

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE011515\
 Data File : BE089399.D
 Acq On : 15 Jan 2015 18:32
 Operator : TP/IZ
 Sample : SSTDICC010
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_M
 LabSampleId :
 SSTDICC010

Quant Time: Jan 16 05:29:56 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

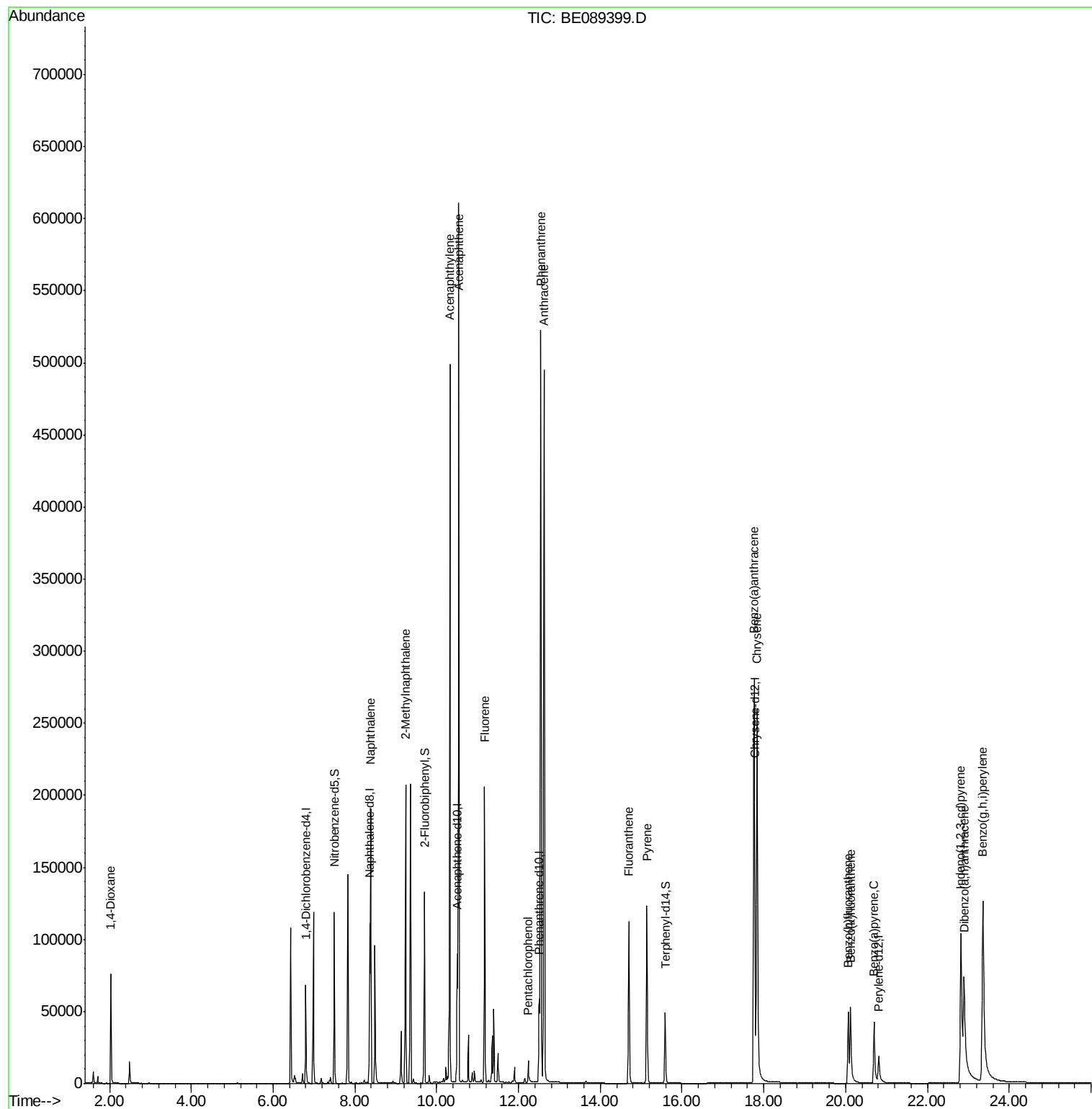
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.80	152	22221	5.00	ng	0.00
3) Naphthalene-d8	8.36	136	84365	5.00	ng	0.00
7) Acenaphthene-d10	10.51	164	36516	5.00	ng	0.01
12) Phenanthrene-d10	12.51	188	54921	5.00	ng	0.00
17) Chrysene-d12	17.78	240	38238	5.00	ng	0.00
23) Perylene-d12	20.81	264	31668	5.00	ng	0.00
System Monitoring Compounds						
4) Nitrobenzene-d5	7.50	82	63742	11.60	ng	0.00
8) 2-Fluorobiphenyl	9.71	172	97466	9.77	ng	0.00
19) Terphenyl-d14	15.59	244	64881	10.04	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.03	88	33617	10.56	ng	99
5) Naphthalene	8.39	128	181439	9.73	ng	100
6) 2-Methylnaphthalene	9.24	142	111645	9.33	ng	99
9) Acenaphthylene	10.33	152	634948	10.37	ng	100
10) Acenaphthene	10.54	154	90531	9.56	ng	97
11) Fluorene	11.17	166	99546	10.06	ng	100
13) Pentachlorophenol	12.24	266	12628	21.42	ng	# 84
14) Phenanthrene	12.55	178	536799	9.63	ng	99
15) Anthracene	12.62	178	546484	10.41	ng	100
16) Fluoranthene	14.70	202	118295	10.97	ng	99
18) Pyrene	15.14	202	125091	10.04	ng	99
20) Benzo(a)anthracene	17.76	228	357341	10.53	ng	98
21) Chrysene	17.84	228	389057	10.01	ng	97
22) Indeno(1,2,3-cd)pyrene	22.82	276	184342	7.94	ng	# 76
24) Benzo(b)fluoranthene	20.06	252	70498	12.72	ng	# 93
25) Benzo(k)fluoranthene	20.12	252	98930	11.48	ng	95
26) Benzo(a)pyrene	20.70	252	71048	13.10	ng	# 92
27) Dibenzo(a,h)anthracene	22.90	278	57920	13.44	ng	# 87
28) Benzo(g,h,i)perylene	23.35	276	296683	11.86	ng	91

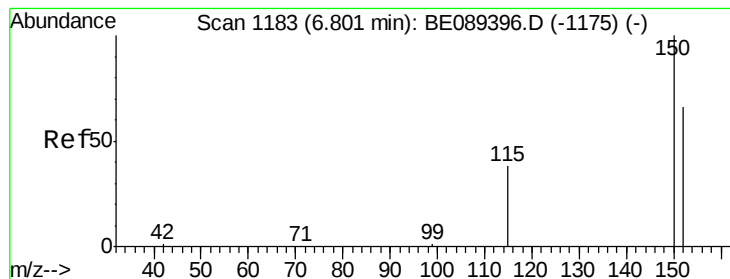
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: BE089399.D

Acq: 15 Jan 2015 18:32

Instrument :

BNA_M

LabSampleId :

SSTDIC010

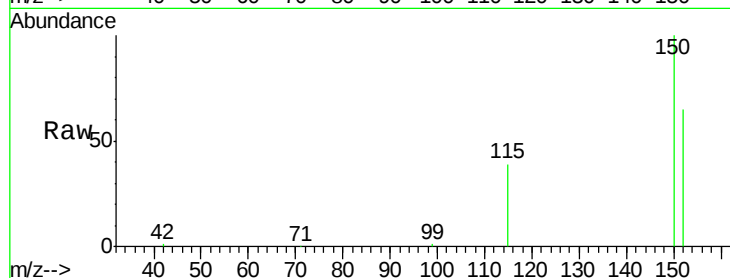
Tgt Ion: 152 Resp: 22221

Ion Ratio Lower Upper

152 100

150 154.4 121.9 182.9

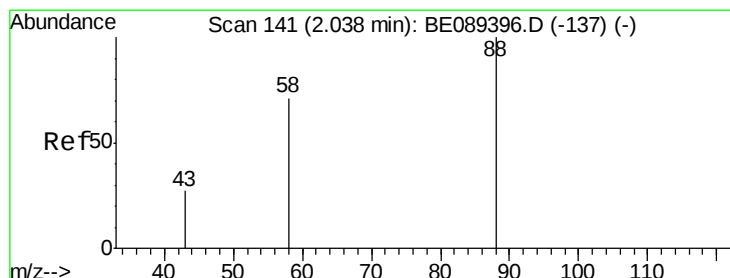
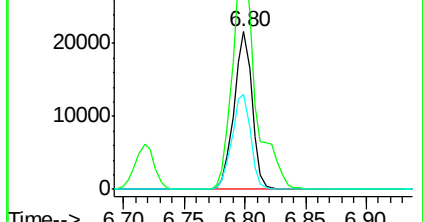
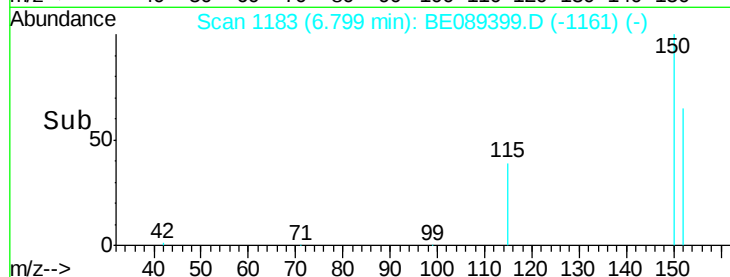
115 60.2 47.0 70.6



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: 10.56 ng

RT: 2.03 min Scan# 139

Delta R.T. -0.01 min

Lab File: BE089399.D

Acq: 15 Jan 2015 18:32

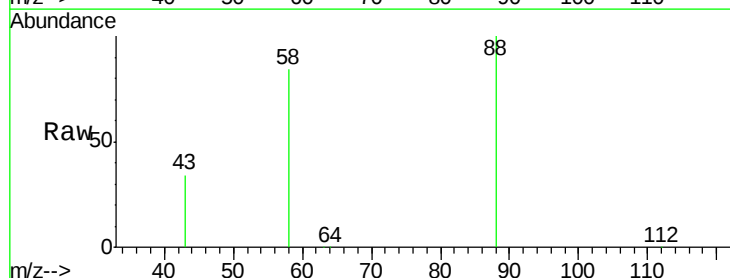
Tgt Ion: 88 Resp: 33617

Ion Ratio Lower Upper

88 100

58 80.0 64.6 96.8

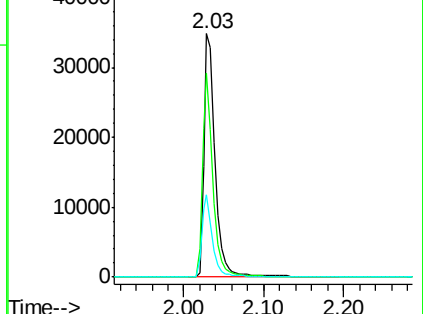
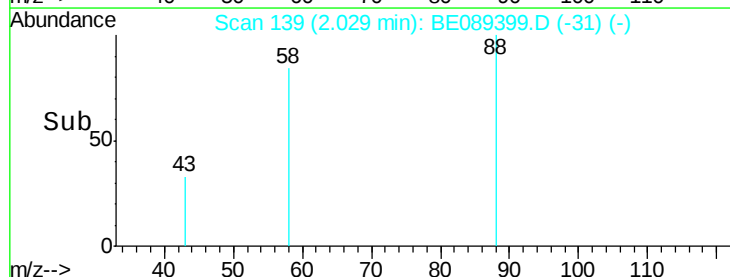
43 32.4 25.7 38.5

