

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE011515\
 Data File : BE089394.D
 Acq On : 15 Jan 2015 15:45
 Operator : TP/IZ
 Sample : SSTDICC0.5
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_M
 LabSampleId :
 SSTDICC0.8

Quant Time: Jan 16 05:28:49 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

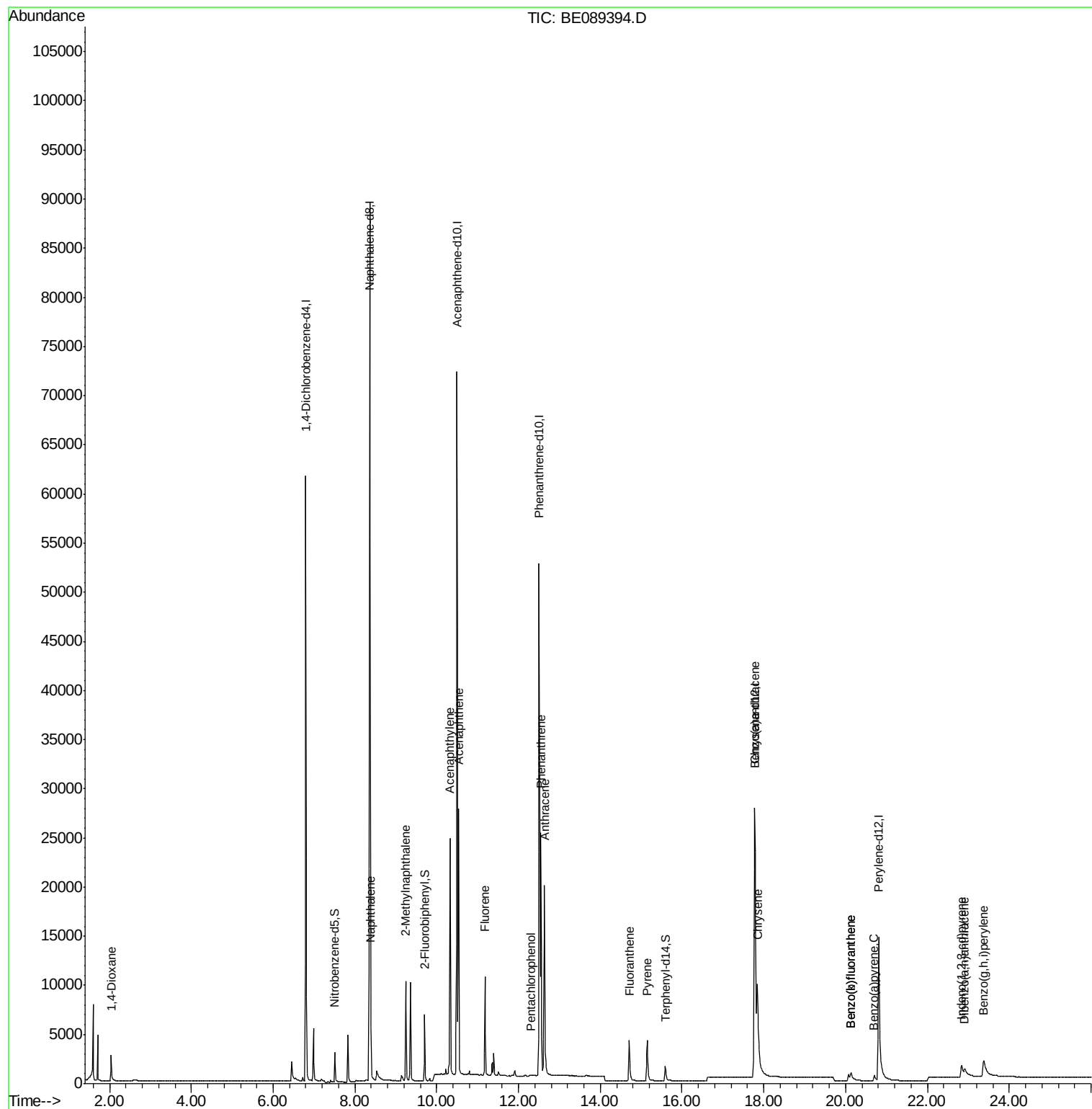
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.80	152	21098	5.00	ng	0.00
3) Naphthalene-d8	8.36	136	79510	5.00	ng	0.00
7) Acenaphthene-d10	10.49	164	35975	5.00	ng	0.00
12) Phenanthrene-d10	12.50	188	54136	5.00	ng	0.00
17) Chrysene-d12	17.78	240	36572	5.00	ng	0.00
23) Perylene-d12	20.81	264	27547	5.00	ng	0.00
System Monitoring Compounds						
4) Nitrobenzene-d5	7.51	82	1920	0.37	ng	0.00
8) 2-Fluorobiphenyl	9.71	172	4871	0.50	ng	0.00
19) Terphenyl-d14	15.59	244	2665	0.43	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.04	88	1537	0.51	ng	99
5) Naphthalene	8.39	128	9043	0.51	ng	99
6) 2-Methylnaphthalene	9.24	142	5322	0.47	ng	99
9) Acenaphthylene	10.32	152	29146	0.48	ng	99
10) Acenaphthene	10.54	154	4710	0.51	ng	99
11) Fluorene	11.18	166	4908	0.50	ng	99
13) Pentachlorophenol	12.30	266	77	0.13	ng	87
14) Phenanthrene	12.55	178	28132	0.51	ng	99
15) Anthracene	12.63	178	24265	0.47	ng	100
16) Fluoranthene	14.71	202	5018	0.47	ng	100
18) Pyrene	15.15	202	5266	0.44	ng	99
20) Benzo(a)anthracene	17.77	228	12271	0.38	ng	98
21) Chrysene	17.84	228	18726	0.50	ng	98
22) Indeno(1,2,3-cd)pyrene	22.84	276	2560	0.12	ng	# 71
24) Benzo(b)fluoranthene	20.13	252	2583	0.54	ng	95
25) Benzo(k)fluoranthene	20.13	252	2583	0.34	ng	# 93
26) Benzo(a)pyrene	20.70	252	1186	0.25	ng	# 89
27) Dibenzo(a,h)anthracene	22.92	278	845	0.23	ng	# 83
28) Benzo(g,h,i)perylene	23.38	276	6387	0.29	ng	92

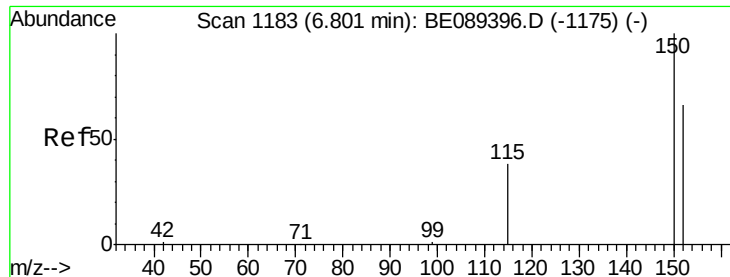
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: BE089394.D

Acq: 15 Jan 2015 15:45

Instrument :

BNA_M

LabSampleId :

SSTDIC0.8

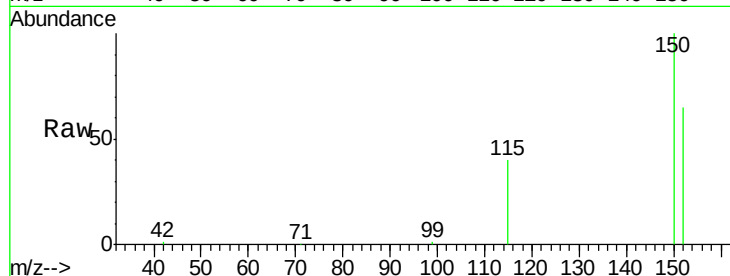
Tgt Ion: 152 Resp: 21098

Ion Ratio Lower Upper

152 100

150 153.2 121.9 182.9

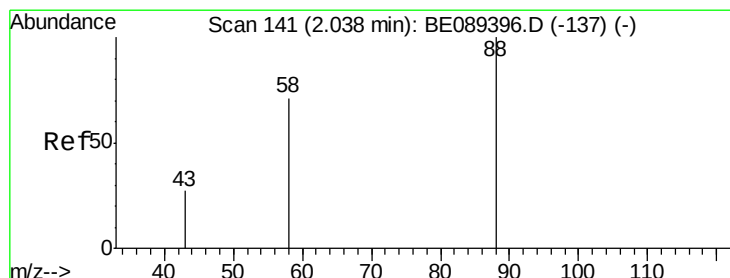
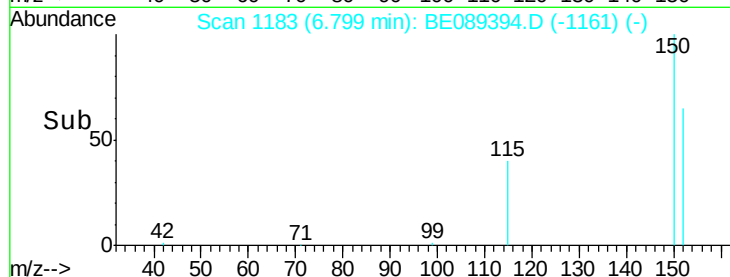
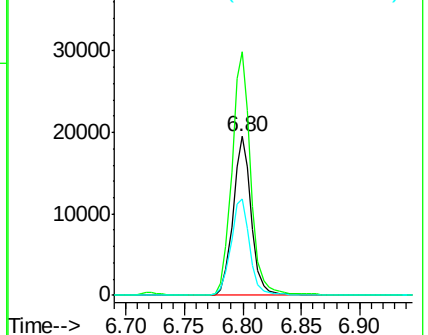
115 60.7 47.0 70.6



