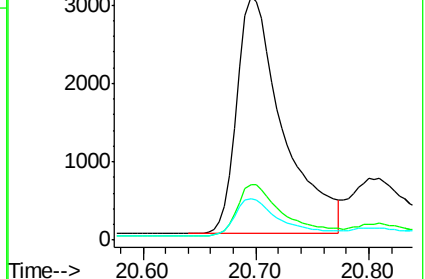
125 17.1 15.4 23.2

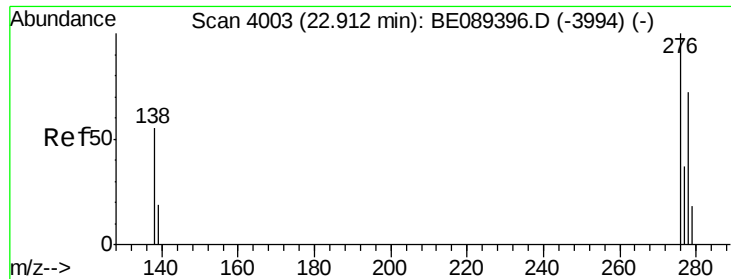


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

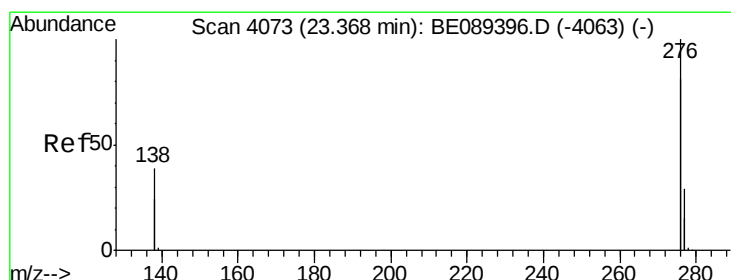
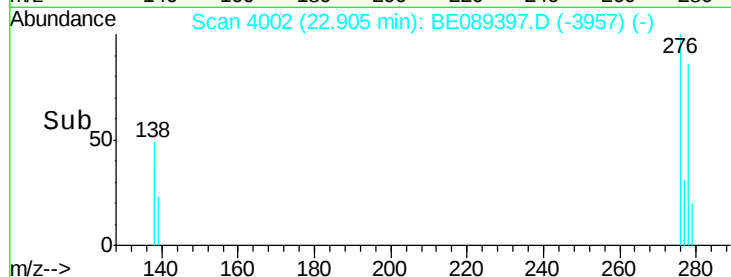
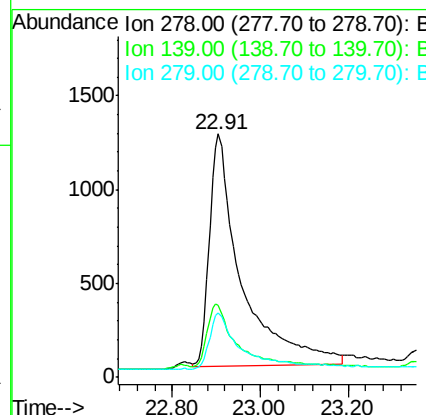
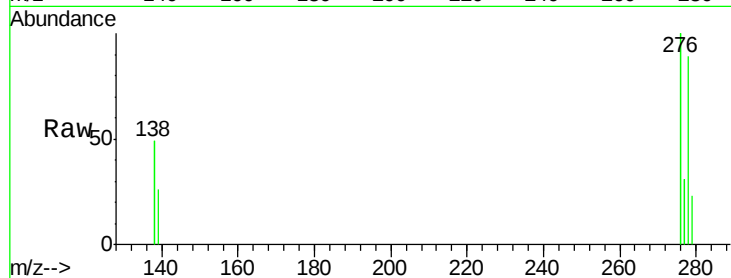




#27
Dibenzo(a,h)anthracene
Concen: 1.44 ng
RT: 22.91 min Scan# 4002
Delta R.T. -0.01 min
Lab File: BE089397.D
Acq: 15 Jan 2015 17:27

Instrument :
BNA_M
LabSampleId :
SSTDIC0.1

Tgt Ion: 278 Resp: 6235
Ion Ratio Lower Upper
278 100
139 29.7 26.8 40.2
279 26.4 25.4 38.0



#28
Benzo(g,h,i)perylene
Concen: 1.57 ng
RT: 23.36 min Scan# 4072
Delta R.T. -0.01 min
Lab File: BE089397.D
Acq: 15 Jan 2015 17:27

Tgt Ion: 276 Resp: 39539
Ion Ratio Lower Upper
276 100
277 25.2 22.9 34.3
138 34.8 31.2 46.8