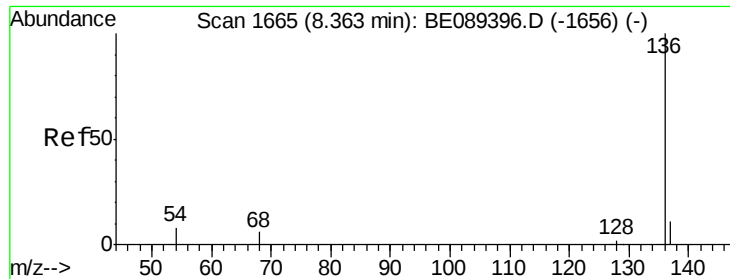


Abundance Ion 88.00 (87.70 to 88.70): BE0

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: BE089399.D

Acq: 15 Jan 2015 18:32

Instrument :

BNA_M

LabSampleId :

SSTDIC010

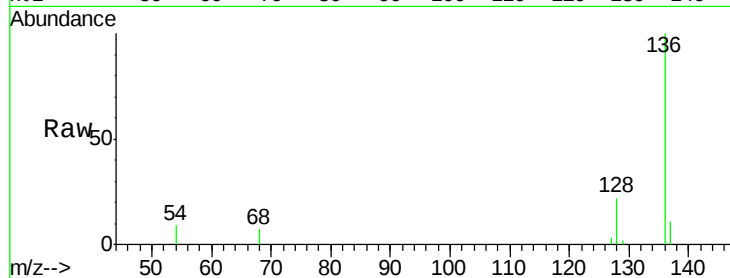
Tgt Ion: 136 Resp: 84365

Ion Ratio Lower Upper

136 100

137 11.0 8.7 13.1

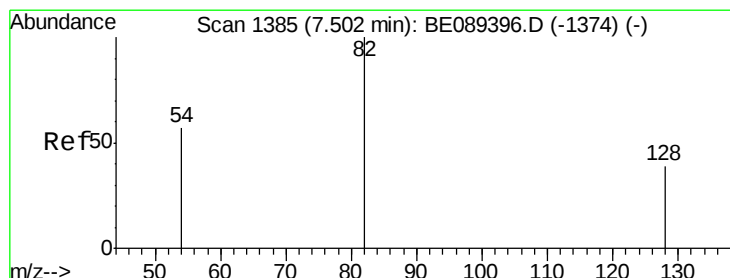
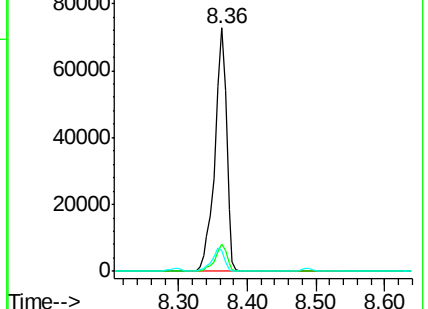
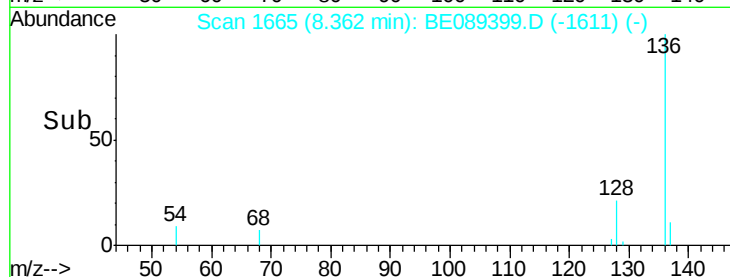
54 8.8 6.5 9.7



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: 11.60 ng

RT: 7.50 min Scan# 1384

Delta R.T. -0.00 min

Lab File: BE089399.D

Acq: 15 Jan 2015 18:32

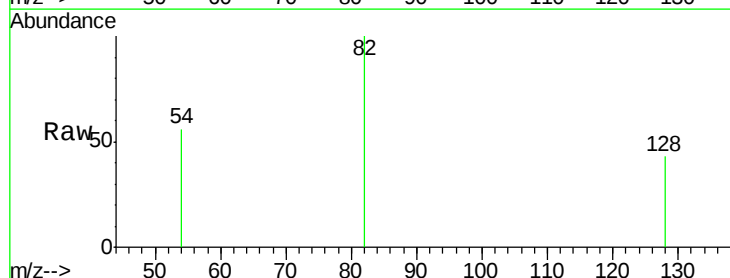
Tgt Ion: 82 Resp: 63742

Ion Ratio Lower Upper

82 100

128 43.4 31.5 47.3

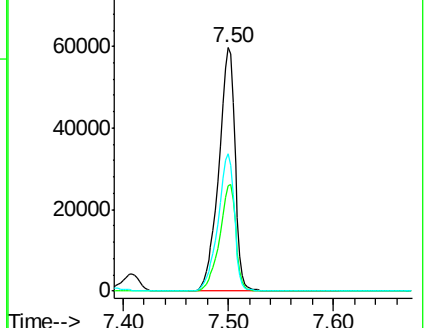
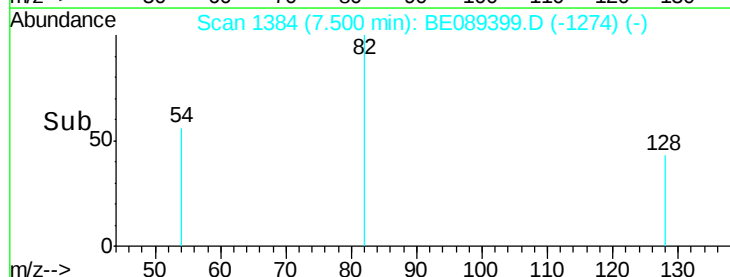
54 56.4 46.2 69.2

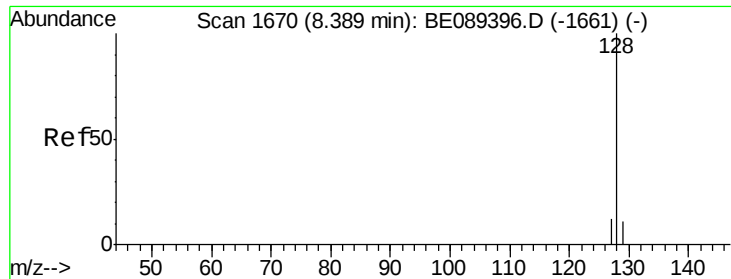


Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE0





#5

Naphthalene

Concen: 9.73 ng

RT: 8.39 min Scan# 1670

Delta R.T. -0.00 min

Lab File: BE089399.D

Acq: 15 Jan 2015 18:32

Instrument :

BNA_M

LabSampleId :

SSTDIC010

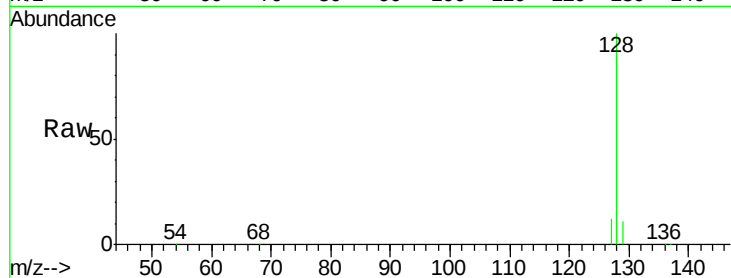
Tgt Ion:128 Resp: 181439

Ion Ratio Lower Upper

128 100

129 11.1 9.0 13.6

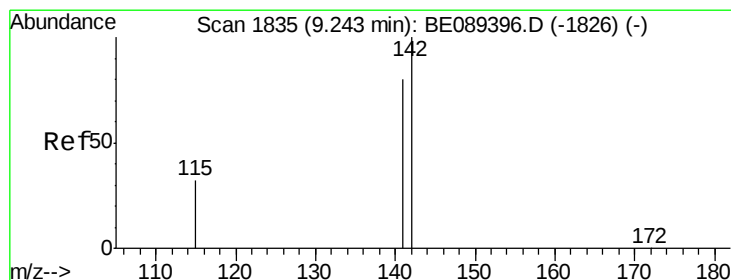
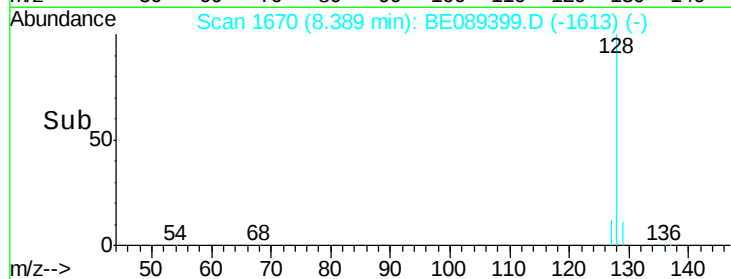
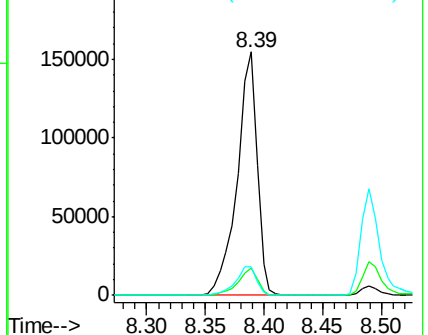
127 11.9 9.6 14.4