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: 0.51 ng

RT: 2.04 min Scan# 141

Delta R.T. -0.00 min

Lab File: BE089394.D

Acq: 15 Jan 2015 15:45

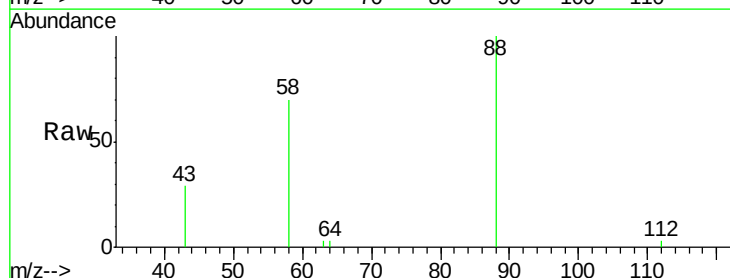
Tgt Ion: 88 Resp: 1537

Ion Ratio Lower Upper

88 100

58 81.2 64.6 96.8

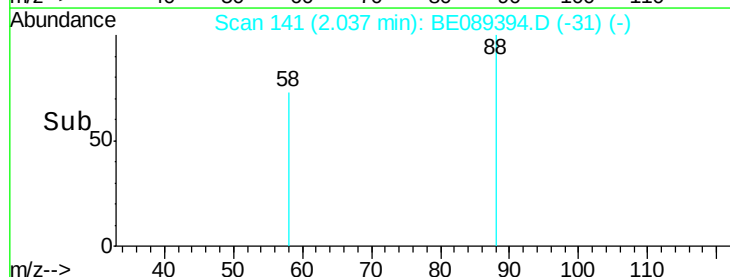
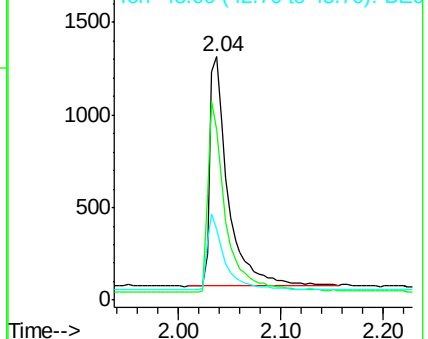
43 31.3 25.7 38.5

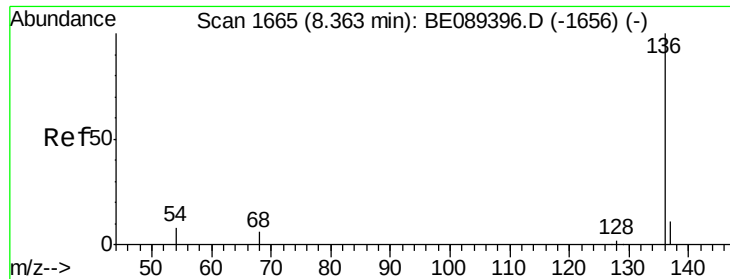


Abundance Ion 88.00 (87.70 to 88.70): BE0

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# 1666

Delta R.T. 0.00 min

Lab File: BE089394.D

Acq: 15 Jan 2015 15:45

Instrument :

BNA_M

LabSampleId :

SSTDIC0.8

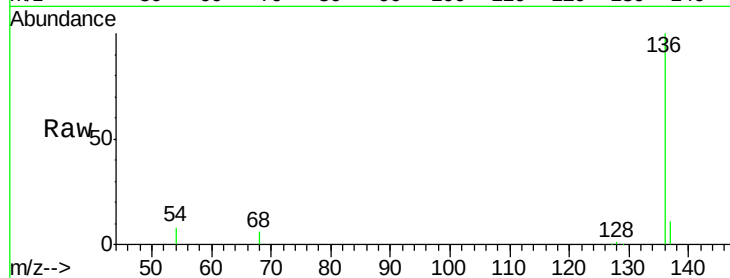
Tgt Ion: 136 Resp: 79510

Ion Ratio Lower Upper

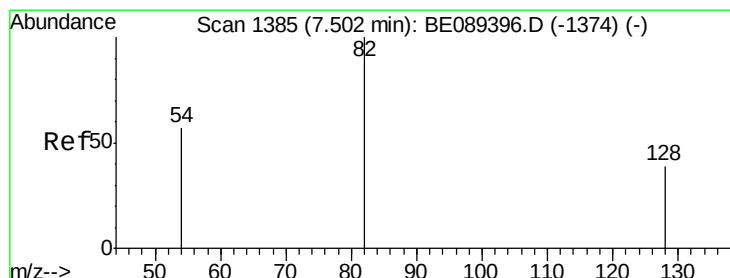
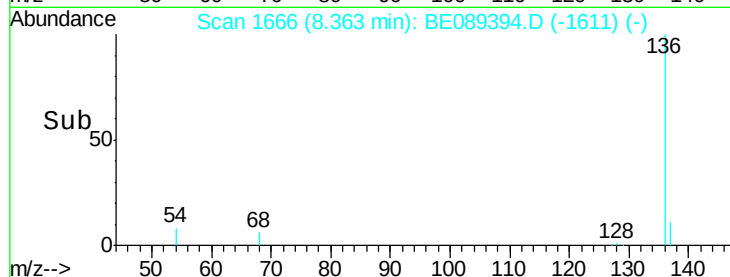
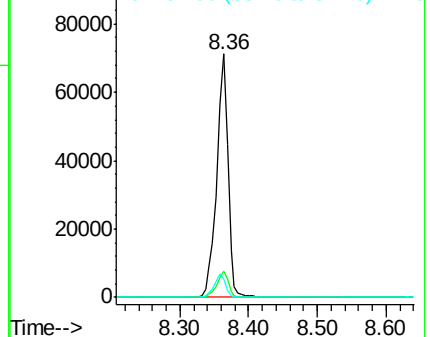
136 100

137 10.8 8.7 13.1

54 7.6 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): E



#4

Nitrobenzene-d5

Concen: 0.37 ng

RT: 7.51 min Scan# 1388

Delta R.T. 0.01 min

Lab File: BE089394.D

Acq: 15 Jan 2015 15:45

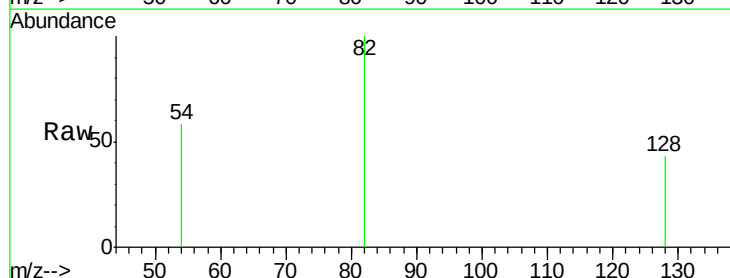
Tgt Ion: 82 Resp: 1920

Ion Ratio Lower Upper

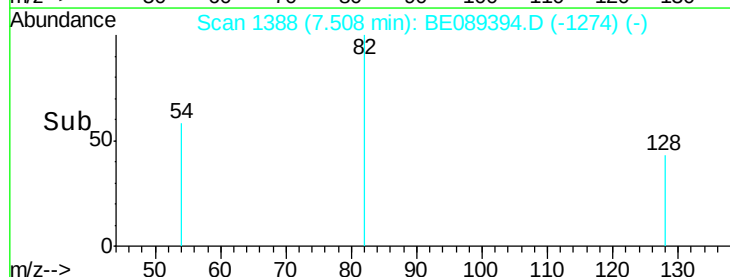
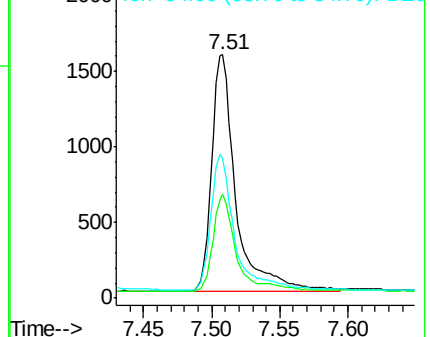
82 100

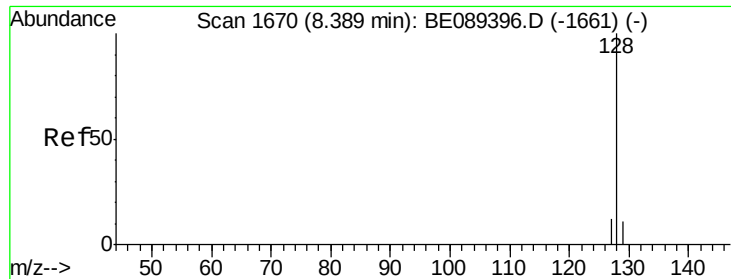
128 42.8 31.5 47.3

54 57.5 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: 0.51 ng

RT: 8.39 min Scan# 1671

Delta R.T. 0.00 min

Lab File: BE089394.D

Acq: 15 Jan 2015 15:45

Instrument :

BNA_M

LabSampleId :

SSTDIC0.8

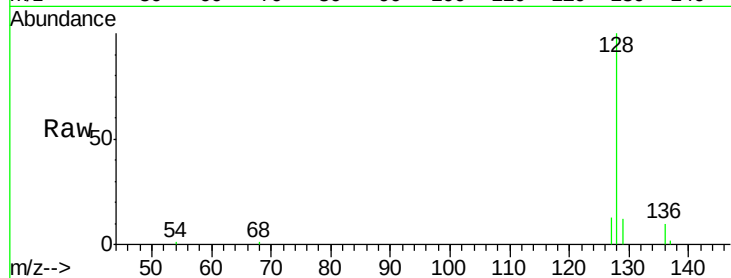
Tgt Ion:128 Resp: 9043

Ion Ratio Lower Upper

128 100

129 11.8 9.0 13.6

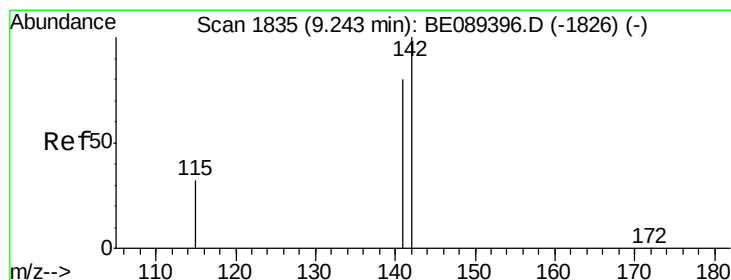
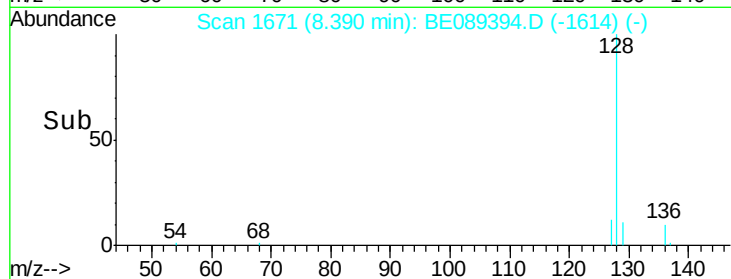
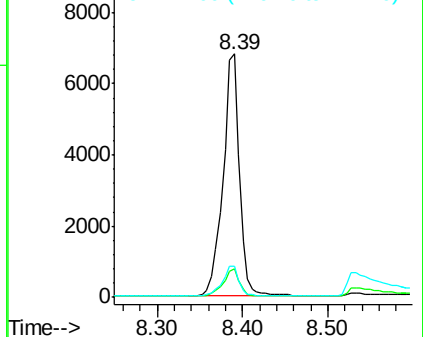
127 12.5 9.6 14.4



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



#6

2-Methylnaphthalene

Concen: 0.47 ng

RT: 9.24 min Scan# 1836

Delta R.T. 0.00 min

Lab File: BE089394.D

Acq: 15 Jan 2015 15:45

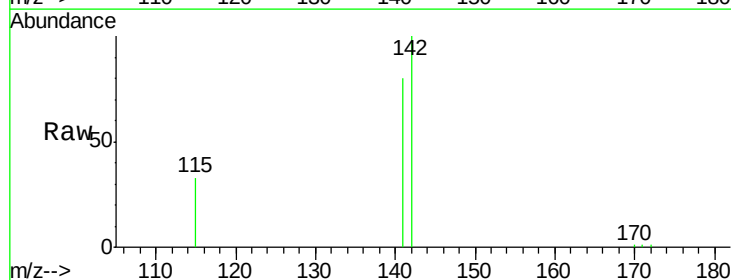
Tgt Ion:142 Resp: 5322

Ion Ratio Lower Upper

142 100

141 80.0 63.7 95.5

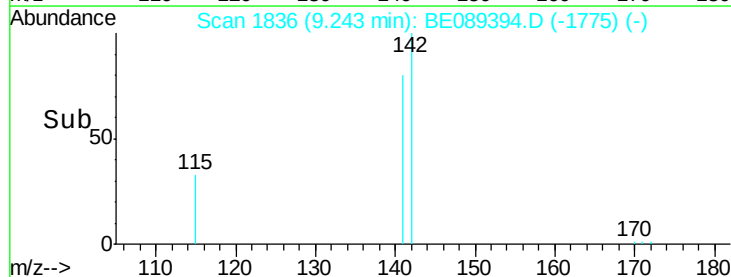
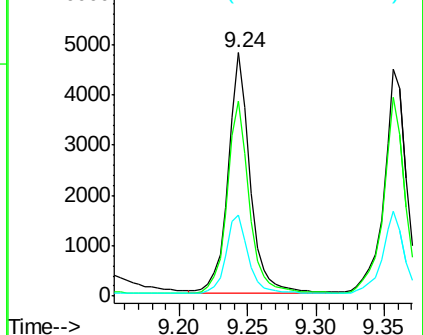
115 33.3 25.4 38.0

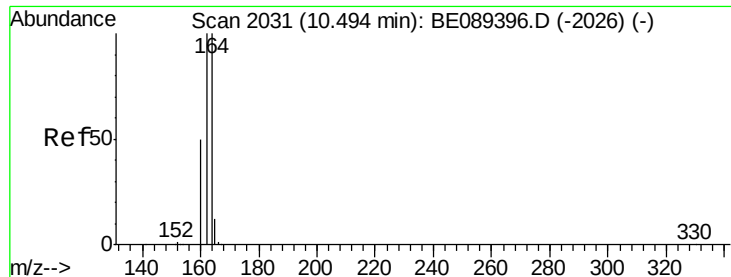


Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E





#7

Acenaphthene-d10

Concen: 5.00 ng

RT: 10.49 min Scan# 2032

Delta R.T. 0.00 min

Lab File: BE089394.D

Acq: 15 Jan 2015 15:45

Instrument :

BNA_M

LabSampleId :

SSTDICC0.8

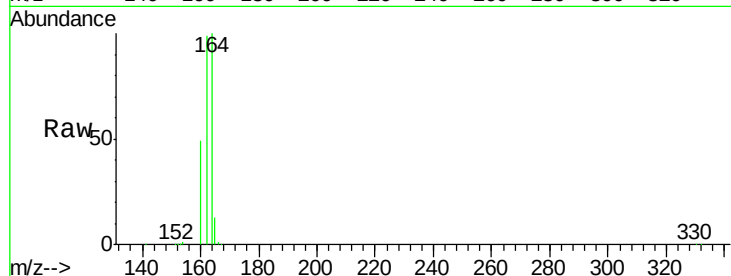
Tgt Ion:164 Resp: 35975

Ion Ratio Lower Upper

164 100

162 99.2 80.2 120.4

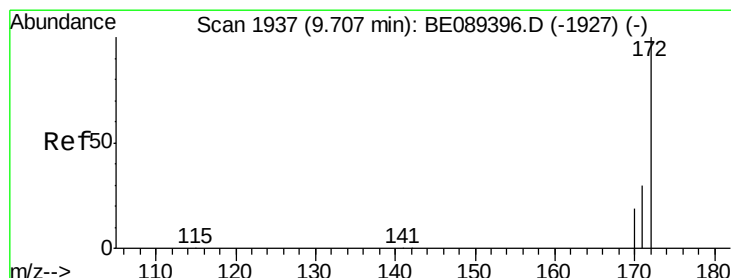
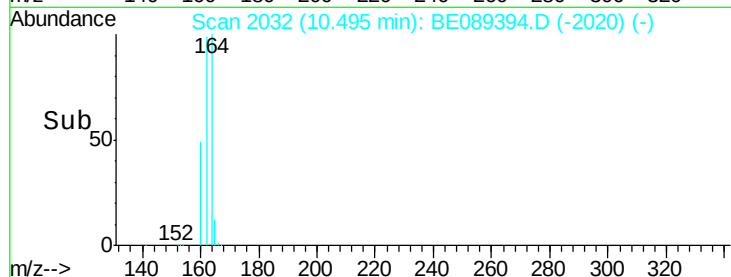
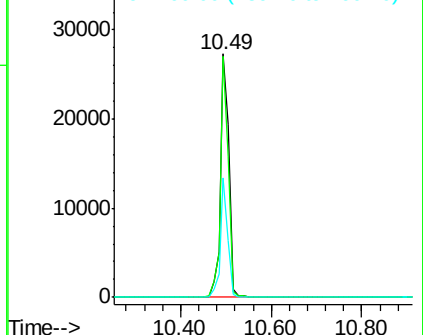
160 49.0 40.1 60.1



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: 0.50 ng

RT: 9.71 min Scan# 1938

Delta R.T. 0.00 min

Lab File: BE089394.D

Acq: 15 Jan 2015 15:45

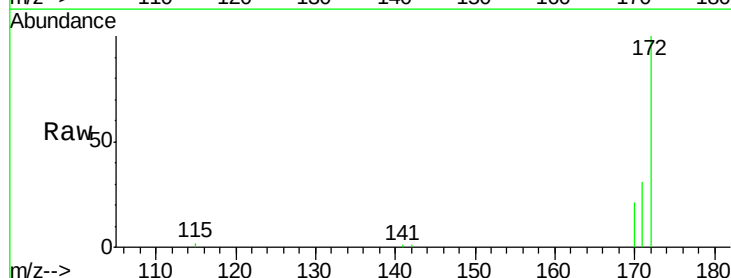
Tgt Ion:172 Resp: 4871

Ion Ratio Lower Upper

172 100

171 30.8 24.4 36.6

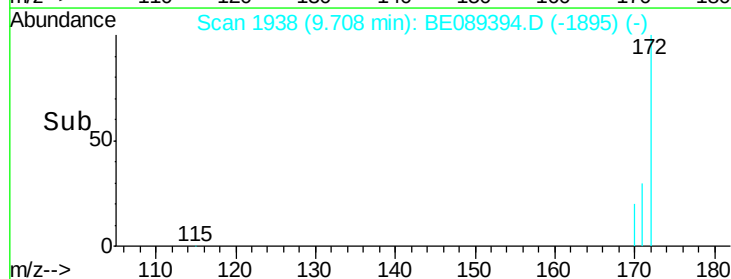
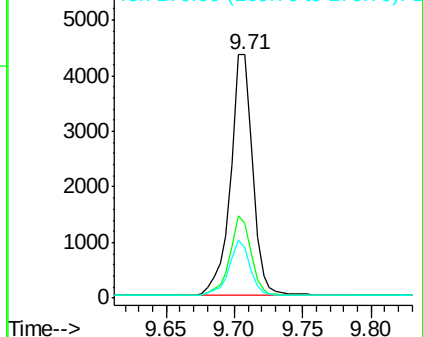
170 20.7 15.8 23.6

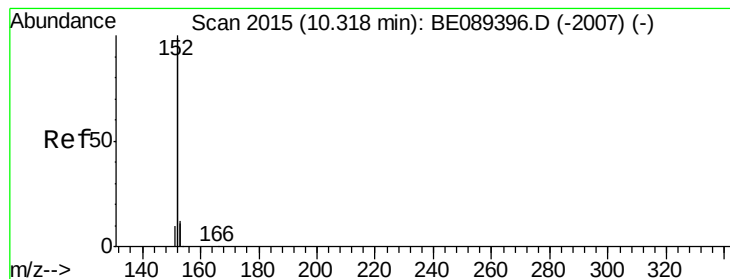


Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E





#9

Acenaphthylene

Concen: 0.48 ng

RT: 10.32 min Scan# 2016

Delta R.T. 0.00 min

Lab File: BE089394.D

Acq: 15 Jan 2015 15:45

Instrument :

BNA_M

LabSampleId :

SSTDICC0.8

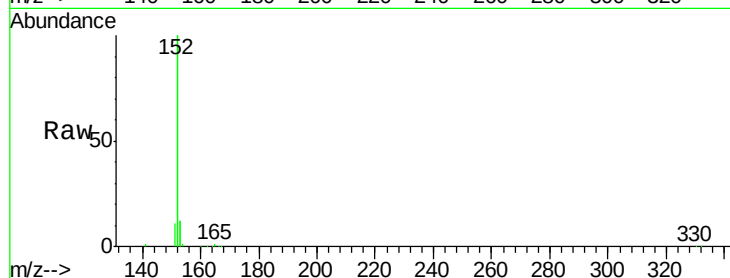
Tgt Ion:152 Resp: 29146

Ion Ratio Lower Upper

152 100

151 4.6 3.7 5.5

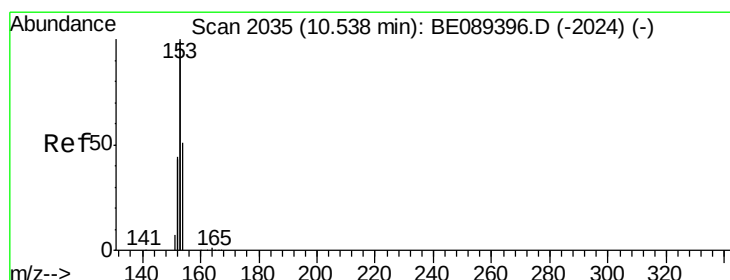
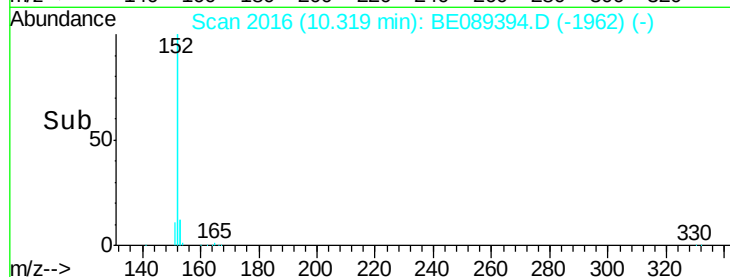
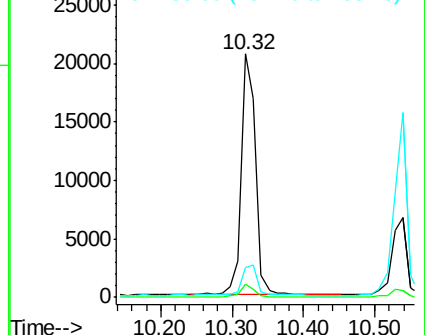
153 13.1 10.2 15.4