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: 9.33 ng

RT: 9.24 min Scan# 1835

Delta R.T. 0.00 min

Lab File: BE089399.D

Acq: 15 Jan 2015 18:32

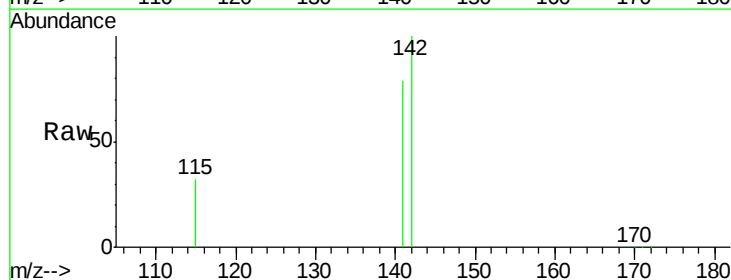
Tgt Ion:142 Resp: 111645

Ion Ratio Lower Upper

142 100

141 79.1 63.7 95.5

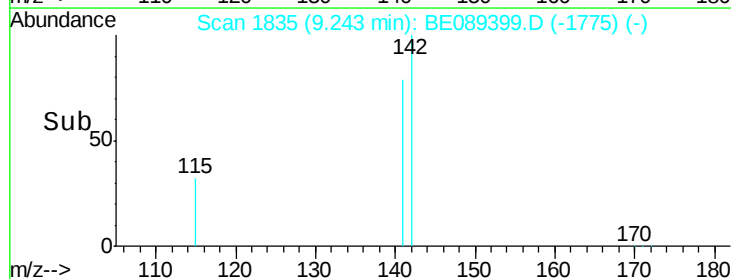
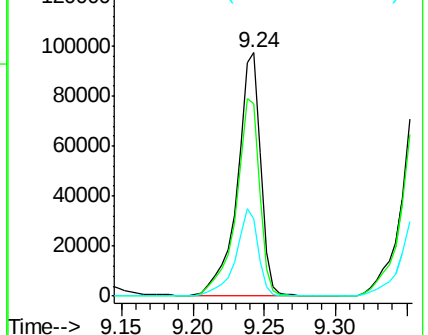
115 31.9 25.4 38.0

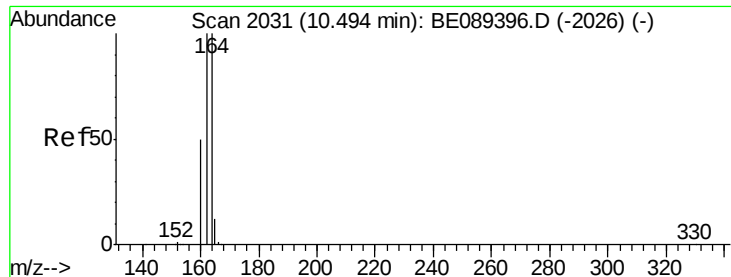


Abundance Ion 142.00 (141.70 to 142.70): E

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: 10.51 min Scan# 2032

Delta R.T. 0.01 min

Lab File: BE089399.D

Acq: 15 Jan 2015 18:32

Instrument :

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LabSampleId :

SSTDIC010

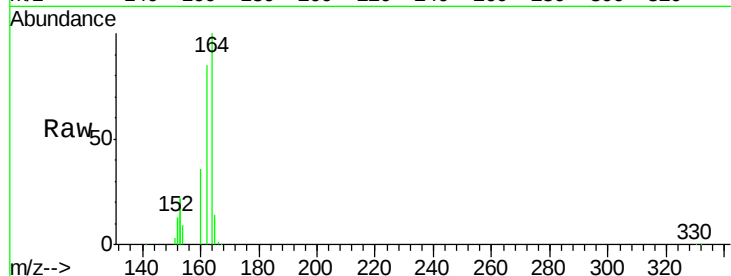
Tgt Ion:164 Resp: 36516

Ion Ratio Lower Upper

164 100

162 85.5 80.2 120.4

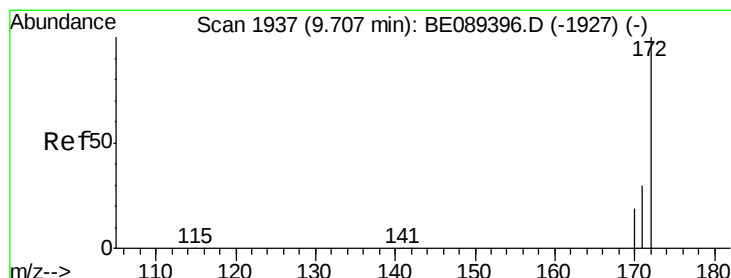
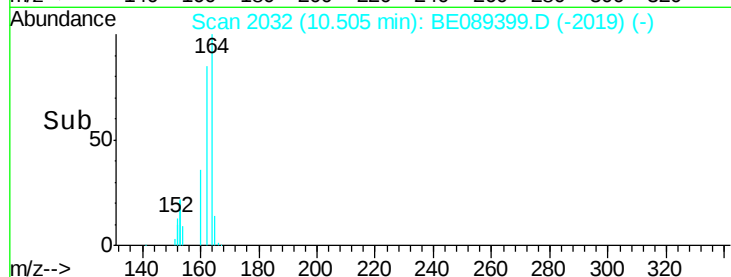
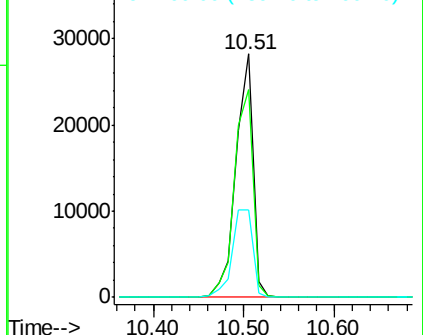
160 35.9 40.1 60.1#



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: 9.77 ng

RT: 9.71 min Scan# 1937

Delta R.T. 0.00 min

Lab File: BE089399.D

Acq: 15 Jan 2015 18:32

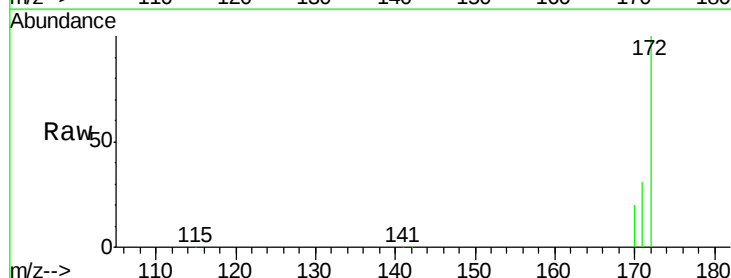
Tgt Ion:172 Resp: 97466

Ion Ratio Lower Upper

172 100

171 30.7 24.4 36.6

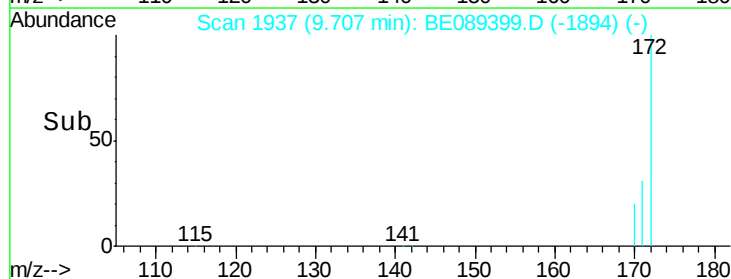
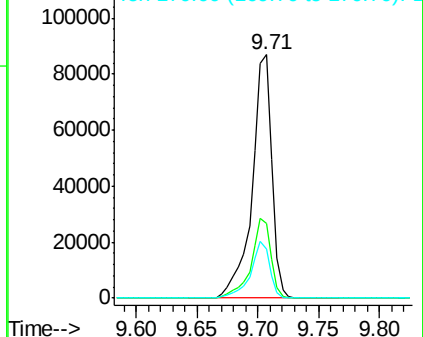
170 19.9 15.8 23.6

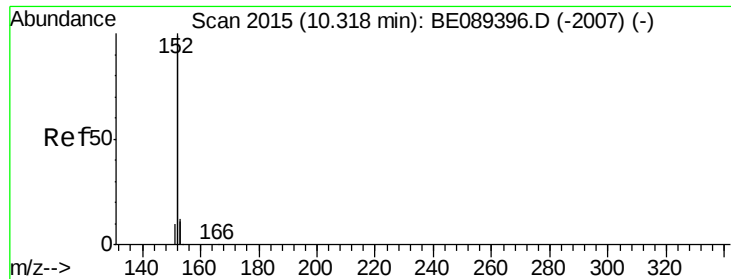


Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E





#9

Acenaphthylene

Concen: 10.37 ng

RT: 10.33 min Scan# 2016

Delta R.T. 0.01 min

Lab File: BE089399.D

Acq: 15 Jan 2015 18:32

Instrument :

BNA_M

LabSampleId :

SSTDICC010

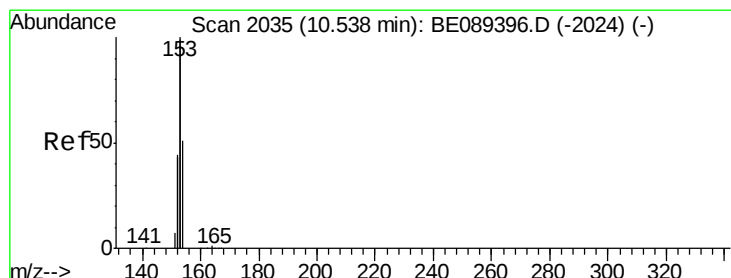
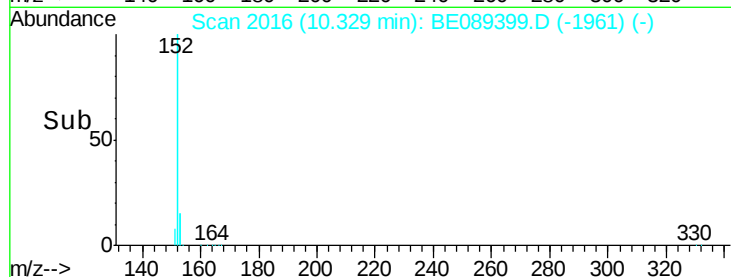
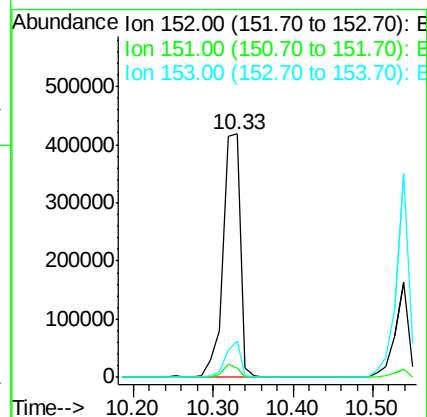
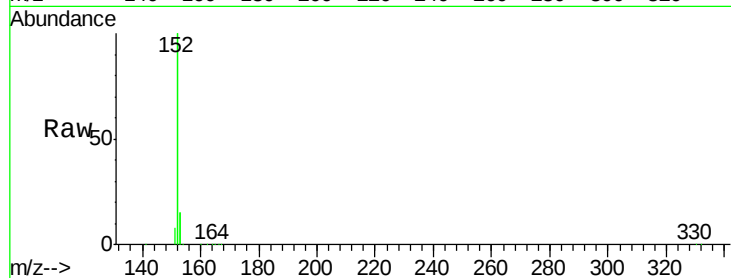
Tgt Ion:152 Resp: 634948