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: 0.51 ng

RT: 10.54 min Scan# 2036

Delta R.T. 0.00 min

Lab File: BE089394.D

Acq: 15 Jan 2015 15:45

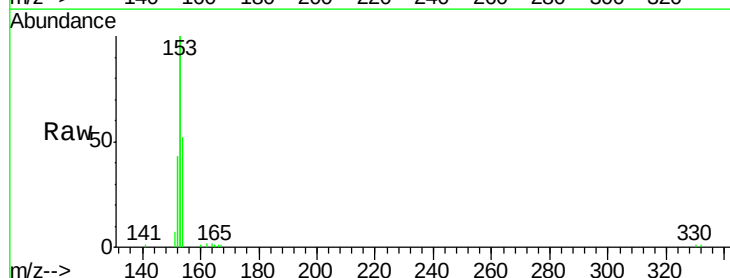
Tgt Ion:154 Resp: 4710

Ion Ratio Lower Upper

154 100

153 408.0 327.0 490.4

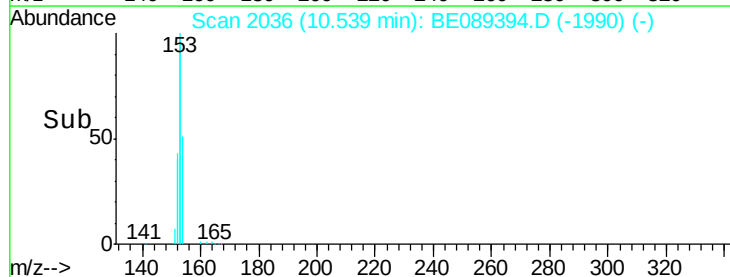
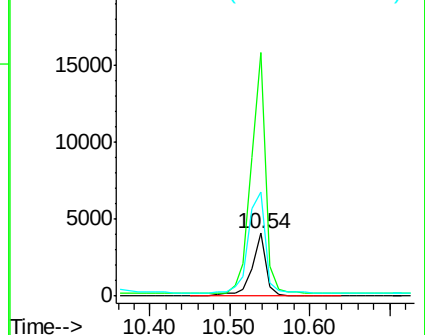
152 207.7 162.2 243.4

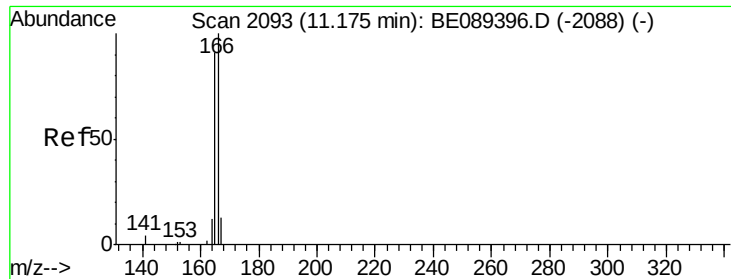


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E





#11

Fluorene

Concen: 0.50 ng

RT: 11.18 min Scan# 2094

Delta R.T. 0.00 min

Lab File: BE089394.D

Acq: 15 Jan 2015 15:45

Instrument :

BNA_M

LabSampleId :

SSTDIC0.8

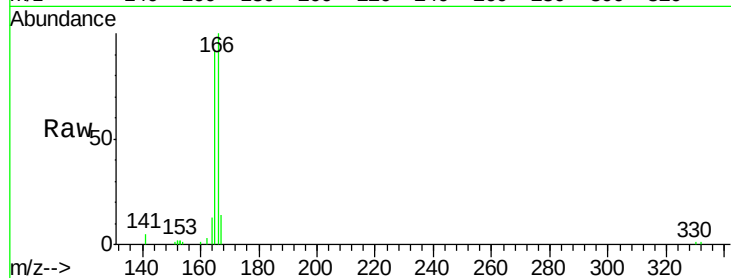
Tgt Ion:166 Resp: 4908

Ion Ratio Lower Upper

166 100

165 91.3 72.5 108.7

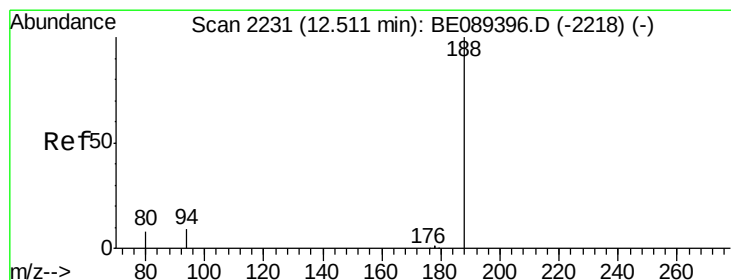
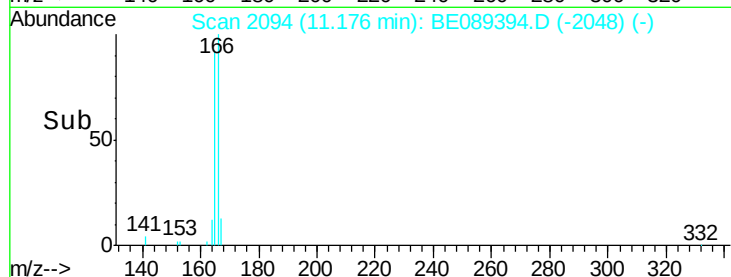
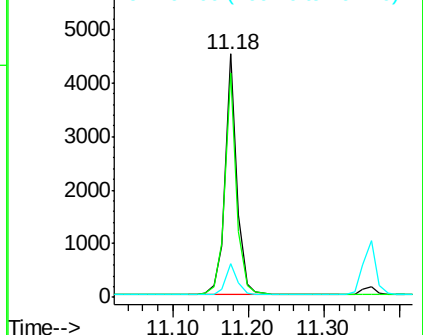
167 13.8 10.7 16.1



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# 2231

Delta R.T. -0.01 min

Lab File: BE089394.D

Acq: 15 Jan 2015 15:45

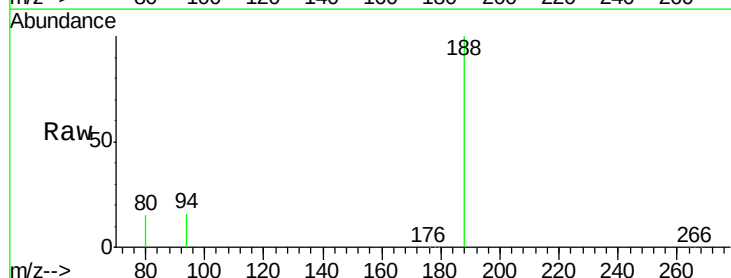
Tgt Ion:188 Resp: 54136

Ion Ratio Lower Upper

188 100

94 16.1 7.6 11.4#

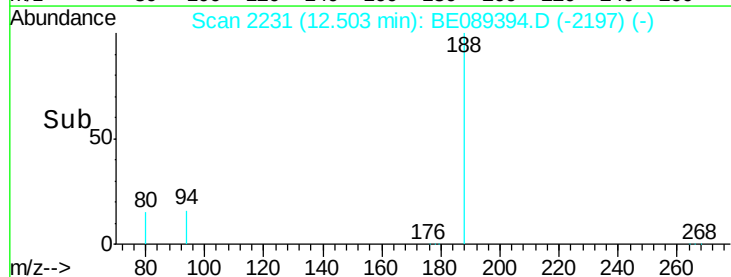
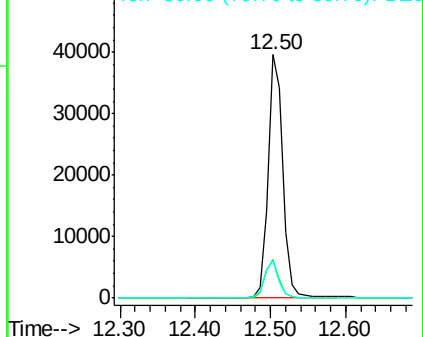
80 15.5 6.8 10.2#

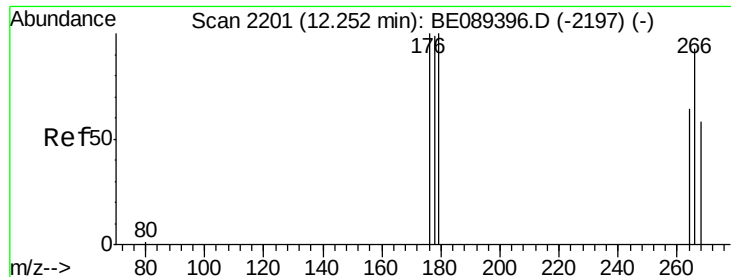


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BE0

Ion 80.00 (79.70 to 80.70): BE0

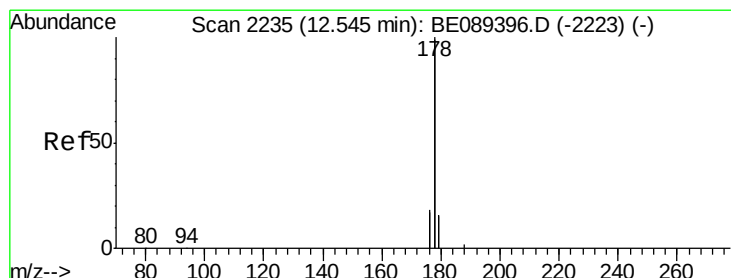
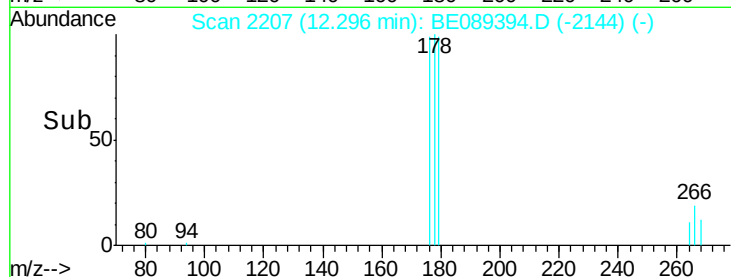
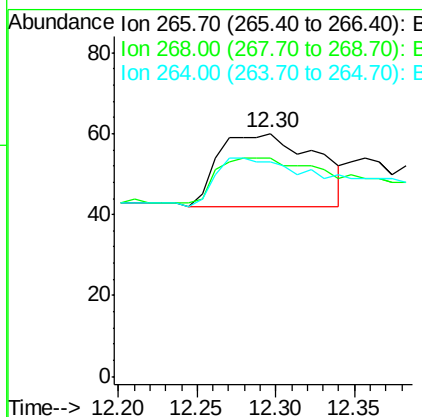
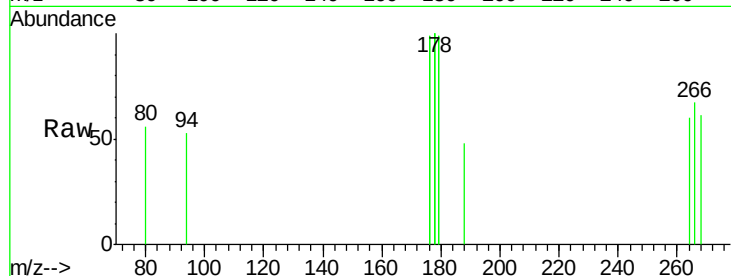




#13
 Pentachlorophenol
 Concen: 0.13 ng
 RT: 12.30 min Scan# 2207
 Delta R.T. 0.04 min
 Lab File: BE089394.D
 Acq: 15 Jan 2015 15:45

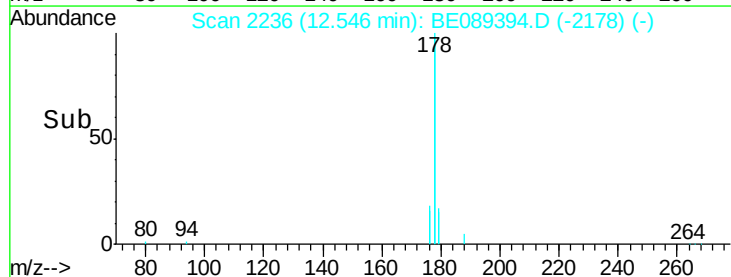
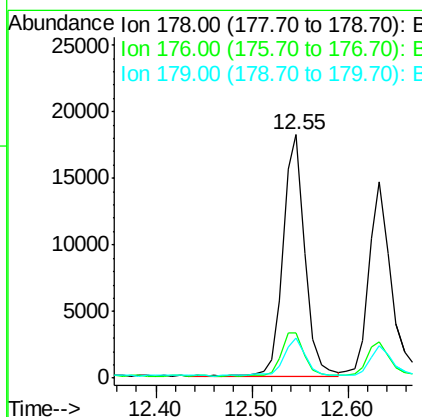
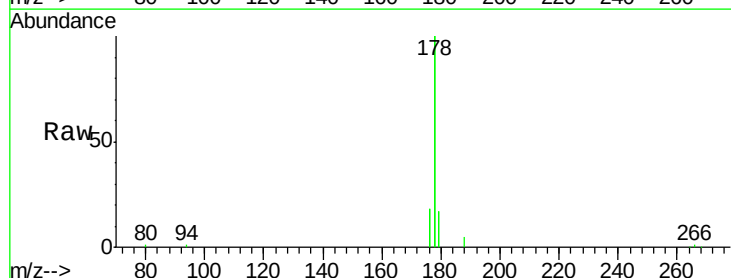
Instrument :
 BNA_M
 LabSampleId :
 SSTDICC0.8

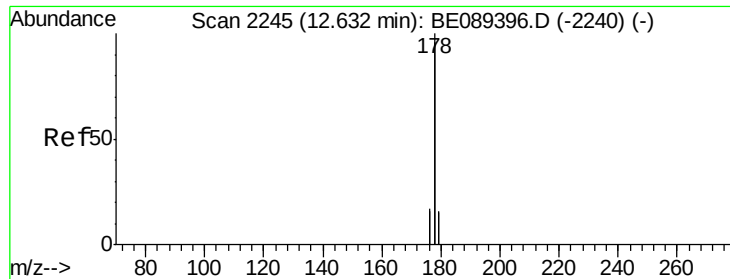
Tgt Ion: 266 Resp: 77
 Ion Ratio Lower Upper
 266 100
 268 90.0 60.5 90.7
 264 88.3 63.6 95.4



#14
 Phenanthrene
 Concen: 0.51 ng
 RT: 12.55 min Scan# 2236
 Delta R.T. 0.00 min
 Lab File: BE089394.D
 Acq: 15 Jan 2015 15:45

Tgt Ion: 178 Resp: 28132
 Ion Ratio Lower Upper
 178 100
 176 18.8 14.9 22.3
 179 15.8 12.3 18.5





#15

Anthracene

Concen: 0.47 ng

RT: 12.63 min Scan# 2246

Delta R.T. 0.00 min

Lab File: BE089394.D

Acq: 15 Jan 2015 15:45

Instrument :

BNA_M

LabSampleId :

SSTDIC0.8

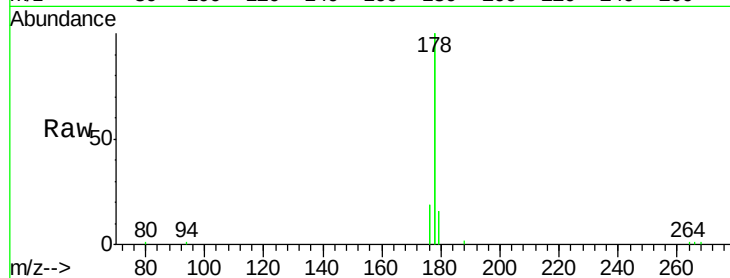
Tgt Ion:178 Resp: 24265

Ion Ratio Lower Upper

178 100

176 17.9 14.4 21.6

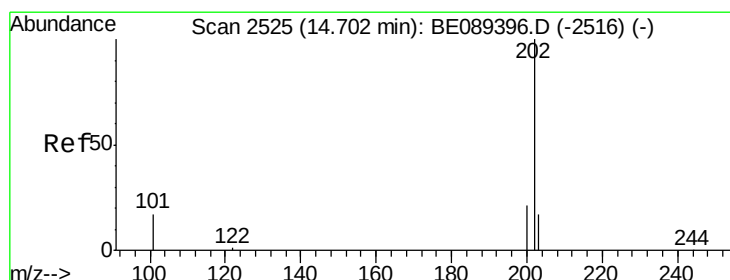
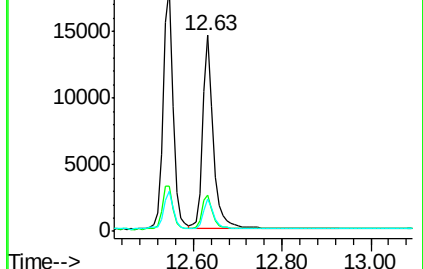
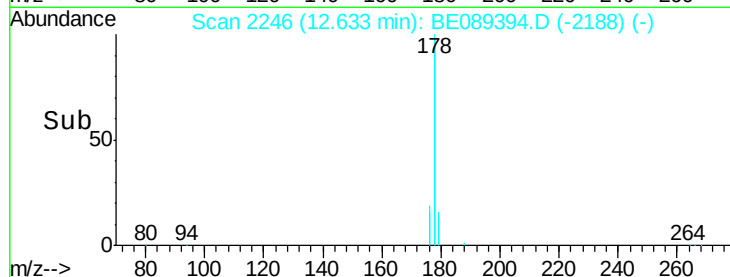
179 15.2 12.0 18.0



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: 0.47 ng

RT: 14.71 min Scan# 2527

Delta R.T. 0.01 min

Lab File: BE089394.D

Acq: 15 Jan 2015 15:45

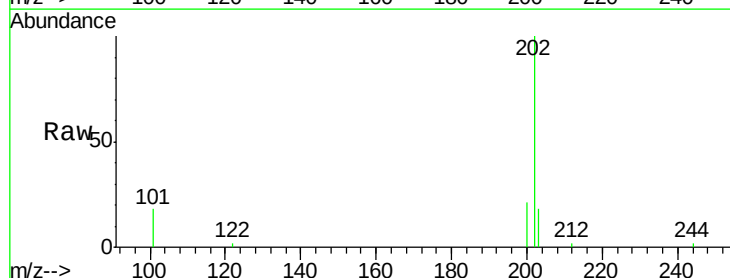
Tgt Ion:202 Resp: 5018

Ion Ratio Lower Upper

202 100

101 16.8 13.2 19.8

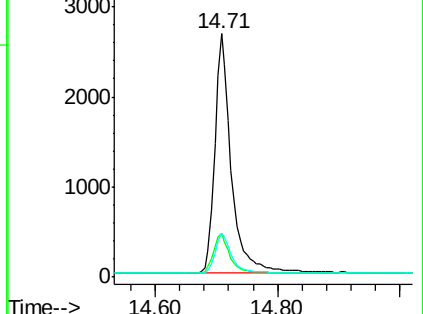
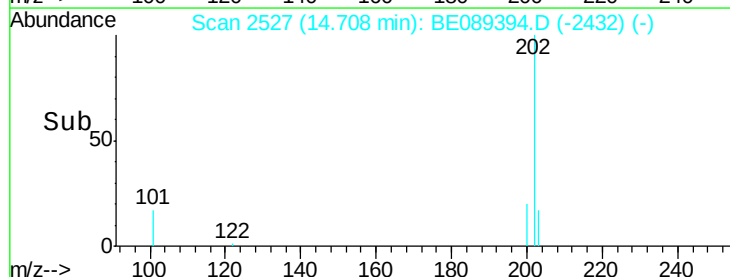
203 17.0 13.5 20.3