Ion Ratio Lower Upper

152 100

151 4.7 3.7 5.5

153 13.0 10.2 15.4



#10

Acenaphthene

Concen: 9.56 ng

RT: 10.54 min Scan# 2035

Delta R.T. 0.00 min

Lab File: BE089399.D

Acq: 15 Jan 2015 18:32

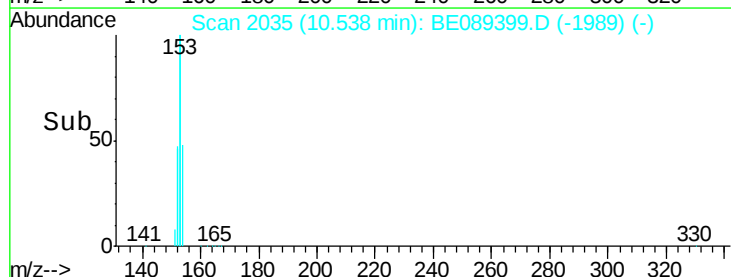
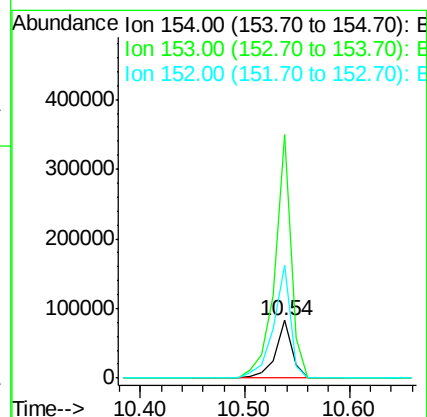
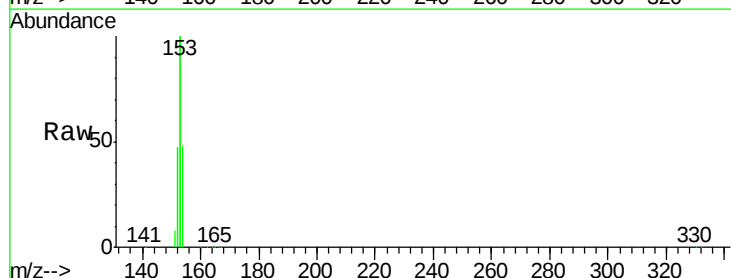
Tgt Ion:154 Resp: 90531

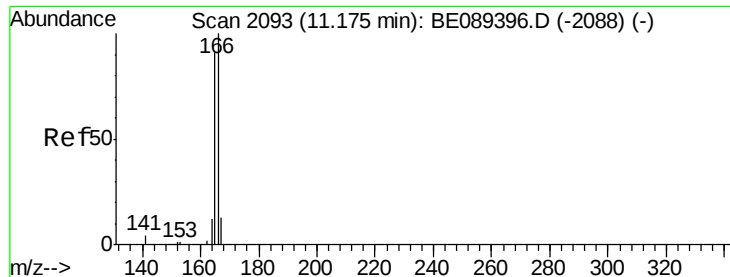
Ion Ratio Lower Upper

154 100

153 417.0 327.0 490.4

152 201.6 162.2 243.4





#11

Fluorene

Concen: 10.06 ng

RT: 11.17 min Scan# 2093

Delta R.T. 0.00 min

Lab File: BE089399.D

Acq: 15 Jan 2015 18:32

Instrument :

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LabSampleId :

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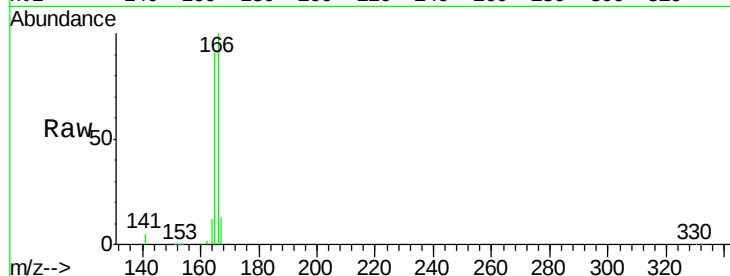
Tgt Ion:166 Resp: 99546

Ion Ratio Lower Upper

166 100

165 90.8 72.5 108.7

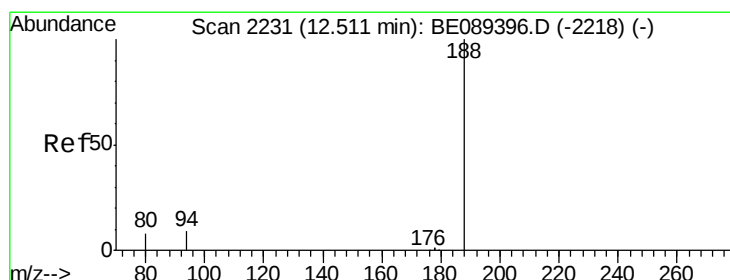
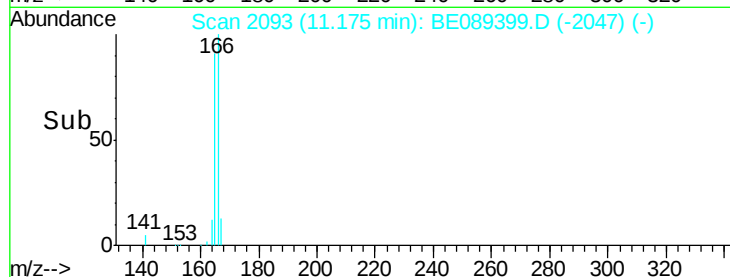
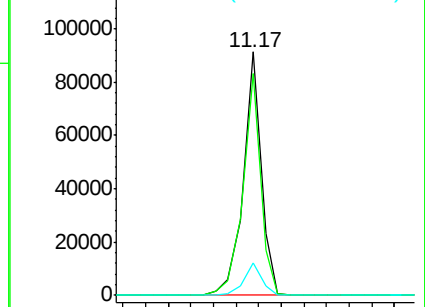
167 13.5 10.7 16.1



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: 12.51 min Scan# 2231

Delta R.T. 0.00 min

Lab File: BE089399.D

Acq: 15 Jan 2015 18:32

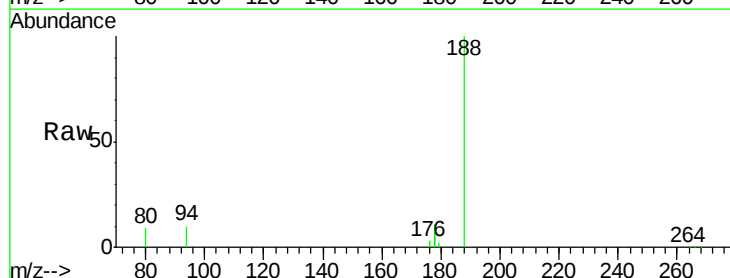
Tgt Ion:188 Resp: 54921

Ion Ratio Lower Upper

188 100

94 9.9 7.6 11.4

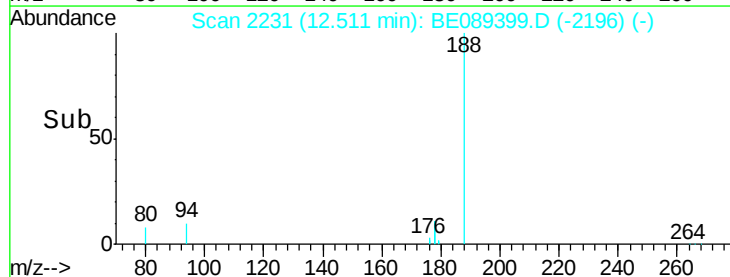
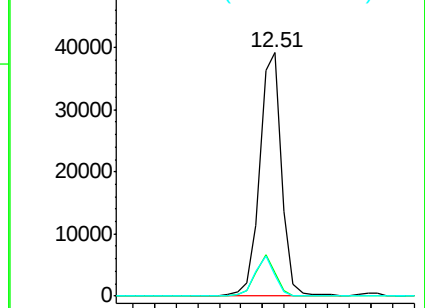
80 8.6 6.8 10.2

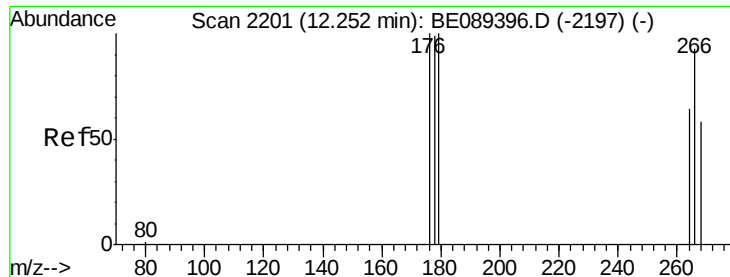


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BE0

Ion 80.00 (79.70 to 80.70): BE0

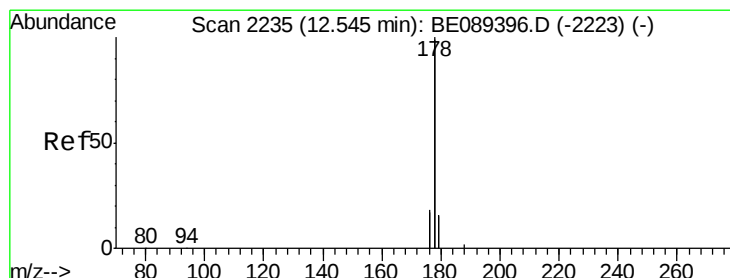
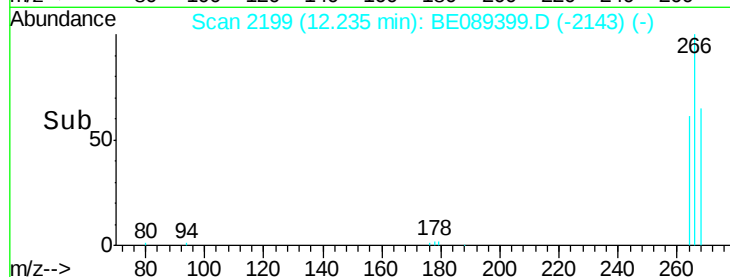
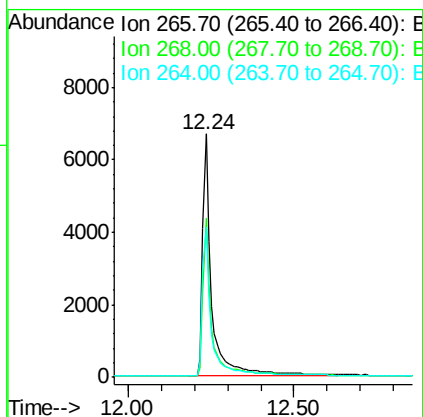
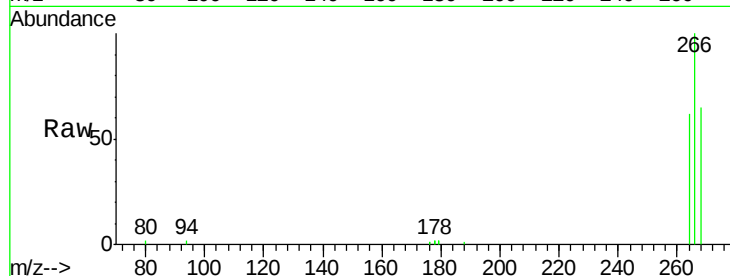