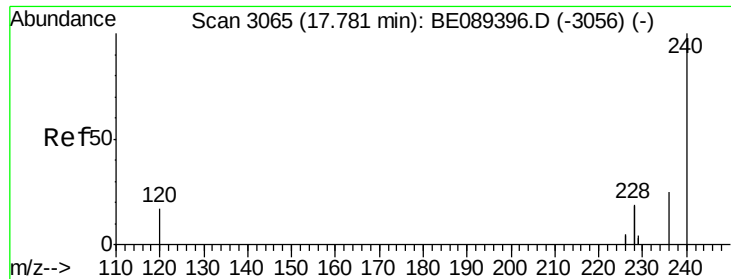


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E

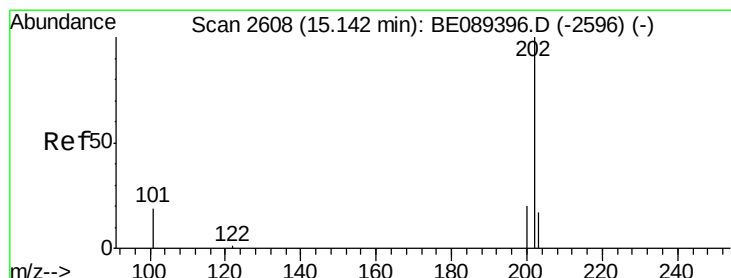
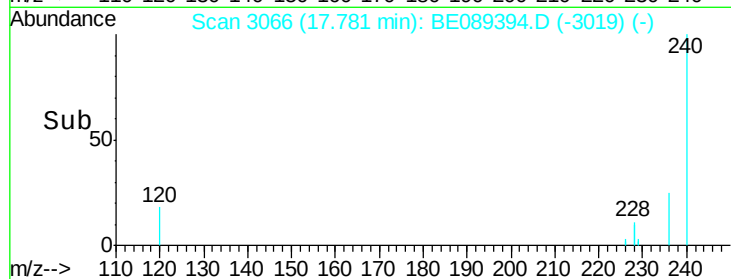
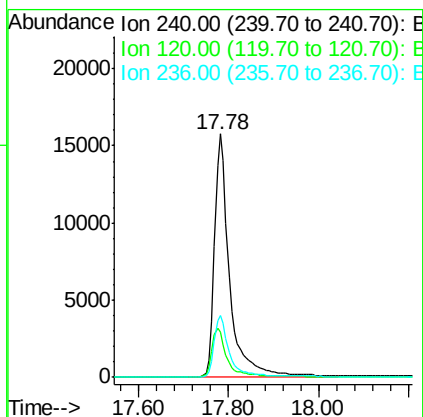
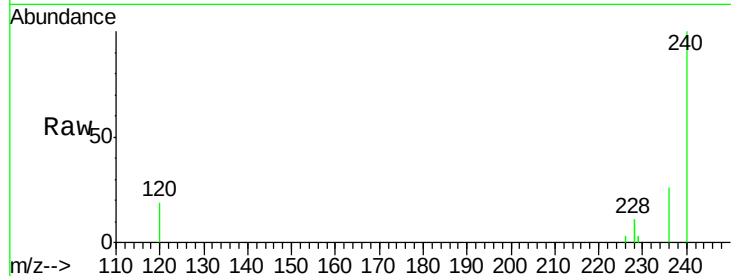




#17
Chrysene-d12
Concen: 5.00 ng
RT: 17.78 min Scan# 3066
Delta R.T. 0.00 min
Lab File: BE089394.D
Acq: 15 Jan 2015 15:45

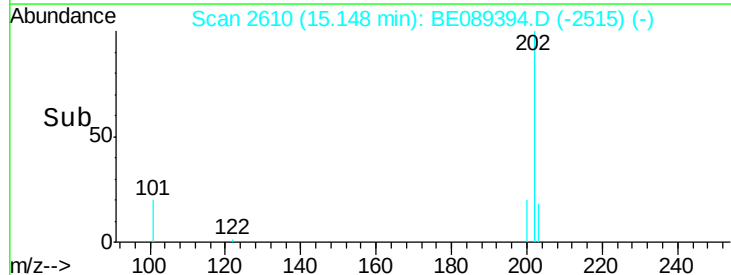
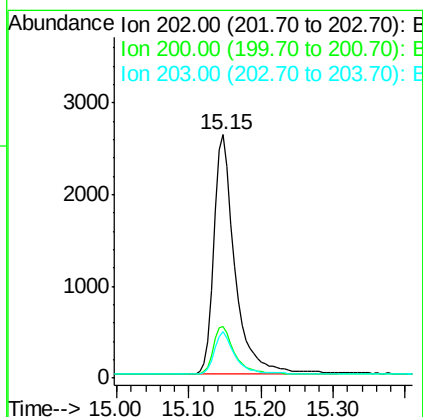
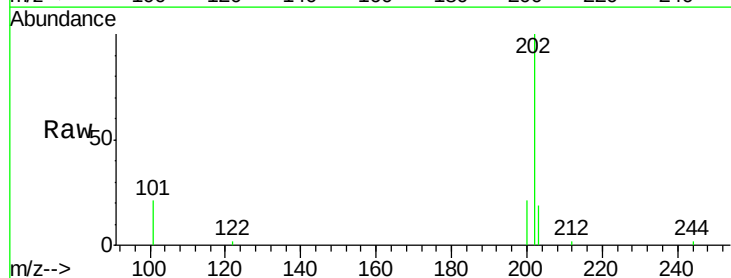
Instrument :
BNA_M
LabSampleId :
SSTDIC0.8

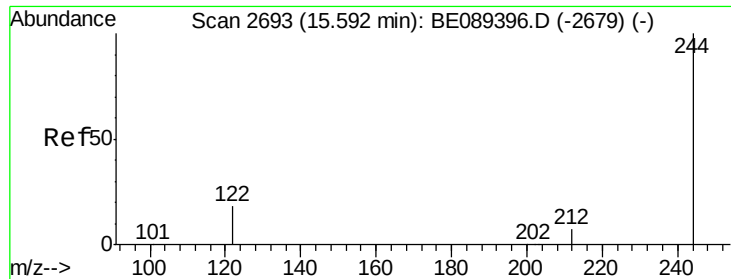
Tgt Ion:240 Resp: 36572
Ion Ratio Lower Upper
240 100
120 18.6 14.2 21.2
236 25.6 20.6 30.8



#18
Pyrene
Concen: 0.44 ng
RT: 15.15 min Scan# 2610
Delta R.T. 0.01 min
Lab File: BE089394.D
Acq: 15 Jan 2015 15:45

Tgt Ion:202 Resp: 5266
Ion Ratio Lower Upper
202 100
200 20.2 16.2 24.2
203 17.6 13.7 20.5





#19

Terphenyl-d14

Concen: 0.43 ng

RT: 15.59 min Scan# 2694

Delta R.T. 0.00 min

Lab File: BE089394.D

Acq: 15 Jan 2015 15:45

Instrument :

BNA_M

LabSampleId :

SSTDIC0.8

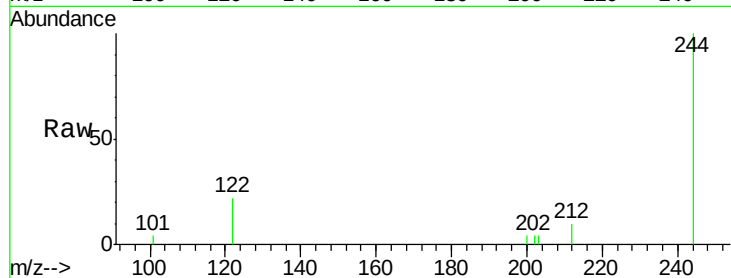
Tgt Ion:244 Resp: 2665

Ion Ratio Lower Upper

244 100

212 10.4 6.7 10.1#

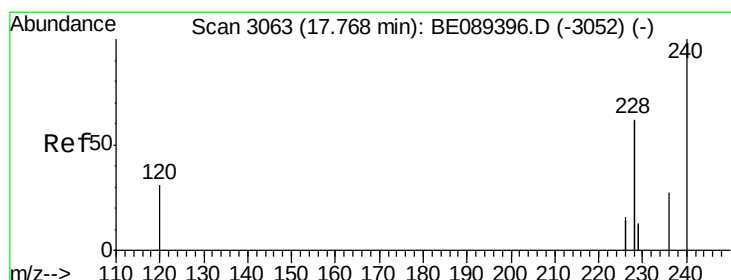
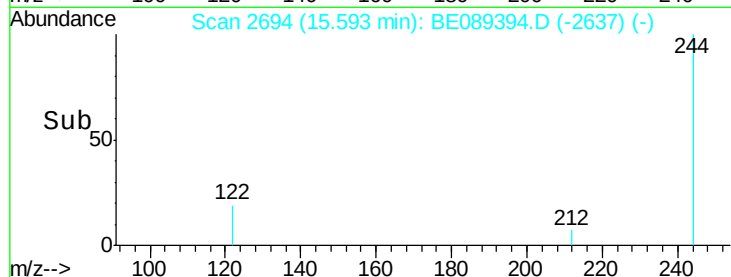
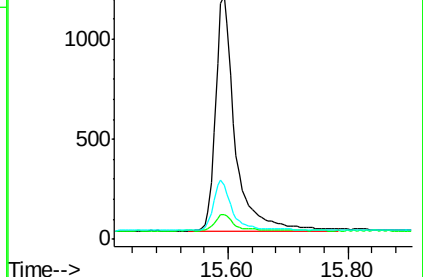
122 22.2 15.7 23.5



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: 0.38 ng

RT: 17.77 min Scan# 3064

Delta R.T. 0.00 min

Lab File: BE089394.D

Acq: 15 Jan 2015 15:45

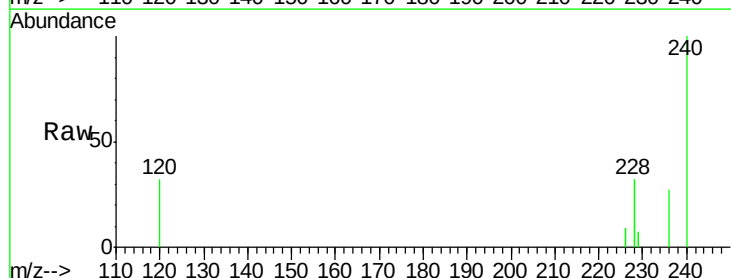
Tgt Ion:228 Resp: 12271

Ion Ratio Lower Upper

228 100

226 27.2 20.6 31.0

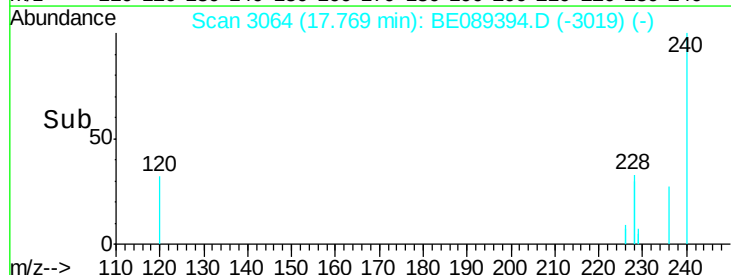
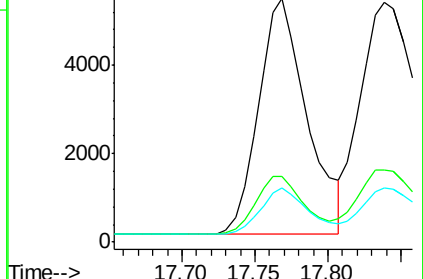
229 22.3 17.1 25.7

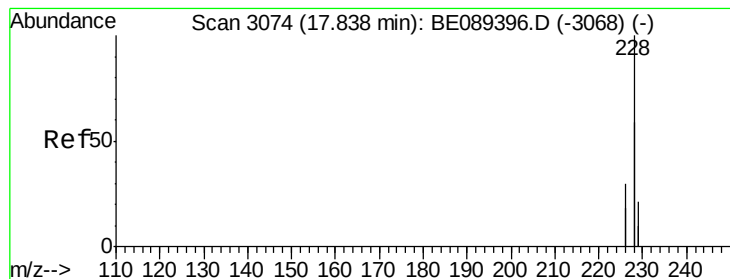


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#21

Chrysene

Concen: 0.50 ng

RT: 17.84 min Scan# 3075

Delta R.T. 0.00 min

Lab File: BE089394.D

Acq: 15 Jan 2015 15:45

Instrument :

BNA_M

LabSampleId :

SSTDIC0.8

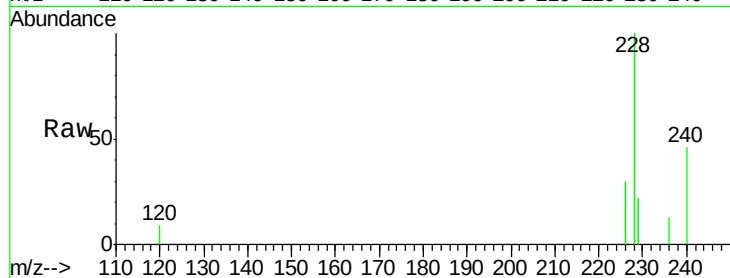
Tgt Ion:228 Resp: 18726

Ion Ratio Lower Upper

228 100

226 30.1 24.2 36.4

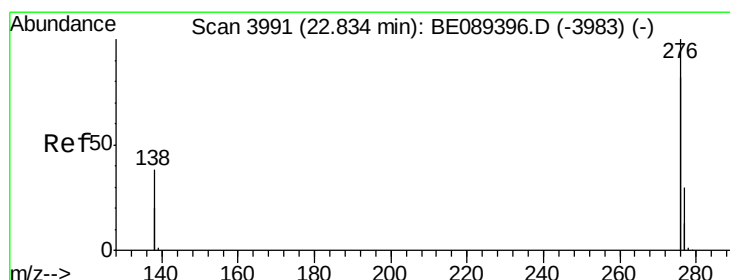
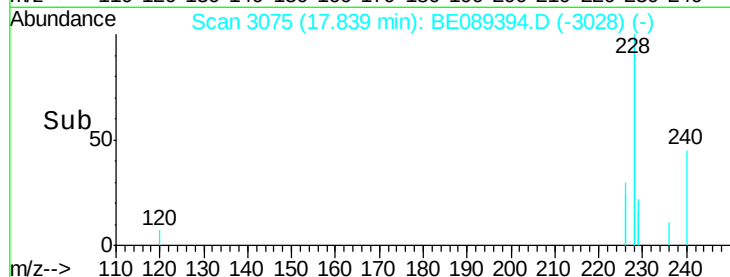
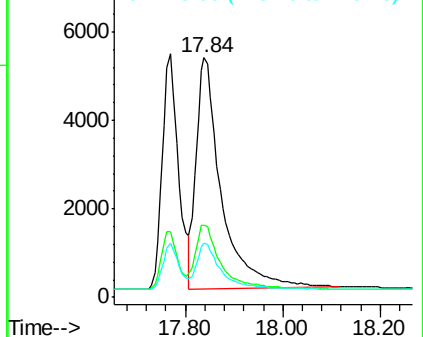
229 22.5 16.5 24.7



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: 0.12 ng

RT: 22.84 min Scan# 3993

Delta R.T. 0.01 min

Lab File: BE089394.D

Acq: 15 Jan 2015 15:45

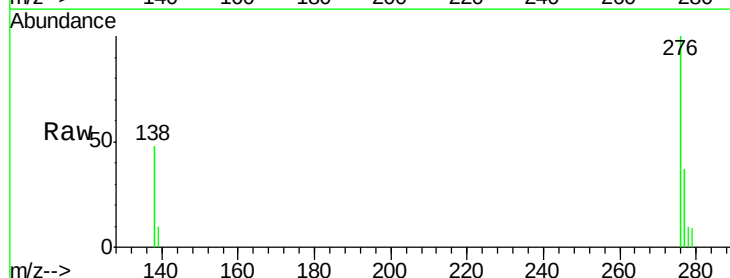
Tgt Ion:276 Resp: 2560

Ion Ratio Lower Upper

276 100

138 34.9 15.0 22.6#

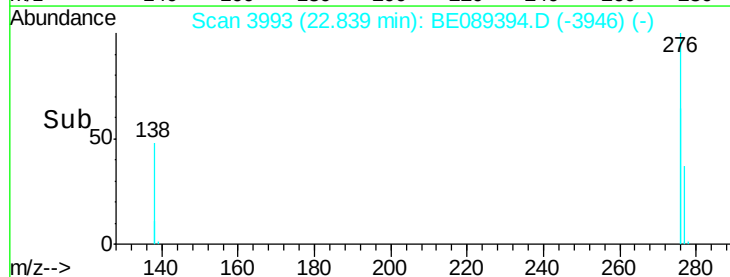
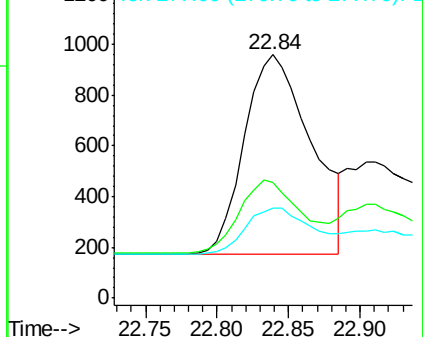
277 22.4 11.4 17.2#

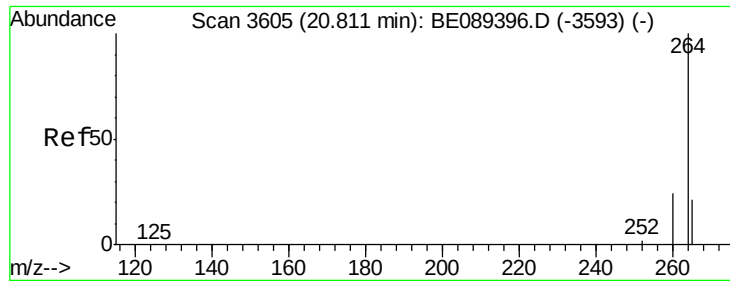


Abundance Ion 276.00 (275.70 to 276.70): E

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# 3606

Delta R.T. -0.00 min

Lab File: BE089394.D

Acq: 15 Jan 2015 15:45

Instrument :

BNA_M

LabSampleId :

SSTDIC0.8

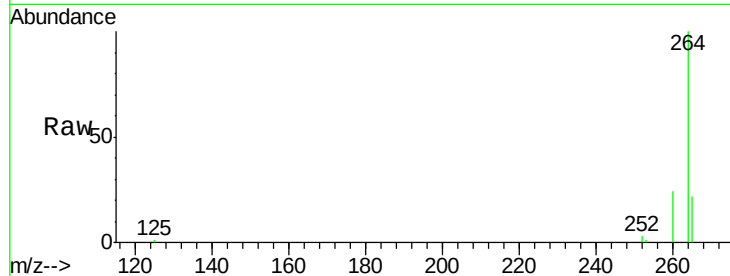
Tgt Ion:264 Resp: 27547

Ion Ratio Lower Upper

264 100

260 23.9 19.2 28.8

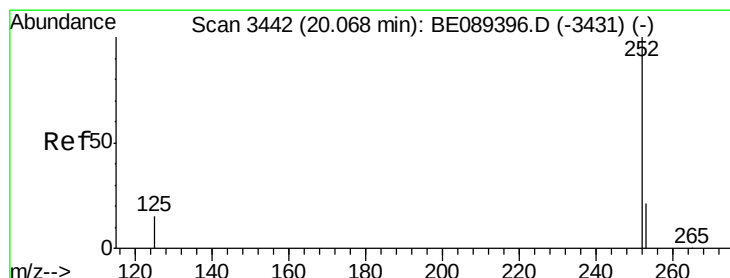
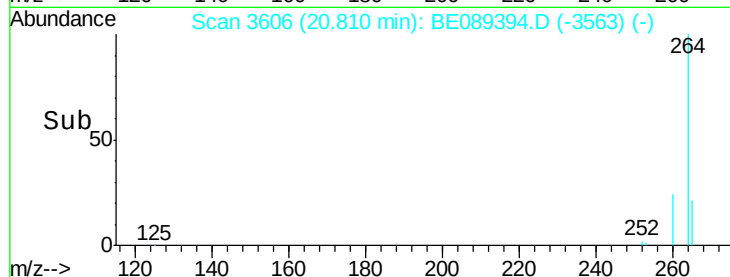
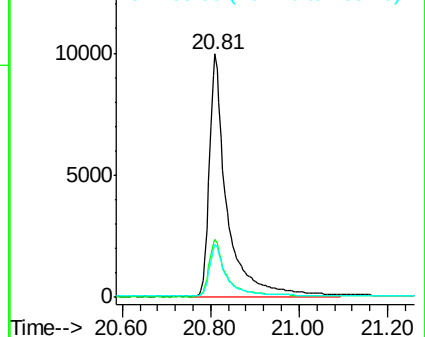
265 21.5 17.3 25.9