#13
 Pentachlorophenol
 Concen: 21.42 ng
 RT: 12.24 min Scan# 2199
 Delta R.T. -0.02 min
 Lab File: BE089399.D
 Acq: 15 Jan 2015 18:32

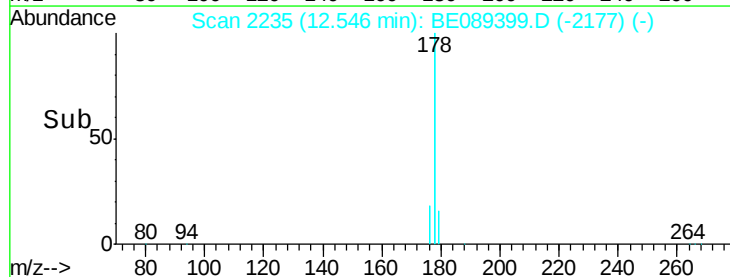
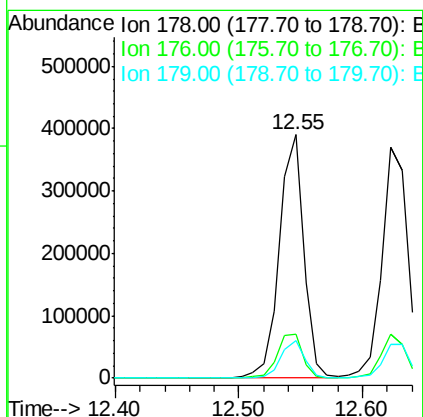
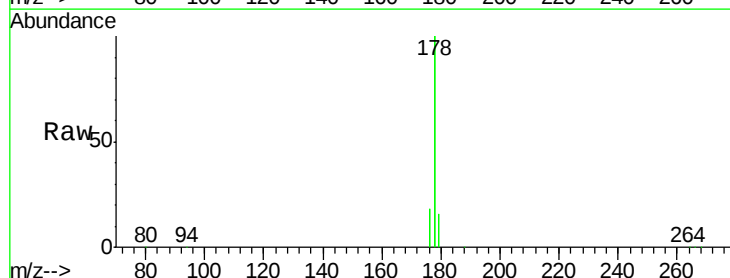
Instrument :
 BNA_M
 LabSampleId :
 SSTDICC010

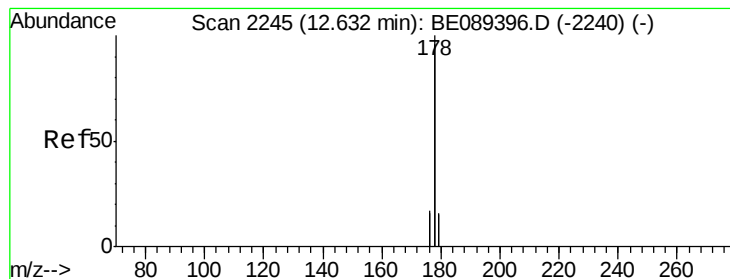
Tgt Ion: 266 Resp: 12628
 Ion Ratio Lower Upper
 266 100
 268 65.2 60.5 90.7
 264 61.6 63.6 95.4#



#14
 Phenanthrene
 Concen: 9.63 ng
 RT: 12.55 min Scan# 2235
 Delta R.T. 0.00 min
 Lab File: BE089399.D
 Acq: 15 Jan 2015 18:32

Tgt Ion: 178 Resp: 536799
 Ion Ratio Lower Upper
 178 100
 176 19.0 14.9 22.3
 179 15.2 12.3 18.5





#15

Anthracene

Concen: 10.41 ng

RT: 12.62 min Scan# 2244

Delta R.T. -0.01 min

Lab File: BE089399.D

Acq: 15 Jan 2015 18:32

Instrument :

BNA_M

LabSampleId :

SSTDICC010

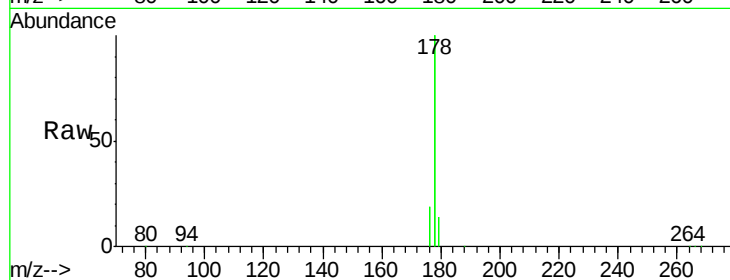
Tgt Ion:178 Resp: 546484

Ion Ratio Lower Upper

178 100

176 18.1 14.4 21.6

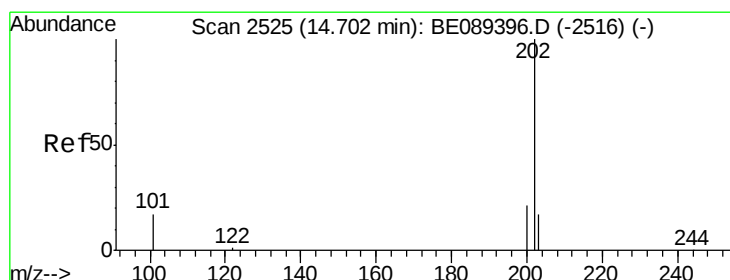
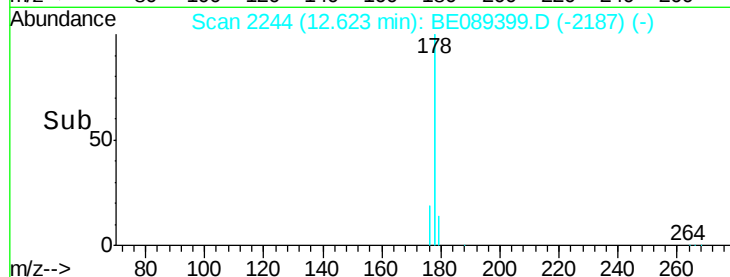
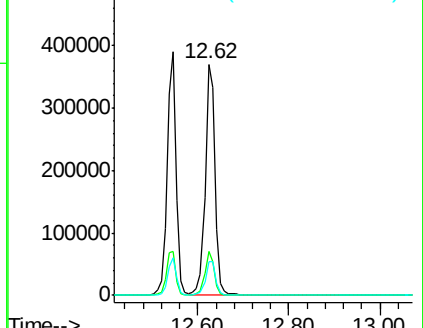
179 15.3 12.0 18.0



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: 10.97 ng

RT: 14.70 min Scan# 2525

Delta R.T. -0.00 min

Lab File: BE089399.D

Acq: 15 Jan 2015 18:32

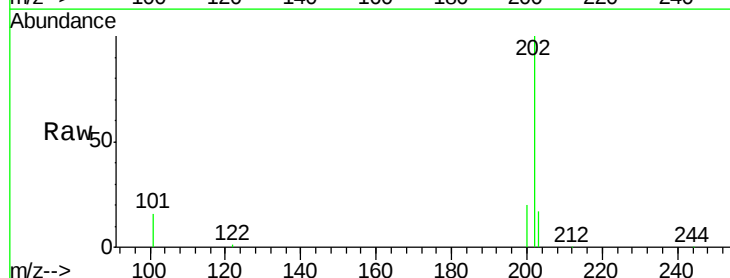
Tgt Ion:202 Resp: 118295

Ion Ratio Lower Upper

202 100

101 17.1 13.2 19.8

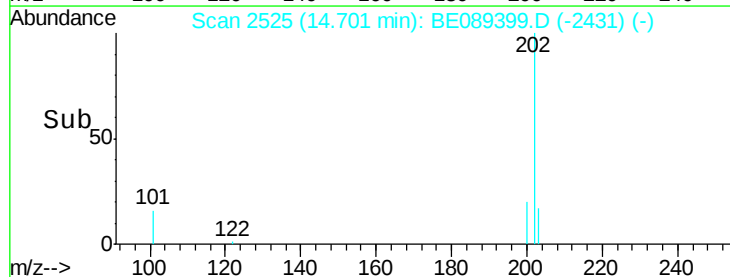
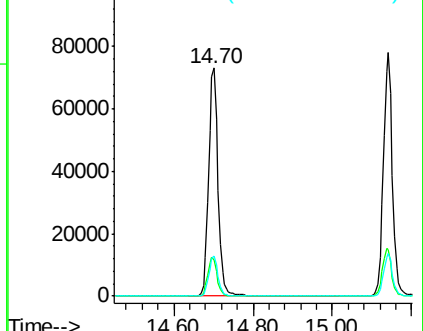
203 17.2 13.5 20.3

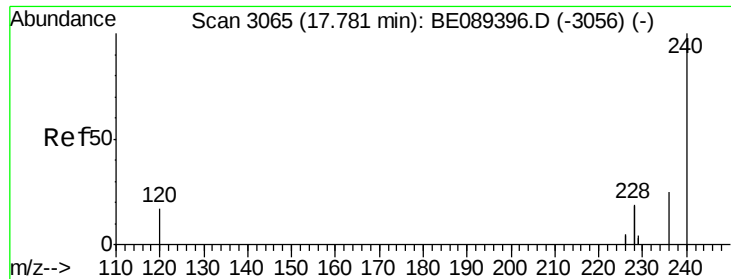


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E

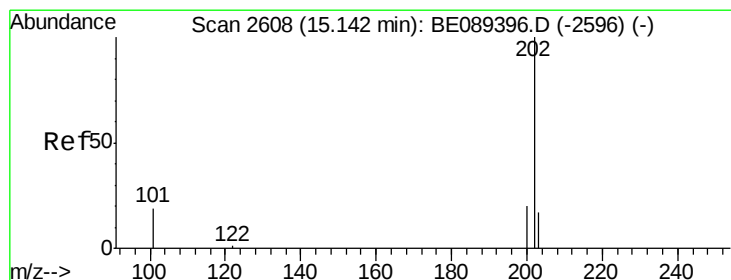
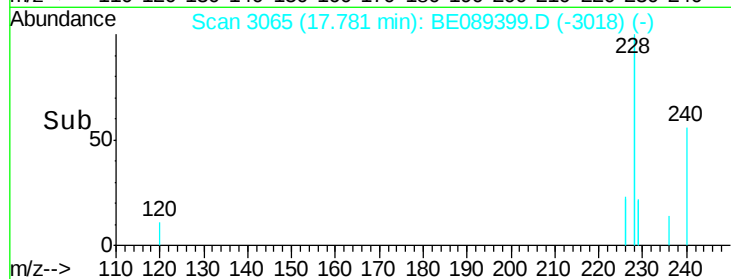
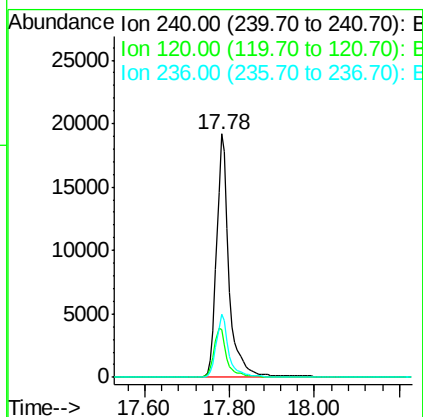
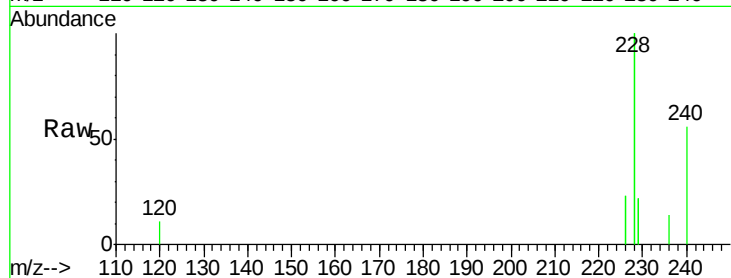




#17
Chrysene-d12
Concen: 5.00 ng
RT: 17.78 min Scan# 3065
Delta R.T. -0.00 min
Lab File: BE089399.D
Acq: 15 Jan 2015 18:32

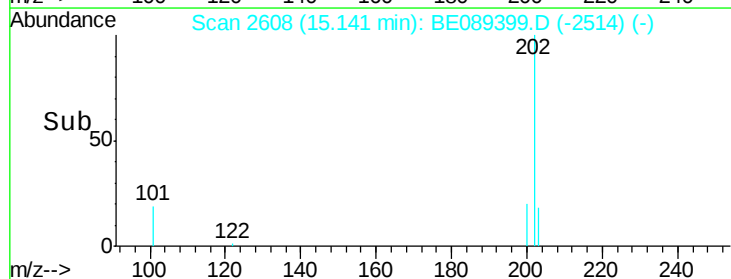
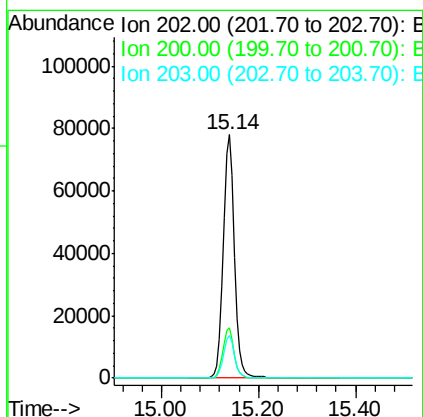
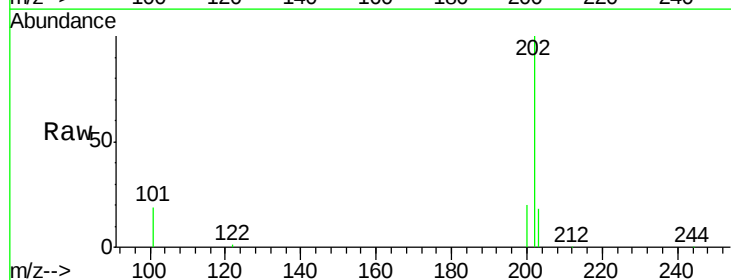
Instrument :
BNA_M
LabSampleId :
SSTDIC010

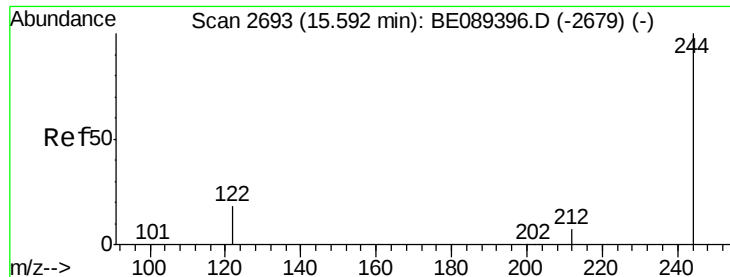
Tgt Ion: 240 Resp: 38238
Ion Ratio Lower Upper
240 100
120 19.5 14.2 21.2
236 25.8 20.6 30.8



#18
Pyrene
Concen: 10.04 ng
RT: 15.14 min Scan# 2608
Delta R.T. -0.00 min
Lab File: BE089399.D
Acq: 15 Jan 2015 18:32

Tgt Ion: 202 Resp: 125091
Ion Ratio Lower Upper
202 100
200 20.5 16.2 24.2
203 17.4 13.7 20.5





#19

Terphenyl-d14

Concen: 10.04 ng

RT: 15.59 min Scan# 2692

Delta R.T. -0.01 min

Lab File: BE089399.D

Acq: 15 Jan 2015 18:32

Instrument :

BNA_M

LabSampleId :

SSTDIC010

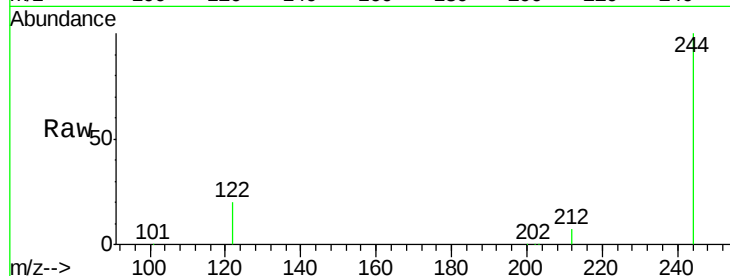
Tgt Ion:244 Resp: 64881

Ion Ratio Lower Upper

244 100

212 7.0 6.7 10.1

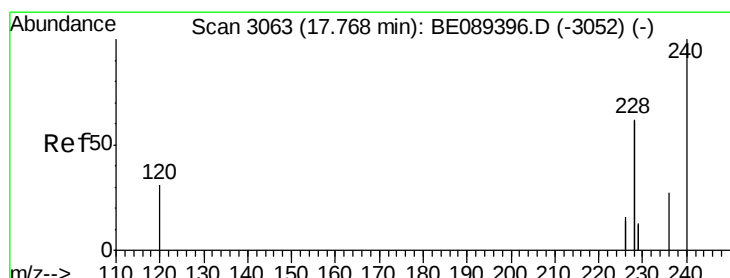
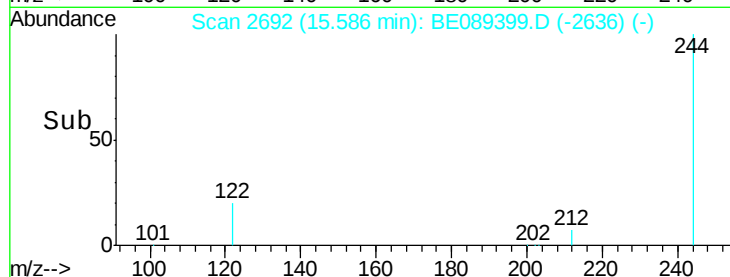
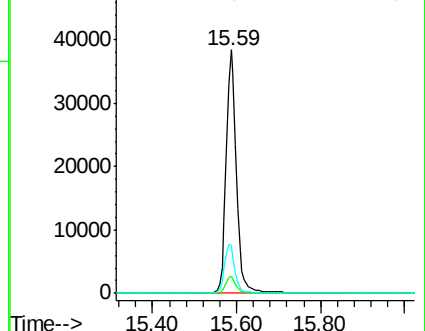
122 19.9 15.7 23.5



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: 10.53 ng

RT: 17.76 min Scan# 3062

Delta R.T. -0.01 min

Lab File: BE089399.D

Acq: 15 Jan 2015 18:32

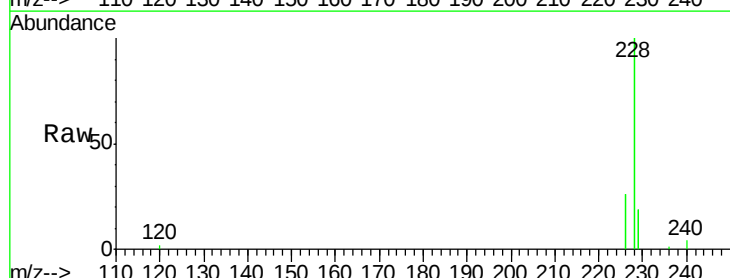
Tgt Ion:228 Resp: 357341

Ion Ratio Lower Upper

228 100

226 26.1 20.6 31.0

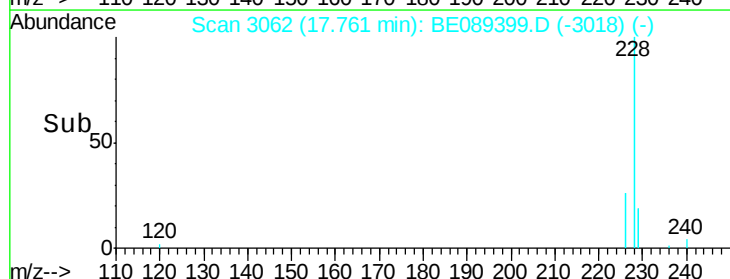
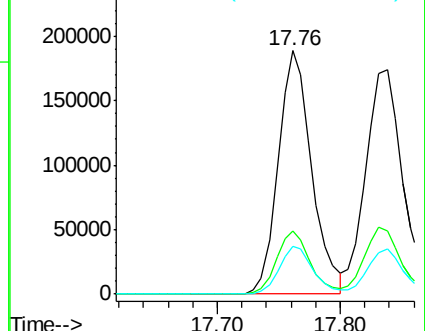
229 19.4 17.1 25.7