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



#24

Benzo(b)fluoranthene

Concen: 0.54 ng

RT: 20.13 min Scan# 3456

Delta R.T. 0.06 min

Lab File: BE089394.D

Acq: 15 Jan 2015 15:45

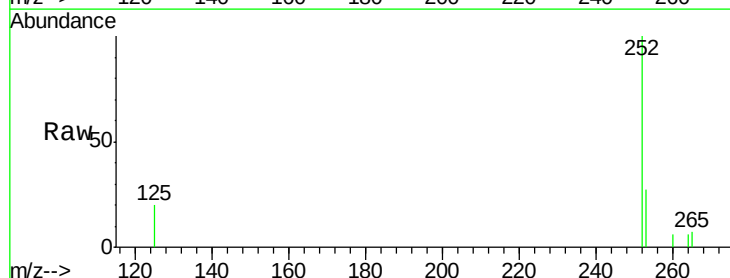
Tgt Ion:252 Resp: 2583

Ion Ratio Lower Upper

252 100

253 26.6 19.1 28.7

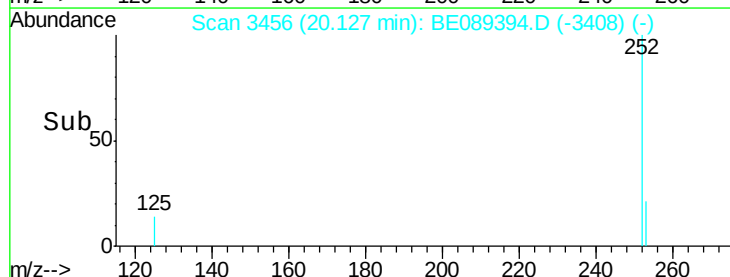
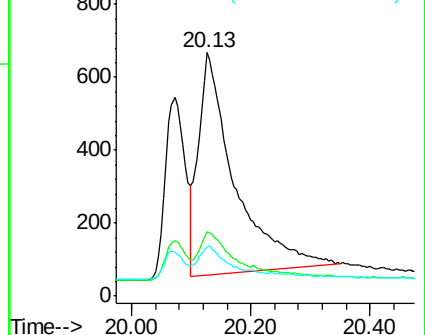
125 20.1 14.5 21.7

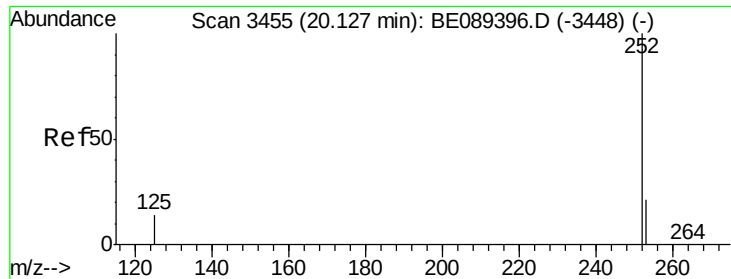


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#25

Benzo(k)fluoranthene

Concen: 0.34 ng

RT: 20.13 min Scan# 3456

Delta R.T. -0.00 min

Lab File: BE089394.D

Acq: 15 Jan 2015 15:45

Instrument :

BNA_M

LabSampleId :

SSTDIC0.8

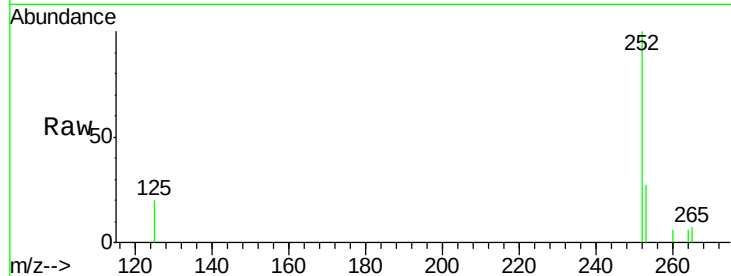
Tgt Ion:252 Resp: 2583

Ion Ratio Lower Upper

252 100

253 26.6 18.7 28.1

125 20.1 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

20.13

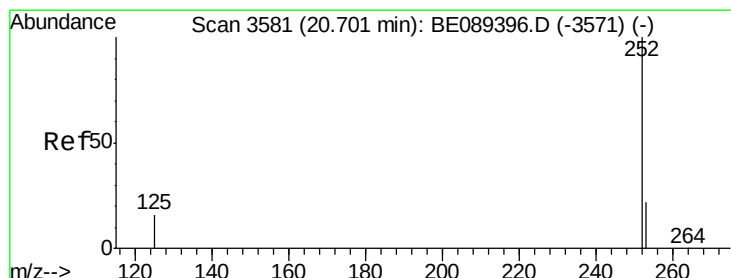
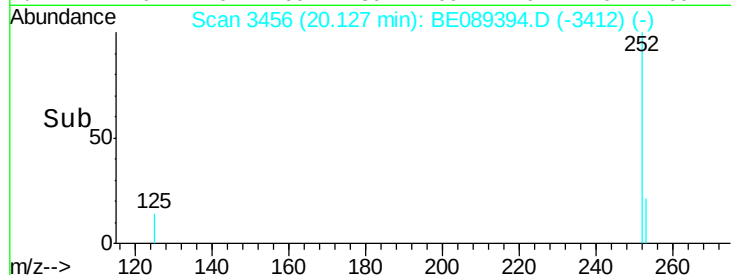
600

400

200

0

Time--> 20.00 20.20 20.40



#26

Benzo(a)pyrene

Concen: 0.25 ng

RT: 20.70 min Scan# 3582

Delta R.T. -0.00 min

Lab File: BE089394.D

Acq: 15 Jan 2015 15:45

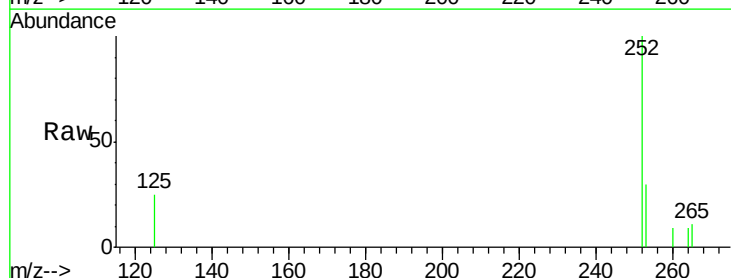
Tgt Ion:252 Resp: 1186

Ion Ratio Lower Upper

252 100

253 29.6 20.0 30.0

125 25.4 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

20.70

600

500

400

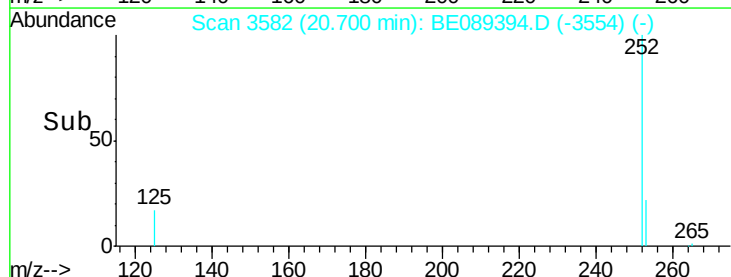
300

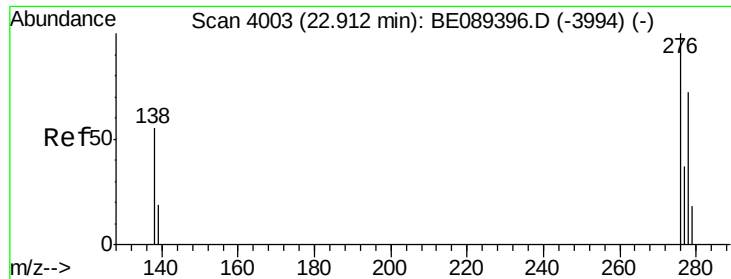
200

100

0

Time--> 20.60 20.70 20.80

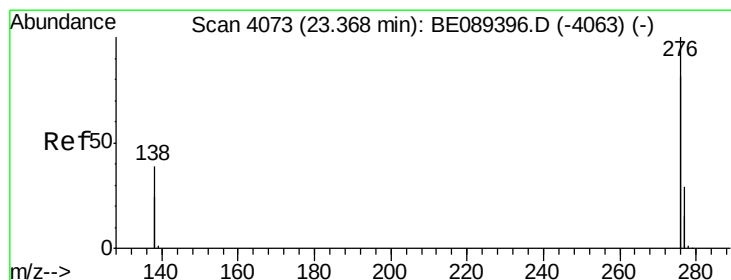
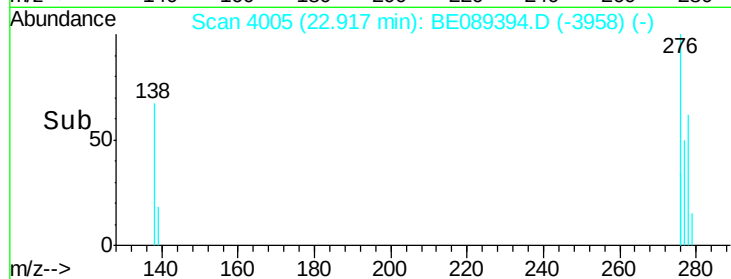
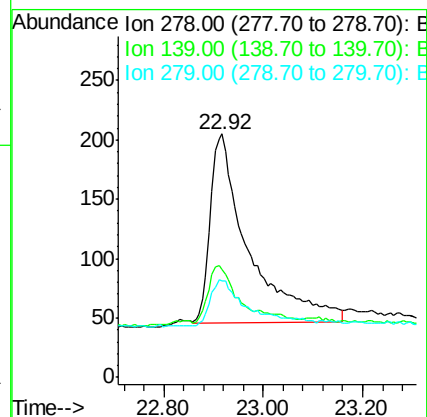
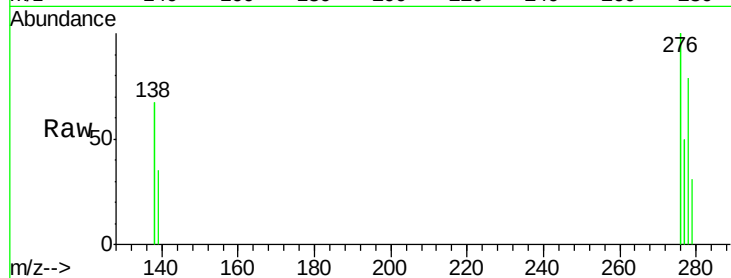




#27
Dibenzo(a,h)anthracene
Concen: 0.23 ng
RT: 22.92 min Scan# 4005
Delta R.T. 0.01 min
Lab File: BE089394.D
Acq: 15 Jan 2015 15:45

Instrument :
BNA_M
LabSampleId :
SSTDIC0.8

Tgt Ion: 278 Resp: 845
Ion Ratio Lower Upper
278 100
139 44.4 26.8 40.2#
279 39.5 25.4 38.0#



#28
Benzo(g,h,i)perylene
Concen: 0.29 ng
RT: 23.38 min Scan# 4076
Delta R.T. 0.01 min
Lab File: BE089394.D
Acq: 15 Jan 2015 15:45

Tgt Ion: 276 Resp: 6387
Ion Ratio Lower Upper
276 100
277 34.0 22.9 34.3
138 43.2 31.2 46.8