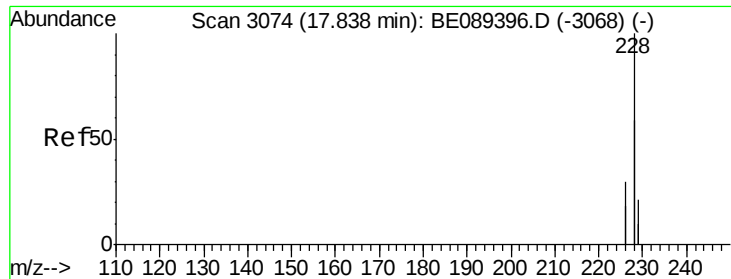


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#21

Chrysene

Concen: 10.01 ng

RT: 17.84 min Scan# 3074

Delta R.T. -0.00 min

Lab File: BE089399.D

Acq: 15 Jan 2015 18:32

Instrument :

BNA_M

LabSampleId :

SSTDIC010

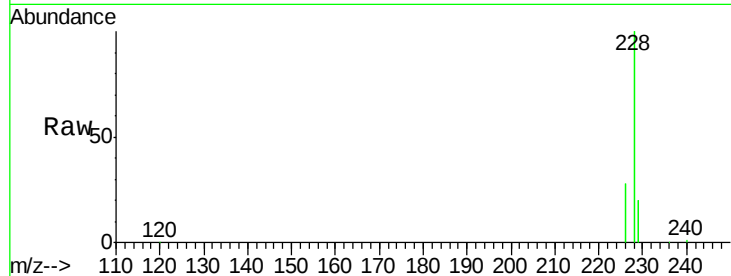
Tgt Ion:228 Resp: 389057

Ion Ratio Lower Upper

228 100

226 28.3 24.2 36.4

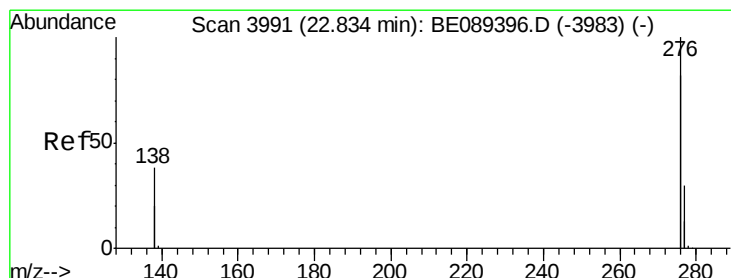
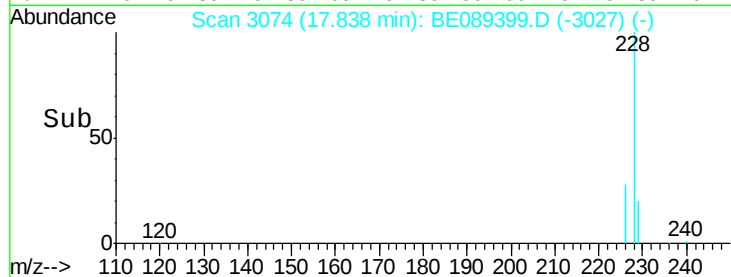
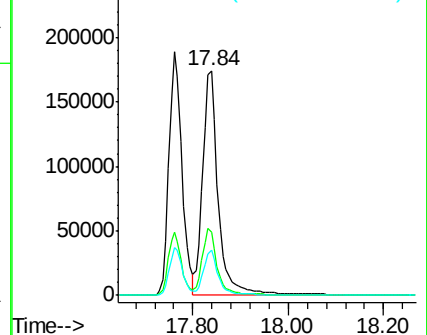
229 20.0 16.5 24.7



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: 7.94 ng

RT: 22.82 min Scan# 3989

Delta R.T. -0.01 min

Lab File: BE089399.D

Acq: 15 Jan 2015 18:32

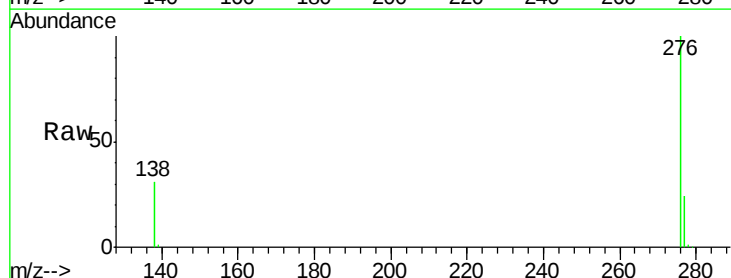
Tgt Ion:276 Resp: 184342

Ion Ratio Lower Upper

276 100

138 30.2 15.0 22.6#

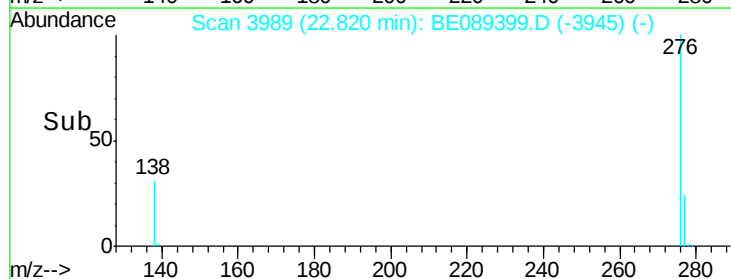
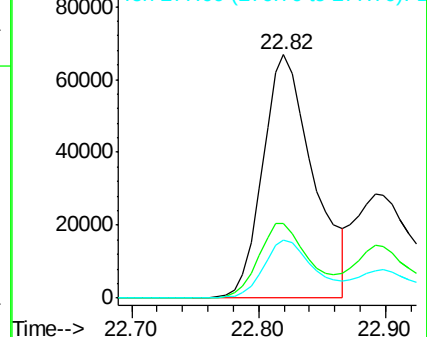
277 23.6 11.4 17.2#

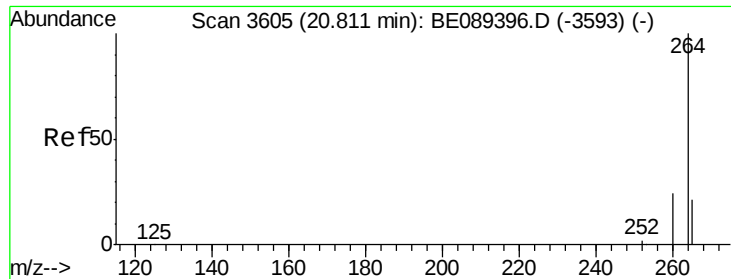


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



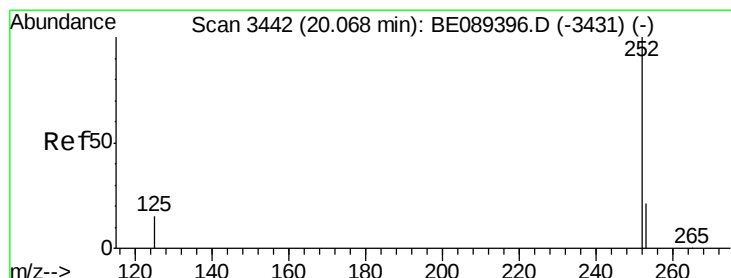
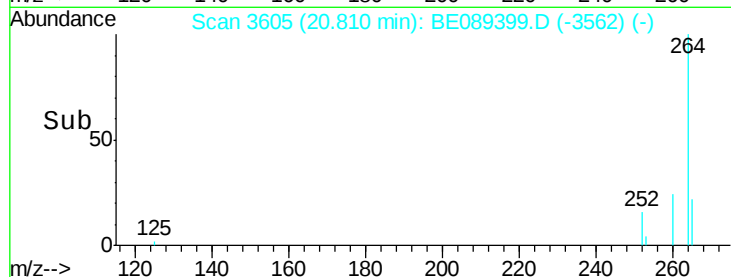
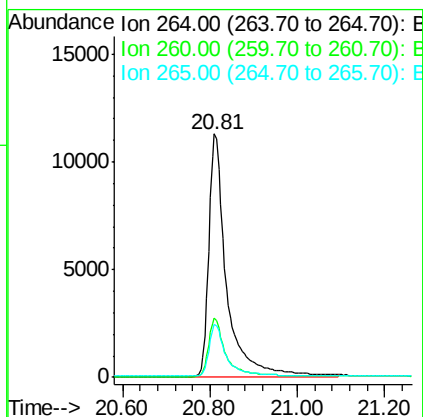
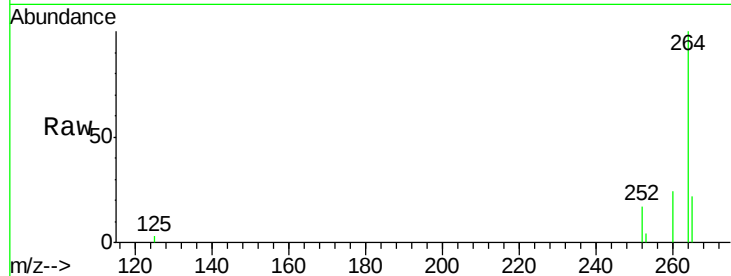


#23
Perylene-d12
Concen: 5.00 ng
RT: 20.81 min Scan# 3605
Delta R.T. -0.00 min
Lab File: BE089399.D
Acq: 15 Jan 2015 18:32

Instrument :
BNA_M
LabSampleId :
SSTDIC010

Tgt Ion: 264 Resp: 31668

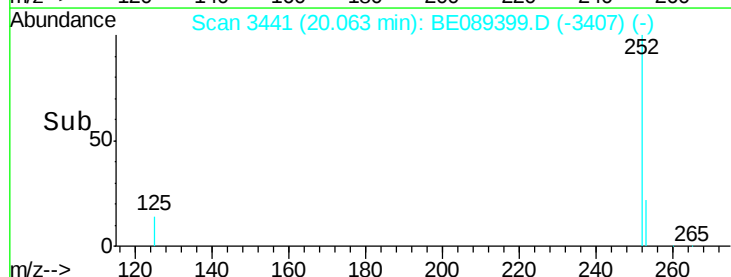
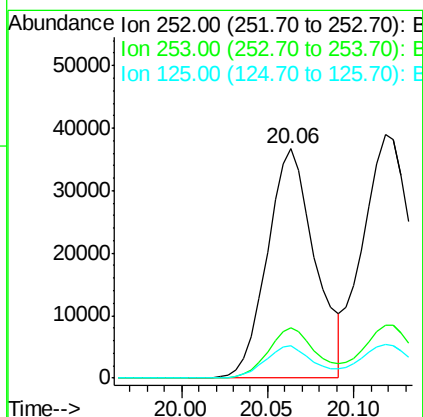
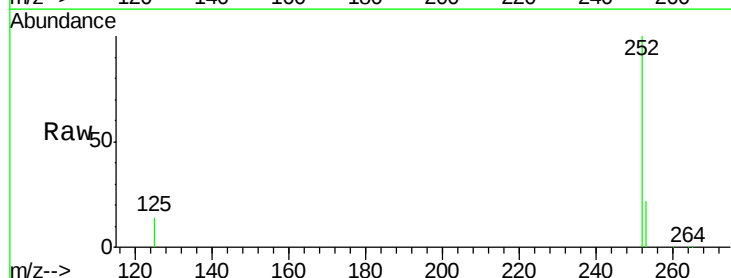
Ion	Ratio	Lower	Upper
264	100		
260	24.2	19.2	28.8
265	21.9	17.3	25.9

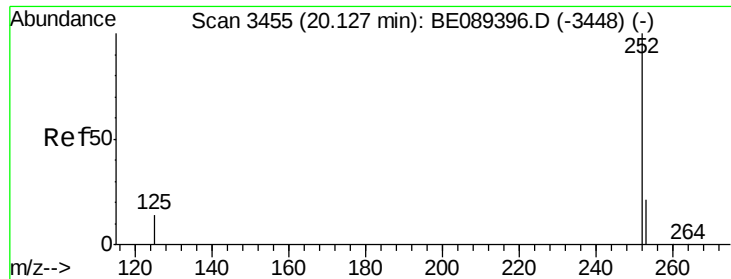


#24
Benzo(b)fluoranthene
Concen: 12.72 ng
RT: 20.06 min Scan# 3441
Delta R.T. -0.00 min
Lab File: BE089399.D
Acq: 15 Jan 2015 18:32

Tgt Ion: 252 Resp: 70498

Ion	Ratio	Lower	Upper
252	100		
253	21.7	19.1	28.7
125	13.9	14.5	21.7#





#25

Benzo(k)fluoranthene

Concen: 11.48 ng

RT: 20.12 min Scan# 3453

Delta R.T. -0.01 min

Lab File: BE089399.D

Acq: 15 Jan 2015 18:32

Instrument :

BNA_M

LabSampleId :

SSTDICC010

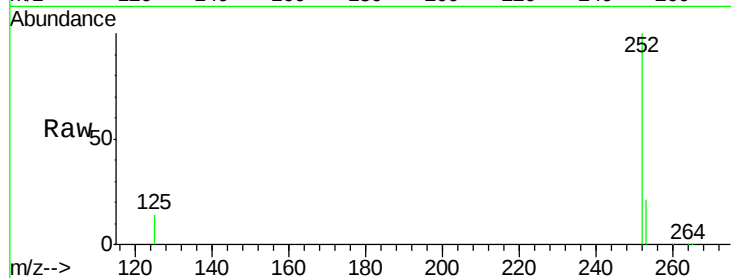
Tgt Ion:252 Resp: 98930

Ion Ratio Lower Upper

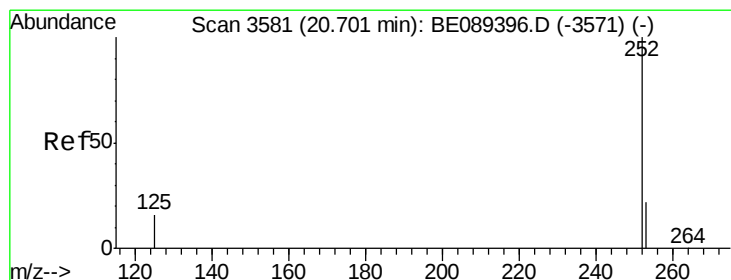
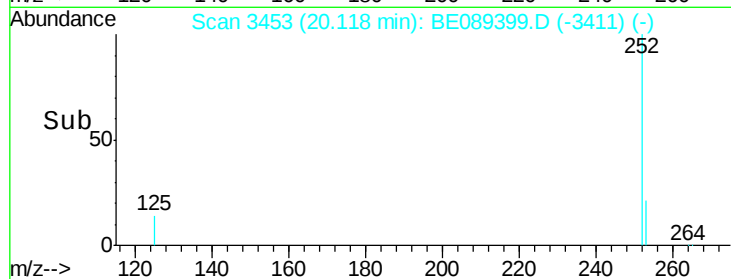
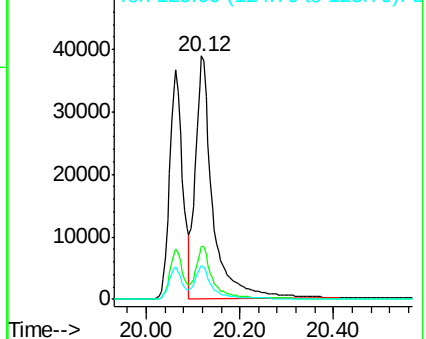
252 100

253 21.5 18.7 28.1

125 14.1 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



#26

Benzo(a)pyrene

Concen: 13.10 ng

RT: 20.70 min Scan# 3580

Delta R.T. -0.00 min

Lab File: BE089399.D

Acq: 15 Jan 2015 18:32

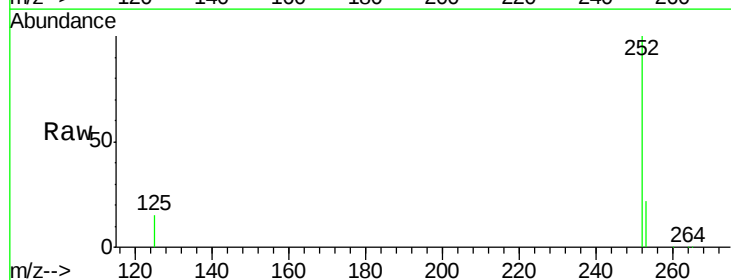
Tgt Ion:252 Resp: 71048

Ion Ratio Lower Upper

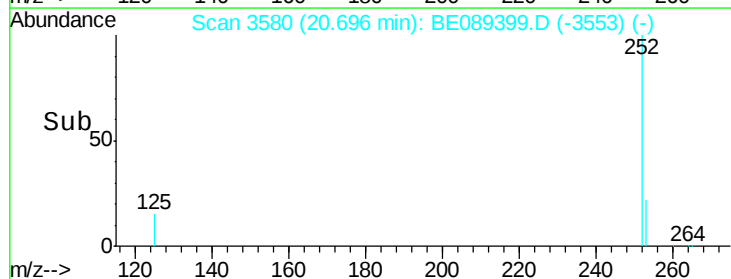
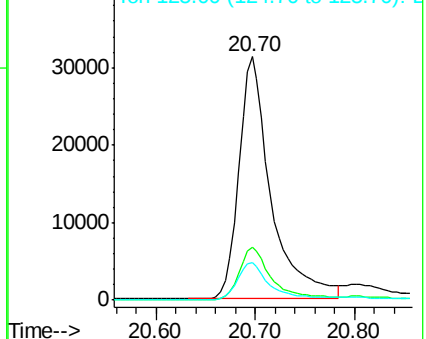
252 100

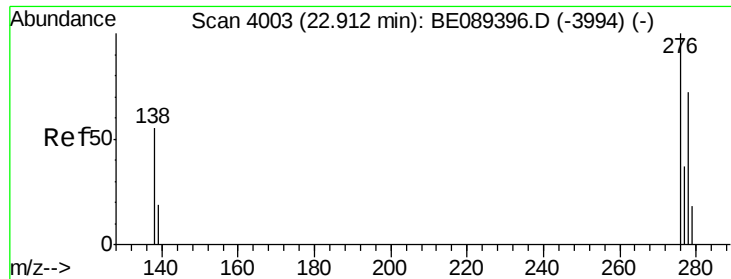
253 21.8 20.0 30.0

125 15.2 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

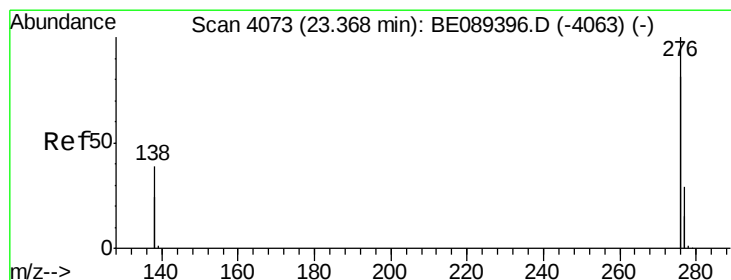
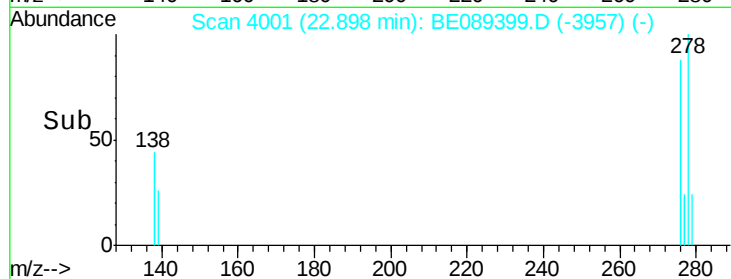
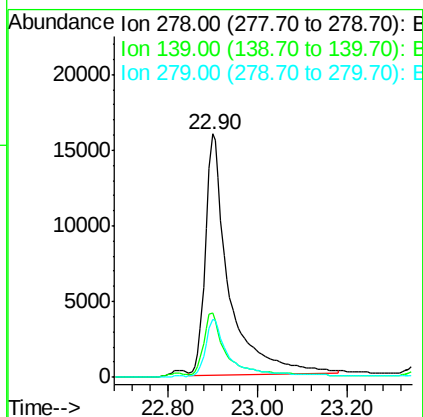
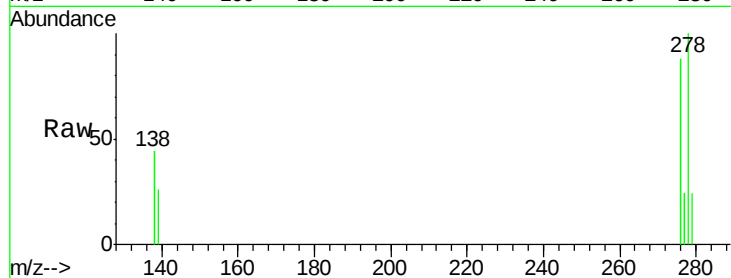




#27
Dibenzo(a,h)anthracene
Concen: 13.44 ng
RT: 22.90 min Scan# 4001
Delta R.T. -0.01 min
Lab File: BE089399.D
Acq: 15 Jan 2015 18:32

Instrument :
BNA_M
LabSampleId :
SSTDIC010

Tgt Ion: 278 Resp: 57920
Ion Ratio Lower Upper
278 100
139 26.3 26.8 40.2#
279 23.8 25.4 38.0#



#28
Benzo(g,h,i)perylene
Concen: 11.86 ng
RT: 23.35 min Scan# 4071
Delta R.T. -0.01 min
Lab File: BE089399.D
Acq: 15 Jan 2015 18:32

Tgt Ion: 276 Resp: 296683
Ion Ratio Lower Upper
276 100
277 23.6 22.9 34.3
138 33.6 31.2 46.8

